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[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*), and of the United States Circuit Courts of Appeals by the letter ([d]).]

ERRATA.

Alphabetical List of Patentees, April 24, 1923, page xxv, second column, line 52, for "1,452,833" read *1,452,953*.
VOL. 309.

Patents Nos. 1,450,163 to 1,450,905.

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Total	1009		

ADJUDICATED PATENTS.

(U. S. D. C. Pa.) Jost patent. 771,018, for improved oil-burning lamp, valid and infringed. *Jost* v. *Borden Stove Co.*, 285 Fed. Rep., 626.

(U. S. C. C. A. Pa.) Patent 1,296,610, claims 12 and 13, for balancing machine, *Held* not infringed. *Akimoff* v. *Dynamic Balancing Mach. Co.*, 285 Fed. Rep., 480.

(U. S. C. C. A. Pa.) Patent 1,296,610, claims 15 and 16, and 1,296,606, claims 21, 22, 23, 26, 29, for balancing machine, *Held* void as unduly broad, indefinite or unverified amendments. *Akimoff* v. *Dynamic Balancing Mach. Co.*, 285 Fed. Rep., 480.

(U. S. D. C. N. Y.) De Simone patent, 1,318,135, for mechanism adapted for controlling a series of registers or indicators, not infringed. *New York Calculating Mach. Co.* v. *International Money Mach. Co.*, 285 Fed. Rep., 635.

ADVERSE DECISIONS IN INTERFERENCE.

Pat. 1,420,551, Working-barrel tube, has been involved in an interference and a decision rendered February 24, 1923, that the patentee is not the first inventor of the subject matter covered by claims 1, 2, and 3 of said patent, and no appeal having been taken such decision has become final.

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Drawings.

RULE 38.

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

RULE 52—EXTRACT.

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refers to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Condition of Applications Under Examination at Close of Business March 23, 1923

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,312; Trade-Mark Division, 4,155. Oldest now case, Feb. 1, 1922; oldest amended, Feb. 23, 1922. The dates given below are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Implements; Trees, Plants, and Flowers.	June 29	June 21	1,113
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco	Apr. 21	Apr. 14	1,663
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Apr. 1	Apr. 12	1,692
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	May 3	Dec. 18	1,426
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 17	June 2	1,296
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	July 31	Nov. 4	1,881
212	7. JARBOE, C. G., Games and Toys; Optics; Photography	June 8	Aug. 25	2,434
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Sept. 20	Dec. 1	1,491
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	May 29	*Feb. 15	939
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	June 29	July 24	1,418
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Aug. 25	Aug. 28	1,002
322	12. PIERCE, P. P., Machine Elements	Sept. 8	Oct. 5	1,499
329	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 7	Dec. 14	1,396
338	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Apr. 20	*Feb. 17	1,166
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	May 12	July 7	2,030
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Mar. 30	Apr. 1	2,549
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Apr. 11	Oct. 16	1,491
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	May 13	Apr. 21	2,066
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 6	Nov. 9	840
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Sept. 7	Sept. 18	1,572
213	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Apr. 14	Sept. 21	1,022
260	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 1	Sept. 15	664
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	Mar. 23	901
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 26	July 18	1,548
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Dec. 22	*Jan. 5	390
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	May 19	July 21	873
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 26	May 17	2,208
225	28. BENSON, A. R., Internal-Combustion Engines	Apr. 18	Aug. 2	1,660
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	May 15	Dec. 18	694
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	June 14	Dec. 1	1,741
172	31. HOLMES, W. F., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 3	May 15	1,683
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	May 27	Aug. 18	1,277
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Rods; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Feb. 21	Mar. 1	1,685
264	34. SIMPSON, G. E., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Sept. 11	Oct. 10	745
82	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Nov. 18	*Jan. 12	1,080
204	36. MORTON, C. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring, etc.	Aug. 30	Aug 8	1,880
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	May 10	May 12	1,790
278	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationary; Stoneworking; Wells.	Apr. 6	May 2	1,947
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 3	Apr. 25	1,594
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	May 16	Aug. 21	2,220
126	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 2	July 20	943
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Apr. 17	Apr. 29	1,868
262	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	June 5	May 25	1,967
263	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	May 15	Sept. 21	1,428
279	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 1	July 13	1,838
322	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	May 16	June 1	1,464
261	47. BARKER, H., Brakes; Clinches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanisms.	June 17	Aug. 9	1,244
118	48. ROEPKE, O. H., Electricity Condensers; Electricity, General Applications	Mar. 15	Feb. 23	2,514
269	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	May 8	June 2	833
102	DESIGNS: C. O. MARKHAM (Acting)	June 8	Nov. 14	2,829
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. (Trade-Marks	Oct. 6	Dec. 30	4,126
	Labels and Prints	*Mar. 16	*Mar. 19	29

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

DROITCOUR *v.* KELLY.

No. 1,533. Decided January 2, 1923.

INTERFERENCE—REDUCTION TO PRACTICE—ABANDONED EXPERIMENT.

Where a machine was built by D. and operated for a time and then scrapped, and for more than a year thereafter he did nothing more relative to this particular invention, but did devise another and different machine upon which a patent was granted, *Held* that the scrapped machine was nothing more than an abandoned experiment, bearing in mind that the machine must operate with accuracy and certainty.

Mr. A. E. Doweell for Droitcour.
Mr. C. S. Grindle and *Mr. Jas. A. Watson* for Kelly.

ROBB, *J.*:

Appeal from a Patent Office decision in an interference proceeding in which priority was awarded the senior party Kelly. The single count of the issue reads as follows:

In a printing press, a cylinder, a feed table, mechanical means for advancing sheets to cylinder picking-up position on said table, said means comprising separately hinged upper and lower sections to permit the sections to have raising movements from operative position and one of said sections carrying the feed board.

As will be understood from this count, the invention is an improvement in an automatic feeder device in a printing press adapted to separate sheets from a supply stack and carry them to a position where they are picked up by the impression cylinder. Owing to the necessity for accuracy in the registration of each sheet, suitable registering mechanism must be associated with the feeder devices. By making the feeder device in two sections, superimposed when in operative position but adapted to be swung upwardly and backwardly, it is possible to gain free access to the mechanism thereunder. This is one of the advantages of the invention.

It is in evidence that early in 1912 a machine was built for Droitcour which, it is contended, embodied this invention. But Kelly insists that this machine had no advancing means made up of two sections, within the meaning of the claim, and hence did not respond to the issue. The view we take of the case, however, renders it unnecessary to determine this question. The machine was operated for a time and then scrapped, and for more than a year thereafter Droitcour did nothing more relative to this particular invention. He did devise another and different machine, however, upon which he applied for a patent on January 8, 1912. This patent was later allowed. Meanwhile Kelly had entered the field and, on September 20, 1913, a machine embodying the invention was publicly exhibited.

Having in mind the degree of accuracy with which such a machine must operate, and the circumstances surrounding this case, we are convinced that the Droitcour machine of 1912 did not amount to a reduction to practice of this invention but, on the contrary, was nothing more than an abandoned experiment. This is another case where actions speak louder than words, and it is inconceivable that this machine, had it been successful, would have been scrapped, another machine devised and a patent application filed thereon, without any claim being made covering the claimed novel features of the earlier device. Upon this point the Examiner of Interferences said:

Droitcour when asked in question 25, page 43, if his 1912 structure operated satisfactorily, failed to assert that it so operated. Malvig (Q. 20, p. 33) states that the sheets did not come through straight. Lane testified (Q. 30, p. 25) that it was necessary to rig up a cable with a weight to lift the upper movable section. Considering the accuracy and certainty required in feeding sheets to a printing press and the necessity of easy and quick manipulation of parts thereof, such testimony clearly indicates an unsuccessful device. Later it seems the feeder was taken off the press and the latter sold without the feeder. All the above witnesses agree that the feeder was destroyed or scrapped. * * * The company never built any others like it, nor does the record show that Droitcour later desired or attempted to build a similar device.

The Examiners in Chief, while convinced that—

the construction of the 1912 machine was not a desirable one from a commercial point of view,

nevertheless ruled that this machine amounted to a reduction to practice. These tribunals, however, in our view, failed to give sufficient weight to what followed the alleged successful operation of the machine. The Board conceded that if its ruling—

of an actual reduction to practice by Droitcour in 1912 were not sustained, he would fail through lack of diligence and Kelly would be held to be the first inventor.

The Assistant Commissioner concurred in this view but placed his decision upon the ground that the 1912 machine did not respond to the issue.

We deem it unnecessary to review the evidence further, and affirm the decision upon the ground that the early efforts of Droitcour were abortive and that he was lacking in diligence when Kelly entered the field.

Affirmed.

Court of Appeals of the District of Columbia.

LEWIS *v.* STROM.

No. 1,513. Decided January 2, 1923.

1. INTERFERENCE—ORIGINALITY OF INVENTION—EMPLOYER AND EMPLOYEE.

Where the proof fails to show that an employer conceived the general principle or the plan of an invention, or, if he did, that he communicated it to the employee, he is not entitled to the benefit of the other's invention, although the first machine embodying the invention was built by the employee in the employer's factory and material in the factory was used.

Mr. Theo. K. Bryant, *Mr. Wm. E. Warland*, and *Mr. Fred H. Bowersox* for Lewis.
Mr. Eric O. Strom pro se.

SMYTH, *C. J.*:

An interference was declared between the respective applications of Lewis and Strom. It concerns a machine for individually wrapping articles, such as cigars, in tissue paper. There are eleven counts in the interference, which are sufficiently illustrated, so far as our purpose is concerned, by count 1. It reads as follows:

A device for individually wrapping articles, comprising a combination, a pair of supporting rolls, a coacting presser roll thereabove, a belt running with constant tension and contact over all of said rolls, a driving roll for imparting continuous motion to said belt, and means for yieldably suspending said presser roll so as to enable it to recede from said supporting rolls by the insertion therebetween of an article with its wrapper and the retraction of the wrapped article therefrom.

The question involved is one of originality and depends for its solution on matters of fact. The burden of proof is on Lewis, he being the junior party. Each of the three tribunals of the Office held that he had failed to sustain it, and they decided in favor of Strom.

Lewis, at the time of the invention, was a cigar manufacturer. It is conceded in his brief that he was not a skilled mechanic or a machinist in any sense of the words, although it is claimed for him that his forty odd years of experience as a cigar manufacturer had familiarized him, to a greater or lesser extent, with the machines used in his business.

Strom was an employee of Lewis's, having entered his service as a simple mechanic. After some time, on account of his fitness, he was advanced to the position of foreman over other mechanics who had been longer in Lewis's employ. He had attended a vocational school, knew drafting and the designing of machines and machine parts. Shortly after the structure in question was invented, he invented a stogie-washing machine, and some four years later a dust collector. This tends to show that he possessed in some degree the inventive faculty.

Lewis does not claim to have imparted to Strom directly the concept of the invention, but says that he disclosed it to his superintendent, Pearson, who in turn communicated it to Strom. The only conversation relative to it which he says he had with Strom before the invention was perfected concerned the shifting of a roller, and as to this he is not corroborated. Pearson testified that he and Lewis commenced to talk about the invention in September, 1913, and fixes the time by reason of the fact that he attended a machinists' convention in the same month of that year. Before that he had not heard of such a machine. When asked to state what Strom had to do with the machine, he said, in substance, that it was his duty to carry out his, Pearson's, instructions; that he told him to use certain material in the factory for side plates, and that he explained "on that piece of paper how" he wanted it made. But the paper was not identified by him. He claims to have made certain suggestions of his own which tend to indicate a belief on his part that he, as well as Lewis, contributed to the result. To a slight extent his testimony is corroborated by employees of Lewis. They say that Pearson and Strom worked together over drawings which they believed related to the machine. Suppose they did, it would not establish that Lewis, either directly or through Pearson, disclosed to Strom the specific means which he was to employ in working out the invention.

On the other hand, Strom testified that Pearson stated to him in September, 1913, at the supper table in Strom's house, where Pearson was a boarder, and while Strom's family was present, that Lewis wanted a machine made for wrapping cigars in tissue paper; that he gave him no particulars whatever; that he said their present method of wrapping cigars was slow and tedious; that the operators wore out their finger tips in twisting the loose ends of the wrapper between their fingers, and he asked—

> if I (Strom) could make a machine to do the thing they wanted, and I told him that I could make a machine but that I had to have the time to study it up and see what I could do in that respect. * * * He told me to go ahead and see what I could do.

This testimony of Strom's is corroborated in part by one witness and wholly by two witnesses, one of whom was entirely disinterested. She was at the time of the conversation a high-school student, and when giving her testimony was employed as a bookkeeper. She was candid, intelligent, and positive. We can not refuse her testimony credence. The story she related is entirely inconsistent with Lewis's theory, namely, that he, through Pearson, conveyed the inventive concept to Strom. Pearson does not deny the conversation related by her. True, he says that he gave his first instructions to Strom in the machine shop. In so far as this is inconsistent with her statement, it may be regarded as a denial, but we do not think that as such it is entitled to much weight. He does not say what the instructions were. They may have been in complete harmony with what he said to Strom at the supper table.

Following Pearson's direction to him to go ahead, Strom says he developed the invention at his home in his spare time, made sketches of it, showed them to Pearson, and discussed them with him. The first machine embodying the invention was built by him in the Lewis factory, work having been commenced on it about two months after Pearson's request to undertake the work. In the meantime, as we have just stated, he was studying the problem.

Strom's fourth witness gave testimony touching his work on the machine which tends to support his right. When Strom asserted to Lewis that the invention was his, Lewis testified that he was surprised, but did not deny Strom's claim. A board containing a layout was submitted in evidence. Strom says that the layout was his, and Lewis does not deny it.

We do not doubt that Lewis and Pearson discussed the necessity of a machine which would do what was then being done by hand in the wrapping of cigars, but we do not believe that Lewis had any definite notion as to how such a machine should be organized.

Counsel for Lewis cite cases to the effect that where one employs another to perfect the details of an invention of which he has conceived the general principle or plan, he is entitled to the benefit of the other's work. We do not deny the principle, but it is not applicable. The proof here fails to show that Lewis, the employer, had conceived the general principle or the plan, or, if he did, that he communicated it to Strom.

The invention is Strom's and he is entitled to it. Consequently, the decision of the commissioner is affirmed.

Affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

813,120, J. B. Tate, Stay bolt; 844,421, B. E. D. Stafford, Flexible stay bolt; 984,863, same, Flexible stay bolt for boilers, suit filed Jan. 22, 1923, U. S. D. C., W. D. Pa., Doc. 866, *Flannery Bolt Co.* v. *American Locomotive Co. and others.*

844,421. (See 813,120.)

968,478, W. E. Davey, Process of reinforcing trees, suit filed Jan. 31, 1923, U. S. D. C., S. D. Ohio, Doc. 297, *The Davey Tree Expert Co.* v. *Grant & Starling.*

984,863. (See 813,120.)

1,031,468, N. Power, Perforating machines, suit filed Jan. 13, 1923, U. S. D. C., N. D. Ill., Doc. 3254, *Nicholas Power Co., Inc.*, v. *Bell & Howell Co.*

1,063,142, R. P. Wright, Machines for forming screw-thread-cutting devices, suit filed Jan. 16, 1923, U. S. D. C., N. D. Ill., Doc. 3285, *Nye Tool & Machine Works* v. *Crown Die & Tool Co.*

1,127,660, J. H. McMichael, Method of and apparatus for transporting and treating concrete, suit filed Jan. 29, 1923, U. S. D. C., N. D. Ill., Doc. 3317, *Concrete Mixing and Conveying Co.* v. *Ulen Contracting Corp.*

1,130,708, S. C. Coey, Skelp-charging apparatus, suit filed Sept. 17, 1917, U. S. D. C., N. D. Ohio (E. D.), Doc. 434, *Youngstown Sheet & Tube Co.* v. *The Republic Iron & Steel Co.* Dismissed for want of equity.

1,172,087, H. P. Westcott, Gas-volume-measuring apparatus, suit filed Oct. 28, 1922, U. S. D. C., W. D. Pa., Doc. 8167, *H. P. Westcott* v. *The Foxboro Co., Inc.*

1,180,030, T. L. Green, Biscuit-cutting machines, suit filed June 6, 1919, U. S. D. C., S. D. Ohio, Doc. 174, *T. L. Green and others* v. *The J. H. Day Co.* Consent decree for plaintiffs entered Feb. 1, 1923.

1,180,495, F. A. Headson, Gear; 1,264,924, same, Brake bands, brake shoes, and linings therefor, suit filed Feb. 1, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 821, *Johns-Manville, Inc.*, v. *Gillett Asbestos Co.*

1,186,477, W. M. Grosvenor, Process for drying or hardening coatings, suit filed Jan. 8, 1923, U. S. D. C., N. D. Ill., Doc. 3251, *Wenborne-Karpen Dryer Co.* v. *The Clemetsen Co.*

1,251,497, J. M. G. Fullman, Outlet boxes, suit filed Nov. 17, 1922, U. S. D. C., W. D. Pa., Doc. 829, *J. M. G. Fullman* v. *Steel City Electric Co.*

1,264,924. (See 1,180,495.)

1,337,078, A. W. Kirchner, Running-board and fender support for automobiles, Injunction granted, U. S. D. C., W. D. Ky., Doc. 145, *The Dow Co.* v. *O. W. Dishon (O. W. Dishon Co.)*

1,346,718, M. Muller, Hair fringe, suit filed Jan. 19, 1923, U. S. D. C., N. D. Ill., Doc. 3290, *National Hair Goods Co.* v. *Western Hair Goods Co.*

1,351,218, 1,402,657, O. C. Ritz-Woller, Windshield cleaners for automobiles, suit filed Jan. 6, 1923, U. S. D. C., N. D. Ill., Doc. 3225, *O. C. Ritz-Woller and others* v. *Empire Motor Supply Co.*

1,357,752, Weber & Richardson, Wire stitchers, suit filed Jan. 5, 1923, U. S. D. C., N. D. Ill., Doc. 3224, *Latham Machinery Co.* v. *The Chicago Mill & Lumber Co. et al.*

1,391,939, C. W. Collins, Ventilating appliances for clothes-drying machines, suit filed Jan. 31, 1923, U. S. D. C., W. D. Wash., Doc. E 322, *C. W. Collins* v. *Troy Laundry Machinery Co., Ltd., and others.*

1,396,234, E. W. Reiber, Spotlight construction, suit filed Jan. 12, 1923, U. S. D. C., N. D. Ohio (W. D.), Doc. E 358, *Reiber-Kolz Co.* v. *Thal & Bitter Machine Co.*

1,402,657. (See 1,351,218.)

1,411,391. (See 1,422,637.)

1,411,543, H. E. White, Expanding machine; 1,417,706, same, Metal-expanding machine, suit filed Dec. 30, 1922, U. S. D. C., N. D. Ohio (E. D.), Doc. 811, *General Fireproofing Co.* v. *Truscan Steel Co.*

17.—**BUTCHERING.**
1. **Miscellaneous.**
2. **Fish—**
3. Dressers—
4. Cutters,
5. Scaling machines,
6. Washers,
7. Tools,
8. Clamps,
9. **Oyster openers—**
10. Tools.
11. **Fowl—**
12. Beheaders.
13. **Hog scalders and scrapers—**
14. Suspended hog.
15. **Hog scalders.**

17.—**BUTCHERING**—Continued.
16. **Hog scrapers—**
17. Suspended hog,
18. Rotary scraper structure,
19. Tools.
20. **Hog stungers.**
21. **Skinners—**
22. Power-operated knives.
23. **Carcass splitters.**
24. **Elevators and conveyers.**
25. **Meat tenderers—**
26. Coacting rolls—
27. Roll and plate,
28. Coacting toothed plates,
29. Hand roll,
30. Hand pounders—
31. With chopper.

17.—**BUTCHERING**—Continued.
32. **Meat briquetters.**
33. **Sausage stuffers and linkers.**
34. **Sausage linkers.**
35. **Sausage stuffers—**
36. Oscillating piston,
37. Rotary piston,
38. Reciprocating piston—
39. Fluid motor,
40. Screw,
41. Nozzles—
42. Inserters for.
43. **Intestine cleaners.**
44. **Supports and shackles.**
45. **Processes.**

1,412,588, Woodliff, jr., & May, Globe retainers, suit filed Jan. 25, 1923, U. S. D. C., N. D. Ill., Doc. 3316, *Woodliff, jr., & May* v. *The Chicago Pressed Steel Co. et al.*

1,417,706. (See 1,411,543.)

1,422,637, J. D. Tucker, Spoke-tightening shim; 1,411,391, same, Spoke tightener, suit filed July 31, 1922, U. S. D. C., D. Oreg., Doc. E. 8612, *Tucker Bros. Mfg. Co.* v. *I. Reeder.* Claims held valid.

1,427,938, A. J. Bentley, Freezing cans, suit filed Jan. 12, 1923, U. S. D. C., W. D. Pa., Doc. 861, *A. J. Bentley* v. *P. Wall Mfg. Supply Co., Inc.*

T. M. 62,016. (See T. M. 62,821.)

T. M. 62,124. (See T. M. 62,821.)

T. M. 62,516. (See T. M. 62,821.)

T. M. 62,821, T. M. 75,976, T. M. 62,516, Vacuum Oil Co., For certain oils, greases, and waxes; T. M. 62,124, same, For oils, greases, and waxes for the preservation of leather; T. M. 62,016, same, For salad oil, suit filed Dec. 27, 1922, U. S. D. C., M. D. Pa., Doc. 349, *Vacuum Oil Co.* v. *American Auto Accessories Stores, Inc., and others.*

T. M. 75,976. (See T. M. 62,821.)

Changes in Classification.

(ORDER NO. 2,805.)

U. S. PATENT OFFICE, *Washington, Mar. 17, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 131, Tobacco (Division II), abolish subclasses:

Tobacco cutters—
33. Pivoted knife,
34. Reciprocating knife,
35. Rotating knife.

The patents formerly contained in these subclasses have been placed for the most part in class 146, Vegetable and Meat Cutters and Comminutors, hereinafter established.

In class 17, Butchering (Division XXV), abolish subclasses:

9. **Chopping blocks.**
14. **Meat clamps.**
Meat cutters—
16. Cracklings,
17. Crank mechanism,
18. Cube,
19. Cylinder and block,
20. Cylinder and concave,
21. Double cylinder,
22. Hand,
23. Rocking knife,
24. Slicers,
25. Trip mechanism.

The patents formerly contained in these subclasses have been placed for the most part in class 146, Vegetable and Meat Cutters and Comminutors, hereinafter established.

In class 17, Butchering (Division XXV), abolish the remaining subclasses and establish in lieu thereof the following subclasses and definitions:

In class 146, Vegetable Cutters and Crushers (Division XXV), change the title of the class to read *146, Vegetable and Meat Cutters and Comminutors*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

146.—VEGETABLE AND MEAT CUTTERS AND COMMINUTORS.
1. **Miscellaneous.**
2. **Egg cutters and separators.**
3. **Citrus fruit.**
4. **Green-corn shellers.**
5. **Banana.**
6. **Pineapple.**
7. **Coconut.**
- **Nutcrackers—**
8. Power operated—
9. Centrifugal impact,
10. Cutters,
11. Rotary crusher,
12. Reciprocating jaw,
13. Hand operated—
14. With receptacle,
15. Reciprocating hammer,
16. Reciprocating jaw.
17. **Seeders and stoners—**
18. Cherry—
19. Punch,
20. Rotary disk,
21. Hand tool.
22. Raisin—
23. Coacting roll or belt,
24. Punch,
25. Squeezer,
26. Hand tool,
27. Olive punch,
28. Peach—
29. Tray spreader,
30. Stationary knife,
31. Hand tool.
32. **Nut skinners or blanchers.**
33. **Parer, corer, and segmenter—**
34. With doffer.
35. **Parer, corer, and slicer—**
36. With doffer.
37. **Parer and slicer.**
38. **Parer and corer—**
39. With doffer.
40. **Corer and segmenter—**
41. Hand tool.
42. **Corer and slicer.**
43. **Peeler or parer—**
44. Peach,
45. With doffer,
46. Conveying roaster,
47. Conveying washer or scalder—
48. Vacuum skinner,
49. Abrader—
50. Washer,
51. Feeders.
52. **Corer—**
53. Hand tool.
54. **Berry huller, hand.**
55. **Fruit stemmer.**
56. **Fruit pricker.**
- **Potato-planter type—**
57. Rotary cutter,
58. Reciprocating cutter,
59. Stationary cutter.
- **Dispenser—**
60. Stationary cutter or comminutor,
61. Rotary cutter or comminutor,
62. Reciprocating cutter or comminutor,
63. Pivoted cutter or comminutor.
64. **Tub or block—**
65. Trip-action cutter,
66. Rocking cutter,
- Rotary cutter—
67. Horizontal axis,
68. Vertical axis,
69. Vertical reciprocating cutter.
70. **Haystack.**
71. **Coracob splitter.**
72. **Halving cutter—**
73. Rotary knife.
74. **Rotary cutter or comminutor and sheller—**
75. Ear separator or husker.
76. **Disintegrator and separator.**
77. **Combined knife and saw.**
78. **Cutters in series.**
79. **Cutter and comminutor in series.**
80. **Rotary cutter and grater.**
81. **End cutters—**
82. Bunching,
83. Onion,
84. Ear corn,
85. Beet,
86. Bean pod,
87. **Endless cutter—**
88. Band.
- **Rotary hollow drum cutter or comminutor—**
89. Horizontal axis—
90. Internal feed,
91. Hopper—
92. Follower feed,
93. Vertical axis.
- **Rotary knife—**
94. Slice arranger,
95. Horizontal axis—
96. Spaced knives,
97. Screw penetrator, hand.
- **Rotary disk cutter—**
- Transverse axis—
98. Spaced cutters,
99. Plural, angled axes,
- Longitudinal axis—
100. Rind remover,
101. Rotary cutter carrier,
102. Reciprocating carriage,
103. Swinging cutter carrier,
104. Reciprocating cutter carrier,
105. Vertical axis.
106. **Rotary cutter or comminutor—**
107. Fan conveyer,
- Longitudinal axis—
108. Belt and roller feed,
109. Belt feed,
110. Rake feed,
111. Roller feed,
112. Follower feed,
113. Hopper—
114. Follower feed,
115. Without feed,
- Transverse axis—
116. Belt and roller feed,
117. Belt feed,
118. Roller feed,
119. Without feed,
- Hopper—
120. Plural rotary comminutors,
121. Single rotary comminutor,
- Vertical axis—
122. Follower feed,
123. Cone comminutor,
124. Diagonal axis,
125. Hand supported.
126. **Cutters—**
127. Rind removers,
- Compound movement—
128. Belt and roller feed,
129. Belt feed,
130. Rake feed,
131. Roller feed,
132. Bed feed,
133. Follower feed,
- Without feed—
134. Plural spaced knives.
135. **Swinging cutter, single pivot—**
136. Transverse pivot,
137. Rake feed,
138. Roller feed,
139. Bed feed,
140. Follower feed,
- Without feed—
141. Plural spaced knives.
- **Transversely-reciprocating cutter in vertical plane—**
142. Diagonal cutter,
143. Without feed—
144. Knife guides.
145. **Transversely-reciprocating cutter in horizontal plane.**
146. **Inclined reciprocating cutter.**
- **Vertical reciprocating cutter—**
147. Spaced blades,
154. Belt and roller feed,
155. Belt feed,
156. Rake feed,
157. Roller feed,
158. Follower feed,
159. Without feed—
160. Plural cutter.
- **Diagonal reciprocating cutter—**
161. Without feed.
162. **Stationary cutter—**
163. Endless plunger;
- Rotary plunger—
164. Horizontal axis,
165. Vertical axis,
- Rotary holder—
166. Horizontal axis,
167. Vertical axis,
168. Reciprocating carrier,
169. Reciprocating or swinging plunger,
170. Without feed—
171. Slicer.
- **Strainer—**
172. Agitating plunger—
173. Oscillating on horizontal axis,
174. Rotating on horizontal axis,
175. Rotating on vertical axis,
176. Reciprocating or swinging.
177. **Graters—**
178. Reciprocating comminutor,
- Stationary—
179. Reciprocating holder,
180. Without operating mechanism.
- **Rotary grinder or comminutor—**
181. Separately-movable comminutor and feed,
182. Horizontal axis—
183. Twin comminutors,
184. Coacting comminutor and casing projections,
- Screw—
185. Perforated discharge cone,
186. Perforated discharge disk—
187. Rotary cutters in series,
188. Rotary cutter outside,
189. Rotary cutter inside,
190. Annular discharge—
191. Rotary cutter outside,
192. Vertical axis.
193. **Cleaner and assorter.**
194. **Conveying washer or scalder.**
- **Washer or scalder—**
- Tanks in series—
195. Dipper,
- Tank—
196. Dipper,
197. Agitator.
198. **Egg washer.**
- **Washer—**
199. Conveying brush,
- Tank—
200. Brush.
201. **Conveying brush.**
202. **Hand tools—**
203. Compound,
204. Gougers,
205. Cutters—
206. Power operated,
207. Circular or spiral,
208. Radiating blade,
209. Parallel blade,
210. Rotary disk,
211. Cleavers,
212. Mashers.
213. Work tables.
214. **Cutting blocks and boards.**
215. **Clamps—**
216. For slicing machines,
217. Stationary.
218. **Processes.**
219.

THOMAS E. ROBERTSON, *Commissioner.*

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 3, 1923.

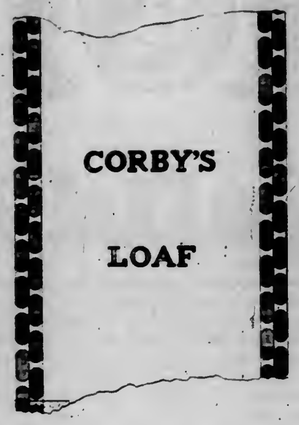
[VOL. 309. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 94,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORBY BAKING COMPANY, Washington, D. C. Filed Apr. 19, 1916.



No claim is made to the words "Corby's Loaf" or to the characters "10¢" apart from the mark shown in the drawing and above described. The lining shown in the drawing represents the colors red and blue.

Particular description of goods.—Bread.

Claims use since Mar. 31, 1916.

Ser. No. 132,052. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL KIRK & SONS, LIMITED, Bradford, England. Filed May. 5, 1920.



Particular description of goods.—Piece Goods Composed of an Admixture of Wool and Cotton.

Claims use since July 12, 1922.

Ser. No. 134,969. (CLASS 32. FURNITURE AND UPHOLSTERY.) WILLIAM LAWRENCE & CO., LIMITED, Colwick, England. Filed July 14, 1920.

Particular description of goods.—Furniture and Upholstery—Namely, Bedsteads, Bedroom Suites, Cabinets, Hall Stands, Settees, Overstuffed Furniture, Chesterfield Settees, Easy Chairs, Bookcases, Household Chairs, Music Stools, Painted and Enameled Household Furniture, Sideboards, Household Tables.

Claims use since Nov. 5, 1919.

Ser. No. 139,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SUN DRUG COMPANY, Los Angeles, Calif. Filed Nov. 13, 1920.



Particular description of goods.—Olive Oil, Caraway Seed, Celery Seed, Cocoa Butter, Curry Powder, Cuttlefish Bone, Vanilla Extract for Food Products, Mustard Powder, Rice Flour, and Rock Candy.

Claims use since Oct. 21, 1901.

Ser. No. 140,917. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) COLEMAN AND COMPANY, LIMITED, Norwich, England. Filed Dec. 11, 1920.

WINCARNIS

Particular description of goods.—A Liquor or Liquid Preparation Containing Malt.
Claims use since Feb. 15, 1890.

Ser. No. 141,348. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JUAN BAUTISTA BLANCAFORT S. EN C., La Garriga, Spain. Filed Dec. 21, 1920.

VICTORIA

Particular description of goods.—Perforated Music Rolls for Automatic Pianos.
Claims use since October, 1912.

Ser. No. 142,775. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COLBY STEEL AND ENGINEERING CO., Seattle, Wash. Filed Jan. 26, 1921.

MODERN-METHOD

Particular description of goods.—Industrial Trucks and Trailers of the Class Used Around Warehouses, Etc., and Are Adapted for Being Drawn by Hand or Behind Small Industrial Tractors.
Claims use since Nov. 20, 1920.

Ser. No. 145,597. (CLASS 37. PAPER AND STATIONERY.) SUPREME ORIENT O. O. H. & P., Schenectady, N. Y. Filed Apr. 1, 1921.



Particular description of goods.—Letterheads, Envelopes, Report Blanks, Billheads, Receipt Books.
Claims use since about September, 1907.

Ser. No. 145,864. (CLASS 31. FILTERS AND REFRIGERATORS.) WINTER MACHINE COMPANY, Pawtucket, R. I. Filed Apr. 7, 1921.

CHILRITE

Particular description of goods.—Refrigerating and Ice-Making Apparatus.
Claims use since June 20, 1920.

Ser. No. 145,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BEREA MILLING CO., Berea, Ohio. Filed Apr. 9, 1921.



No claim is made to the words "Pastry Flour" apart from the mark shown.
Particular description of goods.—Milling Products—To Wit, Wheat Flour, Pastry Flour, Graham Flour, and Corn Meal.
Claims use since Feb. 1, 1919.

Ser. No. 146,216. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Apr. 15, 1921.

NUTFIELD

The word "Nutfield."
Particular description of goods.—Butter, Dried Beans, Bread, Buttermilk, Cereal Breakfast Foods, Coffee, Cocoa, Candy, Condensed Milk, Cheese, Cornstarch, Cake, Cookies, Crackers, Cream, Shredded Coconut, Doughnuts, Dried Fruits, French Dressing, Mayonnaise Dressing, Salad Dressing, Dates; Eggs, Fresh and Preserved; Evaporated Milk, Evaporated Cream, Extracts and Essences for Food-Flavoring Purposes, Flavors and Fruit Sirups for Use in Preparing Foods, Canned Fruits, Canned Vegetables, Canned Fish, Wheat Flour, Potato Flour, Prepared Flour, Figs, Gelatin, Ice Cream, Jelly Powders, and Tablets, Jams, Catchup, Lard, Marmalade, Milk, Milk Powder, Modified Milk, Molasses, Mustard, Rye Meal, Corn Meal, Wheat Meal, Margarines, Mincemeat, Nuts, Salad Oil, Cooking Oil, Olive Oil, Corn, Potato Chips, Fruit Preserves, Pickles, Chili Sauce, Horse-Radish, Rice, Spices; Granulated, Powdered, and Cube Sugar; Maple Sugar, Maple Sirup, Honey, Canned Soups, Beef Cubes, Tapioca, Tea, and Vinegar.
Claims use since 1909 on cream, since 1910 on coffee, 1911 on tea, 1912 on cocoa, 1917 on evaporated milk, 1914 on canned vegetables, 1920 on candy, and since Mar. 1, 1921, on the remainder of the products.

Ser. No. 148,973. (CLASS 39. CLOTHING.) THE COLLEGIAN, Minneapolis, Minn. Filed June 11, 1921.

Collegian

Particular description of goods.—Neckties, Cravats, and Scarfs, Hats, and Caps.
Claims use since on or about Dec. 1, 1916.

Ser. No. 150,286. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIPPS AKTIEN-GESELLSCHAFT, Frankfort-on-Main, Germany. Filed July 12, 1921.

Philag

Particular description of goods.—Electrical Lamps—Namely, Suspended Lamps, Table Lamps, Hand Lamps, and Pocket Lamps—Electrical Lamps and Dynamos for Automobiles; Electrical Lamps and Reflectors for Automobiles, Bicycles, and Motor Cycles; Electromotors, Dynamos, Electrical-Light Cables, Switches, Wires, and Small Batteries.
Claims use since July 1, 1919.

Ser. No. 151,358. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed Aug. 4, 1921.

Empire

The trade-mark consists of the word "Empire."
Particular description of goods.—Powdered Milk and a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage Similar to Cocoa.
Claims use by Empire Bakers Specialty Company since August, 1914, and by the applicant in the form shown in the drawing since May 26, 1921.

Ser. No. 151,777. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN BOTTLE CAP CO., Seattle, Wash. Filed Aug. 15, 1921.



No colors are used in the mark. Applicant disclaims any right to the words "The Sanitary Cap;" also disclaims any right to the cross.
Particular description of goods.—Bottle Caps.
Claims use since July 1, 1921.

Ser. No. 152,609. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ENGLERT MANUFACTURING CO., Pittsburgh, Pa. Filed Sept. 6, 1921.

Dragon

Particular description of goods.—Electric Batteries.
Claims use since November, 1920.

Ser. No. 152,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KARLSRUHER PARFUMERIE- & TOILETTESEIFEN-FABRIK F. WOLFF & SOHN, G. m. b. H., Karlsruhe, Germany. Filed Sept. 9, 1921.

PHANTASMA

Particular description of goods.—Perfume, Toilet Water, Toilet Powder, Hair Tonic, Shampoo, Hair Oil, Face Cream, Brilliantine, and Bath Salts.
Claims use since Oct. 25, 1900.

Ser. No. 152,760. (CLASS 39. CLOTHING.) GEO. E. KEITH COMPANY, Brockton, Mass. Filed Sept. 9, 1921.

Princess Pat

Particular description of goods.—Leather Boots and Shoes.
Claims use since about Feb. 20, 1917.

Ser. No. 153,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS M. GOLDMAN, doing business as Louis M. Goldman & Co., Chicago, Ill. Filed Oct. 1, 1921.



Particular description of goods.—Coffees, Teas, and Spices.
Claims use since May 1, 1921.

Ser. No. 154,287. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS A. STABLER, doing business as The Lasco Company, Ltd., Baltimore, Md. Filed Oct. 18, 1921.

LASCO

Particular description of goods.—Oil Paint, Ready-Mixed and Paste; Linseed Oil, Floor Wax, Floor and Furniture Polish, Varnish, Substitute Shellac, Putty, White Lead, Red Lead; Water Paint, Ready-Mixed and Powdered; Aniline Stains, Finishing Enamels, Automobile Polish, Prepared Shellac, and Paint Pigment.
Claims use since Apr 1, 1920.

Ser. No. 154,515. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Oct. 24, 1921.



Particular description of goods.—Cordage—Namely, Manila, Sisal, and Hemp Rope and Twine.
Claims use since Mar. 15, 1920.

Ser. No. 154,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921.

Quick Lunch

Particular description of goods.—Candy.
Claims use since 1893.

Ser. No. 154,815. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921.

FREE LUNCH

Particular description of goods.—Candy.
Claims use since 1890.

Ser. No. 155,595. (CLASS 39. CLOTHING.) J. H. BLAETZ, Philadelphia, Pa. Filed Nov. 19, 1921.

BABY LAMB
SILK-N-WOOL
HOSE

The right to the exclusive use of the phrase "Silk-N-Wool Hose" is disclaimed except as associated with the other features of the trade-mark; but applicant does not by this disclaimer surrender its common-law rights to this phrase.
Particular description of goods.—Hosiery.
Claims use since Sept. 15, 1921.

Ser. No. 155,973. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MAXSON AUTOMATIC MACHINERY COMPANY, Westerly, R. I. Filed Nov. 26, 1921.

MAMCO

Particular description of goods.—Machines for Cutting, Piling, Folding, Feeding, Counting, Marking, Sorting, and Bundling or Wrapping Paper and Other Sheet Material.
Claims use since August, 1921.

Ser. No. 156,105. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDRICK M. NAUMANN, doing business as F. M. Naumann Company, Cleveland, Ohio. Filed Nov. 30, 1921.



Particular description of goods.—Antiseptic for the Prevention of Venereal Diseases.
Claims use since Oct. 1, 1921.

Ser. No. 156,207. (CLASS 43. THREAD AND YARN.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Dec. 2, 1921.

RAINBOW

Particular description of goods.—Yarn.
Claims use since Nov. 10, 1921.

Ser. No. 156,344. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LAMAR F. BRUNNER, doing business as Utility Fittings Company, Philadelphia, Pa. Filed Dec. 6, 1921.

UTILITY

Particular description of goods.—Electric Conduit Fittings Exclusive of Lighting Fixtures.
Claims use since December, 1916.

Ser. No. 156,688. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HUNGER & HUNGER, Sacramento, Calif. Filed Dec. 14, 1921.

HUNGERS HANDY HANGER

The claim for registration of the word "Hanger" as a part of the trade-mark is waived, except in connection with the words "Hunger's Handy Hanger."
Particular description of goods.—Clothes Hangers.
Claims use since Aug. 1, 1921.

Ser. No. 156,955. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Filed Dec. 20, 1921.

PEROLINE

Particular description of goods.—Clear Liquid Chemical Preparation of Acid Reaction for Preventing Rust.
Claims use since June 1, 1921.

Ser. No. 157,020. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BARTHOLOMEW BATTERY & SUPPLY CO., doing business as Bartholomew Battery Co., St. Louis, Mo. Filed Dec. 22, 1921.

SPHINX
BUILT TO LAST



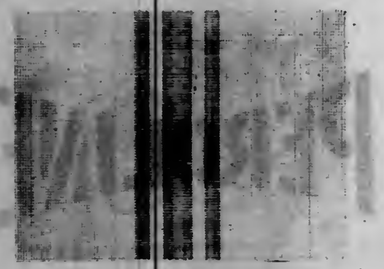
No claim being made to the expression "Built to Last" except as shown in the accompanying drawing.
Particular description of goods.—Secondary Electrical Batteries.
Claims use since Oct. 1, 1921.

Ser. No. 157,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES K. HEVENER, doing business as Jameson-Hevener Company, St. Paul, Minn. Filed Dec. 27, 1921.

GOLDEN VALLEY
SPECIAL PATENT
FLOUR

I hereby disclaim the words "Special Patent" and "Flour" as part of the mark to be registered.
Particular description of goods.—Wheat Flour.
Claims use since Jan. 1, 1921.

Ser. No. 157,367. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GREAT FALLS MANUFACTURING COMPANY, Somersworth, N. H. Filed Dec. 31, 1921.



The mark does not comprise color, but consists of three woven parallel stripes running longitudinally through the goods. No claim is made to the representation of the goods.

Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 1, 1921.

Ser. No. 157,690. (CLASS 17. TOBACCO PRODUCTS.) PEOPLES DRUG STORES, INC., Washington, D. C. Filed Jan. 9, 1922.

Avalon

Particular description of goods.—Cigars.
Claims use since July 1, 1921.

Ser. No. 157,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. STRAUBEL CO., Green Bay, Wis. Filed Jan. 12, 1922.

CASCO

Particular description of goods.—Cheese.
Claims use since Nov. 1, 1921.

Ser. No. 157,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAULINE K. HORNSBY, Chicago, Ill. Filed Jan. 14, 1922.

D'Eau D'Reur

I hereby disclaim all the wording appearing on the drawing with the exception of the term "D Eau D Reur."
Particular description of goods.—Deodorants.
Claims use since Jan. 21, 1920.

Ser. No. 158,191. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE MAYNARD COAL COMPANY, Columbus, Ohio. Filed Jan. 20, 1922.



Particular description of goods.—Bituminous Coal.
Claims use since Oct. 1, 1921.

Ser. No. 158,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA ALFALFA PRODUCTS COMPANY, Pasadena, Calif. Filed Jan. 21, 1922.



The words "Alfalfa-Vitamines are Life, California Alfalfa Products, Trade-Mark" are disclaimed separate and apart from the trade-mark.

Particular description of goods.—Tablets. Said Tablets Comprise a Medicine in Tablet Form Possessing a Therapeutic and Tonic Value.
Claims use since on or about Mar. 1, 1921.

Ser. No. 159,096. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS B. LAMB, New York, N. Y. Filed Feb. 9, 1922.

KIDDYLAND

Particular description of goods.—Handkerchiefs.
Claims use since Dec. 1, 1921.

Ser. No. 159,140. (CLASS 43. THREAD AND YARN.) N. CHERTOFF, INC., doing business as U. S. Sewing Thread Co., New York, N. Y. Filed Feb. 10, 1922.



No claim is made to the words "U. S. Sewing Thread Co., New York, N. Y., Full Yardage Guaranteed" or to the representation of the goods apart from the rest of the mark shown on the drawing.

Particular description of goods.—Thread and Yarn.
Claims use since Jan. 15, 1922.

Ser. No. 159,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed Feb. 14, 1922.

Elite

Particular description of goods.—Candles.
Claims use since about Sept. 1, 1894.

Ser. No. 159,449. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VILLER & FROST, Paris, France. Filed Feb. 16, 1922.



No claim is made for the words "Eau a Detacher, Etc." apart from the mark shown.

Particular description of goods.—Furniture and Automobile Polish.
Claims use since 25 years.

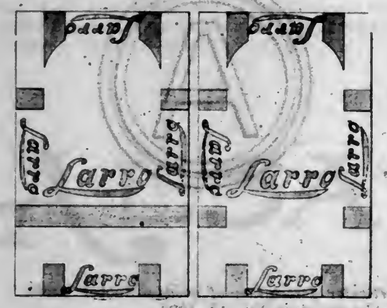
Ser. No. 159,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARROWE MILLING COMPANY, Detroit, Mich. Filed Feb. 20, 1922.



No claim is made to the words "The Ready Ration for Dairy Cows" apart from the mark shown on the accompanying drawing. The lines on the drawing indicate blue.

Particular description of goods.—Dairy and Cattle Feed.
Claims use since Feb. 8, 1922.

Ser. No. 159,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARROWE MILLING COMPANY, Detroit, Mich. Filed Feb. 20, 1922.



The lines in the drawing indicate red and blue.

Particular description of goods.—Dairy and Cattle Feed.
Claims use since Feb. 8, 1922.

Ser. No. 159,589. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARROWE MILLING COMPANY, Detroit, Mich. Filed Feb. 20, 1922.



The lines on the drawing indicate red and blue.

Particular description of goods.—Dairy and Cattle Feed.
Claims use since Feb. 8, 1922.

Ser. No. 159,676. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALLEN GRAVEL COMPANY, Memphis, Tenn. Filed Feb. 23, 1922. Under ten-year proviso.

Tishomingo

Particular description of goods.—Paving Gravel.
Claims use since about July 1, 1880.

Ser. No. 159,828. (CLASS 39. CLOTHING.) ARMSTRONG CORK COMPANY, Pittsburgh and Lancaster, Pa. Filed Feb. 27, 1922.



Particular description of goods.—Rubber Heels.
Claims use since Jan. 19, 1922.

Ser. No. 159,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OLD HOMESTEAD BREAD COMPANY, Denver, Colo. Filed Feb. 28, 1922.

old homestead

Particular description of goods.—Bread.
Claims use since July, 1891.

Ser. No. 160,165. (CLASS 2. RECEPTACLES.) THE TIN DECORATING COMPANY OF BALTIMORE, Baltimore, Md. Filed Mar. 3, 1922.

Perfumidor

Particular description of goods.—Receptacles for Gloves, Handkerchiefs, Lingerie, and Sewing Materials Made of Materials Other than Precious Metals.
Claims use since Jan. 16, 1922.

Ser. No. 160,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ARTHUR L. LEECH CO., Kennebunk, Me. Filed Mar. 18, 1922.

LEECH'S
GOLDEN GLOW

Particular description of goods.—Flavorings and Extracts Used for Food-Flavoring Purposes Only.
Claims use since Mar. 15, 1921.

Ser. No. 160,908. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY W. WEBSTER, doing business as Decorators Wall Paper Co., Toledo, Ohio. Filed Mar. 18, 1922.

DEKO

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Putty, Linseed Oil, Turpentine, Paint Pigments, Paint Colors.
Claims use since 1918.

Ser. No. 161,283. (CLASS 37. PAPER AND STATIONERY.) STANDARD PAPER MANUFACTURING CO., Richmond, Va. Filed Mar. 25, 1922.

"More Mental Impressions from each Printing Impression."

Particular description of goods.—Blotters.
Claims use since Mar. 10, 1922.

Ser. No. 161,831. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) FALSTAFF CORPORATION, St. Louis, Mo. Filed Apr. 6, 1922.

Falstaff

Particular description of goods.—Malt Extract.
Claims use since July 13, 1921.

Ser. No. 161,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANSON MILLING COMPANY, Ashland, Wis. Filed Apr. 7, 1922.



No claim is made to the word "Flour" apart from the mark shown in the drawing.
Particular description of goods.—Wheat Flour.
Claims use since Jan. 16, 1922.

Ser. No. 161,949. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEITZ & LEFFT, New York, N. Y. Filed Apr. 8, 1922.

VICTORY

Particular description of goods.—Alimentary Paste—Namely, Noodles.
Claims use since October, 1920.

Ser. No. 162,400. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HOLBROOK, MERRILL & STETSON, San Francisco and Los Angeles, Calif. Filed Apr. 17, 1922.

Pacific

Consisting of the word "Pacific."
Particular description of goods.—Cooking and Heating Stoves, Not Including Oil or Kerosene Lamp Stoves, and Stovepipe, Ranges, Gas Shelves, Ovens; Furnaces, Not Including Gas Floor Furnaces or Gas Furnaces, for Heating Buildings; Boilers; Radiators, Not Including Gas Radiators; Water Heaters, Tank Heaters, and Camp Ovens.
Claims use since 1899.

Ser. No. 162,696. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH SHELY, doing business as Alsa Laboratory, Los Angeles, Calif. Filed Apr. 21, 1922.

ALSA

Particular description of goods.—Toilet Preparations—Namely, Almond Bleaching Cream, Rouge, Nail White, Blackhead Remedy, Wrinkle Eradicator.
Claims use since Sept. 20, 1921.

Ser. No. 162,949. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS H. PEPPERS, Los Angeles, Calif. Filed Apr. 26, 1922.

HIGHLANDER

Particular description of goods.—Fresh Cantaloupes.
Claims use since July 1, 1921.

Ser. No. 162,980. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JAY BURNS BAKING COMPANY, Omaha, Nebr. Filed Apr. 27, 1922.

Wheat Tone

Particular description of goods.—Loaves of Wheat Bread.
Claims use since Apr. 20, 1922.

Ser. No. 162,985. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DEUTSCHE ELEKTRIZITÄTS-WERKE ZU AACHEN-GARBE, LAHMEYER & CO.-AKTIENGESELLSCHAFT, Aachen, Germany. Filed Apr. 27, 1922.

Original Garbe-Lahmeyer

Particular description of goods.—Dynamos, Electromotors and Parts Thereof, Electrical Apparatus—viz, Rheostats, Shunt Resistances, Starting Resistances, Electrical Switch Apparatus, Switchboards, and Transformers.
Claims use since about Nov. 23, 1921.

Ser. No. 163,117. (CLASS 39. CLOTHING.) LOUIS SHAPIRO, doing business as Louis Shapiro and Co., Mount Vernon, N. Y. Filed Apr. 29, 1922.



No claim being made to the words "Clothes," "System," and "Hand Tailored" apart from the mark as shown.
Particular description of goods.—Men's Ready-Made Suits and Overcoats.
Claims use since Apr. 11, 1922.

Ser. No. 163,232. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. OLDACH, INC., Philadelphia, Pa. Filed May 2, 1922.

BETTER BREAD B BRAND

Applicant hereby disclaims the use of the words "Better Brand Bread" apart from the mark as shown.
Particular description of goods.—Fancy, Patent Hard-Wheat Flour.
Claims use since about May 15, 1922.

Ser. No. 163,430. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES BUTLER GROCERY COMPANY, New York, N. Y. Filed May 6, 1922.

MAGNUM BONUM

Particular description of goods.—Birds' Food.
Claims use since May 1, 1889.

Ser. No. 163,512. (CLASS 31. FILTERS AND REFRIGERATORS.) THE FREEZERATOR CO., Detroit, Mich. Filed May 8, 1922.

FREEZERATOR

Particular description of goods.—Artificial Refrigerating Apparatus for Household Use.
Claims use since June, 1920.

Ser. No. 163,722. (CLASS 39. CLOTHING.) GEORGE WILLS AND SONS, LTD., London, England, and San Francisco, Calif. Filed May 11, 1922.



The lining of the drawing is for the purpose of shading only.
Particular description of goods.—Hosiery.
Claims use since Feb. 26, 1919.

Ser. No. 163,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILLING COMPANY, Peoria, Ill. Filed May 15, 1922.

AMERICAN DAIRY RATION

No separate claim being made to the words "American Dairy Ration" apart from the mark shown in the drawing.
Particular description of goods.—Dairy Feed.
Claims use since June 27, 1921.

Ser. No. 163,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CERTIFIED FOODS, INC., Westfield, Mass. Filed May 16, 1922.



"Unequaled for Seasoning" and "Westfield, Massachusetts" are hereby disclaimed.
Particular description of goods.—Food Preparation Consisting of a Vegetable Seasoning in Powdered Form Used in the Preparation of Other Foods.
Claims use since May 12, 1922.

Ser. No. 164,180. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. METZGER, doing business as W. H. Metzger Company, Bloomington, Ill. Filed May 20, 1922.

GARDENERS FRIEND

Particular description of goods.—An Exterminator for Insects, Used as a Dusting Powder for Controlling Bugs, Worms, and Vermin on Plant Life, Trees, Flowers, and Vines.
Claims use since Nov. 18, 1921.

Ser. No. 164,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUISENBERRY FEED MF'G. CO., Kansas City, Mo. Filed May 22, 1922.



Applicant disclaims any right to the exclusive use of a package of any particular shape and of any or all of the following terms: "Buttermilk Chick," "Starting Food," "Manufacturers & Distributors," and "Kansas City, Mo., U. S. A."
Particular description of goods.—Poultry Feed.
Claims use since Jan. 15, 1922.

Ser. No. 164,285. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed May 22, 1922.

FIELD

Particular description of goods.—Shot Shells.
Claims use since about 1905.

Ser. No. 164,291. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ANACONDA COPPER MINING COMPANY, New York, N. Y. Filed May 23, 1922.

ANACONDA

Particular description of goods.—Cast, Drawn, Rolled, Extruded, Pressed, and Machined, Nonferrous Metals and Alloys and Ingots, Castings, Sheets, Rolls, Wire Strips, and Rods Made From Such Metals and Alloys, and Specifically the Following; Brass, Low Brass, Rich Low Brass, Commercial Bronze, and Gilding in Rolls and Sheets; Phosphor-Bronze Rolls and Sheets; Sawed Brass, Brazing Brass, Drawing Brass, Spinning Brass, Polished Brass, Bronze Sheets, Brass Wire, Low-Brass Wire, Bronze Wire, Gilding Wire, Pin Wire, Screw Wire, Brass Rods, Bronze Rods, Free-Turning Rods, Hot-Rolled and Cold-Rolled Copper in Sheets and Rolls, Hot and Cold Rolled Circles, Copper Bars, Copper Strips, Unfinished Commutator Copper Bars and Strips, Copper Circles, Polished Copper Sheets, Brass and Copper Drawn Molding; Nickel Silver in Sheets, Rolls, Circles, Rods, and Wire; and Polished Nickel-Silver Sheets.
Claims use since May 1, 1922.

Ser. No. 164,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADVANCE CANDY M'F'G CORP., New York, N. Y. Filed May 24, 1922.

HAV-A-DRINK

Particular description of goods.—Chocolate Candy.
Claims use since Apr. 15, 1922.

Ser. No. 164,472. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE VICTOR-AMERICAN FUEL COMPANY, Portland, Me., and Denver, Colo. Filed May 24, 1922.

WADGE

Particular description of goods.—Coal.
Claims use since Apr. 22, 1916.

Ser. No. 164,476. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE VICTOR-AMERICAN FUEL COMPANY, Portland, Me., and Denver, Colo. Filed May 24, 1922.

SUNSHINE-MAITLAND

Particular description of goods.—Coal.
Claims use since Apr. 22, 1916.

Ser. No. 164,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUISENBERRY FEED M'F'G. CO., Kansas City, Mo. Filed June 1, 1922.



Applicant disclaims any right to the exclusive use of a package of any particular shape and of the wording shown with the exception of "Quisenberry Quality" and the applicant's corporate name.
Particular description of goods.—Poultry Feed.
Claims use since Jan. 15, 1922.

Ser. No. 164,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUISENBERRY FEED M'F'G. CO., Kansas City, Mo. Filed June 1, 1922.



Applicant disclaims any right to the exclusive use of a package of any particular shape and the wording shown with the exception of "Quisenberry Quality" and the applicant's corporate name.
Particular description of goods.—Poultry Feed.
Claims use since Jan. 15, 1922.

Ser. No. 165,010. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DISC ALLEY MANUFACTURING COMPANY, Atlanta, Ga. Filed June 5, 1922.

Disc-Alley

Particular description of goods.—A Parlor Board Game.
Claims use since May 12, 1922.

Ser. No. 165,483. (CLASS 15. OILS AND GREASES.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed June 14, 1922.

PREMO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Oct. 17, 1912.

Ser. No. 165,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS A. MYERS, doing business as Ye Olde Tyme Hard and Soft Pretzel Shop, York, Pa. Filed June 14, 1922.

PEP

Particular description of goods.—Pretzels.
Claims use since January, 1921.

Ser. No. 165,552. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HINCKLEY MANUFACTURING CO., Providence, R. I. Filed June 15, 1922.

HINCO

Particular description of goods.—Buttons, Shoe Ornaments, Badges, and Emblems Which Are Made Wholly or in Part of Base Metal.
Claims use since May 20, 1922.

Ser. No. 165,950. (CLASS 39. CLOTHING.) GILLETTE RUBBER COMPANY, Eau Claire, Wis. Filed June 23, 1922.

A Bear for Wear



Particular description of goods.—Raincoats.
Claims use since Jan. 1, 1918.

Ser. No. 165,990. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAP. EUSTATHOPOULO & FILS, New York, N. Y. Filed June 24, 1922.



Particular description of goods.—Cotton Goods in the Piece.
Claims use since February, 1922.

Ser. No. 166,713. (CLASS 10. FERTILIZERS.) THE ROGERS & HUBBARD COMPANY, Portland, Conn. Filed July 10, 1922.



The words "Connecticut" and "Bone Base" are disclaimed apart from the mark shown in drawing.
Particular description of goods.—Fertilizers.
Claims use since about July 1, 1909.

Ser. No. 166,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIP SMOLINSKY, doing business as Parkview Pharmacy, Kansas City, Mo. Filed July 10, 1922.

FRUIT SALAD

Particular description of goods.—Ice Cream.
Claims use since June 15, 1921.

Ser. No. 166,965. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WELDIT COMPANY, Washington, D. C. Filed July 15, 1922.

SPITFIRE

Particular description of goods.—Preheating Torches.
Claims use since July 6, 1922.

Ser. No. 167,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAM, GLINES & CO., INC., New York, N. Y. Filed July 20, 1922.

CHINA CLUB TEA

Said corporation hereby expressly disclaims any intention or right to use exclusively the word "Tea" apart from the other features of the mark shown on the accompanying drawing, the application being one for the registration as the applicant's trade-mark of the combination of words shown on the said drawing.
Particular description of goods.—Tea.
Claims use since Apr. 1, 1922.

Ser. No. 167,277. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK C. WILLIAMS, INC., doing business as Frank C. Williams, Easton, Pa. Filed July 22, 1922.

SILVER STAR

Particular description of goods.—Wheat Flour.
Claims use since 1915.

Ser. No. 167,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AULT & WIBORG CO., Cincinnati, Ohio. Filed July 24, 1922.

NON FLI

Particular description of goods.—Dry Color for Use in Rubber Manufacturing.
Claims use since November, 1920.

Ser. No. 167,347. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEORGE M. BIEHL, doing business as Liberty Storage Battery Company, Pottsville, Pa. Filed July 25, 1922.

Liberty

Particular description of goods.—Storage Batteries.
Claims use since September, 1918.

Ser. No. 167,386. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. G. FLECKENSTEIN CO., Muskegon, Mich. Filed July 26, 1922.

FLEXOAK

Particular description of goods.—Sole Leather in the Side, in Backs, in Bends, and in Bend Hearts.
Claims use since 1919.

Ser. No. 167,530. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSCHAT IMPORT CO., INC., New York, N. Y. Filed July 28, 1922.

Léda

Particular description of goods.—Cologne Waters, Bath Salts, Face Clays, Cold Creams, Vanishing Creams, Face Creams, Deodorizers, Depilatory, Eyebrow Pencils, Eyelash Blacks, Hair Tonics, Hair Washes, Hair Restorers, Hand Lotions, Lip Sticks, Nail Polishes, Nail Pastes, Perfumes, Face Powders, Talcum Powders, Liquid Face Powders, Rouges, Sachet Powders, Shampoos, Skin Ointments, Toilet Waters and Toilet Vinegars; Tooth Powders, Tooth Pastes, Mouth Washes, and Toilet-Powder Compacts.
Claims use since June 20, 1922.

Ser. No. 167,533. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISRAEL PAUL, doing business as Russpharmaco Products Co., Philadelphia, Pa. Filed July 28, 1922.



The figure is purely fanciful. The word "Products" is disclaimed apart from the remainder of the mark shown.
Particular description of goods.—Medicine for the Treatment of the Blood and Stomach.
Claims use since about May 31, 1922.

Ser. No. 167,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASA A. HATFIELD, doing business as Med-A-Dent Dental Specialties Company, Danville, Ky. Filed Aug. 1, 1922.

Med-A-Dent

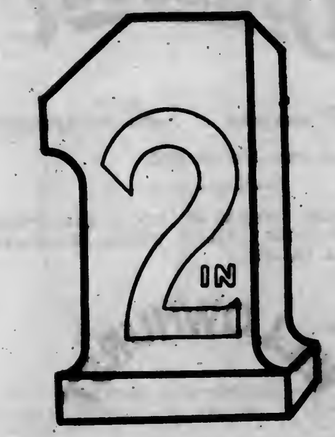
Particular description of goods.—Tooth Paste, Tooth Cleanser, and a Preparation for the Treatment of Pyorrhea.
Claims use since May 1, 1922.

Ser. No. 167,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POTTER-MCCUNE COMPANY, McKeesport, Pa. Filed Aug. 1, 1922.

POMCO

Particular description of goods.—Coffee, Canned Fruits, Canned Vegetables, Canned Fish, and Table Molasses.
Claims use since Jan. 1, 1913.

Ser. No. 167,929. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLIE O. BESAW, Reedley, Calif. Filed Aug. 8, 1922.



Particular description of goods.—Fuse Plugs.
Claims use since Jan. 1, 1922.

Ser. No. 167,966. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KING COAL COMPANY, San Francisco, Calif. Filed Aug. 8, 1922.



The trade-mark or trade name consists of a deep-blue background, within which the words "Knight Coal" in gold letters are arranged, as appears in the accompanying facsimile, no claim being made to the word "Coal" apart from the mark shown in the drawing.
Particular description of goods.—Coal.
Claims use since on or about the 1st day of May, 1920.

Ser. No. 168,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CRAWFORD FARMS, INCORPORATED, Millbrook, N. Y. Filed Aug. 10, 1922.



No claim being made to the exclusive use of the words "Products Cream Cheese Millbrook, N. Y." apart from the mark as shown in the drawing, no waiver, however, being made to the common-law rights in the use thereof.
Particular description of goods.—Cheese.
Claims use since 1917.

Ser. No. 168,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELISABETH M. MUNSON, doing business as Madame Marie, San Francisco, Calif. Filed Aug. 10, 1922.

MARMUN

Particular description of goods.—Almond Massage Cream, Night Massage Cream, Cleansing Cream, Lemon Cleansing Cream, Freckle Cream, Whitening Cream, Tissue Cream, Pore Cream, Vanishing Cream, Nail

Cream, Shaving Lotion, Beauty Lotion; Cucumber Milk for Treating Blackheads, Pimples, Tan, Sunburn, and Bleaching; Poison-Oak Remedy, Tar Ointment for Treatment of the Scalp, Liquid Rouge, Bandoline, Face Powder, Hair Tonic, Hand Lotion, Astringent, Perfumed Depilatory Powder, Powder Compacts, Rouge Compacts, Bath Powder, Bath Salts, After-Bath Dusting Powder, Talcum Powder, Toilet Waters, Perfumes, and Dry Shampoo.
Claims use since the year 1921.

Ser. No. 168,068. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REDLAND CITRUS GROWERS ASSOCIATION, Homestead, Fla. Filed Aug. 10, 1922.

HEART of REDLANDS

Particular description of goods.—Fresh Citrus Fruits.
Claims use since September, 1919.

Ser No. 168,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT BAITTON, Myrtle Point, Oreg. Filed Aug. 11, 1922.

SUGARLOAF

Particular description of goods.—Cream Cheese.
Claims use since Oct. 26, 1902.

Ser. No. 168,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Territory of Hawaii, and San Francisco, Calif. Filed Aug. 11, 1922.

PINECO

Particular description of goods.—Canned Pineapple.
Claims use since June 15, 1922.

Ser. No. 168,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RANDOLPH MILLING COMPANY, Baldwin, Ill. Filed Aug. 12, 1922.



The lining on the drawing indicates shading only.
Particular description of goods.—Wheat Flour.
Claims use since Aug. 22, 1922.

Ser. No. 168,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRUN MFG. CO., Philadelphia, Pa. Filed Aug. 14, 1922.



Particular description of goods.—Laundry Wax.
Claims use since May 1, 1922.

Ser. No. 168,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORITZ FREIBERGER, Charlottenburg, near Berlin, Germany. Filed Aug. 15, 1922.

TETRACARNIT

Particular description of goods.—Heterocyclic Compounds, Pure or Mixed with Other Chemicals, Dissolved in or Free from Water, for Cleaning, Wetting, Bleaching, Mercerizing, Coloring, or Printing Textile Fibers, Fabrics, Straw, Feathers, Hair, Bristles, Leather, Etc.
Claims use since May, 1917.

Ser. No. 168,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAYTON R. MARSTIN, doing business as The Blazeout Company, Boston, Mass. Filed Aug. 15, 1922.

Blazeout

Particular description of goods.—Fire-Extinguishing Powders.
Claims use since July 29, 1922.

Ser. No. 168,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL R. WEIDNER, Woburn, Mass. Filed Aug. 16, 1922.

WILLOWHURST

Particular description of goods.—Canned Fruits, Canned Vegetables, Dried Fruits, Fruit Preserves in Jars, and Comb-Extracted Honey.
Claims use since May, 1921.

Ser. No. 168,464. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FISHER BODY CORPORATION, Detroit, Mich. Filed Aug. 19, 1922.



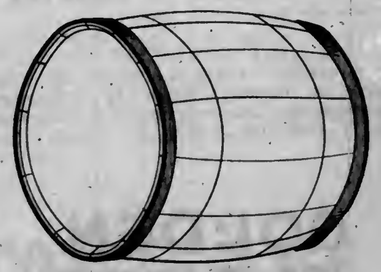
No claim is made to the exclusive use of the word "Body" apart from the mark shown.
Particular description of goods.—Automobile Bodies.
Claims use since first day of August, 1922.

Ser. No. 168,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DUNCAN CHEMICAL COMPANY, Albany, Ala. Filed Aug. 21, 1922.

DUNCAN'S OZON

Particular description of goods.—Medicines for Rheumatism, Backache, Kidney and Bladder Troubles, Toothache, Salivation, Cuts, Bruises, Sore Throat, Coughs, Hay Fever, Burns, Itch, Tetter, Ringworm, Poison Oak, Insect Bites, Sores, Swellings, and Insecticides.
Claims use since March, 1920.

Ser. No. 168,594. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Filed Aug. 23, 1922.



No claim is made to the representation of the barrel per se appearing in the drawing. Trade-mark consists of a red hoop on the keg in which the nails are packed and shipped and contrasting with the natural wood of the keg and other hoops.
Particular description of goods.—Nails.
Claims use since July 11, 1922.

Ser. No. 168,625. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE VITRO MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Aug. 23, 1922.



No claim is made to the exclusive use of the words "Trade Mark" and "Pittsburg, Pa." except as the same appears in connection with other features of the mark.
Particular description of goods.—Ready-Prepared Ceramic Glasses and Enamels.
Claims use since August, 1910.

Ser. No. 168,651. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KITTIE F. SISCHO, Santa Monica, Calif. Filed Aug. 24, 1922.

TUMBLIN' TIM

Particular description of goods.—Dolls.
Claims use since July 11, 1922.

Ser. No. 168,699. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Aug. 25, 1922.

DIABETOST

Particular description of goods.—Bread.
Claims use since Oct. 28, 1921.

Ser. No. 168,719. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) O. D. JENNINGS AND COMPANY, Chicago, Ill. Filed Aug. 26, 1922.

O.D. JENNINGS & COMPANY

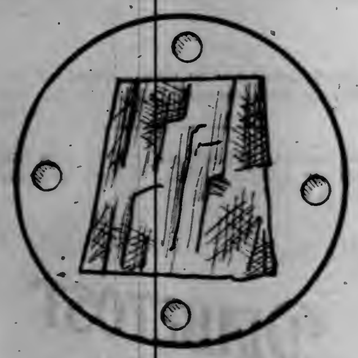
Particular description of goods.—Coin-Controlled Vending Machines.
Claims use since Apr. 9, 1907.

Ser. No. 168,766. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRUENHAGEN'S, San Francisco, Calif. Filed Aug. 28, 1922.

EAT-A-FRUIT

Particular description of goods.—Chocolate Fruit Bar.
Claims use since June 1, 1922.

Ser. No. 168,786. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE RADIOLA WIRELESS CORPORATION, New York, N. Y. Filed Aug. 28, 1922.



The trade-mark consists in four dots spaced equally distant from each other around the circumference of the circular container or mounting, no claim being made to the representation of the goods.
Particular description of goods.—Radio Crystals.
Claims use since Mar. 1, 1922.

Ser. No. 168,901. (CLASS 39. CLOTHING.) LOUSOLS PHILADELPHIA, Philadelphia, Pa. Filed Aug. 30, 1922.

Lousols'

Particular description of goods.—Ladies', Women's, and Misses' Gowns, Wraps, Dresses, Coats, Cloaks, Capes, Skirts, and Suits.
Claims use since on or about Mar. 15, 1916.

Ser. No. 168,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY C. BLAKELY, New Britain, Conn. Filed Aug. 31, 1922.

TASTE
TRADE SARATOGA IXL MARK
CHIPS
TELLS

No claim is made to the words "Saratoga Chips" and "Trade Mark" appearing on the drawing apart from the mark.
Particular description of goods.—Potato Chips.
Claims use since July 1, 1922.

Ser. No. 168,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Sept. 1, 1922.

GOLDEN FLEECE

Particular description of goods.—Candies.
Claims use since June 26, 1922.

Ser. No. 169,053. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) B. H. DYER COMPANY, Philadelphia, Pa. Filed Sept. 5, 1922.

MARVEL
SELF HEATING
HOT BOTTLE

No claim is made to the exclusive use of the words "Self Heating Hot Bottle."
Particular description of goods.—Hot Bottles for Medical Purposes.
Claims use since Aug. 28, 1922.

Ser. No. 169,072. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCE R. NOLEN, doing business as The Nolen Apiaries, Kerens, Tex. Filed Sept. 5, 1922.

COTTON BLOSSOM

Particular description of goods.—Honey.
Claims use since about the first of August, 1922.

Ser. No. 169,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRISTATE BAKING CO., Flint, Mich. Filed Sept. 5, 1922.

COFFEE-AN'S

Particular description of goods.—Edible Rolls.
Claims use since Mar. 1, 1922.

Ser. No. 169,170. (CLASS 39 CLOTHING.) NICKELS MANUFACTURING COMPANY, Bristol, Va. Filed Sept. 7, 1922.

June Fox

The trade-mark comprises the words "June Fox" as written by C. E. Nickels, president, of the Nickels Manufacturing Company.
Particular description of goods.—Ladies', Misses', and Children's Dresses.
Claims use since Aug. 1, 1922.

Ser. No. 169,240. (CLASS 39. CLOTHING.) THE L. N. GROSS COMPANY, Cleveland, Ohio. Filed Sept. 9, 1922.

Stride A Way

The pictorial representation of the goods displayed is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Women's Bloomers.
Claims use since about Aug. 1, 1922.

Ser. No. 169,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed Sept. 11, 1922. Under ten-year proviso.

Primrose Wheat

Particular description of goods.—A Breakfast Cereal Food.
Claims use since June 20, 1887.

Ser. No. 169,311. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS L. LIPSCHULTZ, doing business as Lips Specialty Candy Co., Chicago, Ill. Filed Sept. 11, 1922.

RED HOTS

Particular description of goods.—Candy.
Claims use since Aug. 19, 1922.

Ser. No. 169,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) (BOLLING LYNN ROBERTSON, doing business as Manassas Feed & Milling Co., Manassas, Va. Filed Sept. 11, 1922.

BULL RUN

Particular description of goods.—Wheat Flour.
Claims use since May 10, 1922.

Ser. No. 169,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WATSON & AVEN, Little Rock, Ark. Filed Sept. 11, 1922.

ANGELENE

Particular description of goods.—Ice Cream.
Claims use since July 1, 1920.

Ser. No. 169,372. (CLASS 39. CLOTHING.) THE PEP RUBBER COMPANY, INC., New York, N. Y. Filed Sept. 12, 1922.

TP

Particular description of goods.—Rubber Heels.
Claims use since May, 1919.

Ser. No. 169,386. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Sept. 12, 1922.

HONEST PLEDGE

Particular description of goods.—Bread.
Claims use since Aug. 24, 1922.

Ser. No. 169,396. (CLASS 39. CLOTHING.) DORFMAN & MILLER, New York, N. Y. Filed Sept. 13, 1922.

YOUTHFUL COATS

No claim being made to the word "Coats" apart from the mark shown on the drawing.
Particular description of goods.—Coats for Children, Juniors, Misses, and Ladies.
Claims use since Jan. 12, 1922.

Ser. No. 169,407. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. MILTENBERG, INC., New York, N. Y. Filed Sept. 13, 1922.

FORTUNA

Particular description of goods.—Paprika and Spices.
Claims use since Dec. 12, 1921.

Ser. No. 169,490. (CLASS 39. CLOTHING.) JORDAN MARSH COMPANY, Boston, Mass. Filed Sept. 15, 1922.

Copley

Particular description of goods.—Men's Hats, Caps, Collars; Dress, Negligee, and Work Shirts; Sweaters, Underwear of Textile Fabric and Knitted Underwear, Stockings, Socks; Shoes, Made of Leather, Rubber and Fabric; Slippers, Coats, Vests, Trousers, Overcoats; Gloves, Leather, Rubber, and Fabric; Overshoes, Spats, and Gaiters.
Claims use since Aug. 15, 1922.

Ser. No. 169,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. B. RAFFETTO, INC., New York, N. Y. Filed Sept. 16, 1922.

PLANTATION CIRCLES
SWEET PICKLED WATERMELON RIND

No claim being made for the words "Sweet Pickled Watermelon Rind" appearing on the drawing.
Particular description of goods.—Sweet-Pickled Watermelon Rind.
Claims use since about June 1, 1922.

Ser. No. 169,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS B. FELLNER, Belleville, Ill. Filed Sept. 18, 1922.



No claim is made to the word "Bread" apart from the mark as shown in the drawing.
Particular description of goods.—Bread.
Claims use since Mar. 1, 1922.

Ser. No. 169,582. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) LAWRENCE A. FINSTICK, doing business as Hi-Way Laboratories, La Porte, Ind. Filed Sept. 18, 1922.

-(H)-WAY-

Particular description of goods.—Self-Vulcanizing Tire Patch.
Claims use since Feb. 15, 1922.

Ser. No. 169,715. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON CO., doing business as Johnston's, Milwaukee, Wis. Filed Sept. 20, 1922.

Ye Town Crier

Particular description of goods.—Candies.
Claims use since Aug. 1, 1922.

Ser. No. 169,731. (CLASS 39. CLOTHING.) FREDERICK H. TIMSON, Boston, Mass. Filed Sept. 20, 1922.

Ankle Overs

Particular description of goods.—Gaiters of Leather, Fabric, and Combination.
Claims use since Sept. 14, 1922.

Ser. No. 169,751. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISRAEL GELTMAN, New York, N. Y. Filed Sept. 21, 1922.

Zeal



Particular description of goods.—Cheese, Mustard, Farina, Tea, Coffee, Chocolate, Condensed Milk, Rice, Raisins, Prunes, Marmalade, Sardines, Tunny Fish, Pepper, Almonds, Walnuts, Both Shelled and in Their Natural State.
Claims use since December, 1921.

Ser. No. 169,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEVER ENOUGH PIE COMPANY, Bridgeport, Conn. Filed Sept. 21, 1922.

YANKEE ROLL

No registration rights are claimed for the term "Roll" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Articles of Food Consisting of a Shell of Baked Dough Having Rolled within It Before Baking a Filling Consisting of Chopped Meats, Fish, Mincemeat, Cheese, Jelly, Chocolate, Berries, or Fruits.
Claims use since Aug. 4, 1922.

Ser. No. 169,798. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ANSCO COMPANY, Binghamton, N. Y. Filed Sept. 22, 1922.

MEMORY KIT

No claim is made to the word "Kit" apart from the mark shown on the drawing.
Particular description of goods.—Combined Camera and Film Kits.
Claims use since Sept. 18, 1922.

Ser. No. 169,826. (CLASS 39. CLOTHING.) RUBIN BROS. FOOT-WEAR, New York, N. Y. Filed Sept. 22, 1922.



No claim is made by the applicants to the exclusive use of the word "Footwear" apart from the mark shown in the drawing.

Particular description of goods.—Leather, Cloth, and Fabric Shoes and Slippers and Cloth Spats.

Claims use since Mar. 1, 1922.

Ser. No. 169,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Sept. 23, 1922.

Premier

CHOC-O-MEL

Particular description of goods.—Flavoring Preparation for Food Products.

Claims use since Feb. 1, 1922.

Ser. No. 169,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HIPPOLYTE E. CAPDAU, New Orleans, La. Filed Sept. 25, 1922.

CATAVA

Particular description of goods.—Salve for the Treatment of Catarrh, Sore Throat, Croup, Colds, Cough, Bronchitis, Tonsillitis, Sprains, Stiff Muscles, and the Like.

Claims use since Jan. 1, 1918.

Ser. No. 169,900. (CLASS 39. CLOTHING.) GLOBE SHOE COMPANY, Chelsea, Mass. Filed Sept. 25, 1922.

ARCHLOBE



Particular description of goods.—Women's Boots and Shoes Made Wholly or in Part of Leather and Cloth.

Claims use since June 1, 1922.

Ser. No. 170,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. M. EDWARDS INCORPORATED, Atlanta, Ga. Filed Sept. 28, 1922.



The picture appearing on the drawing is fanciful.

Particular description of goods.—Hair Tonics and Scalp Preparation.

Claims use since June 15, 1922.

Ser. No. 170,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Sept. 29, 1922.



The lining in the drawing indicates shading only and not color. No claim is made to the exclusive use of the representation of a cooky as shown apart from the mark.

Particular description of goods.—Cracker Products, Crackers, Cakes, and Dutch-Style Cookies.

Claims use since June 3, 1922.

Ser. No. 170,201. (CLASS 39. CLOTHING.) THE KONDO NOVELTY CO., Mount Vernon, N. Y. Filed Oct. 2, 1922.

Hose-Ups

Particular description of goods.—Hosiery Supporters.

Claims use since Aug. 2, 1922.

Ser. No. 170,267. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis. Filed Oct. 4, 1922.

BEAVER

Particular description of goods.—Nonmetallic Tires.

Claims use since on or about Sept. 1, 1922.

Ser. No. 170,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

LOVELAND

Particular description of goods.—Chocolates and Candies.

Claims use since June 25, 1921.

Ser. No. 170,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NYPROS STEEL COMPANY, Philadelphia, Pa. Filed Oct. 6, 1922.

NYPROS

Particular description of goods.—Liquid Used in Heat-Treating Steel.

Claims use since about Sept. 12, 1922.

Ser. No. 170,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK H. BRYANT, doing business as Poe Chemical Company, Troy, N. Y. Filed Oct. 7, 1922.

ANTI AGONY



Particular description of goods.—Preparation for Internal and External Use for the Alleviation of Pain and for Various Other Uses—Namely, Typhoid Fever, Congestions, and Swellings.

Claims use since about Jan. 20, 1895.

Ser. No. 170,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK L. KAYACK, New York, N. Y. Filed Oct. 7, 1922.

GREEN RIBBON

Particular description of goods.—Salad Dressing.

Claims use since Apr. 1, 1922.

Ser. No. 170,439. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANHASSET MANUFACTURING COMPANY, Providence, R. I. Filed Oct. 7, 1922.



Particular description of goods.—Cotton Tire Fabrics in the Piece, Including What are Known to the Trade as Bead Cover Fabric, Chafing-Strip Fabric, Thread Fabric, Repair Fabric, Leno Breaker Fabric, Cord Fabric, and Builder Fabric.

Claims use since Mar. 19, 1917.

Ser. No. 170,440. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANHASSET MANUFACTURING COMPANY, Providence, R. I. Filed Oct. 7, 1922.

MANHASSET

Particular description of goods.—Cotton Fabric in the Piece, Including What is Known to the Trade as "Grey Goods" Which is the Fabric as It Comes from the Loom Suitable for Bleaching, Dyeing, and Finishing or for Mechanical Use, Tire Fabrics, Tent Ducks, and Other Ducks, Not Waterproofed.

Claims use since Mar. 19, 1917.

Ser. No. 170,489. (CLASS 39. CLOTHING.) LA CROSSE RUBBER MILLS CO., doing business as Wisconsin Rubber Mills Co., La Crosse, Wis. Filed Oct. 9, 1922.

WISCONSIN
RUBBER MILLS CO.
LA CROSSE, WIS. U.S.A.

No claim being made for "La Crosse, Wis., U. S. A." apart from the mark shown by the drawing. The trade-mark shown in the drawing includes the words "Wiscon-

sin Rubber Mills Co.," which constitutes a fictitious name under which a certain grade of the applicant's products is sold.

Particular description of goods.—Rubber Boots and Shoes.

Claims use since July 1, 1921.

Ser. No. 170,655. (CLASS 39. CLOTHING.) LEDERER & LATZ, doing business as The Barriemore Shop, New York, N. Y. Filed Oct. 12, 1922.

Barriemore

Particular description of goods.—Shoes Made of Leather.

Claims use since Aug. 1, 1921.

Ser. No. 170,729. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOEL H. ROGERS, doing business as Rogers Bracket Company, Jacksonville, Fla. Filed Oct. 14, 1922.

WETOG

Particular description of goods.—Curtain Brackets.

Claims use since Oct. 6, 1922.

Ser. No. 170,757. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE EAGLE PICHER LEAD COMPANY, Cincinnati, Ohio. Filed Oct. 16, 1922.



No claim is made to the representation of a bucket apart from the mark shown in the drawing, in which the lining indicates shading. The mark consists of two white stripes arbitrarily placed and encircling the receptacle, which is dark colored and which contains pure white lead.

Particular description of goods.—Pure White Lead.

Claims use since Feb. 15, 1922.

Ser. No. 170,807. (CLASS 39. CLOTHING.) CAPITOL HAT FRAME WORKS, Des Moines, Iowa. Filed Oct. 17, 1922.



Particular description of goods.—Hat Frames.

Claims use since December, 1910.

Ser. No. 170,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL HOLZMAN, doing business as Tsout Remedy Co., New York, N. Y. Filed Oct. 17, 1922.

Particular description of goods.—Remedy for Corns, Calluses, and Warts.

Claims use since June 1, 1922.

Ser. No. 170,910. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TRICO PRODUCTS CORPORATION, Buffalo, N. Y. Filed Oct. 18, 1922.

TRICO

Particular description of goods.—Mirrors for Vehicles, Windshield Wings, Shock Absorbers, Vehicle Windshield Fittings, and Shim or Wedge Type Rim Tighteners for Demountable Rims of Vehicles.

Claims use since May, 1918.

Ser. No. 170,913. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Oct. 18, 1922.

DURATUBE

Particular description of goods.—Protective Covering for Electrical Wires.

Claims use since on or about Sept. 28, 1921.

Ser. No. 170,967. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAX L. BROOKS, Brooklyn, N. Y. Filed Oct. 20, 1922.



Applicant makes no claim to the word "Billiards" apart from the mark shown in the drawing, the letter "K" and the representation of the diamond and of the heart being indicated in red.

Particular description of goods.—Games and Game Apparatus Utilizing a Surface Having a Plurality of Pockets Therein Bearing Designations of Different Values, and Balls Having Designations of Different Values, Whereby When a Player Rolls a Ball into a Pocket the Combined Value of the Pocket and Ball is Accredited to the Player.

Claims use since Oct. 16, 1922.

Ser. No. 171,003. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) VOORHEES RUBBER MFG. CO., Jersey City, N. J. Filed Oct. 20, 1922.



The trade-mark consists of the letter "V" within a rectangular border, the words "Voorhees Rubber M'f'g. Co." being arranged within the "V," as shown in the accompanying drawing.

Particular description of goods.—Hose, Belting, and Packing Made Wholly or Partly of Rubber or of a Rubber Composition.

Claims use since January, 1921.

Ser. No. 171,014. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FABRIQUES DES MONTRES ZENITH, Le Locle, Switzerland. Filed Oct. 21, 1922.

ZENITH

Particular description of goods.—Magnetos and Electric Motors.

Claims use since January, 1915.

Ser. No. 171,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEPHEN F. WHITMAN & SON, Philadelphia, Pa. Filed Oct. 21, 1922.

PEEK-IN

Particular description of goods.—Candy.

Claims use since Oct. 1, 1922.

Ser. No. 171,060. (CLASS 25. LOCKS AND SAFES.) BERSTED MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 23, 1922.

SUPERLOCK

Particular description of goods.—Locking Door Handles.

Claims use since Sept. 15, 1922.

Ser. No. 171,140. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL D. SCHNEIDER, doing business as Gintone Laboratories, Memphis, Tenn. Filed Oct. 24, 1922.

Eskimo Quinine

No claim is made to the word "Quinine" apart from the mark as shown.

Particular description of goods.—Tonic For Use Upon the Scalp or Skin.

Claims use since Oct. 10, 1922.

Ser. No. 171,192. (CLASS 37. PAPER AND STATIONERY.) WORTENDYKE MANUFACTURING CO., Richmond, Va. Filed Oct. 25, 1922.

SOVEREIGN

Particular description of goods.—Toilet Paper and Paper Towels.
Claims use since Oct. 1, 1922.

Ser. No. 171,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED D. BURHOP, doing business as Mell-O Packing Company, Yonkers, N. Y. Filed Oct. 25, 1922.

M E L L - O

Particular description of goods.—Aging and Softening Chemical Powder for Liquors.
Claims use since Sept. 3, 1922.

Ser. No. 171,209. (CLASS 39. CLOTHING.) DISNEY HATS, New York, N. Y. Filed Oct. 26, 1922. Under ten-year proviso.

QUALITY SUPERFINE
DISNEY
NEW YORK

Particular description of goods.—Hats and Caps.
Claims use since the year 1892.

Ser. No. 171,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MME. BERTHA M. HICKS MANUFACTURING CO., Indianapolis, Ind. Filed Oct. 30, 1922.

EUROPEAN

No claim is made to words "European Hair Grower" set forth in the drawing for trade-mark, filed in the United States Patent Office. The individual whose portrait is set forth in the drawing is named Bertha M. Hicks, the person who has applied for said trade-mark.
Particular description of goods.—Hair Growers, Liquid Hair Tonic, Tetter Salve, Shampoo Paste, Face Cream, Pressing Oil, and Temple Grower.
Claims use since July 1, 1919.

Ser. No. 171,440. (CLASS 37. PAPER AND STATIONERY.) THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Nov. 1, 1922.

Micro-fine

Particular description of goods.—Crayons, Chalks, and Pencils.
Claims use since Sept. 19, 1922.

Ser. No. 171,584. (CLASS 15. OILS AND GREASES.) DONALD J. LOWRY, Pasadena, Calif. Filed Nov. 4, 1922.

SQUEEK-O

Particular description of goods.—Lubricating Oil and Grease.
Claims use since Oct. 10, 1922.

Ser. No. 171,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Nov. 4, 1922.

ALKANITE

Particular description of goods.—Suppurative Medicinal Powder.
Claims use since Oct. 13, 1921.

Ser. No. 171,719. (CLASS 15. OILS AND GREASES.) THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Nov. 8, 1922.

FLUSHO

Particular description of goods.—Crank-Case-Flushing Oil.
Claims use since December, 1921.

Ser. No. 171,729. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DEVOTO Y CAUCHANER, Buenos Aires, Argentina. Filed Nov. 8, 1922.

PULOIL

The trade-mark consists of the invented word "Puloil."
Particular description of goods.—Soaps, Pastes, Powders, and Liquids for Cleaning Metal, Wood, Leather, and Clothing.
Claims use since July 31, 1919.

Ser. No. 171,883. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NORTH AMERICAN FUR DYEING COMPANY, Newark N. J. Filed Nov. 13, 1922.

NORTH AMERICAN SEAL
MADE IN U.S.A.

No claim is made to the words "North American Seal" or the words "Made in U. S. A." apart from the mark shown on the drawing.
Particular description of goods.—Fur Skins.
Claims use since Apr. 1, 1922.

Ser. No. 171,908. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY MICHAEL DONAHUE, doing business as Hoyt Apothecaries Co., San Francisco, Calif. Filed Nov. 13, 1922.

Hoyton's

Particular description of goods.—Mouth Wash.
Claims use since Jan. 1, 1906.

Ser. No. 172,045. (CLASS 2. RECEPTACLES.) FRANK P. HUDNALL, Manchester, Ohio. Filed Nov. 15, 1922.

SAN-TO-DENT

Particular description of goods.—Toilet Packages Designed for Containing Tooth Brush, Paste, and Powder.
Claims use since Oct. 20, 1922.

Ser. No. 172,046. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHNS-MANVILLE, INCORPORATED, New York, N. Y. Filed Nov. 15, 1922.

XX

Particular description of goods.—Brake Lining.
Claims use since first day of October, 1916.

Ser. No. 172,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENTON HOLLADAY & CO., New York, N. Y. Filed Nov. 7, 1922.

Holladay's
BLACK-ART

Particular description of goods.—Oil Leather Dye.
Claims use since 1901.

Ser. No. 172,200. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CALHOUN, ROBBINS & Co., New York, N. Y. Filed Nov. 18, 1922.



Particular description of goods.—Face Cloths, Dishcloths, Floorcloths and Washrags, All of Textile Material; Cambric Scarfs and Shams, Pillowcases, Embroidery Ribbon in the Piece, Doilies, Lace Door Panels, Lace Covers, Ruffling for Pillows, Tablecloths, Embroideries in the Piece, Towels of Textile Material, Laces, Tidies, Tailors' Canvas, Linen Canvas, Cotton Canvas, Crinoline, Buckram in the Piece, Sateen Piece Goods, Taffeta Skirt Linings, Serge Piece Goods, Haircloth in the Piece, Mosquito Nettings, Hair Nets, Linen Piece Goods, Crepe in the Piece, Cotton Piece Goods, Long Cloth in the Piece, Poplins, Buntings in the Piece, Muslins, Fish Net in the Piece, Curtain Net in the Piece, Silk Ribbons, Satin Ribbons, Taffeta Ribbons, Silk Piece Goods, Satin Piece Goods, Velvet Piece Goods, Velveteen in the Piece, Velvet and Velveteen Ribbons.
Claims use since July 1, 1890.

Ser. No. 172,260. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) DOSCAT TIRE & RUBBER CORPORATION, Rochester, N. Y. Filed Nov. 20, 1922.

DOSCAT

Particular description of goods.—Rubber Tires.
Claims use since Mar. 12, 1922.

Ser. No. 172,277. (CLASS 33. GLASSWARE.) JEANNETTE GLASS COMPANY, Jeannette, Pa. Filed Nov. 20, 1922.

FLINTEX

Particular description of goods.—Glass Plates, Dishes, Bowls, Nappies, Jars, Jugs, Pitchers, Condiment and Spice Containers and Dispensers, Glasses, Tumblers, Goblets, Vases, Crocks, Butter and Food Boxes, Fruit Reamers, Trays, Stands, Toilet Sets, Pin Trays, Caster Cups, Comports, Sherbets, and Automobile Headlight Lenses.
Claims use since Jan. 3, 1921.

Ser. No. 172,331. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WILLIAM C. GREENE COMPANY, Providence, R. I. Filed Nov. 21, 1922.



Particular description of goods.—Pins, Buckles, Clasps, Buttons, Watch Chains, Neck Chains, Wrist Chains, Eyeglass Chains, and Key Chains, All Made of or Plated with Precious Metal; Brooches, Ear Attachments, Finger Rings, Crosses, Charms, Lavallières, and Cuff Links.
Claims use since June, 1913.

Ser. No. 172,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEIL E. MORGAN, Ogdensburg, N. Y. Filed Nov. 22, 1922.

C-EM-DIE

Particular description of goods.—Housefly Killer, a Liquid Roach Killer, a Liquid Mosquito Killer and Repellant, a Cattle Fly, Lice, and Mite Killer, and a Moth Killer.
Claims use since Nov. 14, 1922.

Ser. No. 172,472. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Nov. 24, 1922.

TAXICORD

Particular description of goods.—Pneumatic Tire Casings Made of Rubber Combined with Fabric.
Claims use since about October, 1922.

Ser. No. 172,475. (CLASS 43. THREAD AND YARN.) WM. H. HORSTMANN COMPANY, Philadephia, Pa. Filed Nov. 24, 1922.

Silver Crepe Yarn

No claim being made to the word "Yarn" apart from the mark as shown.
Particular description of goods.—Yarn.
Claims use since Nov. 1, 1922.

Ser. No. 172,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. C. KING, Scott City, Kans. Filed Nov. 24, 1922.

KING'S

Wm C King

The name appearing on the drawing and in the mark is a facsimile of applicant's signature.
Particular description of goods.—Medicine for the Treatment of Tuberculosis, Chronic Coughs, Colds, Asthma, and Sore Lungs.
Claims use since on or about November, 1921.

Ser. No. 172,538. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) INDIANAPOLIS TENT & AWNING COMPANY, Indianapolis, Ind. Filed Nov. 25, 1922. Under ten-year proviso.

"WE FOOL THE SUN"

Particular description of goods.—Awnings and Tarpaulins.
Claims use since July, 1893.

Ser. No. 172,552. (CLASS 15. OILS AND GREASES.) PANHARD OIL CORPORATION, Carlstadt, N. J., and New York, N. Y. Filed Nov. 25, 1922.

PANHARD

Particular description of goods.—Lubricating Oils and Greases.
Claims use since November, 1904.

Ser. No. 172,561. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SIMSON & FREY, INC., New York, N. Y. Filed Nov. 25, 1922.

WONDERTONE

Particular description of goods.—Strings for Violins and Similar Musical Instruments.
Claims use since Oct. 21, 1922.

Ser. No. 172,593. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREW H. HINKSON, doing business as Shults Ointment Company, Chester, Pa. Filed Nov. 27, 1922.



No claim being made to the words "Infallible" and "Trade-Mark" apart from the mark as shown.
Particular description of goods.—Ointments Used as an External Application for Swellings, Sores, Bruises, Burns, and Skin Diseases of Man or Beast, and Liniments Used for the Relief of Pain, Inflammation, Soreness, Aches, Rheumatism, Neuralgia, Stiffness, and Bruises.
Claims use since 1870.

Ser. No. 172,597. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) KALES STAMPING COMPANY, Detroit, Mich. Filed Nov. 27, 1922.



Particular description of goods.—Mirrors for Motor Vehicles.
Claims use since Nov. 11, 1922.

Ser. No. 172,662. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE CODE, Boston, Mass. Filed Nov. 29, 1922.

LIQUIDTONE

Particular description of goods.—A Tonic to Assist the Digestion of Food in the Stomach by the Introduction of a Proper Amount of Chemicals to Facilitate Oxidation of Vegetable Matter in the Food.
Claims use since Oct. 1, 1920.

Ser. No. 172,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAUGHERTY & JACKSON, Seymour, Tex. Filed Nov. 29, 1922.



The portrait is that of Dr. J. A. Barbee.
Particular description of goods.—Pyorrhea Remedy.
Claims use since about July 1, 1922.

Ser. No. 172,678. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IDEAL ROLLER & MANUFACTURING CO., INC., Chicago, Ill. Filed Nov. 29, 1922.

GRAPHIC

Particular description of goods.—Rollers for Printing Presses, Lithographic Presses, Hectograph Masses, and Similar Devices Where Ink, Either for Writing or Printing, is Transmitted.
Claims use since Oct. 1, 1921.

Ser. No. 172,691. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Nov. 29, 1922.

SOLITE

Particular description of goods.—Gasoline.
Claims use since Oct. 15, 1922.

Ser. No. 172,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM & STRAUS, INC., New York, N. Y. Filed Dec. 2, 1922.

ALCO-GLOW

Particular description of goods.—Lotions for External Applications to the Body.
Claims use since Oct. 11, 1922.

Ser. No. 172,830. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLE B. FINLAYSON, doing business as Eastall Company, New York, N. Y. Filed Dec. 2, 1922.

CREMILKO

Particular description of goods.—Antiseptic Lotion for the Treatment of the Scalp and Skin.
Claims use since Nov. 29, 1922.

Ser. No. 172,880. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 4, 1922.

MARTHA WASHINGTON



The picture in the drawing being that of Martha Washington, deceased.
Particular description of goods.—Jar Rubbers.
Claims use since 1913.

Ser. No. 172,929. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BALTIMORE OPTICAL COMPANY, Baltimore, Md. Filed Dec. 5, 1922.

Worthmore

Hy-Rex

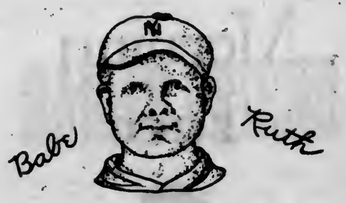
Particular description of goods.—Lenses and Frames for Eyeglasses and Spectacles.
Claims use since June 1, 1919.

Ser. No. 172,936. (CLASS 2. RECEPTACLES.) FRANCIS X. EBERLE, Los Angeles, Calif. Filed Dec. 5, 1922.

LABELOK

Particular description of goods.—Containers Made of Wood or Metal for Merchandise.
Claims use since Dec. 1, 1921.

Ser. No. 172,944. (CLASS 39. CLOTHING.) HARRIS SUSPENDER COMPANY, New York, N. Y. Filed Dec. 5, 1922.



The trade-mark consists of a portrait of "Babe" Ruth and his facsimile signature.
Particular description of goods.—Apparel Belts.
Claims use since May 18, 1922.

Ser. No. 172,986. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Dec. 6, 1922.

CHROMOXANE

Particular description of goods.—Dyes and Dyestuffs.
Claims use since about November, 1909.

Ser. No. 173,010. (CLASS 2. RECEPTACLES.) BERTIE S. SCHWED, Far Rockaway, N. Y. Filed Dec. 6, 1922.

JUST SEW

Particular description of goods.—Sewing Case.
Claims use since Jan. 1, 1922.

Ser. No. 173,072. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHAPLIN CLASSICS INC., New York, N. Y. Filed Dec. 8, 1922.



Particular description of goods.—Motion Pictures.
Claims use since October, 1919.

Ser. No. 173,101. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOSER & CO., INC., New York, N. Y. Filed Dec. 8, 1922.

PANCREON

Particular description of goods.—Bating Material Used in Tanning Leather.
Claims use since Aug. 1, 1921.

Ser. No. 173,201. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, New York and New Brighton, N. Y. Filed Dec. 11, 1922.

MURALO

Particular description of goods.—Wall Size in Dry Powder Form.
Claims use since July 1, 1919.

Ser. No. 173,269. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 13, 1922.

Everjet

Particular description of goods.—Ready-Mixed Paint and Paint Thinner.
Claims use since about 1910.

Ser. No. 173,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE H. WEYER, St. Joseph, Mo. Filed Dec. 13, 1922.

POM-PO-LAY

Particular description of goods.—Chemical Preparation Suitable for the Treatment of Hair.
Claims use since Oct. 16, 1922.

Ser. No. 173,345. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 15, 1922.

BLACK SHIELD

Particular description of goods.—Insulating Paper.
Claims use since about 1911.

Ser. No. 173,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y. Filed Dec. 15, 1922.

KREMOL

Particular description of goods.—White Mineral Oil for Medicinal Purposes.
Claims use since Nov. 1, 1922.

Ser. No. 173,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y. Filed Dec. 15, 1922.

MEDICOL

Particular description of goods.—White Mineral Oil for Medicinal Purposes.
Claims use since Nov. 1, 1922.

Ser. No. 173,392. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN PLATINUM WORKS, Newark, N. J. Filed Dec. 16, 1922.

ALBADOR

Particular description of goods.—Certain Gold, Platinum, Palladium, and Silver Metals and Solder, and Gold, Platinum, Palladium, and Silver Rolled Sheets and Plates.
Claims use since July 5, 1922.

Ser. No. 173,393. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IMA AULD, Dinuba, Calif. Filed Dec. 16, 1922.

Morning Face



Particular description of goods.—Face Lotions.
Claims use since Sept. 28, 1922.

Ser. No. 173,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNARD MANUFACTURING COMPANY, Superior, Nebr. Filed Dec. 16, 1922.

STOPS IT

Particular description of goods.—Toothache Medicine.
Claims use since Dec. 1, 1922.

Ser. No. 173,400. (CLASS 12. CONSTRUCTION MATERIALS.) J. H. BURTON & SONS CO. INC., New York, N. Y. Filed Dec. 16, 1922.

Madrosada

Particular description of goods.—Lumber.
Claims use since about May 20, 1922.

Ser. No. 173,422. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HENNING WENNERSTEN INCORPORATED, Chicago, Ill. Filed Dec. 16, 1922.

RADIO

The word "Brand" is disclaimed apart from the mark shown.
Particular description of goods.—Malt Extracts.
Claims use since Nov. 15, 1922.

Ser. No. 173,426. (CLASS 39. CLOTHING.) LEWIS L. KANN, doing business as Kann Manufacturing Co., New York, N. Y. Filed Dec. 16, 1922.

BABIES FRIEND

Particular description of goods.—Shoes Made of Leather and Fabric and a Combination of Said Materials.
Claims use since about July 1, 1915.

Ser. No. 173,427. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed Dec. 16, 1922.



Particular description of goods.—Hair Dressing and Dandruff Remedy.
Claims use since Nov. 23, 1922.

Ser. No. 173,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed Dec. 16, 1922.

FIX-A-GLOSS

Particular description of goods.—Hair Dressing and Dandruff Remedy.
Claims use since Nov. 23, 1922.

Ser. No. 173,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ LABORATORIES, INC., New York, N. Y. Filed Dec. 16, 1922.

ALUMNOL

Particular description of goods.—Astringents and Mild Antiseptics.
Claims use since 1905.

Ser. No. 173,460. (CLASS 39. CLOTHING.) T. D. BARRY COMPANY, Brockton, Mass. Filed Dec. 18, 1922.

POS-TIV-EZE

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Oct. 19, 1922.

Ser. No. 173,463. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CAPITOLA TONIC COMB CO., New York, N. Y. Filed Dec. 18, 1922.

Capitola

Particular description of goods.—Fountain Combs Capable of Containing a Liquid for Passage Through the Hair.
Claims use since February, 1912.

Ser. No. 173,480. (CLASS 39. CLOTHING.) FIEBRICH-FOX-HILKER SHOE COMPANY, Racine, Wis. Filed Dec. 18, 1922.

Stantest

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Aug. 18, 1922.

Ser. No. 173,481. (CLASS 39. CLOTHING.) FIEBRICH-FOX-HILKER SHOE COMPANY, Racine, Wis. Filed Dec. 18, 1922.

LAKE SHORE

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Aug. 18, 1922.

Ser. No. 173,520. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MIAMI MANUFACTURING CO., Miami, Fla. Filed Dec. 18, 1922.

Miamadjuster.

Particular description of goods.—Casement-Window Adjusters.
Claims use since July 1, 1922.

Ser. No. 173,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUST MICHEL, Elberta, Ala. Filed Dec. 18, 1922.

MICHLINA

Particular description of goods.—Healing Salve to Relieve Sore and Calloused Feet.
Claims use since May 15, 1920.

Ser. No. 173,539. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SNAPPY SALES CO., St. Louis, Mo. Filed Dec. 18, 1922.

SNAPPY SALES CO. C S H ST. LOUIS, MO.

No claim is made to the exclusive use of the representation of the goods nor the words "St. Louis, Mo." apart from the trade-mark shown.
Particular description of goods.—Supports for Telephone Cords, Electric-Iron Cords, and the Like.
Claims use since about Dec. 9, 1922.

Ser. No. 173,554. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB W. BEHRENDT, San Francisco, Calif. Filed Dec. 19, 1922.

BEHRENDTS FORMA-ZINCOL

Particular description of goods.—Solution for the Treatment of Inflamed, Tender, or Bleeding Gums, Pyorrhea, and as a Hygienic Daily Mouth Wash and Gargle.
Claims use since 1902.

Ser. No. 173,566. (CLASS 37. PAPER AND STATIONERY.) HARLEM CARD & PAPER COMPANY, INC., New York, N. Y. Filed Dec. 19, 1922.

PUBLIC SAFETY BOND

No claim is made to the exclusive use of the word "Bond" apart from the mark as shown in the drawing.
Particular description of goods.—Writing Paper and Cardboard.
Claims use since Jan. 1, 1916.

Ser. No. 173,576. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS DE F. MUNGER, doing business as Four Way Company, Springfield, Mass. Filed Dec. 19, 1922.

FOUR WAY SWITCH PLUG RADIO 4

No claim being made to the words "Four Way Switch Plug" and "Radio" apart from the mark shown in the drawing nor to the representation of the goods.
Particular description of goods.—Telephone Plugs.
Claims use since Oct. 16, 1922.

Ser. No. 173,597. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE HENSHEL CO. INC., New York, N. Y. Filed Dec. 20, 1922.

BLUEBIRD PEARLS FOR HAPPINESS

No claim being made to the exclusive use of the word "Pearls" apart from the mark as shown on the drawing. The lining shown in the drawing indicates the color blue.
Particular description of goods.—Artificial Pearls.
Claims use since Mar. 11, 1920.

Ser. No. 173,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & CO., New York, N. Y. Filed Dec. 26, 1922.

KIRKLOW

Particular description of goods.—Ginghams in the Piece.
Claims use since Dec. 21, 1922.

Ser. No. 173,857. (CLASS 17. TOBACCO PRODUCTS.) R. C. IMPORTATION CORPORATION, New York, N. Y. Filed Dec. 26, 1922.

CARLTONIA

Particular description of goods.—Cigars, Cigarettes, and Smoking Tobacco.
Claims use since June, 1921.

Ser. No. 173,918. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DINHOFER BROS. INC., New York, N. Y. Filed Dec. 28, 1922.

DOUBLE A

Particular description of goods.—Bar Pins, Belt Buckles, Bracelets, Brooches, Neck Chains, Watch Chains, Charms, Earrings, Fobs, Hatpins, Lapel Buttons, Lavallières, Cuff Buttons, Lockets, Sautoirs, Pendants, Finger Rings, Scarf Pins, Tie Clasps, Baby Pins, Bib Holders, Barrettes, Lingerie Pins, Vanity Cases, Puff Boxes, All Made of or Plated with Precious Metal.
Claims use since the 1st day of December, 1922.

Ser. No. 173,919. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DINHOFER BROS. INC., New York, N. Y. Filed Dec. 28, 1922.

DOUBLE A

Particular description of goods.—Platinum in the Form of Bars, Sheets, Rolls, Wire, Blocks, and in Any Other Commercial Form That the Same May be Made and Sold, and Platinum Solder.
Claims use since Dec. 1, 1922.

Ser. No. 173,953. (CLASS 39. CLOTHING.) SAMUEL M. BLUMENFIELD, New York, N. Y. Filed Dec. 29, 1922.

Qualita Superiore

No claim is made to the words "Qualita Superiore," "Cap," and "Hand Tailored" apart from the mark shown on the drawing.
Particular description of goods.—Boys' and Men's Caps.
Claims use since September, 1922.

Ser. No. 173,959. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) EISELE & CO., Nashville, Tenn. Filed Dec. 29, 1922.

ECO

Particular description of goods.—Clinical Thermometers, Hypodermic Syringes, Urethral Syringes, Eye Droppers, Irrigators, Aspirators, Hypodermic Needles, Surgical Bandages, Milking Tubes, Catheters, and Surgical Needles.
Claims use since Aug. 1, 1922.

Ser. No. 173,960. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRAD CORPORATION OF AMERICA, New York, N. Y. Filed Dec. 29, 1922.

DIODE

Particular description of goods.—Vacuum Tubes.
Claims use since Dec. 10, 1922.

Ser. No. 174,001. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ENTERPRISE PAINT MFG. CO., Chicago, Ill. Filed Dec. 30, 1922.

Enter-Lac

Particular description of goods.—Ready-Mixed and Paste Paints, Varnishes, and Paint Enamels.
Claims use since 1906.

Ser. No. 174,002. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ENTERPRISE PAINT MFG. CO., Chicago, Ill. Filed Dec. 30, 1922.

WONDER WHITE

Particular description of goods.—Ready-Mixed and Paste Paints, Varnishes, and Enamel Paints.
Claims use since 1920.

Ser. No. 174,007. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAGER, CLARK & CO., New York, N. Y. Filed Dec. 30, 1922.

HACLARNY
HAGER, CLARK & CO.
EXCLUSIVE DESIGNS
LONDON SHRUNK

No claim being made to the exclusive use of the words "London Shrunk, Exclusive Designs" apart from the mark as shown on the drawing.
Particular description of goods.—Woolen Piece Goods.
Claims use since July 1, 1922.

Ser. No. 174,032. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERMAN BARCHTOLD, doing business as Rochelle Lace Works, New York, N. Y. Filed Dec. 30, 1922.

ALPTEX

Particular description of goods.—Imported Woven Fabrics.
Claims use since Jan. 1, 1922.

Ser. No. 174,037. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS SIEGBERT & BRO., New York, N. Y. Filed Dec. 30, 1922.

PICCIDAN

Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 20, 1922.

Ser. No. 174,141. (CLASS 37. PAPER AND STATIONERY.) INDEPENDENT PAPER MILLS, INC., Brooklyn, N. Y. Filed Jan. 3, 1923.

HY-G

Particular description of goods.—Paper Towels, Paper Napkins.
Claims use since Dec. 14, 1922.

Ser. No. 174,153. (CLASS 20. LINOLEUM AND OILED CLOTH.) SALEM MANUFACTURING COMPANY, doing business as Texoleum Company, Salem, N. J., and New York, N. Y. Filed Jan. 3, 1923.

TEX-TILO

Particular description of goods.—Floor Coverings Consisting Generally of a Felt Base and Having Painted Surfaces.
Claims use since December, 1922.

Ser. No. 174,165. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. M. BIGGAR & CO., New York, N. Y. Filed Jan. 4, 1923.

PACO

Particular description of goods.—Worsted Piece Goods.
Claims use since Oct. 1, 1922.

Ser. No. 174,271. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) E. STEBBINS MANUFACTURING COMPANY, Springfield, Mass. Filed Jan. 6, 1923.

KWIKCO

Particular description of goods.—Quick-Compression Bibs.
Claims use since Dec. 26, 1922.

Ser. No. 174,336. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) REPUBLIC PHOTOGRAPHIC CORPORATION, Ferguson, Mo. Filed Jan. 8, 1923.



The name "Bentzen" being produced in facsimile of the signature of Mr. Theobald Bentzen.
Particular description of goods.—Sensitized Photographic Paper.
Claims use since Oct. 15, 1922.

Ser. No. 174,388. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT E. GOLL, doing business as European Radio Company, New York, N. Y. Filed Jan. 10, 1923.

"EURACO"

The trade-mark consists of the name "Euraco."
Particular description of goods.—Radio Equipment, Specifically Condensers, Grid Leaks, and Condenser Mountings.
Claims use since Nov. 1, 1921.

Ser. No. 174,389. (CLASS 39. CLOTHING.) HANOVER-HALL COMPANY, New York, N. Y. Filed Jan. 10, 1923.

SOFTEX

Particular description of goods.—Men's Felt, Straw, Cloth, and Silk Hats and Caps.
Claims use since Sept. 1, 1922.

Ser. No. 174,432. (CLASS 17. TOBACCO PRODUCTS.) CIRILO FERNANDEZ, Milwaukee, Wis. Filed Jan. 11, 1923.

Flor de
CIRILO

Particular description of goods.—Cigars, Cheroots, and Cigarettes.
Claims use since Feb. 9, 1917.

Ser. No. 174,559. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE COLLINS COMPANY, Collinsville, Conn. Filed Jan. 18, 1923.

DYNAMICUT

Particular description of goods.—Pickaxes, Crowbars, Wrenches, Tercados, Mattocks, Cavadores, Picks, Axes, Chisels, Lanzas, Barretones, Hoes, Hatchets, Knives, Lancitas, Earth and Rock Drills, Tarpalas, Mill Picks, Adzes, Swords, Arpones, Palas, Sledges, Bush Hooks, Sickles, Augers, Shovels, Hammers, Saws, Jincolas, Boring Bits, Spades, Wedges, Machetes, Barras.
Claims use since 1890.

Ser. No. 174,562. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DOEHLER DIE-CASTING CO., Brooklyn, N. Y. Filed Jan. 13, 1923.

NI-CHRO-ZINK

Particular description of goods.—Die-Casting Metal and Die Castings.
Claims use since Jan. 5, 1923.

Ser. No. 174,570. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE G. C. A. MANUFACTURING COMPANY, Pittsfield, Mass. Filed Jan. 13, 1923.



Particular description of goods.—Apparatus for Installing and Removing Electric-Light Bulbs, Lamp Sockets, Lamp Bases, and Fuse Plugs.
Claims use since on or about Jan. 1, 1923.

Ser. No. 174,604. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BAKER PAINT & VARNISH CO., Jersey City, N. J. Filed Jan. 15, 1923.

LUXOLIN

Particular description of goods.—Paint Enamels.
Claims use since February, 1922.

Ser. No. 174,605. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BAKER PAINT & VARNISH CO., Jersey City, N. J. Filed Jan. 15, 1923. Under ten-year proviso.

BAKER'S

Particular description of goods.—Dry, Paste, or Ready-Mixed Paints, Varnishes, Putties, Dry Colors, White Lead in Oil, Paint Enamels, Fillers, Roofing Paints, Varnish Stains.
Claims use since 1886.

Ser. No. 174,614. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE FAIR, Chicago, Ill. Filed Jan. 15, 1923.

KLEEN-WHITE

Particular description of goods.—Laundry Washing Machines.
Claims use since on or about Dec. 21, 1921.

Ser. No. 174,618. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923.

AMBULANCE

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Apr. 29, 1918.

Ser. No. 174,620. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923.

LANCET

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 22, 1918.

Ser. No. 174,622. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923.

The Racer

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 22, 1918.

Ser. No. 174,623. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923.

ROXANE

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 22, 1918.

Ser. No. 174,624. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923.

VANITY

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 22, 1918.

Ser. No. 174,684. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ADVANCE MANUFACTURING CO., St. Louis, Mo. Filed Jan. 17, 1923.

SADDLEKICK

Particular description of goods.—Two-Wheeled Children's Coaster Vehicles.
Claims use since Oct. 11, 1922.

Ser. No. 174,758. (CLASS 2. RECEPTACLES.) TINGUE, BROWN & CO., New York, N. Y. Filed Jan. 18, 1923.

DECKOLOR

Particular description of goods.—Laundry Bags.
Claims use since Apr. 1, 1922.

Ser. No. 174,772. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GLOBE WIRE CO., Sharpsburg, Pa. Filed Jan. 19, 1923.

PLANET

Particular description of goods.—Steel Rods.
Claims use since Oct. 6, 1919.

Ser. No. 174,813. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ASBESTOS AND ALLIED PRODUCTS CO., New York, N. Y. Filed Jan. 20, 1923.

WEARBESTOS

Particular description of goods.—Asbestos Brake Lining and Clutch-Disk Facing.
Claims use since Apr. 1, 1922.

Ser. No. 174,898. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif. Filed Jan. 22, 1923.



No claim is made to the words "Soy Muy Bueno" apart from the trade-mark shown.
Particular description of goods.—Textile Fabrics Consisting of Cotton Piece Goods.
Claims use since 1916.

Ser. No. 174,962. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) W. WESLEY HICKS, San Francisco, Calif. Filed Jan. 23, 1922.

WESIX

Particular description of goods.—Electric Water Heaters, Including Circulation, Immersion, and Special Types; Electric Air Heaters, Including Radiant, Radiant Floor and Wall Type Heaters; Electric Heating Units for Grills, Electric Hot Plates, Thermostats, Electric Steam Boilers.
Claims use since Feb. 8, 1919.

Ser. No. 175,124. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. & CHAS. BECK, INC., Lawrence, Mass. Filed Jan. 26, 1923.

ALENCO

Particular description of goods.—Cotton Fire Hose.
Claims use since 1898.

Ser. No. 175,320. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) NEW YORK BELTING AND PACKING COMPANY, New York, N. Y. Filed Jan. 30, 1923.

ARIMEX

Particular description of goods.—Belting Made of Rubber and Fabric.
Claims use since Oct. 14, 1922.

Ser. No. 175,322. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) NEW YORK BELTING AND PACKING COMPANY, New York, N. Y. Filed Jan. 30, 1923.

INSPIRATION

Particular description of goods.—Belting Made of Rubber and Fabric.
Claims use since Oct. 17, 1922.

Ser. No. 175,328. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ARTHUR P. SCRIPTURE, New York, N. Y. Filed Jan. 30, 1923.

A.P.S.

Particular description of goods.—Steel Bars and Billets.
Claims use since Jan. 17, 1923.

Ser. No. 175,473. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Feb. 3, 1923.

"CREPE TABARIN"

The word "Crepe" is disclaimed apart from the trade-mark as shown in the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since June 15, 1922.

Ser. No. 175,482. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Feb. 3, 1923.

Suvretta

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 15, 1923.

Ser. No. 175,487. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES W. GRANT, doing business as C. W. Grant Co., Seattle, Wash. Filed Feb. 3, 1923.

BEE-GEE

Particular description of goods.—Paint and Varnish Remover.
Claims use since Jan. 15, 1923.

Ser. No. 175,508. (CLASS 39. CLOTHING.) THE MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed Feb. 3, 1923.

MUNSING Wear

Particular description of goods.—Underwear, Knit or Woven, and Hosiery for Men, Women, and Children.
Claims use since Jan. 22, 1923.

Ser. No. 175,509. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN & COHEN CO., INC., New York, N. Y. Filed Feb. 3, 1923.

"Ritzy"

Particular description of goods.—Cotton Goods in the Piece.
Claims use since Jan. 23, 1923.

Ser. No. 175,517. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Feb. 3, 1923.

Mimax

Particular description of goods.—Varnish.
Claims use since the 3d day of January, 1923.

Ser. No. 175,529. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) J. ELMER SMITH, doing business as Claresa Chemical Works, Irwin, Pa. Filed Feb. 3, 1923.

CLARESA



Particular description of goods.—Furniture Polish.
Claims use since July 26, 1922.

Ser. No. 175,589. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GLOBE RUBBER TIRE MANUFACTURING CO., Trenton, N. J. Filed Feb. 5, 1923.

GOTHAM

Particular description of goods.—Nonmetallic Pneumatic Tires and Inner Tubes.
Claims use since Dec. 26, 1922.

Ser. No. 175,662. (CLASS 37. PAPER AND STATIONERY.) KIMBERLY-CLARK COMPANY, Neenah, Wis. Filed Feb. 7, 1923.

HYLO M.F.

Particular description of goods.—Book Papers.
Claims use since Jan. 1, 1915.

Ser. No. 175,663. (CLASS 37. PAPER AND STATIONERY.) KIMBERLY-CLARK COMPANY, Neenah, Wis. Filed Feb. 7, 1923.

PRIMO M. F.

Particular description of goods.—Book Papers.
Claims use since Jan. 1, 1915.

Ser. No. 175,664. (CLASS 37. PAPER AND STATIONERY.) KIMBERLY-CLARK COMPANY, Neenah, Wis. Filed Feb. 7, 1923.

ROTO M.F.

Particular description of goods.—Book Papers.
Claims use since Jan. 1, 1915.

Ser. No. 175,677. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Feb. 7, 1923.

P. M. L.

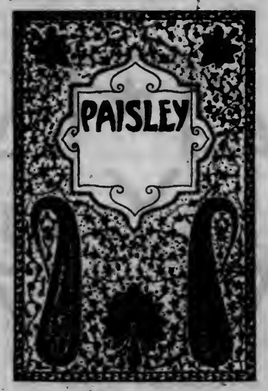
Particular description of goods.—Cotton Piece Goods.
Claims use since October, 1882.

Ser. No. 175,696. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE W. V-B. AMES COMPANY, Fremont, Ohio. Filed Feb. 8, 1923. Under ten-year proviso.

AMES'

Particular description of goods.—Dental Cement, Such as Crown and Bridge Cement, Inlay Cement, Oxyphosphate of Copper, Berylite, Oxychloride of Zinc, Copper Amalgam, Pigments, and Temporary Cement.
Claims use since 1893.

Ser. No. 175,706. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed Feb. 8, 1923.



Particular description of goods.—Paper for Writing and Printing Purposes, Drawing Paper, Pencil Paper, Envelopes for Correspondence, Writing Tablets, Pencil Tablets, Drawing Tablets, Spelling Tablets, Blank Books, and Papeteries.
Claims use since Jan. 31, 1923.

Ser. No. 175,710. (CLASS 15. OILS AND GREASES.) CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Feb. 8, 1923.

GLYFITE

Particular description of goods.—Lubricants Particularly Intended for Use in Refrigerating Machines.
Claims use since Feb. 1, 1923.

Ser. No. 175,749. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Feb. 8, 1923.

Kerryvale

Particular description of goods.—Papeteries, Writing and Typewriting Tablets, Writing Paper in Reams, Pounds, and Other Packages, and Mailing Envelopes.
Claims use since Oct. 23, 1922.

Ser. No. 175,786. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. G. GUERRA CO. INC., New York, N. Y. Filed Feb. 9, 1923.

Guerrany

Particular description of goods.—Table and Bed Linen, Including Tablecloths, Table Covers, Luncheon Sets, Napkins, Doilies, and Scarfs; Sheets, Pillowcases and Pillow Covers, Handkerchiefs, Towels, Curtains, and Curtain Panels.
Claims use since Sept. 1, 1922.

Ser. No. 175,829. (CLASS 20. LINOLEUM AND OILED CLOTH.) JULIUS WILE SONS & CO., New York, N. Y. Filed Feb. 9, 1923.

WILWIN

Particular description of goods.—Oilcloth.
Claims use since June 28, 1922.

Ser. No. 175,959. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Feb. 12, 1923.

ARGON

Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixtures of Other Materials, for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust Preventing, Surface Preserving, and Tempering.
Claims use since 1890.

Ser. No. 175,960. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Feb. 12, 1923.

ARGONITE

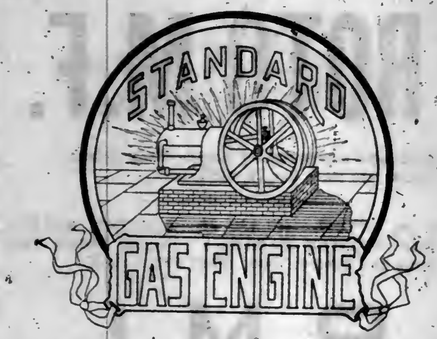
Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixtures of Other Materials, for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust Preventing, Surface Preserving, and Tempering.
Claims use since 1893.

Ser. No. 175,965. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Feb. 12, 1923.

KEARSARGE

Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixtures of Other Materials, for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust Preventing, Surface Preserving, and Tempering.
Claims use since 1900.

Ser. No. 175,968. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Feb. 12, 1923. Under ten-year proviso.



Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixtures of Other Materials, for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust Preventing, Surface Preserving, and Tempering.
Claims use since 1890.

Ser. No. 176,028. (CLASS 37. PAPER AND STATIONERY.) E. E. LLOYD PAPER COMPANY, Chicago, Ill. Filed Feb. 14, 1923.

Postex

Particular description of goods.—Writing Paper.
Claims use since about the 22d day of January, 1923.

Ser. No. 176,186. (CLASS 2. RECEPTACLES.) INDEPENDENT PAPER MILLS, INC., Brooklyn, N. Y. Filed Feb. 17, 1923.



Particular description of goods.—Dispensing Devices for Paper Towels, Paper Napkins, or Similar Products.
Claims use since Dec. 14, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 3, 1923.

166,340. SAFETY STRAPS TO HOLD CHILDREN IN HIGH CHAIRS, GOCARTS, CARRIAGES, AND OTHER VEHICLES FOR CHILDREN'S USE. THE MARATHON COMPANY, Cuyahoga Falls, Ohio.
Filed April 10, 1922. Serial No. 162,027. PUBLISHED JANUARY 9, 1923.

166,341. BACON, HAM, BOILED HAM, SUGAR-CURED MEATS. EAST TENNESSEE PACKING COMPANY, Knoxville, Tenn.
Filed April 1, 1922. Serial No. 161,622. PUBLISHED JANUARY 9, 1923.

166,342. COOKED CORN BEEF. VIRDEN PACKING COMPANY, South San Francisco and Oakland, Calif.
Filed March 23, 1922. Serial No. 161,161. PUBLISHED JANUARY 9, 1923.

166,343. CANDY. THE BONITA COMPANY, Fond du Lac, Wis.
Filed March 18, 1922. Serial No. 160,856. PUBLISHED JANUARY 9, 1923.

166,344. RADIO APPARATUS—NAMELY, COMPLETE RECEIVING SETS AND PARTS THEREOF. DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, New York, N. Y.
Filed February 28, 1922. Serial No. 159,955. PUBLISHED JANUARY 9, 1923.

166,345. CERTAIN NAMED PETROLEUM PRODUCTS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed February 25, 1922. Serial No. 159,816. PUBLISHED JANUARY 9, 1923.

166,346. HAMS. HICKORY HILL FARM, Jefferson City, Mo.
Filed January 23, 1922. Serial No. 158,311. PUBLISHED JANUARY 16, 1923.

166,347. CERTAIN NAMED OILS AND GREASES. LITWOOD OIL & SUPPLY COMPANY, Fort Worth, Tex.
Filed December 28, 1921. Serial No. 157,226. PUBLISHED JANUARY 16, 1923.

166,348. ICING SUGAR. J. H. WOODWARD COMPANY, Minneapolis, Minn.
Filed November 21, 1921. Serial No. 155,726. PUBLISHED JANUARY 9, 1923.

166,349. RUB VARNISH, A VARNISH APPLIED LIKE AN OIL POLISH. MOORE & KELLAR, Azusa, Calif.
Filed September 12, 1921. Serial No. 152,857. PUBLISHED JANUARY 9, 1923.

166,350. MAYONNAISE DRESSING, JAMS, AND JELLIES. TEA ROSE CORPORATION, Brooklyn, N. Y.
Filed October 21, 1920. Serial No. 138,657. PUBLISHED JANUARY 9, 1923.

166,351. CERTAIN NAMED OILS AND GREASES. OWENWOOD OIL CORPORATION, Wilmington, Del., and Fort Worth, Tex.
Filed December 11, 1920. Serial No. 140,959. PUBLISHED JANUARY 9, 1923.

166,352. CANDY. CHARTER CHOCOLATE COMPANY, Boston, Mass.
Filed December 28, 1920. Serial No. 141,556. PUBLISHED JANUARY 9, 1923.

166,353. VAPORIZING DEVICES FOR ENGINES. PENBERTHY INJECTOR COMPANY, Detroit, Mich.
Filed April 14, 1921. Serial No. 146,182. PUBLISHED JANUARY 2, 1923.

166,354. MOTION PICTURES REPRODUCED IN COPIES FOR SALE. C. L. CHESTER PRODUCTIONS, INC., Hollywood, Calif., assignor to Globe Trots Films, Inc., New York, N. Y., a Corporation of New York.
Filed April 25, 1921. Serial No. 146,692. PUBLISHED DECEMBER 26, 1922.

166,355. COMBINATION STEEL AND ELASTIC TRUSSES. WOODARD, CLARKE & CO., Portland, Oreg.
Filed May 3, 1921. Serial No. 147,174. PUBLISHED JANUARY 9, 1923.

166,356. ELECTRIC BATTERIES. THE CINCINNATI STORAGE BATTERY COMPANY, Cincinnati, Ohio.
Filed June 10, 1921. Serial No. 148,958½. PUBLISHED JANUARY 16, 1923.

166,357. WATER-COLOR PAINTS IN FORM OF PASTE, POWDER, OR LIQUIDS. SOCIÉTÉ DES PEINTURES ÉCONOMIQUES "FIXALO," Marseille, France.
Filed June 14, 1921. Serial No. 149,149. PUBLISHED JANUARY 9, 1923.

166,358. NONCORRODING AND NONRUSTING ALLOYS, ROLLED PLATES AND SHEETS OF SUCH ALLOYS, AND LOUVERS AND TROUGHS FOR COOLING TOWERS MADE THEREFROM. EDWIN BURHORN CO., New York, N. Y.
Filed June 16, 1921. Serial No. 149,210. PUBLISHED JANUARY 2, 1923.

166,359. CANDY. ALPINE CHOCOLATES COMPANY, Boston, Mass.
Filed September 2, 1921. Serial No. 152,666. PUBLISHED JANUARY 16, 1923.

166,360. LUBRICATING AND CUTTING OILS AND GREASES. FRONTIER MANUFACTURING COMPANY, North Tonawanda, N. Y.
Filed October 18, 1922. Serial No. 170,878. PUBLISHED DECEMBER 19, 1922.

166,361. STEEL PENS. JOHAN ALLING, Stockholm, Sweden.
Filed October 11, 1922. Serial No. 170,601. PUBLISHED DECEMBER 5, 1922.

166,362. HORSE BLANKETS. GLIMMERGLEN FARMS, INC., Cooperstown and New York, N. Y.
Filed October 10, 1922. Serial No. 170,525. PUBLISHED DECEMBER 19, 1922.

166,363. NOSE ADJUSTERS. ANNA D. ROSTOW, doing business as The Anita Company, Newark, N. J.
Filed October 9, 1922. Serial No. 170,507. PUBLISHED DECEMBER 19, 1922.

166,364. PAPER WRAPPERS FOR FRUIT. NASHUA GUMMED & COATED PAPER COMPANY, Nashua, N. H.
Filed October 3, 1922. Serial No. 170,254. PUBLISHED NOVEMBER 28, 1922.

166,365. TOILET PAPER. INLANDER-STEINDLER PAPER COMPANY, Chicago, Ill.
Filed September 30, 1922. Serial No. 170,141. PUBLISHED NOVEMBER 14, 1922.

166,366. TABLETS. AMERICAN TABLET CO., Green Bay, Wis.
Filed October 2, 1922. Serial No. 170,175. PUBLISHED NOVEMBER 14, 1922.

166,367. WRAPPING PAPER. INLANDER-STEINDLER PAPER COMPANY, Chicago, Ill.
Filed September 30, 1922. Serial No. 170,140. PUBLISHED NOVEMBER 28, 1922.

166,368. BOILERS, GARBAGE BURNERS, HEATERS, AND TANKS. KEWANEE BOILER COMPANY, Kewanee, Ill.
Filed September 29, 1922. Serial No. 170,070. PUBLISHED NOVEMBER 28, 1922.

166,369. SILK AND ARTIFICIAL-SILK PIECE GOODS, COTTON, WOOL, AND COMBINATIONS THEREOF. MAX FEIST, New York, N. Y.
Filed September 29, 1922. Serial No. 170,059. PUBLISHED JANUARY 9, 1923.

166,370. ALUMINUM WELDING METAL. MARSHALL METAL CORPORATION, Chicago, Ill.
Filed September 28, 1922. Serial No. 170,032. PUBLISHED DECEMBER 19, 1922.

166,371. WRITING PAPER, BOND. THE CHILLICOTHE PAPER COMPANY, Chillicothe, Ohio.
Filed September 28, 1922. Serial No. 170,005. PUBLISHED DECEMBER 5, 1922.

166,372. A POLISHING PREPARATION FOR PAINTED, VARNISHED, OR ENAMELED SURFACES, AND AUTOMOBILE BODIES, TOP, UPHOLSTERY, AND FURNITURE. "STA-RITE" MFG. CO., Asheville, N. C.
Filed September 27, 1922. Serial No. 169,988. PUBLISHED DECEMBER 5, 1922.

166,373. POLISH FOR PAINTED AND VARNISHED SURFACES. HENRY L. HUNTER & CO., Dorchester, Mass.
Filed September 27, 1922. Serial No. 169,974. PUBLISHED DECEMBER 19, 1922.

166,374. GOLD, BRONZE, AND ALUMINUM PAINTS AND FINISHING COMPOUNDS. PETER L. O'NEILL, doing business as Decorata Mfg. Co., Jersey City, N. J.
Filed September 26, 1922. Serial No. 169,959. PUBLISHED DECEMBER 5, 1922.

166,375. PIECE GOODS. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed September 22, 1922. Serial No. 169,813. PUBLISHED DECEMBER 19, 1922.

166,376. FURNITURE POLISH. THE GRADY MFG. CO., Long Island City, N. Y.
Filed September 22, 1922. Serial No. 169,806. PUBLISHED DECEMBER 5, 1922.

166,377. WRAPPING PAPER, WAXED, PARCHMENT, AND GREASEPROOF PAPER, GUMMED AND GLASSINE PAPER, TISSUE PAPER, AND BOOK AND WRITING PAPER. FRED C. STRYPE, New York, N. Y.
Filed September 21, 1922. Serial No. 169,790. PUBLISHED NOVEMBER 14, 1922.

166,378. BRASSIÈRES. THE LUCILE SOMARCO BRASSIERE, New York, N. Y.
Filed September 21, 1922. Serial No. 169,768. PUBLISHED JANUARY 2, 1923.

166,379. SHOW-CASE REFRIGERATORS. HARRY L. HUSSMANN REFRIGERATOR & SUPPLY CO., St. Louis, Mo.
Filed September 21, 1922. Serial No. 169,760. PUBLISHED NOVEMBER 7, 1922.

166,380. FERTILIZER. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y.
Filed September 21, 1922. Serial No. 169,739. PUBLISHED NOVEMBER 7, 1922.

166,381. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed September 20, 1922. Serial No. 169,701. PUBLISHED DECEMBER 19, 1922.

166,382. VARNISH. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed September 19, 1922. Serial No. 169,683. PUBLISHED DECEMBER 5, 1922.

166,383. CERTAIN NAMED RECEPTACLES. LITTLE ROCK BARREL & BOX CO., Little Rock, Ark.
Filed September 19, 1922. Serial No. 169,679. PUBLISHED DECEMBER 19, 1922.

166,384. BOND AND LEDGER PAPER FOR WRITING AND PRINTING PURPOSES. THE MIAMI PAPER COMPANY, West Carrollton, Ohio.
Filed September 18, 1922. Serial No. 169,644. PUBLISHED NOVEMBER 7, 1922.

166,385. MILK BOTTLES. ALBERT WESTLAKE, New York, N. Y.
Filed September 15, 1922. Serial No. 169,513. PUBLISHED JANUARY 9, 1923.

166,386. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., Astoria, L. I., and New York, N. Y.
Filed September 15, 1922. Serial No. 169,498. PUBLISHED DECEMBER 12, 1922.

166,387. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., Astoria, L. I., and New York, N. Y.
Filed September 15, 1922. Serial No. 169,497. PUBLISHED DECEMBER 12, 1922.

166,388. EARDRUMS. FRANCES M. WAY, doing business as George P. Way, Artificial Ear-Drum Company, Detroit, Mich.
Filed September 13, 1922. Serial No. 169,429. PUBLISHED DECEMBER 19, 1922.

166,389. BRASSIÈRES, BANDEAUX, AND CORSETS. HARRY SHAIN, doing business as Emily Brassiere Co., New York, N. Y.
Filed September 13, 1922. Serial No. 169,425. PUBLISHED DECEMBER 5, 1922.

166,390. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,416. PUBLISHED OCTOBER 24, 1922.

166,391. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,415. PUBLISHED OCTOBER 24, 1922.

166,392. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,414. PUBLISHED OCTOBER 24, 1922.

166,393. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,413. PUBLISHED OCTOBER 24, 1922.

166,394. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,412. PUBLISHED OCTOBER 24, 1922.

166,395. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,411. PUBLISHED OCTOBER 24, 1922.

166,396. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,410. PUBLISHED OCTOBER 24, 1922.

166,397. DYESTUFFS, CERTIFIED FOOD COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 13, 1922. Serial No. 169,409. PUBLISHED OCTOBER 24, 1922.

166,398. READY-MIXED AND PASTE PAINTS. INTERSTATE PAINT & SUPPLIES CO. INC., Buffalo, N. Y.
Filed September 13, 1922. Serial No. 169,402. PUBLISHED DECEMBER 19, 1922.

166,399. HEADREST PAPER. EMIL MORRIS, Detroit, Mich.
Filed September 12, 1922. Serial No. 169,370. PUBLISHED NOVEMBER 7, 1922.

166,400. RIVETS, EYELETS, LACING HOOKS, GROMMETS, WASHERS, RINGS, INDICATOR ARROWS, FERRULES FOR CANES AND THE LIKE, CHAINS, BRADS, TACKS, SCREWS, ALL MADE OF BASE METAL. EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y.
Filed May 16, 1921. Serial No. 147,814. PUBLISHED JANUARY 2, 1923.

166,401. BRASS VALVES AND COCKS, MALLEABLE-IRON PIPE FITTINGS AND CERTAIN GAS APPLIANCES. DETROIT BRASS & MALLEABLE WORKS, Detroit, Mich.
Filed October 3, 1921. Serial No. 153,649. PUBLISHED JULY 4, 1922.

166,402. WOOD AND METAL WORKING MACHINES, TOOLS, AND SUPPLIES. P. PREIBIL MACHINE COMPANY, INC., New York, N. Y.
Filed March 15, 1922. Serial No. 160,719. PUBLISHED JANUARY 2, 1923.

166,403. GALVANIZED-WIRE CLOTH. WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass.
Filed March 15, 1922. Serial No. 160,737. PUBLISHED DECEMBER 19, 1922.

166,404. COMPRESSED-AIR SPRAYING MACHINES FOR CERTAIN PURPOSES, PARTS THEREOF, ACCESSORIES THERETO, AND SUPPLIES THEREFOR. THE DE VILBISS MANUFACTURING CO., Toledo, Ohio.
Filed March 24, 1922. Serial No. 161,177. PUBLISHED JANUARY 2, 1923.

166,405. ARC-WELDING METAL ELECTRODES. INTERNATIONAL WELDING ENGINEERING CORPORATION, Chicago, Ill.
Filed April 10, 1922. Serial No. 162,011. PUBLISHED JULY 18, 1922.

166,406. HOSIERY. ROCKLAND HOSIERY MILLS, Philadelphia, Pa.
Filed June 12, 1922. Serial No. 165,415. PUBLISHED NOVEMBER 7, 1922.

166,407. SULPHOXYLATE OF ZINC FORMALDEHYDE. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed June 24, 1922. Serial No. 166,018. PUBLISHED JANUARY 2, 1923.

166,408. CERTAIN NAMED ENAMELED WARE. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed July 8, 1922. Serial No. 166,608. PUBLISHED JANUARY 2, 1923.

166,409. CLEANSER FOR WOODWORK, FURNITURE, LEATHER GOODS, AND RUGS OF ALL KINDS. HATTIE MCMULLEN, Knoxville, Tenn.
Filed July 10, 1922. Serial No. 166,697. PUBLISHED DECEMBER 12, 1922.

166,410. WASHING COMPOUNDS. THOMAS E. RIGGS, Independence, Mo.
Filed July 11, 1922. Serial No. 166,749. PUBLISHED DECEMBER 5, 1922.

166,411. PISTONS, PISTON PINS, AND SHAFTS FOR AUTOMOBILE MOTORS, AUTOMOBILE TRUCKS, AND TRACTORS AND FOR GASOLINE MOTORS. HARRY E. PENCE, doing business as Lincoln Steel Products Company, Minneapolis, Minn.
Filed July 13, 1922. Serial No. 166,850. PUBLISHED JANUARY 2, 1923.

166,412. CARTON AND BOX FILLING MACHINERY. CARTONING MACHINERY CORPORATION, Newark, N. J. and Newport, R. I.
Filed July 15, 1922. Serial No. 166,933. PUBLISHED JANUARY 2, 1923.

166,413. HOUSEHOLD, KITCHEN, AND COOKING UTENSILS MADE OF ALUMINUM. ALUMINUM COMPANY OF AMERICA, Pittsburgh and New Kensington, Pa.
Filed July 20, 1922. Serial No. 167,115. PUBLISHED JANUARY 2, 1923.

166,414. FORGINGS OF STEEL ALLOY. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed August 21, 1922. Serial No. 168,523. PUBLISHED JANUARY 2, 1923.

166,415. BOX OPENERS AND NAIL PULLERS. ALBERT SCHREM, Glengen, Germany.
Filed August 23, 1922. Serial No. 168,621. PUBLISHED DECEMBER 26, 1922.

166,416. PNEUMATIC PRESSURE SYSTEMS FOR PUMPING, STORING, AND SUPPLYING WATER OR OTHER FLUIDS; PUMPS AND FLUID-PRESSURE MOTORS, EXPLOSIVE ENGINES, AND PARTS THEREOF. THE DURO PUMP & MANUFACTURING COMPANY, Dayton, Ohio.
Filed November 6, 1922. Serial No. 171,630. PUBLISHED JANUARY 2, 1923.

166,417. COMBINED CORDS AND PLUGS USED TO CONNECT TRANSLATING DEVICES WITH LAMP SOCKETS. ALBERT E. BERDON, doing business as Aero-Kord Co., Detroit, Mich.
Filed June 19, 1922. Serial No. 165,658. PUBLISHED JANUARY 9, 1923.

166,418. CABLE CORD, MACRAME CORD, SHADE CORD, MADE FROM COTTON. JOHNSTON & CO. CABLE CORD, INC., New York, N. Y.
Filed June 17, 1922. Serial No. 165,628. PUBLISHED JANUARY 9, 1923.

166,419. CANNED VEGETABLES. SMITH-YINGLING COMPANY, Westminster, Md.
Filed June 6, 1922. Serial No. 165,091. PUBLISHED JANUARY 9, 1923.

166,420. PRESERVED FIGS. THE BECKWITH CO., Reedley, Calif.
Filed June 3, 1922. Serial No. 164,861. PUBLISHED JANUARY 9, 1923.

166,421. FRESH ORANGES, FRESH GRAPEFRUIT, FRESH TANGERINES, AND OTHER FRESH CITROUS FRUITS. JOHN CHESTER LEE, Sr., Leesburg, Fla.
Filed June 2, 1922. Serial No. 164,815. PUBLISHED JANUARY 9, 1923.

166,422. FRESH ORANGES, FRESH GRAPEFRUIT, FRESH TANGERINES, AND OTHER FRESH CITROUS FRUITS. LEESBURG PACKING HOUSE, Leesburg, Fla.
Filed June 2, 1922. Serial No. 164,813. PUBLISHED JANUARY 9, 1923.

166,423. FRESH CITROUS FRUITS. ADAM HENRY KALBFLEISCH, Mercedes, Tex.
Filed June 2, 1922. Serial No. 164,809. PUBLISHED JANUARY 9, 1923.

166,424. PETROLEUM PRODUCTS—NAMELY, GASOLINE. INTERSTATE GASOLINE CO., Wichita Falls, Tex., and New York, N. Y.
Filed June 2, 1922. Serial No. 164,807. PUBLISHED JANUARY 9, 1923.

166,425. CANNED VEGETABLES. SMITH-YINGLING COMPANY, Westminster, Md.
Filed June 1, 1922. Serial No. 164,779. PUBLISHED JANUARY 9, 1923.

166,426. COCOA. NAAMLOOZE VENNOOTSCHAP HOLLANDSCHE CACAO- EN CHOCOLADEFABRIEKEN VOORHEEN BENSDORP & CO., Amsterdam, Netherlands.
Filed June 1, 1922. Serial No. 164,767. PUBLISHED JANUARY 16, 1923.

166,427. WATERMELONS IN THEIR NATURAL STATE. SOUTHWEST GEORGIA WATERMELON GROWERS' ASSOCIATION, Adel, Ga.
Filed May 29, 1922 Serial No. 164,673. PUBLISHED JANUARY 9, 1923.

166,428. RADIO OUTFITS AND PARTS THEREOF—NAMELY, TUBE SOCKETS, VARIOMETERS, VARIABLE CONTAINERS, AMPLIFYING TRANSFORMERS, AND VARIOCOUPLER. THE AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio.
Filed May 25, 1922. Serial No. 164,488. PUBLISHED DECEMBER 26, 1922.

166,429. CANNED FRUITS. THE PRODUCERS CANNING AND PACKING COMPANY, Salem, Oreg.
Filed May 22, 1922. Serial No. 164,257. PUBLISHED JANUARY 9, 1923.

166,430. MOLDED SUGAR CANDY IN THE SHAPE OF CHICKENS, RABBITS, AND EGGS. CONSUMERS BISCUIT COMPANY, New Orleans, La.
Filed May 22, 1922. Serial No. 164,252. PUBLISHED JANUARY 9, 1923.

166,431. CANDY. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash.
Filed May 20, 1922. Serial No. 164,188. PUBLISHED DECEMBER 19, 1922.

166,432. CANDIED POP CORN AND OTHER POP-CORN CONFECTIONS. HERBERT R. BLACKFORD, Brooklyn, N. Y.
Filed May 20, 1922. Serial No. 164,153. PUBLISHED JANUARY 9, 1923.

166,433. CANDY (HAVING VERY LARGELY THE CONSISTENCY AND APPEARANCE OF ICE CREAM IN UNIT FORM.) RUSSELL S. WALTERS, doing business as R. S. Walters Co., Clinton, Iowa.
Filed May 19, 1922. Serial No. 164,140. PUBLISHED JANUARY 16, 1923.

166,434. WHITE LEAD, BOTH DRY AND IN OIL. ANACONDA LEAD PRODUCTS COMPANY, New York, N. Y.
Filed May 19, 1922. Serial No. 164,094. PUBLISHED JANUARY 9, 1923.

166,435. FRESH GRAPES. K. OKUDA, Livingston, Calif.
Filed May 18, 1922. Serial No. 164,067. PUBLISHED JANUARY 16, 1923.

166,436. AUTOMOBILE BODY HARDWARE. TRENSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed May 15, 1922. Serial No. 163,899. PUBLISHED OCTOBER 3, 1922.

166,437. CANDY. A. B. MEWHINNEY CO. INC., Terre Haute, Ind.
Filed July 15, 1922. Serial No. 166,952. PUBLISHED JANUARY 16, 1923.

166,438. COMPRESSORS AND PUMPS AND ATTACHMENTS THEREFOR. PENNSYLVANIA PUMP & COMPRESSOR CO., Easton, Pa.
Filed July 14, 1922. Serial No. 166,906. PUBLISHED JANUARY 2, 1923.

166,439. PEANUT BUTTER. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed July 14, 1922. Serial No. 166,902. PUBLISHED JANUARY 16, 1923.

166,440. POWDER FOR MAKING SCRAMBLED EGGS. NATIONAL EGG PRODUCTS COMPANY, Los Angeles, Calif.
Filed July 14, 1922. Serial No. 166,897. PUBLISHED JANUARY 16, 1923.

166,441. COFFEE IN BEVERAGE FORM. WATCHUNG SPRINGS CO., Plainfield, N. J.
Filed July 12, 1922. Serial No. 166,796. PUBLISHED JANUARY 16, 1923.

166,442. THINNING OIL. R. J. BROWN PETROLEUM COMPANY, St. Louis, Mo.
Filed July 10, 1922. Serial No. 166,646. PUBLISHED JANUARY 9, 1923.

166,443. CANNED FRUITS AND VEGETABLES. THE ACME GROCERY CO., Chicago, Ill.
Filed July 10, 1922. Serial No. 166,625. PUBLISHED JANUARY 16, 1923.

166,444. CERTAIN DESCRIBED RECEPTACLES. FRANCIS JOSEPH WALDMEYER, New York, N. Y., assignor to Art Industries, Inc., a Corporation of New York.
Filed July 6, 1922. Serial No. 166,548. PUBLISHED JANUARY 9, 1923.

166,445. ICE CREAM. ARMSTEAD M. ALEXANDER, Independence, Mo.
Filed July 5, 1922. Serial No. 166,494. PUBLISHED JANUARY 16, 1923.

166,446. PAINT AND VARNISH REMOVERS HAVING INCIDENTAL PROPERTIES AS WOOD CLEANERS. FRANK P. SCHMIDT, doing business as Contra Chemical Co., Quincy, Ill.
Filed July 1, 1922. Serial No. 166,409. PUBLISHED JANUARY 9, 1923.

166,447. RADIO RECEIVING SETS, RADIO-RECEIVING-SETS PARTS, AND RADIO-SENDING-SETS PARTS. THE RADIO ENGINEERING & SALES CO., doing business as The Resco Radio Co., Cleveland, Ohio.
Filed July 1, 1922. Serial No. 166,405. PUBLISHED JANUARY 16, 1923.

166,448. PEANUTS IN THE SHELL. JAMES E. CLANCY, Lynbrook, N. Y.
Filed July 1, 1922. Serial No. 166,346. PUBLISHED JANUARY 16, 1923.

166,449. DRY-POWDER TUBE FIRE EXTINGUISHERS. HENRY R. FREY, doing business as Chemical Fire Apparatus Company, Portland, Oreg.
Filed June 30, 1922. Serial No. 166,289. PUBLISHED JANUARY 2, 1923.

166,450. COFFEE. ALOUF BROS., Roanoke, Va.
Filed June 29, 1922. Serial No. 166,217. PUBLISHED JANUARY 16, 1923.

166,451. FRESH CITROUS FRUITS. SUNLAND PACKING HOUSE COMPANY, Porterville, Calif.
Filed June 26, 1922. Serial No. 166,106. PUBLISHED JANUARY 16, 1923.

166,452. CANNED PEELED TOMATOES, ROASTED PEPPERS, AND TOMATO SAUCE. P. PASTENE & CO., INC., Boston, Mass.
Filed June 26, 1922. Serial No. 166,095. PUBLISHED JANUARY 16, 1923.

166,453. CANNED VEGETABLES, CANNED FRUITS, AND CANNED FISH. R. E. COTTER COMPANY, San Francisco, Calif.
Filed June 26, 1922. Serial No. 166,044. PUBLISHED JANUARY 16, 1923.

166,454. OLIVE OIL. BERTINI BROS., Chicago, Ill.
Filed June 26, 1922. Serial No. 166,034. PUBLISHED JANUARY 16, 1923.

166,455. EVAPORATED APPLES. C. C. HALL, INC., Rochester, N. Y.
Filed June 24, 1922. Serial No. 165,999. PUBLISHED JANUARY 16, 1923.

166,456. COFFEE. THE FISHBACK CO., Indianapolis, Ind.
Filed June 23, 1922. Serial No. 165,920. PUBLISHED JANUARY 16, 1923.

166,457. [WITHDRAWN.]

166,458. HIP AND BUST REDUCER. BLANCHE CERVELLI, San Francisco, Calif.
Filed September 25, 1922. Serial No. 169,890. PUBLISHED JANUARY 9, 1923.

166,459. PAINT AND VARNISH REMOVER. MARSHALL & BURKE, Richmond, Calif.
Filed September 18, 1922. Serial No. 169,642. PUBLISHED JANUARY 9, 1923.

166,460. CERTAIN NAMED OILS AND GREASES. HUMBLE OIL & REFINING COMPANY, Houston, Tex.
Filed September 16, 1922. Serial No. 169,594. PUBLISHED JANUARY 9, 1923.

166,461. VARNISHES, PAINTS, BOTH READY-MIXED AND PASTE; JAPANS. N. Z. GRAVES, INCORPORATED, Philadelphia, Pa.
Filed September 16, 1922. Serial No. 169,548. PUBLISHED JANUARY 9, 1923.

166,462. [WITHDRAWN.]

166,463. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed September 11, 1922. Serial No. 169,274. PUBLISHED JANUARY 2, 1923.

166,464. ELECTROMAGNETIC TELEPHONE APPARATUS. MONARCH TELEPHONE MANUFACTURING COMPANY, Fort Dodge, Iowa.
Filed August 31, 1922. Serial No. 168,933. PUBLISHED DECEMBER 26, 1922.

166,465. COLD-WATER PAINT. THE MURALO COMPANY, New York and New Brighton, N. Y.
Filed August 30, 1922. Serial No. 168,898. PUBLISHED JANUARY 9, 1923.

166,466. LINEN SMALL WARES (NAMELY, TABLECLOTHS, NAPKINS, TOWELS, SHEETS, PILLOWCASES, TEA CLOTHS, AND BUREAU AND SIDEBOARD SCARFS), AND LINEN PIECE GOODS. YORK STREET FLAX SPINNING CO., LIMITED, Belfast, Ireland.
Filed August 29, 1922. Serial No. 168,864. PUBLISHED DECEMBER 26, 1922.

166,467. POLISHING CREAMS FOR PAINTED, VARNISHED, AND LACQUERED SURFACES, WITH INCIDENTAL PROPERTIES AS A POLISH FOR LEATHER, GLASS, AND METAL. CALLIDENDRON MFG. & CHEMICAL CORP., Brooklyn, N. Y.
Filed August 29, 1922. Serial No. 168,824. PUBLISHED JANUARY 9, 1923.

166,468. PANTOGRAPHS. THE BURDETTE-MURRAY COMPANY, Cleveland, Ohio.
Filed August 25, 1922. Serial No. 168,669. PUBLISHED JANUARY 2, 1923.

166,469. AUTOMOBILE POLISH. MAURICE W. WILLIAMS, doing business as Glendale Chemical Company, Dallas, Tex.
Filed August 24, 1922. Serial No. 168,660. PUBLISHED NOVEMBER 7, 1922.

166,470. TELEPHONE AND TELEGRAPH APPARATUS AND RADIO APPARATUS. FEDERAL TELEPHONE & TELEGRAPH CO., Buffalo, N. Y.
Filed August 11, 1922. Serial No. 168,106. PUBLISHED DECEMBER 26, 1922.

166,471. ELECTRICAL LOUD-SPEAKING RECEIVERS, HORNS, MICROPHONE TRANSMITTERS, CONTROL BOXES, AND ELECTRIC MOTORS FOR PHONOGRAPHIC TURNTABLES. THE BRISTOL COMPANY, Waterbury, Conn.
Filed August 11, 1922. Serial No. 168,098. PUBLISHED JANUARY 9, 1923.

166,472. WIRE ROPE. WILLIAMSPORT WIRE ROPE DISTRIBUTING COMPANY, Houston, Tex., and Tulsa, Okla.
Filed August 2, 1922. Serial No. 167,746. PUBLISHED JANUARY 9, 1923.

166,473. PASTE FOR HOLDING DENTAL PLATES IN POSITION. RUSSELL O. L. SMITH, doing business as Dentald Products Co., Buffalo, N. Y.
Filed August 1, 1922. Serial No. 167,693. PUBLISHED JANUARY 9, 1923.

166,474. POCKET AND HUNTING KNIVES. NEW YORK KNIFE COMPANY, New York, N. Y.
Filed July 24, 1922. Serial No. 167,516. PUBLISHED JANUARY 2, 1923.

166,475. MILLING MACHINERY. THE WOLF COMPANY, Chambersburg, Pa.
Filed July 18, 1922. Serial No. 167,062. PUBLISHED JANUARY 2, 1923.

166,476. ALIMENTARY PASTE. BONADIO & MERICHIONNI CO., Pittsburgh, Pa.
Filed July 17, 1922. Serial No. 166,973. PUBLISHED JANUARY 16, 1923.

166,477. FOOD-FLAVORING EXTRACTS. ACME FLAVORING CO., Portland, Oreg.
Filed July 17, 1922. Serial No. 166,969. PUBLISHED JANUARY 16, 1923.

166,478. CLINICAL AND MEDICAL THERMOMETERS, HYPODERMIC SYRINGES AND NEEDLES. THE G. FAICHNEY COMPANY, Watertown, N. Y.
Filed September 28, 1922. Serial No. 170,018. PUBLISHED JANUARY 9, 1923.

166,479. METAL TANKS. THE YOUNGSTOWN WELDING COMPANY, Youngstown, Ohio.
Filed October 2, 1922. Serial No. 170,231. PUBLISHED JANUARY 9, 1923.

166,480. PHOTOGRAPHIC DEVELOPING PAPERS. THE HALOID COMPANY, Rochester, N. Y.
Filed October 4, 1922. Serial No. 170,288. PUBLISHED JANUARY 2, 1923.

166,481. PUNCTURE-FILLING COMPOUND FOR AUTOMOBILE AND OTHER TIRES. GONZALO RUIZ, New York, N. Y.
Filed October 6, 1922. Serial No. 170,406. PUBLISHED JANUARY 9, 1923.

166,482. SEAMLESS ELASTIC HOSIERY FOR SPRAINS, VARICOSE VEINS, WEAK KNEES, WEAK ANKLES, ETC. CHARLES WALTON & SON, Needham Heights, Mass.
Filed October 10, 1922. Serial No. 170,554. PUBLISHED JANUARY 9, 1923.

166,483. A CUTTING AND LUBRICATING OIL COMPOSED OF COTTON OIL, TALLOW, AND SOAP. WONDRUSCHKA-DUDA COMPANY, New York, N. Y.
Filed October 10, 1922. Serial No. 170,555. PUBLISHED JANUARY 9, 1923.

166,484. PAINT ENAMELS TO BE USED ON ALL INTERIOR AND EXTERIOR SURFACES. FRANK BOWNES COMPANY, INC., Lynn, Mass.
Filed October 12, 1922. Serial No. 170,619. PUBLISHED JANUARY 9, 1923.

166,485. READY-MIXED PAINTS; PAINTS FOR PROTECTING METALS, AND BLACK COATING PAINTS. JOHN F. CHISHOLM, Philadelphia, Pa.
Filed October 12, 1922. Serial No. 170,621. PUBLISHED JANUARY 9, 1923.

166,486. READY-MIXED ROOF PAINT. KLING-TITE PRODUCTS CO., Chicago, Ill.
Filed October 13, 1922. Serial No. 170,687. PUBLISHED JANUARY 9, 1923.

166,487. CERTAIN NAMED OILS AND GREASES. MOORE-FULLER OIL CO., Creston, Iowa.
Filed October 16, 1922. Serial No. 170,778. PUBLISHED JANUARY 9, 1923.

166,488. DRY POWDER TO BE MIXED WITH COLD WATER AND USED AS A WALL COATING. THE MURALO COMPANY, New York and New Brighton, N. Y.
Filed October 20, 1922. Serial No. 170,986. PUBLISHED JANUARY 9, 1923.

166,489. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. HARRY J. KUHN, doing business as Kuhn Paint and Varnish Works, Houston, Tex.
Filed October 21, 1922. Serial No. 171,028. PUBLISHED JANUARY 9, 1923.

166,490. RUBBER-DAM HOLDERS. DETROIT DENTAL MANUFACTURING COMPANY, Detroit, Mich.
Filed October 23, 1922. Serial No. 171,065. PUBLISHED JANUARY 9, 1923.

166,491. THERMOSTATIC TEMPERATURE-CONTROL APPARATUS. AMERICAN THERMOSTAT CO., Newark, N. J.
Filed October 24, 1922. Serial No. 171,115. PUBLISHED JANUARY 2, 1923.

166,492. PORTABLE ELECTRIC MOTORS. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn.
Filed October 25, 1922. Serial No. 171,159. PUBLISHED JANUARY 9, 1923.

166,493. MOTOR AND TRACTOR LUBRICATING OILS. D-A LUBRICANT COMPANY, INC., Indianapolis, Ind.
Filed October 26, 1922. Serial No. 171,225. PUBLISHED JANUARY 9, 1923.

166,494. LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed November 6, 1922. Serial No. 171,666. PUBLISHED JANUARY 2, 1923.

166,495. LUBRICANT DRESSING FOR AUTOMOBILE PLANETARY TRANSMISSIONS. LEWIS OIL COMPANY, St. Louis, Mo.
Filed November 11, 1922. Serial No. 171,852. PUBLISHED JANUARY 9, 1923.

166,496. CERTAIN NAMED PETROLEUM PRODUCTS. SEASIDE OIL COMPANY, Summerland, Calif.
Filed November 13, 1922. Serial No. 171,961. PUBLISHED JANUARY 9, 1923.

166,497. RADIOACTIVE PADS FOR SURGICAL OR MEDICAL USE. PHYSICIAN'S RADIOPATHIC COMPANY, Los Angeles, Calif.
Filed April 13, 1922. Serial No. 162,265. PUBLISHED JANUARY 9, 1923.

166,498. DRY, PASTE, AND READY-MIXED INDUSTRIAL AND HOUSE PAINTS, VARNISHES, JAPANS, AND PAINT ENAMELS, READY-MIXED, DRY, AND PASTE. THE STANLEY CHEMICAL COMPANY, East Berlin, Conn.
Filed April 18, 1922. Serial No. 162,514. PUBLISHED JANUARY 9, 1923.

166,499. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. DODGE, SWEENEY & CO., San Francisco, Calif.
Filed April 22, 1922. Serial No. 162,724. PUBLISHED JANUARY 9, 1923.

166,500. CANDY. HOWARD H. HOTT CANDY CO., Chicago, Ill.
Filed April 22, 1922. Serial No. 162,738. PUBLISHED JANUARY 16, 1923.

166,501. FRESH VEGETABLES—NAMELY, POTATOES. EUGENE D. MCSWEENY, El Monte, Calif.
Filed April 22, 1922. Serial No. 162,755. PUBLISHED JANUARY 9, 1923.

166,502. CALIFORNIA RIPE OLIVES AND OLIVE OIL. WYANDOTTE OLIVE GROWERS ASSOCIATION, Oroville, Calif.
Filed April 22, 1922. Serial No. 162,789. PUBLISHED JANUARY 16, 1923.

166,503. RADIUS TOOLS AND KNURLING TOOLS FOR HOLDERS. ANDREY SHEBERASHENKO, doing business as Radius Tool Co., Detroit, Mich.
Filed April 26, 1922. Serial No. 162,954. PUBLISHED JANUARY 2, 1923.

166,504. LUBRICANTS CONSISTING OF OILS AND GREASES. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa.
Filed April 28, 1922. Serial No. 163,045. PUBLISHED SEPTEMBER 19, 1922.

166,505. CANDY. GORHAM CHOCOLATE COMPANY, INC., Brooklyn, N. Y.
Filed May 3, 1922. Serial No. 163,269. PUBLISHED JANUARY 9, 1923.

166,506. ICE-CREAM BAR. CHARLES G. LOUDA, Detroit, Mich.
Filed May 3, 1922. Serial No. 163,277. PUBLISHED JANUARY 9, 1923.

166,507. CHOCOLATE-COVERED ICE-CREAM BAR. CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill.
Filed May 4, 1922. Serial No. 163,328. PUBLISHED JANUARY 9, 1923.

166,508. FOOD PRODUCT CONSISTING OF TONGUES OF ANIMALS, WHICH HAVE BEEN PICKLED AND PRESSED TOGETHER IN A CONTAINER AND DISTRIBUTED IN THAT MANNER. GEORGE KERN, INC., New York, N. Y.
Filed May 6, 1922. Serial No. 163,450. PUBLISHED JANUARY 9, 1923.

166,509. HONEY. GEORGE HARRISON, JR., doing business as The Lonesome Pine Apiaries, Bluemont, Va.
Filed May 11, 1922. Serial No. 163,664. PUBLISHED JANUARY 9, 1923.

166,510. HONEY. GEORGE HARRISON, JR., doing business as Lonesome Pine Apiaries, Bluemont, Va.
Filed May 11, 1922. Serial No. 163,665. PUBLISHED JANUARY 9, 1923.

166,511. CANNED SAUSAGE. WILLIAM B. FAIR, Habana, Cuba.
Filed May 11, 1922. Serial No. 163,675. PUBLISHED JANUARY 9, 1923.

166,512. COFFEE. THEOPHILE T. REBOUL, New Orleans, La.
Filed May 11, 1922. Serial No. 163,698. PUBLISHED JANUARY 9, 1923.

166,513. FRESH LEMONS. SANTA PAULA CITRUS FRUIT ASSOCIATION, Santa Paula, Calif.
Filed May 11, 1922. Serial No. 163,701. PUBLISHED JANUARY 9, 1923.

166,514. FRESH LEMONS. SANTA PAULA CITRUS FRUIT ASSOCIATION, Santa Paula, Calif.
Filed May 11, 1922. Serial No. 163,704. PUBLISHED JANUARY 9, 1923.

166,515. CANDIED AND SALTED NUTS. ELIZABETH STEEVES, doing business as The Elizabeth Candy Shops, Waltham, Mass.
Filed May 11, 1922. Serial No. 163,716. PUBLISHED JANUARY 9, 1923.

166,516. CYLINDER BLOCKS, CYLINDER HEADS, GEAR-CASE COVERS FOR HYDROCARBON ENGINES, AND MORE ESPECIALLY FOR AUTOMOBILE ENGINES. INTERCHANGEABLE PARTS COMPANY, Newark, N. J.
Filed May 12, 1922. Serial No. 163,755. PUBLISHED NOVEMBER 14, 1922.

166,517. GAS AND OIL LAMPS. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed February 18, 1922. Serial No. 159,523. PUBLISHED MARCH 28, 1922.

166,518. LUBRICATING OILS AND LUBRICATING GREASES. WARREN & BAILEY CO., Los Angeles, Calif.
Filed November 18, 1922. Serial No. 172,247. PUBLISHED JANUARY 9, 1923.

166,519. CLEANING AND POLISHING PREPARATION FOR AUTOMOBILES, FURNITURE, WOODWORK, AND THE LIKE. I-SIS LABORATORIES, INC., New York, N. Y.
Filed November 17, 1922. Serial No. 172,163. PUBLISHED JANUARY 9, 1923.

166,520. CEMENT FOR FILLING TEETH AND LIQUID THEREFOR. THE L. D. CAULK COMPANY, Milford, Del.
Filed November 16, 1922. Serial No. 172,082. PUBLISHED JANUARY 9, 1923.

166,521. DENTAL ALLOY. THE L. D. CAULK COMPANY, Milford, Del.
Filed November 16, 1922. Serial No. 172,081. PUBLISHED JANUARY 9, 1923.

166,522. KNITTED BAGS. THE NITRAM MANUFACTURING CO., East Orange, N. J., and New York, N. Y.
Filed November 14, 1922. Serial No. 172,008. PUBLISHED JANUARY 9, 1923.

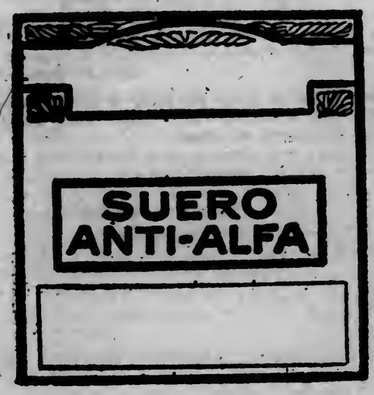
166,523. KNITTED BAGS. THE NITRAM MANUFACTURING CO., East Orange, N. J., and New York, N. Y.
Filed November 14, 1922. Serial No. 172,007. PUBLISHED JANUARY 9, 1923.

166,524. CHEST SPLINT. THE THERAPEUTIC APPLIANCE CORPORATION, St. Louis, Mo.
Filed November 13, 1922. Serial No. 171,970. PUBLISHED JANUARY 9, 1923.

INTERNATIONAL TRADE-MARK REGISTRATIONS

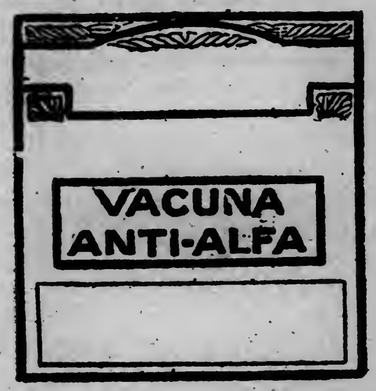
The following International Registrations have been received from the Bureau at Habana and have been placed upon the Register in accordance with the provisions of section 1 (a) of the act of March 19, 1920.

166,525. International Registration No. 700 of June 15, 1922. Registered in Dominican Republic on March 27, 1922, No. 1,212. Proprietor: BRAULIO LARRAZÁBAL. Address: Villegas No. 99, Habana, Cuba.



Merchandise to which the mark is affixed.—Biological Products in General, and Specially Serum.

166,526. International Registration No. 701 of June 15, 1922. Registered in Dominican Republic on March 27, 1922, No. 1,213. Proprietor: BRAULIO LARRAZÁBAL. Address: Villegas No. 99, Habana, Cuba.



Merchandise to which the mark is affixed.—Biological Products in General, and Specially Serum.

166,527. International Registration No. 794 of January 16, 1923. Registered in Dominican Republic on December 14, 1922, No. 1,300. Proprietor: CHAMPANERA DE VILLAVICIOSA. (S. A.) Address: Gijón, Provincia de Oviedo, Spain.



Merchandise to which the mark is affixed.—Cider of All Kinds.

166,528. International Registration No. 795 of January 29, 1923. Registered in Dominican Republic on January 8, 1923, No. 1,314. Proprietor: HIJOS DE CARLOS ALBO. Address: Santona, Provincia de Santander, Spain.



Merchandise to which the mark is affixed.—Canned Fish.

166,529. International Registration No. 796 of January 29, 1923. Registered in Dominican Republic on January 8, 1923, No. 1,315. Proprietor: DIEGO PAZ P. LÓPEZ. Address: Zaragoza, Spain.



Merchandise to which the mark is affixed.—Specifics for the Hair.

166,530. International Registration No. 797 of January 29, 1923. Registered in Dominican Republic on January 8, 1923, No. 1,316. Proprietor: JOSÉ MARIA CASTILLO. Address: Bilbao, Provincia de Vizcaya, Spain.



Merchandise to which the mark is affixed.—Canned Fish.

166,531. International Registration No. 798, of January 29, 1923. Registered in Dominican Republic on January 8, 1923, No. 1,317. Proprietor: GANDARA & HAZ. Address: Vigo, Spain.



Merchandise to which the mark is affixed.—Manufactured Rubber Goods, Specially Rubber Tires, Tubes, and Rubber Accessories for Same.

TRADE-MARK REGISTRATIONS CANCELED.

65,605. ELECTRIC BATTERIES. AMPERE MANUFACTURING CO., New York, N. Y. Registered October 8, 1907. Canceled October 9, 1920.

70,798. ARTIFICIAL STONE AND COMPOSITION FOR MAKING THE SAME. MARBLECRETE PRODUCTS CO., Akron, N. Y. Registered October 6, 1908. Canceled February 16, 1923.

93,047. MONTHLY PERIODICAL. THOMSON & BURTON Co., Chicago and Benton, Ill. Registered August 12, 1913. Canceled February 7, 1923.

107,544. CERTAIN NAMED HARDWARE AND PLUMBING SUPPLIES. CENTADRINK FILTERS CO. INC., New York, N. Y. Registered December 7, 1915. Canceled January 18, 1918.

120,940. TALKING MACHINES. BOSTON PIANO & MUSIC CO., Iowa City, Iowa. Registered March 19, 1918. Canceled January 13, 1923.

128,515. CANDIES. PAUL R. SHAILER, Washington, D. C. Registered January 6, 1920. Canceled February 7, 1923.

128,597. SOCKET WRENCHES. AMERICAN GRINDER MANUFACTURING COMPANY, Milwaukee, Wis. Registered January 13, 1920. Canceled February 7, 1923.

133,095. VACUUM-TUBE DEVICES AND PARTS AND ACCESSORIES THEREFOR. WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass. Registered July 6, 1920. Canceled February 16, 1923.

137,673. HOSIERY. PATERSON BREWING AND MALTING COMPANY, Paterson, N. J. Registered November 30, 1920. Canceled February 7, 1923.

138,574. GAS WATER HEATERS. BASTIAN-MORLEY Co., Laporte, Ind. Registered January 4, 1921. Canceled February 7, 1923.

146,474. RUBBER HEELS. GULICK AND SNYDER RUBBER Co., Columbus, Ohio. Registered September 6, 1921. Canceled January 15, 1923.

152,073. COTTON, SILK, WOOL, LINEN, AND MIXED CLOTH PIECE GOODS. H. V. T. SCHILL Co., New York, N. Y. Registered February 14, 1922. Canceled January 13, 1923.

153,237. CUTLERY—VIZ, RAZORS. UNION CUTLERY Co., Olean, N. Y. Registered March 14, 1922. Canceled February 7, 1923.

156,097. CORSETS, BRASSIÈRES, CORSET WAISTS, BANDEAUX, GIRDLES, AND DIAPHRAGM CONFINERS. AMERICAN LADY CORSET Co., Detroit, Mich. Registered June 13, 1922. Canceled February 7, 1923.

156,222. GRASS CARPETS AND RUGS. CREX COMPANY, New York, N. Y. Registered June 20, 1922. Canceled December 18, 1922.

159,243. FABRIC GLOVES. WIMELBACHER & RICE, New York, N. Y. Registered September 19, 1922. Canceled February 2, 1923.

159,766. CERTAIN NAMED ASPHALT PRODUCTS, FLUXES, AND PITCHES. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., and New York, N. Y. Registered October 3, 1922. Canceled January 13, 1923.

161,304. PETROLATUM, PETROLATUM GREASES, AND PETROLATUM OILS. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., and New York, N. Y. Registered November 7, 1922. Canceled February 7, 1923.

161,638. CERTAIN NAMED PETROLEUM PRODUCTS. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., and New York, N. Y. Registered November 14, 1922. Canceled February 7, 1923.

LABELS

REGISTERED APRIL 3, 1923.

25,772.—*Title:* CHILDS VERY BEST HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published August 12, 1922.

25,773.—*Title:* PHILCO HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published September 12, 1922.

25,774.—*Title:* GOLDEN ROSE HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published August 22, 1922.

25,775.—*Title:* FAMOUS BRAND HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published July 31, 1922.

25,776.—*Title:* BERNICE GUARANTEED PERFECT HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published November 13, 1922.

25,777.—*Title:* BERNICE GUARANTEED PERFECT HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published August 17, 1922.

25,778.—*Title:* BERNICE GUARANTEED PERFECT HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York N. Y. Published August 17, 1922.

25,779.—*Title:* WANDA GUARANTEED PERFECT HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published November 29, 1922.

25,780—*Title:* BLENDWELL HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published June 30, 1922.

25,781.—*Title:* BERNICE HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published July 24, 1922.

25,782.—*Title:* KONOMY HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO., INC., New York, N. Y. Published June 30, 1922.

25,783.—*Title:* MAVOURNEEN HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published May 27, 1922.

25,784.—*Title:* D. P. HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published June 28, 1922.

25,785.—*Title:* PORTAGE HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published December 29, 1922.

25,786.—*Title:* FLORY'S BLENDWELL HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published December 27, 1922.

25,787.—*Title:* PAR-LIN HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published December 30, 1922.

25,788.—*Title:* GOLD CHAIN HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published August 29, 1922.

25,789.—*Title:* HILLCO HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published January 17, 1923.

25,790.—*Title:* ROGERS HAIR NET. For Hair Nets. AD-PACKED HAIR NET CO. INC., New York, N. Y. Published January 12, 1923.

25,791.—*Title:* POCKET RADIO. For Pocket Radio Receiving Sets. AUTO INDICATOR COMPANY, Grand Rapids, Mich. Published October 15, 1922.

25,792.—*Title:* PATCH-O-PAINT. For an Enamel for Metal Surfaces. THE B. D. K. COMPANY, Chicago, Ill. Published May 4, 1922.

25,793.—*Title:* DRUM'S. For Malt Extract. HERMAN F. DRUMMOND, Milwaukee, Wis. Published October 1, 1922.

25,794.—*Title:* POM-ORA. For Nonalcoholic Beverages. FLORIDA PRODUCTS COMPANY, INC., New York, N. Y. Published February 19, 1923.

25,795.—*Title:* CUBAN PRIZE. For Cigars. GINSBURG CIGAR COMPANY, Davenport, Iowa. Published November 22, 1922.

25,796.—*Title:* SAIGO. For Varnish. MACGORDON, doing business as Saigo Varnish Works, New York, N. Y. Published November 24, 1922.

25,797.—*Title:* FANGERINE. For Laxative and Corrective Preparations. THE GOTHAM CORPORATION, New York, N. Y. Published February 20, 1923.

25,798.—*Title:* MAID OF THE BIRCH. For Packages Containing Toothpicks. THE HARDWOOD PRODUCTS CO., Mayville, Mich. Published May 10, 1922.

25,799.—*Title:* TROPHY TOOTH PICKS. For Packages Containing Toothpicks. THE HARDWOOD PRODUCTS CO., Mayville, Mich. Published May 10, 1922.

25,800.—*Title:* LENZ-LITE. For a Bottle of Liquid for Cleaning Glasses. M. C. KENNEY, Dubois, Pa. Published March 7, 1923.

25,801.—*Title:* SILVER-BIRCH. For Packages Containing Toothpicks. MINTO TOOTH PICK & SPECIALTY CO., Mayville, Mich. Published May 10, 1922.

25,802.—*Title:* EVEREADY RADIO 'A' BATTERY. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published February 22, 1923.

25,803.—*Title:* NU-TYPE. For a Preparation Used for Cleaning Metal Type and Stamps. CARL EUGENE TIDWELL, doing business as The Tidwell Company, Atlanta, Ga. Published April 1, 1921.

PRINTS

REGISTERED APRIL 3, 1923.

6,630.—*Title:* SPARK THE HUMAN ENGINE WITH ELINE CHOCOLATE BARS. For Chocolate. ELINE'S INCORPORATED, Milwaukee, Wis. Published February 20, 1923.

6,631.—*Title:* SNOW FLUFF. For Toilet Powder. E. FOUGERA & CO., New York, N. Y. Published February 19, 1923.

6,632.—*Title:* LOOK BEST—LONGEST. For Knitted Neckties and Scarfs. FRANKLIN KNITTING MILLS, INC., New York, N. Y. Published March 15, 1921.

6,633.—*Title:* DARE YOU WEAR A DIAMOND RING? For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published February 19, 1923.

6,634.—*Title:* COULD YOU WEAR A STRING OF PEARLS? For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published February 21, 1923.

6,635.—*Title:* KIRK'S COCOA HARDWATER CASTILE. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published March 4, 1923.

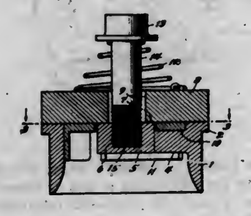
6,636.—*Title:* SLAZUM. For Insecticide to Kill Boll Weevil. SOUTHERN FARM PRODUCTS CO., Atlanta, Ga. Published February 20, 1923.

6,637.—*Title:* MY LIFE'S BEST WORK. For Bread. WARD BAKING COMPANY, New York, N. Y. Published November 28, 1922.

REISSUES.

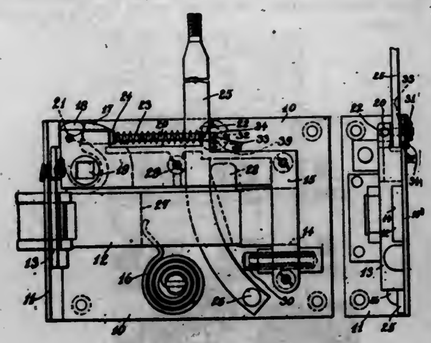
APRIL 3, 1923.

15,568. AUTOMATIC VALVE AND RIM. HARRY B. EADS, Port Arthur, Tex., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed May 10, 1922. Serial No. 559,878. Original No. 1,300,935, dated Apr. 15, 1919, Serial No. 221,185, filed Mar. 8, 1918. 7 Claims. (Cl. 251—144.)



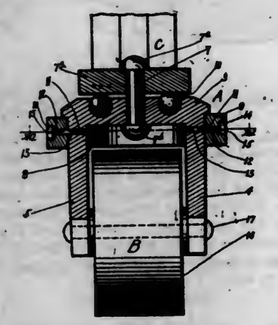
1. A device of the character described including a casing formed with outer and inner valve seats and a rim seat, a valve body for engagement with said valve seats, a rim for cooperating with the rim seat and for protecting the valve body, and resilient means for yieldingly and normally holding the valve body and rim on their seats.

15,569. LATCH. LEON OTTINGER, New York, N. Y. Filed Dec. 5, 1922. Serial No. 605,093. Original No. 1,386,422, dated Aug. 2, 1921, Serial No. 354,960, filed Jan. 29, 1920. 5 Claims. (Cl. 292—173.)



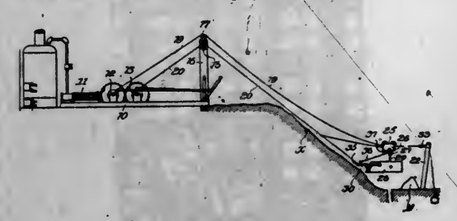
1. In a latch, a rectilinearly movable latch bolt, means for retracting said bolt including independently operable members each adapted to effect retraction of the bolt, and a single means for preventing retraction of the bolt by the actuation of either of said members but permitting, when in its effective position, of the retraction movement of the bolt by pressure directly applied to one end of the bolt.

15,570. CASTER. JOHN SIMON YOUNG, deceased, late of Los Angeles, Calif., by Edward W. Young, administrator, Los Angeles, Calif., and Edward W. Young and John L. Schecher, Los Angeles, Calif., assignors to John L. Schecher, Los Angeles, Calif. Filed July 1, 1920. Serial No. 393,452. Original No. 1,301,777, dated Apr. 22, 1919, Serial No. 157,758, filed Mar. 27, 1917. 3 Claims. (Cl. 16—21.)



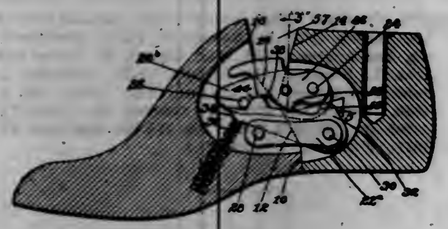
1. A caster including a yoke member formed with annular side walls and a top having an annular raceway therein, antifriction balls loose within the raceway, a pivot pin extending upwardly from the top at the center of the raceway, integral furcations projecting downwardly from opposite sides of the yoke, a roller journaled between the furcations, and a buffer ring extending around the annular side walls of the yoke and projecting on three sides beyond the roller and yoke.

15,571. EXCAVATING MACHINE. MILTON S. LONGNAKER, Pleasant Hill, Ohio, assignor, by mesne assignments, to John W. Page, Chicago, Ill. Filed Jan. 24, 1922. Serial No. 531,461. Original No. 877,578, dated Jan. 28, 1908, Serial No. 366,615, filed Apr. 5, 1907. 4 Claims. (Cl. 37—117.)



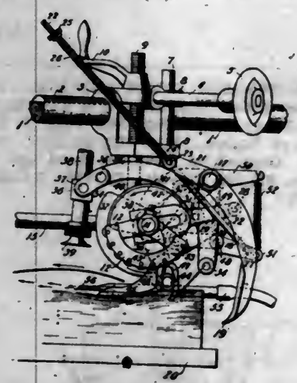
1. In apparatus of the class described, an inclined cable or support, means for slackening and drawing the cable taut to alter its degree of inclination, a movable carriage arranged to travel on the inclined cable and movable thereon in one direction by gravity, a pivotally hung load conveying device suspended from said carriage for free pivotal movement, and an operating cable connected to said conveying device and arranged to haul the same in the opposite direction.

15,572. LAST. GEORGE G. SCHELTER, Rochester, N. Y., assignor, by mesne assignments, to United Last Company, Auburn, Me., a Corporation of Maine. Filed June 30, 1921. Serial No. 481,711. Original No. 1,372,779, dated Mar. 29, 1921, Serial No. 316,219, filed Aug. 8, 1919. 42 Claims. (Cl. 12—136.)



1. In a last, separate fore and heel parts, bonding mechanism joining said parts constructed and arranged to permit the collapse of the last, a locking member movable on one of said last parts to engage the other last part in two relations prior to any substantial collapsing movement, to hold the last rigidly extended and impositively locked, respectively, and a member independent of the locking member actuatable to change one of said relations to the other at will.

15,573. SHEET-FEEDING MACHINE. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed May 18, 1922. Serial No. 562,082. Original No. 1,382,952, dated June 28, 1921, Serial No. 288,753, filed Apr. 9 1919. 28 Claims. (Cl. 271—22.)

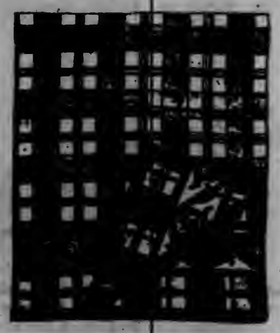


1. In a sheet feeding machine, a sheet gripping instrumentality, means for supporting a pile of sheets and holding one portion of said pile displaced relatively to other portions of saide pile, and means operating upon the top sheet of said pile in a direction away from said sheet gripping instrumentality for moving said top sheet into position to be engaged by said sheet gripping instrumentality.

DESIGNS.

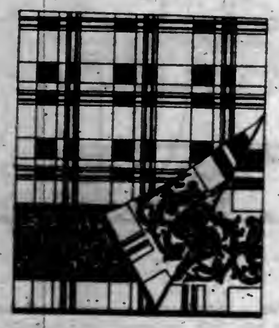
APRIL 3, 1923.

62,161. BLANKET OR SIMILAR ARTICLE. FREDERICK A. ANDREWS, Pequannock, N. J., assignor to The Esmond Mills, New York, N. Y., a Corporation of Massachusetts. Filed Aug. 21, 1922. Serial No. 3,501. Term of patent, 7 years.



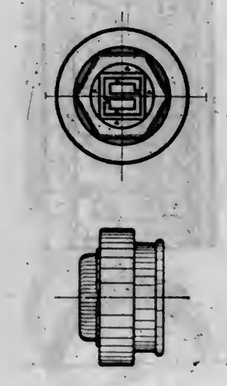
The ornamental design for a blanket or similar article substantially as shown.

62,162. BLANKET OR SIMILAR ARTICLE. FREDERICK A. ANDREWS, Pequannock, N. J., assignor to The Esmond Mills, New York, N. Y., a Corporation of Massachusetts. Filed Aug. 21, 1922. Serial No. 3,502. Term of patent 7 years.



The ornamental design for a blanket or similar article substantially as shown.

62,163. HUB CAP. JOSEPH H. BOURGON, Detroit, Mich., assignor to Studebaker Corporation, a Corporation of New Jersey. Filed Aug. 12, 1922. Serial No. 3,866. Term of patent 7 years.



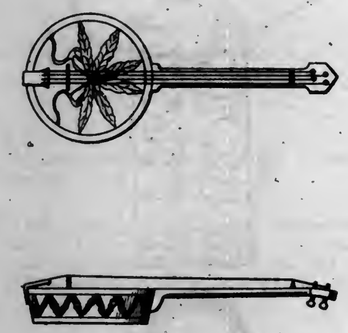
The ornamental design for a hub cap substantially as shown.

62,164. VEHICLE TIRE. FREDRICK S. DICKINSON, New York, N. Y. Filed July 7, 1922. Serial No. 2,982. Term of patent 3½ years.



The ornamental design for a vehicle tire.

62,165. GUITAR. FRANK F. GEBL, Milwaukee, Wis. Filed July 3, 1922. Serial No. 2,941. Term of patent 7 years.



The ornamental design for a guitar as shown.

62,166. SHAVING-BRUSH HOLDER. MEYER GREENBURG, Kearney, N. J. Filed Oct. 10, 1922. Serial No. 3,925. Term of patent 3½ years.



The ornamental design for a shaving brush holder, as shown.

62,167. TIRE TREAD. JAMES N. GUNN, New York, N. Y., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 30, 1922. Serial No. 2,899. Term of patent 14 years.



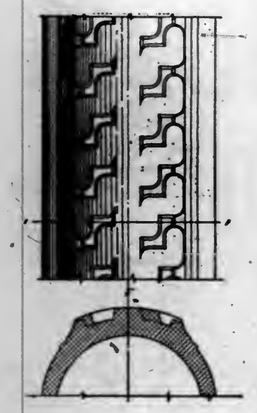
The ornamental design for a tire tread, as shown.

62,168. TIRE TREAD. JAMES N. GUNN, New York, N. Y., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 30, 1922. Serial No. 2,900. Term of patent 14 years.



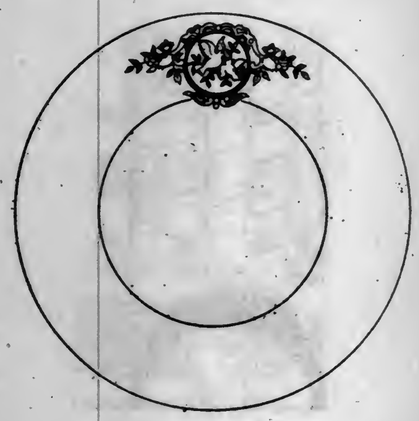
The ornamental design for a tire tread, as shown.

62,169. TIRE TREAD. EARL A. HECHT, Mansfield, Ohio. Filed June 24, 1922. Serial No. 2,812. Term of patent 14 years.



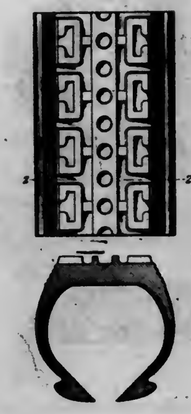
The ornamental design for a tire tread as shown.

62,170. PLATE OR SIMILAR ARTICLE. PERCY JENNER, New York, N. Y., assignor to The Palm Brothers Company, New York, N. Y. Filed Feb. 28, 1922. Serial No. 940. Term of patent 3½ years.



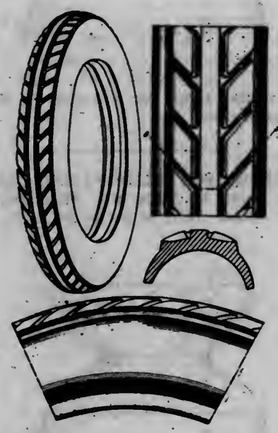
The ornamental design for a plate or similar article, as shown.

62,171. TIRE TREAD. DARRELL E. PATTON, Los Angeles, Calif., assignor to National Airless Tire Company, Los Angeles, Calif., a Corporation of Nevada. Filed June 19, 1922. Serial No. 2,727. Term of patent 7 years.



The ornamental design for a tire tread, substantially as shown.

62,172. TIRE TREAD. WALLACE HENRY PAULL, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, London, England. Filed July 25, 1921. Serial No. 487,552. Term of patent 14 years.



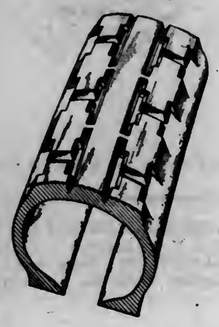
The ornamental design for a tire tread as shown.

62,173. CHILD'S VEHICLE. EMIL L. PEARSON, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 24. Term of patent 7 years.



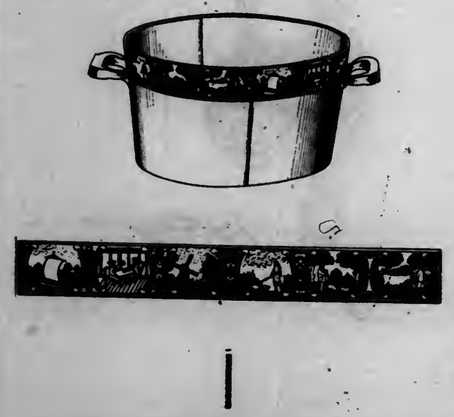
The ornamental design for a body for a child's vehicle as shown.

62,174. TIRE CASING. HARLAN S. RECTOR, Chicago, Ill., assignor to The Beckley-Ralston Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1921. Serial No. 522,712. Term of patent 3½ years.



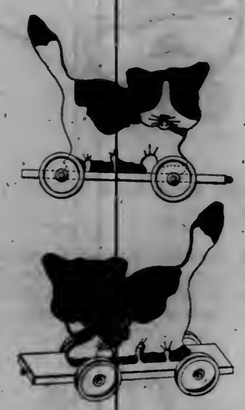
The ornamental design for a tire casing, as shown.

62,175. BOWL OR THE LIKE. LOUIS W. RICE, New York, N. Y. Filed Mar. 29, 1922. Serial No. 1,447. Term of patent 7 years.



The ornamental design for a bowl or the like, as shown.

62,176. TOY. ELLEN R. WEBB, Denver, Colo. Filed Dec. 2, 1921. Serial No. 519,521. Term of patent 7 years.



The ornamental design for a toy, as shown.

62,177. CAST ARM FOR LIGHTING FIXTURES. KARL NACKE, Brooklyn, N. Y., assignor to United Metal Spinning Co., Brooklyn, N. Y., a Corporation of New York. Filed May 19, 1922. Serial No. 2,312. Term of patent 3½ years.



The ornamental design for a cast arm for lighting fixtures, as shown.

62,178. HUSK FOR BALL-LAMP-SOCKET COVER FOR LIGHTING FIXTURES. KARL NACKE, Brooklyn, N. Y., assignor to United Metal Spinning Co., Brooklyn, N. Y., a Corporation of New York. Filed May 19, 1922. Serial No. 2,313. Term of patent 3½ years.



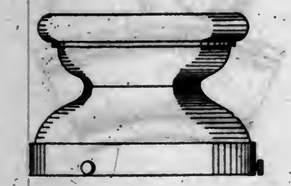
The ornamental design for a husk for ball lamp socket cover for lighting fixtures, as shown.

62,179. HOLDER FOR ILLUMINATING GLASSWARE. HARRY C. ADAM, St. Louis, Mo. Filed May 13, 1922. Serial No. 2,222. Term of patent 14 years.



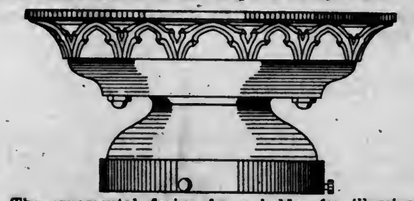
The ornamental design for a holder for illuminating glassware, as shown.

62,180. HOLDER FOR ILLUMINATING GLASSWARE. HARRY C. ADAM, St. Louis, Mo. Filed May 13, 1922. Serial No. 2,224. Term of patent 14 years.



The ornamental design for a holder for illuminating glassware, as shown.

62,181. HOLDER FOR ILLUMINATING GLASSWARE. HARRY C. ADAM, St. Louis, Mo. Filed May 13, 1922. Serial No. 2,226. Term of patent 14 years.



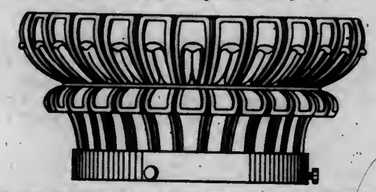
The ornamental design for a holder for illuminating glassware as shown.

62,182. HOLDER FOR ILLUMINATING GLASSWARE. HARRY C. ADAM, St. Louis, Mo. Filed May 13, 1922. Serial No. 2,228. Term of patent 14 years.



The ornamental design for a holder for illuminating glassware, as shown.

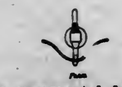
62,183. HOLDER FOR ILLUMINATING GLASSWARE. HARRY C. ADAM, St. Louis, Mo. Filed May 13, 1922. Serial No. 2,229. Term of patent 14 years.



The ornamental design for a holder for illuminating glassware, as shown.

62,184. ARM FOR LIGHTING FIXTURES. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 20, 1922. Serial No. 1,862. Term of patent 3½ years.





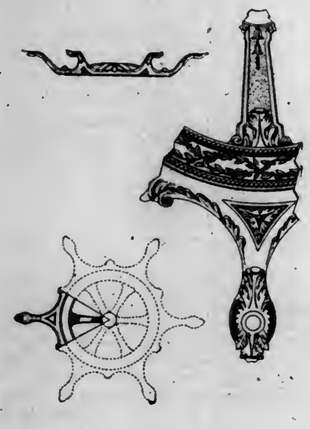
The ornamental design for an arm for lighting fixture, as shown.

62,185. CEILING FIXTURE FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed July 21, 1921. Serial No. 486,591. Term of patent 3½ years.



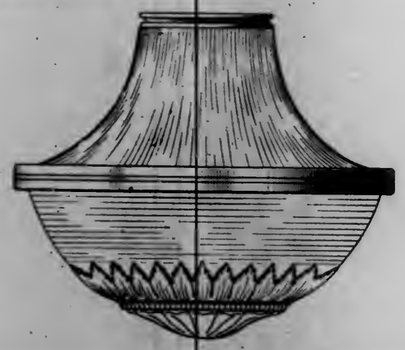
The ornamental design for a ceiling fixture for lighting fixtures, as shown.

62,186. RING FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed July 21, 1921. Serial No. 486,579. Term of patent 3½ years.



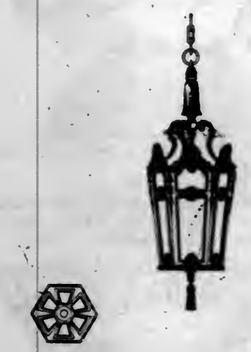
The ornamental design for a ring for lighting fixtures, as shown.

62,187. PRISMATIC GLASS GLOBE. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Co. Inc., New York, N. Y., a Corporation of New Jersey. Filed July 6, 1921. Serial No. 482,851. Term of patent 14 years.



The ornamental design for a prismatic glass globe, as shown.

62,188. HANGING LAMP. CURTIS A. SMITH, New Rochelle, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Mar. 28, 1921. Serial No. 456,495. Term of patent 7 years.



The ornamental design for a hanging lamp, as shown.

PATENTS

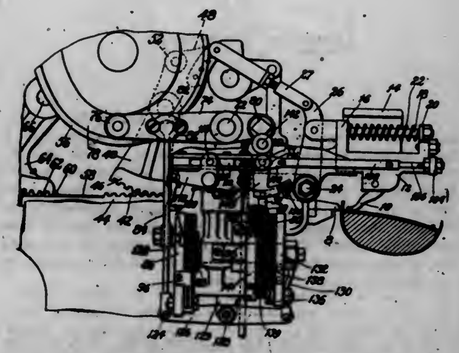
GRANTED APRIL 3, 1923.

1,450,163. HEAVY-TRUCK-TIRE FLAP. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Oct. 4, 1920. Serial No. 414,495. 4 Claims. (Cl. 152—20.)



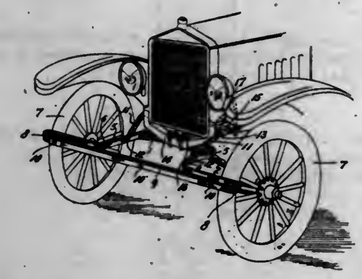
4. A pneumatic tire flap consisting of a strip of rubber composition having a base portion with a flat rim-engaging face adapted to be seated on a wheel-rim and fill the space between the beaded portions of a casing, upstanding flanges of increasing flexibility towards their free edges and of a length and thickness adapted to relieve the side walls of a casing from abrupt shearing stress in the region of the rim flanges, and overlapping ends reduced in thickness on their outside and inside respectively, said flap having a curved tube-engaging face which defines with the inside of a casing a tube-receiving cavity of nearly circular cross-section.

1,450,164. FASTENING-INSERTING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,262. 39 Claims. (Cl. 1—20.)



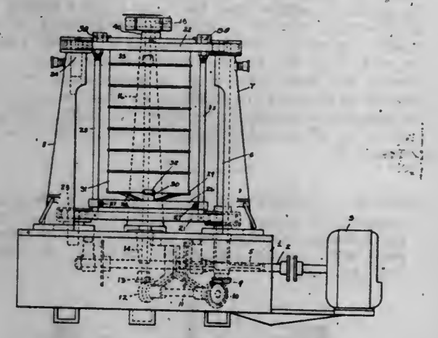
1. In a machine of the character described, a work rest, an anvil movable toward and from the work rest to clamp the work thereagainst thus measuring the work, fastening forming and driving devices comprising means for feeding wire stock and for cutting the same into lengths suitable for fastenings, a member secured to the anvil to be movable therewith and provided with operating abutments, a bell crank for adjusting the cutting means, and a second bell crank for adjusting the wire feeding means both arranged to be operated from said abutments.

1,450,165. AUTOMOBILE BUMPER. JOHN F. BEANS, Canton, Ohio, assignor to The Beans Spring Company, Massillon, Ohio, a Corporation of Ohio. Filed Nov. 4, 1922. Serial No. 599,021. 3 Claims. (Cl. 293—55.)



1. An automobile bumper formed of a single bar of spring steel having a U-shaped, rearwardly extending, central portion for engagement with the front spring of an automobile, the end portions of the bar being overlapped and connected together.

1,450,166. SIFTING TESTING MACHINE. WILLARD J. BELL, Newaygo, Mich. Filed July 5, 1919. Serial No. 308,811. 2 Claims. (Cl. 83—38.)

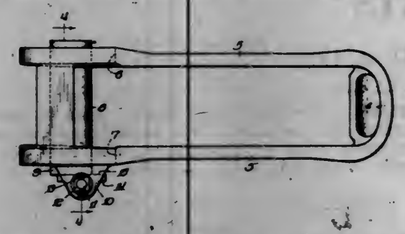


1. In a sifting testing machine, the combination of spaced shaking plates adapted to receive testing sieves therebetween, a series of connected resilient sieve-engaging arms interposed between said sieves and one of said plates, and a handle on one of said arms adapted to permit such arm to be swung away from said sieves to allow of removal thereof.

1,450,167. DRAWBAR YOKE. FREDERIC H. BENDER, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,493. 6 Claims. (Cl. 213—70.)

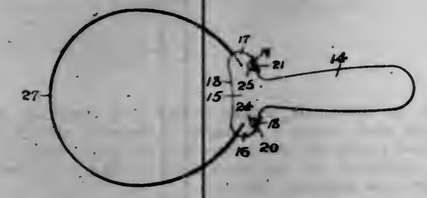
1. In combination with a draw bar yoke, a vertically extending key adapted to connect the yoke to a coupler,

said key having a limited horizontal movement relative to the yoke, and a removable supporting bearing for the pin, said bearing comprising a member having a flat



bearing face, and a transversely removable supporting member adapted to support the bearing member in such position that the latter may support the key.

1,450,168. IMPLEMENT FOR REMOVING JAR TOPS. EMIL BEYER, Newark, N. J. Filed July 27, 1920. Serial No. 399,358. 4 Claims. (Cl. 81—3.1.)



1. A tool or implement adapted for use as a separator for the sealing rubber and glass top of a jar, comprising a handle and horns at one end of the handle, said horns extending laterally from the opposite and longitudinally extending marginal edge-portions of the handle, and a thin wire loop attached at its respective ends to said horns, and at points upon the horns located beyond the longitudinally extending marginal edge-portions of said handle, one of said horns serving as a fulcrum against the neck of the jar, and the other horn serving as a pull-member and being adapted to be moved away from the neck of the jar when the handle is operated, so as to force the wire-loop either above or below the sealing rubber to provide an air-induction space for lifting the glass top from the jar.

1,450,169. DESK-STAND BASE. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1918. Serial No. 216,159. 12 Claims. (Cl. 179—147.)



1. A base plate for a desk stand provided with an annular peripheral groove, a strip of material adapted to fit into said groove, and a plurality of prongs formed integrally with said base plate adapted to be forced outwardly and upwardly to position and hold said strip of material in said groove.

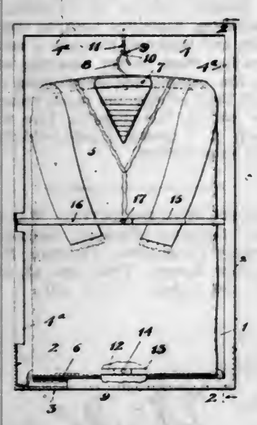
1,450,170. PNEUMATIC-TIRE CASING. PETER J. CLARKE, Chicago, Ill. Filed May 11, 1922. Serial No. 560,213. 19 Claims. (Cl. 152—8.)

14. A puncture proof tire casing comprising circular frames having oppositely disposed lateral flanges on their outer edges, a plurality of separate plates secured to said frames to form the side walls of said casing; and a cir-



cumferential tread member secured between said frames and adapted to rest on said flanges.

1,450,171. BOX FOR GARMENTS. ROBERT F. CUTHBERT, New York, N. Y., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,682. 2 Claims. (Cl. 206—7.)

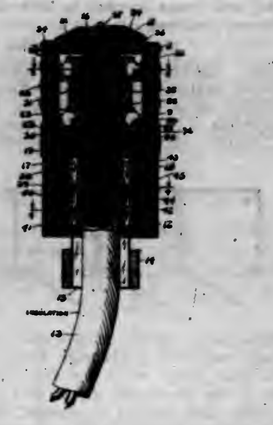


1. A device of the class described comprising a garment box having a strip extending about its upper edge, a hook secured in said strip at one end of the box and extending inwardly towards the bottom of the box, a garment-holding member adapted to engage a garment at one of its ends, a hook on said member adapted to resiliently interengage with the hook on the box, a tape extending across the garment intermediate of its ends and a tape engaging the garment at its end opposite to the garment supporting member.

1,450,172. SWIVEL-PLUG CONNECTOR. EDWARD DEWALD, Sr., Cincinnati, Ohio, assignor of one-half to Edward Dewald, jr., Cincinnati, Ohio. Filed Mar. 8, 1920. Serial No. 364,315. 1 Claim. (Cl. 173—359.)

In a swivel plug connector, a body, a spindle within the body, a ball race within the body for the positive pole and a ball race within the body for the negative pole of a source of current supply, each of said races having a ball contacting surface to support the bottom surfaces of balls located therein, a ball race on the spindle for each ball race in the body, each of said races having a surface to contact the top surfaces of balls located therein, balls within the races establishing electrical connection between the races for the positive and between the races for the negative poles of current supply, electrical con-

ductors attached to and extending from the body ball races through the body to one end thereof, electrical conductors attached to and extending from the spindle ball



races through the spindle to one end thereof away from the body conductors, and means at the body end and at the spindle end of the connector adapted to connect wires thereto.

1,450,173. ADJUSTABLE MULTIPLE DISK AND SHREDDING HAMMER. EDWARD H. FRICKEY, St. Louis, Mo. Filed July 30, 1919, Serial No. 314,244. Renewed Jan. 30, 1922. Serial No. 532,860. 5 Claims. (Cl. 83—11.)

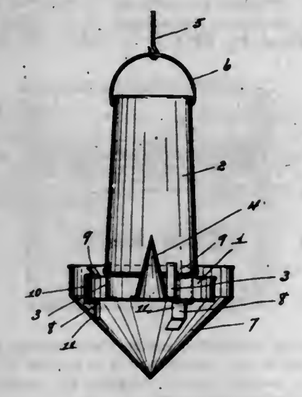


2. A device of the character described having a pivoted hammer consisting of a flat bar with its opposite edges having staggered recesses and its outer end being bent to one side and having an inclined surface between its opposite edges.

1,450,174. NICKELIFEROUS CATALYZERS AND PROCESS OF MANUFACTURING THE SAME. ALBERT GRANICHSTADTEN and EMIL SITTIG, Vienna, Austria. Filed Aug. 12, 1921. Serial No. 491,840. 4 Claims. (Cl. 23—28.)

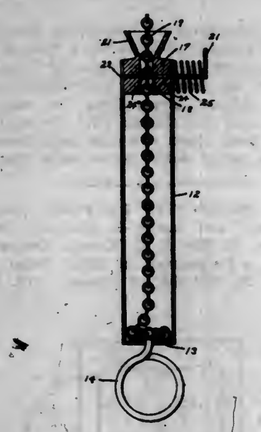
1. A process for manufacturing a nickeliferous catalyzer which consists in preparing a mixture of an aqueous solution of a nickel salt and of a magnesium salt, adding thereto an aqueous solution of water glass, whereby both the nickel and the magnesium are precipitated simultaneously in the form of a colloidal double silicate and in then washing, drying and grinding the precipitate and heating it in a current of hydrogen and permitting it to cool in hydrogen.

1,450,175. POULTRY FEEDER. WILLIAM E. HONSINGER, Round Lake, N. Y. Filed Apr. 7, 1921, Serial No. 459,434. Renewed Feb. 23, 1923. 1 Claim. (Cl. 119—52.)



A poultry-feeder having in combination an exteriorly accessible feed-tray; a feed-magazine leading to the feed-tray and mounted thereupon; a waste-tray circumferentially surrounding and extending beneath the feed-tray; and members permanently attached to the waste-tray having spring-hooks releasably engageable with the feed-tray.

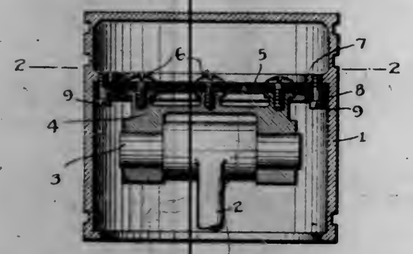
1,450,176. SUSPENDING ELEMENT. ALFRED HOPKINS, Boston, Mass., assignor to Hopkins Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1922. Serial No. 554,086. 3 Claims. (Cl. 288—3.)



1. A suspending element adapted to cooperate with an elongated chain suspended from an overhead support, said element comprising an elongated receptacle, open at one end to receive a chain, and closed at its opposite end to support a loose portion of the chain, a clutch at the open end of the receptacle, adapted to automatically grip

the chain at various distances from its support, said clutch having means whereby it may be rendered inoperative, to permit vertical adjustment of the receptacle on the chain, and a coupling part at the lower end of the receptacle, adapted to engage a suspended article, the arrangement being such that a portion of the chain depends loosely from the clutch, and is confined in the receptacle by the closed end of the latter.

1,450,177. INTERNAL-COMBUSTION-ENGINE PISTON. HENRI J. HOUPERT, Mamaroneck, N. Y. Filed Jan. 11, 1922. Serial No. 528,474. 1 Claim. (Cl. 74—108.)



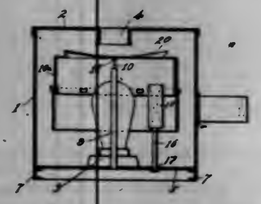
An internal combustion engine piston having a body, a bridge to which the connecting-rod is pivoted by a wrist-pin, and a flexible member forming the connection between said bridge and body.

1,450,178. SUPERHEATER FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, and THOMAS L. BURTON, New York, N. Y. Filed June 19, 1919. Serial No. 305,223. 1 Claim. (Cl. 122—480.)



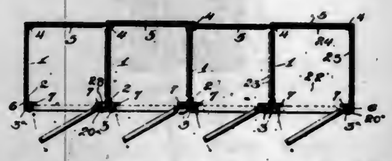
A superheater apparatus for locomotives comprising in combination, an auxiliary superheater, a damper for said auxiliary superheater, a steam operated supplemental power device on the locomotive, and means under the control of the exhaust steam from the supplemental power device to open said damper when the supplemental power device is using steam and close said damper when the supplemental power device is not using steam.

1,450,179. PROJECTING LANTERN. BERNHARDT BISCHOF ISAACS and JAMES E. MARQUA, Cincinnati, Ohio, assignors to The J. E. Marqua Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 12, 1922. Serial No. 551,995. 5 Claims. (Cl. 88—24.)



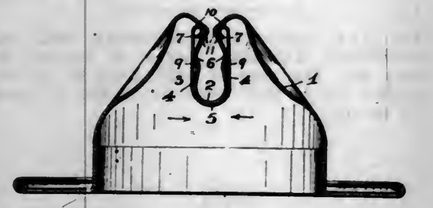
1. In a projection machine, the combination with a source of light and a projection lens, of a linear member formed with an object comprising a series of transparent letters to provide a text message through which the light will pass and thence through the lens to project an image of said object, and means for mounting said linear member in a circle about said light, and means for revolving the linear member in said circular form, for the purpose described.

1,450,180. CABINET CONSTRUCTION. CHARLES R. JAMISON, Canton, Ohio, assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio, a Corporation of New York. Filed Sept. 1, 1916. Serial No. 118,032. 10 Claims. (Cl. 45—37.)



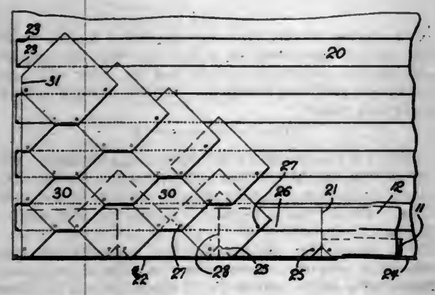
2. Sheet metal cabinet construction including a partition wall having a rectangular flange along one edge and an offset flange along the other edge, a back wall secured to the rectangular flange, and a U-shaped sheet metal door jamb having a straight flange secured to said offset flange coplanar with the partition wall.

1,450,181. CREASE-RETAINING DEVICE FOR HATS. JOSEPH KORN, Newark, N. J. Filed July 29, 1920. Serial No. 399,689. 3 Claims. (Cl. 2—108.)



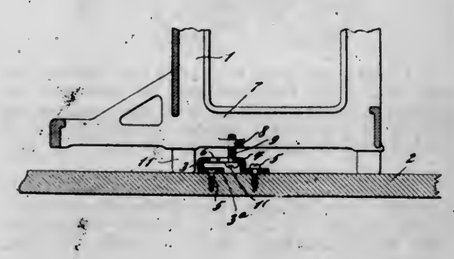
1. A crease-retaining device for hats comprising a pair of wings joined by a central portion, said device being substantially U-shaped in cross-section so as to be adapted to embrace the crease of a hat, the edge-portion of each wing being bent around in the form of a roll, said rolls providing oppositely located and longitudinally extending marginal beads.

1,450,182. ROOF STRUCTURE. ANTHONY LAMM, Brooklyn, and JOHN F. SCHROEDER, Middle Village, N. Y. Filed Apr. 7, 1921. Serial No. 459,349. 1 Claim. (Cl. 108—9.)



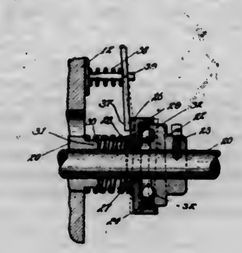
In a roof structure the combination with a foundation, of starter shingles laid thereon at the edge of the roof, said starter shingles consisting of an upper portion and a lower portion bent back beneath the upper portion, a spacing wire secured to said foundation and passing through all of said starter shingles between the upper and lower portions thereof, said starter shingles having the lower corners of their upper portions cut away to expose a portion of the said spacing wire therebetween, lattice shingles having means for engaging the said exposed portions of the wire passing through the starter shingles to cover the joints therebetween to form a first row of shingles, other lattice shingles similar to the lattice shingles aforesaid and adapted to be laid in successive rows to cover the said foundation and other spacing wires adapted to engage the said other lattice shingles to align the same in regular rows.

1,450,183. TYPEWRITER CLAMP. ELMER CLYDE MOON, Sheepshead Bay, N. Y. Filed Oct. 26, 1921. Serial No. 510,610. 3 Claims. (Cl. 45—52.)



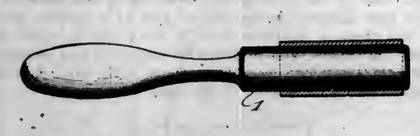
3. A device for securing a typewriting machine to a support, comprising a member attachable to the upper surface of the support and having a portion spaced from said surface, said spaced portion having therein a key-hole shaped aperture, a hook bar adapted to hook over a side frame bar of the machine, and a headed bolt threaded into the under face of the lower end of the bar, whereby when the bolt is passed head first through the larger end of the aperture, the shifting of the hook bar parallel with the surface of the support will carry the shank of the bolt into the narrow end of the aperture to lock the typewriter to the support.

1,450,184. MECHANICAL MOVEMENT. JAMES DUDLEY MOORE, North Wilkesboro, N. C. Filed Aug. 29, 1919. Serial No. 320,719. 7 Claims. (Cl. 74—14.)



2. In a mechanical movement, a driving member, a driven member, one of said members being provided with an end surface inclined with respect to a plane perpendicular to the axis of rotation of said member, a plurality of balls disposed between said members and resilient means for maintaining said other member in contact with said balls.

1,450,185. GAUGE PLUG. CHARLES E. MYERS, Canton, Ohio. Filed Aug. 20, 1920. Serial No. 404,936. 4 Claims. (Cl. 33—178.)

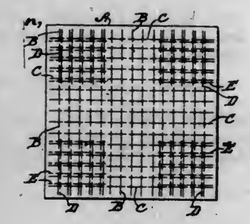


1. A gauge plug made of metal with diamond dust embedded in its working surface and smoothed to exact size.

1,450,186. METAL MOLD. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 14, 1922. Serial No. 529,381. 31 Claims. (Cl. 22—188.)

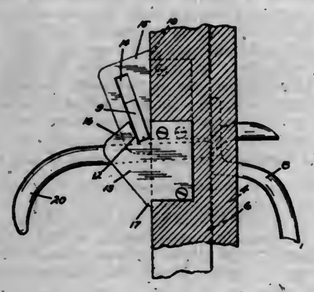
1. A mold for casting metals containing nickel and iron in alloyed relation.

1,450,187. REENFORCED FLOOR CONSTRUCTION. KARL R. SCHUSTER, Brooklyn, N. Y. Filed Jan. 16, 1919. Serial No. 271,358. 7 Claims. (Cl. 72—71.)



4. A floor construction wherein a composite plate tends to develop lines of fracture extending diagonally from the corners to the middle region of the plate, embodying two series of main rods extending substantially throughout the entire area of said plate, with the rods of one series crossing the rods of the other series, and shorter rods within the plate and in the areas thereof extending substantially from the middle region to the diagonal corners of said plate, said shorter rods crossing the undeveloped diagonal lines of fracture.

1,450,188. DOOR LATCH. EDWARD T. SHERMAN, Minneapolis, Minn. Filed July 27, 1920. Serial No. 399,366. 5 Claims. (Cl. 292—236.)



1. The combination with a door frame and a door hinged thereto, of a latch bar pivoted to the door and

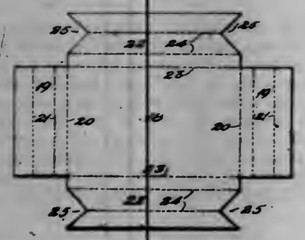
mounted to move in a pane that is oblique to the plane of the door, and a latch plate on the door frame having a lock shoulder with which said latch bar is engageable, the said lock shoulder being oblique and at a greater angle to the plane of the door than is the plane in which the latch bar moves, and a means of elevating and dropping the said latch bar into engagement with said shoulder under closing movement of the door.

1,450,189. FEED COLLET AND METHOD OF MAKING THE SAME. OSCAR A. SMITH, East Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 23, 1922. Serial No. 531,089. 26 Claims. (Cl. 29—156.)



1. A feed collet having a resilient gripping portion for the work and an expansible and contractible gripping portion for attachment to its support.

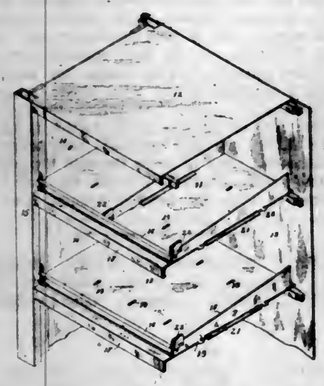
1,450,190. PICTURE-CARD FRAME. FREDERICK SONN, Woodmere, Long Island, N. Y. Filed June 9, 1922. Serial No. 567,020. 2 Claims. (Cl. 40—154.)



1. A frame formed from a single sheet of foldable material having a central body portion, and peripheral flaps each defined from the body portion by a fold line and each having a plurality of spaced fold lines parallel to the fold line defining the flap from the body, each of said flaps being bent on its fold lines to form a tube, said tube being folded over on the body, the ends of two opposite tubular members being provided with angularly cut portions, the ends of the remaining two tubular members being cut square and tucked into the ends of the tubular members having the angularly cut portions.

1,450,191. SHEET-METAL SHELVING. JOSEPH STURM, Canton, Ohio, assignor to United Alloy Steel Corporation, Canton, Ohio, a Corporation of New York. Filed Sept. 1, 1922. Serial No. 585,686. 8 Claims. (Cl. 211—27.)

1. A shelf having a bin front and a back wall and provided with spaced transverse slots, a bin partition having hooks on its lower edge engaging the shelf in the slots, and a movable extension on its end acting to lock the partition endwise in place.



2. A shelf having a bin front and a back wall and provided with spaced transverse slots, an abbreviated bin partition having hooks on its lower edge engaging the shelf in the slots, and a movable extension on its end acting to lock the partition endwise in place.

1,450,192. ATTACHMENT FOR AUTOMOBILE GASOLINE TANKS. LAWRENCE M. TAYLOR, Philadelphia, Pa. Filed Apr. 6, 1922. Serial No. 550,221. 1 Claim. (Cl. 158—46.5.)



The combination with a liquid containing tank having openings in the upper and lower walls thereof, a tube insertible through said openings and having on its upper end an indicia carrying plate, another tube mounted in said first mentioned tube and extending therethrough with its upper end bent at right angles and flattened to form a pointed actuating handle to overlie the indicia carrying plate, said inner tube being rotatable, and each of said tubes having longitudinally spaced apertures, the apertures in one tube being designed to be brought into register with those in the other on the turning of said pointer a predetermined distance.

1,450,193. FOLDING PUSH CAR. GEORGE THOMAS, Chelsea, England. Filed Dec. 27, 1921. Serial No. 525,187. 11 Claims. (Cl. 280—37.)

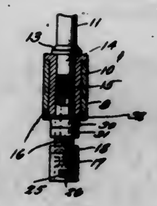
1. A folding push car comprising a bridge-like frame, a pair of brackets mounted so as to rotate in bearings on each side of said frame, wheels carried by each of said brackets so as to permit the same to fold into said frame, a pair of side members pivoted to said frame so as to support a folding back, a second pair of side members also

pivoted to said frame and adapted to support a seat and arms, means for securing said back, seat and arms in



erected position on said frame, and means for securing said wheels and their supporting brackets in their extended position.

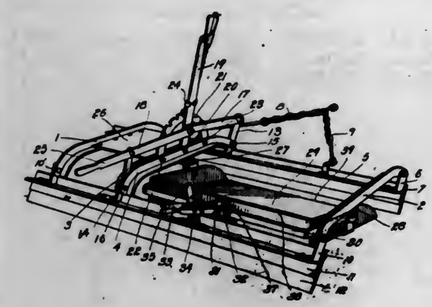
1,450,194. DIRIGIBLE HEADLIGHT. WILLIAM H. WALKER and HOBART GOFF, Parsons, Tenn. Filed July 11, 1921. Serial No. 483,863. 1 Claim. (Cl. 240—62.)



In combination with the connecting rod connecting the front wheels of a motor vehicle, a dirigible head lamp comprising a bracket, a tubular bearing positioned in the bracket, a hollow shaft having a threaded portion, a coupling in the lower end of the shaft and having an opening, a rod extending through the opening for operating the hollow shaft within the bracket member, a lamp supporting arm having a threaded extension adapted to be positioned in the threaded portion of the hollow shaft, said lamp supporting arm having a flange adapted to rest on the upper end of the bearing member to hold the lamp supporting arm against movement vertically, and means for connecting the rod and connecting rod, whereby movement of the connecting rod will result in a relative movement of the lamp supporting arm.

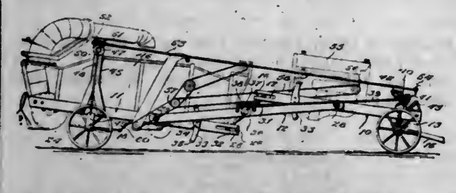
1,450,195. ROAD DRAG AND SCRAPER. EDWARD B. WINTERS, Coffeyville, Kans., assignor, by mesne assignments, to The Wichita Scraper Drag Company, Sedgwick County, Kans. Filed Mar. 3, 1921. Serial No. 449,462. 5 Claims. (Cl. 37—175.)

1. A road drag having spaced front and rear transverse blades and a pivoted shovel between them, the shovel being mounted for complete rotation about the axis of its pivots, means for engaging the rear portion of the shovel to hold it in operative position so that the normal bottom face of



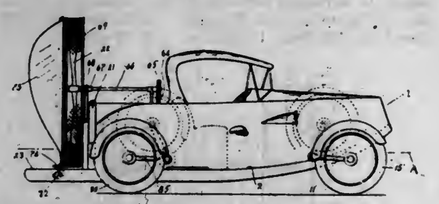
the blade of the shovel will serve as a platform, and means for releasably holding the first named means.

1,450,196. PORTABLE LEVELING APPARATUS FOR MOUNTED MACHINERY. WILLIAM HENRY WYLIE, Jennings, Kans. Filed Nov. 7, 1922. Serial No. 599,548. 10 Claims. (Cl. 280—6.)



1. A leveling apparatus of the class described comprising a front frame having a front axle and a rear frame having a rear axle, each frame being mounted to oscillate on its respective axle; connecting members for said frames, said members being journaled at their ends in the respective frames, and means carried by said members for altering the relative position of said frames.

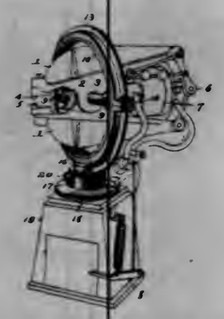
1,450,197. SPORT CAR. CLIFFORD J. ZWICKEY, North St. Paul, Minn. Filed July 11, 1921. Serial No. 483,799. 4 Claims. (Cl. 115—1.)



1. A sport car of the class described, comprising a body formed to float, means including a power unit for propelling said body, supporting wheels for supporting said body on land pivotally mounted to be swingable bodily upward when the body is afloat to a position above the water line, and to swing bodily downward by gravity to a predetermined degree when the body is afloat, releasable locking means including releasing means therefor, extending into engagement with a part of the pivotal mounting of said wheels to check upward movement of the latter

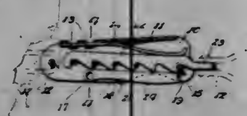
and render said releasing means inoperable, said releasing means being rendered operable by the downward swinging movement of said wheels.

1,450,198. RIVETING MACHINE. JOSEPH OSWELL BAILEY, Atlanta, Ga. Filed Oct. 26, 1921. Serial No. 510,518. 10 Claims. (Cl. 78—48.)



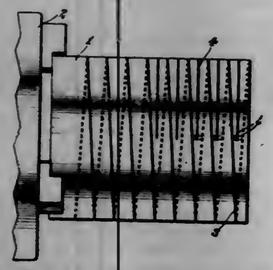
1. A riveting machine comprising in combination, complemental power actuated riveting elements, and supporting means adjustable about vertical and horizontal axes for effecting universal adjustment of the said elements.

1,450,199. LATCH DEVICE FOR SKID CHAINS AND THE LIKE. JAMES T. BARBEE, Brooklyn, N. Y. Filed Mar. 22, 1922. Serial No. 545,738. 5 Claims. (Cl. 24—206.)



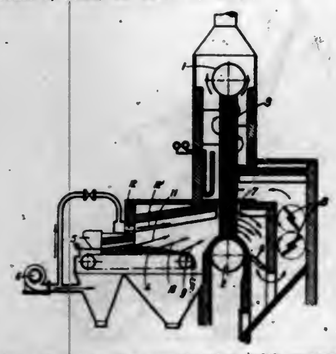
1. A skid chain fastener including a channel shaped body member, a cross pin extending between the sides of said member, a latch adapted to fit between said sides engaging the pin, and a trip member pivoted between the sides and operable to ride the latch out of engagement with the pin.

1,450,200. METHOD OF MAKING PISTON RINGS. JOHN H. BRUNINGA, St. Louis, Mo., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 13, 1919. Serial No. 282,294. 16 Claims. (Cl. 29—156.6)



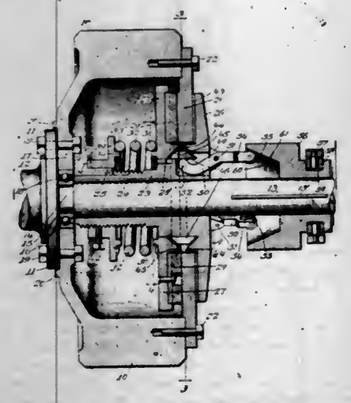
1. The method of making piston rings, comprising, cutting a body blank to form the side faces of a series of connected inverted ring blanks, cutting the body blank to provide the parting faces of the ring blanks, separating the ring blanks, and inverting the ends of the ring blanks.

1,450,201. MEANS FOR INSURING COMPLETE COMBUSTION OF COAL IN HEATING BOILERS. RODOLPHE WILLIAM BURCKHARDT, Mulhouse, France. Filed Aug. 10, 1920. Serial No. 402,731. 2 Claims. (Cl. 110—72.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a furnace, the combination with means for regulating the quantity of coal fed thereto and the volume of air blown in, of a first boiler element which abstracts a portion of the heat from the combustion gases, means for thereafter effecting a preliminary mixing of said gases, an obstructed passageway for subsequently causing a more thorough mixing of the gases thus cooled, and a second boiler element around which the complete combustion of the mixed gases and the final transfer of the heat to the boiler takes place.

1,450,202. CLUTCH. JOHN W. CROWLEY, Jr., Chicago, Ill. Filed June 25, 1919. Serial No. 306,607. 8 Claims. (Cl. 192—56.)



3. A clutch having in combinative association a flat ring clutch member, tapered transversely to provide a thinner edge and a diametrically opposite thicker edge; another, cooperating, axially movable, tapered clutch member; a spring to normally hold said clutch members in driving relation to transmit a given load and yieldable upon excess load and means to disengage said members.

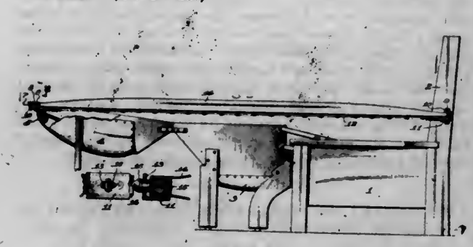
1,450,203. SCREW DRIVER. PETER DE BROWN, Bay City, Mich. Filed Nov. 25, 1921. Serial No. 517,517. 2 Claims. (Cl. 145—51.)

2. In a tool of the class described including a barrel provided with a screw receiving opening, and a plurality of yieldable fingers formed integral with the lower end thereof, said fingers being curved inwardly to form a restricted opening intermediate their length, the ends being flared, a screw driver slidably mounted in the barrel and provided with a shoulder formed on the lower end thereof,



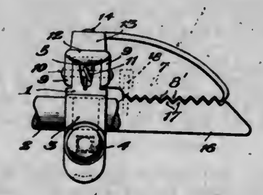
a closure for the upper end of the barrel, a coiled spring interposed between the said shoulder and the top of the casing, and a handle detachably secured to the upper end of the screw driver.

1,450,204. SPRING AND MATTRESS SUPPORTING MEANS. THOMAS B. DRAPER, Toronto, Ontario, Canada. Filed Sept. 7, 1920. Serial No. 408,655. 2 Claims. (Cl. 5—48.)



1. In a folding piece of furniture adapted to be used as a bed and having a foot piece foldable relative to a head piece, angle bars having sockets, mattress supporting bars, and turn buttons carried by said bars to engage in the angle bar sockets.

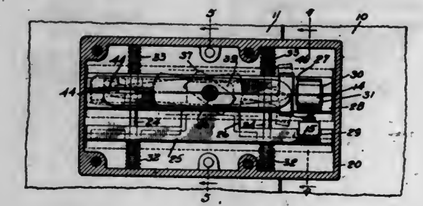
1,450,205. YARN AND THREAD GUIDE. FRED W. EASTON, Pawtucket, R. I., assignor to Easton & Burnham Company, Pawtucket, R. I. Filed Nov. 2, 1922. Serial No. 598,560. 5 Claims. (Cl. 28—71.)



1. In a thread guide, a pair of opposed members each formed with a series of teeth, said teeth intermeshing and

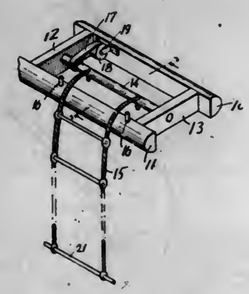
being spaced to receive the thread through the space formed between a tooth of one member and the cooperating tooth on the other member and in a direction at right angles to the pitch circles of said teeth.

1,450,206. LOCK. LOUIS FRIEDMAN, New York, N. Y. Filed Aug. 27, 1921. Serial No. 495,920. 5 Claims. (Cl. 70—74.)



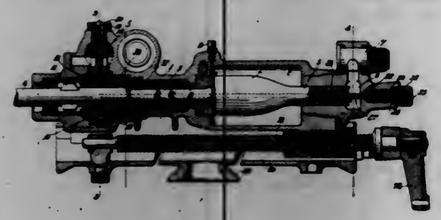
1. A lock comprising a housing, a plurality of sliding latches in said housing, a plurality of parallel rigid dogs, said dogs being adapted to pass between the sliding latches, and one of said dogs being engaged on opposite sides by said sliding latches, the other dog being engaged on one side by one of said sliding latches, and resilient means for maintaining said sliding latches and said dogs in engagement with one another.

1,450,207. WINDOW FIRE ESCAPE. JOZEF FRANK GAKEN, Dunkirk, N. Y., assignor of one-third to Lawrence Kuzdial, Dunkirk, N. Y. Filed Sept. 12, 1921. Serial No. 500,224. 2 Claims. (Cl. 227—22.)



1. A fire escape of the class described comprising a frame composed of pairwise arranged parallel side and end bars, a central roller journaled in said end bars, the inner faces of said side bars extended beyond the said end bars adapted to engage the window frame when the frame is placed on a window sill, a rope ladder secured at one end to said roller, a pair of pins in one of said side bars to limit the lateral movements of said rope ladder when uncoiled for the descent of a person, the last bar of said ladder having ends projecting beyond the lateral ladder ropes and adapted to engage the said pins when the ladder is wound upon said roller, and means for counterbalancing the weight of a person descending with said ladder.

1,450,208. ROCK-DRILLING APPARATUS. JAMES HANSON and RICHARD GREENWOOD HANSON, Stafford, England. Filed Oct. 6, 1920. Serial No. 415,119. 5 Claims. (Cl. 255—42.)



1. In a wave transmission rock drill, a reciprocating hammer member suspended in resonance between liquid columns, and a wave transmission motor operated by connection to the wave transmission line for imparting rotation to the drill steel, substantially as specified.

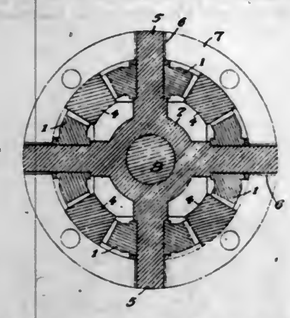
1,450,209. TIRE TOOL. FRED HAYS, Tuckahoe, N. J. Filed Aug. 7, 1922. Serial No. 580,145. 2 Claims. (Cl. 81—3.)



2. A tool for locating and removing foreign substances from tire casings comprising a relatively broad flat plate having a straight inner edge and a curved outer edge, a handle secured to the plate and projecting laterally from the inner straight edge thereof, and a hook formed on one side edge of the plate adjacent to the inner edge of the plate at one side of the curved edge for engaging the substance to be removed from the tire casing.

1,450,210. DIFFERENTIAL GEARING. JOHN A. HAZELTON, Baltimore, Md. Filed Mar. 7, 1922. Serial No. 541,713. 2 Claims. (Cl. 74—99.)

1. A differential gear, comprising bevel gears, secured on the ends of the halves of a divided shaft; bevel pinions meshing with said gears; a spider carrying said pinions; a driving casing, having a lost motion connection



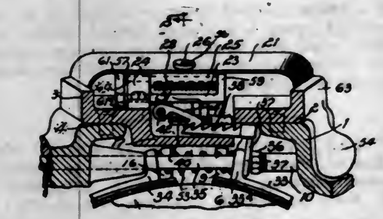
with said spider; and driving lugs, carried by said casing, and acting on the toothed faces of said pinions.

1,450,211. RATCHET PLATE AND DIE. ARLIE E. KOPP, New Middletown, Ind. Filed Oct. 15, 1919. Serial No. 330,725. 1 Claim. (Cl. 10—124.)



A tool of the class described comprising a casing having socket-like sleeves extending radially therefrom, handles mounted in said sleeves and having bores extending longitudinally thereof and communicating with said casing, an annular ratchet wheel mounted in said casing and having an opening therethrough which tapers toward one end, a die having a tapered portion to fit in said opening and a second oppositely tapered portion, said wheel having a groove adjacent its larger end and a small split ring clamp in said groove abutting on said second tapered portion of the die to lock said die in place.

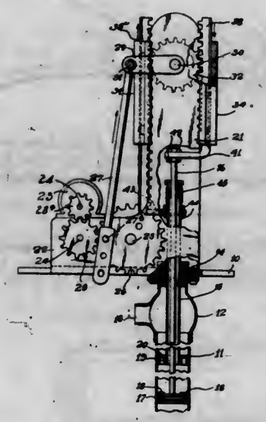
1,450,212. TRANSMISSION LOCK FOR AUTOMOBILES. ALBERT B. LANG, St. Louis, Mo. Filed July 20, 1921. Serial No. 486,132. 14 Claims. (Cl. 70—90.)



10. In an automobile having a casing, a drum and a band within the casing co-operating with the drum, in combination with a rack associated with the band, a pawl normally disposed out of engagement with the rack, and means for setting the pawl in a position to co-operate with the rack whereby the band will be locked against return when the same is tightened upon the drum.

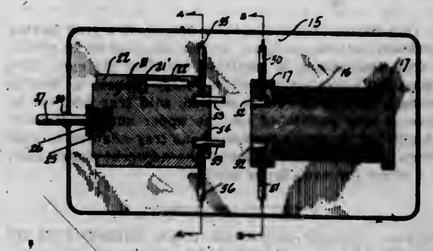
1,450,213. DOUBLE-ACTING DEEP-WELL PUMP. RUSSELL C. LEGO, Beaver Falls, Pa. Filed May 15, 1922. Serial No. 560,980. 3 Claims. (Cl. 103—200.)

1. In a pump, a barrel, a pair of pistons operating therein, a tubular piston rod connected to one of said pistons, a solid piston rod passing through the tubular piston rod and connected to the other piston, a packing gland at the upper end of the tubular piston rod, a supporting structure including oppositely disposed, vertical guides, oppositely disposed, vertically reciprocating rack



bars mounted in said guides and T-shaped in cross section, each of said rack bars being operatively connected to one of the piston rods, an intermediate shaft between said rack bars, a gear wheel engaging said shaft, and means oscillating said shaft.

1,450,214. ELECTRICALLY-OPERATED VEHICLE SIGNAL. LEE MCGUIRE, Paint Lick, Ky. Filed Dec. 26, 1919. Serial No. 347,492. 4 Claims. (Cl. 200—87.)



4. In an electrically operated device for vehicle signals, a casing, an electromagnet disposed in the casing adjacent to one end thereof, a guide shell disposed in the casing adjacent to the opposite end thereof and in alignment with the magnet, an armature for the electromagnet reciprocably mounted in the guide shell, the guide shell having a longitudinally extending guide groove formed in the inner face thereof, a stop pin carried by the armature and disposed in the groove, a socket of insulation fitted in the outer end of the armature, and an operating rod fitted in the socket and extending exterior of and supported by the casing.

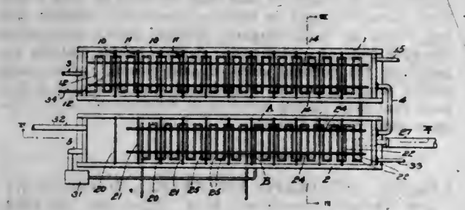
1,450,215. PUMP. GEORGE B. MAEGLY, Houston, Tex. Filed Jan. 31, 1922. Serial No. 532,965. 14 Claims. (Cl. 103—204.)

1. In a device of the character described, the combination with a pump for removing liquid from a well, of a sand screen for said pump, a pump barrel above said screen and means for flushing said screen through said



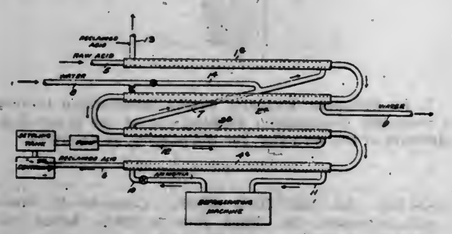
pump barrel from above without removing said pump from the well.

1,450,216. METHOD OF AND APPARATUS FOR RECOVERING SPENT PICKLING SOLUTIONS. HENRY S. MARSH and RALF S. COCHRAN, Youngstown, Ohio. Filed Dec. 24, 1920. Serial No. 432,952. 34 Claims. (Cl. 23—13.)



1. The method herein described of reclaiming spent pickling solution, which consists in causing the solution to flow in a looped circuit, the return branch of the circuit confined within heat-conducting walls being submerged in the outgoing branch, and cooling the stream in the loop of the circuit.

1,450,217. METHOD OF AND APPARATUS FOR RECLAIMING SPENT PICKLING SOLUTION. HENRY S. MARSH and RALF S. COCHRAN, Youngstown, Ohio. Filed Aug. 3, 1921. Serial No. 489,545. 9 Claims. (Cl. 23—13.)



6. In apparatus for unburdening a solvent of its load of salt, a loop formed conduit with branches in heat-ex-

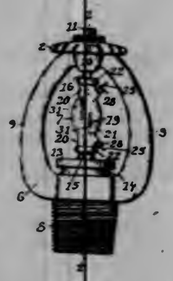
changing relation one to the other, cooling means arranged at a point intermediate the length of the inflowing branch of the conduit, a second cooling means arranged in the loop of the conduit, and separating means arranged in the loop of the conduit beyond the cooling means last mentioned, substantially as described.

1,450,218. PORTABLE AND COLLAPSIBLE SHOWER BATH. CHRIST NENOFF, Pittsburgh, Pa. Filed Sept. 6, 1922. Serial No. 586,432. 1 Claim. (Cl. 4—26.)



A device of the character described comprising a flanged base; a supporting ring; a pliable mantle partially engaging the periphery of said base and ring to form a vertical chamber having an entrance; vertically slidable closing means for said entrance; flexible guides engaged by the open ends of said mantle; flexible guides slidably engaged by the vertical sides of said closing means; said guides being connected to said base and ring and so disposed that said closing means will frictionally engage the open ends of said mantle.

1,450,219. AUTOMATIC SPRINKLER. ROBERT WILKINSON NEWTON, Providence, R. I. Filed Dec. 19, 1921. Serial No. 523,494. 7 Claims. (Cl. 169—38.)



1. An automatic sprinkler having incorporated therein a reversible thermometer forming one of the controlling elements of the sprinkler, for the purpose as described.

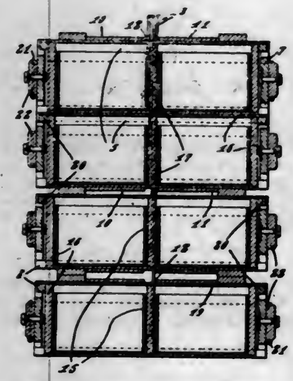
1,450,220. SAW-SETTING TOOL. CHARLES P. NIESMAN, Freeport, Ill. Filed June 3, 1921. Serial No. 474,658. 5 Claims. (Cl. 76—64.)

3. A saw setting tool comprising a body, an anvil formed on the body, a pair of operating handles carried by the body, a die pivotally secured intermediate its ends and operatively connected to one of said handles, upper and lower angle tooth setting gauges pivotally carried by the body and arranged for movement toward and away from



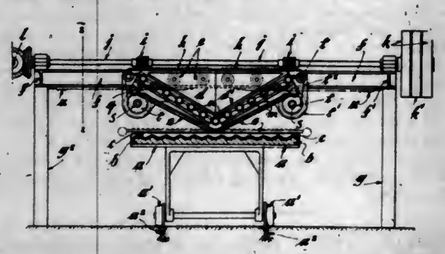
the inner face of the anvil, and a sliding toothed gauge mounted upon the body inwardly of the first mentioned gauges and arranged for movement longitudinally of the anvil.

1,450,221. BERRY-PICKER OUTFIT. GEORGE HARWOOD OWENS, Addison, N. Y. Filed Nov. 15, 1921. Serial No. 515,316. 3 Claims. (Cl. 217—13.)



1. In a device of the character described, a tray having a sectional bottom, an inner section adapted to fit within the tray and having a partition dividing the same into compartments to accommodate berry boxes, a handle forming a part of the inner section, said tray adapted to receive a tray positioned on the upper surface thereof, the handle of the inner section of one tray adapted to pass between the sectional bottom of the adjacent upper tray, and a cover for each inner section.

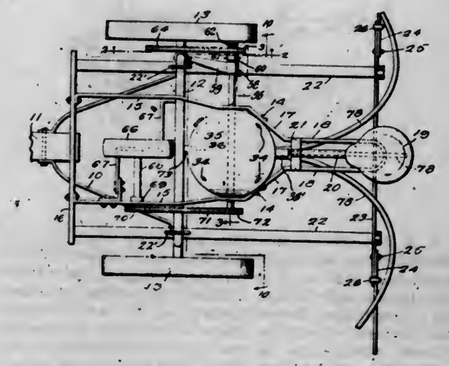
1,450,222. CORRUGATING OR LIKE TREATMENT OF SHEET PLASTIC MATERIALS. WILLIAM PATTISON, Widnes, England. Filed May 29, 1920. Serial No. 385,353. 4 Claims. (Cl. 154—30.)



1. In the method of corrugating or shaping asbestos-cement and like sheet plastic materials progressively from a point central to the width of the sheet towards

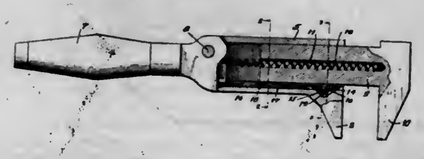
each side edge by upper and lower formers, supporting the sheet clear of the lower former and upon inclined travelling supports, whereby the upper formers as they act on the material are relieved of the dead weight resistance and a considerable part of the friction of the uncorrugated parts of the sheet substantially as herein set forth.

1,450,223. POWDER-DUSTING ATTACHMENT. ELBERT B. RALEY, Mart, Tex. Filed July 6, 1920. Serial No. 394,119. 3 Claims. (Cl. 43—148.)



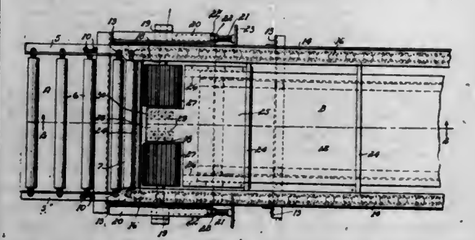
1. In an attachment for a cultivator or the like including an arched axle, an inner longitudinally extending attaching frame disposed above and contacting with the arched portion of the axle, a blower arranged upon the forward side of the arched axle and connected with the attaching frame to be supported thereby, a hopper arranged upon the rear side of the arched axle and connected with the attaching frame to be supported thereby, a pressure chamber for receiving material from the hopper and connected with the blower to receive air under pressure therefrom, means to drive the blower, an outer supporting frame extending longitudinally beneath the arched portion of the axle and suspended therefrom, means connecting the forward end of the attaching frame with the forward end of the outer supporting frame, a transverse supporting bar connected with the rear end of the outer supporting frame, and a plurality of conduits connected with the pressure receptacle and adapted to be supported by the supporting bar.

1,450,224. WRENCH. FRANK S. RATCLIFFE, Milwaukee, Wis.; Ira M. Jones, administrator of said Frank S. Ratcliffe, deceased, assignor to Emily Ratcliffe, Milwaukee, Wis. Filed June 5, 1920. Serial No. 386,907. 8 Claims. (Cl. 81—154.)



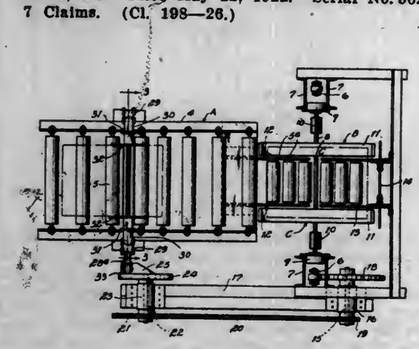
1. A wrench comprising a pair of slidably connected shanks, work engaging jaws carried by said shanks, a handle pivotally connected with one of the shanks, means operable by pivotal movement of the handle in one direction for locking the shanks against relative movement, said means being releasable by movement of the handle in the opposite direction, cooperating means on the hande and one shank for limiting the pivotal movement of the handle, and means for normally urging the jaws of the said shanks together.

1,450,225. CONVEYER. AUGUST J. REBSTOCK, St. Louis, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 11, 1921. Serial No. 483,752. 15 Claims. (Cl. 198—168.)



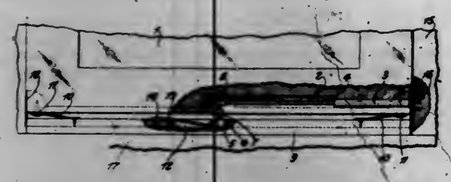
1. In a conveyer comprising a package way and spaced traveling devices for propelling packages along the same, a feeding device operatively connected with said traveling devices and projecting above said way, said devices passing above and below said way and upwardly around the receiving end of said way and said feeding device, the receiving end of said way having a stop rigid therewith and located inside of the path of the traveling devices, and means for feeding a package against said stop, whereby said package will be engaged by an upwardly moving traveling device and lifted clear of said stop and deposited upon said feeding device which feeds said package upon said bed in a position to be engaged at its rear end by a succeeding traveling device.

1,450,226. CONVEYER. AUGUST J. REBSTOCK, St. Louis, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo. Filed May 22, 1922. Serial No. 562,694. 7 Claims. (Cl. 198—26.)



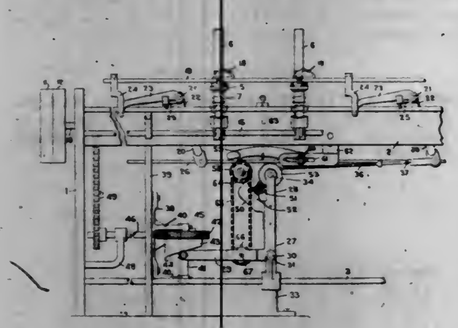
1. The combination with a traveling package conveyer and a stationary package way communicating with said conveyer, of package engaging devices disposed on opposite sides of said way and arranged for joint movement towards and away from each other into and out of a line of packages on the way, and means operating in timed relation to said traveling conveyer for moving said package engaging devices away from each other to permit a package to pass therebetween.

1,450,227. ATTACHMENT FOR DOORS. GEORGE EDWARD REED, Greenville, Miss., assignor of one-half to J. A. Mann, Greenville, Miss. Filed Feb. 4, 1922. Serial No. 534,142. 4 Claims. (Cl. 20—68.)



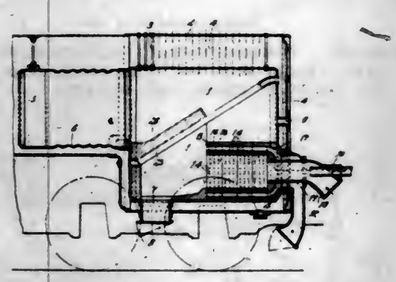
1. The combination of a door frame, a door hinged in the frame, a strip removably secured to each side of the lower end of the door, a number of springs supported for sliding movement by the lower end of the door between said strips, a transverse strip supported by said springs between said metallic strips and having a recess in its upper side between said springs, an additional spring supported by said transverse strip and arranged to operate in said recess, a lever supported by the door above said additional spring and said recess, and means for actuating said lever as an incident to the closing of the door to cause said additional spring to move said transverse strip downwardly toward the lower part of the door frame in opposition to said first named springs.

1,450,228. WINDING MACHINE. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 22, 1922. Serial No. 562,606. 2 Claims. (Cl. 242—43.5.)



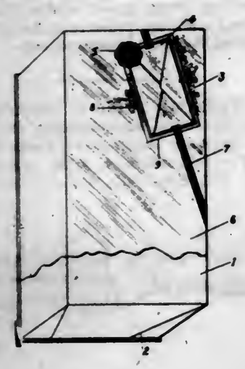
1. A winding machine comprising a frame, a series of yarn receivers and means for rotating them, a series of yarn carriers, a traverse rod provided with guides through which the yarn passes from the respective yarn carriers to the corresponding yarn receivers, lifting means for the traverse rod, a bell crank lever fulcrumed on the frame, a drum journalled on one end of the bell crank lever, a flexible connector connected to the drum and to the traverse rod lifting mechanism, a cam acting on the other end of the bell crank lever, means for rotating the cams to rock the bell crank lever and thereby effect a filling traverse of fixed length, and a pick motion mechanism mounted on the bell crank lever, actuated upon the rocking of the bell crank lever to give a partial winding rotation to the drum and thereby effect a progressive shift of the zone of traverse during the winding operation, whereby the yarn is wound onto the receivers with a filling wind.

1,450,229. FURNACE OF LOCOMOTIVES. JOHN GEORGE ROBINSON, Fairfield, England. Filed June 9, 1920. Serial No. 387,746. 2 Claims. (Cl. 110—22.)



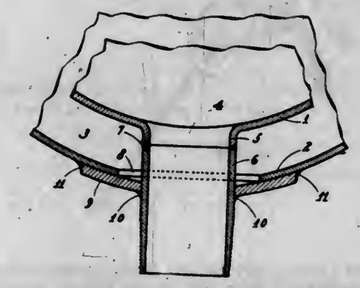
1. A furnace for a steam generator, comprising in combination, a shell, a firebox disposed in spaced relation within said shell so as to form a continuous water space surrounding said firebox, a cylindrical combustion chamber of refractory material located in the lower part of said furnace, an annular space around said combustion chamber which space is open to the atmosphere at its outer end, a plurality of perforations in said combustion chamber effecting communication between the interior of the same and said annular space, means for projecting liquid fuel into the interior of said combustion chamber, and a cylindrical corrugated extension of said firebox which extends rearwardly from the usual brick arch of the furnace and terminates in a tube plate which effects closure of the inner end of said corrugated extension.

1,450,230. WRAPPER FOR CANDY-BOX COVERS. JAMES H. ROOK, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,484. 1 Claim. (Cl. 229—87.5.)



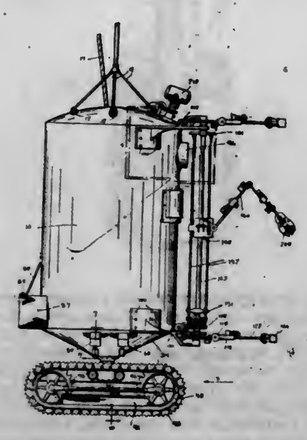
A wrapper for box covers having a pocket in the form of an envelope attached thereto and a piece of transparent paper surrounding the wrapper, said transparent material being slit and perforated adjacent said pocket.

1,450,231. METHOD OF MAKING STEAM-JACKETED KETTLE OUTLETS. ROBERT FLOYD SALISBURY, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1922. Serial No. 545,390. 10 Claims. (Cl. 113—112.)



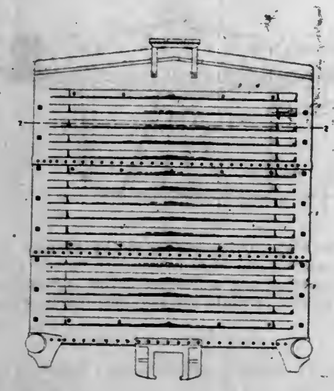
1. The method of forming an outlet for steam jacketed kettles comprising spaced metallic walls which consists in hermetically joining a tubular metal body to one of said walls and permitting the same to extend through and beyond an aperture in the other wall, embracing the body with a close fitting apertured disk, welding the disk to the body, cooling the disk, and welding the disk to the second named wall.

1,450,232. SUBMARINE SALVAGE VESSEL. JOHN C. SETLOW, Spokane, Wash. Filed Mar. 6, 1920. Serial No. 363,653. 15 Claims. (Cl. 61—69.)



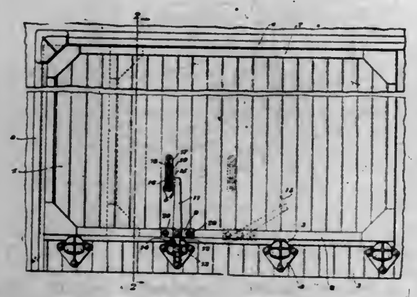
1. In a submarine salvage vessel, a water tight shell, tractor devices positioned beneath said shell for maneuvering said vessel while resting on bottom, a universal joint connecting said tractor devices to said shell to enable said shell to remain upright in the water when said tractor devices are resting on uneven bottom, electric motors operatively connected to said tractors to drive same, means for conveying electricity to said motors, and means positioned within said shell for controlling the flow of electricity to said motors.

1,450,233. CORRUGATED-METAL END FOR FREIGHT CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Oct. 1, 1920. Serial No. 414,057. 17 Claims. (Cl. 105—410.)



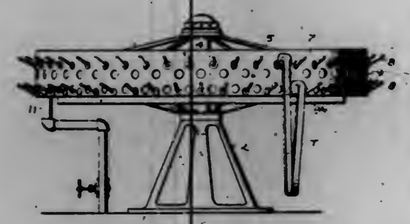
1. A metal panel for car ends having a plurality of corrugations therein formed with arcuate contours which merge into substantially rectangular contours.

1,450,234. COMBINED DOOR CLOSER, STARTER, AND LOCK. ARTHUR E. SMALL, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed May 16, 1921. Serial No. 470,080. 2 Claims. (Cl. 292—205.)



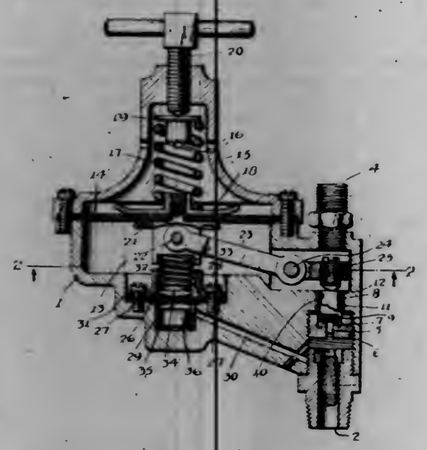
1. A freight car side door closer and starter comprising a lever having a perforated boss pivotally mounted therethrough to the door adjacent its bottom edge, said lever comprising an operating handle extending upwardly from said boss and spaced apart from the door surface and a portion depending from the boss in line with the handle and adjacent the door surface, and a stationary engaging member secured to the car side comprising a bracket having an extension provided with an aperture adapted to receive the free end of the depending portion of the lever with the side walls of the aperture acting as a fulcrum for the lever when the lever is moved about its pivot.

1,450,235. MACHINE FOR USE IN MANUFACTURING TIRE TUBES. HARRY W. SMOLK, Cleveland, Ohio. Filed June 29, 1920. Serial No. 392,667. 10 Claims. (Cl. 34—12.)



1. A traveling carrier having means adapted to suspend the splicing end of a divided tire tube in slip connection thereupon and a heating device paralleling said traveling carrier opposite the said suspensory means for said tire.

1,450,236. PRESSURE REGULATOR. JAMES L. ANDERSON, Bayonne, and STUART PLUMLEY, Westfield, N. J., assignors, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1918. Serial No. 257,138. 11 Claims. (Cl. 50—26.)



1. A pressure-regulator comprising a suitable casing having inlet and outlet portions and a connecting passage commanded by a valve, a diaphragm subject to the outlet pressure, a regulating spring acting upon said diaphragm in opposition to the outlet pressure, and an operative connection between the diaphragm and the valve, combined with an auxiliary diaphragm subject to the inlet pressure, and a resilient interconnection between the auxiliary diaphragm and the valve.

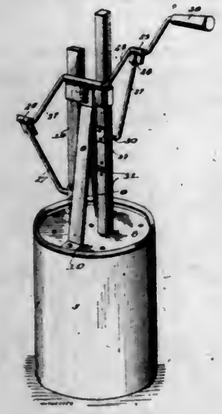
1,450,237. ANIMAL POKE. DEE AYERS and HAL DEE FOSSETT, Mount Vernon, Mo. Filed Mar. 21, 1922. Serial No. 545,439. 4 Claims. (Cl. 119—141.)

1. An animal poke comprising a stem provided with forwardly extending spikes, forks at the upper end of the stem, devices attached to said forks for securing the latter to a halter at opposite sides of the jaws of an animal to which the halter is applied, a curved wire member carried by said forks in position to span the nose of the



animal, and a similar wire member carried by the forks in position to span the lower jaw of the animal, whereby the poke is reversible.

1,450,238. CHURN. DEE AYERS and HAL DEE FOSSETT, Mount Vernon, Mo. Filed May 29, 1922. Serial No. 564,507. 1 Claim. (Cl. 259—113.)



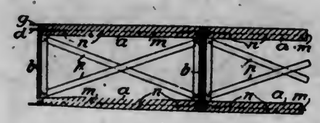
A churn comprising a receptacle, a closure carried thereby, a frame mounted on said closure and inclusive of a pair of converging standards, a bearing member formed from a single length of metal bent intermediate its ends to provide a transverse bearing opening and a pair of attaching plates, said attaching plates being arranged flatly in contact with each other and being confined between the upper portions of said standards, a crank shaft extending through said transverse bearing opening and having oppositely arranged cranks, a guide strip having its intermediate portion confined between the upper portions of said standards and having its end portions arranged in U-shaped formation and co-operating with said bearing member in defining a pair of vertical guide openings, dasher rods movable through said vertical guide openings and through said closure and guided thereby, pitman rods connected to said dasher rods and said crank shaft, and fastening devices extending through the upper portions of said converging standards, the intermediate portions of said guide strip and the attaching plates of said first named bearing member.

1,450,239. HAIRPIN. WILLIAM S. BECHTOLD, Newark, N. J. Filed May 26, 1922. Serial No. 563,750. 8 Claims. (Cl. 132—52.)



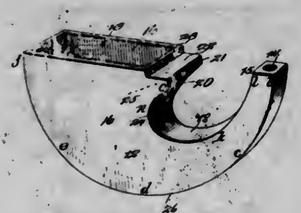
1. In a hair pin, in combination, a back, a plurality of superimposed legs and a retaining member carried by the back and extending between the legs.

1,450,240. BUILDING UNIT. HANS BEIERBACH, Mannheim, Germany. Filed June 24, 1922. Serial No. 570,699. 6 Claims. (Cl. 72—44.)



1. A building unit comprising a pair of concrete slabs spaced apart, metal strips let in the side edges of said slabs and having apertures therein, projections from the side edges of said slabs extending through said apertures and struts having apertures at each end for engaging said projections, said struts connecting the slabs together.

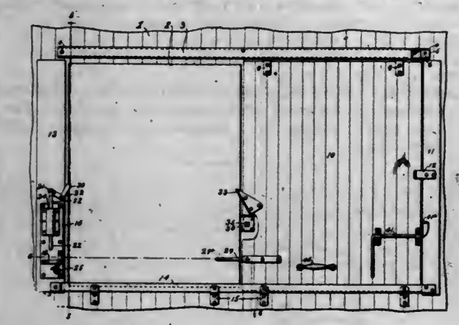
1,450,241. AMPLIFIER FOR TALKING MACHINES. JOSEPH F. BIGGS, Richmond, Va. Filed Aug. 12, 1920. Serial No. 403,177. 10 Claims. (Cl. 181—27.)



2. A sound amplifier comprising an upper arcuate form wall for transmission of vibrations, an opposite wall of arcuate form constructed on a greater radius than the upper wall, sound vibrating side walls disposed in diverging directions from the smaller end of the amplifier to the outlet end thereof and connecting said opposed arcuate walls, and means constructed, in the upper arcuate wall adjacent the outlet end for retarding and synchronizing the vibrations with those which are transmitted along the arcuate wall of greater radius, whereby all vibrations may reach the outlet end of the amplifier simultaneously.

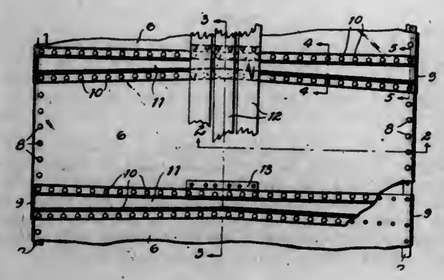
1,450,242. CAR-DOOR FASTENER. JOSEPH E. BLALOCK, Salisbury, N. C. Filed June 2, 1921. Serial No. 474,538. 4 Claims. (Cl. 292—182.)

1. The combination of a door, an apertured keeper therefor, a sealing mechanism adjacent to the door opening and including a plunger movable through said keeper, said sealing mechanism being formed with an opening through which said keeper projects when the door is closed, a holder for a sealing strip, and means on the



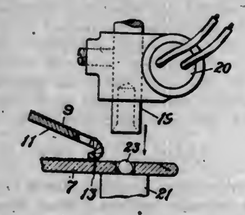
door to actuate said plunger and cause it to co-act with said holder for looping and locking the sealing strip through said keeper.

1,450,243. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed May 24, 1922. Serial No. 563,225. 14 Claims. (Cl. 108—5.4.)



1. A car roof comprising a series of roof sheets connected along their side margins by hollow box-girder seams, one wall of a seam extending in a straight line transversely of the car substantially at right angles to the eaves ends of the sheets, and the opposite wall of said seam diverging from said transversely extending straight wall on opposite sides of the ridge.

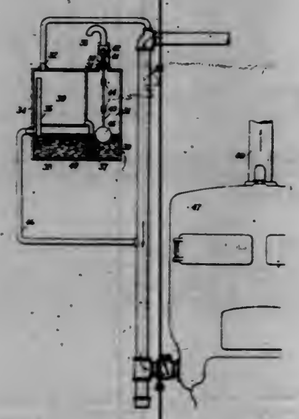
1,450,244. ART OF FINISHING THE EDGES OF PERFORATIONS. JAMES A. BROGAN, Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 26, 1919. Serial No. 340,706. 12 Claims. (Cl. 12—146.)



1. That improvement in the art of finishing a perforation in a piece of material which comprises applying

simultaneously at all points around the perforation on one side of the material a shrinking agent to cause the edge of the perforation to curl from the opposite side toward the side to which the shrinking agent is applied.

1,450,245. ELASTIC-FLUID-CONTROLLING DEVICE. ALFRED L. BROWNE, East Orange, N. J. Filed Feb. 18, 1921. Serial No. 446,030. 14 Claims. (Cl. 137—122.)



1. In combination, means forming a chamber, means forming a second chamber at all times in communication with said first chamber through a liquid seal, an elastic fluid conduit connected to one of said chambers, an elastic fluid conduit connected to the other of said chambers, and liquid-level-controlled means for opening and closing communication between said conduits.

1,450,246. PIEZO-ELECTRIC RESONATOR. WALTER G. CADY, Middletown, Conn. Filed Jan. 28, 1920. Serial No. 354,359. 6 Claims. (Cl. 179—171.)



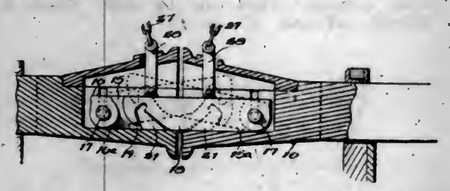
1. The combination with an alternating current circuit of high frequency, of a means for reducing the flow of current therein at any particular frequency comprising a body of piezo-electric character with conductive coatings over the regions thereof which exhibit opposite electrification, and connected with the alternating current circuit, the said body being so designed that its natural frequency of vibration will be in mechanical resonance with the said particular frequency of the alternating current.

1,450,247. ATTACHMENT FOR HENS. CHESTER E. CARPENTER, Aberdeen, S. Dak. Filed Sept. 12, 1922. Serial No. 587,844. 5 Claims. (Cl. 119—97.)

1. An attachment for hens including a member to be received on one leg of the hen, a poke pivoted thereto and normally disposed in a position parallel to the member, and means operated by the hen's toes upon assuming a setting position to swing the poke at right angles to the member.

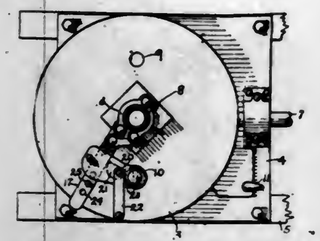


1,450,248. COUPLING FOR RAILWAY CARS. MELVIN K. CARR, Bremerton, Wash. Filed June 16, 1921. Serial No. 477,988. 3 Claims. (Cl. 213—89.)



3. In a coupling of the character described, a housing having a chamber, a swinging coupling bar pivoted to said housing within the chamber and projecting therefrom a hook carried by the outer end of the coupling and having a bill provided with a curved face, said coupling bar having a seat formed therein adjacent said hook, and a lock lug carried by the coupling bar having a cam face and an inclined shoulder at the upper end thereof.

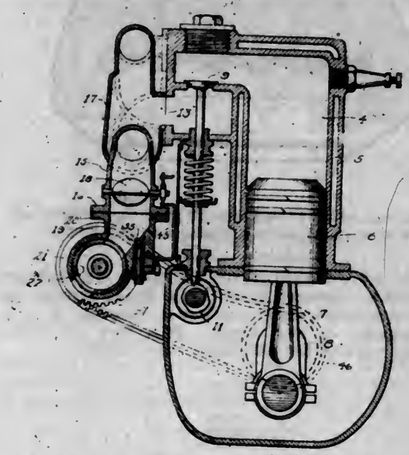
1,450,249. BACKOUT DEVICE FOR DRILLING RIGS. WILLIAM L. CHILDS, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Sept. 10, 1921. Serial No. 499,643. 8 Claims. (Cl. 255—23.)



1. In a device of the character described, a rotary table, a backout post secured therein comprising an upright pin, a bracket slidable vertically thereon, a spring on said pin bearing against said table and said bracket, said bracket having a handle receiving slot therein, a cam shaped lever in said slot, and means to swing said lever laterally in said slot.

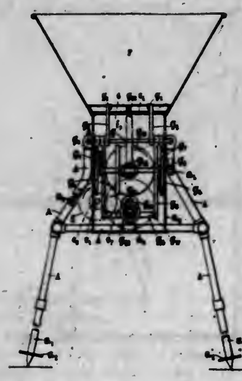
1,450,250. INTERNAL-COMBUSTION ENGINE, METHOD OF AND MEANS FOR FEEDING THE SAME. DON COLN, Chicago, Ill., assignor of one-half to John A. Dienner, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,452. 1 Claim. (Cl. 123—119.)

In combination, an engine having the usual main shaft, engine cylinder, piston, cam shaft, intake and exhaust valves, and a cam on said cam shaft for positively actuating said intake valve, an intake manifold extending upwardly along said engine cylinder and communicating with said intake valve, said intake manifold comprising a cylindrical valve chamber at its lower end, said valve chamber having an air port extending longitudinally thereof and opening into the bottom portion of said chamber, a cylindrical rotary intake valve in said valve chamber, said valve having a pair of diametrically opposed slots constituting a passageway therethrough for registration with said air port, a chain for driving said rotary intake valve in synchronism with said main shaft, a fuel nozzle discharging into said intake manifold in close proximity to said rotary intake valve, said fuel nozzle



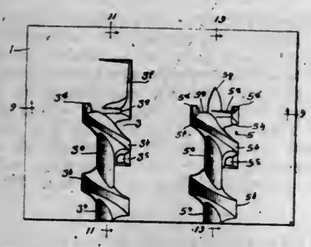
comprising an outer sleeve threading into said manifold and an inner spaced concentric tube extending through said sleeve, the bore in said sleeve and the bore in said tube constituting two separate passages, means for admitting fuel to one of said passages and a restricted volume of air to the other of said passages, said rotary intake valve discharging into said manifold at a point immediately anterior to said nozzle whereby the volume of air admitted through said intake valve is directed into immediate contact with said nozzle in its passage upwardly through said manifold, a restriction in said manifold for accelerating the flow of air past said nozzle, a throttle valve in said manifold, and means operating conjointly with the throttle valve for metering the discharge of fuel from said nozzle.

1,450,251. ABRADING MACHINE. ALFRED EDWIN CULLEY, Burton-upon-Trent, England. Filed Sept. 25, 1922. Serial No. 590,493. 15 Claims. (Cl. 146—14.)



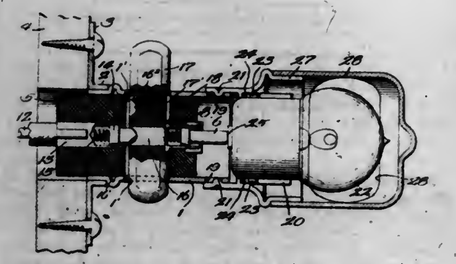
1. In an abrading machine, in combination;—an abrading drum having a toothed cylindrical surface; means for rotating the drum; a fixed feed channel adapted to guide the material to be abraded in an axial direction along the drum; and a series of spiral springs the coiled parts of which are carried by, and within the interior of the drum, said coiled parts having ends which protrude through openings in the surface of the drum, said openings being helically arranged round the surface of the drum, so that as the drum rotates the several ends cross the feed channel at different and uniformly spaced points in its length.

1,450,252. MECHANISM FOR MANUFACTURE OF AUGER BITS. BENJAMIN H. DAULTON and CHARLES B. ROBINSON, Wilmington, Ohio, assignors to The Irwin Auger Bit Company, Wilmington, Ohio, a Corporation of Ohio. Filed Feb. 7, 1921. Serial No. 442,899. 7 Claims. (Cl. 76—92.)



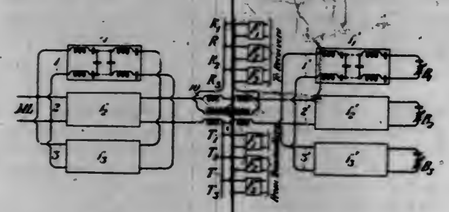
1. In a die for the production of auger bits, the combination, with one die member having core and spiral recesses, a spur recess at one side of the center and a pyramid recess at the other side, and a recess for surplus material, of a second die member having core and spiral recesses and spur and pyramid recesses, and a surplus material recess, the said recesses adapted to coact with the similar recesses in the other die member.

1,450,253. SWITCHING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918. Serial No. 250,023. 1 Claim. (Cl. 173—355.)



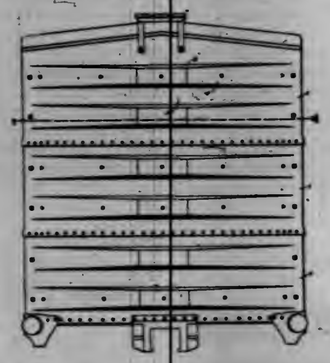
Switching mechanism including a shell; a bar of insulating material passing transversely through the shell and movable transversely and longitudinally of the shell; aligned contacts held within the shell; and a switching contact simultaneously engagable with said aligned contacts and carried by and extending transversely through said bar and movable by the bar into and out of alignment with said aligned contacts to close and open circuit, said bar having a recess formed in one side thereof and elongated lengthwise of the bar and to which recess said switching contact extends and into which recess one of said aligned contacts projects, the other contact being a spring contact constantly pressing the bar toward the first contact to maintain it in said recess thereby to maintain the assembly of the bar and shell.

1,450,254. BALANCING ARRANGEMENT FOR MULTIPLEX CARRIER CIRCUITS. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,520. 10 Claims. (Cl. 179—15.)



1. In a signaling system, a transmission circuit, means whereby a plurality of signals may be simultaneously transmitted over said circuit at a plurality of different frequencies, balancing means for said transmission circuit, comprising separate networks, each simulating the impedance of said transmission line at one of said signaling frequencies, band filters associated with each net work for preventing the transmission to said network of other signaling frequencies and means associated with said transmission circuit for balancing said band filters.

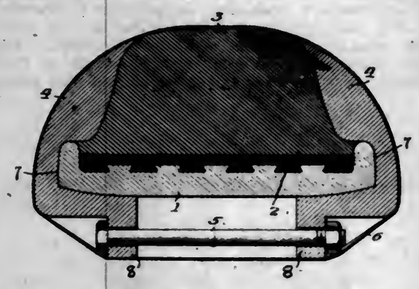
1,450,255. SHEET-METAL END FOR RAILWAY CARS. GARTH G. GILPIN, Riverside, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Oct. 1, 1920. Serial No. 413,986. 7 Claims. (Cl. 105—410.



1. A metal panel for car ends having a plurality of ribs formed therein, said ribs having main walls and portions connecting the main walls on alternate sides of the panel, one of said portions maintaining a constant width throughout and other portions maintaining a constant width equidistantly on each side of the center for a short distance and then increasing in width towards the end, said main walls decreasing in width in proportion thereto until said main walls and connecting portions merge into the panel.

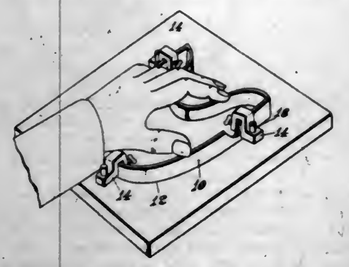
1,450,256. PROCESS AND APPARATUS FOR THE MANUFACTURE OF SOLID TIRES. DANIEL E. GOODENBERGER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 6, 1919. Serial No. 280,984. 3 Claims. (Cl. 18—42.)

1. The method of manufacturing solid tires, comprising applying to a rim a layer of hard rubber composition, forming the tread portion of the tire from a resilient rubber compound in approximately the shape of the finished tire, applying the tread portion to the hard rubber base, confining the sides of the tire and the edges of the



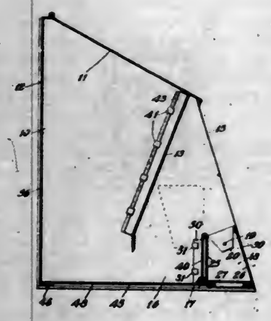
rim between metallic rings, wrapping the rim, tire and side rings with a spiral cloth wrapping and vulcanizing.

1,450,257. METHOD OF CUTTING SHOE-PART BLANKS. CHESTER HUNT, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 11, 1919. Serial No. 323,165. 10 Claims. (Cl. 33—6.)



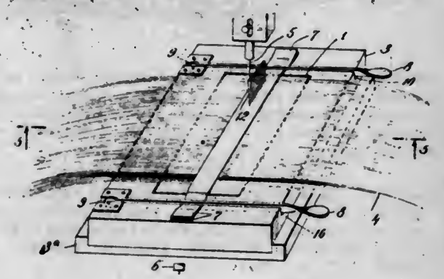
1. That improvement in the art of making shoe part blanks from a skin which consists in placing individual patterns successively upon a skin, outlining each pattern on the skin to mark the location of a blank before another pattern is applied to the skin, repeating the operation until the entire skin is planned, and subsequently cutting the skin according to the plan recorded thereon.

1,450,258. COLLAPSIBLE POULTRY FEEDER. MARTIN R. JACOBUS, Ridgefield, and WILLIAM F. BURDITT, Jr., Hillside, N. J.; said Burditt assignor to said Jacobus. Filed Jan. 9, 1923. Serial No. 611,575. 11 Claims. (Cl. 119—52.)



4. A feeder, comprising metal back, bottom and side plates removably connected to one another, a removable metal partition to retain said plates together and to form a hopper therewith, and a collapsible metal waste receptacle removably attached to the bottom plate and movable relatively to the hopper.

1,450,259. ARTIFICIAL EYELASHES AND METHOD OF MAKING SAME. CHARLES NESSLER, New York, N. Y. Filed June 30, 1921. Serial No. 481,696. 22 Claims. (Cl. 132—53.)



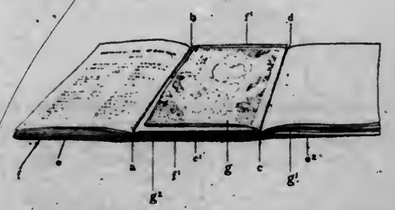
1. An artificial eyelash comprising a strip of flexible material having a series of hairs passing through said material and secured to said strip and projecting from a margin of the strip, to form an eyelash.

1,450,260. CLOSURE FOR RECEPTACLES. ISIDOR NEWMAN, New York, N. Y. Filed Feb. 10, 1920. Serial No. 357,755. 5 Claims. (Cl. 220—27.)



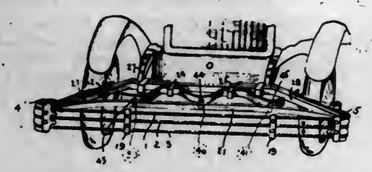
1. A closure for a container comprising an imperforate threaded neck provided with a puncturable outer end, said neck having a laterally disposed web and an outwardly disposed wall spaced from and surrounding the neck, said wall having an outwardly disposed pliable flange, said wall and flange being adapted to receive the out-turned neck of a container therebetween, and a threaded cap to detachably fit said threaded neck.

1,450,261. BOOKBINDING. EDWARD KILBURN ROBINSON, Belmont, Mass. Filed Mar. 20, 1920. Serial No. 367,547. 3 Claims. (Cl. 281—16.)



1. A tracing book consisting of a cover, a set of leaves bound therein containing printed text on the pages lying at one side as the book is opened, and matter to be traced on the opposite pages, and a set of leaves of tracing paper attached to said cover along a line such that any page of the tracing paper can be superimposed over any page of the matter to be traced.

1,450,262. CABLE BUMPER. KARL OSTEN SCHAUMAN, San Francisco, Calif. Filed May 11, 1922. Serial No. 560,083. 18 Claims. (Cl. 293—55.)



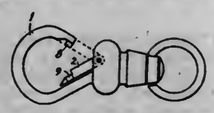
3. A cable bumper comprising a flexible nonextensible cable member, supports for each end of said member and means tending to keep the ends separated and means for attaching said spring means to a vehicle and means for adjusting the tension of the spring means and a spring leaf intermediate the spring means and the cable member and substantially in the same plane therewith, and means insulating said leaf from said member and said supports.

1,450,263. APPARATUS FOR AERIAL PROJECTION. MARIO SCHIESARI, New York, N. Y. Filed Mar. 15, 1921. Serial No. 452,540. 6 Claims. (Cl. 88—24.)



1. The combination of a screen segment, means for attaching the same at one of its ends, means for causing the rotation of said screen segment around its point of support, a frame carrying said screen segment, and means for moving said frame so as to alter the plane of rotation of said segment.

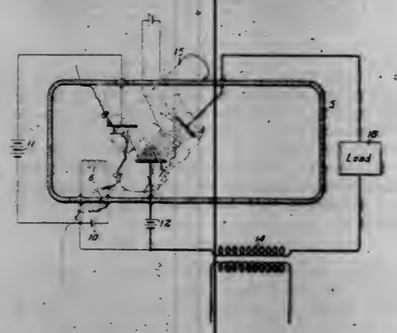
1,450,264. SWIVEL HOOK FOR WATCH CHAINS. HERMAN J. SCHITTERER, San Diego, Calif. Filed Nov. 16, 1921. Serial No. 515,524. 1 Claim. (Cl. 24—240.)



A device of the class described, including a casing, a hook member secured to one end of said casing and provided with an inwardly beveled free end and a lug extending inwardly from said free end with its inner side at a substantial right angle with the outer edge of the hook, and a latch member pivotally mounted at its one end in said casing and having its opposite end bevelled outwardly conforming with the bevelled free end of said hook member and provided with a slot extending from the

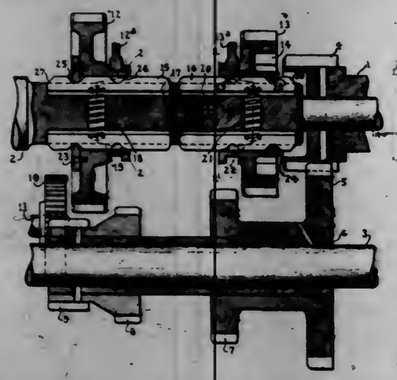
outer to the inner side and spaced from the end thereof conforming substantially with the lug at the free end of said hook member.

1,450,265. HOT-CATHODE TUBE. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1919. Serial No. 291,158. 15 Claims. (Cl. 250—27.)



1. In a rectifying device, the combination with means for producing an electron stream, of a circuit including two spaced electrodes, an alternating-current source and a load, and means for deflecting said electron stream upon one of said electrodes whereby it functions as a cathode by secondary emission and by reflection and permits the rectification of current from said source.

1,450,266. VARIABLE-SPEED GEAR SET. HERMAN J. TAYLOR, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 17, 1922. Serial No. 544,436. 10 Claims. (Cl. 74—58.)



3. In a power transmitting mechanism, the combination with an axially shiftable gear having neutral and operative positions, a shaft therefor, means for locking said gear against rotation with respect to said shaft when the same is in the aforesaid positions and for releasing said gear from said shaft during shifting thereof between said positions.

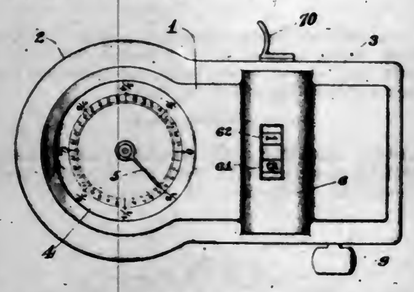
1,450,267. LOOSE-LEAF BINDER. CLARENCE D. TRUSSELL, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 371,874. 8 Claims. (Cl. 129—24.)

1. A loose-leaf binder comprising opposed related hook plates and hooks, the plates formed with openings to receive the hooks and the hooks having their base portions notched on opposite sides to engage the marginal portions of said openings, the openings being of size to permit the insertion of the base portions of the hooks through the openings, and the hooks and openings related to admit of a



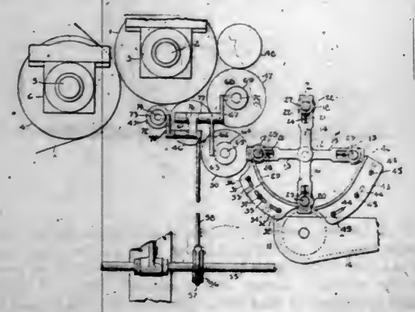
displacement of the base portion of the hooks after such insertion to a final interlocking relation where the parts are in tight engagement, the plates having at the openings marginal portions preventing outward displacement of the hook bases.

1,450,268. MACHINE FOR MEASURING FABRICS. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 15, 1919. Serial No. 338,231. 7 Claims. (Cl. 33—129.)



1. In a fabric measuring machine, the combination of a measuring roller mounted to be rotated by the goods passed thereover, a dial, a pointer co-operating with the dial for indicating fractions of the unit of measure, said pointer being capable of unlimited rotation, means actuated by said measuring roller for driving the pointer without limit in the forward direction, and a numeral wheel co-operating with the pointer for indicating the number of revolutions made by the pointer in each complete measuring movement.

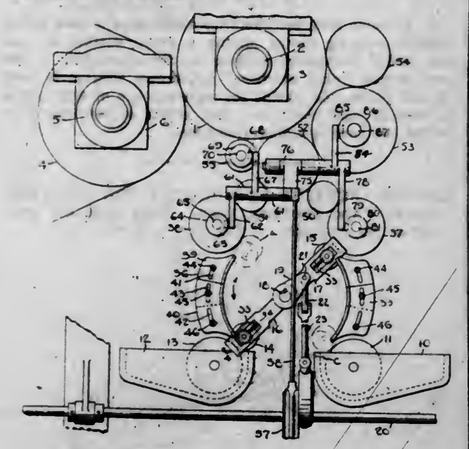
1,450,269. INKING MECHANISM. JOSEPH J. WALSER, Ann Arbor, Mich., and HARLAND FANKBONER, Chicago, Ill., assignors to Goss Printing Press Company, a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,354. 35 Claims. (Cl. 101—350.)



1. A printing press inking mechanism including in combination a fountain roller, an ink drum, a ductor roller

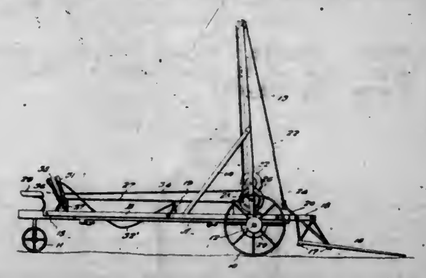
and means for causing the ductor roller to travel along the periphery of both the ink drum and the fountain roller and means for independently varying said peripheral travel of the ductor roller upon the ink drum and upon the fountain roller to control the supply of ink.

1,450,270. INKING MECHANISM. JOSEPH J. WALSER, Ann Arbor, Mich., and HARLAND FANKBONER, Chicago, Ill., assignors to Goss Printing Press Company, a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,355. 28 Claims. (Cl. 101—350.)



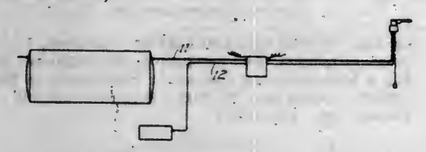
1. A printing press inking mechanism including in combination a fountain roller, an ink drum, and a ductor roller reciprocating between them and adapted to travel along the periphery of each and means for independently varying said travel of the ductor roller along the fountain roller and the ink drum to control the supply of ink.

1,450,271. HAYSTACKER. CHARLES H. WELKERT and HENRY WELKERT, Vesta, Minn. Filed Oct. 5, 1920. Serial No. 414,932. 1 Claim. (Cl. 214—113.)



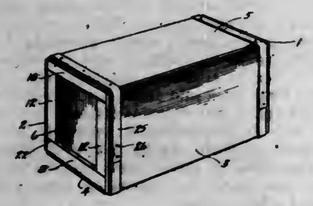
A hay stacker comprising a pair of interfitting relatively pivoted frames having an opening and closing movement, one of said frames constituting a main stationary frame and the other an auxiliary frame, a rake pivotally supported from the said auxiliary frame, means for swinging the movable frame to a position above the main frame for elevating the said rake, an arm projecting from each side of the rake normally lying parallel with a side of the auxiliary frame, a pivoted trip-element mounted on the auxiliary frame and engaged over the said arms at the rake to hold the latter rigid with respect to the auxiliary frame, and an operator's lever connected with the trip-element for moving the latter to release the said arms.

1,450,272. REPAIRMAN'S BRAKE ATTACHMENT FOR AIR BRAKES. FRANK WEST, East San Diego, Calif. Filed Sept. 22, 1919. Serial No. 325,417. 4 Claims. (Cl. 303—51.)



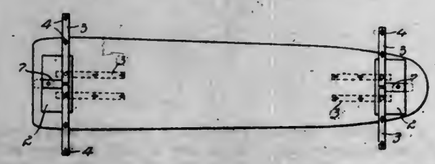
4. An apparatus of the class described, including an air reservoir, a motorman's control valve, a pipe connecting said reservoir with said control valve, an air brake cylinder, a straight air application and release pipe connecting said motorman's control valve with said air brake cylinder, a valve communicating with the reservoir pipe and ported so as to communicate with the brake cylinder pipe through the straight air application and release pipe when in certain position and for exhausting the air when in another position and an electrical switch in connection with the main line wiring for breaking the circuit in said wiring when the valve is so positioned as to communicate with the brake cylinder pipe.

1,450,273. SHIPPING BOX. WILLIAM A. WILCOX, Tacoma, Wash. Filed Aug. 8, 1921. Serial No. 490,640. 3 Claims. (Cl. 217—12.)



1. In a box of the character described, a bottom wall having rails fixed transversely thereto at its opposite ends, opposite side walls having rails fixed at their ends; said latter rails being connected at their lower ends with the end of the rails of the bottom wall, and having tongues at their upper ends provided with upwardly opening slots, end walls for the box, rails fixed across the upper ends of said walls and provided with grooves at their ends for receiving the tongues at the upper ends of the side wall rails and pins extended through the said grooves to be received within the tongue slots for the purpose set forth.

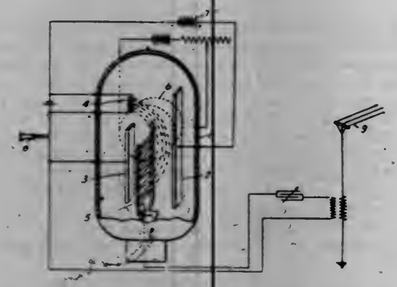
1,450,274. ATTACHMENT FOR IRONING BOARDS. MAHLON M. ZELLERS, Belleville, Ill. Filed Oct. 20, 1921. Serial No. 508,905. 2 Claims. (Cl. 68—10.)



1. An attachment for ironing boards comprising a block adapted to be secured to the under side thereof, arms pivotally secured to said block and adapted to be swung to extend transversely of the ironing board with their ends abutting, a stop secured to said block and

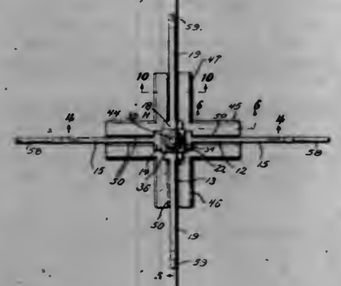
abutting against said arms when they are in extended position, and hooks on said arms adapted to have aprons secured thereto to receive the ends of articles being ironed.

1,450,275. WIRELESS AMPLIFIER. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1918. Serial No. 269,130. 10 Claims. (Cl. 179—171.)



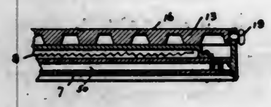
1. In a vacuum-type amplifier, a hot cathode for the production of a stream of electrons, an auxiliary anode disposed adjacent thereto, means for maintaining a difference of potential between said electrodes, whereby substantially all the electrons emitted by said cathode are drawn toward said anode, means producing a magnetic field transverse to the path of said electrons, whereby they are forced to assume a cycloidal path and eventually travel away from said anode, with attendant diminution of velocity, a grid electrode disposed to intercept the electron path at this point of relatively low velocity, a main anode disposed beyond said grid, means responsive to variations in current flow between said cathode and said main anode, and means for varying the potential of said grid electrode.

1,450,276. TROLLEY CROSSING. RICHARD E. ANDREW, Philadelphia, Pa., assignor of one-half to Joseph Andrew, Philadelphia, Pa. Filed Feb. 21, 1922. Serial No. 538,204. 9 Claims. (Cl. 191—37.)



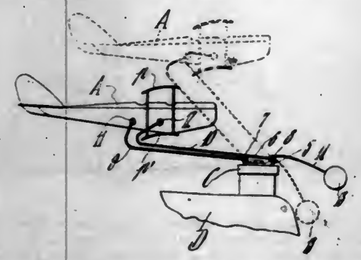
1. A trolley crossing including a crossing body; comprising members having arms, one of said members having a recess into which a portion of the other member extends to form an interlock fit; electrical insulating means for said members having a part within said recess; a bolt extending through said members; insulating means for holding the members together; and trolley wheel crossing means carried by said body; substantially as described.

1,450,277. WAFFLE AND HOT-CAKE IRON. EDMUND N. BROWN and ALFRED M. LAMBERT, San Francisco, Calif., assignors to Majestic Electric Development Company, a Corporation of California. Filed Jan. 31, 1922. Serial No. 533,002. 13 Claims. (Cl. 219—19.)



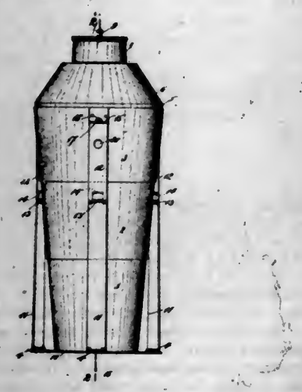
1. A waffle and hotcake iron comprising a pair of reversible cooking plates having a plane surface on one side and a corrugated surface on the other side, a two-part hinged frame, electrical resistances secured in each of said parts, and means for securing one of said plates in each of said parts and with either of said sides adjacent the corresponding resistance.

1,450,278. NOVELTY ATTACHMENT FOR VEHICLES. HENRY CAVE, Hartford, Conn. Filed June 30, 1919. Serial No. 307,666. 5 Claims. (Cl. 46—14.)



5. A novelty attachment for vehicles comprising a body portion provided with wings for raising the body relatively to the vehicle when the vehicle is in motion, a link pivotally connected at one end to said body portion and at the opposite end to said vehicle, and means cooperating with said link for maintaining the body portion in the same angular relation to the vehicle as it rises relatively thereto.

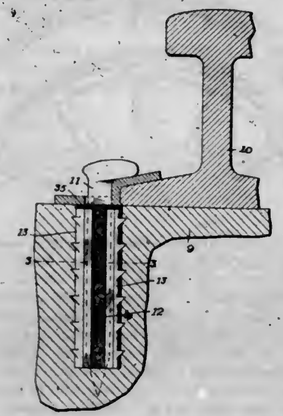
1,450,279. SHAKER. WILLIAM C. CHICK, Boston, Mass. Filed Oct. 19, 1922. Serial No. 595,664. 6 Claims. (Cl. 259—72.)



1. A vessel of the kind described comprising a series of sections of graduated size and a plurality of braces,

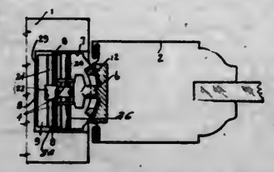
one end of each brace being connected to a section at one end of the vessel and adapted to engage with a section at the other end of the vessel whereby said sections will be held in extended relation and upon the disengagement of said braces may be collapsed said braces being made in two parts whereby when said sections are in collapsed position said braces may be folded over the free end of the vessel and hold it in collapsed position.

1,450,280. PROTECTOR FOR RAIL TIES. GEORGE B. CUTTINO, Worcester, Mass. Filed May 12, 1919. Serial No. 296,502. 2 Claims. (Cl. 238—371.)



2. A protecting device for a rail tie comprising a plate located in a hole in the tie for the reception of a spike, and a body of pitch poured into the hole extending to the bottom thereof on two sides of the spike and extending over the top of said plate so as to seal the hole, plate and spike.

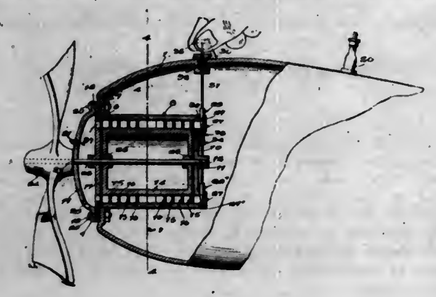
1,450,281. SLIDING AND REVERSING WINDOW. OTTO B. DREUSIKE, San Francisco, Calif. Filed Apr. 6, 1921. Serial No. 459,086. 1 Claim. (Cl. 20—49.)



In a window structure comprising a frame provided with a guideway, and a sash movable therealong; the combination with a stile of said sash of a tracking bar slidable in said guide-way, and having a wall normally in contact with the adjacent wall of said stile, one of said walls having a concave surface and the other a convex surface normally disposed therein; a headed pivot extending from said convex surface into said concave surface and separably uniting said sash and said tracking bar, but permitting said tracking bar to move laterally in said guideway; and vertically sliding means carried by and conforming to said concave wall for straddling said pivot to prevent withdrawal of the same and reinforcing said concave wall adjacent to said pivot.

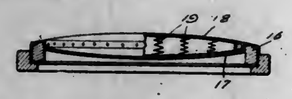
1,450,282. TOY. ESTON F. FOX, Williamsport, Md. Filed Apr. 4, 1922. Serial No. 549,384. 3 Claims. (Cl. 244—14.)

1. In a device of the character described, an elongated hollow body provided with an inlet and with an opening at one end thereof, a normally closed valve controlling the inlet, a turbine closing the opening at the end of the body and partially received within the latter, said turbine being provided with an inlet port at the end thereof received within the body and being provided with an outlet port at its opposite end, whereby said turbine is adapted to be actuated by a pressure fluid introduced into said body through said inlet of the body, a propeller



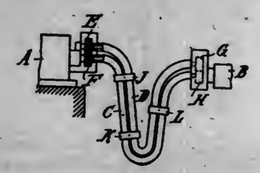
operatively connected with the turbine and arranged to be driven by the latter, and a cover plate for the portion of the body provided with the outlet port, said cover plate being provided with an exhaust opening through the lower part thereof whereby a lifting force is applied to the body as the exhaust pressure fluid passes through the exhaust opening.

1,450,283. SANITARY SEAT. FRANK GALIZIA, Farrell, Pa. Filed Feb. 28, 1922. Serial No. 539,088. 3 Claims. (Cl. 155—183.)



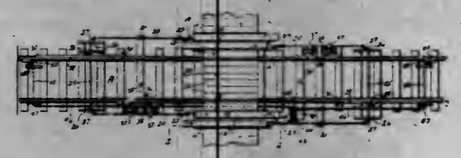
2. A seat construction comprising a frame, a stationary seat mounted within said frame and including a frame portion covered with flexible material downwardly concaved, and a seat cushion removably and reversibly mounted within said stationary seat and convex on both sides whereby one side will conformingly engage within the concave portion and the other side will extend upwardly beyond the frame portion of the stationary seat member, said flexible material being formed with holes for ventilating purposes to permit drying of the previously exposed surface of the removable cushion after the same has been removed and replaced within the stationary portion in reversed position.

1,450,284. FLEXIBLE SHAFTING. RUDOLF GOLDSCHMIDT, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordrup, Charlottenlund, Denmark, a Company of Denmark. Filed July 16, 1921. Serial No. 485,375. 3 Claims. (Cl. 64—89.)



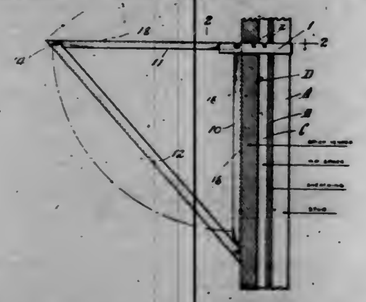
1. High-speed power transmission mechanism comprising a pair of parallel oppositely-rotated flexible shafts, a covering for each of said shafts and means for binding said coverings together to prevent twisting of said shafts.

1,450,285. RAILWAY-CROSSING GATE. ADOLPHUS D. GOODWIN, East Durham, N. C., assignor of thirty per cent to Dock W. Brown, East Durham, N. C., and thirty per cent to Delos W. Sorrell, Durham, N. C. Filed May 3, 1922. Serial No. 558,079. 5 Claims. (Cl. 246—294.)



1. In a railway crossing, housings disposed on each side of the crossing below the surface thereof and having their upper ends open to the surface of the crossing, a pair of gates disposed in each housing and vertically movable out of or into the housing, means actuated by the approach of a train in either direction for lifting said gates, and means holding said gates lifted while the train is approaching the crossing and until it has passed the crossing.

1,450,286. SCAFFOLD BRACKET. JOSEPH F. GRAFF, Milwaukee, Wis. Filed Dec. 9, 1920. Serial No. 429,433. 2 Claims. (Cl. 304—33.)



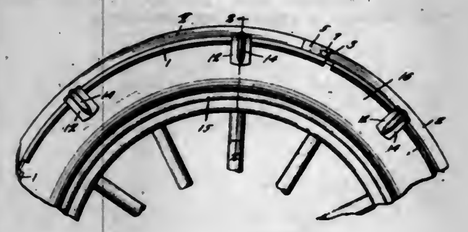
1. A support for scaffolding brackets comprising a U-shaped stirrup having its parallel arms provided with slots extending downward from their upper edges and inclined rearward toward the member connecting said parallel arms.

1,450,287. SUBMARINE SIGNALING APPARATUS. WALTER HAHNEMANN, Elitzeberg, near Kiel, Germany, assignor to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Filed Jan. 5, 1921. Serial No. 435,294. 17 Claims. (Cl. 181—0.5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



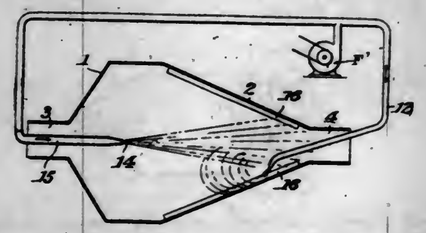
1. In a submarine sound signaling plant, sound signaling apparatus proper, and a wall associated with the said apparatus, an area of the said wall of a radius of at least substantially one quarter of the length of the wave of the sound used for signaling being substantially unyielding to fluctuations of pressure due to the said sound.

1,450,288. TIRE ARMOR. WILLIAM L. HAMM, Oskaloosa, Iowa. Filed Oct. 22, 1921. Serial No. 509,600. 1 Claim. (Cl. 152—16.)



A device of the class described comprising sections each including a body and an outstanding longitudinal rib; means for connecting the rib of one section to the rib of an adjoining section, and oppositely extended transverse metal clips having their inner ends mounted on the body, the outer ends of the clips being free and projecting beyond the longitudinal edges of the body, the clips being bulged outwardly to form reinforcing ribs disposed transversely with respect to the body and to form, on each side of the rib, plane areas affording places of attachment between the clips and the body.

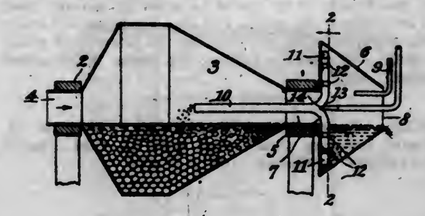
1,450,289. APPARATUS FOR ENTRAINING AND REMOVING FINES FROM CONICAL MILLS. HARRY W. HARDINGE, New York, N. Y. Filed Apr. 29, 1920. Serial No. 377,439. 1 Claim. (Cl. 83—9.)



The combination with a conical grinding mill comprising a rotatable drum having a conical outlet portion for automatically classifying material according to size, provided with an outlet opening for discharging the material when ground, of a jet which discharges into said conical outlet portion adjacent the base thereof and directed toward said outlet opening, said jet and conical outlet portion cooperating to form an ejector and means for supplying elastic motive fluid to said jet under pressure.

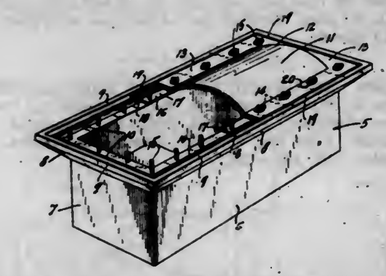
1,450,290. OVERSIZE RETURN FOR MILLS. HARRY W. HARDINGE, New York, N. Y. Filed June 4, 1920. Serial No. 386,527. 9 Claims. (Cl. 83—9.)

1. A grinding mill comprising in combination, a rotatable grinding drum having a substantially unobstructed overflow conical outlet portion for the classification of material according to size, a classifier into



which said drum discharges, and means for automatically returning oversize material from said classifier to said drum through the end of said conical outlet portion.

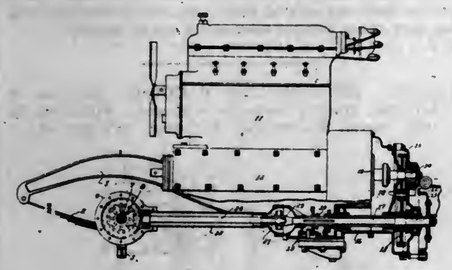
1,450,291. BURIAL VAULT. HARLEY O. HEACOCK, Winslow, Ind. Filed July 15, 1922. Serial No. 575,286. 1 Claim. (Cl. 27—17.)



A burial vault comprising a receptacle having an endless enlarged end portion at its upper edge adapted to form a supporting member, a flange extending upwardly from the outer edge portion of the upper face of the supporting member, said upper face of the supporting member having a longitudinally extending groove disposed in spaced relation to the flange and the inner edge of the supporting member, an endless compressible gasket engaged with the upper face of the supporting member, the outer edge of said gasket being extended upwardly at right angles to the major portion of the gasket to provide a flange, and engaged with the inner face of the flange of the supporting member, that portion of the gasket disposed between the flange thereof and the inner edge portion of the gasket being substantially crimped longitudinally of the gasket and extended into the groove of the supporting member, and a cover having an endless rib depending from the lower face thereof and arranged to enter said crimp and firmly engage the gasket, the outer edges of the cover being adapted to firmly engage the inner face of the flange of the gasket.

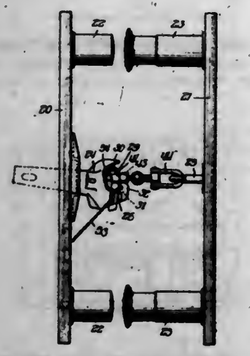
1,450,292. MOTOR VEHICLE. EDGAR R. HOLMES, Detroit, Mich., assignor to Hamlin-Holmes Motor Company, a Corporation of Delaware. Filed Jan. 31, 1920. Serial No. 355,386. 2 Claims. (Cl. 180—42.)

1. In a motor vehicle wherein a chassis frame is supported upon a front axle by supporting springs, a live axle is carried by the front axle for transmitting motion to front supporting and steering wheels, and an engine is supported on the frame rearwardly of the front axle and provided with a downwardly extending crank case; means for transmitting motion from the rear end of the engine forwardly beneath said engine to the front axle including a propeller shaft operatively connected at its rear end with the rear end of the engine crank shaft and at its forward end to said axle, said propeller shaft including a universal joint, and a tubular member enclosing said pro-



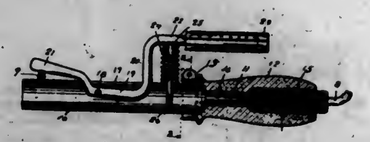
peller shaft and rigidly connected to the axle at its front end and having a universal connection at its rear end with the engine crank case to provide a radius member for taking the rearward thrust of the front axle.

1,450,293. TRANSITIONAL COUPLING ARRANGEMENT. ROBERT E. L. JANNEY, Chicago, Ill. Filed June 16, 1922. Serial No. 568,809. 7 Claims. (Cl. 213—112.)



1. In combination, a plurality of railway cars the adjacent ends of which are provided with cooperating buffers, an automatic coupler connected to one end of one of said cars, a U-shaped member mounted over one portion of the coupler head and having a horn extending toward another portion of the coupler head, and means including a member for hooking around said horn whereby said coupler may be connected to a hook or automatic coupler on said other car regardless of the position of said buffers.

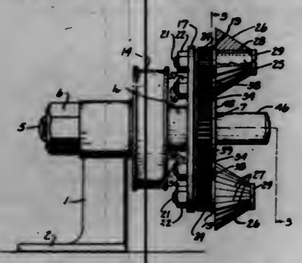
1,450,294. WELDING TOOL. JOHN JERRY, Milwaukee, Wis. Filed Dec. 29, 1920. Serial No. 433,846. 2 Claims. (Cl. 219—14.)



1. A tool of the class described, comprising a handle, a shank member carried by the handle, said shank member

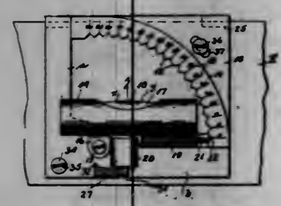
having a slot cut therein, a lever having a medial bend disposed in said shank member slot, means pivotally securing said lever bend in the slot, a clamp member formed on the outer end of said lever, a handle portion formed on the inner end of said lever, and means yieldingly urging said clamp member toward the shank member.

1,450,295. FRUIT-PEELING MACHINE. MAXWELL O. JOHNSON, Waipio, Territory of Hawaii. Filed Oct. 15, 1921. Serial No. 507,954. 8 Claims. (Cl. 146—8.)



1. A machine for trimming pineapples including in combination a spindle for engaging within and holding a cored pineapple, and a rotating peeling device having simultaneous rotation about its own center and also about said spindle.

1,450,296. LEVEL ATTACHMENT FOR CARPENTERS' SQUARES. STEPHEN J. LUCAS, Chicago, Ill. Filed Feb. 23, 1922. Serial No. 538,436. 2 Claims. (Cl. 33—213.)



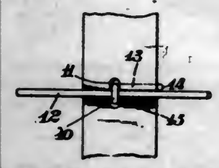
1. The combination with a carpenter's square, of a leveling attachment, said attachment comprising a base, brackets extending from the top of said base and having triangular ends, there being beveled notches at the upper edge of the square for receiving said triangular nds, a latch member at the lower end of said base having a triangular end, said square having a beveled notch at its lower edge for receiving said triangular end of the latch member, a spirit level pivoted on said base, and a degree indicating scale on said base with which said level cooperates to indicate angles.

1,450,297. PIPE WRENCH. JAMES M. MARTIN, Knoxville, Tenn. Filed Feb. 1, 1922. Serial No. 533,347. 2 Claims. (Cl. 81—105.)



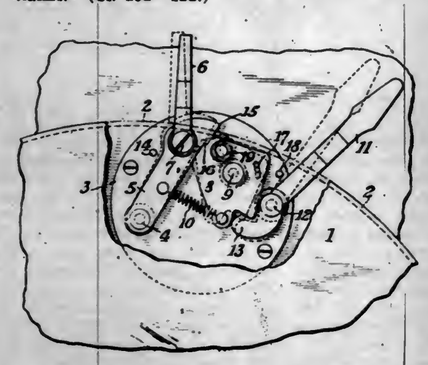
1. In a wrench, a handle, a jaw formed at one end of the handle, a pivoted frame supported by the handle, a jaw movable through the frame, said jaw including a threaded shank, said shank having key-ways formed in opposite sides thereof, a sleeve having threads cooperating with the threads of the shank to move the movable jaw, keys supported by the frame, and disposed in the key-ways, portions thereof being embraced by the sleeve, and resilient means for normally holding the frame in its active position.

1,450,298. WIRE-FENCE FASTENER. WILLIAM H. MASON, Leesburg, Ohio. Filed Sept. 15, 1921. Serial No. 500,983. 2 Claims. (Cl. 256—48.)



1. As an article of manufacture, a device for fastening a wire to a post having a hole therethrough crossed by the wire, said device consisting of a loop portion having two legs bent off from said loop and one of said legs further bent in the same direction as the loop and substantially parallel thereto.

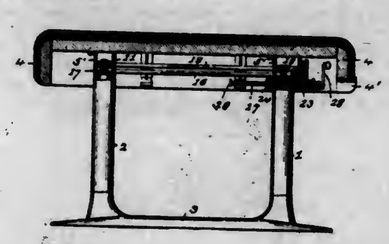
1,450,299. AUTOMATIC STOP FOR PHONOGRAPHS. FRED G. MAYER, Richmond, Ind., assignor to Starr Piano Company, Richmond, Ind., a Corporation of Indiana. Filed Nov. 28, 1921. Serial No. 518,154. 2 Claims. (Cl. 192—122.)



1. A stop mechanism for phonographs comprising in combination, a base plate disposed under the turn table, a trip lever pivoted thereon, a cocking handle pivoted to the plate, a dog intermediate the trip lever and cocking handle, pivoted to the plate, the edge of which is engagd by the cocking handle and adapted thereby to be thrown to bring a shoulder in its edge into locking engagement with the trip lever, a spring for maintaining such engagement, and a brake carried by the pivoted dog and adapted to be thrown by the disengagement of the said trip lever and dog and into operation to arrest the rotation of the turn table.

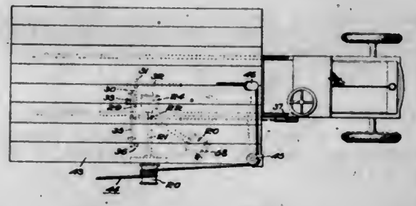
1,450,300. EXERCISING APPARATUS. PHILIP S. MEDART and FRANK ALBACH, St. Louis, Mo., assignors to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 12, 1921. Serial No. 468,838. 8 Claims. (Cl. 46—69.)

1. In an exercising apparatus, a base, a hollow body supported in a vertically adjustable manner on said base, means for imparting vertical adjustment to said body, a longitudinally arranged housing having operative engagement with said adjusting means, and a non-circular shaft arranged in a longitudinally adjustable manner in said housing and having an operative crank at one end, said



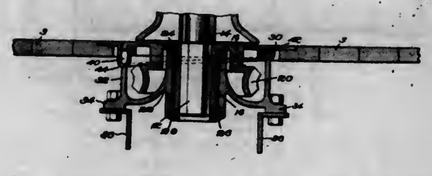
shaft being adapted to be moved from an inactive position in the hollow body into an active position outside said body, said body having a pasage in an end wall for such movement of the shaft.

1,450,301. AUTOMOBILE WINCH. ALMON E. NORRIS, Brookline, Mass. Filed Apr. 16, 1919. Serial No. 290,535. 14 Claims. (Cl. 254—166.)



1. In a vehicle, a winch comprising driving gearing, a winch head and driving shaft therefor having a universal joint and permitting said winch head to be shifted into a position inside or outside of the marginal portion of the car body.

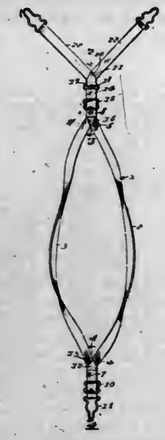
1,450,302. AUTOMOBILE WINCH. ALMON E. NORRIS, Brookline, Mass. Filed Aug. 12, 1920. Serial No. 402,946. 11 Claims. (Cl. 254—166.)



1. The combination with a vehicle having a load-supporting platform, of a winch comprising a support presenting an upright bearing, a driving head journaled in and supported by said bearing and presenting an upright socket, and an upright winch-head supported and driven by said driving head and removable in an upward direction therefrom to render the space normally occupied by said winch-head available for occupation by a load on said platform.

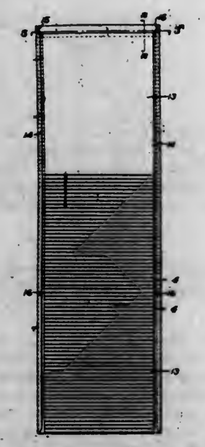
1,450,303. SUSPENDERS. WASHINGTON M. POTTER, Freedom, Pa. Filed Nov. 16, 1921. Serial No. 515,580. 2 Claims. (Cl. 241—12.)

1. A pair of suspenders comprising a pair of elastic straps adapted to engage over the shoulders of a wearer, said straps converging toward and connected together at their opposite forward and rear ends, means connected to the forward ends for operatively connecting the straps to the front of the trousers, shields overlying and secured to the rear ends of the straps, a strap secured between the shields and being folded adjacent its unattached end, a buckle attached to the terminal of the strap beyond



the fold and operatively and adjustably receiving the body of the strap between the fold and where the end of the strap is secured between the shields, and a pair of diverging elastic straps connected together at their converging ends, means connecting the converging ends of the last mentioned straps to the fold, and means attached to the diverging ends of the last mentioned straps for attaching them to the rear of a pair of trousers.

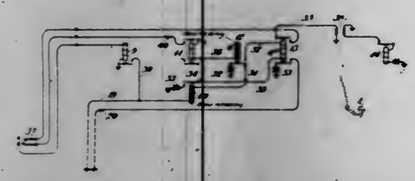
1,450,304. LOOSE-LEAF INDEX FILE. JOHN T. QUIGLEY, Boston, Mass., assignor, by mesne assignments, to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1914. Serial No. 872,302. 40 Claims. (Cl. 129—16.)



36. In a file, the combination of a series of overlapping sheets, and a series of sheet-supports supporting said sheets, respectively, providing for turning movement of said sheets about parallel axes, and carrying means spac-

ing said supports transversely of said axes and also defining the positions of said sheets lengthwise of said axes throughout the range of turning movement of said sheets about said axes.

1,450,305. TELEPHONE SIGNALING SYSTEM. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,320. 5 Claims. (Cl. 179—49.)



1. In a telephone system, a trunk circuit, a recording circuit, a cord circuit adapted to be associated with either of said circuits, an indicating circuit adapted to be associated with said trunk circuit or said recording circuit, a differential relay in said indicating circuit, and a plurality of sequentially operated relays in said indicating circuit for intermittently energizing said differential relay whereby a busy indication is produced in the cord circuit upon the association of the trunk circuit with said indicating circuit and whereby a peremptory disconnect signal is produced in said cord circuit upon the association of said recording circuit with said indicating circuit.

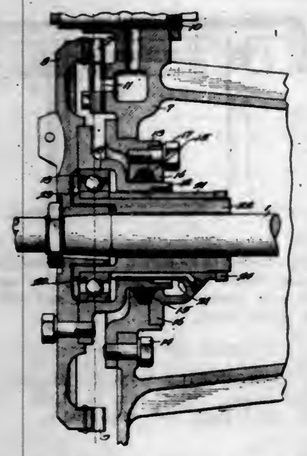
1,450,306. SPRING-SHACKLE CONSTRUCTION. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 4, 1920. Serial No. 363,165. 11 Claims. (Cl. 267—54.)



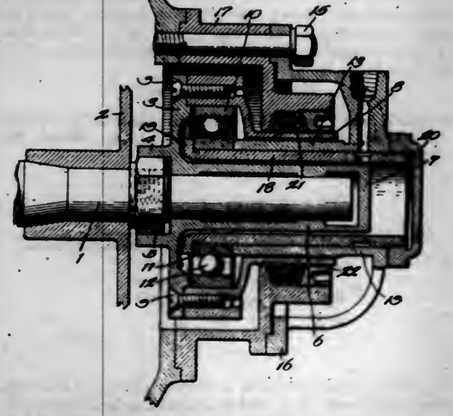
2. In a spring shackle construction, the combination of two pivots, a pair of links each provided with openings in which said pivots are received and provided with a slot connecting said openings, and means to vary the size of said openings by varying the width of said slots.

1,450,307. BEARING. MARK A. ROSS, Flossmoor, Ill., assignor of one-half to Harry P. Bayley, Chicago, Ill. Filed Nov. 16, 1921. Serial No. 515,551. 6 Claims. (Cl. 64—36.)

1. In a turbine, the combination with the rotating shaft thereof; of an impact wheel upon the shaft and having a hollow extension surrounding and spaced apart from the shaft; a wall surrounding said hollow extension; a substantially fluid tight packing between said wall and hollow extension; an outer roller bearing raceway upon and within the hollow extension; an inner raceway; rollers between said raceways; a sleeve upon said wall and surrounded by the aforesaid hollow extension of said wheel and having one end engaging one side of the inner raceway; a second sleeve surrounded by and movable longitudinally of the first and surrounding the shaft, this second sleeve engaging the other side of the inner raceway; and a nut in threaded engagement with the second sleeve and abutting against the other end of the first sleeve to hold the inner raceway between said sleeves, said raceways and rollers being between said wheel and packing.

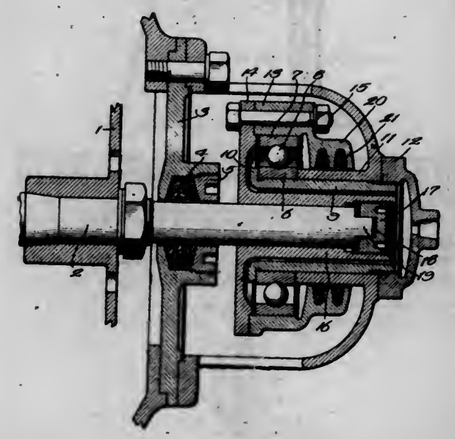


1,450,308. BEARING. MARK A. ROSS, Flossmoor, Ill., assignor of one-half to Harry P. Bayley, Chicago, Ill. Filed Nov. 16, 1921. Serial No. 515,552. 8 Claims. (Cl. 64—36.)



1. In a turbine, the combination with the rotating shaft thereof; of an impact wheel upon the shaft; a bearing member turning with the shaft and formed with a hollow extension into which said shaft projects and in which the shaft terminates, said hollow extension projecting away from the impact wheel and having an end wall opposite the end of the shaft that is in this hollow extension, said bearing member also having a second hollow extension surrounding and spaced apart from the first hollow extension; an outer roller bearing raceway upon and within the second hollow extension; an inner raceway; rollers between said raceways; a sleeve in the space between said hollow extensions and having one end engaging one side of the inner raceway; a second sleeve surrounded by and movable longitudinally of the first and engaging the other side of the inner raceway; a nut in threaded engagement with the second sleeve and abutting against the other end of the first sleeve to hold the inner raceway between said sleeves; a wall surrounding said extensions and sleeves; and a fluid tight packing between said wall and the aforesaid second hollow extension; said raceways and rollers being between the impact wall and the packing.

1,450,309. BEARING. MARK A. ROSS, Flossmoor, Ill., assignor of one-half to Harry P. Bayley, Chicago, Ill. Filed Nov. 16, 1921. Serial No. 515,553. 8 Claims. (Cl. 64—36.)



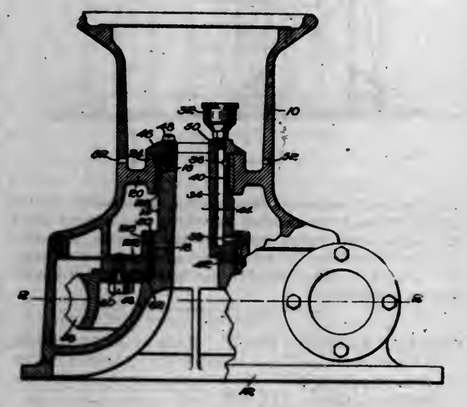
1. In a turbine, the combination with the impact wheel thereof; of a shaft carrying said wheel; a bearing structure for said shaft and having a wall through which said shaft projects; fluid tight packing between said shaft and wall; inner and outer raceways; rollers between said raceways; a sleeve surrounded by the inner raceway and having a flange engaging one side thereof, said wall being between this sleeve and the impact wheel; a second sleeve surrounding the first and joined with said wall, this second sleeve engaging the other side of said inner raceway; means for effecting relative movement between said sleeves to hold the inner raceway; a carrier for and surrounding the outer raceway; and fluid tight packing between said carrier and the second aforesaid sleeve.

1,450,310. LINING FOR CONDUIT OUTLET BOXES. WILLIAM M. SILLIMAN, Syracuse, N. Y. Filed Oct. 17, 1918. Serial No. 258,586. 3 Claims. (Cl. 247—10.)



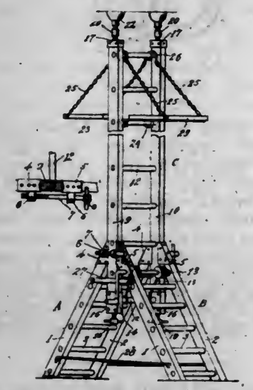
1. A lining for conduit outlet cabinets comprising a body in the form of a sheet having a rectangular opening, the portions of said sheet at opposite sides of the opening being bent downwardly at a right angle to the plane of the sheet, forming flanges constituting two opposing side walls of the lining, and depending flanges separate from the sheet and attached to the inner edges of the sheet at the remaining two sides of said opening, the flanges forming the sides of the lining, substantially as and for the purpose specified.

1,450,311. WINCH. FREDERICK O. SNOW, Jr., Winchester, Mass., assignor to Mead-Morrison Manufacturing Company, East Boston, Mass., a Corporation of Maine. Filed May 3, 1921. Serial No. 466,444. 6 Claims. (Cl. 254—150.)



1. In a winch, the combination of a one-piece base and column presenting inner and outer chambers one about the other, a winch head journaled about said column and about said inner chamber, and gearing within said outer chamber for driving said winch head.

1,450,312. EXTENSION LADDER. RICHARD M. STOLWORTHY, Cincinnati, Ohio. Filed Mar. 16, 1922. Serial No. 544,071. 4 Claims. (Cl. 228—22.)



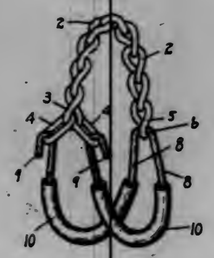
1. In an extension ladder for interior use, the combination with supporting base sections, of a vertical section, with means for extending and clamping the vertical section upon the supporting base, the side rails of the extension section being provided with vacuum cups to engage the ceiling to secure the ladder in vertical position.

1,450,313. CAR UNLOADER. EDWARD OVERALL TALIAFERRO, Philadelphia, Pa. Filed Dec. 13, 1919. Serial No. 344,570. 8 Claims. (Cl. 198—118.)



1. In a car unloader, fixed guides, an elevator on the guides, means for extensibly adjusting the elevator along the guides, and driving means for the elevator, including a member stationary on the guides and a cooperating member carried by the elevator maintaining a permanent driving connection.

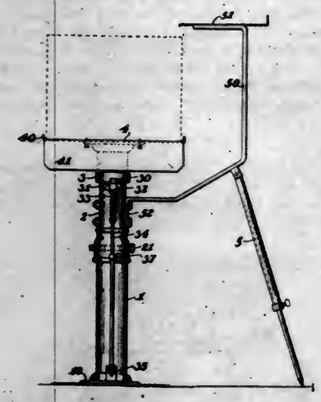
1,450,314. ANTISKID CHAIN. HERBERT E. TWITCHELL, Hamilton, Ohio, assignor of one-half to August Kriegenhofer, Hamilton, Ohio. Filed Sept. 5, 1922. Serial No. 586,365. 1 Claim. (Cl. 152—14.)



An anti-skid device for use with vehicle wheels, composed of a felly engaging element and a tire tread engaging element only, the tire tread engaging element consisting of a single length of chain provided at one end with two links which are connected to a link at one end of the chain, the felly engaging element being substantially V-shaped in plan and having two legs, each leg terminating in a hook, the closed end of said felly engaging element extending through a link at the other end of the chain, and said hooks being interlocked with said two links at the first mentioned end of the chain, said two links diverging from the end of the chain to said hooks.

1,450,315. BOX-STRAPPING BENCH. GEORGE WOOD, Seattle, Wash., assignor to Alec J. Gerrard, Chicago, Ill. Filed Jan. 22, 1920. Serial No. 353,311. 2 Claims. (Cl. 144—288.)

1. A box strapping bench comprising a base, a box holding table carried by the base and vertically adjustable, an arm secured to the base and extending outwardly and upwardly at a distance from the center to clear the box being operated upon, a shelf carried by the upper end of said arm well above the box holding table and laterally



removed therefrom, and an adjustable brace connected with the outer parts of said arm and adapted to reach the floor.

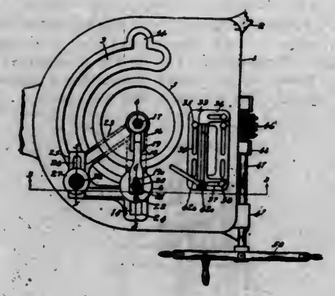
1,450,316. CLUTCH HOLDER. FRANK FREDERICK WUNDER, Valley Falls, Kans. Filed Nov. 2, 1921. Serial No. 512,236. 3 Claims. (Cl. 74—81.)



1. An attachment of the character described comprising a substantially straight body made of a material having spring qualities, a clamping member carried by the body at one end thereof, a catch member consisting of a straight shank portion having an integral hook portion, a releasing member having a straight shank portion and a downwardly inclined portion formed integrally therewith, said second named shank portion being shorter than the shank portion of the catch member, and means for attaching both shank portions to the body adjacent to the end of the latter opposite that provided with the clamping member, and in substantial alinement with the body.

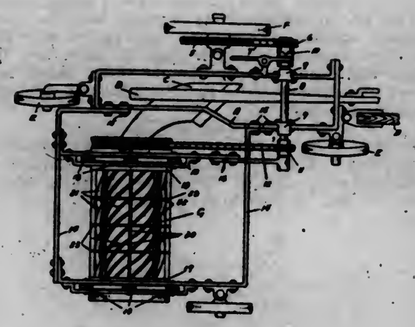
1,450,317. PIPE-BENDING MACHINE. WILLIAM B. BEERS, Portland, Oreg. Filed Oct. 1, 1919. Serial No. 327,631. 14 Claims. (Cl. 153—46.)

1. In a pipe bending machine, the combination of a curved grooved bending body; a grooved bending sheave; a driving wheel having an axis coincident with the axis of the body; a bearing post for the sheave; a sliding mounting on the wheel for the post, said mounting having driving surfaces adapted to drive the post in a circumferential direction with the wheel, said driving surfaces having



a driving engagement with the post for a greater distance lengthwise of the post than the distance between the top of the driving surfaces and the center of the groove of the sheave; and means for driving the wheel.

1,450,318. PULVERIZER AND QUACK-GRASS DESTROYER. ALBERT A. EICH, Richmond, Minn. Filed May 26, 1921. Serial No. 472,856. 2 Claims. (Cl. 97—10.)

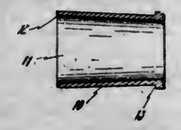


1. The combination with a plow, of a rotatably mounted drum adapted to receive material therefrom at one end, means for rotating the drum, said drum consisting of inner and outer series of alternate spirally arranged spaced bars, longitudinal bars positioned thereabout, and circular members, positioned at intervals throughout the length of the drum, adapted to secure all of said bars together in relatively rigid position.

1,450,319. PROCESS OF MAKING ASBESTOS FRICTION-CLUTCH RINGS. LESTER KIRSCHBRAUN, Chicago, Ill, assignor to The Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 28, 1920, Serial No. 384,901. Renewed Feb. 15, 1923. 4 Claims. (Cl. 91—70.)

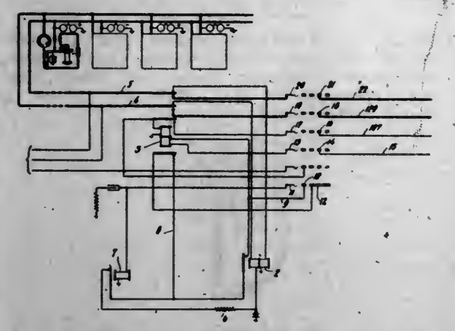
4. A process of making a clutch facing, consisting in saturating an unwoven felted asbestos facing in a bath of heated asphaltic base oil, subjecting the facing to a baking operation at an elevated temperature and continuing the baking until the saturation is substantially insoluble in carbon tetrachloride.

1,450,320. TUBE MANUFACTURE. THOMAS P. LITTLE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 1, 1922. Serial No. 557,511. 7 Claims. (Cl. 18—43.)



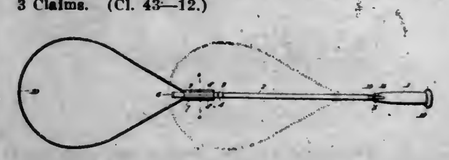
1. A clamp for use in vulcanizing rubber tubes upon mandrels, having a tapered seamless bore.

1,450,321. PARTY-LINE REVERTIVE RINGING SYSTEM. ALBEN E. LUNDELL, Chicago, Ill., and GEORGE THOMPSON, Mount Vernon, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 4, 1920. Serial No. 386,517. 10 Claims. (Cl. 197—17.)



1. In an automatic telephone exchange system, calling and called subscribers' lines, including party lines, automatic switches for interconnecting said lines, a sending device including a plurality of registering devices for controlling the operation of said switches, means to variably position said registering devices, variably operable ringing apparatus, means to operate said automatic switches to establish an interconnection when the line called is not on the same party line with the subscriber who initiates a call, and means determined solely by the positions assumed by said registering devices to operate said ringing apparatus, to accomplish revertive ringing without operation of said automatic switches when a subscriber on a party line calls another subscriber on the same line.

1,450,322. HAND-OPERATING EXTENSIBLE FISH-LANDING NET AND HANDLE. JOHN W. MCELHANY, Denver, Colo. Filed Apr. 8, 1922. Serial No. 550,716. 3 Claims. (Cl. 43—12.)



1. In a device of the character described, the combination with a handle having a hollow rod extending

therefrom which is square in cross section and provided with a stop on its outer end; of a sleeve slidably mounted on said rod, having a hole in its upper side, and a ring-like member secured thereto, upon which is secured a fish landing net; a spring actuated lever pivotally mounted on said handle having a hook on its forward end which automatically engages the hole in said sleeve when the same is slid back against the handle, thereby to lock said net supporting ring in an inoperative position, said lever being manually rocked to release said sleeve, whereby the same may slide forward on said rod and against said stop.

1,450,323. SAFETY DEVICE FOR TOOLS. JAMES E. MCGUIRE, Camden, N. J. Filed Mar. 12, 1921. Serial No. 451,726. 5 Claims. (Cl. 145—35.)



1. The combination with a tool handle having a recess formed therein, of a pivoted spike member mounted in the recess, and yieldable means normally acting to throw said spike member to inoperative position with the upper face thereof flush with the surface of the tool handle.

1,450,324. LIGHTING ACCESSORY FOR AUTOMOBILES. WILLIAM STUART MCKENZIE, Creighton Mine, and ROBERT RICHARDSON, Copper Cliff, Ontario, Canada. Filed Nov. 28, 1921. Serial No. 518,394. 2 Claims. (Cl. 240—7.)



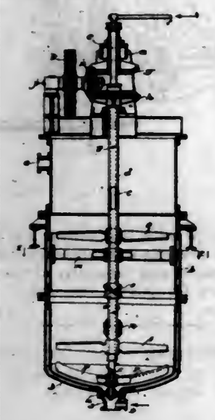
1. A ditch light comprising, in combination with the headlight of an automobile, a T-shaped bracket fastened to the outer side of the head light shell, a lug extending from the bracket and provided with an orifice, a support formed with a cylindrical member carrying a threaded pin within the orifice, means to freely retain the pin within the orifice, a semicircular element on the cylindrical member, a shell mounted on the support provided with a socket, a light in the socket, and wire connections to the socket.

1,450,325. INSTALLATION FOR THE WASHING AND COMBING OF PIGS' BRISTLES. DANIEL MAGNY, Issoudun, France. Filed Apr. 6, 1921. Serial No. 459,142. 4 Claims. (Cl. 19—66.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



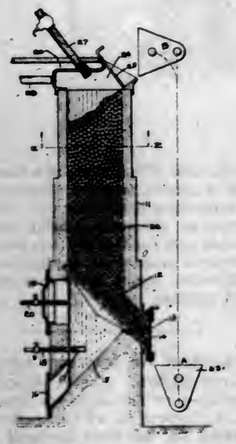
1. An installation for the washing and combing of moistened or scalded pig's bristles comprising in combination a tank, a washing drum therein provided with teeth and bars into which the raw bristles are introduced, a washing receptacle, washing liquid in said receptacle, a mill with radial arms rotating in said receptacle inclined troughs for straightening the bristles delivered by said mill, means for pressing said bristles, means for combing said bristles and means for actuating said drum, mill and pressing means.

1,450,326. APPARATUS FOR TREATING OILS. HAROLD T. MAITLAND, Sharon Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed June 21, 1918, Serial No. 241,210. Renewed Aug. 29, 1922. Serial No. 585,080. 10 Claims. (Cl. 259—105.)



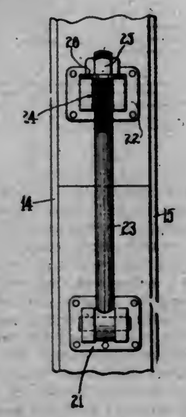
1. A digester and mechanical masticator comprising a vessel, a rotatable upright hollow shaft, a hollow stirrer secured to and communicating interiorly with the shaft, means to introduce fluid into the upper part of the shaft, the same therefore passing through the shaft into the stirrer and thence into the interior of the vessel, and means to introduce washing liquid into the vessel through the bottom thereof.

1,450,327. PROCESS OF DISTILLING BITUMINOUS MATTER. WILLIAM MEISCHKE-SMITH, Boldre Hill, Boldre Hants, England. Filed Apr. 26, 1920. Serial No. 376,844. 2 Claims. (Cl. 196—27.)



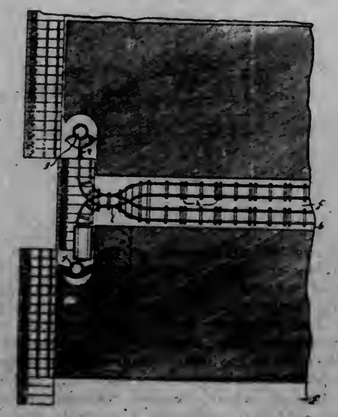
1. A process of distilling bituminous matter which comprises feeding said matter into an enclosed chamber; feeding balls of incombustible material into said chamber; maintaining a combustion zone in a portion of said chamber, said chamber being so formed that the hot gases from said combustion zone pass between the spaces between said balls and reduce said bituminous matter to coke before said balls and bituminous matter reach said combustion zone; and removing said balls after they have passed through said combustion zone so that they may be subsequently fed back into said chamber.

1,450,328. JACKET FOR PRELIMINARY CURE. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1920, Serial No. 401,217. Renewed Sept. 7, 1922. Serial No. 586,799. 3 Claims. (Cl. 18—38.)



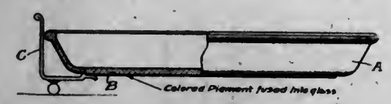
1. A mold for use with tire casings comprising side members, a member extending around the tread of the tire and constructed and arranged to overlap the side members whereby as it is contracted it will press the side members against the sides of the tire, and means for contracting the tread member.

1,450,329. MINE-ROOF-SUPPORTING METHOD AND APPARATUS. EDMUND C. MORGAN, New York, N. Y. Original application filed Jan. 5, 1916, Serial No. 70,341. Divided and this application filed Sept. 9, 1922. Serial No. 587,188. 97 Claims. (Cl. 262—1.)



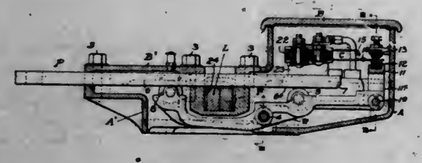
1. The method of mining which consists in dislodging material from the face of a mine vein, forming an elongated roof support adjacent the working face by a series of individual mine props, each self-sustaining and each adapted to slide over the mine floor while retaining itself in upright position, and gradually shifting the line of roof support in accordance with the advance of mining operations.

1,450,330. OVENWARE AND HOLDER THEREFOR. HARRY NEGBAUR, New York, N. Y., assignor to E. & J. Bass, Incorporated, a Corporation of New York. Filed Nov. 25, 1921. Serial No. 517,424. 4 Claims. (Cl. 49—92.)



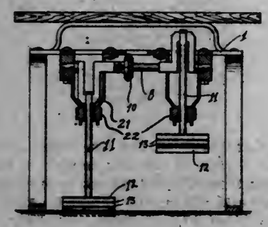
3. A baking dish made of transparent boro-silicate glass having a yellowish tinge and provided with mineral coloring material fused into the glass near one surface, whereby the dish is rendered translucent and colored.

1,450,331. PLUNGER LOCK WITH CIRCUIT CONTROLLER FOR RAILWAY SWITCHES. WALTER P. NEUNERT, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 29, 1922. Serial No. 585,033. 3 Claims. (Cl. 246—253.)



2. In combination, a casing provided with a rectangular slot, a rectangular plunger mounted to reciprocate in said slot and adapted for co-operation with a railway switch lock rod, said plunger having a recess in its under surface, a rocker arm pivotally mounted beneath said plunger and having two rollers co-operating with the plunger in such manner that when the plunger is projected into locking position one roller occupies said recess and the other roller coacts with an unrecessed point on the under surface of the plunger, whereas when the plunger is retracted to unlocking position the first roller engages an unrecessed point on the under surface of the plunger and the second roller is free from the inner end of the plunger, and a circuit controller located in said casing and operated by said rocker arm.

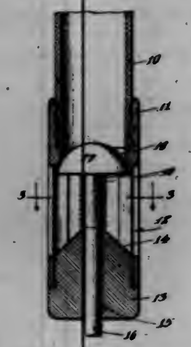
1,450,332. MOTOR-DRIVEN SLED. LUDWIK R. PIETRAS, Joliet, Ill. Filed Mar. 30, 1921. Serial No. 456,826. 1 Claim. (Cl. 180—4.)



A vehicle propelling mechanism comprising a frame, a power driven shaft mounted therein, a pair of cranks on said shaft, casings attached to said frame at the sides of

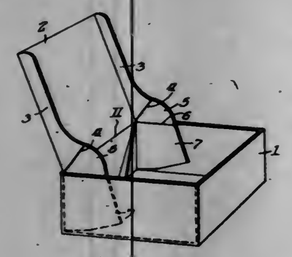
said cranks and extending therebelow, connecting rods engaging said cranks, guide bearings for said rods, said bearings being pivotally carried by adjacent pairs of said casings parallel with said shaft, and curved shoes fixed on the free ends of said rods, said shoes having teeth on their outer convex faces adapted to engage the surface over which the vehicle travels.

1,450,333. PUMP CONSTRUCTION. ANDREW H. REED, Fullerton, Calif. Filed May 24, 1922. Serial No. 563,210. 2 Claims. (Cl. 103—220.)



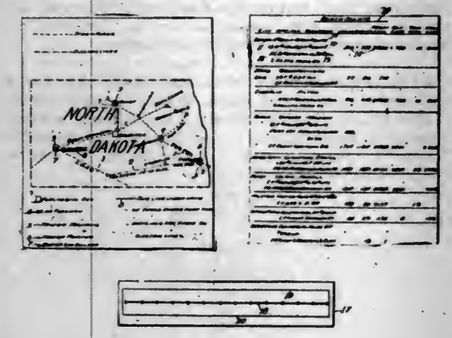
1. In a pump construction, the combination with the standing valve thereof, of a perforated pipe connected with the standing valve, a valve cage connected with the lower end of the perforated pipe and having openings in its side and having a port communicating with the pipe, a valve stem guide connected with the valve cage and having an upwardly tapering portion projecting above the lower ends of the valve cage openings, there being a bore at the axis of the valve stem guide, a valve to close the port and opening downward therefrom and having a stem slidably fitting the bore of the guide, and a spring surrounding the valve stem between the guide and valve.

1,450,334. PASTEBOARD BOX. HANS SCHWENNEKE, Chicago, Ill., assignor to Globe Paper Box Company, Chicago, Ill. Filed Apr. 26, 1921. Serial No. 464,580. 9 Claims. (Cl. 206—44.)



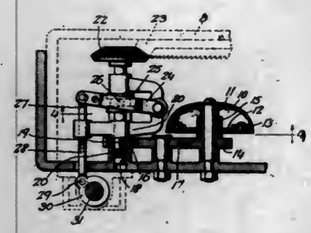
1. In a pasteboard box or the like, a cover singly hinged from a side of the box having a folding pasteboard portion thereof which forms a supplemental hinge for the cover and which will unfold to form a means to limit the gyration of the cover, the limit of gyration being beyond the line of the side of the box to which the cover is hinged, so the angle between the inside face of the cover and the inside face of the hinged side of the box will be more than one hundred and eighty degrees.

1,450,335. TRAVEL AND SALES GUIDE. JOHN H. SHARP, Chicago, Ill. Filed June 27, 1918. Serial No. 242,230. 2 Claims. (Cl. 35—6.)



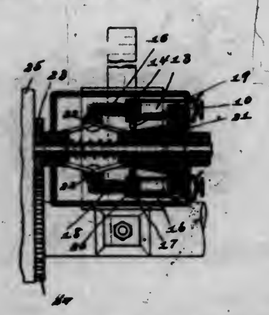
1. In a travel guide of the kind described and in combination, a geographical chart drawn to scale and provided with symbols designating desired points thereon, a series of symbolic lines connecting said desired points and indicating the detailed character of the travel therebetween, and another series of symbols for visually indicating facts relative to said desired points and intermediate points whereby a travel route may be determined in advance, based upon the facts set forth on the chart, a transparent graduated gage provided with means for indicating distances between points corresponding with the scale to which the chart is drawn and for indicating territory within a predetermined area at each side of the line connecting said desired points, and means provided with minutely detailed information regarding said points.

1,450,336. AUTOMOBILE PROTECTIVE DEVICE. JOHN H. SHARP, Chicago, Ill. Filed Nov. 22, 1919. Serial No. 339,906. 5 Claims. (Cl. 116—33.)



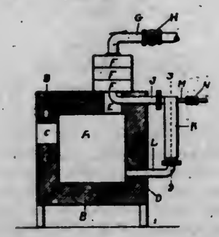
3. A vehicle attachment of the character described, comprising an alarm mechanism disposed within the interior of the brake drum housing and carried by the axle housing, actuating means therefor comprising driving gears, a driven shaft, means for driving said shaft comprising intermeshing gears, one being carried by the shaft and the other by the brake drum, means for supporting the shaft for a sliding movement to move said last mentioned gears into or out of operative relation, and means for shifting said gears including a shiftable arm, a bracket supporting the arm, and locking mechanism for maintaining said gears in operative relation to cause an actuation of the arm upon a rotation of the vehicle wheels.

1,450,337. AUTOMOBILE SIGNAL. MYRON D. SHIVERICK, Albany, N. Y., assignor to Sweet & Doyle Foundry and Machine Co., Green Island, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 451,958. 6 Claims. (Cl. 175—355.)



1. The combination with a vehicle, of an electric signal included in an electric circuit with two circuit-making-and-breaking members, a centrifugal governor operated in accord with the driving mechanism of the vehicle, means associated with each of said members to close the circuit when the speed of the vehicle is decreased below or increased above a predetermined limit.

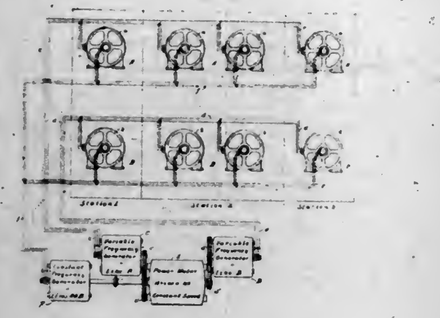
1,450,338. APPARATUS FOR PRODUCING GASEOUS FUEL. MAX SKLOVSKY, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 13, 1917. Serial No. 154,588. 6 Claims. (Cl. 158—4.5.)



1. An apparatus of the character described, comprising a furnace having a combustion chamber, a vaporizing chamber arranged to discharge into said combustion chamber, means for supplying said vaporizing chamber with air heated to a temperature high enough to substantially wholly vaporize fuel oil and for causing said air to flow through said vaporizing chamber at high velocity, and a fuel oil supply pipe discharging into said vaporizing chamber at a point remote from the outlet therefrom to the combustion chamber, for introducing fuel oil into the stream of air flowing through said vaporizing chamber, whereby the oil will be thoroughly intermixed with the air by the velocity of the latter, and substantially vaporized by the temperature of the heated air during the time it is associated therewith in the vaporizing chamber before discharge into the combustion chamber.

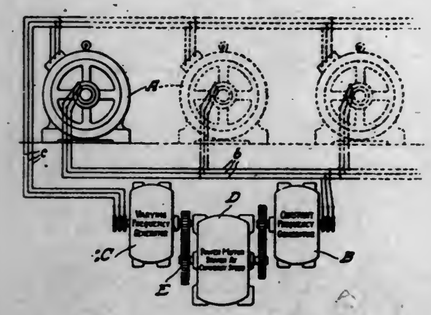
1,450,339. INTERMITTINGLY-OPERATING MOTOR SET. REUBEN STANLEY SMITH and JAMES L. ADAMS, Jr., Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Aug. 4, 1919. Serial No. 315,189. 19 Claims. (Cl. 172—237.)

19. In an electric motor drive system, motors separately grouped, and means for supplying a current of constant frequency to one element of the motors of the several groups, in combination with means for supplying



currents of varying frequency to the other element of the motors of the different groups in periods alternating with each other.

1,450,340. INTERMITTINGLY-OPERATING MOTOR SYSTEM. REUBEN STANLEY SMITH and JAMES L. ADAMS, Jr., Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,824. 11 Claims. (Cl. 172—237.)

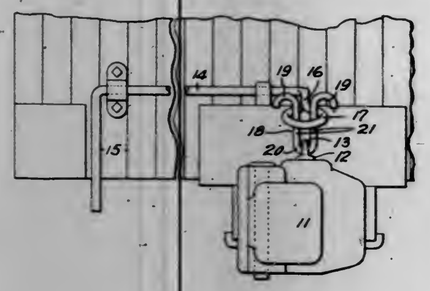


10. The method of driving an electric motor at a varying speed in recurrent periods of rising and falling frequency, said method comprising the generation and delivery of a current of constant frequency to one element of the motor, and the generation and delivery of a current of varying frequency to the other element of the motor, the varying frequency current at its minimum and the constant frequency current being of equal value, the motor making the same total number of revolutions in each of said recurrent periods.

1,450,341. CAR-UNCOUPLING DEVICE. ERNEST R. VIBERG, Montreal, Quebec, Canada, assignor to Sterling H. Campbell, St. Louis, Mo. Filed Oct. 4, 1920. Serial No. 414,579. 5 Claims. (Cl. 213—170.)

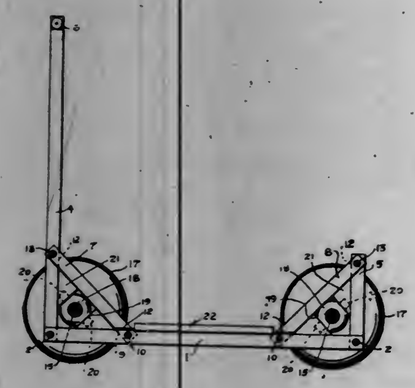
3. In an uncoupling device, the combination of a coupler lock pin having an eye at its upper end, an uncoupling lever provided with a vertical eye, a substantially U-shaped link engaging the eye of the pin and having both arms passing through the lever eye, the upper extremities of said arms being turned outwardly to engage with the uncoupling lever to lift the pin and the eye of the un-

coupling lever being large enough to receive the upper end of the lock pin, whereby the parts may be assembled



in operative relation by threading the link through the eye of the pin while the head of said pin extends through the eye of the lever.

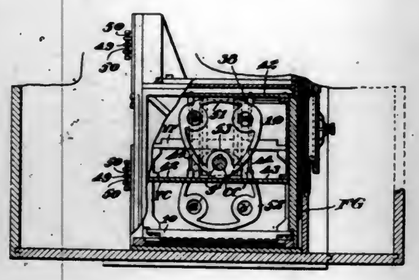
1,450,342. TOY SCOOTER. EDWARD M. WALKER, Detroit, Mich. Filed Aug. 5, 1921. Serial No. 489,945. 5 Claims. (Cl. 280—87.5.)



2. A coasting vehicle comprising a body, uprights at the ends of said body, braces connecting said uprights to said body, bearing blocks mounted between said body, uprights and braces, axles trunnioned between said bearing blocks, and wheels on the ends of said axles.

1,450,343. CINEMATOGRAPHIC FILM-FEEDING MECHANISM. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Original application filed Sept. 11, 1916, Serial No. 119,377. Divided and this application filed Apr. 25, 1921. Serial No. 464,204. 23 Claims. (Cl. 88—18.4.)

1. Motion picture apparatus comprising a reciprocating film-feeding member, one or more counterbalancing reciprocating member or members, and means for reciprocating said members in opposite directions, whereby vibration



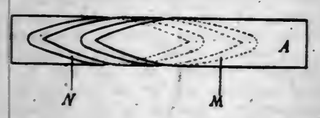
due to the reciprocation of said film-feeding member is prevented.

1,450,344. CUFF BUTTON. EBEN F. WILDE, Attleboro, Mass., assignor to The Baer & Wilde Company, Attleboro, Mass., a Corporation of Massachusetts. Filed July 14, 1922. Serial No. 575,009. 13 Claims. (Cl. 24—162.)



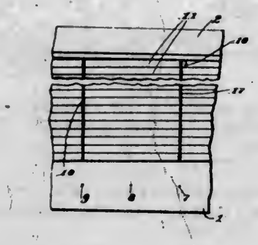
1. A cuff button having male and female members, the male member thereof comprising a body portion having a head at one end and a stud member fixedly embedded in said body portion at its other end and projecting therefrom, said stud member being of drawn sheet steel.

1,450,345. RECIPROCATING POWER AIR PUMP. ROY W. ADAMS, New Britain, Conn. Filed Feb. 20, 1922. Serial No. 538,045. 1 Claim. (Cl. 74—14.)



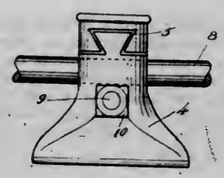
In mechanism of the kind described the combination of a plunger which reciprocates and revolves and which contains two similar endless spiral grooves, a revolving member mounted on the plunger, a means of supporting the plunger on both sides of the revolving member, a member set in the revolving member and engaging one of the grooves in the plunger, a member set in the means of supporting the plunger and engaging the other groove in the plunger, substantially as set forth.

1,450,346. PROCESS OF MAKING RESILIENT SPLIT RINGS. JAMES G. ANDERSON, Needham, Mass., assignor to Pressure Proof Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1921. Serial No. 449,925. 8 Claims. (Cl. 29—156.6.)



1. That process which comprises removing a short section from a turn of a helical coil of tempered wire by spaced cuts whereby to cause the remainder of such turn to assume the form of an open compressible ring.

1,450,347. TROLLEY AND FEED WIRE CLAMP. LUTHER E. ARMENTROUT, Borderland, W. Va. Filed Jan. 3, 1923. Serial No. 610,508. 1 Claim. (Cl. 191—43.)



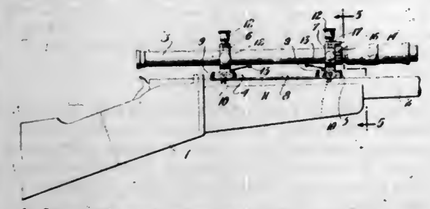
A clamp for the purpose specified comprising a shank portion screw threaded to receive the suspension bolt, a depending clamp portion extended laterally with semi-circular grooves to receive the feed wire and the trolley wire and a clamp plate provided with corresponding grooves, and means for clamping the two together, the clamp plate and shank being correspondingly mortised and tenoned to hold the clamp plate during the tightening of the clamp.

1,450,348. RING TWISTING OR SPINNING DEVICE. HERBERT G. BEEDE, Pawtucket, R. I. Filed Feb. 3, 1922. Serial No. 533,798. 10 Claims. (Cl. 118—56.)



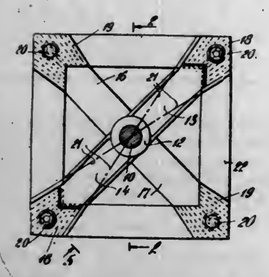
1. A ring spinning or twisting device comprising a ring rotatable about its own axis, and automatic means comprising a yarn engaging element for regulating the speed of rotation of said ring both in normal operation and in stopping.

1,450,349. TELESCOPE RIFLE SIGHT. WARREN S. BELDING, Philipsburg Borough, Pa. Filed Oct. 25, 1921. Serial No. 510,345. 3 Claims. (Cl. 33—50.)



1. In a telescopic rifle sight two mount bases each rigidly attached to the opposite ends of a suitable metallic connecting bar, said bar itself and means whereby each base and each end of the bar may be rigidly attached to a rifle barrel.

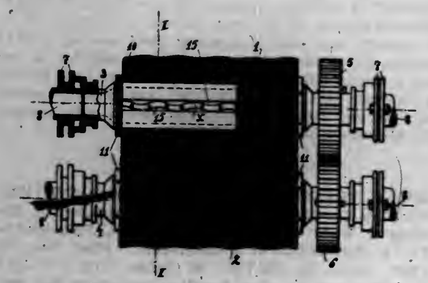
1,450,350. UNIVERSAL JOINT. HARVEY W. BELL, Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed Jan. 11, 1921. Serial No. 436,434. 2 Claims. (Cl. 64—96.)



1. In a universal joint, strips of flexible fabric arranged end to end in the form of a polygon, the adjoining ends of the several strips being angled to fit closely together in substantially abutting relation, a coupling member having arms carrying clamps each engaging end portions of two adjoining strips, and a second coupling member having arms carrying clamps each engaging other end portions of adjoining strips.

2. The structure of claim 1 in which the clamps are angled to fit the corners formed by the abutting strips and each extend across the full width of both abutting strips.

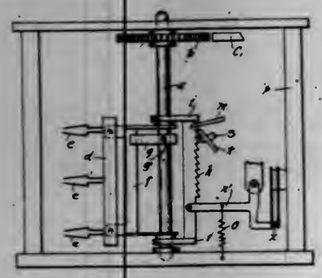
1,450,351. ROLLING MILL FOR MANUFACTURING CORRUGATED PASTEBOARD, SHEET METAL, AND THE LIKE. ALBERT BERAN, Hirschwang, Austria. Filed Apr. 22, 1922. Serial No. 556,099. 3 Claims. (Cl. 153—77.)



1. A roll for manufacturing corrugated goods having corrugations curved longitudinally comprising a support-

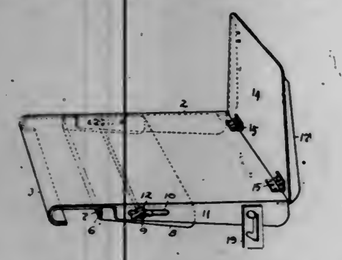
ing shaft, a plurality of disks mounted on such shaft and having projections on their outer circumferences, the said disks being exactly alike each other, a key having a curved portion engaging with the said disks and a portion adapted to be passed into and to engage with a groove in the said supporting shaft, and means for removably holding in position the disks and the key on the supporting shaft.

1,450,352. SELECTING SWITCH FOR USE IN TELEPHONE SYSTEMS. KURT BÖHME, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt bei Berlin, Germany. Filed Nov. 3, 1922. Serial No. 598,724. 7 Claims. (Cl. 179—27.5.)



1. In an automatic switch, a rotatable shaft, a wiper carriage slidably mounted on said shaft, a toothed rachet for moving said carriage along the shaft, and means slidably supporting said ratchet on the shaft directly opposite the normal position of said carriage.

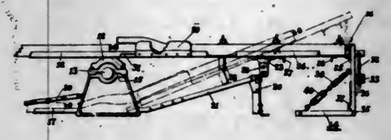
1,450,353. WINDOW SEATING ATTACHMENT. SAMUEL CHAPMAN, Cleveland, Ohio. Filed May 10, 1921. Serial No. 468,291. 3 Claims. (Cl. 304—24.)



1. A window seating attachment, comprising a sheet metal seat having strengthening flanges extending part of its length at each side thereof and provided with a hook-shaped extremity at its front end and a folding back at its opposite end, and a clamping plate having a front clamping flange and side tapering flanges adapted to rest upon a sloping sill, and a tie rod and thumb nuts extending through said side flanges and transversely beneath said seat and clamping plate, and thumb nuts engaged with the ends of said tie rods.

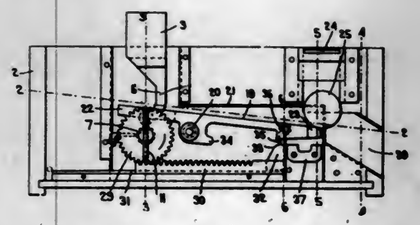
1,450,354. TRANSFER MECHANISM FOR CONVEYERS. WILLIAM H. CLAY, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 12, 1920. Serial No. 423,764. 26 Claims. (Cl. 198—43.)

1. A device of the class described comprising the combination with conveyer mechanism having upper and lower stretches provided with means to engage and move the articles to be carried, of a tilting table pivotally mounted at one end of said conveyer mechanism, and adapted to be



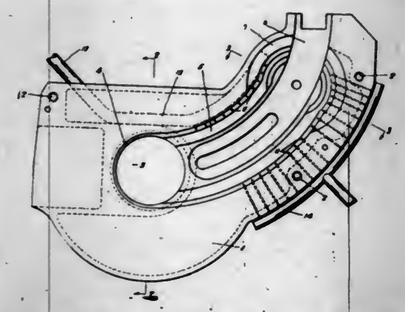
tilted to and fro to bring it into operative relation with the upper and lower stretches, respectively, of said conveyer mechanism.

1,450,355. COIN-CONTROLLED LOCK. MYER COHEN, Revere, Mass. Filed June 1, 1920. Serial No. 385,418. 12 Claims. (Cl. 194—51.)



11. In a lock for a drawer or other container, the combination with a key-operated bolt, of a coin slot, and coin-controlled means normally preventing the bolt from being operated to lock the drawer but adapted to permit such operation upon the deposit of a coin in the coin slot, said means again becoming operative to lock the bolt from movement after the bolt has been actuated to unlock and lock the drawer again.

1,450,356. CAP STERILIZER AND CAN-CENTERING PLATE FOR CAN-SEALING MACHINES. ALBERT N. CRAMER, Columbus, Ohio. Filed Mar. 11, 1918. Serial No. 221,786. 7 Claims. (Cl. 113—14.)

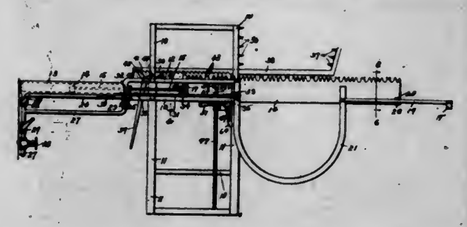


7. A centering plate comprising means for sterilizing a cap and then supporting it in position for application to a can.

1,450,357. CROSSCUT SAWING MACHINE. EARL W. CURTIS, Fort Madison, Iowa. Filed July 1, 1920. Serial No. 393,275. 8 Claims. (Cl. 143—68.)

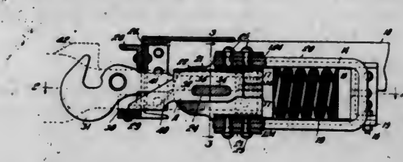
1. In combination, a track; a carriage mounted on the track; a screw shaft mounted on the carriage and having threaded connection with the track; a ratchet wheel on the screw shaft; a reciprocatory member mounted on the

carriage; a rotary member journaled on the screw shaft; a strap wound on the rotary member and connected with said reciprocatory member; a pawl engaging the ratchet



wheel and mounted on the rotary member; a spring connected with the rotary member; and an adjustable stop in the path of the reciprocatory member.

1,450,358. RAILWAY DRAFT RIGGING. CHARLES E. DATH, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 18, 1920. Serial No. 411,317. 9 Claims. (Cl. 213—69.)



1. In a railway draft rigging, the combination with a hooded yoke; of a coupling having a shank transversely recessed intermediate its ends; an intermediate member disposed within the yoke hood and having a longitudinally extending opening within which said shank is received and provided also with a transversely extending opening; and a key extending through said opeping of said member and engaging said shank within said recess of the latter.

1,450,359. MOUTHPIECE FOR SMOKING TOBACCO. RICARDO DOCAMPO, Buenos Aires, Argentina. Filed Apr. 6, 1918. Serial No. 227,110. 3 Claims. (Cl. 131—22.)



3. In a device of the class described, in combination, a tubular tobacco container closed at both ends and having a lateral opening for replenishing the supply of tobacco, a mouth piece at one end of said tubular container, a passage communicating with said mouth-piece and the opposite end of said tubular container, means including a disk arranged within said tubular container for progressively moving the tobacco therein against the end of said container with which said passage communicates, and a ring connected with said disk through said lateral opening, adapted partially to surround said reservoir and constitute positioning and guiding means for said disk.

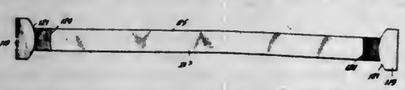
1,450,360. SELF-COMPUTING LEVEL ROD. EDWARD P. EFFERTZ, Winona, Minn. Filed Nov. 6, 1920. Serial No. 422,196. 6 Claims. (Cl. 33—74.)

1. A level rod comprising a rod member provided with a scale at each side thereof, said scales reading in opposite direction, a ribbon arranged on said rod to move between said scales, said ribbon having scales on its outer



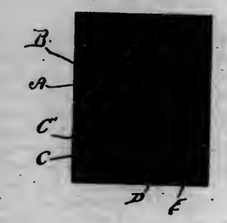
face adjacent the scales on said rod member, the scales on said ribbon reading in opposite directions to each other.

1,450,361. PROCESS OF MANUFACTURING DRAFT-RIGGING YOKES. GEORGE G. FLOYD, Riverside, Ill., assignor to William H. Miner, Chazy, N. Y. Filed July 24, 1919. Serial No. 313,097. 1 Claim. (Cl. 29—167.)



The herein described process of manufacturing an assembled yoke having a hollow head and a substantially U-shaped strap which, when assembled in operative condition, have shouldered engagement with each other, including: providing a hollow head having side, top and bottom walls; providing a substantially U-shaped strap of the finished size and form employed in the operative structure, each of the arms of the strap having spaced shoulders adapted for engagement with portions of said head when the two parts are operatively assembled; temporarily deforming said strap of the finished size and form to an overall height less than the distance between the top and bottom walls of the head to permit the head and strap being telescopically assembled; telescopically assembling the head and temporarily deformed strap; and finally reforming the strap to its finished size and operative form with the shoulders thereof in cooperative relation with the corresponding portions of the head.

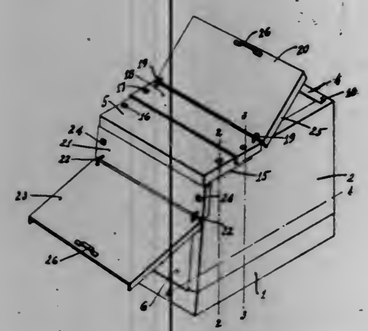
1,450,362. ELECTRIC COIL. PHILIP GILINSON, Lowell, Mass., assignor to Butler Ames, Lowell, Mass. Filed Feb. 10, 1919. Serial No. 276,007. 5 Claims. (Cl. 175—21.)



4. In an electric coil an insulator comprising a pair of superposed ribbons of insulating material, one of the rib-

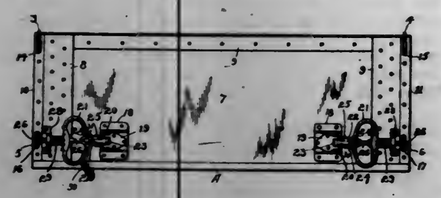
bons being wider than the other and being folded over the other at both sides, and a conductor wound around said insulator upon the narrow ribbon and between the folded over ends of the wider ribbon.

1,450,363. GARBAGE RECEPTACLE. SAMUEL GLENN, Detroit, Mich. Filed Sept. 14, 1921. Serial No. 500,618. 1 Claim. (Cl. 220—22.)



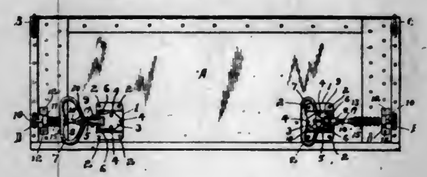
A garbage receptacle comprising a bottom, side and end walls, plates having their ends extended at right angles to the major portion of the plates to provide flanges, one of said plates being engaged with the top of the side walls, the flanges of said plates engaging the edges of said walls to assist in supporting the walls, the remaining plates being engaged with the front ends of the side walls, the flanges of the second mentioned plates engaging the edges of the side walls to assist in supporting said walls, means securing said plates to the walls, and a cover plate hinged to each of said plates remote from the hinged connection of the adjacent plate.

1,450,364. END GATE. JOSEPH M. GRAY, Brownstown, Ind., assignor of one-third to Joseph M. Robertson and one-third to Martin P. Pferrer, both of Brownstown, Ind. Filed Mar. 20, 1922. Serial No. 545,263. 1 Claim. (Cl. 296—53.)



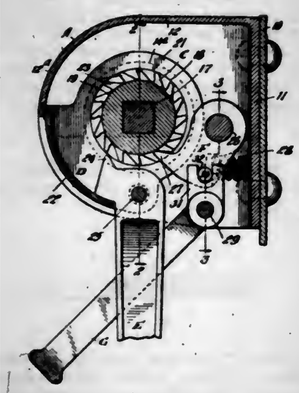
In combination with a vehicle bed adapted to receive an end gate to close the end thereof, flat-hooks extending out and back from the end of the upper portion of the bed, shackles extending out and back from the lower portion of the end of the bed, an end gate having channels at each end to receive the ends of the sides of the bed, there being slots in the bottoms of said channels through which said hooks and shackles project rearward beyond the end gate with the end gate suspended upon said hooks, plungers adapted to enter eyes in said shackles to lock the end gate in operative position, handles for manually operating said plungers, and spring means for positively holding the plungers resiliently in or out of operative position.

1,450,365. END-GATE LATCH. JOSEPH M. GRAY, Brownstown, Ind., assignor of one-third to Joseph M. Robertson and one-third to Martin P. Pferrer, both of Brownstown, Ind. Filed Mar. 20, 1922. Serial No. 545,264. 2 Claims. (Cl. 292—66.)



1. A latch device comprising a shank pivoted at one end, a handle carried by the other end of the shank, a fork striding the central portion of the shank and pivoted thereto, a plunger integral with said fork, a shoulder on said plunger, a guide bracket through which the plunger may operate, a spring surrounding the plunger and pressing upon said shoulder and the guide bracket, and means for limiting the outward swing of the handle, all substantially as shown and described.

1,450,366. HAND BRAKE. STACY B. HASELTINE, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 8, 1922. Serial No. 559,166. 7 Claims. (Cl. 74—118.)



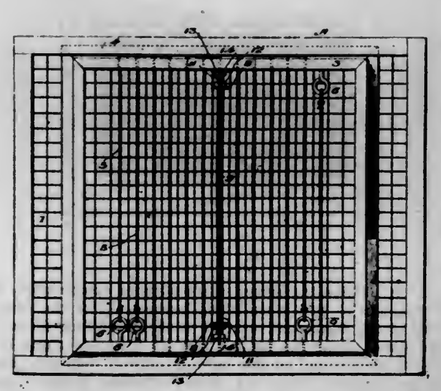
1. In a hand brake mechanism, the combination with a bracket adapted to be secured to a car wall; of a horizontally extending chain-winding member rotatably supported in said bracket; ratchet means for rotating said member step by step in a winding direction; means preventing accidental rotation of said member in an unwinding direction; and means for attaching the end link of the chain to said member including, two elements relatively longitudinally movable lengthwise of said member and having co-operable interlocking parts, one of said parts having a finger extending through the end link to thereby lock the latter between said elements when the elements are assembled.

1,450,367. DECORATIVE FABRIC AND METHOD OF MANUFACTURING SAME. WALTER E. HAZELTINE, Stamford, Conn., assignor to Atlas Powder Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 15, 1921. Serial No. 437,406. 4 Claims. (Cl. 91—67.9.)



1. A figured fabric having a coating of transparent material the surface of which is embossed with a fine pebble grain to eliminate gloss.

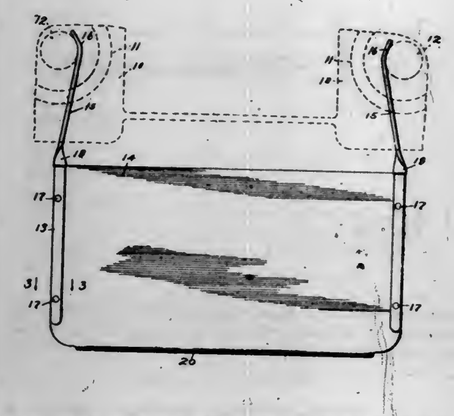
1,450,368. EGG TRAY. FRANK E. HILT, Lyons, Kans. Filed Oct. 14, 1919. Serial No. 330,568. 2 Claims. (Cl. 99—6.)



1. An egg tray comprising a frame, continuous wires stretching thereacross and extending loosely through holes in opposite sides thereof, means with which the ends of the wires are connected for applying tension thereto, means comprising a rod having plates loosely mounted thereon with which ends of the wires are connected, and means on the rod for moving said plates along the rod to apply tension to the wires connected with said plates.

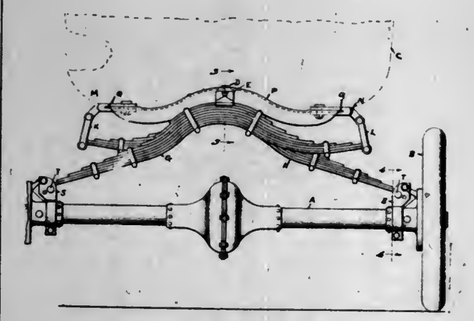
1,450,369. KEYBOARD SCREEN FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Mar. 24, 1919. Serial No. 284,804. 3 Claims. (Cl. 197—105.)

1. A typewriter keyboard screen comprising a plate having a ledge extending along the forward edge thereof and having resilient arms extending rearwardly from the opposite edge thereof, said arms having outwardly bent portions at their ends arranged to be sprung inwardly so that the ends of said bars will pass between upwardly



projecting portions on a typewriter and spring outwardly to resiliently engage said portions and hold said screen in place on said typewriter.

1,450,370. SPRING SUSPENSION FOR VEHICLE BODIES. JULIUS J. HUEBNER, Detroit, Mich. Filed Oct. 26, 1921. Serial No. 510,595. 1 Claim. (Cl. 267—44.)



Means for effecting the resilient suspension of a vehicle body upon its axle, comprising a yoke member and a cross bar member depending from the body, a pair of spring members each having a slidable engagement with said yoke member, and each of said spring members being curved in horizontal and vertical planes, a goose-neck connecting the upper end of each spring member with the cross bar member, and means for connecting the bent lower end of each spring member with that end of the axle on the opposite side of the vehicle from that whereon its corresponding goose-neck connection is located.

1,450,371. TRUCK CONVEYER. LEONARD E. HURST and JAMES F. MILLER, Detroit, Mich. Filed Dec. 30, 1922. Serial No. 609,870. 5 Claims. (Cl. 104—162.)

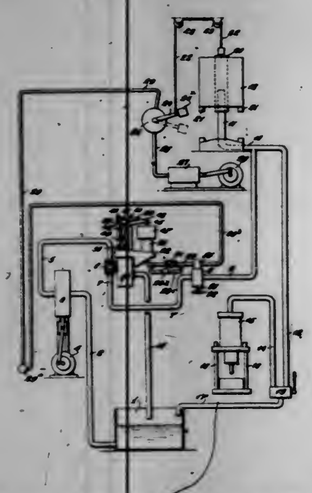
2. In a conveyer for trucks, a pair of tracks for the truck wheels, guides between the tracks, a pair of bars slidably mounted in the guides, dogs mounted on the bars and adapted to engage projections on the trucks, and

means to move the bars back and forth comprising a worm wheel, a vertical shaft on which said worm wheel is



mounted, means to rotate the worm wheel, a crank pin mounted on the worm wheel and a connecting rod extending from the crank pin to said bars.

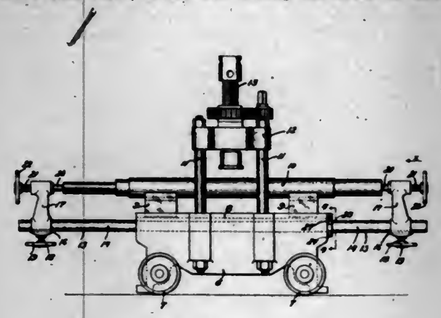
1,450,372. FLUID-PRESSURE SYSTEM. WILLIAM E. IRISH, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 16, 1919. Serial No. 290,621. 22 Claims. (Cl. 138—10.)



1. In a system of the character described, the combination with a conduit, of means for forcing fluid thereinto under pressure, a device for temporarily diverting from said conduit a part of the fluid forced thereinto, fluid control means for operating said device, said device being operable to divert said fluid from said conduit by a diminution of pressure in said fluid control.

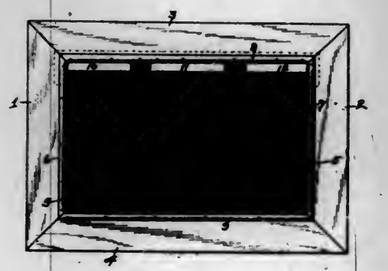
1,450,373. STRAIGHTENING PRESS. FRANK S. JONES, Philadelphia, Pa. Filed May 1, 1920. Serial No. 378,145. 5 Claims. (Cl. 153—53.)

1. A straightening press including a base, straightening means, aligned blocks for supporting an article to be straightened, a shaft rockably mounted upon the base under, and in the same vertical plane with, the centers of the supporting blocks, arms slidably mounted upon the rock shaft and adapted to be moved to extend vertically above said shaft, means for locking the arms in their



vertical position and centering members carried by the arms and movable into position to support the article above the supporting blocks, substantially as described.

1,450,374. FLY-ELIMINATING SCREEN. JAMES E. JONES, Richmond, Ind. Filed Feb. 28, 1921. Serial No. 448,314. 1 Claim. (Cl. 156—37.)

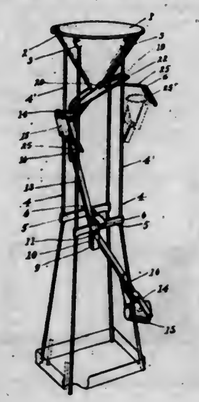


A fly eliminating screen comprising in combination, a frame, a wire screen extending between all of the members of the frame and secured to the outer face thereof, the screen being cut horizontally at intervals along its upper portion and at the ends of each of said cuts the screen material being cut down vertically a short distance whereby the material between each part of the vertical cuts may be turned outward and downward thereby forming a plurality of slots, a blind which is impervious to light rigidly secured on the inside face of the frame and extending from the upper rail of the frame downward to a point below said slots thereby forming a pocket between the blind and the upper portion of the screen, all substantially as shown and described and for the purposes set forth.

1,450,375. SAND TOY. GEORGE A. KEHL, St. Paul, Minn. Filed Dec. 10, 1921. Serial No. 521,354. 6 Claims. (Cl. 46—37.)

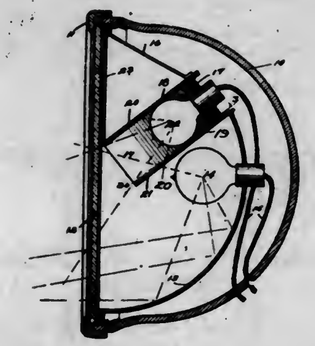
1. In a sand toy of the class described, the combination with the sand container, said container having an opening in the bottom thereof, of a trough open at the ends disposed symmetrically directly beneath said opening and spaced therefrom, tripping arms carried by said trough, horizontally disposed oblong openings, one in each side wall of the trough midway between the ends thereof,

said openings being on a level and aligned at right angles to the trough, a pin supported by the container



and extending through said openings, each of said openings having an arched upper edge for the purpose set forth.

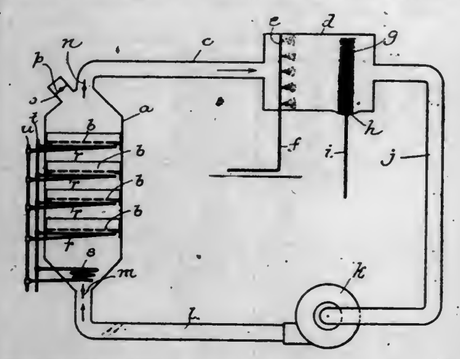
1,450,376. LIGHT-DEFLECTOR. WILLIAM R. MCANALLY, Fort Dodge, Iowa. Filed Nov. 30, 1921. Serial No. 518,817. 1 Claim. (Cl. 240—41.)



In a device of the class described, a casing open at its front, a reflector in the lower part of the casing, a bulb holder at the upper portion of said reflector, a closure member extending across the upper front portion of said casing, a reflector and light ray directing device mounted in the upper part of said casing, having a rear reflecting wall curved from end to end and from one side of the front of the casing to the other, and having flat upper and lower walls, inclined from their rear edges downwardly and forwardly, and a bulb holder at the back of said latter reflector.

1,450,377. METHOD OF DRYING COLLOIDS. GEORGE PERKINS LUNT, New York, N. Y. Filed Apr. 7, 1916. Serial No. 89,680. 15 Claims. (Cl. 34—24.)

3. The method of drying colloids containing a volatile solvent, which consists in heating the material, passing an inert gas adapted to serve as a vehicle for the vapor of said solvent past and in contact with the heated colloidal material in a closed circuit, whereby the same gas is caused to make contact repeatedly with the material, and constantly removing such vapors from the gas at a rate regulated to maintain the vapor content of the gas at such degree of concentration that the rate of



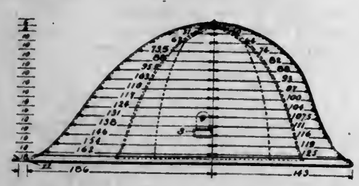
surface evaporation from the material is substantially equal to the rate of diffusion of the solvent through the mass of the material.

1,450,378. VEHICLE SPRING. WILLIAM D. KELLY, Riverside, Ill. Filed Aug. 5, 1922. Serial No. 579,848. 22 Claims. (Cl. 267—54.)



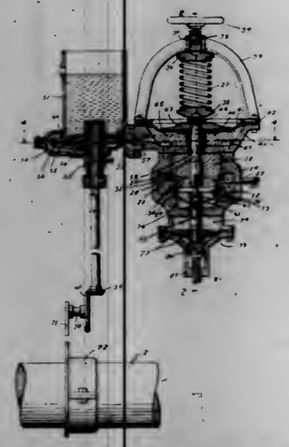
1. A laminated vehicle spring comprising a plurality of superposed tapered leaves of substantially the same length, spacers between the relatively movable free ends of the leaves, each spacer being rigid with one of the adjacent leaves and in sliding contact with the other, a supporting bracket, and an oscillating member journalled in said bracket and with which the free ends of said leaves are maintained in load-supporting relation with the free end of one leaf in fixed relation thereto.

1,450,379. HELMET. JAMES E. MCNARY, Chicago, Ill., assignor to John W. Weeks, Secretary of War of the United States of America. Filed Sept. 7, 1920. Serial No. 408,734. 3 Claims. (Cl. 2—117.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A continuously curved reversible helmet of substantial convex curvature at the top and gradually changing at all points of its circumference from the convex curvature at the top to concave curvature at the rim, the distance from the apex of the helmet to the front extremity of the rim being approximately 20% greater than the distance from the apex to the rear extremity of the rim thereby affording protection to the face and chest, and upon reversal affording protection for the neck and spine.

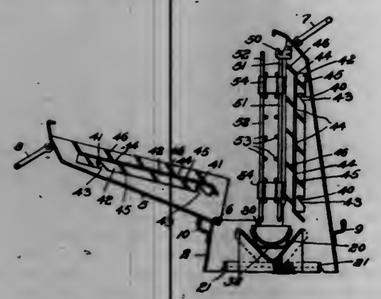
1,450,380. GOVERNOR. ADOLPH F. MEYER, St. Paul, Minn. Filed Mar. 29, 1920. Serial No. 369,604. 17 Claims. (Cl. 303—21.



1. Means for the automatic maintenance of any desired uniform speed of rotation of a driven member working under a friction load produced by fluid pressure including, a pass adapted to supply fluid under pressure, a valve movable to control the pressure under which said fluid is supplied, a rotary element actuated by said driven member, and fluid means co-operable with said element to control valve movement whereby said uniform speed of rotation is automatically maintained.

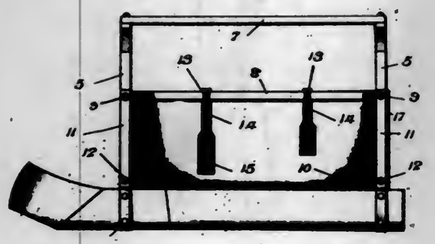
5. Means for the automatic maintenance of any desired uniform speed of rotation of a driven member working under a friction load produced by fluid pressure including, a pass adapted to supply fluid under pressure, a valve movable to control the pressure under which said fluid is supplied, elastic means straining to move said valve in one direction, fluid means straining to move said valve in an opposite direction, a pressure chamber for said fluid means, means on said valve projecting into said pressure chamber whereby variations in the straining effort of said fluid means in said chamber produce valve movement in said opposite direction, and a rotatory element actuated by said driven member and adapted to vary the straining effort of said fluid means in said chamber in proportion to the speed of rotation of said driven member whereby said uniform speed of rotation is automatically maintained.

1,450,381. GRILL. HERBERT C. MIEVILLE, Davenport, Iowa, assignor to Squire Products Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 14, 1921. Serial No. 444,721. 8 Claims. (Cl. 53—5.)



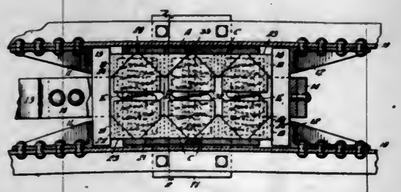
1. A broiler comprising a sheet metal casing adapted to seat over a burner, the walls of said casing tapering towards each other from the base, means to support a vertically disposed grill intermediate the walls of the broiler, baffle members positioned inside the broiler and adapted to cause heat from the burner to be directed against the said grill.

1,450,382. BOLL-WEEVIL TRAP. LESTER LEE MOORE, Winder, Ga. Filed June 20, 1921. Serial No. 478,869. 2 Claims. (Cl. 43—133.)



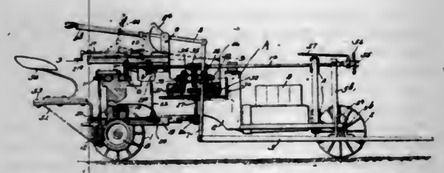
2. A portable trap to be moved over plants comprising spaced longitudinal pans, an arched frame secured at its terminals to the pans and including a transverse rod therein above the pans, weighted pendulums suspended on said rod for independent forward and rearward swinging movement only, and means on the rods for spacing the pendulums apart.

1,450,383. FRICTION SHOCK ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 6, 1920. Serial No. 379,327. 6 Claims. (Cl. 213—39.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having a plurality of interior longitudinally extending friction surfaces; of series of friction wedges arranged in tandem formation, each series being disposed in an angle formed by two of the shell friction surfaces and cooperable with the latter; pairs of friction spring caps also arranged in tandem formation and each cooperable with a plurality of said wedges; and a spring resistance between each pair of spring caps.

1,450,384. PUSH-HARVESTER BINDER. SWAN OLSON, Minneapolis, Minn. Filed Feb. 17, 1921. Serial No. 445,839. 11 Claims. (Cl. 180—81.)



1. The combination with a push harvester and motor driven device for propelling the same, of a driving shaft

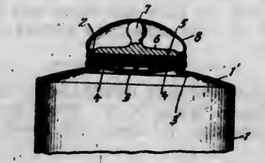
on said device, transmission mechanism connecting the same to the driving wheels for propelling said wheels including a clutch member, transmission mechanism for turning said wheels about a central vertical axis adapted to be connected and disconnected from said driving shaft, and means for simultaneously connecting the same to the driving shaft and disengaging said clutch.

1,450,385. MOTOR PLOW. STEWART V. V. PRINCE, Washington, D. C. Filed Jan. 8, 1919, Serial No. 270,163. Renewed Apr. 13, 1922. Serial No. 552,136. 10 Claims. (Cl. 97—30.)



1. A tillage implement comprising an extended narrow frame, movable supporting means extending substantially throughout the base of the frame, a ground treating element connected to the forward end of said frame for movement therewith in both a longitudinal and transverse direction, and control leverage means extending upwardly from the rear portion of the frame for tilting the frame longitudinally and transversely.

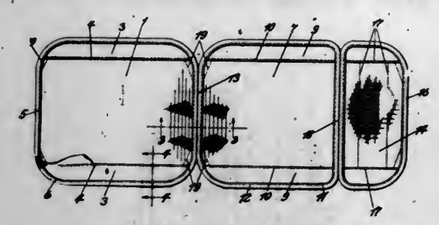
1,450,386. TOILET-POWDER CONTAINER. THOMAS J. REGAN, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,623. 1 Claim. (Cl. 132—82.)



An article of the kind described comprising a container having a discharge neck formed with a downwardly tapered interior face, a downwardly concaved partition extending across said neck, said partition having a series of apertures formed therein, a powder pad adapted to be carried in the neck of the container above the said partition and spaced from the depressed portion thereof and provide a seal preventing leakage of the powder from the container, and a cap secured upon the neck of the container and bearing against the said pad to hold the same in sealing engagement with its cooperating part.

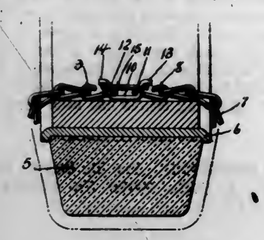
1,450,387. SEAT COVER. JOHN REECE, St. Louis, Mo., assignor to Evr-Klean Seat Pad Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 13, 1922. Serial No. 543,298. 3 Claims. (Cl. 155—182.)

1. A seat cover, comprising back and seat members, whose exposed surfaces are composed of straw matting and whose back surfaces are composed of cloth, a marginal reinforcement around each of said members, a pivot connection uniting said members permitting one



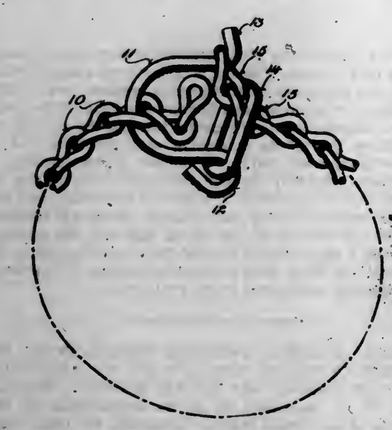
to be folded flat against the other, and a drop pivotally united to the forward edge of the seat member and having the warp straws thereof extending laterally.

1,450,388. DETACHABLE CHAIN HOOK. JOHN G. RIEFF, London, Wis. Filed Jan. 24, 1922. Serial No. 531,333. 3 Claims. (Cl. 59—85.)



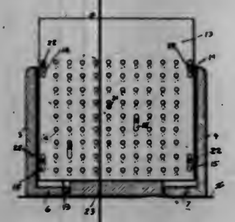
1. A detachable chain hook comprising a shank having offset oppositely projecting ends insertible through the respective links of a chain, and means removably secured between the offset ends and the respective links to lock the latter to the hook, said means permitting removal of each of said ends of said shank.

1,450,389. DETACHABLE CHAIN HOOK. JOHN G. RIEFF, London, Wis. Filed June 26, 1922. Serial No. 571,096. 2 Claims. (Cl. 59—93.)



1. The combination of a chain, a hook extending thru one of the links adjacent thereof, a closed loop pivotally secured to said hook, the other end of said chain extending thru said loop, and a finger on said hook extending thru a link on said latter end of the chain.

1,450,390. SEGREGATING APPARATUS. LEO S. ROBINSON, Alameda, Calif. Filed Dec. 30, 1918. Serial No. 268,974. 8 Claims. (Cl. 129—16.1.)



6. A segregating apparatus comprising a tray having removable supporting means therein; units having apertures therein adapted to be arranged in said tray; means for elevating said units with respect to said support means whereby said supporting means may be passed through the apertures in said units when the same are in the elevated position and may suspend the units thereon after the elevating means has been removed.

1,450,391. FASTENER. IRA D. SHAW, Boston, Mass. Filed June 4, 1921. Serial No. 475,054. 3 Claims. (Cl. 24—211.)

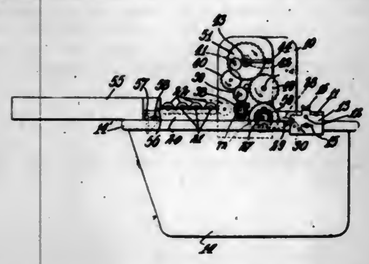


1. In a fastener, a stud member having an attaching head, a socket member having a casing with aligned openings in the top and bottom thereof, a resilient jaw within the casing for receiving and holding the head of the stud member introduced into the casing through the opening in the bottom thereof on combining said members, and a depressible member having a hollow crown forming a thumbpiece extending through the opening in the top of the casing and depressible from outside the casing, said depressible member having also a flange interposed between the jaw and the top of the casing adjacent the opening in it, and a part carried by said flange and operating to open said jaw when said depressible member is depressed by application of pressure to the thumbpiece.

1,450,392. PROCESS FOR THE PURIFICATION OF PROPIONATES BY THE ACTION OF BACTERIA. JAMES M. SHERMAN and EARLE O. WHITTIER, Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Filed Aug. 26, 1922. Ser. No. 584,540. 4 Claims. (Cl. 260—122.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

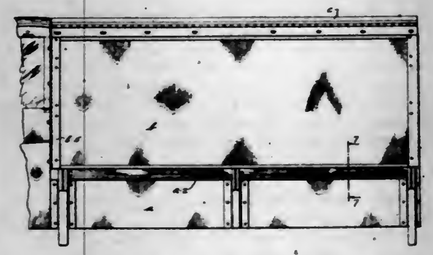
4. The purification of propionates by bacterial action of *Bacterium alcaligenes* on salts of fermentable organic acids.

1,450,393. WASHING MACHINE. FRANK SIMONYE, New York, N. Y. Filed Sept. 10, 1921. Serial No. 499,800. 2 Claims. (Cl. 68—22.)



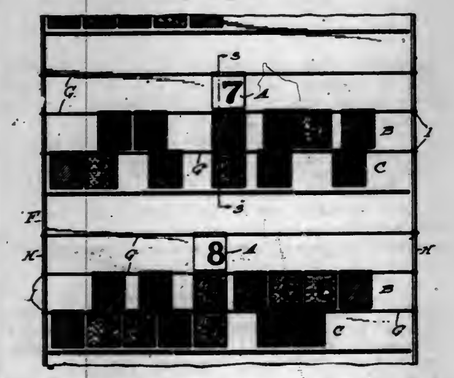
1. In a clothes washing machine, a pair of rotary brushes, a series of rollers adapted to feed the clothes between said brushes, a pair of brackets adapted to be fixed upon a wash-tub, a frame supporting said rollers and brushes, and means pivoting said frame to said brackets.

1,450,394. PANEL ADJUSTMENT FOR INCLOSED MOTOR VEHICLES. HORACE T. THOMAS, Lansing, Mich. Filed Feb. 25, 1921. Serial No. 447,812. 2 Claims. (Cl. 296—28.)



1. A panel having a strip of metal extending along its vertical edge, one-half of said strip being bent inward and secured and the other half being bent inward and then outward at right angles, the latter part being secured in place.

1,450,395. EDUCATIONAL APPLIANCE. NELLIE YORK TROIDL, Niagara Falls, N. Y. Filed Oct. 25, 1922. Serial No. 596,865. 7 Claims. (Cl. 35—2.)



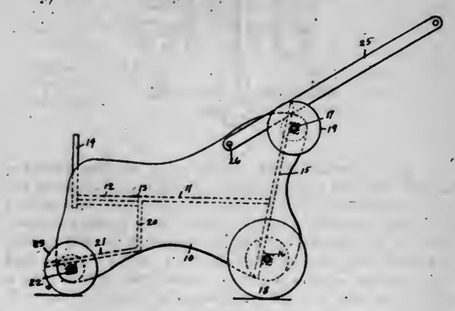
1. In an educational device, the combination of a support having thereon a plurality of sets of movable members, the members comprising a set bearing numerals differing one from another and presenting different appearances, each member of one set having an appearance similar to the appearance of one of the members of each of the other sets, whereby the members of similar appearance in different sets may be readily grouped together, and a master member bearing a number which when grouped with members of like appearance from the several sets completes a problem.

1,450,396. PROTECTOR FOR SHOES. EPHRAIM VIERTELS, New York, N. Y. Filed July 30, 1921. Serial No. 488,590. 1 Claim. (Cl. 36—72.)



A toe protector made of bendable metal comprising a bottom portion having a substantially vertical flange portion, and a turned-over ledge portion, the bottom of said protector and the said flange both having slots extending to said flange portion, whereby the said protector can have its size changed by merely bending the said flange.

1,450,397. CHILD'S VEHICLE. LEONA M. WEBER, now by decree of divorce LEONA M. CASE, Portland, Oreg. Filed Jan. 16, 1922. Serial No. 529,801. 2 Claims. (Cl. 280—47.)



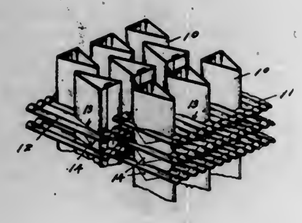
1. In combination, a vehicle having two side frames, a floor between said side frames, a foot board at one end of said floor, a pair of wheels attached to said side frames under said foot board, a head board at the opposite end of said floor, and two pairs of wheels attached to said side frames on the outer side of said head board.

1,450,398. PEN. ARTHUR WINTER, Jersey City, N. J., assignor of one-half to Frank H. La Pierre. Filed Feb. 24, 1919. Serial No. 278,562. Renewed Feb. 23, 1923. 3 Claims. (Cl. 120—42.)

3. In a pen, a fluid chamber, a plug for one end thereof provided with a duct therethrough, an ink chamber closed at one end thereof and rotatably secured to said plug, and provided with a port through the closed end thereof, said port and duct normally out of communication with each other, and so positioned relative to each other, that when said ink chamber is rotated, said duct and port register with each other to establish communication between said chambers.



1,450,399. RADIATOR. MEINHARD WITTE, St. Paul, Minn. Filed Oct. 11, 1920. Serial No. 416,083. 3 Claims. (Cl. 257—129.)

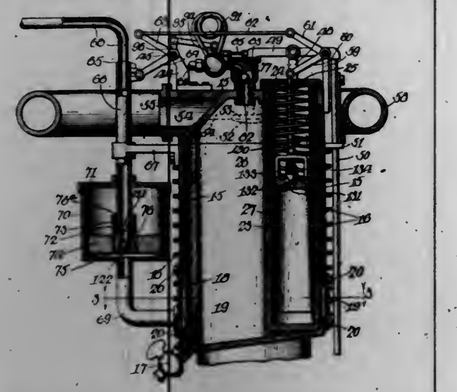


1. An automobile radiator comprising upper and lower tanks and staggered rows of tubes connecting the said tanks, one row of tubes having forwardly converging flat surfaces and the adjacent row of tubes having rearwardly converging flat surfaces, said converging surfaces of the tubes of the one row extending into the diverging spaces between the tubes of the other row, the opposing interlapped surfaces of the two rows of tubes being in parallel arrangement and affording air passages therebetween.

1,450,400. INTERNAL-COMBUSTION ENGINE. AUGUST L. WOLFF, Chicago, Ill. Filed Apr. 21, 1917. Serial No. 163,704. 34 Claims. (Cl. 123—122.)

1. An internal combustion engine including in combination a cylinder, a source of liquid fuel supply, a casing around the cylinder in communication with the cylinder and the source of fuel supply, a float and a valve controlling the fuel level in the casing, a valve controlling the

quantity of fuel admitted to the cylinder from the casing and a thermostat actuated by the heat of the cylinder



regulating the valve, to regulate the quantity of fuel admitted into the cylinder from the casing in proportion to the temperature variation of the cylinder.

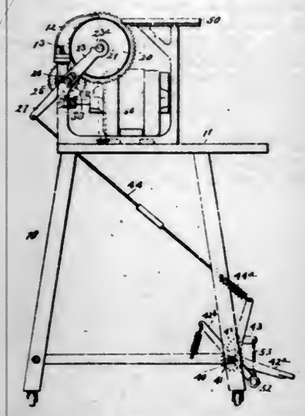
1,450,401. ANIMAL POKE FOR RESTRAINING STOCK. EDWIN W. WOOD, Lockridge, Okla. Filed Dec. 22, 1922. Serial No. 608,553. 5 Claims. (Cl. 119—137.)



4. An animal poke as described comprising a plurality of longitudinally arranged members similarly formed, composed of wire or other suitable material the ends forming hooks blunt at the beaks, bent outwardly and upwardly, and oppositely each other, said members bent so as to form a link intermediate their ends with two strands of wire side by side at the top and a single strand at the base of said link, the links of said members fitted into each other so that the said two strands fit into the single strand of the link immediately above it, and the two stems with the hooks thereon are depended at right angles with the two stems and hooks immediately above.

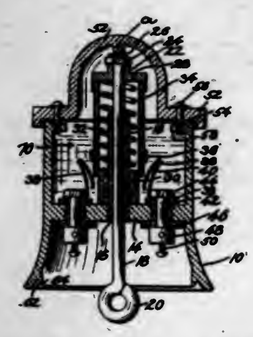
1,450,402. IRONING MACHINE. WILLIAM G. YATES, Cleveland, and GEORGE C. FATSCHER, Lakewood, Ohio, assignors, by direct and mesne assignments, to Barton R. Deming, Cleveland, Ohio. Filed May 9, 1921. Serial No. 468,069. 15 Claims. (Cl. 68—9.)

1. In an ironing machine, the combination of an ironing shoe, a rotatable ironing drum, a rocking frame having arms between which the drum lies and in which it is ro-



tatably mounted, one of said arms being movable out of supporting engagement with the drum.

1,450,403. OIL CIRCUIT CLOSER. CHARLES A. YONT, Denver, Colo., assignor to The Flint Electric and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Oct. 13, 1919. Serial No. 330,353. 2 Claims. (Cl. 200—150.)



1. An oil circuit closer comprising a housing having a bottom wall and containing oil, a contact submerged in the oil, a vertically disposed sleeve threaded into said bottom wall and extending above the oil level, a spindle reciprocable in said sleeve, a member connected to said spindle and depending around said sleeve, a spring around said sleeve within said member to elevate the spindle, and a contact on said member to engage the submerged contact.

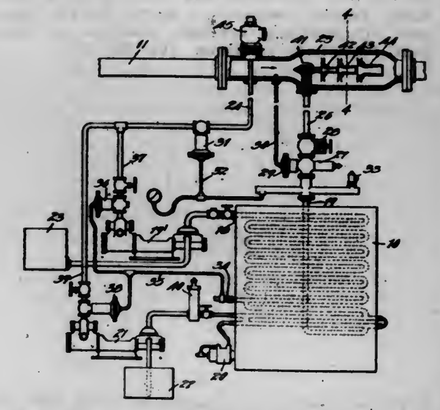
1,450,404. CONCRETE STAIR BLOCK. ANTON ANDERSON, Port Washington, Wis. Filed Sept. 16, 1921. Serial No. 501,070. 1 Claim. (Cl. 72—96.)



A concrete stairway consisting of separately formed stair blocks, each having an arched central portion to

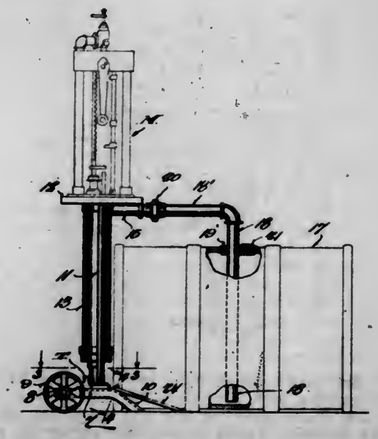
provide an opening in its face, downwardly extending sides provided with recesses in their face to receive the adjacent block, and a pair of longitudinal supporting members positioned under the downwardly extending sides and having nesting engagement therewith, whereby said blocks and supports are held against relative lateral movement.

1,450,405. METHOD OF AND MEANS FOR THE PRODUCTION AND USE OF STEAM. ROBERT W. BARTON, Chicago, Ill. Filed Dec. 11, 1916, Serial No. 136,257. Renewed Mar. 30, 1922. Serial No. 548,149. 6 Claims. (Cl. 60—39.)



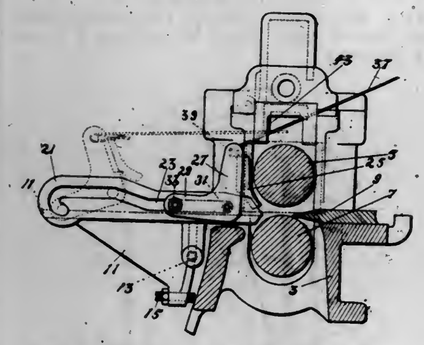
1. The herein described method of combining and mixing saturated steam and steam of high temperature and high pressure which consists in feeding water to a generator and producing high temperature and high pressure steam, causing saturated steam to flow through a conduit, injecting the generated steam into the stream of saturated steam, and controlling the pressure of the generated steam relative to the pressure of the saturated steam.

1,450,406. PORTABLE LIQUID PUMP FOR OIL CONTAINERS. EDGAR A. BIENENSTOK, Milwaukee, Wis., assignor to Milwaukee Tank Works, Milwaukee, Wis. Filed May 2, 1922. Serial No. 557,869. 4 Claims. (Cl. 103—218.)



1. A portable pump for cylindrical containers comprising a portable frame, adjustable members carried by the frame for preventing relative movement of the container, a pump mechanism carried on the frame, and means for operably connecting the pump with the container.

1,450,407. SAFETY DEVICE. CHARLES M. BRADFORD, Boston, and DARIUS W. BUNKER, Brookline, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 8, 1919. Serial No. 275,846. 11 Claims. (Cl. 69—13.)

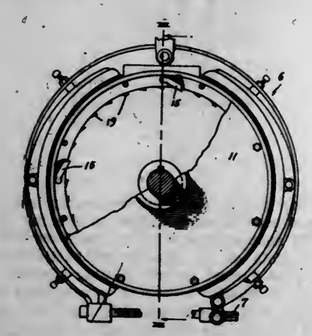


1. The combination with mechanism to which pieces of work are presented by an operator, of a table upon which the pieces are placed and over which they are presented, of a stationary finger guard located in front of the mechanism and spaced from the table to permit the work to pass between the guard and the table, and means whereby the space between the guard and the table may be increased by adjusting the guard over the table in a direction away from the mechanism.

1,450,408. ART OF PRESERVING APPLES. CHARLES BROOKS, Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Filed June 19, 1922. Serial No. 569,383. 1 Claim. (Cl. 99—8.) (Filed under the Act of Mar. 3, 1883, 22 Stat. L., 625.)

A method of treating apples to prevent apple scald which consists in applying a thin coating of a mineral oil, beeswax, paraffin mixture to the apples.

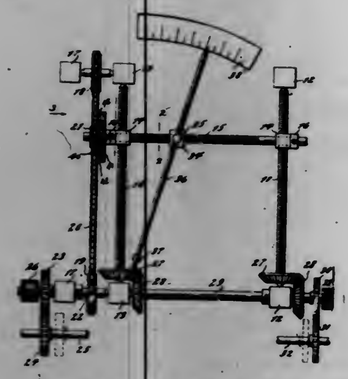
1,450,409. REVERSE-MOVEMENT CONTROL FOR DRIVING AND DRIVEN ELEMENTS. CHARLES PAUL CIRAC, Fallon, Nev. Filed July 19, 1921. Serial No. 485,807. 6 Claims. (Cl. 188—30.)



1. In a reverse movement control for driving or driven elements, a drum mounted with freedom of rotation on said element, a disc housed within the drum and mounted to rotate with said element, means automatically con-

necting the disc in driving relation with the drum upon rotation in one direction, and means for arresting the rotation of the drum in both directions and through it the disc in a reverse direction, said automatic connecting means comprising a plurality of locking dogs pivotally mounted within the drum, notches on the periphery of the disc, means for automatically urging the locking dogs in said notches when the disc is rotated in one direction, and means capable of urging the dogs out of said notches when the disc is rotated in the opposite direction.

1,450,410. INDICATOR. DAVID C. COX, Pittsfield, Mass. Filed Dec. 20, 1921. Serial No. 523,623. 5 Claims. (Cl. 235—61.)



2. In a device of the class described, a cross screw, a nut thereon, supports for said cross screw at either end thereof and arranged to permit it to turn and to prevent longitudinal motion thereof, clock-actuated mechanism to move said supports in unison continuously in a direction at right-angles to the axis of the cross screw and unit-measuring mechanism connected to the cross screw and arranged to turn it in accordance with the number of units measured.

1,450,411. VEHICLE THEFT-PREVENTING DEVICE. EARNEST V. COY, Excelsior Springs, Mo. Filed Aug. 2, 1922. Serial No. 579,100. 2 Claims. (Cl. 116—33.)



1. A device of the kind described comprising a body member, said body member having an opening extending through said member, means to lock said member to the exhaust manifold of an internal combustion engine, a shaft controlled damper in said opening adapted to close said opening, a whistle connected to said body member, the opening in said whistle extending into the body member opening between the damper and the opening into the exhaust manifold, a piston in said whistle, a connection between said piston and said shaft controlled damper and means to control said damper and said whistle piston to place said device in operative and inoperative position, said means comprising a lock.

1,450,412. PROCESS OF MAKING A COLORED PHOTOGRAPHIC IMAGE. LEON F. DOUGLASS, San Rafael, Calif. Filed Oct. 16, 1919. Serial No. 331,068. 1 Claim. (Cl. 95—88.)

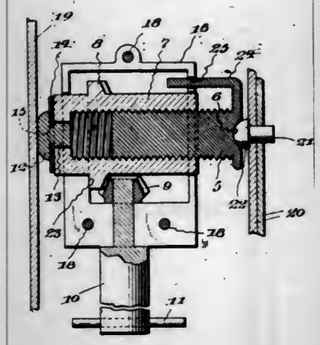
The process of making a colored photographic image from a black silver image, which consists in replacing the black silver image with an iron blue toned image, treating said converted image with a basic dye, and subsequently causing said image to mordant basic dyes by treating it with an alkaline solution.

1,450,413. VACUUM ELECTRIC DISCHARGE DEVICE. HERBERT W. EDMUNDSON and WILLIAM T. MUNRO, Rugby, England, assignors to General Electric Company, a Corporation of New York. Filed Mar. 10, 1919. Serial No. 281,649. 3 Claims. (Cl. 250—27.)



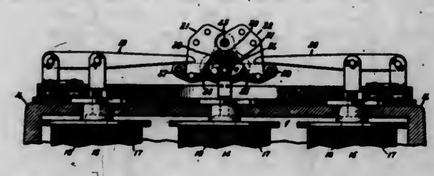
1. The combination in an apparatus of the class described of an evacuated receptacle containing a cathode adapted to be heated to incandescence and an anode adapted to receive electrons from said cathode, leading-in conductors sealed into the walls of said receptacle for supplying current to said cathode and anode, and a shield interposed between said anode and the region where said leading-in conductors are sealed into the walls of the receptacle for intercepting heat radiated from the anode said shield being out of contact with the walls of the receptacle.

1,450,414. RIVET HOLDER. WILLIAM E. FERGUSON, Louisville, Ky. Filed Jan. 30, 1922. Serial No. 532,772. 3 Claims. (Cl. 78—53.5.)



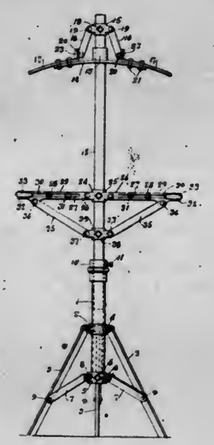
1. A rivet holder comprising a traveling screw having a rivet-engaging part, a non-traveling nut carrying the screw, said screw projecting from one end of the nut, a swiveled foot-piece carried by the other end of the nut, means for operating the nut, and a support for the nut and its operating means.

1,450,415. PROTECTIVE DEVICE. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1917. Serial No. 183,006. 13 Claims. (Cl. 175—294.)



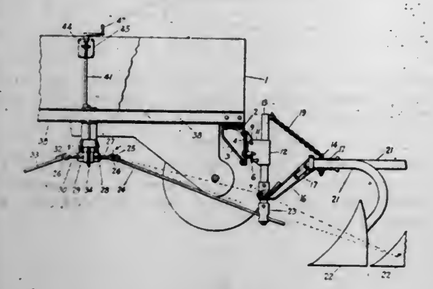
1. The combination with an electric switch and a polyphase circuit controlled thereby, of a device for controlling said switch comprising independent elements responsive to load conditions in each phase, and means for holding side elements in equilibrium under balanced load conditions but operative to permit one or more of said elements automatically to open said switch on a condition of unbalance arising between any two of said phases beyond a predetermined amount.

1,450,416. GARMENT-FORM SUPPORTER. THOMAS C. FRESHOUR and BERT M. JENNINGS, Troy, Ohio. Filed Dec. 8, 1921. Serial No. 520,929. 3 Claims. (Cl. 211—24.)



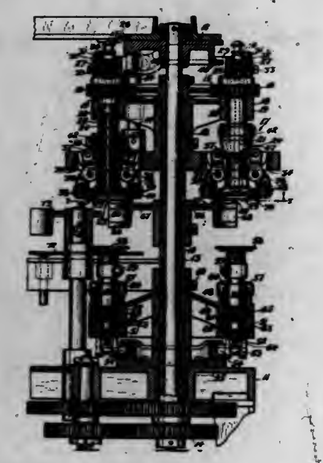
1. In a garment form supporter, the combination with a post having a suitable base; of a shoulder rest mounted on the post and including a fixed collar, a lateral plate formed integrally with the collar and extending in opposite directions therefrom at each end, shoulder pieces slidably mounted on the plate at each end thereof and having pin and slot connection therewith, a slidable sleeve mounted on said post, links each having one end connected to the slidable sleeve and the other end connected to a respective shoulder piece; and a hip rest comprising a pair of sleeves slidable on said post and movable independently of each other, radial arms projecting from one of said sleeves, slides each having pin and slot connection with a respective arm, braces each having one end pivoted to a respective slide and the other end pivoted to the remaining sleeve of said pair, hip rests mounted on the outer ends of said slides, and means to hold the several sleeves in adjusted position.

1,450,417. PLOW-DEPTH-ADJUSTING DEVICE. KENT S. GINGERICK, Urbana, Ohio, assignor to Rial T. Parrish, Dayton, Ohio. Filed May 1, 1922. Serial No. 557,525. 4 Claims. (Cl. 97—98.)



1. In a tractor, the combination with a plow, of a supporting member having an annular portion, pivotally secured to said tractor, a column free to move through the annular portion of said supporting member, means for securing said plow to the column, and horizontal means attached to said column for rocking it and moving it vertically through the supporting member to tilt the plow a desired degree.

1,450,418. SEAMING HEAD FOR CAN MACHINERY. HENRY L. GUENTHER, Los Angeles, Calif. Filed Dec. 21, 1921. Serial No. 523,823. 10 Claims. (Cl. 113—24.)



10. A seaming head for can capping machines, comprising a can support, a rotary centering member adapted to fit over the mouth of a can and cap, seaming rollers adapted to form a seam between the cap and the can body, and a stripping plate movable vertically independently of the centering member.

1,450,419. DENTAL DEVICE FOR SPREADING TISSUES. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Sept. 25, 1920. Serial No. 412,704. 3 Claims. (Cl. 128—17.)

1. A dental device for spreading tissues comprising a short tubular member provided with a screw-threaded

opening at one end, a screw fitting the threads of said opening, said tubular member being provided with two



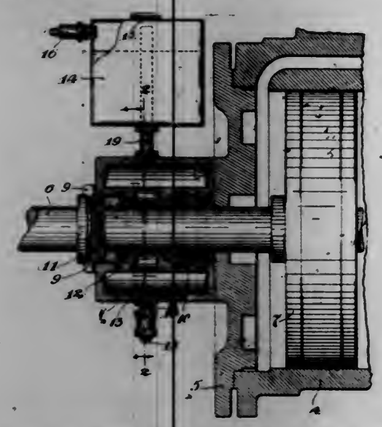
diametrically opposite slots betwen its ends, and two arms normally stressed apart extending through said slots and having pointed front ends.

1,450,420. SENSITIZED-FILM HOLDER FOR X-RAY PHOTOGRAPHY. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Apr. 21, 1921. Serial No. 463,420. 3 Claims. (Cl. 250—34.)



1. A sensitized film holder for X-ray photography comprising a block having a resilient surface for engagement by the teeth of a patient, a clamping member, and co-operating screw-threaded members carried by said block and clamping member whereby they may be forced toward each other to clamp the film between them.

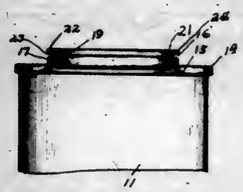
1,450,421. STUFFING BOX AND THE LIKE. EDWARD W. KAVANAUGH and MICHAEL J. KAVANAUGH, Minneapolis, Minn. Filed May 15, 1919. Serial No. 297,313. 3 Claims. (Cl. 286—19.)



1. The combination with a cylinder and a piston, of a stuffing box having inner and outer packings through which the piston rod works, a chamber between said packing open to the piston rod having communication with said cylinder only by leakage through the inner packing and means for keeping said chamber constantly full of water and for condensing steam which escapes into said chamber from said cylinder.

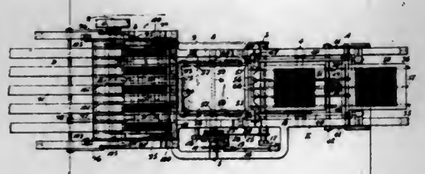
1,450,422. FRICTION-TOP CAN. GEORGE A. LEIGHTON, Roslindale, Mass., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 19, 1920. Serial No. 374,795. 1 Claim. (Cl. 220—42.)

A friction-top can, comprising a body provided at its top with an inwardly extending annulus the outer part of which is united with the upper part of the body, the inner part of said annulus being bent up and formed with an opening and with a friction seat wall surrounding said opening, and a cover formed with a smaller and inner cylindrical part having a friction seat wall adapted to fit the said seat wall of the annulus and form a tight closure therewith, and formed above said smaller cylindrical part with a larger and outer cylin-



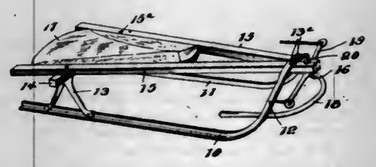
drical part, between which cylindrical parts is a shoulder adapted to engage on top of said annulus when the can is fully closed and thereby limit the insertion of the friction seat wall of the cover within the friction seat wall of the annulus, the cover having an outwardly extending flange which is spaced above the bent-up part of said annulus by means of said shoulder, the said outer cylindrical part being of less diameter than said bent-up part and said flange.

1,450,423. SUGAR-FEEDING MACHINE. CHARLES C. REESE, San Francisco, JOSEPH T. BUZZO, Oakland, and ROBERT S. WOODFORD, Crockett, Calif. Filed Oct. 27, 1920. Serial No. 419,915. 42 Claims. (Cl. 214—1.)



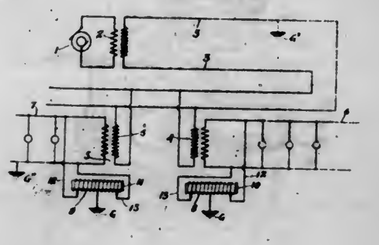
1. In a machine of the character described a sugar receiving frame, a turning frame having upper and lower sugar holding means, means for transferring sugar from the receiving frame to the lower sugar holding means of the turning frame, and means for imparting a turning movement to the turning frame to turn the sugar.

1,450,424. SLED. CHARLES S. BEEBE, Tomahawk, Wis. Filed July 26, 1921. Serial No. 487,657. 6 Claims. (Cl. 280—21.)



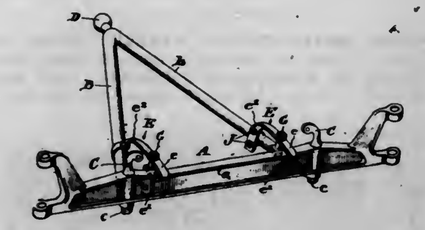
1. In a sled, runners formed with an integral arched member extending upwardly therefrom with the sides of said member converged inwardly and extending across the forward ends of said runners, a pair of longitudinal side beams extending from the rear of the sled and converging forwardly a distance beyond said arched member, said side beams supported by and secured to said arched member, and steering means detachably mounted on said side beams forwardly of said arched member.

1,450,425. PROTECTION OF ALTERNATING-CURRENT-DISTRIBUTING CIRCUITS. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,322. 3 Claims. (Cl. 175—294.)



1. In an alternating current system the combination with a high tension source, of a low tension two-wire distributing circuit, means for transforming energy of the high tension source to the low tension of the distributing circuit, a reactance coil connected across the wires of said distributing circuit, and a ground connection from approximately the neutral point of said reactance coil protecting said low tension circuit against the voltage of the high tension circuit.

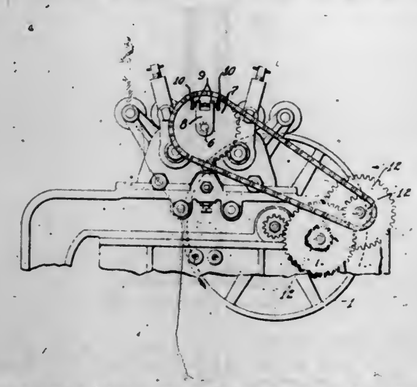
1,450,426. BRACE FOR RADIUS RODS. JAMES W. BOND, Columbia, S. C., assignor of one-half to William J. Taylor, Columbia, S. C. Filed June 7, 1922. Serial No. 566,635. 3 Claims. (Cl. 267—66.)



1. The combination with an axle, of converging radius rods, means for connecting the ends of the rods with the axle, and braces for said radius rods, each brace comprising a front portion clamped to the upper side of the axle inside of the point of connection of the radius rod therewith and a portion extending rearwardly and downwardly to the associated radius rod, and means for clamping said portion to the radius rod.

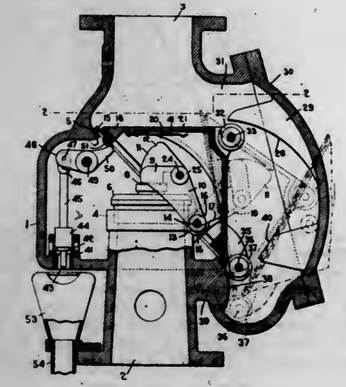
1,450,427. RECORDING MECHANISM AND DISSEMINATION METHOD. WILLIAM H. CANNARD and GLENN A. SHAFFER, Green Bay, Wis., assignors to said Cannard. Filed Feb. 24, 1922. Serial No. 538,992. 20 Claims. (Cl. 93—93.)

1. A recording instrumentality including a shaft; a sleeve loosely mounted thereon; a resilient connection between the sleeve and shaft; a marker carried by the sleeve; a cam actuated by the shaft; an arm on the



sleeve; and a ratchet mechanism movable into and out of engagement with the arm on the sleeve by the cam.

1,450,428. DRY-PIPE VALVE. EZRA E. CLARK, Newtonville, Mass. Filed June 29, 1921. Serial No. 481,258. 16 Claims. (Cl. 169—22.)



1. A dry pipe valve comprising a casing having a water valve seat and an air valve seat arranged in angular relation to each other, a water valve and an air valve mounted to swing upon opening about a point substantially equidistant from the axes of both of said valves when in seated position so that equal forces acting along the axes of the water valve and the air valve will be balanced.

1,450,429. COMBINED CANDLESTICK AND FLOWER VASE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 26, 1922. Serial No. 556,627. 5 Claims. (Cl. 67—23.)

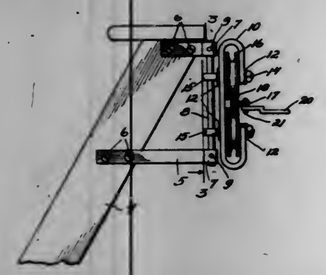
1. As a new article of manufacture, a combined candlestick and vase comprising a base made of sheet metal, a hollow post open at both ends and carried by the base, and a cup frictionally receivable by and selectively in-

sertible in the post at either end thereof, the cup when inserted at the top end of the post functioning as a



candle holder and when reversely inserted at the bottom end of the post serving as a bottom closure therefor and adapted for supporting a flower or flower holder.

1,450,430. SAFETY HEAD AND TRACK FOR TRAVELING LADDERS. FRED W. CORNELL, St. Joseph, Mo. Filed Aug. 7, 1920. Serial No. 401,905. 1 Claim. (Cl. 228—53.)



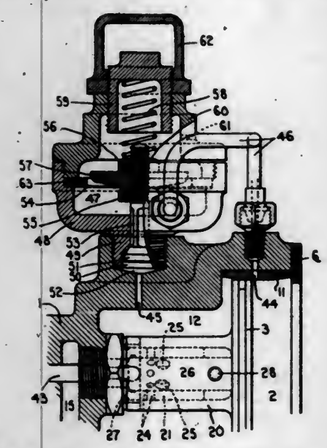
A traveling ladder and track structure comprising a track member provided with upwardly and downwardly projecting track flanges, an inclined ladder provided with a pair of vertical posts fixedly secured to the upper end thereof, a pair of connected bearing frames provided with eyes slidingly engaging said posts, and a pair of grooved rollers journaled in each of said frames in rolling engagement with both of said track flanges.

1,450,431. LANDING INDICATOR FOR AIRCRAFT. ROGER COURTOIS-SUFFIT, Paris, France. Filed Dec. 20, 1918. Serial No. 267,634. 7 Claims. (Cl. 33—1.)



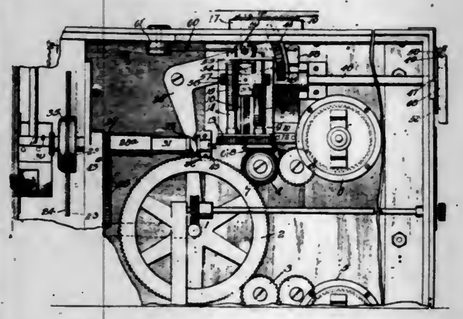
1. The combination, with an air craft of an indicating apparatus, comprising a pair of funnels located at vertically-spaced points on the air craft, and a receiving device with which the funnels are connected and including an indicator adapted to automatically measure the difference of the aero-dynamic pressures to which the funnels are subjected.

1,450,432. FLUID-PRESSURE BRAKING APPARATUS. JAMES WILLIAM CROSS, Surbiton, England. Filed Sept. 18, 1919. Serial No. 324,334. 7 Claims. (Cl. 303—65.)



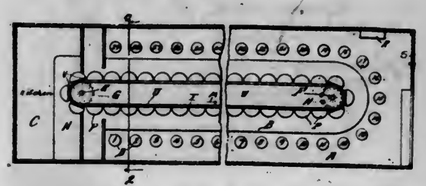
1. In a fluid pressure brake, the combination, with a triple valve provided with passages for connecting it with a train pipe, a brake cylinder and an auxiliary reservoir, said triple valve having also a cylinder and a piston; of a stationary tubular member arranged in line with the said piston and provided with a lateral air passage and having a valve seat at one end which comunicates with the brake cylinder passage, a tubular stem secured to the said piston and slidable over the tubular member and also provided with a lateral air passage, and a cylindrical plug valve also slidable with the said piston, said plug valve working in the said tubular member and closing its valve seat, the brake cylinder passage being placed in communication with the auxiliary reservoir passage when the piston and the parts connected to it are slid in one direction.

1,450,433. MOTION-PICTURE CAMERA. ERNEST W. DAVIS, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 24, 1919. Serial No. 299,528. 5 Claims. (Cl. 88—19.3.)



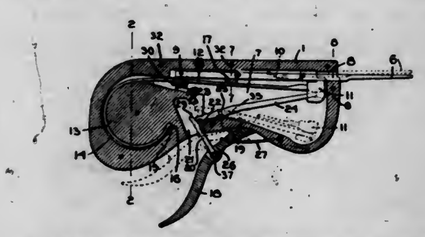
1. In a motion picture camera, the combination with a shutter having an adjustable exposure opening, of mechanism associated with the said shutter and the operating mechanism of the camera for automatically gradually opening or closing the exposure opening of the shutter while operating the camera, means manually operable independently of said automatic means for adjusting said exposure opening, manually operable means controlling the aforesaid automatic mechanism to throw the same into or out of operation, and means associated with said controlling means and said manually operable adjusting means for rendering the latter inoperative when the automatic means are thrown in and vice versa.

1,450,434. SERVING APPARATUS. OTTO H. DOERFLER, Omaha, Nebr. Filed Dec. 5, 1922. Serial No. 604,088. 1 Claim. (Cl. 186—1.)



The combination with a U shaped counter, an endless sprocket chain conveyor horizontally disposed and between the opposite sides of the counter, shelves horizontally disposed and carried by the sprocket chain, said shelves being centrally secured to one of the links of the sprocket chain centrally thereof and springs interposed between the outer ends of the shelves and the adjacent links of the sprocket chain, and forming means for guiding and bracing the shelves as they pass over the sprockets.

1,450,435. IMPACT-PRODUCING IMPLEMENT. ELI EPSTEIN, Dorchester, Mass., assignor to Louis M. Starr, New York, N. Y. Filed Feb. 4, 1922. Serial No. 534,224. 9 Claims. (Cl. 78—25.)



1. In an impact-producing implement, the combination with a body or frame, of an impact-delivering member pivoted thereto, a relatively light spring acting against said member in opposition to its impact-delivering movement, an impact-producing member, spring propelling means associated with said impact-producing member, a pivoted member, and means actuated by said pivoted member to place the spring propelling means under tension and then release it thereby permitting the impact-producing member to strike the impact delivering member a hammer-like blow.

1,450,436. PENCIL. JOHN ROBERT FITTON, Woonsocket, R. I. Filed Apr. 4, 1921. Serial No. 458,423. 6 Claims. (Cl. 120—18.)

6. In a pencil, a tubular barrel open at its rearward end and tapered at its forward end to a relatively small central opening, an inner tubular member of less diameter than the inner diameter of the barrel and disposed within the latter concentric therewith, said inner tubular member being releasably connected at its forward end to the barrel, and being formed with a slot into its walls extending longitudinally thereof from a point intermediate its length to a point adjacent to its forward end, a plunger disposed within the inner tubular member and arranged with a portion thereof extending through the slot exteriorly of the inner tubular member, said protruding portion being provided with segmental threads, and a sleeve disposed between the inner tubular member



and the outer barrel and threaded interiorly for a part of its length for engagement with the threaded portion of the plunger.

1,450,437. BLOOMERS. WALTER A. GOLDSMITH, Cleveland, Ohio. Filed Apr. 20, 1922. Serial No. 555,715. 4 Claims. (Cl. 2—122.)

3. A closed bloomer-type garment formed of two portions of roughly hexagonal shape, each portion having its two lower sides sewed together to form a garment leg, the two upper sides being sewed together at the front and back downwardly from the waist line, and a diamond shaped crotch insert, comprising two layers of fabric, the upper layer being of undyed sanitary cloth, said insert being sewed between the two portions with its obtuse angled ends at the points of the leg seams, and with its acute angled ends extending upwardly at the front and rear, the rear triangular portion of the crotch piece being longer than the front triangular portion, the crotch piece adding fullness through the crotch and seat.

1,450,438. REVERSIBLE HANDLE SOCKET. DARWIN GILBERT HADSELL, Kansas City, Mo. Filed July 28, 1921. Serial No. 488,252. 1 Claim. (Cl. 15—146.)

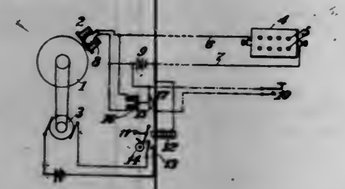
A brush comprising a head embodying a flat-faced bristle carrying member having a recess formed in its upper face midway between the front and rear vertical sides thereof, a socket member in the form of a single casting, said member embodying right angularly disposed extensions to bear against the top and either one of the vertical sides of the aforesaid member, that extension bearing against the top face of the latter being equipped adjacent its free end with a lateral projection received in the aforesaid recess, the remaining extension being formed

with an aperture, the socket portion of the casting being equipped with internal stops against which the inner end of the handle abuts, and a retaining bolt passing



through the aforesaid bristle carrying member and through the apertures in the last named extension, and a binding nut on the free threaded end of said bolt.

1,450,439. RECORDING PHONOGRAPH. RUDOLF HASE, Berlin, Germany, assignor, by mesne assignments, to Naamlooze Vennootschap Finanzieele Mattschapij "Driebergen," Amsterdam, Netherlands, a Company of Netherlands. Filed Feb. 18, 1921. Serial No. 446,202. 2 Claims. (Cl. 179—100.1.)



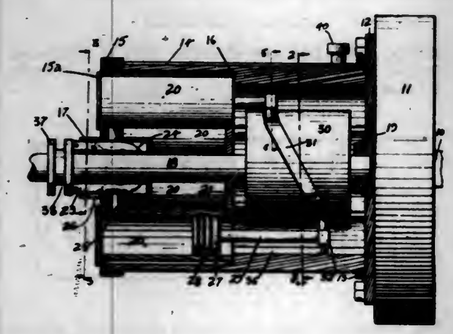
1. A sound recording apparatus comprising in combination a record surface, a motor driving said surface, electrical means including a switch for putting said motor into and out of action, means for delaying the opening of said switch, an electromagnet closing said switch, a source of power connected with said electromagnet, a hand operated switch in the circuit of said electromagnet, a contact in parallel with said hand operated switch adapted to be closed by sound vibration, and means for receiving sounds and recording them upon said record surface.

1,450,440. RATCHET DEVICE FOR AUGERS. PEARL HUDSON, Burlington, Iowa. Filed Feb. 25, 1922. Serial No. 539,219. 5 Claims. (Cl. 74—54.)



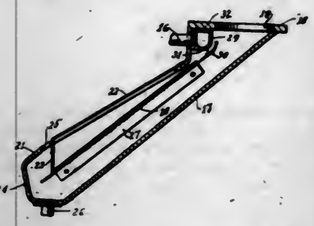
1. The combination with a member to be rotated provided with a plurality of upper and lower radial lugs, of a casing swivelly connected to the upper extremity of said member and provided with means for rotating the same, a pair of diametrically opposite ratchet dogs pivotally mounted in said casing, each having at its ends forks or arms, either set adapted to cooperate with the upper and lower lugs of said member, to rotate the same, tension means to hold one end of each dog normally depressed whereby the extremities of the arms or forks may cooperate with the upper and lower lugs, and means for urging pressure on the opposite ends of the ratchet dogs to tilt the same to permit the other set of forks or arms to cooperate with the lugs.

1,450,441. PNEUMATIC CLUTCH. CHARLES E. G. JOHNSON, Des Moines, Iowa. Filed Jan. 2, 1920. Serial No. 349,112. 1 Claim. (Cl. 192—59.)



In a device of the class described; a shaft; a fly wheel thereon; a flanged member formed on said fly wheel and provided with screw-threads; a cylinder having a screw-threaded end screwed into said flange; a screw-threaded cap for the opposite end of said cylinder; a plurality of cylinders mounted in said first cylinder in a series in a circle; a second shaft aligned with said first shaft and extending through said first cylinder; a member on said second shaft having a cam slot in its outer surface; pistons in said second described cylinders; stems on said pistons; and members on said stems received in said cam slot; a valve casing rotatably mounted on said second shaft; valve controlled passages in said valve casing communicating with the respective cylinders; and a valve device for controlling the various valve openings.

1,450,442. COOLING SYSTEM FOR MOTOR VEHICLES. HENRY D. JONES, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 12, 1921. Serial No. 507,277. 2 Claims. (Cl. 261—113.)



1. A water cooling apparatus for internal combustion engines including a downwardly inclined casing having a discharge opening at its bottom and an air inlet opening in its top wall adjacent the lower end of the casing, a water receiving vessel mounted in the upper end of the casing and having discharge openings, a screen extending upward through the casing at an angle to the horizontal and having its upper end disposed below the discharge openings of said vessel, means for drawing air upward through the casing and beneath the screen, and means for preventing air passing upward through the casing above the screen.

1,450,443. GATE LATCH. MICHAEL H. JUDGE, Greeley, Nebr. Filed Apr. 7, 1921. Serial No. 459,277. 3 Claims. (Cl. 292—40.)

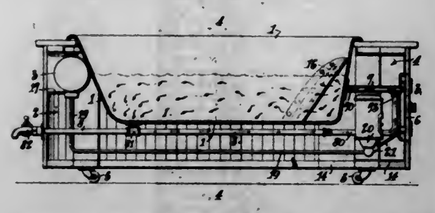
1. The combination with a swinging gate, of a latch for said gate, said latch comprising a plate formed from overlapped vertical sections adjustable in relation to each

other, apertured lugs carried by said plate sections, vertically disposed independent spaced bars slidably mounted in the apertures of said lugs, said bars being provided with enlargements normally engaging the upper face of the lower lug, recesses in the adjacent inner faces of the enlargements, the outer sides of said enlargements being bevelled outwardly and upwardly, the outer portion of the lower lug being bevelled downwardly and outwardly, a projection carried by the gate and adapted



to engage said bevelled surfaces and move one of the vertically movable bars upwardly and pass into the recesses in the adjacent inner faces of the enlargement according to the direction of movement of the gate, lugs carried by the vertically slidable bars and a lever pivoted to the free end of the gate and having its forward end disposed beneath the lugs of the bars and forming means for simultaneously raising said bars.

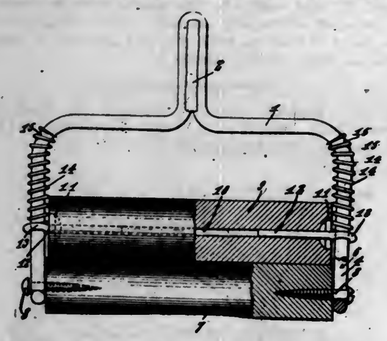
1,450,444. PORTABLE BATHTUB WITH HEATING APPLIANCE. MICHAEL HENRY MCGUIRE, Clifford, Mich., assignor of one-half to Clayton E. Frederickson, St. Joseph, Mich. Filed Aug. 30, 1922. Serial No. 585,245. 3 Claims. (Cl. 126—350.)



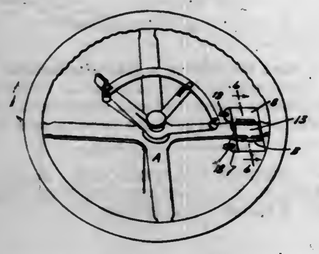
1. A portable bath tub comprising a tub body, an open bottom housing that surrounds the sides and ends of the said body, the said housing having a compartment at one end with means for supporting an oil reservoir, a compartment at the other end, oil burner devices located in the said other end, a feed pipe connecting the said burner devices and the oil reservoir, the burner devices including a control valve, the end of the housing adjacent the heater having an opening for providing access to the burner, a water heating receptacle cooperative with the heater and a pipe connection that joins the said receptacle and the bottom of the tub, the said receptacle haing an apertured end, and means for holding the said apertured end in communication with the inside of the rear end of the tub.

1,450,445. MOP. MABEL P. MCNAUGHTON and JOHN MCNAUGHTON, New York, N. Y. Filed July 15, 1921, Serial No. 485,023. Renewed Sept. 12, 1922. Serial No. 587,850. 8 Claims. (Cl. 15—119.)

1. A mop including a yoke having side arms, rollers mounted between the arms, bearing pins slidably and tiltably mounted on the arms and slidable within one of the rollers, and springs mounted on the arms and engaging the pins to hold the rollers normally pressed together yieldingly.



1,450,446. MEMORANDUM ATTACHMENT FOR AUTOMOBILES. HJALMER A. NELSON, Detroit, Minn. Filed June 21, 1920. Serial No. 390,433. 10 Claims. (Cl. 281—9.)



2. A memorandum attachment for automobiles comprising a casing provided with a cover having a sight opening, the bottom of the cover being raised through its entire width at its central portion to afford a table under the sight opening, and a clamp on the bottom of the table for securing the casing to one of the arms of a steering wheel, said table being arranged to support a recording sheet in the casing.

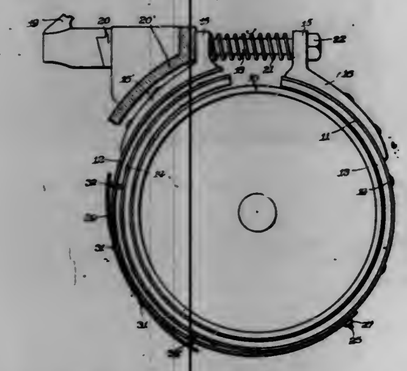
1,450,447. MILLING, DRILLING, AND GRINDING APPLIANCE FOR LATHES. LOUIS NICOLE, London, England. Filed Apr. 2, 1921. Serial No. 458,098. 4 Claims. (Cl. 90—17.)



1. A milling, drilling and grinding appliance for lathes comprising a vertical stem carried by a base plate adapted to be clamped to the slide rest of a lathe, a sleeve mounted so as to be angularly adjustable on said stem and slidable thereon, a spindle adapted to carry at its one end a rotating tool and having at its other end means for rotating it, a sleeve provided with bearings

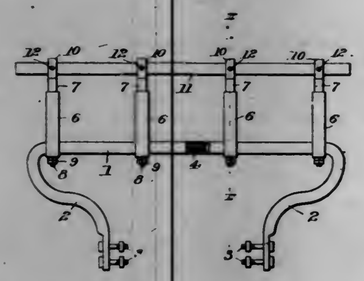
in which the spindle is free to rotate and adjustably attached to the sleeve on the stem, a slotted arm carried by and at right angles to the spindle bearing sleeve, a stud mounted adjustably on said slotted arm, and an index finger carried on said stud and adapted to engage a division plate on the spindle.

1,450,448. BRAKE BAND. WALLACE M. PARKISON, Brook, Ind. Filed Feb. 4, 1922. Serial No. 534,068. 17 Claims. (Cl. 188—249.)



5. In a band for braking a rotatable member, a main band, a supplemental band cooperating therewith, and cushioning means external of said supplemental band for transmitting a resilient pressure between said bands.

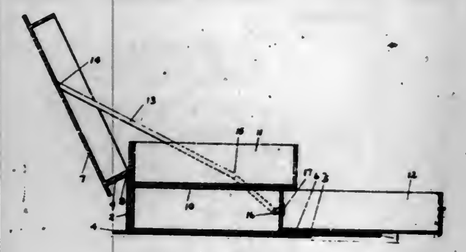
1,450,449. FENDER FOR VEHICLES. FRANK PELOSI, New York, N. Y. Filed Mar. 22, 1922. Serial No. 545,673. 3 Claims. (Cl. 293—55.)



3. In a vehicle fender, the combination with a bumper bar, of a plurality of cushioning members attached at their front ends to said bumper bar, said members having eyes at their rear ends, and a supporting bar arranged parallel to said bumper bar and having integral brackets at its ends for connection to a vehicle, said supporting bar being divided intermediate of its ends and detachably connected by a screw and socket connection for the purpose specified.

1,450,450. DISPLAY BOX. EDWARD WILLIAM POPPE, Kalamazoo, Mich., assignor to Kalamazoo Paper Box Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Oct. 31, 1921. Serial No. 511,614. 5 Claims. (Cl. 206—44.)

1. The combination of a box body comprising front, rear and end walls, a bottom projecting beyond the front wall, the front wall being hinged at its lower edge to collapse upon and be supported by the projecting bottom, said box having a horizontal partition providing a plurality of tray compartments, a cover hinged to the rear of the box body and provided with a flange engaging and supporting the front wall when the box is closed, trays, the bottom tray being slidable in the bottom tray compartment, a tape secured at its ends within the cover flanges, the end walls of said box each having spaced



guide holes therein, one of which is located adjacent the front thereof, the rear wall of the bottom tray having holes adjacent its ends, said tape being rove through said holes in said tray and end walls with the bight portion of the cord within the tray so as to equalize therein and so that when the cover is opened the front wall collapses upon the projecting bottom and the bottom tray is projected over said front wall.

1,450,451. DRAFT REGULATOR AND CHIMNEY CLEANER. DANIEL E. RABER, Perry, Iowa. Filed Sept. 12, 1922. Serial No. 587,663. 1 Claim. (Cl. 126—280.)

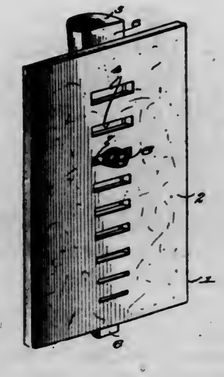


An improved draft regulator and chimney cleaner comprising a frame designed to be inserted in a chimney near the bottom thereof, said frame having upon its outer face a flange extending downwardly and outwardly from the chimney, a door pivoted to the frame about the flange and designed to rest by gravity against the flange to close the opening, and a deflector on the interior of the frame extending downwardly and inwardly to direct air passing through the door opening downwardly toward the bottom of the chimney, for the purposes stated.

1,450,452. SOLDERING BLOCK. SAMUEL EDWARD RANDALL, Junction City, Ark. Filed Mar. 21, 1922. Serial No. 545,623. 6 Claims. (Cl. 113—99.)

5. A device of the character described comprising a flat block having a series of spaced slots formed therethrough,

and a longitudinal retaining member having a flat side adapted to lie flatwise against the block and to be moved



axially transversely of the respective slots, as and for the purpose described.

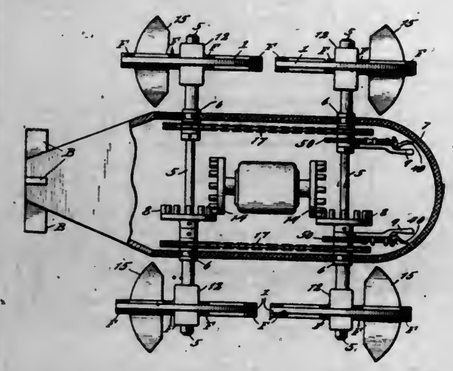
1,450,453. AUTOMOBILE CHAIN FASTENER AND TIGHTENER. HUGO RASCHE, Princeton, Iowa. Filed Apr. 15, 1022. Serial No. 553,243. 1 Claim. (Cl. 24—69.)



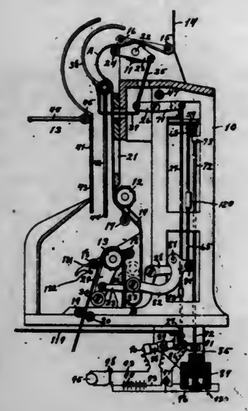
A device of the class described comprising pivotally connected main and auxiliary members which are foldable to lie side by side when the device is closed, said members being provided in their edges with oppositely extended notches which cooperate to form a retaining opening when the device is closed, a latch-shaft mounted to rock in the main member and of unequal transverse dimensions, and a connecting element carried by the shaft and constituting means for rocking the shaft, the auxiliary member being provided with a notch comprising a neck and a seat at the inner end of the neck, the seat being elongated in the direction of the length of the auxiliary member, the latch shaft entering the seat, by way of the neck, when said members are folded to closed position and when the connecting element is disposed at an angle to the main member, the latch-shaft engaging in the seat, to hold said members together, when the connecting element extends in a direction substantially parallel to the length of the device.

1,450,454. LEVER-CONTROLLED PADDLE-ACTION FLYING MACHINE. ALEXANDER B. RONEY, Chicago, Ill. Filed Dec. 8, 1921. Serial No. 521,013. 2 Claims. (Cl. 244—16.)

1. A feathering paddle wheel propeller comprising a frame mounted on a right angle drive shaft rotatably supported in an adjustable sleeve bearing aligned axles on said frame and carrying quartered paddles, gears mounted on said axles and on said sleeve bearing, said gears having a two-to-one-ratio respectively, and a lubricant casing integral with said frame and enclosing said gears.

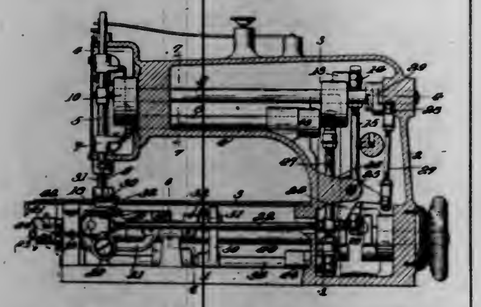


1,450,455. MOVING-PICTURE MACHINE. DELBERT O. SEAMAN, Des Moines, Iowa. Filed Aug. 6, 1920. Serial No. 401,575. 14 Claims. (Cl. 88—17.)



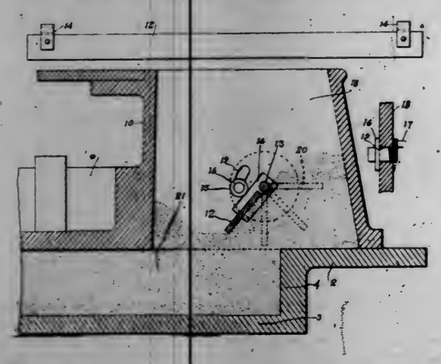
1. In a device of the character described, the combination of a moving picture machine having a light aperture and a mechanism for feeding a film past said aperture, a movable fire shutter adapted in one position to cover said aperture, a support for a source of light spaced from said machine, a movable douser plate mounted between said support and said light aperture, a member adapted to contact a normally taut portion of said film, a spring acting to hold said member in contact with the taut portion of the film and to carry it across the path of such portion when its tautness is released, mechanical means connected with said members for releasing and closing said fire shutter and also said douser plate when said member is spring-pressed through release of the tautness of said film, and electrical means set in motion by the operation of said mechanical means and supplementing the action of said mechanical means in the operation of closing said fire shutter and douser plate.

1,450,456. FEEDING MECHANISM FOR SEWING MACHINES. DUDLEY S. SEYMOUR, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1920. Serial No. 409,842. 4 Claims. (Cl. 112—213.)



4. A sewing machine including, in combination, a feed dog, a feed bar carrying said feed dog, a feed rocker to which said feed bar is pivoted, means for raising and lowering said feed dog, means for oscillating said feed rocker, a needle, a needle bar carrying said needle, a yoke in which said needle bar reciprocates, a looper, means for moving said looper into and out of the needle thread loop, a looper support on which said looper is pivoted, means for oscillating said looper support from said feed rocker and for oscillating said yoke from said feed rocker, whereby said needle is caused to move laterally while in the material to assist in feeding the material and whereby said looper is maintained in proper cooperative relation to the needle.

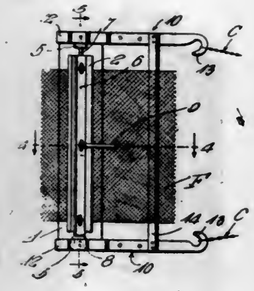
1,450,457. CAKE FORMER. ORLANDO SHEPPARD, Jr., Atlanta, Ga., assignor to Buckeye Iron & Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed May 2, 1921. Serial No. 466,754. 9 Claims. (Cl. 100—51.)



1. In a former, a charging box, a receptacle to be charged, means to move said charging box adjacent to said box to be charged, and means actuated with the charging box for packing the material so deposited.

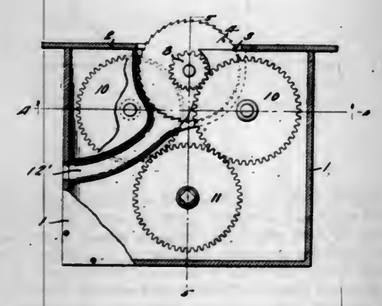
5. In a former, a charging box, a box to be charged, means for moving said charging box over said box, means in said charging box to uniformly pack and generally level the material deposited in the box by the charging box when traveling in one direction and to ride on the surface of the material so deposited when moving in the other direction, means to limit the movement of the packing and leveling means when the charging box is traveling in its initial direction, and means for adjusting said limiting means to a desired position.

1,450,458. WIRE STRETCHER. OSCAR SIMENSON, Locust, Iowa. Filed Mar. 6, 1922. Serial No. 541,351. 5 Claims. (Cl. 24—248.)



1. A wire stretcher comprising a clamp including a stationary member and a movable member, between which a wire fabric is adapted to be disposed and frictionally held throughout its entire width, frames at the opposite ends of said clamp, said frames including arms extending beyond said clamp and provided at their free ends with hooks to which anchoring chains or the like are adapted to be connected.

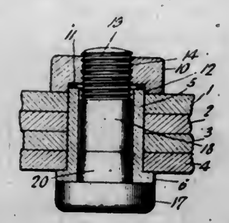
1,450,459. PORTABLE ROTARY SAW. CURTIS E. SMITH, St. Joseph, Mo. Filed May 17, 1921. Serial No. 470,333. 4 Claims. (Cl. 143—43.)



1. In a portable saw, a casing, a pair of spaced gears having integrally formed and laterally projecting bosses seated in bearings in the opposite side walls of the casing, an integrally formed sleeve projecting centrally of the inner face of one gear with its end seated within a centrally disposed socket in the inner face of the other gear, means rigidly binding the gears together, a circular saw mounted on the sleeve and spaced midway between the gears by bushings and a plurality of gears, with pairs of said gears meshing with the first-named gears, and means for rotating the gears for causing rotation of the saw.

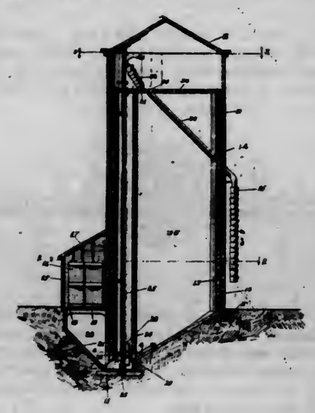
1,450,460. GENERAL UTILITY BOLT. HENRY A. W. SMITH, Danville, Va. Filed Feb. 23, 1922. Serial No. 538,560. 1 Claim. (Cl. 151—2.)

In a device of the class described, a bushing having a finger; a nut provided with a seat receiving the finger, and equipped with a recess adapted to receive the end of the bushing; a bolt in the bushing and threaded into



the nut, the bolt being provided with a head cooperating with the bushing; and means for preventing relative rotation between the bolt and the bushing.

1,450,461. GRAIN ELEVATOR. HALVER R. STRAIGHT, Adel, Iowa. Filed Oct. 8, 1920. Serial No. 415,664. 6 Claims. (Cl. 214—16.)



1. In a structure of the class described, the combination of a reinforced circular wall, the said circular wall being provided with a floor having the shape of an inverted truncated cone, the center of the truncated portion of said cone being near the outside of said wall, a semi-circular wall designed to rest on the outer edge of the truncated portion of said floor having its edges formed integral with the first said wall member, the interior of the first said wall being provided with a series of divergent partition walls having their ends radiating from the convex surface of said semi-circular wall and extending across the interior of said first wall, the ends of the partition walls being formed integral with the said walls, door openings near the bottom of said semi-circular walls one communicating with each of the bins formed by said partition walls, and means for opening and closing said door openings.

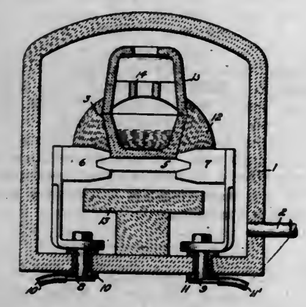
1,450,462. METHOD OF ACIDIZING RUBBER WASTE. RICHARD A. TERHUNE, Fairhaven, Mass., assignor, by mesne assignments, to Conrad Gaschott, Corona, N. Y. Filed Apr. 23, 1921. Serial No. 463,997. 4 Claims. (Cl. 18—52.)

1. In the process of reclaiming rubber waste the steps of treating the waste with an acid adapted to destroy the strength of the fiber and permitting the fiber to be acted on by absorbed acid without subjecting the rubber to a long immersion in the acid.

1,450,463. SULPHURIZED COMPOUND OF PHENOLS. ALFRED THAUSS, Dentz, near Cologne, and ALFRED GÜNTHER, Cologne, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co. in Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Aug. 8, 1921. Serial No. 490,747. 2 Claims. (Cl. 260—20.)

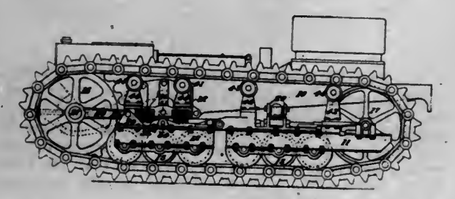
1. The herein-described new sulphurized compounds of phenols which are obtainable by boiling phenols with aqueous caustic alkali and sulfur; which compounds are generally yellowish powders being mordants for fixing basic dyes on cotton, substantially as described.

1,450,464. CRYSTAL FORMATION. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1920. Serial No. 398,965. 4 Claims. (Cl. 204—64.)



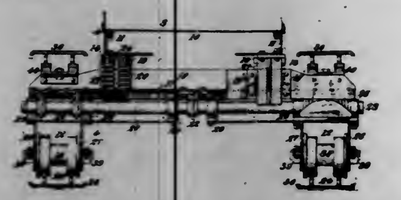
1. The process of forming crystals of a refractory material which consists in volatilizing said material in an enclosed space, maintaining the temperature and pressure of said vapor in such relation that the solid and vapor phase are substantially in equilibrium, and bringing said vapor into contact with a solid object which is cooler than said vapor but so nearly approaches the temperature of said vapor that a growth of crystals occurs having sharp angles, a smooth surface, and being substantially free from cavities.

1,450,465. CHAIN-TRACK TRACTOR. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 25, 1918. Serial No. 236,523. 4 Claims. (Cl. 305—9.)



2. In a vehicle, the combination of a main frame and means to support the same, including an endless chain track, a jointed roller truck within the track with a front idler and a rear sprocket in alignment, and a link pivoted on the main frame and loosely connected with the truck to permit the latter to have a limited vertical movement with relation to the frame and capable of sustaining the rear truck section in the event the vehicle bridges a depression and the track drops away from the truck.

1,450,466. CHAIN-TRACK VEHICLE. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Jan. 7, 1919. Serial No. 270,039. 4 Claims. (Cl. 305—9.)



1. In a track laying vehicle, a main frame, guide members extending downwardly therebeneath at each side thereof, a transverse load carrying beam slidably mounted between the guide members and extending beyond the same at each end, bearings mounted on the under side of said beam, spring members interposed between said beam and the main frame to afford resiliency in traversing uneven roadways, a roller truck frame at each side of the main frame located beneath the corresponding projecting end of the load carrying beam, bearings complemental to those on the beam located on the truck frames, and a shaft extending through said bearings on the beam and truck frames, respectively, to form a hinge connection, whereby the load on the main frame is transmitted to the truck frames through the beam.

1,450,467. SILICATE CEMENT. HERMANN WEYLAND, Elberfeld, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co. in Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Aug. 11, 1921. Serial No. 491,623. 11 Claims. (Cl. 106—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A cement comprising in admixture, an inorganic base, and a solution of a hydrolyzed organic silicon compound.

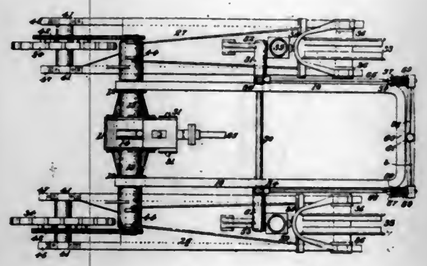
1,450,468. TRACTOR FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 15, 1918. Serial No. 249,963. 7 Claims. (Cl. 305—9.)



5. In a tractor frame suspension, a main frame, oppositely disposed roller frames at the sides thereof, a transverse shaft rotatably secured beneath the main frame, gears fixed to the opposite ends of said shaft, and connecting means between the gears and the opposite roller frames of the tractor, whereby movement of one roller frame will tend to produce an equal opposite movement of the other roller frame.

1,450,469. TRACTOR CONSTRUCTION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 22, 1918. Serial No. 250,931. 10 Claims. (Cl. 305—9.)

9. In a tractor construction having separate roller truck frames, and a main frame pivoted at one end thereof, an equalizer mechanism interposed between the forward ends of the roller frames and the main frame comprising a compensating bar centrally pivoted to the main frame, pressure arms carried by the main frame and operatively



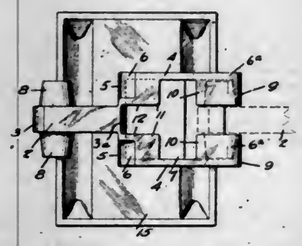
associated with the opposite roller frames, and yieldable connections between said pressure arms and the equalizer bar whereby a swinging movement of one arm will produce a reverse swinging movement of the other.

1,450,470. SINGLE-POINT FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed July 30, 1919. Serial No. 314,205. 8 Claims. (Cl. 305—9.)



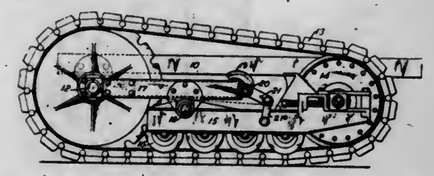
2. In a tractor, a main frame, self-laying track mechanisms disposed at opposite sides thereof, suspension means for the main frame arranged on a single transverse line, and means embodied in said frame suspension for equalizing the load on opposite truck mechanisms and stabilizing the main frame.

1,450,471. TRACTOR TREAD LINK. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 26, 1920. Serial No. 384,347. 8 Claims. (Cl. 305—10.)



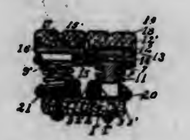
2. A tread-link, for tractor tread-belts, having a link forming body part and a tread plate, the body part having a transverse pivot head, and a pivot head socket for interlock with a companion link, the body part having a medial web or wall with end faces to co-act with a sprocket wheel.

1,450,472. SUSPENSION FOR TRACTORS. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed June 30, 1920. Serial No. 392,950. 4 Claims. (Cl. 305—10.)



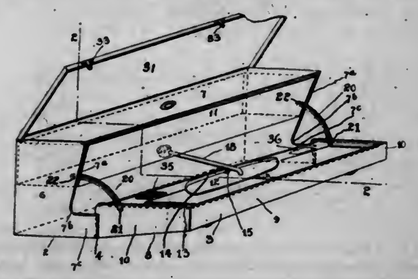
1. In a vehicle of the self-laying track type, a main frame, a truck frame at each side thereof, connecting means between the truck frame and the main frame, permitting said truck frame to rock in a vertical plane, and a load supporting connection between the truck frame and adjacent side of the main frame controlled by the rocking movement of the truck frame to permit the latter to rise without effecting any change in the elevation of the main frame.

1,450,473. RESILIENT TIRE. HENRY A. CARSON, St. Joseph, Mo. Filed May 12, 1921. Serial No. 469,010. 3 Claims. (Cl. 152—8.)



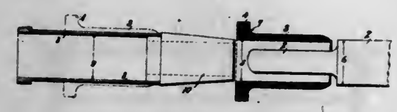
1. In a resilient tire; a plurality of links hinged together forming an annular endless chain around the rim of a vehicle wheel with a space of predetermined depth between said links and rim; springs in said space for pressing said links outward from said rim; guiding and retaining means connected with said links and rim whereby said springs are guided and retained in place and whereby said links are loosely guided through their inward and outward movement; and yieldable resisting means connected with said links and rim for yieldably resisting lateral movement of said rim in relation to said links.

1,450,474. PORTABLE LAVATORY. HERMAN L. WILKENS, Ridgewood, N. J.; Gesine Wilkens administratrix of said Herman L. Wilkens, deceased. Filed Mar. 3, 1921, Serial No. 449,463. Renewed July 25, 1922. Serial No. 577,491. 4 Claims. (Cl. 45—119.)



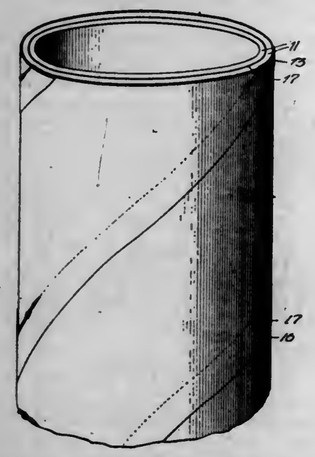
4. In a portable lavatory, in combination, a casing having an open front, a water tank contained in the upper portion thereof, a closure element hinged to fold against said front, a wash basin carried by said closure element, means for conveying water from said tank to said basin, and a top cover, hinged to said casing and adapted to enclose the top of said closure element, with the top of said casing, when said closure element is folded against said front.

1,450,475. OAR SLEEVE AND COLLAR. WILLSON E. WINTEMUTE, Vancouver, British Columbia, Canada. Filed Dec. 15, 1922. Serial No. 607,180. 4 Claims. (Cl. 9—26.)



1. A rowlock bearing sleeve and collar for an oar, said sleeve being of elastic material such as vulcanized rubber and moulded in one piece without joint or split, the inner dimension of the sleeve being less than that of the oar at its designed position thereon.

1,450,476. MOISTUREPROOF CONTAINER BODY. FREDERICK P. WOOD, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 18, 1919. Serial No. 290,927. 1 Claim. (Cl. 229—3.1.)



A moisture-proof container comprising an inner carcass of fibrous paper-like material, an outer spiral sheet the main portion of the width of which is wound on said carcass and the margins of which extend parallel with said carcass and with each other and are overlapped, and a continuous layer of fused cement compressed between said carcass and outer sheet, said fused cement also extending continuously between the lapped portions of said outer sheet in an interrupted layer exterior to said continuous layer, so as to make the vertical wall of the container impervious throughout.

1,450,477. DISPLAY BOX. FRANK E. ALLWORTH, Kalamazoo, Mich., assignor to Kalamazoo Paper Box Company, Kalamazoo, Mich. Filed Feb. 1, 1922. Serial No. 533,378. 5 Claims. (Cl. 229—10.)

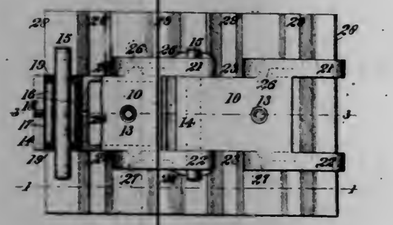
1. The combination of a box body comprising bottom, rear and end walls, and a front wall hinged at its lower

edge with the bottom projecting beyond the front wall to support it when it is collapsed, said box being provided with a horizontal partition providing superimposed tray compartments, said partition having holes at its ends adjacent its front edge, a flanged cover provided with an inner wall having holes adjacent the ends thereof, said cover being hinged at the rear of the box and adapted to support the front wall in closed position, trays for said compartments, the bottom tray being slidable in the bottom compartment and having holes in its



rear wall adjacent its ends, and a tape arranged with its bight between the cover walls and its ends through the openings in the inner wall and passed between the ends of the top tray and the walls of the box and through said holes in said partition plate and said holes in the rear wall of the bottom tray, the ends of the tape being connected so that when the cover is opened the front wall collapses on the bottom and the bottom tray is projected over and supported by the collapsed front wall.

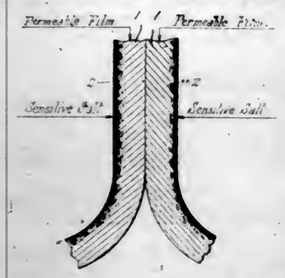
1,450,478. TRACK LINK. GEORGE T. ARTHUR, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 15, 1918. Serial No. 249,948. 4 Claims. (Cl. 305—10.)



1. A track link comprising a rectangular body portion, an oil reservoir in one end thereof, a laterally extending bearing through the opposite end thereof and in communication with the reservoir, a pair of longitudinally extending lugs formed at the opposite end of the block providing bearings for the ends of the hinge pin, and engaging pockets for the driving sprockets of the truck, and means for locking the pin against rotation in relation to the extending portions.

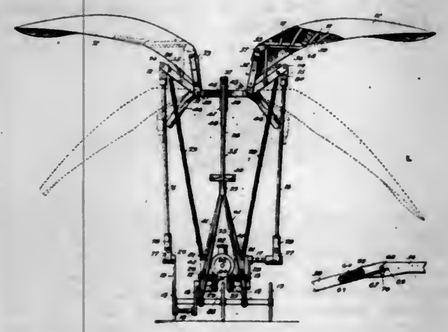
1,450,479. PHOTOGRAPHIC FILM WITH A CARRIER PERMEABLE TO WATER. JAQUES EDWIN BRANDENBERGER, Paris, France, assignor to La Societe La Cellophane, Siège Social, Paris, France. Filed Mar. 7, 1921. Serial No. 450,899. 4 Claims. (Cl. 95—9.)

1. A method of manufacturing photographic films, comprising the steps of moistening a cellulosic carrier permeable to water with a liquid, expressing the surplus liquid from the carrier, and then subjecting one surface



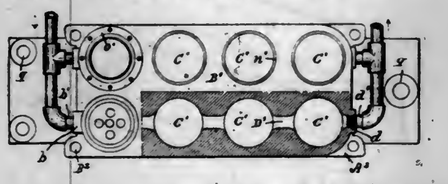
only of the carrier to the action of a different liquid to form a sensitive layer on said surface; substantially as described.

1,450,480. MECHANICAL BIRD. JAMES W. BUCK, New York, N. Y. Filed Oct. 23, 1918, Serial No. 259,333. Renewed Aug. 17, 1922. Serial No. 582,535. 13 Claims. (Cl. 244—20.)



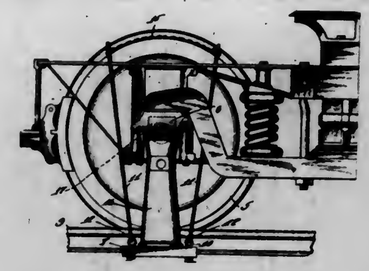
1. In a mechanical bird the combination with a frame, of a transverse course directing bar carried by said frame and universally movable thereon, oscillating wings pivotally mounted upon said course-directing bar at opposite sides of its supporting frame, and means under control of an operator for oscillating said wings.

1,450,481. HEATED MOLD FOR PLASTIC MATERIAL. CHARLES F. BURROUGHS, East Orange, N. J., assignor to Composition Machinery Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 4, 1921. Serial No. 434,966. 9 Claims. (Cl. 18—17.)



1. A holder for press-molds having a cylindrical socket with inlet and outlet upon its sides, and a die having cylindrical body fitted to such socket and having an annular channel upon the exterior of the body connecting with the inlet and outlet, and annular packings at opposite sides of such channel preventing leakage from the socket.

1,450,482. JACK SUPPORT. JOHN M. CHAPPELL and ROBERT E. EDMONDSON, Thornton, Tex. Filed Apr. 22, 1922. Serial No. 556,119. 1 Claim. (Cl. 254—34.)

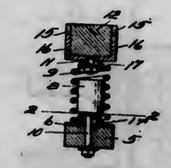


In combination with a car wheel and the rail on which the same is positioned, a support including a base having a cut out portion adjacent to one end thereof and adapted to fit under the rail, a pair of rods secured to the base adjacent to the cut out portion and extending upwardly therefrom, said rods having right angled upper end portions formed with hook members at the free ends thereof, said right angled portions adapted to fit over a wheel, and means connecting the rods for holding them in predetermined spaced relation.

1,450,483. PROCESS OF MAKING BREAD. DAVID CHIDLOW, Ridgefield, Conn., assignor to James F. Strachan and William S. Strachan, both of Montreal, Canada. Filed Dec. 22, 1921. Serial No. 524,274. 3 Claims. (Cl. 99—10.)

1. The process of making bread, which consists in mixing flour and other ingredients to form the bread compound, fermenting the bread compound for a part of the usual period of fermentation for such compound, then adding grain germ to the bread compound between the commencement and completion of the fermentation period, and then baking the bread compound at a period sufficiently proximate to the addition of the germ to prevent substantial destruction of the gluten by the germ.

1,450,484. VEHICLE WHEEL. WALLACE CHILDS, Kansas City, Mo. Filed Feb. 20, 1922. Serial No. 538,091. 1 Claim. (Cl. 152—43.)



A vehicle wheel comprising a felly, a channeled rim secured on said felly, the sides of said channel projecting outwardly and having serrations formed on their edges, and a continuous tread filler in said channel.

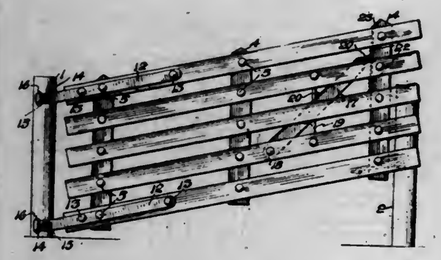
1,450,485. CEMENTING DUMPER. BENJAMIN COUSINS, Slick, Okla. Filed Dec. 8, 1921. Serial No. 521,063. 16 Claims. (Cl. 294—69.)

1. A cementing dumper comprising a tube having a delivery opening at the lower end thereof, a movable bottom for said tube, said bottom being capable of bodily movement in the direction of length of said tube, means detachably connected to said bottom for maintaining the latter in closed relation to said tube, said means being adapted to be suspended from a bailing line and being



adapted to be operatively detached from said bottom to permit the latter to assume an open position, and means for suspending said bottom from said tube.

1,450,486. GATE. OSCAR L. COX, Memphis, Mo. Filed Nov. 15, 1920. Serial No. 424,371. 1 Claim. (Cl. 30—80.)

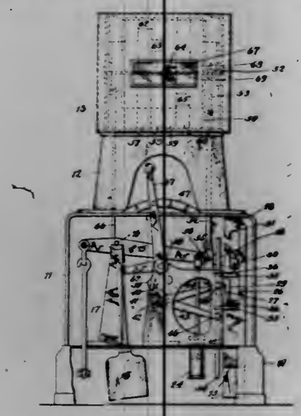


In a gate structure, horizontally disposed bars pivotally connected to spacer vertical bars, metallic strips rigidly carried by certain of the horizontal bars and extending rearwardly of the gate, bifurcated hinge members pivoted at one end to said strips transversely of the gate and provided at their opposite ends with vertical sleeve portions for fitting upon L-shaped pintles extending transversely from the gate post, said gate being capable of movement with respect to either of said pivots independent of the other of said pivots.

1,450,487. SCALE. ROBERT CRAIG, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Jan. 24, 1921. Serial No. 439,334. 11 Claims. (Cl. 265—48.)

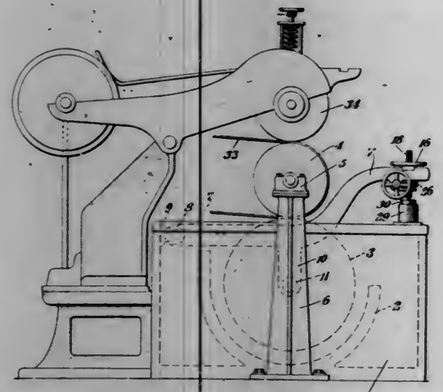
1. In a weighing scale, in combination, a scale beam, a load support connected thereto, an automatic counterbalancing means for the applied load, an indicating drum displaced in accordance with the displacement of the beam, capacity weight applying means, and means associated with said capacity weight applying means for ob-

securing certain sections of said drum and rendering other sections thereof visible whereby the total load as counter-



balanced by the automatic counterbalancing means and by the applied capacity weights may be directly read from the said drum.

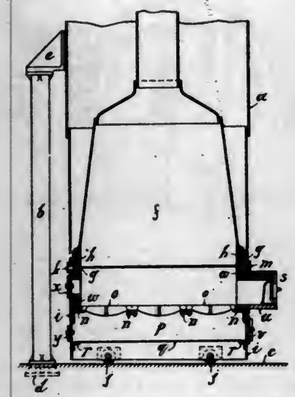
1,450,488. PAPER-MAKING MACHINE. WILLIS S. CRANDELL, Elsmere, N. Y. Filed Apr. 29, 1921. Serial No. 465,391. 17 Claims. (Cl. 92—43.)



1. In a cylinder paper machine, the combination of a cylinder mould and a couch roll, bearings for said cylinder mould and couch roll adapted to permit rotative movement of said parts in surface engagement one with another, adjusting means associated with the bearings of one of said parts providing an adjustment of said part bodily toward or away from the other said part, and like associated but independently operable adjusting means providing a like adjustment of end portions of said part.

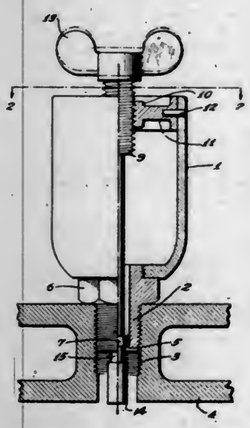
1,450,489. VERTICAL STEAM-GENERATOR FURNACE. HENRY CRUSH, Hyde, England. Filed Feb. 27, 1922. Serial No. 539,499. 1 Claim. (Cl. 110—88.)

The combination, with a foundation; a boiler shell, a vertical firebox open at the bottom and having its lower end secured to the lower portion of the boiler shell, said firebox being provided with a smoke outlet at its upper part, an annular dead plate secured to the boiler shell below the firebox joint, and refractory material upported by the dead plate and protecting the firebox joint; of means for supporting the boiler shell and firebox above the foundation; and a portable furnace open at the top and adapted to be slid upon the foundation under the



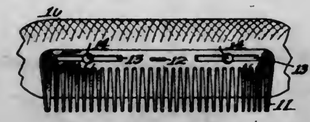
boiler shell, said furnace being provided with means for admitting fuel and air to support combustion, and having a ring of refractory material at its upper part arranged to come directly under the said annular dead plate when the furnace is in its working position.

1,450,490. PRIMING DEVICE. EDWARD T. CURRAN, Detroit, Mich. Filed July 2, 1921. Serial No. 482,077. 4 Claims. (Cl. 123—187.5.)



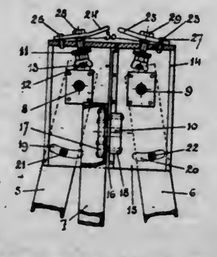
1. A priming device embodying a receptacle provided with a threaded shank adapted to extend for a portion of the distance through the priming passage of an associated engine cylinder, a duct leading from the base of the receptacle through the threaded shank to permit liquid to flow from the cup into the engine cylinder, a valve seat associated with said passage, a valve cooperating with the valve seat, means for seating and unseating the valve, and means carried by the valve and adapted to extend into the passage beyond the end of the threaded shank for the purpose of precluding the clogging of such passage by carbon deposits.

1,450,491. HAIR ROLL OR PUFF. MURRAY C. DAMON, Leominster, Mass., assignor to The Hairlight Company, a Corporation of Massachusetts. Filed Dec. 19, 1921. Serial No. 523,267. 4 Claims. (Cl. 132—55.)



1. As an article of manufacture, a hair roll or puff provided with a comb secured centrally thereof at one point on the concave side, and means on opposite sides of said point for adjustably connecting the comb with the puff and keeping the puff in contact with the back of the comb in all adjusted positions.

1,450,492. DIVISIBLE AND ADJUSTABLE BRIDGE OR CRANE FOR LIFTING, CARRYING, OR SUSTAINING LOADS. FRANÇOIS EMILE MAURICE EIARD, Levallois-Perret, France. Filed Aug. 12, 1920. Serial No. 403,075. 3 Claims. (Cl. 104—126.)

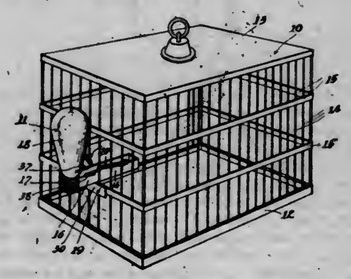


1. Apparatus of the character described comprising in combination two tripods with pivotally attached legs, a beam having flanges, plates on each tripod adapted to engage said flanges and screws for tightening said plates.

1,450,493. KETONE BODY AND PROCESS OF MAKING SAME. CARLETON ELLIS and ALFRED A. WELLS, Montclair, N. J., assignors, by mesne assignments, to Seth B. Hunt, trustee, Mount Kisco, N. Y. Filed Jan. 28, 1918. Serial No. 214,082. 12 Claims. (Cl. 260—134.)

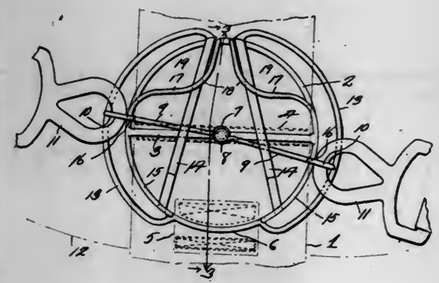
3. The process of producing ketones which comprises exposing alkyl sulphuric acid to an oxidizing agent.

1,450,494. WATERING TROUGH. HENRY EUMMELEN, Santa Ana, Calif. Filed Feb. 26, 1921. Serial No. 448,163. 11 Claims. (Cl. 119—18.)



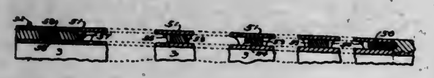
1. A device adapted to be used in combination with a cage having vertical and horizontal bars, including a water trough adapted to extend inwardly between two vertical bars, a reservoir in connection with the outer portion of the trough, a bracket on the trough to engage a horizontal bar, and a bracket pivotally connected with the trough and adapted to be actuated when the trough is in position between the bars to engage the vertical bars at a point removed from where the first mentioned bracket engages the horizontal bar.

1,450,495. TRACE HOLDER. DAVID W. FERGUSON, Harrold, S. Dak. Filed May 10, 1922. Serial No. 559,941. 3 Claims. (Cl. 54—55.)



1. A trace holder comprising an annular member, a bar carried by said annular member and adapted to be attached to a support, an outwardly extending headed lug carried by said bar and disposed centrally in relation to the annular member, oppositely extending pivoted arms carried by said headed lug, the outer end of said pivoted arms terminating in hooks for the reception of trace loops, segmentally shaped guide members carried by the opposite sides of the annular member and disposed beneath the hooks, segmentally shaped outwardly offset hook engaging members carried by the opposite sides of the annular member and forming means for preventing displacement of loops on the hooks, the upper ends of said segmentally shaped outwardly offset hook engaging members terminating in inwardly extending portions thereby forming means for allowing easy removal of the loops from the hooks.

1,450,496. SINGLE-BARREL FIREARM OF THE BREAKDOWN TYPE. EMIL F. FLUES, Buffalo, N. Y. Filed Sept. 18, 1919. Serial No. 324,545. 3 Claims. (Cl. 42—41.)

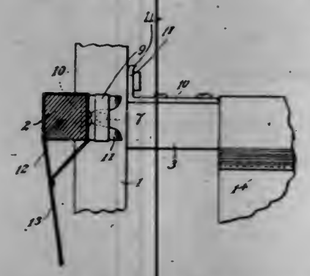


1. In a firearm, the combination of a barrel, a plurality of pillars formed on said barrel and having under-cut edges, a sighting rib provided with flanges adapted to embrace said pillars, and pins fixedly secured in said flanges and adapted to co-act with the under-cut edges of said pillars for seating said rib on said pillars.

1,450,497. BED. THOMAS H. GRIFFITH, Cincinnati, Ohio. Filed Jan. 24, 1922. Serial No. 531,475. 2 Claims. (Cl. 5—98.)

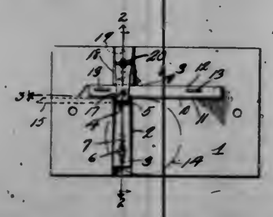
1. A means for mounting a fabric retaining bar in devices of the character described, comprising a bolt in one

member having a nut at one end and a fixed T-shaped head on the other end, and a hook-shaped element on



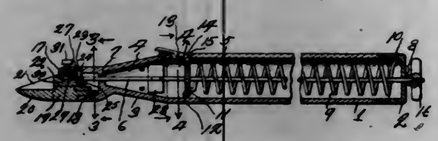
the other member adapted to straddle the bolt shank behind the T-shaped head, for the purpose described.

1,450,498. LACE CUTTER. LEO NICHOLAS GRONER, St. Thomas, Mo. Filed Nov. 1, 1921. Serial No. 512,057. 2 Claims. (Cl. 164—37.)



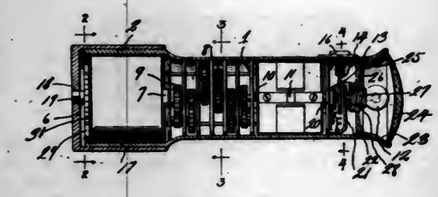
2. A device for forming laces from pieces of material, said device comprising a base, a guide flange carried by said base, an adjustable knife in parallel relation to said guide flange and adjustable in relation to said guide flange and an inwardly and outwardly adjustable guide finger carried by the base and extending through a notch in the guide flange and overlying the space between the guide flange and the knife.

1,450,499. CLIPPING MACHINE. CHARLES W. HARVEY, East Lyme, Conn. Filed June 24, 1921. Serial No. 480,024. 1 Claim. (Cl. 30—1.)



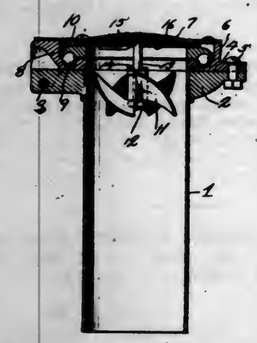
A clipping machine comprising a casing, a finger bar secured to the forward end of the casing, a flange carried by the casing and overlying said finger bar and provided with a transversely disposed slot, a knife blade disposed on the finger bar and having a tongue and groove connection therewith, a transversely disposed rib carried by the knife blade and disposed in the transversely disposed slot of the overlying flange, a drive shaft, a crank pin connection between the shaft and the rear end of the knife blade, a transversely disposed bowed leaf spring disposed in a transversely disposed slot in the knife blade, and an adjusting screw extending through the overlying flange and forming means whereby the frictional engagement of the bowed leaf spring may be varied.

1,450,500. FLASH LIGHT. CHARLES W. HARVEY, New London, Conn. Filed Jan. 17, 1922. Serial No. 529,843. 1 Claim. (Cl. 240—8.5.)



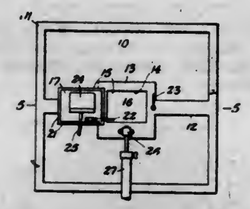
The combination with a flashlight comprising a cylindrical casing having its rear end open, an electric generator within the forward end of said casing, a spring motor in the rear open end of the casing for operating said generator, an electric bulb lighted by said generator, a drive shaft for said spring motor, of means whereby said spring motor may be wound, said means comprising a cylindrical cup shaped housing rotatably mounted on the rear end of the cylindrical casing and having its bottom in close relation to the rear end of the casing, the bottom of the cup shaped cylindrical member being centrally attached to the motor shaft, a ratchet wheel carried by said shaft and located between the motor and the bottom of the cup shaped member and a pawl pivotally connected to the inner periphery of the cylindrical casing adjacent its rear open end and cooperating with the ratchet and forming means for preventing retrograde movement of the spring motor shaft.

1,450,501. SPARK BREAKER. CHARLES E. HULL, Onaway, Mich. Filed Oct. 17, 1922. Serial No. 595,115. 3 Claims. (Cl. 183—64.)



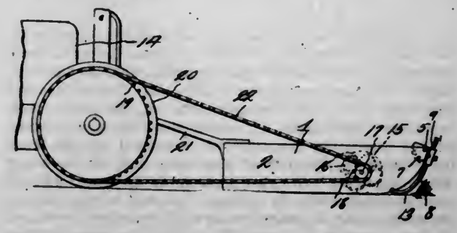
1. The combination with a smoke stack, of a spark breaker therefor, said spark breaker comprising an annular member secured to the upper end of the stack, an annular frame hingedly connected to one side of the annular member and registering therewith, a bearing ring disposed within the annular frame, said bearing ring being supported on anti frictional bearings, a downwardly extending fan carried by the bearing ring and axially disposed within the upper end of the stack, an upwardly extending annular flange carried by the annular frame, a screen carried by the upper side of the annular flange and registering with the stack opening and a screen carried by the upper side of the bearing ring and registering with the stack opening.

1,450,502. DOOR CONSTRUCTION FOR FLASH-LIGHT APPARATUS. EVERARD L. JOHNSON, Patchogue, N. Y. Filed Oct. 22, 1921. Serial No. 509,674. 9 Claims. (Cl. 67—28.)



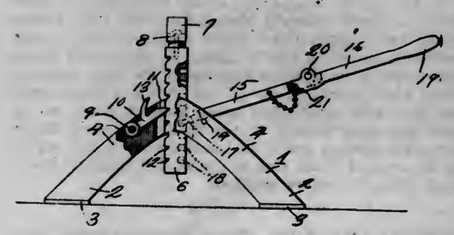
1. A door construction for flashlight apparatus comprising door members, each pivotally secured to the flash bag and co-operating with each other to close the door opening to the flash bag in different positions of said door members.

1,450,503. BOG PULVERIZER. JAY R. KELLER, Elizabeth, Nebr. Filed July 7, 1922. Serial No. 573,320. 1 Claim. (Cl. 97—41.)



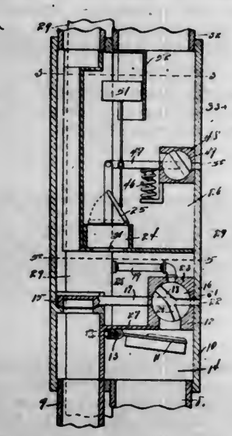
A pulverizer and scattering machine comprising a frame, a tooth bar at the forward end of said frame, means whereby said tooth bar may be adjusted in a vertical longitudinal plane, downwardly and rearwardly extending severing knives carried by said tooth bar, means whereby said severing knives may be adjusted upwardly and downwardly, a transversely disposed severing and scattering element located rearwardly of the knives and rotatably mounted in bearings of the frame, and sprocket and chain means whereby said scattering and severing element may be rotated at a high speed.

1,450,504. VEHICLE JACK. IRVING V. LUCAS, Muskogee, Okla. Filed June 30, 1921. Serial No. 481,539. 1 Claim. (Cl. 254—118.)



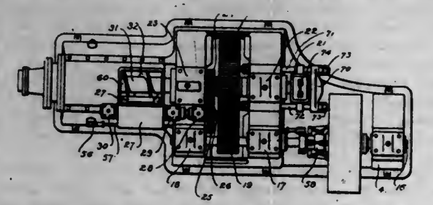
A vehicle jack comprising a base, said base being upwardly arched and formed from parallel spaced bars, the inner faces of said bars being provided with vertically disposed integral guide ribs, a vertically disposed and movable axle engaging bar slidable between said lugs, a dog pivoted between the spaced parallel bars and cooperating with a plurality of notches in one side of the axle engaging bar, a transversely disposed pin extending the spaced parallel bars on the opposite side of the vertically movable bar from the side on which the dog is disposed, a detachable and removable lever having a fulcrum on the transversely disposed pin, the nose of said lever cooperating with a plurality of apertures in the vertically movable bar, whereby said bar may be intermittently forced upwardly, the ends of the base being disposed a substantial distance outwardly from the pivotal points of the dog and transversely disposed pin.

1,450,505. PNEUMATIC STAGE PUMP. JOE E. MCDOWELL, Fort Worth, Tex. Filed June 17, 1921. Serial No. 478,254. 4 Claims. (Cl. 103—248.)



1. A pneumatic stage pump comprising a plurality of units, a gas or air supply pipe common to all the units, each unit having a chamber provided with an intake valve and an air outlet for escape of air from said chamber while liquid is coming in, a liquid discharge pipe, a gas or air starting valve adapted to communicate with said supply pipe and to be automatically opened by the liquid coming in said chamber, a main gas or air valve operatively connected to said supply pipe and to be automatically opened by liquid forced out of said chamber up said discharge pipe whereby gas or air is supplied to said chamber for closing said starting valve and for forcing liquid out of said discharge pipe to the next unit above.

1,450,506. BRICK AND TILE MACHINE. ROY H. MCELROY, JOSEPH D. CITE, and ALBERT G. LANGENKAMP, Dayton, Ohio, assignors to Roy H. McElroy, Dayton, Ohio, receiver for The Bahmann Iron Works Co., Dayton, Ohio, a Corporation of Massachusetts. Filed Aug. 16, 1921. Serial No. 492,671. 11 Claims. (Cl. 25—14.)



1. In a machine for extruding plastic material, a base casting consisting of a base member, an extruding casting member, a gear and shafting supporting member, and an

outboard casting member all of said members integral with one another in a single casting, and reinforcing means consisting of dividing walls cast integral with said several members and the base member for maintaining the several parts together as a unit and reinforcing them, and an auger working in said extruding casting.

1,450,507. METHOD OF RECOVERING VANADIUM FROM ITS ORES. PHILIP ALEXANDER MACKAY, London, England. Filed Sept. 28, 1920. Serial No. 413,417. 6 Claims. (Cl. 23—13.)

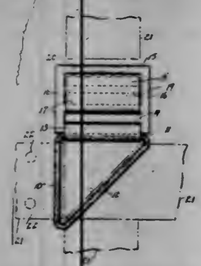
1. A method of recovering vanadium pentoxide from the other oxides combined with it in vanadium ores, particularly lead oxide, by subjecting the ore to the action of oleum at a suitable temperature, reducing the vanadium pentoxide to vanadium tetroxide, in order to obtain vanadyl sulphate, and subsequently diluting the solution with water to precipitate the insoluble constituents of the ore and to leave the vanadium in solution.

1,450,508. FISH-CLEANING MACHINE. DOUGALD MACPHEE, Rivers Inlet, British Columbia, Canada. Filed Mar. 28, 1922. Serial No. 547,528. 16 Claims. (Cl. 17—10.)



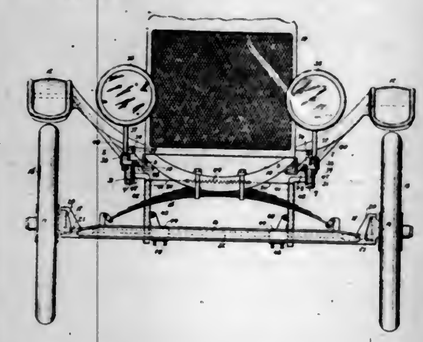
3. In a fish cleaning machine, the combination with an endless conveyor, and means for engaging the back of the fish to hold it in a longitudinal position upon the conveyor, of a guiding device between which the body of the fish travels, a knife supported above the conveyor and adapted to engage the open end of the fish to rip the belly longitudinally, means for spreading the side of the fish open against the guiding means as they are severed, a circular member mounted to revolve at each side of the rear portion of the knife and having its periphery revolving closely adjacent to the rear end of the knife body, an open wire construction extending outwardly from the periphery of the circular member and comprising a series of wires curved outwardly from the periphery of each circular member and radially inward towards the centre thereof, and annular holding wires connecting the aforesaid wires together.

1,450,509. STRAP BUCKLE. JULIUS MALTBY, Waterbury, Conn., assignor to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed June 6, 1922. Serial No. 566,216. 1 Claim. (Cl. 24—17.)



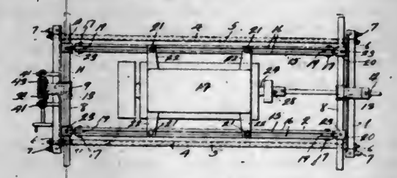
In a strap buckle, the combination with a rectangular buckle-frame, a strap-gripping means mounted thereupon, a triangular, strap-fastening and strap-deflecting extension, and means made independent of the said buckle-frame and extension for flexibly connecting the same, the said means embracing the inner bar of the frame and one of the short sides of the extension.

1,450,510. HEADLIGHT INSTALLATION FOR AUTOMOBILES. MALCOLM P. NICHOLS, New Haven, Conn. Filed Jan. 20, 1920. Serial No. 352,833. 1 Claim. (Cl. 240—62.)



A headlight installation for automobiles, comprising two convertor-members pivotally mounted between their ends to the fender-brackets on opposite sides of an automobile; each member having a forwardly projecting and outwardly offset lamp-carrying arm, an inwardly turned stop-finger carrying an adjustable chassis-engaging cushion for regulating the outward movement of the lamp and located to the rear of the pivot, and an inwardly offset depending arm also located to the rear of the pivot and engaged by an actuator mounted on the spindle-connecting rod; the combination with a spring connecting the two members for normally holding the stop-cushions in engagement with the chassis.

1,450,511. ENGINE-SUPPORTING STAND. NIELSEN, Lincoln, Nebr. Filed Feb. 7, 1922. Serial No. 534,718. 4 Claims. (Cl. 29—89.)



1. An engine supporting stand comprising a rigid frame, a frame pivotally mounted in said rigid frame, means for supporting an engine on the pivoted frame, outwardly extending pintles carried by the pivoted frame and rotatably mounted in bearings of the rigid frame, a worm wheel carried by one of said pintles, a worm meshing with said wheel, said worm being mounted on an operating shaft carried by the rigid frame, and means extending through one of the pintles whereby the engine on the pivoted frame may be operated through its crank shaft when in various positions.

1,450,512. PILE WIRE. RILEY HERBERT PARKER, Winthrop, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Jan. 6, 1922. Serial No. 527,336. 3 Claims. (Cl. 139—63.)

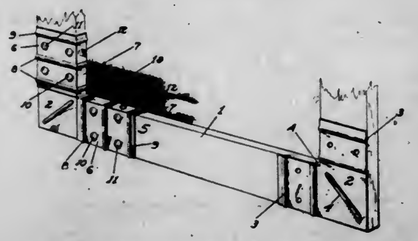
1. A pile wire provided with a blade-receiving recess in its upper edge and with a lateral opening at one end

of the recess, in combination with a flexible cutting blade having a substantially triangular shape with upwardly-converging front and rear edges and located mainly



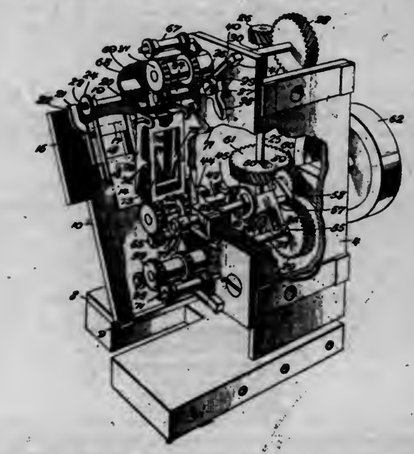
above the top of the wire when seated on the bottom of the recess, and retaining means overhanging the ends of the blade near its lower edge but leaving the blade free to be flexed at one end into said opening.

1,450,513. FRAME BRACE. MILES E. PEARSON and EDWARD TOW, Sacramento, Calif.; said Pearson assignor to said Tow. Filed Dec. 28, 1921. Serial No. 525,293. 4 Claims. (Cl. 20—92.)



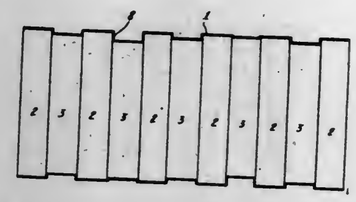
1. A frame brace comprising a plate adapted to lie against the sides of a pair of angularly related members of a frame and to project beyond the apex of the angle between said frame members, an additional plate members adapted to lie on the first named plate and to extend therebeyond at each end, securing means for fastening both plate members together and to the frame, and means for insuring positive alinement of said plate members with each other regardless of the securing means.

1,450,514. MOTION-PICTURE PROJECTION. CHARLES F. PERHAM, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 6, 1921. Serial No. 467,426. 3 Claims. (Cl. 88—17.)



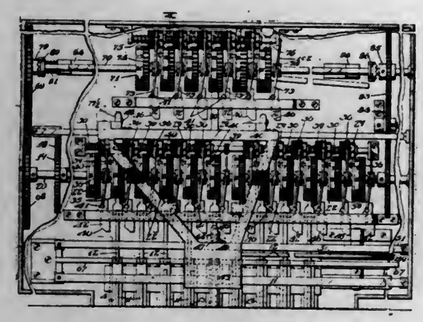
1. In a motion picture projection apparatus, the combination of a film with an aperture plate, a film looping member, a guide member arranged to direct the looped portion of the film toward the aperture plate, and a tension plate actuated to intermittently clamp the film against said aperture plate.

1,450,515. MINERAL CLASSIFYING AND CONCENTRATING APPARATUS. WILLIAM WHITEHEAD RICHARDSON, London, England. Filed Sept. 25, 1920. Serial No. 412,708. 9 Claims. (Cl. 83—86.)



1. In mineral classifying and concentrating apparatus, a rotatable trommel comprising a series of cylindrical spaced drums arranged concentrically to a common axis, and a series of cylindrical drums arranged alternately between the drums of the first mentioned series and each successively angularly displaced eccentrically of said common axis, the drums of the first series being of different diameter to the drums of the second series.

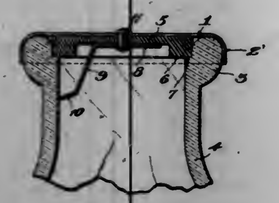
1,450,516. CALCULATING MACHINE. EMANUEL RICHTER, Chicago, Ill., assignor to The Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 24, 1906. Serial No. 307,942. 30 Claims. (Cl. 235—63.)



1. In a computing machine, operating keys, a shaft, an intermediate mechanism transmitting the movement of either of the keys to the shaft and rotating the same a distance dependent upon the particular key operated, a second shaft driven by the first, indicator wheels loosely mounted thereon, and clutch mechanism for engaging each of the wheels with the shaft, in combination with a transversely movable carriage arranged to operate the clutch mechanism, and controlling mechanism connecting the carriage with the several keys, whereby the movement of a key will rotate the second shaft a fixed distance and engage an indicator wheel with said shaft.

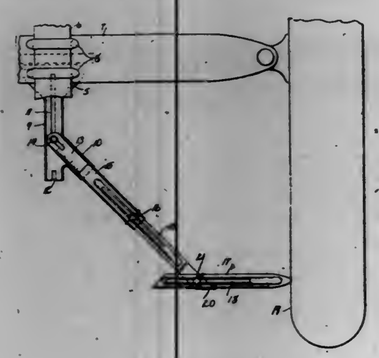
17. The combination with a plurality of computing devices each including denominational members and carrying means, of a single operating shaft on which said computing devices are carried, an additional computing device, an additional operating member therefor, a movable carriage, means controlled by the carriage for connecting the first named computing devices with the operating shaft, and means also controlled by the carriage for connecting the additional computing device to the additional operating member to be operated thereby in correspondence with each of the computing devices first named.

1,450,517. MILK-BOTTLE CAP. THOMAS F. RONEY, Providence, R. I. Filed Sept. 13, 1922. Serial No. 587,958. 2 Claims. (Cl. 215—51.)



1. A milk bottle cap comprising a body having a depending marginal flange, a gasket member having a marginal enlargement and arranged within the flange in spaced relation thereto, a pointed implement seated within the gasket member and having a radially extended arm deflected downwardly below the plane of the flange and terminating in an outwardly directed point, and a single fastening means for securing the body, gasket member and implement together.

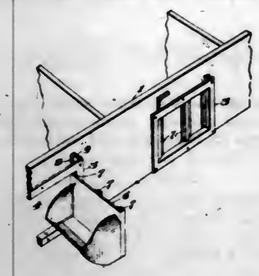
1,450,518. WHEEL-TRUING GAUGE. ISRAEL SCHWARTZ, Danbury, Conn. Filed Jan. 23, 1922. Serial No. 531,129. 1 Claim. (Cl. 33—203.)



A wheel rim truer, comprising a bracket adapted to be secured to a fixed point adjacent to a vehicle wheel and provided with an outwardly-extending main support and a branch support extending at an angle thereto, said main support formed with a longitudinal groove and the branch support with a longitudinal groove intersecting the groove in the main support, a slide adjustably connected with said main support and adapted to rest in either of said grooves, an arm adjustably connected with said slide in a plane parallel therewith, and a finger adjustably connected with said arm in a plane parallel therewith.

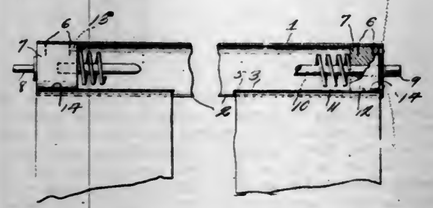
1,450,519. HOG-TROUGH APPARATUS. ALBERT B. SHIVELY, Laurel, Nebr. Filed Dec. 1, 1922. Serial No. 604,329. 5 Claims. (Cl. 119—61.)

5. In an apparatus of the class described, the combination with a support provided with an opening, of an angle frame secured to said support around said opening, a platelike gate closing said opening and positioned within the angle, a frame, a trough secured to one side of said gate, a series of vertical hollow casings secured to the other side of said gate, an operating shaft rotatably mounted in said angle frame and extending through one



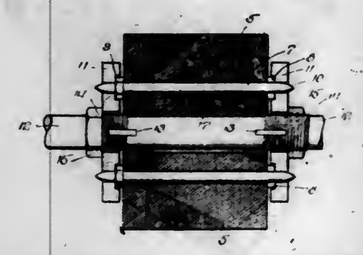
of said casings, and a locking shaft in one of said casings and extending through portions of said angle frame.

1,450,520. SHADE ROLLER. WESLEY F. SMITH, Bandana, Ky. Filed May 5, 1921. Serial No. 466,922. 1 Claim. (Cl. 156—25.)



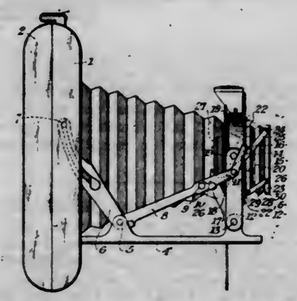
A shade roller comprising a cylindrical body portion formed from spring sheet metal, said cylindrical body portion being provided with registering overlapping edges substantially concentric with each other, a shade clamped between the adjacent sides of said edges, said shade being folded, longitudinally disposed stitching adjacent the folded edge of the shade, the free edge of said shade beyond the stitching overlying the inner side of the inner edge of the body portion and in conjunction with the stitching forming means for preventing displacement of the shade.

1,450,521. ARMATURE FOR DYNAMO-ELECTRIC MACHINES. ARTHUR STEINBACH, Chicago, Ill., assignor of one-half to Leo Podgorsek, Chicago, Ill. Filed Dec. 31, 1921. Serial No. 526,087. 2 Claims. (Cl. 171—207.)



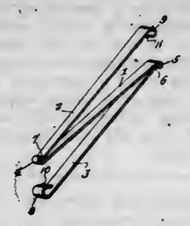
2. A sectional armatnre providing a shaft and having a core divided on substantially radial lines into a plurality of sections, each section composed of a plurality of lamine; a rod, pointed at both ends, extending thru respective sections with its ends projecting therebeyond at each end of the section; nuts on the rods to hold the laminæ together; a disk slidable on the shaft overlying the nuts to prevent their rotation and having a perforation for each rod, arranged so that all said sections are drawn inwardly into intimate contact when the disks are in ultimate positions and nuts on the shaft to move the disks into and to hold them in positions.

1,450,522. LENS SHADE. RAY L. STINCHFIELD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 12, 1921. Serial No. 521,898. 9 Claims. (Cl. 95—40.)



1. A folding camera comprising a camera body, a photographic lens carrier movable to extended and retracted positions relative to said body, a lens shade on said carrier movable into and out of lens-shading position, and means for automatically moving said shade into and out of said shading position upon movement of said lens carrier to said extended and retracted positions.

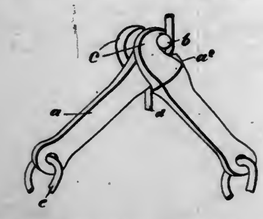
1,450,523. HAIR CURLER. WYNN W. STUMPH, Tulsa, Okla. Filed Mar. 18, 1922. Serial No. 544,744. 1 Claim. (Cl. 132—41.)



A hair curler including a straight central portion terminating in looped portions, resilient arms adapted for transverse movement projecting from the looped portions at points adjacent the opposite sides of the central portion and extending in opposite directions, said arms being bent inwardly to form circular loops and the ends of the loops being spaced from the inner faces of the respective arms a distance equal substantially to the double thickness of the body thereby permitting snug engagement of the loops with the enlarged ends and preventing lateral movement of the arms.

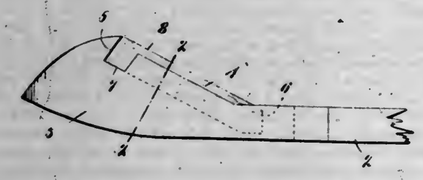
1,450,524. MEANS FOR GRIPPING WIRE OR THE LIKE. WILLIAM SWANN, Walsall, England, assignor to Charles Trawford, Limited, Walsall, England. Filed June 29, 1920. Serial No. 392,769. 1 Claim. (Cl. 24—134.)

A wire gripping device comprising a pair of levers one having a convex face near one end and also having a pair of oppositely extending trunnions at said end, and the other having a concave face opposed to the convex face of the first named lever and also having a pair of spaced hooks arranged on opposite sides and directly at one end of the first named lever, engaging said trunnions, and



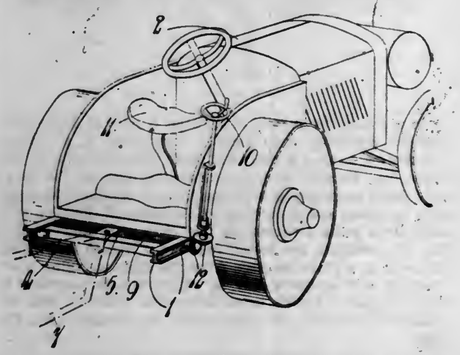
thereby pivotally detachably connecting said levers together, the said convex and concave faces of said levers being spaced apart to receive a wire between them.

1,450,525. PILE WIRE. RALPH E. THOMPSON, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Nov. 1, 1920. Serial No. 420,963. 4 Claims. (Cl. 139—63.)



1. A pile wire having a recess adapted to receive a normally-flat flexible blade and an open space at one end of the recess into which one end of the blade may be flexed laterally, the end walls of the recess being shaped to overhang the ends of the flat blade while seated on the bottom of the recess.

1,450,526. COUPLING APPLIANCES FOR TRAILER VEHICLES, TILLING IMPLEMENTS, AND THE LIKE. HAROLD EDGAR TIMMIS, Dublin, Ireland. Filed Feb. 15, 1922. Serial No. 536,822. 2 Claims. (Cl. 280—33.10.)



1. A coupling device for vehicles comprising a transversely disposed screw, rotatably mounted at the rear of the tractor vehicle; means for rotating the said screw; a coupling block having a central portion which is operably mounted upon the said screw and two extending end portions which are adapted to be guided; means carried by the central portion of the block for the attachment of the draw bar of a tractor vehicle; and a pair of channel guides which surround and totally enclose said end

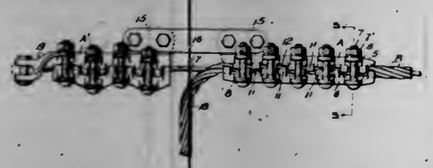
portions of the block, being located one on each side of the screw; whereby all rearwardly extending attachment means are dispensed with.

1,450,527. PISTON-RING CLAMP. FARRY TROST, Troy, Ill. Filed Sept. 21, 1921. Serial No. 502,158. 1 Claim. (Cl. 29—86.4.)



A piston ring clamp comprising a pair of crossed handle members, finger receiving loops at one end of said crossed handle members, a loop detachably connected to the end of one of said crossed handle members, a flexible band connected to said loop, a loop carried by the end of the other crossed handle member, the flexible band having one of its ends attached to the detachable loop, the free end of said flexible band being provided with a plurality of apertures, a lug extending outwardly at substantially a right angle from the outer face of one of the crossed handle members adjacent its loop and at a right angle to the loop and forming means for engaging in one of the plurality of apertures in the free end of the flexible band for holding said band during a piston ring clamping and contacting operation.

1,450,528. CLAMP DEVICE FOR ELECTRIC CONDUCTORS. THEODORE VARNEY, Sewickley, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1920. Serial No. 403,455. 13 Claims. (Cl. 24—135.)

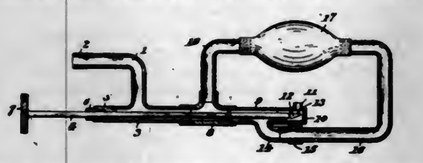


2. A clamp for cables comprising a pair of adjustably opposed members, each member consisting of a central rib portion having a concaved cable engaging seat on the inner face thereof, laterally extending lugs on the members, bolts cooperating with the lugs for holding the members together, and extensions at the sides of the ribs, said extensions being so arranged that they may interfit when the two members are bolted together, the said lugs being disposed in a plane recessed from the cable engaging seats whereby said members may be adjusted close together to engage cables of very small diameters without said extensions limiting such adjustment by contact with the lugs.

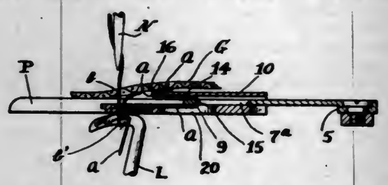
1,450,529. [WITHDRAWN.]

1,450,530. OIL BURNER. JOSEPH B. WATKINS, Willow Springs, Mo., assignor of one-half to Royal D. Rosier, Willow Springs, Mo. Filed Feb. 23, 1922. Serial No. 538,800. 3 Claims. (Cl. 158—63.)

3. A burner comprising an elongated vaporizing chamber, pipes extending from the reduced opposite end of said chamber, a main conducting pipe, an oil supply pipe connected with said main supply pipe near one end thereof, one of the pipes from said vaporizing chamber being connected with the central portion of said main conducting pipe, a burner member mounted on one end of said main conducting pipe between said vaporizing chamber, the remaining pipe extended from said vaporizing chamber being turned and connected with said main conducting pipe near the end carrying the burner member, a valve member pivotally mounted in said burner member, and a valve stem extending through said main conducting pipe and projecting from one end thereof to control said pivoted valve member.

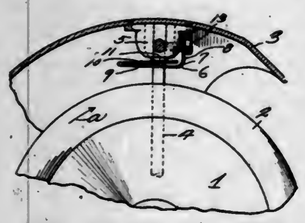


1,450,531. THREAD-BREAKING MECHANISM. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Renewed Dec. 24, 1919, Serial No. 347,189. Patent No. 1,348,526, dated Aug. 3, 1920. Divided and this application filed Jan. 2, 1919. Serial No. 269,277. 5 Claims. (Cl. 112—252.)



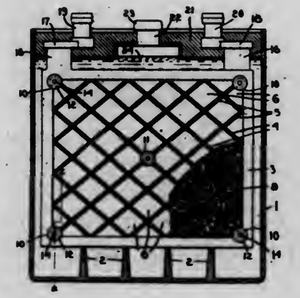
1. The combination in a sewing machine, of stitch-forming instrumentalities, a throat plate, and thread-breaker mechanism carried by the throat plate, said thread breaker mechanism comprising a slide formed with an elongated needle hole; a stationary thread breaker plate located in the path of the looper thread to be broken; and the throat plate having a needle hole with which the needle hole through the slide is registrable; and a thread carrying looper.

1,450,532. AUTOMOBILE FENDER ATTACHMENT. WILLIAM E. WHITE, Citronelle, Ala. Filed Aug. 10, 1922. Serial No. 580,925. 1 Claim. (Cl. 280—153.)



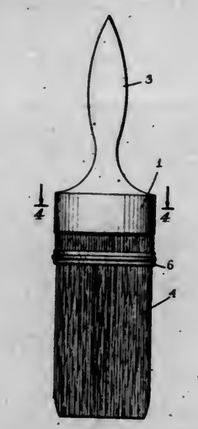
The combination with an automobile fender having a fender iron on the under side thereof, said iron being disposed above an automobile tire carried by a wheel, of a protector for said tire, said protector comprising an angularly shaped member formed from a single piece of material, one flange of said angularly shaped member being substantially vertically disposed and secured to the fender iron at one side thereof, the other flange of said member being spaced from and underlying the fender iron and substantially horizontally disposed and an upwardly and inwardly extending member carried by the outer end of the horizontally disposed flange and engaging the underside of the fender iron, said protector being formed from spring material.

1,450,533. STORAGE BATTERY AND PROCESS OF PRODUCING THE SAME. ALBERT H. WILLIAMS, Worcester, Mass., assignor to Ionite Storage Battery Co., Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1920. Serial No. 374,360. 7 Claims. (Cl. 204—29.)



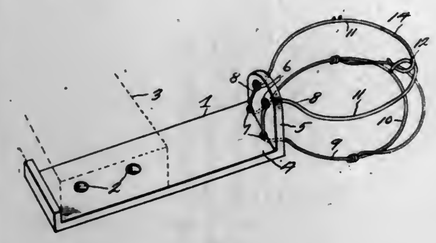
1. A storage battery having a negative plate consisting of a supporting grid the interstices of which are filled with electrically refined homogeneous pure fibrous sponge lead united to said grid by a film of pure lead integrally united to said grid and to said sponge lead.

1,450,534. BRUSH. ERNEST B. WRIGHT, Upper Montclair, N. J., assignor to Hanlon & Goodman Company, New York, N. Y., a Corporation of New York. Filed Dec. 9, 1921. Serial No. 521,087. 3 Claims. (Cl. 15—168.)



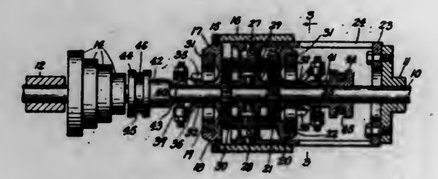
1. In a brush the combination of a ferrule, a bunch of bristles having the upper end portion thereof embedded in hardened cementing material, extending into said ferrule, and a bridle surrounding the bristles and having rearwardly extending arms, said arms having portions thereof extending into the interior of said ferrule and cooperating with the cementing material to fixedly secure the arms to the cemented portion of the bristles.

1,450,535. HAT HOLDER. GULDIN G. YODER, Boyertown, Pa. Filed Apr. 15, 1922. Serial No. 553,088. 2 Claims. (Cl. 45—13.)



1. A hat holder comprising a bracket, means whereby said bracket may be attached to a support, said bracket terminating in a right angularly disposed portion having spaced apertures adjacent apertures in the bracket, a hat receiving loop formed from a single piece of wire, the ends of said wire extending through the adjacent apertures in the right angled portion and the bracket, said wires terminating in segmentally shaped portions in parallel relation to the hat receiving loop, means whereby the ends of the segmentally shaped portions may be detachably connected, and an outwardly extending looped member carried by the first mentioned loop and forming means for receiving a hat visor.

1,450,536. REVERSING MECHANISM FOR DRIVE SHAFTS. GIORDANO ZILOCCKI, Granton, N. J., assignor of thirty per cent to Nicholas Partenope, West New York, N. J. Filed Nov. 1, 1921. Serial No. 511,980. 6 Claims. (Cl. 74—59.)

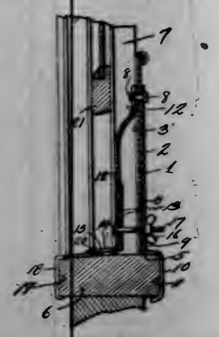


1. A reversing mechanism of the class described comprising a drive shaft, a pulley mounted to rotate freely upon said shaft, said pulley being provided at one side thereof with an annular recess, a disk rotatably mounted on said shaft and provided with a corresponding annular recess, a drum extending into said pulley, gears rotatably mounted in said drum and geared in connection with said pulley and said disk and for rotating said disk in an opposite direction to that of said pulley, and clutch devices secured to said shaft and adapted to operate in the recesses of said pulley and disk respectively for controlling the direction of rotation of said shaft.

1,450,537. WINDOW BOARD. EDWARD A. ADAMS, Trumansburg, N. Y. Filed Feb. 28, 1922. Serial No. 539,830. 1 Claim. (Cl. 98—31.)

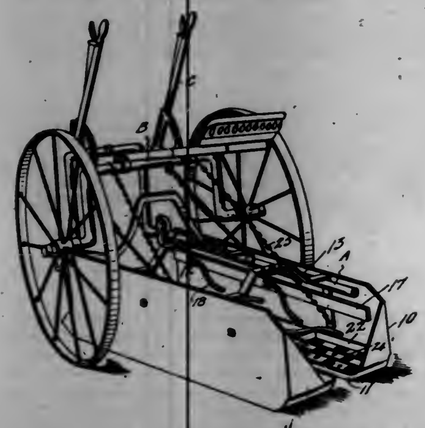
The combination with a window sill, of a window deflector therefor, said deflector comprising slidably engaged vertically disposed deflecting members, each of said deflecting members having secured to its outer face a downwardly extending bracket adapted to engage the inner side of the window sill, downwardly extending spring arms secured to the outer faces of the deflecting members from a point adjacent their upper sides, right angled members connected to the lower ends of said spring arms, right angled sill engaging members adjustably connected to the

right angled members carried by the spring arms and adapted to engage the outer side of the sill, and clamping screws extending through the spring arms adjacent their



lower ends and through the slidably engaged members and forming means whereby the device may be securely clamped on the sill.

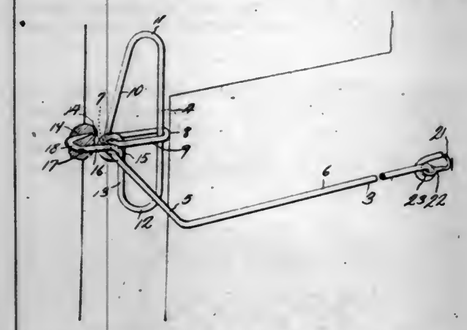
1,450,538. INSECT AND WORM CATCHER. LOUIS E. BAKER, Blum, Tex., assignor of one fourth to A. J. Martin, one-fourth to J. H. Brock, and one-fourth to A. E. Harroun, all of Blum, Tex. Filed July 18, 1922. Serial No. 575,832. 2 Claims. (Cl. 43—133.)



2. In a catcher of the character described, a pair of longitudinally disposed pans, supports connecting and carrying the pans, sides rising from the outer edges of the pans, and horizontal arms carried by said sides and overhanging said pans, said arms being mounted in alternate relation and having their outer ends curved rearwardly, each successive arm rearwardly being longer than its predecessor.

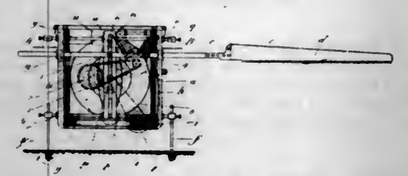
1,450,539. CURTAIN HOLDER. NEWTON J. BISHOP, Washington, D. C. Filed Mar. 8, 1922. Serial No. 542,050. 1 Claim. (Cl. 156—19.)

A curtain bracket formed from a single piece of wire and comprising a curtain supporting portion, the inner end of the curtain supporting portion terminating in an angular portion, an inwardly extending loop carried by the inner end of the angular portion and in parallel relation to the curtain supporting portion, outwardly extending window frame engaging loops carried by the first mentioned loop, the end of one of the frame engaging loops being passed through the inwardly extending loop and bent



around the angular portion, said end terminating in an offset prong adapted to be embedded in the side of a window frame.

1,450,540. SAW FOR SAWING TREES. HANS BONNER, Madulein, Switzerland. Filed Mar. 16, 1921. Serial No. 452,777. 1 Claim. (Cl. 143—68.)



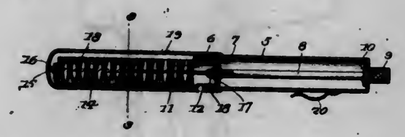
A drag saw machine comprising a saw and means for reciprocating the same and for feeding it to the work transverse to the reciprocation, such means for reciprocation comprising a guide frame or cross head slotted in the direction of feed of said saw, a rotating part having a pin, and a saw carrying bar having a pin, each engaged in the slotted cross-head so that the rotation of said part reciprocates the cross-head and the second pin travels therein during the feeding of the saw.

1,450,541. FISHING TOOL. WILLIAM CASEY, Tulsa, Okla. Filed Mar. 16, 1921. Serial No. 452,703. 1 Claim. (Cl. 294—90.)



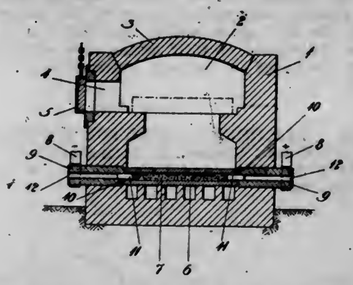
A fishing tool of the character described, comprising a casing section tapering toward its lower end and longitudinally slotted from its lower end to a point adjacent its upper end, a spade-like point formed on the lower end of the casing having the upper end portion of its edges curved outwardly to form a lip, and a series of circumferentially arranged dogs secured to the interior of the casing adjacent the lower or larger end thereof, each dog consisting in a resilient strip of metal arranged longitudinally of the casing and having its lower end secured to the casing and its upper and free end portion curved inwardly with respect to the longitudinal axis of the casing.

1,450,542. ROTARY TOOTHBRUSH. ROY C. FAUST, Deary, Idaho. Filed Feb. 1, 1921. Serial No. 441,647. 1 Claim. (Cl. 15—25.)



In a rotary brush, a handle element comprising a tube closed at one end and internally threaded at its opposite end, a shell of substantially semi-cylindrical shape throughout a portion of its length, an annular portion at the inner end of said shell having external threads to engage the threads of said handle, a rotatable member disposed centrally and longitudinally within said handle and protruding at one end beyond the closed end of said handle, and a brush stem rotatably mounted in the outer end of said shell and detachably connected at its inner end to said rotatable stem.

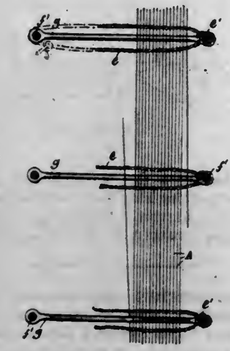
1,450,543. METHOD AND DEVICE FOR THE HEATING OF MATERIAL IN ELECTRIC FURNACES. EUGEN ASSAR ALEXIS GRÖNWALL, Stockholm, Sweden. Filed Sept. 28, 1921. Serial No. 503,792. 8 Claims. (Cl. 204—64.)



4. An electric furnace comprising refractory pipes, auxiliary resistances of carboniferous material disposed in said pipes, a pair of hollow electrodes in contact with said pipes, and an auxiliary electrode in each of said hollow electrodes and extending into said pipes for ensuring a satisfactory transmission of current from the electrode to said auxiliary resistances.

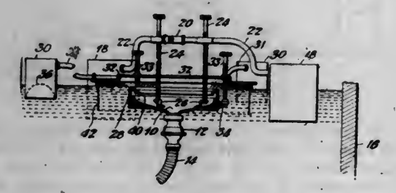
1,450,544. METHOD OF PREPARING WOUND PACKAGES FROM SKEINS. WILLIAM G. HANNAH, Paterson, N. J. Filed June 26, 1922. Serial No. 570,918. 2 Claims. (Cl. 28—21.)

1. The hereindescribed method of preparing a wound package of yarn which consists in first forming a skein of the yarn in which each convolution thereof crosses and recrosses the adjoining neighboring convolutions a given odd number plurality of times, then introducing through the corresponding sheds formed between the crosses flexible attenuated inserts, then placing the skein on a swift adapted to hold the skein distended and attaching each insert to the swift at one side of the skein and then drawing the inserts taut so as to position the convolutions side



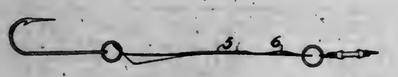
by side from end to end of the yarn, and then, with the skein distended and the inserts still positioned in the skein sheds, forming the wound package while leaving the swift free to rotate.

1,450,545. APPARATUS FOR SEPARATING LIQUIDS OF DIFFERENT DENSITIES. OSCAR E. HANS, Bartlesville, Okla. Filed Apr. 13, 1920. Serial No. 373,589. 16 Claims. (Cl. 210—54.)



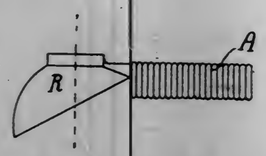
1. An apparatus for separating liquids of different densities, comprising a draw-off tube, means for drawing liquid from the upper portion of a body of liquid into said draw-off tube, and separate means mounted to be maintained adjacent the surface of the body of liquid for preventing an inflow of liquid to said draw-off means when said means reaches a liquid of a definite density.

1,450,546. TROLLING SPOON. JOSEPH HANSEN, Seattle, Wash., assignor to Marine Specialty Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed May 26, 1921. Serial No. 472,732. 6 Claims. (Cl. 43—45.)



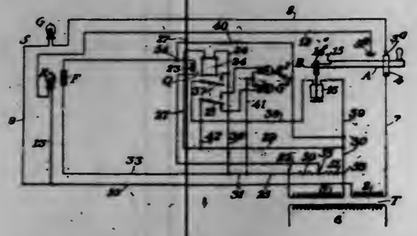
1. A trolling spoon having lateral reaction surfaces at each side of its rear end increasing in width rearwardly and a laterally extending reaction surface connecting the rear ends of said lateral reaction surfaces, the body of the spoon forwardly of said lateral reaction surfaces being bent to give it a slight curvature in a lengthwise direction and also having a trough-like rib extending from between said reaction surfaces forwardly through the central section of its length.

1,450,547. ELASTIC RING-SHAPED HOLDER FOR SMALL LAMPS. FRITZ FERDINAND HEINE, Leipzig, Germany. Filed Feb. 13, 1922. Serial No. 536,322. 1 Claim. (Cl. 240—52.)



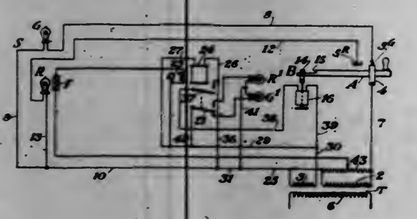
A reflector having a top, a supporting ring attached thereto, said supporting ring being extensible in the plane of its circle and a narrowly wound wire spiral the windings of which are arranged as tangents to the ring circle.

1,450,548. INDICATION MEANS FOR LIGHT SIGNALS. LEMUEL F. HOWARD, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Mar. 2, 1921, Serial No. 449,144. Patent No. 1,429,141, dated Sept. 12, 1922. Divided and this application filed Aug. 11, 1922. Serial No. 581,101. 6 Claims. (Cl. 246—138.)



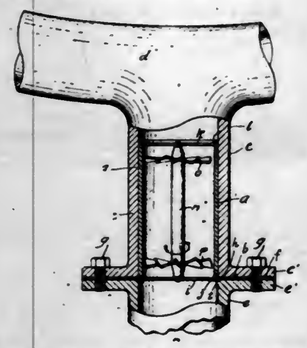
1. In combination, a railway signal comprising a lamp, a cell exposed to the light emitted by said lamp and having the characteristic of varying in electrical resistance with variations in the intensity of light to which it is exposed, a lever for controlling the illumination of said lamp, a lock for governing said lever, a Wheatstone bridge having said cell for one leg, and means included in the bridge member of said bridge for controlling said lever lock.

1,450,549. INDICATION MEANS FOR LIGHT SIGNALS. LEMUEL F. HOWARD, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Mar. 2, 1921, Serial No. 449,144. Patent No. 1,429,141, dated Sept. 12, 1922. Divided and this application filed Aug. 11, 1922. Serial No. 581,102. 7 Claims. (Cl. 246—138.)



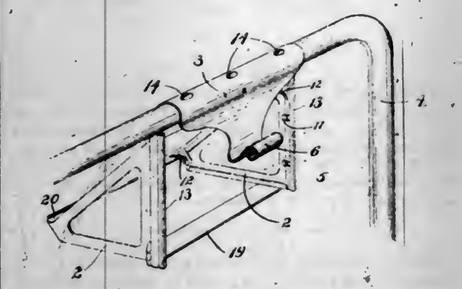
1. In combination, a railway signal comprising a lamp, a cell exposed to the light emitted by said lamp and having the characteristic of varying in electrical resistance with variations in the intensity of light to which it is exposed, a lever for controlling the illumination of said lamp, a lock for governing said lever, a winding for controlling said lock, and a potentiometer circuit network including said cell and said winding.

1,450,550. MIXER FOR GAS ENGINES. GEORGE R. HUDSON, Portland, Oreg. Filed Aug. 11, 1919. Serial No. 316,894. 2 Claims. (Cl. 48—180.)



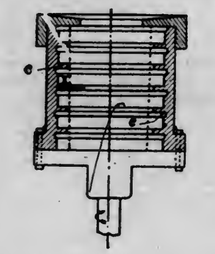
1. In a gas mixer of the character described, a mixing chamber, a shaft axially journalled in said mixing chamber, a fan rigidly attached at each end of the shaft, said fans being spaced apart a substantial distance, thereby providing a relatively large space between them, the lower fan having a pronounced pitch adapted to cause the shaft to be rotated by the gases drawn into the mixing chamber by the intake stroke of the engine, the upper fan having a lesser pitch than the lower one, and in the opposite direction to the latter, being thereby adapted to retard the passage of the gaseous mixture thru the mixing chamber, also serving to agitate the mixture of gases in the said space, and by the churning of said gases at the instant of their escape from said mixing chamber, producing a thorough intermixture of said gases.

1,450,551. ATTACHMENT SHIELD FOR AUTOMOBILE WINDSHIELDS. HERBERT H. ILLCH, New York, N. Y. Filed Feb. 24, 1922. Serial No. 538,893. 4 Claims. (Cl. 296—95.)



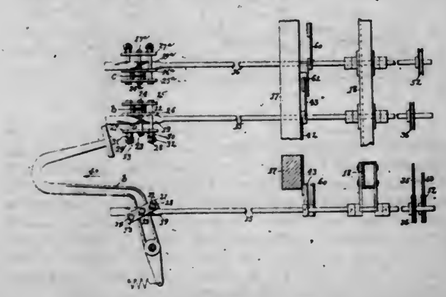
1. In an auxiliary-shield for automobile wind-shields provided with a moisture wiping means, an inclined shielding-panel adapted to be attached to a wind-shield of an automobile, downwardly extending side-panels formed upon the inclined panels, transparent inserts in the side and top panels, resilient members formed upon the edge of the side panel and adapted to engage along the surface of the glass of the wind-shield to remove moisture therefrom, a spring-loop formed upon the inclined panel and providing a means for attaching the device to the upper part of the wind-shield, a handle member to provide a means for sliding same against the surface of the glass of the wind-shield.

1,450,552. PRODUCTION OF HOLLOW METAL CASTINGS. FÉLIX JOMBART, Paris, France, assignor to La Société d'Etudes et de Constructions Metallurgiques, Paris, France. Filed Mar. 23, 1921. Serial No. 454,834. 6 Claims. (Cl. 22—65.)



1. A substantially-cylindrical, hollow mould for casting hollow metal articles by centrifugal force, mounted to rotate about a vertical axis and having the inner moulding surface of its vertical wall divided into a plurality of separate compartments into which the molten metal is forced by centrifugal action.

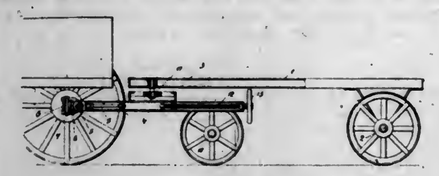
1,450,553. SIGNALING APPARATUS FOR MOTOR VEHICLES. LAURENCE J. KILLIAN, Boston, and EUGENE J. PARKER, Lynn, Mass. Filed June 12, 1922. Serial No. 567,527. 6 Claims. (Cl. 116—36.)



1. The combination with a motor vehicle provided with a foot-operated clutch lever and with a foot-operated brake lever, of signaling devices carried by the vehicle and pivoted to be moved into positions for indicating movement of the vehicle of the right and left, rock-shafts extended longitudinally of the vehicle, and provided with twisted portions means for connecting said rock-shafts with said signaling devices, and means for operatively connecting the twisted portions of said rock-shafts with said clutch and brake levers to permit the latter to be moved longitudinally of said shafts to rock the same.

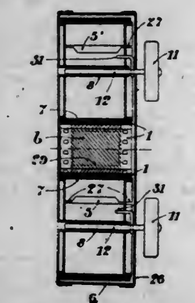
1,450,554. TRAILER. HERMANN OSCAR KREISSLE, Ansbach, Germany, assignor to Ansbacher Motorenfabrik Karl Bachmann Aktiengesellschaft, Ansbach, Germany. Filed Apr. 8, 1921. Serial No. 459,817. 1 Claim. (Cl. 280—33.1.)

Improved device for coupling the trailer with the tractor comprising in combination with the platform of the trailer, a downwardly projecting vertical ball-headed conical bolt, a slidable carriage mounted upon the ball head of said bolt serving as bogie for the platform of the trailer, a supporting frame for connecting said trailer with the tractor, means for hingedly fixing the front end of said frame to the rear axle of the tractor, a horizontal screw spindle in the frame, a hand wheel for operating said spindle, and means for connecting said



bogie with said spindle so that it can be displaced in longitudinal direction upon said supporting frame by the action of the spindle for the purpose to make adjustable the part of the load of the trailer to be transferred upon the driving wheels of the tractor and to enable the trailer to be used as an independent vehicle without auxiliary means.

1,450,555. APPARATUS FOR DIRECT OBSERVATION OF PICTURE FILMS. CHARLES LÉPINE, Torino, Italy, assignor to Pathe Cinema, Anciens Etablissements, Pathe Freres, Paris, France. Original application filed Mar. 22, 1921, Serial No. 454,404. Divided and this application filed Mar. 11, 1922. Serial No. 543,068. 3 Claims. (Cl. 46—37.)



1. A toy apparatus for direct observation of the separate images of a picture film, comprising in combination; a casing and a removable cover for the same, an optical device in one side of the casing, the latter having an aperture in the opposite side, each view being observed through the said optical device in the direction of the aperture, two film carrying drums rotatably mounted in the casing, the width and depth of said casing being substantially equaly to the width of the film and to the diameter of the drum carrying the wound film respectively, and means on the casing for rotating said drums from outside.

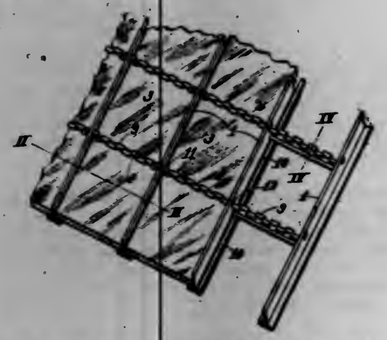
1,450,556. MOP. WILLIAM J. MCKEEVER, Cambridge, Mass. Filed May 23, 1922. Serial No. 563,013. 3 Claims. (Cl. 15—229.)



1. A mop comprising a layer of strands folded upon itself, having a flexible reinforce extending over the fold

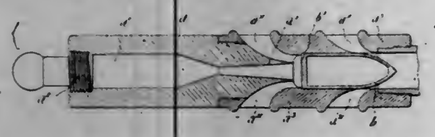
and on both outer faces of the head for some distance back from the folded edge and on the edges and inner faces of the two layers of the folded portion, said reinforce being secured by stitches extending through said reinforce and the embraced layers of strands, and a clamping band of flexible material extending around the reinforced portion of the head and secured thereto by stitches passing through said clamping band and interposed layers of strands and reinforcing material.

1,450,557. SKYLIGHT. HERBERT E. MARKS, Sewickley, Pa. Filed Nov. 22, 1921. Serial No. 516,924. 7 Claims. (Cl. 108—16.)



1. In a roof structure for sky-lights the combination of a series of spaced longitudinal metallic bars of inverted T-shape in cross section, provided with lateral seat portions and a vertical web, transverse binding strips of similar cross section resting freely at their extremities upon and removably supported by the opposing seat portion of a pair of adjacent longitudinal bars and having channels formed by slitting the web portion at intervals and bending alternate tongues formed thereby in opposite directions embracing the edges of the roof sections, the webs of both said bars and strips facing in the same direction.

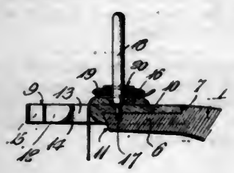
1,450,558. GUN. CHARLES ALPHONSE FRANÇOIS MAZE dit DELAMARE MAZE, Paris, France. Filed Mar. 24, 1921. Serial No. 455,169. 4 Claims. (Cl. 89—1.)



1. A cannon having an explosion chamber and a main bore, a nozzle between the said chamber and the main bore, a chamber located behind the rear portion of the projectile when at rest into which the said nozzle opens and an aperture between the said last mentioned chamber and the outside of the gun for the purposes set forth.

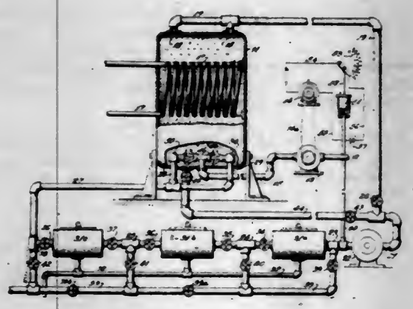
1,450,559. THREAD-TENSIONING DEVICE. EMYGDIO S. MEDEIROS, New Bedford Mass., assignor to New Bedford Tensioning Devices, Inc., New Bedford, Mass., a Corporation. Filed Jan. 9, 1922. Serial No. 527,988. 6 Claims. (Cl. 242—150.)

1. A thread-tensioning device comprising a bifurcated head, between the furcations of which a thread is adapted to pass, said head being formed on its upper face with a raised integral ring-like friction surface against which the thread is drawn, a stationary guide pin rising from the center of said friction surface and having its upper



end directed laterally to form a shoulder, and a weighted annular shoe surrounding said pin for co-action with said friction surface.

1,450,560. SEPARATION AND FILTER SYSTEM AND APPARATUS. CHARLES D. MORTON, New York, N. Y., assignor to Morton Filter Process Co., New York, N. Y., a Corporation of Delaware. Filed Apr. 15, 1920. Serial No. 374,157. 25 Claims. (Cl. 210—183.)



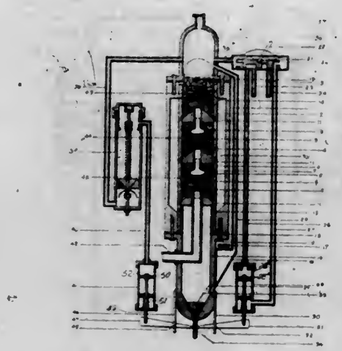
1. The method of treating liquids which consists in producing an intimate mixture of such liquid with an absorptive agent in finely divided form, passing such mixture repeatedly across a filtering medium at velocity sufficient to retain said absorptive agent in suspension and prevent its deposition in substantial quantity on said filtering medium, while allowing clear filtrate to pass through such medium, and progressively adding to the mixture fresh liquid to be treated, at a rate commensurate with the off-flow of filtrate.

6. In a liquid treating system, the combination of a tank; a filter; a circulating system including feed and return passages between said tank and filter, both on the same side of the filtering element thereof; a finely divided solid reagent in said tank, filter and circulating system, adapted to be suspended in and to react upon liquid undergoing treatment therein, a pump serving to circulate said liquid between said tank and filter at a rate sufficient to retain substantially all said finely divided solid in suspension; means serving to subject the liquid in said tank, filter and circulating system to pressure; and means serving to receive filtrate passing through the filtering element of said filter.

1,450,561. MACHINE FOR FILTERING COMPRESSED AIR. CHARLES BERNICE PARKER, Nashville, Tenn. Filed Mar. 13, 1920. Serial No. 365,645. 2 Claims. (Cl. 183—42.)

1. An air filter comprising a casing, a cylinder in and spaced from the casing to form a chamber, said cylinder

having ports leading to the said chamber, apertured cones, cages in the cylinder for supporting the cones, netting

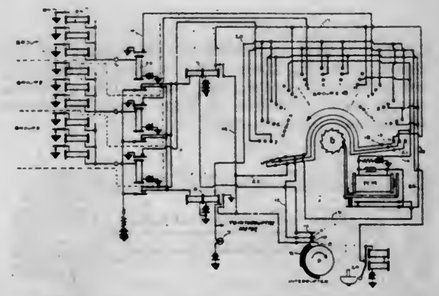


over the cones, means for supplying air to the cones, a collector for foreign substances and means for discharging the foreign substances from the collector.

1,450,562. PROCESS FOR THE TREATMENT OF GASES FROM GAS PRODUCERS. OLIVIER PIETTE, Brussels, Belgium. Filed Feb. 26, 1921. Serial No. 448,196. 7 Claims. (Cl. 23—21.)

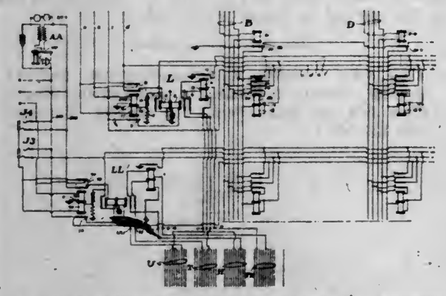
1. A process for the treatment of gases from gas-producers, comprising passing the gases into condensers with spraying water, adjusting the temperature by the circulation of the water in such a manner as to condense only fixed ammoniacal salts and tarry compounds, passing said gases into a closed saturator in which the remaining ammoniacal compounds are converted into ammonium sulphate and the said ammonium sulphate is crystallized, and placing the outlet water from the condensers in contact with air blown under the grate of the gas producer.

1,450,563. TROUBLE-LOCATING DEVICE. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,578. 10 Claims. (Cl. 179—175.)



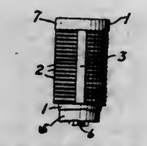
1. In a telephone system, a plurality of pieces of apparatus co-operating to complete telephone calls, a device operating to locate faulty conditions in said apparatus, an operating circuit for said device, and a second circuit for completing a shunt path about said operating means to delay the operation thereof.

1,450,564. TELEPHONE-EXCHANGE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 24, 1918. Serial No. 213,473. 23 Claims. (Cl. 179—27.)



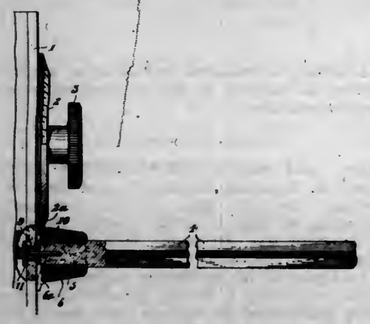
21. In a telephone system, a plurality of telephone lines, operators' positions, link circuits thereat, each link circuit terminating at one end of a manual switch and terminating at its other end in an automatic switch, a rotary impulse machine common to said lines and arranged to transmit impulses in accordance with the designation of any line when calling, and means for causing an automatic switch to extend a selected link circuit to a calling line in response to selective impulse from said impulse machine.

1,450,565. SECONDARY OR STORAGE BATTERY. EDWARD W. SMITH, Philadelphia, Pa. Filed Jan. 30, 1922. Serial No. 532,727. 1 Claim. (Cl. 204—29.)



In a storage battery plate of tubular type the combination of rubber in the form of a slotted tube and of asbestos in the form of paper arranged inside of and lining said tube with active material and a metallic central supporting core also arranged in the tube, whereby rubber in the form stated is protected by the asbestos in the form set forth from the chemical action of the active material.

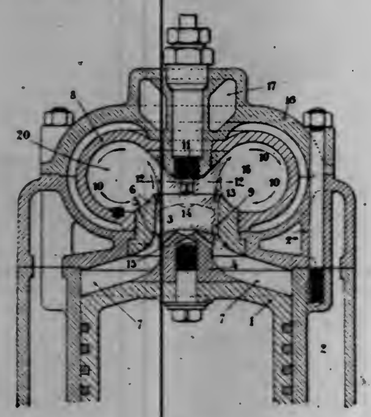
1,450,566. VERNIER ADJUSTER. HARRY T. SMITH, Kansas City, Mo. Filed Dec. 5, 1922. Serial No. 605,130. 2 Claims. (Cl. 74—7.)



2. In apparatus of the class described, wherein a dial plate is rotatably supported on an instrument board, a

vernier adjuster including a relatively long arm, an insulating head upon one end thereof, separable cooperating means carried by the adjuster and instrument board for positioning the head for frictional engagement with the dial plate adjacent the peripheral edge thereof, said cooperating means including an apertured stud carried by the instrument board and an axial pin extension carried by the adjuster to be received therein.

1,450,567. INTERNAL-COMBUSTION ENGINE. EUGÈNE HENRI TARTRAIS, Maisons-Laffitte, France. Filed July 14, 1921. Serial No. 484,807. 3 Claims. (Cl. 123—32.)



1. An internal combustion engine comprising a cylinder, a combustion chamber having the shape of a torus and communicating with said cylinder by a central opening, a fuel atomizer extending into said combustion chamber opposite said central opening and adapted to discharge the fuel in radial directions, a piston working in said cylinder and a projection on the head of the piston, adapted to engage into said central opening, said projection being provided with means affording a restricted passage for the air surrounding the projection, which passage opens into the end face of the projection.

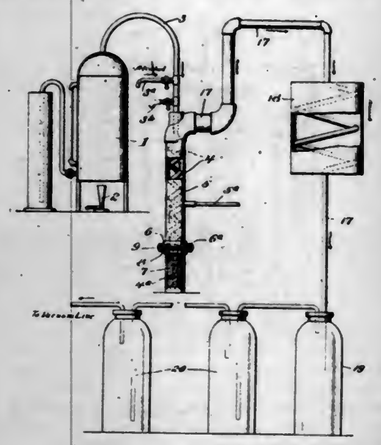
1,450,568. PACKING RING AND METHOD OF MAKING THE SAME. JACOB B. WENZEL, Bloom, Colo. Filed Nov. 19, 1920. Serial No. 425,095. 21 Claims. (Cl. 29—156.6.)



1. A method of tensioning packing rings, consisting in densifying the material by line indentations intersected by spot indentations.

1,450,569. APPARATUS FOR PRODUCING KETONES. ROBERT R. WILLIAMS, Chicago, Ill., and HERBERT L. J. HALLER, Cincinnati, Ohio, assignors, by mesne assignments, to Seth B. Hunt, trustee, Mount Kisco, N. Y. Filed Mar. 31, 1919. Serial No. 286,430. 8 Claims. (Cl. 260—173.)

8. An apparatus for conducting exothermic gas phase reactions, comprising a heating chamber through which outgoing products of the reaction must pass, a reaction chamber having a mass of catalytic material so placed that gases to be treated must pass therethrough before entering the heating chamber, and a pipe passing through such heating chamber and the mass of catalytic material and of sufficient length so that the heat of reaction will vaporize liquids introduced into such pipe for treatment before the material so introduced enters the reaction chamber.

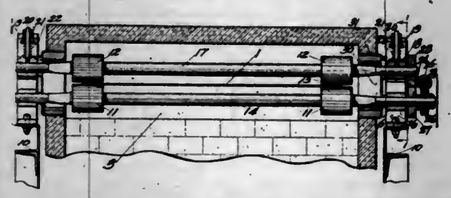


1,450,570. BAG. DAVID ZUKERBERG, Newark, N. J. Filed Feb. 3, 1922. Serial No. 533,747. 3 Claims. (Cl. 150—12.)



1. In a bag, the combination of a body part, a frame at the edge of said body part projecting laterally from the surface thereof, a handle with its end portion laid across said frame and onto the body part, and a holder secured to said body part over said handle end portion and pinching it against the frame.

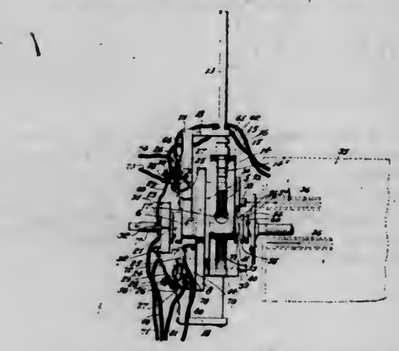
1,450,571. LEER CONVEYER FOR SHEET GLASS. HORACE E. ALLEN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1921. Serial No. 506,663. 12 Claims. (Cl. 198—127.)



1. In a leer for continuous sheet glass, a series of idler rollers for supporting the glass sheet, and a series of means engaging the sheet between certain of the idler rollers at spaced intervals throughout the leer for advancing the sheet over the idler rollers.

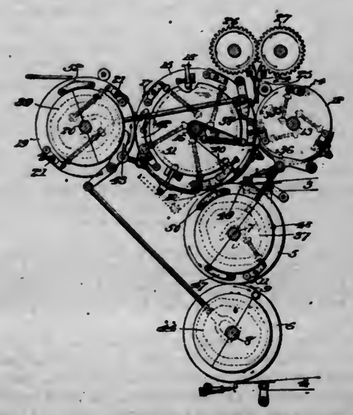
12. In a leer for continuous sheet glass, a series of idler rollers for supporting the glass sheet, a series of idler edge rollers, resting freely on the upper edge portions of the glass sheet to hold the sheet in rolling contact with the supporting rollers, and pairs of driving rolls engaging the edges only of the sheet for advancing the sheet through the leer.

1,450,572. REVERSING AND CONTROL SWITCH. OTTO BAHLS, Long Island City, N. Y., assignor to O. B. Electric Vehicles, Inc., Long Island City, N. Y., a Corporation of New York. Filed Dec. 15, 1921. Serial No. 522,663. 16 Claims. (Cl. 172—179.)



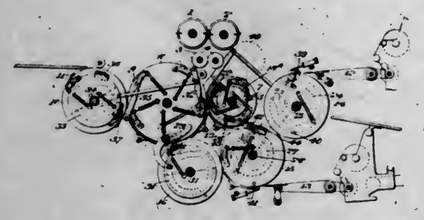
10. In combination with a motor control switch including a part mounted for pivotal movement while maintaining a closed circuit, a variable resistance unit of the carbon pile compression type in the motor circuit, a movable member to coact with the compression means of the resistance unit, a second movable member, said members having coacting cam surfaces, and means operatively connecting the movable switch part to the second named member to actuate the latter in the pivotal movement of the switch part and thereby vary the resistance.

1,450,573. SHEET COLLECTING AND ASSOCIATING MECHANISM. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1921. Serial No. 518,982. 12 Claims. (Cl. 270—60.)



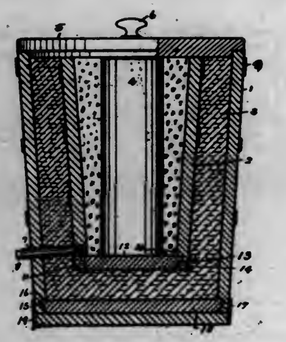
1. Means for collecting main press sheets, two sources of extra sheet supply, and means for feeding the extra sheets alternately from both sources to the sheet collecting means to be associated with the collected main press sheets either as inserts or as covers.

1,450,574. SHEET COLLECTING AND ASSOCIATING MECHANISM. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 18, 1922. Serial No. 530,104. 19 Claims. (Cl. 270—60.)



1. Two coacting sheet collecting and associating cylinders, two extra sheet supply sources, and means for feeding all of the extra sheets when covers from both sources to one of the cylinders or all of the extra sheets when inserts from both sources to the other cylinder.

1,450,575. CABINET. JOSEPH BECKER, Houston, Tex. Filed July 5, 1922. Serial No. 572,990. 1 Claim. (Cl. 217—7.)

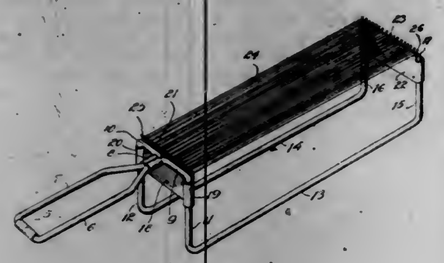


In a cabinet, a tub formed of staves and having an annular inside groove at its lower end, the upper side of the groove forming an abrupt shoulder, and the lower side of the groove converging downwardly, a bottom whose margin is formed to conform to and fit in said groove, a supplemental bottom fitted against the lower ends of the staves and resting against the bottom first mentioned, and a hoop driven onto the supplemental bottom of the tub and being of sufficient width to surround the lower ends of the staves and secure said supplemental bottom in position.

1,450,576. COMB CLEANER. ALBERT J. BENNETT, Chicago, Ill. Filed Dec. 5, 1921. Serial No. 519,825. 2 Claims. (Cl. 132—29.)

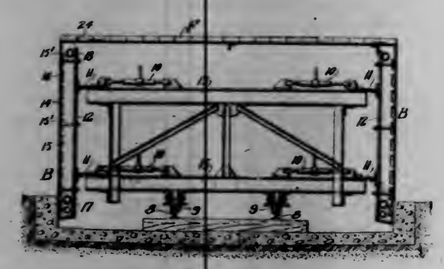
2. In a device of the class described, a frame consisting of two U-shaped members formed of continuous wire so bent that the upper ends of corresponding legs of the U's are connected together by horizontal members integral

with the U's, the wire of one of which horizontal members extends laterally to form a handle, bridges reinforc-



ing said wire at the four corners where the U's connect to the horizontal members and thread carried by said bridges.

1,450,577. METHOD OF AND APPARATUS FOR CONSTRUCTING TUNNELS AND THE LIKE. CHRISTIAN BRYNOLDT, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,528. 9 Claims. (Cl. 25—131.6.)



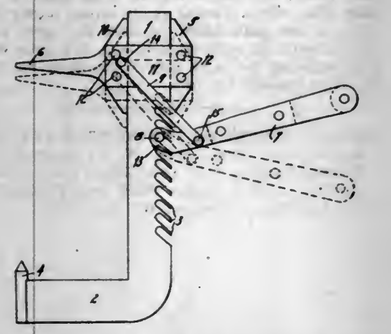
1. The herein described method of constructing walls, tunnels and the like from molten material such as refuse slag which consists in filling and forming the slag against a cooled form.

3. In mold form apparatus for constructing tunnels, walls and the like from hot material the combination of a hollow form, and means for establishing a cooling circulation through the form.

4. In mold form apparatus for constructing tunnels, walls and the like from hot material the combination of a movable hollow form, a movable source of cooling liquid supply, and means for establishing a circulation of the liquid through the form.

1,450,578. VALVE-SPRING COMPRESSOR. GEORGE W. CARY, Springfield, Mass. Filed Mar. 14, 1921. Serial No. 452,151. 4 Claims. (Cl. 29—56.3.)

1. The combination, in a valve-spring compressor, with a serrated shank having an angular extension which is provided with an engaging member for a valve, of a slide mounted on said shank and having a fork to engage a valve spring, an operating handle provided with a non-oscillatory engaging member to contact with said shank, connecting means between said handle and slide, whereby the handle may be moved independently of the slide, said engaging member being the only medium of direct connection between the handle and shank, and capable of entering any of the



serrations of the shank, and said connecting means being connected with said handle forward of said engaging member.

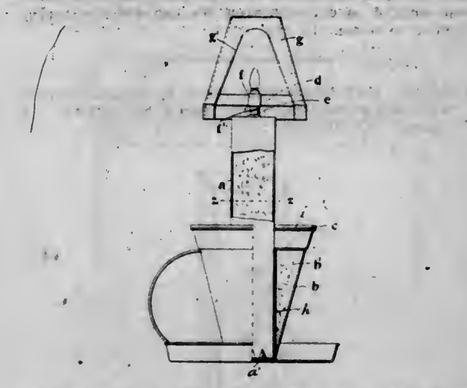
1,450,579. PROJECTILE. CONSTANTIN CHILOWSKY, Paris, France. Filed July 11, 1919. Serial No. 310,181. 8 Claims. (Cl. 102—29.)

2. A projectile having means for stabilizing its flight by initially heating the air in advance of the projectile, comprising a receptacle for combustible, means for igniting such combustible upon the discharge of the projectile, and means, including a restricted duct from said receptacle to the nose of the projectile, for directing the burning gases therefrom forward of the advancing projectile, combined with a combustible in said receptacle adapted on ignition to burn with such rapidity as to provide a burst of flame at the critical instant following the discharge of the projectile from the gun.

1,450,580. OIL LAMP. HENRY COURTEEN, Sunbury-on-Thames, England. Filed May 13, 1921. Serial No. 469,316. 7 Claims. (Cl. 67—35.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

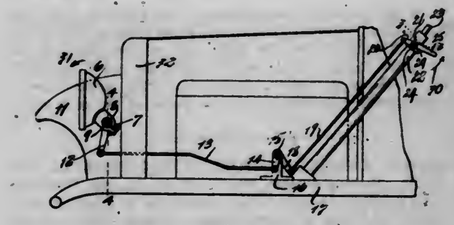
1. A lamp comprising in combination a cylindrical casing in the form of a candle, open at its lower end and closed at its upper end, a burner tube mounted at the upper end of the said casing, a wick within the said burner tube, absorbent material filling the said casing by which the casing is adapted to serve as a reservoir for the liquid illuminant, and a socket adapted for

the removable mounting therein of the lower end of the said casing, said socket being adapted to form an annular space surrounding the lower inserted end of the



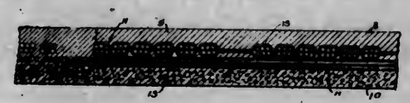
said casing whereby the annular space serves as a filling receptacle for the liquid illuminant on the said casing being inserted within the said socket, substantially as described.

1,450,581. HEADLIGHT. DAVID L. DAVIS, Norwalk, Conn. Filed Mar. 17, 1922. Serial No. 544,459. 1 Claim. (Cl. 240—61.)



In combination with a motor vehicle having fenders, a rod extending transversely of the vehicle, means to secure said rod at each tnd to an adjacent fender, a carrier rotatably supported by said rod, a pair of lamp-casings carried by the rod, means whereby the lamp-casings may be adjusted relatively to said rod, a bracket carried by the steering post of the vehicle, a handle movably supported by said bracket and adapted, when manipulated, to further adjust said lamp casings, friction disks interposed between the handle and the bracket therefor, arranged to hold the handle in adjusted positions, and means to vary the pressure of one disk against the other.

1,450,582. COMPOSITION BOARD. HENRY C. DORN, Milwaukee, Wis. Filed Dec. 20, 1920. Serial No. 433,875. 11 Claims. (Cl. 154—45.9.)



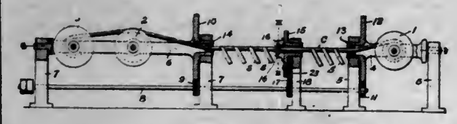
5. A composition board, comprising a thickness of material formed of cement and asbestos, another thickness of material formed of asbestos, plaster Paris and magnesia, and an interposed insulating portion formed of straw or like material imbedded in both thicknesses of material to form an integral board.

1,450,583. FASTENING DEVICE. THOMAS FERRY, Cleveland, Ohio. Filed Jan. 28, 1921. Serial No. 440,768. 1 Claim. (Cl. 85—35.)



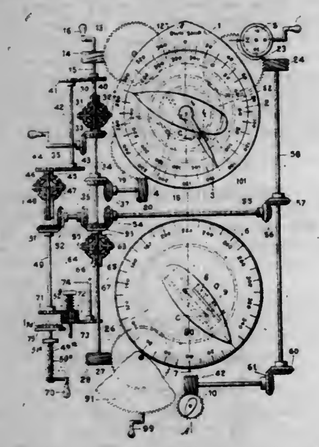
A fastener including a metallic terminal member having an angular shaped base portion provided with inwardly constricted sides, and a cover cap forming a hollow terminal head provided with similarly shaped angular base portion having similarly constricted sides fitted on and interlocking with said constricted sides of said angular base portion of said terminal member.

1,450,584. CABLE-BUILDING MACHINE. HENRY W. FISHER and NORMAN C. DAVIS, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 24, 1922. Serial No. 563,446. 7 Claims. (Cl. 117—36.)



1. In a taping machine the combination of means for causing the article under treatment to advance on straight away course rotating as it advances, means for placing under tension a tape secured to the article under treatment and drawn forward by the article as it advances, and means adapted to engage the surface of the advancing article and by such engagement to oppose torsional stress upon the article, substantially as described.

1,450,585. RANGE AND BEARING KEEPER. HANNIBAL C. FORD, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., New York, N. Y., a Corporation of New York. Filed June 19, 1918. Serial No. 240,883. 43 Claims. (Cl. 235—61.)



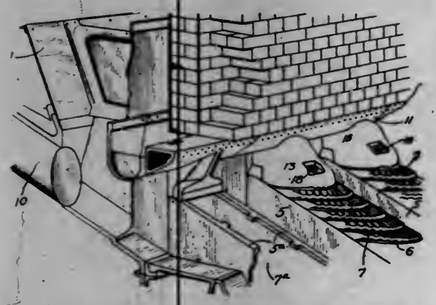
1. In an instrument of the class described, indicating mechanism having a movable element for indicating the course of one moving object, other indicating mechanism having a movable element for indicating the direction

of a second movable object with respect to the line of sight between the objects, means for shifting the movable element of said first named indicating mechanism and for simultaneously shifting the movable element of said second named mechanism when the course of the first object changes and means for shifting the movable element of the second named mechanism independently of the element of said first named mechanism when the course of the second object changes.

8. In an instrument of the class described, mechanism for indicating the course of a moving object, mechanism for indicating the course of a second moving object, mechanism for indicating the direction of the line of sight between said objects and differential gearing connecting said mechanisms.

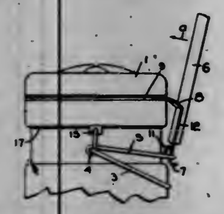
24. In an instrument of the class described, two mechanical vectors, members for resolving each of said vectors into components at right angles to each other, means for adding corresponding components together and means for connecting said vectors for simultaneously changing both vectors or for changing one of said vectors independently of the other.

1,450,586. UNDERFEED STOKER. ROBERT A. FORESMAN, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 6, 1918. Serial No. 232,804. 10 Claims. (Cl. 110—44.)



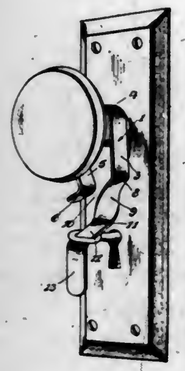
8. In a furnace, the combination with a multiple retort underfeed stoker having alternate fuel feeding retorts and series of fuel supporting twyers extending downwardly and rearwardly from the front wall of the furnace, of a fuel guide member mounted on the upper twyer of each series of twyers at the point of joinder of the twyers with the front wall, said fuel guiding member having a surface sloping rearwardly from the effective front wall surface to the twyers at a greater angle of inclination than that of the series of twyers.

1,450,587. IMPLEMENT FOR OPENING AND SEALING JARS. FREDERIC A. FROST, West Newton, Mass. Filed Oct. 24, 1921. Serial No. 509,872. 3 Claims. (Cl. 81—3.1.)



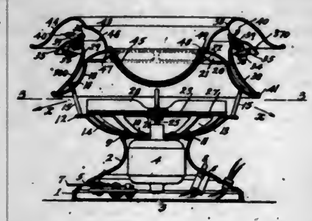
1. A device of the class described comprising a body portion constituting a handle having at one end thereof on one side a fulcrum hook to engage and fulcrum on the wire of a preserve jar, and a cap-loosening prong on the opposite side extending laterally from the body member in a direction opposite to that in which the hook faces and adapted to enter between the cap and the gasket thereby to loosen the cap.

1,450,588. KEY FASTENER. BOYD H. FULLER, Detroit, Mich. Filed Jan. 13, 1922. Serial No. 528,927. 2 Claims. (Cl. 70—65.)



1. A key fastener comprising a knob shank engaging yoke having resiliently connected sides formed to provide a restricted throat at the lower end of the yoke, one of said sides being continued downwardly and provided with a depending locking finger rigid with respect thereto and offset with relation to the plane of the said yoke.

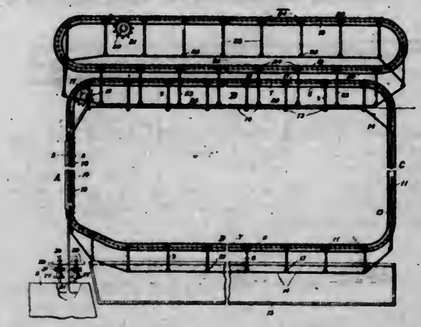
1,450,589. COMBINED HEATING AND COOLING DEVICE. GEORGE GRAFF, New York, N. Y., and WILLIAM A. KENNEDY, Leonia, N. J., assignors to Graff, Washburne & Dunn, a Corporation of New York. Filed Jan. 31, 1921. Serial No. 441,148. 40 Claims. (Cl. 219—39.)



1. In a device of the character described, the combination of a base, an electric motor mounted thereon, a fan driven from the motor, a heating element, and means for directing air and heat outwardly peripherally from the device and preventing a substantial amount of heat and air from rising directly upward from the device.

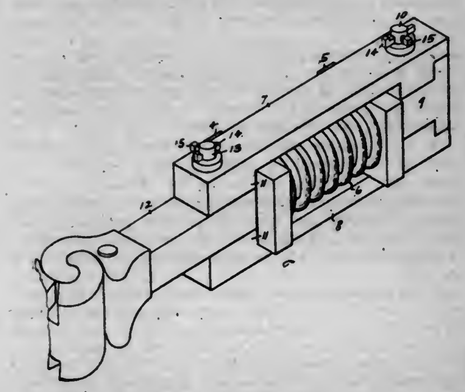
1,450,590. GLASS-DRAWING APPARATUS. WILLIAM GRAY, Lancaster, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed July 10, 1920. Serial No. 395,246. 20 Claims. (Cl. 49—17.)

13. In apparatus for drawing glass, the combination with a reservoir for molten glass, of drawing apparatus located thereover, and upright shafts located on opposite sides of the margins of the sheet being drawn and having outstanding fingers that engage said margins between the drawing apparatus and reservoir, to maintain a predetermined width to said sheet.



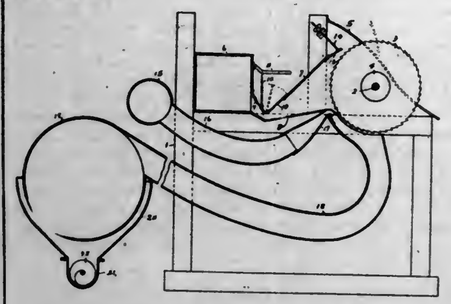
20. In an apparatus for drawing sheet glass, the combination with a reservoir for the melted glass, of means for drawing a continuous sheet of glass vertically therefrom and then bending the sheet into the horizontal plane, comprising two endless series of articulated flat plates, the sheet being guided by one series of plates in its vertical run, and gripped between the two series in its horizontal run.

1,450,591. COUPLING YOKE. WILLIAM F. GREEN, Houston, Tex. Filed Apr. 9, 1921. Serial No. 459,877. 1 Claim. (Cl. 213—68.)



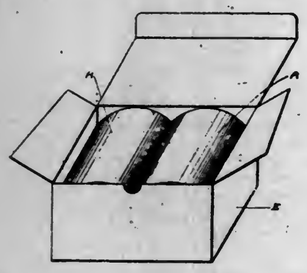
The combination with a draft frame formed of side members spaced apart and whose inner sides have the front and rear draft lugs in transverse alignment, front and rear followers which rest against the front and rear lugs respectively, a draft spring between said followers, a yoke formed of upper and lower clamps, lugs carried by the facing sides of the rear ends of said clamps, a filler block between the rear ends of said clamps and formed with notches to receive said lugs, the forward ends of said clamps being thickened inwardly forming shoulders against which the front follower normally rests, a coupler stem fitted between the forward ends of the yoke clamps, bolts passing upwardly through the front and rear ends of said yoke, said bolts passing through said coupler stem and filler block respectively, keys fitted through the respective ends of said bolts and means for securing said keys against displacement.

1,450,592. LINT-CLEANING ATTACHMENT FOR COTTON GINS. JOHN W. GUYNES, Calvert, Tex. Filed Sept. 8, 1921. Serial No. 498,194. 9 Claims. (Cl. 19—59.)



7. The combination with a gang of gin saws, of a suction flue, a chute leading from the saws and entering said flue, one wall of the chute having an adjustable section adjacent the saws, means for adjusting said section toward and from the saws, said chute being contracted adjacent the flue, a lint flue disposed to receive the cotton from the saws and one side of which is foraminated, a vacuum box surrounding said foraminated side and means for creating air currents through said flues.

1,450,593. PACKAGE FOR INCANDESCENT MANTLES. JOHN P. HARRIS, Lakewood, Ohio. Filed Jan. 28, 1919. Serial No. 273,630. 2 Claims. (Cl. 206—68.)

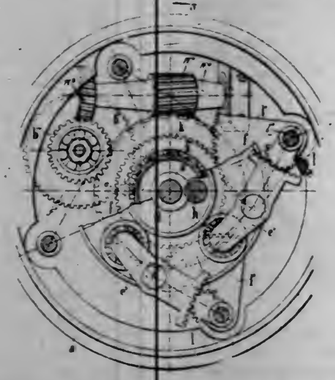


1. A package for incandescent mantles consisting of a series of endless cylindrical casings each having within it an internal lug-supporting ledge and a rectangular box for holding the cylindrical casings and which forms a closure for the upper and lower ends of the cylindrical casings.

1,450,594. PROGRESSIVE CHANGE-SPEED GEAR. CHARLES EDOUARD HENRIOD, Chanelaz-Areuse, Neuchatel, Switzerland. Filed Nov. 16, 1920. Serial No. 424,534. 8 Claims. (Cl. 74—34.)

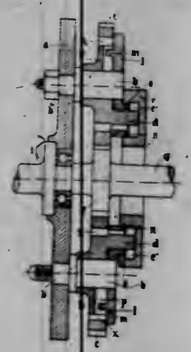
1. In a progressive change-speed mechanism, the combination of a motor flywheel adapted to turn at the speed of the motor; a driven shaft disposed in line with the axis of the flywheel, but independent thereof; a resistance gear on said shaft; a planetary gear carried by the flywheel to revolve bodily therewith and constantly meshing with the resistance gear; a transmission device connected with the planetary gear to normally hold it against axial rotation during its movement with the flywheel, to enable it to positively drive said resistance gear at the same speed as the flywheel; a set of normally-inactive free wheels associated with the transmission device to rotate the same; and a variable-movement de-

vice settable to render the free wheels active in succession for movements of different extents, thereby to rotate the planetary gear idly about its axis through corre-



sponding angular distances and thus produce lost motion between it and the resistance gear, with consequent reduction of speed.

1,450,595. GRADUAL-CHANGE GEAR. CHARLES EDOUARD HENRIOD, Lausanne, Switzerland. Filed Feb. 28, 1922. Serial No. 540,007. 11 Claims. (Cl. 73—34.)



1. In a progressive change-speed mechanism, the combination of a motor flywheel adapted to turn at the speed of the motor; a driven shaft; a resistance gear on said shaft; a planet gear carried by the flywheel to revolve bodily therewith, and comprising a plate rotatably mounted on the flywheel and an externally toothed ring gear loosely encircling said plate and meshing with the resistance gear; a controlling member loosely related to said plate; a finger on the plate; a sleeve on the controlling member adapted to turn around said finger; a member having tracks of variable eccentricity in which said finger and sleeve are adapted to travel; and a coupling device operative by the controlling member for locking the plate and ring gear together.

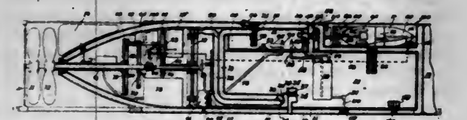
1,450,596. FIREARM. ELLISON D. HENRY, Houston, Tex. Filed Sept. 27, 1921. Serial No. 503,573. 1 Claim. (Cl. 42—49.)

The combination with a gun having a tubular magazine for the reception of cartridges whose outer end is externally threaded of a tubular extension whose inside diameter is the same as the inside diameter of the casing, and one end of which is internally threaded and screwed into the externally threaded end of said magazine, a cap threaded into the other end of said extension, a clamp surrounding said extension and whose upper end is



formed with arcuate fingers which embrace the gun barrel, a set screw threaded through the clamp between said barrel and the extension, and a single coil spring whose outer end rests against said cap and whose other end is adapted to press against the cartridges in the magazine and extension.

,597. TORPEDO. ALEXANDER T. KASLEY, Essing-..., Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylania. Filed July 2, 1921. Serial No. 482,282. 18 Claims. (Cl. 114—20.)



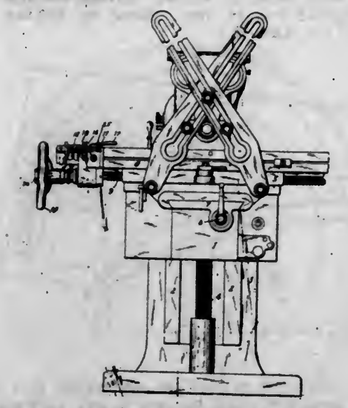
2. In combination, an automobile torpedo having the usual war head, a pilot torpedo leashed to the automobile torpedo and having a harpoon at its forward end, the pilot being designed to travel at a materially lesser depth than the main charge-carrying torpedo and in advance thereof, means for propelling the torpedoes, the arrangement being such that when the torpedoes are sent against a ship equipped with lateral torpedo-proof constructions, the pilot fixes its harpoon in the side of the ship and draws the main charge-carrying torpedo into explosive contact with the unprotected bottom of the ship.

11. In an automobile torpedo, a hollow double-walled shell for the torpedo, a tank containing nitrous oxide under high pressure, and means for circulating water through the double walled shell while the torpedo is in storage whereby the temperature may be maintained reasonably low and the poison nitrous oxide fumes may be absorbed in the water and not permitted to escape into the ship.

18. In combination, an automobile torpedo, a pilot torpedo, a flexible cable secured at one end to the automobile torpedo and at the other end to the pilot torpedo, means for housing the pilot torpedo within the automobile torpedo, propulsion machinery for the automobile torpedo, including gyroscopic mechanism, propulsion machinery for the pilot torpedo including gyroscopic mechanism, means for simultaneously expelling the pilot torpedo from the automobile torpedo and for initiating operation of the propulsion machinery of the pilot torpedo when the automobile torpedo has traveled a predetermined distance whereby the gyroscopic mechanism of the pilot torpedo becomes most effective in maintaining a straight course of the torpedoes at the time the gyroscopic mechanism of the automobile torpedo is losing its effectiveness.

1,450,598. SLIDE-ACTUATING MECHANISM. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Aug. 3, 1918. Serial No. 248,155. 12 Claims. (Cl. 90—21.)

1. In a milling machine, the combination with the work table and its actuating screw, of a motor, a manually operable member, means for interchangeably connecting the motor and said member operatively to the screw,



and means whereby said member will normally remain at rest while the screw is motor actuated.

1,450,599. ARMATURE. JOHN K. LENCKE, Brooklyn, N. Y. Filed June 2, 1920. Serial No. 385,977. 7 Claims. (Cl. 171—206.)

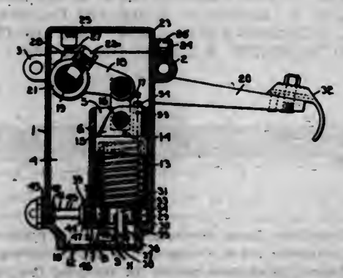


1. An insulating collar to carry a conductor member on its exterior, said collar having a central bore therethrough extending from end to end and having a boss projecting from one end of the collar, said boss being closer along one side to the axis of said bore than the major portion of the inside surface of said bore.

1,450,600. PAPER MADE FROM KAPOK FIBER. AUGUST LENDLE, Forest Hills, N. Y., assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 9, 1920. Serial No. 409,245. 4 Claims. (Cl. 92—3.)

1. As a new article of manufacture a paper made from kapok fiber.

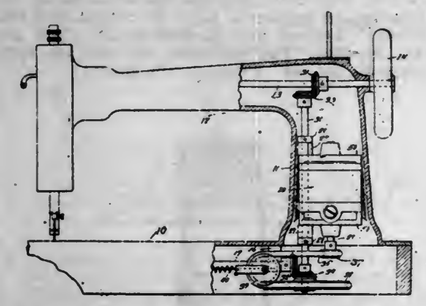
1,450,601. SHOCK ABSORBER. RALPH M. LOVEJOY, Meredith, N. H. Filed Dec. 15, 1919. Serial No. 344,969. 18 Claims. (Cl. 188—88.)



1. A shock absorber comprising a casing having a plurality of fluid containing compartments, a piston in one of said compartments, a valve operating to permit the fluid to flow freely into said piston containing compartment upon movement of the piston in one direction and to prevent the flow of fluid therethrough upon movement of the piston in the opposite direction, and an irregular impeded delivery conduit leading from said fluid containing compartment operating upon movement of the piston in said opposite direction to cause a reflection of the current of fluid passing therethrough upon itself whereby resistance to the flow of the fluid is increased in correlation to the increase in force applied to the piston.

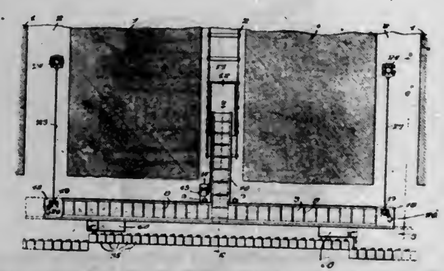
11. A shock absorber comprising a casing having an open top and presenting an enclosed fluid chamber, a cylinder, the lower end of said casing having an aperture therethrough to permit access to the interior of said casing and cylinder, a countersink in the wall of said aperture, an expansible disk closing said aperture and detachable means for covering the top of said casing.

1,450,602. DRIVING MECHANISM FOR SEWING MACHINES. ARTHUR T. MACE, Cleveland, Ohio, assignor to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,233. 12 Claims. (Cl. 112—220.)



1. In a sewing machine, a motor mounted within the head thereof, and a shaft approximately parallel to, but eccentric of the armature shaft of the motor and connected therewith, a needle bar operating mechanism, shuttle operating mechanism, said eccentrically disposed shaft being geared directly to the needle bar operating mechanism and shuttle operating mechanism to drive the same.

1,450,603. MINING APPARATUS. EDMUND C. MORGAN, New York, N. Y. Filed June 17, 1916, Serial No. 104,174. Renewed Feb. 18, 1921. Serial No. 446,426. 58 Claims. (Cl. 262—1.)



1. In mining apparatus, the combination of a multiplicity of props arranged side by side to form a continuous mine support between the floor and roof of a mine chamber, and mechanism arranged to be moved along said line of supports in said mine chamber for manipulating said props individually.

1,450,604. RAZOR. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Feb. 20, 1919. Serial No. 278,147. 1 Claims. (Cl. 30—12.)



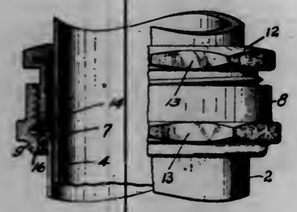
A safety razor comprising a front plate, a back plate, a cutter blade removably clamped between said plates, a tubular socket member having an inturned outer edge and lugs on its inner edge adapted to enter and be riveted into corresponding openings in said back plate, a handle having a ball end adjustably held in said socket, and a spring washer in said socket engaging on said ball to frictionally retain the handle in any relative adjusted position.

1,450,605. CUE TIP. STEPHEN NEMECEK, Chicago, Ill. Substitute for application Serial No. 275,534, filed Feb. 7, 1919. Renewed Mar. 31, 1920, Oct. 11, 1920, and Aug. 20, 1921. This application filed Mar. 20, 1922. Serial No. 545,338. 2 Claims. (Cl. 46—9.)



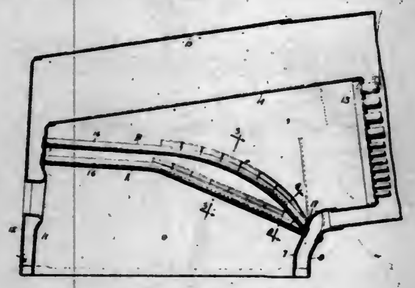
1. A cue tip formed of leather and having an indurating filling in its pores of moisture proof resin, said filling being superficial leaving a central porous core in the interior of the tip.

1,450,606. PIPE UNION. HENRY E. PAINE, San Francisco, Calif. Filed Jul 21, 1920. Serial No. 397,853. 5 Claims. (Cl. 285—165.)



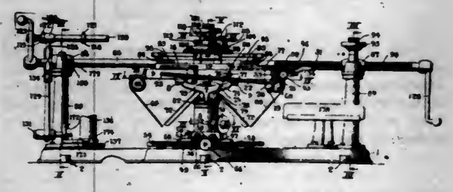
1. A pipe union comprising an external flange on one of the pipes, a socket ring having an internal flange and adapted to be passed over the external flange, a bushing ring interposed between said flanges, a stud ring in threaded engagement with said socket ring, and a gasket interposed between the stud ring and the external flange and adapted to be expanded inwardly when the stud ring is turned in the socket ring.

1,450,607. LOCOMOTIVE FIRE BOX. LE GRAND PARISH, Mountainview, N. J. Original application filed June 4, 1919, Serial No. 301,785. Divided and this application filed Dec. 19, 1921. Serial No. 523,254. 5 Claims. (Cl. 110—87.)



1. In a locomotive fire box the combination of a plurality of circulation tubes arranged in two rows spaced apart, with the tubes of one row in staggered relation with the tubes of the other row, an arch supported on the upper row with a space between the same and a side sheet of the box, and an arch-supported on the lower tubes, comprising wing bricks and center bricks, said arch having an open portion intermediate its sides.

1,450,608. REGISTERING AND SQUARING MACHINE. VERNON ROYLE, Paterson, N. J. Filed Apr. 3, 1919. Serial No. 287,265. 26 Claims. (Cl. 33—78.)



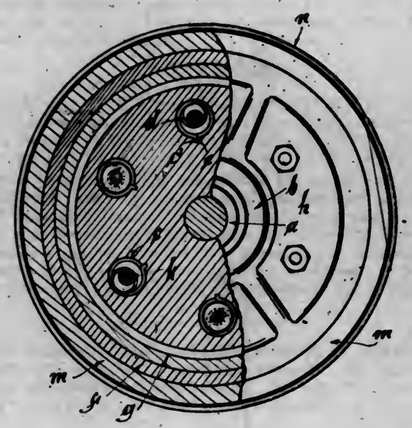
1. An apparatus of the character described comprising, a table for holding the work, mechanism for locating marginal lines on the work, means for rotating the table with respect to the lining mechanism for presenting the work in different positions to the same lining mechanism and means tending to raise and lower the table in its movement from one position to another.

1,450,609. PLATE CLAMP. LOUIS A. SCHMIDT, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1922. Serial No. 551,756. 8 Claims. (Cl. 101—378.)



1. In a plate clamp, the combination of a plate support having a recess, of a clamp in the recess having differently formed faces, and means for rotating the clamp to bring the different faces thereof toward a plate on the support.

1,450,610. VEHICLE WHEEL. MAX SCHOSER, Manchester, England. Filed Mar. 16, 1922. Serial No. 544,285. 3 Claims. (Cl. 152—28.)



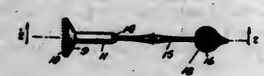
1. Spring wheels comprising, in combination, a disc, side flanges overlapping said disc, through holes in said disc formed with circumferential slots, volute springs in said holes having projections to engage said slots, through bolts connecting the side flanges and passing through the holes in the disc and the innermost convolutions of the springs, and collars on said through bolts, relative movement being possible between said disc and flanges, and one of the relatively moving elements being provided with a tyre and the other relatively moving element being provided with a hub, substantially as described.

1,450,611. FLOWMETER. RUDOLPH WILLIAM SCHROEDER, Dayton, Ohio. Filed Oct. 30, 1919. Serial No. 334,465. 15 Claims. (Cl. 73—167.)



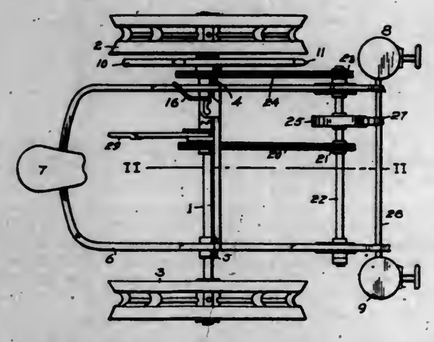
1. A device for indicating the rate of flow of a fluid comprising a gauge glass compartment having an outlet for the fluid, a pipe in said compartment having a longitudinal slot in the wall thereof communicating with said compartment and an inlet and a piston in the tube moved by the fluid along the slot controlling the communication between the pipe and gauge glass compartment.

1,450,612. EAR MANIPULATOR. FREDERICK A. SCHULTZ, Hasbrouck Heights, N. J. Filed May 27, 1921. Serial No. 472,962. 8 Claims. (Cl. 128—297.)



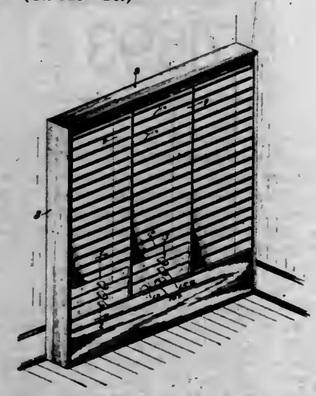
2. In a device of the class described, a rigid handle having headed end portions, and a compressible manipulating member adapted for attachment to one of the headed ends of said handle, said member having its active surfaces formed to provide a plurality of substantially rib-like fins.

1,450,613. CORN PLANTER. JESSE SCOTT, Dayton, Ohio. Filed Apr. 15, 1922. Serial No. 553,173. 2 Claims. (Cl. 111—32.)



2. In combination in a corn planter, a pair of wheels, an axle therefor secured so as to turn with the wheels, a counter shaft forward of the axle, a marking device free to rotate on the axle, a sleeve also free to rotate on the axle, a clutch for connecting the axle to drive the sleeve, a driving connection between the sleeve and counter-shaft, a driving connection between the counter-shaft and the marker, and manually operable means for rotating the sleeve to set the marking device.

1,450,614. FILE AND FILE CABINET FOR LETTERS OR OTHER PAPERS. WILLIS S. SHAFT, Faribault, Minn. Filed Sept. 25, 1920. Serial No. 412,766. 9 Claims. (Cl. 129—16.)



7. The combination with files having open ended pockets for holding letters or other papers, of a cabinet having

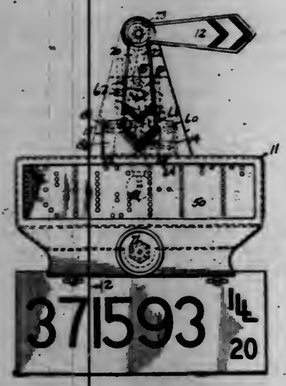
one or more compartments for receiving said pockets with the vertical walls of the compartments spaced apart so as to snugly abut the open ends of the files, when the latter are in the cabinet, vertically spaced horizontal rungs near the front edge of said compartments, and means extending across one end of the files for engaging over said rungs to suspend the files therefrom.

1,450,615. HOPPER-CAR DOOR. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 11, 1922. Serial No. 600,336. 8 Claims. (Cl. 105—250.)



1. A hopper car door consisting of a one-piece casting comprising a hopper closure, hinge butts, reinforcing ribs, and brackets for attaching operating mechanism.

1,450,616. TRAFFIC GUIDE. HAZOR JUDSON SMITH, Springfield, Mass., assignor of one-half to Willard Reid, Chicago, Ill. Filed Apr. 6, 1920. Serial No. 371,719. Renewed Oct. 10, 1922. Serial No. 593,652. 4 Claims. (Cl. 116—39.)

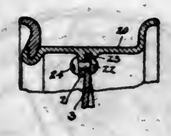


1. In a signal device of the class described two semaphore arms each mechanically connected to a reciprocating perforated plate, a fixed perforated plate superinforced over the two reciprocating perforated plates, the perforations in the three plates so arranged that when either or both semaphores are operated the holes in the three plates are brought into registry.

1,450,617. PROCESS OF PURIFYING MINERAL OILS. JAMES SMITH, Glasgow, Scotland. Filed Mar. 23, 1921. Serial No. 454,731. 1 Claim. (Cl. 196—26.)

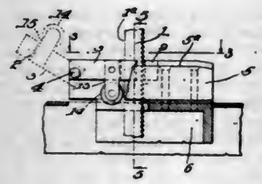
The herein described processof purifying mineral oil consisting in digesting the oil under pressure with absorbent cotton waste saturated with alkali by application of steam heat without contact of the steam with the oil while excluding the air from the oil.

1,450,618. PRESSED-STEEL WHEEL AND METHOD OF MAKING SAME. JOSEPH G. SWAIN, Akron, Ohio. Filed Nov. 20, 1919. Serial No. 339,400. 3 Claims. (Cl. 301—64.)



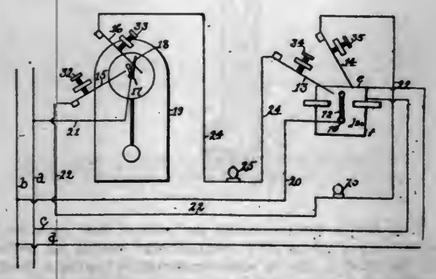
1. In a wheel, the combination of a hub member, a continuous tire-receiving rim member provided with two continuous parallel and adjacent integral flanges on its inner surface, one of said flanges being deeper than its companion flange, and a disk mounted on said hub and held in engagement with the inner surface of said deeper flange by the clamping action of said flange of lesser depth.

1,450,619. BAND-SAW GUIDE. JAY W. VAUGHAN, Chicago, Ill. Original application filed May 26, 1919, Serial No. 299,718. Divided and this application filed Sept. 22, 1921. Serial No. 502,501. 4 Claims. (Cl. 143—165.)



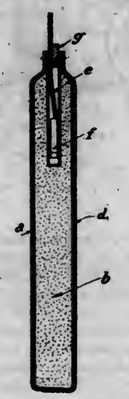
1. In a band saw machine, a guide for the saw blade comprising a block having a vertical slot at one end to accommodate said blade and carried by a horizontal pivot at a point back of the blade, together with a mount for said block formed with a rearwardly opening space and having a part which extends rearwardly beyond the opening at one side supporting the pivot of the guide block, said block being dimensioned to lie horizontally in said space in its saw-guiding position but to stand back from the opening when swung about its pivot to permit entering or withdrawing the saw blade.

1,450,620. SYSTEM FOR REGULATING FREQUENCY. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, Ashland, Mass., a Corporation of Maine. Filed Dec. 13, 1918. Serial No. 266,520. 10 Claims. (Cl. 58—24.)



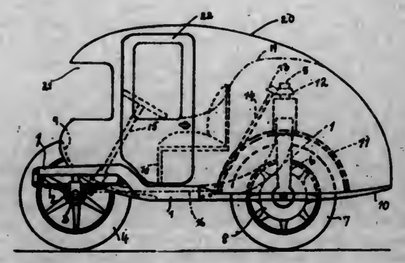
1. In an alternating current system, in combination, an alternating current circuit, a synchronous motor connected with said circuit, a circuit controller having a movable member actuated by said motor, a second circuit controller actuated by a standard time keeper, an electric circuit governed by said circuit controllers, and a device in the last mentioned circuit governed by said circuit controllers for indicating the accumulated error in the integrated frequency of the current in the alternating current circuit.

1,450,621. LIQUID-AIR BLAST CARTRIDGE. GUILLAUME WEBER, Hayange, Lorraine, France, assignor to Societe les Petits Fils de Francois de Wendel et Cie., Paris, France. Filed Sept. 27, 1919. Serial No. 326,976. 2 Claims. (Cl. 102—6.)



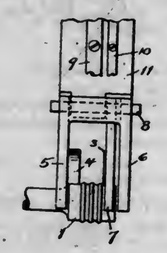
1. An air liquid blast cartridge comprising a pervious flexible envelope made of thin paper wound in several concentric layers and folded down at the ends, and a blasting charge in said envelope adapted to be impregnated with liquid air entering the cartridge at both extremities thereof and along the outer generatrix of the last layer.

1,450,622. THREE-WHEELED AUTOMOBILE. EAWIN WESNIGK, Berlin, Germany. Filed Jan. 17, 1922. Serial No. 529,980. 4 Claims. (Cl. 180—26.)



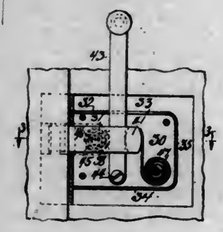
1. A three wheeled automobile comprising, in combination, two fore wheels; a hind wheel; a body of stream line or drop form, having its broader part forward and its narrow pointed part at the rear; a seat arranged in the broad fore part of the body; and a motor driving the automobile, said motor, its accessories, and the hind wheel being disposed within and below the pointed rear part of said body.

1,450,623. WEFT-REPLENISHING MECHANISM FOR LOOMS. JOHN WHITTAKER, Wilpshire, and RICHARD BRADSHAW and JOSEPH BRIGGS, Rishton, near Blackburn, England; Millicon Briggs, administratrix of said Joseph Briggs, deceased, assignors, by direct and mesne assignments, to The Whittaker Loom Company Limited, Preston, Lancaster County, England. Filed June 17, 1920. Serial No. 389,747. 2 Claims. (Cl. 139—85.)



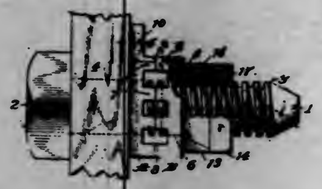
1. In weft-replenishing mechanism for looms, a cop magazine of the type described, having three pivoted jaws of which the first bears on the end of the heel of the skewer or pirn, the second bears on the cylindrical portion of the heel close to that same end of the heel while the third jaw bears upon the skewer or pirn beyond the heel, one of the two last-named jaws being movable independently of the other two.

1,450,624. SELF-ADJUSTING DOOR LATCH. BENJAMIN A. WOINA, South River, N. J., assignor of one-half to Arvid L. Johnson, New York, N. Y. Filed June 21, 1920. Serial No. 390,338. 4 Claims. (Cl. 292—173.)



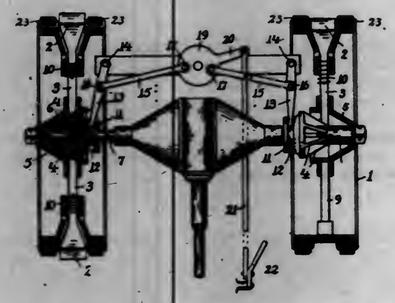
1. In a latch for a door the combination of a bolt having a nose with an inclined bearing face, a lock pillow for the door, a striker fastened to the lock pillar with a clearance space for said nose, said striker having an inclined bearing face in the path of and adapted to coact with the inclined bearing face of the nose, said faces bearing against each other when the bolt is moved to its closed position, means to move the bolt to a locked or unlocked position and tension means to maintain the inclined bearing face of the nose against the inclined bearing face of the striker when the bolt is moved to lock it with the striker, said means tending to slide the nose of the bolt on the striker and thereby swing the door to its closed position, said clearance space between the nose of the bolt and the lock pillar enabling the door to swing and take up the lost motion of its parts.

1,450,625. WASHER. WILLIAM S. ALEXANDER, Elsmere, Del. Filed June 23, 1920. Serial No. 391,120. 3 Claims. (Cl. 85—50.)



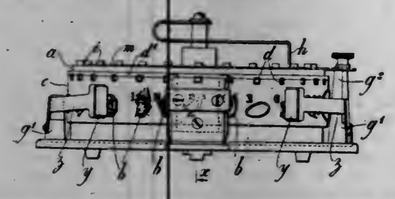
1. A washer formed of two members, ribs formed on one face of each member, the ribs of one member having transversely extending grooves and the ribs of the other member having transversely extending tongues adapted to be received in the grooves.

1,450,626. VARIABLE TRACTOR WHEEL. LEONARD ATWOOD, Boston, Mass. Filed Aug. 6, 1920. Serial No. 401,635. 2 Claims. (Cl. 301—46.)



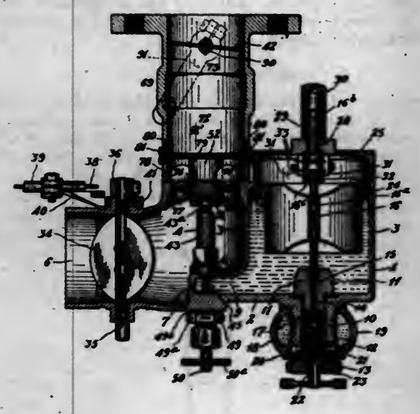
1. A wheel having radially movable spades, a conical hub, a rim, spokes rigidly connecting said rim and hub, a cylindrical sleeve within said hub, a plurality of wedges equal in number of said spades and rigidly connected but slidable on said sleeve, shanks each carrying one of said spades and yieldingly pressed against the slanting edge of one of said wedges, and means for sliding said wedges along said sleeve for forcing said spades radially outward.

1,450,627. TYPEWRITER. PERCY HENRY DARNLEY, London, England, assignor of one-half to Barnett Richards, London, England. Filed Sept. 23, 1921. Serial No. 502,710. 5 Claims. (Cl. 197—46.)



1. A typewriter comprising a circular rotatable member, printing elements carried by said member around the periphery thereof, a circular series of index elements on the said rotary member, a lever freely movable with respect to the rotary member and adapted to engage any one of the index elements whereby to actuate the rotary member and bring a printing element to printing position, and means for operating the printing element.

1,450,628. CARBURETOR. JOHN M. FLANNERY, Detroit, Mich. Filed Apr. 7, 1922. Serial No. 550,491. 19 Claims. (Cl. 261—41.)



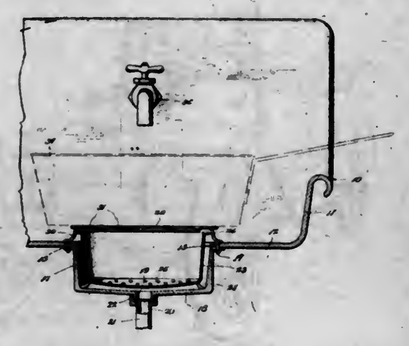
1. In a carburetor, the combination of a supply chamber, an air intake, an outlet conduit, a pair of mixing tubes each communicating with said intake and said conduit, a nozzle disposed in each said mixing tube connected with said chamber, a throttle for controlling the flow of carbureted air through said conduit, a valve for controlling the flow of carbureted air from one of said mixing tubes into said conduit, means for operating said throttle and said valve, and a valve mechanism for admitting air into one of said tubes independently of said communication of the latter tube with said intake.

13. In a carburetor, the combination of a mixing tube of relatively small capacity having a fuel nozzle arranged to supply carbureted air for ordinary driving speeds, a mixing tube of relatively large capacity having a fuel nozzle, said relatively large mixing tube being coordinated with said first mentioned mixing tube to supply carbureted air supplemental to that supplied thereby for higher driving speeds, an outlet to which said mixing tubes are connected, means for supplying fuel to said nozzles, a valve for controlling the flow of carbureted air from said relatively large mixing tube, means for controlling the flow of carbureted air from said tubes through said outlet, said control means being disposed and arranged to permit substantially equal portions of the combustible mixture to pass to either side thereof when either the mixing tube of relatively small capacity or both mixing tubes are supplying carbureted air to said outlet, and connections between said control means and said valve, whereby the latter is positively operated.

19. A carburetor having in combination an air intake, a mixture outlet, a plurality of mixing tubes of different capacities communicating with said intake and said outlet, a plurality of air admitting means controlling the admission of air to one of said mixing tubes under different operating conditions, a fuel chamber, fuel inlet means in each mixing tube and communicating with said fuel chamber, means controlling the action of said mixing tubes so that said tubes are brought into action successively, and means controlling the flow through said mixture outlet arranged to divide the mixture passing therethrough in equal parts under all conditions of operation.

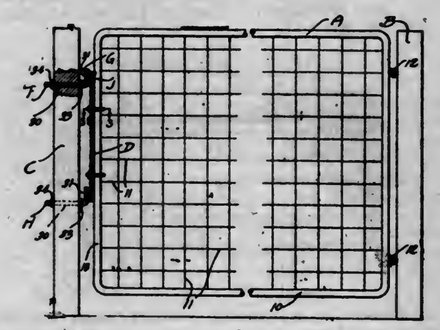
1,450,629. DRAINER FOR SINKS. LILLY S. GRIGG, Long Beach, Calif. Filed Aug. 4, 1922. Serial No. 579,725. 2 Claims. (Cl. 4—35.)

1. The combination with a sink having a large opening in its bottom; of a basin rigidly secured under said bottom so as to register with said opening and adapted to be connected with a drain pipe, a colander fitting loosely in said basin and having its top edge raised above the



bottom of the sink, and a cover for said colander adapted to be supported upon the bottom of the sink so as to be slightly raised above the top edge of said colander.

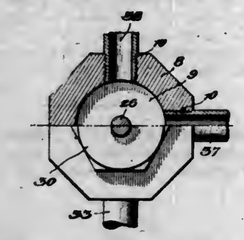
1,450,630. GATE-FASTENING DEVICE. JAMES HARRIS, Ponoka, Alberta, Canada. Filed June 2, 1921. Serial No. 474,473. 13 Claims. (Cl. 292—189.)



1. In a fastening device, the combination with a closure member, of a stationary support fixed adjacent said closure member, means on said closure member for engaging said stationary support, and gravity operated locking means pivoted on said stationary support, and having a portion thereof normally projecting from a side support, and foldable within said support upon placing of said first mentioned means thereover, said projecting portion of the pivoted means adapted by gravity to automatically assume its normal position for retaining said first mentioned means in locked position on the support.

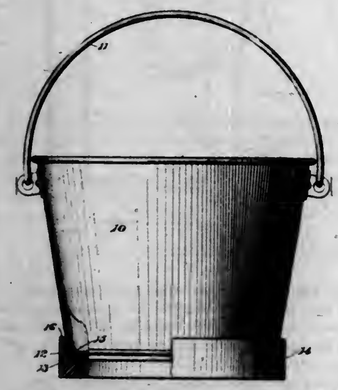
1,450,631. BURNER. JAMES F. HIGGINS, New Orleans, La., assignor to The Rogers-Higgins Co., Inc., New Orleans, La., a Corporation of Louisiana. Filed May 28, 1920. Serial No. 385,021. 5 Claims. (Cl. 158—74.)

2. In a burner, an outer tubular casing, a closing-cap on the discharge end of said casing having a central opening, an inner tubular casing spaced from said outer casing, and a nozzle on said inner casing having a tip portion extending into said opening, there being a mixing-chamber in said tip portion, a passage leading concentrically from the interior of the nozzle to said mixing-chamber, and passages leading from the space between the two casings to said mixing-chamber, said



passages being straight and located eccentrically with respect to said chamber.

1,450,632. BUCKET PROTECTOR. EUGENE L. HORTON, San Francisco, Calif. Filed June 28, 1922. Serial No. 571,537. 2 Claims. (Cl. 220—69.)



1. In combination with a bucket having an annular flange projecting downwardly from its bottom and an annular projection circumscribing said flange, of an annular cushion member of resilient material, said member being grooved adjacent its top edge for the reception of said flange and said projection, and an upwardly extending flange portion on said cushion member adapted to circumscribe the outer surface of the bucket and yieldably hold the cushion member in position.

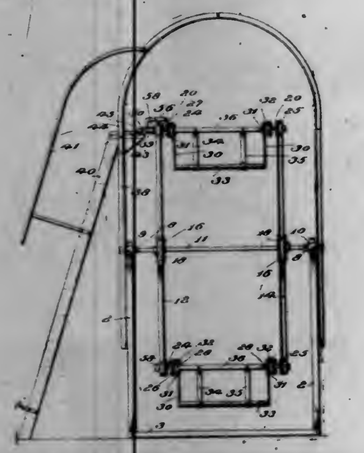
1,450,633. SELF-WATERING FLOWERPOT. WILLARD W. HUDSON, Shelbyville, Ill. Filed May 14, 1921. Serial No. 469,543. 1 Claim. (Cl. 47—19.)



A self-watering flower vase or pot including a hollow base member having a reduced hollow pedestal with

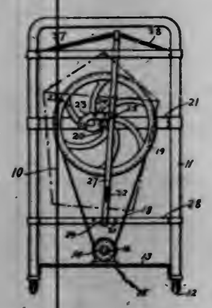
interior screw threads at the mouth thereof, a pot having a concentric screw threaded opening adapted to aline with the opening of the pedestal and to rest thereon, and a hollow tube having screw threads to engage the hollow portion of the pedestal and pot to hold the members together and providing means for supplying water from the base to the pot.

1,450,634. AMUSEMENT DEVICE. OMER B. HUNTER, Chickasha, Okla. Filed Dec. 15, 1921. Serial No. 522,530. 8 Claims. (Cl. 46—27.)



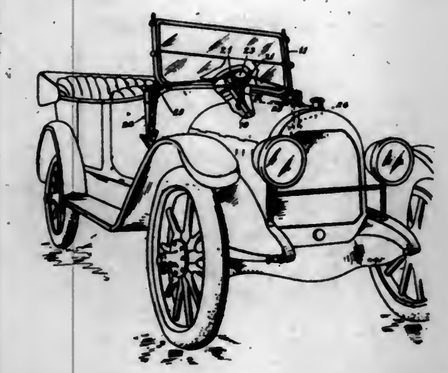
2. A device of the class described comprising a support, a frame movably journaled on a horizontal axis on said support, a plurality of seats on said frame adapted to travel around said axis and in said travel to approach sufficiently close to the ground so that the occupants thereof can propel said frame by means of their feet on the ground.

1,450,635. CRADLE. WOJCIECH LACKI, Chicago, Ill. Filed May 12, 1922. Serial No. 560,421. 2 Claims. (Cl. 5—57.)



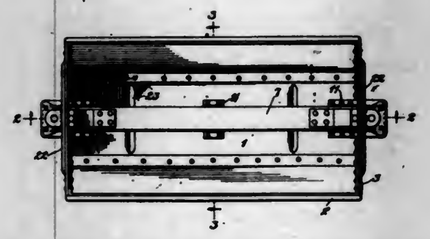
1. A rocking cradle of the class described, comprising a cradle body, a frame from which said cradle body is suspended, a projecting pin on one end of said cradle body, a slotted operating rod adjustably connected with its lower end to a cross bar of said frame, said pin extended through the slot in said rod, a drive wheel, means for rotating said wheel from a motor, a link secured to one of the spokes of said wheel and to said rod intermediate its ends, and springs secured to the upper end of said rod and to the side posts of said frame.

1,450,636. TRAFFIC SIGNAL. ADAM LATSHAW, Dubois, Pa. Filed Dec. 9, 1920. Serial No. 429,380. 2 Claims. (Cl. 74—39.)



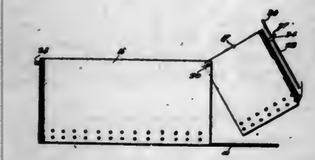
1. A traffic signal including a post, mating bearing plates mounted upon the post, one of said plates being provided with a quadrant, and a control lever journaled between said plates to cooperate with said quadrant and arranged for operative connection with a signaling member whereby the lever may be rocked for swinging the member.

1,450,637. MINE CAR. MICHAEL EARL LOHR, Johnstown, Pa. Filed Feb. 16, 1922. Serial No. 536,083. 3 Claims. (Cl. 105—364.)



3. A steel mine car having a removable center beam of hollow construction, and separate fillers of wood inserted in said beam, said fillers being spaced apart centrally of the car.

1,450,638. WASHBOILER. JOHN P. METTEL, Dubuque, Iowa. Filed Jan. 3, 1922. Serial No. 526,780. 1 Claim. (Cl. 68—30.)



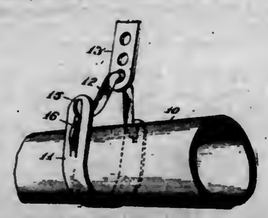
The combination with a wash boiler, of an inner receptacle composed of two sections abutting on a vertical line spaced from one end and hinged at the upper edges to open at the lower side thereof, a handle for each section at the outer end thereof, and means operable by one of the handles for locking the sections against relative movement.

1,450,639. DENTAL IMPRESSION TRAY. GEORGE S. MONSON, St. Paul, Minn. Filed July 31, 1920. Serial No. 400,325. 4 Claims. (Cl. 32—6.)



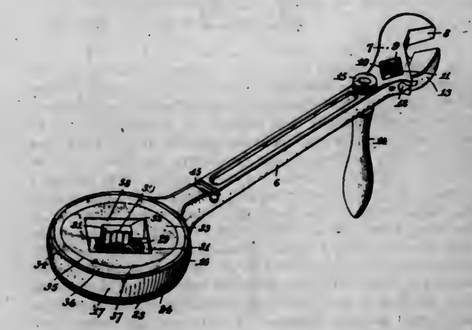
1. A dental-impression tray having a concave upper surface with a centrally arranged raised portion and adapted to receive a plastic material in which the impression of the roof of the mouth is formed, one end of said tray having a handle on the underside thereof and the under surface of said tray having a concave finger seat at the end of said handle and forming substantially a continuation of the surface thereof, said finger seat being adapted to receive the thumb or finger and insure uniform upward pressure at all points on the walls of the tray.

1,450,640. PIPE-SUPPORTING MEANS. CHARLES ERWIN NORMAN, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,790. 4 Claims. (Cl. 248—31.)



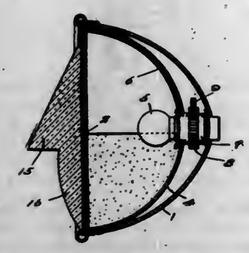
2. In a device of the class described, the combination of two downwardly diverging arms, means for supporting said arms, hooks on the lower ends of said arms respectively, a pipe-supporting member in the form of a loop the arms of which are provided with openings for receiving said hooks, one of said openings being of a size to prevent disengagement of one of said hooks therefrom by a straight lateral pull thereon, and a spring tongue carried by the pipe supporting member adjacent to the other opening adapted yieldingly to prevent disengagement of the other hook.

1,450,641. WRENCH. STEPHEN J. OGRABISZ, Buffalo, N. Y. Filed Apr. 16, 1921. Serial No. 461,850. 4 Claims. (Cl. 81—60.)



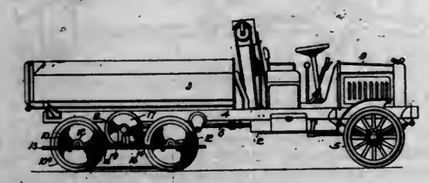
1. A wrench comprising a shank and a dished head having a cylindrical wall and a flat end wall provided with an axial opening, an actuating-disk within said dished head lying against the inner side of said end wall and having a boss extending through said axial opening, a manipulating-disk lying against the outer side of said end wall and secured to the boss of said actuating-disk, a block fitting into said head and having a socket and radial grooves therein, and clamping jaws co-acting with said actuating-disk and arranged for movement within said radial grooves.

1,450,642. AUTOMOBILE HEADLIGHT. WILLIAM D. OTT and HENRY FRANCIS GRIFFIN, Riverside, Iowa. Filed Mar. 25, 1921. Serial No. 455,586. 3 Claims. (Cl. 240—41.)



2. A vehicle headlight comprising a casing, a stationary reflector supported in said casing, a movable reflector section rotatable in front of said stationary reflector and adapted to cover the upper or the lower portion thereof, said stationary reflector having its lower portion tinted, a lens supported at the front of said casing and having its upper part formed as a base-down single prism, and its lower part formed as a condenser, said prism presenting a quadrilateral front face sloping downwardly and forwardly and triangular side faces sloping downwardly and laterally, the outer surface of said prims being ground for the purpose of diffusing the light.

1,450,643. POWER TRANSMISSION FOR MOTOR VEHICLES. EDWIN H. PLATT, Denver, Colo., assignor of one-half to Edwin F. Platt, Portland, Oreg. Filed Mar. 9, 1921. Serial No. 450,944. 12 Claims. (Cl. 180—9.1.)



1. In a motor vehicle, the combination with the vehicle chassis, of frames connected at opposite sides thereof, traction wheels having drum faces of smaller diameter than their tread circles, mounted one before the other, on said frames, endless belts carried on said drum faces, rotary drive wheels frictionally engaging with the upper stretches of the belts, and a motor on the vehicle in driving connection with the drive wheels.

1,450,644. WIRE FASTENER FOR FENCEPOSTS. FRED PRACHT, Williamsville, Mo. Filed Apr. 4, 1921. Serial No. 458,283. 2 Claims. (Cl. 256—52.)

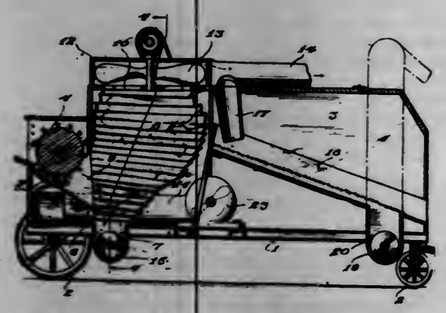
1. In a device of the character described the combination with a fence post provided with spaced openings, of a plate secured to one side of said fence post adjacent the bottom thereof, a retaining member pivotally mounted on said plate at a point spaced from the edges thereof, means

carried by said retaining member adapted to pass through said openings in said fence post, means to fasten said last mentioned means and thereby maintain said retaining



member in rigid relation to said fence post, and said plate being adapted to limit movement of said retaining member in one direction and maintain the same in spaced relation to said fence post substantially as described.

1,450,645. SEPARATOR. DAVID C. RUTH, Halstead, Kans., assignor of one-half to S. Ella L. Ruth, Halstead, Kans. Filed July 10, 1922. Serial No. 573,945. 1 Claim. (Cl. 130—17.)



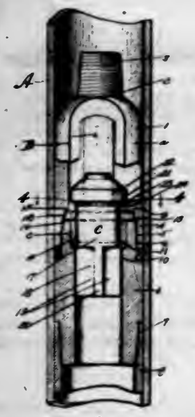
A grain separator comprising in combination with a threshing mechanism, an air trunk disposed below the threshing mechanism, a grain conveyer arranged in juxtaposition to said air trunk whereby the trunk will deliver a blast across the top of the said conveyer, a separating chamber rising from said conveyer and having its bottom and front side in direct communication therewith and with the threshing mechanism and air trunk, said chamber expanding upwardly and having an outlet opening through its upper end, annular deflecting ribs extending entirely around the walls of said chamber from the bottom to the top of the same, a fan casing covering the upper end of the separating chamber and in direct communication with the chamber through the upper end thereof, a suction fan mounted within said fan casing, and a stacking chute leading from said fan casing.

1,456,646. BASEBALL BAT. FRANK SADENWATER, Michigan City, Ind. Filed May 1, 1920. Serial No. 378,062. 1 Claim. (Cl. 46—4.)

A ball bat comprising flat, parallel laminations of wood having the grain extending longitudinally of the bat and alternating laminations of wood having the grain extending crosswise of the bat, such laminations being joined by a bonding agent.

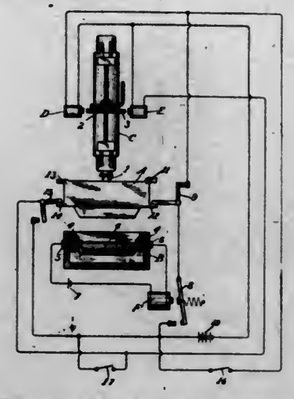


1,450,647. DEEP-WELL PUMP. HENRY SCHWAB, Bicknell, Calif. Filed Jan. 10, 1922. Serial No. 528,288. 1 Claim. (Cl. 251—127.)



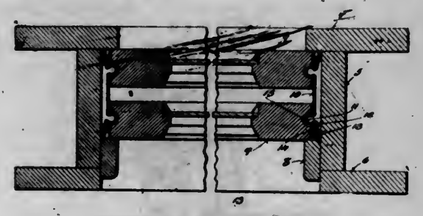
A valve structure for oil well pumps including a body member having an externally tapered and threaded portion at its upper end, a valve cage member having an interiorly tapered and threaded ring portion for engaging with the externally tapered and threaded portion of the body, and the said ring portion of the cage being provided with an interior stepped shoulder, a detachable valve housing having an annular exterior rib adapted to be engaged by the upper edge of the body and the stepped shoulder of the ring thereby to be firmly held in place, and the upper edge of said valve housing constituting a valve seat, the inner edge of which is cut away, and a piston valve including a body fluted at one end and having a disc-like head portion at the other, the underside of the said disc-like head portion adapted to rest on the valve seat formed at the upper edge of the valve housing, and the portion of the body adjacent the head being reduced in diameter to provide a clearance chamber to supplement the cut away portion of the valve seat.

1,450,648. METHOD OF FORMING METAL. HARRY A. SCHWARTZ, Defiance, Ohio. Filed May 1, 1922. Serial No. 557,527. 8 Claims. (Cl. 207—1.)



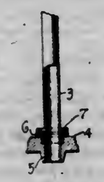
1. The herein described method, consisting in introducing molten metal into one forming member and utilizing the electric conductivity of said metal to control movement of the other forming member.

1,450,649. WINDOW STRIP. JOHN W. SCOTT, West Allis, Wis. Filed Apr. 4, 1922. Serial No. 549,457. 2 Claims. (Cl. 20—69.)



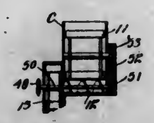
1. A device of the character described comprising a pair of metallic strips adapted to be secured to a window jamb and the adjacent side of the sash respectively, one of said strips having a longitudinal groove formed therein and the other strip having a bead slidably engagable therewith, the latter strip being normally under spring tension so as to exert pressure in said groove to frictionally hold said sash in adjusted position.

1,450,650. COOLING APPARATUS FOR AUTOMOBILES. CHARLES SEYMOUR, Brantford, Ontario, Canada. Filed Nov. 13, 1919. Serial No. 337,767. 3 Claims. (Cl. 285—47.)



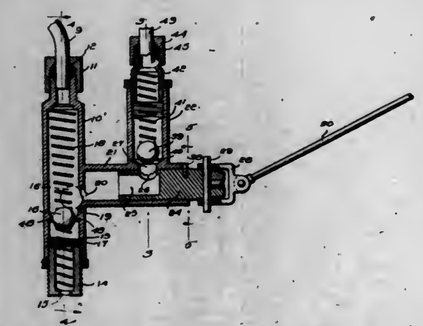
1. In a radiator the combination with upper and lower housings having aligned perforations, of radiator pipes inserted and seated within the perforations and extending between the housings, and collapsible gaskets originally substantially cylindrical embracing and surrounding said pipes and compressed by said pipes against the exterior of the housing.

1,450,651. MACHINE FOR DISTRIBUTING POWDER OVER GROWING PLANTS. GEORGE F. SPROULL, Montgomery, Ala. Filed Nov. 18, 1920. Serial No. 424,951. 4 Claims. (Cl. 43—148.)



4. A machine of the character described comprising a frame, a hopper on the frame, parallel shafts extending through the hopper, a screw conveyor on the lower shaft, agitating plates for the material in the hopper parallel to the upper shaft and secured thereto, and gearing connecting the shafts for driving one from the other, substantially as set forth.

1,450,652. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. JOHN STUTIKA, West Pullman, Ill. Filed Apr. 13, 1921. Serial No. 461,081. 3 Claims. (Cl. 123—25.)

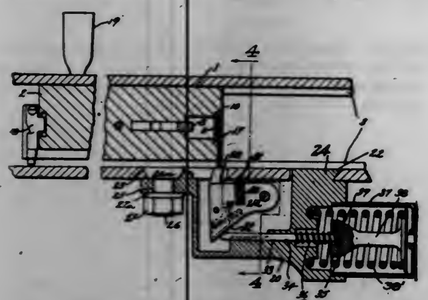


3. A device for supplying steam and air to the intake manifold of an internal combustion engine comprising a pipe connected to the overflow pipe of the radiator to supply steam, a valve casing connected to said pipe, said valve casing being provided with an opening for the introduction of air, an outlet opening arranged intermediate said air inlet opening and the connection to said pipe, a valve arranged in said casing and positioned between said openings, a pair of springs arranged above and below said valve to normally cut off the supply of air, said valve being adapted to raise when the engine is running to permit introduction of air, and being further adapted to close said outlet opening to cut off the supply of air and steam when the speed of the engine exceeds a predetermined limit, and connections between said outlet opening and said intake manifold.

1,450,653. AUTOMATIC GUN. CARL G. SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed June 11, 1918, Serial No. 239,360. Renewed Nov. 21, 1921. Serial No. 516,901. 30 Claims. (Cl. 89—3.)

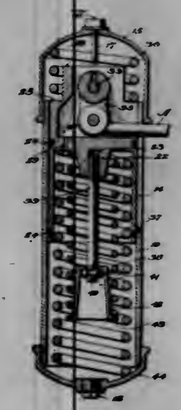
11. In an automatic gun, an oscillatory trigger, a reciprocating breech block, a sear slidably mounted on said breech block, a slide on said breech block for operating

said sear, and means to allow continuous oscillation of the trigger without operating the slide until after the gun is completely breeched.



19. In an automatic gun, a carrier containing a trigger, a housing attached to said carrier, a two piece piston reciprocatively mounted in the housing and extending into the carrier.

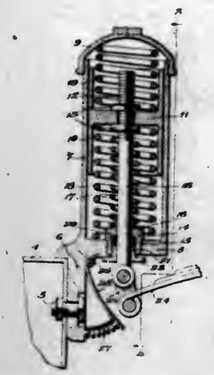
1,450,654. VEHICLE SPRING. CLARENCE W. THOMPSON, Wilmington, Del., assignor to Thompson Spring Company, Wilmington, Del., a Corporation of Delaware. Filed July 9, 1921. Serial No. 483,621. 3 Claims. (Cl. 267—29.)



1. A spring device comprising an elongated casing arranged to be connected with a vehicle part and having an end wall and a longitudinal slot in its side wall, a hollow piston therein having a partition, a main compression-resisting coil-spring interposed between said partition and end wall, a rod on said partition extending into said main spring, a sleeve slidable on said rod normally out of contact with and arranged to contact with said end wall after initial compression of said main spring and having an annular seat, a member maintaining said sleeve on said rod, an auxiliary spring interposed between said partition and annular seat, and a member mounted on said piston arranged to be connected with a vehicle part movable in said slot.

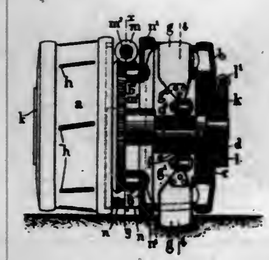
1,450,655. VEHICLE SPRING. CLARENCE W. THOMPSON, Wilmington, Del., assignor to Thompson Spring Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 24, 1922. Serial No. 546,401. 2 Claims. (Cl. 267—29.)

1. In a vehicle, the combination of an upstanding bracket, an abutment extending laterally therefrom, a spring on said abutment, a rod arranged to compress said spring extending below said abutment, a body-supporting member, a member connecting said member and



rod, and a sheet-material spring-buffer secured to said bracket below said abutment and curving outwardly from said bracket and arranged to restrain movement of said connecting member.

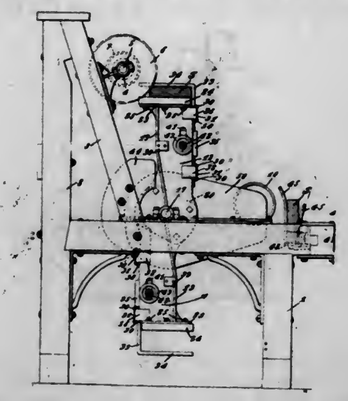
1,450,656. TRACTION WHEEL WITH MOVABLE BLADES. FRANÇOIS TRÉCHOT, Paris, France. Filed Mar. 30, 1921. Serial No. 457,114. 8 Claims. (Cl. 301—48.)



2. A wheel with movable blades for tractors, sleighs and generally self-propelled vehicles, comprising webs secured to the vehicle frame, a drum adapted to rotate around an axis lying at right angles to the direction of motion of the vehicle, bearings between the said drum and the webs, means for rotating said drum, slots provided in the periphery of said drum, a transverse normally stationary crank shaft, loosely carried by the webs, a collar loosely mounted on said crank shaft and independent of the drum, blades pivotally connected to said collar within the drum and adapted to pass through the slots of the drum, said blades being driven by the rotation of the drum.

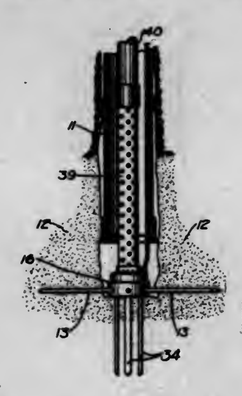
1,450,657. SAWING MACHINE. JOSEPH LEE WALKER, Baton Rouge, La. Filed Mar. 8, 1921. Serial No. 450,688. 4 Claims. (Cl. 143—57.)

1. In a machine for cutting veneer the combination with stack holding means, of aligning arms mounted for rotation about a common axis, spaced saws mounted for rotation about a common axis, said arms being adjustable toward and from each other, rods slidably mounted upon the arms, blocks secured to the outer ends of the arms and constituting stack supports, fingers extending transversely of and parallel with the blocks and carried by the rods, said rods constituting means for engaging a stack during the rotation of the arms and lifting it from its holding means, weights connected to the rods and operating by gravity to bind the fingers upon the



stack engaged by the rods to clamp the stack throughout its width upon the blocks, said fingers engaging the stack at points close to and parallel with the planes of the saws.

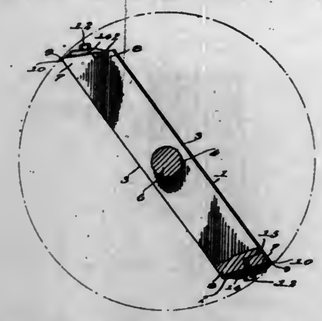
1,450,658. OIL-WELL HEATER. MICHAEL WARNICK, Los Angeles, Calif., assignor to Warnick Oil Heater Syndicate, Los Angeles, Calif. Filed Dec. 6, 1921. Serial No. 520,424. 12 Claims. (Cl. 219—33.)



1. An oil well heater comprising a supporting member, and a plurality of flexible heating elements mounted on said supporting member.

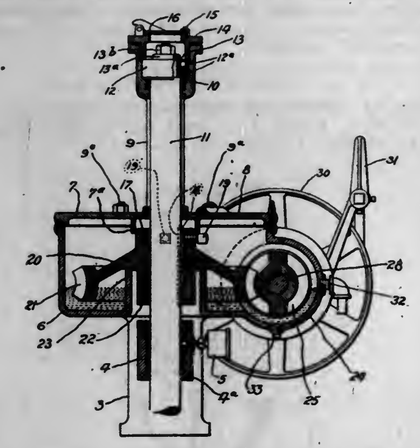
1,450,659. RIPSAW STICKER HEAD. JOSEPH CLARK WILLIAMS, Cleveland, Ohio. Filed Aug. 29, 1922. Serial No. 584,971. 2 Claims. (Cl. 144—228.)

1. A cutter head comprising a longitudinal body having parallel faces at the ends thereof and having outstanding flanges extending along the lateral marginal edges of said faces, a cutter blade for each of said faces, each cutter blade being of such width as to be adapted to slide on one of said faces between the flanges thereon, said cutter blade having a longitudinal slot therein, and a cap plate for each face, said cap plate being substantially co-extensive in area with the face and being adapted to be superimposed on the cutter blade thereon, and means extending through each cap plate and through the slot of the underlying cutter blade into threaded



engagement with said body for releasably holding said cutter blade clamped against the underlying face in adjusted relation to the body.

1,450,660. DRIVING MECHANISM FOR AGITATORS. ALVAN H. ALBERGER, New York, N. Y. Filed Oct. 22, 1920. Serial No. 418,788. 11 Claims. (Cl. 74—7.)

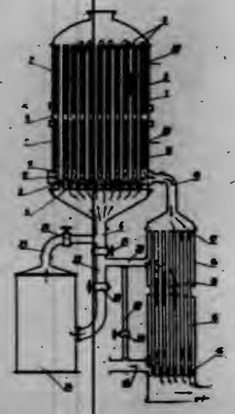


1. A mixing or stirring apparatus comprising a tank with stirrer shaft and blades, a bracket detachably supported on the top of the tank and carrying a gear casing comprising a seamless annular housing with integral bottom and up-turned outer and inner walls, a detachable cover for said housing detachably secured in contact with the rim of the outer up-turned wall of the housing and having a central opening free of contact with the stirrer shaft, a stirrer shaft bearing below and separate from the bottom of the housing and a bracket supporting said bearing in fixed relation to the housing, a thrust bearing above the housing remote from a drive gear attached to the stirrer shaft and rotating in the housing.

1,450,661. APPARATUS FOR THE MANUFACTURE OF SULPHURIC ANHYDRIDE. PAUL AUDIANNE, Paris, France, assignor to Etablissents Kuhlmann, Paris, France. Filed July 29, 1920. Serial No. 399,714. 5 Claims. (Cl. 23—1.)

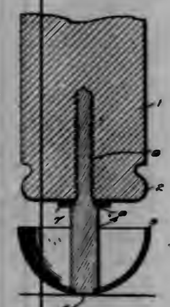
1. An apparatus for the manufacture of sulphuric anhydride by the contact method comprising in combina-

tion a chamber, a plurality of vertical tubes in the said chamber, a catalyst placed between and around the said tubes, means for distributing a mixture containing sulfurous anhydride and oxygen inside the said



tubes, means for causing the said mixture to rise inside the said tubes, and to flow downwardly through the catalyst, and means for maintaining a substantially uniform temperature throughout the height of the mass of catalyzer material.

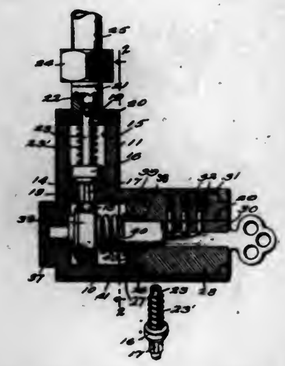
1,450,662. ATTACHMENT FOR FURNITURE. JOHN M. BIGGS, Helena, Ark. Filed Oct. 31, 1921. Serial No. 511,875. 1 Claim. (Cl. 43—109.)



A guard for furniture legs comprising a cup having a smooth substantially semi-spherical outer surface and being provided in its lowermost portion with a vertical opening, and a vertical fastening member having a reduced lower end mounted in said opening and adapted to be secured therein and form a closure therefor whereby said cup is adapted to contain a liquid, the upper end of said fastening member being threaded for reception in an opening in the furniture leg, the lower end of said fastening member being smooth and forming a continuation of the semi-spherical outer surface of said cup and adapted to directly support the weight of the furniture.

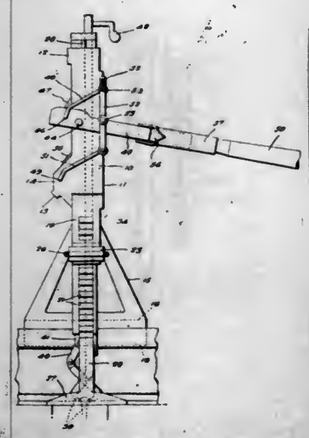
1,450,663. VALVE. MATTHIAS CHRISTMAN, Springfield, Mo. Filed Feb. 21, 1920. Serial No. 360,306. 1 Claim. (Cl. 251—30.)

A valve comprising a casing, inlet and outlet conduits connected with said casing, a valve seat, a valve engaging said seat, a tappet carried by said valve and extending within the casing, a rotatable cam mounted within the casing and engaging said tappet, said cam being provided with high and low portions whereby said valve



is shifted to opened and closed position, the high point of said cam being provided with a notch adapted to receive the end of the tappet to maintain the valve in opened position.

1,450,664. SPIKE PULLER. GEORGE M. CLARK, Charleston, W. Va. Filed Feb. 11, 1922. Serial No. 535,874. 4 Claims. (Cl. 254—18.)

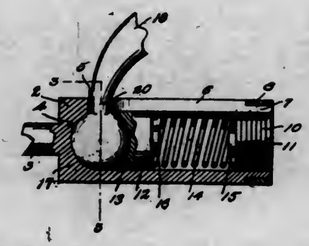


1. A tool of the class described comprising a housing, means whereby the housing may be supported in vertical position, a rack bar movable in said housing, pivotally connected gripping jaws, a shank rigid with one of the jaws and slidable longitudinally through the rack bar, a link having one end pivotally secured to the other jaw and its opposite end pivotally connected to the rack bar and means whereby the rack bar may be operated.

1,450,665. COUPLING. ARTHUR R. CROZIER, El Paso, Tex. Filed Apr. 16, 1920. Serial No. 374,891. 1 Claim. (Cl. 287—90.)

In a device of the kind described, a tubular member having one end closed and reduced to form a stem, said

stem being threaded to provide nut receiving means, the opposite end of said member being open, threaded interiorly and reduced exteriorly, a plug adapted to be received within the open interiorly threaded end of said member, said member having a slot extending from the open end and terminating adjacent the closed end, a re-



taining ring on the reduced open end of said member for closing the slot at its open end and having an outside diameter equal to the body of said member, a plunger slidable in said member, a compression spring between said plunger and plug, a ball head engaged by said plunger, and a bracket arm extending from the ball upwardly through the slot.

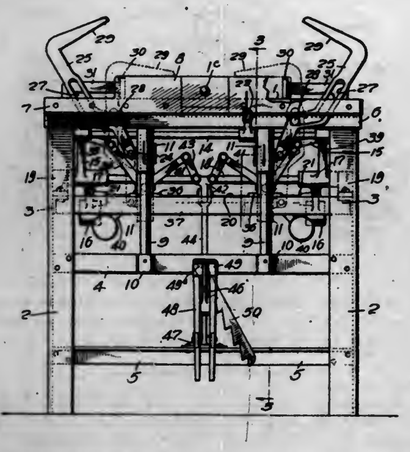
1,450,666. EXPLOSIVE CARTRIDGE. SHARP DECKER, Commodore, Pa. Filed Dec. 21, 1922. Serial No. 608,277. 2 Claims. (Cl. 102—6.)



1. A cartridge comprising a tubular body having a reinforced intermediate portion, the tubular body being formed from an elongated blank having tapering ends which constitute the reinforcement at the intermediate portion of the body, an explosive filling within the tubular body, plugs glued in the ends of the body and consisting of sections of corn cobs having weakened central portions capable of being readily displaced, a coating of paraffine extending about the tubular body and the plugs for excluding moisture.

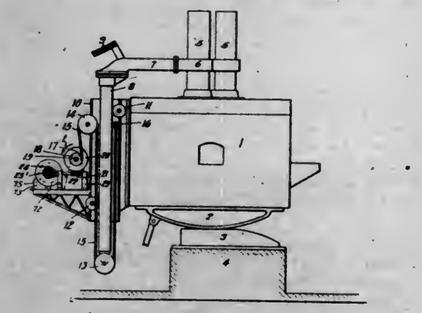
1,450,667. BACON-STRINGING MACHINE. JOHN DVORAK, Cedar Rapids, Iowa. Filed Nov. 6, 1922. Serial No. 599,311. 19 Claims. (Cl. 17—14.)

1. In a bacon stringing machine, a table for supporting the bacon, presser boards slidably mounted upon said table, and means for moving said presser-boards simultaneously toward each other in parallelism to force them



into engagement with the edges of said bacon to clamp and press the bacon to shape with substantially parallel sides at right angles to the ends thereof.

1,450,668. APPARATUS FOR MOVING FURNACE ELECTRODES. WALDEMAR DYRSSEN, New York, N. Y. Filed Feb. 25, 1921. Serial No. 447,648. 14 Claims. (Cl. 204—64.)

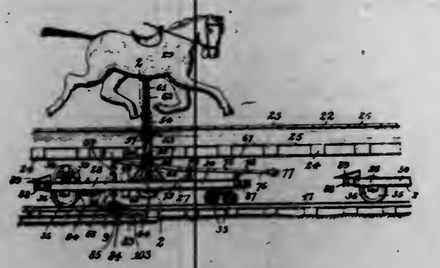


8. An electric furnace having a movable electrode, a motor rotating continuously in one direction at a substantially constant speed, a shaft connected by differential gearing to said motor for moving said electrode, and means operatively connected with said differential gearing for controlling the rate of rotation of said shaft.

1,450,669. AMUSEMENT APPARATUS. PETER A. LALLE and CLAUDE F. FOWLER, Buffalo, N. Y., assignors of one-third to Sebastian L. Petrino, Buffalo, N. Y. Filed July 7, 1921. Serial No. 483,028. 14 Claims. (Cl. 104—60.)

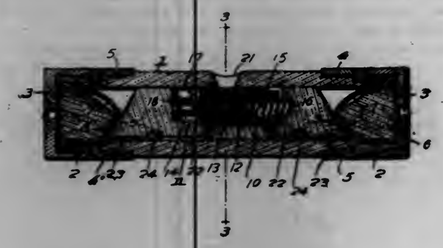
4. An amusement apparatus, comprising a plurality of correspondingly trending tracks, a plurality of trucks adapted for traveling movement on each track and having driving wheels connected by an axle, a motor on each truck for operating the driving wheels thereof, an eccentric shaft, means for rotating said eccentric shaft from said axle, an eccentric on said eccentric shaft, standards

rising from said trucks, a guide element pivotaly secured to said standards, a supporting rod guided for movement



in said guide element and having an eccentric strap surrounding said eccentric, and a passenger mount secured to the upper end of said supporting rod.

1,450,670. INDICATOR FOR ELECTRIC FUSES. FRANK C. LA MAR, Pittsburgh, Pa. Filed June 7, 1920. Serial No. 387,017. 10 Claims. (Cl. 200—121.)



1. An electric fuse, comprising a casing, a fuse element fixed in said casing, and an electrically operated movable indicator for said fuse connected in circuit with said fuse element, adapted to be controlled by the current passing through said fuse element to continuously and alternately indicate the on and off conditions of the current.

1,450,671. RESILIENT WHEEL. IRVIN LINCOLN, Lansing, Mich. Filed July 5, 1921. Serial No. 482,315. 1 Claim. (Cl. 152—52.)



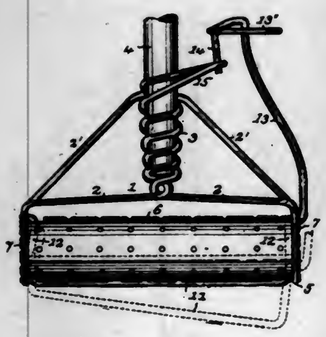
A resilient wheel comprising a rim, lugs provided with openings, said lugs being mounted in spaced relation on the inner surface of said rim, the hub disk having radially disposed lugs projecting outwardly from the peripheral edge thereof, said lugs being alternately disposed to extend on opposite sides of the disk, and spring spokes adapted to be connected to the hub disk lugs and the rim lugs, each of said spring spokes being provided with a hook formed from a single piece of material, one end of which is bent to form a knob which is adapted to be received between and embraced by the convolutions of the spring spoke, the internal coils of the spring spoke being constructed about the hook above the knob to retain the same in firm engagement therewith.

1,450,672. SAFETY EXPLODER. HUGH MCEWAN, Pittsburgh, Pa., assignor to William W. Nicoll, New York, N. Y. Filed Aug. 24, 1921. Serial No. 494,923. 2 Claims. (Cl. 102—8.)



1. An exploder of the character described, comprising a cylindrical tube, a head on one end of the tube, a cover hingedly connected to the head and adapted to be removably connected to the head so as to hold the cover against the head, a firing pin in the tube, a shoulder on the firing pin, said firing pin having an opening therein, a wire projected through the cover and through the opening in the firing pin, and a coiled spring under compression on the pin interposed between the wire and the shoulder.

1,450,673. MOP HOLDER AND WRINGER. EDWARD M. MCNAMARA, Chicago, Ill. Filed Dec. 23, 1920, Serial No. 432,659. Renewed Sept. 1, 1922. Serial No. 585,830. 10 Claims. (Cl. 15—119.)

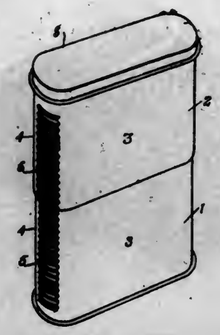


1. In a mop holder and wringer, the combination of a revoluble drum, a frame having bearing rings at its ends of an internal diameter equal to that of the drum adapted to encircle and provide peripheral bearings for the ends of the drum, means for preventing longitudinal movement of the drum in the bearing rings, means for attaching the mop material to the drum, and means for imparting rotation to the drum.

1,450,674. SIZE-REDUCIBLE BOX. HOWARD F. MARSTON, Dayton, Ohio. Filed Nov. 18, 1921. Serial No. 516,188. 2 Claims. (Cl. 220—8.)

2. A size-reducible box comprising a base section broader than it is thick and having on its narrow side alternate grooves and ridges and a top section having a hinged cover, said top section fitting over the base section and having also similar narrow and broad sides, the narrow sides being provided with alternate grooves and ridges to fit into the grooves and ridges of the other section to hold

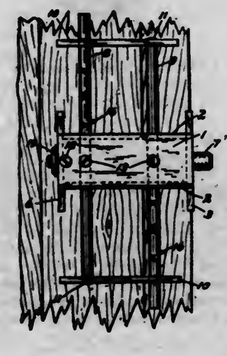
the sections in a plurality of adjusted positions, said sections forming a box of extreme size when the serrations are least overlapped and forming a box of minimum size when said sections are most overlapped, said sections being movable back or forth as desired.



1,450,675. PROCESS OF SEPARATING ISOMERIC TRINITROTOLUENES. CHARLES M. STINE, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 5, 1917. Serial No. 200,369. 4 Claims. (Cl. 260—142.)

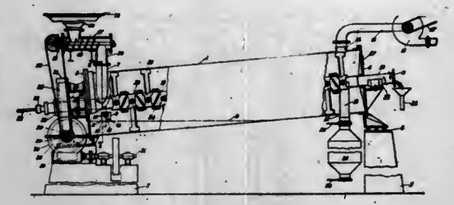
1. The process of purification of the crude product of nitration of toluol to obtain the trinitrotoluol of commerce, comprising subjecting said mixture to the action of carbon tetrachloride.

1,450,676. BUTT GAUGE. NEWTON C. WELLS and HUBERT J. MEYER, Los Angeles, Calif.; said Meyer assignor to said Wells. Filed Mar. 24, 1921. Serial No. 455,128. 4 Claims. (Cl. 33—197.)



1. A gauge comprising a base, a transverse gauge plate carried thereby, rods slidable transversely through said base, gauge plates upon said rods at the respective sides of said base and secured respectively to opposite ends of the respective rods, means for securing said rods in adjusted positions relative to said base, a screw rod extending longitudinally of said base, and a transverse abutment element threaded thereon for adjustment lengthwise of said base and relative to said transverse gauge plate.

1,450,677. SULPHUR BURNER. HORACE G. CHICKERING, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 13, 1922. Serial No. 560,677. 7 Claims. (Cl. 23—1.)

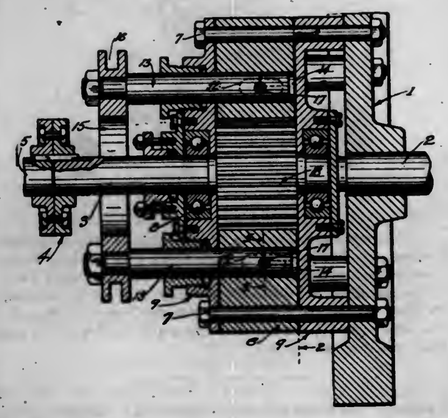


1. In a sulphur burner for continuously burning sulphur high in ash, in combination, a combustion chamber with its bottom inclined to provide a sulphur-puddle portion, means for charging sulphur into said chamber at the lower end of said portion, an ash discharger adjacent the upper end of said portion, a gas outlet and an air inlet spaced from each other along said chamber, and means immersed in the puddle upon said portion for continuously removing the ash therefrom and discharging the same into said ash discharger.

1,450,678. PROCESS OF PRODUCING PHTHALIMIDS. HARRY D. GIBBS, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 24, 1920. Serial No. 360,828. 10 Claims. (Cl. 260—124.)

2. The process of producing a phthalimid which comprises passing a gaseous mixture consisting of naphthalene, oxygen, and a substance containing the group NH_2 into contact with a catalyst capable of accelerating the oxidation of the naphthalene to phthalic anhydride, while maintaining the catalyst at a temperature between 200 and 650° C.

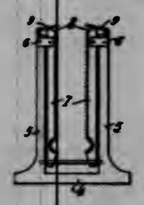
1,450,679. HYDRAULIC CLUTCH. EMIL S. GRAFENSTATT, Los Angeles, Calif. Filed Sept. 3, 1920. Serial No. 407,834. 6 Claims. (Cl. 192—61.)



1. The combination with a fly wheel of a casing secured thereto, said casing having diametrically opposite chambers, pinions loosely journaled in said chambers, said chambers having ports connecting the same at opposite sides of said pinions, a driven shaft carrying a gear meshing with said pinions, closure rods for said ports con-

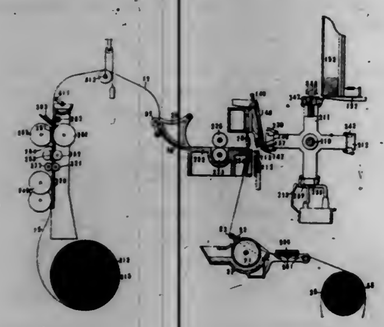
nected for longitudinal adjustment to regulate the openings through said ports, said rods having valve means for allowing escapement of a hydraulic medium from the spaces at the ends of said rods.

1,450,680. CYCLE STAND AND BRUSH HOLDER. ALBERTO GUAZZONI, Rome, Italy. Filed Oct. 13, 1921. Serial No. 507,486. 5 Claims. (Cl. 15—160.)



1. A bicycle wheel cleaner, comprising a stand provided with a pair of movable brushes, and means carried by the stand to engage and move the brushes toward each other when a bicycle is supported on said means.

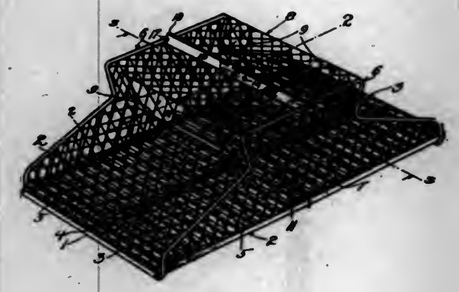
1,450,681. METHOD OF MAKING BOXES AND ELEMENTS THEREOF. CARLOS HOLLY, Lockport, N. Y., assignor to F. N. Burt Company, Limited, Buffalo, N. Y., a Corporation of Ontario, Canada. Filed Sept. 17, 1912, Serial No. 720,731. Renewed Sept. 8, 1922. Serial No. 586,973. 40 Claims. (Cl. 93—40.)



1. The method of making box elements which comprises feeding a web, scarfing the edges thereof on opposite faces, applying an adhesive to the scarfed edges thereof as it is fed, dividing the web into sections, folding the sections on lines transverse of the severed edge, and superposing the adhesive supplied scarfed edges after the glue on one edge has become tacky.

1,450,682. LOBSTER TRAP. CLIFFORD L. KEDDY, Lynn, Mass., assignor of one-half to William A. Frye, Welchville, Me. Filed Oct. 15, 1919. Serial No. 331,209. 2 Claims. (Cl. 43—100.)

1. A lobster trap comprising a base; two walls pivotally connected with opposite sides of said base; a top wall of open flexible material fastened at its edges to said base and to said pivotally connected walls; a removable brace for the upper portions of said pivotally connected walls, and flexible ties each secured at one end to the upper



part of one of said pivotally connected walls and at its opposite end to said base at the opposite side of the structure.

1,450,683. COMBINATION UNDERGARMENT FOR STOUT WOMEN. IRENE E. KELLY, Highland Park, Ill. Filed Feb. 8, 1922. Serial No. 535,081. 1 Claim. (Cl. 2—144.)

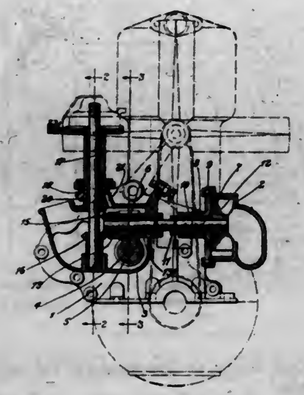


A woman's combination undergarment having the general form of a chemise, a crotch piece joining the front and back of the garment at the bottom thereof and defining, in conjunction with adjacent parts of the garment, openings for the legs of the wearer, one side of the garment having an opening therein that extends from the region of the waist of the garment through the bottom thereof, the back of the garment being formed in a lower section whose top is at the waist line of the garment and an upper section which is continued below the top of said lower section to form an apron to cover the upper portion of said lower section in various relative positions of said sections, and an elastic assembled with the top edge of the aforesaid lower garment section and anchored at its ends at the sides of said lower garment section.

1,450,684. AUTOMOBILE. RAYMOND R. KIRSCH, St. Louis, Mo., assignor to Hexagon Specialty Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 23, 1921. Serial No. 479,967. 17 Claims. (Cl. 123—195.)

1. The combination with the cam shaft of an engine, of a horizontal shaft journaled for rotation at right angles to the axis of the cam shaft, gearing for driving said horizontal shaft from the cam shaft, a single vertical shaft, gearing for rotating the vertical shaft from the

horizontal shaft, a chamber enclosing said gearings, a pump device above said chamber operated by the single

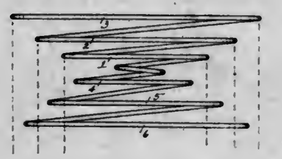


vertical shaft for pumping oil into said chamber, and timer mechanism operated by said single vertical shaft above said pump device.

1,450,685. BITUMINOUS EMULSION AND PROCESS OF MAKING SAME. LESTER KIRSCHBRAUN, Chicago, Ill. Filed Aug. 16, 1922. Serial No. 582,316. 6 Claims. (Cl. 134—1.)

3. An emulsion, non-coalescible on drying, consisting of sulphite liquor, an earthy colloidal material, and a bitumen being in dispersed phase.

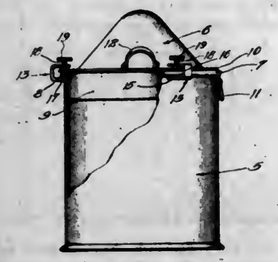
1,450,686. SPRING. AREND KLAASSE, Jackson, Mich. Filed Apr. 17, 1922. Serial No. 553,480. 3 Claims. (Cl. 5—256.)



1. A longitudinally-resilient helical spring whose coils adjacent the respective ends thereof successively increase in diameter toward said ends, the coils adjacent one end of the spring being of greater diameter than the coils corresponding in position thereto respectively adjacent the other end of the spring.

1,450,687. COOKING VESSEL. HARRY KUNIN, Chicago, Ill., assignor to Midwest Machinery Products Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1920, Serial No. 429,335. Renewed Jan. 22, 1923. 1 Claim. (Cl. 220—55.)

In a device of the class described, the combination of a cylindrical vessel having its upper edge portion outwardly flared and downwardly curved to provide an outstanding bead, a cover for said vessel having an outwardly projecting flange adapted to seat on the upper surface of said bead, and a clamping device for clamping said flange and bead together, said clamping device including a U-shaped member having its top arm extending at right angles to its central portion, and having its bottom arm extending at right angles to its central portion and terminating at a point back of the point of termination of the top arm, and having its terminal edge curved upwardly to provide an up-turned lip conforming to the curvature of the lower face of the aforesaid



bead, and a clamping screw working through the top arm in a direction at right angles to the top and bottom arms and in substantial alignment with the central portion of the up-turned lip aforesaid, substantially as described.

1,450,688. PAINT. JOHN T. LAWRENCE, Newark, N. J. Filed Sept. 19, 1921. Serial No. 501,693. 4 Claims. (Cl. 134—39.)

3. A paint including the following ingredients in substantially the proportions named: oil 80 parts, barium sulphate 12 parts, sodium carbonate 12 parts, prepared white zinc 24 parts, white lead 12 parts, zinc sulphate 16 parts, silica 12 parts, ground white antimony 6 parts, commercial yellow rosin 6 parts, water white rosin 6 parts.

1,450,689. BADGE. ALFRED B. LEMON, Providence, R. I. Filed Feb. 15, 1922. Serial No. 536,645. 2 Claims. (Cl. 63—23.)

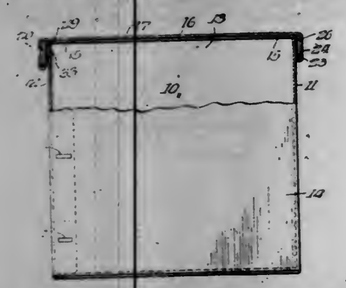


1. A badge comprising a body having an outline of the desired significance and having an unobstructed opening through it shaped to carry a significance different from that of the body, and a hinged closure plate mounted on opposite sides of said body adapted to be moved independently to expose said opening and permit an unobstructed view of the opening from either side of the body.

1,450,690. COLLAPSIBLE CADDY. SAMUEL N. LEOPOLD, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a Corporation of Illinois. Filed Oct. 27, 1921. Serial No. 510,859. 6 Claims. (Cl. 229—44.)

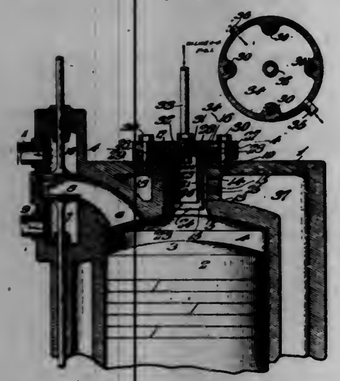
1. In a container, the combination of a rectangular receptacle portion and a cover portion therefor comprising a lid having flanges integrally connected to the edges of the lid and adapted to overlap the four sides of the receptacle part when the cover is closed, one of said flanges

having along its edge an intermediate and two end extension flaps, the intermediate extension flap being united



to one of said sides and constituting with said flange a hinge for said cover, the end extension flaps constituting means for locking said flange to the adjacent flanges.

1,450,691. BURNER FOR INTERNAL-COMBUSTION ENGINES. EDWARD L. LOWE, Palo Alto, Calif. Filed Dec. 29, 1922. Serial No. 609,776. 13 Claims. (Cl. 123—33.)



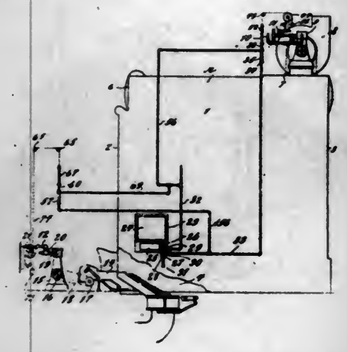
1. In a device of the character stated, a burner composed of an outer sleeve, and an inner sleeve positioned within said outer sleeve, both of said sleeves being open and unobstructed at their lower ends, whereby an outer ignition chamber is formed between said sleeves open at its bottom, and a relatively large combustion chamber is formed within said inner sleeve, said chambers being in communication at their upper and lower ends.

1,450,692. PRINTING INK. WILLIAM J. MCELROY, New York, and JOHN CLARKE, Manhasset, North Hempstead, N. Y., assignors, by mesne assignments, to Alchemic Gold Company, Inc., a Corporation of New York. Filed June 16, 1922. Serial No. 568,849. 12 Claims. (Cl. 134—36.)

11. A printing composition composed of the recited ingredients in the following proportions by weight: 16 per cent of coumarone resin dissolved in 84 per cent of a solvent composed of 95 per cent terpineol and 5 per cent rosin oil; with metallic powder pigment in the proportion of two parts of pigment to one part of the resin solution.

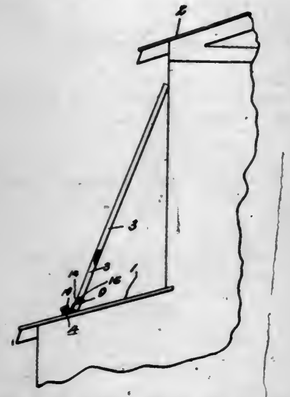
1,450,693. FURNACE CONTROL. EMBURY MCLEAN, Brooklyn, N. Y. Filed Oct. 21, 1920. Serial No. 418,594. 10 Claims. (Cl. 236—15.)

1. In combination, a furnace, a plurality of independent operating means for the furnace, a controller for each of said means, a pressure cylinder for operating each controller and connected to a common source of



pressure, and means for synchronizing the operation of said cylinders.

1,450,694. SAFETY DEVICE FOR LADDERS. RAYMOND MAHONEY, Philadelphia, Pa. Filed Sept. 7, 1922. Serial No. 586,578. 2 Claims. (Cl. 228—64.)

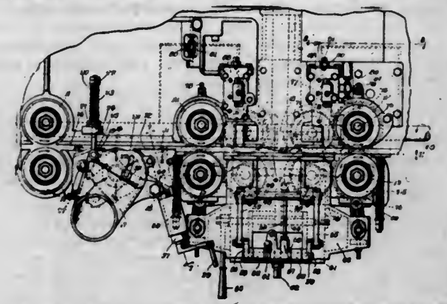


1. A safety or holding device for ladders, comprising a body bar with raised intermediate portions and longitudinal slots therein, holders arranged to receive the side bars of a ladder and having shanks positioned under the raised portions of the body bar, and means connecting the body bar and holder shanks and extending through said slots; the holders each including a bifurcated body and an angular shank whereby the body will be maintained above and in spaced relation to a roof or other support.

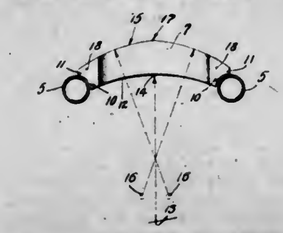
1,450,695. MILLING-MACHINE ADJUSTMENT AND QUICK RELEASE. CHARLES J. MARSHALL and FRANK R. WEAVER, Beloit, Wis., assignors to P. B. Yates Machine Company, Beloit, Wis., a Corporation of Wisconsin. Filed May 20, 1920. Serial No. 382,707. 17 Claims. (Cl. 144—246.)

1. In a machine of the character described, a cutter head, a stock abutment rail opposed to the operative face thereof, stock guides disposed one in advance and the other at the rear of the cutter head, means to yieldingly press both guides towards the abutment rail, and means to adjust the forward limit of movement of the second guide, said last mentioned guide and mount

including a slide carrying the guide, a second slide, a yieldable connection therebetween, and means for adjusting position of the second slide to determine the operative position of the guide.

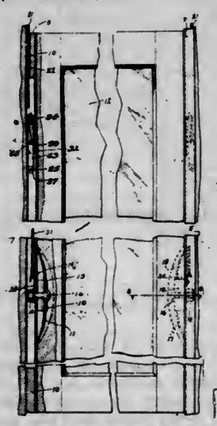


1,450,696. LOCOMOTIVE ARCH. CHARLES E. MILLER, Chicago, Ill., assignor to Universal Arch Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,463. 3 Claims. (Cl. 110—87.)



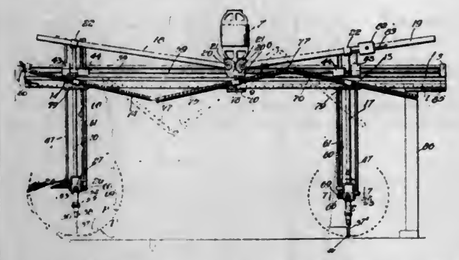
1. A refractory arch brick for support upon water tubes in a fire box, the ends of the brick having quarter circle grooves for receiving the supporting tubes, and the brick arched up between its ends, the middle part of the brick being thicker than its ends, substantially as described.

1,450,697. WINDOW CONSTRUCTION. ARTHUR R. MITCHELL, Milwaukee, Wis., assignor to Mitchell Window Device Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 1, 1920. Serial No. 421,023. 2 Claims. (Cl. 20—49.)



1. In combination a window frame having vertically extending guideways, a sash frame, runners associated with said frame and adapted to slide in said guideways, a sash cord in one of said guideways fixed to and arranged to support said sash frame, and an anti-rattler device associated with said sash frame including a roller adapted to travel in the guideway in which said sash cord is located, said roller being grooved to permit the passage of the sash cord between it and the opposite wall of the respective guideway without interference.

1,450,698. CARVING OR REPRODUCING MACHINE. NAZARENE MORICI, Chicago, Ill. Filed June 18, 1920. Serial No. 390,005. 11 Claims. (Cl. 90—13.1.)



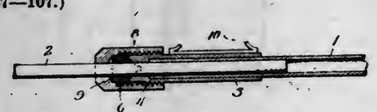
1. In a device of the kind described, a frame, means for pivotally supporting the same intermediate its ends, a plurality of adjustable tool carriers slidably carried by said frame and arranged one on each side of said supporting means, means for driving the tools carried by said tool carriers, and intermediate connecting means between the carriers whereby movement of one will be transmitted to and move the other.

1,450,699. PROCESS FOR SEAMLESS-TUBE DRAWING. ALONZO CLAY MORSE and HARRY RICHARD LEWIS, Jr., Shelby, Ohio. Filed Sept. 13, 1921. Serial No. 500,414. 11 Claims. (Cl. 148—12.)



1. A step in the process of seamless tube drawing, consisting in a refinement of the grain of the metal by heat-treatment to a predetermined degree and then quenching.

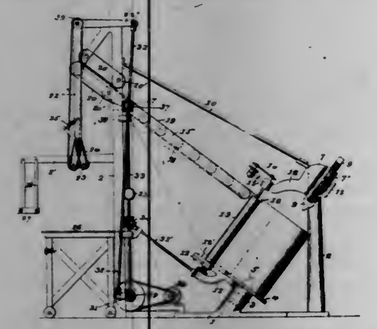
1,450,700. FISH ROD. RAYMOND A. MULL, Benton Harbor, Mich., assignor to Holland Rod Manufacturing Company, St. Joseph, Mich., a Corporation. Filed Nov. 19, 1921. Serial No. 516,440. 5 Claims. (Cl. 287—107.)



1. A fish rod comprising a plurality of sections of different diameters, so that the rod as a whole tapers

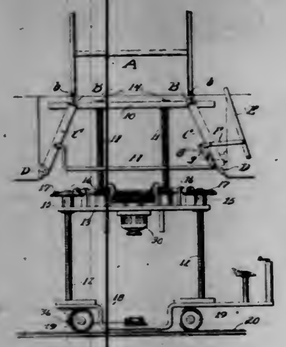
toward the outer end thereof, and a joint between the sections, comprising an externally screw threaded tube forming a sleeve fixed on the tubular larger section, a collar fixed on the smaller section, to engage the end of said tube, with the end of the smaller section projecting some distance beyond said collar thereon to freely enter the bore of the larger section, so that the insertion is limited only by said engagement of the collar with the sleeve, and a rotary sleeve retained on the smaller section by said collar and threaded internally to screw upon said tube, thereby to force said collar into endwise engagement with said sleeve.

1,450,701. MACHINE FOR TREATING BOLTS OF CLOTH FOR CLOTHING. CHARLES E. MURRAY, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 513,987. 6 Claims. (Cl. 26—2.)



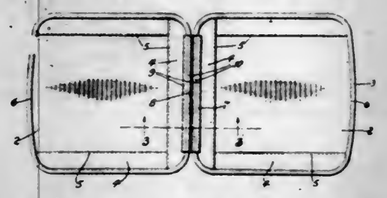
1. In a machine for spreading bolts of cloth the layers of which are longitudinally folded, the combination of a supporting frame, a triangular platform extending from said frame, a series of positively driven carrier belts associated with the inclined sides of said platform, means for revolubly supporting a bolt of cloth adjacent to the apex of said platform, a pair of drawing rollers arranged intermediate of said supporting means and the apex of the platform, and a pleating mechanism associated with the other end of said platform.

1,450,702. WHEEL-PIT DROP TABLE. SPENCER OTIS, Barrington, Ill. Filed Sept. 6, 1921. Serial No. 498,940. Renewed Feb. 21, 1923. 19 Claims. (Cl. 104—32.)



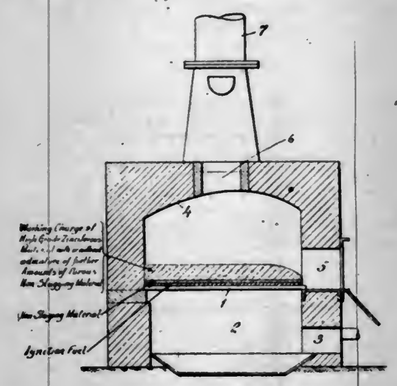
3. In an elevating apparatus, a table, primary elevating mechanism adapted to raise and lower said table, a platform upon which said primary elevating mechanism is mounted, and a secondary elevating mechanism adapted to raise and lower said platform; said secondary elevating mechanism comprising screws projecting upward past the level of the lower limits of movement of the table; and said primary elevating mechanism comprising screws mounted upon the platform and projecting upwardly past said table.

1,450,703. SEAT PAD. JOHN REECE, St. Louis, Mo., assignor to Evr Klean Seat Pad Co., St. Louis, Mo., a Corporation of Missouri. Filed Jan. 11, 1922. Serial No. 528,528. 3 Claims. (Cl. 155—182.)



1. As an article of manufacture, a seat pad comprising a seating member and a back member, each of which is characterized by sufficient stiffness to remain extended vertically and by sufficient flexibility to permit bending to the curvature of the seat and back of the support to which it may be applied, a border of flexible material enclosing the adjacent edge of each of said members, a pair of hinge strips covering said borders and having their edges stitched to said members respectively beyond said borders, and said strips also being stitched to said members and to said borders near the marginal edges of said members, and a row of stitching uniting said hinge strips and holding said strips together between the adjacent edges of said members and separating said borders from each other.

1,450,704. PRODUCTION OF ZINC OXIDE. JAMES A. SINOMASTER and FRANK G. BREYER, Palmerton, Pa., assignors to New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 18, 1920. Serial No. 359,507. 9 Claims. (Cl. 75—19.)



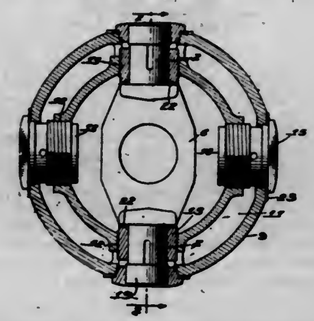
1. In the production of zinc oxide by the Wetherill process from a working charge containing high grade zinciferous material relatively low in gangue constituents, the step of supplying a porous distributing layer of substantially non-slagging material between the ignition fuel and the working charge; substantially as described.

1,450,705. HEEL CONSTRUCTION. JOHN C. STILES, St. Louis, Mo. Filed Apr. 5, 1922. Serial No. 549,837. 6 Claims. (Cl. 36—41.)



1. In a heel construction, the combination of a heel, having a transversely disposed seat at an intermediate point on the upper side thereof with a socket extending forwardly and inclining downwardly from a point behind the seat on a line passing under the seat, a heel-plate having a tongue extending forwardly and down into the socket, said heel-plate constructed to be secured to the heel portion of the sole of the shoe, resting upon said seat and supported thereby and having its forward end supported on the forward portion of the heel, and means for securing the forward portion of the heel to the sole.

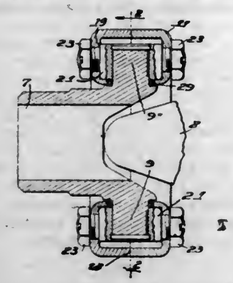
1,450,706. UNIVERSAL JOINT. CARL L. ANDERSON, Rockford, Ill., assignor of one-fourth to Levin Faust, one-fourth to Eric S. Ekstrom, and one-fourth to Carl E. Swenson, all of Rockford, Ill. Filed Mar. 25, 1921. Serial No. 455,609. 8 Claims. (Cl. 64—102.)



4. In a universal joint, the combination of a pair of terminal coupling members, a transmission housing having an oil reservoir, means for connecting the terminal members and transmission housing comprising trunnions and bearing bodies for trunnions, each bearing body having a through bore providing radial bearing for its trunnion and having a hardened steel bearing plug secured in the outer end of said bore providing a bearing complemental to the outer end of said trunnion for taking the end thrust thereof, each body being exteriorly threaded and adapted to be screwed into operative position, and means providing oil communication between the lubricant reservoir and the radial and end thrust trunnion bearing surfaces.

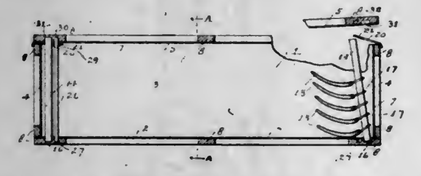
1,450,707. UNIVERSAL JOINT. CARL L. ANDERSON, Rockford, Ill., assignor of one-fourth to Levin Faust, one-fourth to Eric S. Ekstrom, and one-fourth to Carl E. Swenson, all of Rockford, Ill. Filed Mar. 25, 1921. Serial No. 455,610. 10 Claims. (Cl. 64—102.)

10. In a universal joint, the combination of coupling members, a sectional transmission member, trunnion connections between said members, a bearing block for each trunnion serving for connecting the sections of the transmission member together, each bearing block having a through opening providing radial bearing for its trunnion, and a bearing member secured in the outer end of



each bore providing a bearing surface complemental to the outer end of its trunnion for taking the end thrust of the latter.

1,450,708. PACKING AND SHIPPING CASE FOR GARMENTS. JOHN THOMAS BATTS, Grand Rapids, Mich. Filed Apr. 28, 1919. Serial No. 293,094. 8 Claims. (Cl. 206—7.)



3. In a garment packing and shipping case; a plurality of garment hangers; a supporting post swingably carried inside the case for removably supporting the hangers and held at one end on the bottom of the case against lateral movement; means adjacent the top of the case for holding the other end of the post in swung position.

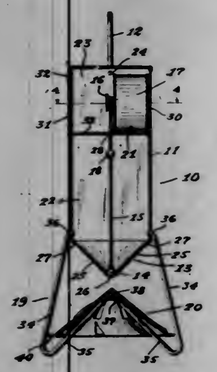
1,450,709. COLUMN OR SUPPORT FOR ROCK DRILLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 24, 1921. Serial No. 480,167. 2 Claims. (Cl. 255—53.)



1. A column adapted to support a rock drill in operative position, comprising a single tubular body portion,

a nut secured against rotation within the upper end of said body portion, a jack screw rotatable within said nut in axial alignment with the body portion and extending beyond the end of said body portion, a rock engaging member at the outer end of the jack screw, a supporting member having relatively slidable but non-rotatable engagement within the lower end of the body portion of the column, a rock engaging member at the outer end of the supporting member, a spring adapted to be compressed within the tubular body portion of the column by relative longitudinal movement between the body portion and the supporting member, means for manually rotating the jack screw within the said nut, and means adjustable upon the jack screw for manually locking the screw against rotation relatively to the nut when the parts are in desired position.

1,450,710. AUTOMATIC FEEDER. JOHN BRODNER, Seattle, Wash. Filed May 31, 1921. Serial No. 473,987. 2 Claims. (Cl. 119—56.)



1. An automatic feeder comprising a storage container, means for automatically discharging the feed from the container, a feed distributor suspended beneath the container, the distributor and mounting thereof embodying a wire frame having outer side bars diverging downwardly, and a central inverted V-shaped frame portion having the apex vertically alined with the discharging means and said distributor embodying a conical shell.

1,450,711. PROCESS OF MAKING A FUSED BIFOCAL. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Franklin Optical Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 29, 1921. Serial No. 465,582. 5 Claims. (Cl. 49—82.1.)



1. In the process of making fused bifocal lenses, placing upon the main portion of the lens a circular group of nodules of glass of a relative high index of refraction, and then fusing said nodules to said main portion of the lens for forming the reading segment.

1,450,712. PROCESS OF MAKING PREPARED ROOFING. WALTER H. CADY, Boston, Mass. Filed Nov. 7, 1921. Serial No. 513,334. 6 Claims. (Cl. 91—68.)

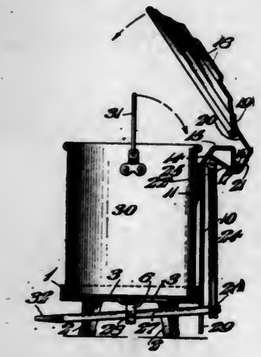
2. A process for producing prepared roofing, consisting in surfacing a prepared roofing sheet with a granular substance and with a colored adhesive binder in the form of a non-adhesive emulsion.

3. A process of producing a prepared roofing consisting in distributing on to the surface of the roofing a mixture of granular substance and an adhesive binder in the form of a non-adhesive emulsion.

5. A process for producing a prepared waterproof sheet consisting in surfacing the prepared sheet with a granular substance and with a waterproof pitchy binder in the form of an emulsion.

6. A process for producing a prepared waterproof sheet consisting in surfacing said sheet with a granular substance and with a waterproof colored pitchy binder in the form of an emulsion.

1,450,713. RECEPTACLE STAND. LAWRENCE F. CAREY, Philadelphia, Pa. Filed June 8, 1921. Serial No. 475,960. 4 Claims. (Cl. 248—11.5.)



4. A receptacle stand, comprising a frame having a standard rising therefrom and deflected laterally and then downwardly at its upper end, a cover, a plate connected with said cover and movably connected intermediate its ends with the deflected portion of said standard and having its free end inwardly deflected, a bar movably connected with the free end of said plate, and a treadle operatively connected with said bar whereby when said treadle is depressed said bar is moved upwardly to effect the opening movement of said cover, said opening movement being limited by the contact of said free end with the juxtaposed portion of said standard.

1,450,714. CELLULOSE-ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,270. 6 Claims. (Cl. 106—40.)

1. A composition of matter, comprising cellulose ether dissolved in a mixture containing perchlorethylene and a lower monohydroxy aliphatic alcohol.

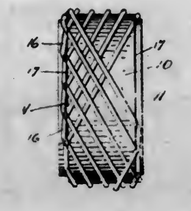
1,450,715. CELLULOSE-ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,271. 6 Claims. (Cl. 106—40.)

1. A composition of matter, comprising cellulose ether dissolved in a mixture containing methyl salicylate and a lower monohydroxy aliphatic alcohol.

1,450,716. CELLULOSE-ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,272. 6 Claims. (Cl. 106—40.)

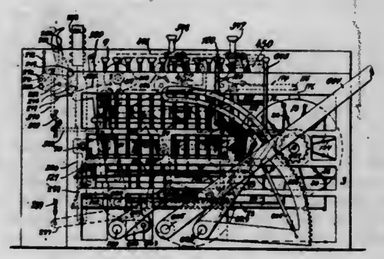
1. A composition of matter, comprising cellulose ether dissolved in a mixture containing furfural and a lower monohydroxy aliphatic alcohol.

1,450,717. WINDING MANDREL. OMER E. COTE, Pawtucket, R. I. Filed July 31, 1920. Serial No. 400,372. 4 Claims. (Cl. 242—118.)



2. A wire winding mandrel having recessed portions in its surface at the edge of its winding surface providing sharp-angled unobstructed shoulders for engaging the knuckle portions of the material wound diagonally thereon.

1,450,718. CALCULATING MACHINE. MICHELE G. DE SIMONE, Stapleton, N. Y., assignor to George B. Agnew, New York, N. Y. Filed June 17, 1918. Serial No. 240,537. 116 Claims. (Cl. 235—60.)

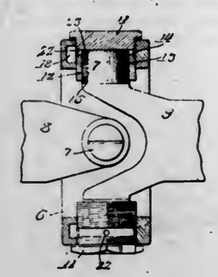


5. In a calculating machine, the combination of means for mechanically computing the difference between two values, including a rotary element, rotary means for mechanically computing the product of said difference and any third value, said product computing means being controlled in extent of rotation by said rotary element, and means for recording the resulting product, said recording means being controlled by said product computing means.

39. In a calculating machine, the combination of means for deriving the product of any multiplier value and the difference between any subtrahend and any minuend value, a key-board comprising keys for the multiplier and subtrahend and minuend values, means for restoring the operated subtrahend and minuend keys to neutral, and separate means for restoring the operated multiplier key to neutral.

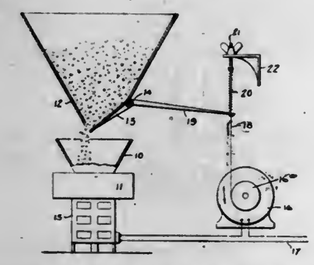
1,450,719. UNIVERSAL JOINT. LEVIN FAUST, Rockford, Ill., assignor of one-fourth to Carl E. Swenson, one-fourth to Eric S. Ekstrom, and one-fourth to Carl L. Anderson, all of Rockford, Ill. Filed June 7, 1920. Serial No. 387,272. 6 Claims. (Cl. 64—102.)

4. A universal joint comprising a pair of coupling members having trunnion ends, a transmission member having an annular lubricant reservoir and quarteringly disposed openings intersecting said reservoir and threaded internally throughout their length, and bearing units threadingly engaged in said openings, each unit comprising a member externally threaded and having a bearing socket providing radial bearing for one of the trunnion ends, and



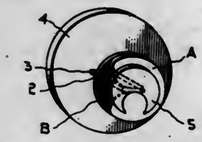
a thrust bearing at the outer end of said radial bearing for the outer end of said trunnion.

1,450,720. LOAD-REGULATING MEANS. HOWARD MAIN GASSMAN, Birmingham, Ala. Filed Feb. 20, 1919, Serial No. 278,218. Renewed Jan. 19, 1922. Serial No. 530,496. 18 Claims. (Cl. 83—44.)



9. In feed regulating devices, the combination of a material treating device, having electrical operating means including a torque motor, with a feeding device for said material treating device, said feeding device having its output controlled by the operation of said torque motor.

1,450,721. HOLDER FOR BADGES, BUTTONS, AND THE LIKE. CHARLES F. GAUNT, Birmingham, England. Filed Mar. 10, 1921. Serial No. 451,362. 1 Claim. (Cl. 40—1.5.)

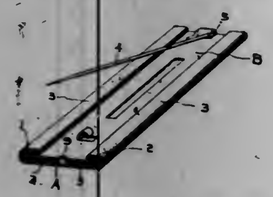


A holder for securing a badge button or the like having a flat shank in a button hole said means consisting of two metal parts hinged one upon the other each of said parts having an open ended slot curved concentrically to the pivot point of the hinge whereby they may be placed in position presenting an opening conforming to and snugly encircling the shank of the button badge or the like when closed, the open end of each having a flared mouth.

1,450,722. MEDAL-RIBBON MOUNT. CHARLES F. GAUNT, Birmingham, England. Filed Mar. 10, 1921. Serial No. 451,363. 3 Claims. (Cl. 40—15.)

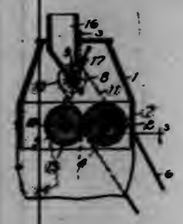
1. A medal ribbon bar consisting of a sheet metal front bar of channel cross section, a sheet metal back

bar located in position between the flanges of the front bar and bearing flat against said last mentioned bar, a ribbon stretched over the front face of said front bar and having its ends extending over the flanges and interposed between the bearing faces of the two bars, said



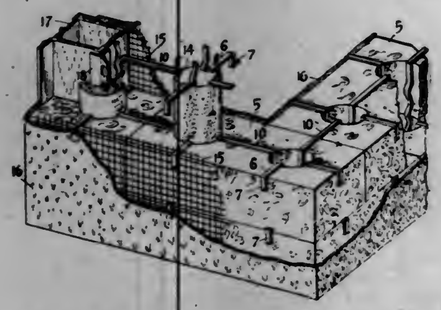
flanges being bent down upon and overlapping said back bar for the purpose of retaining the latter and the ribbon in place, means located at opposite ends of the front bar for preventing endwise displacement of the back bar thereon and means carried by the back bar for attachment to a garment.

1,450,723. DEVICE AND PROCESS FOR FEEDING ROLLER MILLS. ALEXANDER GILLESPIE, Pittsfield, Ill. Filed July 18, 1921. Serial No. 485,605. 8 Claims. (Cl. 83—12.)



7. The method of feeding grain to the differential grinding rolls of a roller mill, which consists in regulating the numerical feed of the grain to cause the number of grains passed to the grinding rolls per revolution of the slow roll of the differential grinding rolls, to be such that the totality of the area of the flattened grains shall substantially equal the surface area of said slow roll.

1,450,724. WALL STRUCTURE. JAMES MONROE HEWLETT, Lawrence, N. Y., assignor to The Stockade Building System, Inc., New York, N. Y., a Corporation of New York. Filed May 26, 1922. Serial No. 563,785. 7 Claims. (Cl. 72—10.)



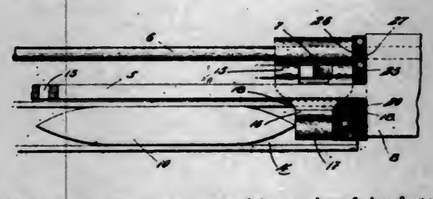
1. A wall structure comprising blocks with vertical openings therethrough in register, parallel wall facings, a row of concrete columns in the vertical openings, and tie members between each column and the wall facings which have depending arms embedded in the columns.

1,450,725. ELECTRICAL RESISTANCE HEATING ELEMENT AND PROCESS OF MAKING SAME. FRANK HODSON, Philadelphia, Pa. Filed May 22, 1922. Serial No. 562,568. 11 Claims. (Cl. 219—63.)



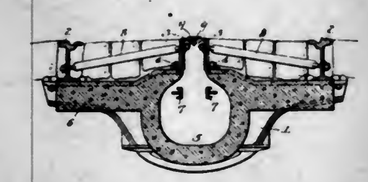
1. An electrical resistance heating element including a coil of carbon.

1,450,726. BUFFER FOR PICKERS. CHARLES W. HOLBROOK, Providence, R. I. Filed May 6, 1922. Serial No. 558,857. 3 Claims. (Cl. 139—29.)



3. A buffer for looms comprising a broad head portion adapted to receive the impact of a picker head and a narrow neck portion to receive the impact of a picker body, the said head and neck portions formed of superposed layers of tough material disposed with their edges to constitute the impact face of the buffer, and means holding said layers in close contactual engagement with each other throughout their length.

1,450,727. AUTOMATICALLY-OPERATED SLOT COVER. SLAUGHTER W. HUFF, New York, N. Y. Filed Mar. 29, 1922. Serial No. 547,695. 12 Claims. (Cl. 104—145.)

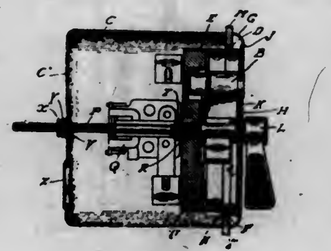


1. A slot cover normally closing the slot by the action of gravity comprising a longitudinally extending member having at least a portion of its under surface bevelled to permit of upward and outward movement on an edge of the slot.

1,450,728. IGNITION SWITCH. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1918. Serial No. 244,864. 7 Claims. (Cl. 200—168.)

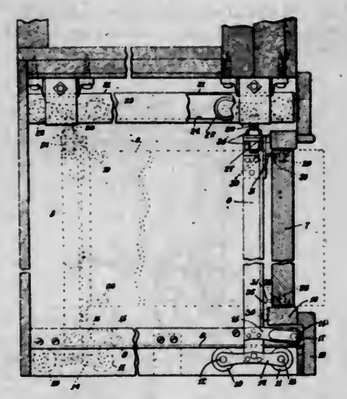
7. The combination of an electrical switch of the character described, of a mounting plate having an orifice to receive said switch, cooperating means for preventing said electrical switch from rotating relative to said

mounting plate, of a cup-shaped cover adapted to be mounted against the rear of said mounting plate and to extend over said orifice, an orifice in said cover, and



a threaded stud secured to said switch and adapted to extend rearwardly through the orifice in said cover to yieldingly secure said cover and switch in position.

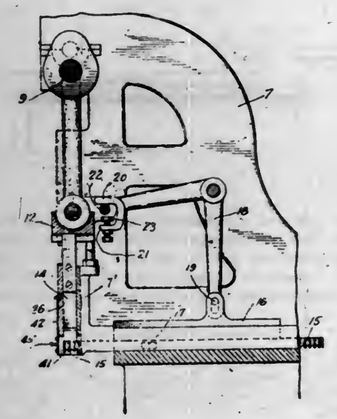
1,450,729. CARRIER FOR DISAPPEARING DOORS. ROBERT R. LEEDS, Ashland, Ohio, assignor to The Topping Manufacturing Co., Ashland, Ohio, a Corporation of Ohio. Filed Dec. 8, 1921. Serial No. 520,938. 12 Claims. (Cl. 20—19.)



8. As an article of manufacture, a carrier for disappearing doors, including a hanger bar for pivotally supporting a door, a truck for one end of said hanger bar, including a pair of rollers on pivots on opposite front and rear sides of said hanger bar and adapted to run on one horizontal side of a track, and a third roller on a pivot on said hanger bar and spaced from each of said other rollers and adapted to run on the opposite side of the track.

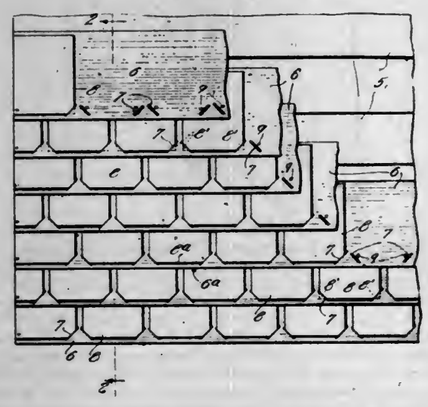
1,450,730. NAILER FOR CORRUGATED FASTENERS. CHARLES A. MACDONALD, Cambridge, Mass., assignor to William S. Doig, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,656. 7 Claims. (Cl. 1—9.)

1. In a nailing machine for corrugated fasteners, a frame, a hammer, means for reciprocating said hammer, a head block having a passage therein, means for feeding a corrugated fastener strip to the passage in said head block, means for holding the end of said strip in said block in position to be driven, means for shearing a predetermined length from the end of the strip in said head block while the end is in position to be driven,



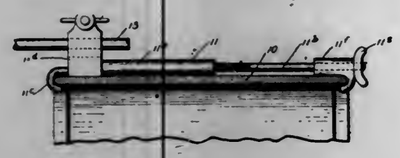
and a resiliently mounted head stop for the free end of the corrugated fastener, said hammer being adapted to drive the sheared length of fastener.

1,450,731. BUILDING CONSTRUCTION. ROBERT S. MACLEAN, Chicago, Ill. Filed July 31, 1922. Serial No. 578,564. 12 Claims. (Cl. 108—9.)



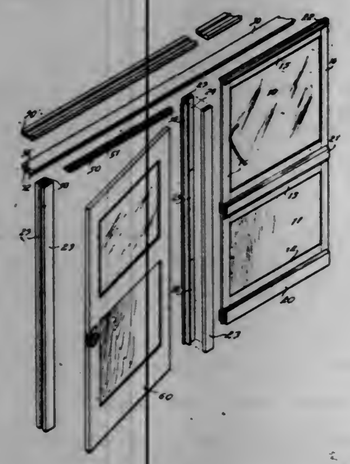
1. The combination with a supporting surface of a plurality of strips of flexible roofing material arranged on said surface in overlapping relation, the free edges of said strips being substantially parallel, said strips being provided at spaced intervals and adjacent their free edges with a plurality of pairs of outwardly converging slots, a plurality of rectangular shingles extending transversely of each of said strips in spaced relation, each of said shingles having its outer corners loosely inserted in one of said pairs of slots, and a nail driven through each of said strips and the next adjacent strip, its superimposed shingle, and said supporting surface, adjacent each of said slots, the head of said nail being concealed by the shingle having its corner secured in said last named slot.

1,450,732. TRAP-DRUM SUPPORT. LAWRENCE A. MUELLER, Kankakee, Ill. Filed May 10, 1920. Serial No. 380,301. 5 Claims. (Cl. 248—20.)



5. In a device of the class described, a clamping member, a rod mounted thereon and slidable in a substantially parallel direction relative to said clamping member, a bracket supported by said rod and adjustable thereon, and drum-engaging means mounted on said bracket.

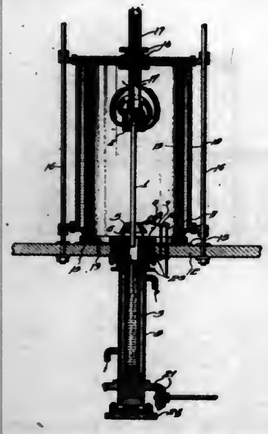
1,450,733. SECTIONAL PARTITION. ERNEST W. REAUGH, Cleveland, Ohio, assignor to The Reaugh Construction Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 17, 1921. Serial No. 478,291. 6 Claims. (Cl. 20—.)



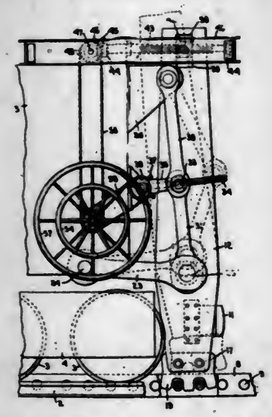
1. In a sectional partition, a panel section having stiles at each end extending throughout the length thereof, a fabricated post comprising single piece facing strips extending throughout length of the section, and a plurality of fillers positioned intermediate the strips with the ends thereof in abutting engagement, said fillers having a width less than that of the strips, whereby a groove may be formed for receiving one of said stiles, the uppermost filler extending beyond the strips to provide a tongue, and a cap rail having a groove in its under side for receiving the section, and the tongue respectively.

1,450,734. HEAT-TREATMENT METHOD OF RENDERING METALS DUCTILE. EMERY ROTH, Chicago, Ill. Filed Jan. 19, 1921. Serial No. 438,331. 8 Claims. (Cl. 148—11.)

1. The method of producing a comparatively large body of ductile tungsten which consists in forming a rod or long ingot of non-ductile tungsten, passing it slowly through a short heating zone having a temperature equal to or above the critical temperature at which the crystalline structure of the tungsten permanently changes and keeping that part of the rod or ingot which has not reached the heating zone cool.



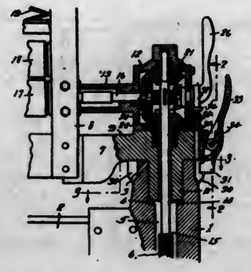
1,450,735. MATERIAL-HANDLING BRIDGE. ROBERT E. SHEAL, Cleveland, Ohio. Filed Dec. 3, 1921. Serial No. 519,725. 11 Claims. (Cl. 105—29.)



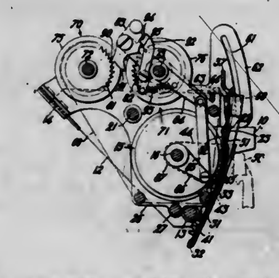
1. In combination, a material bridge movable along fixed tracks or runways, a rack, means on the structure cooperating with the rack for propelling the same along the tracks, an anchor secured to the structure and adapted to be brought into cooperating relation with said rack to hold the structure stationary on the track, and means for moving said anchor along the bridge parallel to the rack to cause it to engage tightly the teeth of the same.

1,450,736. POWER-DRIVEN WRINGER MECHANISM. HAROLD E. SMITH, Cleveland Heights, Ohio. Filed Aug. 24, 1920. Serial No. 405,604. 5 Claims. (Cl. 68—32.)

3. In a device of the character described, the combination with a support and a bracket pivoted thereto, rotating devices carried by said bracket, a drive shaft, power transmitting means carried by said bracket for connecting said rotating devices to said drive shaft, said means including a clutch, and a pair of independent latching devices adapted and arranged to secure said bracket against pivotal movement, there being sockets for said latch members, one of said latch members operatively connected to said clutch so as to permit the engagement of said clutch only upon the insertion of such latch member into a socket, and the other latch member being arranged to register with a socket simultaneously therewith.



1,450,737. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1921. Serial No. 462,890. 12 Claims. (Cl. 197—135.)



1. In a typewriting machine, the combination with a revoluble platen, of a stencil-holder comprising a pair of fingers, and means on said fingers for holding a stencil-frame at its bottom edge, said fingers having raised portions to bend the upper part of the stencil-frame rearwardly, and rearward projections engaging the upper edge of said stencil-frame to hold said frame against upward movement in said holder.

1,450,738. TENSION OIL CAP FOR FISHING REELS. FRANCIS M. CASE, Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 19, 1921. Serial No. 516,406. 8 Claims. (Cl. 64—24.)



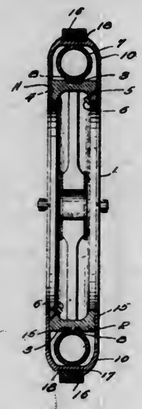
1. In a device of the character described, a hollow boss, a cup shaped member surrounding and spaced from said boss, a removable cap having a skirt surrounding said boss and entering said member, and a bent metal spring strip within said member for frictionally engaging the skirt of said cap.

1,450,739. MATERIAL FOR PHONOGRAPH RECORD BLANKS AND PROCESS OF MAKING THE SAME. JAMES P. ELLIOTT, Chicago, Ill.; Mary Broders Elliott executrix of said James P. Elliott, deceased. Filed Sept. 15, 1920. Serial No. 410,425. 4 Claims. (Cl. 18—48.4.)



1. The method of making material for phonograph record blanks which consists in laying a layer of phonograph record composition upon a porous layer of fibrous material containing in a powdered or granular form a binder which is cementitious when heated, and then applying heat sufficient to cause the binder to become cementitious and pressure sufficient to cause the layer containing the binder to become compacted and united to the other layer.

1,450,740. RESILIENT WHEEL. MILTON J. HELMICK and THOMAS L. AGNEW, Albuquerque, N. Mex. Filed Oct. 22, 1920. Serial No. 418,687. 2 Claims. (Cl. 152—34.)

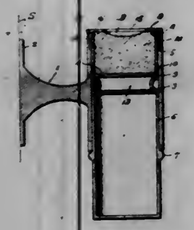


1. A resilient vehicle wheel comprising a felly having a centrally disposed and circumferentially extending continuous groove in the outer face thereof providing a seat, an annular pneumatic cushioning element formed with a continuous rim fitted throughout in said seat, the transverse diameter of said element being substantially less than the width of said felly, a metallic rim substantially U-shape in cross section and engaged over said felly and element and having the inner face of the tread portion thereof normally and centrally in contact with said element, the sides of said rim disposed in sliding contact with the sides of said felly, said rim having a thickened tread portion and the outer face thereof provided with a continuous circumferentially extending groove of greater width than the groove in the rim, and an annular resilient tread member fitted in throughout and projecting from the groove in the tread portion of the rim.

1,450,741. BILLIARD-CUE-TIP CHALKER. EDWIN HILL, Norwich, Conn. Filed Oct. 22, 1921. Serial No. 509,595. 4 Claims. (Cl. 46—8.)

1. A billiard cue chalker comprising a cylindrical guide having a bracket for attachment to a support, a tube slidable and rotatable in said guide and provided at one

end with a chalk chamber, a closure for said chamber rotatable in and held against longitudinal movement



with respect to said guide, said closure and guide having cooperating inter-engaging means to prevent the withdrawal of the tube in one direction.

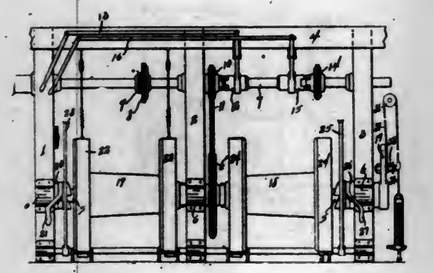
1,450,742. PORTABLE SPRAYER. WAITE W. KEENE, Quincy, Mass., assignor to Masury-Young Company, Charlestown, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1922. Serial No. 529,470. 4 Claims. (Cl. 299—95.)



1. A sprayer comprising a portable tank having a discharge port through its bottom wall, a rotatable valve disposed below said wall and controlling said port, a carrying handle mounted at the top of said tank and comprising spaced attaching portions and a cross-piece connecting said portions, a pull member operatively connected to said valve and having at its upper end an inwardly extending finger hook disposed across the tank top to lie beneath the cross-piece of the carrying handle whereby said pull member may be raised to open the valve by the forefinger of the same hand with which the user grasps the carrying handle, and a spring opposing the raising movement of said pull member.

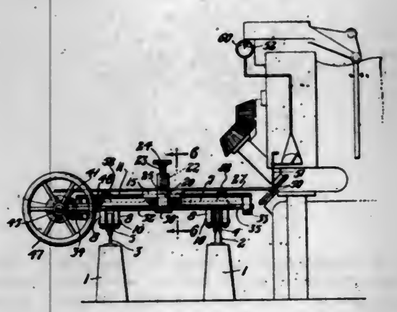
1,450,743. DRAW WORKS FOR STANDARD AND ROTARY DRILLING OPERATIONS. JAMES M. KELLERMAN, Los Angeles, Calif. Filed Feb. 18, 1922. Serial No. 537,636. 6 Claims. (Cl. 255—3.)

1. A draw works for standard and rotary drilling operations comprising a frame, a drive shaft journaled on said frame, a line shaft and gearing for driving said drive shaft from said line shaft, drums loosely mounted on



said drive shaft, clutches for making said drums rigid with said drive shaft, and an operating crank rigid with said drive shaft.

1,450,744. PLATE HOLDING AND GUIDING APPARATUS. THOMAS FRANKLIN KELLEY, Gloucester, N. J. Filed July 31, 1919. Serial No. 314,545. 2 Claims. (Cl. 164—63.)

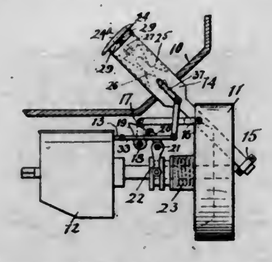


1. A work holding and guiding device comprising a movable member provided with a guide and having projections extending from the front edge thereof, a work holding device upon said member, said device being guided upon and by the said guide, and said device having a projection extending forwardly therefrom intermediate the projections upon the said member, said projection being provided with a screw threaded opening, a screw threaded rod revolubly supported in bearings in the projections upon the said member and extending through the screw threaded opening in the projection upon the said device, and means for causing rotation of said rod in either direction to effect adjustments of the said work holding device in either direction upon the said member.

1,450,745. GEAR SHIFT FOR MOTOR VEHICLES. LEICESTER L. LEECE, Cleveland, Ohio. Filed Apr. 6, 1921. Serial No. 459,018. 7 Claims. (Cl. 74—81.)

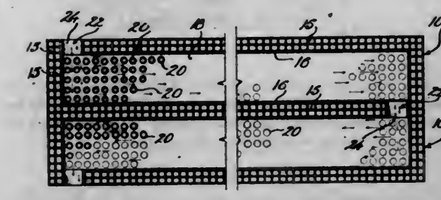
1. In a foot controlled gear shift for motor vehicles, a pair of gear shifting members movable to and from neutral position, a pedal, and selective means operated by the

pedal and serving when the pedal is actuated in a certain direction to move either of the shifting members to a po-



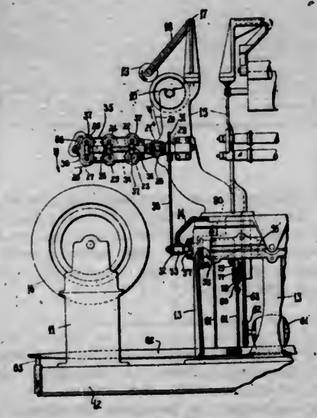
sition to effect a selected shift and to move the other to neutral position.

1,450,746. RADIATOR CORE. PATRICK H. LONERGAN, Boulder, Colo. Filed Oct. 13, 1920. Serial No. 416,693. 4 Claims. (Cl. 257—128.)



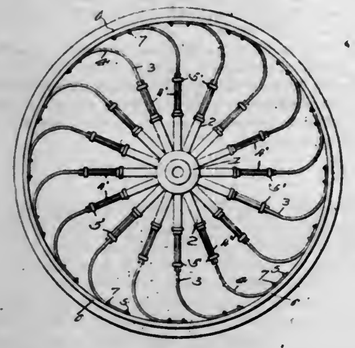
1. A radiator core comprising a plurality of superimposed sections, each section having an inlet opening in its upper wall adjacent one end and an outlet opening in its lower wall adjacent the other end, and means in each section for cooling the contents thereof comprising a plurality of air tubes having their ends fixed in the front and rear walls of each section and extending through the section, and a plurality of cooling cells arranged along the periphery of each section.

1,450,747. TENSION DEVICE FOR TIRE-BUILDING MACHINES. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1920. Serial No. 421,385. 6 Claims. (154—10.)



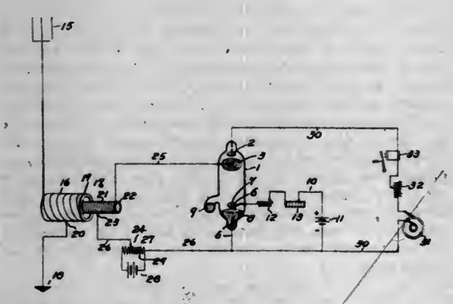
1. In a tire building machine, an annular core upon which the tire may be built, and means for supplying fabric to the core comprising a series of rolls constructed and arranged to give to the fabric a longitudinal stretch by successive increments.

1,450,748. SPRING WHEEL. JAMES A. MORROW, Wichita Falls, Tex. Filed Sept. 5, 1919. Serial No. 321,799. 1 Claim. (Cl. 152—49.)



A resilient wheel comprising a hub formed with radially projecting sockets, a rim, and resilient spokes consisting of main flat leaf springs whose outer extremities are of arcuate shape and secured to the inner periphery of the rim, supplemental flat springs of substantially half the length of the main springs and disposed on opposite sides of the latter, the supplemental springs terminating short of the arcuate portion of the main springs, the inner terminals of the main and the supplemental springs being disposed in the sockets of the hub and clips in surrounding relation to the outer extremities of the supplemental springs and embracing the adjacent portion of the main spring.

1,450,749. APPARATUS FOR AND METHOD OF CONTROLLING ELECTRIC CURRENTS. GEORGE W. PIERCE, Cambridge, Mass., assignor to Peter Cooper Hewitt, Ringwood Manor, N. J.; The Farmers' Loan and Trust Company, New York, N. Y., a Corporation of New York, executors of said Peter Cooper Hewitt, deceased. Filed Mar. 11, 1914. Serial No. 824,035. 26 Claims. (Cl. 250—27.)



1. An apparatus for controlling electric currents having, in combination, an evacuated vessel, an ionizing agency in the vessel, an electrode in the vessel, a controlled electric circuit connected between the ionizing

agency and the electrode including a source of periodic electric-motive force, an open-work electrode interposed between the ionizing agency and the first electrode and extending substantially across the interior of the vessel, and means including a controlling electric circuit for varying the potential of the open-work electrode, substantially as described.

5. A gaseous detector of radiant energy having a cathode, an anode, and potential gradient changing means, said detector having a local circuit, and means to interrupt said circuit at sufficiently short periods to maintain the detector effectively sensitive to receive signals, substantially as described.

6. That step in the method of controlling the action of a gaseous detector of radiant energy which comprises the effecting of a drop to zero value of a local current of said detector, at sufficiently short periods to maintain the detector effectively sensitive to receive signals, substantially as described.

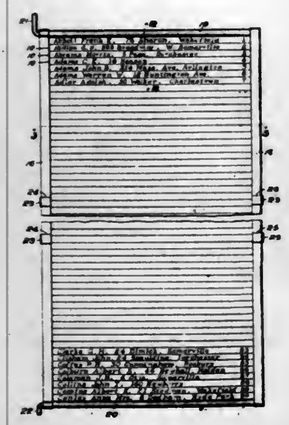
1,450,750. OIL FILTER. GEORGE E. PUTNAM, East Kansas City, Mo. Filed Jan. 25, 1921. Serial No. 439,825. 1 Claim. (Cl. 210—48.)



An oil filter comprising a receiving tank, a vertical supply tube within the tank having its inlet at the top and an outlet at the bottom of the tank, a filter bed carried by the tube and coextensive with the cross sectional area of the tank whereby, when the filter bed is expanded, its edges will fit tight against the inner wall of the tank, the filter bed being positioned intermediate the ends of the tank to divide the same into an upper chamber and a lower chamber, and a plurality of similar inverted, concavo-convex plates carried by the tube and located in the lower chamber, said plates being spaced from each other and from the walls of the tank, each plate constituting an oil trap, the plates each having an opening offset with respect to a complementary opening in an adjacent plate.

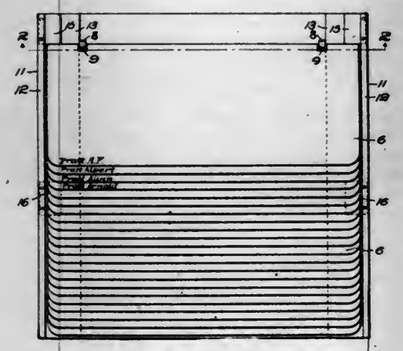
1,450,751. ADJUSTABLE INDEX. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 4, 1919. Serial No. 280,637. 10 Claims. (Cl. 40—64.)

1. In an adjustable index, the combination of front and back guides, and a series of index bars received between said guides and abutting edge to edge, each of said bars comprising a sheet of paper folded to present longitudinal



folds, and being thereby rendered resiliently expansible in thickness between said guides, whereby it is retained in place by frictional engagement therewith.

1,450,752. FILING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 29, 1919. Serial No. 334,151. 11 Claims. (Cl. 129—16.)

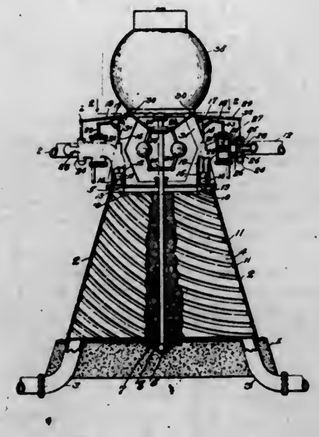


1. A file comprising, in combination, a pair of guides, a series of sheet-supports having their ends received by said guides, a series of overlapping sheets supported by said sheet-supports, respectively, and means secured to said sheet-supports intermediate and independent of said guides to position said sheets.

1,450,753. RIFLE TURBINE. OSCAR J. RENSHAW, Langells Valley, Oreg. Filed Nov. 19, 1921. Serial No. 516,465. 4 Claims. (Cl. 253—65.)

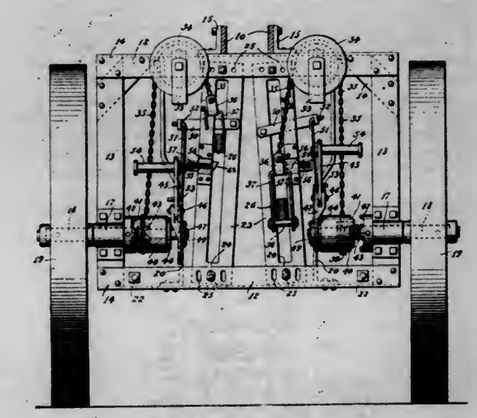
2. In a mechanism of the class described, the combination with a conical casing, of a conical rotary piston in said casing provided with a driving shaft, said piston

provided with a plurality of spiral grooves in its side and on one end with a circular groove and with a plurality



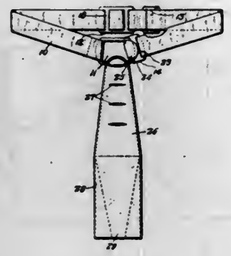
of grooves extending radially of the end and opening into said circular groove and said spiral grooves, and valved means for supplying steam to said grooves.

1,450,754. POWER LIFT FOR TRACTOR PLOWS. ARTHUR W. REYNOLDS, Newtown, Conn., assignor of one-half to Edward Benedict, Newtown, Conn. Original application filed Oct. 14, 1920, Serial No. 416,834. Divided and this application filed Jan. 27, 1921. Serial No. 440,265. 15 Claims. (Cl. 97—73.)



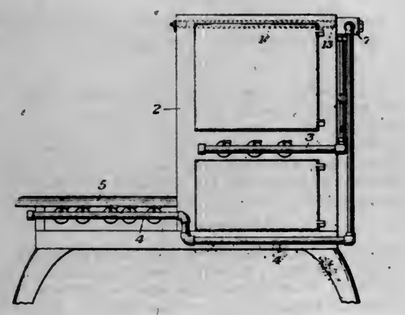
14. In a plow of the character described, a frame, a guide yoke thereon, a plow beam extending through said guide yoke, power means for raising said plow beam, and a manually releasable latch incorporated in said guide yoke and normally extending across the guide space thereof for holding said plow beam in elevated position said plow beam adapted upon release by the latch to move by gravity to its lower position independently of said power means.

1,450,755. CATAMENIAL BANDAGE. ROY R. RIDER, St. Louis, Mo. Filed June 13, 1921. Serial No. 477,119. 2 Claims. (Cl. 128—289.)



1. A device for the purpose set forth comprising front and rear buckles each consisting of a skeleton frame and an outwardly arranged and upwardly directed semi-circular hook extended from the lower bar of and disposed parallel to the outer face of the frame, said hook having its sides incut at the joinder thereof with said bar, straps connecting said frames together, and a pad element having its termini detachably mounted on said hooks and overlapped by said incut portions whereby the said element is connected with the straps.

1,450,756. GAS RANGE. FREDERICK W. ROBERTSHAW, Pittsburgh, and GEORGE A. ROBERTSHAW, Greensburg, Pa. Filed Apr. 7, 1921. Serial No. 459,359. 4 Claims (Cl. 126—39.)

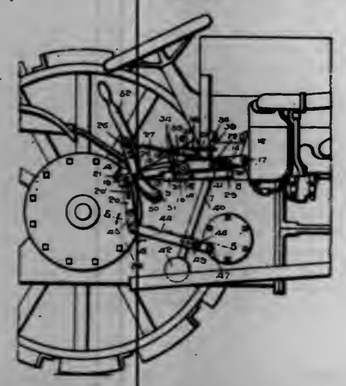


1. A gas range comprising an oven and an independent heater for cooking purposes, said range having two burner supply pipes each provided with a manual control therein and adapted to supply said oven and independent heater, respectively, a valve casing having a gas supply connection and a separate outlet connection to each of the burner supply pipes, and a thermostatically controlled valve in said casing and controlling the flow of gas to one of said outlets only, substantially as described.

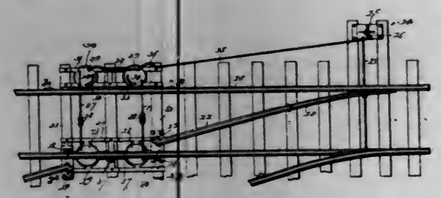
1,450,757. AUTOMATIC CLUTCH RELEASE. EDGAR S. RUSSELL, Sweet Home, Oreg. Filed May 31, 1921. Serial No. 473,701. 9 Claims. (Cl. 180—82.)

1. The combination with a tractor having a clutch controlling member, of a device carried by the tractor including means for moving said member to open the clutch, a pendulum member, a stop to limit the swinging movement

of said pendulum member in one direction, and means for holding the aforesaid means out of operation and releasable when the tractor is inclined to move the pendulum member and stop apart.

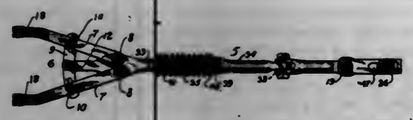


1,450,758. MONORAIL FROG. WILLIAM SCHWIER, Tacoma, Wash., assignor of one-half to Frank Haubrock, Tacoma, Wash. Filed Aug. 23, 1921. Serial No. 494,674. 8 Claims. (Cl. 246—388.)



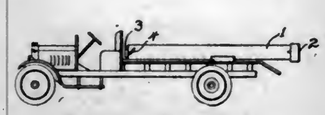
1. A monorail frog for actuation simultaneously with a switch tongue having a frog rail disposed at the intersection of the siding and main track rails for pivotal movement in a horizontal plane into aligning relation alternatively with said rails, and revoluble carrier disks respectively supporting the extremities of said frog rail and operatively connected with the switch tongue.

1,450,759. DRAWBAR FOR TOWING VEHICLES. SAMUEL W. SNYDER, Hamlet, Nebr., assignor of one-third to John H. Wable and one-third to William Hummell, both of Hamlet, Nebr. Filed June 13, 1921. Serial No. 477,048. 1 Claim. (Cl. 280—33.55.)



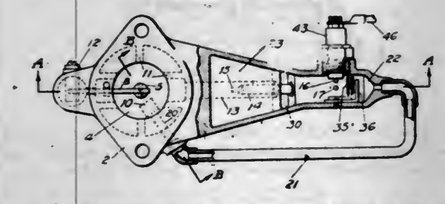
A draw bar for towing automobiles, comprising a spring held longitudinal yieldable body member having a bifurcated forward portion, the extremities of the two arms of this portion extending both above and below the body member and shaped to engage the housing of the towing machine, flexible devices cooperating with the said arm extremities to connect the draw bar with the towing machine, the two arms being pivoted to the body member, and a cross piece mounted on the body member and with which the said arms are connected and on which they are adjustable to regulate the spacing of their forward extremities.

1,450,760. METHOD OF TRANSPORTING PLASTIC MATERIAL OR CONCRETE FOR PAVING AND OTHER PURPOSES. ROBERT C. STUBBS, Dallas, Tex. Filed Oct. 17, 1921. Serial No. 508,117. 4 Claims. (Cl. 214—152.)



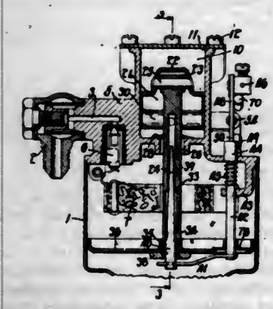
1. A method of transporting plastic material which consists in placing the material in a closed receptacle and sealing the material in the receptacle with pressure and maintaining pressure on the material in the sealed receptacle during transit whereby segregation of the particles of the material is prevented.

1,450,761. GASIFIER. WILLIAM M. SUBLETTE, Fresno, Calif. Filed Aug. 2, 1921. Serial No. 489,248. 1 Claim. (Cl. 48—107.)



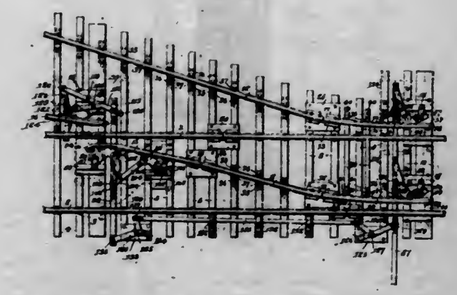
In a gasifier of the class described, adapted to be connected between a carbureter and intake manifold of an internal combustion engine, the combination of a combustion chamber with a firing means, a mixing chamber, an intake passing from a carbureter to the mixing chamber, a discharge means passing from the mixing chamber to the said intake manifold, a valve operatively positioned within the said intake and the mixing chamber, an automatic valve control means, adapted to be connected to the said valve, a vapor supply means, adapted to lead from the said intake to the combustion chamber, a nozzle adapted to be positioned between the said vapor supply means and the said combustion chamber, a vapor atomizer plate, adapted to be positioned within the said combustion chamber adjacent to the said nozzle, flame deflector screens positioned within the combustion chamber between the said vapor atomizer plate and the said firing means, and adjustable hot vapor delivery means extended between the combustion chamber and the mixing chamber.

1,450,762. CARBURETOR. CALEB E. SUMMERS, Detroit, Mich., assignor to Master Carbureter Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 6, 1917. Serial No. 184,586. 12 Claims. (Cl. 261—44.)



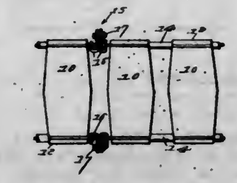
1. A carburetor comprising a mixing chamber, a fuel chamber, a suction controlled air valve in the mixing chamber, said air valve having a rear end and a forward end and being pivoted near its rear end, and a fuel pipe connected to the air valve to be moved thereby and having a nozzle extending laterally therefrom toward the forward end of the air valve, said nozzle being constructed and arranged to deliver fuel from the fuel chamber substantially midway in the air current between the forward end of the air valve and the adjacent wall of the mixing chamber at all positions of the air valve.

1,450,763. RAILWAY SWITCH. WILLIAM H. SWINDELL and LEWIS PHILLIPS, Waldo, Fla. Filed Oct. 26, 1922. Serial No. 596,996. 10 Claims. (Cl. 246—384.)



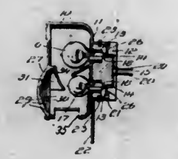
1. A railway switch comprising a lead having a switch point extending therefrom, a lead having a pair of switch points extending therefrom, a switch point leading to one of the switch points of said pair, said switch points being shiftable and capable of overlapping the track rails of a track, a clamping member associated with each of said switch points, an abutment associated with each of the clamping members, and means for simultaneously actuating said clamping members for shifting them in binding engagement with the switch points and abutments for rigidly securing the switch points in operative position with respect to the track rail sections.

1,450,764. ANTISKID-TIRE PROTECTOR. BERRY MARTIN TALLEY, Morrow, Ark. Filed Nov. 23, 1921. Serial No. 517,256. 1 Claim. (Cl. 152—16.)



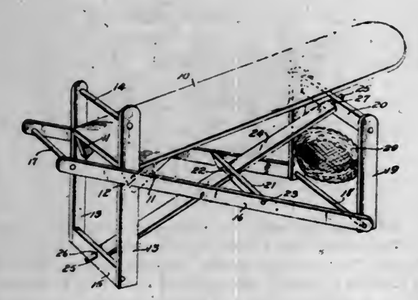
A tire protector consisting of flexible transverse tread elements in spanning relation with the tire, flexible runners to which said tread elements are secured and uniformly spaced from each other, and fasteners for the terminals of said runners consisting of complemental U-shaped members of which one leg is shorter than the other, the shorter legs being secured to the terminals of the runners and the longer legs disposed adjacent each other, and bolts spanning the longer legs to exert tension on the runners.

1,450,765. AUTOMOBILE SIGNAL. FREDERICK TRINCA and HENRY WOLF, New York, N. Y., assignors to Ever Ready Auto Signal Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 20, 1922. Serial No. 545,342. 4 Claims. (Cl. 40—132.)



3. In a signal, a lens body having a pair of signal portions each provided with a light emitting part and the remaining part thereof opaque, and said lens body further having as an inherent part thereof, means projecting rearwardly therefrom and providing an angularly extending and curved opaque element, and a lamp associated with each of said portions and said means.

1,450,766. IRONING BOARD. JESSE A. WILLIAMS, Baltimore, Md. Filed Apr. 28, 1921. Serial No. 465,100. 1 Claim. (Cl. 68—10.)

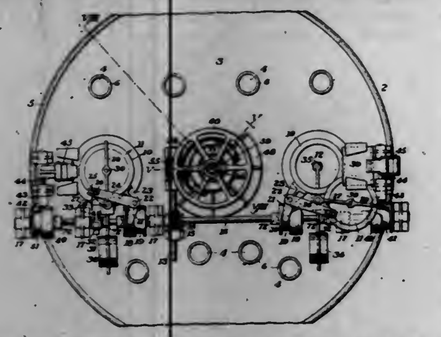


In combination with an ironing board, of a pair of ears depending from the ironing board at one end thereof, legs pivoted to said ears, a transverse member connected to lower ends of said legs and having a substantially central opening therethrough, diagonal brace members mounted on the pivots of the legs, a rod connecting said brace members at one end, other legs pivotally mounted on said rod, a transverse brace connecting the upper ends of the last mentioned legs and having a substantially central opening extending therethrough, a third transverse member connecting the diagonal braces intermediate their ends and having a centrally disposed opening and a third diagonal brace extending through the last mentioned opening and having reduced ends receivable in the previously mentioned openings.

1,450,767. GAS PRODUCER. EDGAR H. WILSON, Chartiers Township, Allegheny County, Pa., assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1920. Serial No. 405,151. 24 Claims. (Cl. 214—36.)

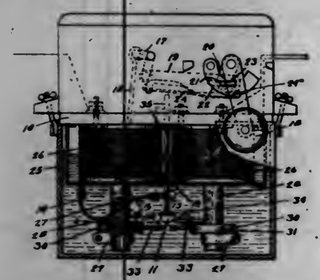
1. A gas producer, comprising a cover having a feed opening therein, a feed hopper co-operating with said

opening, a laterally movable cover for the upper end of said hopper, a closure for the lower end of said hop-



per, and mechanically operated means for periodically laterally moving said cover and moving said closure to inoperative positions, substantially as described.

1,450,768. SHORT-TIME-LIMIT SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, jr., Brookline, Mass. Filed May 17, 1917. Serial No. 169,227. 4 Claims. (Cl. 200—17.)



2. An induction motor starting and controlling device including an electric switch having starting and running positions, an operating handle movable between starting and running positions and arranged to be held in running position to hold the switch in running position and operating mechanism releasingly connecting the handle with the switch, and overload tripping means associated with the running position of the switch arranged to break the connection between the operating mechanism and handle and effect the movement of the switch to open position independently of movement of the handle from running position, said tripping means having retarding means associated with it arranged to hold the tripping means against effective operation due to the momentary overload resulting when the switch is thrown from starting to running position, and effect its operation to trip the switch upon overloads having characteristics substantially exceeding those of the aforesaid momentary overload.

3. An electric switch comprising a casing adapted to contain oil, stationary and movable switch members immersed in the oil in said casing, operating mechanism arranged releasingly to hold the switch closed, and overload switch-tripping means having fluid-governed retarding means associated with it also contained in said casing and immersed in the oil therein.

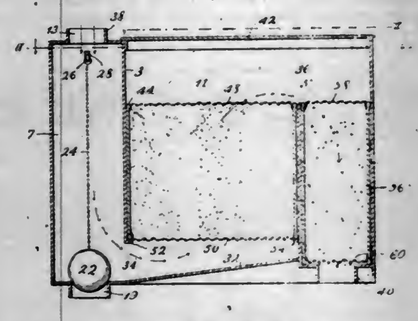
1,450,769. TIRE-DEFLATION SIGNAL. RAYMOND A. CROSBY, Holyoke, Colo. Filed Apr. 17, 1922. Serial No. 553,513. 7 Claims. (Cl. 116—34.)

4. A tire deflation signal comprising a tube, one end of which is engageable over a valve stem of a tire, a plug in the tube providing an air passage, the tube having a whistle opening, a tubular guide secured to the plug and projecting toward said end of the tube, the end of the guide opposite to the plug being contracted, a rod slidable through said contracted end of the guide and



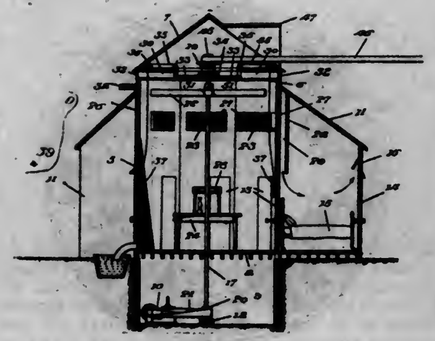
having an enlargement slidable in said guide, the projecting portion of the rod having a portion to bear against the end of a valve rod in said stem, and a coiled spring surrounding said guide and confined between said plug and the last named portion of said rod.

1,450,770. SANITARY SELF-CLEANING FILTER. PHILLIP S. FRICK and CLAUDE E. ROBINSON, Oswego, Kans. Filed Feb. 17, 1919, Serial No. 277,529. Renewed Sept. 7, 1922. Serial No. 586,804. 1 Claim. (Cl. 210—92.)



A filter consisting of a container having an inlet at one end, an outlet at its opposite end, and an inclined bottom portion, an imperforate partition adjacent the inlet and extending downwardly to a point adjacent the bottom of the container, a second imperforate partition adjacent the outlet and extending upwardly to a point adjacent to the top of the container, a removable receptacle for filtering material having screened top and bottom portions and supported above the inclined portion of the bottom of the container by the partitions, a second removable receptacle for filtering material having screened top and bottom portions and disposed between the second partition and the adjacent end of the receptacle, and a removable cover for the container to permit access to the removable receptacles, for the purpose set forth and described.

1,450,771. VENTILATION SYSTEM. WILLIAM BAXTER GLISSON, Rutherford, Tenn. Filed May 4, 1921. Serial No. 466,856. 3 Claims. (Cl. 98—27.)



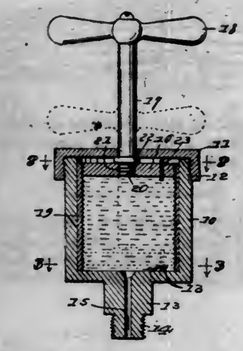
1. A structure of the character described comprising a central room and a plurality of other rooms radiating therefrom, with openings between the central and radiating rooms, a rotary fan within the upper portion of the central room for directing air downwardly in the central room from above said openings with a whirling motion, and an L-shaped deflector within the central room extending along the lower edge and one end of each of said openings whereby part of the downwardly whirling current of air is caught by the deflectors and directed through said openings into the radiating rooms.

1,450,772. MILK-BOTTLE RECEPTACLE. NICHOLAS GRANDE, New York, N. Y. Filed Mar. 3, 1922. Serial No. 540,715. 3 Claims. (Cl. 232—41.)



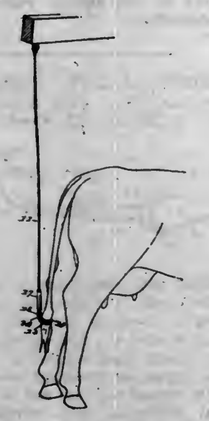
1. A milk bottle container embodying a casing provided at its top with a receiving opening, a slide mounted for sliding movement on the inner side of said top and adapted to be slid into and out of registration with the opening to seal or unseal the same, a bell crank provided with arms of unequal length and pivoted at its elbow within the casing with its shorter arm directly beneath the receiving opening in the top of the casing and its longer arm positioned at substantially right angles to said shorter arm and having pivotal connection with the slide, the bell crank being normally positioned to retract the slide, whereby a bottle dropped through the receiving opening in the top of the casing will fall directly upon the shorter arm of the bell crank and the weight of said bottle will cause the bell crank to be tilted to automatically move the slide into registration with the opening to seal the same, and a normally locked door in said casing adapted to be opened by the housewife to permit of removal of the bottle and the resetting of the parts into bottle receiving condition.

1,450,773. HARD-GREASE CUP. FRED C. GRANT, Sangerville, Me. Filed June 3, 1921. Serial No. 474,635. 2 Claims. (Cl. 184—38.)



1. A grease cup having an outer casing provided with a removable lid or cover, an open ended sleeve removably fitted in the casing, a follower fitted in and having threaded engagement peripherally with the sleeve, an operating stem extending through the lid or cover and having a threaded engagement with the follower, and means for preventing reverse rotary movement of the follower to permit of unscrewing the stem therefrom.

1,450,774. COW-TAIL HOLDER. JOSEPH HARRING, Louisville, Ky. Filed May 16, 1922. Serial No. 561,501. 3 Claims. (Cl. 119—105.)



1. A cow tail holder having a yieldingly supported clasp for engaging a cow's tail, said clasp consisting of a flexible band provided with a staple and having a plurality of eyes for selective engagement with said staple, and a key engageable with the staple to hold the selected eye in place thereon and displaceable by a strain on the clasp.

1,450,775. GAME TRAP. JARDER HARDAWAY, Pittsburgh, Pa. Filed Aug. 25, 1922. Serial No. 584,241. 6 Claims. (Cl. 42—61.)

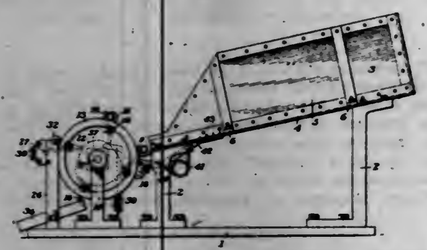
1. A trap having a cage provided with an inwardly opening spring closed door, a trip lever fulcrumed at an

intermediate point for engagement at one end with the free edge of the door, and a swinging frame connected



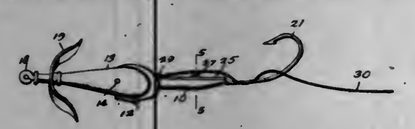
with the other end of said lever and spring impelled in a direction to cause a downward pressure of the door engaging end of said lever.

1,450,776. MARKING MACHINE. WESLEY E. HOWELL, Millville, N. J., assignor to Whitall-Tatum Company, Millville, N. J., a Corporation of New Jersey. Filed Dec. 20, 1920. Serial No. 431,875. 32 Claims. (Cl. 33—21.)



1. A marking machine, comprising a carrier for the articles to be marked, means for operating the carrier and means cooperating with said carrier for producing severance marks on the articles carried thereby, substantially as described.

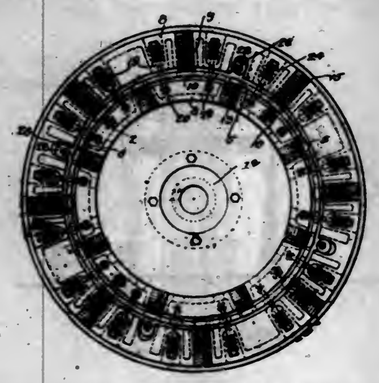
1,450,777. ARTIFICIAL BAIT. WILLIAM Q. HUMMELL, New Philadelphia, Ohio. Filed Sept. 7, 1921. Serial No. 499,102. 2 Claims. (Cl. 43—47.)



1. An artificial bait comprising a boat-shaped body portion provided with a forwardly projecting conical head decreasing in diameter forwardly, said head projecting laterally beyond the body portion, a conical cap held upon the conical head increasing in diameter rearwardly having oppositely arranged vertical flanges extending laterally beyond the rear end of the conical head for substantial distances, said vertical flanges being spaced from the body portion forming water passages between them and said body portion, said flanges being adapted to simulate the distended gills of a frightened minnow, an attaching element connected with the conical head, a spinner mounted upon the attaching element in advance of the conical head, and a hook connected with the body portion in the rear of the conical head.

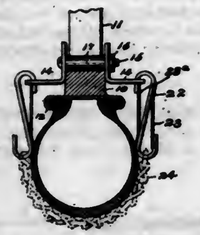
1,450,778. RESILIENT WHEEL. JOHN C. JACKSON, Philadelphia, Pa., assignor of one-fourth to Harry Grasser, Wissahickon, Philadelphia, Pa. Filed Sept. 7, 1922. Serial No. 586,711. 10 Claims. (Cl. 152—28.)

1. A resilient wheel comprising hub elements, a ring resiliently mounted on said hub elements, an outer tread bearing ring resiliently connected with said inner ring, and resilient means controlling the circumferential



movement of the said outer ring with respect to the hub elements.

1,450,779. ANTISKID DEVICE. MATHIAS J. LA RIVIERE, Waterbury, Conn. Filed Feb. 24, 1922. Serial No. 539,008. 1 Claim. (Cl. 152—14.)



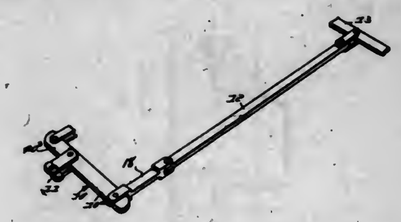
In an anti-skid device, in combination, two L-shaped members adapted to be clamped to the opposite sides of the felly of a wheel, bolts to bind said members into engagement with said felly, said bolts being spaced apart sufficiently to permit the enclosing of a spoke therebetween, cushioning means enclosing said bolts, and means surrounding the tire and detachably secured to the wings of said L-shaped members adapted to prevent skidding.

1,450,780. KNUCKLE JOINT FOR AUTOMOBILE STEERING MECHANISM. EDWARD OLSON, Mount Alton, Pa. Filed Feb. 10, 1922. Serial No. 535,564. 2 Claims. (Cl. 287—90.)



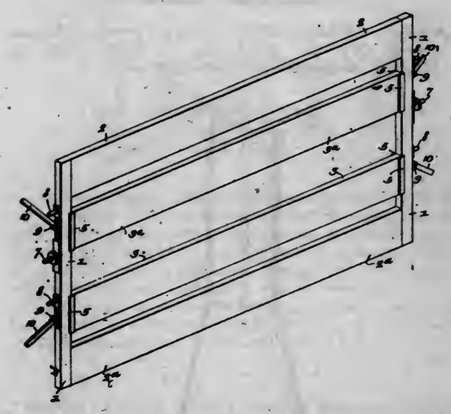
1. A knuckle-joint for the steering mechanism of automobiles comprising a yoke each member of which is provided with a round bore extending inwardly from its outer end to provide an inner bearing-seat with a slot at the inner side of the member communicating with the bore, a cross-head extending through the slots and having rounded ends seated in the members of the yoke, and yielding bearings engaging the cross-head opposite the aforesaid bearing-seats.

1,450,781. DRAFT EQUALIZER. RAYMOND E. ANDERSON, Boone, Iowa. Filed May 27, 1920. Serial No. 384,589. 1 Claim. (Cl. 278—3.)



A draft equalizer having an intermediately fulcrumed equalizing bar, an equalizer arm pivotally connected with one arm of said bar and having hitching means connected respectively with the extremities thereof, a leader bar having draft equalizing means at its forward end, and a link having bifurcated extremities straddling respectively the remaining arm of the equalizer bar and the rear end of the leader bar, the said link being reduced in thickness between the said bifurcated extremities to provide clearance space for the adjacent end of the equalizing beam.

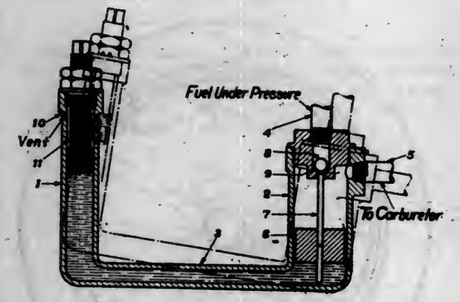
1,450,782. SKIN-DRYING BOARD. ELWOOD B. AYRES, Philadelphia, Pa., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1919. Serial No. 325,715. 2 Claims. (Cl. 149—21.)



2. The combination in a board for drying skins, of side channel members; end sections spaced apart and secured to the side members; two intermediate members having plates overlapping the side members, the end sections and the intermediate sections being on the same plane; teeth on each end of each intermediate section; and ratchet mechanism located in the side channel members for moving and holding the said intermediate sections to stretch and hold the skins attached to the frame.

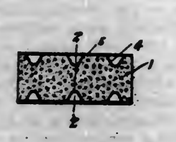
1,450,783. PRESSURE REGULATOR. BRYANT BANNISTER, Pittsburgh, Pa. Filed Oct. 8, 1921. Serial No. 506,257. 9 Claims. (Cl. 137—159.)

1. A pressure regulator for use in the fuel feed line for the internal combustion engine of a power propelled vehicle comprising a fluid containing U-tube, fuel inlet and outlet connections for one leg of said U-tube, and valve means controlling fuel inlet to said leg and arranged to be operated by the fluid in said leg; said regulator



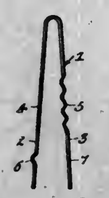
being so arranged that the relative fluid level in said legs will vary in accordance with the disposition of the longitudinal axis of the vehicle.

1,450,784. BUILDING BLOCK. JAMES BARNES, New Kensington, Pa. Filed Feb. 8, 1922. Serial No. 534,838. 6 Claims. (Cl. 72—35.)



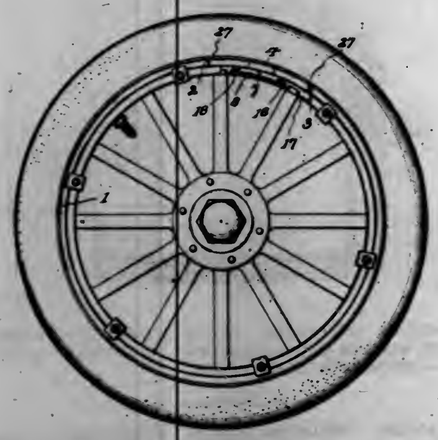
1. A building block or the like comprising a body of cementitious material, a vacuum cup imbedded in said block and opening at a face thereof, and a facing of dense material on the face of the block and lying against the open end of the cup.

1,450,785. HAIRPIN. HARRY R. BAYLIS, Seattle, Wash. Filed Dec. 1, 1921. Serial No. 519,128. 1 Claim. (Cl. 132—50.)



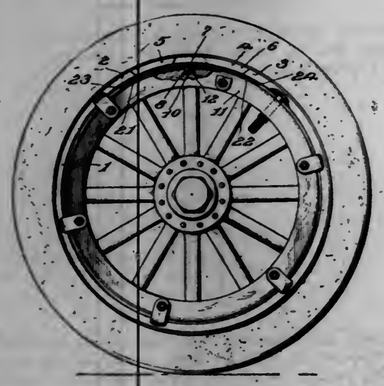
A hair pin composed of a single piece of wire bent intermediate its ends to form a pair of substantially parallel prongs, one of said prongs centrally of its length having a series of alternately disposed crimps arranged to extend edgewise of the prong and the other of said prongs centrally of its length having a series of alternately disposed crimps extended facewise of the prong, each of said prongs furthermore provided at a point between the inner one of its series of crimps and its free end and spaced therefrom with a crimp, the crimp on the prong having the edgewise disposed series of crimps extending face-wise of the prong and the crimp carried by the prong having the face-wise disposed series of crimps extending edgewise of the prong.

1,450,786. AUTOMOBILE TIRE RIM. JOHN A. BEDINGFIELD, Fort Valley, Ga. Filed Oct. 10, 1921. Serial No. 506,737. 6 Claims. (Cl. 301—31.)



1. A tire supporting rim comprising a section having an open portion or gap therein, a detachable rim section composed of relatively short sections having their free ends extending into and secured within the aforesaid open portion for completing the rim, and a hinge connection located wholly beneath the tire supporting surface of the rim and arranged to form a staggered joint with the inner ends closely abutted at all points, said hinge connection having a portion forming a driving lug.

1,450,787. AUTOMOBILE TIRE RIM. JOHN A. BEDINGFIELD, Fort Valley, Ga. Filed June 1, 1922. Serial No. 565,115. 8 Claims. (Cl. 301—32.)



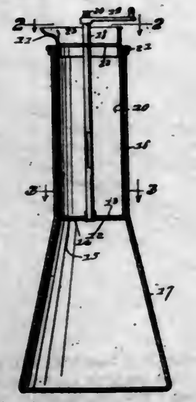
1. A tire supporting rim comprising a section having an open portion or gap therein, a detachable rim section composed of relatively short sections having their free ends extending into and secured within said open portion for completing the rim, and a hinge joint connecting said short sections, said joint including complementary projecting portions adapted to coact longitudinally of the rim to form a driving pin adapted to engage the felloe of a wheel.

1,450,788. VALVE-GRINDING TOOL. WARREN S. BELLOWS, Worcester, Mass., assignor to Walden-Worcester, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 9, 1918. Serial No. 221,404. 3 Claims. (Cl. 51—29.)



1. A valve grinding tool including a stock, a valve-engaging bit pivotally connected to said stock and provided with a plurality of studs, and a locking member mounted on said stock and adapted to engage the said studs to lock the bit against rotation about its pivot.

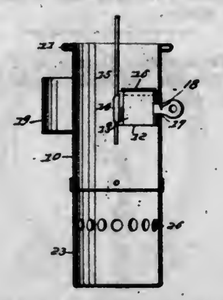
1,450,789. CREAM LIFTER. LONNIE SHELDON BENDER, Kansas City, Mo. Filed July 11, 1922. Serial No. 574,291. 2 Claims. (Cl. 65—28.)



1. A cream lifting and removing device for milk bottles having a barrel for introduction into the neck of the bottle in close relation with the side wall of the same, a cream inlet valve provided at the lower end of the barrel and a tubular stem extending axially through the barrel and operatively connected with the valve to provide for the actuation of the same and to admit air to the bottle to preclude suction in the same as the barrel is being removed.

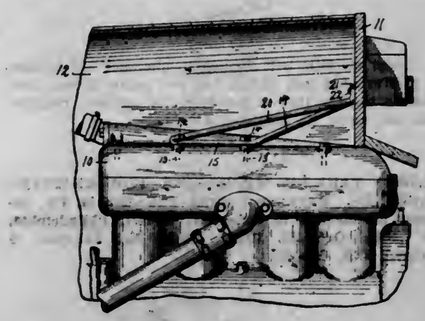
1,450,790. INCENSE BURNER. JETSON O. BENTLEY, Schenectady, N. Y. Filed July 29, 1921. Serial No. 488,337. 3 Claims. (Cl. 167—12.)

2. An incense burner having a casing and an enclosed clamp supported by the casing and consisting of jaws connected by a cylindrical axially vertical spring whereby the upper end of the spring forms a support for an incense containing pan or plate, said jaws being terminally



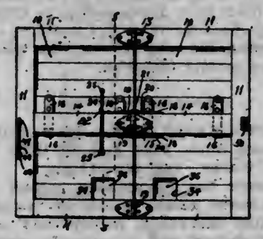
held in engaging relation at the axis of the casing and provided with seats for engaging an interposed incense stick.

1,450,791. INSTRUMENT BOARD AND ENGINE BRACE. WALTER BETHKE, Walburg, Tex. Filed Mar. 18, 1921. Serial No. 453,514. 1 Claim. (Cl. 180—54.)



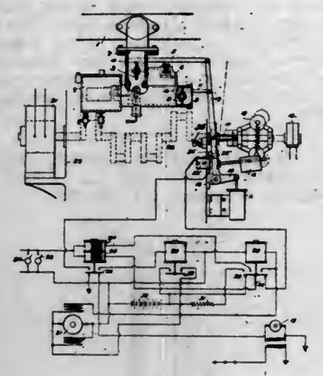
The combination with the instrument board and the motor casing of a motor driven vehicle, including the clamp bolts of the engine casing head, of a stay member perforated to engage a plurality of said bolts and held in place by the nuts of the same, a brace member extending obliquely from one end of the stay member and attached at its free end to the instrument board, and a brace member extending obliquely from the other end of the stay member and attached to the instrument board.

1,450,792. GRAIN DOOR. JOHN R. BILLINGS, JR., Durham, N. C. Filed May 13, 1922. Serial No. 560,651. 4 Claims. (Cl. 20—30.)



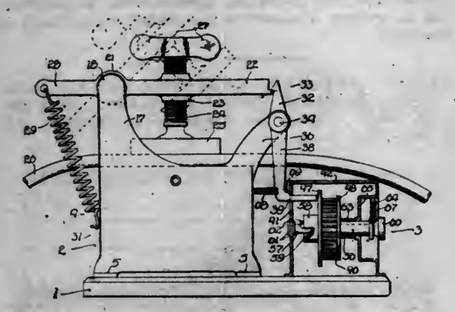
1. A grain door comprising a body portion formed of a pair of sections, means for hinging said sections together near their top and bottom edges, a locking bar comprising a pair of opposed sections hingedly united at their opposed ends and each hingedly united near each end to a door section whereby the bar sections operate to lock the door sections when in one position and permit the door sections to collapse when in their other position.

1,450,793. AUTOMATIC POWER-UNIT CONTROL. WILLIAM W. BUCHER, Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Mar. 20, 1919. Serial No. 283,912. 8 Claims. (Cl. 123—108.)



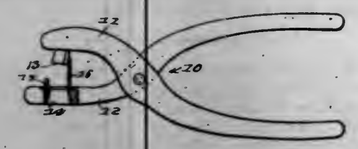
1. In speed control devices, an internal combustion engine, a carbureter connected thereto, a throttle between the carbureter and the engine, a choker valve in the air supply of the carbureter, a self regulating supplementary air supply leading to the throttle independently of the choker controlled supply, a governor actuated by the engine, and connections between the governor, the throttle and the choker for simultaneous operation to control the starting of the engine.

1,450,794. VULCANIZER. DAVID G. CHANDLER, Racine, Wis. Filed Sept. 2, 1920. Serial No. 407,617. 8 Claims. (Cl. 18—18.)



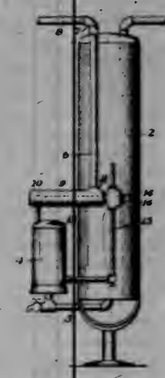
1. In a portable, self-contained vulcanizer for garage use and the like, the combination of a frame, a vulcanizing surface supported by said frame, means supported by said frame for heating said vulcanizing surface, a releasable clamping member carried by said frame and adapted to clamp the work against said vulcanizing surface, and a self-contained time-control mechanism supported entirely by said frame so as to be transportable therewith, said time control mechanism being operable to automatically release said clamping member at a predetermined time.

1,450,795. FILM-REPAIR TOOL. RUSSELL C. DOHR, Okeene, Okla. Filed July 14, 1921. Serial No. 484,657. 2 Claims. (Cl. 164—121.)



1. A tool for repairing moving picture films having pivotally connected jaws carrying complemental die members for removing the portions of a film adjacent to a broken sprocket opening thereof to form outwardly divergent free edges, one of said jaws carrying a positioning stud for engagement with the mutilated sprocket opening of the film.

1,450,796. WATER-HEATING SYSTEM. THOMAS H. DRYNAN, Sewickley, Pa. Filed Apr. 4, 1922. Serial No. 549,588. 6 Claims. (Cl. 236—33.)



5. A release chamber for water heating systems of the type embodying a heater and reservoir, comprising a casing having an opening to cooperate with the heated water outlet connection from the heater, an opening to cooperate with the circulating connection to the reservoir, and an opening to receive a thermostat, substantially as described.

1,450,797. AUTOMATIC GATE FOR RAILWAY CROSSINGS. WILLIAM H. ENFIELD, Osage, Iowa. Filed Jan. 24, 1923. Serial No. 614,605. 12 Claims. (Cl. 246—293.)



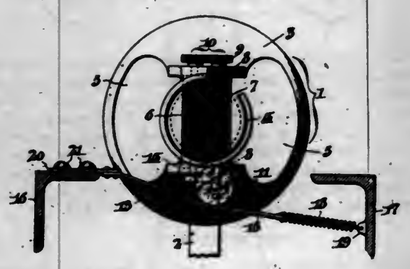
1. A guard gate mechanism for railway crossings comprising a pivoted counter-balanced gate element normally held in inoperative position and automatically movable to operative position when released, a spring controlled pivoted holding arm normally maintaining said element in inoperative position, a train actuated means connected to said arm for shifting it against the action of its controlling spring to release said element, a latching device for maintaining said arm against the action of its controlling spring when in shifted position, and a train actuated spring controlled means cooperating with said latching device for operating the latter to release said arm whereby the latter will engage said element and shift it to inoperative position.

1,450,798. FISHHOOK. WLADYSLAV FILIPOWSKI, Chicago, Ill. Filed Apr. 29, 1922. Serial No. 557,326. 8 Claims. (Cl. 43—47.)



1. A cast metallic bait formed to simulate a fish-body, with a bifurcated tail, having the two parts thereof bent oppositely to constitute a propeller for causing rotation of the bait about its longitudinal axis.

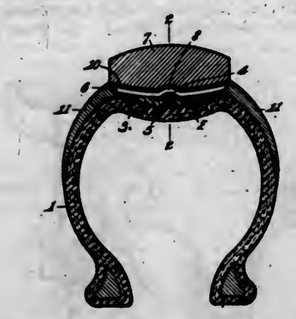
1,450,799. TAKE-UP MECHANISM FOR KNITTING MACHINES. RAYMOND FISHER, Philadelphia, Pa., assignor of one-half to Oscar W. Weisel, Philadelphia, Pa. Filed Oct. 31, 1921. Serial No. 511,648. 9 Claims. (Cl. 66—9.)



3. A fabric take up mechanism for knitting machines comprising a draft roller for engaging the knitted fabric; and a yielding drive for the roller including a disk, and a flexible member for rotating said disk through intermittent rolling contact therewith.

1,450,800. PNEUMATIC TIRE. TRUMAN D. FRAZIER, Martins Ferry, Ohio. Filed Aug. 31, 1922. Serial No. 585,344. 6 Claims. (Cl. 152—17.)

5. A pneumatic tire comprising a carcass having its tread portion bowed inward to form an external circumferential seating channel, a flexible band conformably fitted in said channel and permanently preserving the inwardly bowed configuration of said carcass, protective sheaths of rubber carried by said carcass at opposite sides of and terminating abruptly adjacent to said channel, anchor members disposed transversely on said band in circumferentially spaced relation and having their



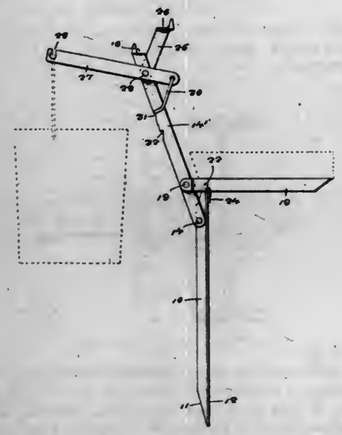
ends abutting the edges of said sheaths, and a tread member embracing said band and gripped internally by said anchor members.

1,450,801. INTERNAL-COMBUSTION ENGINE. ARTHUR N. FRISBIE, Utica, N. Y. Filed May 7, 1920. Serial No. 379,593. 1 Claim. (Cl. 123—50.)



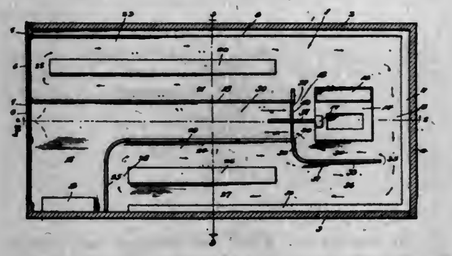
An internal combustion engine comprising a cylinder, a hollow piston mounted for reciprocation within the said cylinder and having a closed end, a hollow closure arranged within the said piston, and means for supporting the said closure whereby the latter will automatically center or line itself within the piston, said means including relatively spaced supporting arms fixed at their lower extremities to the base of the engine and having their upper extremities presenting bearings within the said closure, a pin journaled in said bearing, and a second pin arranged at right angles to the first mentioned pin having its ends journaled in bearings in the said closure member, one of said pins presenting a transverse bore in which the other pin is journaled.

1,450,802. DEVICE FOR SUPPORTING UTENSILS OVER CAMP FIRES. FRED A. FAYE, Azusa, Calif. Filed Oct. 8, 1921. Serial No. 506,428. 2 Claims. (Cl. 126—30.)



1. In a device of the class described, a standard, an element connected therewith, and foldable with reference to the standard, a foldable arm connected with said element and including a device for supporting a utensil, means for retaining the said arm in a plurality of positions with reference to said element, a member pivoted to the element connected with the standard and projecting from the standard on the side opposite to that in which the utensil is supported, and means on the standard for engaging the member so projecting.

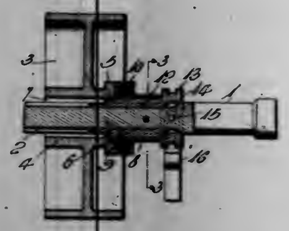
1,450,803. SELF-SERVING STORE. GROVER C. GREENE, THOMAS OSCAR TUNE, and ROBERT E. STAMPS, Nashville, Tenn. Filed Aug. 4, 1921. Serial No. 489,797. 2 Claims. (Cl. 211—8.)



1. In a self-serving store, a sales room having an entrance, an aisle extending from the entrance to a relatively remote point and substantially midway longitudinally between the side walls of the room, a checking station arranged opposite the end of the aisle and in spaced

relation thereto, means dividing the aisle longitudinally at its said end and extending from the checking station toward the entrance a distance into said aisle, whereby to define distinct entrance and exit passageways, means controlling the passage of customers through the said passageways, article storage means extending longitudinally within the space at either side of the aisle and parallel thereto and to the respective wall of the room whereby to display the articles stored thereby to customers passing through the aisle and before their entry through the entry passageway, the said storage means defining a circuitous passageway at either side of the aisle and means extending from one side of the rear end of the aisle laterally and thence rearwardly and past one side of the checking station in spaced relation thereto to define an exit passageway through which customers must pass in leaving the sales room.

1,450,804. CLUTCH. WILLIAM B. GROSS, Oxnard, Calif. Filed Apr. 28, 1921. Serial No. 465,115. 2 Claims. (Cl. 192—67.)



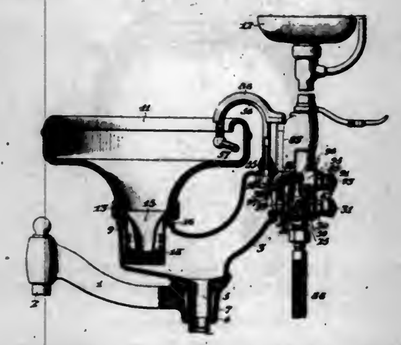
1. A device of the class described comprising a driven shaft having a longitudinal groove in one side, a pulley arranged on said shaft and including a central hub having a groove formed therein for registry with the first named groove, said hub being also formed at one end with an enlargement having a socket, a grooved guide sleeve mounted on said shaft adjacent the pulley, said sleeve having a lateral flange at its inner end extending into and rotatable in said socket, separate means for positively fixing the guide sleeve to the shaft, a retaining ring secured to the outer end of said enlargement and bearing against said flange to hold the latter in the socket, and a clutch member slidably mounted on said shaft and provided with a key slidably received in the grooves in said hub, shaft and sleeve.

1,450,805. UNIVERSAL JOINT OR COUPLING. HERBERT HART-SPRATT, London, England. Filed July 18, 1922. Serial No. 575,788. 13 Claims. (Cl. 64—91.)



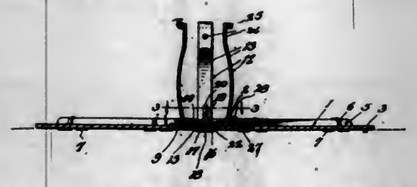
1. In combination, a pair of members each provided with lugs alternating with the lugs of the other member; elongated rollers between the lugs, each having a length approximately twice its diameter; and positioning means for holding the rollers radial to a common center and in the same plane with each other; said means including a ring engaging the outer ends of the rollers.

1,450,806. SPITTOON. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1918. Serial No. 249,041. 17 Claims. (Cl. 4—40.)



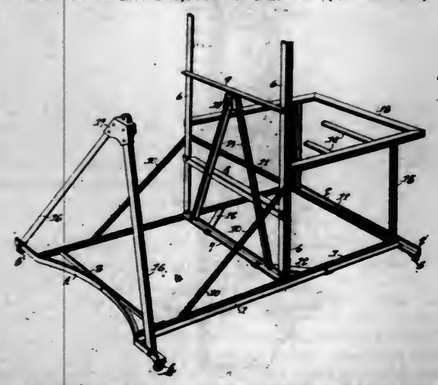
1. A spittoon of the class described, having a waste-pipe outlet, a saliva ejector having its discharge outlet leading directly into said waste-pipe outlet, and means automatically actuated to prevent gases flowing back into said saliva ejector when not in use.

1,450,807. TREE HOLDER. EDWIN G. HINES, Drums, Pa. Filed Feb. 3, 1922. Serial No. 533,870. 8 Claims. (Cl. 248—38.)



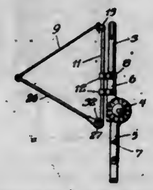
1. In a tree holder, a base member, reinforcing members on the base member, and a trunk socket detachably mounted on the base member and rotatable into and out of engagement with the reinforcing members.

1,450,808. WASHING-MACHINE FRAME. WILLIAM HAROLD HUENERGARDT, Lincoln, Nebr., assignor to Huenergardt Manufacturing Co., Lincoln, Nebr., a Corporation. Original application filed Feb. 15, 1918, Serial No. 217,364. Divided and this application filed Nov. 11, 1920. Serial No. 423,377. 3 Claims. (Cl. 68—35.)



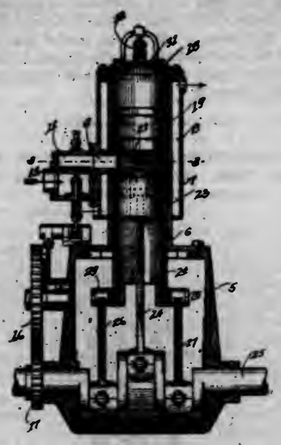
1. A frame for power driven washing machines which includes a base unit, an end standard unit, and an intermediate standard unit, said standard units being connected to the base unit, tub bearings carried by said standard units, a bench unit connected to said intermediate standard unit and to the base unit, bracing means for said intermediate unit, said bracing means comprising diagonals connected to said intermediate standard unit and to the base unit to maintain said intermediate standand unit in a plane normal to that containing the base unit.

1,450,809. VISOR FOR USE WITH AUTOMOBILES. GEORGE L. LAMB, Nappanee, Ind. Filed Jan. 20, 1922. Serial No. 530,593. 3 Claims. (Cl. 296—95.)



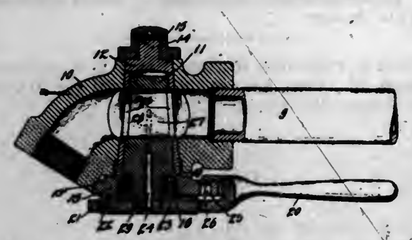
2. A visor for automobiles comprising a pair of uprights removably attached to the side portions of the wind shield frame, said uprights having forwardly projecting ears at their upper ends, a shaft journaled to rotate in said ears, a roller free to rotate on the shaft, a spring wound about the shaft and attached at one end to the roller and at the other to the shaft, a notched pin passing through the shaft, a bracket carried by one of said uprights and projecting forwardly beneath the shaft and having an edge received into the notch of the pin, a shade wound on the roller, and arms connected to the free end of the shade and adjustably pivoted to the lower ends of the uprights.

1,450,810. INTERNAL-COMBUSTION ENGINE. WILLIAM N. LONG, Springfield, Oreg. Filed Mar. 29, 1921. Serial No. 456,528. 2 Claims. (Cl. 123—50.)



1. In an internal combustion engine, a cylinder having an inlet and an outlet port combined, an outer piston movable in said cylinder, a port in said piston, said port being adapted to register with said cylinder port, a cross wall in said outer piston, an inner piston movable within said outer piston and at a point below said cross wall, a crank shaft mounted below said cylinder, and suitable cranks for imparting movement from said inner and outer pistons to said crank shaft.

1,450,811. SELF-LOCKING ANGLECOCK. ROBERT E. MCGAHEY, Alexandria, Va. Filed Jan. 29, 1921. Serial No. 441,067. 9 Claims. (Cl. 251—91.)



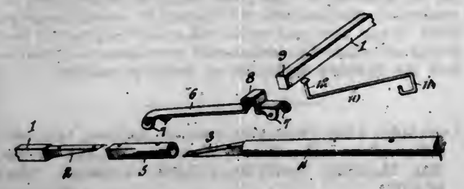
1. An angle cock comprising a body having an upwardly tapering opening, a turning plug, a sleeve interposed between the plug and the body, said sleeve being closed above the plug and provided with means for drawing the sleeve upward in said tapering opening and also provided with means for sustaining the parts in operative position, a handle beneath the train pipe and extending parallel thereto in the open position of the plug, and means for locking the handle in open position, substantially as set forth.

1,450,812. SAW SET. WILLIAM HUGO MACK, Oak Grove, La. Filed May 8, 1922. Serial No. 559,489. 1 Claim. (Cl. 76—70.)



A saw set comprising an elongated beam having means to anchor it, in a support and provided with a sloping anvil face near one end to receive the saw teeth, a yoke having legs straddling said elongated beam, a pivot passing through the inner ends of said legs and the middle portion of said beam whereby to secure the yoke to the beam and permit the swinging of the yoke from one end to the other of the beam, an upstanding head connecting the outer ends of said legs, said head having spaced lugs overlying the anvil face of the beam, a plunger mounted to reciprocate in said lugs, stop means projecting from the plunger between said lugs, yieldable means to hold the plunger normally in an elevated position, and rests projecting laterally from the beam near the anvil end thereof to receive said legs for freely supporting the same and said head.

1,450,813. TRAIN-ORDER HOLDER. JOHN J. METS, Meadville, Pa. Filed Nov. 23, 1921. Serial No. 517,337. 5 Claims. (Cl. 258—8.)



1. In a train order deliverer, the combination of a hoop formed of bendable material, a plate secured thereto and

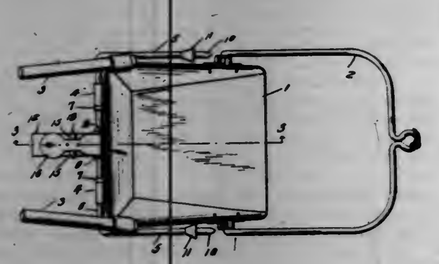
having an eye therein through which a portion of the hoop passes; said eye being slightly larger than the diameter of the member, a message clip secured to the member and constructed and arranged to relieve strain applied to the hoop.

1,450,814. FUEL-GAS MIXER. HENRY R. MICKA, Maywood, Ill. Filed Nov. 12, 1921. Serial No. 514,654. 2 Claims. (Cl. 48—180.)



1. An auxiliary fuel mixer for fuel conduits comprising a plate having a central opening which partly closes the passage of the conduit, an inner hollow frusto-conical member arranged over but not wholly closing the opening, said member having its outer reduced and closed end apertured, a second and outer hollow frusto-conical mixer arranged over but spaced away from the end of the first mentioned mixer, said last mentioned mixer having its outer reduced end apertured, and its inner edge scalloped.

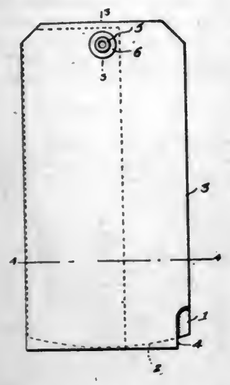
1,450,815. ROAD SCRAPER. JOHN F. NEUNABER and LOUIS E. BARTELS, Bethalto, Ill. Filed Dec. 12, 1921. Serial No. 521,743. 2 Claims. (Cl. 37—138.)



1. In combination with a shovel or road scraper, brackets extending rearwardly from the back wall thereof, a dumping device mounted in said brackets and embodying side arms and a cross piece, the latter having stops in cooperative relation with the brackets to prevent longitudinal play of the cross piece, and a latch carried by the shovel and adapted to engage said cross piece to normally hold the dumping device out of operative position.

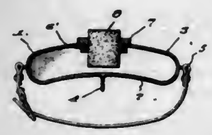
1,450,816. TAG. HENRY H. ORDUNG, Laporte, Ind., assignor of one-half to Joseph Wade, Laporte, Ind. Filed Mar. 13, 1922. Serial No. 543,498. 3 Claims. (Cl. 40—10.)

1. As a new article of manufacture, a routing or shipping tag comprising a record receiving tag, a cover enclosing said tag and pivotally connected to the tag, and an extension formed along one side edge of said cover



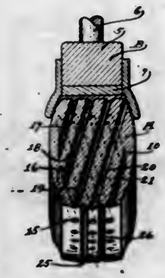
and folded between one side of the cover and said tag to provide a stop for limiting pivoted movement of said tag in one direction.

1,450,817. MOISTENER. LOUIS E. PORTER, Connellsville, Pa. Filed Jan. 14, 1922. Serial No. 529,249. 2 Claims. (Cl. 91—54.4.)



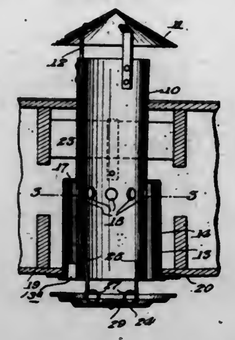
1. An envelope moistener designed to be clamped on the back of the hand of an operator, comprising a water containing body whose under face is concaved and whose outer face is convex, a rib on the under face of the body designed to be received between the fingers of the operator, and a capillary agent in the body and projecting through the outer face thereof.

1,450,818. CUSHION TIRE. CHARLES F. RISAK, San Francisco, Calif. Filed Aug. 14, 1922. Serial No. 581,800. 4 Claims. (Cl. 152—1.)



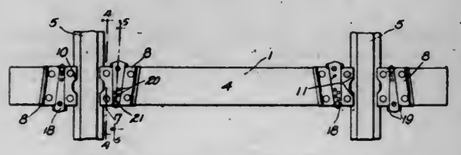
1. A cushion tire for vehicles comprising an annular body having rows of openings therethrough alternately extending in opposite diagonal relation across the tire, and the periphery of the tire having circumferentially extending grooves disposed between the rows of openings.

1,450,819. VENTILATOR. FRANK D. SAMMES, Carlinville, Ill. Filed Oct. 10, 1921. Serial No. 506,575. 1 Claim. (Cl. 98—30.)



A ventilator comprising a hollow cylindrical casing open at each end, a cone-shaped member secured to and spaced from one end of the casing, a sleeve surrounding the lower end of the casing and providing an annular passage open at the lower end and communicating with the interior of the casing by means of openings formed in the latter and a closure adjustably and removably located in the lower end of the casing for controlling the same and the open end of the sleeve.

1,450,820. COMBINED RAILROAD STEEL TIE AND RAIL FASTENER. ORESTE SAMMINIATELLI, East Toledo, Ohio. Filed Aug. 31, 1922. Serial No. 585,461. 1 Claim. (Cl. 238—352.)



A metal tie and a means for securing rails thereon, said tie being in the nature of an I-beam and having the edges of its head notched longitudinally, cushions on the head on which the rails rest, rail engaging clips having their inner edges beveled inwardly to engage the base flanges of the rail and being centrally notched to provide spaced lips, inwardly directed flanges on the ends of the clips, binding means passing through the clips, the flanges thereof and the head of the tie, said clips having their outer edges grooved longitudinally, clips having inwardly directed flanged ends received in the notch of the tie head and contacting with the end walls thereof and disposed angularly with respect to the clips, means securing the clips on the tie, said clips having their inner edges grooved longitudinally, wedge keys having longitudinal tongues received in the grooves of the opposed clips, each of said wedge keys having staggered apertures therethrough, a headed element having its shank passing through one of the apertures and contacting the edge of the tie, and a cotter pin passing through one of said apertures.

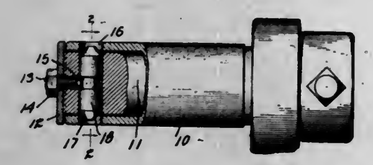
1,450,821. EASEL. CHARLES HENRI SCHUTZ, Paris, France. Filed June 6, 1921. Serial No. 475,565. 3 Claims. (Cl. 40—146.)

1. An easel for holding photographs comprising a frame adapted to receive a photograph introduced from the back of the frame, a rigid back plate adapted to serve as a support for the said photograph, a foot pivoted to the back of the said frame and adapted to hold the frame and press against the said plate, eyelets placed at both sides of the frame, journals upon the foot adapted to



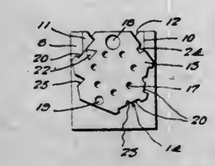
rotate in the said eyelets and serve as the pivoting axis of the said foot, the said foot being engageable with said back plate at two points, one above and the other beneath the plane of its oscillation axis.

1,450,822. FLOATING REAMER HOLDER. JAMES E. SHEUMAN, Waynesboro, Pa. Filed July 6, 1921. Serial No. 482,767. 9 Claims. (Cl. 279—16.)



1. A tool holder comprising a shank, a bushing, registering transverse apertures therein, a pin having a cylindrical portion in the aperture of the shank and having oppositely tapered ends adapted to engage the apertures in the bushing, and means to hold the pin against withdrawal, said means permitting limited longitudinal movement thereof.

1,450,823. RIFLE SIGHT. ISAAC CARLING SPENCER, Glendale, Utah. Filed Sept. 10, 1921. Serial No. 499,660. 2 Claims. (Cl. 33—54.)



1. In a firearm, the combination with a fixed front sight, of a rear sight including a spring plate having one end fixed to the firearm and the other end presenting a vertical groove, a removable plate seated in the groove, a rotatably adjustable member carried by the said plate and presenting a plurality of sight-openings, and an elevating member adjustable under the free end of the spring plate for raising or lowering the said rotatable member with respect to the said fixed front sight.

1,450,824. RAILROAD-CROSSING SIGNAL. JOHN R. STOGNER and POMEROY ADAMS, Lancaster, S. C. Filed Sept. 16, 1922. Serial No. 588,728. 5 Claims. (Cl. 246—294.)

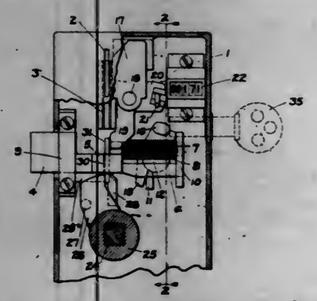
1. A signal for railroad crossings comprising a supporting structure carrying a bell, a swingably mounted blade

spring pressed normally away from the bell and carrying a clapper engageable therewith, and a train wheel oper-



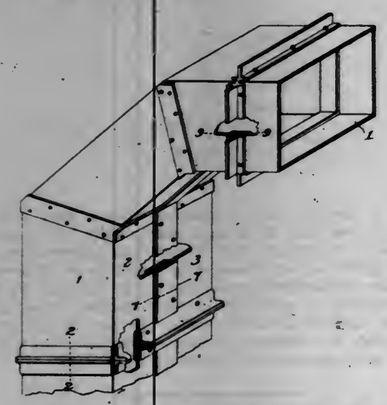
ated actuator mounted on the track and connected with the movable blade of the signal.

1,450,825. COIN-CONTROLLED LOCK. CHARLES N. VAN CLEAVE, Indianapolis, Ind. Filed Mar. 1, 1920. Serial No. 362,308. 6 Claims. (Cl. 194—74.)



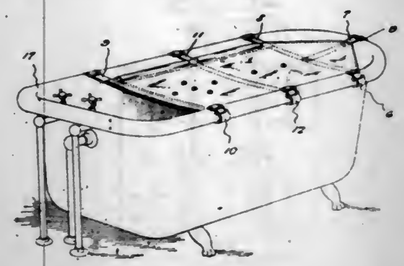
1. A lock for doors and the like comprising a casing having a slot for a coin, a bolt having a slot to receive and hold said coin, a pivoted closure for the slot in the casing, said coin adapted to contact with said closure, and means acting through the coin in the slot of said bolt to retract the bolt and to close the slot in the casing, substantially as set forth.

1,450,826. COUPLING DEVICE. MAX WALTEN, Washington, D. C. Filed Feb. 28, 1922. Serial No. 539,886. 2 Claims. (Cl. 285—201.)



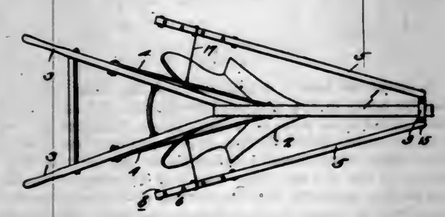
1. A sheet metal connecting device comprising connected parts one of which has parallel separated sides adapted to receive between them a sheet lying in a plane therewith, and a set screw threaded into one of said sides and adapted to bind said sheet against the other side whereby said sheet is removably held therebetween.

1,450,827. BATH TRAY. SIDNEY C. WOOD, Jamestown, N. Y., assignor to Chautauqua Hygienic Institute, Inc., Jamestown, N. Y., a Corporation of New York. Filed July 3, 1922. Serial No. 572,431. 2 Claims. (Cl. 4—2.)



1. A tray designed to be arranged in the top of and to be supported from the rimmed edge of a bath tub, comprising a fabric body of a less length than that of the tub, said body having a V-shaped end designed to be received in the rounded head portion of the tub, equidistantly spaced transverse straps stitched to the under face of the body and extending beyond the edges thereof, adjustable means on the ends of said straps to engage the beaded edge of the tub, a longitudinally arranged strap disposed centrally beneath the V-shaped end of the body, projecting therebeyond, stitched to the body and to the transverse strap adjacent thereto, means on the end of the said longitudinal strap to engage the bead at the head of the tub, and non-yieldable reinforcing elements embedded in the edges of the body between said transverse straps, all as and for the purpose set forth.

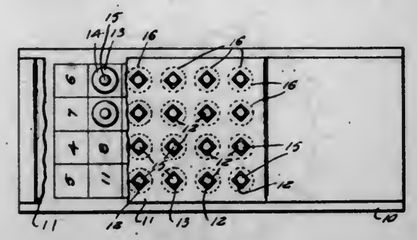
1,450,828. PLOW FENDER. ROBERT M. ANDERSON, Como, Miss. Filed Mar. 5, 1921. Serial No. 449,924. 1 Claim. (Cl. 97—188.)



A plow comprising a share, and a frame including a beam; a clamp embracing the beam and including upper and lower members having laterally projecting flanges, one flange of the lower member being provided with a depending lip disposed at an angle to the length of the beam; a securing device connecting the flanges of the upper and lower members and comprising a detachable part housed between the lower member and the lip; a bar extended along the lip; a pivot element connecting the bar with the lip for vertical swinging movement; a tie extended between the rear portion of the bar and the frame; and depending teeth carried by the rear end of the bar and located adjacent to the share.

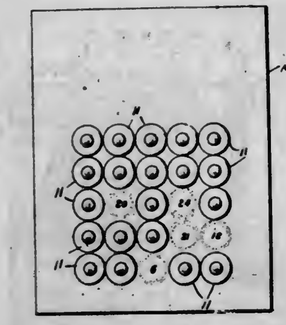
1,450,829. VENDING DEVICE. WILSON D. ANDERSON, Bremerton, Wash. Filed Apr. 25, 1921. Serial No. 464,091. 3 Claims. (Cl. 46—56.)

1. A vending device having a base, vendible articles for individual removal by vendees, said articles being disposed on said base means to indicate the winner of a contest concealed by said articles, a retaining web for said



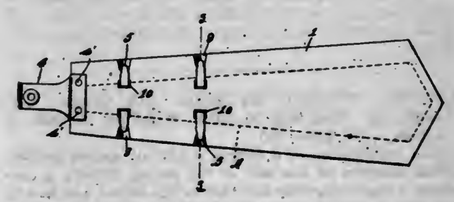
articles associated with the base and said articles extending through said web to facilitate engagement or removal.

1,450,830. VENDING DEVICE. WILSON D. ANDERSON, Bremerton, Wash. Filed Apr. 25, 1921. Serial No. 464,092. 3 Claims. (Cl. 46—56.)



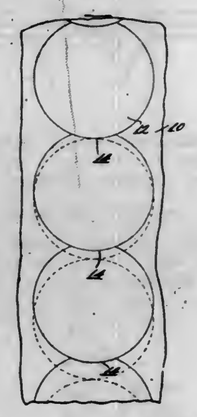
1. A vending device consisting of a base, means on said base to determine the winner of a contest, vendible articles exposed to the view of and for sale to and removal by entrants in such contest, and means removably securing said articles on the base in concealing relation to said means.

1,450,831. TIE PRESSER. WALTER H. ATWOOD, Walden, N. Y. Filed June 30, 1922. Serial No. 571,876. 1 Claim. (Cl. 100—57.)



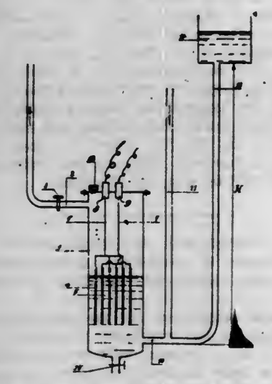
A press of the class described, comprising a top board and a bottom board, a spring clip for connecting the boards together at one end, the top board having notches in its side edges and recesses in its upper face, L shaped bolts carried by the bottom board and engaging the notches in the top board, each bolt having a projection on its extremity for engaging a recess when the bolts are in clamping position and nuts on the bolts.

1,450,832. SUNDAE DISH AND METHOD OF MANUFACTURE. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed Sept. 21, 1921. Serial No. 502,212. 9 Claims. (Cl. 229—1.5.)



1. A blank for forming receptacles comprising a circular disk having a concave notch cut in the periphery thereof.

1,450,833. STEAM-HEATING APPLIANCE. PAUL BERGEON, Grenoble, France. Filed Oct. 6, 1921. Serial No. 505,867. 1 Claim. (Cl. 219—38.)



A steam generator for steam heating appliances, containing water in which dip electrodes fed by an electrical circuit, this generator being connected at its lower part with an expansion tank full of water, the surface of which is submitted to the pressure of a compressed gas, so as to automatically regulate the production of steam.

1,450,834. MACHINE PISTOL. THEODOR BERGMANN, Gaggenau, Germany. Filed July 9, 1920. Serial No. 395,180. 3 Claims. (Cl. 42—3.)

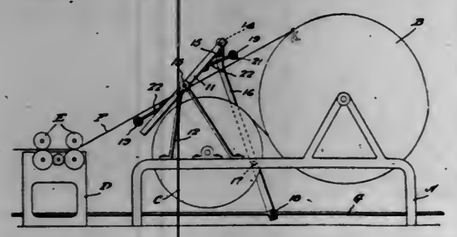
1. A machine pistol comprising in combination a stock, a barrel, a breech frame, a breech bolt, a trigger mechanism, a firing pin loosely mounted in said breech bolt and the front end of which projects from the front

end of said bolt, a spring acting directly on said pin and hence also on said breech bolt to throw said bolt and pin into firing position after each recoil, a sleeve fixed



to said breech frame and having a channel through which to feed cartridges into the barrel, and also having an opening to eject the spent cartridges.

1,450,835. YARN HOLDER. LONES BLAIR, Oakland, Calif. Filed Apr. 3, 1922. Serial No. 549,053. 4 Claims. (Cl. 28—23.)



1. In combination with a slashing machine including a drum onto which yarn passes, a size box provided with rollers between which the yarn is fed, and further including a shifting rod; a yarn holding device comprising a rectangular frame of elongated shape disposed transversely of the slashing machine and pivoted at its ends, the longitudinal axis of said frame being transverse with respect to the path of the yarn, rollers journaled at the longitudinal sides of said frame, and means connected with said shifting rod and with said frame whereby to tilt the latter to bring the rollers thereon into engagement with the yarn when the shifting rod is moved to stop the machine.

1,450,836. POWDERED MODIFIED-MILK SUBSTITUTE. ALFRED W. BOSWORTH, Boston, Mass. Filed Jan. 16, 1922. Serial No. 529,715. 6 Claims. (Cl. 99—11.)

5. A product capable of use for producing a human milk substitute, which comprises a mixture consisting essentially of: (a) a substantially dry bulky pulverulent to granular to flaky material containing an edible fatty oil, which material is capable of forming a relatively stable emulsion when mixed with water; (b) substantially dry whey solids; and other substantially dry materials, such ingredients being mixed in such proportions as to produce a product of which the dry matter has approximately the following analysis,—27.8% oil, 55.5% milk sugar, 13.9% protein and 2.8% mineral salts, such product, on mixing with water, producing an emulsion resembling normal human milk.

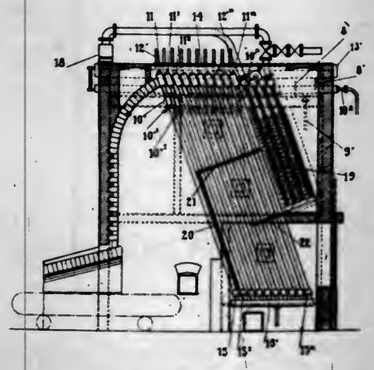
1,450,837. TRACTOR. EILERT J. BURSHEIM, Sperling, Manitoba, Canada. Filed July 29, 1921, Serial No. 488,397. Renewed Oct. 17, 1922. Serial No. 595,168. 2 Claims. (Cl. 301—44.)

2. A traction wheel, calks having threaded shanks passing therethrough, lugs on the inner face of the wheel through which the shanks also pass, nuts securing the shanks to the lugs, said lugs being projected beyond the



edges of the wheel and having their outer portions twisted and extended to provide right angularly disposed ground contacting members.

1,450,838. STEAM GENERATOR. GEORGES ALBERT BUSSAC, Paris, France. Filed July 20, 1920. Serial No. 397,692. 12 Claims. (Cl. 122—265.)

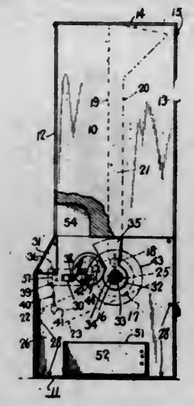


1. A steam-boiler comprising upper longitudinal feed water headers, upper and transverse collectors of water and steam, communicating means between said headers and collectors, sediment collectors arranged at the bottom of the boiler, vaporizing tubes connecting said water and steam collectors to said sediment collectors and comprising each an outer tube for the ascending mixture of steam and water and an inner tube for the descending water, upper longitudinal steam collectors connected to said steam and water collectors, and a main steam collector connected to said upper longitudinal steam collectors.

1,450,839. VENDING MACHINE. ROY CUSICK, Carnegie, Pa. Filed May 20, 1919. Serial No. 298,505. 1 Claim. (Cl. 194—70.)

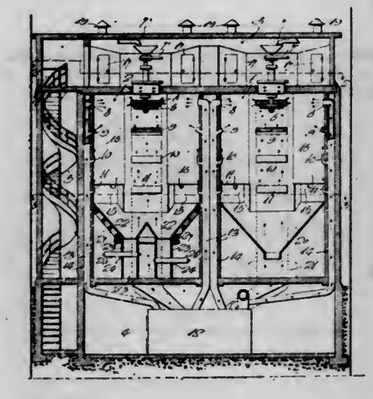
The combination of a casing, a pair of spaced parallel plates mounted at one side of the casing forming a coin chute, a shaft rotatably mounted in the casing and having one end journaled thru said plates, a collar mounted on the shaft for rotation therewith between said plates, a disk provided with a recess mounted on the shaft, a coin controlled element slidably mounted upon the outer side of one of said plates and having one end normally disposed within said recess in the disk to prevent rotation of the shaft, a projection on the coin controlled element adapted to engage a coin at one side, an extension on the collar adapted to engage said coin at its opposite side, said

projection and extension forming a retaining means for a coin placed in the chute, and means to rotate said shaft whereby said extension rotatably carried thereon will force



the coin against the opposite projection sliding the coin controlled element from engagement with the recess in the disk.

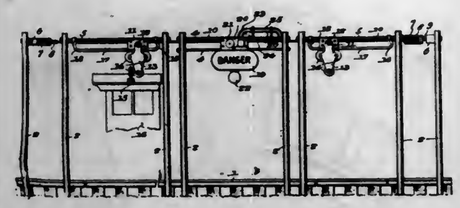
1,450,840. DEHYDRATING APPARATUS. SAMUEL M. DICK, Minneapolis, Minn. Filed Nov. 12, 1919. Serial No. 337,581. 11 Claims. (Cl. 127—9.)



1. In a dehydrating apparatus, a vertical cell, means for spraying liquid into the upper end of said cell, means at the vertical side walls of said cell for directing vertical currents of air along the inner sides of said walls to prevent the sprayed liquid from accumulating thereon, outlet means for the moisture laden air located between the upper and lower ends of the cell, and outlet means for the dehydrated product below said air outlet means and said current directing means.

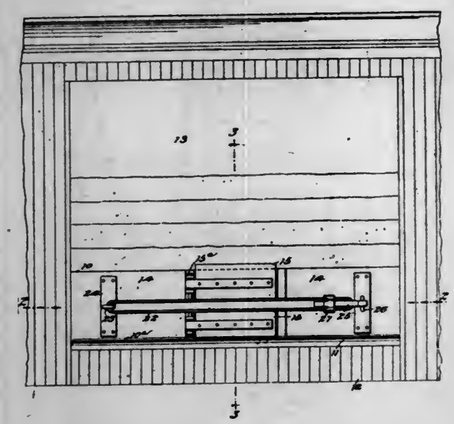
1,450,841. SIGNAL FOR RAILROAD CROSSINGS. WILLIAM DICKHART, Evansville, Ind.; John F. Pfeiffer administrator of said William Dickhart. Filed Sept. 25, 1922. Serial No. 590,390. 4 Claims. (Cl. 246—293.)

1. In a signal for railroad crossings, the combination with a signal which is movable to display and inactive positions, respectively, of an endless cable carrying said signal, and car actuated trips carried by the cable, one



being adapted for shifting the signal to display position and the other for shifting the signal to inactive position.

1,450,842. GRAIN-CAR DOOR. JOSEPH EVERETT DRAKE, Blue Rapids, Kans. Filed Mar. 17, 1922. Serial No. 544,501. 4 Claims. (Cl. 20—30.)

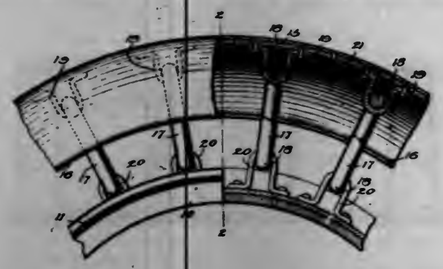


1. An auxiliary grain car door including sections hinged together and presenting an opening between the opposed ends of said sections, a closure for said opening swingably mounted on one section, a lock bar U-shaped in cross section secured to one section and adapted to overlie the outer face of said closure to lock the same in place, said lock bar serving also to hold the sections and the closure in alignment and securing means on the other section for the opposite end of said lock bar, said securing means comprising a pivoted latch adapted to lie over the free end of said lock bar and a sliding keeper to engage both the end of the bar and the latch.

1,450,843. NONPNEUMATIC TIRE. CARL A. FISK, New York, N. Y. Filed June 15, 1922. Serial No. 568,466. 2 Claims. (Cl. 152—8.)

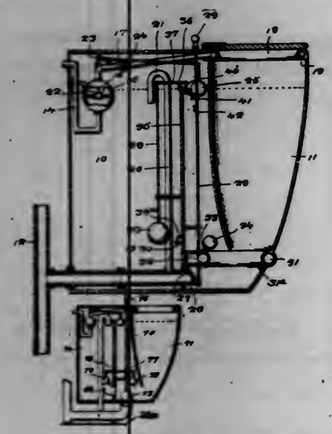
1. A non-pneumatic resilient filler for a tire shoe or casing comprising a resilient band of semi-circular configuration in cross section arranged within the shoe or casing adjacent the tread portion thereof, and a connection between said band and the tire shoe supporting rim for normally maintaining the band in spaced concentric relation to the rim, said connection consisting of inwardly disposed looped bearing members on the band, outwardly disposed looped bearing members on the rim, and a ra-

dially disposed link between each bearing member of the band and rim having the opposite bight portions thereof



respectively engaging the inner and outer bearing members, for swinging and sliding movements with respect to the bearing members.

1,450,844. PLUMBING APPARATUS. JOHN L. FLEMING, Peoria, Ill. Filed July 23, 1921. Serial No. 487,137. 1 Claim. (Cl. 4—17.)



A device of the character described comprising a tank portion and a bowl portion communicating therewith at the lower end, a check valve within said point of communication, an outlet pipe leading from the lower end of the bowl portion and adapted for connection with the waste pipe of a building, a valve normally closing the inlet end of said outlet pipe, a vertically movable rod member connected with said valve and provided above the top of the tank and bowl with an operating handle, an inlet pipe, a valve casing upon said pipe, at the upper portion of the tank portion, a valve within said valve casing adapted to close and cutoff the inlet of water thereinto, a lever arm pivotally mounted and connected with said last named valve, a float on said lever arm, latch means for holding said rod in elevated position when it has been moved to unseat said first named valve, a depending rod connected with said latch mechanism and carrying a float whereby when the water level drops to a certain degree said latch member will be released to permit said first named valve to close, and float controlled means for controlling flow of water from said tank into said bowl.

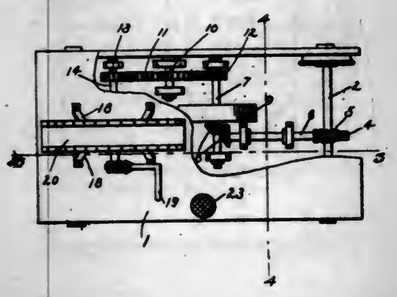
1,450,845. DRILL BIT AND COLLAR THEREFOR. JAMES P. FLOURNOY, Jr., Shreveport, La. Filed Aug. 27, 1921. Serial No. 495,998. 7 Claims. (Cl. 285—120.)

1. In well boring apparatus, the combination with a hollow tubular stem, and a hollow collar secured thereto, the said collar being provided with internal tapered screw threads in its lower end, and also with external screw threads, of a bit provided with a shank having at its upper end tapered screw threads engaging in the internal screw threads on said collar, the said shank being also provided with an annular flange below its tapered screw threaded portion, a hollow screw cap provided with an



inwardly projecting flange surrounding said shank and screwed over the external screw threads on said collar, a segmental metal packing ring made up of a plurality of segments, each L-shaped in cross section supported on said flange of said cap, and hydraulic packing held firmly between said segmental ring and said flange on the bit shank.

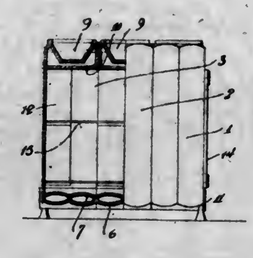
1,450,846. HAND CAR. ONEIL B. GAUDIN, Laurel, Miss. Filed July 5, 1922. Serial No. 572,819. 3 Claims. (Cl. 105—89.)



1. A hand car of the class described comprising a wheel supported platform, axles for the wheels, one of the axles having a worm gear thereon, a shaft, a worm thereon meshing with the worm gear, a second shaft, a fly wheel on said second shaft, gears connecting said second shaft with the first shaft, a driven shaft, gears connecting the same with the second shaft, a toothed hand wheel supported above the platform, a gear on the driven shaft meshing with the teeth of said wheel and a shield for said wheel.

1,450,847. COMBINED RADIATOR, STEAM COOKER, AND WARMING OVEN. CHARLES M. GEIGER, Denver, Colo. Filed Oct. 26, 1921. Serial No. 510,626. 1 Claim. (Cl. 126—20.)

The combination of a plurality of radiator sections adapted to be assembled together and having hollow interiors in open communication, one of the end sections being provided with an end wall, a horizontal shelf arranged on the interior of the sections, the said sections being provided with double side walls, double bottom walls, and double upper walls, a door hingedly connected to the opposite end section to cooperate with the opposite end



wall, side walls, bottom walls, and top walls to form an oven, and the uppermost wall of the double upper walls being provided with an inverted frustroconical receptacle adapted to receive a cooking utensil, whereby the utensil may be heated from the heat generated between the double upper walls.

1,450,848. WATCH PROTECTOR. MAX M. GETO, Brooklyn, N. Y., assignor to Watch Protector Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1921. Serial No. 490,931. 3 Claims. (Cl. 63—25.)

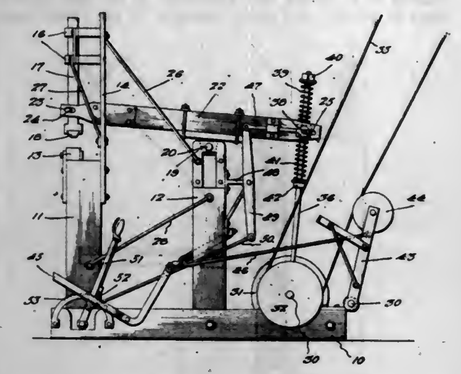


1. A watch protector which includes a casing having a cover with apertures therein, a stub shaft slidable in said casing, a spring within the casing engaging the stub shaft, said spring being expansible to hold the stub shaft retracted within the casing, the lower end of the stub shaft being provided with a plurality of longitudinal slots, a flange on the end of the stub shaft, a plurality of spears located in said slots, and a flexible ring surrounding the end of the stub shaft and the ends of the spears to hold them in said slots.

1,450,849. HAMMER. CHARLES GREEN, Muscatine, Iowa, assignor of one-fourth to Evert F. Richman and one-fourth to Charles J. Richman, both of Muscatine, Iowa. Filed June 6, 1921. Serial No. 475,523. 3 Claims. (Cl. 78—32.)

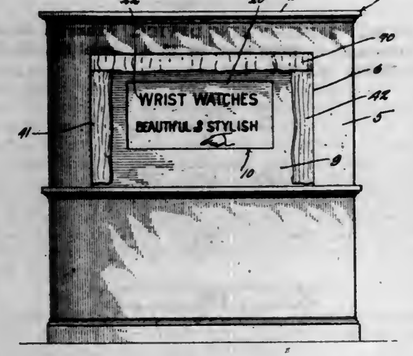
1. A device of the character described comprising a base, a pair of uprights rising therefrom, an anvil member on one of said uprights, a lever pivoted upon the other upright and having its forward end provided with a hammer cooperating with said anvil, the rear end of said lever being bifurcated and formed with longitudinal slots, a shaft journaled upon said base, means for rotating said shaft, a cam on said shaft, an eccentric strap

encircling said cam, a rod connected with said strap, a block engaged upon said rod and having trunnions dis-



posed through said slots, and means for moving said trunnions along said slots whereby to vary the leverage upon said lever.

1,450,850. CHANGEABLE EXHIBITOR. MARTIN A. GAIP, Chippewa Falls, Wis. Filed Sept. 7, 1922. Serial No. 586,751. 3 Claims. (Cl. 40—32.)

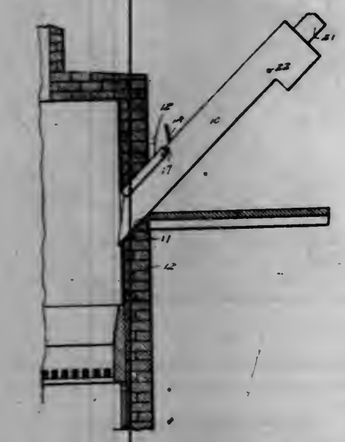


1. In a device of the class described, a frame; shafts journaled in the frame; a display belt engaged with one shaft; a gear wheel on said shaft; a segment carried by the other shaft and adapted to move into and out of engagement with the gear wheel; a curtain slidable on the frame and constituting a shield for the belt; and means for operating the curtain from the last specified shaft.

1,450,851. FURNACE STOKER. HENRY D. GROSS, Kennett, Mo. Filed Oct. 4, 1920. Serial No. 414,565. 1 Claim. (Cl. 214—35.)

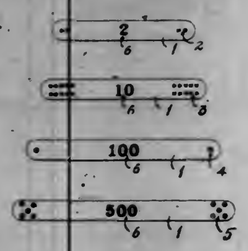
A furnace stoking apparatus comprising a chute adapted to have its discharge end in communication with a furnace fire box, a yielding feed regulating damper disposed in a forwardly and downwardly inclined relation to the path of travel of the fuel and pivotally mounted in a plane above the bottom of the chute, an adjustable extension carried by said damper whereby the angle of inclination of the damper may be varied and thereby vary the retarding action of the damper, a second damper arranged to intercept and regulate the passage of fuel to the inclined damper, the receiving end of the chute having

its bottom cut away, a reversible trap pivoted to the side walls of the chute adjacent the cut away portion and adapted to be moved into a position at an angle to the chute to prevent fuel being deposited in the chute when



the trap is in one position and thereby prevent overstoking of the furnace, and said trap adapted to form a part of and an extension for the chute when the trap is in its normal position.

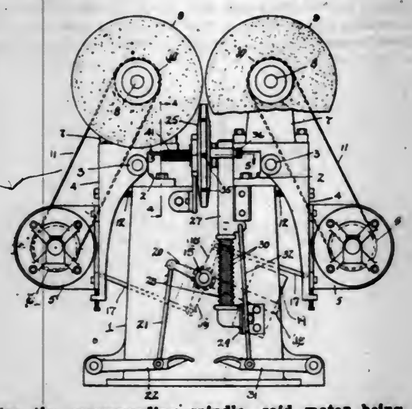
1,450,852. GAME-SCORING DEVICE. ALBERT B. HAGER, Manila, P. I. Filed Sept. 25, 1922. Serial No. 590,430. 1 Claim. (Cl. 235—1.)



A game counter consisting of a plurality of relatively long and thin counting pieces arranged in series with the pieces of each indicated value differing in length from the pieces of the other values and each having at both its ends the same value indicating character, each of the indicating characters of each piece corresponding in value with the length of the piece to which they are applied and the several pieces being adapted by reason of the relatively long and thin form thereof to be grasped in a bunch in the hand and when so grasped to cause them to expose at the exposed end of the respective pieces the indicating characters thereon, all substantially as and for the purposes set forth.

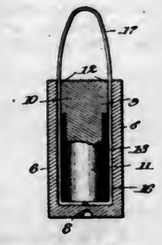
1,450,853. MACHINE FOR POLISHING AND GRINDING. CHARLES L. HAWES, Ashtabula, Ohio. Filed Nov. 26, 1919. Serial No. 340,710. 16 Claims. (Cl. 51—83.)

1. In a machine of the character described, the combination with a suitable base; of two arms oscillatorily supported thereon about spaced parallel axes; a spindle mounted on each arm above and parallel with its axis, adapted to receive a polishing or grinding wheel, said spindle being adjustable transversely of such axis in an approximately horizontal plane; and an electric motor mounted on each arm below its axis and connected to



drive the corresponding spindle, said motor being adjustable transversely of such axis in an approximately vertical plane.

1,450,854. IDENTIFICATION DEVICE. ARTHUR B. HENNECH, New York, N. Y., assignor to Arthur Trading Corporation, New York, N. Y. Filed June 16, 1922. Serial No. 568,842. 2 Claims. (Cl. 40—19.)



1. A device of the class described, comprising a barrel opened at one of its ends, a plug inserted in the barrel, said plug having a reduced extension, an identification sheet wound about the extension of said plug, one end of said sheet being attached to the plug, the other end of said sheet being attached to the interior wall of the barrel, a strap passed about said plug and extending out of said barrel to form an attaching loop, and means for hermetically sealing the identification sheet within said barrel.

1,450,855. FLYTRAP. JAMES W. HILDRETH, Marion, Ohio, assignor of one-half to Ward C. Hufford, Marion, Ohio. Filed June 19, 1922. Serial No. 569,188. 4 Claims. (Cl. 43—119.)



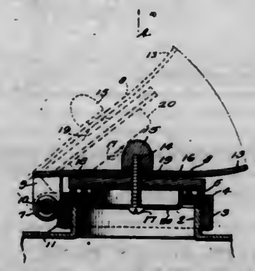
1. A fly trap including a rear support adapted to fit against a fly screen and provided with a groove arranged

to receive the top bead of the screen frame, said rear support being also provided with a transverse series of tapered blocks fitting between the side beads of the fly screen and forming intervening tapered entrances, the said groove and the block interlocking the rear support with the fly screen against vertical and lateral movement, fastening means for detachably securing the rear support to the screen frame, a receptacle mounted on the rear support, and conical trap members located within the receptacle and communicating with the tapered entrances and provided with outlets communicating with the interior of the said receptacle.

1,450,856. NONCONDUCTING MATERIAL. ROBERT ILLEMANN, Glasgow, Scotland. Filed June 3, 1920. Serial No. 386,353. 6 Claims. (Cl. 106—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

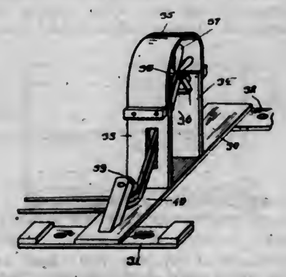
1. The method of making porous, non-conducting material suitable for covering steam boilers and for like purposes, which comprises mixing together calcined gypsum and an excess of water, then intermittently agitating the mixture until a plastic spongy mass is produced by the absorption of the excess of water, and finally evaporating the water so as to leave an air filled mass.

1,450,857. CLOSURE. ALBERT H. JOHNSON, Washington, D. C. Filed Nov. 9, 1921. Serial No. 514,049. 5 Claims. (Cl. 220—24.)



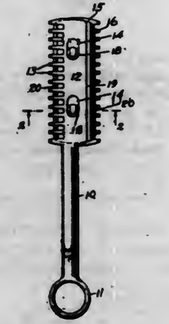
1. A closure member comprising a base having an opening therein, a hinged member mounted on said base, a pin movably secured to said hinged member, and a cap carried by said pin and adapted to close said opening, said cap being provided with a rounded portion on one face surrounding said pin and contacting with said hinged member to permit it to center itself over said opening.

1,450,858. COOLING DEVICE FOR POWER-TRANSMISSION JACKS. GEORGE W. KIRKPATRICK, Rochester, N. Y. Filed Oct. 10, 1921. Serial No. 506,914. 2 Claims. (Cl. 230—11.)



1. In a cooling device for power transmission jacks, the combination of an air tunnel, an inverted V shaped bracket suspended within said air tunnel, a bearing formed on said V shaped bracket, a spindle mounted to rotate in said bearing, a pulley and fan mounted on said spindle, a base for supporting said tunnel, an inclined bracket mounted on said base on one side of said tunnel, a pulley mounted to rotate on said inclined bracket between it and said base, said tunnel having an opening in the side thereof adjacent to said pulley mounted on said inclined bracket, a belt passing through the opening in said tunnel from said pulley on the outside of said tunnel to said pulley on the inside of said tunnel.

1,450,859. SAFETY RAZOR. FERDINAND KULHAWY, West Hoboken, N. J., assignor to Comfort Safety Razor and Novelty Co. Inc., West Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 28, 1921. Serial No. 465,122. 2 Claims. (Cl. 30—12.)



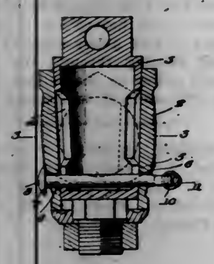
1. A device of the character set forth including in combination a blade having cutting edges at its opposite sides and a holder therefor which comprises a pair of guard members each having guard teeth at one edge and between which members the blade is adapted to be arranged, interengageable means on said guard members for associating the same with each other to dispose the guard teeth on opposite sides of one of the cutting edges of the blade to provide a hair trimmer, or for reversing the arrangement and holding said members reversed to dispose the guard teeth respectively at one side of each of the cutting edges of the blade to constitute a double edged safety razor.

1,450,860. HAIR-WAVING COMB. CHARLES LAUFE, New York, N. Y. Filed Sept. 22, 1922. Serial No. 589,957. 2 Claims. (Cl. 132—38.)



2. A comb comprising an integral structure having a longitudinally channelled back, and teeth extended from both edges thereof, the teeth extending from the rear edge being short and set at substantially ninety degrees from said back, and the teeth extending from the forward edge of said back being downwardly curved and relatively long for insertion in the human hair.

1,450,861. STOPCOCK. ROBERT M. MANNING, Hewitt, Okla. Filed June 18, 1921. Serial No. 478,715. 2 Claims. (Cl. 251—6.)



1. A locking means for preventing the turning of a plug in the body of a stop cock, and likewise for providing an outlet for fluid accumulated in the fluid passage of said plug, comprising a pin which is passed transversely through the body of the cock and through a notch in the lower wall of the fluid passage in the plug, and removable means locking the pin so positioned.

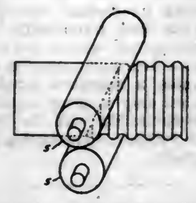
1,450,862. HEADLIGHT ATTACHMENT. CORAL A. NELSON, Binghamton, N. Y. Filed Mar. 23, 1922. Serial No. 546,092. 1 Claim. (Cl. 240—48.4.)



The combination with a headlight lens and its supporting frame, a supporting band secured between the front part of the supporting frame and the marginal edge portion of the lens, a headlight visor having an opening circular in front elevation, said opening being eccentric to the center of the lens and tangential to the bottom of the supporting frame, the visor inclining downwardly at its upper part, a second visor tangential to the upper part of the supporting frame and inclined downwardly with the top portion in parallelism to the first visor and its center eccentric thereto, and a third visor positioned intermediate the first two visors and inclined downwardly with its top portion in parallelism to the top portion of said visors, the third visor being arranged with its center eccentric to the other two visors.

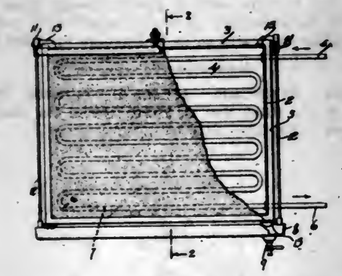
1,450,863. PROCESS OF OPENING SHEET AND TIN-PLATE PACKS. WILLIAM NEWBY, Youngstown, Ohio. Filed Aug. 27, 1920. Serial No. 406,437. 3 Claims. (Cl. 29—19.)

2. The method of opening sheet tin plate packs consisting of passing them through a pair of crimping rolls and then passing them through a pair of flattening rolls placed at an angle less than a right angle to the crimps



whereby the rolls will span two or more of the crimps but not all of the crimps in the pack.

1,450,864. PROJECTING SCREEN. JOHN W. PECK, Jr., New York, N. Y. Filed Dec. 3, 1921. Serial No. 519,618. 8 Claims. (Cl. 88—24.)

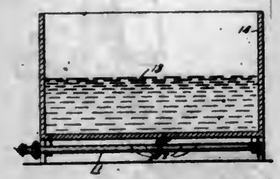


1. As a new article of manufacture, a projecting screen for motion pictures, including an artificially cooled sheet of material adapted to collect frost.

1,450,865. WATER-SOLUBLE PRODUCT AND PROCESS OF MAKING THE SAME. JOSEPH PELC, Cicero, Ill. Filed May 5, 1922. Serial No. 558,786. 9 Claims. (Cl. 23—11.)

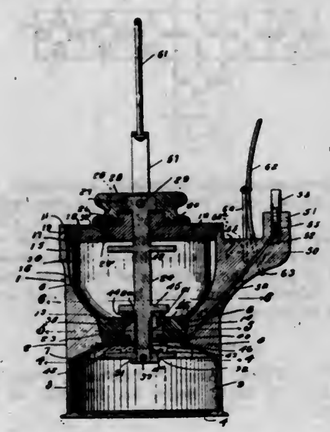
1. The herein described water soluble product consisting of a hard, dry, porous mass which is stable in the absence of moisture, comprising an active principle and a vehicle consisting of effervescing salts which have reacted together to produce a limited amount of carbon dioxid but which are capable of further reaction to produce additional carbon dioxid.

1,450,866. METHOD OF PREPARING FRUITS AND VEGETABLES FOR SHIPMENT. THOMAS JEFFERSON PETERS, Peters, Fla. Filed Aug. 8, 1918. Serial No. 248,923. 2 Claims. (Cl. 99—11.)



2. The method of treating fruit such as tomatoes, peaches and citrus fruit which consists of immersing the fruit in water for a period of from 15 to 90 seconds, the temperature of the water being approximately 125° F. to effect a partial sterilization of the broken places on the fruit and subsequently removing the fruit from the water at which time there is a partial evaporation of the water from the peeling and the fruit is retained in its natural state for shipment.

1,450,867. CARBIDE LAMP. LOUIS E. POLHEMUS, Miami, Ariz. Filed July 15, 1919. Serial No. 310,950. 4 Claims. (Cl. 48—4.)



3. A distributing mechanism having a distributing plate, a plurality of means to discharge material therefrom at different distances from its marginal edge, a plurality of discharge means for communication with said first means, and means operable to successively effect communication between a source of supply and said second mentioned discharge means.

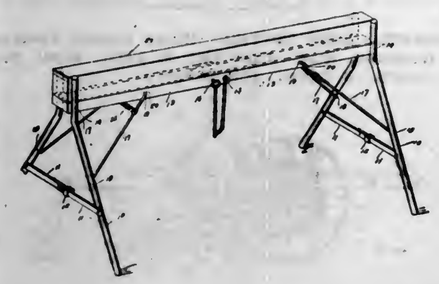
1,450,868. ELEMENTARY-MUSIC-NOTATION DEVICE. CARY H. RANDOLPH, St. Louis, Mo. Filed Oct. 7, 1921. Serial No. 506,186. 4 Claims. (Cl. 84—476.)



3. An integral block formed to represent the musical staff, the block having spaced portions with substantially flat surfaces to represent lines and intermediate portions with curved surfaces to represent spaces, said substantially flat surfaces and curved surfaces extending in the same direction, and means in said portions to support note-representing means.

1,450,869. CARPENTER'S FOLDING SAWHORSE. WILLIAM WESLEY REINELT, Deckerville, Mich. Filed Apr. 30, 1920. Serial No. 377,856. 1 Claim. (Cl. 304—5.)

A folding saw horse having a base, a pair of legs adjacent to each end of and pivoted to said base on a substantially horizontal axis, a beam to removably rest on said base, said legs having substantially straight portions extending above said base to retain said beam thereon, the faces of said portions presented toward the sides of said beam being smooth throughout their extent, said legs spreading outwardly below and from said base,



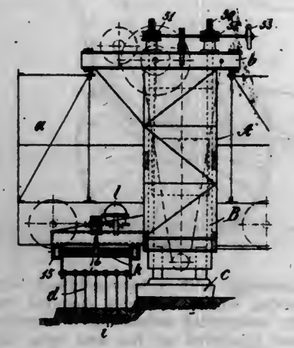
and brace members pivoted to the legs on substantially horizontal axes at a distance below said base and being separably engageable with said base at a distance from its ends.

1,450,870. VAPOR STOVE. JAMES E. SANDERS, Great Falls, Mont. Filed July 7, 1921. Serial No. 482,979. 2 Claims. (Cl. 126—38.)



1. In a stove, a casing, a burner within the casing a closure hinged at one end to the upper edge of one end wall of the casing, the end of the casing opposite to said wall being open, and an end piece hinged to the other end of the closure whereby it may rest on the base of the casing to constitute the wall for said open end when the closure is in closed position or may support the closure when in an open position so that the closure may constitute a support for utensils.

1,450,871. APPARATUS FOR MAKING OPEN MOLDS. EDUARD SCHIEGRISS, Duisburg-Meiderich, Germany. Filed Jan. 25, 1922. Serial No. 531,685. 19 Claims. (Cl. 22—20.)



1. In an apparatus of the class described, the combination, with a frame, of means for dressing the mold bed, a horizontal mold pattern located beside the dressing means and in position for making molds in the mold bed, means to move said pattern into position above the dressed

bed, and means to exert pressure on the mold pattern for forcing the same vertically into the dressed mold bed, said dressing and pressure exerting means being adapted for simultaneous operation on different parts of the bed.

1,450,872. BEET TOPPER. HARRY LEMUEL SPARKS, Huntsman, Nebr. Filed Mar. 2, 1922. Serial No. 540,475. 6 Claims. (Cl. 55—107.)



1. A device of the type described comprising a frame, an axle carried by said frame, wheels carried by said axle, and being adapted to rotate said axle in one direction, a beet-top cutting drum, a drum supporting frame having one end pivotally connected to said axle and having its other end secured to said drum, a pair of shoes carried by said second named frame and being adapted to lift said drum, said shoes being disposed one on each side of said drum.

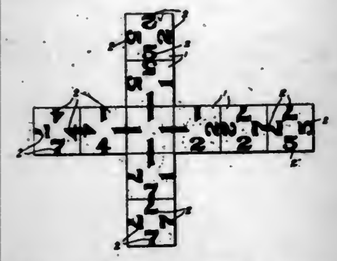
6. A device of the type described comprising a frame, an axle carried by said frame, means for rotating said axle in one direction, a beet-top cutting drum frame pivotally carried by said axle, a shaft carried by the free end of said second named frame, a beet-top cutting drum carried by said shaft, a large pinion loosely carried by said axle, a small pinion loosely carried by said shaft, a chain connecting said pinions, a clutch for connecting said large pinion to said axle, and an automatic clutch for connecting said small pinion to said shaft, whereby said drum is free to stop from rotating when striking an obstacle.

1,450,873. BRAKE FOR BABY CARRIAGES. RAYMOND C. STARBARD, Paterson, N. J. Filed Mar. 11, 1922. Serial No. 542,982. 4 Claims. (Cl. 188—20.)



1. In combination with a baby carriage including a rear axle having wheels rotatably mounted thereon, a braking device comprising notched disks attached to the wheels, means supported on the axle upon which the handle is fulcrumed, means associated with the handle for engaging the notched disks and adapted to be removed from engagement with said disks when the handle is pressed downward, and means for normally retaining the disk engaging means in engagement with the disks when the handle is released.

1,450,874. GAME APPARATUS. KARL OTTO STROMME, San Bernardino, Calif. Filed Apr. 19, 1921. Serial No. 462,574. 2 Claims. (Cl. 46—65.)



1. A game apparatus, comprising a plurality of rectangular blocks, each provided on one face with four numerals, one at the center of each of its sides, the numerals of certain of the blocks being all alike and the numerals of each of the other blocks being different and arranged in pairs, the numerals of the pairs being alike and the numeral of one pair being different from the numerals of the other pair.

1,450,875. PLIERS. ALEX P. TESELSKY, Ruso, N. Dak. Filed June 14, 1921. Serial No. 477,416. 13 Claims. (Cl. 294—86.)



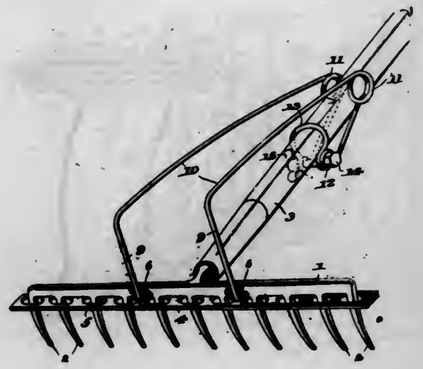
1. A tool of the class described having relatively movable lever members providing coacting jaws, a shank having a coacting jaw in spaced relation to said jaws and arranged to grip an object simultaneously therewith.

1,450,876. DIRECTION SIGNAL AND PARKING LIGHT FOR VEHICLES. EDWARD VOELKER, St. Louis, Mo. Filed Dec. 27, 1921. Serial No. 524,989. 2 Claims. (Cl. 116—49.)



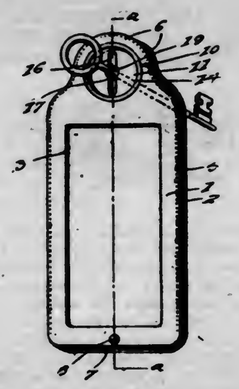
1. In a device of the character described, the combination of an elongated rotary frame which is rectangular in cross section, a pair of relatively long windows arranged in parallel planes at opposite sides of the frame, a cylindrical extension from one of the plane sides of the frame which is at right angles to the two windows which is of a diameter relatively much less than the length of either of said windows, a window in said extension, a bracket for supporting the frame for rotary movements on its longitudinal axis, an axial member supporting one end of the frame in said bracket, a cylindrical hub rigid with the opposite end of the frame and journaled in said bracket, a lamp socket in said hub, a lamp supported by said socket within the frame, a circuit for said lamp, and means for rotating said frame in said bracket.

1,450,877. ATTACHMENT FOR RAKES. GUSTAVUS A. N. WAHLEN, Louisville, Ky. Filed May 7, 1920. Serial No. 379,550. 1 Claim. (Cl. 55—146.)



An attachment for rakes comprising a bar formed with a plurality of openings elongated longitudinally of the bar and adapted to receive rake tines, and a spring support for the bar comprising a single continuous wire bent to form spring arms with coils at one end of said arms, and the intermediate portion of the wire between the coils bent to form a loop to embrace a rake handle with eyes at the ends of the loop to receive a bolt for clamping the loop about the handle.

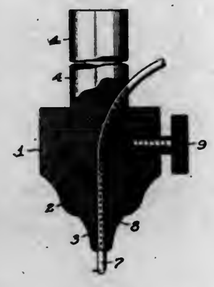
1,450,878. HOTEL KEY CHECK. JAMES C. WEBSTER, Topeka, Kans. Filed May 9, 1921. Serial No. 467,900. 2 Claims. (Cl. 40—2.)



1. A key, a check, plates to retain the key having elongated openings through which the key is inserted, and said plates being disposable on the check immovable relatively to each other with the key passing through said openings and with said openings disalined.

1,450,879. NEEDLE AND NEEDLE HOLDER. EUGENE WERNER, Highland Park, Mich. Filed Mar. 12, 1921. Serial No. 451,727. 1 Claim. (Cl. 279—44.)

A needle holder comprising a sleeve having a tapered seat, a stem fixed in said sleeve, said stem having a portion thereof removed to afford a jaw loosely held by said sleeve, the jaw of said stem having one end thereof engaging said stem and the opposite end thereof engaging the seat of said sleeve so that said jaw cannot shift longitudinally of said stem, said stem and the loosely held jaw thereof having their confronting faces grooved and adapted for holding a piece of wire or needle having its outer end co-axial of said stem, and a screw carried by said sleeve engaging the jaw of said stem and adapted to cause the stem jaw to clamp the wire or needle against said stem.



1,450,880. SPLIT BELT PULLEY. HANS WOTTLE, Vienna, Austria. Filed May 6, 1922. Serial No. 559,102. 2 Claims. (Cl. 64—18.)



1. A sectional belt pulley composed of two sections each of which is cast in a single piece and consists of a semi-circular rim portion, semi-disc like side walls integral with the side edges thereof and provided with central recesses, pairs of opposed ribs extending inwardly from the rim and side walls and projecting slightly beyond the recesses in the side walls to form a shaft engaging bore, bracket portions formed in the rim portions of the sections and arranged opposite to each other and means engaging the bracket portions for clamping the pulley sections together and adapted to maintain the ribs in biting engagement with a shaft, substantially as and for the purposes set forth.

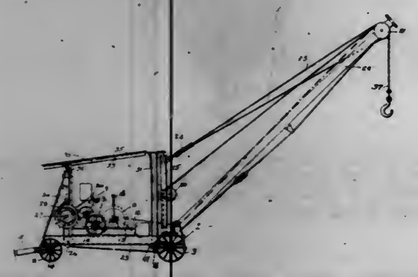
1,450,881. HYDROCARBON-OIL BURNER. GEORGE F. ALLEN, Oronogo, Mo. Filed June 16, 1921. Serial No. 478,070. 2 Claims. (Cl. 158—75.)



1. An oil burner comprising an elongated body having its delivery end contracted and a tapered portion adjacent the contracted end, and having a fuel inlet at its opposite end, a head fitted to the receiving end of the body, a tube within the body and spaced therefrom and

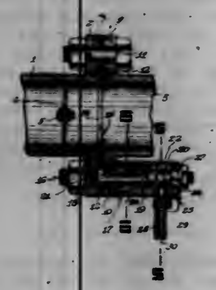
attached at one end to said head, and having a jet outlet at its opposite end terminating within the tapered portion of the body, means for supplying steam to said tube, a valve within the tube, and a regulator threaded to the contracted end of the body and adapted to coact with the jet outlet end of the said tube to regulate the flow of the fuel through the body.

1,450,882. HOISTING MACHINE. HENRY C. BECKWITH, Ravenna, Ohio, assignor to The John F. Byers Machine Company, Ravenna, Ohio, a Corporation of Ohio. Filed Aug. 7, 1918. Serial No. 248,682. 5 Claims. (Cl. 212—40.)



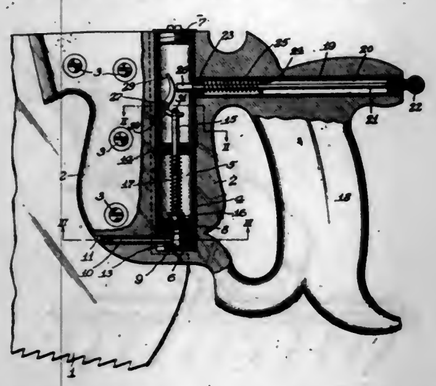
1. In a machine of the character described, the combination of a triangular platform bearing hoisting mechanism and having recesses formed therein at the opposite sides of the broader end, and counterweights adapted to fit and be removably mounted in said recesses at either side of the laterally broader end of the platform.

1,450,883. COMBINED PRIMER AND GAS-SAVING DEVICE. JAMES C. BENNETT, Detroit, Mich. Filed Aug. 9, 1922. Serial No. 580,593. 11 Claims. (Cl. 123—119.)



1. In a priming and auxiliary air supply device for internal combustion engines wherein an intake manifold is connected to a carbureter connection;—means for admitting air to the intake manifold, said means comprising a gasket interposed between the manifold and carbureter connection, a hollow bolt cooperating with the manifold and carbureter connection in holding said gasket in place, said bolt communicating with said manifold through said gasket and adapted to supply air thereto, a valve member on said bolt controlling the admission of air thereto, a tube carried by said valve member and through which air or a priming agent may pass into said bolt, and means connected to said tube to facilitate adjustment of said valve member.

1,450,884. LUBRICATING DEVICE FOR SAWS. JOSEPH ESZTO, Halfway, Mich. Filed Apr. 22, 1920. Serial No. 375,725. 1 Claim. (Cl. 145—35.)



In a saw lubricator, the combination with a saw blade having a handle, of a tubular reservoir in said handle disposed to have its outer end open at the upper edge of the saw handle and its inner end communicate with side walls of said saw blade, a cap normally closing the outer end of said reservoir, a ported base piece at the inner end of said reservoir, a spider intermediate the ends of said reservoir, a spring pressed valve slidable in said spider and normally closing said ported base piece, a bell crank pivoted in said reservoir above said spider and adapted for opening said valve, and a spring retracted plunger in said saw handle extending into said reservoir and adapted for actuating said bell crank, said plunger being operatable by thumb pressure at the end of the saw handle.

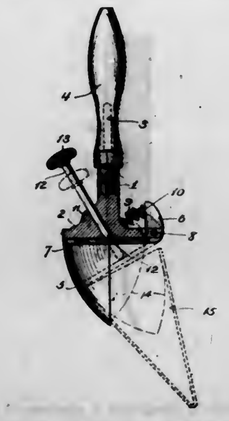
1,450,885. TROLLEY CONSTRUCTION. JAMES F. HEALY, Chicago, Ill. Filed May 25, 1921. Serial No. 472,494. 1 Claim. (Cl. 191—87.)



The combination of a trolley pole having a pivoted section which carries the trolley wheel, a fluid-pressure cylinder, a piston in the cylinder, a connection between the piston and the trolley pole, a valve for admitting fluid-pressure to the cylinder for moving the piston in a direction to elevate the trolley pole, a fluid-pressure exhaust valve, actuating means for the valves whereby the closure of one valve is accompanied by the opening of the other valve, the admission valve being normally open and the exhaust valve being normally closed, a spring engageable with the aforesaid pivoted section of the trolley-pole for normally holding said section in alinement with the pole, and a flexible connection between said pivoted section and the aforesaid actuating means of the valves.

1,450,886. ICE-CREAM DIPPER. WILLIAM GLOCK HEIMERDINGER, Louisville, Ky. Filed Aug. 10, 1921. Serial No. 491,197. 3 Claims. (Cl. 107—48.)

1. An ice cream dipper consisting of a head, a rigid handle extending from one side of the head, a hollow conoidal cutter secured at its basal end upon and extending part way around the edge of the head and projecting from the side of the head opposite the handle, an ejector pivotally mounted on the head to swing toward and from the same over the inner concave face



of the cutter, means for holding the ejector normally against the head, and means for moving the ejector from the head to discharge the contents of the cutter.

1,450,887. SELF-CENTERING ICE CHUTE AND RUN. GUSTAV HOLTZ and CALVIN GRESS, Gouldsboro, Pa. Filed Mar. 12, 1920. Serial No. 365,260. 11 Claims. (Cl. 193—41.)



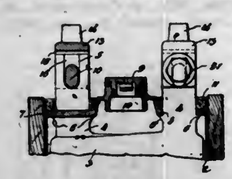
1. In combination, an ice chute tapered from its receiving end to its discharging end, an ice run joined thereto but separated by an interval therefrom, and means on the run for cutting grooves in the ice as it passes over said interval.

1,450,888. COKING OF COAL. STEWART ROY ILLINGWORTH, Radyr, Glamorgan, Wales, assignor to Illingworth Carbonization Company, Limited, Manchester, England. Filed Aug. 12, 1922. Serial No. 581,488. 2 Claims. (Cl. 202—8.)

2. In the art of coking coal, the improvement which comprises heating the coal in a partial vacuum to a temperature between 500° and 600° C., the temperature being so selected for the particular coal as to leave in the coal not substantially less than 5% of substances soluble in boiling pyridine and in chloroform, while destroying the bulk of the substances in the coal which are soluble in caustic alkalies, whereby a coal having good coking properties is produced.

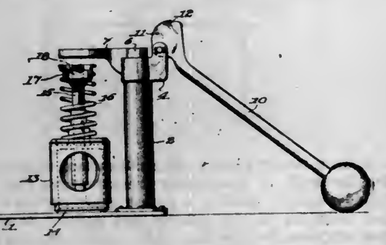
1,450,889. STORAGE BATTERY. NORMAN B. LAING, Detroit, and FRED C. RINDFLISH, Highland Park, Mich. Filed Apr. 10, 1922. Serial No. 550,958. 9 Claims. (Cl. 204—29.)

1. As a new article of manufacture, a connector for battery plate risers, said connector having multiplicity of arms affording slots to receive plate risers and said arms having alining slots to receive means by which said



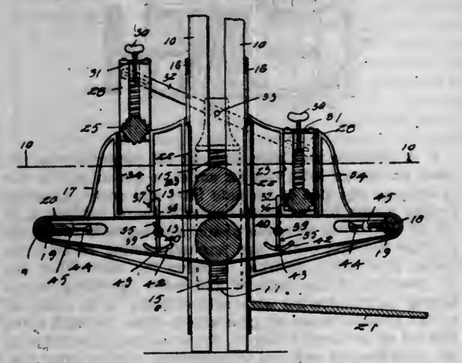
arms and plate risers may be intimately clamped in engagement with the plate risers.

1,450,890. VALVE-SPRING COMPRESSOR. WILLIAM F. LANDGRAF, Washington, D. C. Filed Oct. 29, 1921. Serial No. 511,314. 3 Claims. (Cl. 29—86.3.)



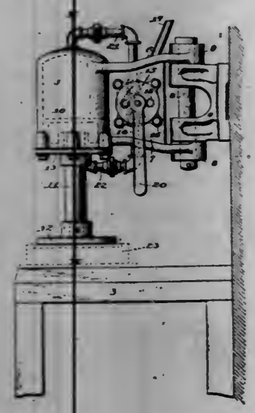
1. A spring compressing device, comprising a hollow vertical post, a spring loosely disposed in said post, a plunger vertically movable in said post and resting on said spring, a cam lever pivoted to said post in position to contact with and depress said plunger, and spring engaging means on said plunger.

1,450,891. FEEDING ATTACHMENT FOR POWER WRINGERS. EDWARD L. LEIMBERGER and ALBERT BRASHER, Chicago, Ill. Filed July 21, 1921. Serial No. 486,486. 6 Claims. (Cl. 68—32.)



1. A wringer comprising supporting posts, frames mounted on said supporting posts, pressure rollers mounted in said supporting posts, arms extended from said frames in pairs, guide rollers mounted in said arms, a feed belt extended around said guide rollers and passing said pressure rollers to cooperate therewith, feed rollers mounted above said feed belt, means connecting said feed rollers to retain one of the said rollers in operative position with relation to said belt and the remaining feed roller in inoperative position, and locking means for said feed rollers.

1,450,892. MOLDER'S PRESS. WILLIAM J. MACNEILL, Wauwatosa, Wis., assignor to Federal Malleable Company, West Allis, Wis., a Corporation of Wisconsin. Filed Feb. 1, 1921. Serial No. 441,655. 3 Claims. (Cl. 22—43.)



1. In a molder's press the combination, with a support for the mold, of a swinging bracket above the mold, a cylinder carried thereby, a presser plate carried by a piston operating in the cylinder and adapted to act upon and compress the sand in a mold resting upon the support, and means for controlling the movements of motor fluid to and from the cylinder to operate the piston the said controlling means being carried by the swinging cylinder bracket.

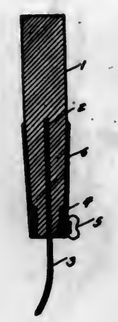
1,450,893. PRESSURE REGULATOR AND CUT-OFF. JOHN B. MORROW, Harrisburg, Pa. Filed June 7, 1921. Serial No. 475,706. 2 Claims. (Cl. 50—11.)



1. A pressure regulator and cut off comprising a cylinder having an inlet and an outlet, a piston within the cylinder at one side of the said inlet and outlet, pressure setting means in cooperative relation with the piston, a cut off connected with the piston and movable therewith to close the said outlet and normally acting to hold the piston in a given position, a valve for controlling the air pressure to the cylinder and valve operating means having communication with said cylinder to be actuated by the predetermined air pressure to close the said valve and cut off the supply thereto, the communication between the cylinder and said valve controlling means being normally closed by the said cut off connected with the piston.

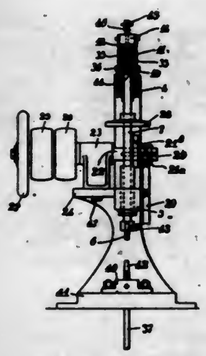
1,450,894. CAN OPENER. JAMES BLY SANDERS, Basic, Va. Filed June 24, 1922. Serial No. 570,591. 1 Claim. (Cl. 30—3.)

An implement of the character specified comprising a handle having a kerf in an end portion thereof, a heavy ferrule fitted to the end of the handle through which the kerf extends, a blade adjustable in the kerf, a sleeve encircling the ferrule and the end of the handle provided with the kerf, and a clamp screw passing through the sleeve and having screw thread engagement with said



ferrule and adapted to compress a portion of the handle at one side of the kerf to contract the latter and clamp the blade therein.

1,450,895. HAMMERING MACHINE. CONRAD SIEPER, Krawinkelerbrucke, Germany. Filed July 31, 1916. Serial No. 112,426. 5 Claims. (Cl. 78—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

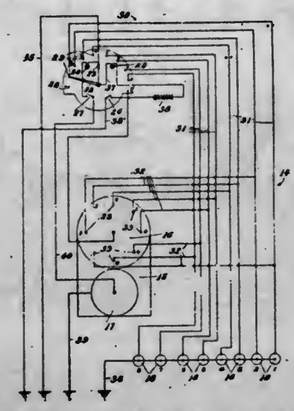


1. In a hammering machine, in combination: a tool-carrier spindle movable up and down, a spring pressing said spindle downwardly, a friction disc fastened to said spindle, and a rotary cam coacting with said friction disc for lifting said spindle at intervals and simultaneously turning said spindle, the rotating axis of said cam lying parallel with a chord of said friction disc, and said cam being adjustable with respect to said friction disc in the direction of said chord.

1,450,896. MEANS FOR LOCATING TROUBLE IN IGNITION SYSTEMS. AUGUSTE PACHE, New York, N. Y. Filed Apr. 26, 1918. Serial No. 230,975. 10 Claims. (Cl. 175—183.)

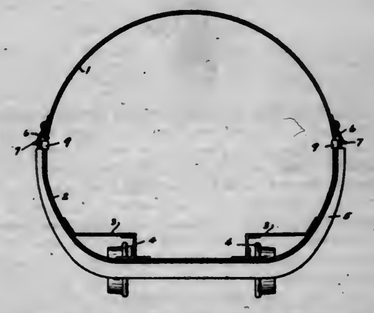
1. An ignition system embodying a source of current supply, a plurality of spark plugs and leads from the magneto to the respective plugs, in combination with

means for locating trouble in said system embodying a single spark gap, unitary means for selectively including



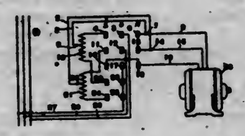
the spark gap in any of the plug circuits, a signal, and means for including said signal in the primary circuit of the magneto.

1,450,897. TIMBER-TREATING APPARATUS. EDWIN F. STEMMLER, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 15, 1921. Serial No. 437,433. 8 Claims. (Cl. 280—179.)



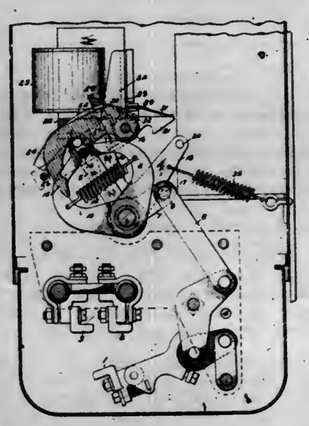
1. In a timber treating car, a bail arm member, a bail member, a link pivotally connected to one of said members, a hook slidably supported in the other of said members and engageable with said link to connect said members, and means associated with one of said members for positively limiting the extent of sliding of said hook to two extreme and an intermediate position.

1,450,898. MOTOR CONTROLLER. HERBERT W. CHENEY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 6, 1919. Serial No. 343,402. 12 Claims. (Cl. 172—179.)



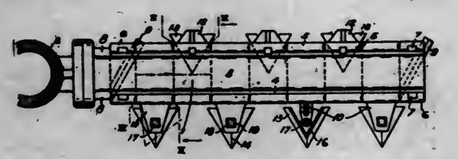
1. A motor controller having starting and running positions, comprising five movable contacts three of which are connectible to a given supply line, each of the other two being connectible to a supply line, a pair of auto-transformers, five relatively stationary contacts in said starting position four of which are connected to the respective terminals of said auto-transformers, three relatively stationary contacts in said running position which cooperate with three of said line-connectible movable contacts, and one of which is connected to the remaining starting contact.

1,450,899. SWITCH. HERBERT W. CHENEY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 27, 1920. Serial No. 413,086. 16 Claims. (Cl. 200—89.)



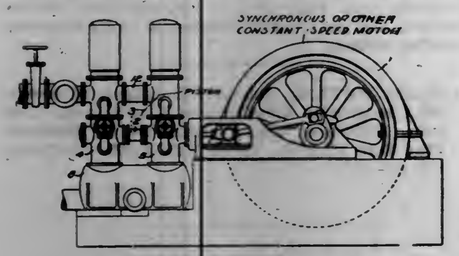
9. In a controller, movable contacts, a pivotally mounted actuating arm for said contacts, a shaft, a latch, loosely mounted on said shaft, for holding said actuating arm in circuit closing position, a trip lever mounted concentrically with said actuating arm, a second latch, loosely mounted on said shaft, for holding said trip lever in energy-stored condition, an armature rigidly mounted on said shaft, a lever rigidly associated with said shaft said lever having a surface substantially concentric with and co-operating with a portion of said actuating arm said lever also having a notch whereby said lever may move with respect to said actuating arm, and means whereby effective movement of said armature releases said second latch.

1,450,900. ROASTING FURNACE. HENRY C. HOLTHOFF, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 7, 1921. Serial No. 459,306. 15 Claims. (Cl. 259—134.)



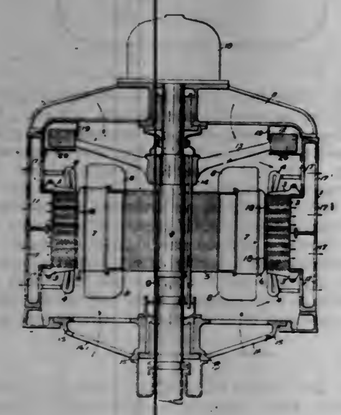
1. In combination, a rabble support, and a rabble associated with and automatically adjustable relatively to said support.

1,450,901. PUMP. GUSTAF L. KOLLBERG, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 29, 1921. Serial No. 496,204. 7 Claims. (Cl. 103—41.)



1. A pump unit including a plurality of cylinders and associated plungers, a motor constrained to operate at a constant speed irrespective of load drivingly connected to said plungers, and means whereby said pump unit may be caused to deliver the capacity of all or any desired number of said cylinders without changing the speed of said motor.

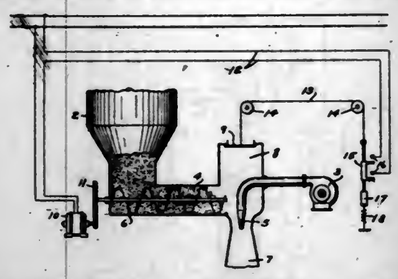
1,450,902. DYNAMO-ELECTRIC MACHINE. SOREN H. MORTENSEN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 3, 1920. Serial No. 427,981. 9 Claims. (Cl. 171—252.)



5. In a dynamo-electric machine, a stator, a rotor, a fly wheel associated with said rotor and disposed within said stator, said fly wheel having a ventilating passage therethrough.

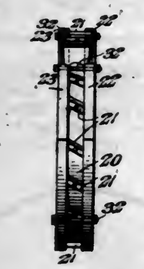
1,450,903. FUEL FEEDER. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 27, 1921. Serial No. 440,402. 4 Claims. (Cl. 302—42.)

1. In combination, means forming a conduit, means for producing a flow of fluid through said conduit, a flow actuated valve for controlling the admission of air direct from atmosphere to said conduit, means for delivering



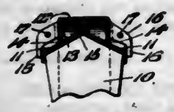
pulverulent material to said conduit, and means for automatically preventing said delivery of material when said valve is closed.

1,450,904. WHEEL ATTACHMENT. ALBERT W. SCHEDE, Drexel Hill, and JOHN A. MITCHELL, Ridley Park, Pa. Filed Nov. 10, 1921. Serial No. 514,144. 2 Claims. (Cl. 301—39.)



1. In combination, a tractor wheel having a plurality of transversely disposed traction producing fins on the tread surface thereof, a plurality of smooth tread segmental rings of angle section arranged respectively to have one portion thereof seating on said fins and the other portion thereof abutting one end of the respective fins, means for clamping the respective ring segments together, and transverse bolts extending from one ring to the other between said projections for rigidly securing said rings to said fins.

1,450,905. WHEEL ATTACHMENT. ALBERT W. SCHEDE, Drexel Hill, and JOHN A. MITCHELL, Ridley Park, Pa. Original application filed Nov. 10, 1921, Serial No. 514,144. Divided and this application filed May 11, 1922. Serial No. 560,096. 2 Claims. (Cl. 301—39.)



2. In combination, a tractor wheel having a circumferential fin radially projecting from the tread surface thereof, a removable ring arranged to seat circumferentially upon said fin, flanges on said ring arranged to seat circumferentially upon said tread surface, said ring thereby having a plurality of circumferential lines of bearing contact upon said wheel, and means including side extensions for clamping said ring to said wheel and preventing lateral displacement thereof.

Patents Nos. 1,450,906 to 1,451,672.

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Total	1062		

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

803,684, J. A. Fleming, Instruments for converting alternating electric currents into continuous currents; 841,387, L. de Forest, Devices for amplifying feeble electrical currents; 879,532, same, Space telegraphy, suit filed Sept. 29, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/359, *Radio Corp. of America* v. *F. Latter and others.* Temporary injunction granted as to Patents 841,387 and 879,532. Same, Perpetual injunction granted as to Patents 841,387 and 879,532; 803,684 expired, no injunction granted, U. S. D. C., S. D. N. Y. *Radio Corp. of America* v. *S. Greenfield and others.*

841,387. (See 803,684.)

841,387, L. de Forest, Devices for amplifying feeble electrical currents; 879,532, same, Space telegraphy, Temporary injunction granted as to Patents 841,387 and 879,532, U. S. D. C., S. D. N. Y., *Radio Corp. of America* v. *The Radio Guild, Inc.* Same, Decree pro confesso, U. S. D. C., S. D. N. Y., *Radio Corp. of America* v. *Federal Engineering Co., Inc.*

879,532. (See 803,684 and 841,387.)

928,413, J. T. Watters, Vehicle hubs, suit filed Dec. 12, 1922, U. S. D. C., W. D. Mich. (S. D.), Doc. 1074, *Central Wheel Co.* v. *Watters & Portman Wheel Co. et al.*

933,203. (See Re. 13,798.)

958,478, W. E. Davey, Process of reinforcing trees, Permanent injunction granted, U. S. D. C., S. D. N. Y., *The Davey Tree Expert Co.* v. *Landscape Foresters, Ltd.*

1,018,502. Just & Hanaman, Incandescent bodies for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamps, suit filed May 4, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/366, *General Electric Co.* v. *P. R. Mallory & Co., Inc.* Injunction granted as to 1,018,502, injunction suspended as to 1,180,159.

1,104,065. (See Re. 13,798.)

1,104,073. (See Re. 13,798.)

1,137,714. (See Re. 13,798.)

1,139,685, F. E. Judd, Controlling mechanism for throttle valves; 1,284,523, Williams, Williams & Williams, Accelerator attachment, suit filed Feb. 19, 1923, U. S. D. C., W. D. N. Y., Doc. E 441-C, *Williams Bros. Aircraft Corp.* v. *W. & J. Corson, Inc., and others.*

1,180,159. (See 1,018,502.)

1,225,852. (See Re. 13,798.)

1,284,523. (See 1,139,685.)

1,369,891, E. P. Halliburton, Method and means for cementing oil wells, suit filed Mar. 16, 1922, U. S. D. C., E. D. Okla., Doc. E 2852, *E. P. Halliburton* v. *E. A. Steen.* Decree for plaintiff.

1,440,220, H. Hopkes, Knife sharpener, suit filed Feb. 17, 1923, U. S. D. C., E. D. Mich. (S. D.), Doc. 530, *M. G. Goff* v. *Haller & Haller (Ke-Nef Co.) and others.*

Re. 13,798, G. W. Pickard, Means for receiving intelligence communicated by electric waves; 933,263, same, Oscillation devices; 1,104,073, same, Detectors for wireless telegraphy and telephony; 1,137,714, Same, Solid rectifier for feeble electric currents; 1,225,852, same, Rectifiers; 1,104,065, B. J. Miessner, Detectors for wireless apparatus, consent decree for plaintiff, permanent injunction granted, U. S. D. C., S. D. N. Y., *Wireless Specialty Apparatus Co.* v. *Magnus Electric Co., Inc.*

T. M. 93,766, Smith & Wesson, Firearms of all kinds, suit filed Jan. 11, 1923, U. S. D. C., N. D. Ill., Doc. 3253, *Smith & Wesson, Inc.* v. *American Novelty Co.*

ADJUDICATED PATENTS.

(U. S. D. C. Pa.) Hurst patent, 1,154,401, for molten-metal conveyer, valid and infringed. *Pittsburgh Coal Washer Co.* v. *Slag Rock Machine Co.*, 285 Fed. Rep., 791.

Condition of Applications Under Examination at Close of Business March 30, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 74,210; Trade-Mark Division, 4,118. Oldest new case, Apr 1, 1922; oldest amended, Mar. 29, 1922. The dates given are 1922 except where * indicates 1923. Divisions, Examiners, and subjects of inventions.	Oldest new application awaiting office action. New.	Oldest amended application awaiting office action. Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	July 10	June 21	1,113
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	May 11	May 25	1,649
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Apr. 17	Apr. 12	1,716
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 15	*Jan. 2	1,420
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 18	June 8	1,307
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	July 31	Nov. 18	1,580
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	June 15	Aug. 25	2,459
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Sept. 20	Dec. 1	1,531
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 2	*Feb. 15	925
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	June 29	July 25	1,426
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Sept. 7	Sept. 23	1,024
322	12. PIERCE, P. P., Machine Elements	Sept. 8	Oct. 11	1,491
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 17	Dec. 16	1,370
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 1	*Feb. 24	1,188
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	May 18	July 15	2,052
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Apr. 4	Apr. 4	2,548
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Apr. 11	Oct. 21	1,510
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	May 13	Apr. 21	2,058
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 14	Nov. 10	830
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Sept. 15	Sept. 18	1,805
212	21. THURBER, W. ., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Apr. 14	Oct. 18	1,036
249	22. COLWELL, J. E., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 18	Sept. 19	638
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	Mar. 29	896
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 26	July 18	1,553
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 8	*Jan 5	406
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	May 24	July 22	856
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 8	May 20	2,197
225	28. BENSON, A. R., Internal-Combustion Engines	June 8	June 5	1,647
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	May 25	Dec. 18	688
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	July 12	Dec. 8	1,733
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 6	May 16	1,664
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	June 1	Aug. 18	1,284
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Apr. 1	Apr. 3	1,695
304	34. SIMPSON, G. B., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Sept. 11	Oct. 10	754
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Nov. 23	*Jan. 16	1,072
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Sept. 12	Aug. 25	1,878
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 5	June 1	1,794
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Apr. 18	May 2	1,922
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 7	Apr. 25	1,576
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	May 29	Sept. 2	2,209
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 7	July 22	950
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 3	May 3	1,838
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	June 13	May 31	1,345
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	May 31	Oct. 23	1,392
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 1	July 13	1,536
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	June 1	May 26	1,450
261	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	June 20	Aug. 22	1,239
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 4	Apr. 5	2,494
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	May 17	June 20	821
102	DESIGNS: C. O. MARKHAM (Acting)	June 22	Oct. 15	2,555
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Oct. 6	Dec. 30	4,090
	{Labels and Prints	*Mar. 24	*Mar 24	28

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE KEYLESS AUTO CLOCK COMPANY.

Decided January 13, 1923.

TRADE-MARK—ACT OF MARCH 19, 1920—TRADE-MARK USE.

A trade-mark use under the one-year clause of the March 19, 1920, act must include the exclusive use of a mark to point out distinctly the origin or ownership of the articles to which it is affixed; a word or words, a symbol or symbols, or combination of some or all of these, so used as to distinguish the goods of a manufacturer or vendor over others of their class. The words "Rim Wind" and "Rim Set" when applied to automobile clocks in no distinctive way *Held* not to constitute trade-mark use.

ON APPEAL.

TRADE-MARK FOR CLOCKS.

Mr. George E. Tew for applicant.

KINNAN, *First Assistant Commissioner:*

The Keyless Auto Clock Company, by its counsel, appealed from the decision of the Examiner of Trade-Marks denying registration, under the one-year provisions of the act of March 19, 1920, of the words "Rim Wind" and "Rim Set" as applied to automobile clocks. The alleged mark is printed on the labels of the boxes in which the clocks are packed and sold and also imprinted on the dials of the clocks made by the appellant company.

The rejection is based upon the ground that trade-mark use of the words has not been shown; that the words are merely those indicative of a common type of clock and are such as any dealer or maker would use in describing his clocks and are, therefore, in no way distinctive of the origin of appellant's clocks. Aside from this the only feature of distinction is the relative spacing of the words, and this, clearly enough, is not sufficient to constitute a trade-mark use.

There is no difference of view, as between appellant and the Examiner, that descriptive marks are not prohibited registration under the one-year clause of the March 19, 1920, act any more than under the ten-year clause of the February 20, 1905, act; but the mark must be a trade-mark, a word or words, a symbol or symbols, or combination of some or all of these, so used as to distinguish the goods of a manufacturer or vendor over others of their class. The United States Supreme Court, in the *Elgin National Watch Company* v. *Illinois Watch Case Company et al.* (94 O. G., 755; 179 U. S., 665) has given a most illuminating definition of a trade-mark. That Court has stated that a trade-mark—

means a distinctive mark of authenticity, through which the products of particular manufacturers or the vendible commodities of particular merchants may be distinguished from those of others.

That Court stated further, the—

office of a trade-mark is to point out distinctly the origin or ownership of the articles to which it is affixed.

It is believed this definition, although rendered prior to the passage of the act of 1920, applies to marks sought to be registered under any of the acts now in force. Tested by this definition, appellant's mark falls short of what can be regarded as a registerable trade-mark. It does not point out distinctively origin or ownership of the clocks. There would appear to be nothing distinctive about these words. They merely convey a fact—that the clock is of a certain type—and this is not a distinctive or distinguishing mark as to origin at all.

Lacking, therefore, the essentials of a trade-mark, something distinctive, something which shows on its face that it is intended as a trade-mark used to indicate origin or ownership, the appellant's contention must fail.

The decisions cited in support of the appeal do not seem persuasive, because they are based, as I read them, upon the assumption of a trade-mark use of a mark which possesses the essentials which, as above pointed out, are absent in the alleged mark.

The decision of the Examiner of Trade-Marks is affirmed.

EX PARTE GRIER.

Decided February 2, 1923.

1. PRACTICE OF THE PATENT OFFICE—FORMAL AMENDMENT OF REJECTED CLAIMS—FINAL REJECTION.

Where the applicant merely changed the form of some of the rejected claims and asked for reconsideration and the Examiner allowed some of the claims and rejected the others on a patent which had previously been cited as a reference, *Held* that he should have finally rejected the rejected claims.

2. SAME—REJECTION OF CLAIMS THAT HAVE BEEN REPEATEDLY ALLOWED.

Claims that have once been allowed should not ordinarily be reconsidered unless new art is found or a manifest mistake has been made, and where they have been repeatedly allowed a reversal of position with no new reasons for rejection should be indulged in only where there can be no reasonable doubt.

3. SAME—ACQUIESCENCE IN REQUIREMENT OF DIVISION—SUBSEQUENT SUGGESTION BY EXAMINER THAT CANCELED CLAIMS ARE ALLOWABLE.

Where an applicant once elects an invention, he must abide by his election. However, where an Examiner repeatedly changes his own position and at last twice rejects all the claims and advises applicant that the claims which were divided out could be allowed if presented alone, and applicant presents such claims, *Held* that an appeal from the Examiner's actions should be forwarded to permit the Examiners in Chief to decide the questions of division at the same time that they act upon the merits of the claims for the invention that was first elected.

ON PETITION.

SPARK PLUG.

Messrs. Dodge and Sons for the applicant.

ROBERTSON, *Commissioner:*

Applicant petitions that the Examiner be directed to forward his appeal to the Board of Examiners in Chief, the Examiner having refused to

transmit the appeal for the reason that the appeal on the requirement for division "is not considered in order."

Upon review of this application it is found that it has been pending almost seven years and has received numerous actions by the Office and applicant. There are now 23 papers in the file, which show remarkable vacillation on the part of the Examiner and a waste of official time which should have been avoided. In the official action dated Sept. 15, 1919, when six claims were allowed out of nine, the case could and should have been finally rejected as to the three claims rejected in order that the appeal which now has been filed could have been made at that time and the prosecution of the case closed.

In reviewing the application a record is found as follows:

The application was filed with six claims for the process and five for the article.

The application was rejected on April 6, 1916, division being required between the process and article claims. Among the patents cited was one to Melanson, hereinafter referred to.

On May 17 applicant canceled the process claims and stated that the subject matter thereof would be "reserved for a divisional application."

On June 7 all the claims were rejected except claim 4, which was considered "allowable."

On May 8, 1917, applicant changed his claims and added two new ones.

On July 21 the Examiner again allowed claim 4 and rejected the other claims, the patent to Melanson again being cited.

On July 18, 1918, applicant rewrote claim 2, amended some of the other claims, and inserted two new claims (8 and 9).

On Aug. 22 the Examiner allowed five out of the nine claims and rejected the other four, principally on the patent to Melanson.

On June 18, 1919, applicant changed the form of some of the rejected claims and asked reconsideration.

[1] On Sept. 15 the Examiner allowed six claims, rejecting the other three on the Melanson patent. If this action had been a proper one, the three claims rejected could and should have been finally rejected in order to close the prosecution.

On Aug. 6, 1920, applicant amended the three rejected claims and asked for reconsideration.

On Oct. 29 "all" the claims were rejected solely on the patent to Melanson, referred to in almost every official letter in the application, notwithstanding a number of these claims had been allowed repeatedly in several official letters. The Examiner thus reopened the prosecution of the case.

On Oct. 22, 1921, applicant asked for reconsideration.

On Jan. 17, 1922, the Examiner again rejected all the claims, principally on the patent to Melanson, of record. In this official action the Examiner used the following language:

> If any invention is presented in these claims, it resides in the process of manufacture; and, properly presented alone, would be allowed.
> It is suggested that original claims 2, 3, 4 and 5, if presented alone, can be allowed.

(These "original" claims 2, 3, 4 and 5 related to the process and must not be confused with the claims that had been allowed.)

On Apr. 25, 1922, the attorney inserted six process claims in the case, evidently considering the language above quoted to justify such action.

On Oct. 8 the Examiner again rejected article claims 1 to 9 and stated that his rejection could be considered final for the purpose of appeal, but held that the process claims 10 to 15 were "not properly in this case," applicant having previously "acquiesced" in the requirement for division, and therefore could not now shift his ground.

On Nov. 25 applicant filed an appeal on *all* the claims.

On Dec. 1 the Examiner refused to forward the appeal, since he still held that the process claims—

> are not properly in this case and an appeal to the Board from such holding is not in order.

On Dec. 9 applicant petitioned to the Commissioner that the appeal be forwarded as filed.

On Dec. 15 the Examiner filed a statement in defense of his position.

On Dec. 19 applicant filed a brief opposing the Examiner's position.

[2] The record in this case shows an inexcusable vacillation on the part of the officials of this Office. Claims which were repeatedly allowed were afterwards rejected upon the same patent which was before the Examiner at each time they were allowed. One-half of the record in this case is made up of actions which constituted a waste of Government time. The charge is frequently made that such actions constitute one of the reasons why some of the Examiners are so far behind in their work. Claims that have once been allowed should not ordinarily be reconsidered unless new art is found or a manifest mistake has been made, and where they have been repeatedly allowed a reversal of position with no new reasons for rejection should be indulged in only where there can be no reasonable doubt.

It is true that applicant acquiesced in the requirement for division. It is also true that this Office rigidly adheres to the rule that where an applicant once makes his election he must abide thereby. It is not the intention to change this rule to the slightest extent. However, where an Examiner changes his own position as often as it has been changed in this case it is not seen that he is in a position to object if the applicant changes his after the Examiner advises him (in rejecting claims that have been repeatedly allowed) that the claims which were divided out could be allowed if presented alone.

[3] The Commissioner does not intend to encourage the shifting of ground after an applicant has once made his election, nor does he approve of the long delays of the applicant in amending, as in the present instance, but, nevertheless, there must be a time for the case to be closed and the prosecution of this case should have been closed over two years ago. The Examiner is therefore directed to forward the appeal to permit the Board of Examiners in Chief to decide the question of division at the same time that they act upon the merits of the article claims.

In forwarding the appeal the Examiner is authorized to cite any pertinent art against the method claims and, if necessary, consult the Examiner in charge of the division to which he believes the method claims belong. In any event the prosecution of the case should be closed and the appeal forwarded without delay.

The petition is granted.

U. S. Circuit Court of Appeals—Second Circuit.

CENTRAL RY. SIGNAL CO. *v.* UNEXCELLED MFG. CO. INC.

Decided March 7, 1922.

[281 Fed. Rep., 141.]

PATENTS—954,330, FOR RAILWAY SIGNAL FUSEE, HELD VOID FOR LACK OF INVENTION.

The Niditch patent, No. 954,330, for a time-burning railway signal fusee, in the burning compound of which perchlorate of potash is substituted for chlorate of potash, previously used, to render it less liable to spontaneous combustion, *Held* void for lack of invention, the two combinations and their characteristics having been previously fully known.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by the Central Railway Signal Company against the Unexcelled Manufacturing Company, Inc. Decree for defendant, and complainant appeals. Affirmed.

Mr. Ralph L. Scott (*Mr. F. P. Fish, Mr. A. S. Pattison*, and *Mr. S. T. Cameron* of counsel) for the appellant.

Messrs. Duell, Warfield & Duell (*Mr. F. P. Warfield, Mr. H. S. Duell*, and *Mr. L. A. Watson* of counsel) for the appellee.

Before ROGERS, MANTON, and MAYER, Circuit Judges.

MANTON, *Cir. J.:*

The patent in suit is for a compound for railway signal fusees on Patent No. 954,330, issued to Isidore Niditch on an application filed December 16, 1909, and granted April 5, 1910. It is a time-burning railway signal fusee. It is made of strong, tough paper, containing a combustible composition and provided with a spike at one end and ignition means at the other. Some are made so as to burn red, others green, and others yellow, and are required to burn a specified length of time. They are used as safety signals, to keep the proper distance between trains and prevent accidents. It is essential that they be absolutely dependable, for failure to function may produce loss of life or property. They are thrown from a moving train, and therefore must have the qualities of toughness and strength, so as not to be broken, and the burning composition in the tube must be of such a character as will not be extinguished by the shock of throwing or by weather conditions, such as rain, snow, sleet, and high wind, or even when thrown into water pools or snow banks. It must be constructed so as to avoid danger to brakemen who handle them, and be capable of being stored with safety in warehouses, cabooses, and other parts of trains.

The two claims in suit read as follows:

> 1. A time-burning signal fusee, comprising a metallic nitrate sulphur, a carbohydrate and a perchlorate, all combined in about the proportions herein specified, producing a time-burning signal fusee compound burning with brilliancy and force of flame for the purpose described, and which is not subject to spontaneous combustion.
> 2. A time-burning signal fusee, comprising a metallic nitrate, sulphur, a carbohydrate and potassium perchlorate, all combined in about the proportions herein specified, producing a time-burning fusee compound with brilliancy and force of flame for the purpose described, and which is not subject to spontaneous combustion.

Questions of the validity of the patent and infringement are presented. The claim in brief is that by substitution of perchlorate of potash for chlorate of potash an advantage is obtained; that is, to decrease the susceptibility of the product to spontaneous combustion. The fact is that the other necessary requirements for fusees were old, and the inventor has not added any other advantage; that is to say, the burning time, the brilliancy and force demanded in the art, is fulfilled in a large degree by known compositions. The structure and composition of this new one is the same, except that the old chlorate is replaced by the perchlorate. Therefore the inquiry is: Was the substitution with the result obtained, invention? This has been answered below in the negative.

The claim of the patent is that the patentee has largely reduced the danger of spontaneous combustion by this substitution for the unstable potassium chlorate. The perchlorate is a chemical substance containing a greater amount of oxygen and holding it on a firmer bond, and it is not inclined to so easily give it up. It has been found that, under ordinary conditions of moisture and temperature encountered in the use of fusees, the acid produced by the moisture acting on the sulphur will not decompose the potassium chlorate, and spontaneous ignition will not take place. The specification, as well as the file wrapper, acknowledges this departure in the making of fusees in this one respect; and the claim is for this single purpose of reducing the liability of spontaneous combustion. Fusees have been made and used for 20 years or more; but the difficulty was that they did not always burn long enough, but sometimes exploded spontaneously, and it was to meet this condition that the patentee labored. Perchlorate has been known as long as chlorate. The difference between them had long been known to chemists, as the several German publications offered in evidence indicate. These publications had, long before Niditch's date of inventive thought, been available, even in this country. The use of perchlorate in fireworks avoided danger of spontaneous ignition. The difference in the cost made, in America, more frequent use of chlorate. Appellant had used the well-known compound for fusees, but not the perchlorate. It was after it had secured the services of a chemist that perchlorate was used.

It is necessary that publications, to be available, must furnish such details as are necessary for the

practical working of an invention. But the German publications did this. The patentee did not make any substantial change in the relation of the compounds. The articles in "Die Fuerwerkerei" by Eschenbacker (1897), and in "Leitfaden der Pyrotechnik" by Bujard (1899), and "Anorganische Chemie," a book on chemistry by Otto (1884), all refer to potassium perchlorate as a less active oxidizing agent than potassium chlorate, and as not harmless in mixtures containing combustible substances like sulphur or sulphide of antimonate, and that it is far less dangerous to handle than potassium chlorate. Otto, in 1884, referred to potassium perchlorate as—

employed in fireworks as a substitute for potassium chlorate, a substance which is more dangerous to handle and is prone to spontaneous inflammation.

These were full and complete disclosures, and anticipated what the patentee did here. Both the problem and the solution were set forth. The fact that these publications referred to the use of fireworks does not detract from the usefulness of this prior publication as an anticipation. The art of fireworks and fusees we hold to be the same. Pyrotechny is defined as:

The management and mechanical application of fire.
2. The fabrication of fireworks for military and ornamental purposes * * * the composition and scientific use of combustible substances employed as signals, as destructive agents, or for purposes of display.
The Century Dictionary and Cyclopedia, vol. 6.

We think the patentee was dealing with pyrotechnic compositions which contained sulphur and carbohydrates as the burning material, coloring matter in the form of strontium, barium, or calcium nitrate, and potassium chlorate as the oxidizing agent. The sulphur and potassium chlorate, under certain climatic conditions, were subject to a reaction which yielded a gas spontaneously ignitable. All this had long been known in chemistry. The patent in suit is void for lack of patentable invention.

Decree affirmed.

Court of Appeals of the District of Columbia.

RICE MANUFACTURING CO. *v.* SMITH & HEMENWAY COMPANY, INC.

No. 1,517. Decided January 2, 1923.

TRADE-MARKS—SIMILAR DESCRIPTIVE PROPERTIES—LARGE PNEUMATICALLY-OPERATED TOOL AND SMALLER HAND TOOL—"RED DEVIL."

The tool portion of applicant's pneumatically-operated rivet cutter being a cold chisel which functions in the same way as though manually operated and fulfills the same purpose as some of the tool and hardware specialties sold by the opposer, such as glass cutters, cold chisels, saw vises, etc., *Held* that the rivet cutter has the same descriptive properties as the tool and hardware specialties named and that there is sufficient similarity in the characteristics of the articles to create confusion in the mind of the public and to deceive purchasers, although it is conceded that there is considerable difference between a large automatic rivet cutter and a smaller hand tool.

Mr. J. F. Robb, Mr. H. C. Robb and *Mr. H. S. Hill* for Rice Mfg. Company.

Mr. F. C. Somes for Smith & Hemenway Co.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in a trade-mark opposition proceeding in which applicant was denied the right to register the words "Red Devil," accompanied by a supposedly representative picture.

Applicant adopted this mark in 1918, and since that time has used it in connection with the sale of pneumatic rivet cutters. Prior to the adoption of this mark by the applicant, the opposer, appellee here, adopted and has since used substantially the same mark in connection with the sale of numerous tool and hardware specialties, such as glass cutters, cold chisels, pliers, saw vises, chain drills, hack saws, nail and rivet sets, wire grips, etc.

It is the contention of the applicant that its pneumatic rivet cutters are not of the same descriptive properties, within the meaning of the Trade-Mark Act, as the smaller tools of the opposer. The Patent Office thought otherwise. The business end of applicant's rivet cutter is a cold chisel and, although the power actuating it is derived from pneumatic pressure, it functions in exactly the same way as though manually operated. In other words, it is a rivet cutter, whether automatically or manually operated. It may be conceded that there is considerable difference between a large automatic rivet cutter and a smaller hand tool, such as opposer manufactures and sells, but that difference is less noticeable in the smaller tool manufactured by applicant and called the "Baby Devil." In either case, however, the purpose of the tools of the two parties is the same, and it must be held that they are goods of—

the same general qualities or characteristics as those of the goods to which—

opposer's trade-mark already has been applied. (*Anglo-American Incand. L. Co.* v. *General E. Co.*, 43 App. D. C., 385; 215 O. G., 3251. *Imperial Cotton Sales Co.* v. *N. K. Fairbanks Co.*, 50 App. D. C., 250; 284 O. G., 961.) Certainly there is sufficient similarity in the characteristics of the products of the parties as to be likely to create confusion in the mind of the public and to deceive purchasers.

The decision therefore is affirmed.

Affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 10, 1923.

[VOL. 309. NO. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 121,766. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) STANLEY GLIDDEN CO., INC., Boston, Mass. Filed Aug. 18, 1919.



No claim being made to the word "Merit" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Pneumatic and Solid Rubber Tires, Tubes, Patches, Outside Tire Sleeves, Inside Tire Sleeves, Rubber Hose, Portable Tire-Vulcanizing Outfits, and Rubber Gaskets.

Claims use since July 21, 1919.

Ser. No. 136,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ANHYDROUS FOOD PRODUCTS CO., Chicago, Ill. Filed Aug. 23, 1920.



No claim is made to the word "Sa vry" apart from the mark as shown.

Particular description of goods.—Dehydrated Soup Mixture, Dehydrated Vegetables, Dehydrated Fruits, Dehydrated Fish, and Dehydrated Meats.

Claims use since Aug. 9, 1920.

Ser. No. 138,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HYGRADE PROVISION CO., INC., Brooklyn, N. Y. Filed Oct. 20, 1920.

"Feast"

Particular description of goods.—Meat Products—viz, Smoked Sausages, Frankfurters, Ring Bologna, Knock Wurst, Thick Bologna, Long Bologna, Tied Bologna, Goose-Liver Sausage, Garlic Ring, Lilliputians; Fresh Sausage: Headcheese, Veal Sausage, Liver Wurst, Long, Liver Wurst, Ring; Salami Sausage: Extra Fresh Salami, Land-

jagers, German Salami, Salami Rings; Pickeled Meats and Tongues: Corned Beef, Brisket, Corned Beef Bottom Round, Pickeled Roulade, Brisket, Pickled Tongues, Long Cut, Pickled Tongue, Short Cut, Pickled Roulade Flank; Smoked Meats and Tongues: Smoked Tongues, Long Cut, Smoked Tongues, Short Cut; Smoked Beef, Brisket, Pastroma Shoulder, Pastroma Breast, Pastroma Roulade, Pastroma Payes, Pastroma Flank, Speck; Rendered Fat: Can Fat in 3, 5, 10, 25, 50; Tub Fat; Boiled Meats and Tongues: Boiled Beef Brisket, Boiled Bottom Round, Boiled Tongues, Long Cut, Boiled Tongues, Short Cut; Pork Products: Frankforters, Ring, Knock, Straight Bologna, Thick Bologna, Minced Ham, Polish Bologna, Polish Ring, Smoked Liver Wurst, Fresh Liver Sausage, Fresh Pork Sausage, Headcheese, Blood Wurst, Ham Bologna, Boiled Ham, Clear Bacon, Clear Bellies, Rib Bacon, Rib Bellies, Tongue Roulade, Chicken Roulade, Meat Loaf, German Salami, Cervelate, and Braunsweiger Liver Wurst.

Claims use since Dec. 21, 1921.

Ser. No. 140,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

GOLDENGATE

Particular description of goods.—Sheets and Pillowcases.
Claims use since Dec. 14, 1916.

Ser. No. 142,219. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUTZ & ZUELLIG, Manila, Philippine Islands. Filed Jan. 13, 1921.



Particular description of goods.—Cotton, Silk, and Woolen Piece Goods.
Claims use since Oct. 1, 1920.

Ser. No. 142,220. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUTZ & ZUELLIG, Manila, Philippine Islands. Filed Jan. 13, 1921.



Particular description of goods.—Cotton, Silk, and Woolen Piece Goods.
Claims use since Oct. 1, 1920.

Ser. No. 146,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRAIRIE REMEDY CO., Batavia, Ill. Filed Apr. 19, 1921.

Prairie

Particular description of goods.—Stock and Poultry Tonics and Conditioners.
Claims use since 1903.

Ser. No. 146,780. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEROLIN FABRIKATIONSGESELLSCHAFT M. B. H., Vienna, Austria. Filed Apr. 26, 1921.

Perolin

Particular description of goods.—Ethereal Oils and Essences for Deodorizing and Purifying the Air.
Claims use since March, 1906.

Ser. No. 151,922. (CLASS 38. PRINTS AND PUBLICATIONS.) NORTH-WESTERN TRUST & SAVINGS BANK, Chicago, Ill. Filed Aug. 18, 1921.

NORTH-WESTERN

Particular description of goods.—Publications—Namely, Printed Circulars, Pamphlets, and Periodical Publications Relating to Banking Service, Investments, and Securities; and Negotiable Papers—Namely, Drafts and Travelers' Checks or Letters of Credit.
Claims use since July 30, 1906.

Ser. No. 152,224. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) KILBY FROG & SWITCH CO., Birmingham, Ala. Filed Aug. 26, 1921.

ATLAS

Particular description of goods.—Railroad Frogs.
Claims use since June 6, 1921.

Ser. No. 153,551. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JEFFERSON CO. INC., Richmond, Va. Filed Sept. 30, 1921.

SNOW QUEEN

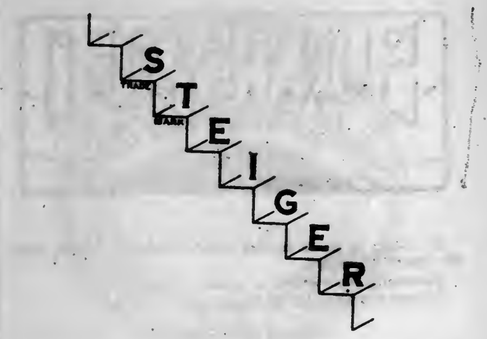
Particular description of goods.—Vegetable Shortening, Lard Substitute.
Claims use since June 1, 1921.

Ser. No. 154,344. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHARLES WARNER COMPANY, Wilmington, Del. Filed Oct. 19, 1921.

"LIMOID"

Particular description of goods.—Hydrated Lime.
Claims use since Sept. 12, 1901.

Ser. No. 154,769. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ERNEST STEIGER, New York, N. Y. Filed Oct. 29, 1921.



The words "Trade Mark" apearing on the drawing are herewith specifically disclaimed apart from the mark as shown.
Particular description of goods.—Kindergarten Material—Namely, Building Blocks, Tablets, Parquetry Papers, Sticks, Slats, Sewing Cards, Interlacing Strips, Weaving Mats, Weaving Needles, Folding Papers, Cutting Papers, Peg Boards, and Wooden Beads.
Claims use since about the 4th day of October, 1921.

Ser. No. 154,986. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MURPHY VARNISH COMPANY, Newark, N. J. Filed Nov. 3, 1921.

Coat-a-Day

Particular description of goods.—Varnishes, Paint Enamels, and Varnish Stains.
Claims use since Sept. 27, 1904.

Ser. No. 155,122. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REESE CHEMICAL CO., Cleveland, Ohio. Filed Nov. 7, 1921.



The words "Safety Tubes" being disclaimed except in connection with the mark as shown.
Particular description of goods.—Prophylactic Remedy.
Claims use since Oct. 1, 1921.

Ser. No. 156,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES H. KEELY, Philadelphia, Pa. Filed Dec. 5, 1921.

SUN RAISED RAISINS

No claim is made to the word "Raisins" apart from the mark as shown.

Particular description of goods.—Raisins.

Claims use since on or about Nov. 1, 1921.

Ser. No. 157,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, New York, N. Y. Filed Dec. 31, 1921.

PRIM

Particular description of goods.—Toilet Preparation for the Removal of Superfluous Hair.

Claims use since on or about May 1, 1921.

Ser. No. 157,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, New York, N. Y. Filed Dec. 31, 1921.

KO-HUL

Particular description of goods.—Toilet Preparation to Darken and Grow Eyelashes.

Claims use since on or about May 1, 1921.

Ser. No. 158,391. (CLASS 15. OILS AND GREASES.) GET-GAS SERVICE STATIONS, INC., Springfield, Ill. Filed Jan. 24, 1922.

WHITE ROCK

Particular description of goods.—Gasoline, Kerosene, Naphtha, Distillate, Motor Oils, Transmission Oils, Machine Oils, Ice Oils, Road Oil, Fuel Oil, and Gas Oil.

Claims use since Mar. 15, 1921.

Ser. No. 158,942. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE NATIONAL FIREWORKS MANUFACTURING COMPANY, Boston and West Hanover, Mass. Filed Feb. 6, 1922.

Electric Dragon



Particular description of goods.—Fireworks.

Claims use since Nov. 22, 1921.

Ser. No. 160,025. (CLASS 37. PAPER AND STATIONERY.) POTTER-WRIGHTINGTON, INC., Charlestown, Boston, Mass. Filed Mar. 1, 1922.

OLD GRIST MILL

Particular description of goods.—Bread Wrappers.

Claims use since 1897.

Ser. No. 160,166. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VOX-SCHALLPLATTEN- UND SPRECHMASCHINEN- AKTIENGESELLSCHAFT, Berlin, Germany. Filed Mar. 3, 1922.

Vox

Particular description of goods.—Talking Machines, Dictating Machines, Records for Talking Machines.

Claims use since Jan. 12, 1920.

Ser. No. 160,255. (CLASS 5. ADHESIVES.) PENN PASTE MILLING COMPANY, Wilkes-Barre, Pa. Filed Mar. 6, 1922.

PENN PASTE FLOUR

Exclusive use of the words "Flour" and "Paste" is disclaimed.

Particular description of goods.—Dry Pastes.

Claims use since Apr. 1, 1916.

Ser. No. 161,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. LITTOOY, Boise, Idaho. Filed Mar. 25, 1922.

MAKE YOUR SPRAY SPREAD AND STAY
3S
SPREADER
THREE S SPREADER
J. F. LITTOOY
DISTRIBUTOR
BOISE IDAHO
CALCIUM CASEINATE

No claim is made to the wording appearing on the drawing except the words "3S" and "J. F. Littooy" apart from the association shown.

Particular description of goods.—Calcium-Caseinate Spreader, Material in Powdered Form to be Added to Lime-Sulphur, Lead Arsenate, Bordeaux Mixture, and Other Sprays Used in the Orchard and on the Farm for the Extermination and Control of Insects for Which Sprays are Used, the Object of Said Spreader Being to Cause the Spray Material to Spread in a Thin Uniform Film and to Adhere to the Surfaces Sprayed.

Claims use since Feb. 1, 1922.

Ser. No. 161,619. (CLASS 7. CORDAGE.) COLUMBIAN ROPE COMPANY, Auburn, N. Y. Filed Apr. 1, 1922.



No claim is made herein for the coloring on the tape. Trade-mark consists of a thin pliant tape capable of being bunched transversely, as by folding or twisting, and applied to the goods by being incorporated within and surrounded by the fiber constituting one of the yarns used for making the rope or twine. The representation of the rope in the drawing is merely for the purpose of showing the method of application of the mark and is not claimed as a part of the mark.

Particular description of goods.—Rope.

Claims use since Feb. 11, 1922.

Ser. No. 162,327. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MARIUS H. TROMBA, doing business as Paramount Lens Corporation, Brooklyn, N. Y. Filed Apr. 14, 1922.

PARAMOUNT LENS
New York Paris
SILVER RAY
GOLD SEAL
MARIUS H. TROMBA

No claim made to the exclusive use of the words "Lens, New York, Paris" apart from the mark as shown in the drawing.

Particular description of goods.—Photographic, Projecting, and Optical Lenses.

Claims use since about June 7, 1921.

Ser. No. 162,546. (CLASS 39. CLOTHING.) GOODALL WORSTED CO., Sanford, Me., and New York, N. Y. Filed Apr. 19, 1922.

Palm Beach

Particular description of goods.—Men's and Boys' Coats, Vests, Pants, and Knickerbockers.

Claims use since June 2, 1914.

Ser. No. 162,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. B. MEWHINNEY CO. INC., also doing business as Mewhinney's, Terre Haute, Ind. Filed Apr. 19, 1922.

FOUR ACES

Particular description of goods.—Chocolate-Coated Fudge Bars.

Claims use since Aug. 10, 1921.

Ser. No. 162,853. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE ROLLAWAY MOTOR COMPANY, Toledo, Ohio. Filed Apr. 24, 1922.

Lokwel

Particular description of goods.—Automobile Steering-Gear-Control Wheels.

Claims use since Jan. 12, 1922.

Ser. No. 163,170. (CLASS 39. CLOTHING.) PLATT'S, Chicago, Ill. Filed May 1, 1922.

PLAT-TEX

Particular description of goods.—Hosiery.
Claims use since June 23, 1921.

Ser. No. 163,502. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHICAGO NIPPLE MANUFACTURING CO., Chicago, Ill. Filed May. 8, 1922.



The representation of the nipple and the words "Chicago" and "Baltimore" appearing above the ribbon and "Trade-Mark," are disclaimed apart from the mark shown by the drawing.
Particular description of goods.—Metal Pipe Nipples.
Claims use since May 1, 1922.

Ser. No. 163,533. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES T. H. CLIFFORD, doing business as Promo Products Co., Oakland, Calif. Filed May 8, 1922.

Promo

Particular description of goods.—Carbon Remover.
Claims use since Apr. 13, 1922.

Ser. No. 163,653. (CLASS 39. CLOTHING.) J. H. SEMEL & Co., New York, N. Y. Filed May 10, 1922.

LITTLE PAPOOSE

Particular description of goods.—Children's Knit Underwear.
Claims use since Apr. 19, 1922.

Ser. No. 164,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WIESEL CANDY CO., Tacoma, Wash. Filed May 17, 1922.

Sweet Greetings

Particular description of goods.—Candy.
Claims use since Sept. 2, 1921.

Ser. No. 164,144. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGENE AVERILL, New York, N. Y. Filed May 20, 1922.

"MAK-A-DOL"

Particular description of goods.—Dolls and Doll Outfits.
Claims use since May 10, 1922.

Ser. No. 164,187. (CLASS 37. PAPER AND STATIONERY.) POTTER-WRIGHTINGTON, INC., Charlestown, Boston, Mass. Filed May 20, 1922.

DIET-EASE

Particular description of goods.—Bread Wrappers.
Claims use since 1915.

Ser. No. 164,600. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MANSFIELD CHEMICAL COMPANY, Chicago, Ill. Filed May 27, 1922.

EVERSHINE

No exclusive claim is made to the use of the word "Evershine" separate and apart from the design shown in the drawing.
Particular description of goods.—Furniture Polish and Automobile Polish.
Claims use since on or about Apr. 10, 1922.

Ser. No. 165,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE L. WILSON, Atlantic City, N. J. Filed June 9, 1922.

WILSON'S CORN SALVE

No claim is made to the words "Corn Salve."
Particular description of goods.—Corn Salve.
Claims use since Apr. 11, 1922.

Ser. No. 165,504. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAYETTE R. PLUMB, INCORPORATED, Philadelphia, Pa. Filed June 14, 1922.

All Work

Particular description of goods.—Files.
Claims use since Jan. 10, 1922.

Ser. No. 166,334. (CLASS 37. PAPER AND STATIONERY.) UNITED STATES PENCIL CO., Philadelphia, Pa. Filed June 30, 1922.



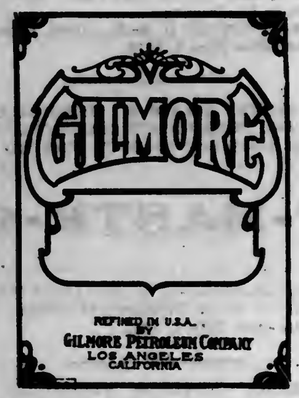
No claim made to the wording "Manufacturers" and "Philadelphia, U. S. A." apart from the mark shown.
Particular description of goods.—Lead and Paper Crayon Pencils.
Claims use since June 26, 1922.

Ser. No. 166,362. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. G. FLECKENSTEIN COMPANY, Muskegon Heights, Mich. Filed July 1, 1922.

OAKROM

Particular description of goods.—Sole-Leather Sides, Backs, Bends, Strips, Blocks, and Leather Cut Therefrom, and Leather from Which Soles and Heels are Cut.
Claims use since 1921.

Ser. No. 166,557. (CLASS 15. OILS AND GREASES.) GILMORE PETROLEUM COMPANY, Los Angeles, Calif. Filed July 7, 1922.



Applicant disclaims the exclusive right to the use of the words "Refined in U. S. A., Los Angeles, California" apart from the mark as shown.
Particular description of goods.—A Volatile Compound Derived from Petroleum.
Claims use since Dec. 1, 1921.

Ser. No. 166,622. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN PICKLE & CANNING CO., Hattiesburg, Miss. Filed July 10, 1922.

Gold Peep

Particular description of goods.—Canned Vegetables and Sweet Mixed Pickles.
Claims use since June 18, 1922.

Ser. No. 166,741. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOSEPH HOLLANDER, INC., Newark, N. J. Filed July 11, 1922.

JOS. HOLLANDER'S J H INC. Seal

No claim is made for the word "Seal" apart from the mark shown in the drawing.

Particular description of goods.—Dyed Animal Skins.
Claims use since June 1, 1919.

Ser. No. 166,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KYRIAKOS KARAS, Brooklyn, N. Y. Filed July 13, 1922.

F-HASTE-O

Particular description of goods.—Liquid Preparation for Internal Use in the Treatment of Asthma.
Claims use since July 1, 1922.

Ser. No. 166,944. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INCORPORATED, Philadelphia, Pa. Filed July 15, 1922.

AUTOCRAT

Particular description of goods.—Men's Hats.
Claims use since Sept. 1, 1921.

Ser. No. 167,337. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOS. SOUTHARD POULTRY SUPPLY CO., Kansas City, Mo. Filed July 24, 1922.

RED COMB

Particular description of goods.—Remedy for Colds, Roup, Canker, Cholera, Diseases of the Liver, Swelled Heads, Diarrhoea, and Chicken Pox in Poultry.
Claims use since May 1, 1907.

Ser. No. 167,443. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLAMETTE VALLEY CANNERIES, INC., Portland, Oreg. Filed July 26, 1922.

BERRY-LAND

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July 7, 1922.

Ser. No. 167,744. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) VICTORY V BELT CO., Catasauqua, Pa. Filed Aug. 2, 1922.

VICTORY

Particular description of goods.—Link Belts.
Claims use since July 21, 1922.

Ser. No. 167,779. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHARLES T. MAGNER, Cleveland, Ohio. Filed Aug. 3, 1922.

MAGNETIC

Particular description of goods.—Dental Suction Plates.
Claims use since June 15, 1922.

Ser. No. 167,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHARM-U CO., Chattanooga, Tenn. Filed Aug. 5, 1922.

CHARM-U

Particular description of goods.—Vanishing Cream and Cleansing or Cold Cream.
Claims use since 1904.

Ser. No. 167,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL F. DEFORD, Pasadena, Calif. Filed Aug. 7, 1922.

HOMODYNE

Particular description of goods.—Capsules for the Relief of Bladder Complaints, Spasmodic Asthma, Bronchial Asthma, Hay-Fever Asthma; Diarrhoea and Dysentery, Painful Menstruation, High Blood Pressure, Heart Pains, Whooping Cough, Hiccough, Intestinal and Stomach Colics, Cramps or Pains, Liver Colic or Pains from Passage of Gallstones; Kidney Colic or Pains Due to Passage of Calculi, Gravel, or Sand; Neuritis, and Seasickness.
Claims use since Mar. 26, 1921.

Ser. No. 167,943. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. WALTER D. JENSEN, doing business as Bio-Chemic Laboratory, Taylor, Nebr. Filed Aug. 7, 1922.

GERMOLYSIN JENSEN

Particular description of goods.—Remedy Used for the Treatment of Distemper in Dogs.
Claims use since Jan. 1, 1920.

Ser. No. 168,102. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HAROLD G. CLOYES, Boston, Mass. Filed Aug. 11, 1922.

ACCESSO

Particular description of goods.—Recoil Checkers.
Claims use since Apr. 14, 1922.

Ser. No. 168,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE H. SCOTT, San Diego, Calif. Filed Aug. 15, 1922.



OVO

Particular description of goods.—Hair Dressing in Paste Form.
Claims use since about Nov. 15, 1916.

Ser. No. 168,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN J. HOEY, Los Angeles, Calif. Filed Aug. 17, 1922.

SUNRIPE

Particular description of goods.—Canned Ripe Olives.
Claims use since July 14, 1922.

Ser. No. 168,626. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JNO G. WILLIAMS, Widener, Ark. Filed Aug. 23, 1922.

WILLIAMS' RED CAPS

Particular description of goods.—Medicinal Preparation in the Nature of a Purgative and Liver Medicine.
Claims use since Jan. 5, 1922.

Ser. No. 168,647. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEA COAST PACKING CO., Seattle, Wash. Filed Aug. 24, 1922.

SEAPAC

Particular description of goods.—Canned Salmon.
Claims use since May 22, 1922.

Ser. No. 168,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHICAGO MALT EXTRACT CO., Chicago, Ill. Filed Aug. 28, 1922.

DAISY

Particular description of goods.—Malt Extract for Food Purposes.
Claims use since July 1, 1921.

Ser. No. 169,136. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEORGE MINCK, New York, N. Y. Filed Sept. 6, 1922.

MINK MAKE



Particular description of goods.—Sheet-Metal Bill Signs, Advertising Boards, and Painted Board Signs.
Claims use since Oct. 1, 1921.

Ser. No. 169,186. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILMOT H. SIMONSON, Medford, Mass. Filed Sept. 7, 1922.

PY-PRODUCTS

Trade-mark "Py-Products."
Particular description of goods.—Filling for Puddings, Pies, and Layer Cake.
Claims use since June 7, 1922.

Ser. No. 169,261. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) A. H. TINNERMAN, doing business as Tinnerman Stove & Range Co., Cleveland, Ohio. Filed Sept. 9, 1922. Under ten-year proviso.

OHIO

Particular description of goods.—Gas Ranges, Gas Heaters, Coal Ranges, Coal Heaters, and Combination Coal and Gas Ranges.
Claims use since 1888.

Ser. No. 169,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. H. GROSS CHEMICAL COMPANY, San Antonio, Tex. Filed Sept. 11, 1922.

NOX-I-DENE

Particular description of goods.—Chemicals, Medicines, and Pharmaceutical Preparations.
Claims use since Jan. 1, 1922.

Ser. No. 169,406. (CLASS 39. CLOTHING.) MELVILLE SHOE CORPORATION, New York N. Y. Filed Sept. 13, 1922.

THOM McAN

Particular description of goods.—Shoes of Combinations of Leather and Rubber and of Rubber and Fabric.
Claims use since Aug. 30, 1922.

Ser. No. 169,517. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JULIUS RICHTER, doing business as Globe Import Co., New York, N. Y. Filed Sept. 15, 1922.

GLICO

The trade-mark in the accompanying drawing consists of the word "Glico."
Particular description of goods.—Cutlery—viz, Scissors and Pocketknives.
Claims use since October, 1921.

Ser. No. 169,730. (CLASS 39. CLOTHING.) BION F. REYNOLDS COMPANY, Brockton, Mass. Filed Sept. 20, 1922.

ROYAL ARCH

Particular description of goods.—Shoes of Leather, Rubber, Fabric, Leather and Rubber, Leather and Fabric, Rubber and Fabric, and Leather, Rubber, and Fabric.
Claims use since Sept. 1, 1922.

Ser. No. 169,902. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HECHTMAN, Osseo, Minn. Filed Sept. 25, 1922.

"Oh Boy"



Particular description of goods.—Potatoes in Their Natural State.
Claims use since Sept. 18, 1922.

Ser. No. 170,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

BORNEOS

Particular description of goods.—Chocolates and Candies.
Claims use since Mar. 20, 1922.

Ser. No. 170,384. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

The Legion Package

No claim is made to the words "The" and "Package" apart from the mark shown in the drawing. The word "Package" is disclaimed apart from the other features shown in the drawing.
Particular description of goods.—Chocolates and Candies.
Claims use since Mar. 22, 1922.

Ser. No. 170,542. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, New York, N. Y. Filed Oct. 10, 1922.

ANOBIUS OLIVE BAY RUM

No claim of exclusive right to the use of the words "Bay Rum" being made apart from the mark as shown in the accompanying drawing.
Particular description of goods.—Massage for the Face and Body.
Claims use since Oct. 1, 1922.

Ser. No. 170,620. (CLASS 39. CLOTHING.) CAMLIN CORSET CO., INC., New York, N. Y. Filed Oct. 12, 1922.

"MAXINE"

Particular description of goods.—Corsets and Brassières.
Claims use since about Sept. 1, 1922.

Ser. No. 170,759. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) EGYPTIAN SEED GROWERS EXCHANGE, Flora, Ill. Filed Oct. 16, 1922.



The trade-mark shown in the accompanying drawing consists of a pictorial representation of a red top.
Particular description of goods.—Grass and Field Seed.
Claims use since July, 1922.

Ser. No. 170,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLWELL PHARMACAL CORPORATION, New York, N. Y. Filed Oct. 18, 1922.

COLWELL'S HORMONES

No claim is made to the exclusive right to the use of the word "Hormones" appearing on the drawing apart

from the mark as shown, the word "Hormones" being used in its ordinary medical significance as designating the natural secretions of the ductless glands of vertebrate animals.

Particular description of goods.—Hormone Products for Medicinal or Dietary Use.

Claims use since Sept. 1, 1922.

Ser. No. 170,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STANDARD ULTRAMARINE CO., Huntington, W. Va. Filed Oct. 18, 1922.



No claim is made to the word "Blue" apart from the mark as shown.

Particular description of goods.—Ultramarine Blue.

Claims use since June 26, 1922.

Ser. No. 171,086. (CLASS 31. FILTERS AND REFRIGERATORS.) KEYNOTE MANUFACTURING CO., INC., Indianapolis, Ind. Filed Oct. 23, 1922.

KEYNOTE

Particular description of goods.—Cooling Chest.

Claims use since Sept. 15, 1922.

Ser. No. 171,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST J. H. WESTPHAL, Brooklyn, N. Y. Filed Oct. 24, 1922.

Cold Dog

Trade-mark consists of the arbitrary words "Cold Dog" shown in the accompanying drawing.

Particular description of goods.—Product Consisting of an Edible Container with Ice Cream or an Analogous Filler within the Container.

Claims use since Sept. 27, 1922.

Ser. No. 171,155. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR CAMERON INC., New York, N. Y. Filed Oct. 25, 1922.



Particular description of goods.—Perfumes.

Claims use since Oct. 1, 1921.

Ser. No. 171,326. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST KEHR, Richmond Hill, New York, N. Y. Filed Oct. 28, 1922.



No claim made to the exclusive use of the words "Cough Lozenges" apart from the mark as shown in the drawing. The portrait is that of Jacob Kehr, father of applicant.

Particular description of goods.—Cough Lozenges.

Claims use since Oct. 16, 1922.

Ser. No. 171,413. (CLASS 33. GLASSWARE.) CORNING GLASS WORKS, Corning, N. Y. Filed Oct. 31, 1922.

PYREX

Particular description of goods.—Glass Teapots.

Claims use since Oct. 1, 1922.

Ser. No. 171,414. (CLASS 39. CLOTHING.) CURTIS & JONES COMPANY, Reading, Pa. Filed Oct. 31, 1922.



Particular description of goods.—Leather Shoes, Fabric Shoes, and Shoes Made of Leather or Fabric.

Claims use since August, 1919.

Ser. No. 171,458. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HEYWOOD-WAKEFIELD COMPANY, Gardner, Mass. Filed Nov. 1, 1922.



Particular description of goods.—Baby Carriages and Gocarts.

Claims use since Oct. 1, 1915.

Ser. No. 171,507. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA A. MORGAN, doing business as R. B. B. Company, North Charlotte, N. C. Filed Nov. 2, 1922.

R.B.B. and Morgan's

Particular description of goods.—Preparation for the Treatment of Pneumonia.

Claims use since December, 1920.

Ser. No. 171,519. (CLASS 39. CLOTHING.) ALLEN-SPIEGEL SHOE MFG. CO., Belgium, Wis. Filed Nov. 3, 1922.

"Osteo-path-ik"

Particular description of goods.—Shoes, Insoles, and Outer Soles Made of Leather, Fabric, Rubber, and Combinations of Same.

Claims use since Apr. 27, 1922.

Ser. No. 171,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMERICAN COTTON OIL COMPANY, Union Township, near Guttenberg, N. J., and New York, N. Y. Filed Nov. 3, 1922.

APECO

Particular description of goods.—Oil for Salads and Cooking.

Claims use since about Oct. 15, 1922.

Ser. No. 171,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILICE & PERRELLI CANNING CO., Gilroy, Calif. Filed Nov. 3, 1922.

CALA RIPE

Particular description of goods.—Canned Fruits and Vegetables.

Claims use since June 1, 1922.

Ser. No. 171,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. HENRY HOLM, doing business as Calcorganic Laboratories, Chicago, Ill. Filed Nov. 3, 1922.

CALCORGANIC

Trade mark "Calcorganic."

Particular description of goods.—Medicinal Compound to be Dispensed in Tablet Form for Promoting Calcification.

Claims use since Oct. 17, 1922.

Ser. No. 171,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PRODUCERS CANNING & PACKING CO., Salem, Oreg. Filed Nov. 3, 1922.

KWALITY IND

Particular description of goods.—Canned Fruits and Canned Berries.
Claims use since May, 1922.

Ser. No. 171,595. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEHON, STEVENSON & COMPANY, Huntington, W. Va. Filed Nov. 4, 1922.

Criterion

Particular description of goods.—Coffee.
Claims use since July 10, 1922.

Ser. No. 171,601. (CLASS 39. CLOTHING.) JOHN WANAMAKER, NEW YORK, New York, N. Y. Filed Nov. 4, 1922.

UNIVERSITY

Particular description of goods.—Men's Leather Gloves.
Claims use since Oct. 21, 1922.

Ser. No. 171,602. (CLASS 39. CLOTHING.) JOHN WANAMAKER, NEW YORK, New York, N. Y. Filed Nov. 4, 1922.

TITAN

Particular description of goods.—Men's Leather Gloves.
Claims use since Oct. 21, 1922.

Ser. No. 171,693. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM GRAHAM, New York, N. Y. Filed Nov. 7, 1922.

WILLIAM GRAHAM
DURABILITY
GIBRALTAR OAK

No claim being made to the exclusive use of the words "Durability" and "Oak" apart from the mark as shown on the drawing.
Particular description of goods.—Leather—viz, Bends, Blocks, Strips, and Offal.
Claims use since May 2, 1922.

Ser. No. 171,704. (CLASS 39. CLOTHING.) MELVILLE SHOE CORPORATION, New York, N. Y. Filed Nov. 7, 1922.



The picture is fanciful.
Particular description of goods.—Shoes of Combination of Leather and Rubber and of Rubber and Fabric.
Claims use since Oct. 14, 1922.

Ser. No. 171,732. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEALTH PRODUCTS CORPORATION, New York, N. Y. Filed Nov. 8, 1922.

Feen-a-mint

Particular description of goods.—Laxative Chewing Gum.
Claims use since Nov. 3, 1922.

Ser. No. 171,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Nov. 11, 1922.

WUNDERLAND

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since on or about June 1, 1916.

Ser. No. 171,887. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMBROSIA CHOCOLATE CO., Milwaukee, Wis. Filed Nov. 13, 1922.

AUTO WHEELS

Particular description of goods.—Candy.
Claims use since 1912.

Ser. No. 171,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN CHEMICAL & DRUG CO., Olyphant, Pa. Filed Nov. 13, 1922.

Tubertone

Particular description of goods.—Proprietary Medicinal Preparation for Use as an Aid to Nature in Lung Affections, Coughs, Colds, General Debility, and Loss of Weight.
Claims use since April, 1918.

Ser. No. 171,905. (CLASS 39. CLOTHING.) C-B MILLINERY CO., Chicago, Ill. Filed Nov. 13, 1922.



Color is not a particular feature of the mark, the lining in parts of the drawing being for shading only. The portrait is not that of a living individual, but is purely fanciful.
Particular description of goods.—Misses' and Ladies' Hats.
Claims use since August, 1921.

Ser. No. 171,933. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. LUBURG, doing business as "J-E" Storage Battery Company, Philadelphia, Pa. Filed Nov. 13, 1922.

"Electro-Jel"

Particular description of goods.—Electrolyte Compound for Storage Batteries.
Claims use since Aug. 4, 1922.

Ser. No. 171,972. (CLASS 39. CLOTHING.) WHITEHOUSE & HARDY, INC., New York, N. Y. Filed Nov. 13, 1922.

THE L-NORR

Particular description of goods.—Dress and Sport Shoes.
Claims use since Oct. 23, 1922.

Ser. No. 172,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RETAILERS' MANUFACTURING CORPORATION, Wilmington, Del.; Chicago, Ill., and Tulsa, Okla. Filed Nov. 14, 1922.

TRADE HY GEE MARK

A disclaimer is hereby made for the use of the words "Trade Mark" in the drawing.
Particular description of goods.—Prophylactics for the Prevention of Sexual Diseases.
Claims use since February, 1920.

Ser. No. 172,022. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WELCH & MARKES, Ionia, Mich. Filed Nov. 14, 1922.

WORM
J J
TABLETS

No claim is made to the words "Worm Tablets" apart from the mark as shown in the drawing.
Particular description of goods.—Vermifuge in the Form of Tablets to be Used in the Treatment of Live Stock.
Claims use since Nov. 9, 1922.

Ser. No. 172,028. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ERNEST L. BROOME, New York, N. Y. Filed Nov. 15, 1922.

CATERPILLAR

Particular description of goods.—Hydraulic Gates.
Claims use since Oct. 1, 1922.

Ser. No. 172,037. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN DUNN, SON & Co., New York, N. Y. Filed Nov. 15, 1922.

DUNSON

Particular description of goods.—Shovels and Spades.
Claims use since July, 1918.

Ser. No. 172,051. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT E. O'REAR, doing business as John D. Bear Company, Clearbrook, Va. Filed Nov. 15, 1922.



Particular description of goods.—Emulsion of Petroleum Combined with Hypophosphites.
Claims use since 1909.

Ser. No. 172,059. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. ROSENBERGER, doing business as William A. Rosenberger Chemical Products Company, New York, N. Y. Filed Nov. 15, 1922.

PUREKAST

Particular description of goods.—Compound for the Desulphurization and Deoxidation of Molten Metals Preparatory to the Pouring of the Same into Molds for Casting.
Claims use since Sept. 25, 1922.

Ser. No. 172,068. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIADEN PACKING COMPANY, San Francisco, Calif. Filed Nov. 15, 1922.

WESTLIGHT

Particular description of goods.—Canned Fruits.
Claims use since June 15, 1919.

Ser. No. 172,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAKOTA COMPOUND COMPANY, Pierre, S. Dak. Filed Nov. 16, 1922.

Washaid

Particular description of goods.—Powder Used as Water Softener.
Claims use since July 14, 1922.

Ser. No. 172,085. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEEP SEA FISHERIES, INC., Rockland, Me. Filed Nov. 16, 1922.

OUR OWN

Particular description of goods.—Boneless Salt Codfish.
Claims use since July 1, 1922.

Ser. No. 172,093. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOOD RIVER CANNING CO., Hood River, Oreg. Filed Nov. 16, 1922.

SHEPHERD'S DELL

Particular description of goods.—Canned Cherries.
Claims use since Aug. 12, 1922.

Ser. No. 172,094. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUTCHINSON MANUFACTURING CO., INC., Norristown, Pa. Filed Nov. 16, 1922.

The SPEED MARVEL

Particular description of goods.—Combination Woodworking Machines for Sawing, Boring, Planing, Jointing, and Other Operations.
Claims use since Feb. 10, 1922.

Ser. No. 172,095. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) ILLINOIS POWDER MFG. CO., St. Louis, Mo. Filed Nov. 16, 1922.

BLACK DIAMOND

Particular description of goods.—Dynamite.
Claims use since May 23, 1912.

Ser. No. 172,113. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KING CANDY CO., Forth Worth, Tex. Filed Nov. 16, 1922.

Knighthood

Particular description of goods.—Candies.
Claims use since 1921.

Ser. No. 172,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Nov. 16, 1922.

Thomsen's

The word "Thomsen's" is in the handwriting of one Mr. Morits Thomsen, president of the applicant company.
Particular description of goods.—Candies.
Claims use since Oct. 30, 1918.

Ser. No. 172,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS F. B. SOTHAM, St. Clair, Mich. Filed Nov. 16, 1922.

MELT IN MOUTH

Particular description of goods—Mincemeat.
Claims use since December, 1920.

Ser. No. 172,133. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE UNITED OIL & NATURAL GAS PRODUCTS CORPORATION, Monroe, La. Filed Nov. 16, 1922.

DIXIE BRAND

No claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Hydrocarbon Black, Used as a Base in the Manufacture of Paints, Varnish, and Similar Coloring Matter.
Claims use since December, 1918.

Ser. No. 172,174. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RELIABLE IMPORTING COMPANY, INC., New York, N. Y. Filed Nov. 17, 1922.



Particular description of goods.—Salad Vegetable Oil.
Claims use since Oct. 10, 1922.

Ser. No. 172,187. (CLASS 39. CLOTHING.) SHEPARD NORWELL COMPANY, Boston Mass. Filed Nov. 17, 1922.

"Answer"

Particular description of goods—Men's, Women's, and Children's Boots, Shoes, and Slippers, Made Wholly or in Part of Leather, Canvas, Rubber, or Textile Material.
Claims use since July 1, 1922.

Ser. No. 172,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATMORE AND SON, INC., Philadelphia, Pa. Filed Nov. 18, 1922.



Particular description of goods.—Mayonnaise.
Claims use since Aug. 16, 1922.

Ser. No. 172,199. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BRECHT CANDY COMPANY, Denver, Colo. Filed Nov. 18, 1922.

Get Acquainted

Particular description of goods.—Candy.
Claims use since about Nov. 3, 1922.

Ser. No. 172,232. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAILLIARD & SCHMIEDELL, San Francisco, Calif. Filed Nov. 18, 1922.

MAIDEL

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish.
Claims use since June 19, 1922.

Ser. No. 172,237. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GOLDENA JACOBS NEAL, Pine Bluff, Ark. Filed Nov. 18, 1922.

Polo



The portrait is that of applicant.
Particular description of goods.—Hair Grower.
Claims use since Mar. 20, 1918.

Ser. No. 172,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POLAK'S FRUTAL WORKS, Amersfoort, Netherlands. Filed Nov. 18, 1922.

"FRUTAL"

Particular description of goods.—Natural and Synthetic Essential Oils and Materials Suitable for the Production of Perfumes.
Claims use since July 10, 1914.

Ser. No. 172,282. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MODERN PHARMACAL CO., INC., New York, N. Y. Filed Nov. 20, 1922.

BUCHONA

Trade-mark consists of the word "Buchona."
Particular description of goods.—Woman's Tonic in the Treatment of the Weaknesses and Disorders of the Female Generative Organs.
Claims use since Jan. 1, 1921.

Ser. No. 172,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MODERN PHARMACAL CO., INC., New York, N. Y. Filed Nov. 20, 1922.

VIGO-FERROIDS

The trade-mark consists of the compound word "Vigo-Ferroids."
Particular description of goods.—Blood Maker and General Tonic.
Claims use since Feb. 1, 1917.

Ser. No. 172,305. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WHITE HOUSE PRODUCTS CO., Chicago, Ill. Filed Nov. 20, 1922.

SWISH

Particular description of goods.—Compound for Opening Clogged Pipes, Traps, Drains, and the Like.
Claims use since May 15, 1921.

Ser. No. 172,351. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed Nov. 21, 1922.



The words "Wash Fabrics" are hereby disclaimed.
Particular description of goods.—Cotton, Silk and Cotton, Linen, Linen and Cotton, and Wool and Cotton Piece Goods, Either Woven or Printed.
Claims use since June 1, 1922.

Ser. No. 172,362. (CLASS 17. TOBACCO PRODUCTS.) SWINT, DAVIS & DAVIS, Atlanta, Ga. Filed Nov. 21, 1922.

Kanuga

Particular description of goods.—Cigars.
Claims use since Oct. 13, 1922.

Ser. No. 172,395. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RAMAPO AJAX CORPORATION, New York, N. Y. Filed Nov. 22, 1922.

RACOR

Particular description of goods.—Track Frogs, Crossings, Guard Rails, Guard-Rail Clamps, Rail Braces, Tie Plates, and Anti-Rail-Creepers and Miscellaneous Castings and Forgings.
Claims use since about the 28th day of September, 1922.

Ser. No. 172,422. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOHANNES TH. PEDERSEN, New York, N. Y. Filed Nov. 22, 1922.



No claim is herein made for the exclusive right to the use of the words "Coffee Economizer" apart from the other features of the mark as illustrated.
Particular description of goods.—Coffee-Bag Supports as Used in Coffee Urns.
Claims use since Oct. 1, 1922.

Ser. No. 172,443. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. B. SACKETT SCREEN & CHUTE COMPANY, Chicago, Ill. Filed Nov. 23, 1922.

"HI CARBO"

Particular description of goods.—Scoops, Shovels, and Steel Chutes.
Claims use since July 1, 1921.

Ser. No. 172,555. (CLASS 37. PAPER AND STATIONERY.) PENINSULAR PAPER COMPANY, Ypsilanti, Mich. Filed Nov. 25, 1922.

Covenant

Particular description of goods.—Book Paper.
Claims use since Nov. 17, 1909.

Ser. No. 172,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALADDIN MYSTIC BEAUTY COMPANY, Grand Rapids, Mich. Filed Nov. 27, 1922.



No claim is made to the words "Superior Complexion Clay" apart from the mark as shown.
Particular description of goods.—Clay for Facial Treatment.
Claims use since July 13, 1922.

Ser. No. 172,596. (CLASS 15. OILS AND GREASES.) INDIAN REFINING COMPANY INC., New York, N. Y. Filed Nov. 27, 1922.

HAVOLINE

Particular description of goods.—Lubricating Oils, Greases, and Compounds and Other Distillates of Petroleum.
Claims use since Jan. 1, 1908.

Ser. No. 172,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KINO H. WALL, Goldsboro, N. C. Filed Nov. 29, 1922.



No claim is made to the word "Best" appearing on the drawing apart from the mark as shown.
Particular description of goods.—Bluing Compound and Liquid Bluing.
Claims use since June 15, 1922.

Ser. No. 172,793. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Dec. 1, 1922.

Meadow-Gold

Particular description of goods.—Cheese.
Claims use since Sept. 28, 1922.

Ser. No. 172,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUISVILLE MILLING COMPANY, Minneapolis, Minn. Filed Dec. 4, 1922.



Particular description of goods.—Wheat Flour.
Claims use since Oct. 6, 1922.

Ser. No. 172,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TACOMA BISCUIT & CANDY COMPANY, Tacoma, Wash. Filed Dec. 4, 1922.

SKOOKUM

Particular description of goods.—Soda Crackers.
Claims use since Oct. 17, 1922.

Ser. No. 172,952. (CLASS 5. ADHESIVES. DANIEL T. MCGRORY, doing business as Ceres Core Binder Company, Chicago, Ill. Filed Dec. 5, 1922.

CERES

Particular description of goods.—Pressed Cereal Binder and a Paste for Forming Core Compounds Used in the Casting of Metals.
Claims use since Oct. 30, 1922.

Ser. No. 172,955. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PARKER BROTHERS, Portland, Me., and Salem, Mass. Filed Dec. 5, 1922.

OZ

Particular description of goods.—Board Game Played with Movable Pieces.
Claims use since Nov. 1, 1921.

Ser. No. 173,008. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSEBRAND CO., Atlantic City, N. J. Filed Dec. 6, 1922.



No claim is made to the word "Brand" apart from the association in the drawing.
No claim is made herein to the words "Stop Sneeze" except in the association shown, no common-law rights, however, being waived.
Particular description of goods.—Nasal Solution, a Douche Therefor, and a Package Containing Both.
Claims use since Sept. 20, 1922.

Ser. No. 173,050. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. KRANK MFG. CO., St. Paul, Minn. Filed Dec. 7, 1922.

CAMOLEASE

Particular description of goods.—Salve to be Applied Externally for Burns, Wounds, Strains, Sprains, and Aches.
Claims use since Oct. 21, 1910.

Ser. No. 173,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. W. CARNRICK CO., New York, N. Y. Filed Dec. 9, 1922.

G. W. C. Formula

No claim being made to the exclusive use of the word "Formula" apart from the mark as shown on the drawing.
Particular description of goods.—Medicinal Preparations for the Treatment of Glandular Deficiency.
Claims use since Sept. 1, 1922.

Ser. No. 173,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WOLTER V. PATRYCHUK, doing business as W. V. Patty, Altoona, Pa. Filed Dec. 11, 1922.

Horlolik

Particular description of goods.—Medicine for the Treatment of Sore Throat, Colds, Influenza, and Throats Overtaxed from Speaking.
Claims use since Nov. 16, 1922.

Ser. No. 173,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ & CO., INC., New York, N. Y. Filed Dec. 12, 1922. Under ten-year proviso.

CHROMOGENE

Particular description of goods.—Dyes and Dyestuffs.
Claims use since about April, 1894.

Ser. No. 173,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEMET SOLVAY COMPANY, Solvay, N. Y. Filed Dec. 12, 1922.



Particular description of goods.—Organic and Inorganic Chemicals—Namely, Para-Dichlorobenzene, Benzyl Chloride, Muriatic Acid, Calcium Chloride, Benzaldehyde, Ammonium Bicarbonate, Methyl Salicylate, Salicylic Acid, Ammonium Chloride, Sodium Nitrite, and Sodium Salicylate.
Claims use since February, 1921.

Ser. No. 173,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONCENTRATED PRODUCTS CORPORATION, Carlstadt, N. J. and New York, N. Y. Filed Dec. 14, 1922.



No claim is made for the words "The Scientific Shampoo" apart from the other features of the mark.
Particular description of goods.—Shampoo.
Claims use since Sept. 15, 1922.

Ser. No. 173,466. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"PLOW BOY"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,467. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"FLAMBEAU"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,468. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"LONG BOY"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,470. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"FOREST KING"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,472. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"MOGUL"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,473. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"CHOPPER'S CHOICE"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,475. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"HI-TENSION"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,476. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"OLD HICKORY"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,478. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"DREADNAUGHT"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,570. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE JOHN P. KING MANUFACTURING CO., Augusta, Ga. Filed Dec. 19, 1922.

R R

Particular description of goods.—Cotton Piece Goods.
Claims use since the year 1883.

Ser. No. 173,593. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY E. DEL SORDO, Newark, N. J. Filed Dec. 20, 1922.

HCAPPILOSR

Particular description of goods.—Dandruff Remover.
Claims use since Dec. 11, 1922.

Ser. No. 173,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAPPY THOUGHT REMEDY CO., Kansas City, Mo. Filed Dec. 20, 1922.

CAPSI REM

Particular description of goods.—Internal Treatment of Piles.
Claims use since June 1, 1921.

Ser. No. 173,652. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LADY JANIS PERFUME CO., Chicago, Ill. Filed Dec. 21, 1922.

Lady Janis

Particular description of goods.—Cold Cream, Complexion Powder, Perfume, and Toilet Water.
Claims use since Mar. 1, 1922.

Ser. No. 173,662. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922.

DAVID HARUM

The trade-mark shown in the drawing is lined for black and consisting of the words "David Harum," which words are the title of a book by Edward Noyes Westcott.
Particular description of goods.—Fishing Lines.
Claims use since the 1st day of February, 1910.

Ser. No. 173,665. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922.

Huckleberry Finn

The trade-mark shown in the drawing is lined for red and consists of the words "Huckleberry Finn."
Particular description of goods.—Fishing Lines.
Claims use since 1st day of January, 1918.

Ser. No. 173,677. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Dec. 21, 1922.

SALTONA

Trade-mark consists of the word "Saltona."
Particular description of goods.—Fabrics in the Piece Made Wholly or in Part of Wool, Worsted, Mohair, Alpaca, Jute, Cotton, Silk, and Artificial Silk.
Claims use since Sept. 16, 1922.

Ser. No. 173,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. J. STRASENBURGH COMPANY, Rochester, N. Y. Filed Dec. 21, 1922.

VITAMEXOL

Particular description of goods.—Tonic for Use in Connection with Convalescence, Anæmia, Malnutrition of Children, Senile Debility, and Neurasthenia.
Claims use since Mar. 20, 1919.

Ser. No. 173,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BILHUBER, INC., New York, N. Y. Filed Dec. 22, 1922.

AFENIL

Particular description of goods.—Medicinal Preparation Recommended for the Treatment of Asthma and Diseases of the Respiratory Tract.
Claims use since April, 1922.

Ser. No. 173,711. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE E. KOBOLT, Chicago, Ill. Filed Dec. 22, 1922.



Particular description of goods.—Manicure Preparations—i. e., Cuticle Remover, Nail White, Nail Polish, Nail Bleach, Cuticle Comfort, Hand Lotion.
Claims use since Dec. 13, 1922.

Ser. No. 173,801. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WOOD HYDRAULIC HOIST & BODY COMPANY, Detroit, Mich. Filed Dec. 23, 1922.



No claim is made to the use of the word "Detroit" apart from the mark shown by the drawing.
Particular description of goods.—Hydraulic Hoists and Their Parts.
Claims use since Nov. 1, 1921.

Ser. No. 173,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. COVINGTON, Chicago, Ill. Filed Dec. 26, 1922.

32 IN ONE

Particular description of goods.—Tooth Paste.
Claims use since Sept. 30, 1922.

Ser. No. 173,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. MCCARTHY, doing business as The Ma-Lit-Ta Co., Norwood, Mass. Filed Dec. 26, 1922.

Ma-lit-ta

Particular description of goods.—Ointment for the Treatment of Piles, Fistula, Constipation, and All Known Rectal Disorders.
Claims use since about Apr. 1, 1922.

Ser. No. 173,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. NEWMAN, doing business as J. J. Newman Co., Los Angeles, Calif. Filed Dec. 26, 1922.

PoP KORN

Particular description of goods.—Corn Plasters.
Claims use since Nov. 1, 1917.

Ser. No. 173,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France. Filed Dec. 27, 1922.

BELAMOUR

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since May 1, 1906.

Ser. No. 173,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France. Filed Dec. 28, 1922.

Christmas-Eve

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Nov. 1, 1922.

Ser. No. 173,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Venetan

Particular description of goods.—Parasiticides.
Claims use since about Jan. 1, 1919.

Ser. No. 173,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Certan

Particular description of goods.—Parasiticides.
Claims use since about Jan. 1, 918.

Ser. No. 173,922. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Canadrast

Particular description of goods—Hæmostatics.
Claims use since about Oct. 15, 1922.

Ser. No. 173,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Aspiphenin

Particular description of goods.—Antineuralgics.
Claims use since about Dec. 31, 1921.

Ser. No. 173,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Eulan

Particular description of goods.—Compositions for Exterminating Moths.
Claims use since about Jan. 19, 1920.

Ser. No. 173,926. (CLASS. 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1922.

Vulkacit

Particular description of goods.—Vulcanization Accelerators.
Claims use since about July 4, 1914.

Ser. No. 173,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYGIENIC LABORATORIES, Chicago, Ill. Filed Dec. 28, 1922.

KUBAK

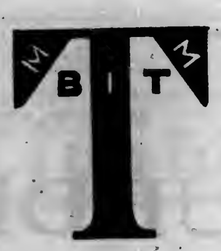
Particular description of goods.—Shampoo.
Claims use since Nov. 1, 1918.

Ser. No. 173,932. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYGIENIC LABORATORIES, Chicago, Ill. Filed Dec. 28, 1922.

GROBAR

Particular description of goods.—Hair Tonics.
Claims use since Aug. 1, 1922.

Ser. No. 173,952. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. L. A. BLACKBURN, Fort Worth, Tex. Filed Dec. 29, 1922.



Particular description of goods.—Preparation for Influenza.
Claims use since Sept. 9, 1922.

Ser. No. 173,980. (CLASS 17. TOBACCO PRODUCTS.) CHARLES B. PERKINS CO., Boston, Mass. Filed Dec. 29, 1922.



No claim being made for the word "Mixture" apart from the mark as shown. The drawing is lined for the color red.

Particular description of goods.—Smoking Tobacco.
Claims use since Dec. 11, 1922.

Ser. No. 173,989. (CLASS 39. CLOTHING.) PHILIP WOLF, doing business as The Wolf Waist Shop, Wallingford, Conn. Filed Dec. 29, 1922.



Applicant disclaims the use of the word "Brassiere" apart from the mark shown.

Particular description of goods.—Brassières.
Claims use since Sept. 1, 1922.

Ser. No. 173,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DRUG PRODUCTS CO., INC., Long Island City, N. Y. Filed Dec. 30, 1922.

Salvarols

Particular description of goods.—Suppositories.
Claims use since Oct. 10, 1921.

Ser. No. 174,011. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HURTY-PECK & Co., Indianapolis, Ind. Filed Dec. 30, 1922.

BUDDIE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirups for Making the Same.
Claims use since Dec. 6, 1922.

Ser. No. 174,023. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NESTOR DRUG AND CHEMICAL COMPANY, Chicago, Ill. Filed Dec. 30, 1922.

CASCALOES

Particular description of goods.—Dry Anticonstipation Medicine Put Up in Either Pill or Capsule Form.
Claims use since Nov. 22, 1922.

Ser. No. 174,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENEDICT A. ROTOLO, Brooklyn, N. Y. Filed Dec. 30, 1922.

ROTOLO'S
ROSEBUD BEAUTY

Particular description of goods.—Hair Tonic.
Claims use since Nov. 6, 1922.

Ser. No. 174,053. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ADDIS O. CANNON, doing business as Cannon Toy Factory, Kent, Ohio. Filed Jan. 1, 1923.



The lines appearing on the drawing are for shading purposes only.

Particular description of goods.—Toy Wagons.
Claims use since Aug. 1, 1922.

Ser. No. 174,056. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AKIN & AKIN, Fort Worth, Tex. Filed Jan. 2, 1923.



Particular description of goods.—Playing Cards.
Claims use since Dec. 23, 1922.

Ser. No. 174,090. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKAY COMPANY, New York, N. Y. Filed Jan. 2, 1923.



Particular description of goods.—Compound for Coloring Electric Bulbs.
Claims use since Aug. 1, 1922.

Ser. No. 174,147. (CLASS 37. PAPER AND STATIONERY.) MCLAURIN-JONES CO., Brookfield, Mass. Filed Jan. 3, 1923.

D. R. I.

Trade-mark consists of the letters "D. R. I."
Particular description of goods.—Wrapping Paper.
Claims use since about Dec. 4, 1922.

Ser. No. 174,166. (CLASS 45. BEVERAGES, NONALCOHOLIC.) COMBIER & CIE., Saumur, France. Filed Jan. 4, 1923.

L'ANGEVINE

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Aug. 1, 1922.

Ser. No. 174,228. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BAKER-PERKINS MANUFACTURING CORPORATION, Saginaw, Mich. Filed Jan. 6, 1923.



Particular description of goods.—Dough Dividers, Bun Dividers, Bread Proofers, Panning Machines, Mixers, Flaking Rolls, and Food Cutters Used in the Preparation and Baking of Bread and Similar Products.
Claims use since at least the month of September, 1922.

Ser. No. 174,231. (CLASS 2. RECEPTACLES.) DAVID BUEL, Columbus, Ohio. Filed Jan. 6, 1923.

PROTEX

Particular description of goods.—Moth and Dust Proof Cloth Bags.
Claims use since Oct. 1, 1922.

Ser. No. 174,251. (CLASS 37. PAPER AND STATIONERY.) CHARLES W. LASHER, Jr., doing business as The Art Label Company, Chicago, Ill. Filed Jan. 6, 1923.

Art Easel

Without waiving his common-law rights thereto the applicant disclaims the word "Easel" apart from the Association shown in the drawing.

Particular description of goods.—Display Stands or Easels.
Claims use since Aug. 17, 1922.

Ser. No. 174,330. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PARKER BROTHERS, Portland, Me., and Salem, Mass. Filed Jan. 8, 1923.

BEAVER

Particular description of goods.—Parlor Game Played With Cards.
Claims use since Nov. 1, 1922.

Ser. No. 174,839. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SAND SPRINGS BOTTLING CO., Tulsa, Okla. Filed Jan. 8, 1923.

Elwino

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirup for Making the Same.
Claims use since Sept. 1, 1922.

Ser. No. 174,356. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CENTRAL DENTAL LABORATORY CO. INCORPORATED, New York, N. Y. Filed Jan. 9, 1923.

PorcoMeer

Particular description of goods.—Dental Crowns Composed of Artificial Enamel and Metal.
Claims use since Dec. 18, 1922.

Ser. No. 174,358. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TWIST DRILL COMPANY, Cleveland Ohio. Filed Jan. 9, 1923.

CLE-FORGE

Particular description of goods.—Metal-Working Small Tools—Namely, Boring Drills and Bits of All Kinds, Reamers, Sockets, Drill Holders, Drill Chucks, Arbors, Mandrels, Taps, Mills, Milling Cutters, Countersinks, and Counterbores.
Claims use since Aug. 1, 1922.

Ser. No. 174,386. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORA EWALD, Brooklyn, N. Y. Filed Jan. 10, 1923.

TICK-TOCK-TOYS

The word "Toys" shown in the mark is not claimed independent of the drawing of which it forms a part.
Particular description of goods.—Toy Dolls.
Claims use since Dec. 16, 1922.

Ser. No. 174,392. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HARRY C. HOCHSTADTER, Philadelphia, Pa. Filed Jan. 10, 1923.

DENTYL PHLOS PENSYL

The word "Phlos" is disclaimed apart from the remainder of the mark shown.
Particular description of goods.—Dental Floss.
Claims use since about Feb. 16, 1922.

Ser. No. 174,429. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RICHARD DOUGLAS, doing business as The R. E. D. Mfg. Co., Brooklyn, N. Y. Filed Jan. 11, 1923.

DOUGLASOYL

Particular description of goods.—Polishing Oils for Painted, Varnished, and Lacquered Surfaces, Having Incidental Properties as Cleaners.
Claims use since August, 1922.

Ser. No. 174,434. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GUS JORDAHN, Palm Beach, Fla. Filed Jan. 11, 1923.

SUG-OOTER

Particular description of goods.—Inflatable Swimming Device or Belt.
Claims use since July, 1922.

Ser. No. 174,515. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORA EWALD, Brooklyn, N. Y. Filed Jan. 12, 1923.



No specific claim to the color of the green clover is made.
Particular description of goods.—Toy Dolls.
Claims use since Dec. 16, 1922.

Ser. No. 174,583. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) M. J. MERKIN PAINT CO. INC., Long Island City, N. Y. Filed Jan. 13, 1923.

PLASTICOTE

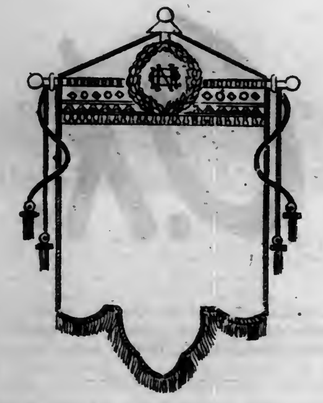
Particular description of goods.—Lead, Oil, and Zinc Paint for Outside and Inside Use.
Claims use since April, 1922.

Ser. No. 174,655. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Jan. 16, 1923.

PinWheelCrepe

Trade-mark consists of the words "Pin Wheel Crepe," no claim being made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Sept. 29, 1922.

Ser. No. 174,667. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Jan. 16, 1923.



Particular description of goods.—Woven Gray, Bleached, Printed, and Dyed Cotton Piece Goods—Namely, Drills, Denims, Khakis, Sateens, Canvases, Flannels, Chambrays, and Ginghams.
Claims use since January, 1913.

Ser. No. 174,676. (CLASS 5. ADHESIVES.) EDWARD P. STAHEL & CO., New York, N. Y. Filed Jan. 16, 1923.



Particular description of goods.—Rubber Tissue Applied for Reenforcing, Stiffening, and Waterproofing Parts of Garments and Textile Material in General.
Claims use since October, 1922.

Ser. No. 174,691. (CLASS 23, CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EIMER & AMEND, New York, N. Y. Filed Jan. 17, 1923.

"CRAIG BEAKTONG"

Particular description of goods.—Beaker Tongs.
Claims use since Oct. 24, 1922.

Ser. No. 174,702. (CLASS 17. TOBACCO PRODUCTS.) PENN TOBACCO COMPANY, Wilkes-Barre, Pa. Filed Jan. 17, 1923.

O.K.

Trade-mark consists of the symbol "O. K."
Particular description of goods.—Cigarettes.
Claims use since Jan. 5, 1923.

Ser. No. 174,707. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) INDIA KING STUBBS, Monroe, La. Filed Jan. 17, 1923.



No exclusive claim being made for the use of the representation of the doll shown except in connection with the other features of the trade-mark illustrated.
Particular description of goods.—Dolls and Contortional Figures.
Claims use since Dec. 14, 1922.

Ser. No. 174,718. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE AMERICAN DISPLAY COMPANY, Dayton, Ohio. Filed Jan. 18, 1923.

DELUXE

Particular description of goods.—Toy Electric Railway.
Claims use since Dec. 23, 1922.

Ser. No. 174,804. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SIDNEY C. VINCENT, Baltimore, Md. Filed Jan. 19, 1923.

JOLLY JINGLE

Particular description of goods.—Toy Alarm Clocks or Watches.
Claims use since about July 1, 1922.

Ser. No. 174,805. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WASHINGTON EMBROIDERY CO., New York, N. Y. Filed Jan. 19, 1923.



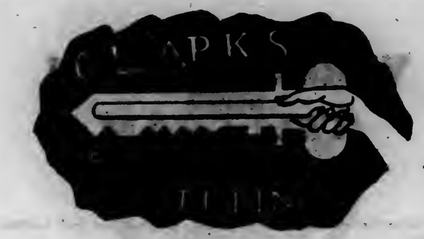
No claim is made for the exclusive use of the initial "W" apart from the mark as shown.
Particular description of goods.—Pillowcases, Bolster Cases, Bed Sheets, Shams, Scarfs, Table Covers, and Napkins.
Claims use since Jan. 8, 1923.

Ser. No. 174,970. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) R. W. MURRAY & CO., South Boston, Mass. Filed Jan. 23, 1923.

OLD PEP MALT EXTRACT

No claim is made to the use of the words "Malt Extract" apart from its association with the rest of the trade-mark.
Particular description of goods.—Malt Extract.
Claims use since Apr. 24, 1922.

Ser. No. 175,069. (CLASS 2. RECEPTACLES.) CLARK PATENT TUBING CO., Wheeling, W. Va. Filed Jan. 25, 1923.



No registration rights are claimed for the words "Patent Blasting Tubing" apart from the mark shown in the drawing; but applicant waives none of his common-law rights in said mark or any element thereof.
Particular description of goods.—Paper Tubes to be Used with Explosive Powder in Blasting.
Claims use since Nov. 13, 1922.

Ser. No. 175,086. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WALD KORN, Davenport, Iowa. Filed Jan. 25, 1923.

Cyclone

The trade-mark consists of the word "Cyclone."
Particular description of goods.—Motor Cycles.
Claims use since July 1, 1913.

Ser. No. 175,089. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LENAPE SILK COMPANY, East Stroudsburg, Pa. Filed Jan. 25, 1923.



No claim being made to the exclusive right to use the words "East Stroudsburg, Pa." apart from the mark shown in the drawing.
Particular description of goods.—Broad Silk Goods in the Piece.
Claims use since Dec. 22, 1922.

Ser. No. 175,135. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLARK TRUCTRACTOR COMPANY, Buchanan, Mich. Filed Jan. 26, 1923.



The drawing is lined to denote the colors in which the trade-mark appears. The rectangular base of the design is red and provided with a narrow white border, which in turn is enclosed by a narrow blue border. The letters on said base are white. The approximately triangular field over said base is blue, with a border comprising a narrow inner white stripe, then a narrow black stripe, then a comparatively wide yellow band, and an outer black stripe. The letters on said blue field that form the word "Clark" are yellow with a white border. The wheel-shaped figure over said word "Clark" has a white vertical central portion bordered with red, and the wings that extend from opposite ends of the hub of the wheel-shaped figure are yellow and red.
Particular description of goods.—Tractors.
Claims use since Oct. 7, 1919.

Ser. No. 175,196. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE HUPP PRODUCTS COMPANY, Columbus, Ohio. Filed Jan. 27, 1923.

LASTIKON

Particular description of goods.—Rubber-Composition Floor Covering.
Claims use since Jan. 10, 1923.

Ser. No. 175,208. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PARAMOUNT PAINT & VARNISH CO., Philadelphia, Pa. Field Jan. 27, 1923.

ADELPHIA

Particular description of goods.—Ready-Mixed Paint.
Claims use since Nov. 1, 1920.

Ser. No. 175,209. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PARAMOUNT PAINT & VARNISH CO., Philadelphia, Pa. Filed Jan. 27, 1923.

PARNAMEL

Particular description of goods.—White-Paint Enamel.
Claims use since Jan. 27, 1921.

Ser. No. 175,224. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STEVENS & COMPANY, INC., Providence, R. I. Filed Jan. 27, 1923.

Utility

Particular description of goods.—Ophthalmic Mountings and Parts Thereof.
Claims use since July 1, 1919.

Ser. No. 175,230. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AFRICAN & EASTERN TRADING CO., INC., New York, N. Y. Filed Jan. 29, 1923.



No claim made to the exclusive use of the words "African and Eastern Cottons" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 1, 1922.

Ser. No. 175,394. (CLASS 37. PAPER AND STATIONERY.) THE HIMMER BROTHERS CO., INC., Baltimore, Md. Filed Feb. 1, 1923.

SEAL-IN

Particular description of goods.—Waxed Paper.
Claims use since Jan. 1, 1923.

Ser. No. 175,419. (CLASS 37. PAPER AND STATIONERY.) JAMES R. CONNOR, Pittsburgh, Pa. Filed Feb. 2, 1923.

WIRELESS UNION TELEGRAM

Particular description of goods.—Envelopes and Letterheads.
Claims use since Oct. 2, 1922.

Ser. No. 175,673. (CLASS 15. OILS AND GREASES.) MILLER PETROLEUM COMPANY, Kansas City, Mo. Filed Feb. 7, 1923.

STARLIGHT

The lining represents merely shading.
Particular description of goods.—Kerosene.
Claims use since Mar. 16, 1921.

Ser. No. 175,885. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REMIEN & KUHNERT CO., Chicago, Ill. Filed Feb. 10, 1923.

FLOROLIN

Particular description of goods.—Varnishes.
Claims use since Feb. 8, 1923.

Ser. No. 175,906. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ZOLLINGER & SCHROTH, INC., New York, N. Y. Filed Feb. 10, 1923.

TWILIGHT CREPE

No claim being made to the word "Crepe" apart from the rest of the mark shown in the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 1, 1923.

Ser. No. 175,910. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 12, 1923.



Particular description of goods.—Spool Cotton, Sewing Cotton, Cotton Thread for Manufacturing Purposes, Cotton Yarn, Knitting Cotton, Crochet Cotton, Embroidery Cotton, Lace and Art Cotton, Darning Cotton, and Mending Cotton.
Claims use since Nov. 13, 1914.

Ser. No. 175,930. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRANT S. KELLEY INC., New York, N. Y. Filed Feb. 12, 1923.

CAMELLENE

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Oct. 25, 1922.

Ser. No. 175,938. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MARBLETEX CO., INC., West Hoboken, N. J., and New York, N. Y. Filed Feb. 12, 1923.

MARBLETEX

Particular description of goods.—Silks, Silk and Cotton Mixtures, Cotton Goods, Linens, and Draperies.
Claims use since Sept. 1, 1922.

Ser. No. 175,940. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NEWPORT COMPANY, Carrollville, Wis. Filed Feb. 12, 1923.

TERPOLINE

Particular description of goods.—Turpentine Substitutes.
Claims use since November, 1922.

Ser. No. 176,017. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 14, 1923.

QUADRIGA

Particular description of goods.—Cotton Piece Goods.
Claims use since about July 1, 1903.

Ser. No. 176,035. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES L. POOR CO., New York, N. Y. Filed Feb. 14, 1923.

CHIN-SUKI

The trade-mark shown in the accompanying drawing consists of the hyphened word "Chin-Suki."
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 25, 1922.

Ser. No. 176,038. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES L. POOR CO., New York, N. Y. Filed Feb. 14, 1923.

ENCHANTRESS

The trade-mark shown in the accompanying drawing consists of the word "Enchantress."
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 176,045. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SALEMBIER & CLAY, INC., New York, N. Y. Filed Feb. 14, 1923.

NAIROBI

Particular description of goods.—Silk Goods in the Piece.
Claims use since Jan. 29, 1923.

Ser. No. 176,114. (CLASS 37. PAPER AND STATIONERY.) CHAPIN & GOULD PAPER COMPANY, Springfield, Mass. Filed Feb. 16, 1923.

Chancery

Particular description of goods.—Writing and Printing Paper and Mailing Envelopes.
Claims use since Jan. 1, 1890.

Ser. No. 176,139. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, also doing business as The Western Company, Chicago, Ill. Filed Feb. 16, 1923.

IROQUOIS

Particular description of goods.—Handkerchiefs.
Claims use since Oct. 28, 1921.

Ser. No. 176,144. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, also doing business as The Western Company, Chicago, Ill. Filed Feb. 16, 1923.

SIOUX

Particular description of goods.—Handkerchiefs.
Claims use since Oct. 28, 1921.

Ser. No. 176,200. (CLASS 15. OILS AND GREASES.) MILLER PETROLEUM COMPANY, Kansas City, Mo. Filed Feb. 17, 1923.

Mētrol

The lining represents merely shading.
Particular description of goods.—Naphtha.
Claims use since Mar. 6, 1922.

Ser. No. 176,204. (CLASS 2. RECEPTACLES.) OVAL WOOD DISH CORPORATION, Tupper Lake, N. Y. Filed Feb. 17, 1923.

ADIRONDACK

Particular description of goods.—Wooden Plates.
Claims use since Dec. 8, 1922.

Ser. No. 176,209. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PETERS MANUFACTURING COMPANY, Boston, Mass. Filed Feb. 17, 1923.

Arbutus

As shown in the accompanying drawing, the trade-mark consists of the word "Arbutus."
Particular description of goods.—Shoe Fabrics.
Claims use since Nov. 1, 1919.

Ser. No. 176,210. (CLASS 15. OILS AND GREASES.) PETROLEUM EXPORT CORPORATION, Los Angeles, Calif. Filed Feb. 17, 1923.

GOLDEN HORSE



Particular description of goods.—Gasoline, Kerosene, Lubricating Oil, and Gas Oil.
Claims use since July 15, 1922.

Ser. No. 176,211. (CLASS 15. OILS AND GREASES.) PETROLEUM EXPORT CORPORATION, Los Angeles, Calif. Filed Feb. 17, 1923.



The lining on the drawing denotes the color red.
Particular description of goods.—Kerosene and Gasoline and Lubricating Oil.
Claims use since Oct. 1, 1920.

Ser. No. 176,240. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AD-PACKED HAIR NET CO., INC., New York, N. Y. Filed Feb. 19, 1923.

Blendwell

Particular description of goods.—Hair Nets.
Claims use since June 30, 1922.

Ser. No. 176,241. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AD-PACKED HAIR NET CO., INC., New York, N. Y. Filed Feb. 19, 1923.

BERNICE

Particular description of goods.—Hair Nets.
Claims use since July 24, 1922.

Ser. No. 176,242. (CLASS 42. (KNITTED, NETTED, AND TEXTILE FABRICS.) AD-PACKED HAIR NET CO., INC., New York, N. Y. Filed Feb. 19, 1923.

Primrose

Particular description of goods.—Hair Nets.
Claims use since Nov. 29, 1922.

Ser. No. 176,243. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AD-PACKED HAIR NET CO., INC., New York, N. Y. Filed Feb. 19, 1923.

Konomy

Particular description of goods.—Hair Nets.
Claims use since June 30, 1922.

Ser. No. 176,375. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

SILKY ICELAND

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since June, 1922.

Ser. No. 176,378. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

GLOWFLOSS

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since April, 1920.

Ser. No. 176,382. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

ANGORETWOOL

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since March, 1917.

Ser. No. 176,386. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MORTON J. VOGEL, New York, N. Y. Filed Feb. 20, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Ladies' and Children's Hand Bags, Purses, and Pocketbooks.
Claims use since Feb. 5, 1923.

Ser. No. 176,437. (CLASS 37. PAPER AND STATIONERY.) ALBANY PERFORATED WRAPPING PAPER CO., Albany, N. Y. Filed Feb. 23, 1923.



Particular description of goods.—Toilet Paper and Paper Towels.
Claims use since Jan. 13, 1923.

Ser. No. 176,445. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) EMMA MARY BRENCHLEY, New Malden, England. Filed Feb. 23, 1923.

CUE

Particular description of goods.—Cigarette Paper Cut into Small Sheets and Made into Cigarette Books.
Claims use since June 11, 1912.

Ser. No. 176,475. (CLASS 2. RECEPTACLES.) IOWA FIBER BOX COMPANY, Keokuk, Iowa. Filed Feb. 23, 1923.



Particular description of goods.—Fiber Boxes.
Claims use since Dec. 15, 1922.

Ser. No. 176,493. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OTTO L. NEUGASS, doing business as Pharaoh Drapery Company, New York, N. Y. Filed Feb. 23, 1923.

PHARAOH

The trade-mark in the accompanying drawing consists of the word "Pharaoh."
Particular description of goods.—Piece Goods Manufactured from Cotton and Silk and from Cotton and Artificial Silk.
Claims use since Feb. 20, 1923.

Ser. No. 176,494. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 23, 1923.

"LADY BLACKSTONE"

Particular description of goods.—Women's Suitcases.
Claims use since May 1, 1922.

Ser. No. 176,495. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 23, 1923.

"BLACKSTONE"

Particular description of goods.—Men's Suitcases.
Claims use since Jan. 1, 1921.

Ser. No. 176,496. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 23, 1923.

"EXECUTIVE"

Particular description of goods.—Portfolios (Brief Cases).
Claims use since July 1, 1920.

Ser. No. 176,506. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Feb. 23, 1923.

SPINTEX

Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixtures of Other Materials, for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust Preventing, Surface Preserving, and Tempering.
Claims use since July, 1921.

Ser. No. 176,606. (CLASS 5. ADHESIVES.) C. V. CRUMLEY, doing business as Tubetite Manufacturing Company, Tacoma, Wash. Filed Feb. 26, 1923.

Tubetite

Trade-mark "Tubetite."
Particular description of goods.—Compound for Preventing Punctures in Pneumatic Tires.
Claims use since July 8, 1922.

Ser. No. 176,638. (CLASS 2. RECEPTACLES.) MILWAUKEE BAG CO., Milwaukee, Wis. Filed Feb. 26, 1923.

"I THE RED STRING IS A BIG THING"

RED TYE

Particular description of goods.—Cloth Mailing Bags.
Claims use since Dec. 4, 1919.

Ser. No. 176,659. (CLASS 2. RECEPTACLES.) STANDARD PAPER COMPANY, Kalamazoo, Mich. Filed Feb. 26, 1923.

STANDARD PAPER COMPANY
SP Co

Particular description of goods.—Paper Cartons.
Claims use since 1913.

Ser. No. 176,674. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Feb. 27, 1923.

NILE QUEEN

Particular description of goods.—Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since May 6, 1921.

Ser. No. 176,689. (CLASS 5. ADHESIVES.) PENN PASTE MILLING COMPANY, Wilkes-Barre, Pa. Filed Feb. 27, 1923.

PENN
DRY
WALL SIZE

Exclusive use of the words "Dry" and "Wall Size" is disclaimed.
Particular description of goods.—Wall Sizes.
Claims use since Nov. 1, 1922.

Ser. No. 176,690. (CLASS 5. ADHESIVES.) PENN PASTE MILLING COMPANY, Wilkes-Barre, Pa. Filed Feb. 27, 1923.

JIFFY
DRY
PASTE

Exclusive use of the words "Dry" and "Paste" is disclaimed.
Particular description of goods.—Dry Pastes.
Claims use since July 1, 1920.

Ser. No. 176,691. (CLASS 5. ADHESIVES.) PRESS PASTE MILLING COMPANY, Wilkes-Barre, Pa. Filed Feb. 27, 1923.

MAGNET

DRY

PASTE

Exclusive use of the words "Dry" and "Paste" is disclaimed.

Particular description of goods.—Dry Pastes.

Claims use since July 1, 1920.

Ser. No. 176,788. (CLASS 5. ADHESIVES.) THE COMMERCIAL PASTE CO., Columbus, Ohio. Filed Mar. 1, 1923.



Particular description of goods.—Adhesive in the Form of Paste.

Claims use since Nov. 1, 1921.

Ser. No. 176,876. (CLASS 37. PAPER AND STATIONERY.) BERNIS PAPER COMPANY, Springfield, Mass. Filed Mar. 3, 1923.

Heirloom

Particular description of goods.—Writing and Printing Paper, Mailing Envelopes, and Papeteries.

Claims use since Mar. 1, 1923.

Ser. No. 176,877. (CLASS 37. PAPER AND STATIONERY.) BERNIS PAPER COMPANY, Springfield, Mass. Filed Mar. 3, 1923.



Particular description of goods.—Writing and Printing Paper, Mailing Envelopes, and Papeteries.

Claims use since Mar. 1, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 10, 1923.

166,532. PHONOGRAPH RECORDS FOR USE IN TEACHING MUSIC. FRED M. SCHNEIDER, doing business as The Schneider School of Music, Blue Island, Ill.
Filed June 5, 1922. Serial No. 165,039. PUBLISHED DECEMBER 26, 1922.

166,533. CERTAIN NAMED MUSICAL INSTRUMENTS AND SUPPLIES. BALDUR-PIANOFORTE-FABRIK AKTIEN-GESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed June 1, 1922. Serial No. 164,787. PUBLISHED JANUARY 2, 1923.

166,534. PHONOGRAPH NEEDLES. ARNOLD F. WILLAT, doing business as Everplay Needle Co., San Francisco, Calif.
Filed May 1, 1922. Serial No. 163,205. PUBLISHED DECEMBER 26, 1922.

166,535. SHEEP AND LAMBS' PELTS. THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand.
Filed March 28, 1922. Serial No. 161,379. PUBLISHED OCTOBER 10, 1922.

166,536. JEWELRY. J. M. FISHER CO., Attleboro, Mass.
Filed March 10, 1922. Serial No. 160,490. PUBLISHED DECEMBER 26, 1922.

166,537. ELECTRICAL APPARATUS CONSISTING OF AN ELECTRICAL GENERATING MACHINE AND BATTERY-CHARGING BENCHES. ESTATE OF CONSTANT POTENTIAL SYSTEM, Fort Worth, Tex.
Filed March 9, 1922. Serial No. 160,396. PUBLISHED JANUARY 2, 1923.

166,538. BUTTONHOOKS, SHOEHORNS, BUTTONHOOK AND SHOEHORN COMBINATIONS, AND GLOVE HOOKS. MAPPIN & WEBB LIMITED, Sheffield and London, England.
Filed February 17, 1922. Serial No. 159,474. PUBLISHED JANUARY 2, 1923.

166,539. REPEATING ATTACHMENTS FOR PHONOGRAPHS. GOLD SEAL CO., Palisades Park, N. J.
Filed February 13, 1922. Serial No. 159,258. PUBLISHED JANUARY 9, 1923.

166,540. CANDY. THE SMITH-KIRK CANDY CO., Toledo, Ohio.
Filed February 4, 1922. Serial No. 158,901. PUBLISHED DECEMBER 12, 1922.

166,541. ICE CREAM. NISSLEY CREAMERY COMPANY, Fort Worth, Tex.
Filed January 10, 1922. Serial No. 157,726. PUBLISHED JANUARY 9, 1923.

166,542. CANDIES. BETTY LOU COLLEGE CANDY COMPANY, Atlanta, Ga.
Filed September 7, 1921. Serial No. 152,670. PUBLISHED JANUARY 9, 1923.

166,543. TIMING SWITCHES FOR INTERNAL COMBUSTION ENGINES. CHARLES L. LILLEBERG, Chicago, Ill.
Filed September 2, 1921. Serial No. 152,511. PUBLISHED JANUARY 9, 1923.

166,544. REPRODUCERS, TONE ARMS, TONE MODIFIERS, AND AUTOMATIC STOPS, ALL IN CONNECTION WITH PHONOGRAPHS. JEWEL PHONOPARTS COMPANY, Chicago, Ill.
Filed July 18, 1921. Serial No. 150,589. PUBLISHED DECEMBER 26, 1922.

166,545. PIANOS. CENTRAL PIANO CO., Chicago, Ill.
Filed July 1, 1921. Serial No. 149,890. PUBLISHED DECEMBER 26, 1922.

166,546. ELECTRIC SADIRONS. GEORGE LORING, St. Louis, Mo.
Filed June 30, 1921. Serial No. 149,856. PUBLISHED JANUARY 9, 1923.

166,547. ELECTRIC MOTORS. AMERICAN RADIO AND RESEARCH CORPORATION, Medford, Mass.
Filed October 12, 1920. Serial No. 138,207. PUBLISHED DECEMBER 26, 1922.

166,548. LEATHER SHOES. MONUMENTAL SHOE MFG. CO. INC., Baltimore, Md.
Filed June 15, 1920. Serial No. 133,743. PUBLISHED FEBRUARY 15, 1921.

166,549. CIGARETTE CASES OF PRECIOUS METAL. FRENCH IVORY & METAL CORP., Providence, R. I.
Filed May 17, 1920. Serial No. 132,522. PUBLISHED DECEMBER 26, 1922.

166,550. BLOWPIPES. TORCHWELD, EQUIPMENT COMPANY, Chicago, Ill.
Filed October 21, 1921. Serial No. 154,854. PUBLICATION WAIVED.

166,551. PIECE GOODS COMPOSED OF AN ADMIXTURE OF WOOL AND COTTON. EDWARD RIPLEY & SON, LTD., Bradford, England.
Filed September 9, 1919. Serial No. 122,498. PUBLISHED APRIL 13, 1920.

166,552. RUBBER HEELS FOR SHOES. HOLTZER MANUFACTURING CO., Baltimore, Md.
Filed December 1, 1919. Serial No. 125,461. PUBLISHED DECEMBER 21, 1920.

166,553. IMITATION-PEARL NECKLACES. AMERICAN WATCH & DIAMOND COMPANY, New York, N. Y.
Filed October 21, 1922. Serial No. 171,007. PUBLISHED JANUARY 16, 1923.

166,554. ELECTRICAL APPARATUS, RADIO TELEPHONE AND TELEGRAPH, AND SIGNALING AND TRANSMISSION OF POWER APPARATUS. CHICAGO RADIO LABORATORY, Chicago, Ill.
Filed October 20, 1922. Serial No. 170,969. PUBLISHED JANUARY 9, 1923.

166,555. PHONOGRAPHS OR TALKING MACHINES AND PARTS THEREOF. THE LYNRES COMPANY, INC., New York, N. Y., assignor to Frank R. Lynch, New York, N. Y.
Filed October 19, 1922. Serial No. 170,941. PUBLISHED JANUARY 23, 1923.

166,556. RADIO APPARATUS CONSISTING OF VARIOMETERS, VARIOCOUPLERS, RHEOSTATS, CONDENSERS, PANELS, TRANSFORMERS, TUBE SOCKETS, RECEIVING SETS, AMPLIFYING UNITS, AND DETECTOR UNITS. THE DYER COMPANY, Cambridge, Mass.
Filed October 9, 1922. Serial No. 170,478. PUBLISHED JANUARY 9, 1923.

166,557. ELECTRIC LAMPS FOR USE IN PHOTOGRAPHIC AND MOVING-PICTURE STUDIOS AND FOR USE IN MAKING PHOTOGRAPHIC AND BLUE PRINTS. REPUBLIC PHOTOGRAPHIC CORPORATION, Ferguson, Mo., and New York, N. Y.
Filed October 5, 1922. Serial No. 170,339. PUBLISHED JANUARY 2, 1923.

166,558. RADIO APPARATUS—NAMELY, TRANSFORMERS, CONDENSERS, TELEPHONES, LOUD-SPEAKING TELEPHONES, TRANSMITTERS, RECEIVERS, AND AERIALS. THE FAIRMOUNT ELECTRIC AND MANUFACTURING COMPANY, Philadelphia, Pa.
Filed September 30, 1922. Serial No. 170,131. PUBLISHED JANUARY 9, 1923.

166,559. ELECTRICAL SWITCHES, SWITCHBOARDS AND SWITCH BOXES, ELECTRICAL PANEL BOARDS AND PANEL-BOARD CABINETS, ELECTRICAL DISTRIBUTION BOARDS, ELECTRICAL OUTLET BOXES, AND ELECTRICAL CONTROL APPARATUS. FRANK ADAM ELECTRIC CO., St. Louis, Mo.
Filed September 11, 1922. Serial No. 169,269. PUBLISHED JANUARY 2, 1923.

166,560. BIB HOLDERS, BABY PINS, CHAINS AND PENDANTS, LOCKETS, BRACELETS, RINGS, AND NECK CHAINS, ALL OF SAID ARTICLES BEING MADE WHOLLY OR IN PART OF STERLING SILVER, SILVER PLATE, GOLD, AND GOLD PLATE. MARATHON CO., Attleboro, Mass.
Filed September 8, 1922. Serial No. 169,218. PUBLISHED DECEMBER 26, 1922.

166,561. RADIOTELEPHONE RECEIVING SETS AND PARTS THEREOF. VITALIS HIMMER, New York, N. Y.
Filed September 5, 1922. Serial No. 169,058. PUBLISHED DECEMBER 26, 1922.

166,562. ELECTRIC INSULATING COMPOUND. THE WATERBURY BUTTON COMPANY, Waterbury, Conn.
Filed August 26, 1922. Serial No. 168,740. PUBLISHED JANUARY 9, 1923.

166,563. ELECTRIC FLASHERS FOR INTERMITTENT SIGNALS AND THE LIKE. BOSSARD RAILWAY SIGNAL CORPORATION, Troy, N. Y.
Filed August 25, 1922. Serial No. 168,667. PUBLISHED DECEMBER 26, 1922.

166,564. ELECTRICAL CONDENSERS. E. R. KNOTT MACHINE COMPANY, Boston, Mass.
Filed August 21, 1922. Serial No. 168,534. PUBLISHED DECEMBER 26, 1922.

166,565. ELECTRICAL FIXTURES, LAMP SOCKETS, AND BRACKETS. HITCHINGS-SPENCE, Lynn, Mass.
Filed July 31, 1922. Serial No. 167,615. PUBLISHED DECEMBER 26, 1922.

166,566. LADIES' HAND BAGS MADE OF OR PLATED WITH PRECIOUS METAL OR A COMBINATION OF SUCH METAL OR FABRIC. AUTOMATIC MESH-BAG CO., Providence, R. I.
Filed July 27, 1922. Serial No. 167,449. PUBLISHED JANUARY 2, 1923.

166,567. ELECTRICAL APPLIANCES USED IN CONNECTION WITH WIRELESS TELEPHONY OR THE LIKE. NEWMARKET TRADING COMPANY, INC., New York, N. Y.
Filed July 24, 1922. Serial No. 167,315. PUBLISHED DECEMBER 26, 1922.

166,568. PIANOS AND PLAYER PIANOS. THE WERNER INDUSTRIES COMPANY, Cincinnati, Ohio.
Filed July 11, 1922. Serial No. 166,755. PUBLISHED DECEMBER 26, 1922.

166,569. RADIO HORNS AND PHONOGRAPHIC TONE CHAMBERS USED AS SOUND AMPLIFIERS FOR RADIO RECEIVING APPARATUS. THE DAVISTONE COMPANY, Chicago, Ill.
Filed July 3, 1922. Serial No. 166,435. PUBLISHED DECEMBER 26, 1922.

166,570. CANNED VEGETABLES. EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah.
Filed June 30, 1922. Serial No. 166,298. PUBLISHED JANUARY 16, 1923.

166,571. CERTAIN ARTICLES MADE OF OR COATED WITH PRECIOUS METAL. COHN & ROSENBERGER, INC., New York, N. Y.
Filed June 23, 1922. Serial No. 165,912. PUBLISHED DECEMBER 26, 1922.

166,572. ELECTRIC-LIGHTING FIXTURES AND PARTS THEREOF. HALCOLITE COMPANY, INC., New York, N. Y.
Filed June 15, 1922. Serial No. 165,551. PUBLISHED JANUARY 9, 1923.

166,573. PEARLS. JOHN J. BONK, doing business as Lucile Pearl Company, New York, N. Y.
Filed October 26, 1922. Serial No. 171,200. PUBLISHED JANUARY 2, 1923.

166,574. ELECTRIC DRILLS, ELECTRIC HAMMERS, AND ELECTRIC GRINDERS. ELECTRO-MAGNETIC TOOL COMPANY, Cicero, Ill.
Filed October 23, 1922. Serial No. 171,068. PUBLISHED JANUARY 9, 1923.

166,575. FLUTES AND PICCOLOS. WM. S. HAYNES CO., Boston, Mass.
Filed October 26, 1922. Serial No. 171,215. PUBLISHED JANUARY 23, 1923.

166,576. TIMERS FOR INTERNAL-COMBUSTION ENGINES. ECLIPSE SPECIALTY MANUFACTURING COMPANY, Chicago, Ill.
Filed October 27, 1922. Serial No. 171,266. PUBLISHED JANUARY 9, 1923.

166,577. PHONOGRAPHS. LANSBURGH & BROTHER, Washington, D. C.
Filed October 31, 1922. Serial No. 171,424. PUBLISHED JANUARY 23, 1923.

166,578. ELECTRICAL APPARATUS. G & W ELECTRIC SPECIALTY CO., Chicago, Ill.
Filed November 6, 1922. Serial No. 171,638. PUBLISHED JANUARY 9, 1923.

166,579. STORAGE BATTERIES, MINE LAMPS, CHARGING APPARATUS FOR MINE LAMPS, AND PARTS OF SUCH ARTICLES AND APPARATUS. KOEHLER MANUFACTURING COMPANY, Marlboro, Mass.
Filed November 6, 1922. Serial No. 171,643. PUBLISHED JANUARY 9, 1923.

166,580. AUTOMATIC TELEPHONE SYSTEMS. AUTOMATIC ELECTRIC COMPANY, Chicago, Ill.
Filed November 8, 1922. Serial No. 171,721. PUBLISHED JANUARY 9, 1923.

166,581. HEADLIGHTS, SPOTLIGHTS, AND ELECTRIC LAMPS. DARSIE MANUFACTURING COMPANY, Los Angeles, Calif.
Filed November 13, 1922. Serial No. 171,907. PUBLISHED JANUARY 9, 1923.

166,582. PHONOGRAPH NEEDLES. GOLD SEAL CO., Palisades Park, N. J.
Filed November 14, 1922. Serial No. 171,992. PUBLISHED JANUARY 23, 1923.

166,583. TALKING-MACHINE RECORDS. GEORGE HOWLETT DAVIS, doing business as Dur-A-Tone Record Co., Orange, N. J.
Filed November 17, 1922. Serial No. 172,148. PUBLISHED JANUARY 23, 1923.

166,584. TALKING-MACHINE NEEDLES. JORDAN MARSH COMPANY, Boston, Mass.
Filed November 23, 1922. Serial No. 172,419. PUBLISHED JANUARY 23, 1923.

166,585. FIREARMS—NAMELY, SHOTGUNS—AND PARTS THEREOF. JACQUES L. GALEF, New York, N. Y.
Filed April 25, 1922. Serial No. 162,876. PUBLISHED JANUARY 30, 1923.

166,586. BRACELETS, NECKLACES, NECK CHAINS, KEY CHAINS, SAUTOIR CHAINS, CHAIN SWIVELS, CHAIN SPRING RIMS, CHAIN JUMP RINGS, AND BEAD SNAPS. LOUIS STERN COMPANY, Providence, R. I.
Filed November 9, 1922. Serial No. 171,769. PUBLISHED JANUARY 23, 1923.

166,587. ARTIFICIAL OR RECONSTRUCTED PEARLS. BAIRD-NORTH COMPANY, Providence, R. I:
Filed November 7, 1922. Serial No. 171,680. PUBLISHED JANUARY 2, 1923.

166,588. SILVER-PLATED FLATWARE CONSISTING OF SPOONS, FORKS, LADLES, AND THE LIKE. INTERNATIONAL SILVER COMPANY, Meriden, Conn.
Filed October 27, 1922. Serial No. 171,272. PUBLISHED JANUARY 23, 1923.

166,589. WATCHES. BENJAMIN LAZRUS, New York, N. Y.
Filed August 22, 1922. Serial No. 168,581. PUBLISHED DECEMBER 26, 1922.

166,590. PRINTING INKS. THERMATOMIC CARBON CO., Pittsburgh, Pa.
Filed August 7, 1922. Serial No. 167,905. PUBLISHED DECEMBER 26, 1922.

166,591. TYPEWRITER RIBBONS AND CARBON PAPER. WATERS & WATERS MFG. CO., St. Louis, Mo.
Filed August 3, 1922. Serial No. 167,788. PUBLISHED DECEMBER 26, 1922.

166,592. WRITING INK. HYGEIA GLASS CORPORATION, Buffalo, N. Y.
Filed June 24, 1922. Serial No. 165,996. PUBLISHED DECEMBER 26, 1922.

166,593. PHONOGRAPHS AND PHONOGRAPH RECORDS. JAMES A. HEARN & SON, INC., New York, N. Y.
Filed June 24, 1922. Serial No. 165,994. PUBLISHED JANUARY 9, 1923.

166,594. LAUNDRY NETS. PENDLETON MANUFACTURING COMPANY, Autun, S. C.
Filed May 2, 1922. Serial No. 163,239. PUBLISHED DECEMBER 26, 1922.

166,595. LAUNDRY NETS. PENDLETON MANUFACTURING COMPANY, Autun, S. C.
Filed May 2, 1922. Serial No. 163,238. PUBLISHED DECEMBER 26, 1922.

166,596. ALARM CLOCKS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 31, 1922. Serial No. 161,587. PUBLISHED JULY 18, 1922.

166,597. CHILDREN'S AND BOYS' WEAR—NAMELY, CHILDREN'S PLAY SUITS, CHILDREN'S WASH SUITS, BOYS' KNICKERBOCKERS, BOYS' BLOUSES, AND BOYS' SHIRTS. J. H. C. PETERSEN'S SONS COMPANY, Davenport, Iowa.
Filed September 26, 1921. Serial No. 153,867. PUBLISHED JANUARY 2, 1923.

166,598. LADIES' SUITS AND COATS. THE COHEN, FRIEDLANDER & MARTIN CO., Toledo, Ohio.
Filed August 22, 1921. Serial No. 152,003. PUBLISHED JANUARY 2, 1923.

166,599. MEN'S, YOUNG MEN'S, AND BOYS' OUTER GARMENTS — NAMELY, SUITS, OVERCOATS, SPRING COATS AND RAINCOATS. WOZNIAK & COMPANY, Chicago, Ill.
Filed August 2, 1921. Serial No. 151,302. PUBLISHED AUGUST 1, 1922.

166,600. MEN'S KNITTED COATS FOR OUTER WEAR. ALCONE KNITTING MILLS, San Francisco, Calif.
Filed July 16, 1921. Serial No. 150,427. PUBLISHED JANUARY 16, 1923.

166,601. MEN'S, BOYS', AND CHILDREN'S SUITS AND COATS. MARK BROTHERS, New York, N. Y.
Filed July 14, 1921. Serial No. 150,365. PUBLISHED JANUARY 9, 1923.

166,602. HOSIERY. NEAL & HYDE, INCORPORATED, Syracuse, N. Y.
Filed July 1, 1921. Serial No. 149,924. PUBLISHED MAY 23, 1922.

166,603. NECKTIES, CRAVATS, AND NECKSCARFS. ALBERT NECKWEAR MANUFACTURING COMPANY, Dallas, Tex.
Filed June 29, 1921. Serial No. 149,792. PUBLISHED JUNE 6, 1922.

166,604. LADIES' HATS. J. TENENBAUM & SONS, New York, N. Y.
Filed June 16, 1921. Serial No. 149,250. PUBLISHED DECEMBER 6, 1921.

166,605. LADIES' DRESSES. BETTY BROWN CO., Peoria, Ill.
Filed June 10, 1921. Serial No. 148,920. PUBLISHED DECEMBER 12, 1922.

166,606. LEATHER, FABRIC, OR RUBBER BELTS FOR SUPPORTING OUTER GARMENTS. THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio.
Filed June 1, 1921. Serial No. 148,499. PUBLISHED JANUARY 9, 1923.

166,607. MEN'S, YOUNG MEN'S, AND BOYS' OUTER SUITS, OVERCOATS, AND PANTS; BOYS' REEFERS; MEN'S COATS, MEN'S AND BOYS' MACKINAWS. A. M. COHEN, Baltimore, Md.
Filed May 31, 1921. Serial No. 148,435. PUBLISHED JANUARY 31, 1922.

166,608. COATS, BATHING SUITS, CAPES, CHILDREN'S DRESSES, INFANTS' DRESSES, SLEEVELESS DRESSES, AND ONE-PIECE STRAIGHT-LINE DRESSES. R. H. MACEY & CO., INC., New York, N. Y.
Filed May 28, 1921. Serial No. 148,393. PUBLISHED DECEMBER 12, 1922.

166,609. HOSIERY. WALTER E. PRUSAN, doing business as Sox Savor Company, New York, N. Y.
Filed May 11, 1921. Serial No. 147,578. PUBLISHED DECEMBER 12, 1922.

166,610. LEATHER BOOTS AND SHOES WITH RUBBER AND COMPOSITION SOLES. THOS. H. LOGAN CO., Hudson, Mass.
Filed August 3, 1920. Serial No. 135,759. PUBLISHED JANUARY 16, 1923.

166,611. KNITTED AND TEXTILE UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. WESTERN HOSIERY COMPANY, Chicago, Ill.
Filed May 7, 1921. Serial No. 147,384. PUBLISHED DECEMBER 12, 1922.

166,612. CORSETS, WAIST CORSETS, BRASSIÈRES. CHARLES MUNTER, New York, N. Y.
Filed December 20, 1920. Serial No. 141,321. PUBLISHED JANUARY 2, 1923.

166,613. CORSETS, WAIST CORSETS, BRASSIÈRES. CHARLES MUNTER, New York, N. Y.
Filed December 20, 1920. Serial No. 141,320. PUBLISHED JANUARY 2, 1923.

166,614. HOUSEHOLD SOAP. GUY E. BRIGNALL, doing business as Lite Soap Company, Aurora, Ill.
Filed July 21, 1922. Serial No. 167,159. PUBLISHED DECEMBER 26, 1922.

166,615. BOYS' OVERALLS AND MEN'S WORK SHIRTS. LOUISVILLE FURNISHING GOODS CO., Louisville, Ky.
Filed February 15, 1922. Serial No. 159,363. PUBLISHED JULY 18, 1922.

166,616. CHILDREN'S ROMPERS, OVERALLS, AND DRESSES. THE BABY SHOP, INC., San Francisco, Calif.
Filed July 31, 1919. Serial No. 121,143. PUBLISHED APRIL 11, 1922.

166,617. DIALS MADE OF HARD RUBBER FOR RADIO APPARATUS. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed August 11, 1922. Serial No. 168,093. PUBLISHED JANUARY 30, 1923.

166,618. SWEATERS. THE BENJAMIN MOSELEY CO., Needham, Mass.
Filed September 8, 1922. Serial No. 169,220. PUBLISHED JANUARY 9, 1923.

166,619. LADIES' AND CHILDREN'S DRESSES. MARGUERITE O'CALLAGHAN, New York, N. Y.
Filed September 7, 1922. Serial No. 169,180. PUBLISHED JANUARY 2, 1923.

166,620. LADIES' UNDERGARMENTS OF TEXTILE FABRIC. BU-TI-MAID PETTICOAT & PETTIPANTS CO., New York, N. Y.
Filed September 5, 1922. Serial No. 169,051. PUBLISHED JANUARY 2, 1923.

166,621. WOMEN'S AND CHILDREN'S BLOUSES, SKIRTS, DRESSES, BLOOMERS, AND KNICKERS. RUDOLPH F. HOMBERG, Boston, Mass.
Filed September 1, 1922. Serial No. 168,970. PUBLISHED JANUARY 9, 1923.

166,622. PYJAMAS. LESTER G. STEPPACHER CO. INC., Philadelphia, Pa.
Filed August 29, 1922. Serial No. 168,861. PUBLISHED JANUARY 2, 1923.

166,623. OVERALLS. HAPP BROTHERS CO., doing business as American Mfg. Co., Macon, Ga.
Filed August 29, 1922. Serial No. 168,843. PUBLISHED DECEMBER 19, 1922.

166,624. HOSIERY. FAIRSEX HOSIERY MILLS, INC., Philadelphia, Pa.
Filed August 25, 1922. Serial No. 168,677. PUBLISHED DECEMBER 19, 1922.

166,625. [WITHDRAWN.]

166,626. WAISTS AND HOSIERY. THE HOUSE OF BYER, Malden, Mass.
Filed August 23, 1922. Serial No. 168,612. PUBLISHED JANUARY 9, 1923.

166,627. KNITTED OUTER WEAR—NAMELY, SWEATERS AND SWEATER COATS FOR MEN, BOYS, WOMEN, MISSES, AND CHILDREN, KNITTED COATS AND KNITTED JACKETS AND SPORT COATS FOR MEN, BOYS, WOMEN, MISSES, AND CHILDREN. YUND, KENNEDY & YUND, Amsterdam, N. Y.
Filed August 24, 1922. Serial No. 168,658. PUBLISHED JANUARY 23, 1923.

166,628. WAISTS AND HOSIERY. THE HOUSE OF BYER, Malden, Mass.
Filed August 23, 1922. Serial No. 168,611. PUBLISHED DECEMBER 19, 1922.

166,629. COMBINATION UNDERGARMENT COMPRISING BRASSIERE, DRAWERS, AND PETTICOAT. GEM UNDERGARMENT CO. INC., New York, N. Y.
Filed August 19, 1922. Serial No. 168,467. PUBLISHED DECEMBER 19, 1922.

166,630. HOSIERY. CHAS. CHIPMAN'S SONS CO. INC., New York, N. Y.
Filed August 19, 1922. Serial No. 168,450. PUBLISHED DECEMBER 19, 1922.

166,631. HOSIERY FOR MEN. ATHENS HOSIERY MILLS, Athens, Tenn.
Filed August 16, 1922. Serial No. 168,289. PUBLISHED JANUARY 9, 1923.

166,632. BABY BATH ROBES. JACOB KAPLAN, New York, N. Y.
Filed August 14, 1922. Serial No. 168,218. PUBLISHED JANUARY 9, 1923.

166,633. DRESS SHIRTS, NEGLIGEE AND WORK SHIRTS, BLOUSES, AND SWEATERS. J. M. CRYSLER CO., Boston, Mass.
Filed August 14, 1922. Serial No. 168,207. PUBLISHED JANUARY 9, 1923.

166,634. JAMS, JELLIES, AND ICINGS. AMERICAN SYRUP COMPANY, INC., Boston, Mass.
Filed August 14, 1922. Serial No. 168,192. PUBLISHED FEBRUARY 6, 1923.

166,635. WEARING APPAREL—NAMELY, GIRLS' DRESSES. JACK WARSHAUER, New York, N. Y.
Filed August 12, 1922. Serial No. 168,186. PUBLISHED JANUARY 9, 1923.

166,636. WEARING APPAREL—NAMELY, BOYS' SUITS. JACK WARSHAUER, New York, N. Y.
Filed August 12, 1922. Serial No. 168,185. PUBLISHED JANUARY 9, 1923.

166,637. HOSIERY, SWEATERS OF WOOL, SILK, OR MIXTURES, AND LADIES' SCARFS OF SILK OR WOOL, AND LADIES' KNIT UNDERWEAR. MAASS & KEMPER, Baltimore, Md.
Filed June 21, 1922. Serial No. 165,800. PUBLISHED DECEMBER 19, 1922.

166,638. HOSIERY. CHESTER KNITTING MILLS, St. Louis, Mo.
Filed June 28, 1922. Serial No. 166,172. PUBLISHED JANUARY 2, 1923.

166,639. HOSIERY. CHESTER KNITTING MILLS, St. Louis, Mo.
Filed June 28, 1922. Serial No. 166,171. PUBLISHED JANUARY 2, 1923.

166,640. CHILDREN'S SUITS AND BLOUSES. SAMUEL BERNSTEIN & SONS, New York, N. Y.
Filed June 26, 1922. Serial No. 166,164. PUBLISHED DECEMBER 12, 1922.

166,641. MEN'S AND WOMEN'S SCARFS, MISSES' AND WOMEN'S KNIT SKIRTS; MISSES', BOYS', MEN'S, AND WOMEN'S SWEATERS; MEN'S JERSEYS, MEN'S SPORT COATS, BATHING SUITS, SHAWLS, CHILDREN'S LEGGINGS, AND HUGME-TIGHTS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed June 28, 1922. Serial No. 165,930. PUBLISHED DECEMBER 12, 1922.

166,642. HOSIERY AND ONE, TWO, AND THREE PIECE UNDERWEAR MADE OF KNITTED AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN. ISRAEL MANNDOVITCH, Jr., doing business as Schenectady Knit Goods House, Schenectady, N. Y.
Filed June 21, 1922. Serial No. 165,806. PUBLISHED JANUARY 9, 1923.

166,643. SUITS FOR BOYS; DRESSES, ROMPERS, AND CREEPERS FOR CHILDREN, AND COATS FOR BOYS. NATHAN N. GREENBERG, Philadelphia, Pa.
Filed June 21, 1922. Serial No. 165,789. PUBLISHED JANUARY 9, 1923.

166,644. HOSIERY. MAX BAUM, New York, N. Y.
Filed June 17, 1922. Serial No. 165,615. PUBLISHED JANUARY 2, 1923.

166,645. MEN'S AND BOYS' CLOTH CAPS AND HATS. JOHN MILLER CAP CO. INC., Buffalo, N. Y.
Filed June 16, 1922. Serial No. 165,592. PUBLISHED DECEMBER 19, 1922.

166,646. CUTLERY—VIZ., RAZORS AND SCISSORS MADE OF SOLID STEEL. WEBSTER BROS., New York, N. Y.
Filed June 6, 1922. Serial No. 165,104. PUBLISHED JANUARY 23, 1923.

166,647. CONTAINERS OR CABINETS FOR HOLDING AND DISPLAYING GOODS, AND PARTICULARLY FOR SILVERWARE AND ELECTROPLATED WARE AND CUTLERY. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed May 18, 1922. Serial No. 164,066. PUBLISHED JANUARY 23, 1923.

166,648. OUTER GARMENTS—TO WIT, SUITS AND OVERCOATS FOR MEN, AND SUITS, SKIRTS, AND COATS FOR WOMEN, MANUFACTURED FROM WOOLENS AND WORSTEDS. WALLACH, HOEXTER & CO., New York, N. Y.
Filed March 24, 1922. Serial No. 161,219. PUBLISHED DECEMBER 12, 1922.

166,649. INFANTS' AND GIRLS' COATS. KIDDIE COAT MANUFACTURING CO., New York, N. Y.
Filed March 22, 1922. Serial No. 161,078. PUBLISHED JANUARY 23, 1923.

166,650. PISTON PINS. WARREN F. FRASER COMPANY, Westboro, Mass.
Filed March 21, 1922. Serial No. 161,001. PUBLISHED JANUARY 9, 1923.

166,651. RAZORS AND SCISSORS. ADOLPH KASTOR & BROS., New York, N. Y.
Filed February 28, 1922. Serial No. 159,972. PUBLISHED MAY 9, 1922.

166,652. REGASIFYING ATTACHMENTS FOR INTERNAL-COMBUSTION MOTORS. MAXO PRODUCTS CORPORATION, New York, N. Y.
Filed November 17, 1921. Serial No. 155,511. PUBLISHED JANUARY 9, 1923.

166,653. GRAIN-CLEANING MACHINES. THE WONDER GRAIN CLEANER COMPANY, St. Paul, Minn.
Filed August 3, 1921. Serial No. 151,341. PUBLISHED JANUARY 9, 1923.

166,654. PUMPS. CONSOLIDATED ACCESSORIES MANUFACTURERS CORPORATION, Frederick, Md.
Filed June 16, 1921. Serial No. 149,214. PUBLISHED JANUARY 9, 1923.

166,655. WRITING FLUIDS. ALBERT B. FLAGG, New York, N. Y., assignor to Flagg Ink Company, Inc., New York, N. Y., a Corporation of New York.
Filed May 24, 1921. Serial No. 148,139. PUBLISHED DECEMBER 26, 1922.

166,656. DENTAL CREAM. JAMES MACDONALD, New York, N. Y.
Filed October 4, 1919. Serial No. 123,442; PUBLISHED JUNE 22, 1920.

166,657. HOSIERY. MANSMANN BROTHERS, INC., Pittsburgh, Pa.
Filed May 24, 1922. Serial No. 164,446. PUBLISHED DECEMBER 12, 1922.

166,658. MEN'S STRAW AND FELT HATS. PARAGON HAT COMPANY, Chicago, Ill.
Filed May 29, 1922. Serial No. 164,665. PUBLISHED JANUARY 9, 1923.

166,659. TOMATO SAUCE, TOMATO PASTE, FRUIT PRESERVES, CANNED FRUITS, AND CANNED VEGETABLES. BROOKLYN HEIGHTS CANNING COMPANY, Los Angeles, Calif.
Filed June 3, 1922. Serial No. 164,855. PUBLISHED JANUARY 30, 1923.

166,660. HAMS AND BACON. HIGGIN'S PACKING COMPANY, Omaha, Nebr.
Filed June 3, 1922. Serial No. 164,908. PUBLISHED JANUARY 30, 1923.

166,661. KNICKERBOCKERS OR BLOOMERS TO BE WORN AS OUTER GARMENTS OR UNDERGARMENTS BY MEN, WOMEN, AND CHILDREN. KENILWORTH MANUFACTURING CO. INC., New York, N. Y.
Filed June 3, 1922. Serial No. 164,923. PUBLISHED DECEMBER 19, 1922.

166,662. CANNED CLAMS. GUS. STRAND, doing business as Strand Fisheries, Aberdeen, Wash.
Filed June 3, 1922. Serial No. 164,971. PUBLISHED JANUARY 30, 1923.

166,663. CANNED FRUITS AND CANNED VEGETABLES. STARR FRUIT PRODUCTS CO., Portland, Oreg.
Filed June 3, 1922. Serial No. 164,973. PUBLISHED FEBRUARY 6, 1923.

166,664. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. THE C. J. GESSING & SONS COMPANY, Cincinnati, Ohio.
Filed June 5, 1922. Serial No. 165,016. PUBLISHED DECEMBER 19, 1922.

166,665. DRESSES. BARBARA ANN DRESS SHOPS, INC., New York, N. Y.
Filed June 6, 1922. Serial No. 165,055. PUBLISHED JANUARY 2, 1923.

166,666. SHOULDERS, HAMS, LARD, AND BACON. THE URBANA PACKING CO., Urbana, Ohio.
Filed June 8, 1922. Serial No. 165,219. PUBLISHED JANUARY 30, 1923.

166,667. STRAW HATS FOR MEN, WOMEN, AND CHILDREN. DEMMERLE & CO., New York, N. Y.
Filed June 10, 1922. Serial No. 165,274. PUBLISHED DECEMBER 12, 1922.

166,668. FRESH FRUITS—NAMELY, BERRIES. CENTRAL CALIFORNIA BERRY GROWERS ASSOCIATION, San Francisco, Calif.
Filed June 10, 1922. Serial No. 165,270. PUBLISHED FEBRUARY 6, 1923.

166,669. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. MICHAEL COHN, doing business as Cohn's Credit Clothing Co., Brooklyn, N. Y.
Filed June 12, 1922. Serial No. 165,349. PUBLISHED DECEMBER 19, 1922.

166,670. MEN'S, WOMEN'S, AND CHILDREN'S OUTDOOR CLOTHING—NAMELY, MEN'S NEGLIGEE AND WORK SHIRTS, BREECHES, PANTS, COATS, HATS, HOSE, BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SAME. MEIER & FRANK CO., Portland, Oreg.
Filed June 12, 1922. Serial No. 165,402. PUBLISHED JANUARY 16, 1923.

166,671. LADIES' HATS. PREMUS HAT MANUFACTURING COMPANY, INC., New York, N. Y.
Filed June 14, 1922. Serial No. 165,503. PUBLISHED DECEMBER 12, 1922.

166,672. MEN'S WORK SHIRTS, BOYS' WORK SHIRTS, BOYS' BLOUSES AND PLAY SUITS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed June 14, 1922. Serial No. 165,506. PUBLISHED JANUARY 9, 1923.

166,673. KNICKERBOCKERS OR BLOOMERS TO BE WORN AS OUTER GARMENTS OR UNDERGARMENTS BY MEN, WOMEN, AND CHILDREN. KENILWORTH MANUFACTURING CO. INC., New York, N. Y.
Filed June 15, 1922. Serial No. 165,553. PUBLISHED DECEMBER 19, 1922.

166,674. MACARONI. PRINCE MACARONI MFG. CO., Boston, Mass.
Filed June 19, 1922. Serial No. 165,708. PUBLISHED JANUARY 30, 1923.

166,675. FRESH FRUITS—NAMELY, APPLES. SPOKANE VALLEY GROWERS UNION, Opportunity, Wash.
Filed June 19, 1922. Serial No. 165,723. PUBLISHED JANUARY 30, 1923.

166,676. PIANOS AND PLAYER PIANOS. THE WERNER INDUSTRIES COMPANY, Cincinnati, Ohio.
Filed July 11, 1922. Serial No. 166,756. PUBLISHED DECEMBER 26, 1922.

166,677. LUBRICATING OILS PARTICULARLY FOR HOUSEHOLD USE. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J.
Filed November 7, 1922. Serial No. 171,711. PUBLISHED JANUARY 23, 1923.

166,678. FUEL-TREATING DEVICES TO BE INSTALLED IN THE PATH OF INCOMING COMBUSTIBLE MIXTURES IN INTERNAL-COMBUSTION ENGINES. VIOLA ROOT CAMERON, New York, N. Y.
Filed October 3, 1922. Serial No. 170,260. PUBLISHED JANUARY 9, 1923.

166,679. WRENCHES. F. L. SMITHE MACHINE COMPANY, INCORPORATED, New York, N. Y.
Filed September 29, 1922. Serial No. 170,098. PUBLISHED JANUARY 9, 1923.

166,680. HAND FIRE EXTINGUISHER. AMERICAN LA FRANCE FIRE ENGINE COMPANY, INC., Elmira, N. Y.
Filed September 27, 1922. Serial No. 169,965. PUBLISHED JANUARY 9, 1923.

166,681. HACK SAWS. DARWIN & MILNER, INC., Cleveland, Ohio.
Filed September 16, 1922. Serial No. 169,537. PUBLISHED JANUARY 9, 1923.

166,682. HACK SAWS. DARWIN & MILNER, INC., Cleveland, Ohio.
Filed September 16, 1922. Serial No. 169,536. PUBLISHED JANUARY 9, 1923.

166,683. GRAIN SEPARATING AND CLEANING MACHINES. CARTER-MAYHEW MANUFACTURING COMPANY, Minneapolis, Minn.
Filed August 14, 1922. Serial No. 168,204. PUBLISHED JANUARY 23, 1923.

166,684. PRINTING AND LITHOGRAPHIC INKS. HOWARD FLINT INK CO., Detroit, Mich.
Filed August 23, 1922. Serial No. 168,602. PUBLISHED DECEMBER 26, 1922.

166,685. HOSIERY. THE SIMONS & STREVE HOSIERY CO., Philadelphia, Pa.
Filed July 15, 1922. Serial No. 166,961. PUBLISHED JANUARY 9, 1923.

166,686. MEN'S OUTER CLOTHING CONSISTING OF SUITS AND OVERCOATS. SOUTHERN CLOTHING COMPANY, INC., Petersburg, Va.
Filed July 17, 1922. Serial No. 167,026. PUBLISHED JANUARY 9, 1923.

166,687. KNITTED FABRIC UNDERWEAR FOR MEN AND BOYS. STANDARD KNITTING MILLS, Knoxville, Tenn.
Filed July 18, 1922. Serial No. 167,056. PUBLISHED JANUARY 9, 1923.

166,688. OVERALLS. ALABAMA OVERALL COMPANY, Scottsboro, Ala.
Filed July 28, 1922. Serial No. 167,504. PUBLISHED JANUARY 2, 1923.

166,689. OVERALLS AND JUMPERS. BLUE STAR OVERALL COMPANY, Norwich, Conn.
Filed August 11, 1922. Serial No. 168,095. PUBLISHED DECEMBER 5, 1922.

166,690. HOSIERY. THE POWELL KNITTING COMPANY, Philadelphia, Pa.
Filed June 29, 1922. Serial No. 166,246. PUBLISHED JANUARY 9, 1923.

166,691. CHILDREN'S READY-TO-WEAR CLOTHING—NAMELY, OVERALL COMBINATION SUITS MADE OF KHAKI DRILL, DENIM, AND STIFEL DRILL MATERIALS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed June 29, 1922. Serial No. 166,258. PUBLISHED JANUARY 2, 1923.

166,692. MEN'S, WOMEN'S, AND CHILDREN'S KNIT AND NAINSOOK UNDERWEAR, WOMEN'S KNIT OR GLOVE SILK UNDERWEAR, WOMEN'S AND CHILDREN'S KNIT BLOOMERS, AND CHILDREN'S KNIT UNDERWAISTS. WALKER STETSON COMPANY, Boston, Mass.
Filed July 1, 1922. Serial No. 166,421. PUBLISHED JANUARY 9, 1923.

166,693. DRESS, NEGLIGEE, AND PLAITED SHIRTS. ROBERT TREAT SHIRT MANUFACTURING CO., Newark, N. J.
Filed July 7, 1922. Serial No. 166,584. PUBLISHED JANUARY 2, 1923.

166,694. LADIES' DRESSES, SHIRT WAISTS, BLOUSES, ROMPERS, UNDERWEAR OF TEXTILE FABRIC, APRONS, KIMONAS, AND SKIRTS. ANNE QUINN, Lake View, Iowa.
Filed July 8, 1922. Serial No. 166,606. PUBLISHED DECEMBER 12, 1922.

166,695. LADIES' WAISTS. ELY WAIST, INC., New York, N. Y.
Filed July 13, 1922. Serial No. 166,824. PUBLISHED DECEMBER 19, 1922.

166,696. MEN'S DRESS SHIRTS. BELCRAFT SHIRT COMPANY, New York, N. Y.
Filed July 14, 1922. Serial No. 166,872. PUBLISHED JANUARY 2, 1923.

166,697. ROACH-EXTERMINATING POISON. PIED PIPERS OF AMERICA, New York, N. Y.
Filed July 14, 1922. Serial No. 166,903. PUBLISHED JANUARY 30, 1923.

166,698. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY; KNIT AND CUT UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; KNITTED SWEATERS, AND MEN'S WORK SHIRTS. KLEIN, GORDON & COMPANY, Detroit, Mich.
Filed August 10, 1922. Serial No. 168,047. PUBLISHED DECEMBER 12, 1922.

166,699. MEN'S ATHLETIC UNDERWEAR. NANTEX MFG. CO., INC., New York, N. Y.
Filed August 25, 1922. Serial No. 168,687. PUBLISHED JANUARY 23, 1923.

166,700. NECKBANDS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed August 3, 1922. Serial No. 167,782. PUBLISHED JANUARY 9, 1923.

166,701. DRESS SHIRTS, NEGLIGEE SHIRTS, AND WORK SHIRTS; COLLARS, CUFFS, PYJAMAS, AND NIGHTSHIRTS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed August 3, 1922. Serial No. 167,781. PUBLISHED JANUARY 23, 1923.

166,702. DRESSES. JEROME FRANK & CO., New York, N. Y.
Filed August 2, 1922. Serial No. 167,719. PUBLISHED JANUARY 9, 1923.

166,703. MACARONI, SPAGHETTI, AND VERMICELLI. SUSSMAN, WORMSER & CO., San Francisco, Calif.
Filed July 26, 1922. Serial No. 167,431. PUBLISHED FEBRUARY 6, 1923.

166,704. LADIES' CLOAKS, SUITS, AND SKIRTS. HYMAN DIRECTOR, Los Angeles, Calif.
Filed July 26, 1922. Serial No. 167,385. PUBLISHED DECEMBER 12, 1922.

166,705. KNICKERBOCKERS FOR MEN, WOMEN, AND CHILDREN. SOLOMON MFG. CO., St. Louis, Mo.
Filed July 24, 1922. Serial No. 167,331. PUBLISHED DECEMBER 12, 1922.

166,706. MEN'S AND BOYS' WORK SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed July 22, 1922. Serial No. 167,268. PUBLISHED JANUARY 9, 1923.

166,707. HOSIERY. VIXEN, INC., Newark, N. J.
Filed July 18, 1922. Serial No. 167,061. PUBLISHED JANUARY 9, 1923.

166,708. KNITTED FABRIC UNDERWEAR FOR MEN AND BOYS. STANDARD KNITTING MILLS, Knoxville, Tenn.
Filed July 18, 1922. Serial No. 167,058. PUBLISHED JANUARY 9, 1923.

166,709. KNITTED FABRIC UNDERWEAR FOR MEN AND BOYS. STANDARD KNITTING MILLS, Knoxville, Tenn.
Filed July 18, 1922. Serial No. 167,057. PUBLISHED JANUARY 9, 1923.

166,710. TEA. J. C. WHITNEY COMPANY, Chicago, Ill.
Filed July 17, 1922. Serial No. 167,035. PUBLISHED JANUARY 23, 1923.

166,711. MEN'S CLOTHING CONSISTING OF SUITS, COATS, AND TOPCOATS OR OVERCOATS. WILLIAM F. MORAN, Philadelphia, Pa.
Filed December 21, 1921. Serial No. 157,000. PUBLISHED JULY 11, 1922.

166,712. CORSETS. THE WARNER BROTHERS COMPANY, Bridgeport, Conn.
Filed December 12, 1921. Serial No. 156,610. PUBLISHED JANUARY 9, 1923.

166,713. LADIES' APRONS. MORRIS SHARAF, Boston, Mass.
Filed November 28, 1921. Serial No. 156,027. PUBLISHED JANUARY 2, 1923.

166,714. TEMPERATURE-CONTROLLED VALVES, RELIEF VALVES, VACUUM VALVES, AND PIPE FITTINGS. STACK HEATER COMPANY, Boston, Mass.
Filed November 10, 1921. Serial No. 155,276. PUBLISHED JULY 18, 1922.

166,715. CHILDREN'S HOSIERY. W. T. GRANT CO., New York, N. Y.
Filed November 8, 1921. Serial No. 155,167. PUBLISHED MAY 9, 1922.

166,716. WHEAT FLOUR. J. B. CAMORS & COMPANY INC., New Orleans, La.
Filed November 8, 1921. Serial No. 155,160. PUBLISHED AUGUST 1, 1922.

166,717. CERTAIN NAMED MACHINERY, TOOLS, AND PARTS THEREOF. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed June 24, 1921. Serial No. 149,610. PUBLISHED JANUARY 23, 1923.

166,718. PIANOS AND PLAYER PIANOS. STEGER & SONS PIANO MANUFACTURING COMPANY, Chicago, Ill.
Filed June 4, 1921. Serial No. 148,678. PUBLISHED JANUARY 2, 1923.

166,719. MEN'S AND BOYS' SHIRTS OF FLANNEL AND FLANNELETTE, NIGHT SHIRTS, AND PYJAMAS. RAUH BROS. & CO., Pittsburgh, Pa.
Filed May 17, 1922. Serial No. 164,009. PUBLISHED DECEMBER 12, 1922.

166,720. CANDIES. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah.
Filed May 9, 1922. Serial No. 163,588. PUBLISHED FEBRUARY 6, 1923.

166,721. CHILDREN'S UNDERWEAR OF TEXTILE FABRIC. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed April 5, 1922. Serial No. 161,807. PUBLISHED JANUARY 2, 1923.

166,722. WOMEN'S, MISSES', GIRLS,' AND CHILDREN'S HATS, CAPS, AND BONNETS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed April 5, 1922. Serial No. 161,805. PUBLISHED JANUARY 2, 1923.

166,723. SPORT CLOTHES FOR WOMEN—NAMELY, SPORT COATS, SPORT SUITS, AND SPORT DRESSES. ELENORE GROSSMAN, New York, N. Y.
Filed March 20, 1922. Serial No. 160,936. PUBLISHED JANUARY 9, 1923.

166,724. UNDERWEAR FOR MEN IN ONE AND TWO PIECE GARMENTS OF KNIT AND WOVEN FABRIC. SCHEINZEIT-GOLDMAN CO., New York, N. Y.
Filed March 11, 1922. Serial No. 160,567. PUBLISHED DECEMBER 12, 1922.

166,725. HOSIERY AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, IN ONE AND TWO PIECE GARMENTS MADE OF KNIT AND WOVEN FABRICS. SCHEINZEIT-GOLDMAN CO., New York, N. Y.
Filed March 11, 1922. Serial No. 160,565. PUBLISHED DECEMBER 12, 1922.

166,726. CORSETS AND BRASSIÈRES. L. BAMBERGER & CO., Newark, N. J.
Filed March 10, 1922. Serial No. 160,486. PUBLISHED JANUARY 16, 1923.

166,727. BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J.
Filed February 24, 1922. Serial No. 159,744. PUBLISHED JULY 18, 1922.

166,728. UNDERWEAR, NIGHTGOWNS, AND BATHING SUITS. VANITY FAIR SILK MILLS, Reading, Pa.
Filed February 14, 1922. Serial No. 159,329. PUBLISHED DECEMBER 12, 1922.

166,729. SILK UNDERGARMENTS FOR WOMEN AND CHILDREN. LANDE & MISKEND, New York, N. Y.
Filed September 12, 1922. Serial No. 169,364. PUBLISHED JANUARY 23, 1923.

166,730. HOSIERY. INDIAN QUEEN SILK CO., Bangor, Pa.
Filed September 11, 1922. Serial No. 169,303. PUBLISHED JANUARY 9, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

166,731. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NUSTONE PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 5, 1921. Serial No. 141,866.

NUSTONE

Particular description of goods.—Stationary Laundry Tubs.
Claims use since about Aug. 1, 1920.

166,732. (CLASS 37. PAPER AND STATIONERY.) S. D. WARREN COMPANY, Boston, Mass. Filed Mar. 29, 1921. Serial No. 145,422.

OLDE STYLE

Particular description of goods.—Printing Paper.
Claims use since about July 1, 1912.

166,733. (CLASS 39. CLOTHING.) THE ROWLEY CO., Chicago, Ill. Filed July 22, 1921. Serial No. 150,826.

The Unusual

Particular description of goods.—Aprons and Frocks.
Claims use since Jan. 25, 1921.

166,734. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE MCCONWAY & TORLEY COMPANY, Pittsburgh, Pa. Filed Sept. 22, 1921. Serial No. 153,222.

JANNEY PENN

Particular description of goods.—Automatic Car Couplers of the Master Car Builders' or Vertical-Plane Type and Parts Thereof.
Claims use since Mar. 18, 1910.

166,735. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RIVERSIDE PAINT & VARNISH COMPANY, Boston, Mass. Filed Apr. 3, 1922. Serial No. 161,702.

RIVERSIDE PRODUCTS
Flow Smoothly

Particular description of goods.—Ready-Mixed, Dry, and Paste Paints; Oil, Spirit, and Color Varnishes; Japans, Driers, Paint Enamels, Automobile and Furniture Polishes, Grinding and Mixing Oils, Stains, Paint Pigments, Paint Gums, and Paint Liquids.
Claims use since Feb. 7, 1921.

166,736. (CLASS 12. CONSTRUCTION MATERIALS.) VIRGINIA WOODWORKING CO., INC., Bristol, Va. Filed Apr. 19, 1922. Serial No. 162,506.

LONGWEAR

Particular description of goods.—Construction Materials—Namely, Windows, Doors, Wood Flooring; Millwork, or Manufactured Wood Products Used for Interior Finishing on the Following—Namely, Built-In Tables, Built-In Beds, and Built-In Ironing Boards; and Manufactured Lumber Either in the Rough or Dressed Four Sides, Manufactured From the Logs for Marketing in Wholesale Quantities.
Claims use since Jan. 1, 1918.

166,737. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. G. FLECKENSTEIN COMPANY, Muskegon Heights, Mich. Filed July 1, 1922. Serial No. 166,359.

MANISTEE

Particular description of goods.—Sole-Leather Sides, Bends, Backs, Strips, Blocks, and Leather Cut Therefrom, and Leather From Which Soles and Heels are Cut.
Claims use since 1915.

166,738. (CLASS 23. LOCKS AND SAFES.) THE SUPERIOR METAL PRODUCTS COMPANY, Elyria, Ohio. Filed July 8, 1922. Serial No. 166,731.

SUPERIOR

Particular description of goods.—Locking Steering Wheels for Automobiles.
Claims use since Jan. 14, 1914.

166,739. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) DU BOIS MACHINE COMPANY, Albany, N. Y. Filed Aug. 26, 1922. Serial No. 168,712.

DuBois

Particular description of goods.—Piston Rings.
Claims use since 1915.

166,740. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDARD CONVEYOR COMPANY, North St. Paul, Minn. Filed Sept. 18, 1922. Serial No. 169,609.

STANDARD

Particular description of goods.—Gravity Conveyers, Pneumatic Conveyers, Slat Power Conveyers, Belt Conveyers, Incline Elevators, Automatic Elevators, Spirals, and Parts Thereof.
Claims use since Sept. 21, 1918.

166,741. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MUELLER METALS COMPANY, Port Huron, Mich. Filed Oct. 7, 1922. Serial No. 170,445.

MUELLER

Particular description of goods.—Rods, Die Castings, Sand Castings, and Forgings of Nonferrous Metal.
Claims use since on or about June 1, 1921.

166,742. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FRIED & GOTTHELF, Vicksburg, Miss. Filed Dec. 2, 1922. Serial No. 172,832.

A BLOOMING GOOD DRINK

Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as Soft Drinks.
Claims use since July 1, 1919.

166,743. (CLASS 37. PAPER AND STATIONERY.) CORONA PEN COMPANY, Janesville, Wis. Filed Dec. 26, 1922. Serial No. 173,809.

"HAF TURN"

Particular description of goods.—Fountain Pen.
Claims use since Feb. 25, 1922.

166,744. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THOMAS F. CASEY, doing business as Ryan & Casey, Greenfield, Mass. Filed Jan. 8, 1923. Serial No. 174,288.

GLEN BROOK

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Mar. 1, 1911.

166,745. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 10, 1923. Serial No. 174,418.

WHEELING

Particular description of goods.—Gas Heating Stoves and Portable Baking Ovens.
Claims use on ovens since Apr. 1, 1921, and on stoves since Sept. 1, 1921.

166,746. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NORWALK VAULT COMPANY, Norwalk, Ohio. Filed Jan. 22, 1923. Serial No. 174,912.

VAULTKOTE

Particular description of goods.—Cement Paint.
Claims use for more than one year.

166,747. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Jan. 18, 1923. Serial No. 174,748.

SPECKLED TROUT

Particular description of goods.—Fishing Lines.
Claims use since May 1, 1910.

166,748. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Jan. 18, 1923. Serial No. 174,746.

TROUT SPECIAL

Particular description of goods.—Fishing Lines.
Claims use since May 1, 1910.

166,749. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922. Serial No. 173,667.

UNEQUALED

Particular description of goods.—Fishing Lines.
Claims use since the 10th day of May, 1911.

166,750. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SOUTHERN FRUIT JULEP CO., Fort Worth, Tex. Filed Dec. 19, 1922. Serial No. 173,584.

ORANGE-JULEP

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink and Sirups Used for the Making of Same with Plain or Carbonated Water.
Claims use since Nov. 1, 1911.

166,751. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDW. K. TRYON COMPANY, Philadelphia, Pa. Filed Dec. 7, 1922. Serial No. 173,058.

Jay Harvey

Particular description of goods.—Artificial Baits, Bait and Tackle Boxes, Bait and Minnow Pails, Butt Caps for Fishing Poles, Fishing Floats, Fishhooks, Fishing Lines, Fish Nets, Fishing Reels, Fishing Rods, Flies, Fly and Tackle Books, Leaders, Reel Seats, Rod Ferrules, Rod Guides, Rod Tips, Snelled Hooks, and Winding Checks.
Claims use since about Sept. 1, 1921.

166,752. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) E. J. WOODISON CO., Detroit, Mich. Filed Oct. 6, 1922. Serial No. 170,421.

WOODISON
LITEWATE PARTING

Particular description of goods.—A Composition of Matter Used on Patterns to Facilitate the Parting of Same from Molds.
Claims use since Sept. 1, 1920.

166,753. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE N. N. HILL BRASS CO., East Hampton, Conn. Filed July 20, 1922. Serial No. 167,128.

BELLPHONE

Particular description of goods.—Toy Telephones.
Claims use since Jan. 15, 1922.

166,754. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. G. FLECKENSTEIN COMPANY, Muskegon Heights, Mich. Filed July 1, 1922. Serial No. 166,361.

MUSKEGON

Particular description of goods.—Sole-Leather Bends, Backs, Sides, Strips, Blocks, and Leather Cut Therefrom, and Leather from Which Soles and Heels are Cut.
Claims use since 1915.

166,755. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. G. FLECKENSTEIN COMPANY, Muskegon Heights, Mich. Filed July 1, 1922. Serial No. 166,360.

OTTAWA

Particular description of goods.—Sole-Leather Sides, Backs, Bends, Strips, Blocks, and Leather Cut Therefrom, and Leather from Which Soles and Heels are Cut.
Claims use since 1915.

166,756. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ELGIN STOVE & OVEN CO., Elgin, Ill. Filed Apr. 19, 1922. Serial No. 162,541.

Elgin

Particular description of goods.—Portable Bake Ovens, Gas Stoves, Oil Cookstoves, Oil Heating Stoves, Ranges and Cookstoves (Coal or Wood), Heating Stoves (Coal or Wood).
Claims use since 1903.

166,757. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CULM-BURN EQUIPMENT COMPANY, INC., Philadelphia, Pa. Filed Dec. 29, 1921. Serial No. 157,259.

CULM-BURN

Particular description of goods.—Furnace Grates.
Claims use for not less than one year.

166,758. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MINNESOTA RED RIVER VALLEY CO-OPERATIVE CERTIFIED SEED GROWERS ASSOCIATION, Crookston, Minn. Filed Nov. 30, 1921. Serial No. 156,102.

RED
RIVER
VALLEY

Particular description of goods.—Wheat, Alfalfa, and Any Other Seed, and Seed Potatoes.
Claims use since July 7, 1921.

166,759. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE SIMPLEX MANUFACTURING COMPANY, INC., Conneautville, Pa. Filed Dec. 15, 1920. Serial No. 141,138.

Simplex

Particular description of goods.—Truck Bodies.
Claims use since about the month of March, 1918.

166,760. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOEB & SCHOENFELD COMPANY, New York, N. Y. Filed Feb. 16, 1923. Serial No. 176,131.

SCOTIA

Particular description of goods.—Cotton Piece Goods Such as Gingham and Zephyr Fabrics.
Claims use since about September, 1921.

166,761. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922. Serial No. 173,661.

ERIN

The drawing is lined for red.
Particular description of goods.—Fishing Lines.
Claims use since Apr. 1, 1918.

166,762. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922. Serial No. 173,660.

FAULTLESS

The drawing is lined for yellow or gold.
Particular description of goods.—Fishing Lines.
Claims use since June 1, 1912.

166,763. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922. Serial No. 173,658.

SHANNON

The drawing is lined for red.
Particular description of goods.—Fishing Lines.
Claims use since Apr. 1, 1918.

166,764. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STONECUTTER MILLS CO., Spindale, N. C. Filed Feb. 4, 1922. Serial No. 158,899.

CLEGHORN

Particular description of goods.—Ginghams in the Piece.
Claims use since September, 1921.

166,765. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) G. HEILEMAN BREWING CO., La Crosse, Wis. Filed Dec. 3, 1921. Serial No. 156,221.

NEW
STYLE
LAGER

Particular description of goods.—Lager Beer.
Claims use since May, 1917.

166,766. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) G. HEILEMAN BREWING CO., La Crosse, Wis. Filed Dec 3, 1921. Serial No. 156,220.

Old
Style
Lager

Particular description of goods.—Lager Beer.
Claims use since January, 1904.

166,767. (CLASS 27. HOROLOGICAL INSTRUMENTS.) AMERICAN WHOLESALE CORPORATION, (Baltimore Bargain House), Baltimore, Md. Filed Dec. 2, 1922. Serial No. 172,820.

NEW COLUMBIA

Particular description of goods.—Clocks.
Claims use since 1917.

166,768. (CLASS 37. PAPER AND STATIONERY.) GEORGE THOMAS PRITCHARD, Norfolk, Va. Filed Jan. 25, 1922. Serial No. 158,430.

MULTISTAMP

Particular description of goods.—Stencil Hand Stamp.
Claims use since Mar. 1, 1921.

166,769. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARTLEY, FREEMAN & CO., New York, N. Y. Filed Feb. 7, 1923. Serial No. 175,645.

BERMUDA

Particular description of goods.—Cotton Piece Goods.
Claims use since July 1, 1920.

166,770. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO., Watertown, Conn., and New York, N. Y. Filed Nov. 24, 1922. Serial No. 172,473.

KESWICK

Particular description of goods.—Silk, Linen, Cotton, and Fiber Threads of All Kinds.
Claims use since Jan. 1, 1918.

166,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNIE A. PEARSON, doing business as Richardson's Dry Hop Yeast Company, Winchester, Va. Filed Aug. 23, 1922. Serial No. 168,619.

Richardson's
DRY HOP
YEAST

Particular description of goods.—Yeast.
Claims use since October, 1907.

166,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,572.



Particular description of goods.—Candy.
Claims use since September, 1909.

166,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,570.



Particular description of goods.—Candy.
Claims use since June, 1918.

166,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,569.



Particular description of goods.—Candy.
Claims use since January, 1916.

166,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,568.



Particular description of goods.—Candy.
Claims use since October, 1911.

166,776. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,567.



Particular description of goods.—Candy.
Claims use since April, 1919.

166,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,565.



Particular description of goods.—Candy.
Claims use since March, 1915.

166,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE B. MANISCHEWITZ COMPANY, Cincinnati, Ohio. Filed Dec. 27, 1921. Serial No. 157,162.

"די מצה מיט אללע פעלאה"

Particular description of goods.—Matzos.
Claims use since September, 1919.

166,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN DE KAMP'S HOLLAND DUTCH BAKERS, Los Angeles, Calif. Filed Oct. 17, 1921. Serial No. 154,248.

Holland Dutch

Particular description of goods.—Pastries, Cakes, Cookies, Pies, Bread, and Rolls.
Claims use since June 9, 1917.

166,780. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) S. ALLCOCK & CO., LTD., Redditch, England. Filed Sept. 23, 1920. Serial No. 137,508.



"MODEL PERFECT"

Particular description of goods.—Fishhooks.
Claims use for not less than one year.

166,781. (CLASS 37. PAPER AND STATIONERY.) ADOLPH HAUPT, Brooklyn, N. Y. Filed Feb. 14, 1923. Serial No. 176,024.

MANHATTAN
SPECIAL

Particular description of goods.—Composition, Memorandum, and Note Books.
Claims use since 1903.

TRADE-MARK REGISTRATIONS CANCELED.

83,314. WHEAT FLOUR. THE ARKANSAS CITY MILLING COMPANY, Arkansas City, Kans. Registered September 5, 1911. Canceled March 15, 1923.

143,842. DRY, PASTE, AND READY-MIXED PAINTS, HOUSE PAINTS, INTERIOR AND EXTERIOR FINISHES, AUTOMOBILE FINISHES, COLORS AND OILS, STAINS, ENAMELS, AND DRIERS. THE AMERICAN PAINT WORKS, New Orleans, La. Registered June 14, 1921. Canceled March 15, 1923.

145,884. TYPEWRITER RIBBONS. COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y. Registered August 16, 1921. Canceled March 13, 1923.

LABELS

REGISTERED APRIL 10, 1923.

25,804.—*Title:* SHEIK. For Oranges. ANDREWS BROTHERS COMPANY, INC., Pittsburgh, Pa. Published January 10, 1923.

25,805.—*Title:* MECCA. For Oranges. ANDREWS BROTHERS COMPANY, INC., Pittsburgh, Pa. Published January 10, 1923.

25,806.—*Title:* GOLDEN GATE. For Infants' Shoes. LOTTIE E. BERRY, Milwaukee, Wis. Published January 11, 1923.

25,807.—*Title:* THE BISSINGER HAT. For Hats. GEORGE H. BISSINGER, doing business as Bissinger Hat Manufacturing Co., New York N. Y. Published March 1, 1923.

25,808.—*Title:* SWEET BRIAR GRAHAM FLOUR. For Flour. BRIAR MILLS, Keokuk, Iowa. Published January 17, 1923.

25,809.—*Title:* COOPERS SOX. For Socks. COOPER UNDERWEAR COMPANY, Kenosha, Wis. Published February 23, 1923.

25,810.—*Title:* COOPERS SOX. For Socks. COOPER UNDERWEAR COMPANY, Kenosha, Wis. Published January 12, 1923.

25,811.—*Title:* DERRYVALE. For Irish Linen. DERRYVALE LINEN CO., INC., New York, N. Y. Published March 20, 1917.

25,812.—*Title:* MOTORIST. For Cigars. HARRY ERICKSON, Chicago, Ill. Published August 17, 1922.

25,813.—*Title:* LENOX GUARANTEED HOSIERY. For Hosiery and Boxes Containing the Same. FERMUSTEX HOSIERY COMPANY, INC., doing business as Lenox Guaranteed Hosiery Shops, Atlanta, Ga. Published February 1, 1923.

25,814.—*Title:* THE DUBL-WEAR SHIRT. For Men's Shirts with Soft or Unstarched Cuffs. SAMUEL VAUGHAN GARDINER, New York, N. Y. Published February 17, 1923.

25,815.—*Title:* PRE-WAR. For Cans and Boxes Containing Cigars. EUGENE P. GILLESPIE, York, Pa. Published November 20, 1922.

25,816.—*Title:* GLENCO DUSTAWAY. For Mops. GLENCO PRODUCTS COMPANY, Quincy, Ill. Published February 1, 1923.

25,817.—*Title:* SUNGLOSS. For Cans, Bottles, and Boxes Containing Polishes for Automobiles. WILLIAM H. GOULD, doing business as Sungloss Manufacturing Company, Little Rock, Ark. Published October 12, 1922.

25,818.—*Title:* AN ART LIGHT FIXTURE. For Electric-Lighting Fixtures. H. G. HECKER, Sacramento, Calif. Published February 15, 1923.

25,819.—*Title:* CLOVER CLUB. For Cartons and Packages Containing Ice Cream and Ice-Cream Bricks. JULIUS D. HODSKIN, doing business as G. E. Hall Company, Binghamton, N. Y. Published July 10, 1922.

25,820.—*Title:* SUGAR SPREAD. For a Confection for Use as an Icing. KELLOGG-BIRGE COMPANY, doing business as Kellogg-Manufacturing Company, Keokuk, Iowa. PUBLISHED February 15, 1923.

25,821.—*Title:* BRAN FLAKES. For Edible Bran for Human Consumption. KELLOGG COMPANY, Battle Creek, Mich. Published February 1, 1923.

25,822.—*Title:* METRO-DUTCH STYLE CREAMS. For Packages or Boxes Containing Candy. THE METRO CHOCOLATE CO. INC., Brooklyn, N. Y. Published January 2, 1923.

25,823.—*Title:* GARDEN SWEETS ROSE SCENT BAGS. For Boxes of Sachet. M. E. MILLER, doing business as Miller Novelty Co., Chicago, Ill. Published February 12, 1923.

25,824.—*Title:* COLUMBIA IGNITOR DRY CELL. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published March 15, 1923.

25,825.—*Title:* ROSZELL'S MALLO-NUT. For Chocolate Bars. J. D. ROSZELL, Peoria, Ill. Published October 10, 1922.

25,826.—*Title:* WHITE SHELLAC. For Shellac. TWIN CITY SHELLAC CO., New York, N. Y. Published January 2, 1923.

PRINTS

REGISTERED APRIL 10, 1923.

6,638.—*Title:* INSIST ON THIS LABEL! For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published January 24, 1923.

6,639.—*Title:* THE GREATEST BODY BUILDER. For Father John's Medicine. CARLETON & HOVEY COMPANY, Lowell, Mass. Published May 2, 1921.

6,640.—*Title:* SPIRIT OF NO MAN'S LAND. For Fireworks and Firework Displays. WILLIAM J. H. ENGELKE, doing business as Pan-American Fire Works Company, Fort Dodge, Iowa. Published February 10, 1923.

6,641.—*Title:* TWO NEW HAYNES CARS NOW ON DISPLAY FOR FIRST TIME AT YOUR LOCAL HAYNES SHOWROOM. For Automobiles. THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Published February 17, 1923.

6,642.—*Title:* A WOODEN BOX WIRE BOUND READY TO GO. For Canned Fish. HOLMES COMPANY, Robbinston, Me. Published February 5, 1923.

6,643.—*Title:* H C O. For Canned Fish. HOLMES COMPANY, Robbinston, Me. Published February 5, 1923.

6,644.—*Title:* DEMAND THIS BRAND. For Ham and Bacon. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio. Published February 23, 1923.

6,645.—*Title:* THE KEISER TIED TIE. For Neckties. JAMES R. KEISER, INC., New York, N. Y. Published January 26, 1923.

6,646.—*Title:* KNO THE CLUB GARTERS. For Men's Garters. KNOTHE BROTHERS CO. INC., New York, N. Y. Published March 6, 1923.

6,647.—*Title:* THE GREATEST PIANO SALE IN THE HISTORY OF CHICAGO. For Pianos of All Kinds. MOIST PIANO COMPANY, Chicago, Ill. Published October 22, 1922.

6,648.—*Title:* O'NEIL'S "EVERY DROP TESTED" MOTOR OILS. For Motor Oils. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

6,649.—*Title:* BABY NEEDS BLANK'S TALC AND DEPENDS UPON YOU TO GET IT. For Talc. CARL PERCY, INC., New York, N. Y. Published January 25, 1923.

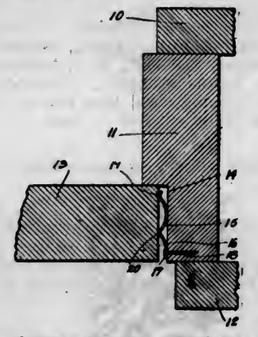
6,650.—*Title:* MOTOR PARTS REPLACEMENT. For Pistons, Parts, and Accessories of Gasoline Engines. PISTON SERVICE CO. INC., Detroit, Mich. Published January 31, 1923.

6,651.—*Title:* PLUMB DOUBLE LIFE SAW FILES. For Files. FAYETTE R. PLUMB, INC., Philadelphia, Pa. Published May 15, 1922.

REISSUES.

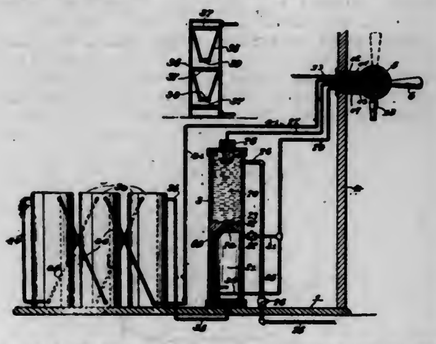
APRIL 10, 1923.

15,574. WEATHER STRIP. JOSEPH C. DUNHAM, Oklahoma, Okla. Filed Jan. 22, 1923. Serial No. 614,320. Original No. 1,416,698, dated May 23, 1922, Serial No. 395,537, filed July 12, 1920. 2 Claims. (Cl. 20—69.)



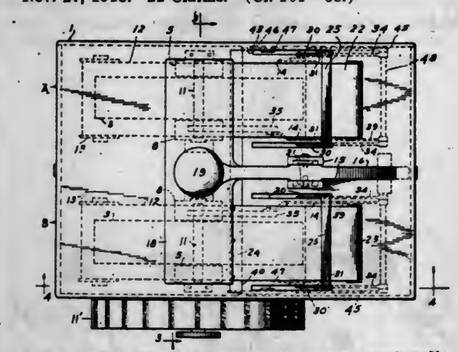
2. In a closure structure comprising a frame and a movable closure member, a resilient weather strip normally disposed between the face of one of the jambs of said frame and the normally adjacent edge face of said member, said strip comprising a plurality of arcs struck from points on the same side of the strip, and terminating in a securing edge for attachment to one of said faces and in a lip at the opposite edge of said strip, the adjacent portions of the respective arcs uniting to form a peak separating said arcs, said strip, when said closure member is in closed relation to the jamb, being cramped between said faces with the peak and lip in weather-excluding engagement with one, and the rear portions of the arcs in engagement with the other of said faces.

15,575. CARBONATOR AND DRAFT ARM FOR SODA WATER. CHARLES A. GEDDES, Philadelphia, Pa., assignor to National Carbonator Manufacturing Company, Incorporated, a Corporation of Delaware. Filed May 24, 1922. Serial No. 563,370. Original No. 1,397,029, dated Nov. 22, 1921, Serial No. 411,516, filed Sept. 20, 1920. 11 Claims. (Cl. 225—21.)



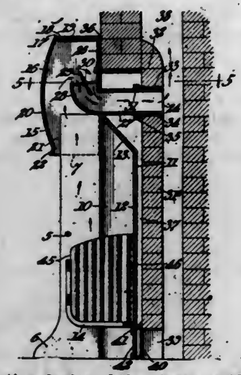
1. In a dispensing apparatus, the combination of one or more secondary absorption chambers, a tubular member divided into upper and lower chambers, the latter of which constitutes a primary absorption chamber, a check valve between said chambers, a gas pipe leading into the upper chamber, a gas supply pipe leading into the lower chamber, a pipe connecting said lower chamber to said secondary absorption chamber or chambers, a water supply pipe leading into said upper chamber, and a valve controlling both the admission of gas to said upper and lower chambers and the discharge of carbonated water from said secondary absorption chamber or chambers.

15,576. TICKET-PRINTING MACHINE. JAMES W. HUBBARD, Eau Claire, Wis., assignor, by mesne assignments, to Continental and Commercial Trust and Savings Bank. Filed Dec. 22, 1921. Serial No. 524,287. Original No. 1,324,673, dated Dec. 9, 1919, Serial No. 264,372, filed Nov. 27, 1918. 22 Claims. (Cl. 101—68.)



1. In a ticket printing machine, duplicate printing dies, platens coacting with said dies respectively, a cross piece carrying said platens, an operating lever connected with said cross piece, means for feeding a ticket strip between one of said dies and platens, means for feeding a record strip between the other die and platen and means for actuating the feeding means by the lever.

15,577. FIREPLACE HEATER. JAMES S. NICHOLS, Atlanta, Ga., assignor to Nic-Heater Corporation, Atlanta, Ga., a Corporation of Georgia. Filed Mar. 1, 1923. Serial No. 622,209. Original No. 1,370,349, dated Mar. 1, 1921, Serial No. 405,042, filed Aug. 21, 1920. 15 Claims. (Cl. 126—120.)

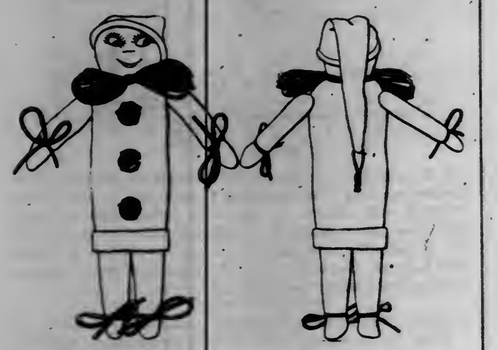


1. In a heating device of the class specified, the combination with an open fireplace having communication with a chimney flue, of a heater inset in the fireplace and consisting of side members and rear extensions and a back wall extending upwardly in connection with the side members and provided with an upwardly and forwardly inclined closed top extending over the extensions of the side members, a grate held fully between the side members and rear extensions, and a radiating drum open at the bottom to fit over the side members and extensions and to overhang the front edges of the side members, the drum being provided with a rearwardly extending flue for communicating with the chimney flue, the said drum being interiorly divided for a portion of its vertical extent by a forwardly projecting portion of the bottom of the flue and provided with a damper for controlling the outlet to the said drum flue.

DESIGNS.

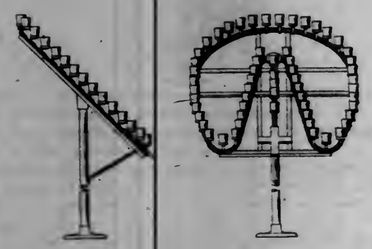
APRIL 10, 1923.

62,189. DOLL. LENORE BOATRIGHT, Sausalito, Calif. Filed Sept. 13, 1922. Serial No. 3,709. Term of patent 14 years.



The ornamental design for a doll, as shown.

62,190. VOTIVE STAND. MARTIN A. FLANNERY, New York, N. Y., assignor to Will & Baumer Candle Co., Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 25, 1922. Serial No. 3,552. Term of patent 14 years.



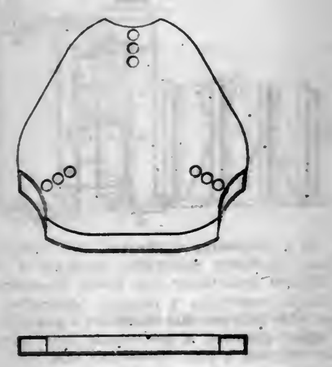
The ornamental design for a votive stand, substantially as shown.

62,191. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,664. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,192. CASING FOR HOLDING COUNTING DISKS. FRED A. HELFRECHT, Berkeley, Calif. Filed Mar. 16, 1921. Serial No. 452,762. Term of patent 3½ years.



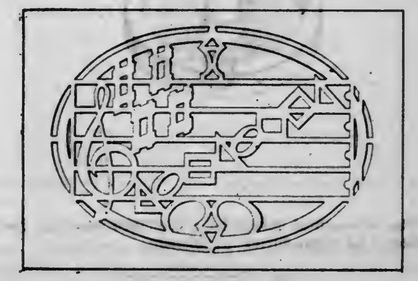
The ornamental design for a casing for holding counting disks, as shown.

62,193. BRUSH HOLDER. WALTER E. KEENE, Baltimore, Md. Filed June 11, 1921. Serial No. 476,942. Term of patent 3½ years.



The ornamental design for a brush holder as shown.

62,194. GRILLE FOR PHONOGRAPH CABINETS. JOHN O. MILLER, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 14, 1922. Serial No. 3,382. Term of patent 14 years.



The ornamental design for a grille for phonograph cabinets as shown.

62,195. WATCHCASE OR SIMILAR ARTICLE OF MANUFACTURE. MORRES SEIGER, New York, N. Y., assignor to Morres Seiger and Simon Seiger, doing business under the firm name of M. Seiger & Son, New York, N. Y. Filed Sept. 9, 1922. Serial No. 3,662. Term of patent 14 years.



The ornamental design for a watch case or similar article of manufacture substantially as shown.

62,196. WATCHCASE OR SIMILAR ARTICLE OF MANUFACTURE. MORRES SEIGER, New York, N. Y., assignor to Morres Seiger and Simon Seiger, doing business under the firm name of M. Seiger & Son, New York, N. Y. Filed Sept. 16, 1922. Serial No. 3,743. Term of patent 14 years.



The ornamental design for a watch case or similar article of manufacture substantially as shown.

62,197. WEDDING RING. CHARLES F. SELBER, Chicago, Ill. Filed July 29, 1922. Serial No. 3,239. Term of patent 3½ years.



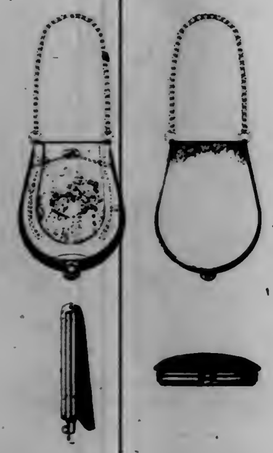
The ornamental design for a wedding ring, as shown.

62,198. PENCIL. CONRAD STEHL, Oakland, Calif. Filed July 24, 1922. Serial No. 3,186. Term of patent 3½ years.



The ornamental design for a pencil, as shown.

62,199. HAND BAG. MAX BRILL, New York, N. Y. Filed Apr. 7, 1922. Serial No. 1,627. Term of patent 3½ years.



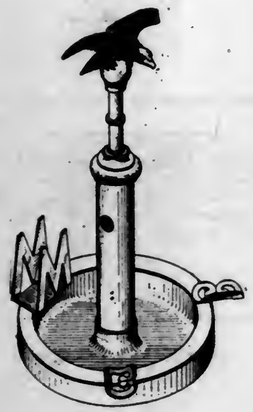
The ornamental design for a handbag as shown.

62,200. VANITY CASE. THEODORE W. FOSTER, Providence, R. I., assignor to Theodore W. Foster & Bro. Co., Providence, R. I., a Corporation of Maine. Filed Oct. 15, 1921. Serial No. 508,025. Term of patent 7 years.



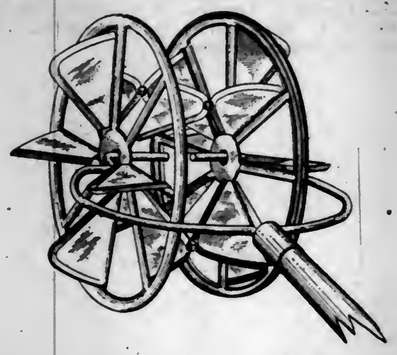
The ornamental design for a vanity case, as shown.

62,201. COMBINED ASH TRAY, MATCH HOLDER, AND CIGAR CUTTER. JOSEPH GOSSNER, New York, N. Y. Filed Aug. 23, 1922. Serial No. 3,534. Term of patent 7 years.



The ornamental design for a combined ash-tray, match-holder and cigar-cutter as shown.

62,202. WHEELED TOY. GEORGE G. GREGER, Detroit, Mich. Filed Nov. 7, 1921. Serial No. 513,610. Term of patent 7 years.



The ornamental design for a wheeled toy, as shown.

62,203. STATUETTE LAMP STAND. AUGUSTUS T. GUILBERT, Pasadena, Calif. Filed Nov. 26, 1921. Serial No. 518,105. Term of patent 3½ years.



The ornamental design for a statuette lamp stand as shown.

62,204. ELECTRIC FIXTURE. MAX L. HAAS, Cleveland, Ohio, assignor to The Haas Electric Sales Company, Cleveland, Ohio. Filed Feb. 3, 1922. Serial No. 525. Term of patent 3½ years.



The ornamental design for an electric fixture, as shown.

62,205. BURGLAR-ALARM HOUSING. EARLE M. JONES, Minneapolis, Minn., assignor to O. B. McClintock Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Feb. 2, 1922. Serial No. 498. Term of patent 14 years.



The ornamental design for a burglar alarm housing, as shown.

62,206. FORK OR SIMILAR ARTICLE. JOHN LEECH, Bridgeport, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Aug. 21, 1922. Serial No. 3,486. Term of patent 7 years.



The ornamental design for a fork or similar article substantially as shown.

62,207. BOWL FOR LIGHTING FIXTURES. LOUIS B. LONDON, New York, N. Y. Filed Dec. 27, 1921. Serial No. 525,249. Term of patent 7 years.



The ornamental design for a bowl for lighting fixtures, as shown.

62,208. PLATE OR SIMILAR ARTICLE. CHARLES A. MAY, Trenton, N. J., assignor to Maddock Pottery Company, Trenton, N. J. Filed Apr. 22, 1922. Serial No. 1,913. Term of patent 14 years.



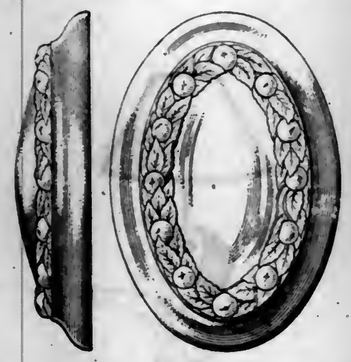
The ornamental design for a plate or similar article, as shown.

62,209. TRAFFIC SIGNAL. STEVE MILLER, San Antonio, Tex. Filed July 1, 1922. Serial No. 2,910. Term of patent 14 years.



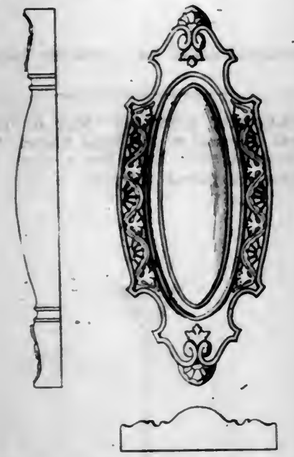
The ornamental design for a traffic signal, as shown.

62,210. BRACKET BACK FOR LIGHTING FIXTURES. PAUL MOHRMANN, Chicago, Ill., assignor to Friedley Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1922. Serial No. 1,251. Term of patent 7 years.



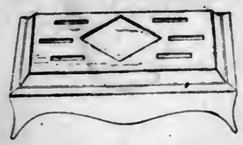
The ornamental design for a bracket back for lighting fixtures, as shown.

62,211. PLATE FOR LIGHTING FIXTURES. KARL NACKE, Brooklyn, N. Y., assignor to United Metal Spinning Co., Brooklyn, N. Y., a Corporation of New York. Filed May 19, 1922. Serial No. 2,317. Term of patent 3½ years.



The ornamental design for a plate for lighting fixtures, as shown.

62,212. DISPLAY TRAY. MAURICE J. SCHLESS, New York, N. Y. Filed May 31, 1922. Serial No. 2,474. Term of patent 7 years.

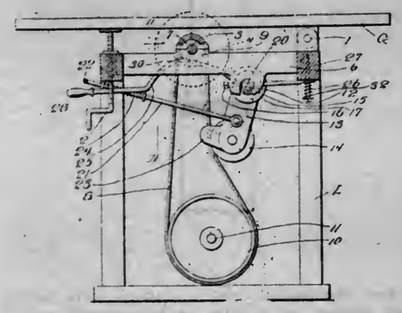


The ornamental design for a display tray, as shown.

PATENTS

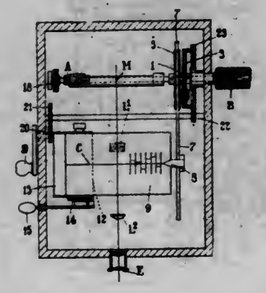
GRANTED APRIL 10, 1923.

1,450,906. POWER CONTROL FOR SAW TABLES AND THE LIKE. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed July 28, 1919. Serial No. 313,888. 5 Claims. (Cl. 192—11.)



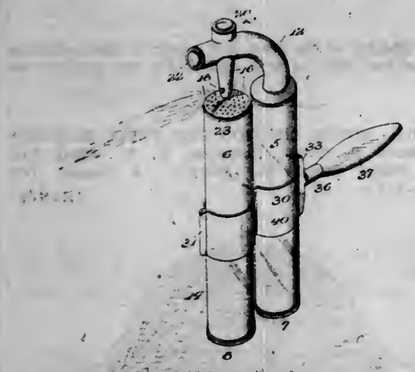
3. The combination with a drive pulley, a driven pulley and connections between said two pulleys, of a single control lever, means whereby said control lever is pivotally supported to swing in two planes, and means whereby swinging of said lever in one of said planes will render said connections inoperative while swinging of said lever in said other plane will brake rotation of the driven pulley.

1,450,907. APPARATUS FOR TESTING AND RECORDING THE EFFICIENCY OF RANGE-FINDER OPERATORS. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Filed Aug. 26, 1921. Serial No. 495,550. 4 Claims. (Cl. 234—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



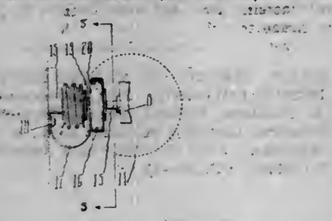
1. An instrument comprising marks, one a movable mark, movable from a fiducial position, optical means for viewing the marks and for producing a reduced image of the marks, means for moving the movable mark, and means for recording on an enlarged scale the position of the movable mark relative to the fiducial position, for the purposes set forth.

1,450,908. TORCH. THOMAS H. BELL and JOHN G. SCHOENLEBER, New York, N. Y. Filed Apr. 5, 1922. Serial No. 549,936. 5 Claims. (Cl. 158—35.)



1. A device of the character described comprising a pair of tubular containers, an elbow connected to the upper end of one of the containers and having a depending branch arranged in longitudinal alignment with the other tubular container and formed with a discharge orifice, and a heating element arranged in the tubular container directly beneath said depending branch for highly heating the fuel within the same.

1,450,909. TEMPERATURE COMPENSATING MEANS FOR SPEEDOMETERS. JOSEPH BEECH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Mar. 31, 1920. Serial No. 370,164. 8 Claims. (Cl. 264—4.)

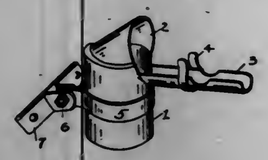


1. A speedometer comprising two members, one a magnet and the other a magnetic mass, one of said members being arranged for rotation, a non-magnetic drag element in the field of said magnet, a driving member for driving the rotatable member, and temperature controlled means for varying the speed ratio between the driven and driving members for compensating for changes in magnetic permeability of said magnetic mass due to variations in temperature.

1,450,910. CIGAR HOLDER AND ASH RECEPTACLE. MICHAEL H. BIALICK, Saginaw, Mich. Filed Oct. 3, 1921. Serial No. 504,899. 3 Claims. (Cl. 131—51.)

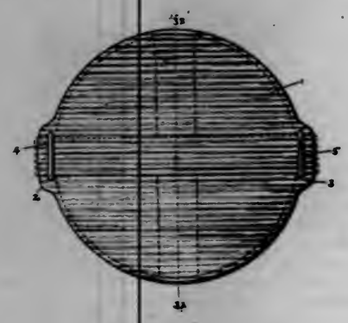
3. In combination, a tiltable bracket having a loop, an ash receptacle removably and rotatably secured in

said loop, a wind-deflecting hood on said receptacle, said hood having an opening at one side of said receptacle, a horizontally disposed trough secured to the receptacle



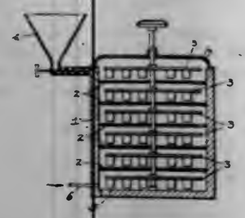
at the opening of the hood, and a pair of cigar-retaining clips on the sides of said trough, for the purposes set forth.

1,450,911. COVER CUSHION FOR FRUIT BASKETS. RAYMOND P. CLARK, Rochester, N. Y. Filed Aug. 28, 1922. Serial No. 584,735. 4 Claims. (Cl. 217—122.)



1. A cover cushion for fruit baskets, comprising a pad, horizontal extensions formed at two diametrically opposite points on the periphery of said pad to form a pair of handles for said pad, said handles having slots provided therein into which the handles of a fruit basket can engage to hold the cover cushion in place on top of the basket.

1,450,912. METHOD OF MAKING ANHYDROUS MAGNESIUM CHLORIDE. PAUL COTTRINGER and WILLIAM R. COLLINGS, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 31, 1920. Serial No. 400,444. 9 Claims. (Cl. 23—13.)



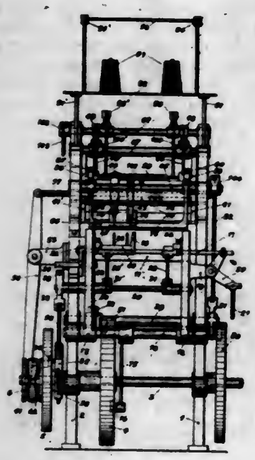
1. The method of making anhydrous magnesium chloride which consists in causing a reaction between magnesium oxide and hydrochloric acid gas, substantially as described.

1,450,913. HOSIERY FORM. THOMAS H. DE LACY, Trenton, N. J. Filed Nov. 5, 1921. Serial No. 513,157. 4 Claims. (Cl. 223—17.)



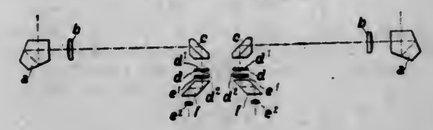
1. The combination with a hosiery form having a smooth surface, of a strip of foraminated metal attached to the face of the hosiery form, the strip being roughened upon its outer surface.

1,450,914. BOOK-SEWING MACHINE. LOUIS EGGER, Sumiswald-Grunen, Berne, Switzerland. Filed Dec. 21, 1921. Serial No. 523,989. 5 Claims. (Cl. 112—21.)



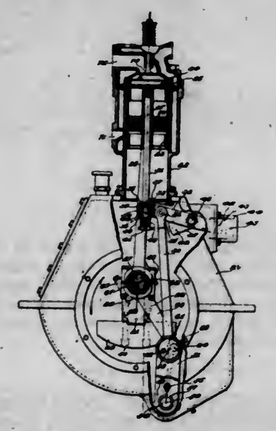
1. In a book sewing machine, a work table, means rockingly supporting the same, a perforator, means for latching the table in an operative position for perforating operation, and means operable by and during actuation of the perforator for rendering said second means operative.

1,450,915. STEREOSCOPIC TELEMETER. OTTO EPPENSTEIN, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,102. 1 Claim. (Cl. 88—2.6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a stereoscopic telemeter containing two objectives, stereoscopic measuring marks arranged in the focal planes of the said objectives and two oculars for observing both the object, the distance of which is to be measured, and the measuring marks, and two other marks disposed each behind the focal plane of the appertaining objective for producing a subsidiary stereoscopic mark.

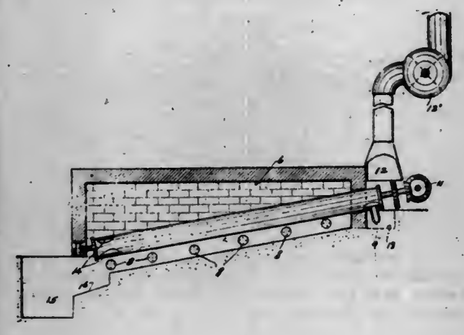
1,450,916. INTERNAL-COMBUSTION ENGINE. WILLIAM A. GILB, Stoneham, Mass., assignor to Gilb Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 26, 1922. Serial No. 584,455. 10 Claims. (Cl. 123—66.)



1. An internal combustion engine comprising a cylinder, a power piston and an imperforate sub-piston both arranged to reciprocate within said cylinder, said sub-piston being located between the combustion chamber and said power piston, a rod for said sub-piston, a main shaft provided with a crank, means for controlling said sub-piston positively throughout the entire cycle, said means comprising a link, a slidable, spring-pressed, pivotal connection between said rod and said link, a member connecting said means directly to said crank, and means pivotally connecting said power piston to said crank.

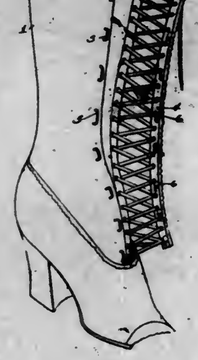
1,450,917. DRIER. EDWIN T. GOLDTHORPE, Chicago, Ill., assignor to Elastic Paint Co., Chicago, Ill. Filed Sept. 23, 1920. Serial No. 412,321. 6 Claims. (Cl. 34—6.)

5. A drier comprising a heating chamber; a rotatable tubular container mounted therein at an inclination to the horizontal; a scoop carried by the upper end of said container, there being an opening in said container at the base of said scoop adapted to discharge material from said scoop into said container; means for supplying material to said scoop, there being a discharge opening in



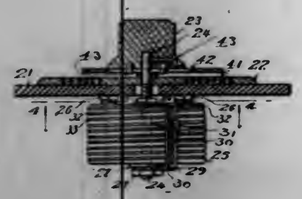
the lower end of said container; means for rotating said container; and an exhaust hood located over the upper end of said container, substantially as described.

1,450,918. SHOE LACING. OSCAR GRAFF, Philadelphia, Pa. Filed July 13, 1921. Serial No. 484,329. 1 Claim. (Cl. 24—140.)



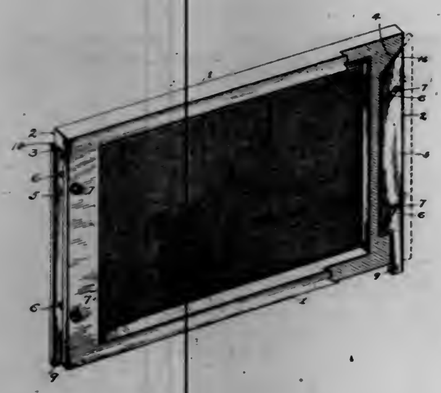
In combination with a high laced boot or shoe provided with an open front gap, each marginal edge of the gap being straight and extending throughout the length of the shoe, a strip removably fixed to one marginal edge of the gap and provided with eyelets, a detachable strip provided with hooks, loops mounted on the marginal edge of the other side of the gap and adapted to be engaged by the hooks on the detachable strip, the latter being provided with eyelets, and a shoe string adapted to be inserted in the eyelets for drawing the two strips together when the hooks are engaged with the loops.

1,450,919. RHEOSTAT. PAUL HARRIS, New York, N. Y. Filed July 15, 1922. Serial No. 575,154. 5 Claims. (Cl. 219—52.)



1. A rheostat provided with a spool with a double thread thereon, two wires, one in each thread and means for connecting said two wires at any desired points, whereby more or less resistance may be cut in or out.

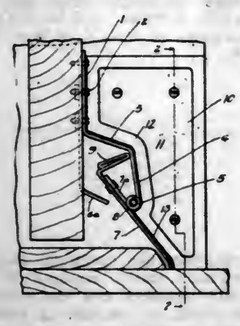
1,450,920. WINDOW SCREEN. WILLIAM M. HUTCHINSON, New Kensington, Pa. Filed Mar. 5, 1921. Serial No. 449,617. 1 Claim. (Cl. 156—38.)



In a window screen comprising a top, bottom and end rails, the one securely attached to the other to form a rectangular frame, grooves formed along the length of said end rails, said grooves being of greater depth along their middle portion than at either end, slidable members operating in said grooves adapted to move vertically and horizontally, a means comprising angularly-arranged slots formed in each of said members, and fixed pins projecting through said slots for attaching said members in position and to permit free movement of the same in the direction of the length of the slot.

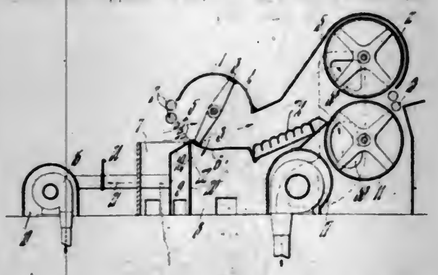
1,450,921. WEATHER STRIP. WILLIAM C. JARMER, Chicago, Ill. Filed Apr. 30, 1921. Serial No. 465,647. 1 Claim. (Cl. 20—69.)

The combination with a weather strip comprising a supporting member having closure engaging means, and a main portion bent intermediate its width; an over-balanced plate pivotally supported by the free edge portion of said main portion and provided with an upstanding weighted portion adapted to swing against said supporting member at the angle of said bend; of a stop plate having a recess therein conforming to said supporting member, and means for guiding said over-balanced plate to



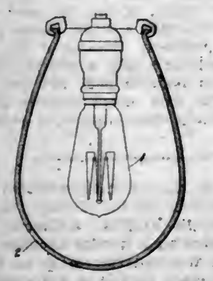
operative position, said stop plate acting to reinforce the end of said supporting member when said over-balanced plate swings into operative position.

1,450,922. PICKER OR FIBER-CLEANING MACHINE. JOHN E. O'CONNELL, Springfield, Mass. Filed Apr. 29, 1921. Serial No. 465,363. 14 Claims. (Cl. 19—89.)



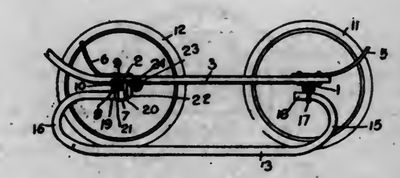
10. A cotton cleaning machine including in combination a beater casing and a condenser casing connected together, said beater casing having a grid-bar section, and separate and independently controllable means to take air out of each casing, said grid-bar section affording an air inlet for both casings.

1,450,923. LIGHTING FIXTURE AND PROCESS FOR PRODUCING SAME. EBEN F. OLIVER, Jersey City, N. J., assignor, by direct and mesne assignments, to Korrectolite Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1920. Serial No. 361,882. 5 Claims. (Cl. 240—1.)



5. A lighting fixture comprising: an open mouth reflector, an incandescent lamp having a translucent bulb within said reflector, and a light corrective medium, closing the mouth of said reflector, consisting of a glass member having irregular interstices throughout its surface, said interstices being filled with a coloring agent of such value as to uniformly color the medium to thereby correct the light of the incandescent lamp to approximate daylight value.

1,450,924. RUNNER ATTACHMENT FOR WHEELED CARRIAGES. CRAVEN ROBERT OAD, Guelph, Ontario, Canada. Filed Oct. 22, 1921. Serial No. 509,653. 3 Claims. (Cl. 280—11.)



1. In a runner attachment for wheeled carriages, the combination with the frame structure and front and rear wheels, of runner members swung upon the frame structure, a crank arm carried by an end of each of the runner members, a tension spring extending between the crank arms, the cranks and spring being so disposed as to force the runner members outward against the aforesaid wheels when the runner members are spread apart and to draw such runner members inward when the runner members are manually forced inward and upward towards the carriage frame.

1,450,925. BRAKE-BAND LINING. ARTHUR L. RENNIE, Jamaica, N. Y. Filed Mar. 7, 1922. Serial No. 541,647. 8 Claims. (Cl. 188—249.)



4. The combination with a brake band provided at its free end with brackets, of a lining strip for said band, said lining strip being provided at predetermined points with guide clips adapted to engage the side edges of said brake band for holding said lining strip against lateral movement thereon, an attaching plate at one end of said lining strip, said attaching plate being adapted to be secured to one of said brackets, and a reinforcing strip mounted upon and secured to the outer face of said lining strip and extending longitudinally thereof, said strip being independent of said clips and being of considerably less transverse dimensions than said lining strip.

1,450,926. COMPOSITION OF MATTER FOR SILVER-PLATING METALS. LINDOLPH MINOR SHEROW, Ossining, N. Y. Filed June 6, 1922. Serial No. 566,411. 11 Claims. (Cl. 134—24.5.)

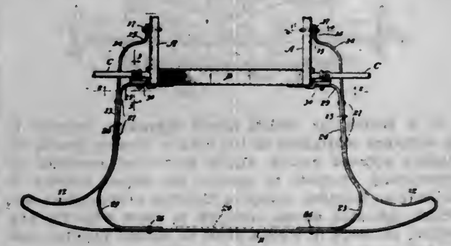
1. A composition of the class described containing silver nitrate, camphor, a cyanide solution and whiting.

1,450,927. ANTIRATTLING DEVICE. CHARLES J. SOSS, New York, N. Y., assignor of one-third to Henry Soss and one-third to Samuel Soss, both of New York, N. Y. Filed July 11, 1921. Serial No. 483,671. 5 Claims. (Cl. 292—155.)



1. A device of the class described comprising a suitably supported member, an anti-rattling element adjustably mounted in connection with said member, means whereby said member may be moved into different positions to move said rattling element into operative and inoperative position, and tensional means cooperating with said member for holding the same in different positions of adjustment.

1,450,928. AUTOMOBILE BUMPER. LEWIS F. STAFFORD, Chicago, Ill., assignor to Stafford Spring Guard Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1922. Serial No. 534,581. 8 Claims. (Cl. 293—55.)

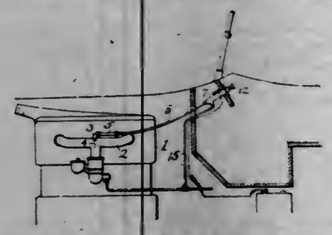


6. A bumper comprising an impact member extending across the end of a vehicle, arms at the ends of said impact member and extending therefrom toward the vehicle, and supplementary supporting arms extending from said impact member toward the vehicle, the intermediate portions of said supplementary arms being disposed alongside said bumper arms and provided with spring bends at their outer and inner end portions whereby yielding areas are provided therein between the bumper arms and the impact member and between the bumper arms and the points of attachment of the supplementary supporting arms.

1,450,929. ENGINE-PRIMING DEVICE. FREDERICK D. SWEET, Cleveland, Ohio, assignor to Instant Hot Primer Company, a Partnership comprising Frederick D. Sweet and Henry Grombacher, Cleveland, Ohio. Filed Mar. 9, 1918. Serial No. 221,393. 1 Claim. (Cl. 123—180.)

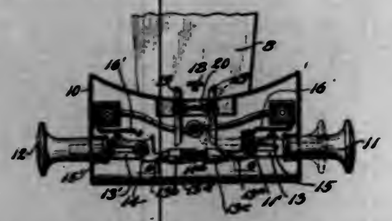
The combination with an internal combustion engine, of a receptacle adapted to contain fluid fuel, a movable member controlling the passage of fuel from said receptacle, means for returning the movable member to its initial position after being moved, a conduit connecting

the receptacle with the engine, a portion of said conduit being composed of electrically non-conducting material, a heating element within the said non-conducting portion of a conduit, the ends of said heating element being connected with the conduit upon either side of the non-conducting portion, a switch controlling the passage of current through the conduit, and the heating element, said



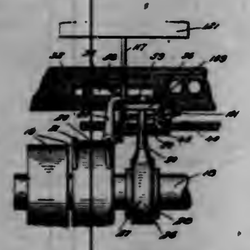
switch being spring pressed and having a portion which engages with the aforesaid movable member whereby the switch is held in non-operative position under normal conditions, the movement of the movable member permitting the switch to move to operative position to close the circuit through the heating element, the movement of the movable member to its initial position moving the switch to inoperative position.

1,450,930. DIRECTION SIGNAL FOR VEHICLES. JOHN E. WALTER, Waukegan, Ill. Filed Apr. 29, 1922. Serial No. 557,300. 6 Claims. (Cl. 200—59.)



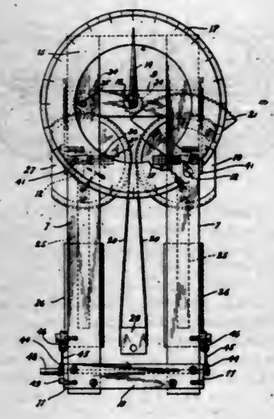
1. A switch for vehicle signal apparatus adapted to be arranged contiguous to the vehicle steering means, including opposed axially alined presenting members independently operable to operate the signal member to indicate an intended change of direction of movement, and vehicle operated means arranged to coact with the presetting members to restore them to normal position incident to turning movement, one of said members being movable to actuate the other to effect normalization of the set member in the event the contemplated movement is not executed.

1,450,931. STOP MOTION. VINCENT WANTE, Woonsocket, R. I. Filed July 18, 1922. Serial No. 575,786. 5 Claims. (Cl. 19—165.)



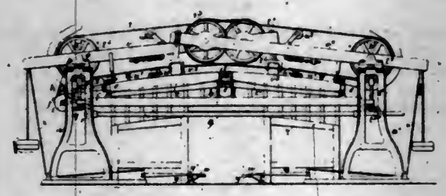
1. In a gill box, the combination with the main shaft and shifter fork, of a reciprocatory finger carried by the shaft, a resilient shifting arm seated adjacent the finger adapted when unseated to swing against the fork, and a laterally yielding spacer movable into and out of the path of the finger adjacent the lever, and means controlled by a sliver for actuating the spacer to receive the impact of the finger and unseat the lever.

1,450,932. AUTOMATIC WEIGHING MECHANISM. JOHN W. WESLEY, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 543,858. 6 Claims. (Cl. 265—62.)



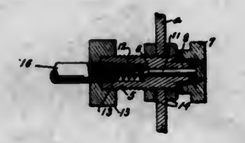
1. A mechanism of the class described including in combination with a supporting frame, a pivot bar horizontally and fixedly mounted thereon, a disk-like weighted governor mounted on said bar for oscillatory movement, and a peripherally channeled roller journaled on said frame and located in close proximity to but out of contact with the periphery and faces of said governor.

1,450,933. LEATHER-FINISHING MACHINE. GEOFFREY LOVELL WILKS, Surbiton, London, England. Filed Mar. 1, 1922. Serial No. 540,199. 15 Claims. (Cl. 149—19.)



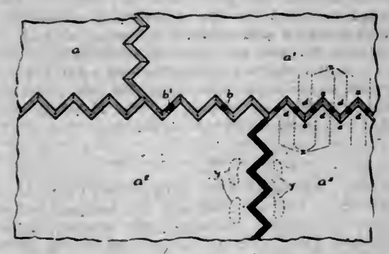
8. In a leather finishing machine, the combination with a bed curved convexly, longitudinally and transversely, of a pair of pivoted frames supported adjacent to the lateral portions of the bed and extending inwardly past the central portion thereof, supporting pulleys carried by said frames at their inner and outer ends, endless bands engaging said pulleys and provided with leather finishing devices, said bands being located in different transverse planes and having their inner portions extending side by side adjacent to the central portion of the bed, and means for driving said bands in a direction to cause the portions thereof adjacent to the bed to be moved outwardly toward the lateral edges of the bed.

1,450,934. AIR CONFINING AND RELEASING VALVE. JESSE E. WILSON, Oxford Junction, Iowa. Filed Sept. 26, 1921. Serial No. 503,210. 1 Claim. (Cl. 158—50.1.)



A valve for fuel supply systems of motor vehicles comprising a body portion provided with a reduced threaded end adapted to be engaged by an air hose coupling, and with a bore, a counterbore, and a valve seat at the junction of said bore and counterbore; a valve adapted to engage said seat, provided with a stem passing through said bore; a spring seat within said counterbore; a spring interposed between said spring seat and said valve, normally tending to seat said valve; and a perforated cap normally threaded on said reduced end, and adapted to engage the end of said valve stem to unseat said valve against the action of said spring.

1,450,935. PERMANENT JOINT IN FABRICATED FORM AND METHOD OF MAKING THE SAME. JAMES L. ANDERSON, Bayonne, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1918. Serial No. 266,407. 13 Claims. (Cl. 113—112.)

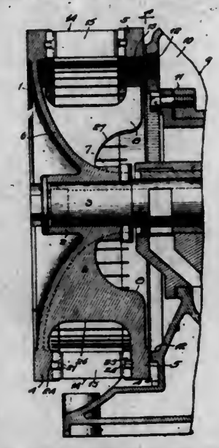


1. The method of obtaining permanent butt joints in fabricated forms, which comprises providing the parts to be united with interfitting indented edges consisting of tapering, substantially triangular projections and alternating recesses, and uniting said edges by fusion, whereby a saw-toothed welded joint is obtained consisting of multiple diagonals running in alternately angularly related directions across the neutral or center line of the seam.

13. A fabricated structure comprising plates having saw-toothed edges interfitted and fused together, presenting a welded seam substantially all portions of which are diagonal to the general direction of the seam.

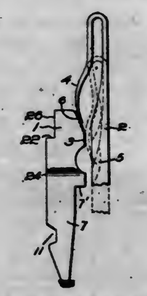
1,450,936. COMBINED FLYWHEEL AND SUCTION FAN. ROBERT W. BARTON, Chicago, Ill. Filed Mar. 30, 1922. Serial No. 548,265. 4 Claims. (Cl. 230—11.)

1. In a device of the kind described, two opposed peripheral rings of equal diameter and separated axially, expelling blades made of thin sheet metal and longer than the space between the rings, the rings having registering narrow transverse grooves for receiving the ends of the blades, the opposed faces of the rings provided with circumferential grooves, the middle portions of the blades dished radially for stiffening the blades, and the ends of the blades pre-formed with bendable projections adapted



to be formed into said grooves after the blades have been arranged in position, to engage the sides of the grooves, as and for the purpose specified.

1,450,937. SPRING NEEDLE PRESSER. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed May 26, 1919. Serial No. 299,972. 12 Claims. (Cl. 66—21.)



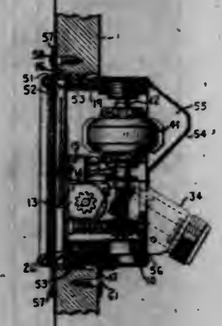
1. As an article of manufacture, a needle beard presser having a ground, beard-depressing surface, the grinding lines whereof extend transversely to the direction of movement of the needle beard during the depressing operations.

1,450,938. SNAP FASTENER. JULIUS J. BRELL, New York, N. Y. Filed Apr. 11, 1919. Serial No. 289,248. 1 Claim. (Cl. 24—218.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



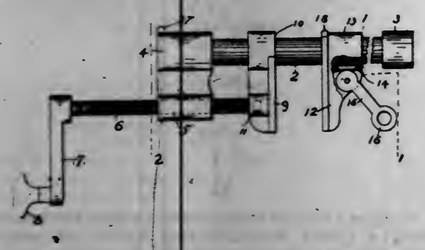
A snap fastener element having a continuous rolled edge and sewing apertures, said edge being non-circular and nearer the center of the fastener element at those parts thereof which are located between the sewing apertures, the configuration and location of the said rolled edge being such that it is closely adjacent to both the outer and lateral edges of the sewing apertures.

1,450,930. SPEEDOMETER. CLARENCE CARSON, New Rochelle, N. Y., assignor to Johns-Manville, Incorporated, a Corporation of New York. Filed Aug. 25, 1920. Serial No. 405,999. 5 Claims. (Cl. 235—96.)



1. A device of the class described for mounting an indicating mechanism including a front mounting ring provided with means for securing the same to the mechanism and including an outstanding flange for engaging the front side of the support for the device and a rear cover provided with separate means for securing the same to the mechanism and also provided with an outstanding flange for engaging the rear side of the support whereby the support is disposed between two flanges projecting independently of each other from the mechanism.

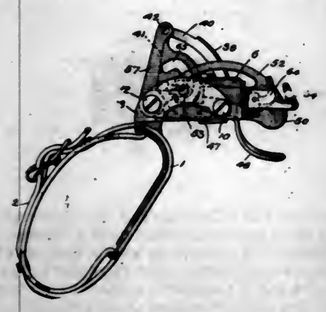
1,450,940. DOOR CLAMP. ISAAC W. COBB, Portland, Me. Filed Feb. 12, 1921. Serial No. 444,373. 2 Claims. (Cl. 144—303.)



1. In a door clamp, the combination of a cylindrical rod, a nut secured to the end of the rod and offset from the center thereof, a sliding jaw adjacent to said nut, a screw engaging said nut and acting to move said sliding jaw on the rod, a free jaw on said rod opposed to said sliding jaw, a cam on said free jaw, a toothed clamping block between the rod and the free jaw positioned to be forced against said rod by said cam to hold the jaw in any radial position with respect to the fixed jaw.

1,450,941. KNOTTER. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Mar. 9, 1916, Serial No. 83,008. Renewed June 14, 1920. Serial No. 389,004. 19 Claims. (Cl. 289—5.)

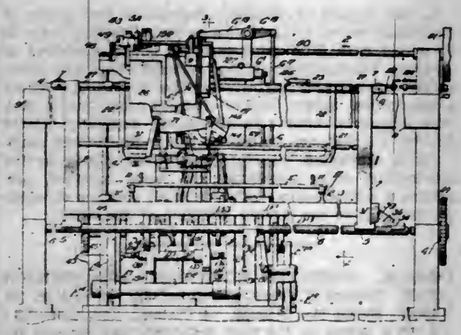
1. A knotter having, in combination, a rotary tying bill, a pivoted arm having a hook, a gear-part rigid with the arm, a coacting driving gear-part, a slide on said arm adapted to coact with the hook to clamp the threads, a plate having a cam slot, said driving gear-part and plate being rigidly secured together, a stud on the slide lying in said slot, and means for oscillating said driving gear-part and cam plate and for rotating the tying bill.



5. A knotter having, in combination, a frame, a pivot in said frame, a tying bill rotatably mounted in the frame, a hooked arm pivoted in the frame, a slide supported on the said arm for movement longitudinally of the arm to clamp and release threads lying in the hook of said arm, a gear segment mounted to swing on said pivot, a gear segment on said arm meshing with the first mentioned gear segment, a digitally-actuated arm also mounted to swing on said pivot and fixed to the first mentioned gear segment, connections between said last mentioned arm and the tying bill for rotating the latter, and connections between the digitally-actuated arm and said slide for reciprocating the latter.

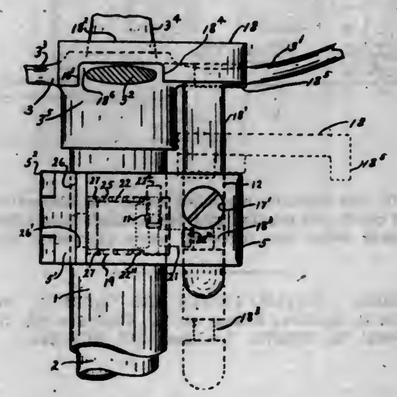
9. A knotter having, in combination, a frame, a pivot in said frame, a tying bill rotatably mounted in the frame, a hooked arm pivoted in the frame, a member arranged to clamp threads in the hook of said arm, a digitally-actuated arm mounted to swing on said pivot, connections between said arms for swinging the hooked arms, a plate mounted to swing on said pivot and rigidly connected to the digitally-actuated arm, said plate having a cam formation, and a part on said clamping member arranged to engage said cam formation.

1,450,942. MACHINE FOR OPERATING UPON WARPS. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 18, 1919. Serial No. 291,061. 11 Claims. (Cl. 28—44.)



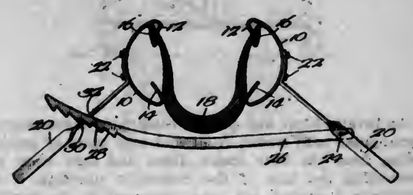
1. A warp-drawing machine having, in combination, an operating mechanism, means for supporting the warp, means for supporting the harnesses, means for supporting the reed, means for causing relative traversing movement between the operating mechanism on the one hand and the several supporting means on the other, said movement being approximately proportionate to the sley of the harnesses, and means for adjusting the position of a portion of the operating mechanism with reference to the remainder of said operating mechanism to compensate for the difference in the width of the warp and the harnesses.

1,450,943. AUTOMOBILE LOCK. GEORGE WILLIAM DANIELS, Hamilton, Ontario, Canada. Filed July 15, 1921. Serial No. 484,990. 7 Claims. (Cl. 70—129.)



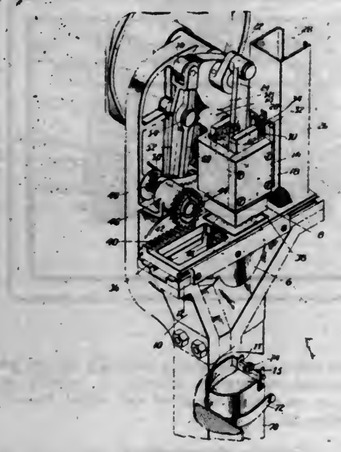
1. In a device of the class described, a clamping member comprising a flat head portion of substantially the shape of a right angle triangle, a shank portion depending from the head portion and situated adjacent to the right angle, the shank provided with an annular recess adjacent to the lower end thereof, an enlarged boss carried by the upper end of the shank at its junction with the head, depending lugs carried by the head at the acute angular points thereof, the aforesaid boss and the depending lugs forming between them recesses in the under face of the head.

1,450,944. TIRE SPREADER. WILLIAM B. ECKER, Chicago, Ill., assignor of one-fourth to Dwight B. Cheever, Chicago, Ill. Filed Aug. 2, 1917. Serial No. 184,020. 6 Claims. (Cl. 152—27.)



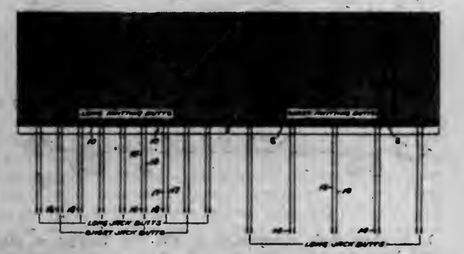
6. In combination with a pneumatic tire to be spread open, a pair of engaging members each equipped with a hook for the lip of the tire, a fulcrum portion adapted to bear against the outside of the tire at a point remote from the edge of the lip, an arm on each engaging member extending away from the tire, and a rigid connecting member extending across the tread of the tire, detachably connected to said arms, the angularity of the arms to the engaging members being such that a substantially straight connecting member can be used without deflecting the lips of the tire below the tread of the tire.

1,450,945. MACHINE AND METHOD APPLICABLE IN THE CUTTING OF SHEET MATERIAL. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 31, 1919, Serial No. 274,210. Renewed Nov. 12, 1920. Serial No. 423,750. 24 Claims. (Cl. 164—10.6.)



1. In a cutting machine, means for cutting blanks from sheet material, and means for insuring the removal of scrap material surrounding the cutting means simultaneously with the cutting of each blank.

1,450,946. OPEN OR LACE WORK KNITTING MACHINE. AUGUSTIN GAGNÉ, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed May 6, 1919. Serial No. 295,120. 24 Claims. (Cl. 66—21.)

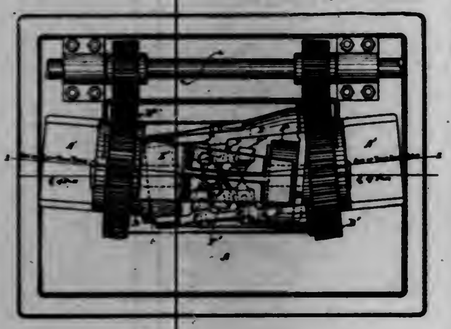


1. Knitting mechanism adapted to produce so-called open or lace-work effects comprising in combination, a needle carrier, needles provided with contrasting length formations, knitting cams, means to impart relative movement to said parts, a tuck stitch elevating cam adapted to move needles out of action of the knitting cams, means to place said tuck stitch cam in a plurality of radial positions for action or non-action upon certain of said formations, and a second tuck stitch elevating cam active upon certain needles only.

1,450,947. FORGING PRESS. DAVID R. GILL, Erie, Pa., assignor of one-half to Harold M. Sturgeon, Erie, Pa. Filed Nov. 28, 1921. Serial No. 518,291. 13 Claims. (Cl. 80—13.)

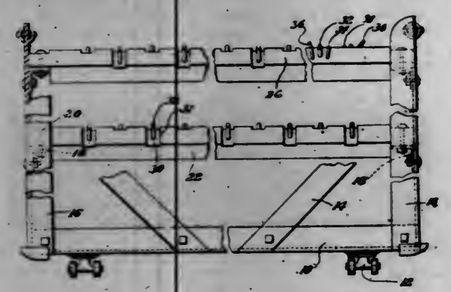
1. In a machine of the class described, a plurality of forging dies each having forging surfaces encircling

the axis of the pass, one end of said forging surface being out of the plane of the other end thereof and the radius thereof progressively decreasing from the entrance end of the exit end thereof, said dies being inter-



jacent of each other and forming a conically shaped pass therethrough, and mechanism adapted to support said dies and rotate each die around an axis offset from the axis of the other die.

1,450,948. SHOE RACK. HARVEY L. GLIDDEN, Needham Heights, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 18, 1921. Serial No. 478,569. 6 Claims. (Cl. 211—34.)

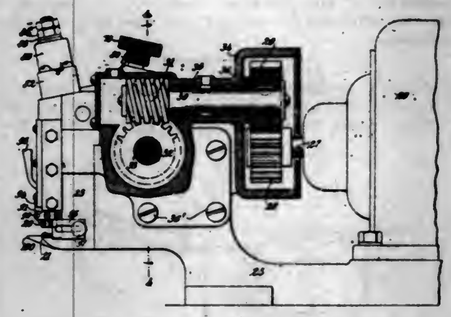


1. A shoe rack comprising a pin bar having a pin adapted to enter the jack pin hole of a last to support it, the bar being also equipped with a member arranged to contact with the cone of the last to prevent rotation on the pin.

2. A shoe rack comprising a pin bar having a pin adapted to enter the jack pin hole of a last to support it, the bar being also equipped with an outwardly projecting shoulder arranged to prevent rotation of the last on the pin.

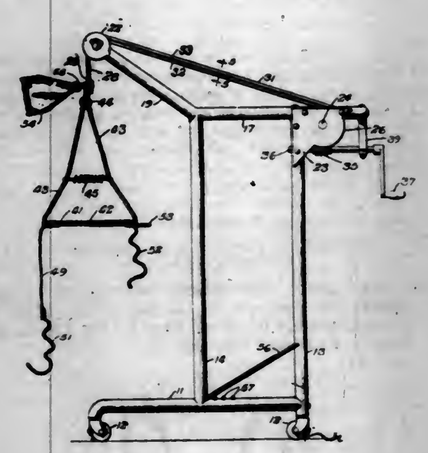
1,450,949. IMPRINTING MACHINE. LEONARD HOPKINS, Pittsfield, Mass., assignor, by mesne assignments, to Eaton, Crane & Pike Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Sept. 23, 1921. Serial No. 502,650. 15 Claims. (Cl. 101—3.)

4. A compact, self-contained, portable, imprinting machine comprising a reciprocating die carrier, a drive shaft, an operating connection between said shaft and said carrier, a motor, a worm having a driving connection from said motor, a worm wheel journaled on said driving shaft, a clutch connecting said worm wheel with said



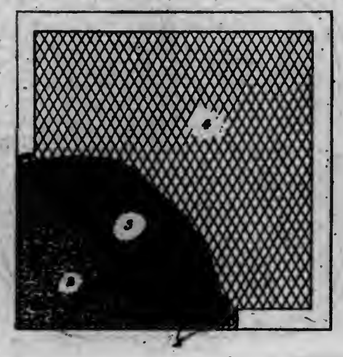
shaft, and manually controlled means for disconnecting said clutch and rotating said driving shaft independently of said motor and connected worm and worm wheel.

1,450,950. INVALID LIFTER AND CARRIER. STANLEY S. JENKINS, Buffalo, N. Y. Filed Apr. 21, 1922. Serial No. 555,897. 1 Claim. (Cl. 212—142.)



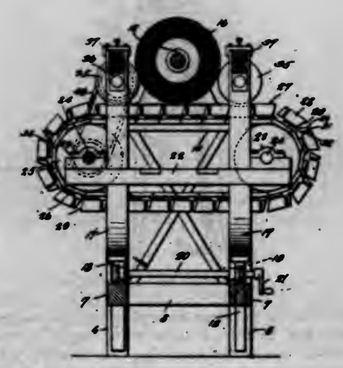
An invalid lifter and carrier, comprising a substantially rectangular base frame, front and rear pairs of uprights rising from the base frame, front and rear cross bars connecting the tops of the respective uprights, a substantially U-shaped top yoke connected to the uprights and cross bars with its arched end projecting beyond the front uprights, the sides of the yoke constituting arms extending upwardly and rearwardly from the rear uprights, pulleys at the upper ends of the arms, a shaft mounted across the arched end of the yoke, drums on the shaft, flexible elements depending from and trained over said pulleys and connected to the drums, tubular casings housing the flexible elements between the pulleys and the drums and constituting arm braces, a worm gear on the shaft, a worm engaging the gear and mounted in brackets on the front cross bar and the arched end of the yoke, and operating means for the worm.

1,450,951. WET-FILTER SCREEN. LUCIEN CHARLES CRUYT, London, England, assignor to Heenan & Froude, Limited, Worcester, England. Filed July 22, 1919. Serial No. 312,624. 1 Claim. (Cl. 261—95.)



A wet-filter for gas comprising a screen and a filling medium associated therewith and composed of a mass of smooth, nonporous, filamentous elements adapted to be wet by liquid flow thereover and matted together to form interstices for the passage of gas therethrough.

1,450,952. CONVEYER. OLIVER P. FIKE, Findlay, Ohio, assignor of one-half to Ernest M. Hoppenberg, Findlay, Ohio. Filed Dec. 31, 1920. Serial No. 434,305. 3 Claims. (Cl. 198—179.)



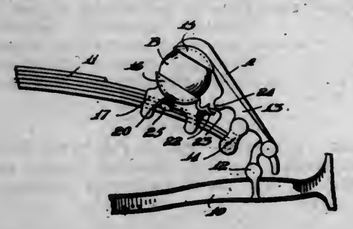
1. In a device of the character described, a frame, sprocket wheels supported by the frame, an endless conveyer operating over the sprocket wheels, said conveyer including chains, bars supported by the chains, each of the bars including a body portion and a movable section, the movable section of one bar adapted to move into clamping relation with one edge of the adjacent bar to clamp an article therebetween, and said movable sections adapted to move out of clamping relation with the adjacent bar when the bars pass over the sprocket wheels.

1,450,953. ABDOMINAL SUPPORTER. MARIE ALIDA FONTAINE, Manchester, N. H. Filed Sept. 30, 1921. Serial No. 504,384. 5 Claims. (Cl. 2—188.)



3. In an abdominal supporter the combination of a wide inside band of knitted material having a vertical examining slit at a line to be proximate the side of the wearer and having eyelets for lacing said slit, said inside band having ends which approach each other at the back of the wearer and are provided with stiffeners and eyelets for back lacings, said back lacings, and slit lacings for said inside band, with thigh straps and stocking supporters attached to the bottom edges of the inside band, and a narrower outside band made at the front of nonelastic material so attached to the inside band at the front and at another point that it will stay in place and having two sets of tightening straps, one set being so located and of such character that when released the slit lacing of the inside band is exposed.

1,450,954. SHOCK ABSORBER. STEPHEN GAVEL and EBER FROST, Olds, Alberta, Canada. Filed June 24, 1921. Serial No. 480,121. 1 Claim. (Cl. 267—18.)



The combination with the spring and axle of a vehicle, of a shock absorber comprising an arm pivotally mounted on the axle, a lug extending from the arm and pivotally connected to the spring, a cup formed on the free end of the arm, a cup-shaped receiving member on the spring having an orifice therein, a sphere of resilient material designed to be inflated with air engaged by the two cups, an air inlet valve on the sphere extending through the orifice, a concave extension formed on the cup-shaped receiving member, a spherical lug designed to engage with the concave extension to limit the pivotal movement of the arm, and a finger on the arm extending on the opposite side of its pivot, as and for the purpose described.

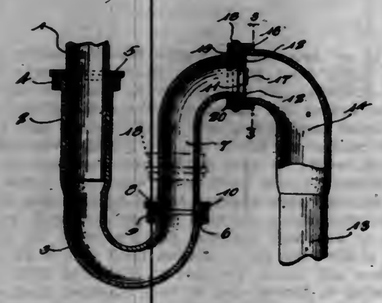
1,450,955. BOUQUET HOLDER. ALLAN GLASSMAN, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,400. 2 Claims. (Cl. 24—6.)



1. A bouquet holder including a base portion, a circular element secured thereto having a gap therein, said circular

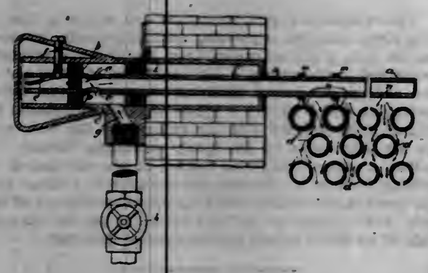
element being channeled at one end, a movable element operating in said channel to close the gap, and a spring means for urging said movable element to a closed position.

1,450,956. DRAINPIPE TRAP. CHRISTIAN H. GOTTSCH, New Hyde Park, N. Y. Filed June 12, 1922. Serial No. 567,648. 3 Claims. (Cl. 182—12.)



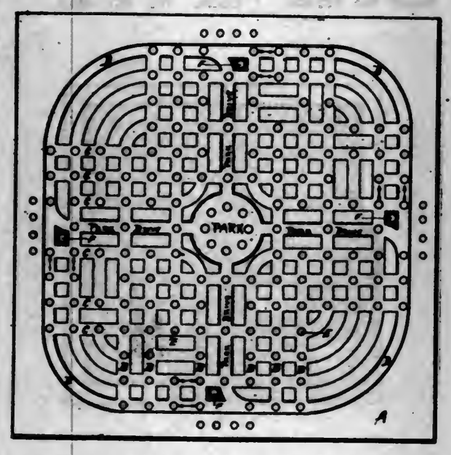
1. In a drain pipe trap construction, a trap member, a pipe section connected with said trap member and having a curved end portion, a second pipe section having a curved end portion conforming to the curvature of the curved end portion of the first mentioned pipe section and adapted for telescopic engagement therewith, and means for securing the curved end portions of said pipe sections with the second pipe section selectively extended either parallel to the first pipe section or in diverging relation thereto.

1,450,957. CLEANER FOR WATER-TUBE BOILERS. PERCY GILBERT HANDOLL, Battersea, London, England. Filed Nov. 1, 1918. Serial No. 260,709. 8 Claims. (Cl. 132—392.)



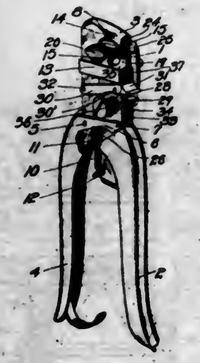
1. A cleaner for water tube boilers comprising a steam blower tube mounted to extend transversely of the boiler tubes and formed with steam outlet orifices in the portion adjacent the boiler tubes, a cylinder mounted outside of the boiler, a steam supply means connected with the forward end of the cylinder, and guiding and actuating means for the blower tube including a piston adapted to reciprocate in said cylinder to rotate said blower tube, said piston having a vent adapted to admit steam slowly from the front to the back of the piston and rear end of the blower tube.

1,450,958. GAME BOARD. CONRAD A. JOHANNESEN, Erie, Pa. Filed Apr. 7, 1921. Serial No. 459,211. 2 Claims. (Cl. 46—21.)



1. A game apparatus comprising a board having a central space, a marginal pathway, radial path-ways connecting said central space with said marginal path-ways, and a series of intersecting pathways connecting and intersecting said radial pathways and marginal path-way.

1,450,959. OPTICIAN'S TOOL. JAMES M. LAWLOR, Topeka, Kans., assignor of one-half to T. H. Cutsinger, Topeka, Kans. Filed May 20, 1921. Serial No. 471,138. 5 Claims. (Cl. 81—15.)

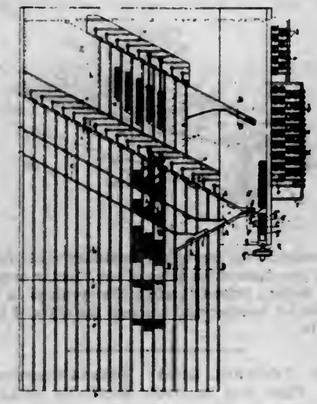


1. In a tool of the class described, a rigid jaw member, a movable jaw member slidable with respect to the rigid jaw member, means for actuating the slidable jaw member to bring the effective parts of the jaw members together to clamp the frame clamps of an eye-glass mounting, and a frame positioning and holding means carried by the rigid jaw member for holding the frame in the groove in the clamp of the eye-glass mounting.

1,450,960. PRINTING-TYPE-COMPOSING APPARATUS. ALFRED LUBAC, Paris, France. Filed July 26, 1921. Serial No. 487,601. 5 Claims. (Cl. 276—15.)

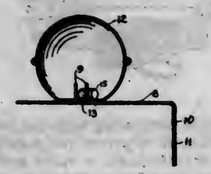
1. Printing type assembly or composing apparatus characterized by type magazine comprising two superposed platforms inclined at 45° and supported on a base, the said platforms being divided by horizontal bars so

as to form spaces for the type the bottom of the type being supported on the horizontal bars so that the types are ready to hand, the said bars being provided with a



space adjacent the slides or chutes which lead to a collector, a space or slot sufficient to allow of the passage of the flat type on their release by mechanism, actuated by keys from a keyboard or by hand.

1,450,961. PROCESS OF MOUNTING BELLS ON TOYS OR OTHER ARTICLES. ARTHUR OTTERBEIN, Middletown, Conn., assignor to The Kirby Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Feb. 24, 1921. Serial No. 447,577. 2 Claims. (Cl. 29—148.2.)



1. The process of mounting bells on toys, which consists in throwing up out of the metal strip to which the bells are to be secured a pair of prongs for each bell adapted to fit a hole in the base of the bells, and clamping said prongs rigidly to said bells on the inside.

1,450,962. SHEATHING BOARD. SAMUEL R. SHOUP, Weehawken, N. J. Filed Jan. 20, 1922. Serial No. 530,715. 9 Claims. (Cl. 72—116.)



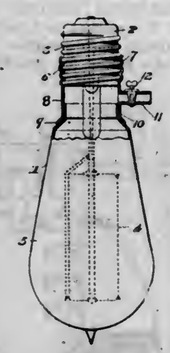
8. In combination a parallel series of strips of wood having undercut edges, a sheet of fireproof sheathing board, backing wires on the back of said sheathing board at an angle to said strips of wood, and fastening means for securing said back wires and said fireproof sheathing board to said strips of wood.

1,450,963. MATCH BOX. STANLEY SZASTALO, New York, N. Y. Filed Jan. 25, 1922. Serial No. 531,525. 4 Claims. (Cl. 206—33.)



1. A match box comprising an open-faced receptacle, a door of less longitudinal dimension than the said open face extending thereacross, and an outer door adapted to close the open face of said receptacle, a guide element on the face of the door opposite the said open face and adapted to receive a card and a door covering said card, said two last mentioned doors being of greater area than the said receptacle, for the purpose specified.

1,450,964. INCANDESCENT ELECTRIC LAMP. GEORGE WASHINGTON TURNER, Cleveland, Ohio. Filed Feb. 4, 1921. Serial No. 442,472. 1 Claim. (Cl. 176—37.)

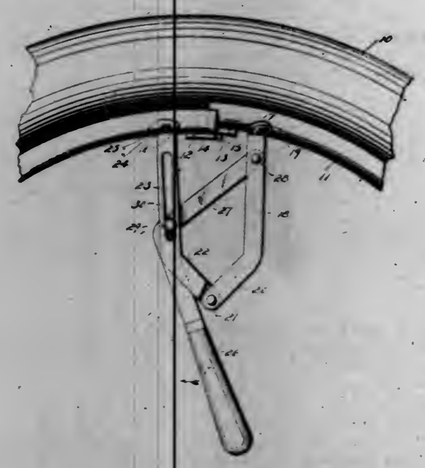


In an incandescent lamp, a screwthreaded plug carrying a filament, a bulb in which the filament is located and a thin metal sleeve having an upper screwthreaded portion forming a socket for receiving the plug, a lower portion having a neck, said neck receiving the upper end of the bulb and a tube intermediate the screwthreaded and neck portions of said sleeve communicating with the interior thereof and provided with a valve controlling the passage through said tube to the interior of the sleeve for maintaining and destroying a vacuum in said bulb.

1,450,965. TOOL FOR TIRE RIMS. BENJAMIN V. UNGER, New Haven, Conn. Filed Mar. 19, 1921. Serial No. 453,726. 2 Claims. (Cl. 157—1.)

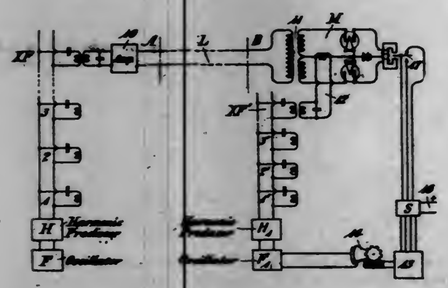
1. In a tire rim tool, the combination with companion legs; each of said legs having a base portion and an angular portion, these latter portions being movably secured to each other, and one of said legs having a slot therein; of a handle member movably connected with the non-slotted leg and having an operative connection with

the other leg by means of said slot, whereby the said base portions will move toward and away from each other upon their common securing means, while that portion of said handle member is moving through said slot and



whereby one of said legs will move through an arc, the center of which is the outer end of the other of said legs, when said handle portion has engaged either end of said slot.

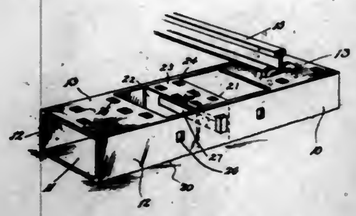
1,450,966. SYNCHRONIZING SYSTEM. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 30, 1919. Serial No. 327,459. 7 Claims. (Cl. 178—44.)



1. The method of synchronization which consists in producing a first frequency, generating a second frequency, producing a harmonic from said second frequency, said harmonic having a frequency in the neighborhood of the first frequency, beating said first frequency with said harmonic and controlling said second frequency by the resultant difference frequency.

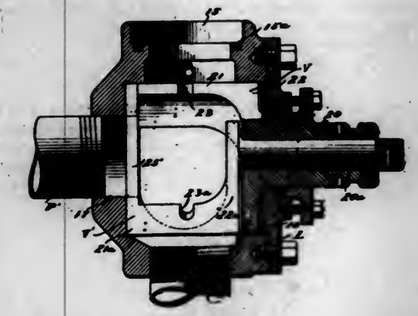
1,450,967. METALLIC RAILWAY TIE AND CHAIR. REUBEN R. ALLSHOUSE, Freedom, Pa. Filed Mar. 15, 1922. Serial No. 543,890. 1 Claim. (Cl. 238—274.)

A tie consisting of a tubular member having bridging portions at its ends, the top of the member being open between said bridging portions and the sides of the member between said bridging portions having openings therethrough, rail-securing clamps fitted through and secured in the bridging portions, an auxiliary chair consisting of an inverted channel member fitted through the open top of the tubular member with its sides bearing against the sides of the tubular member and resting on the bottom



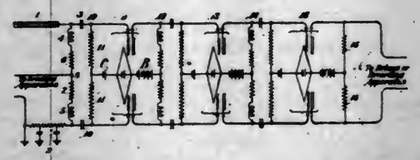
of said member, the top of the auxiliary chair being flush with the top edges of the sides of the tubular member, and securing wedges driven through the openings in the sides of the tubular member and through the sides of the auxiliary chair.

1,450,968. CONTROL HEAD. DELSON BREEDING, Tulsa, Okla. Filed May 26, 1920, Serial No. 384,441. Renewed Sept. 13, 1922. Serial No. 588,080. 5 Claims. (Cl. 166—15.)



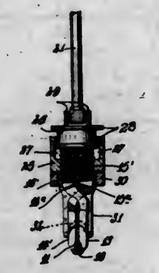
1. A control head comprising a casing having apertures formed therein adapted to permit the passage of a drilling cable and tools therethrough, a valve within the casing movable to prevent the passage of fluid through one of said apertures, and a second valve movable within the casing and adapted to coact with the first valve to also prevent the passage of fluid through said aperture, said valves being movable in arcs of the same circle and having their confronting edges formed with recesses adapted to receive the drilling cable when the valves are moved to restrain the flow of fluid through said aperture.

1,450,969. RECEIVING CIRCUITS FOR WEAK SIGNAL CURRENTS. JOHN R. CARSON, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 18, 1918. Serial No. 240,632. 7 Claims. (Cl. 178—63.)



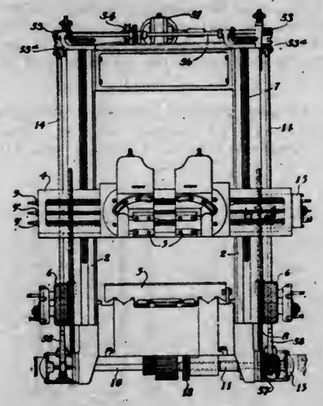
1. In a signal transmitting system a main line, an artificial line, means for correcting the form of received impulses, comprising a plurality of elements symmetrically connected between said main and artificial lines and an amplifier connected to said correcting means and having both its input and output circuits symmetrically arranged with respect to the opposite terminals of said correcting means.

1,450,970. TROLLEY HANGER. FRANK CHESZNEKY, Yukon, W. Va. Filed Dec. 8, 1922. Serial No. 605,577. 5 Claims. (Cl. 191—40.)



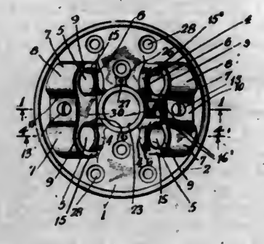
1. A trolley wire support comprising a pair of vertical plates adapted to grip the sides of the wire and formed with semi-cylindrical screw-threaded upward extensions jointly forming a stud, said extensions being transversely offset from their respective plates, one of them extending through an aperture in the other, abutting fulcrum ribs formed on adjacent faces of said extensions, and a member screwed on said extensions, and a device adapted to be pressed downwardly by said member to press said plates against the wire.

1,450,971. PLANER. ALFRED W. DRAEGEKE and ALBERT W. PARKES, Dundas, Ontario, Canada, assignors to Niles Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1921. Serial No. 441,846. 32 Claims. (Cl. 90—49.)



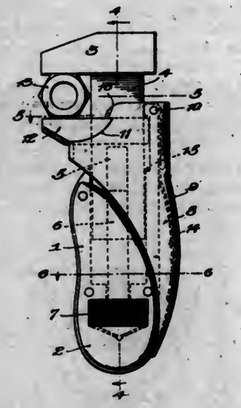
1. In a planer, the combination of a reciprocating table, a tool head adjacent the table, a feed screw for moving the head, mechanism including a shaft intermittently operated from the table reciprocating means for feeding the tool through the feed screw at each table reciprocation, and a separate power means for traversing the tool, the feeding and traversing mechanism being adapted to operate through the same means to move the tool.

1,450,972. OUTLET BOX. LEWIS H. CHURCH, Roselle, and GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignors to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Aug. 19, 1921. Serial No. 493,572. 11 Claims. (Cl. 247—25.)



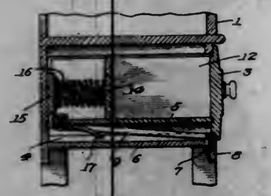
1. In an outlet box, the combination with an inlet opening, a seat member adjacent said opening, a clamp member adjacent said opening, and means for forcing said clamp member toward said seat member to clamp a cable therebetween, of a shoulder on the inner end of said seat member and a shoulder on the inner end of said clamping member, one of said shoulders being extended to laterally overlap the other of said shoulders, and said shoulders being adapted to cooperate to form a substantially continuous shoulder for any one of a number of different sized cables secured by said clamping means.

1,450,973. WRENCH. WILLIAM H. CLOPTON, Jr., Camp Meade, Md. Filed Sept. 18, 1919. Serial No. 324,500. 1 Claim. (Cl. 81—87.)



A wrench comprising a handle having therein a socket that opens through one end, a relatively fixed jaw having a shank or stem extending into said socket and adjustable longitudinally therein, a lever having spaced side members embracing the handle and pivotally connected thereto in rear of the stem of the fixed jaw, adjacent the outer end of the socket in the handle, the side members of the lever extending beyond the front edge of said stem and provided in their edges with jaw receiving seats, a movable jaw supported in said seats and embracing the stem of the fixed jaw, the movable jaw being situated entirely in planes on the opposite side of the plane of the pivot between the handle and lever from the fixed jaw, and a spring arranged between the handle and lever and acting to turn the latter to carry the movable jaw away from the fixed jaw.

1,450,974. SLIDING DRAWER AND LOCKING MEANS THEREFOR. JOHN BOOTES, Tomahawk, Wis. Filed Apr. 12, 1922. Serial No. 552,003. 1 Claim. (Cl. 45—94.)

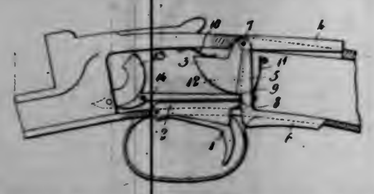


The combination with a cabinet or similar article of furniture having a drawer opening, a drawer slidable through the opening, a bottom below the drawer whose outer edge is spaced from the frame of the cabinet, said drawer divided into an outer and inner compartment, spring means in the cabinet contacting the drawer for influencing the same to open position, downwardly inclined spring bars secured to the bottom of the drawer in contact with the outer member of the frame of the cabinet for holding the drawer from opening, and said members designed to be moved to releasing position by the insertion of an instrument through the space between the bottom and frame of the cabinet to move the bars out of contact with the cabinet, and a downwardly inclined spring stop member secured to the bottom of the drawer for contacting the frame of the cabinet when the drawer has been moved a distance to uncover the outer compartment, and wherein a flat instrument must be inserted in the referred to space to influence the last mentioned stop to permit of the full opening of the drawer.

1,450,975. PROCESS FOR THE MANUFACTURE OF BORAX AND BORIC ACID. ANDREW KELLY, London, England, assignor to Borax Consolidated Limited, London, England. Filed Apr. 12, 1921. Serial No. 460,806. 4 Claims. (Cl. 23—13.)

1. A process for the manufacture of borax characterized by treating sodium pentaborate by adding thereto a sodium salt and ammonia.

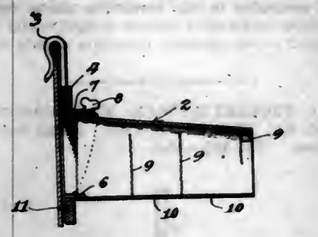
1,450,976. SAFETY DEVICE FOR PORTABLE FIREARMS. EDWARD LARSON, Lerdala, Sweden. Filed Feb. 10, 1921. Serial No. 443,989. 10 Claims. (Cl. 42—70.)



1. A safety device for guns, including a frame, a hammer, means for holding the hammer in the cocking position, a trigger, two members for locking said trigger independently of each other, said locking members each having a part projecting outside of the handle of the stock so that the locking members are released on seizing the stock at firing, and means for causing said locking members to be locked automatically in the released position after the discharge.

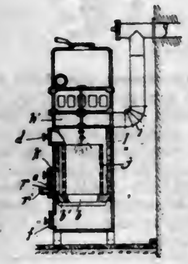
1,450,977. CLEAR-VISION RAIN GUARD FOR WINDSHIELDS. WILLIAM S. LUCKETT, Chestnut Hill, Pa. Filed Feb. 24, 1922. Serial No. 539,023. 3 Claims. (Cl. 20—40.5.)

1. A clear vision rain guard including an attaching frame, a casing associated therewith, and wire mesh baffles projecting from the top and bottom of the casing and terminating short of that portion toward which each



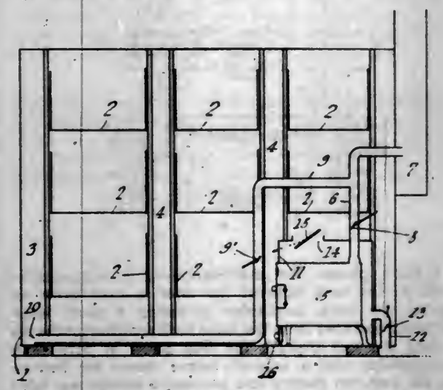
extends and arranged so that one at least is always in the driver's line of vision.

1,450,978. STOVE. KARL LÜSKE, Budapest, and ANDOR MOUSSONG and PAUL MOUSSONG, Toina-Hogyesz, Hungary. Filed Aug. 29, 1921. Serial No. 496,671. 3 Claims. (Cl. 126—77.)



1. In a down-draft stove, the combination of a substantially air-tight casing, an apertured fire pot, grate and ash-pit, an exit flue communicating with the said ash-pit, means to admit air to the bottom of the fuel shaft and means to keep free of fuel a part of the grate adjacent to the discharge end of the air admission, permitting part of the air to flow directly through the said free part of the grate and part of the air to pass through the fuel before reaching the grate, said free part of the grate being provided with openings for the passage of the air.

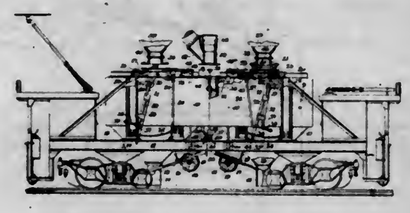
1,450,979. SWEET-POTATO-CURING APPARATUS. HENRY THOMAS LITTLETON, Marshall, Tex. Filed Apr. 15, 1920. Serial No. 374,121. 2 Claims. (Cl. 34—19.)



1. The combination with a structure having airtight walls, of means therein for curing sweet potatoes or the

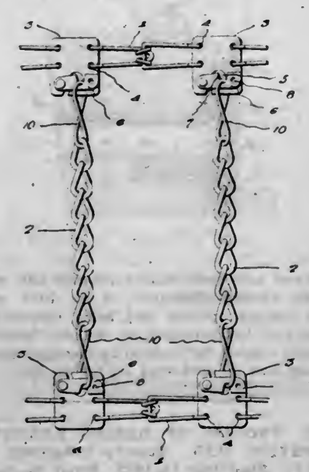
like to retard bacterial action, said means including a heater for raising the temperature within the structure above the temperature of the external atmosphere, means for directing air from the external atmosphere into the structure to be heated by said heater and to rise within the structure, said heated air constituting means for absorbing moisture from the contents of the structure and conveying it toward the bottom of the structure during the cooling of the air, and means controlled by the heater for directing the moisture laden air out of the structure.

1,450,980. CALCINE CAR. ALEXANDER GRANT MCGREGOR, Warren, Ariz. Filed Sept. 17, 1921. Serial No. 501,383. 15 Claims. (Cl. 214—18.)



1. A calcine car provided with a receptacle having a closed top with a filling opening therein, and vertically extensible means mounted on said receptacle for forming a laterally closed conduit between said filling opening and a chute at the bottom of a storage bin.

1,450,981. CHAIN. PATRICK MCLOUHLIN, Worcester, Mass. Filed Apr. 10, 1922. Serial No. 551,089. 2 Claims. (Cl. 152—14.)



1. An anti-skid device comprising a pair of holding chains, cross chains, means for detachably connecting the cross chains with the holding chains, such means comprising a plurality of plates forming portions of the holding chains and having hook-shaped slots therein for receiving the end links of the cross chains.

1,450,982. PROCESS FOR REMOVING DESTRUCTIVE SUBSTANCES FROM NONAQUEOUS MEDIA. MELVILLE J. MARSHALL and GEORGE S. SHAW, Shawinigan Falls, Canada, assignors to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada, a Corporation. Filed Sept. 17, 1920. Serial No. 410,934. 15 Claims. (Cl. 260—106.)

12. In the manufacture of ethylidene diacetate, the addition to the reaction liquor comprising chiefly ethylidene diacetate, acetic acid and a mineral acid, of an acetate in quantity sufficient to precipitate all the mineral acid, and subsequently separating ethylidene diacetate from the mixture by distillation.

14. In the manufacture of esters by processes in which a mineral acid remains admixed with the ester and which will decompose the ester during purification, the step of adding a metal salt in quantity sufficient to precipitate all the mineral acid, the said salt being capable of combining with substantially no liberation of water and of producing a compound inactive and insoluble in the ester.

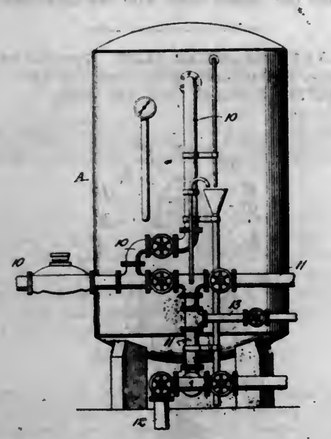
1,450,983. MANUFACTURE OF ALDEHYDE-AMMONIA. HOWARD W. MATHESON, Montreal, Quebec, Canada, assignor to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Filed Oct. 18, 1919. Serial No. 331,657. 10 Claims. (Cl. 260—141.)

1. A process for the manufacture of aldehyde-ammonia comprising bringing together acetaldehyde vapor and gaseous ammonia.

1,450,984. PROCESS OF MAKING CONDENSATION PRODUCTS OF ALIPHATIC ALDEHYDES. HOWARD W. MATHESON, Montreal, Quebec, Canada, assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Filed Feb. 7, 1921. Serial No. 443,230. 12 Claims. (Cl. 260—140.)

8. A process of making a condensation product of acetaldehyde, which comprises adding to the aldehyde approximately 0.5% by weight of caustic alkali in aqueous solution.

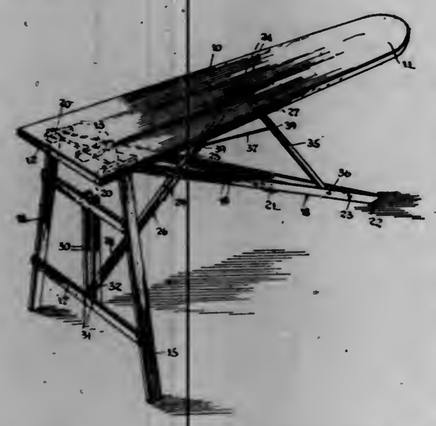
1,450,985. PROCESS OF REGENERATING BEDS OF EXCHANGE SILICATES. JOSEPH M. MAXWELL, Wichita, Kans. Filed June 27, 1922. Serial No. 571,329. 4 Claims. (Cl. 23—13.)



1. The process of regenerating after use a bed of water softening exchange silicates contained in a water softening apparatus, which comprises passing fresh water through said bed in an upward direction under pressure sufficient to cause a disturbance of the granular material, then draining the bed, then flooding the bed with a salt

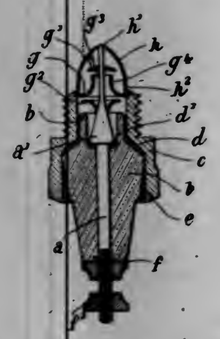
solution and subsequently draining off said solution to substantially the top of the bed, again flooding said bed with a corresponding salt solution and subsequently draining said solution off to substantially the top of the bed, and finally washing out the remaining contaminated salt solution with a supply of fresh water.

1,450,986. IRONING BOARD. ROBERT ANGUS MORRISON and FRANKLIN LAURENCE OSWALD, Portland, Oreg. Filed Mar. 10, 1922. Serial No. 542,793. 1 Claim. (Cl. 68—10.)



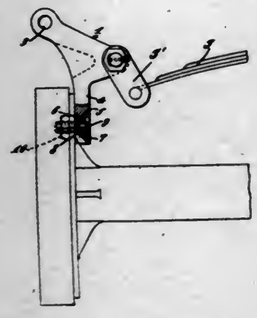
An ironing board or table comprising a board, a frame pivoted beneath the board at one end, a supporting member pivoted to the board at the said one end of the latter and adapted to extend forwardly and downwardly, a collapsible brace between the frame and the board in spaced relation to the pivotal connection of the frame and supporting member with the board, a brace pivotally connected to the supporting member near the lower end thereof and movably associated with the board adjacent the upper end of the collapsible brace, and a link connecting the last named brace with the collapsible brace.

1,450,987. SPARKING PLUG. EDOUARD PETHOUD, Lausanne, Switzerland. Filed Sept. 30, 1920. Serial No. 413,771. 5 Claims. (Cl. 123—169.)



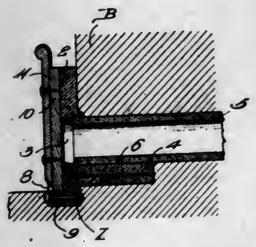
1. A spark plug comprising a shell, an insulator within said shell and terminating short of the inner end thereof, a central electrode carried by said insulator projecting from said shell, a cap secured to the end of said shell having an aperture surrounding the central electrode and forming a spark gap therewith and provided with a lateral aperture above said spark gap cooperating with the latter to form a draft passage within said cap, and a baffle within said cap arranged in a plane intermediate said apertures to deflect the draft from said insulator.

1,450,988. AUTOMOBILE PERCH. GEORGE C. ROEDL, Beaver Dam, Wis. Filed Sept. 14, 1922. Serial No. 588,208. 3 Claims. (Cl. 267—54.)



1. A perch of the class described in the form of a reversible casting having spring attaching means on opposite sides thereof at longitudinally spaced intervals.

1,450,989. WATER GATE. THOMAS SCHUSTER, Phoenix, Ariz. Filed Mar. 17, 1921. Serial No. 453,136. 5 Claims. (Cl. 61—28.)



1. A water gate comprising a pre-cast unit embodying a plate for vertical disposition in the ditch, said plate having a central opening and being equipped with a horizontal shelf-like extension on one side forming a rest for the pipe, a guide for facilitating insertion thereof into the opening, and an anchoring leg for the unit.

1,450,990. PROCESS OF MAKING 2-NAPHTHOL 3-CARBOXYLIC ACID. EDMUND C. SHOREY, Washington, D. C. Filed Mar. 14, 1922. Serial No. 543,775. 5 Claims. (Cl. 260—110.)

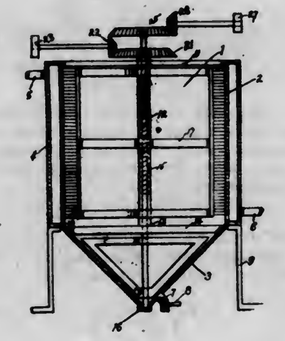
3. In the process of making 2-naphthol 3-carboxylic acid by subjecting alkali metal beta naphtholate to the action of carbon dioxid under pressure and heating the reaction mixture, the step which consists in withdrawing gas carrying beta naphthol from said reaction mixture and supplying carbon dioxid gas free from beta naphthol to said reaction mixture during the heating operation.

1,450,991. PENCIL-ILLUMINATING DEVICE. HANS STECHER, Brooklyn, N. Y. Filed Mar. 17, 1922. Serial No. 544,437. 1 Claim. (Cl. 240—2.)



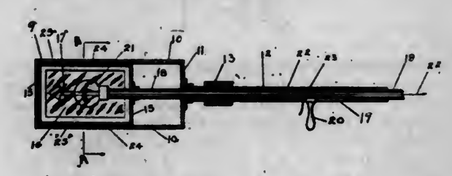
In an illuminating device, the combination with a writing implement, of a spring clip adjustably secured thereon, an arm extending outwardly from said clip, an illuminating bulb, a stem formed with said bulb, curved clip fingers formed with said arm, engaging said stem, a slide mounted on said arm, and a reflector carried by said slide whereby it may be focally adjustable to cause the light rays emanating from the bulb to be directed upon the path of the writing implement.

1,450,992. CRYSTALLIZER. TRUMAN E. STEVENS, Omaha, Nebr., assignor to Potash Reduction Company, Hoffland, Nebr., a Corporation of Nebraska. Filed July 7, 1921. Serial No. 483,006. 6 Claims. (Cl. 23—3.)



1. In a crystallizer, a tank having a jacketed wall provided with a crystallizing surface, means for passing a cooling medium through said jacketed wall and a revolving brush having the bristles thereof engaging said crystallizing surface to remove crystals therefrom.

1,450,993. VEHICLE SIGNAL. HENRY E. THAYER, Portland, Oreg. Filed Jan. 25, 1922. Serial No. 531,659. 4 Claims. (Cl. 116—50.)



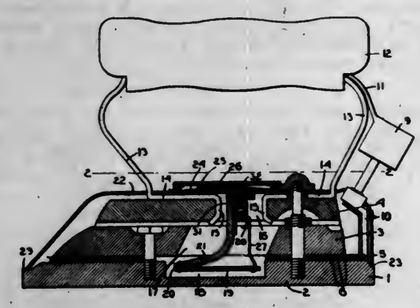
1. In a vehicle signal: a hollow casing rotatably mounted and bearing signal devices oppositely disposed thereon; a signal bearing member longitudinally slidably mounted within said casing and adapted to display signals when protruded from said casing; means to rotate said casing; and means to operate said signal bearing member.

1,450,994. VISIBLE DISPLAY ATTACHMENT FOR MEASURING PUMPS. WILLIAM S. TOWNSEND and FRANK E. DOUGLASS, Rochester, Pa. Filed June 12, 1922. Serial No. 567,836. 3 Claims. (Cl. 221—102.)



1. A visible display attachment for pumps comprising a visible container having an inlet for connecting it with the discharge side of a pump, a closable vent to permit the container to be filed from the pump and then closed to prevent outflow of the contents, a discharge nozzle, and a normally closed outwardly opening discharge valve subject to the pressure from the inlet and past which the liquid may flow to the discharge nozzle without discharging the contents of the container.

1,450,995. FLATIRON. WILFRED J. TURENNE, Danvers, Mass. Filed Dec. 17, 1919. Serial No. 345,479. 5 Claims. (Cl. 68—26.)



1. A flat iron comprising a base section having a central recess, a superimposed section, a heating unit between said base and superimposed section surrounding said recess, a thermostatic instrumentality and means for supporting the same in said recess below the plane of said heating unit and temperature indicating means operable by said thermostatic instrumentality.

1,450,996. TIME INDICATOR. ANDRÉ VARAUD, Geneva, Switzerland, assignor to Societe Anonyme d'Horlogerie et Bijouterie de Geneve, Geneva, Switzerland. Filed Aug. 11, 1920. Serial No. 402,920. 12 Claims. (Cl. 58—128.)

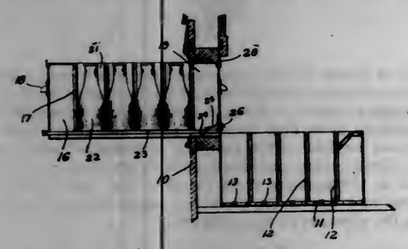
1. In a time indicator and in combination with a casing and a motor mechanism, a fixed dial having an opening therein, a movable dial having chronometric indications thereon visible successively through the opening in

the fixed dial, a sector operated by the said motor mechanism and adapted to periodically operate the said movable dial by imparting a partial revolution thereto to bring the



chronometric indication on the movable dial successively in position to be visible through the opening in the fixed dial.

1,450,997. RECEPTACLE FOR HOLDING MILK BOTTLES. FRANK VESCUSO, Providence, R. I. Filed Aug. 27, 1921. Serial No. 495,858. 5 Claims. (Cl. 232—41.)



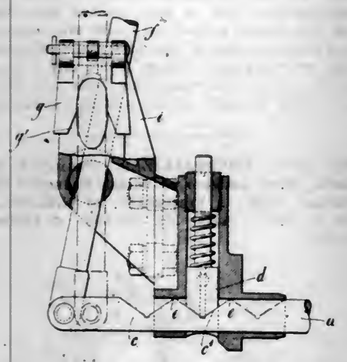
1. A compound receptacle comprising upper and lower sections of substantially the same capacity, the upper section being movable relatively to the lower section and both having a plurality of compartments registering with each other when the upper section is in normal position, and a false bottom member in the upper section adapted to be withdrawn to drop the contents of the upper into the lower section when desired.

1,450,998. HIGHWAY-CROSSING SIGNAL. EUGENE W. VOGEL, Oak Park, Ill., assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill., a Corporation of Illinois. Filed Mar. 3, 1920. Serial No. 362,974. 14 Claims. (Cl. 177—320.)



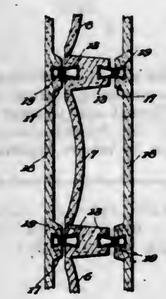
6. A railway crossing signal comprising a movable mounted signal, a concealing cover, means for moving said signal positively back and forth in the clear with respect to the cover, other means for moving said signal positively beyond the limit of its movement by said first named moving means and into position behind said cover, and electrically operated means for controlling the operation of said several signal moving means for causing them to act alternatively.

1,450,999. VARIABLE-SPEED GEARING FOR MOTOR ROAD AND OTHER VEHICLES. EDWARD JOHN WADE, St. John's Wood, and GEORGE WILLIAM JACOBS, Purley, London, England. Filed Mar. 25, 1922. Serial No. 546,853. 5 Claims. (Cl. 24—39.)



1. The combination in a motor vehicle having a gear box, of an auxiliary gear box through which driving motion is communicated, and means cooperating with said auxiliary gear box to render a neutral position of the gears thereof unstable.

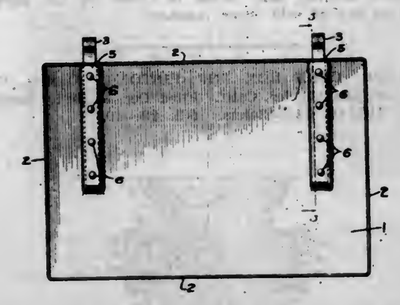
1,451,000. CONCRETE STRUCTURE. JOSEPH AEGIDIUS WHITE, Berkeley, Calif. Filed May 29, 1920. Serial No. 385,260. 3 Claims. (Cl. 72—16.)



1. A building construction of the character described comprising building slabs consisting of spaced beams and webbing extending between said beams and homogeneous therewith, a finishing slab for each of said building slabs, a metallic sleeper for the building slab and the finishing slab, each formed of a single piece of metal bent to trapezoidal form, and means for cooperating with the metallic sleepers for securing the finishing to the building slab.

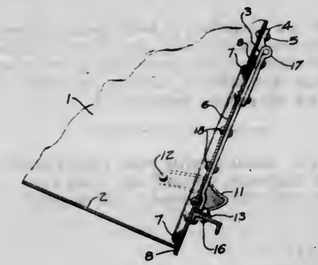
1,451,001. CAR DOOR. WILLIAM E. WINE, Toledo, Ohio. Filed Sept. 2, 1922. Serial No. 585,967. 2 Claims. (Cl. 105—280.)

1. A door for the discharge opening of a railway car embodying a plate of sheet metal provided with a marginal flange, a troughlike corrugation pressed in the inner or lading face of the door, the same extending at least



partly across the door and across the said marginal flange, and a hinge member disposed within the trough of the said corrugation.

1,451,002. CAR DOOR. WILLIAM E. WINE, Toledo, Ohio. Filed Sept. 2, 1922. Serial No. 585,968. 5 Claims. (Cl. 105—280.)



1. A door for the discharge opening of a railway car, the same being formed of a plate of metal conforming in general shape to the outline of the discharge opening, a corrugation formed around the periphery of the door plate, the same following the lines of the discharge opening, the general plane of the door plate being arranged when closed, to coincide substantially with the face of the discharge opening, the corrugated portion of the same extending inside of the plane defining the face of the discharge opening in a manner to constitute therewith a sealing means.

1,451,003. STORAGE BATTERY. WILLIAM H. WOOD, South Euclid, Ohio. Filed Mar. 28, 1921. Serial No. 456,157. 6 Claims. (Cl. 204—29.)

1. A separator element for storage batteries consisting of a sheet of porous wood impregnated with a water soluble salt of a metal which is at least as electropositive as magnesium.

1,451,004. METHOD OF SEPARATING ZIRCON FROM UNDESIRED SUBSTANCES. LOUIS E. BARTON and CHARLES J. KINZIE, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, Inc., Niagara Falls, N. Y., a Corporation of Maine. Filed July 16, 1921. Serial No. 485,404. 6 Claims. (Cl. 252.)

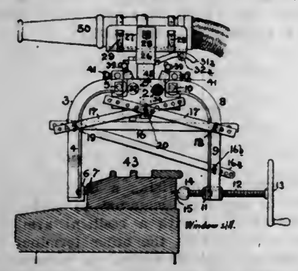
1. The method of treating ores containing zircon and therewith entangled undesired substances which comprises commingling therewith an alkali metal bisulphate, heating the charge, lixiviating the resulting product, and separating its liquids from its zircon residuum.

1,451,005. ARTIFICIAL TEETH. NILSEN BERCKA, Buenos Aires, Argentina. Filed Sept. 24, 1921. Serial No. 503,042. 1 Claim. (Cl. 32—9.)



Tooth attaching means comprising in combination with a fixed plate and one or more artificial teeth, said teeth having flat rear surfaces containing substantially central recesses extending downward from their upper ends to points uniform with the incisal edge of all of the teeth, the mentioned slots being slightly inclined with respect to the rear surfaces of the teeth, the walls of the slots being thicker at the bottom than at the top, ribs extending outward from said plates, beads on said ribs adapted to engage in the slots of the teeth, and serrations on said beads adapted to contain cement to hold said teeth assembled thereon.

1,451,006. ADJUSTABLE FIRE-NOZZLE SUPPORT. JACOB B. BLAW, Atlantic City, N. J. Filed Feb. 18, 1922. Serial No. 537,456. 8 Claims. (Cl. 248—28.)



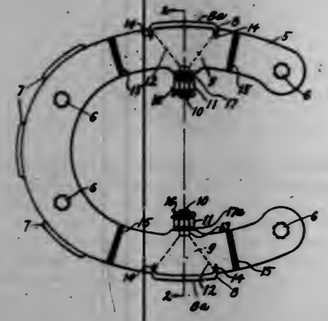
1. In a device of the character stated, a body part having adjustable clamping means whereby it may be detachably clamped in position upon a window sill, door frame, or other object, combined with a plurality of adjustable nozzle supporting means adapted to be used simultaneously, said supporting means being separately pivoted to the body part with capacity for being directed at different angles, whereby separate nozzles may be adjusted to concentrate the streams upon one spot or upon different portions of the conflagration.

5. In a device of the character stated, a body part provided with adjustable clamping means whereby it may be detachably clamped to a window sill, post, door frame or other object, combined with a nozzle support pivoted to the body whereby it may be oscillated in one plane, said support provided with a clamp for positively holding the nozzle, said clamp pivoted to the support for oscillation thereon in a plane at right angles to the plane of oscillation of the support, and a supporting rod adjustably fitting through the body and clamped thereto for sustaining the weight of the body when it overhangs as when being clamped to an upright post or door frame.

1,451,007. HORSESHOE. GEORGE M. BOGIE and ARTHUR SMITHSON, Glenwood, Minn. Filed Mar. 10, 1921. Serial No. 451,273. 3 Claims. (Cl. 168—19.)

1. A nailless horseshoe comprising an integral rigid body piece with horizontally directed apertures, one in

each side, slidable members one in each aperture and having each at the inner end a threaded nut and the outer end provided with an upwardly directed flat finger adapted to engage the hoof, said apertures being wider



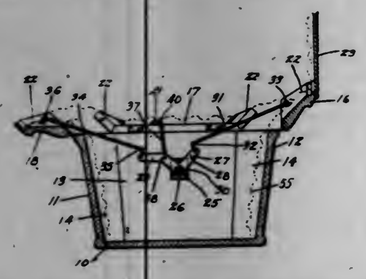
in horizontal direction than in vertical direction toward the outer edge of the shoe and the slidable part of each member placed therein being broadened so as to be strong near the finger, but reduced in width toward the threaded portion.

1,451,008. ELECTRIC SWITCH. WILLIAM BROAD, Beaver Falls, Pa. Filed Mar. 26, 1921. Serial No. 455,722. 1 Claim. (Cl. 200—165.)



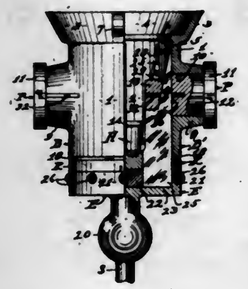
An electric switch, comprising a base plate of insulation, a pair of terminals mounted on said plate, one terminal being provided with a resilient arm normally urged toward contact with the other terminal to close the switch, and a finger of insulating material pivoted to said base plate and movable to a position between said terminals to open the switch, said finger being provided with a lug movable over the face of said arm to positively hold the arm in circuit closing position when said finger is moved from its position between said terminals.

1,451,009. CASKET. FRED H. CHARLESWORTH, St. Paul, Minn. Filed Mar. 16, 1922. Serial No. 544,294. 18 Claims. (Cl. 27—14.)



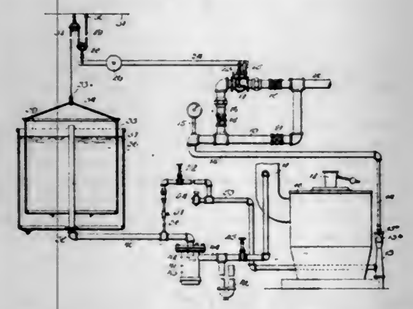
1. A closure for a casket including a plurality of cover members, means adapted to be concealed beneath the upholstery of the casket, said means comprising a member pivotally connected to the wall of the casket and a series of arms connected to said member on one end and the outer ends being connected to said cover members whereby said casket is closed by the movement of one of said cover members.

1,451,010. CORE BOX FOR PISTONS. DANIEL W. CLARK, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,760. 14 Claims. (Cl. 22—10.)



1. A core box comprising a body having diametrically opposite apertures in the wall thereof, plugs detachably held in said apertures, and plates held in the inner ends of said plugs and slidably movable therewith through said body, for the purpose described.

1,451,011. REGULATOR FOR GAS PRODUCERS. HENRY A. DREFFEIN, Chicago, Ill. Filed June 1, 1920. Serial No. 385,479. 8 Claims. (Cl. 48—87.)

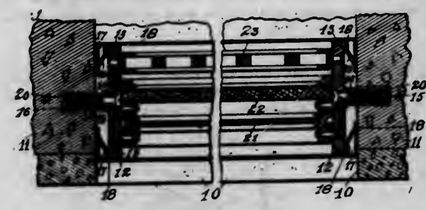


8. In combination with a producer, a gas main leading therefrom, a steam pipe leading thereto, a regulating valve associated with said steam pipe, a gasometer, means operatively interposed between said gasometer and said regulating valve, a fluid trap, a duct leading thereto from said gas main, a second duct leading thereto from said gasometer, and means to supply non-combustible fluid under pressure to said second duct, whereby the flow of gas from said main to said gasometer will be prevented.

1,451,012. METALLIC FRAME FOR WINDOWS, DOORS, ETC. EDWARD H. ELLISON, Jamestown, N. Y. Filed Jan. 29, 1921. Serial No. 440,924. 3 Claims. (Cl. 189—75.)

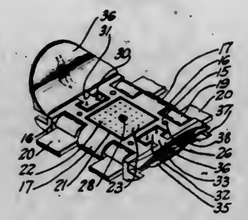
1. A door or window frame having lengthwise shoulders on the outer sides thereof near the edges of the frame,

a closure strip for the space between said frame and the surrounding wall, and a series of spaced spring lugs on



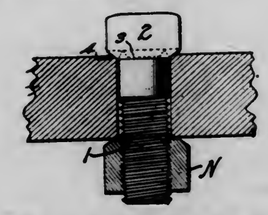
said closure strip adapted to spring into holding engagement with said shoulders when pressed into said space between said frame and wall.

1,451,013. ARTICULATED TIRE GUARD. HENRY S. ESCH, New York, N. Y. Filed July 7, 1920. Serial No. 394,488. 8 Claims. (Cl. 152—16.)



8. A tire guard comprising a plurality of hollow frames, pairs of articulating links engaging adjacent frames, lateral wings pivoted in the sides of the frames, perforated lugs on the exterior of said wings, inverted pans disposed in central openings in said frames, corrugations on the outer surface of said pans adapted to impinge on the tire, resilient blocks in said pans, spurred plate, removably engaged on said frames over said block, and means adapted to pass through the perforations in said lugs whereby the guards are constrained to the tire.

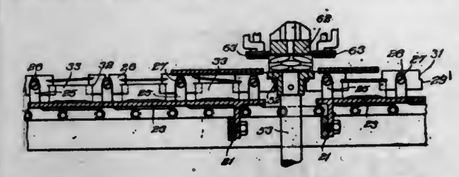
1,451,014. NUT AND BOLT LOCK. GEORGE A. FETHER, El Dorado, Pa. Filed Sept. 3, 1919. Serial No. 321,374. 2 Claims. (Cl. 151—19.)



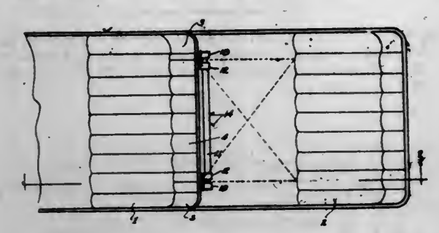
1. A lock nut for threaded bolts having a bearing face provided with a plurality of stepped bearing projections for progressively engaging directly with the part receiving the bolt.

1,451,015. AUTOMATIC CHAIN-FEED ATTACHMENT. PAUL W. FLEISCHER, Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1919. Serial No. 348,642. 21 Claims. (Cl. 113—14.)

1. In a machine for closing filled cans, the combination of seaming mechanism and endless chain conveyers movable therepast, and having speed means which support the cans and ends in spaced relation, said conveyers having means for preventing the ends rotating with respect to the bodies.



1,451,016. CONVERTIBLE VEHICLE BODY. WILLIAM C. FOWLER, Birmingham, Ala. Filed May 24, 1922. Serial No. 563,391. 2 Claims. (Cl. 155—7.)



1. A vehicle body having a seat with a back comprising two rigid end sections and a hinged rearwardly folding intermediate section, a tubular robe rail on the back of said folding section, latch keepers on said end sections, and latches concealed in the robe rail and projecting from the ends thereof to engage said keepers.

1,451,017. LIGHT SHIELD AND REFLECTING DEVICE. STERLING B. FRANKLIN and GAVIN S. YOUNKIN, Arkansas City, Kans. Filed Aug. 15, 1921. Serial No. 492,414. 1 Claim. (Cl. 240—48.2.)

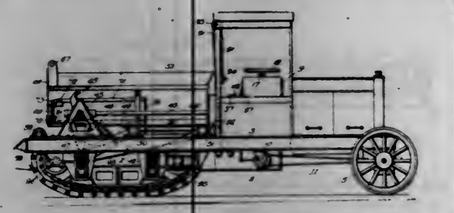


In a device of the kind described, the combination with the usual parabolic reflector, a lamp therein, and a ring releasably engaging the reflector, of a second reflector located within the first and having a concave reflecting surface arranged to reflect light from the lamp against the reflecting surface of the first reflector, which is below the lamp, and having its rear edge fitted to the reflecting surface of the first reflector, the second reflector extending to the horizontal plane of the top of the lamp, and a supporting plate secured to the second reflector and arranged to hold the rear edge of the latter against the first reflector and releasably held by the ring between the latter and the first reflector, substantially as set forth.

1,451,018. MOTOR-TRUCK DUMPING VEHICLE. JAMES C. FRENCH, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Original application filed Mar. 13, 1918, Serial No. 222,242. Divided and this application filed Oct. 7, 1918. Serial No. 257,132. 16 Claims. (Cl. 298—21.)

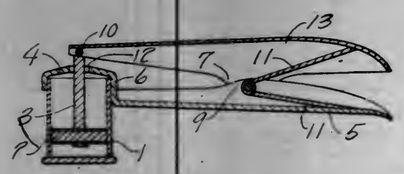
1. A motoor truck dumping vehicle comprising a chassis, a load-carrier, mechanism on said chassis to raise the load-carrier and shift it backward over the rear end of the chassis, means on said mechanism to provide a

transverse axis of tilting motion for said load-carrier, and devices supported by said mechanism to prevent the load



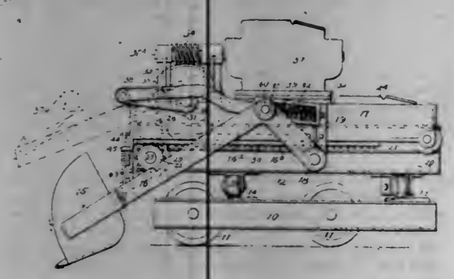
carrier from tilting while rising and for causing the load-carrier to tilt into a dumping position after being elevated by said mechanism.

1,451,019. VACUUM MASSAGER. HENRY P. GRABER, St. Louis, Mo., assignor to Adam Fisher Mfg. Co., St. Louis, Mo. Filed Oct. 29, 1921. Serial No. 511,385. 2 Claims. (Cl. 128—297.)



1. A vacuum massager, comprising the combination of a suction cylinder and piston and connecting rod therein; an integrally formed cylinder cap and lower handle stamped and formed from a single piece of sheet metal, the said cap having an aperture to accommodate the piston rod, and being adapted to frictionally engage the cylinder, and the handle being cylindrical in form next the cap and extended in a form U shaped in cross section; an upper handle likewise U-shaped in cross section, said upper handle being pivoted to the extended end of the piston connecting rod, and medially to the lower handle; and a spring set between the handles as means for normally holding the piston depressed in the cylinder.

1,451,020. LOADING MACHINE. ROBERT P. GREENLEAF, Cleveland, Ohio, assignor to Frank Billings, Cleveland, Ohio. Filed July 17, 1919. Serial No. 311,592. Renewed Sept. 6, 1921. Serial No. 498,935. 11 Claims. (Cl. 214—134.)



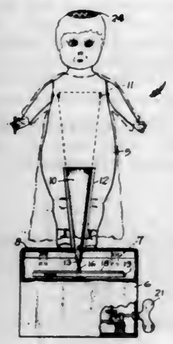
1. In a loading machine, a frame, a shovel actuating member supported by the frame and movable forwardly and rearwardly, a shovel adapted to be filled at the front of the machine and to be swung upwardly and rearwardly over the same to dumping position, an arm connecting the shovel to said member, a link connected to said arm for swinging the same relative to said member, and means for actuating the link.

1,451,021. WATER DRAIN FOR WINDOWS. JOHN HANSON, Alderson, Alberta, Canada. Filed Apr. 25, 1921. Serial No. 464,482. 3 Claims. (Cl. 20—70.)



1. The combination with a window sash of a water tank arranged thereon along the inner side of the window glass so as to receive water running down therefrom, said tank having an outlet extending downward and outward through the lower rail of the sash, a valve normally closing the inner end of said outlet and a float in the tank operatively connected with the valve to open it automatically when the water reaches a predetermined height in the tank and close it when the water has escaped, and a valve operated by the said water valve for closing out chill and frost from the outer end of the outlet.

1,451,022. PHONOGRAPH DOLL. SAMUEL HASKELL, Brooklyn, N. Y. Filed Oct. 23, 1922. Serial No. 596,364. 8 Claims. (Cl. 274—2.)

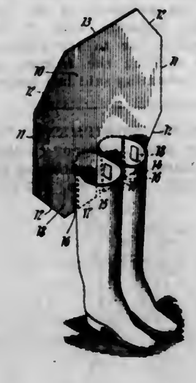


1. In a device of the character described, a cabinet containing a sound producing mechanism, a support associated with said cabinet having a cut out portion, and a sound projecting member extending from within said cabinet and pivotally mounted in said support so as to swing back and forth through its cut out portion.

1,451,023. DISPLAY DEVICE. WILLIAM L. HOPKINS, Roslyn, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1922. Serial No. 544,441. 4 Claims. (Cl. 40—2.)

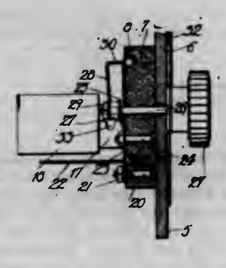
1. In a display device for top-boots or the like the combination of a member of sheet material having a

plurality of down-reaching feet arranged in a lateral row, the opposite end feet of said row being adapted for engagement with the opposite outfacing walls respectively of the boot-legs, the intermediate feet being



adapted for entry within said boot-legs respectively, the distance between said opposite end feet being less than the greatest transverse width of the legs engaged thereby and the width of said intermediate feet being less respectively than the greatest width of the leg engaged thereby.

1,451,024. COMBINED RHEOSTAT AND SOCKET. CONRAD KLEMMER and WALTER P. KOECHEL, Bogota, N. J.; said Koechel assignor to said Klemmer. Filed Apr. 4, 1922. Serial No. 549,601. 5 Claims. (Cl. 219—48.)



3. A device of the class described comprising an insulated rheostat base, a rheostat, a vacuum bulb mounting having a lateral extension rigidly secured in the body of the base and disposed so that the contact points of the vacuum bulb will make proper contact with the contact arms of the rheostat, and means for securing the base to a panel.

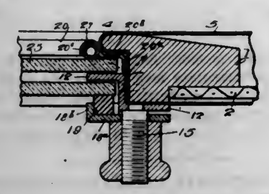
1,451,025. VULCANIZING VALVE. HENRY PHILLIP KRAFT, Ridgewood, N. J. Filed Sept. 20, 1918. Serial No. 254,903. 8 Claims. (Cl. 251—8.)

8. A vulcanizing valve or the like, comprising a valve seat, a hollow valve stem, and a conical valve member having a swivelled connection with the stem so that the valve member is adapted for only relative rotational



movement with respect thereto, the stem having lateral openings in its walls communicating with its interior to provide for the passage of a fluid through the interior.

1,451,026. CARRIAGE CURTAIN WINDOW FRAME. LAWRENCE C. NELSON, Chicago, Ill., assignor to Stewart Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 9, 1922. Serial No. 587,138. 6 Claims. (Cl. 296—145.)

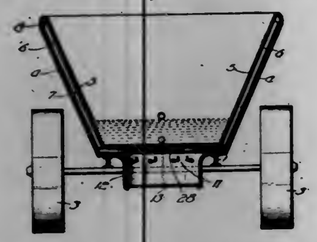


2. In a carriage window frame in combination with a rigid frame member encompassing the window opening; channel guideways for a lower sliding inner side glass extending for guiding the sash both at the lower and at the upper part of the opening; a seating member for a fixed upper outer side glass mounted adjacent to and outward from the zone of the channel guideways, said seating member having an inwardly hollow bead encompassing the frame opening and a cushion member engaged in the hollow of of said bead for seating on the outer face of the upper glass, said cushion having a wing occupying said seating member from the lower edge of the outer sash downwardly affording a lower stop for the upper glass.

1,451,027. SNOW-MELTING APPARATUS. HALFTEN EUGENE OLSEN, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed July 15, 1918. Serial No. 244,999. 8 Claims. (Cl. 126—343.5.)

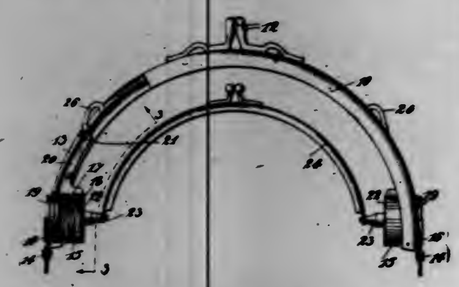
1. In a portable snow-melting apparatus, the combination of a vehicle, an open top receptacle having watertight and continuous bottom and sides mounted on said vehicle to receive the snow, instrumentalities for heating the bottom and sides of said receptacle, and means for drawing off the water resulting from the melting of the

snow, said receptacle having a combustion chamber at the bottom thereof, and having double walls forming



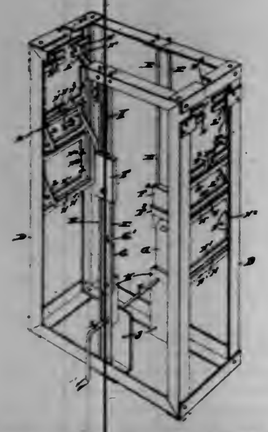
separate spaces which communicate with said combustion chamber, the upper ends of said spaces communicating with each other to provide free circulation of the heat.

1,451,028. BAG FRAME. ROBERT L. PRAHAR, Brooklyn, N. Y. Filed Dec. 30, 1921. Serial No. 525,923. 12 Claims. (Cl. 150—29.)



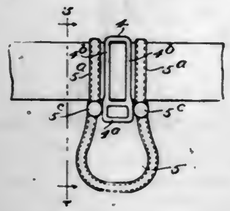
1. A bag frame member including a pair of jaw members and an intermediate member spacing them apart at their lower ends but permitting their upper ends to lie closely adjacent to each other, whereby the jaw members lie in converging planes when in closed position.

1,451,029. PHOTOGRAPH-DISPLAY CABINET. HARRY ROTH, Detroit, Mich. Filed Feb. 27, 1922. Serial No. 539,440. 7 Claims. (Cl. 40—36.)



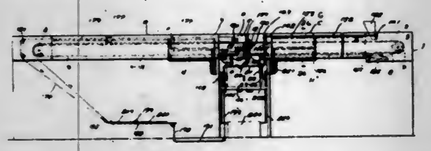
1. In a device of the character described, a cabinet provided with windows in its opposing walls, a plurality of movable frames adapted for the display of photographs or the like placed back to back in said frames, means for guiding said frames vertically and transversely within the cabinet, whereby they may be delivered to the respective windows in the opposing walls of the cabinet, means adapted to urge the passage of the frames from one wall to the opposite wall of the cabinet, means adapted to remove the frame adjacent the window in one wall of the cabinet while the movement of the frame adjacent the window in the opposing wall of the cabinet is momentarily suspended due to the alternate operation of the means for shifting the frames, and manually operated means for actuating said last named means.

1,451,030. MILITARY EQUIPMENT. CLARENCE E. SMITH, Worcester, Mass., assignor to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 26, 1921. Serial No. 487,772. 2 Claims. (Cl. 224—3.)



2. Military equipment comprising, in combination with a belt, an attachment supporting slide mounted thereon, and a slide-safe or shield provided with a pair of attaching straps which embrace the belt at opposite sides laterally of the slide, and detachable fastenings securing the said straps around the belt and adapted to permit the slide-safe to be removed without removing the slide.

1,451,031. CONFECTION-MAKING APPARATUS. CLIFFORD P. SPECK, Oakland, Calif. Filed May 17, 1920. Serial No. 381,849. 25 Claims. (Cl. 107—1.)

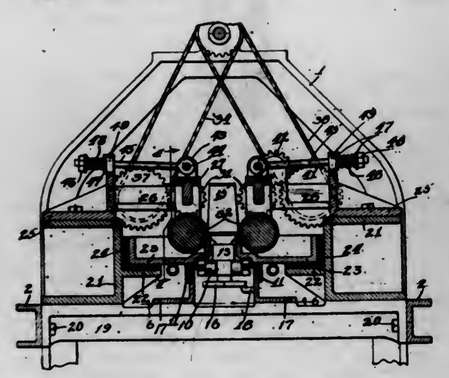


1. A confection making apparatus including a movable mold, means for supplying the same with a charge of flowing shell forming material less than the capacity of the mold upwardly through the opening in the base thereof, means receivable in and movable with the mold for a portion of its travel for forcibly distributing the supplied charge over the inner wall of the mold to form a hollow shell thereof within the mold, means for filling the shell, means for closing the opening therein, and means for receiving the confection as discharged from the mold.

19. A confection making apparatus comprising a vessel for containing confection forming material in a plastic condition, a mold, a conveyer for mounting and moving the mold, means for continuously removing confection forming material from the vessel, a plurality of receptacles into which said material is delivered, and within the path of movement of the mold, means for conducting the overflow material from said receptacles back to said vessel, and means associated with each of said receptacles for discharging a quantity of confection forming material into said mold.

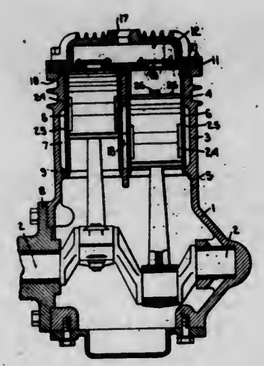
24. A confection making apparatus consisting of an endless conveyer, a mold bar carried thereby and provided with an opening therethrough, a mold positioned in said opening and open at its opposite ends and consisting of a plurality of separable sections adapted to contact at adjacent edges, a closure plate movable to and from one end of said mold for normally closing the same, a member associated with said mold sections for operating the same to open and close the mold, means for filling the mold with plastic confection forming material, and means in the path of movement of the conveyer for engaging said mold operating member to actuate the same to separate the mold sections to permit the discharge of the molded confection therefrom.

1,451,032. SOLDERING MACHINE. CHARLES STECHER, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 327,873. 1 Claim. (Cl. 113—78.)



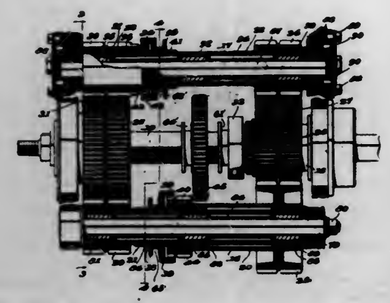
In a can soldering machine, a soldering mechanism comprising a solder tank, a support therefor, a bracket pivotally supported on said support above said tank, a soldering roller journalled in said bracket, means for rotating the roller, a rod pivotally connected to said bracket and slidable through said support, and a spring engaged around said rod for swinging said bracket to resiliently hold the roller in a soldering position against a can to be soldered.

1,451,033. COMPRESSOR. SAMUEL H. TODD, Detroit, Mich. Filed June 28, 1921. Serial No. 481,011. 3 Claims. (Cl. 230—34.)



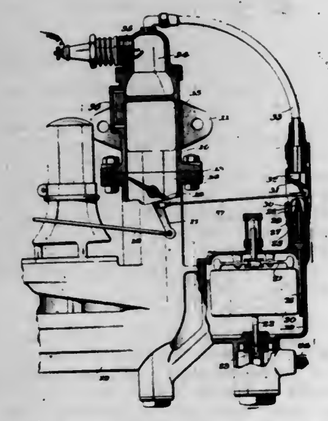
1. In a compressor of the reciprocating piston type, in combination, a cylinder having a head formed with an axial outlet port, a valve covering the upper end of said port, a piston having a flat end wall and ports traversing the same at one or more points between its center and circumference, a flat circular valve disc mounted upon such end wall and extending substantially to the edges of the same so as to fill the cylinder completely upon the end of the compression stroke, and a screw mounted in the center of the piston to hold the disc in place, said screw having a head which enters said outlet port at the end of such compression stroke.

1,451,034. MOTOR VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 27, 1921. Serial No. 473,095. 7 Claims. (Cl. 74—57.)



1. In a transmission mechanism, the combination of three shafts triangularly arranged, each of said shafts comprising two coaxial relatively rotatable members, a positive clutch device for each of said shafts so that the members of said shafts may be made to rotate together or independently, a sprocket on each member of said shafts, chains for said sprockets, a gear rigidly secured to a member of one shaft, and a sliding gear keyed to a member of another shaft and adapted to be mover into mesh with the first said gear.

1,451,035. HYDROCARBON MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 2, 1919. Serial No. 328,029. 10 Claims. (Cl. 123—122.)



1. The combination with the mixture conduit of a hydrocarbon motor, of a main carburetor for supplying mix-

ture thereto, an independent secondary carburetor connected to said conduit, means for igniting the mixture from said secondary carburetor before it reaches said conduit to thereby heat the main carburetor mixture in said mixture conduit, and interconnected throttle valves between the carburetors and said mixture conduit.

1,451,036. COMBINATION LOCK. WILLIAM T. BENHAM, Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky., a Corporation of Ohio. Filed July 11, 1921. Serial No. 483,675. 5 Claims. (Cl. 70—53.)



1. In a combination lock of the character described, in combination, an arbor, a rotatable tumbler, a pawl engaging said tumbler and adjustable in fixed position thereon for rotation therewith, a second pawl journaled directly on said arbor for rotation substantially concentrically with respect to said pawl and tumbler, a lost motion connection between said two pawls, and means adapted to engage and to rotate said second pawl to effect rotation of said tumbler.

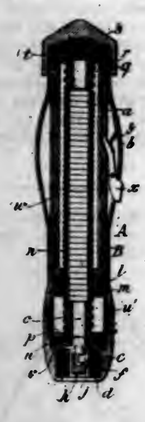
1,451,037. VALVE. WILLIAM N. BLANCHARD, East St. Louis, Ill. Filed Jan. 8, 1921. Serial No. 436,003. 1 Claim. (Cl. 284—18.)



A valve comprising a valve-casing consisting of a pipe nipple reamed on its inner surface and countersunk at one end to form a valve-seat, said casing being threaded at each end and provided with coupling members, a valve slidably mounted within said casing comprising an upset closed head and an integral valve stem, said valve stem being provided with a longitudinal bore throughout its greater length and terminating in a lateral bore, means for opening said valve comprising a brass nipple insertable in said valve casing and an external coupling member for operating said brass nipple to open the valve when the coupling is made.

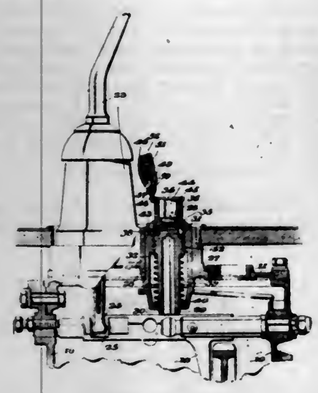
1,451,038. PRESSURE GAUGE. ROBERT FARIES, Williamsport, Pa., assignor to A. Schrader's Son, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 11, 1910. Serial No. 543,222. 36 Claims. (Cl. 73—111.)

1. A portable pressure gauge for pneumatic tires comprising a press-on seat for engaging a tire valve, a tire valve depressor adapted to unseat the tire valve and permit air from the tire to enter the gauge, means for indicating the pressure, and means for retaining said indicating means in indicating position after the gauge is removed from the tire.



26. A pressure gauge comprising a casing, a portion adapted to make a tight joint with a tire valve or the like, a tire valve depressor, a pressure responsive member, and an indicating sleeve telescoping with said casing.

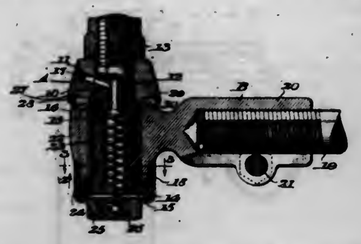
1,451,039. LOCK FOR MOTOR VEHICLES. ARA GILSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 1, 1920. Serial No. 385,465. 5 Claims. (Cl. 70—126.)



3. In a gear shifting mechanism, the combination with a plurality of longitudinally shiftable rods, of locking means therefor, comprising a two-part sleeve, a locking bolt mounted in the sleeve, means for locking and unlocking said bolt, and means securing the parts of the sleeve together and to the casing.

1,451,040. STEERING-ROD CONNECTION. EDWARD J. GULICK, Elkhart, Ind., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 30, 1917. Serial No. 204,662. 7 Claims. (Cl. 287—93.)

1. In a steering connection, in combination, a steering member, a laterally extending stud thereon, a second steering member having an eye surrounding and forming a bearing for said stud, said stud having means



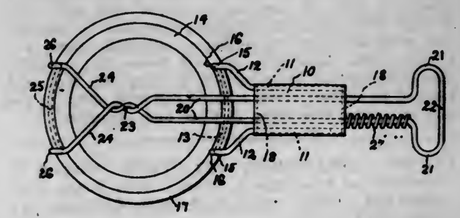
for distributing lubricant to said eye, a spring tending to separate the members, means limiting such separation, and packing between said members.

1,451,041. METHOD OF PRODUCING DISTINCTIVE ARTICLES. BURDON P. HYDE, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 15, 1919. Serial No. 344,990. 8 Claims. (Cl. 29—189.)



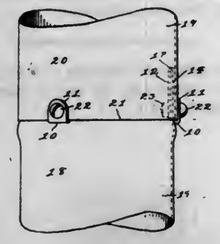
1. The herein described method of producing a distinctive article which consists in forming grooves in a block of metal, soldering wires in the grooves, rolling down the assembled block to the desired thickness, and forming the article therefrom.

1,451,042. PAN LIFTER. JAMES R. JOHNSON, Omaha, Nebr. Filed Sept. 6, 1921. Serial No. 498,681. 1 Claim. (Cl. 294—34.)



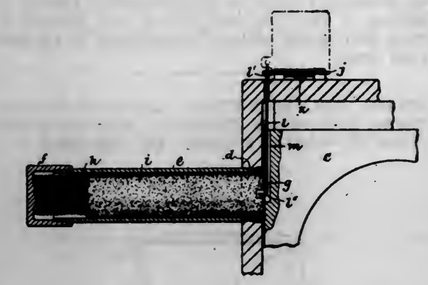
A pan or plate lifter, comprising a pair of jaw members arranged to grip the opposite edges of a pan and having handle portions composed of substantially parallel wire rod members extending beyond one of said jaw members and with the rod members of the remote jaw of greater length than the other rod members and terminating in a head, a connecting plate arranged across all of said rod members and having end flanges with openings therein through which said rod members pass, the shorter rod members terminating in said flanges of the plate and being secured thereto and the longer rod members being slidable through said flanges, and a spring carried by the longer rod members between said head and the plate for urging the latter and the adjacent jaw member toward the remote jaw member.

1,451,043. STOVEPIPE FASTENER. HARRY J. LE COMPTE, Oklahoma, Oklahoma. Filed Dec. 24, 1920. Serial No. 432,950. 1 Claim. (Cl. 285—185.)



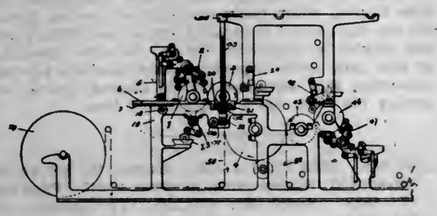
A stove pipe fastener comprising a metal strap shaped to form oppositely disposed open ended crotches arranged to receive the ends of telescoped stove pipe sections and removable and replacable means for extension through the fastener for drawing its elements to clamp the ends of the pipe sections.

1,451,044. DEVICE FOR DETECTING OVERHEATED BEARINGS. JOSEPH P. LEONARD, Paterson, N. J. Filed Nov. 5, 1921. Serial No. 513,103. 2 Claims. (Cl. 116—114.)



1. In combination, with a bearing, signal means normally moved to display position and having a catch, and a controller for the signal means including a holder on the bearing and a fusible member on the holder having the catch removably connected thereto and thereby resisting movement of the signal means.

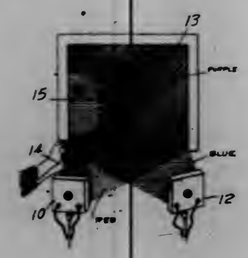
1,451,045. PRINTING PRESS. WILLIAM H. LONG, New York, N. Y. Filed Feb. 26, 1919. Serial No. 279,234. 21 Claims. (Cl. 101—137.)



1. A printing press including in combination an impression cylinder, an offset cylinder, a plate cylinder, and

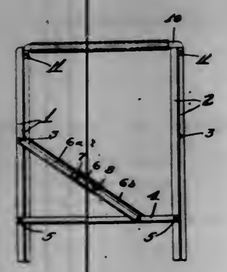
means for moving the offset cylinder into and out of printing relation with the impression cylinder and plate cylinder and for moving the plate cylinder into printing relation either with the impression cylinder or with the offset cylinder to print either directly from the plates or from the offset cylinder.

1,451,046. SCENIC EFFECT. WILLIAM MAXWELL, Revere, Mass. Filed Aug. 22, 1921. Serial No. 494,241. 2 Claims. (Cl. 88—1.)



1. The method of producing scenic effects consisting in commingling upon the same screen area differently colored lights from a plurality of illuminating elements and producing a figure on said illuminated area by interposing in the rays from one of said elements an opaque body having outlines corresponding in miniature to the figure.

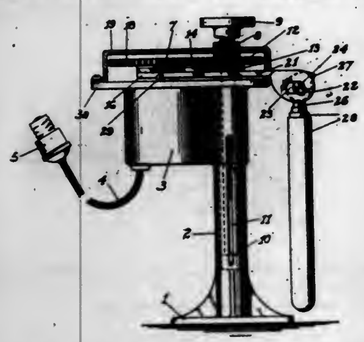
1,451,047. FOLDABLE STOOL. ROBERT P. MEAD and ROBERT B. THOMPSON, Chicago, Ill. Filed Apr. 8, 1921. Serial No. 459,657. 2 Claims. (Cl. 155—150.)



1. A foldable camp stool comprising two pair of crossed legs, each pair being pivoted together intermediate the ends thereof, upper transverse members having depending end lugs pivoted to opposite legs of the different pairs and adapted for supporting the seat above the upper ends of said legs, lower transverse brace members pivotally connecting said legs, and flexible diagonal braces connecting the lower brace members and legs.

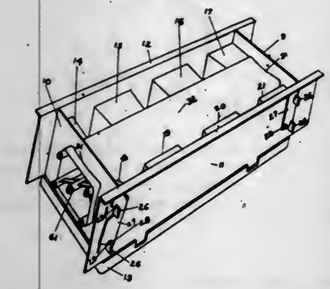
1,451,048. ELECTRIC JACK. HARVEY W. MOORE and CHARLES H. SCHUMACHER, Stockton, Calif. Filed Feb. 17, 1922. Serial No. 537,209. 13 Claims. (Cl. 254—103.)

1. A jack including a pedestal, a raising-stem mounted therein for vertical movement, electrically operated means for moving the stem, a handle for the jack permanently mounted thereon, and means controlled by



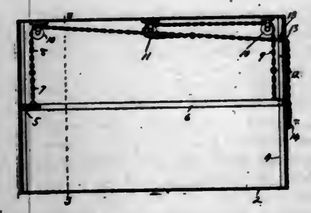
movement of the handle for causing the stem to be moved in either direction.

1,451,049. MECHANISM FOR MOLDING CONCRETE BLOCKS. DANIEL C. NEWMAN, Elyria, Ohio. Filed Mar. 17, 1922. Serial No. 544,420. 11 Claims. (Cl. 25—121.)



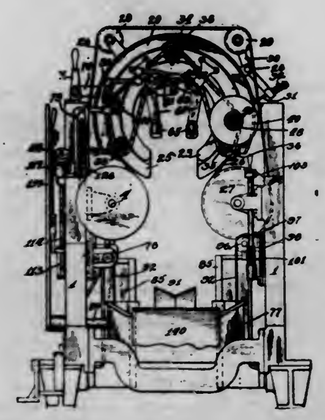
3. In a concrete block permanent mold mechanism, the combination with side and end walls, a bottom wall, a collapsible core, an opening in one of said end walls through which the said collapsible core may be inserted, said collapsible core comprising a collapsible frame, and a fabric tube placed over the said frame, and inwardly extending tapered cores carried by each side wall and adapted to contact at its reduced end with sides of the said collapsible core when in place and expanded.

1,451,050. ATTACHMENT FOR OVENS. WILLIAM B. PAINTER and ELIZABETH A. REEVES, River Rouge, Mich. Filed Mar. 6, 1922. Serial No. 541,292. 6 Claims. (Cl. 126—337.)



1. The combination with an oven, of guide members secured directly to the walls of said oven, a movable tray located in said oven and having slots formed therein engaging said guide members, flexible members secured to said tray, pulleys secured to one wall of said oven, flexible members secured to the flexible members aforesaid and trained over said pulleys, a pulley secured to one wall of said oven and supporting one of the last mentioned flexible members, and a flexible member secured to both of the last mentioned flexible members and extending through said oven.

1,451,051. WRAPPING AND UNWRAPPING MACHINE. FRANK M. PIERCE, Chicago, Ill., assignor to Pierce Wrapping Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1917. Serial No. 190,782. 25 Claims. (Cl. 242—6.)



1. In a machine of the class described, a rotatable shuttle, a spool rotatably mounted on the shuttle, mechanism operated by rotation of the shuttle for rotating the spool independently of the rotation of the shuttle and means for saturating the material unwound from the spool.

1,451,052. TREATMENT OF HYDROCARBONS. HELIODOR ROSTIN, Vallo, Norway. Filed Aug. 29, 1916. Serial No. 117,410. 2 Claims. (Cl. 196—26.)

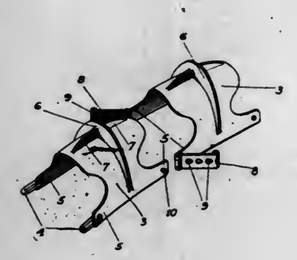
1. The method of hydrogenating unsaturated hydrocarbons, which comprises vaporizing the hydrocarbons and reacting upon said vapors with hydrogen sulphide in the presence of a metal capable of combining with the sulphide at a temperature of approximately 300° C., whereby nascent hydrogen will be liberated and combine with the hydrocarbons.

1,451,053. SIGNAL. JOHN A. RUAN, Beacon, Iowa. Filed Jan. 9, 1922. Serial No. 527,967. 3 Claims. (Cl. 116—51.)



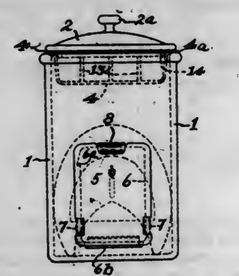
1. In a device of the class described, a base member; means for mounting the ends of the base member on a vehicle, signal arms pivoted at their lower ends to the base member; a link pivoted to the signal arms and located directly above the base member, whereby when the link is moved longitudinally, the link will come into contact with the base member, thereby limiting the lateral swinging movement of the signal arms; and means for operating the link.

1,451,054. NONSKID TIRE PROTECTOR. BATTISTA SANTINI, Roseville, Calif. Filed May 3, 1922. Serial No. 558,202. 1 Claim. (Cl. 152—14.)



A tire protector comprising a plurality of shoes connected together and forming a continuous structure adapted to be placed about a tire, two adjacent shoes being normally disconnected from each other, plates hinged to the free ends of one of said shoes for lateral swinging movement relative thereto and provided with orifices spaced lengthwise thereof and pins fixed to and projecting outwardly from the free ends of the other shoe and adapted to project through any at a time of said orifices.

1,451,055. DISPLAY CASE. LESTER MONROE SAWIN, Chicago, Ill. Filed June 11, 1920, Serial No. 388,262. Renewed Aug. 16, 1922. Serial No. 582,300. 6 Claims. (Cl. 215—6.)



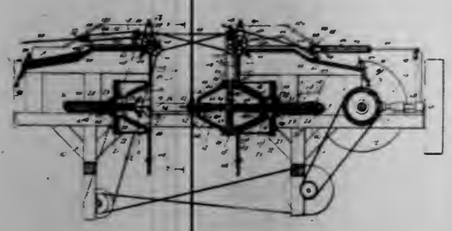
6. In a display case the combination of a glass container having an aperture near the bottom thereof and being open at the top, a door slidable vertically on the sides of said aperture, a removable diaphragm dividing said container into two compartments, a passageway in said diaphragm, an adjustable gate for said passageway and a cover for the top of said container.

1,451,056. IRRIGATION SIGNAL. WALTER R. SCHINDLER, Los Angeles, Calif. Filed June 1, 1921. Serial No. 474,288. 15 Claims. (Cl. 116—118.)



13. In a device of the character described, a standard adapted to be arranged at a fluid conduct, a signal carried by the standard, the signal comprising a stationary part carried in a vertical position by the standard, a movable part pivotally connected to the lower edge of the stationary part adapted to be set in a substantially vertical position at the stationary part and to be actuated by gravity to a vertical position extending from the lower edge of the stationary part, and means to positively prevent the movable part being moved to a truly vertical position at the stationary part, and float means for releasing the movable part of the signal from its set position.

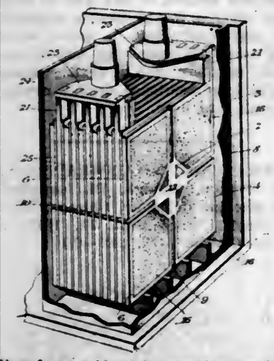
1,451,057. PAPER-CUPPING MACHINE. WALTER R. SCHINDLER, Los Angeles, Calif. Filed June 15, 1921. Serial No. 477,752. 15 Claims. (Cl. 93—60.)



1. In a machine for cupping paper, two cooperating die parts, one of the die parts including two relatively movable paper cupping portions normally spaced apart and adapted to fit together, and means for moving the die parts together so that said portions cooperate with the other die part to successively cup different portions of the paper in a single operation of the machine.

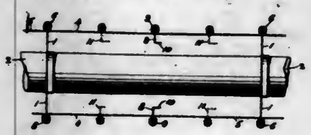
1,451,058. GRID PLATE FOR ELECTRIC CURRENT STORAGE BATTERIES. REASON P. SHATZKE, Denver, Colo. Filed Feb. 6, 1922. Serial No. 534,386. 6 Claims. (Cl. 204—29.)

1. A grid-plate, consisting of a thin square plate divided into four corner portions that are separated from each other by quarterly arranged radiating spaces, and that have a center stiffening member, and diagonally arranged



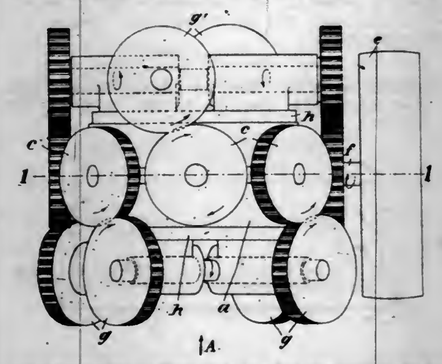
ribs extending from said center member to the corners of said plate.

1,451,059. WING AND LIKE MEMBER CONSTRUCTED OF METAL FOR AEROPLANE FLYING MACHINES AND OTHER AIRCRAFT. HUGH OSWALD SHORT, Rochester, England. Filed Sept. 11, 1922. Serial No. 587,561. 4 Claims. (Cl. 244—31.)



1. In wings and the like members constructed of sheet metal for aeroplane flying machines and other aircraft; the combination with a framework comprising metal ribs, and means for connecting together said ribs; of an external sheet metal covering, means for connecting said sheet metal covering to said ribs, said sheet metal covering having a division between each two of said ribs of said framework, the adjacent edges of said sheet metal covering at said division having flanges at right angles to its surface, a fin of sheet metal located between said flanges of said covering and extending a short distance into the interior of said wing, and means for connecting together the flanges of said sheet metal covering and the edge of said fin interposed between same.

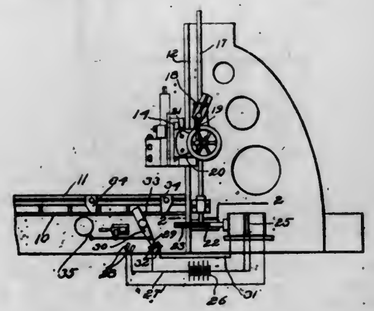
1,451,060. ROLLING MILL. HEINRICH STÜTING, Witten-on-the-Ruhr, Germany. Filed Apr. 8, 1922. Serial No. 550,860. 1 Claim. (Cl. 80—36.)



A rolling mill comprising in combination, a spindle housing, a plurality of substantially radially arranged

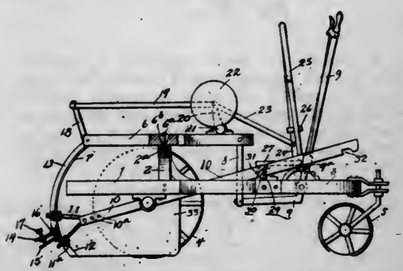
pinion shafts located in said housing, spur wheels on the outer ends of said shafts and a set of substantially radially arranged rolls on either side of said set of pinion shafts, alternate spur wheels meshing with rolls of one and the other set, respectively.

1,451,061. FEED MECHANISM FOR MACHINE TOOLS. ALFRED TROSCH, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed Oct. 15, 1919. Serial No. 330,816. 3 Claims. (Cl. 90—49.)



1. A planer, comprising a work table, a tool holder mounted for movement with respect thereto, a solenoid connected for control by the movement of said work table, and having a movable core, means for imparting feed movement to the tool holder, and a connection from said core to said means to actuate the same.

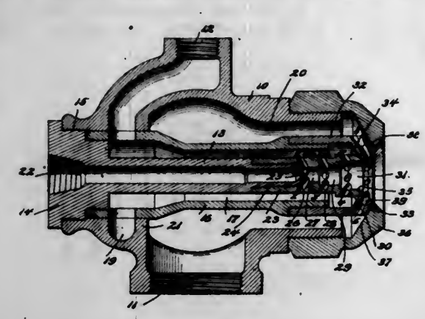
1,451,062. EARTH SCRAPER. GEORGE L. WILCOX, Escalon, Calif. Filed Feb. 18, 1921. Serial No. 446,104. 21 Claims. (Cl. 37—153.)



1. In an earth scraper, an end gate hinged along its upper edge and mechanical means mounted in connection with the gate and acting thereon for raising or lowering the same in a substantially vertical plane and for independently opening said end gate to the rear.

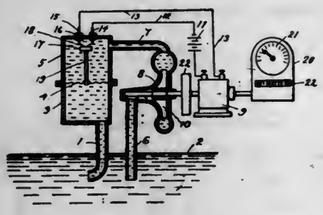
1,451,063. BURNER. ALFRED R. ANTHONY, Detroit, Mich. Filed Nov. 12, 1920. Serial No. 423,707. 16 Claims. (Cl. 158—76.)

1. An oil burner including in combination, a body, a fuel tube therein said tube having a chamber at its forward end open at the tip of the tube and said tube also having an aperture for discharging a jet into said chamber, the wall of the fuel tube surrounding the chamber having a plurality of series of holes therethrough spaced along the length of the chamber, each series comprising a plurality of holes spaced circumferentially of the wall one series being inclined forwardly toward the axis of the



chamber and one series being inclined in a circumferential direction to discharge the air into the chamber with a whirling motion.

1,451,064. SPEED INDICATOR. LEONID A. DUNAJEFF, New York, N. Y. Filed Jan. 31, 1922. Serial No. 533,069. 8 Claims. (Cl. 73—167.)



1. In a speed indicator, the combination with two chambers, a yielding separator between said chambers, a Pitot tube connected with one of said chambers, a balancing tube connected with the other chamber, a rotating device adapted to produce a pressure in said second chamber equivalent to the pressure in said Pitot tube, an indicating device in a cooperative relation to said pressure producing device, and means to regulate the rotation of said pressure producing device, said means being controlled by said yielding separator.

1,451,065. PHOTOGRAPHIC-DEVELOPING APPARATUS AND METHOD. GLEN M. DYE, Minneapolis, Minn. Filed Sept. 13, 1919. Serial No. 323,593. 16 Claims. (Cl. 95—90.5.)



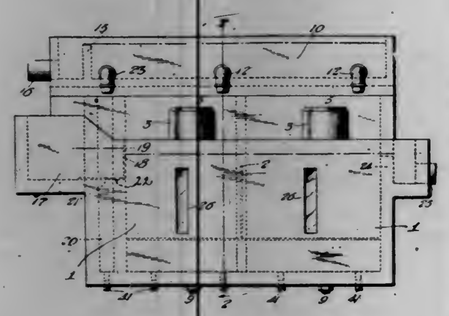
1. In a photographic developing apparatus, a carrier for the films arranged to carry the films past developing and fixing zones, and spraying means in said developing and fixing zones operative to spray the sensitized surfaces of the films, respectively, with the developing and fixing liquids.

1,451,066. METHOD AND DEVICE FOR HANDLING PHOTOGRAPHIC FILMS. GLEN M. DYE, Minneapolis, Minn. Original application filed May 5, 1919, Serial No. 294,673. Divided and this application filed May 27, 1921. Serial No. 473,027. 12 Claims. (Cl. 95—100.)



1. A device of the kind described comprising a supporting bar; and a plurality of flat sheet metal holder plates having perforations through which said bar is passed, said perforations being formed by partly cutting lips from said plates and turning the same into horizontal positions so that they are adapted to rest on said bar.

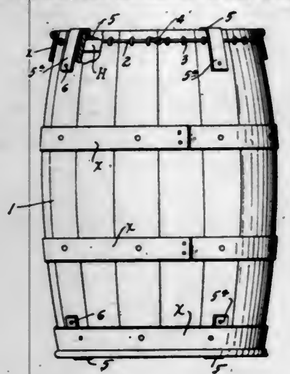
1,451,067. HYDRAULIC CLASSIFIER. ROBERT BAXTER ELDER, Denver, Colo., assignor to Andrew Darwin Elder, Denver, Colo. Filed Dec. 6, 1918. Serial No. 265,614. 28 Claims. (Cl. 83—82.)



1. In a classifier having an outlet for the discharge of pulp, means for varying the capacity of the outlet controlled by the density of the pulp, said means comprising a gate or valve, a float for operating the gate or valve and balanced between a column of water and a column of pulp in the container, said valve being a hollow cylindrical body vertical or nearly so, open at top and bottom, integrally connected with the float and of smaller cross section than the float.

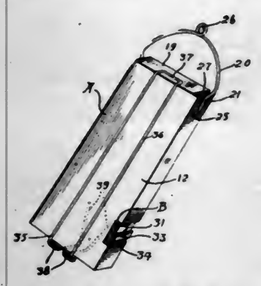
1,451,068. BARREL. CHARLES O. EWELL, Dyer, Tenn. Filed May 6, 1922. Serial No. 558,928. 2 Claims. (Cl. 217—89.)

1. As an article of manufacture, a knockdown barrel comprising a plurality of staves, a wire connecting the staves at each end portion thereof, hoops for holding the staves, retaining hoops co-acting with the staves, each of said staves having its longitudinal marginal portion disposed on outward curves, the adjacent marginal portions of the staves overlapping when the staves are in flattened relation, the extremities of the wires being free



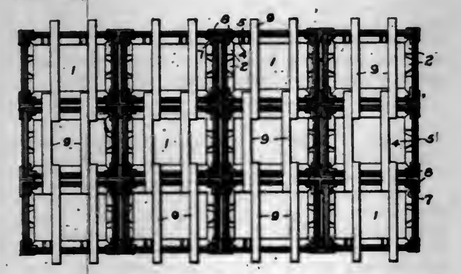
when the staves are in flattened relation, said extremities being directly connected one with the other when the staves are assembled to form the barrel.

1,451,069. SEAL CASE AND EJECTOR. JOHN A. HANSON, Harwood, N. Dak. Filed Apr. 17, 1920. Serial No. 374,632. 6 Claims. (Cl. 206—39.)



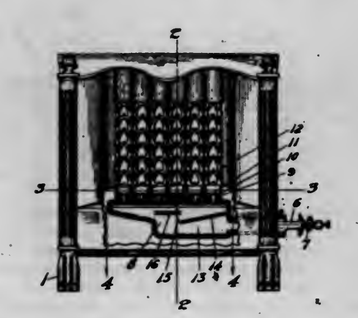
1. A case for car seals comprising a sectional body having an exit opening formed therein, the body being arranged to receive car seals, an ejector plate slidably mounted in the body, a resilient bail arranged to hold the sections of the body together at one end thereof, and a spring clip arranged to hold the sections of the body together at the opposite end thereof.

1,451,070. MEANS FOR SHIPPING FRUIT, ETC. FLOYD A. HIGERD, Bellevue, Pa., and GEORGE BECKER, Silver Creek, N. Y., assignors to H. J. Heinz Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 17, 1922. Serial No. 553,655. 4 Claims. (Cl. 217—40.)



1. A container for fragile articles having side walls formed of strips of sheet material, bound at the rim by a transversely extending band, the strips of sheet material extending interruptedly beyond and above the band and forming with the band a notched rim.

1,451,071. STOVE. CARL H. HOFFSTETTER, Erie, Pa., assignor to Odin Stove Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,796. 5 Claims. (Cl. 158—104.)



1. A burner having a burner chamber, the chamber having a mixture inlet passage at one end extending from the burner and in alinement therewith; and a baffle over the inlet end extending into the chamber forming an upturned passage intermediate the ends of the chamber.

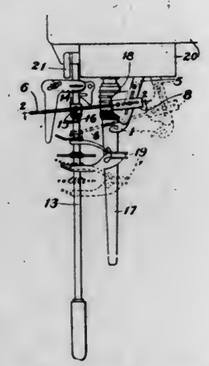
1,451,072. BURNER. CARL H. HOFFSTETTER, Erie, Pa., assignor to Odin Stove Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,798. 5 Claims. (Cl. 158—104.)



5. A burner having a burner chamber with jet openings leading therefrom and with a depression at the inlet end to which the inlet leads; a baffle extending from the end of the chamber over the depression and forming an upturned passage nearer the inlet end of the burner than the center of the burner; a second baffle over the upturned passage; and a shoulder at the bottom of the chamber in advance of the opening between the second baffle and the wall of the chamber at the end of the depression.

1,451,073. BUNCH BUILDER. ERNEST KORTEN, Sunbury, Pa., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1921. Serial No. 505,062. 10 Claims. (Cl. 242—27.)

1. In a machine of the class described, the combination with a bunch builder provided with a thread guide, of a traverse bar associated with said bunch builder, bobbin-supporting means contiguous to said bunch builder, and means cooperating with said thread guide and said traverse bar whereby movement of the traverse bar will



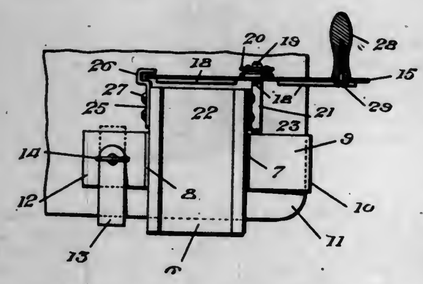
be imparted to the thread guide for affecting its position with respect to said bobbin-supporting means.

1,451,074. NONSKIDDING TIRE SHOE. JOSEPH ARTHUR LE BLANC, Salem, Mass. Filed Mar. 15, 1922. Serial No. 543,943. 1 Claim. (Cl. 152—16.)



A non-skidding shoe for pneumatic tires comprising a series of traversely curved, rectangular plates spaced from each other throughout their entire length, the forward and rear edges of the plates being parallel to each other, the opposite ends of each plate extending tangential to the curved middle portion of the plate and the plates having a width such that when in place upon a tire they will extend beyond the largest diameter thereof, chain links connecting the like ends of the plates to each other, and a detachable link connecting the end plates of the shoe.

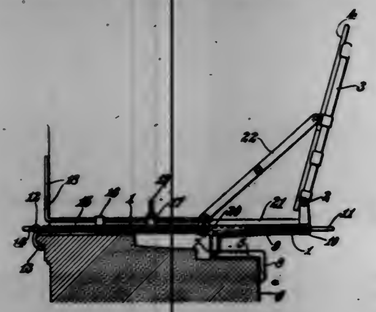
1,451,075. VEGETABLE SLICER. CASWELL L. LEONARD, Corinth, Miss. Filed Aug. 17, 1920. Serial No. 404,182. 1 Claim. (Cl. 146—11.)



A slicer comprising a channel-shaped holder, a cutter disk having cutter blades movable across one end of the

holder, a bearing at one side of the holder supporting said disk for rotation, a guide member at the opposite side of the holder engaging the edge of the disk, and clamping members carried by the opposite sides of the holder, said bearing and guide member having slotted portions engaging said clamping members for the longitudinal adjustment of said bearing, disk and guide member when the clamping members are loosened.

1,451,076. WINDOW-CLEANER'S SEAT. LOUIS H. LOEPPE, St. Louis, Mo. Filed July 18, 1921. Serial No. 485,662. 5 Claims. (Cl. 304—24.)



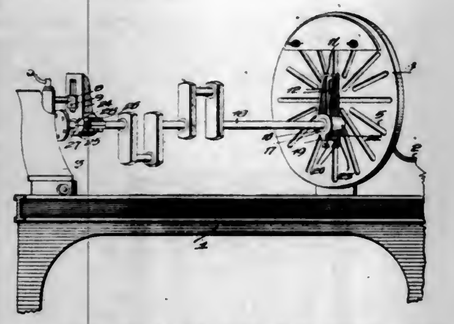
1. A window seat, comprising, a frame adapted to support the seat, a yielding abutment mounted on said frame and adapted to engage the outer sill, securing means adapted to engage the inner sill, and means for yieldingly retaining said securing means in such engagement.

1,451,077. WINDOW. EDMUND H. LUNKEN, Cincinnati, Ohio. Filed Nov. 15, 1918. Serial No. 262,647. 3 Claims. (Cl. 20—52.1.)



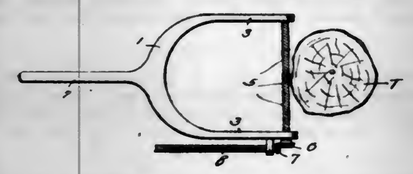
1, In a pocket window construction, a window frame with sashes therefor, and a wall pocket adjacent the window opening for the reception of the sashes, and a sheet metal strip forming a continuation of one of the side stops, clamped between the edges of the stile and the inside pocket wall, extending into the pocket and with its outer edge curved over to form a brake and guide for the sides of the lower sash when raised into the pocket.

1,451,078. ADJUSTABLE HOLDER FOR TURNING CRANK SHAFTS. WILLIAM L. MANTHA, Bayport, N. Y. Filed Mar. 4, 1922. Serial No. 541,140. 6 Claims. (Cl. 82—9.)



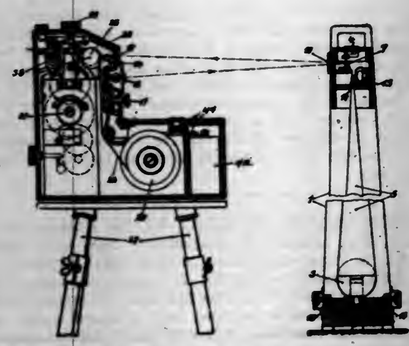
1. A holder for use on crank shafts having a longitudinal slot provided with closed ends, a body having a reduced shoulder slidably mounted within said slot, an externally threaded bolt passing through said shoulder, the ends of said bolt being anchored within said holder, whereby upon the rotation of said bolt, said shoulder will be moved to the anchored ends of said bolt holding the same against displacement.

1,451,079. LUMBER-SAWING IMPLEMENT. JEFFERSON H. MILLSAPS, Chicago, Ill. Filed June 16, 1921. Serial No. 477,960. 2 Claims. (Cl. 144—34.)



1. In a sawing implement of the class described, a wishbone-shaped holder, a shaft rotatably mounted on the holder, a mandrel mounted on said shaft, said mandrel being formed of removable sections having slanting abutting end faces, a flexible driving shaft operatively connected with the rotatable shaft, and power means for driving said rotatable shaft.

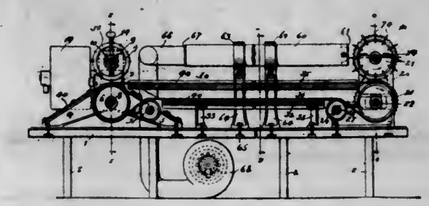
1,451,080. FIELD SEISMOGRAPH. LUDGER MINTROP, Hanover, Germany. Filed May 15, 1922. Serial No. 561,226. 11 Claims. (Cl. 234—1.)



1. Recording means for terrestrial vibrations, comprising in combination, a stationarily secured spring, a weight

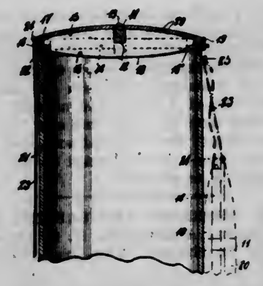
yieldingly supported on said spring, a long comparatively light-weighted lever secured to said weight, a rotatable mirror, operatively associated with said lever, a source of light operatively related to said mirror, and a movable light sensitive web adapted to cooperate with said mirror, and to be influenced by the rays reflected from said mirror.

1,451,081. HONEYCOMB-CANDY CUTTING AND COOLING MACHINE. EDWARD J. MOMENEE, Lima, Ohio. Filed Aug. 10, 1920. Serial No. 402,542. 1 Claim. (Cl. 107—4.)



In a machine for making candy of the type described having an endless belt conveyer supported by a pulley which is driven thereby, a breaker wheel carrying a plurality of flexible peripheral flaps, said breaker wheel being mounted perpendicularly above the conveyer driven pulley so that the flaps will only contact the candy while it is still on the flat part of the conveyer and means for driving said breaker wheel from the said driven pulley.

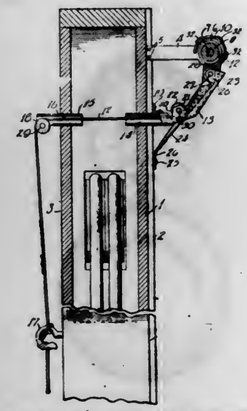
1,451,082. REMOVABLE SILO COVER. JOHN S. NEHER, North Manchester, Ind. Filed Mar. 17, 1922. Serial No. 544,549. 2 Claims. (Cl. 217—76.)



1. A top for silos comprising a frame of double convex construction, and a cover portion on said frame substantially as described.

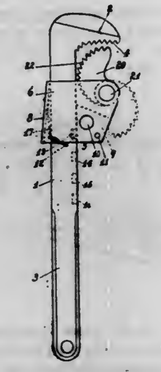
1,451,083. AWNING CONSTRUCTION. WILLIAM F. O'DONNELL and CHANCY SEYBOLD, Chicago, Ill. Filed July 1, 1921. Serial No. 481,860. 4 Claims. (Cl. 156—44.)

2. In a building, the combination with a frame for an aperture, of an awning construction, said awning construction comprising a flexible fabric, a roller for the flexible fabric, means secured to the outer face of the frame for rotatably supporting the roller, a cable secured to the roller, combination guiding and housing means extending from said roller and being projected transversely through the frame for conducting the operating cable from the outer face of the frame through the frame to the inner face thereof, and means for securing the outer end of



the guiding and housing means in adjusted position relative to the adjacent end of the roller.

1,451,084. PIPE WRENCH. ERNEST AARON PETERSON, Oakland, Calif. Filed Feb. 9, 1922. Serial No. 535,284. 1 Claim. (Cl. 81—97.)



A pipe wrench including a shank, a fixed jaw on one end of said shank formed with a concaved toothed engaging surface, a handle on the other end of said shank, said shank having a plurality of sockets along its forward edge, a slide on said shank, a stud on said slide for engaging any of said sockets, the rear wall of said slide inclining from the back edge of said shank opposite said stud so that said slide may be swung to cause said stud to engage or disengage any of said sockets, a spring between said back wall of said slide and the back edge of said shank for normally holding said stud in one of said sockets, and a jaw pivoted in said slide formed with a convexed tooth engaging surface cooperating with the concaved toothed engaging surface of said fixed jaw.

1,451,085. TOY. JOSEPH POPPER, Brooklyn, N. Y., assignor of one-half, by direct and mesne assignments, to Baird-Daniels Co., Inc., New York, N. Y., a Corporation of New York, and one-half to Ruby H. Popper, Brooklyn, N. Y. Filed July 7, 1921. Serial No. 482,963. 7 Claims. (Cl. 46—40.)

1. A toy comprising an element formed with eye sockets and having the general appearance of a head

of a person or animal, a pair of loosely mounted balls representing eyes arranged in said eye sockets, said element



being provided with a passage-way extending to said eye sockets, and a tube for directing a stream of air into said passage-way for moving said balls.

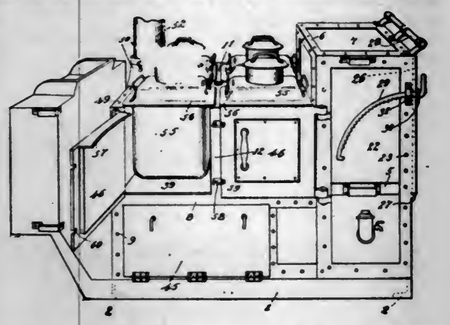
1,451,086. METHOD OF MAKING AND EXHIBITING MOVING PICTURES. ISAAC T. PURCELL, Wakeeney, Kans. Filed Nov. 2, 1921. Serial No. 512,281. 1 Claim. (Cl. 88—16.2.)



In an apparatus of the class described, the combination of a traveling support adapted to pass along a desired course, of a sound recording machine and a motion picture camera in parallel position upon and carried by said traveling support contiguous to each other and pointing in the same direction for photographing and recording an object or scene simultaneously, parallel driving mechanisms projecting rearwardly from said sound recording machine and motion picture camera, a belt connecting said driving mechanisms, a power shaft to one side of said sound recording machine, and a belt in parallelism with said first-mentioned belt and connecting said power shaft and the driving mechanism of the sound recording machine, substantially as shown and described.

1,451,087. ARMY FIELD KITCHEN. HUBBARD W. STEINER, CALEB W. SHIPLEY, and JAMES MORRISON, Cincinnati, Ohio, assignors to The Trailmobile Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 14, 1921. Serial No. 461,209. 11 Claims. (Cl. 126—276.)

1. In an army field kitchen, a framework comprising base pieces forming an integral part of the wagon body of a vehicle, upright pieces and cross pieces to form vertical frames lengthwise and cross-wise above said base, said pieces welded together into a unit, a cruciform member set into said assembly and welded together with it, and plates riveted into the frame formed by the base,



upright and cross pieces to form an enclosed wagon body to serve as a cooking stove.

1,451,088. BRACE FOR TRACTORS. ROBERT LEE TOLSON, Memphis, Tenn., assignor to John W. Farley, trustee, Memphis, Tenn. Filed Nov. 23, 1921. Serial No 517,288. 1 Claim. (Cl. 280—112.)

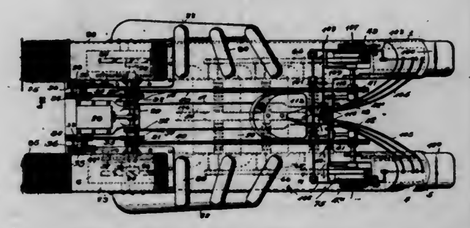
In a tractor, a body, an inverted U-shaped axle, a horizontal pivot connecting the axle from the body at each V-shaped bracket extending down from the body at each side, said bracket being firmly bolted to the tracter-body framework, and connections between the axle and the brackets, consisting of a radius rod at each side of the tractor extending from the lower end of a bracket to the corresponding part of the U-shaped axle, the rods being connected to the axle and the bracket by ball and socket joints, substantially as set forth.

1,451,089. GRINDING AND LAPPING MACHINE. FLOYD C. WEAVER, Washington, D. C. Filed May 10, 1922. Serial No. 559,882. 7 Claims. (Cl. 51—56.)

1. In a grinding and lapping machine of the character described, the combination of a work carrying plate,

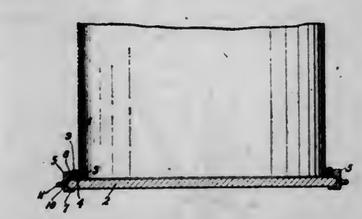
means for supporting said work carrying plate, a lapping plate positioned above said work carrying plate, a pin engaging said lapping plate, a bar connected to said pin, means for oscillating said bar, driving means connected to the rear end of said bar, whereby said lapping plate may be moved in a variable manner over said work carrying plate, and means for bodily advancing or retracting said driving means, whereby said lapping plate may be caused to work only upon certain portions of the work carrying plate, as and for the purposes set forth.

1,451,090. COTTON HARVESTER. JOHN J. WILSON, Columbia, Tenn. Filed Apr. 2, 1920. Serial No. 370,789. 17 Claims. (Cl. 56—14.)



6. In a cotton harvester, a frame, a picker comprising a casing extending transversely of the direction of travel of the harvester, said casing having a plurality of narrow openings in its front face for the admission of cotton fiber and an air conduit extending through said casing, rotary toothed disks journalled within the casing in planes intersecting said openings lengthwise, the teeth of said disks being disposed within said openings and adapted to draw cotton fiber through said openings, a doffer adapted to strip the fiber from the disks and to discharge it into the air conduit, and means for creating an air current in said air conduit for removing the fiber.

1,451,091. CLAMP. GIBBONS J. DENNIS, Kiefer, Okla. Filed May 27, 1922. Serial No. 564,217. 2 Claims. (Cl. 220—5.)

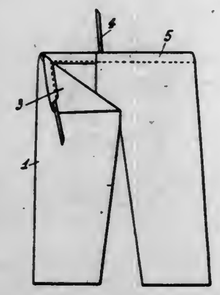


1. A tank comprising a bottom, side walls having flanges at their lower ends, arc-shaped clamping members, each having a groove therein for receiving a part of the bottom and a recess above the groove for receiving the flange and clamping bolts for holding the parts in assembled position.

1,451,092. CUMARON PAINT. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Jan. 4, 1919. Serial No. 269,664. 4 Claims. (Cl. 134—39.)

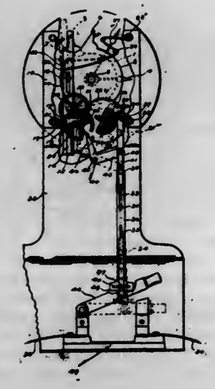
4. A paint comprising a pigment, cumaron resin of melting point about 90° C., a paraffin hydrocarbon solvent and a liquid aromatic hydrocarbon.

1,451,093. PYJAMAS. JAMES C. EWING, Oakland, Calif. Filed Jan. 31, 1921. Serial No. 441,255. 1 Claim. (Cl. 2—122.)



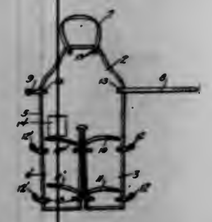
In a pyjamas trousers having a fly extending to the upper edge of said trousers, a hem around the waist and on the inside of said trousers, a draw string extending through said hem, the ends of the hem being located at a distance from the top of the fly so that the ends of the draw string may be tied together on the inside of the garment.

1,451,094. TIME SWITCH. ELMER E. FREY, Long Beach, Calif. Filed May 17, 1920. Serial No. 382,679. 2 Claims. (Cl. 200—40.)



1. An automatic switch consisting, in combination with an alarm clock, the gear train for operating same and the hour hand carrying shaft, of two fingered disks frictionally mounted on said shaft, a fulcrumed bar provided with a pin disposed in the path of said fingered disks, said bar formed with means to lock the gear train against revolution and with means actuable by members on one of the gears of the train to operate said bar when the train is released by engagement of the fingered disks with the bar, and cause the pin on said bar to be lifted above and behind the fingers of said disks, a stud on one of the gears of the train, a switch operating lever having its upper end disposed in the path of said stud and arranged to close the switch when the gears are released, and a resetting and switch opening lever pivotally connected to said switch lever and having one end thereof in line with the travel of said stud.

1,451,095. APRON. GUSTAVE F. GREENE, South Manchester, Conn. Filed Sept. 3, 1921. Serial No. 498,248. 1 Claim. (Cl. 2—54.)



A device of the class described for human wear, comprising a body portion in one piece, and of rubberized textile material having a loop to fit around the neck of the wearer and also a strap by which the body portion can be detachably held to the body of the wearer, said body portion also having separate leg portions to fit around the front portions and sides of the legs of the wearer, each leg portion having straps to fit around the back side of the legs of the wearer, below the crotch, said leg portions having additional straps near the lower ends thereof, the garment having a hem throughout the entire extension of the same on the inner face and along the edge thereof, which is adhesively held in position, and eyelets for fastening the straps to the body portion.

1,451,096. TELESCOPE. OSCAR A. HAGEN, Fargo, N. Dak. Filed July 23, 1920. Serial No. 398,355. 2 Claims. (Cl. 88—1.)

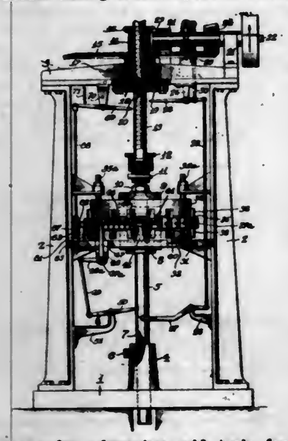


1. A device of the class described comprising a tapered body formed of two sections, a bayonet joint detachably securing said sections together, an eye piece at the small end of the tapered body and a lens at the large end thereof, a handle provided on the exterior of the body and a flash light within the body, means for operating the switch of the flash light from the exterior of the body consisting of conductors passing through an opening formed in the small end of the device and a plug arranged in said body to which the wires are connected, a plurality of rings arranged on the device to prevent the reflection of the light upon the smooth inner walls thereof.

1,451,097. GEAR-CUTTING MACHINE. WILLIAM HENRY KITTO, Jr., and STANLEY B. MOILES, Detroit, Mich.; said Kitto assignor to said Moiles. Filed Mar. 29, 1920. Serial No. 369,454. 12 Claims. (Cl. 90—8.)

1. Means for operating on the periphery of a blank or blanks, consisting of a reciprocatory holder for a blank or superposed blanks, circumferentially disposed cutters about said holder, means for moving said reciprocatory holder at different speeds so that said blanks are carried into engagement with said cutters, means at one side of said holder controlling the speeds of said reciprocatory holder, and means at the opposite side of said holder controlled by movement of said holder for advancing and retracting said cutters.

5. A multi-blank cutting machine comprising a work holder having a slow speed work stroke and a fast speed non-work stroke, a multiplicity of tools in the path of the work holder during a slow speed work stroke, thereof, and means for advancing said tools for fresh cuts during a fast speed non-work stroke of said work holder.



1,451,098. OPHTHALMIC MOUNTING. WILLIAM E. MCDONELL, Rochester, N. Y., assignor to Shur-On Optical Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 10, 1922. Serial No. 559,838. 7 Claims. (Cl. 88—48.)



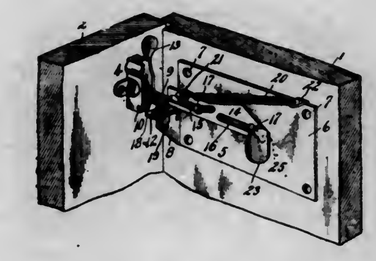
1. In an ophthalmic mounting, the combination with an ophthalmic frame formed of non-metallic material and having two rings with lens receiving grooves and a bridge connecting said rings and provided with pockets communicating with said grooves, of nose rests having supporting arms provided with anchoring portions extending into said pockets.

1,451,099. AMALGAMATOR. WILLIAM CORDICE MCLAUGHLIN, Oakland, Calif. Filed Feb. 15, 1922. Serial No. 536,674. 4 Claims. (Cl. 83—67.)



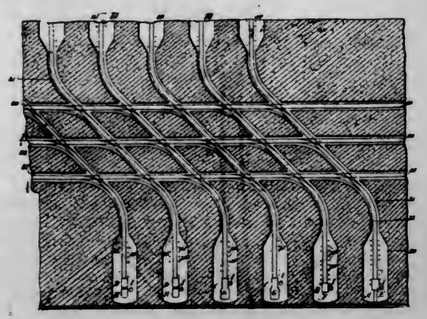
1. A gold separator including a plurality of superimposed communicating drums, a chute communicating with the uppermost drum, a sump communicating with the lowermost drum, a coarse screen extending vertically through said drums and said sump, and a plurality of fine concentric screens of different diameters secured to said coarse screen in each of said drums.

1,451,100. LOCK FOR MILK CABINETS. LEO O. MILLER, Detroit, Mich. Filed Apr. 10, 1922. Serial No. 550,971. 11 Claims. (Cl. 292—128.)



1. A device of the character described comprising a movable member adapted to be secured to a closure, a fixed member adapted to be secured to the wall of a receptacle to be engaged by the member on the closure and lock the closure in closed position, and means operable from within the receptacle to disengage said member on the closure from said fixed member and to be engaged by said member on the closure to hold said closure in closed position and permit the closure to be opened from the outside.

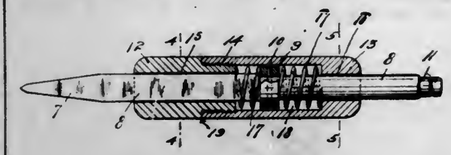
1,451,101. APPARATUS FOR MINING. EDMUND C. MORGAN, Richmond Hill, N. Y. Filed Sept. 16, 1918. Serial No. 254,266. 40 Claims. (Cl. 104—5.)



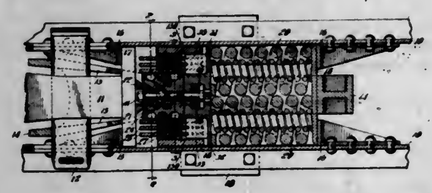
1. In mining apparatus, the combination with a pair of trucks, of means for coupling said trucks together, means adjustable in elevation and carried at one end of the forward truck in position to guide track sections onto and off said forward truck, and rope-winding mechanism comprising a rope adapted to have its free end connected to a track section while being guided onto or off said forward truck.

1,451,102. NONVIBRATORY TOOL GUIDE. CHARLES C. NEALE, Toledo, Ohio, assignor of one-half to Philip T. Ulmer, St. Paul, Minn. Filed Apr. 17, 1922. Serial No. 554,280. 3 Claims. (Cl. 145—61.)

1. A vibratory tool having a sleeve-like hand-piece with closed ends, said hand-piece being transversely divided and the sections thereof detachably connected, said tool being slidably mounted in apertures in the ends of said hand piece and held for common rotation therewith, and opposing springs in the hand-piece arranged to be compressed between an abutment on the tool and the closed ends of said hand-piece.

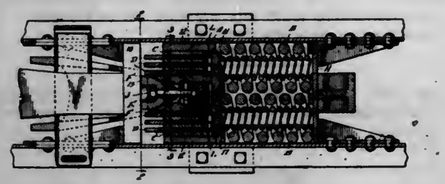


1,451,103. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 8, 1921, Serial No. 499,209. Renewed Feb. 16, 1923. 5 Claims. (Cl. 213—33.)



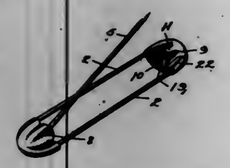
1. In a friction shock absorbing mechanism, having friction, spring and wedging elements, including anti-friction members associated with said wedging elements, the combination therewith of a spring follower having a pair of flanges embracing the wedging elements and forming stops for the ends of the anti friction rollers.

1,451,104. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 17, 1921, Serial No. 508,336. Renewed Feb. 16, 1923. 3 Claims. (Cl. 213—33.)



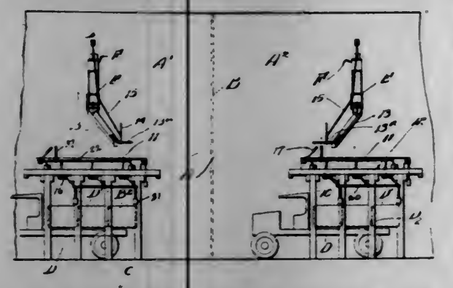
1. In a friction shock absorbing mechanism, the combination with a follower-acting member; of a plurality of relatively stationary friction plates anchored to said member against movement longitudinally thereof but responsive to laterally applied pressure; a plurality of relatively movable friction plates intercalated with said stationary plates; the inner ends of said movable plates terminating intermediate the ends of the stationary plates; lateral-pressure-creating means cooperable with said intercalated plates; a spring resistance; a spring follower interposed between said resistance and the inner ends of the intercallated plates; and a plurality of independent column-pressure-transmitting elements interposed between the inner ends of said movable plates and said spring follower.

1,451,105. SAFETY PIN. STEPHEN OLOF, Denver, Colo., assignor of one-third to Austin L. Cunningham, St. Paul, Minn. Filed Feb. 16, 1920, Serial No. 359,144. Renewed July 6, 1922. Serial No. 573,190. 9 Claims. (Cl. 24—161.)



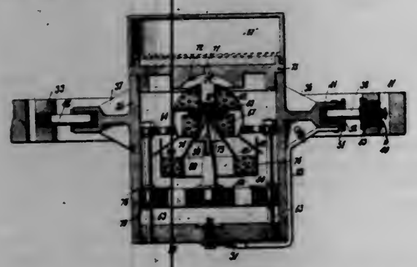
1. In a safety-pin, a frame comprising two side-bars and a resilient pin arranged between said side-bars and hinged to the frame by a coil, in combination with a housing at one end of the frame and comprising a catch for the pin-point, the bottom of said housing being dished away from the frame.

1,451,106. APPARATUS FOR MEASURING MATERIALS IN CONCRETE CONSTRUCTION. HERMAN D. PALMER and JOHN W. BAHEL, Hartford, Wis., assignors to The Kissel Motor Car Company, Hartford, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1921. Serial No. 508,409. 13 Claims. (Cl. 214—41.)



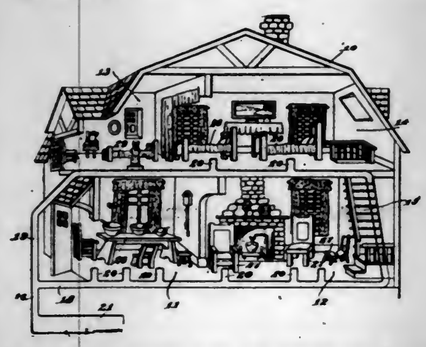
1. In an apparatus of the character described, the combination of a supporting structure having a plurality of measuring units, a plurality of hinged counterbalanced doors normally closing the lower ends of said units, means for locking said doors in closed position, and means for releasing the doors for effecting the discharge of the material from said units into separate compartments of a vehicle body positioned therebeneath.

1,451,107. SUBMARINE MINE. WAYNE F. PALMER, Washington, D. C. Filed May 13, 1920. Serial No. 381,286. 13 Claims. (Cl. 102—3.)



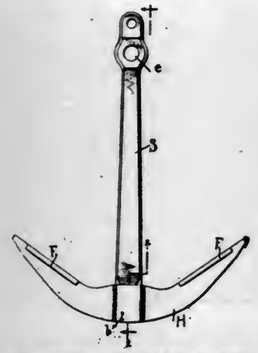
1. In a submarine mine, in combination, a main casing having a diaphragm subjected to hydraulic pressure on launching and means for cutting out the action of hydraulic pressure on said diaphragm after the mine has been submerged a predetermined time.

1,451,108. GAME. GEORGIA A. POST, Forest Hills, N. Y. Filed Mar. 24, 1921. Serial No. 455,277. 2 Claims. (Cl. 35—12.)



1. In an educational game, the combination of a pictorial illustration of a scene from a story, suitable fittings in said illustration to visually set forth the scene from the story, a path leading through the scene, a plurality of sidings leading from said path, characters to simulate the characters in the story, and means for retaining said characters in the path.

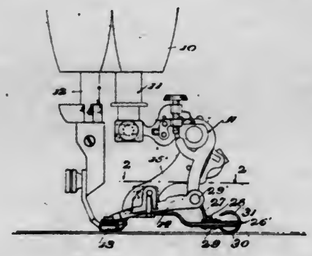
1,451,109. ANCHOR. NORRIS D. POWELL, Chester, Pa., assignor, by mesne assignments, to Baldt Anchor & Chain Company, a Corporation of Pennsylvania. Filed Oct. 4, 1919, Serial No. 328,445. Renewed Dec. 1, 1922. 2 Claims. (Cl. 114—207.)



1. Anchor structure comprising a head provided with an opening therein, and a separate shank having its lower end inserted in the opening in the head and having a depression into which the head at its opening is fitted to rigidly connect the head and shank.

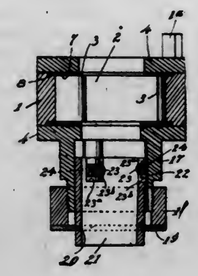
1,451,110. ATTACHMENT FOR GATHERERS ON SEWING MACHINES. HERBERT A. PULLIAM, Eustis, Fla., assignor of one-half to L. J. Taylor, Eustis, Fla. Filed June 10, 1921. Serial No. 476,435. 9 Claims. (Cl. 164—17.5.)

1. In a sewing machine provided with a gatherer, a reciprocating member for the gatherer, a seam ripping attachment comprising a base plate connected to said gatherer and extending rearwardly therefrom, an elongated blade having its one end pivoted to said base plate and its other end extending rearwardly therefrom, said



extended end of the blade being formed with a cutting edge, and connecting means between said blade and the reciprocating member of said gatherer whereby the free end of said cutting blade may be oscillated.

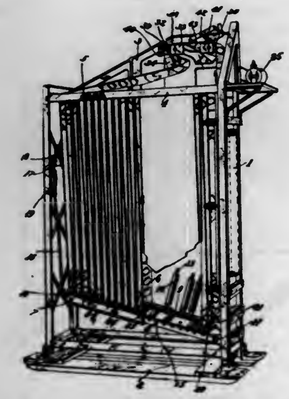
1,451,111. DRIVING COLLAR. JOHN H. REEDY, Hamilton, Ohio. Filed May 27, 1920. Serial No. 384,616. 6 Claims. (Cl. 242—18.)



1. In a driving collar for automatically clutching a shaft, the combination of an element for engaging a shaft formed with roller clearance within it, comprising a series of circumferential cam grooves, a series of rollers set into said grooves and riding therein, and plates independently movable with relation to the shaft and the engaging element, for retaining the rollers in position and serving to cause their movement as a unit, said rollers constituting the sole grasping element between the shaft and the engaging element.

1,451,112. CONTROLLER FOR ELECTRIC SIGNS. FRANK C. REILLY, New York, N. Y., assignor to Joseph I. Kopperl, New York, N. Y. Filed Oct. 15, 1918. Serial No. 258,286. 2 Claims. (Cl. 200—46.)

1. In controlling apparatus for electric signs, the combination with switching apparatus provided with a plurality of contacts, of an endless perforated band adapted selectively to determine the operation of the contacts of said switching apparatus, means for moving said band through said switching apparatus, a plurality or series of rolls which support and hold the unused or slack portion of said band in convolute form as it passes toward or from said switching apparatus, a fixed support for one of said series of rolls, and a movable support for another of said series of rolls, the individual

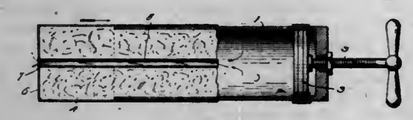


members of said last named series of rolls being bodily movable, whereby they may be disengaged from the convoluted portions of said band.

1,451,113. PROCESS OF PRODUCING CATALYTIC MATERIAL. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 13, 1921. Serial No. 500,857. 3 Claims. (Cl. 23—28.)

1. The method of producing a catalytic material, which comprises precipitating metallic nickel from a nickel salt solution by the addition of zinc and simultaneously grinding the mass, and separating out the precipitated nickel.

1,451,114. LOADING CARTRIDGE FOR GREASE GUNS. CLARENCE E. ROBERTS, Hagerstown, Md. Filed Sept. 13, 1920. Serial No. 409,882. 6 Claims. (Cl. 206—56.)

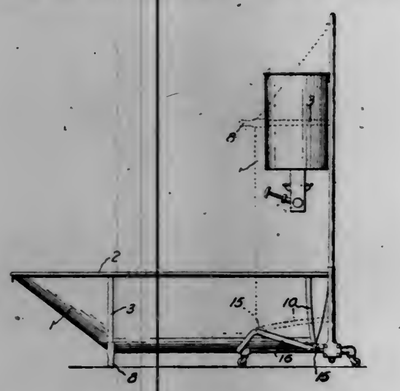


1. A grease cartridge for a lubricating gun comprising a shell having a closed end, and adapted to telescope with the body of the gun, the closed end being provided with means permitting the escape of air from the gun as the gun and shell are being telescoped.

1,451,115. FRAME FOR SHEET-METAL TUBS. RANDY J. ROBERTS, Detroit, Mich. Filed July 14, 1921. Serial No. 484,618. 4 Claims. (Cl. 4—27.)

1. The combination with a sheet metal tub formed of several parts secured together by seams and provided with a peripheral rail, of a pair of frame members curved in cross section to engage against both the seam and the wall of the tub each side of the seam, said frames being secured to the rail at the upper end and the lower ends being outwardly bent out of contact with the tub, a connecting member extending across the bottom of the tub and engaging the same in like manner to the first named parts and having downwardly bent ends secured

to the outwardly bent ends respectively of the frame members, the said connecting bent ends being secured



together and the curved ends providing a flexible connection whereby the fastening means may bind the frames to tight engagement with the seam and tub.

1,451,116. GAS BURNER. JACOB I. ROBIN, New York, N. Y. Filed Jan. 21, 1920. Serial No. 352,959. 4 Claims. (Cl. 158—118.)



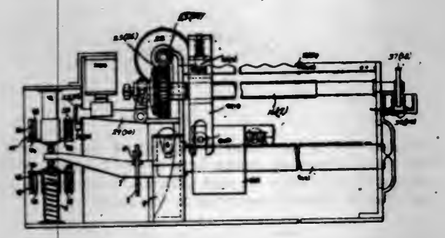
2. In a gas burner, a bunsen, a conducting tube composed of two superposed and separated sections and a mixing chamber interposed between said sections, said mixing chamber having its upper part made in form of a converted cone formed with a plurality of air holes, so that the air drawn into said chamber during the flow of the gas will be directed into the path of the latter and become thoroughly mixed with it before passing into the upper section of the conducting tube.

1,451,117. LANDING GEAR FOR AEROPLANES. EDWARD W. ROUNDS, Washington, D. C. Filed Oct. 24, 1921. Serial No. 510,186. 7 Claims. (Cl. 244—2.)



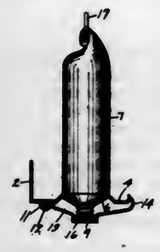
7. In an aeroplane provided with landing wheels, in combination, axles upon which said wheels are mounted, means for locking said wheels to the axle, and means for insuring the equal angular rotation of said wheels when desired, said means comprising a clutch member, means for throwing said clutch into and out of engagement, a lever operable from the pilot's seat and intervening mechanism between the lever and the clutch for actuating the latter whereby the wheels may rotate at different angular velocities.

1,451,118. ELECTRIC STEELYARD WEIGHING MACHINE. KORNELIUS SCHEMBER, Atzgersdorf, near Vienna, Austria, and Rudolf Joksch, Prague, Karolinenthal, Czechoslovakia. Filed Oct. 21, 1920. Serial No. 418,599. 2 Claims. (Cl. 265—56.)



1. In an automatic electric steelyard weighing machine the combination with a plurality of steelyards simultaneously acted upon by the load, and travelling poises, the scales of the said steelyard starting from zero and corresponding to different ranges of weight according to the weighing system used, of electric circuits, contacts therein, a drawing mechanism for the poises and testing device (selector) comprising a pressure balancing device which is inoperative in the position of equilibrium of the weighing mechanism and occupies a position of adjustment differing according to the magnitude of the load and which serves for the selective actuation of the said contacts, whereby the circuits for the movement of the several travelling poises are automatically controlled.

1,451,119. TUBE BRACKET. ERNST R. SCHROEDER and CHARLES M. MILLER, Alameda, Calif. Filed Apr. 27, 1921. Serial No. 464,886. 2 Claims. (Cl. 221—60.)

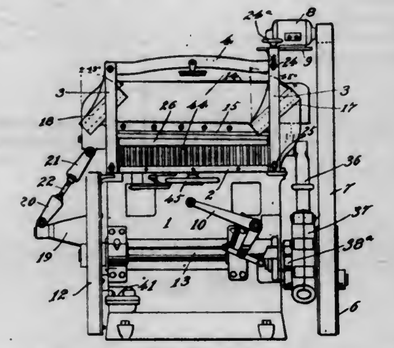


1. A tube bracket comprising a socket in which the inverted tube is secured, a resilient plate pivotally mounted on the bracket below the mouth of the tube, a latch for holding the plate to the bracket, and means on the plate and alined with the mouth of the tube for closing the tube.

1,451,120. PAPER-CUTTING MACHINE. CHARLES SEYBOLD, Dayton, Ohio. Filed Feb. 9, 1921. Serial No. 443,685. 7 Claims. (Cl. 164—54.)

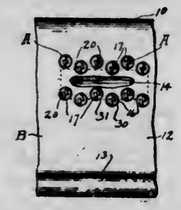
1. In a paper cutting machine, the combination with the frame and reciprocating knife carrier, with mechanism for

actuating said carrier from one end only, of diagonal guides for the knife carrier at each side of the frame, said guides arranged at a slight angle to each other with



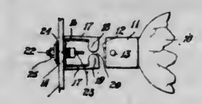
slide blocks swiveled to the knife carrier sliding in said guides whereby a double shearing cut may be obtained for the knife in its passage through the paper pile.

1,451,121. TIRE-REPAIR DEVICE. EDITH M. SIMPSON and JAMES H. BUCKLES, Nighthawk, Wash. Filed May 11, 1922. Serial No. 560,176. 7 Claims. (Cl. 152—26.)



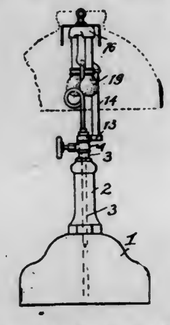
4. The combination with a tire casing having a blow out opening therein, of a repair device for the casing including a longitudinally extending plate weakened at predetermined intervals, a plurality of penetrating prongs formed on the longitudinal edges of the plate, retaining means for the prongs adapted to be disposed in engagement with the tire casing for receiving the terminals of the prongs, the terminals of the prongs having longitudinally extending slots therein defining bendable portions, the portions being bent into engagement with said means and extended in opposite directions in relation to each other.

1,451,122. ELECTRIC-LAMP SOCKET. CHARLES E. STAHL, Meriden, Conn., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn., a Corporation of Connecticut. Filed Jan. 22, 1920. Serial No. 353,270. 3 Claims. (Cl. 113—328.)



3. In a socket for a lamp stem having a pin thereon, a base, a jaw forming a pin holding shoulder, means for supporting said jaw from said base, a member supported from said base and extending into proximity to the free end of said jaw, said jaw member being adapted to substantially encircle a lamp stem, the distance between the free end of said jaw and the adjacent member being less than the thickness of the pin on the lamp stem, whereby when a lamp stem is inserted in the socket the pin on the stem will enter the space between the jaw and the adjacent member and spring the jaw and member apart to permit the insertion of the stem and thereafter the parts will spring back to a distance apart less than the thickness of the pin on the lamp stem to prevent the accidental withdrawal of the stem.

1,451,123. LAMP. JAY C. STEESE and CHESTER A. HOFF, Akron, Ohio., assignors to The Akron Lamp Company, Akron, Ohio, a Corporation of Ohio. Filed July 23, 1921. Serial No. 486,991. 6 Claims. (Cl. 67—94.)



2. In a device of the character described, the combination with a base having an upstanding pipe, a fixture threaded upon said pipe, a generator tube having one end secured in said fixture, a mixing head, burners carried by said mixing head, an offset member co-operating with the head, an opening through said offset member into which an end of the generator tube extends, an upright member secured to the offset member, a bracket to which the upright member is secured, said bracket having a sliding contact with the said fixture, and means for holding the bracket to the fixture.

1,451,124. AUTOMATIC DEVICE FOR FISHING THROUGH ICE. WILLIAM OTTO STOLZE, Newport, R. I. Filed Oct. 3, 1922. Serial No. 592,161. 6 Claims. (Cl. 43—16.)



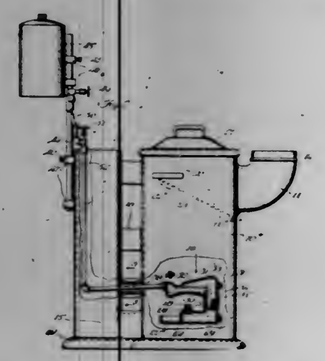
1. A fishing device of the character described comprising in combination, a support, a reel, a reel supporting

rod pivotally attached to the support, a flexible signalling staff attached to the support, a ring on the staff adapted when in set position to engage a trip finger on the reel, a flexible tensioning metal strip mounted adjacent the reel on the supporting rod, a nut on the tension end of the rod adapted to vary the tension on the metal strip and to adjustably increase the resistance to the unwinding of the reel, and a metal bearing between the reel and the supporting rod.

1,451,125. PROCESS FOR THE PRODUCTION OF PAPER PULP AND THE LIKE. BERTRAND S. SUMMERS, Port Huron, Mich. Filed Apr. 21, 1922. Serial No. 555,898. 6 Claims. (Cl. 92—11.)

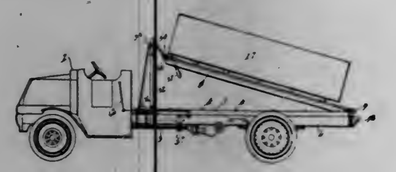
2. A process of producing sulfite wood pulp, which consists in cooking the wood in a solution containing a bi-sulfite and a material capable of producing hydro-sulfurous acid.

1,451,126. HEATER. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Engineering Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 5, 1920. Serial No. 371,433. 22 Claims. (Cl. 126—360.)



1. A heater of the class described comprising a base, a combustion chamber and an intake tube cast integrally with said base and rising therefrom in spaced relation, with the lower end of said tube communicating with the lower end of said chamber, a fuel supply tank mounted above said tube, a supply duct leading downwardly from said tank to said tube and having a portion extending laterally from the tube into said chamber, means for rigidly securing said laterally extending portion against movement, a burner mounted upon the inner end of said horizontal portion of the supply duct so as to be supported thereby, and an outlet duct leading from the upper end of said chamber.

1,451,127. TRUCK AND TRAILER CARRIER. DANIEL N. THORNTON, Waitsburg, Wash. Filed Dec. 17, 1921. Serial No. 523,173. 5 Claims. (Cl. 214—38.)



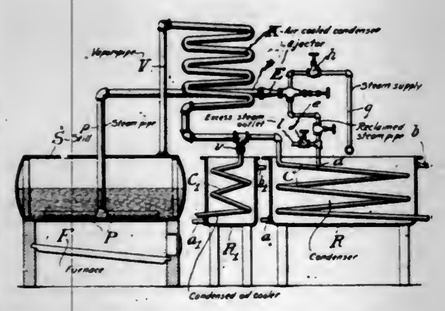
1. In a truck and trailer carrier, in combination, a track, rigidly attached to the frame of a truck, guide members hingeably attached to said track, a trailer carrier separable from said truck, guide members rigidly attached to said trailer carrier, a box, flanges adjustably attached to the bottom of said box and positioned to register with either of said guide members, and operating means attached to said frame, and operable by means of the propeller shaft of said truck, for dumping said box and for moving said box from the truck to the trailer carrier and vice versa.

1,451,128. CARVING TOOL. KONSTANTINE THULANDER, Rockford, Ill., assignor to L-T-L Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,354. 6 Claims. (Cl. 90—62.)



1. A bit for carving machines comprising a shank having a head with flat sides, a carving blade the base of which has a slot and is shaped to embrace said flat sides, and a nut threadingly engaging the shank for clamping the blade to the head.

1,451,129. METHOD OF AND APPAPARATUS FOR OIL DISTILLATION. JOHN W. VAN DYKE, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1919. Serial No. 317,693. 12 Claims. (Cl. 196—27.)

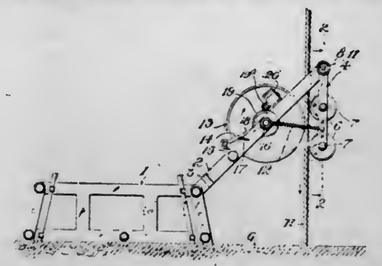


1. The method of distilling oil, which consists in raising the oil to distilling temperature in the presence of steam of lower temperature, withdrawing steam from the resultant mixture of steam and distillate, impelling the withdrawn steam by motive fluid steam in contact therewith, and introducing the mixture of steam into oil undergoing distillation at a temperature higher than the temperature of said mixture.

1,451,130. APPARATUS FOR MEASURING DEPTHS OF WELLS. CHARLES E. VAN ORSTRAND, Washington, D. C. Filed June 26, 1920. Serial No. 391,890. 12 Claims. (Cl. 33—134.)

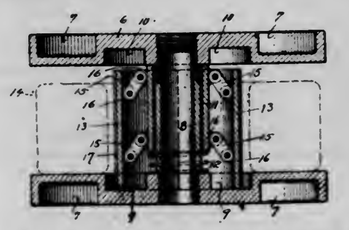
1. In an apparatus for measuring depths of wells, a support, a frame hinged thereto and constrained to substantially vertical, plane movement, a recording wheel on said frame and means pivotally connected to said frame for maintaining a cable subject to vibrations in continuous

contact with and at substantially a straight tangent to said recording wheel, said means admitting movement of



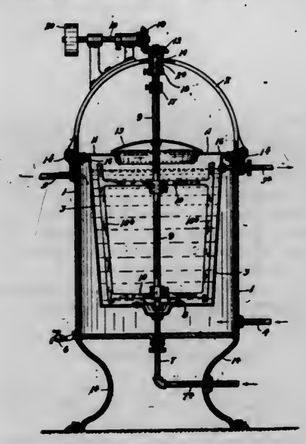
said cable across said recording wheel without changing the relative positions of said recording wheel and said means.

1,451,131. ADJUSTABLE REEL. HENRY WEBER, Chicago, Ill. Filed June 26, 1920. Serial No. 391,944. 11 Claims. (Cl. 242—111.)



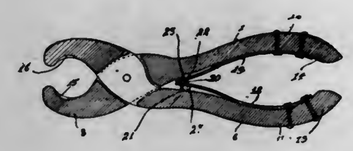
2. A wire spool comprising end plates having annular recesses in adjacent sides concentric with the axis thereof; a member joining the end plates together; a tube over said member and shorter than the distance between said end plates; a plurality of plates disposed around said tube having their ends extending into said recesses; links connecting said tube with the last mentioned plates; and a compression spring between one end plate and said tube.

1,451,132. MILK AND CREAM PASTEURIZER. CARL J. WESTERGAARD, Minneapolis, Minn. Filed June 24, 1921. Serial No. 480,016. 4 Claims. (Cl. 257—108.)



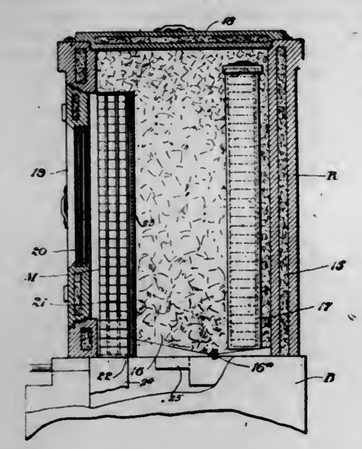
2. A pasteurizing device having in combination of cylindrical casing, a frusto-conical vessel supported therein and spaced from the sides thereof with its larger end uppermost and forming with the casing a steam chamber, an inlet opening at the bottom of said vessel, a step bearing substantially flush with said bottom, a vertical shaft support for said bearing, a stirrer in said vessel secured to aid shaft, a cover on said vessel having a central aperture therein, said cover having a downwardly curved flange surrounding said aperture, a removable lid on said cover support for said aperture, said lid having a central opening therein through which the said vertical shaft passes.

1,451,133. HOG PINCERS. GEORGE H. WILSON, Coleman Alberta, Canada. Filed Mar. 11, 1921. Serial No. 451,615. 1 Claim. (Cl. 128—332.)



Hog pincers comprising lever handles pivotally united and having jaws, said handles adjacent their pivot being provided with grooves, springs secured to said handles, a pin connecting said springs near their inner ends, and studs carried by said pin and seated in said grooves.

1,451,134. ICE-CREAM-VENDING CABINET. ERNST WISROTH, Los Angeles, Calif., assignor of one-half to Reginald D. Raphael, Los Angeles, Calif. Filed Oct. 31, 1921. Serial No. 511,702. 2 Claims. (Cl. 211—9.)

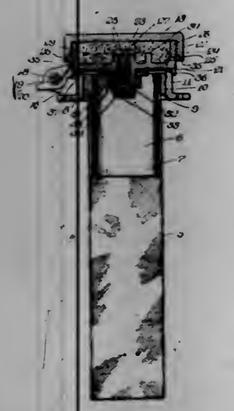


1. In an ice cream vending apparatus, a receptacle constructed to provide an ice compartment, storage magazines arranged within said compartment, a door controlled opening for gaining access to the compartment and to said magazines, dispensing magazines within the compartment, a door controlled opening for gaining access to the dispensing magazines, said dispensing magazines being formed of rods arranged in spaced relation to each other and having an open side through which the bricks of cream are adapted to be placed into and removed from the magazines.

1,451,135. FOOD PRODUCT AND PROCESS OF PRODUCTION. ALBERT W. WRIGHT and ELISABETH H. WRIGHT, San Francisco, Calif. Filed Mar. 17, 1920. Serial No. 366,634. 4 Claims. (Cl. 99—11.)

3. The process of producing a new food product which consists in removing and discarding the entire rind and seeds from melons, thereafter adding sugar and cooking the mass comprising the juices and inner fleshy portion of the melon until the consistency of syrup has been reached.

1,451,136. FILLING TUBE FOR LIQUID RECEPTACLES. BENJAMIN F. ALLNUTT, Chicago, Ill. Filed Aug. 10, 1921. Serial No. 491,078. 1 Claim. (Cl. 220—86.)



A filling structure for a liquid receptacle comprising a flanged internally threaded collar for permanent attachment to a receptacle, a closure cap hinged thereto providing an inwardly extending concentric hollow hub; an inwardly opening check valve within the hub; means within the hub to adjust the valve; a screw cap closing the outer end of the closure cap; a foraminous tube insertible within the tank through said collar and an imperforate guard tube within the foraminous tube attached thereto and having a threaded head for threaded engagement with the threads of the flanged collar.

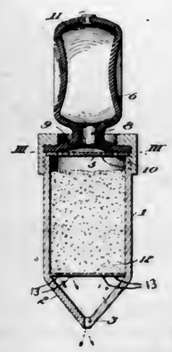
1,451,137. VENTILATED HAND PROTECTOR FOR GUNS. FRANKLIN L. BAILY, Los Angeles, Calif. Filed Nov. 1, 1921. Serial No. 512,162. 3 Claims. (Cl. 42—1.)



1. A gun hand protector, comprising a single piece metal handle, composed of an inner portion formed to fit the barrel snugly but shiftable longitudinally thereon, and an outer portion in spaced relation thereto intermediate its sides.

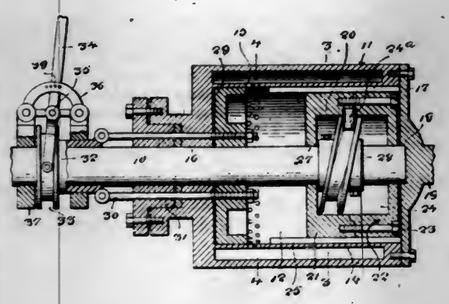
1,451,138. INSECT-POWDER GUN. SAMUEL BERNSTEIN, New York, N. Y. Filed July 26, 1922. Serial No. 577,554. 7 Claims. (Cl. 43—146.)

4. The combination with a powder container having a nozzle at one end, of a bellows bulb attached to the other end of the container and having a central air-delivery opening and a flexible valve portion around said opening, and a closure disk in the container adjacent said bulb, said disk having perforations normally covered by said



valve portion of the bulb, the central portion of said disk in line with the air-delivery opening in the bulb being imperforate.

1,451,139. FLUID CLUTCH MECHANISM. WILLIAM BROTHER, Salt Lake City, Utah. Filed May 21, 1920. Serial No. 383,209. 1 Claim. (Cl. 192—59.)

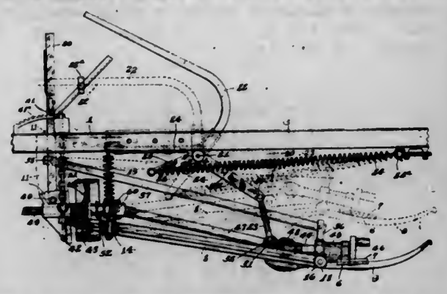


A fluid transmission device comprising a cylinder divided into separate fluid containing compartments, having communicating openings therebetween, a shaft connected to one end of the cylinder, a drive shaft rotatably mounted within the cylinder, a piston formed of separate cup shaped sections, means by which said sections may be secured together to provide a chamber within the piston, means located within the chamber and operated by the drive shaft for moving the piston longitudinally of the cylinder and means for controlling communication between the cylinder compartments to regulate the passage of fluid therebetween.

1,451,140. AGRICULTURAL MACHINE. ALEXANDER T. BROWN, Syracuse, N. Y. Filed Aug. 31, 1918. Serial No. 252,215. 17 Claims. (Cl. 56—25.)

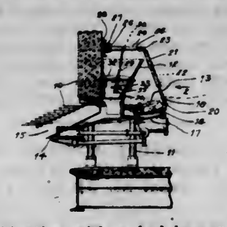
1. In an agricultural machine, a frame, a horizontally extending implement shiftable up and down relatively to the frame and a support for the implement connected

to the frame at a plurality of points and being hinged to the frame to have a universal action at one of



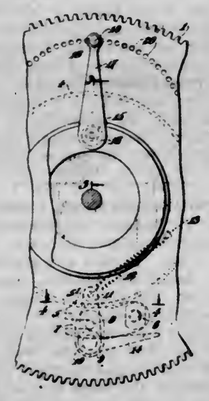
said points and spring means connecting the frame and the support at another point, substantially as and for the purpose described.

1,451,141. AGITATOR FOR MECHANICAL STOKERS. HAROLD G. BURRILL, Baltimore, Md. Filed Nov. 18, 1921. Serial No. 516,022. 6 Claims. (Cl. 259—39.)



1. The combination with a fuel hopper, of means for positively moving fuel from said hopper, said means comprising a thrust shaft reciprocating in the direction of movement of said fuel from said hopper and in the opposite direction, and means on said shaft shaped to move said fuel when said shaft is moved in said first named direction and to cut through said fuel when said shaft is moved in the opposite direction.

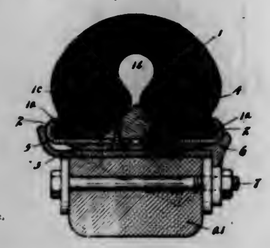
1,451,142. DUPLICATING MACHINE. WALTER CHIPPERFIELD, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1921. Serial No. 461,017. 6 Claims. (Cl. 101—248.)



1. In duplicating machines, the combination of a printing cylinder, a gear in the driving train therefor, a lever

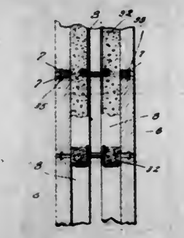
pivoted to said cylinder, having rack teeth thereon, adapted to mesh with said gear, spring means for holding said teeth in mesh with said gear, a hand lever on the exterior of said cylinder, and means operated by said hand lever for swinging said rack lever away from said gear.

1,451,143. DEMOUNTABLE HARD-RUBBER CUSHIONED TIRE AND RIM. JAMES H. CLARK, Portage, Wis., assignor of one-half to J. M. Russell, Portland, Oreg. Filed May 9, 1921. Serial No. 467,859. 3 Claims. (Cl. 301—20.)



1. A cushion tire structure having in combination, a tire having a central longitudinal channel extending therethrough, said tire being divided along a plane extending therefrom to the inside of the tire centrally thereof, a wedge-shaped expanding member disposed between said divisions, a rim comprising two circumferentially extending sections, each disposed under the tire and formed to embrace the tire at one side thereof, and securing means for said sections and the expanding member.

1,451,144. BUILDING CONSTRUCTION. FRANK L. DECKER, Kimble, Pa. Filed Mar. 31, 1922. Serial No. 548,438. 9 Claims. (Cl. 72—30.)

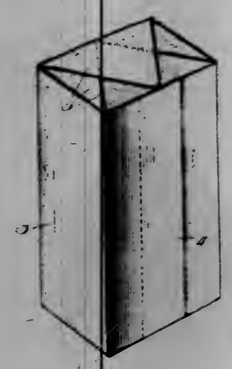


1. A wall construction in which slabs arranged in superimposed courses provide the inner and outer walls therefor, comprising vertical members in contacting engagement with the inner faces of the opposed slabs, spacing means for said vertical members, tie means engaging both the spaced means and the vertical members, means at the confronting ends of the superimposed first mentioned means for securing the tie means thereto, and means on the tie means disposed between the superimposed slabs and engaging therewith to hold the latter on the frame work.

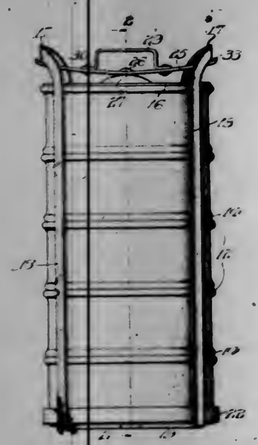
1,451,145. MANUFACTURE OF MOISTUREPROOF PACKAGES. HENRY G. ECKSTEIN, Chicago, Ill., assignor, by mesne assignments, to The Cracker Jack Co., a Corporation of Illinois. Filed Sept. 26, 1919. Serial No. 326,551. 5 Claims. (Cl. 229—3.1.)

1. The method of vapor-proofing packages which consists in enfolding the goods in a flexible waxed paper wrapper the wax on which may at times be partially de-

stroyed in the operation of sealing the package, then applying heat and pressure to the overlapping folds of the wrapper to seal the same by the wax thereon, and subsequently restoring a film of wax to any such denuded surfaces of the wrapper to provide a substantial, continuous film over all portions of the package.

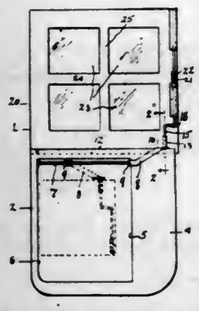


1,451,146. RACK FOR STACKED CONTAINERS. JOHN L. FATE, Chicago, Ill.; Daisy L. Fate, executrix of said John L. Fate, deceased, assignor, by mesne assignments, to C. Roy Gleason, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,709. 2 Claims. (Cl. 220—57.)



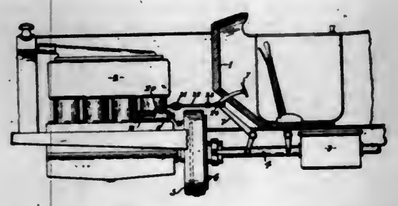
1. A rack for a stack of individual containers comprising a bottom support, consisting of crossed members, upstanding members rising therefrom, and clamping means coacting with said upstanding members to effect clamping pressure on the upper container of a stack of individual containers contained in the rack and resting on said support, said upstanding members being arranged in pairs with the members of each pair formed to provide a loop and the clamping means comprising a cross bar extending between and movably locked to said loops and adapted to bear between its ends upon the upper container of a stack within said rack.

1,451,147. CURTAIN-SUPPORTING MEANS FOR AUTOMOBILE DOORS. LOUIS H. FEDER, Cleveland, Ohio, assignor of one-half to Richard S. Bondy, Cleveland, Ohio. Filed May 6, 1922. Serial No. 558,906. 7 Claims. (Cl. 296—139.)



1. In a device of the character described, the combination of a vehicle door having a top frame member and a pocket below said member, of a rod mounted in said pocket below said frame member, a support member slidably mounted on said rod and rotatable thereabout and a curtain support rod carried by said support member and movable therewith from a position above said top frame member to a position below the same within said pocket.

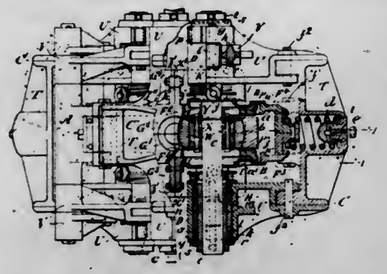
1,451,148. CLUTCH-PEDAL CONTROL FOR MOTOR VEHICLES. FRANK H. FLORING, Syracuse, N. Y. Filed Nov. 28, 1919. Serial No. 341,139. 1 Claim. (Cl. 188—94.)



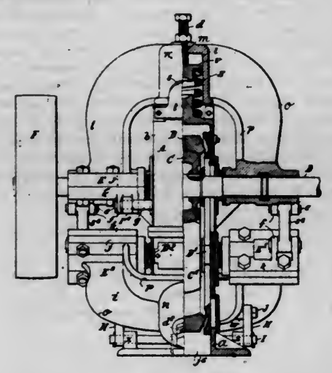
A clutch pedal control for motor vehicles comprising a cylinder, a piston movable in the cylinder, means for fixedly securing the cylinder to a support, the piston being provided with a rod having a cross-head at its end remote from the piston, and the cylinder being formed with a guide for the cross-head, a link pivoted to the cross-head on opposite sides of the cylinder and connected to the clutch pedal of the motor vehicle and the cylinder being provided with a plurality of air outlets operating to increase the resistance of the air on the piston as the piston moves inwardly into the cylinder, substantially as and for the purpose described.

1,451,149. CRUSHING MACHINE. GEORGE HOLT FRASER, Brooklyn, N. Y. Original application filed Dec. 31, 1907, Serial No. 408,773. Renewed June 12, 1916, Serial No. 103,341. Divided and this application filed Feb. 2, 1917, Serial No. 146,220. Renewed June 14, 1922. Serial No. 568,237. 12 Claims. (Cl. 83—9.)

1. In combination, an annular die revolving in an approximately vertical plane and having an internal crushing face, a movable and rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the inner face of said die, means for revolving one of said parts, a casing supporting said parts, a movable member movably mounted on said casing, non-rotative movable means on which said roll is rotatably mounted and movably mounted on and held outwardly by said movable member, and pressing means opposite and reacting on said movable member and said casing for holding said non-rotative means outwardly to hold said roll outwardly toward the inner face of said die to resist a crushing pressure therefrom.



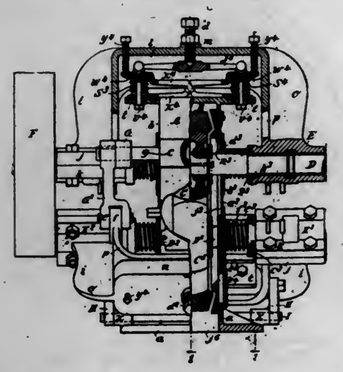
1,451,150. MACHINE FOR CRUSHING OR GRINDING. GEORGE H. FRASER, Brooklyn, N. Y. Original application filed Mar. 16, 1905. Serial No. 250,474. Divided and this application filed Jan. 31, 1917, Serial No. 145,690. Renewed Dec. 15, 1922. 24 Claims. (Cl. 83—9.)



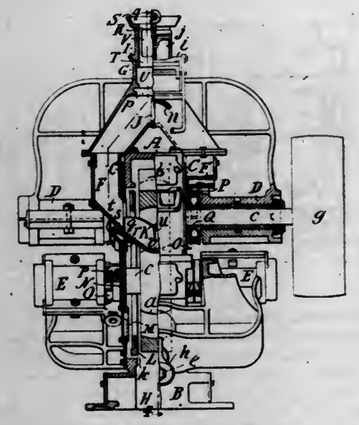
1. In combination, an annular crushing die revolving in an approximately vertical plane and having an internal crushing face, a movable and rotatable crushing roll disposed within the upper part of and eccentric of said die and having a peripheral crushing face reciprocal to the internal face of said die, means for revolving one of said parts, movable non-rotative means on which said roll is rotatably mounted, upper roll movable upholding means disposed below the axis of said roll and opposite and beneath said non-rotative means and acting on the latter to hold said roll upwardly toward the inner face of said die to resist a crushing pressure from the latter, and nonrotative supporting means for sustaining said upholding means and from which said upholding means are movably supported.

1,451,151. MACHINE FOR CRUSHING OR GRINDING. GEORGE H. FRASER, Brooklyn, N. Y. Original application filed Mar. 16, 1905, Serial No. 250,474. Divided and this application filed Feb. 2, 1917, Serial No. 146,221. Renewed June 8, 1922. Serial No. 566,899. 10 Claims. (Cl. 83—9.)

1. In combination, an annular crushing die revolving in an approximately vertical plane and having an internal crushing face, a movable and rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the internal face of said die, means for revolving one of said parts, a casing comprising a wall at the side of and enclosing said die and roll and having a spring sustaining projection extended outward beyond the outer side of said side wall, a movable non-rotative member on which said roll is rotatably mounted disposed outwardly of the outer side of said side wall and spaced apart from and movable relatively to said projection, a spring disposed outwardly of the outer side of said side wall and inwardly of said non-rotative member and between the latter and said projection for pressing said roll outwardly toward the inner face of said die to resist a crushing pressure therefrom reacting toward and sustained by said projection.

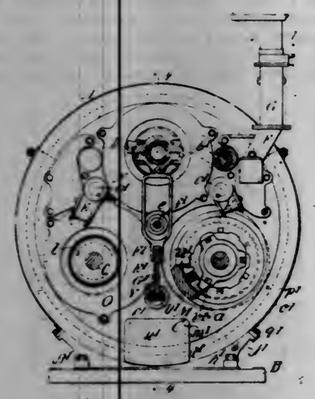


1,451,152. PULVERIZING MILL. GEORGE HOLT FRASER, Brooklyn, N. Y. Filed Mar. 17, 1917, Serial No. 155,390. Renewed Dec. 15, 1922. 15 Claims. (Cl. 83—9.)



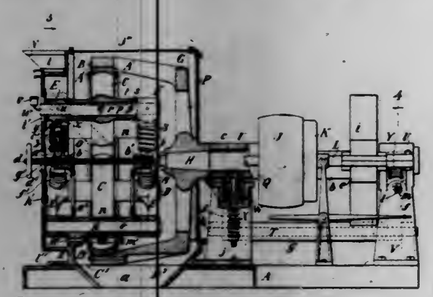
1. In a mill of the type described, a grinding roll and a die, in combination with a casing for the same having a side aperture, a roll axle in said aperture having a bearing without the casing, a cover for said aperture surrounding the axle, a dust guard on said axle adjacent the said cover, and a revolving collar on said axle between said dust guard and said bearing.

1,451,153. PULVERIZING MILL. GEORGE HOLT FRASER, Brooklyn, N. Y. Filed Mar. 20, 1917. Serial No. 156,175. Renewed Dec. 15, 1922. 20 Claims. (Cl. 83—9.)



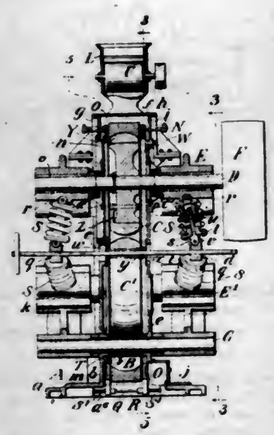
1. In combination, an annular crushing die revolving in an approximately vertical plane and having an internal crushing face, a rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the inner face of said die, means for revolving one of said parts, means for supporting said parts, non-rotative movable means at each side of said roll on which said roll is rotatably mounted, and movable aligning means extending through said die for maintaining alignment of said non-rotative means.

1,451,154. MACHINE FOR GRINDING AND CRUSHING. GEORGE H. FRASER, Brooklyn, N. Y. Filed Mar. 31, 1917, Serial No. 158,823. Renewed Aug. 9, 1922, Serial No. 580,808. 24 Claims. (Cl. 83—9.)



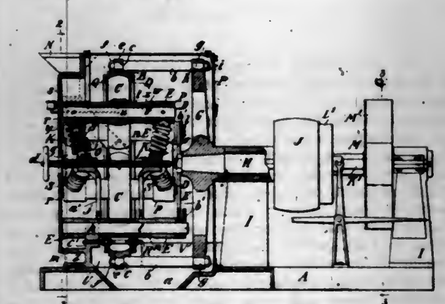
1. In combination, an annular externally driven crushing die having an internal crushing face, a movable and rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the inner face of said die, means for revolving said die, and a support on which said roll is movably and rotatably mounted comprising an outer supporting portion mounted exteriorly of said die and having a portion extending past one side of said die affording an aperture at the side of said roll through which the latter can be passed and having projecting inwardly from and sustained by said outer portion a rigid inner roll supporting portion within and extending through said die and movably and rotatably sustaining said roll within said die opposite said recess.

1,451,155. MACHINE FOR CRUSHING OR GRINDING. GEORGE H. FRASER, Brooklyn, N. Y. Filed Mar. 31, 1917, Serial No. 158,824. Renewed Aug. 15, 1922. Serial No. 582,071. 21 Claims. (Cl. 83—9.)



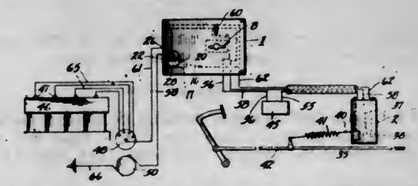
1. In combination, an annular crushing die, revolving in an approximately vertical plane and having an internal crushing face, a rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the inner face of said die, means for revolving one of said parts, non-rotative means on which said roll is rotatably mounted, and supporting means supporting said die and mounted exteriorly thereof comprising a portion extending past one side of said die and a stationary portion extending through the interior of said die and internally supporting the latter and of less size than the internal diameter of said die, said supporting means affording a space at the other side of said die through which the latter may be removed.

1,451,156. MACHINE FOR CRUSHING AND GRINDING. GEORGE H. FRASER, Brooklyn, N. Y. Filed Mar. 31, 1917, Serial No. 158,825. Renewed Dec. 15, 1922. 16 Claims. (Cl. 83—9.)



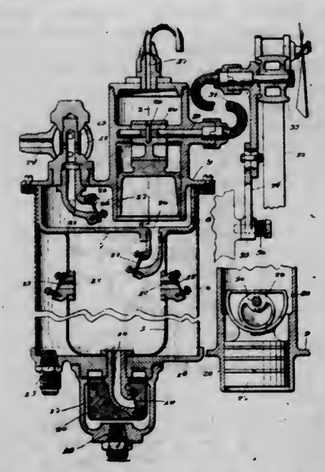
1. In combination, an annular crushing die revolving in an approximately vertical plane on a fixed axis and having an internal crushing face, a movable and rotatable crushing roll within and eccentric of said die and having a peripheral crushing face reciprocal to the inner face of said die, means for revolving one of said parts, a revolving head at one side and rotatably sustaining said die, movable non-rotative means on which said roll is rotatably mounted in parallelism with and movable at right angles to the axis of said die, a one sided support for said roll mounted exteriorly of said die and having a portion extending past one side of said die movably sustaining said non-rotative means solely from such side of said die, and a pivotal connection between said non-rotative means and said supporting means axially parallel with the axis of said die.

1,451,157. CIRCUIT BREAKER. BERT G. GERMIG, Seattle, Wash. Filed May 23, 1921. Serial No. 471,578. 7 Claims. (Cl. 123—146.5.)



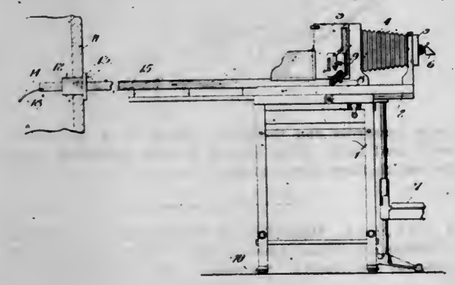
7. In a motor driven vehicle, the combination with the electric circuit for the spark plugs of the vehicle's engine and a brake rod for the vehicle, of a circuit breaking device comprising a motor driven shaft, a wheel fixed on said shaft provided with radially extending arms, a rocker shaft provided with an arm adapted to be engaged by the arms of said wheel when the latter is rotated to effect the rocking of the shaft, a switch arm fixed to the rocker shaft having electrical connection with one terminal of the spark plug circuit and movable by the shaft between the contact block and an adjustable arm that are electrically connected with the other terminal of the spark plug circuit, a yieldable latch bar normally engageable with arms of the wheel, to prevent rotation thereof, a solenoid adapted, when energized, to magnetically move the latch to releasing position, an electric circuit for the solenoid, a switch arm in said circuit operatively connected with said brake rod, whereby movement of the latter to effect braking of the vehicle will move the arm to close the solenoid circuit.

1,451,158. LIQUID-ELEVATING DEVICE FOR MOTOR-VEHICLE ENGINES. HUGO B. GRANT, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 18, 1920, Serial No. 431,798. Renewed Sept. 7, 1922. Serial No. 586,803. 2 Claims. (Cl. 158—36.)



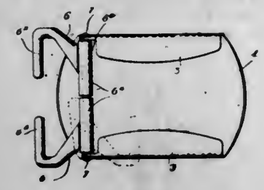
1. In a vacuum liquid supply apparatus, a liquid receiving vessel having a liquid outlet and an overflow outlet, a vacuum chamber carried by and located above said vessel, and having a liquid outlet thereinto and a liquid inlet, and an air pump having its cylinder opening into the vacuum chamber.

1,451,159. PHOTOGRAPHIC DARK ROOM. JOHN S. GREENE, Rochester, N. Y., assignor to Commercial Camera Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 8, 1920. Serial No. 415,504. 3 Claims. (Cl. 95—90.)



1. In a photographic apparatus, the combination with a dark room of a light tight conveying chute extending into the same, an exposing mechanism arranged exteriorly of the dark room and adapted to discharge exposed photographic material into the chute, and a light seal surrounding the chute within a wall of the dark room said light seal comprising a tubular member provided with elastic ribs adapted to press against the walls of the chute and to yield sufficiently to permit the insertion and withdrawal of the latter.

1,451,160. BELT BUCKLE. JOHN HEBERLING, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed June 13, 1922. Serial No. 568,031. 3 Claims. (Cl. 24—191.)



3. A buckle comprising a buckle frame having a clamping surface, a shaft supported by said buckle frame, two belt anchoring members mounted to turn relatively to each other on said shaft, and each having a belt engaging portion extending toward the belt engaging portion of the other member, and two clamping surfaces each arranged on one of the belt anchoring members to swing with the latter about their axis toward and from the clamping surface on the buckle frame.

1,451,161. HEADLIGHT FOR AUTOMOBILES. EMERSON B. HELM, Cleveland, Ohio, assignor of one-third to Charles L. Gebauer and one-third to James Benner, both of Cleveland, Ohio. Filed Dec. 1, 1920. Serial No. 427,519. 2 Claims. (Cl. 240—41.)

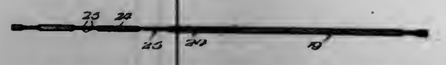
1. In an automobile headlight, in combination, a paraboloid reflector arranged with its axis substantially horizontal, a pair of light sources supported substantially on the axis of said reflector on opposite sides of its focal point, and individual reflectors for said sources, one of

said individual reflectors facing upwardly and the other facing downwardly, the source which is forward of the focal point being located in that individual reflector which



faces upwardly and the source which is at the rear of said focal point being located in that individual reflector which faces downwardly.

1,451,162. METHOD OF PRODUCING A MATRIX. HENRY A. HEBB, Chicago, Ill. Filed Jan. 2, 1923. Serial No. 610,212. 2 Claims. (Cl. 101—401.3.)



1. The method of producing a matrix for use in the treatment of a printing plate which consists in printing from a printing plate the design thereon upon the surface of a metallic sheet, then from the printing plate and upon another sheet of material pulling another copy of the design, then placing the proof face of the second sheet against the back of the metallic sheet so that the design on the proof face will register with the design on the obverse face of the metallic plate, then causing the design on the second sheet to offset on the back of the metallic sheet, and then etching both faces of the metallic sheet.

1,451,163. CANDLE POINTER. ALFRED S. HOPE, Chicago, Ill. Filed Apr. 12, 1922. Serial No. 552,058. 2 Claims. (Cl. 18—1.)



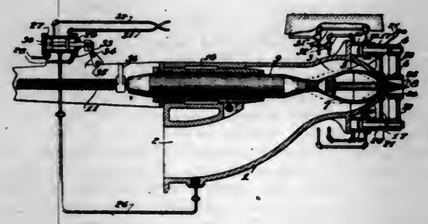
1. In a candle pointer, the combination of a tubular body, an apertured hollow cone integral therewith, a cutter blade shaped to produce a compound curved candle tip and fitted to the hollow cone member in such a way that the axis of the cutter diverges from the axis of the cone and has an increasing angle of rake from the point of the cone to the junction with the tubular body portion.

1,451,164. CANE-CRUSHING APPARATUS. HENRY HURTER, St. Louis, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed May 10, 1920. Serial No. 380,331. 1 Claim. (Cl. 100—47.)

In an apparatus for expressing juice from cane, a pair of cooperating rolls each having peripheral ribs and grooves adapted to receive the cane, the peripheral grooves at the ends of one roll being of less depth than the intermediate grooves, and the end ribs of the other roll being of less depth than the intermediate ribs.

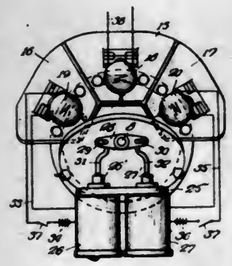


1,451,165. HYDRAULIC-NOZZLE CONSTRUCTION. CHESTER B. MCAULAY, Palo Alto, Calif. Filed Feb. 8, 1922. Serial No. 534,865. 14 Claims. (Cl. 253—24.)



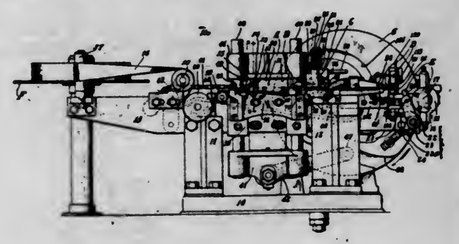
13. In combination with a hydraulic nozzle, a needle valve movably mounted therein to control the stream flow issuing from the orifice thereof, a tip at the discharged end of the nozzle and formed with an orifice of a contour differing from that of the nozzle orifice, a pair of pistons operatively supporting said tip in position, a cylinder within which each piston operates, a fluid pressure supply connected with opposite ends of each cylinder, a valve for controlling the pressure flow through said connection, and a valve trip adjustably mounted on the needle valve stem for actuating said valve, dependent on the position of the needle valve.

1,451,166. SIGNAL DEVICE. DANIEL J. MCCARTHY, Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1920. Serial No. 384,560. 3 Claims. (Cl. 177—337.)



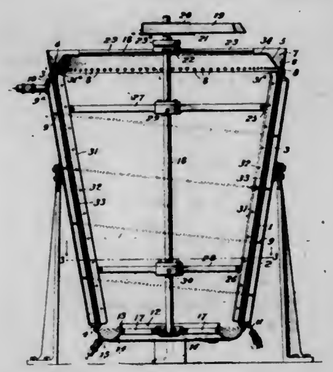
1. A signal device having a lens; a plurality of lamps arranged around the lens, a reflector, movable to project the light thru the lens from a selected lamp and a solenoid, in series with the selected lamp to move the reflector to appropriate cooperative position with respect to said lamp.

1,451,167. METHOD AND APPARATUS FOR FORMING STRAPS AND APPLYING THE SAME TO ARTICLES. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,335. 67 Claims. (Cl. 12—1.)



18. Apparatus of the class described comprising means for longitudinally folding a strip of material, means for intermittently advancing said folded strip and severing a length therefrom, and means for presenting an article in position to receive said strip as it is advanced.

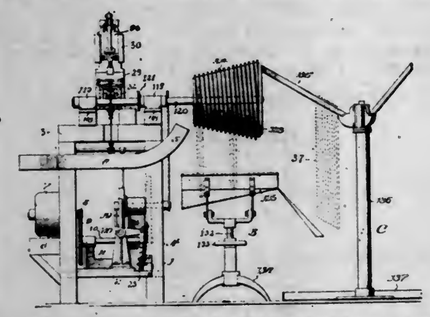
1,451,168. APPARATUS FOR TREATING MATERIALS. MAY C. MABEE, Toledo, Ohio. Filed Sept. 11, 1915, Serial No. 50,225. Renewed June 29, 1922. Serial No. 571,766. 18 Claims. (Cl. 127—9.)



5. In an apparatus of the character described, the combination of a vertically disposed tubular container, the wall of which tapers inwardly from the top to the bottom thereof, said container having an inlet in its side wall for the material adjacent said enlarged top and an outlet for the treated material adjacent the bottom thereof, means whereby the material is caused to move downwardly over the treating surface while subjected to a positive rotatable movement in layer formation circumferentially over said surface, means for applying to the wall of the container a heat transmitting medium of high temperature, and said container being open at opposite ends for the escape of vapors.

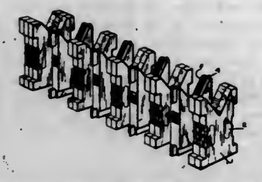
1,451,169. APPARATUS FOR THE PREPARATION OF TIRE BEADS. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 22, 1919. Serial No. 312,474. 8 Claims. (Cl. 154—9.)

1. In an apparatus for the preparation of tire beads, the combination of means for uniting the ends of a bead strip to form a ring, a support projecting from said means and around which the ring is formed, a conveyor carried by said support and disposed to receive the rings formed



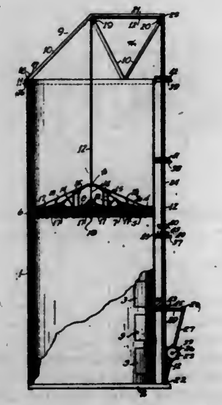
by the ring forming means, and a coating bath disposed in the path of travel of the rings on the conveyor for coating the rings.

1,451,170. TYPOGRAPHIC MATRIX AND PRODUCTION OF SAME. GEORGE E. MARLATT, Pasadena, Calif. Filed May 26, 1921. Serial No. 472,833. 12 Claims. (Cl. 109—66.)



1. A typographic matrix having characters in regular and auxiliary positions on the body portion thereof, a recess between said regular and auxiliary positions capable of receiving an insert part, and an insert part for said recess having characters in position to co-operate with the characters on the body portion of the matrix for forming composite characters in both of said regular and auxiliary positions.

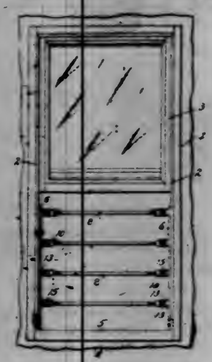
1,451,171. SILO. JULIUS MATTSON, Chicago, Ill. Filed Aug. 25, 1921. Serial No. 495,160. 4 Claims. (Cl. 20—1.4.)



1. In a silo having a vertically disposed casing, a closure movably disposed in said casing and comprising a

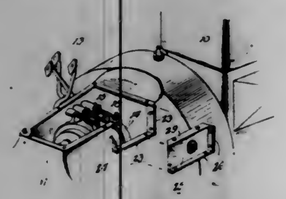
case of porous flexible material, a filling of heat impervious material disposed in said case, and a cover of wire netting over said case.

1,451,172. WINDOW GUARD. GROVER C. F. MAYER, Brooklyn, N. Y. Filed Oct. 27, 1921. Serial No. 510,961. 1 Claim. (Cl. 20—71.)



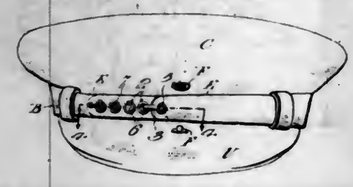
A guard for windows, comprising members having holes therein and adapted to fit within the sash guideways of the casement, guard rods shorter than the distance between said members when said members are within the sash guideways, flanged nuts on the ends of said rods capable of being screwed onto said rods so that the distance between the outer ends of the heads of said nuts on the rods will be shorter than the distance between the members when said members are in position in the casement, and portions on the outer end of said nuts adapted to fit within the holes in said members when the nuts are screwed outward on said guard rods permitting the flanges on said nuts to engage the members and hold said rods and members firmly in desired position.

1,451,173. TRANSMISSION-CASE COVER. HARRY E. MIEBACH and ARNOTT S. CAUGHEY, Lethbridge, Alberta, Canada. Original application filed Oct. 1, 1920, Serial No. 414,100. Divided and this application filed Nov. 16, 1921. Serial No. 515,652. 2 Claims. (Cl. 74—56.)



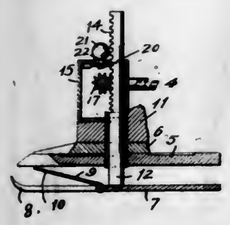
1. In a transmission cover having a top door opening, and a top door normally closing said opening, a side door opening in the cover merging at its top in the side of the top door opening, the cover being provided with flanges on the bottom and rear side wall of the side door opening, a side door closing the side door opening and having outwardly projecting flanges mating with the flanges on the bottom and rear side wall of the side door opening, means engaged through said flanges securing the side door in position, the side door being provided at its top edge with an inwardly projecting flange engaging under the edge of the top door, the side door and side door opening having mating transversely beveled front edges, fastening means inserted in the mating beveled edges of the side door and side door opening to effect binding of the bottom and rear side flanges of the side door upon the mating flanges of the side door opening, and fastening means inserted through the top door into the inwardly projecting top flange of the side door.

1,451,174. ADJUSTABLE CAP. CHARLES H. MIRUS, Louisville, Ky. Filed Aug. 1, 1922. Serial No. 578,932. 2 Claims. (Cl. 2—106.)



1. In an adjustable cap, means for varying the size of the head opening, comprising head band extension straps adapted to have their free ends overlap, a rigid plate arranged on one of said extension straps and formed with a row of openings disposed at predetermined spaced size intervals, a strip of flexible material arranged between said plate and its extension strap and bearing a row of hat-size numbers which are exposed to view through said openings in the plate, fasteners uniting said plate, said strip and said extension strap and a hook secured to the other extension strap to be selectively engaged with any of said openings in the plate.

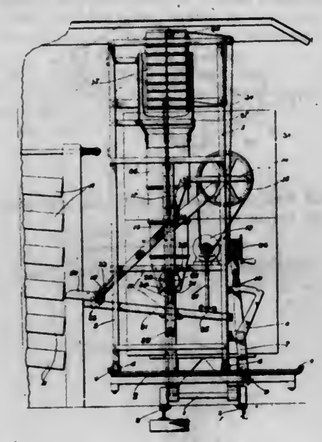
1,451,175. HAIR CLIPPER. CHERUBINO NANNINI, Manhattan, Nev. Filed May 29, 1922. Serial No. 564,417. 7 Claims. (Cl. 30—1.)



1. In a hair clipper having a fixed and slidably movable cutting blade, means positioned beneath the fixed blade adapted to be moved to and from the same for adjusting the cutting effect of the blades, and comprising a plate having a plurality of teeth corresponding to the lower cutting blade, upstanding posts on said blade, opening through the clipper made to receive said posts, each of said posts having a rack face, a transverse shaft mounted across said rack faces, pinions on said shaft meshing with said rack faces, and means for rotating said shaft whereby the said plate may be adjustably moved to and from the lower cutting blade by raising or lowering said posts.

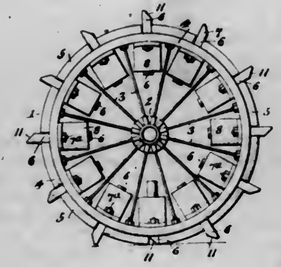
1,451,176. MACHINE FOR CHARGING FURNACE RETORTS. JOHN EDWIN PEDERSEN, Hillsboro, Ill., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a Corporation of Maine. Filed June 24, 1921. Serial No. 480,014. 16 Claims. (Cl. 214—18.)

1. A machine of the character described, comprising a supporting frame located adjacent to the charging ends of retorts, movable throwers carried by the frame for throwing material into the retorts, means for supporting the throwers at different heights necessary to throw material into retorts at different heights, and mechanism for moving the throwers rapidly toward the open ends



of the retorts with sufficient momentum to throw the material to the inner ends of the retorts when the throwers are stopped near the ends of the retorts.

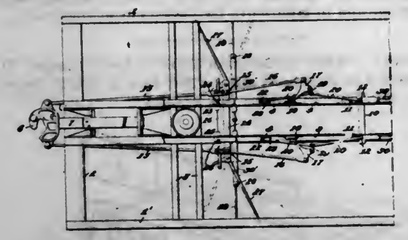
1,451,177. TRACTION WHEEL. JAMES H. PIERCE, Shelburn, Ind. Filed Feb. 8, 1922. Serial No. 534,958. 2 Claims. (Cl. 301—51.)



2. A traction wheel comprising a rim upon which the wheel may travel, filling blocks extending peripherally of the exterior of the rim and spaced apart at their ends to provide guide spaces, lugs or cleats movable into and out of the guide spaces between the filling blocks and also spaced apart circumferentially of the wheel, the cleats or lugs being provided with spaced stems at their ends movable radially through the guide spaces and provided with expansion springs having a normal tendency to project the lugs, and said springs being of a resistance to yield to the weight of the traction wheel.

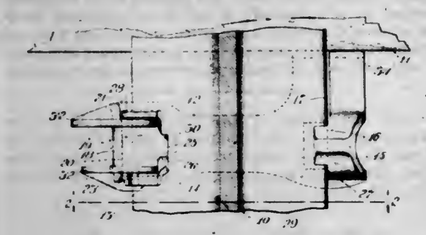
1,451,178. PULL MECHANISM FOR RAILWAY CARS. CHARLES V. ROTE, Lancaster, Pa., assignor of one-half to E. W. Brown, Lancaster, Pa. Filed July 27, 1920. Serial No. 399,307. 4 Claims. (Cl. 213—8.)

2. The combination with a railway car frame, having a draft coupler at each end, of two toggles each having both members pivotally connected to the car frame, the connection between each of said members and the frame being movable in the direction of the length of the frame, a rigid connection between adjacent members of the toggles, a connection between each toggle and the adjacent coupler, and adjustable means for preventing



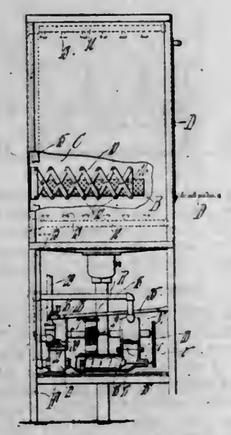
relative movement between one of the members of each toggle and the frame.

1,451,179. RAIL ANCHOR. WILLIAM B. RUNYAN, Dayton, Ohio, assignor to Mitchell Rail Anchor Company, Inc., Dayton, Ohio, a Corporation of Kentucky. Filed June 5, 1922. Serial No. 565,873. 22 Claims. (Cl. 238—324.)



1. A rail anchor comprising a rail base engaging member and a wedge adapted to have a wedging engagement between said member and the upper surface of the rail base, said member and wedge being formed with coengaging means for maintaining the wedge in alignment with said member when the wedge is being driven to its operative position.

1,451,180. WASHING MACHINE. ANTON C. SCHMELZER, Springfield, Mass., assignor, by mesne assignments, to Century Machinery Corporation, Holyoke, Mass., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,716. 11 Claims. (Cl. 141—9.)



1. In a washing machine, a washing compartment, an inlet conductor to supply water thereto, a movably

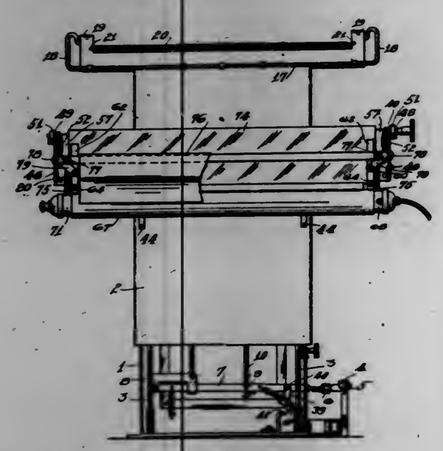
mounted containing device for soap or the like, and means controlled by the flow of the water to move said device into the path of the water passing through said conductor and to later move the device out of such path.

1,451,181. BED CONSTRUCTION. LA FORREST D. SCOTT, Los Angeles, Calif. Filed July 5, 1922. Serial No. 572,857. 7 Claims. (Cl. 5—37.)



1. In a foldable structure having a carriage and a member pivotally secured thereto, a support for said carriage adapted to rest on the floor, said support being extensibly mounted on said carriage so as to be projected therefrom upon said carriage being lifted, and an arm actuated by projection of said support to be moved under said member and lock said carriage and member in open position.

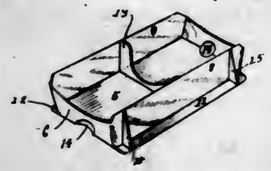
1,451,182. READING APPLIANCE. ROBERT M. SEARLE, Rochester, N. Y. Continuation in part of application Serial No. 368,311, filed Mar. 24, 1920. This application filed Apr. 8, 1921. Serial No. 459,741. 44 Claims. (Cl. 120—29.)



1. In a copy holder, the combination with a work support and a line guide, one of which is movable vertically relatively to the other; of an ironing device for flattening the work directly above the line guide, and an elongated lens for viewing the work flattened by the ironing device.

1,451,183. TRACTION ATTACHMENT FOR WHEELS. JOHN W. SHROCK, Akron, Ohio. Filed June 25, 1920. Serial No. 391,670. 1 Claim. (Cl. 152—2.)

In a device of the class described, an integral box-like structure, comprising a bottom plate, arched laterally to conform to the circumferential outline of a wheel; parallel side walls, outwardly bulged, relatively low end walls; an opening in each end wall, a centrally positioned, laterally extending, strengthening partition; said bottom plate extending outwardly beyond said side walls; each of said openings being positioned at the base of an end wall so



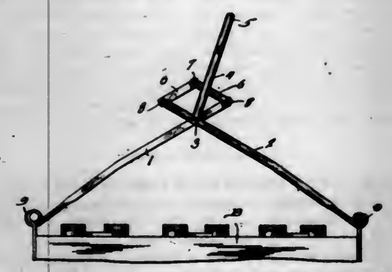
as to extend into both the end wall and base plate, substantially as herein set forth.

1,451,184. WRENCH. HERVEY W. SMALL, Small, Idaho. Filed Apr. 1, 1921. Serial No. 457,677. 3 Claims. (Cl. 81—139.)



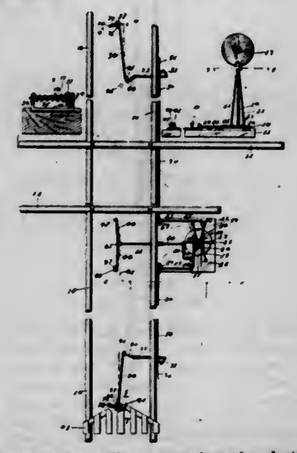
1. A wrench including a shank, a toothed shank slidable in the first shank, a rockable toothed member mounted in the first shank and engaging the teeth of the second shank, an angle lever mounted in the first shank, and a resilient means secured to the rockable member and loosely engaged with one arm of the lever for moving the rockable member into and out of engagement with the toothed shank.

1,451,185. TONGS FOR LIFTING BATTERIES. WILLIAM F. STAGGERS, Mannington, W. Va. Filed May 12, 1921. Serial No. 468,916. 3 Claims. (Cl. 294—118.)



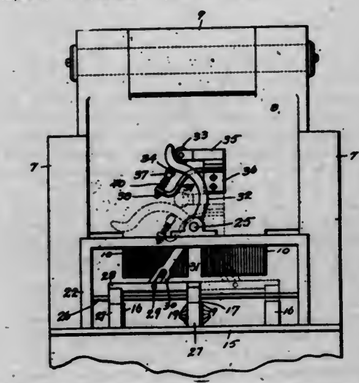
1. In tongs of the class described, the combination of tong members having outwardly turned hook ends, a handle on which the tong arms are pivotally mounted, and a lazy tongs extension on the ends of the tong elements by means of which the tongs may be readily adjusted for picking up articles of different size said tong arms having only one point of pivotal attachment to the handle and permitting the handle to be swung free from the outer portion of the lazy tongs extension.

1,451,186. RAILWAY-CROSSING SIGNAL. EDWIN H. STALEY, Burt, and CHAUNCY I. MANSMITH, Algona, Iowa. Filed Sept. 12, 1922. Serial No. 587,648. 5 Claims. (Cl. 246—293.)



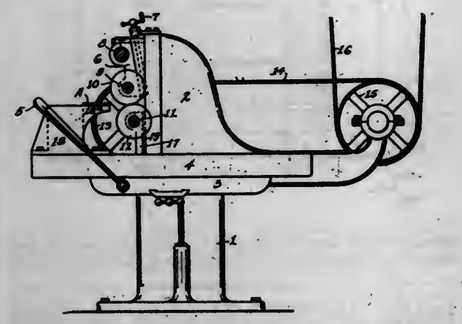
1. In an improved railway crossing signal, the combination of a signal device, a rod extended substantially parallel with the railway track and connected with the signal device when a pull is exerted upon it, a signal actuating bar adjacent to the railway track and normally extended in a direction slightly divergent from a position parallel with the rails, one end being pivotally supported, the other end being free to swing laterally, means whereby the lateral movement of the free end of the actuating bar will exert a pull on said rod, and means for yieldingly supporting the pivoted end of the actuating bar to permit lateral movement thereof, and an actuating lug designed to be attached to a train for engagement with the actuating bar.

1,451,187. BRICK-SURFACING MACHINE. JACOB STOCKE, Jr., St. Louis, Mo., assignor to Progress Press Brick and Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 11, 1922. Serial No. 542,991. 7 Claims. (Cl. 25—20.)



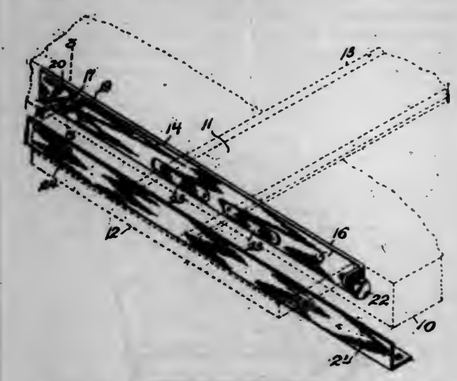
1. A brick surfacing machine comprising a brick press having a ram, a table secured to said press, strips secured to said table, cutters secured in one of said strips and extending therefrom, a movable end scoring blade adapted to be moved across the ends of a brick by the downward movement of the ram.

1,451,188. MILLING MACHINE. WILLIAM A. STUDY, Richmond, Ind. Filed June 10, 1921. Serial No. 476,425. 1 Claim. (Cl. 90—16.)



A milling machine having a bracket with a vertical face, an upper cutter-shaft and a lower cutter-shaft both adjustably connected to said face, means whereby one of said shafts may be adjusted laterally with relation to the other shaft, means for revolving said shafts by power, a bed plate, a carriage adapted to travel horizontally on said bed-plate, a work supporting block having a horizontal upper face with means whereby said block is carried by said carriage, and a milling cutter mounted on each of said shafts whereby each may engage material resting on the surface of said block, all substantially as shown and described.

1,451,189. GUIDE FOR T SQUARES. ALBION A. VANDERPOOL, Newark, N. J. Filed Aug. 12, 1922. Serial No. 581,293. 5 Claims. (Cl. 33—76.)

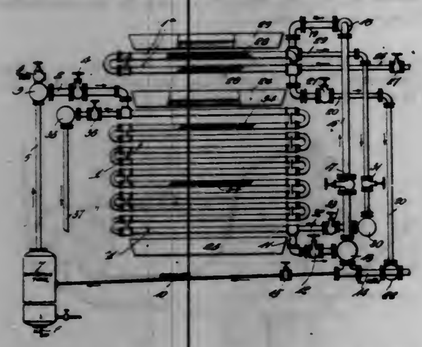


1. A guide for T-squares comprising a slide for attachment to the guiding edge of the head of the T-square, a strip adapted to be secured to a drawing board, and yielding means adapted to be interposed between the slide and the strip for holding the guide against the drawing board.

1,451,190. GAS CONDENSER. FREDERICK E. VOORHIES, Tulsa, Okla. Filed Apr. 28, 1921. Serial No. 465,165. 3 Claims. (Cl. 257—40.)

1. A condensing apparatus comprising a pair of independent condensers of relatively low and high efficiency respectively, a condensate outlet from the low efficiency

condenser, a gas passage leading from said condensing outlet to said high efficiency condenser, and an outlet



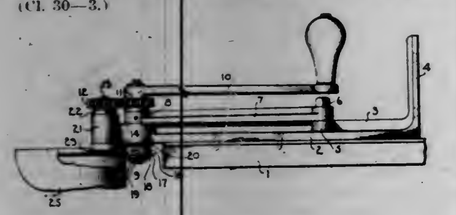
from the last named condenser independent of the low efficiency condenser and leading to said condensate outlet.

1,451,191. AUTOMATICALLY-OPERATING FABRIC CLAMPING AND GRIPPING BUCKLE. JEM R. WADE, Denver, Colo., assignor of one-half to The New England Electric Company, Denver, Colo., a Corporation of Colorado. Filed Oct. 2, 1922. Serial No. 591,994. 4 Claims. (Cl. 24—193.)



1. A fabric clamping device of the character described, consisting of a wire framelike member comprising a horizontal bar portion of suitable length, which is bent at points defining the length of the bar, to form inwardly extending members which lie beneath and are parallel with the bar, said members being bent in reverse directions, and then around to form an incomplete ringlike member, and a second incomplete ringlike member, of substantially the same size and shape as the first ring-like member, the free ends of which are bent around the said inwardly extending members to form a hinge connection therewith.

1,451,192. CAN OPENER. ROBERT H. WALLER, Nashville, Tenn., assignor to Quicksafe Manufacturing Company, Nashville, Tenn., a Corporation of Tennessee. Filed May 17, 1922. Serial No. 561,651. 14 Claims. (Cl. 30—3.)



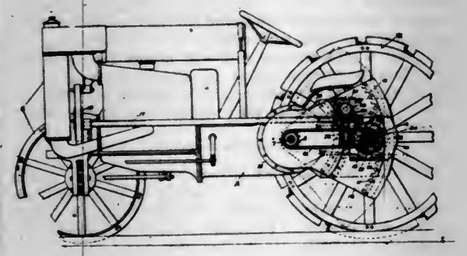
3. In a can opener, a rotary cutter or knife, a gage roller for engagement with the inner wall of the bead of the can, intermeshing gears for causing the cutter and roller to be simultaneously rotated in opposite directions and means for positively throwing one of the gears out of mesh with the other gear when said cutter is rotated in a reverse direction.

1,451,193. PENCIL. PAUL WM. WERNER, Niota, Ill. Filed July 30, 1921. Serial No. 488,563. 1 Claim. (Cl. 120—18.)



In a device of the class described, a body; a rotatable member journaled in the body; a bearing threaded into the body, the bearing having a kerf, the rotatable member being journaled in the bearing; an abutment on the rotatable member and coacting with the bearing, the abutment being cut away to give access to the kerf; a plunger having threaded connection with the rotatable member; and means for holding the plunger against rotation.

1,451,194. TRACTOR. EDWIN G. ADAMS, The Dalles, Oreg. Filed Aug. 4, 1922. Serial No. 579,720. 4 Claims. (Cl. 180—41.)



1. In a tractor of common type, the combination of, independent members pivoted in their forward parts in the chassis and extending rearwardly, one having a rigid forward facing rack, the other a like reverse facing rack, also containing tractor wheels mounted on stub shafts rotatable in the free parts of said members, a transverse shaft rotatably mounted in the chassis, having rigid pinions on each end, positioned to mesh constantly with the opposing racks above mentioned, and mechanism arranged and adapted and by means of which said shaft and its pinions may be caused to rotate in either direction and thereby cause the tractor wheels to rise or descend desired distances in vertically opposite directions, without changing a substantially horizontal position of the chassis.

1,451,195. COMBINED SHOVEL, TORCH, AND MATCH HOLDER. JOSEPH C. BAGLEY, Beloit, Ala. Filed Jan. 6, 1922. Serial No. 527,420. 2 Claims. (Cl. 158—10.)

2. The combination with a blade having a recess and a passage communicating with said recess, of a shank connected to said blade and having communication with said

passage, a combined reservoir and handle connected to said shank, a valve interposed between said shank and reservoir, a wick received in said recess, a flange extinguishing plate slidable over said wick, and a combined



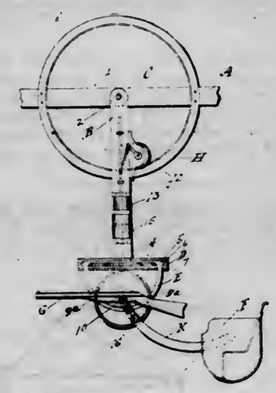
baller and supporting member connected to the rear portion of said handle and constituting a means for supporting the reservoir and said shank in an inclined position.

1,451,196. POCKET LOCK FOR GARMENTS. JOSEPH C. BAHR, St. Louis, Mo. Filed Aug. 8, 1921. Serial No. 490,515. 4 Claims. (Cl. 24—201.)



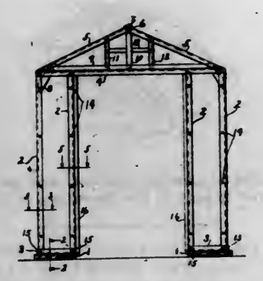
1. A pocket lock for a garment comprising a pair of interengaging members, and a forcing element carried by one of said members for forcing said other member into an interlocked position.

1,451,197. AEROPLANE GUN MOUNTING. JOHN P. BALL, Chicago, Ill. Filed July 13, 1921. Serial No. 484,389. 3 Claims. (Cl. 89—40.)



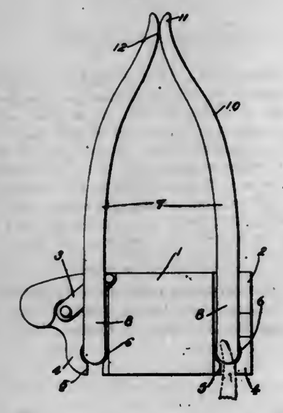
3. In a flying machine, main longitudinal frame members disposed lengthwise of the body of the machine in the same plane, supplementary pivoted bars spaced apart and hinged at one end to said main longitudinal frame members and adapted to swing in a vertical circle, an auxiliary operator's chair independent of the main operator's chair, and pivotally secured to the other end adapted to rotate in a circle, means for revolving said supplementary bars, means for rotating said auxiliary operator's chair and means of communication between said auxiliary operation and the main machine operator.

1,451,198. BUILDING CONSTRUCTION. VICTOR A. BENSON, San Jose, Calif. Filed Nov. 1, 1921. Serial No. 512,155. 6 Claims. (Cl. 189—1.)



1. A building construction comprising a framework built up of angle irons L shaped in transverse cross section and sheet metal covering said framework, said framework having a door opening formed therein, each side element of said opening being formed of a pair of vertically extending and horizontally spaced angle irons each arranged with one flange parallel with the wall in which it is placed and the other flange arranged at right angles thereto and extending toward the interior of the structure and a third angle iron arranged with one flange inserted between the inwardly extending flanges of said parallelly arranged angle irons and another flange extending laterally to form a door stop.

1,451,199. CASING ELEVATOR. FRANK M. BLAIR, Newark, Ohio, assignor to The Cree-Becker Oil Tool Company, Newark, Ohio. Filed Mar. 30, 1922. Serial No. 548,058. 3 Claims. (Cl. 294—90.)

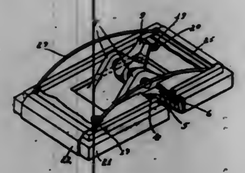


1. The combination with an elevator having oppositely extending lugs, there being transverse openings in the lower portions of the lugs and slots extending upwardly to said openings from the lower ends of the lugs, of links of variable thickness removably seated in the openings.

1,451,200. FLOOR WAXER AND POLISHER. ALFRED S. BOYLE, Cincinnati, Ohio. Filed Feb. 25, 1922. Serial No. 539,309. 3 Claims. (Cl. 15—231.)

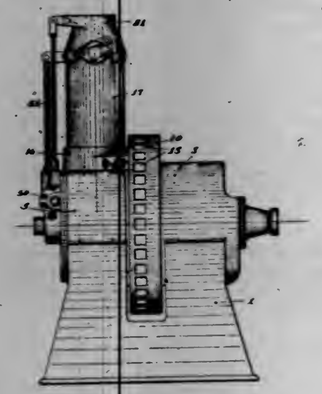
1. In a floor waxer and polisher, the combination of a base comprising a top and a bottom plate both of which

have depressed upper faces, the top plate being adapted to seat in the depression in the bottom plate, means to



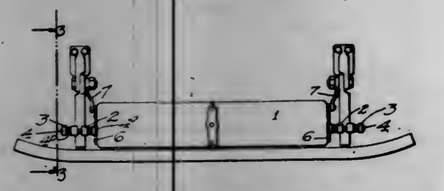
secure the plates upon one another, and an arched wire frame adapted to seat in the depression in the top plate.

1,451,201. AIR-COOLED INTERNAL-COMBUSTION ENGINE AND ELECTRIC GENERATOR PLANT. ALEXANDER T. BROWN and CHARLES S. BROWN, Syracuse, N. Y. Filed Feb. 18, 1919. Serial No. 277,874. 3 Claims. (Cl. 123—171.)



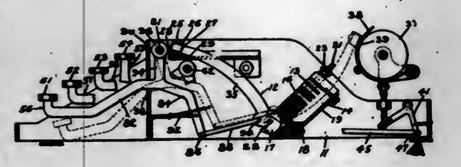
3. In an internal combustion engine, a crank case, a cylinder mounted on the case, an air chamber in the form of a box mounted on the crank case, around and spaced apart from the lower end of the engine cylinder, the chamber having an outlet in one side, a jacket surrounding the cylinder having its lower end engaged with the top of the air chamber, and a fan mounted on the crank shaft and running across said outlet and having an inlet communicating with the outlet of said chamber, substantially as and for the purpose set forth.

1,451,202. AUTOMOBILE TOOL-BOX SUPPORT. JAMES WILLIAM BROWN, San Diego, Calif. Filed Nov. 26, 1920. Serial No. 425,444. 6 Claims. (Cl. 293—55.)



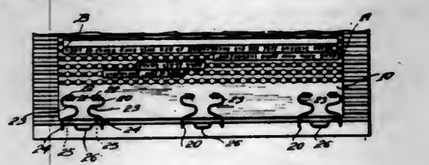
2. In a device of the class described, the combination with a conventional automobile, of brackets secured to the automobile wheel base, bumper supports shiftably mounted on said brackets, a bumper secured near the ends of said bumper supports, a container positioned between said bumper supports contiguous to said bumper, adjustable supporting means connected to said container and said bumper support for supporting said container in certain spaced relation from said support for various widths of the vehicle wheel base and adjustable bracing means connecting with the lower side of said container and with the bumper supports for bracing said container.

1,451,203. TYPEWRITING MACHINE. CHARLES U. CARPENTER, Dayton, Ohio. Filed May 3, 1922. Serial No. 558,052. 20 Claims. (Cl. 197—22.)



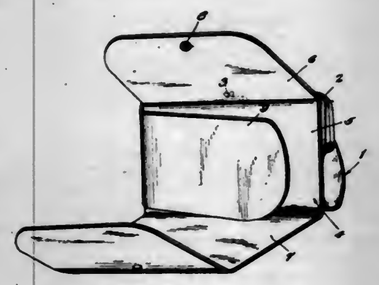
1. In a typewriting machine, a key lever pivoted approximately at the top of the machine, and having one portion extended forwardly and another portion extending downwardly to approximately the bottom of the machine, a type bar pivoted near the bottom of the machine and extending upwardly to approximately the top thereof, and a link connecting the end of the key lever with the type bar.

1,451,204. FLEXIBLE PRINTING FORM. CLIFTON CHISHOLM, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 8, 1922. Serial No. 550,802. 16 Claims. (Cl. 101—375.)



1. In combination with a printing bed, of a printing member mounted on the bed and having fastening means secured to it, said means including one portion which engages the member beneath the printing surface and another portion which engages the bed beneath the surface thereof which supports the printing member.

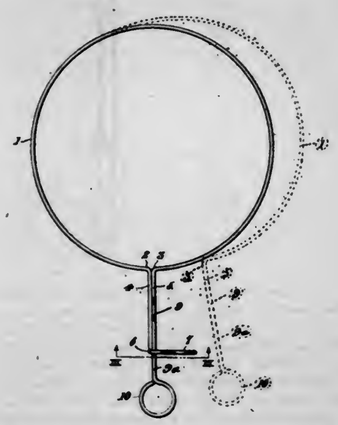
1,451,205. COMBINED PURSE AND BILL FOLD. ADOLFO DE CLAIRMONT, Toledo, Ohio. Filed Feb. 10, 1921. Serial No. 443,934. 2 Claims. (Cl. 150—35.)



1. As a new article of manufacture, a purse, and a bill fold, comprising relatively foldable portions, the purse

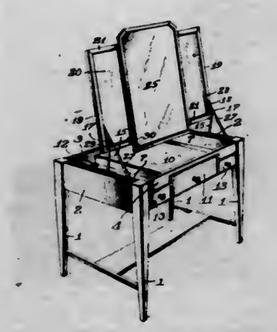
and bill fold having a dividing wall in common, means upon the said wall and the opposite wall of the purse for closing the mouth of the purse, and means upon the said dividing wall and one of the said portions of the bill fold for closing the bill fold and retaining the same in folded condition.

1,451,206. STRAINER-CLOTH CLAMP. VERNON E. DOW, Muskegon, Mich. Filed Mar. 30, 1922. Serial No. 548,203. 2 Claims. (Cl. 24—256.)



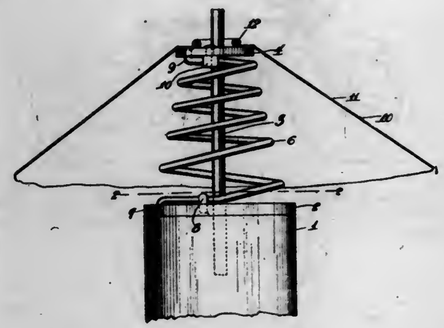
1. In a strainer cloth clamp, a resilient loop portion, clamping arms carried by the adjacent ends of the loop portion, the outer end of one arm being bent at right angles with said end and further bent to provide a reversely looped portion and said other clamping arm being offset upwardly and adapted for interlocking engagement with the reversely looped portion of the first named clamping arm for holding the resilient loop portion in clamping position.

1,451,207. DRESSING TABLE. THOMAS B. DRAPER, Toronto, Ontario, Canada. Filed Sept. 7, 1920. Serial No. 408,650. 5 Claims. (Cl. 45—70.)



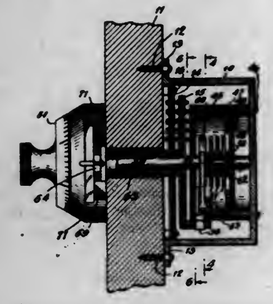
1. In a dressing table having drawers and trays, a table top normally closing said tray, means connecting said table top to said table so that it may be raised to expose its inner wall, and a mirror pivoted off center on the inner wall of said table top to swing by gravity.

1,451,208. TENT-TENSION EQUALIZER. BENJAMIN F. DUNN, St. Paul, Minn. Filed May 15, 1920. Serial No. 381,576. 1 Claim. (Cl. 135—15.)



In a tent, the combination of a support for the top of the tent including a stationary plate adapted to be mounted on the tent pole, a standard extending vertically from the plate, a helical spring surrounding the standard and rigidly fastened to said plate, and a second plate slidably mounted on the standard and secured to the upper end of the spring for movement therewith, said plate being engaged by the top of the tent.

1,451,209. LOCKING SYSTEM FOR AUTOMOBILES. RICHARD E. ELMORE, New York, N. Y. Filed July 1, 1921. Serial No. 481,803. 16 Claims. (Cl. 200—45.)



1. In an electrical switch mechanism for automobiles and the like, in combination with a series of automobile circuits controlling a series of distinct devices, a stationary switch member, having contact elements, a rotatable plate-like switch member provided with opposite wing portions, one carrying contact elements and the other including locking elements, the contact elements of the switch members comprising sets of make and break elements, a set for each of said circuits, means for moving the rotatable member into a series of successive positions; the said sets of make and break contact elements being so predetermined as to provide, in any of the successive positions of the said rotatable member, for the closing or opening of any desired permutation or combination of said series of circuits and locking means cooperating with said locking elements.

1,451,210. MOTOR CYCLE SUPPORT. JOSEPH S. ESLICK, San Jose, Calif. Filed Nov. 28, 1921. Serial No. 518,387. 4 Claims. (208—77.)

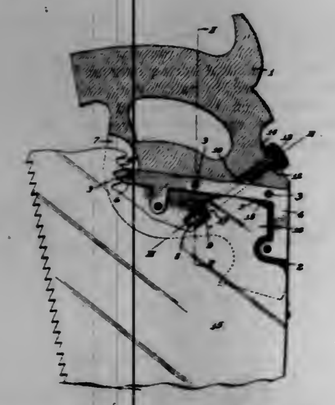
1. A motorcycle support comprising guides adapted to be vertically mounted upon each side thereof, a leg mem-

ber slidably mounted in each guide, a resilient connection between each leg and guide, means for locking each leg



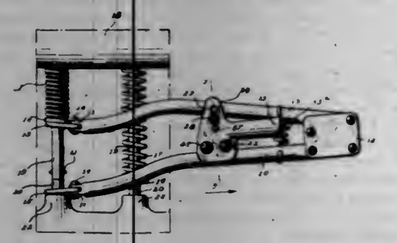
in a given position with relation to its guide, and foot actuated means for simultaneously unlocking said leg members.

1,451,211. HANDSAW. GEORGE FORTON, Detroit, Mich. Filed Aug. 24, 1922. Serial No. 583,957. 4 Claims. (Cl. 145—113.)



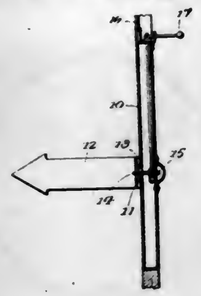
1. A hand saw comprising a handle having a groove, a frame in the groove of said handle, a saw blade extending into the groove of said handle and engaging one end of said frame, and means adjustable in said handle and engaging said saw blade for adjusting said saw blade so as to tilt it relative to said handle.

1,451,212. VALVE-SPRING-LIFTING DEVICE. JOHN GILBERT FYE, Ollie, Iowa. Filed Apr. 19, 1921. Serial No. 462,533. 3 Claims. (Cl. 29—86.3.)



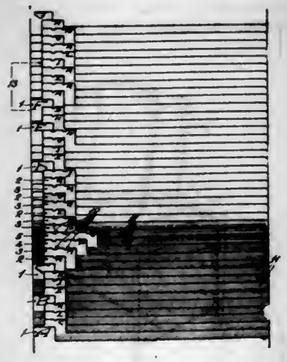
1. An improved valve spring lifting device comprising two arms pivoted together near one end, and a spreader for said arms comprising a handle and a body portion, the body portion being formed with two plates spaced apart from each other and capable of being inserted between the arms when they are spread and to receive the arms between the plates when the arms are brought toward each other, a fixed arm engaging member between said plates to engage one of the arms, and an adjustable arm engaging member between said plates to engage the other one of said arms, the adjustable member being capable of movement toward and from the fixed member.

1,451,213. DIRECTION SIGNAL FOR AUTOMOBILES. HAROLD K. GILBERT, Garner, Iowa. Filed Jan. 26, 1921. Serial No. 440,085. 1 Claim. (Cl. 116—52.)



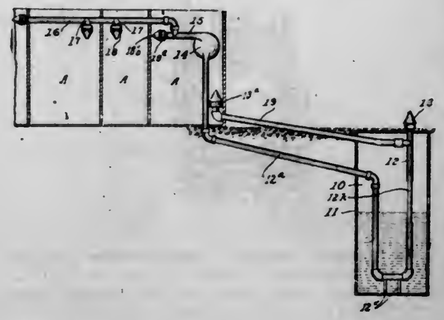
In a direction signal for automobiles, the combination with the double-walled door of an automobile, the wall portions of the door having aligned openings, a bearing bracket mounted on one of the wall portions within the door and adjacent the opening thereof, a bracket on the upper end of the door, a vertical shaft disposed between the wall portions of the door and rotatably supported in said brackets, a gear on the shaft partially protruding through the opening of the adjacent wall portion, a housing on the door covering the said opening and gear, means for rotating the shaft, a signal arm mounted on the outer face of the outer wall portion of the door adjacent the opening thereof and having a gear projecting through the opening and engaging the gear of the shaft.

1,451,214. TAB OF GUIDE CARDS FOR CARD INDEXES AND THE LIKE. MARIO GOITRE, Turin, Italy. Filed Apr. 16, 1921, Serial No. 461,824. Renewed Sept. 5, 1922. Serial No. 586,356. 4 Claims. (Cl. 129—16.5.)



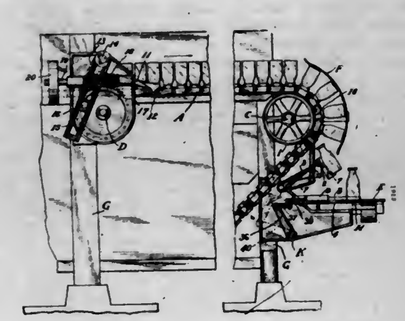
3. A card index comprising a plurality of primary guide cards having tabs of a width equal to twice the size of a modulus of a pre-established measure arranged in a row parallel to the side of the card index, and secondary guide cards having tabs starting from the middle of the tabs of the primary guide cards and extending towards the right in multiples of the modulus.

1,451,215. COOLING SYSTEM FOR HOUSES OR ROOMS. LEWIS A. GOODWIN, Cora, Mo. Filed Sept. 24, 1921. Serial No. 502,917. 2 Claims. (Cl. 98—27.)



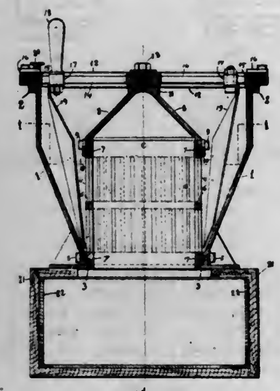
1. The combination with a building, of an underground chamber, a pipe extending from the lower end of the underground chamber up through said chamber and then out into said building and having a plurality of discharge openings, means disposed in the length of the pipe and inward of said discharge end of the pipe for positively drawing air through the pipe from the intake end thereof and discharging it out through said discharge openings, a pipe section leading downward into said underground chamber and having an inlet opening above the ground, and a pipe leading from said building adjacent the floor thereof, extending into the upper end of the underground chamber and discharging into said second named pipe adjacent the inlet end thereof.

1,451,216. DISCHARGE MECHANISM. JOHN R. GRUETTER, Cleveland, Ohio. Filed Apr. 6, 1922. Serial No. 550,074. 21 Claims. (Cl. 198—20.)



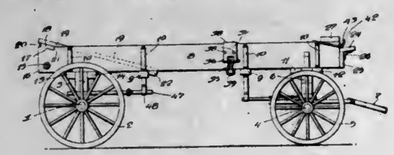
1. In a discharge mechanism for bottles, a support having a row of sockets therein, a swinging member comprising a series of trays arranged side by side, stops at the lower ends of the several trays for supporting the bottoms of bottles thereon, the said trays having slots therein just above the said stops, and the said sockets being of a depth sufficient to receive the stops but not the bottles, a composite transversely reciprocating thrust mechanism including a base member resting on the surface of said support and parallel with the row of sockets but transverse of the plane of said swinging member, lugs at one edge of said base member for attachment of actuating means thereto, and a series of thrust rods extending from the opposite edge of the base and registering with and movable through the slots in said trays when the latter are in the down position, means for actuating the swinging member when the rods are in their withdrawn position, and means connected with said lugs for actuating the thrust members when the trays are in the down position, substantially as set forth.

1,451,217. GRAIN-CUTTING MACHINE. DAVID GUELBAUM, Syracuse, N. Y. Filed Oct. 21, 1922. Serial No. 596,176. 8 Claims. (Cl. 83—6.)



1. A grain cutting machine, comprising a grain hopper with an offset flanged top and a tapered open flanged bottom, a stationary slotted cylinder fastened inside of said hopper, a rotating slotted cylinder with sharp cutting edges telescoping inside of said stationary slotted cylinder, a cone shaped cover holding fast in its bottom the top of said inner cutting cylinder, a hand wheel with its hub fastened to the top of said cone shaped cover and with its rim fitting into the offset flanged top of said hopper and with radial arms connecting said rim and hub, shoveling and thrusting scoops fastened to the radial arms of said handwheel, means for supporting said hopper and for collecting the discharge grain cuttings, substantially as and for the purpose specified.

1,451,218. DUMPING WAGON. JOHN MELUS GLYNN, Newport, Ark., assignor of one-half to John David McLain, Newport, Ark. Filed Mar. 13, 1922. Serial No. 543,504. 8 Claims. (Cl. 298—26.)

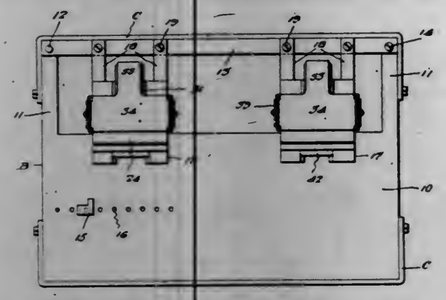


1. In a dumping wagon, a tiltable bed detachably supported for bodily removal downward, suspension means therefor detachably connected with said bed, and means for fastening the front end of said bed against pivotal movement.

1,451,219. AUTOMATIC PUNCHING DEVICE. AUGUST HANSEN, Aberdeen, S. Dak. Filed Nov. 5, 1921. Serial No. 513,117. 5 Claims. (Cl. 164—90.)

1. In combination with the platen of a printing press a punch device comprising a base member secured at a desired location upon the platen and formed with a hole constituting a female die, an offset bracket member carried by the base and defining therewith a paper receiv-

ing slot, said bracket member being formed with a hole registering with said first named hole, an impression plate slidably mounted upon the bracket member and carrying



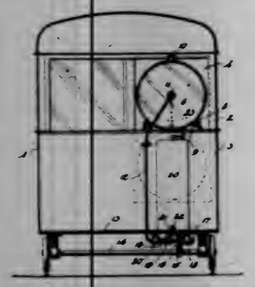
a male die passing through said second named opening and adapted to be projected through said first named opening.

1,451,220. PLAIT FOLDER FOR SEWING MACHINES. JESSE J. HEAP, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1919. Serial No. 337,121. Renewed Mar. 2, 1923. 4 Claims. (Cl. 2—45.)



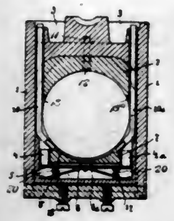
1. A folder for sewing machines including upper and lower guiding members shaped so as to receive, direct and turn underneath the edge portions of a facing strip, the upper member being formed with a recess centrally thereof which increases in width toward the delivery end of the folder, a rib carried by the lower guiding member and located in said recess, a plate carried thereby, said plate and rib being shaped so as to form a plait from the body portion of the facing strip passing through the folder.

1,451,221. WINDOW-CLEANING DEVICE. CLARENCE O. HOFFMAN, Detroit, Mich., assignor of one-half to Louis Schulman, Detroit, Mich. Filed Dec. 1, 1921. Serial No. 519,061. 1 Claim. (Cl. 15—250.)



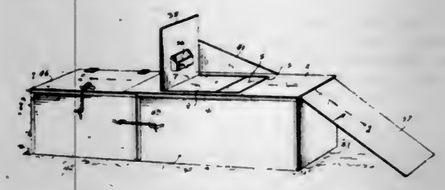
The combination of a window frame, a movable sash therein adapted to be raised and lowered relative to said window frame; a pane of glass rotatably mounted in said sash, a wiper member carried by said sash and engaging said rotary pane of glass, and a driven flexible shaft adapted to have an end thereof inserted in said rotary pane of glass when said sash is in a raised position for rotating said pane of glass.

1,451,222. BEARING. WILHELM HOLTORP, Hamburg, Germany. Filed July 2, 1920. Serial No. 393,746. 6 Claims. (Cl. 64—24.)



3. In a journal bearing, a main lubricant container, means for conducting the lubricant from the container onto the journal, a shoe below the journal having wiping edges engaging the journal, collectors arranged to receive the lubricant from said edges and communicating with the shoe through apertures formed in the latter, and conduits through which the lubricant is conducted from the shoe to the container.

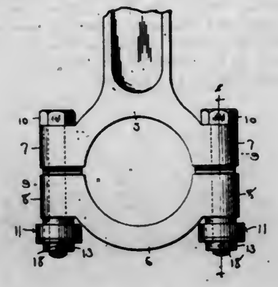
1,451,223. ANIMAL TRAP. ROWLAND G. HOWARD, Jackson, Tenn. Filed Jan. 8, 1921. Serial No. 435,925. 1 Claim. (Cl. 43—70.)



In an animal trap, a housing including a top piece provided with an opening therein, an animal guide extending the full length of said opening, an end wall at one end of the guide, a trap door hingedly mounted at the end of the opening opposite said end wall and having its free unattached end engaging under the top piece at a point beyond the end wall, a gravity actuated latch mounted on and operatively depending through the top piece beyond the end wall for limited movement, and having a shoulder engaging the underlapping part of the trap door to support it closed, gravity means to restore the trap door to its initial position, said trap door having a depression therein equal in width to the animal guide, an animal operated trip hingedly mounted at one end in the depression and adjacent the end wall, a gravity actuated bell crank member pivotally supported on the under face of the depression and operatively connecting with the trip, a latch releasing plunger operatively guided on the under part of the depression and connecting with the bell crank lever, the latch having a cam edge against which the trap door engages to restore it in engagement with the shoulder of the latch, and means to prevent hindering the restoration of the trip when pressure is relieved, when the trap door returns to its initial latched position.

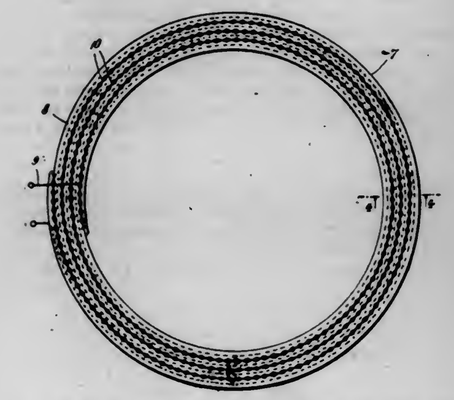
1,451,224. ADJUSTABLE BEARING. ELVY E. JOHNS, Heppner, Oreg. Filed Dec. 28, 1920. Serial No. 433,605. 5 Claims. (Cl. 64—55.)

1. An adjustable bearing comprising a pair of opposed relatively movable bearing parts, a pair of bolts connecting said parts, two pair of resilient elements interposed between said bearing parts and normally tending to separate the latter, the elements of each pair being in abutting engagement and oppositely disposed with respect to each other, said bolts extending through said elements, a sectional nut fitted upon each of said bolts and a resilient



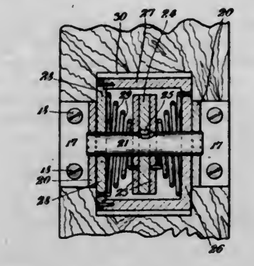
element inclosed by the sections of the nut normally tending to advance one of the sections to draw said parts together.

1,451,225. SEALING RING. ROBERT J. KRAUSE, Japatul, Calif. Filed July 16, 1919. Serial No. 311,196. 8 Claims. (Cl. 215—37.)



1. As an article of manufacture, a sealing ring comprising a spirally wound cord, and a spiral series of stitching entering and connecting the adjacent contacting sides only of the spiral convolutions of said spirally wound cord.

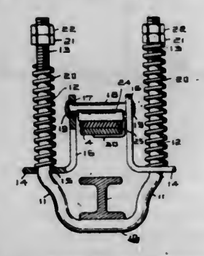
1,451,226. WINDOW-SASH HOLDER. STANLEY LADINSKY, Newark, N. J. Filed June 19, 1922. Serial No. 569,365. 3 Claims. (Cl. 16—201.)



3. In a window sash holder, the combination with a recessed frame and a sash slidable therein, of a rack

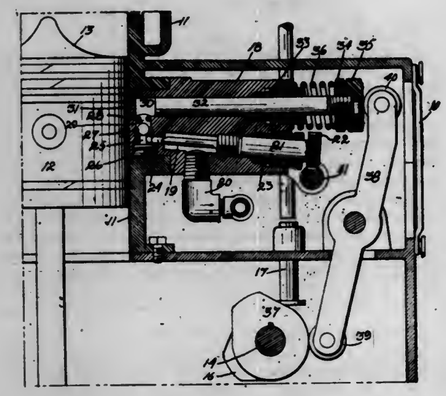
fixed in said frame at the bottom of the recess, one or more brackets carried by said sash, a spindle fixed in said bracket, a hollow gear rotatable on said spindle meshing with said rack, a disc keyed centrally of said spindle, discs rotatable on said spindle engaging the sides of said fixed discs, and opposed torsional springs abutting the outer sides of said loose discs and the inner sides of said gear.

1,451,227. REBOUND ABSORBER. CHARLES H. LANGO, Detroit, Mich., assignor to The Noshok Co., Detroit, Mich., a Corporation of Michigan. Filed Sept. 2, 1922. Serial No. 585,989. 5 Claims. (Cl. 267—28.)



1. The combination with a load carrying axle, a load to be carried, a spring therebetween, of a U-bolt having its U-portion rockably engage the axle, the legs of the U-bolt upstanding from said axle, a pair of L-brackets having eyes therethrough, said L-brackets oppositely disposed between the legs of the U-bolt with a leg of the U-bolt through an eye of each thereof, a ricker pin through the upstanding opposing L-bracket portions, said pin to ride upon the opposite side of the spring from the axle, and a spring for each leg of the U-bolt for resiliently maintaining axle position as to the leaf spring.

1,451,228. FUEL-FEEDING DEVICE FOR INTERNAL-COMBUSTION ENGINES. ARVID G. LARSON, Grinnell, Iowa, assignor to Dodge Tool Company, Grinnell, Iowa. Filed July 26, 1919. Serial No. 313,642. 7 Claims. (Cl. 123—32.)



1. The combination with an internal combustion engine of the piston type, of a means for forming a fuel chamber adjacent to the engine cylinder, there being a restricted passageway leading from said fuel chamber to the interior of the cylinder, the arrangement of said passageway being such that it is normally closed by the piston except when the piston is at the lower or outer end of its stroke, a plunger in said fuel chamber for positively forcing

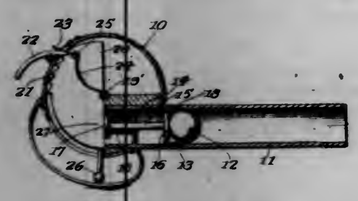
fuel therein through said restricted passageway when the plunger is operated, a means for supplying liquid fuel to said fuel chamber, a one-way valve between the fuel supply and said compartment, normally closed when the plunger moves toward the cylinder, means actuated by the engine for operating the plunger, controllable means for admitting air to the engine, and means for controlling the flow of fuel to the fuel chamber, and means for simultaneously actuating said last means and said controllable means.

1,451,229. TILE MANUFACTURE. EDGAR LEROY LOUDENSLAGER, Toledo, Ohio. Filed June 22, 1921. Serial No. 479,527. 24 Claims. (Cl. 25—42.)



1. The method of producing tiles of the described character, which consists in forming of partially liquefied cement a plurality of closely adjoining symmetrically arranged tile-shaped plaquettes, then, while said material is still soft, connecting such plaquettes by embedding therein a suitable flexible fabric, and then supporting the plaquettes, so connected, in undisturbed relation until sufficiently hardened for use.

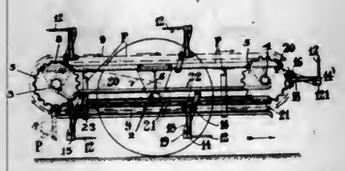
1,451,230. MARBLE SHOOTER. THOMAS J. MAHONEY, Colorado Springs, Colo. Filed Mar. 10, 1921. Serial No. 451,218. 1 Claim. (Cl. 124—1.)



A marble shooter comprising a circular casing having a tube extending from the curved side thereof and intersecting the same, a spring pressed plunger mounted in the tube and extending into the casing, one portion of the curved side of the casing having a slot, a segmental disk mounted for partial rotation within the casing with one end of its flat edge portion disposed for striking engagement with the said plunger, a spring for normally urging the disk into engagement with the plunger, notches in the curved portion of the edge of the disk, and a pivoted spring pressed detent mounted on the casing and releasably engaging the notches, and a handle on the curved portion of the disk movable in said slot.

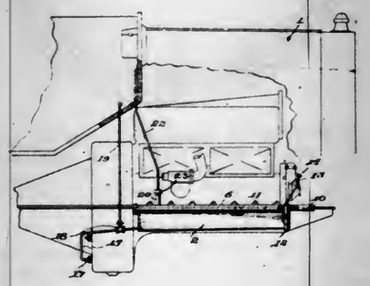
1,451,231. FLAX-PULLING MACHINE. GEORGES MICHOT, Dromara, Ireland, assignor to Fibre Corporation Limited, London, England. Filed July 15, 1920. Serial No. 396,389. 2 Claims. (Cl. 55—66.)

1. A flax pulling machine including a single pair of road wheels, an axle supported by said wheels, a frame carried by the axle and projecting laterally beyond the road wheels, a pair of parallel endless chain belts mounted on the projecting portion of said frame, a plurality of combs carried by the chain belts in such manner that when at the lower side of the chain belts they are disposed for engaging with the stalks of the flax to be pulled, driving means arranged between the axle and chain belts arranged in such manner that the movement of the combs when engaging with the stalks is forward relatively to the ground but rearward relatively to the frame, clearing frames for the combs also carried by the chain belts, and means for effecting movement of the combs relatively to their respective clearing frames when near the rear of the machine for the purpose of depositing the pulled flax on the ground.



2. Means for clearing the pulled flax from the combs of a flax pulling machine as set forth in claim 1, comprising a comb clearing frame in rigid relationship to two opposite links one on each of the two chains, straight guide rails for the lower portions of the chains fixed to the frame of the machine, a pair of levers jointed respectively to the said two links, a comb having its prongs slidable and swingable through the comb clearing frame, pivot joints between the backbone of the comb and the outer ends of the said levers, guide rollers mounted on the inner ends of the said levers, and guide rails for the said rollers fixed to the frame adapted to constrain the comb to move relative to the clearing frame as and when desired.

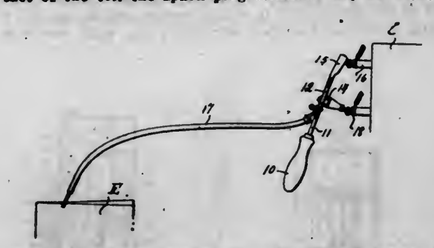
1,451,232. RESERVE OIL TANK AND GAUGE FOR AUTOMOBILES. ALBERT O. MURDOCK, Fort Payne, Ala. Filed Dec. 1, 1921. Serial No. 519,152. 3 Claims. (Cl. 184—105.)



3. The combination with an automobile engine of a reserve oil tank located at the side of the engine, the upper wall of the tank being of greater area than the tank body and extending beyond the same at one side and end, means for attaching the upper wall of the tank to the engine, and a strap for supporting one end of the tank from the timer bolt.

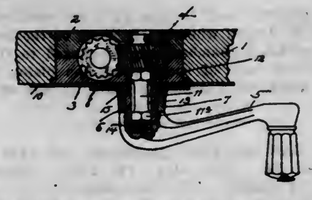
1,451,233. TESTING PROD. WILMER M. NEAR, New Era, Mich. Filed May 18, 1921. Serial No. 470,728. 2 Claims. (Cl. 175—183.)

1. In a device for testing coils and spark plugs, a testing prod comprising a body portion having a threaded opening formed therein adapted for the reception of the threaded portion of the spark plug and so arranged that when an end of the prod is engaged with a primary contact of the coil the spark plug terminal may be engaged



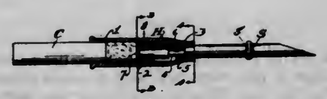
with a secondary contact of the coil, and means for electrically connecting the body portion with the ground of the car.

1,451,234. HANDLE MOUNTING FOR WINDOW REGULATORS. STANLEY W. NICHOLSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed May 20, 1921. Serial No. 471,222. 3 Claims. (Cl. 74—33.)



1. In a device of the character described, the combination with a handle and a member rotatably actuable by said handle, said handle and member being formed with opposed polygonal sockets, of a coupling member having polygonal ends loosely engaging in said sockets, reduced in diameter intermediate said polygonal ends, and means independent of said coupling member maintaining the opposed relation of said handle and actuable member.

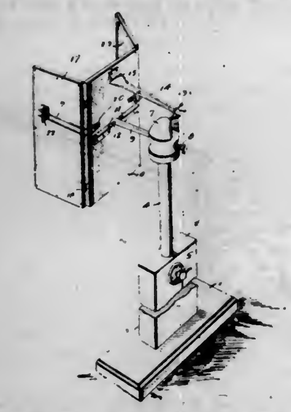
1,451,235. CIGARETTE HOLDER. THOR RAJE, Los Angeles, Calif. Filed Sept. 22, 1920. Serial No. 412,064. 1 Claim. (Cl. 131—10.)



A cigarette holder, comprising a body open at both ends and having one end thereof reduced, a stem slidably held in the reduced end of said body and having an enlargement thereon for engaging the reduced end of said body for preventing the withdrawal of the stem therethrough, and a projection extending inwardly from said enlargement, the opposite end of said body being adpated to receive and hold a cigarette, a member supported within said body and having a sleeve frictionally held on the inner end of said stem, and a lip spaced therefrom for engagement with the inner end of the cigarette, whereby an absorbent element may be held between said lip and the inner end of said stem for filtering the smoke and for ejecting the cigarette from said body when said stem is moved inwardly thereof.

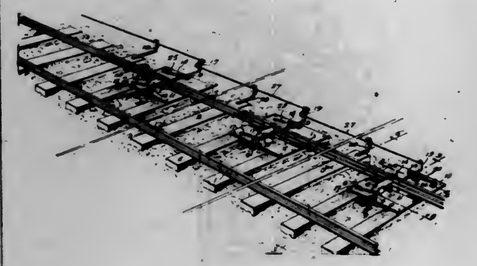
1,451,236. HAIR-DRESSING-MIRROR DEVICE. EARL E. STANFIELD, Helena, Mont. Filed Apr. 8, 1922. Serial No. 550,735. 4 Claims. (Cl. 45—99.)

1. In combination, a main frame, a pair of side frames hinged thereto, a pair of resilient U-shaped braces pivotally mounted on the main frame, and a pair of apertured plates mounted on the side frames for receiving



the braces whereby the side frames may be held in adjusted position in relation to the main frame due to resiliency of the braces.

1,451,237. TRAFFIC SIGNAL. DANIEL SWEENEY, Clarksburg, W. Va., assignor of one-half to Harry B. Kincaid, Clarksburg, W. Va. Filed Nov. 3, 1922. Serial No. 598,787. 4 Claims. (Cl. 246—294.)

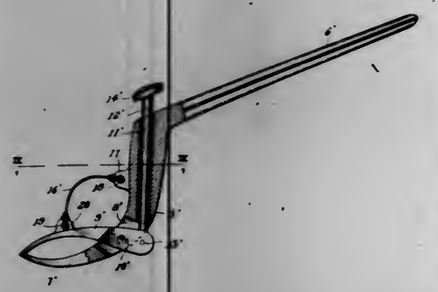


1. In a railroad crossing signal, a signal member shaped to simulate a man, said member being provided with pivoted arms, means for raising said arms, said means comprising an actuating member arranged on the track at a distance from said signal member, connections between said actuating member and said arms, and a bell disposed in the path of said connecting means whereby an audible signal is given when the arms are raised.

1,451,238. STOVE-LID LIFTER. CHARLES SZALAI, Easton, Pa. Filed Apr. 14, 1922. Serial No. 552,694. 4 Claims. (Cl. 294—13.)

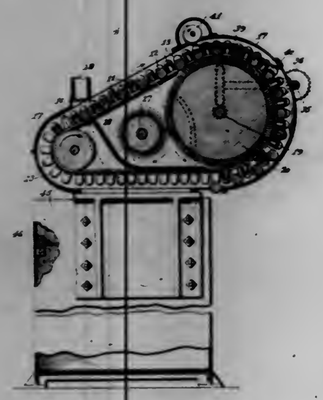
1. A stove lid lifter comprising a body portion having a longitudinal bore with a push rod slidably disposed therein and terminating above the upper end of the body portion and below the lower end of said body portion, a handle integral with and extending rearwardly from one end of the body portion in one direction, a jaw member rigid with the opposite end of the body portion and extending laterally from the latter in the opposite direction, said jaw

member having a transverse recess, a second jaw member pivotally mounted in the recess of the first named jaw member and arranged so that the free ends of said jaw members may clampingly engage opposite faces of the top wall of the under cut grooves of a stove lid, the lower end of the push rod being pivotally attached to the inner



end of said pivoted jaw whereby depression of the push rod will cause swinging movement of the pivoted jaw away from the first named jaw, and yieldable means normally urging the pivoted jaw toward said first named jaw.

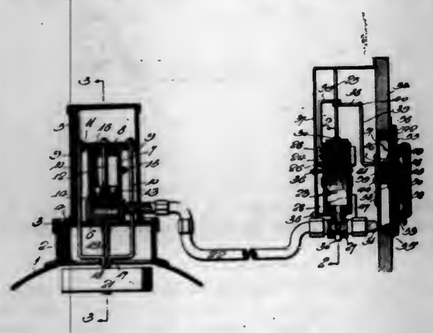
1,451,239. BOBBIN CLEANER. EDGAR ALLEN TERRELL, Charlotte, N. C. Filed Dec. 18, 1920. Serial No. 431,756. 9 Claims. (Cl. 28—19.)



1. In a bobbin-stripping machine, a delinting-device having a curved surface of flexible teeth, means for driving the same, an endless carrier passing around said surface and having compartments for carrying the bobbins, a flexible pressure-device engaging a plurality of the bobbins as they pass around said curved surface to press them lightly against the teeth carried thereby, whereby the bobbins are caused to rotate and the waste yarn delinted therefrom, and means for continuously driving the carrier.

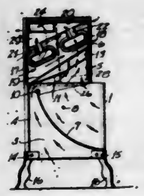
1,451,240. LIQUID GAUGE. WILLIAM M. TULLY, Corpus Christi, Tex. Filed Oct. 27, 1921. Serial No. 510,744. 13 Claims. (Cl. 73—82.)

1. A liquid gauge comprising a pump including a liquid carrying cylinder and a piston therein moving from one end of the cylinder to the other, a chamber supplied with liquid from said pump, an indicator operated by rise and fall of the liquid level in said chamber, and an auxiliary liquid receiving chamber communicating with the first



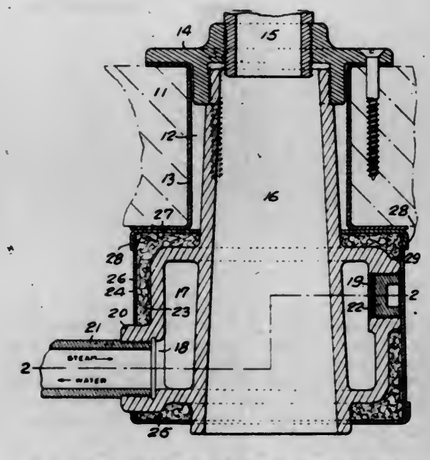
mentioned chamber and varying in cross sectional area throughout its length whereby the level of the liquid in the last mentioned chamber may be caused to rise and fall at an even rate of speed when the piston in the cylinder is moved at a gradually changing rate of speed.

1,451,241. GAS HEATER. CONSTANT VAN SANTVOORT, Waukegan, Ill. Filed Jan. 16, 1922. Serial No. 529,582. 1 Claim. (Cl. 126—86.)



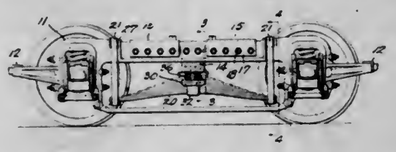
A gas heater comprising two side walls, having openings therein, a heat retaining hood disposed between said walls, legs for supporting said walls, a rear wall extending from the bottom of said side walls and terminating adjacent to the hood, a curved deflector plate extending from the lower front side of said side walls and terminating adjacent to said hood, said plate and rear wall forming an air passage extending from the bottom of the heater to the hood, a gas pipe extending between said side walls and parallel with the upper inner end of said plate, a heat retaining chamber disposed above said hood and between said side walls, two pipes disposed in the transverse air passage formed by the hood and chamber, and having their ends secured to the side walls so as to be alined with the openings in the side walls, stub pipes communicating with the centers of said first named pipes and with the heat retaining chamber, and side heat retaining and conducting compartments carried by said side walls and covering the openings in said side walls, said side walls having other openings placing said side compartments in communication with said hood, with said first named pipes, and with said heat retaining chamber, whereby the heat will take a circuitous path through said heater, said first named chamber having gas outlet openings therein.

1,451,242. NONFREEZING WASTE OUTLET. ERNEST R. VIBERG, Montreal, Quebec, Canada. Filed Nov. 23, 1920. Serial No. 425,980. 10 Claims. (Cl. 137—72.)



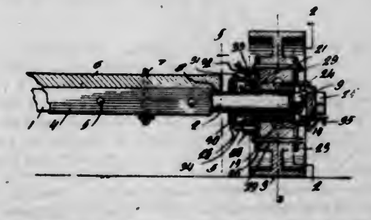
1. A waste pipe outlet having a circumferentially disposed jacket at the lower part thereof, entirely enclosed except for a steam inlet at the lower part of said jacket.

1,451,243. TRUCK CONSTRUCTION. ERNEST R. VIBERG, Montreal, Quebec, Canada. Filed May 2, 1922. Serial No. 557,987. 15 Claims. (Cl. 105—192.)



4. In a device of the class described, the combination of a truck side frame and a semi-elliptic spring disposed in the plane of the side frame, of hangers connecting the ends of said springs to the side frame, said hangers being oscillatable transversely of the plane of the side frame and comprising each a strip of metal bent intermediate its ends over the side frame, the ends of the said strip being bent toward one another and upwardly and a spring saddle supported on the forwardly turned ends of each hanger and supporting the end of the spring.

1,451,244. WHEEL HUB AND AXLE CONSTRUCTION. HARRY WALLACE, Newark, N. J. Filed Oct. 18, 1919. Serial No. 331,558. 3 Claims. (Cl. 301—110.)



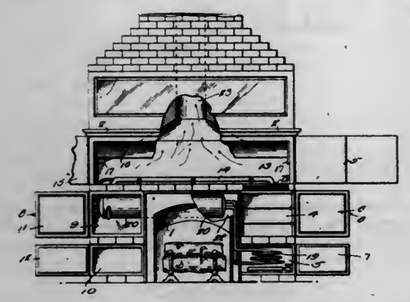
1. In a wheel construction, a hub having an angular opening and a T-way in a wall of the opening, an axle box substantially square in cross section, removably fitted in the opening of the hub and having an L-way to match with a portion of the T-way, a pin insertable in a portion of the matching ways and a key insertable transversely to the wheel in another portion of the matching ways.

1,451,245. GUARD RAIL. ALONZO H. WESTON, Yonkers, N. Y., assignor to American Chain Company, Inc., a Corporation of New York. Filed June 30, 1922. Serial No. 572,102. 11 Claims. (Cl. 238—19.)



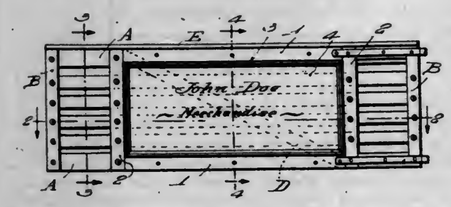
1. In a guard rail structure, a guard rail, means for causing the traffic rail to oppose lateral thrusts on the guard rail and a stop adapted to limit the proximity of the said thrust opposing means to the traffic rail.

1,451,246. SECTIONAL STOVE. EMMA A. WETZEL, Jamaica, N. Y. Filed Apr. 18, 1922. Serial No. 554,452. 2 Claims. (Cl. 126—137.)



1. In a sectional stove and fireplace combined, the combination of a fireplace, compartments arranged adjacent the fireplace, a range compartment positioned over the fireplace, one of the first mentioned compartments functioning as an oven, openings from said oven into the range compartment, a flue disposed directly over the range compartment to dispose of odors from the oven, and a removable screen arranged to conceal the flue, substantially as shown.

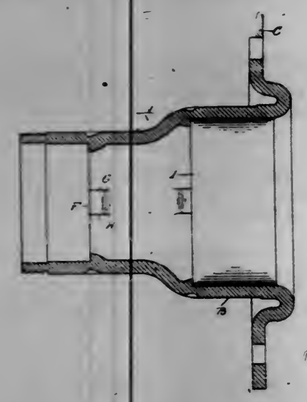
1,451,247. GATE. BENJAMIN F. WEYMER, Cedar Rapids, Iowa. Filed July 13, 1922. Serial No. 574,656. 1 Claim. (Cl. 256—73.)



A gate comprising a plurality of horizontal vertically spaced pieces connected together by pairs of opposite vertically disposed intermediate and end bars, upper and

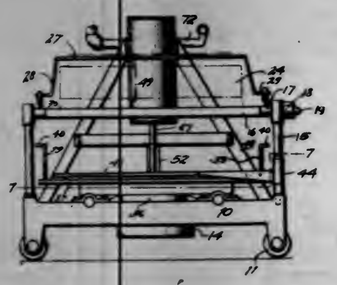
lower horizontal supplemental strips arranged between the intermediate bars on one side of the gate, thus forming a rectangular frame on this side, a sheet of metal arranged in the frame and having its edges directed at right angles to form flanges bearing against the frame members, and a second frame constructed of pieces of molding engaging the flanges to reinforce them.

1,451,248. WHEEL HUB. JOHN R. WINTER, Lansing, Mich., assignor to Kelsey Wheel Company, Detroit, Mich., a Corporation of New York. Original application filed Aug. 31, 1914, Serial No. 859,571. Divided and this application filed Jan. 30, 1920. Serial No. 355,130. 4 Claims. (Cl. 301—105.)



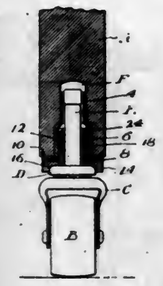
1. A wheel hub comprising a cylindrical shell having an inwardly offset segment forming at one end a square shoulder and at all sides a sealing connection with the adjacent portions of the shell.

1,451,249. MOLDING MACHINE. FRANZ J. WOOD, Des Moines, Iowa. Filed Jan. 2, 1920. Serial No. 349,039. 8 Claims. (Cl. 22—26.)



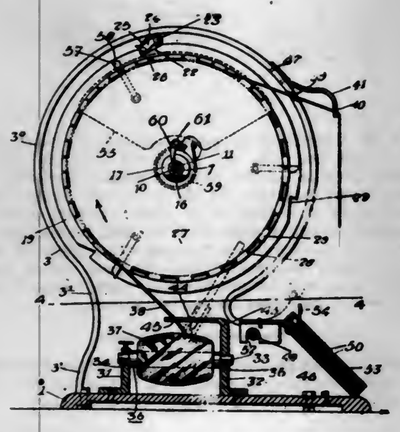
1. In a molding machine; a frame; means at the upper part of said frame for supporting patterns in inverted position; a mold table below said means; and mechanism for raising and lowering said mold table, said mechanism being adapted to move said table upwardly with relatively less speed and greater power during the latter part of its upward movement, and including adjustable means for regulating the speed of the lowering movement of the table.

1,451,250. CASTER. LOUIS M. BEEBE, Kansas City, Mo. Filed Mar. 22, 1922. Serial No. 545,720. 1 Claim. (Cl. 16—19.)



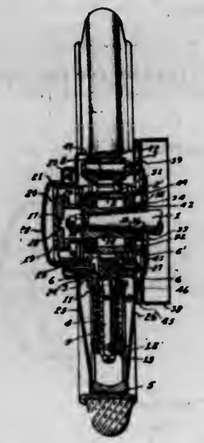
In combination with a piece of furniture equipped with casters having vertically extending shanks and ball-bearings, a tubular member adapted to seat in a counterbore in the furniture and having a reduced upper portion to snugly embrace the shank of the caster and an enlarged internally threaded lower portion, an adjustable member threaded into the enlarged lower portion of said tubular member, and a marginal flange at the lower end of said adjustable member provided with a seat to receive the upper portion of the ball-bearing of the caster, substantially as described.

1,451,251. COMBINATION STRING HOLDER AND ADVERTISING DEVICE. ROBERT HOWARD BIGGS, St. Catharines, Canada. Filed Aug. 3, 1922. Serial No. 579,468. 7 Claims. (Cl. 40—71.)



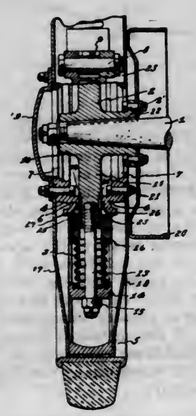
1. In a combination string holder and advertising device, a casing, a mounting located within the casing and upon which a ball of string is turnably carried, a pulley member mounted within the casing to rotate in a vertical plane above the mounting of the ball of string and over which the free strand of the string is adapted to pass, a turnable member having a face set vertically and bearing a series of advertisements on such face adapted to be successively carried by the turnable member from an unexposed to an exposed position, and means for automatically operating the turnable member as each length of string is drawn off the ball around the pulley.

1,451,252. VEHICLE WHEEL. NOAH CORNFIELD, Detroit, Mich., assignor to Acme Cushion Wheel Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 11, 1920. Serial No. 416,133. 19 Claims. (Cl. 152—44.)



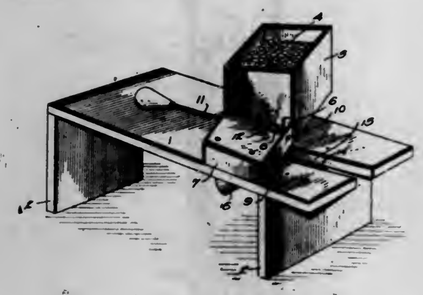
1. The combination with a driven spindle, of a wheel, comprising a rim, coil springs within said rim and rotatable therewith, a support fixedly secured to said rim, a spider block upon said driven spindle and slidably engaging said support, said spider block having arms surrounded by said coil springs, abutments at the outer ends of said coil springs sleeved upon said arms, and abutments at the inner ends of said coil springs sleeved upon said arms and slidably engaging the periphery of said support.

1,451,253. VEHICLE WHEEL. NOAH CORNFIELD, Detroit, Mich., assignor to Acme Cushion Wheel Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 11, 1920. Serial No. 416,134. 3 Claims. (Cl. 152—44.)



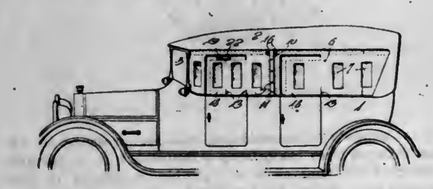
1. The combination with an axle, of a wheel, comprising a rim, a spider block keyed upon said axle and having outwardly extending arms, coil springs within said rim, support plates upon opposite sides of said block, disks connecting said plates to said rim, abutments for the inner ends of said springs slidably engaging said plates and sleeved upon said arms, and abutments for the outer ends of said springs connected to said arms.

1,451,254. FRUIT PITTER. WAYNE M. CRUZAN, Eureka, Kans. Filed Sept. 21, 1922. Serial No. 589,630. 2 Claims. (Cl. 146—5.)



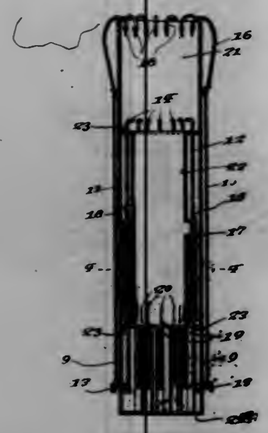
1. A fruit pitter comprising a receptacle provided with a discharge opening in one side and having a sloping bottom whereby fruit is fed toward said opening, a block arranged adjacent said receptacle and provided with a pitting chamber arranged adjacent said discharge opening to receive the fruit therefrom, a plate forming a closure for the forward end of said pitting chamber and provided with an opening, and a plunger journaled in said block in alinement with the opening in said plate, said plunger being provided with prongs adapted to retain the fruit thereon upon removal of the pit, said prongs being adapted to project through the opening in said plate upon inward movement of said plunger to eject the pit and to contact with the rear wall of said pitting chamber upon outward movement of said plunger to limit the movement of the plunger and remove the pitted fruit therefrom, said pitting chamber being provided in its bottom with an opening adjacent the rear wall of said pitting chamber for the passage of the pitted fruit.

1,451,255. AUTOMOBILE CURTAIN. FREDERICK J. DREKMEIER, Beloit, Wis. Filed Sept. 26, 1921. Serial No. 503,306. 2 Claims. (Cl. 296—138.)



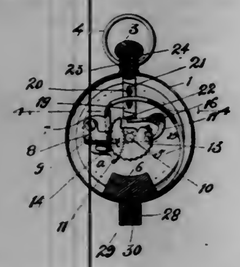
1. The combination with a vehicle body provided with an upwardly opening curtain pocket, of a flexible side curtain normally folded and positioned in said pocket, an arm attached to said curtain and normally lying horizontally at the upper end of said pocket, said arm being hinged at one end to the vehicle body at a point adjacent said pocket so as to swing upwardly and withdraw said curtain from said pocket, means for holding said arm in upright position to permit easy unfolding of said curtain, a rod carried by said arm adjacent the other end thereof, said rod extending laterally from said arm and having said curtain secured thereto whereby to support said curtain in an upright position when said arm is in its upright position, and means for securing said curtain in place at the side of the vehicle.

1,451,256. FISHHOOK HOLDER. WILLIAM C. GARDNER, Ardmore, Okla. Filed May 15, 1922. Serial No. 561,180. 4 Claims. (Cl. 43—22.)



1. A fish-hook holder comprising a body portion having longitudinal slots adjacent one end thereof, spring actuated rods carried by one side of said body portion, inwardly directed hooks at one end of said rods and extending through said slots, and a fish-hook engaging portion at the other end of said body portion.

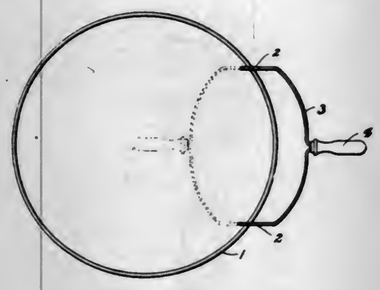
1,451,257. PRESSURE GAUGE. WILLIAM P. HAMMOND, Passaic, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed June 20, 1911. Serial No. 634,225. 6 Claims. (Cl. 73—109.)



1. A gauge for ascertaining the air pressure in applied inflated tires comprising a Bourdon tube, a movable pressure indicating element operably connected to said Bourdon tube, means for retaining said indicating element in a position in which it is moved by said Bourdon tube, means for temporarily establishing a pressure communicating connection between the tire valve and Bourdon tube, said means including a press on resilient member, adapted to form a substantially air tight connection with the tire valve casing when pressed against it, a fixed presser foot associated with said resilient seat and adapted to depress the tire valve plunger and means operable to cause the restoration of said indicating element to zero position, said latter means including a push member operable from the exterior of the gauge casing.

3. A portable pressure gauge for pneumatic tires, including a casing, a seat projecting from one side of the casing and adapted to engage the valve casing of a pneumatic tire, means upon the seat for automatically opening the tire valve when the gauge is applied thereto, a tubular stem projecting from the opposite side of the casing, a cap upon the tubular stem, indicating means within the casing, means responding to pressure for operating the indicating means, means for holding the indicating means against backward movement, and a slide passing through the tubular stem and connected to the cap for releasing the indicating means.

1,451,258. HOOP. EDWARD HANNER, Philadelphia, Pa. Filed Nov. 1, 1920. Serial No. 421,036. 1 Claim. (Cl. 46—38.)



The combination with a toy hoop of a one piece handle comprising a yoke having parallel arms with comparatively large terminal eyes loosely engaged by the hoop, said eyes being adapted to be opened and closed to provide for the application and removal of the yoke, and a rigid hand grip extending from the yoke in a direction opposite to the arms and equi-distant between them and in a plane parallel therewith, said hand grip, yoke and arms lying in the same plane.

1,451,259. TOWER. NORMAN T. HARRINGTON, Cleveland, Ohio. Filed June 14, 1920. Serial No. 388,909. 27 Claims. (Cl. 212—73.)

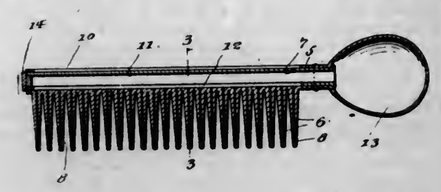


1. The combination of an angularly movable tower, a cable way attached at one end to the tower and anchored at its other end, the line extending through the anchorage and the center of rotation of the tower forming an appreciable angle with the ground line, and a hold-down cable extending from a bearing point on the tower to points on opposite sides of the central vertical plane on the tower, the anchoring points of the cable way and the anchoring points of the holddown cable being so disposed relatively to the tower that the distance between the anchoring point of the cable way and its point of attachment to the tower remains substantially invariable, and that the sum of the distances between the anchoring points of the hold-down cable and its bearing point on the tower remains substantially constant for all angular positions of the latter.

1,451,260. COMB. HENRY TUFFTS HOLLAND, Winfield, N. Y. Filed Nov. 17, 1921. Serial No. 515,897. 1 Claim. (Cl. 132—13.)

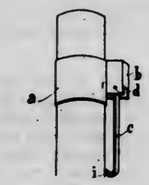
A comb comprising a hollow back having a longitudinal slit, teeth extending from the back and provided with

ducts opening at one end into the back and at their other ends through the outer ends of the teeth, the aforesaid slit



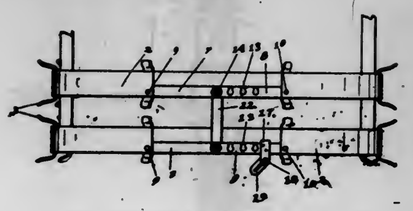
being in line with the first-mentioned ends of the ducts, and a reservoir removably mounted in the comb back and discharging into the ducts.

1,451,261. FOUNTAIN-PEN SPRING SAFETY CLIP. GUSTAVE PIERRE JALLIER, Paris, France. Filed Aug. 31, 1920. Serial No. 407,241. 2 Claims. (Cl. 24—11.)



1. A safety clip for fountain pens and the like, comprising a ring having a box on one side, an arcuate spring in the side of said box next the ring, and a lever pivotally mounted near its inner end, in said box, said lever having an engaging point at its outer end and having at its inner end an arm, arranged at an angle thereto and bearing against said spring.

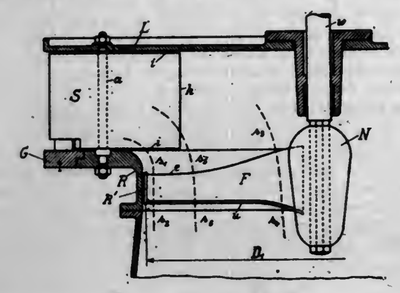
1,451,262. TIRE CARRIER. ABEN E. JOHNSON and LEO H. TAFFEE, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich. Filed Apr. 30, 1920. Serial No. 377,954. 7 Claims. (Cl. 224—29.)



6. In a tire carrier, the combination of split tire supporting rings, a support on which said rings are mounted to permit their being contracted and expanded, pairs of links pivotally connected to the ends of said rings and to each other, and a link connecting said pairs of links engaged with the connecting pivots thereof whereby they are simultaneously operated.

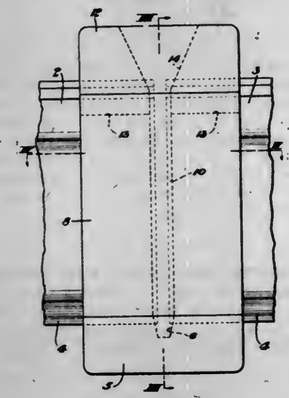
1,451,263. WATER TURBINE. VICTOR KAPLAN, Brunn, Czechoslovakia. Filed Sept. 1, 1921. Serial No. 497,749. 8 Claims. (Cl. 253—155.)

1. In a water turbine, a runner wheel comprising a hub of small diameter and a plurality of blades secured to said hub, the outer portions of said blades having wing-shape and the inner portions cell-shape, in combination with a



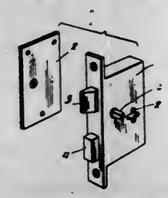
guide wheel of any desired construction and inflow direction.

1,451,264. MOLD OR FORM. HENRY F. A. KLEINSCHMIDT, Johnstown, Pa., assignor to The Lorain Steel Company, a Corporation of Pennsylvania. Filed June 4, 1921. Serial No. 475,071. 4 Claims. (Cl. 219—4.)



1. A mold adapted to surround two spaced apart pieces at their approximate ends and having a vertically disposed transverse slot, open at its upper end and in communication with the space between said pieces, said slot having its back wall shaped to the approximate contour of the side walls of said pieces and spaced therefrom.

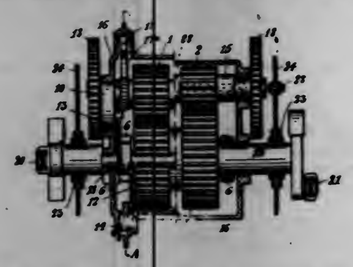
1,451,265. LOCK. WILLIAM H. LANDING, Santa Ana, Calif., assignor of one-half to Al Lindsey, Santa Ana, Calif. Filed Apr. 4, 1922. Serial No. 549,583. 4 Claims. (Cl. 70—74.)



1. In a lock, the combination of a lock case provided with a cruciform keyhole, a latch mounted in the lock

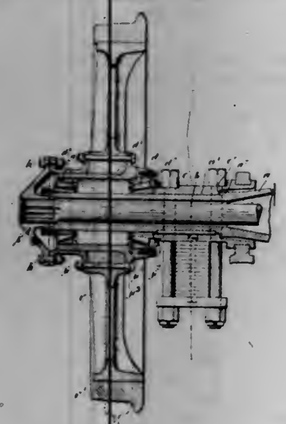
case above said keyhole, a bolt slidably mounted in the case below the keyhole, said bolt when retracted being adapted to partly cover the keyhole, means for projecting the latch, yieldable means for holding the latch projected, and yieldable means for holding the latch and the bolt normally retracted, the means for holding the latch projected being releasable by a key fitted in the keyhole in one position and the bolt being constructed to be projected by the same key inserted in the keyhole in another position.

1,451,266. REVERSIBLE GEARING. FREDRIK LJUNGSTROM, ISIDOR BROBERG, and ERIK OTTO ERIKSSON, Stockholm, Sweden, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Filed Nov. 4, 1921. Serial No. 512,998. 5 Claims. (Cl. 74—58.)



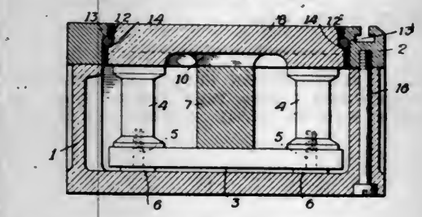
1. In a reversible gearing, a relatively stationary frame, a housing, arms swingably mounted in said housing, a lay- shaft journaled in said arms, a driven gear on said shaft, bearing links for said shaft pivoted to said frame and mounted for awinging movement, a driving gear adapted to be operatively engaged by the first mentioned gear, and an intermediate gear associated with the first and second named gears, the several gears being arranged within said housing.

1,451,267. WHEEL MOUNTING FOR MOTOR-PROPELLED RAILWAY CARS. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 5, 1921. Serial No. 519,836. 2 Claims. (Cl. 295—36.)



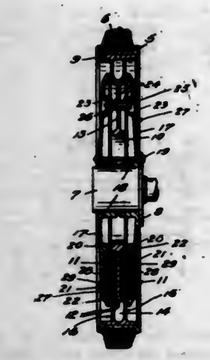
1. In a self-propelled motor-railway car, a dead axle tube of conventional automobile design, a live axle section mounted rotatably therein, said tube and section being shortened to adapt them to car rails of standard gage, means carried on the tube for seating a spring, wheel bearings mounted outside of said seat on the dead axle tube, one of said bearings having its inner race in abutment with the edge of said seat, a flanged car wheel mounted on said wheel bearings and means to connect the car wheel operatively with the live axle section.

1,451,268. MAGNETIC CHUCK. RALPH L. MORGAN, WINFRED S. GRIFFITH, and EDWIN CHURCHILL, Jr., Worcester, Mass., assignors, by mesne assignments, to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1919. Serial No. 280,795. 2 Claims. (Cl. 175—367.)



1. In a magnetic chuck, a work holding face comprising a framework, a plurality of pole pieces disposed within said framework, non-magnetic filling material separating said pole pieces from each other and from said framework, and a locking and spacing member of non-magnetic material embedded in said filling material and interposed between the ends of said pole pieces and said framework, said framework and said pole pieces having opposite shoulders in contact with said member.

1,451,269. RESILIENT WHEEL. HARRY M. PATCH and RICHARD R. ROMNEY, Seattle, Wash., assignors to Ellis Resilient Wheel Corporation, Seattle, Wash., a Corporation of Washington. Filed Oct. 4, 1920. Serial No. 414,625. 6 Claims. (Cl. 152—28.)

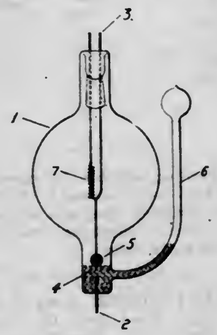


2. In a vehicle wheel, the combination with a casing comprising two outer plates, a hub rigidly secured to said plates, and a felly member having a web element interposed between said casing plates, said plates and web element being provided with opposing cavities, of means extending through said web element and disposed adjacent to the outer peripheries of said plates for maintaining the latter at definite distances apart and resilient disks provided within the complementary cavities of the plate and web member and bearing against the end walls of said cavities and tending to maintain said member midway between the adjacent plates.

1,451,270. PRODUCTION OF COLORING MATTERS. WILLIAM JACKSON POPE, Holmesdale, Cambridge, England, assignor of one-half to Scottish Dyes Limited, Carlisle, Cumberland, England. Filed Sept. 17, 1920. Serial No. 410,913. 10 Claims. (Cl. 260—31.)

1. A process for the manufacture of N-dihydro-1 : 2 : 1' : 2'-anthraquinoneazine which consists in acting on 2-aminoanthraquinone by fused caustic potash in the presence of a salt of an organic acid which is miscible in a fused state with the alkali and subsequently isolating the dyestuff by oxidation.

1,451,271. VAPOR ARC LAMP. HARVEY C. RENTSCHLER, Wilkinsburg, Pa., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 27, 1919. Serial No. 279,583. 9 Claims. (Cl. 176—1.)



1. An arc device comprising an evacuated envelope containing argon and including a mercury cathode and a refractory anode, whereby an arc is obtained having a rising characteristic.

1,451,272. DELIVERY PIPE FOR HYDRAULIC DREDGING MACHINES. ARTHUR W. ROBINSON, Montreal, Quebec, Canada. Filed Oct. 1, 1921. Serial No. 504,809. 1 Claim. (Cl. 137—75.)



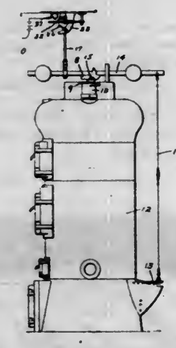
In a delivery pipe for hydraulic dredges a radially and spirally arranged rifling rib made of rolled angle iron and extending from end to end of the pipe, one angle arranged radially of the pipe, the other acting as a base and immovably fastened to the interior of the pipe, the front end of the radial angle being beveled off.

1,451,273. LOOSE-LEAF BINDER. HERMAN RUBIN, New York, N. Y. Filed Apr. 15, 1922. Serial No. 552,994. 1 Claim. (Cl. 129—13.)

A loose leaf binder comprising a sectional transversely expandible frame, telescoping sheet retaining spring-actuated members carried by the sections of said frame, a rack formed with ratchet teeth on one of the sections of said frame, a casing fixed to said section to envelop said rack, a spring-actuated pawl pivotally suspended from the other section to cooperate with said ratchet and a rod extending through said casing and outwardly from said frame and formed at its inner end with a shoulder capable of engaging said pawl when moved inwardly to thrust said pawl away from said rack and permit the sections of said frame and said members to instantaneously expand.



1,451,274. AUTOMATIC BOILER CONTROL. EDMUND G. SHADER, Brockton, Mass. Filed Apr. 25, 1922. Serial No. 556,444. 7 Claims. (Cl. 236—51.)



1. Locking and releasing mechanism for the damper-operating lever of an automatic boiler control, said mechanism comprising a holder adapted to be attached to a support above a boiler, a movable detent and a movable tripping device, each pivoted on the holder, the detent being normally held in position to lock the tripping device, and displaceable from said position, a bar having means at one end for engagement with said lever, guided in a vertical path by the holder, and yieldingly pressed toward the tripping device, the detent and the tripping device having complemental interengaging means whereby the tripping device may be locked when the detent is in its normal position, the bar and the tripping device having complemental interengaging means adapted to lock the bar against downward movement when the tripping device is locked, and to permit free upward movement of the bar, and detent displacing means operable from a distant point to displace the detent, and thereby release the tripping device and the bar, the arrangement being such that when the tripping device is locked and the bar raised, the lever is locking in its damper-closing position, and when the tripping device is released, the bar drops and permits the lever to open the damper.

1,451,275. SUCKER-ROD SLIP SOCKET. ERNEST J. SHAFFER, Tulsa, Okla. Filed Dec. 24, 1921. Serial No. 524,689. 5 Claims. (Cl. 294—102.)

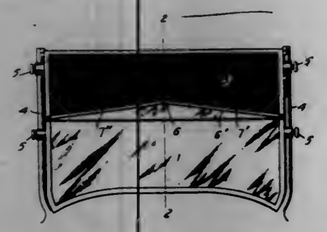
1. A slip socket comprising, in combination, a cylindrical barrel, a fixed jaw secured within the barrel along one side thereof, a guide plate secured within the barrel in opposed relation to the fixed jaw, the guide plate hav-

ing a portion that is inclined downwardly and inwardly toward the jaw, a slip having a tapered portion co operating with the inclined portion of the guide plate and



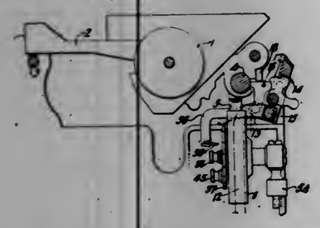
provided with means interlocking with a slot in the guide plate whereby the slip is retained against dislodgment from said plate.

1,451,276. RAIN SHIELD. WALTER L. SMITH, New York, N. Y. Filed Feb. 19, 1921. Serial No. 446,482. 6 Claims. (Cl. 296—97.)



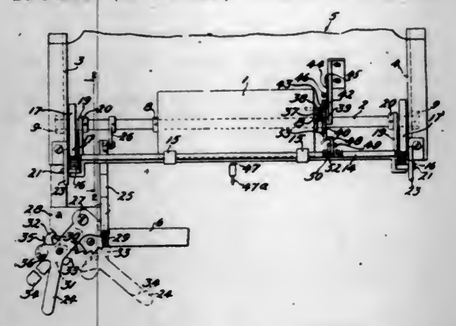
1. In a front shield for automobiles, in combination, a substantially vertical wind shield, an auxiliary rain shield arranged at an angle thereto, said auxiliary shield having a lower edge inclined downwardly from an intermediate point toward the ends of said shield, and gutter means fixed closely adjacent said lower edge to prevent the drip of rain therefrom.

1,451,277. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 7, 1921. Serial No. 467,717. 21 Claims. (Cl. 197—64.)



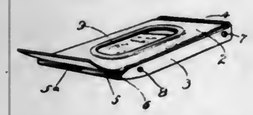
1. In a typewriting machine, in combination, a carriage, letter-feeding means therefor comprising a spring-drum having a cup-shaped compartment in its front wall, a retarding device mounted in said compartment, tabulating means, and means whereby said retarding device may be made effective by said tabulating means.

1,451,278. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 12, 1921. Serial No. 468,822. 24 Claims. (Cl. 197—135.)



1. In a typewriting machine, in combination, a rotatable platen, a work-holder, means for feeding said work-holder past the printing line, and normally ineffective means effective upon a return movement of said holder to cause the platen to creep.

1,451,279. TICKET HOLDER. JOHN E. STRIETELMEIER, Cincinnati, Ohio. Filed June 19, 1919. Serial No. 305,238. 1 Claim. (Cl. 206—39.)



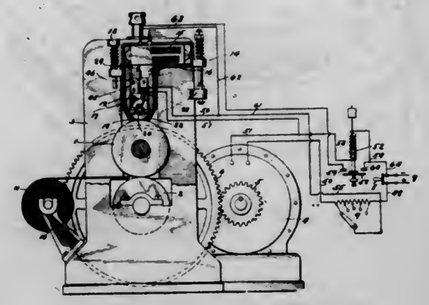
In a ticket box, two sections therefor, each made up of one piece and having a delivery orifice left between them at one end, a sloping wall leading to said orifice in one of the sections, a slot in the other section for pushing on the tickets, with the material of the portion having the sloping wall provided with sides cut away adjacent the orifice to allow for the roughened edge tickets.

1,451,280. MILL. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., and WILLIAM WESTERMAN, Detroit, Mich. Filed Oct. 8, 1920. Serial No. 415,513. 9 Claims. (Cl. 235—92.)



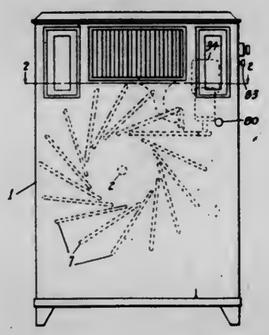
1. In combination, an indicating device for indicating the travel of a moving part of a mill, an indicating device for indicating the amount of material passed through said mill, said last-named indicating device being provided with an electric clutch adapted to be energized by closing of a circuit due to movement of a part of a mill when the material is passed into said mill.

1,451,281. INDICATOR. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., and WILLIAM WESTERMAN, Detroit, Mich. Original application filed Oct. 8, 1920, Serial No. 415,512. Divided and this application filed Dec. 24, 1921. Serial No. 524,620. 5 Claims. (Cl. 235—92.)



3. An indicator, comprising indicating elements, a drive shaft, permanent connections between said drive shaft and one of said indicating elements, an electric clutch for connecting the other of said indicating elements to said drive shaft, a magnetizable device for connecting said drive shaft to the driving means for said indicating elements, said clutch and magnetizable device receiving their energy from a common source.

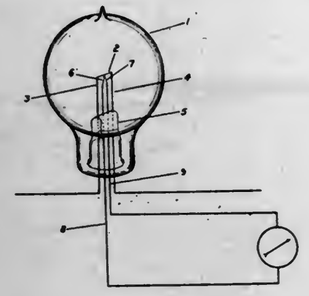
1,451,282. MAGAZINE PHONOGRAPH. LOUIS J. THON, Marshfield, Wis. Filed June 16, 1921. Serial No. 477,963. 23 Claims. (Cl. 274—10.)



11. A disk record magazine for phonographs comprising a wheel and a plurality of turn tables mounted thereon in a tangential overlapping stepped relation.

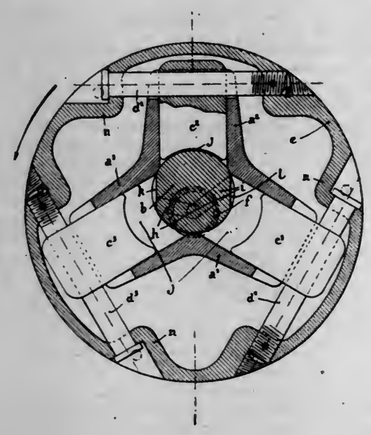
1,451,283. THERMOCELL. JAMES L. WEATHERWAX, Wilkinsburg, Pa., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 27, 1919. Serial No. 279,506. 6 Claims. (Cl. 171—95.)

1. The method of controlling the functioning of a thermo-cell which consists in regulating the temperature of a heater element in contact with a thermo-couple by adjusting the pressure of an inert gas surrounding said element.



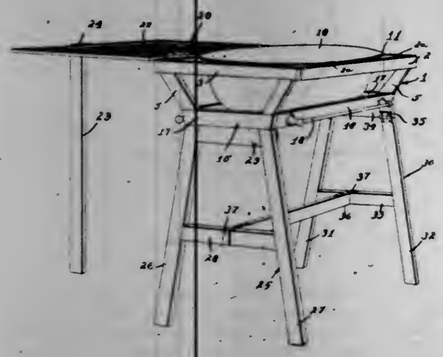
5. The combination with a source of current and a meter, of a thermo-cell comprising an envelope having a heater element mounted therein and adapted to be electrically heated, a thermo-couple connected to said heater element and a gas within said envelope capable of quickly establishing a thermal equilibrium by rapidly conducting the heat away from the heater element, thereby quickly effecting a steady deflection upon a meter included in a circuit energized by the thermal electro-motive force resulting from an electric current traversing the heater element.

1,451,284. ROTARY APPARATUS OPERATING AS PUMP OR MOTOR. PAUL VOREAUX and RAYMOND BABEL, Paris, France. Filed Aug. 10, 1920. Serial No. 402,726. 1 Claim. (Cl. 103—161.)



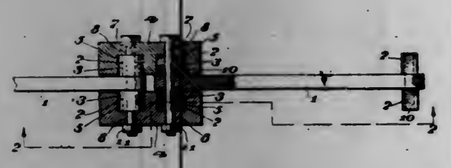
A rotary apparatus operating either as compressor or motor, comprising a fan-shaped cylinder combination, a stationary hollow shaft having the said cylinder combination rotatable thereon, intake and delivery passages provided in the stationary shaft, a main casing rotatable about an axis having an eccentric disposition with reference to the axis of rotation of the said cylinder combination, rods rigidly secured to the said casing and having the said pistons slidable thereon, a valve disposed at the end of the delivery passage of the said stationary hollow shaft, an auxiliary intake passage disposed within the hollow shaft and provided with valves, and an auxiliary delivery passage disposed within the hollow shaft and provided with valves.

1,451,285. FOLDABLE NURSERY TABLE. DE WITT CLINTON WARD, Rochester, N. Y. Filed Apr. 6, 1922. Serial No. 550,044. 1 Claim. (Cl. 45—38.)



In a table of the class described, a frame including a rectangular skeleton top having triangular corner plates to form combined top braces and article supports, a similarly shaped smaller top located below and spaced from the first mentioned top, brace bars connecting said tops, a cover hinged at one side edge to one side of the first mentioned top, said cover having a flexible central portion, a detachable leg for holding said cover in operative position, folding legs hinged to the ends of said smaller top and a detachable brace engaging said legs to hold them in operative position.

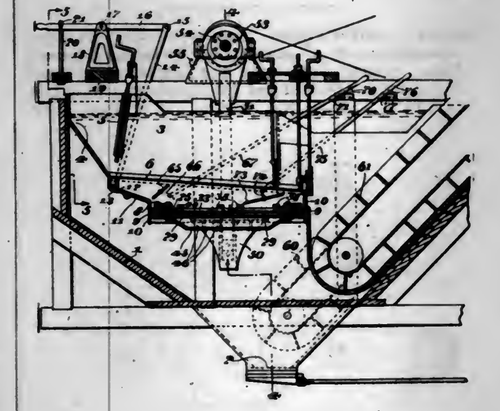
1,451,286. DRIVE CHAIN. GEORGE W. WILMOT, Hazleton, Pa., assignor to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed Sept. 1, 1920. Serial No. 407,364. 5 Claims. (Cl. 74—32.)



1. A drive chain comprising links, each of which consists of a single bar having laterally extending projections at its opposite ends, connecting blocks situated on opposite sides of adjacent end portions of adjoining links, said blocks having adjacent sockets into which the said projections extend, and bolts extending through said connecting blocks and said projections for connecting the said blocks and adjacent ends of adjoining links.

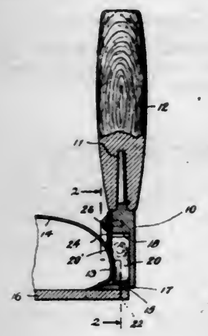
1,451,287. COAL JIG. GEORGE W. WILMOT and FRANCIS H. BLATCH, Hazleton, Pa., assignors to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1922. Serial No. 590,593. 9 Claims. (Cl. 83—79.)

1. A coal or ore washing machine comprising a reciprocating plunger for causing a flow of water upwardly through the coal or ore to be washed, the said plunger including a plurality of bars arranged in spaced parallel relation to each other, the upper and lower edges of which



bars are wedge-shaped, and tubular valves situated between the opposing tapered sides of the upper edges of adjacent bars, substantially as described.

1,451,288. SHOE TOOL. LOUIS BONELLI, Upper Montclair, N. J. Filed June 7, 1922. Serial No. 566,530. 6 Claims. (Cl. 12—103.)

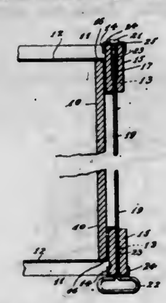


1. A shoe tool of the nature set forth comprising a rigid body having a guide lip projecting downward along one side and beyond the main portion thereof, said body having a slot formed therein at an angle to the lipped side thereof, and a cutting blade fitted in said slot with its edge projecting below the body and terminating in a plane between the bottom of the main portion of the body and the free edge of the lip.

1,451,289. DRUM. WILLIAM CHRISTIAN, Bridgeport, Conn. Filed Aug. 19, 1921. Serial No. 493,564. 2 Claims. (Cl. 84—411.)

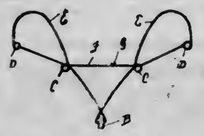
1. A drum comprising a shell, drum heads upon the ends thereof, each of said drum heads consisting of a piece of drum head material having slack therein and a rim constituted by a pair of rings between which the

marginal edge of said material is permanently secured, and clamp devices for fastening the rims upon the shell



and for removing the slack from the drum head material, said clamp devices extending through the material of the rims.

1,451,290. NECKTIE HOLDER. JOHN T. CLARK, Provo, Utah. Filed Dec. 27, 1921. Serial No. 524,840. 1 Claim. (Cl. 24—56.)



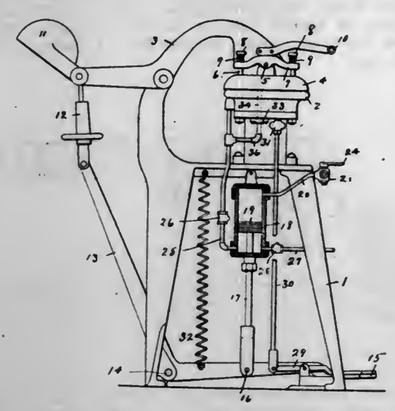
A neck tie holder comprising a piece of spring wire having a button engaging loop medially therein and with the sides of said loop spaced apart to engage the shank of a collar button, the end portion of said loop extended and bent forwardly and inclined downwardly, a side loop in each free end of said wire, an eye loop on each end of said wire, a curve formed in each end portion of said wire between each of said side loops and the respective eye loops, and a flexible cord passed through each of said side loops and engaging the eye loops and on which a neck tie is to be knotted.

1,451,291. TIRE ALARM. ELMER E. DARLING, Salt Lake City, Utah. Filed June 14, 1920. Serial No. 389,049. 2 Claims. (Cl. 116—34.)



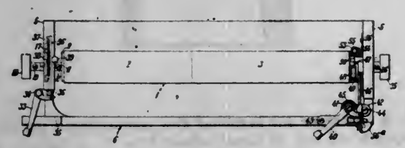
2. In a tire alarm the combination with a pneumatic tire and rim on which it is used, of a spring flexibly connected at one end to said rim, and a thin metal strip flexibly connected to the other end of said spring, and adapted to have a portion held between said tire and rim when the tire is inflated, and to be released by the tension of said spring and rotation of the wheel of the vehicle when the tire is deflated in order that the released portion of spring and strip may contact with parts of the vehicle as an alarm.

1,451,292. STEAM GARMENT-PRESSING MACHINE. JACOB DASHEW, Baltimore, Md. Filed July 27, 1921. Serial No. 487,831. 1 Claim. (Cl. 68—9.)



A garment pressing machine comprising a frame, a stationary buck secured to the said frame, a chamber removably secured to the lower surface of the stationary buck, pipes leading from said chamber to the upper surface of the stationary buck, an arm pivoted to said frame, a buck secured to the outer end of said arm and adapted to be raised and lowered thereby, a cylinder secured to said frame, a pipe leading from the said stationary buck to the bottom of said cylinder and provided with a check valve, an outlet pipe leading from the bottom of the said cylinder and provided with a check valve, a valve communicating with and adapted to control the admission and discharge of fluid pressure to and from said cylinder, a piston within said cylinder and having its piston stem projecting therefrom, and means connecting said piston stem with the said arm whereby when the said piston is operated the arm will rock on its pivot to reciprocate the buck carried thereby.

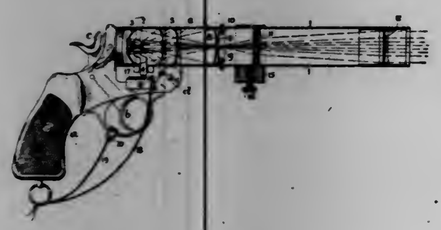
1,451,293. TYPEWRITING MACHINE. JOHN E. DOODY, Toronto, Ontario, Canada, assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 29, 1920. Serial No. 392,751. 11 Claims. (Cl. 197—129.)



1. In a typewriting machine, in combination, a platen axle, a platen-section comprising a hollow core, heads

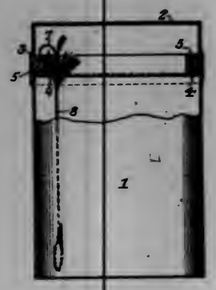
therefor, and tie-rods connecting said heads, one of said heads being adjacent to one end of said axle and supported thereon, a sleeve connected at one end with and extending from the other head of said section to a point adjacent the other end of said axle, said sleeve surrounding said axle but spaced therefrom, a ring near the free end of said sleeve serving to support the same on said axle, and a second platen-section supported at one end on said axle beyond the end of said sleeve, and at the other on the head of the first platen-section to which said sleeve is connected.

1,451,294. FIREARM FOR TEACHING OR PRACTICING THE AIMING THEREOF, AND FOR ADAPTING THE SAME FOR SIGNALING. LOUIS CLAUDE ALEXANDRE DE BRIGNY DOUCET, London, England. Filed Dec. 14, 1920. Serial No. 430,799. 5 Claims. (Cl. 88—24.)



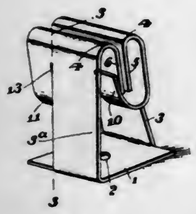
1. In a device for teaching or practicing the aiming of fire arms, the combination of a barrel support, means to permit the detachable connection of a fire-arm barrel to the support, a tubular casing simulating the fire-arm barrel and interchangeable therewith, illuminant means within said casing, a projector combination in operative relation with the illuminant means and adapted for projecting a beam of light through the casing, and trigger mechanism operative for controlling the light projection.

1,451,295. ARTIFICIAL-FLY CONTAINER. ARTHUR S. DRIVER and SUSAN R. DRIVER, Summit, N. J. Filed July 25, 1922. Serial No. 577,308. 3 Claims. (Cl. 43—32.)



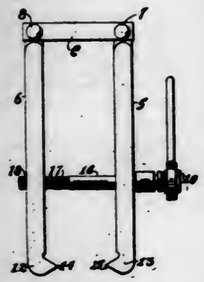
2. A container for artificial flies comprising a flattened receptacle or box of metal adapted to be carried in the pocket, a water-tight cover therefor, and a grooved flange or shelf around its edge below the cover filled with cork, into which the points of the hooks may be embedded while the snells hang down in the open space within.

1,451,296. CONTACT FOR ELECTRIC KNIFE SWITCHES. WILLIAM J. GIBBONS, Philadelphia, Pa. Filed Mar. 21, 1921. Serial No. 453,950. 8 Claims. (Cl. 200—166.)



1. An electric contact device comprising oppositely disposed side portions and separate means carried by each portion for engaging the other portion, the said means tending to prevent separation of said portions.

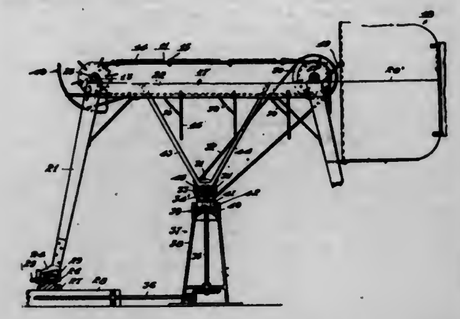
1,451,297. SPRING-LEAF SPREADER. LOUIS M. GREENSLADE, Los Angeles, Calif. Filed Jan. 17, 1921. Serial No. 437,802. 1 Claim. (Cl. 81—15.)



A spring leaf spreading tool comprising a tie member, an arm member pivotally mounted on each end of said tie member, an inturned wedge shaped jaw member on the outer end of each arm member, and a threaded stem turnable in an held against longitudinal movement in one of the arm members, and having a threaded portion turnable in screw engagement with the other arm member whereby rotation of said stem will cause said arms to move forward or away from each other, said stem being located between the tie member and the jaw members adjacent the outer ends of the latter and remote from the tie member.

1,451,298. WINDMILL. AUGUST GRETH, Los Angeles, Calif. Filed Mar. 24, 1921. Serial No. 455,226. 4 Claims. (Cl. 170—6.)

1. In a current motor an endless conveyor, a plurality of vanes carried by said conveyor, means for holding said vanes at an angle to the current whereby the current acts upon all depending vanes simultaneously, a driven shaft operatively connected to said conveyor, and

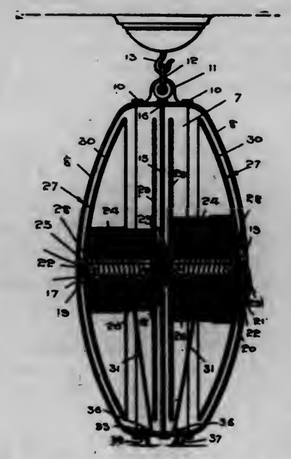


current actuated means for temporarily disconnecting said conveyor operatively from said shaft.

1,451,299. PROCESS FOR THE PRODUCTION OF SHOT EFFECTS, NOT TO BE STAINED IN PIECE DYEING. RICHARD HAYNN and FERDINAND MÜNZ, Fechenheim-on-the-Main, Germany, assignors to Leopold Cassella & Co. Gesellschaft mit Beschränkter Haftung, a Corporation of Germany. Filed May 6, 1922. Serial No. 559,061. 2 Claims. (Cl. 8—20.)

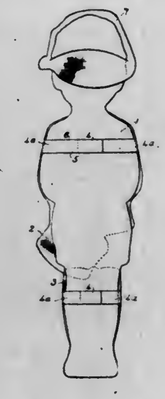
1. A process for the production of shot-effects not to be stained in piece-dyeing, by treating animal fibres in a mixture of acetic anhydride and glacial acetic acid with the addition of catalyzers.

1,451,300. CORD DISPENSER. CALVIN C. HELMAN, Cleveland, Ohio. Filed June 23, 1921. Serial No. 481,304. 10 Claims. (Cl. 242—148.)



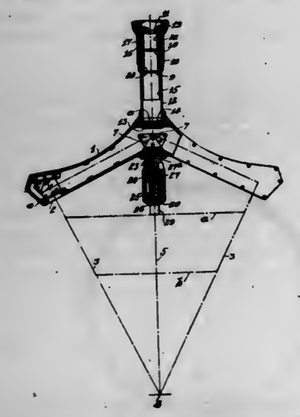
10. A cord dispenser comprising a casing having a rim and opposite sides removable from the rim to open position, a double spindle extending through said partition, collars on the spindle at the opposite sides of the partition to secure the spindle to the partition, tubular members on the spindle at the opposite sides of the partition for frictionally holding spools and having their inner ends rotatable on said collars and their outer ends rotatable on the spindle, and springs within said members connected to the spindle and members for rotating said members reversely.

1,451,301. CARDBOARD AND LIKE TOY. THOMAS MATHEWS, Leicester, England; Annie Mathews and Harry W. Buckingham executors of said Thomas Mathews, deceased. Filed July 15, 1920. Serial No. 396,496. 1 Claim. (Cl. 46—40.)



A toy comprising a cut out figure and a plurality of auxiliary pieces for attachment thereto, each auxiliary piece being reinforced at the back by textile threads and provided at the back with a permanently closed loop adapted to pass over the figure, said loop being made of an integral strip formed on each side of said piece, the said strips being folded inwards at the back of the piece at an angle with respect thereto, so that the sides of the loop are relatively inclined and the opening is longer at its lower edge than at its upper edge, whereby it is caused to bind on the inclined sides of the figure to determine the position of and hold the auxiliary piece firmly thereon, and the ends of said strips being permanently secured together.

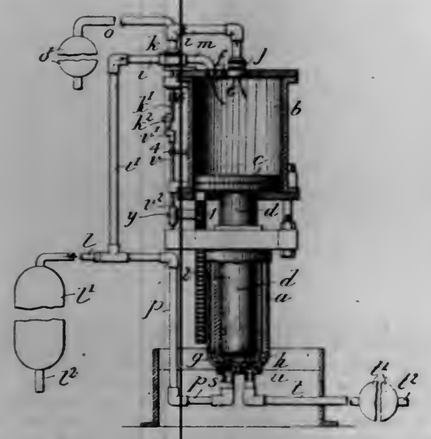
1,451,302. OPTICAL TESTING AND MEASURING INSTRUMENT. JOSEPH MIHALYI, Washington, D. C. Filed May 11, 1920. Serial No. 380,596. 12 Claims. (Cl. 88—202.)



1. An optical instrument of the type described comprising two optical means for providing two images of a single object, the optical axes of which are relatively fixed and are arranged to intersect at the focal point

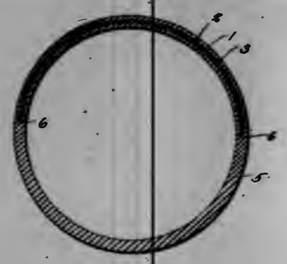
of the instrument to form two equal angles which are such that a base line connecting said axes at any distance from either side of the focal point and at right angles to the perpendicular of the triangle thus formed will have a length equal to such perpendicular.

1,451,303. GAS-DISTRIBUTING SYSTEM. EDWARD ALBERT MITCHELL, London, England. Filed July 26, 1922. Serial No. 577,673. 5 Claims. (Cl. 230—32.)



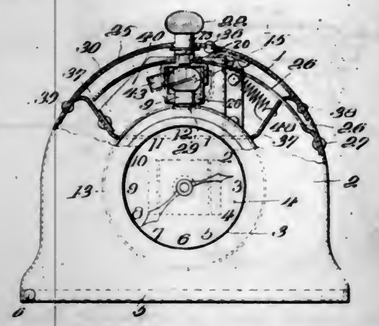
1. In a gas distributing system, the combination with a medium pressure reservoir, a low pressure reservoir and a high pressure reservoir, of a fluid actuated pump comprising a space for actuating fluid and a space for pumped fluid and piston means cooperating with said spaces having a greater area exposed to fluid pressure in the space for actuating fluid and a smaller area exposed to fluid pressure in the space for pumped fluid, a valved inlet connection leading to said space for actuating fluid from the medium pressure reservoir, a valved outlet connection leading from the last mentioned space to the low pressure reservoir, a valved inlet connection leading to said space for pumped fluid from the medium pressure reservoir, and a valved outlet connection leading from the last mentioned space to the high pressure reservoir.

1,451,304. INNER TUBE. MARY PIERSON MITCHELL, Eaton, Ohio. Filed Mar. 25, 1920. Serial No. 368,590. 4 Claims. (Cl. 152—18.)



1. An inner tube for vehicle tires, embodying a layer of wire netting coated with adhesive material which is partially dried prior to the assembly of the tube.

1,451,305. COIN-CONTROLLED CLOCK BANK. JAMES BALLARD MOORE and GEORGE DOMINIC GALLAGHER, Washington, D. C. Filed Feb. 24, 1922. Serial No. 538,908. 16 Claims. (Cl. 194—61.)

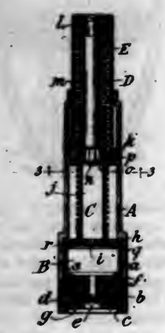


4. In a device of the class described, the combination of an enclosing casing, a time piece oscillatably mounted therein, means for locking the winding arbor of said time piece from rotation and coin controlled means for releasing said locking means on shifting of said time piece.

1,451,306. PROCESS OF TREATING COTTON FABRIC AND PRODUCT OBTAINED THEREBY. CHARLES LEONARD SCHUTTIG, Ridgefield Park, N. J. Filed Sept. 11, 1919. Serial No. 323,206. 9 Claims. (Cl. 8—20.)

2. A process for imparting a permanent finish to fabric containing celluose fibres, which comprises subjecting the fabric to a solution at a temperature of about 32° Fah. composed of approximately two parts by weight of 43 to 45° Baumé nitric acid, and approximately one part by weight, of 66° Baumé sulphuric acid, for a sufficient period of time to convert the surfaces of the fibres into a lower cellulose nitrate, then arresting the action of the solution by treatment with water, and expressing the water from the fabric, then bathing the fabric in a solution of caustic soda, then washing the fabric to remove the caustic soda, then stretching and drying the fabric.

1,451,307. PRESSURE GAUGE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J., and HENRY P. KRAFT, Brooklyn, N. Y., assignors to A. Schrader's Son, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 28, 1910. Serial No. 552,111. 16 Claims. (Cl. 73—111.)

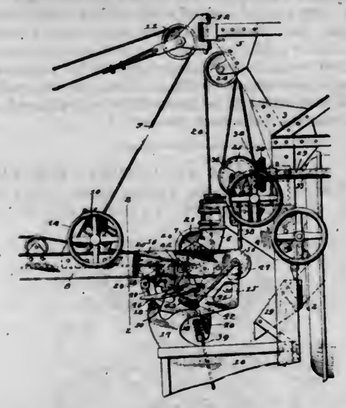


1. A portable gauge for pneumatic tires, comprising a casing, an interior indicating member slidable within said

casing, a pressure-responsive member, said interior indicating member being adapted to be moved to indicating position by said pressure-responsive member, and being adapted to remain in said indicating position, said pressure-responsive member being free to retract without carrying with it said interior indicating member, means for detachably connecting said gauge to a tire valve, and a depressor for the tire valve.

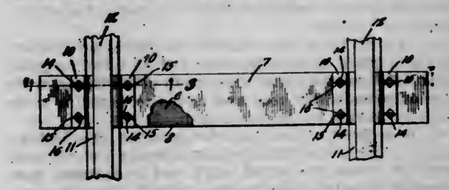
16. A gauge comprising an elongated casing, an indicating sleeve telescoping with said casing and in indicating positions extending beyond said casing, and pressure-responsive means arranged within the gauge and adapted on pressure to move said indicating sleeve to its extended indicating positions, said sleeve sliding along the interior of said casing and being disconnected from said pressure-responsive member so that it moves only outwardly therewith.

1,451,308. CONVEYING AND DISTRIBUTING APPARATUS. SAMUEL SHAFER, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 30, 1920. Serial No. 427,325. 7 Claims. (Cl. 214—50.)



1. In a conveying and distributing apparatus, the combination with a track, and a discharging conveyor supported on the track, of means for causing the traverse of the conveyor backward and forward along the track, means for causing the automatic discharge of the conveyor when the desired place of discharge is reached, and means adapted to be controlled by the mechanism that causes the traverse of the conveyor, for effecting the discharge of the conveyor at the will of the operator at any desired place.

1,451,309. COVERING FOR RAILROAD TIES. ROBERT SLATER, Paterson, N. J. Filed May 5, 1922. Serial No. 558,805. 1 Claim. (Cl. 238—99.)



A device of the class described comprising a tie, a plate on the tie, a rail on the plate, and a securing device engaging the rail and extended through the plate into the tie, the plate being provided at its corners with rectangular openings which form wings covering the sides and the ends of the tie, the securing device being spaced from all of the wings whereby the wings may be bent downwardly and shaped to the tie after the plate has been fastened to the tie by the securing device, after the rail is in place, and after the securing device has been permanently mounted and completely secured, the vertical edges of the side wings and the vertical edges of the end wings meeting at the vertical corner edges of the tie, thereby to prevent the end wings from overlapping the side wings.

1,451,310. DOORSTRIP. ADAM L. SMITH and THOMAS F. RUSSELL, Youngstown, Ohio. Filed Sept. 1, 1921. Serial No. 497,502. 2 Claims. (Cl. 20—68.)



1. In combination with a door frame and a door hinged thereto to swing on a vertical axis, a door strip mounted on the lower portion of said door and slidable vertically in relation to the latter, the said strip being provided with vertically elongated openings, pierced brackets fixed to said door and extending into said openings, bolts extending through said brackets and the top walls of said openings in said strip, and helical springs coiled about said bolts between said brackets and the top walls of said openings whereby said door strip is normally held elevated out of contact with the floor, and means actuated by the closing of the door and adapted to depress said door strip into contact with the door sill.

1,451,311. INGROWN-TOENAIL APPLIANCE. GUY WM. SMITH, Paonia, Colo. Filed Sept. 20, 1920. Serial No. 411,356. 1 Claim. (Cl. 128—87.)



An ingrown toenail appliance comprising a pair of resilient strips having their adjacent end portions overlapping and slidably connected for purpose of adjustment and providing an intermediate portion of double thickness to bear on the toenail, the opposite terminals of said strips being adapted to be sprung toward the edges of the nail and having hooks to be engaged under said edges while said opposite terminals are sprung to the edges of the nail.

1,451,312. FERTILIZER AND LIME DISTRIBUTOR. HORACE L. SMITH and HORACE L. SMITH, Jr., Petersburg, Va. Filed Apr. 11, 1922. Serial No. 551,691. 9 Claims. (Cl. 221—125.)

1. In a device of the character described, a hopper having its bottom provided with a socket, a sleeve fitted in the socket and having a flanged head overhanging the

top of the socket, and a disk having a depending stud fitted in the sleeve and provided with an annular socket



surrounding the stud and spaced from the same, said annular socket providing for the reception of the flanged head of the sleeve, and means for rotating said disk.

1,451,313. ART OF REDUCING INFLAMMABILITY OF MATERIALS. ARTHUR ARENT, Des Moines, Iowa, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa, a Corporation of Iowa. Filed Jan. 15, 1921. Serial No. 437,618. 29 Claims. (Cl. 134—44.)

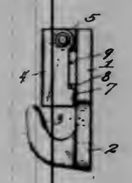
29. As a new article of manufacture, a motion picture film comprising a cellulose ester base with which is associated a sufficient proportion of an antimony salt to render the film non-inflammable, said antimony salt being present in a form in which it is substantially insoluble in and undecomposable by water.

1,451,314. FEEDER FOR FOUNTAIN PENS. HENRY F. AUSTIN, New Orleans, La. Filed July 14, 1921. Serial No. 484,761. 1 Claim. (Cl. 120—46.)



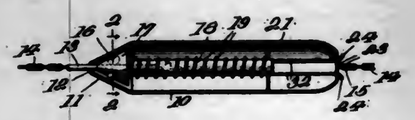
A fountain pen comprising a barrel, an ink containing sack positioned within the barrel, a relatively long bar disposed between the inner wall of the barrel and outer surface of the sack, a finger piece formed at one end of the bar, said finger piece adapted to extend through the barrel, whereby the sack may be compressed, and means adapted to contact with the bar at a point substantially intermediate the ends thereof for compressing the sack.

1,451,315. HOOK FASTENER. TAUE M. AVERY, Glens Falls, N. Y., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y., a Corporation of New York. Filed June 4, 1919. Serial No. 301,620. 1 Claim. (Cl. 152—14.)



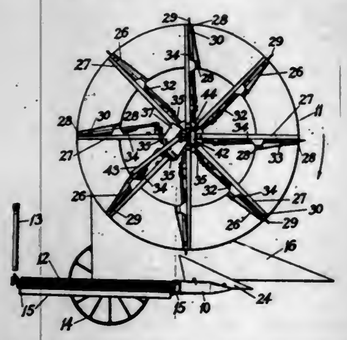
A hook fastener comprising a base for attachment to a relatively stationary object and provided with a laterally projecting hook adapted to be engaged by a link, a guard movable in the plane of the hook and pivoted to the base at its end remote from the hook in such relation that when positioned adjacent and substantially parallel to the base it extends substantially perpendicularly from its pivot toward the hook and with its lower end closes the link passage between the hook and the base, the guard and the base having companion elements which co-operate automatically when the guard is closed to secure the guard in closed position and the guard, by virtue of its perpendicular arrangement, maintaining its closed position despite any pressure thereon of the link engaged with the hook.

1,451,316. CLASP. LYMAN R. BARNETT, Missoula, Mont. Filed Apr. 20, 1922. Serial No. 555,766. 1 Claim. (Cl. 24—230.)



A clasp comprising a rod, a shell having closed ends, one of said ends being conical and having an opening at its apex to receive said rod, the remaining end having spaced openings, a tube in said shell, an enlarged conical end on said tube having ball receiving openings, balls in said last named openings adapted to be pressed into contact with said rod by the conical end of said shell, a plate in said shell having an opening receiving said tube, a spring abutting against said plate and enlarged end, portions of said tube cut away to leave separated strips adapted to pass through said spaced openings, means on the projecting ends of said strips to be grasped for actuation of said tube to release the balls from the rod.

1,451,317. FLAX-PULLER ATTACHMENT FOR BINDERS. JOSEPH A. BARTOSZ, Turner, Oreg. Filed Dec. 12, 1921. Serial No. 521,884. 7 Claims. (Cl. 55—66.)

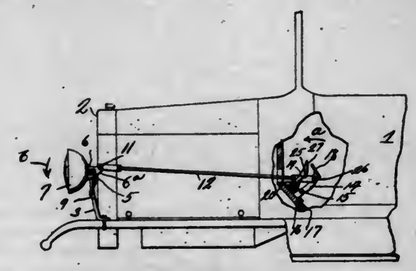


1. In an attachment for binders the combination of a guard, adapted to hold rubber rollers, a protecting plate secured to the under side of the guard, scrapers for the rubber rollers attached to said protecting plate, guiding plates on top of the guards to deliver the flax stalks in an orderly manner to the binder, a reel revolubly mounted above the guards, and raker teeth attached to the circumference of the reel.

4. In a device of the character described, the combination of a guard containing rubber rollers, a reel revolubly mounted above the guard, raker teeth projecting from the circumference of the reel, and means to impart a reciprocatory motion to the raker teeth.

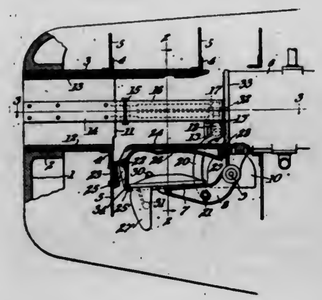
5. In a device of the character described, the combination of a guard containing rubber rollers, a reel revolubly mounted above the guard, said reel comprising arms mounted in pairs and extending radially from the axis, cross braces between each pair of arms, canvas wings stretched over the cross braces, raker teeth slidably mounted in the cross braces at the circumference of the reel, and means to withdraw said raker teeth momentarily after having passed the guards.

1,451,318. VEHICLE HEADLIGHT. OSCAR V. BERKLEY, Barbourville, Ky. Filed Nov. 1, 1921. Serial No. 512,058. 1 Claim. (Cl. 240—61.)



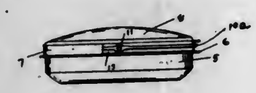
An automobile headlight mechanism comprising a transversely disposed rockable rod having headlights thereon, a rearwardly and upwardly extending arm carried by said rod, a foot lever pivotally mounted within the automobile, a connecting rod connecting said foot lever to the rear end of the rearwardly and upwardly extending arm, an outwardly extending lug carried by said foot lever, an upwardly extending pivoted arm adjacent one side of the foot lever, a shoulder carried by said pivoted arm and adapted to engage over the outwardly extending lug carried by the foot lever when said lever is forced forwardly, spring means for normally forcing the pivoted arm rearwardly, a stop lug disposed below the pivotal point of the pivoted arm, and a lug carried by the pivoted arm and adapted to engage the stop lug and limit the rearward movement of the pivoted arm.

1,451,319. TORPEDO GUIDE FOR TORPEDO TUBES. ERIC G. BJORKLUND, Bridgeport, Conn., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn., a Corporation of Maine. Filed Aug. 18, 1922. Serial No. 582,749. 18 Claims. (Cl. 114—238.)



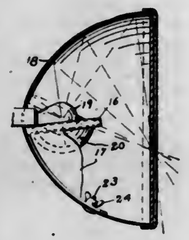
13. In a vessel, having a torpedo tube, the combination with said tube of a plurality of guides provided with movable extensions, the movable extension of one of said guides pivoted for swinging action upon a horizontal axis and the movable extensions of the others of said guides pivoted for swinging action upon vertical axes, a muzzle door for said torpedo tube, an operating lever for said door, means on said door for actuating the guide extension pivoted upon a horizontal axis to move the same into and out of operative alignment with respect to said tube, levers pivoted to a stationary portion of said boat and connected with the extensions of the guides movable upon vertical axes, and means carried by said door operating means and cooperating with said levers for moving said vertically pivoted portions into and out of operative alignment with respect to said tube.

1,451,320. CAN OPENER. JOHN BODNAR, Springfield, Mass. Filed May 21, 1920. Serial No. 383,238. 1 Claim. (Cl. 220—43.)



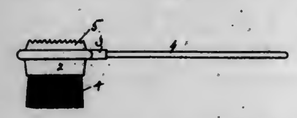
The combination with a can, including a bottom and a cover, and the bottom having an external circular flange located below its upper edge and said upper edge being insertable in the cover, said cover being provided with upwardly turned integral ears, located in opposite sides thereof, a U-shaped lever having terminal portions pivotally connected with said ears and projecting beyond said pivotal connections, the central portion of the lever having an outset finger hold, the lever normally resting in bodily contact with the flange, being normally protected against accidental displacement by said flange, the lever having a medial reinforcing flange coextensive with its length.

1,451,321. HEADLIGHT DIMMER. ULYSSES S. G. BAOBST, Fresno, Calif. Filed May 31, 1921. Serial No. 473,565. 1 Claim. (Cl. 240—48.2.)



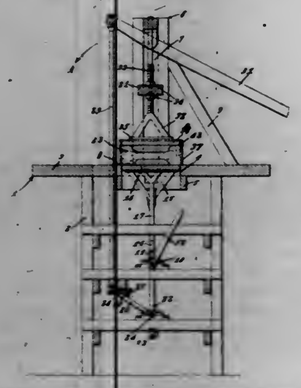
In a headlight having a reflector and a bulb the combination of an approximately horizontal frame of a configuration in top plan to fit the interior of the reflector and having a downwardly projecting apron surrounding the curved portion thereof, said apron being of a configuration to fit the perimeter of the lower half of the reflector and terminating at its lower end in an ear provided with a horizontally disposed slot therethrough; a bolt projecting through said reflector and slot; a wing nut on the inner end of said bolt whereby said frame is locked against movement; and a deflector detachably mounted in said frame having a central pocket adapted to surround the lower portion of the bulb.

1,451,322. SHOE-POLISH-APPLYING BRUSH. ELLIS B. BURRELL, Baltimore, Md. Filed Aug. 18, 1920. Serial No. 404,328. 1 Claim. (Cl. 15—110.)



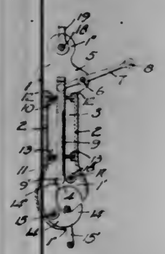
A shoe polish applying brush comprising a wire handle, a metal cylinder having a flanged upper edge and an extension on one side of said flange, the upper flange and extension being bent around the ends of said handle, bristles projecting below said cylinder, and a flexible disk secured in said cylinder and projecting above the said flange and having a serrated outer surface.

1,451,323. MOLDING MACHINE. JOHN D. DAUGHDRILL, Anniston, Ala. Filed Sept. 9, 1921. Serial No. 499,455. 4 Claims. (Cl. 22—27.)



1. In a device of the class described, a main frame; a flask carried thereby; a lower pattern cooperating with the flask; means carried by the main frame for raising and lowering the lower pattern; an upper pattern cooperating with the flask; an auxiliary frame hinged to the main frame for folding movement with respect to the main frame, means for mounting the upper pattern on the auxiliary frame for movement toward and away from the lower pattern and mechansim carried by the main and auxiliary frames for operating the upper pattern toward and away from the lower pattern.

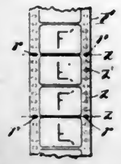
1,451,324. SLING RELEASER FOR TRANSPORTING APPARATUS. MARCOS CASAMAYOR, Manzanillo, Cuba. Filed Nov. 7, 1921. Serial No. 513,565. 2 Claims. (Cl. 294—83.)



1. A sling releaser for transporting apparatus, comprising a main body presenting a hollow space along which are guides between which slides a bolt, a hook pivoted at the lower part of such body at a point higher than its gravity center and which presents an angular cut at its upper end for adjusting with the lower end of the bolt; a lever pivoted on the upper part of said main body and articulated at one end to the upper end of the bolt and from the opposite end pending a cord for the releasing pull and an element maintaining frictionally the lower end of the bolt against the cut in the hook in the securing position of the releaser.

1,451,325. CINEMATOGRAPHIC FILM. DANIEL F. COMSTOCK, Cambridge, and JOSEPH A. BALL, Wollaston, Mass., assignors, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed Oct. 6, 1920. Serial No. 415,018. 24 Claims. (Cl. 88—19.5.)

1. A cinematographic film having a plurality of series of complemental images representing simultaneous aspects of an object field, the images of certain series being interposed between images of other series longitudinally of the film, the film having registering means arranged uniformly with respect to transverse lines equidistant from



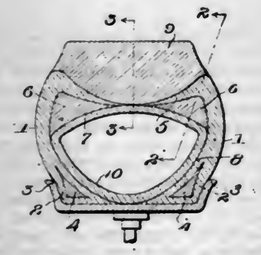
the several images of each complemental set so that the distance from each point of each image to the transverse line thereof is the same as the distance between the corresponding points of the complemental images to the lines thereof.

1,451,326. RING FOR CURTAINS AND THE LIKE. JACK ARTHUR CUNDY, London, England. Filed June 12, 1922. Serial No. 567,714. 1 Claim. (Cl. 156—21.)



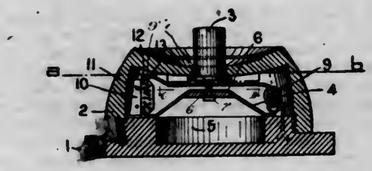
A curtain ring and support, comprising a single length of material coiled intermediate its ends into ring form and projected above and below the ring to form arms with the lower arm of greater length, said arms being aligned diametrically of the ring, with the terminals of each arm formed with upwardly-opening hooks, whereby to facilitate the application of a curtain and utilize the greater length of the lower arm under the weight of the curtain to always maintain the arms aligned vertically in use.

1,451,327. VEHICLE TIRE. JOHN DARIUS CUNNINGHAM, Houston, Tex. Filed July 7, 1922. Serial No. 573,329. 4 Claims. (Cl. 152—10.)



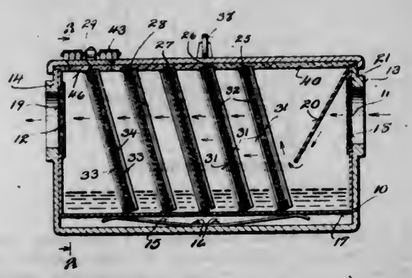
4. A combined pneumatic and cushion tire including fabric side walls, a fabric outer wall integral with the side walls and concave from the side walls towards the center of the tire, a cushion tread secured on said concave outer wall, cushion sections arranged within the tire at the juncture of the fabric side walls and outer wall, said cushion sections defining the upper surface of the tube receiving space, and a tube fitted within the tube receiving space and bearing in part on the fabric side walls and in part on said cushion sections.

1,451,328. ELECTRIC SIGNAL TRANSMITTER. DOMINGO DESPLATS, Buenos Aires, Argentina. Filed Nov. 4, 1919. Serial No. 335,729. 4 Claims. (Cl. 177—380.)



4. Electric signal transmitter comprising, a base, a cover therefor, an air chamber formed by a flexible membrane within the base and cover, a valve in the membrane, a spring forming one pole of the circuit connected to said valve, a push button movable in the cover and engaging the spring, a contact plate having a plurality of holes therein and mounted on the base obliquely to the free path of one end of the spring, and a wire forming the other pole of the circuit threaded through such holes as will produce signals in the desired combination on a single depression of the push button.

1,451,329. AIR FILTER FOR ENGINES. ALVIN R. DRESSLER, Sheboygan, Wis. Filed May 8, 1922. Serial No. 559,437. 3 Claims. (Cl. 183—30.)



1. In a filter for engines the combination of a casing, a quantity of oil in the bottom thereof, a plurality of filters having their lower ends extending into said oil, a lid for said casing, and a fabric lining for said lid cooperating with said filters to prevent the escape of air about said filters.

1,451,330. MANUFACTURE OF CELLULOSE DERIVATIVES. HENRY DREYFUS, London, England. Filed Aug. 5, 1920. Serial No. 401,383. 34 Claims. (Cl. 260—152.)

34. Process for the manufacture of aralkyl ethers of cellulose, compriaing impregnating with alkali a cellulosic body not soluble in alkali, and thereafter treating the cellulosic body with an aralkylating agent in presence of further alkali, said further alkali being added by stages in solid form, and the aralkylating agent being also added by stages, the water used in the reaction, disregarding that formed in the reaction, being restricted to an amount not greater than from about the natural humidity content of the cellulosic body up to about one and a half times the weight of the cellulosic body and the total alkali used in the process being at least equal in weight to said restricted water quantity, disregarding water formed in the reaction.

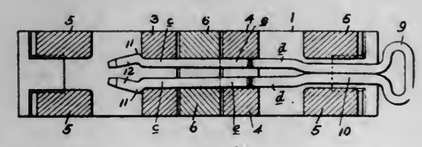
1,451,331. MANUFACTURE OF CELLULOSE DERIVATIVES. HENRY DREYFUS, London, England. Filed Aug. 5, 1920. Serial No. 401,385. 22 Claims. (Cl. 260—152.)

1. Process for the manufacture of cellulosic derivatives being "mixed" aralkylalkyl ethers of cellulose, comprising treatment of a cellulosic body in presence of a base with aralkylating agents and with alkylating agents whereby aralkyl and alkyl groups are introduced into hydroxyl groups of the cellulosic body.

7. Process for the manufacture of "mixed" ethers of cellulose, comprising treating a cellulosic body not soluble in alkali, in presence of alkali, with aralkyl halide and with dialkyl sulphate, while restricting the water present, disregarding that formed in the reaction itself, to an amount not greater than from about the natural humidity content of the cellulosic body up to one and a half times the weight of the cellulosic body, the total alkali used in the process exceeding, in a ratio of 3:1 and upwards, the weight of said restricted quantity of water, disregarding water formed in the reaction.

22. As new products, benzyl-ethyl "mixed" ethers of cellulose.

1,451,332. BRAKE-SHOE KEY. ERASTUS EMERY, Pittsburgh, Pa. Filed Apr. 28, 1922. Serial No. 557,118. 8 Claims. (Cl. 188—243.)

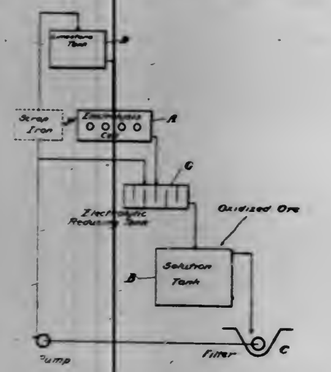


5. A key for connecting a brake shoe to a brake shoe head, said head and shoe having intercalating lugs intermediate their ends, said lugs having openings therethrough having in combination an upper body portion, resilient legs extending from the body portion and adapted when the key is in operative position to bear against the side walls of the openings through the lugs on the shoe-head, a head on the body portion and shoulders adjacent to the ends of the legs, said shoulders and head being adapted when the key is in operative position, to maintain the legs in contact with the side walls of the openings through the lugs on the head and shoe.

1,451,333. ART OF MAKING ELECTROLYTIC IRON. FREDERIC A. EUSTIS, Milton, CARLE R. HAYWARD, Quincy, and HENRY M. SCHLEICHER and DONALD BELCHER, Boston, Mass., assignors, by direct and mesne assignments, of one-half to said Eustis and one-half to Charles Page Perin, New York, N. Y. Original application filed Dec. 1, 1920, Serial No. 427,541. Divided and this application filed July 7, 1921. Serial No. 482,928. 5 Claims. (Cl. 204—15.)

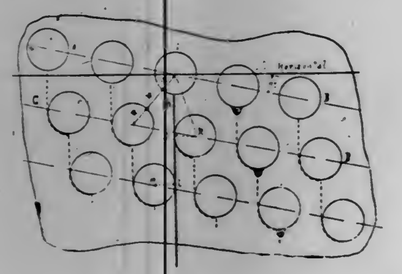
1. The art of making electrolytic iron which comprises reducing a ferric solution by means of an electric

current to a ferrous state, and then transferring the ferrous solution to a separate electrilytic cell to which



the ferric solution has no access and depositing iron from the ferrous solution by electrolysis in said separate cell.

1,451,334. SURFACE CONDENSER. ANDRÉ GINABAT, Paris, France. Filed May 3, 1921. Serial No. 466,481. 9 Claims. (Cl. 257—43.)



1. In surface condensers of the tubular type, a disposition of the tubes by which a vertical line from any position on the axis of the upper tube of any pair is tangent at the end of a horizontal diameter of the lower tube of the pair.

1,451,335. GRINDING BODY AND METHOD OF PRODUCING SAME. GEORGE R. HANKS, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Dec. 30, 1921. Serial No. 525,950. 7 Claims. (Cl. 29—148.4.)



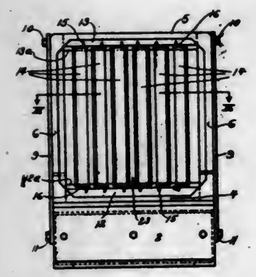
1. A continuous method of making grinding bodies at one heat, which consists in casting a slug having a substantial part thereof of the ultimate shape of the finished product, forging the slug, while hot from the heat of casting, to the ultimate form desired, and rapidly cooling the forged product.

1,451,336. QUICK-STOP EMERGENCY BRAKE FOR VEHICLES. JACOB HOCHMAN, New York, N. Y. Filed Feb. 6, 1922. Serial No. 534,486. 3 Claims. (Cl. 180—83.)



1. In combination with a vehicle, brake members arranged in pairs and adapted to engage the ground in front of the wheels of the vehicle, bodily movable shafts from which said brake members are suspended, arms carrying said shafts, transverse shafts on which said arms are fixed, front and rear longitudinal shafts having bevel gear connections with the said transverse shafts, said front longitudinal shaft being formed in two sections, a clutch connecting said sections, means operatively connected to one section of said shaft for raising and holding in raised position said brake members, the other section of said shaft having the above mentioned gear connection with the transverse shaft, means operatively connecting the last mentioned section of the front longitudinal shaft with the rear longitudinal shaft whereby the latter is caused to operate and means for releasing said clutch to free the said transverse shafts.

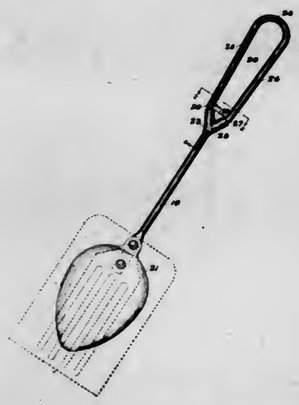
1,451,337. RADIATOR GUARD. NORMAN C. HUCKESTEIN, Pittsburgh, Pa. Filed Sept. 23, 1920. Serial No. 412,171. 4 Claims. (Cl. 180—68.)



1. A radiator guard consisting of a supporting frame adapted to be spaced in front of a vehicle radiator and a series of vertically arranged independently movable spring controlled pivoted vanes therein having open and closed positions and being arranged to normally remain in open position.

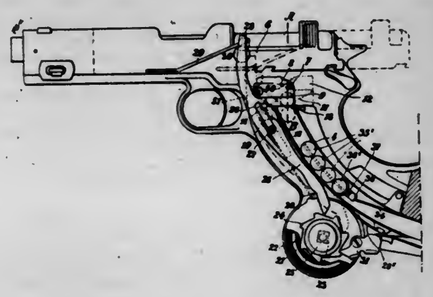
1,451,338. HANDLE FOR KITCHEN UTENSILS. EDWARD H. JOHNSON, Binghamton, N. Y., assignor to The A. & J. Manufacturing Company, Binghamton, N. Y., a Corporation of New York. Filed July 23, 1920. Serial No. 398,377. 3 Claims. (Cl. 30—22.)

1. In a handle for a culinary utensil: a metal rod one end of which is suitably attached to such utensil, said rod being abruptly bent to one side at a suitable distance from said attached end thereof, the portion of said rod beyond such bend being fashioned to provide an open hand grip loop having a rounded end remote from said abrupt bend, the sides of such loop gradually converging toward said abrupt bend, and the remaining end of said rod being turned abruptly toward said abrupt bend and brought into abutting relation with the side



of said rod thereat; and a metal piece wrapped around said rod so as to provide a tightly fitting Y-shaped socket containing said abutting end and said abrupt bend, and separately enclosing portions of said rod at either side of said bend and adjacent to said end.

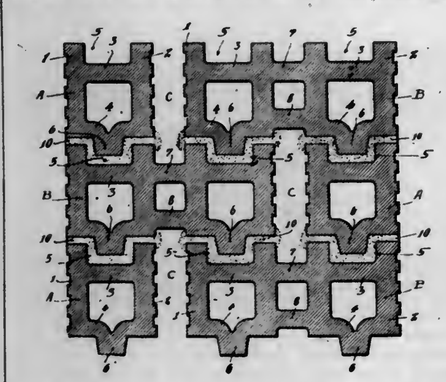
1,451,339. MAGAZINE FIREARM. ARTHUR KOTTAS, Vienna, Austria. Filed July 8, 1921. Serial No. 483,283. 6 Claims. (Cl. 42—17.)



1. A magazine firearm, a cartridge channel therein, in which the cartridges lie transversely of the stock, means for conveying the cartridges along said channel, and means for turning the cartridges through an angle of ninety degrees in passing from said channel, said means comprising two members having oblique edges crossing at right angles.

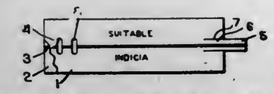
1,451,340. BUILDING CONSTRUCTION. LEO KROONEN, Corona, Calif., assignor to Charles Donlon, Oxnard, Calif. Filed July 1, 1920. Serial No. 393,384. 5 Claims. (Cl. 72—41.)

1. A wall structure combining a plurality of horizontally disposed interlocking hollow building blocks each having horizontal top and bottom walls and vertical connecting side walls extending above the top wall to form a mortar groove, the bottom wall of each block being formed with a longitudinal tongue vertically aligned with said groove and having converging side



walls and positioned and embedded in mortar in the mortar groove of the adjacent block.

1,451,341. MARKING TICKET. ALONZO KIMBALL MARSH, New York, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Aug. 3, 1922. Serial No. 579,439. 3 Claims. (Cl. 40—21.)



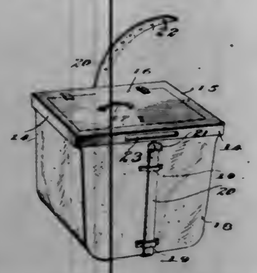
1. A marking ticket comprising two plies of flexible non-metallic material secured together face to face, a soft wire stiffener interposed between said plies and extending longitudinally thereof, the said ticket presenting an aperture adjacent one end and a tongue at the other end containing the end of the wire stiffener whereby, when the ticket is bent to surround the article or articles to be marked, it may be secured in position by passing the tongue through the aperture and bending the tongue back upon itself.

1,451,342. FOOD-PREPARING UTENSIL. PRESILIANO MENDEZ, Valmy, Nev. Filed Oct. 7, 1922. Serial No. 593,040. 6 Claims. (Cl. 146—14.)



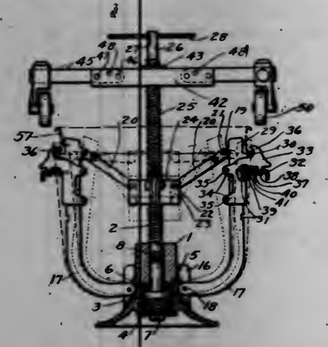
1. A device of the class described comprising a pair of handles pivoted together, means on one handle for rotatively supporting an article to be peeled, and a knife slidably mounted on the second handle.

1,451,343. MAIL RECEPTACLE. NICK PANAGOPOLOUS, Muskogee, Okla. Filed Jan. 21, 1922. Serial No. 530,852. 1 Claim. (Cl. 150—13.)



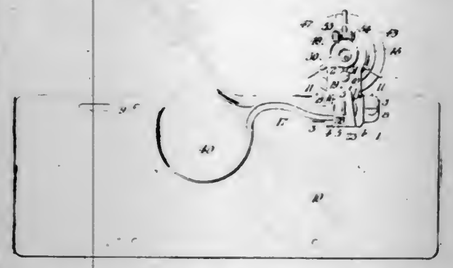
In a mail receptacle, a pouch having a flexible collapsible body and a rectangular rigid top section of a permanent nature to which the body is permanently attached and against which the body may be collapsed, provided with a mail introducing slot centrally of one side and having a hinged and normally locked closing lid in its top affording access to the body for the removal of mail therefrom, said body having strap guides, and a strap normally carried in said guides and extendible when connected around the rigid top to hold the body in collapsed position against the top and across said slot and said lid to prevent loss of mail from the former and avoid accidental opening of the latter.

1,451,344. TIRE CHANGER. WINFIELD S. ROBINETT, Seattle, Wash. Filed Feb. 23, 1922. Serial No. 538,539. 6 Claims. (Cl. 157—6.)



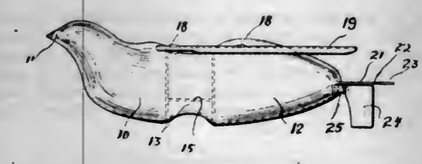
1. A tire changer of the class described embodying a vertical spindle supported in thrust bearings in a suitable base which will permit it to rotate; threads on the spindle; notches around the spindle; a pin slidably mounted in a hole in the base which engages the notches in the spindle; a lever pivotally supported on the side of the base to operate the pin; a spring in a recess in the base bearing against the lever to hold the pin in the notches; lugs on the sides of the base; arms pivotally mounted to the lugs which project outward and upward; lugs on the inner side of the upper end of the arms; links pivotally mounted on the lugs whose opposite ends are pivotally mounted in a collar which is screwed on the spindle; lugs on the outer edges of the arms; notches in the outer edges of the arms; jaws slidably mounted on the arms; spring latches in the jaws to engage the notches in the arms; hook shaped projections on the upper sides of the jaws; a horizontal member also screwed on the spindle; bars pivotally mounted in the horizontal member; pins for holding the bars in a horizontal position; other pins and holes for holding the bars in vertical positions; brackets with set screws slidably mounted on the bars; rollers pivotally mounted in the lower ends of the brackets; and a hole in the top of the spindle thru which a bar may be placed for rotating it.

1,451,345. SIGNALING DEVICE. EDWIN M. ROSENBLUTH, Wallingford, Pa. Filed July 28, 1921. Serial No. 488,071. 14 Claims. (Cl. 116—45.)



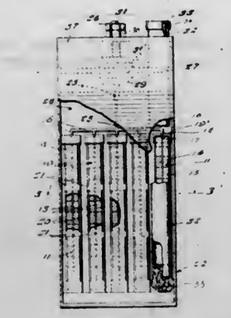
1. In a signaling device, the combination with a frame member adapted to detachably support a vehicle license number plate; of a lamp having means detachably connecting it with said frame member in position to illuminate the numbered face of said plate; a hollow nut sleeve journaled in said frame; a semaphore signal carried by said nut sleeve in such relation to said plate as to be normally concealed behind the latter; means adjustably connecting said nut sleeve and semaphore including a bifurcated clamp on the latter; means adapted to raise said semaphore above said plate and into position to be illuminated by said lamp; including a screw member axially movable in said nut sleeve as a nut, and having thread of such rapid pitch as to turn said semaphore when said screw is moved axially in said frame and nut sleeve without turning said screw; means limiting the turning movement of said semaphore, including a stop projection extending therefrom in an arcual slot in said frame member; an abutment on said screw; a spring encircling said screw within said nut sleeve, and bearing at one end upon said abutment; whereby said screw is normally shifted to one extreme of its axial movement; and a connecter extending from said screw to a member of a vehicle which it is necessary to move to stop the vehicle; whereby said semaphore signal is automatically displayed as a consequence of the movement of said vehicle member.

1,451,346. AERIAL VEHICLE. ADOLF SEYDEL, Brooklyn, N. Y. Filed Aug. 23, 1922. Serial No. 583,717. 1 Claim. (Cl. 244—9.)



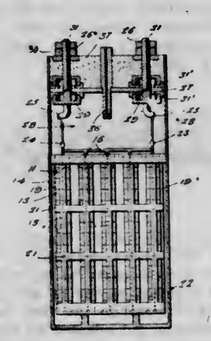
An aerial vehicle comprising a hollow body raised at the front and of substantially circular cross section thruout, said body tapering from the center fore and aft, a vertical cock-pit in the center of said body, said cock-pit having a flooring through which the legs of the rider extend, a pair of wings hinged to said body, hooks on the underside of said wings to engage the arms of the rider, a tail on said body, and rudders for changing the inclination and direction of the vehicle.

1,451,347. STORAGE BATTERY. WILLIAM H. THORPE, Mount Vernon, N. Y. Filed Feb. 1, 1922. Serial No. 533,443. 2 Claims. (Cl. 204—29.)



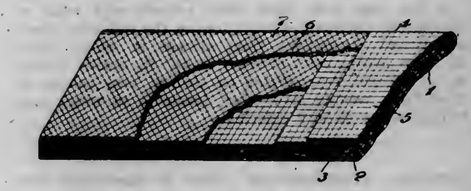
1. In a storage battery, plates comprising a plurality of units, each unit having spaced apart layers of active material, a metallic core for each unit, said layers encircling said core, and a moldable inactive porous material molded to lie between said active layers and around said core.

1,451,348. STORAGE BATTERY. WILLIAM H. THORPE, Mount Vernon, N. Y. Filed Feb. 1, 1922. Serial No. 533,444. 4 Claims. (Cl. 204—29.)



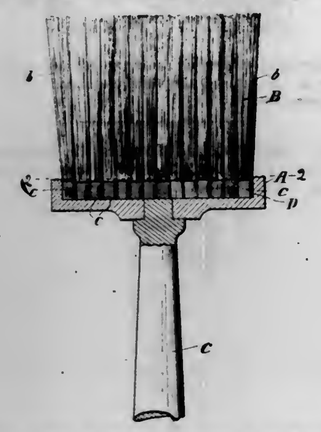
1. In a storage battery, automatic means within the battery for measuring the water added to the battery comprising a filling tube in the battery and liquid absorbing means in the tube.

1,451,349. POWER-TRANSMISSION BELT. GEORGE S. TOWNE, San Francisco, Calif. Filed Apr. 26, 1922. Serial No. 556,744. 2 Claims. (Cl. 74—63.)



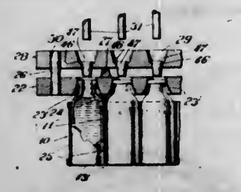
1. A power transmission belt including a substantially inelastic woven body, the opposite ends thereof being formed with a woven elastic surface, and means for securing said belt ends together with said elastic surfaces in substantially parallel meeting relation at substantially right angles to the normal plane of the body of the belt.

1,451,350. METHOD OF CONSTRUCTING BRUSHES. WILLIAM UNGER, Wooster, Ohio. Filed Jan. 3, 1922. Serial No. 526,800. 2 Claims. (Cl. 300—21.)



2. The herein described method of constructing a brush, comprising the insertion and pressing into a channel of a brush head or block, of a flat line of brush material sewed together with a strong cord seam across the butt ends of the line, after filling the channel with a liquid cement, and then dry hardening, substantially as set forth.

1,451,351. APPARATUS FOR BOTTLING LIQUIDS. CHESTER J. VAN DOREN, Oak Park, Ill., assignor of one-half to H. T. Dorrington, Chicago, Ill. Filed Sept. 18, 1920. Serial No. 411,172. 6 Claims. (Cl. 226—92.)



1. A cork rack charging device comprising, in combination, a cork rack having a plurality of holes adapted at their lower portions each to fit a tapered cork projecting below the board, each hole having an abrupt increase of diameter forming an offset adjacent the position occupied by the base of a cork seated in said hole, said increased diameter being greater than the greatest diameter of the tapered cork, said hole being of upwardly increasing diameter above said offset, and means to subject said rack to suddenly arrested upward movements.

1,451,352. AIRPLANE. FRANK B. VORACEK, Portland, Oreg. Filed Oct. 18, 1920. Serial No. 417,535. 10 Claims. (Cl. 244—14.)

1. In an airplane, the combination of a fuselage tapering toward both ends and terminating in a blunt nose, triple deck wings extending horizontally from the fuselage, double deck tail planes extending horizontally from the

fuselage, vertical and horizontal rudders within the tail plane, quadruple motors within the triple deck wings, propellers in front of the triple deck wings, running



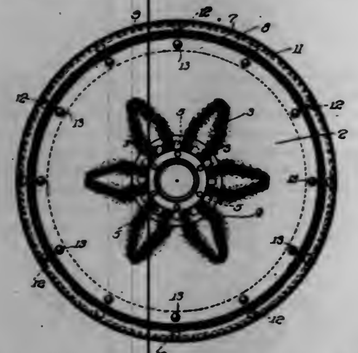
gears underneath the wings and the planes, and operating means in the nose of the fuselage ahead of the wings and the propellers.

1,451,353. FIRE DOOR. HERMAN C. WALDMAN, St. Louis, Mo. Filed Aug. 21, 1920. Serial No. 405,122. 5 Claims. (Cl. 189—46.)



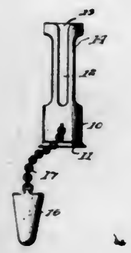
1. A fire door having a rigid, rectangular frame composed of four commercially rolled, flanged members, and a panel in said frame composed of a plurality of sheets connected together within their marginal edges and having their top and bottom edge portions directly connected to said frame.

1,451,354. CORRUGATED-PLATE WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,577. 5 Claims. (Cl. 301—63.)



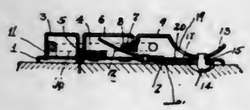
5. A wheel disk having a plane outer non-corrugated zone and a central zone with deep radial corrugations formed on one side of the plane of the outer zone, combined with a cast-on hub lying in the central opening of the disk and having two thin parallel circumferential flanges corrugated like the inner margin of the disk and rigidly holding the marginal portion between them.

1,451,355. TIE FORM. HUGH C. WREN, Louisville, Ky. Filed Feb. 13, 1922. Serial No. 536,107. 2 Claims. (Cl. 24—49.)



1. In a necktie clamp, a tubular member through which one end of a tie may be passed and having shoulders between which the other end of said tie may be wrapped, and a clamping member arranged to clamp the tie in said tubular member.

1,451,356. FASTENING DEVICE. RUDOLPH M. YEMNIKER, Cleveland, Ohio, assignor to The Langenau Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 28, 1920. Serial No. 384,806. 1 Claim. (Cl. 292—250.)



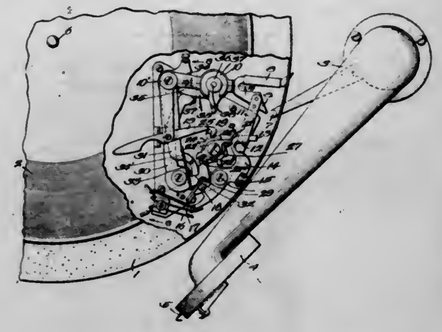
In a fastening device of the character described, the combination of two plates designed to be secured in abutting relation on the parts to be fastened together; a link pivotally attached to one of said plates; a lever member pivotally attached to the free end of said link and having a fulcrum end adapted to engage with said other plate; and a leaf spring acting on said fulcrum end serving to align said parts during the latching operation and to hold said parts in locking position.

1,451,357. NITROBENZOIC ACID ESTERS OF TRIHALOGENTERTIARY BUTYL ALCOHOL. THOMAS B. ALDRICH, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 10, 1922. Serial No. 551,267. 5 Claims. (Cl. 260—103.)

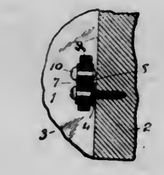
5. The new body meta nitro benzoic acid ester of tri-chlorotertiary-butyl-alcohol having the following characteristics: crystallizes from alcohol in white plates having a melting point of about 86–88° C., readily soluble in hot alcohol, crystallizing on cooling, very soluble in chloroform, acetone and ether, insoluble in water containing about 32.06% chlorine.

1,451,358. PHONOGRAPH. JOHN F. BERGANDER, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,018. 8 Claims. (Cl. 192—122.)

1. A phonograph including a disc record supporting turn table; a tone arm structure mounted to swing over the turn table and carrying a sound box that is provided with a record groove engaging stylus; automatic means for stopping the turn table; and mechanism governed by the tone arm for rendering said means operative and inoperative and set by the tone arm upon inward manual movement of the tone arm to record concluding position, to make said means operative when the record being played subsequently returns the tone arm approximately to this position.



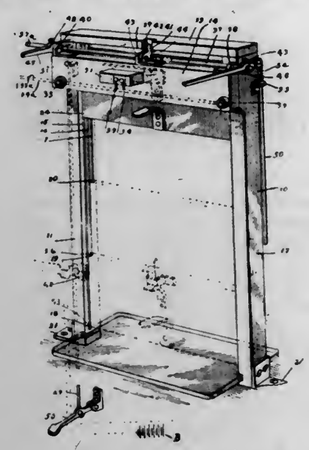
1,451,359. SASH ANTIRATTLER. JOSEPH E. CAMPBELL, Rosedale, Kans. Filed Feb. 10, 1921. Serial No. 443,874. 8 Claims. (Cl. 292—194.)



1. In a sash anti-rattler, a supporting member adapted to be mounted in a window frame, a washer mounted on said member and arranged to bear against said frame, two plates rotatably mounted on the supporting member, one having frictional engagement with the washer, and a resilient member eccentrically mounted on the supporting member and adapted to be clamped thereby between said plates, said resilient member being adapted to engage and to be compressed by a sash slidably mounted in said window frame, susbtantially as set forth.

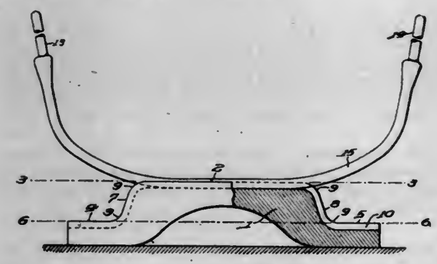
1,451,360. SHIELD FOR BANK WINDOWS. JOHN W. CLEARY, New York, N. Y. Filed Mar. 1, 1919. Serial No. 280,181. 2 Claims. (Cl. 268—2.)

1. In a shield for bank windows, in combination; a detachable frame adapted to be installed in any bank, comprising two vertical supports connected by horizontal members at their upper ends and having a series of vertical guides on their inner surfaces; a plurality of vertically slidable shield members disposed in a horizontal position with their opposite ends in said guides, a bracket provided upon one of the shield members for lifting and supporting the other shield members at the upper portion of the frame, and a spring catch on the same shield member adapted for securing it in its elevated position in the frame; means for releasing the spring catch by manually controlled mechanism by the hand or foot, or by electrically controlled means in the alternative and means for checking the several shield members in their downward movement when released,



whereby they will be extensibly disposed so as to close the entire extent of the opening, and alarm means adapted to give a signal when the shield is closed.

1,451,361. METHOD OF MAKING SOLID GLASS RODS HAVING BENDS THEREIN. VICTOR DURAND, Jr., Vineland, N. J. Filed Nov. 14, 1921. Serial No. 514,858. 2 Claims. (Cl. 49—77.)

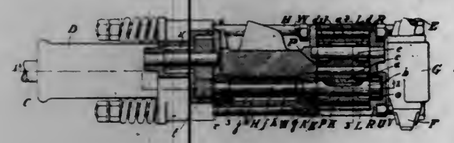


2. The process or method of making solid-glass rods with right angle bends therein which consists in manually drawing a mass of plastic glass down to a stretch of solid plastic glass, circular in cross-section and substantially uniform in diameter, laying said stretch while plastic into a groove in a hot former, said groove being substantially semi-circular in cross-section, the central or middle part of said groove lying in one plane, the two ends of said groove lying in a second plane parallel to said first-mentioned plane, and the entire groove also lying in a plane normal to said parallel planes, severing said stretch of solid plastic glass at the ends of said former, and allowing said former and the glass in the groove thereof to slowly cool.

1,451,362. INDEPENDENT ROTATION FOR PERCUSSIVE TOOLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 7, 1922. Serial No. 550,421. 4 Claims. (Cl. 121—7.)

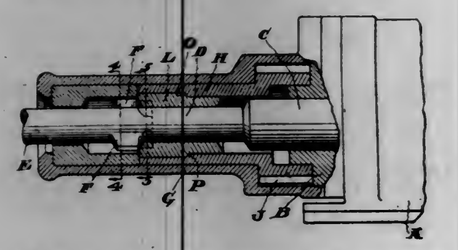
1. A fluid actuated percussive tool having a cylinder and a piston adapted to operate therein, and a motor operatively connected to rotate the drill steel, said cylinder having a projection at its rearward end formed with a plane face, said motor having a casing open at the front end and adapted to be removably secured against the face of

said projection which thereby forms one head of the motor casing, longitudinal bolts for securing the motor



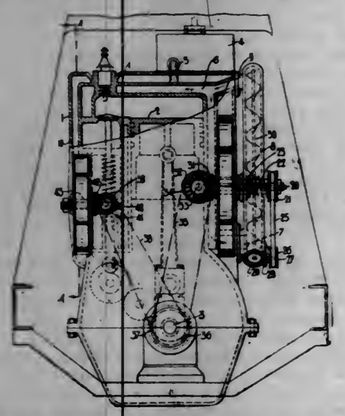
casing against the face of said projection, a back head for the cylinder extending outwardly over the motor casing, and means for clamping the back head to the cylinder.

1,451,363. LUG CHUCK FOR ROCK DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 5, 1922. Serial No. 558,689. 3 Claims. (Cl. 121—32.)



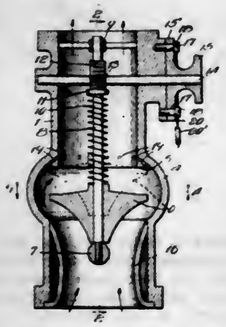
1. A lug chuck for fluid actuated rock drills of the hammer type, comprising a chuck sleeve adapted to be rotated, a removable cylindrical chuck bushing within the forward end of said sleeve seated against an internal integral shoulder on said sleeve, through which the shank of the drill steel is adapted to extend in position to receive the impact blows of the hammer piston of the machine, clutch jaws formed in both the chuck sleeve and the chuck bushing, and a driver having clutch jaws cooperating with the clutch jaws in both the chuck sleeve and chuck bushing.

1,451,364. AUTOMOBILE RADIATOR SYSTEM. JOSEPH F. KUPEC, Lincoln, Nebr. Filed Apr. 22, 1922. Serial No. 555,955. 6 Claims. (Cl. 123—170.)



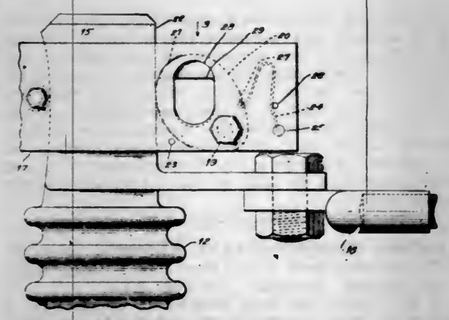
5. In combination with a combustion motor, its cylinders and crank shaft, of a water jacket surrounding said cylinders, an air jacket surrounding said water jacket, an obliquely arranged hydraulic conveyer propelling water from the lower end of said water jacket to the upper end thereof, a plurality of fans for causing air to flow through said air jacket, and means including a clutch control for transmitting drive from said crank shaft to said conveyer and to said fans.

1,451,365. GOVERNOR. DAVID L. A. LARSONNEUR, Chicago, Ill. Filed Jan. 31, 1920. Serial No. 355,424. 2 Claims. (Cl. 137—152.)



1. A governor of the character described comprising a casing having an inlet and an outlet with a widened portion intermediate said inlet and said outlet, a valve supporting stem disposed within the casing, a valve slidably mounted on said stem, an extension projecting into the widened portion of the casing, said extension contacting with the valve when the same is in a closed position, a plurality of apertures passing through said extension to provide a passageway when the valve is closed, a spring for normally urging said valve in an open position, and means for varying the pressure necessary to close the valve.

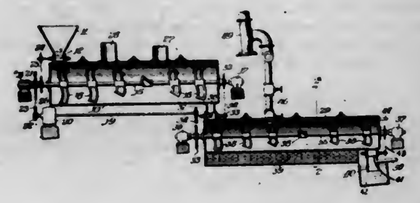
1,451,366. SWITCH LOCK. FRANK T. LEILICH, Baltimore, Md. Filed May 11, 1920. Serial No. 380,456. 4 Claims. (Cl. 200—169.)



1. In a switch lock, the combination with a movable contact maker and a fixed contact, of a cam on said maker located to engage said fixed contact at any one of a plurality of positions of said maker and prevent movement of said maker with reference to said fixed contact.

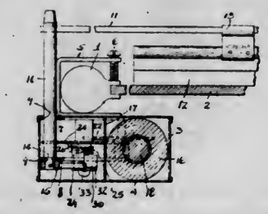
1,451,367. PROCESS OF TREATING SHALE. STEPHAN MARKO, Chicago, Ill. Filed Oct. 10, 1921. Serial No. 506,757. 2 Claims. (Cl. 48—202.)

1. A process of producing combustible gas from oil-bearing shale, consisting in agitating ground shale in the presence of dry heated gaseous products of combustion at temperatures in excess of 600 degrees F., passing the heated shale and gases to a secondary zone of treatment and there continuously agitating the shale and subjecting it to increased temperatures and adding sufficient quanti-



ties of superheated steam to the secondary stage of treatment to increase to a predetermined amount the hydrogen content of the evolved gases, separately withdrawing the gas and shale residue from the secondary stage of treatment.

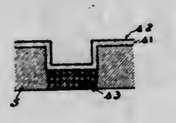
1,451,368. AUTOMATIC WINDSHIELD-CLEANING DEVICE. RICHARD E. MILLER, Bay Village, Ohio. Filed Oct. 16, 1920. Serial No. 417,857. 8 Claims. (Cl. 15—253.)



1. In a windshield cleaning device, the combination of a support adapted to be attached to a windshield, a wiper arm actuating shaft rotatably mounted upon said support, a wiper arm associated with one end of said shaft, a crank arm associated with the other end of said shaft, a spring motor connected with said crank arm, means for tensioning the spring of said motor, and automatic means for releasing said spring to permit said motor to operate.

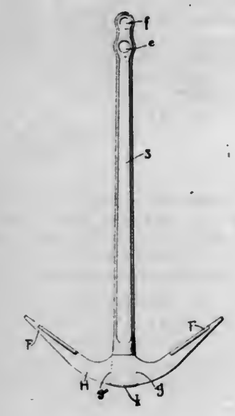
8. A windshield cleaner comprising a wiper supported to have a range of motion over the windshield, a motor having a reciprocating part, and connections between said part and wiper to actuate said wiper, including means for distributing the separate impulses of the motor, for moving the wiper through its full range of motion at substantially uniform speed.

1,451,369. STRIP SHINGLE. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Mar. 10, 1917. Serial No. 154,014. 17 Claims. (Cl. 91—67.9.)



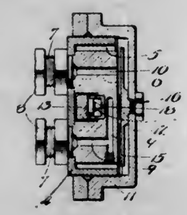
1. As an article of manufacture, a strip shingle consisting of a strip with a main body portion containing fibrous material, said strip having one or more transverse depressions extending into the main body portion of said strip.

1,451,370. ANCHOR. NORRIS D. POWELL, Chester, Pa., assignor, by mesne assignments, to Baldt Anchor & Chain Company, a Corporation of Pennsylvania. Filed Oct. 9, 1919, Serial No. 329,516. Renewed Dec. 1, 1922. 3 Claims. (Cl. 114—207.)



1. Anchor structure comprising a head having a tapered opening therein, a separate shank having at its lower end a tapered portion fitting in said tapered opening in the head, said shank at its tapered end having a depression into which said head is fitted to interlock the head and shank.

1,451,371. NEEDLE VALVE. THEODORE C. PROUTY, Elgin, Ill., assignor, by mesne assignments, to Patents Holding Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1919. Serial No. 286,986. 12 Claims. (Cl. 50—21.)

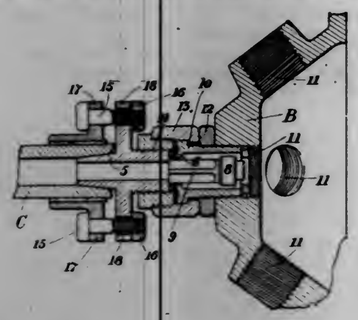


1. In an apparatus of the class described, a valve mechanism comprising a body portion provided with a valve port, a controlling sapphire needle valve for opening and closing the valve port, and means for operating said controlling needle valve.

1,451,372. AUTOMATIC VALVE FOR PNEUMATIC-HOSE FITTINGS. FRANCIS JOHN QUIN, and WILLIAM HENRY PARK, Belfast, Ireland. Filed Nov. 25, 1919. Serial No. 340,502. 4 Claims. (Cl. 284—18.)

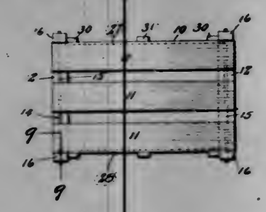
1. Means for coupling pneumatic hose to a pneumatic strainer, comprising, in combination, a tubular member

secured to the strainer and in communication with the compressed air supply, a valve seat within said member and a valve normally closed against said seat by the pressure of the compressed air, a coupling nut rotatable on



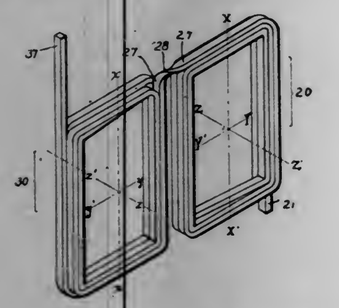
said member, a spigot on the hose adapted to be engaged by the coupling nut, and means coacting with said valve whereby it is moved from its seat when the spigot is engaged.

1,451,373. FOLDING CRATE. BYRD C. ROCKWELL, Camden, Ark. Filed June 1, 1922. Serial No. 565,146. 9 Claims. (Cl. 217—48.)



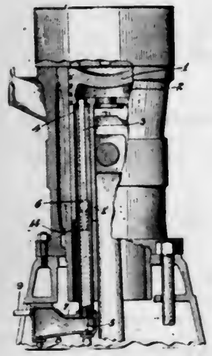
1. In a folding crate, side walls, transverse end bars pivotally connected thereto, and end walls supported by said transverse bars and pivotally movable into engagement with said side walls.

1,451,374. CONSTRUCTION OF ELECTRICAL WINDINGS. SAMUEL ROGERS, Anderson, Ind., assignor to The Remy Electric Company, a Corporation of Indiana. Filed Aug. 15, 1919. Serial No. 317,740. 11 Claims. (Cl. 140—92.2.)



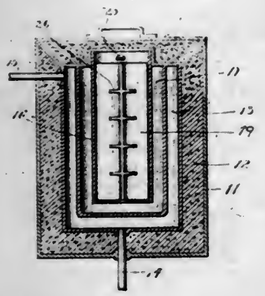
1. The method of forming coils in pairs from a continuous piece of wire which consists in forming the turns of the first coil spirally and approaching the axis of the spiral and then winding from the innermost turn of said spiral outwardly beginning with a turn adjacent to said innermost turn of the spiral so that the ends of said coil each will be continuous with and extend from outside turns of the coil; in forming the second coil in like manner, the first turn of the second coil being locatable in the same plane with the last outside turn of the first coil, and the axes of the coils being substantially parallel; and in bending and twisting the wire joining the two coils so that both coils lie with the first turn of the first coil in the same plane with the last turn of the second coil and with the last turn of the first coil in the same plane with the first turn of the second coil.

1,451,375. PISTON-COOLING DEVICE. RUDOLPH SCHLATTER, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed July 30, 1921. Serial No. 488,516. 10 Claims. (Cl. 123—176.)



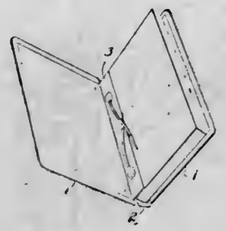
1. In a piston cooling device the combination of a water supply apparatus, a piston having a cooling chamber, and a tube in communication with said cooling chamber and forming part of extensible connections between said chamber and said supply, said tube having a relatively constricted discharge orifice adapted to produce a smooth-flowing discharging stream of water.

1,451,376. ICE-BLOCK FREEZER. HAZOR J. SMITH, Chicago, Ill., assignor, by direct and mesne assignments, of one-fourth to Willard Reid and one-half to Alfred Hastings Chapin, both of Springfield, Mass. Filed June 5, 1920. Serial No. 386,885. Renewed Oct. 10, 1922. Serial No. 593,653. 2 Claims. (Cl. 62—111.)



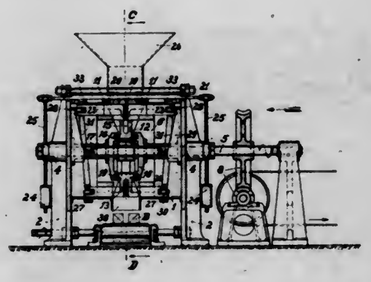
1. In combination, a can adapted to receive water to be frozen, a detachable ice block forming element within the can, comprising a stem, blades carried by the stem extending outwardly to a point in proximity to the sides of the can, alternate blades having webs at right angles thereto.

1,451,377. TEMPORARY BINDER. LOUIS STEIN, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 500,043. 11 Claims. (Cl. 129—41.)



1. A temporary binder having, in combination, two covers, two binding strips suitably related to said covers, one of said strips having openings, a cord extending through said openings, the other strip having eyelets registering with said openings, caps movably attached by the eyelets to the last mentioned binding strip and swingable on a horizontal axis alongside the eyelets over the same, and a stud on each cap adapted to enter the eyelet and clamp the cord therein.

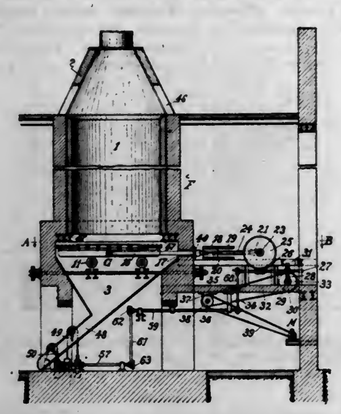
1,451,378. MOLDING PRESS. EITEL WILHELM THIELE, Hoxter-on-the-Weser, Germany. Filed Sept. 22, 1921. Serial No. 502,584. 6 Claims. (Cl. 25—78.)



1. A molding-press of the character described, comprising a molding-drum rotating in a vertical plane, moulds arranged in pairs in the circumference of said molding-drum, press-plungers horizontally disposed in pairs in said pairs of moulds, means for successively charging said pairs of moulds, means for closing each pair of moulds separately when charged, means for forcing the individual plungers of each pair of press-plungers from opposite sides into the pair of moulds charged last, means for ejecting the moulded objects from said pair of moulds, and means for retracting said pair of press-plungers, substantially as set forth.

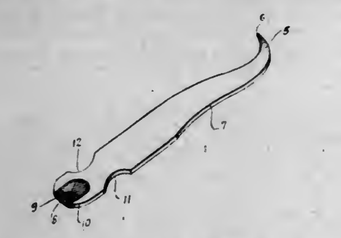
1,451,379. CONTINUOUS FURNACE FOR BURNING CEMENT AND THE LIKE. RUDOLF THIELE, Hoxter-on-the-Weser, Germany. Filed Aug. 12, 1916. Serial No. 114,514. 6 Claims. (Cl. 126—174.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A continuous furnace of the character described, having a shearing-grate consisting of grate-sections adapted to be reciprocated in their own plane in opposite direc-



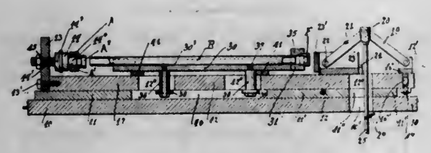
tions to each other, clinker-crushing teeth on said sections and means for reciprocating said grate-sections.

1,451,380. TOOTHPICK. RUDOLF THUM, Baldwin, N. Y., assignor to The Weva Company Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1922. Serial No. 558,624. 2 Claims. (Cl. 132—93.)



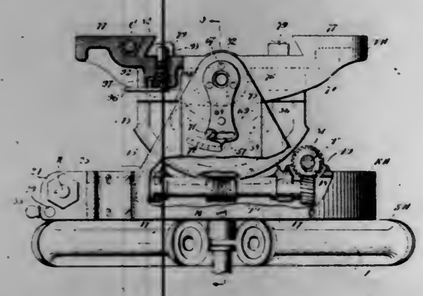
1. A tooth pick comprising a flat body member, provided with a plurality of indents, a hook formed adjacent one indent and a rounded and depressed portion formed adjacent the other indents, said indents being arranged for the reception of the opposed lips and teeth.

1,451,381. ASSEMBLING MACHINE. HARRY E. TUNNELL, New York, N. Y. Filed Apr. 5, 1920. Serial No. 371,542. 15 Claims. (Cl. 29—88.2.)



1. A machine of the character described, comprising an abutment located at one end of the machine, a sliding presser at the other end of the machine, and a cradle adapted to support some of the parts to be assembled, and located between said abutment and said presser, and freely slidable relatively to the presser and to the abutment in a direction parallel to the path of the presser, said cradle being perfectly loose so that, during the placing of such parts on said cradle, it will stay in any position to which it may be brought between the abutment and the presser.

1,451,382. APPARATUS FOR SUPPORTING CINEMATOGRAPHIC MACHINES OR THE LIKE. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed June 28, 1917. Serial No. 177,518. 22 Claims. (Cl. 248—47.)



1. In apparatus of the character described, the combination of a supporting head having a horizontally disposed base, a tiltable head mounted on and above the supporting head to rotate about a horizontal axis, a gear-wheel segment extending downwardly from the tiltable head concentrically with the said axis, the gear-wheel segment having a radius such as to extend at least to the plane of the horizontally disposed base, and a gear mounted beneath said base in operative relationship to the gear-wheel segment.

8. In apparatus of the character described, the combination of supporting means, a tiltable head mounted on the supporting means, cooperative means mounted on the supporting means and tiltable head respectively for tilting the head, and means for adjusting the tiltable head toward and from the supporting means.

18. In combination with a photographic device having two parallel lens system, a stationary head, and means on the stationary head cooperating with the photographic device for limiting lateral movement of the photographic device in two directions, so that when the photographic device is in one extreme position one lens system is in alinement with a certain optical path and when the photographic device is in the other extreme position the other lens system is in alinement with the same optical path.

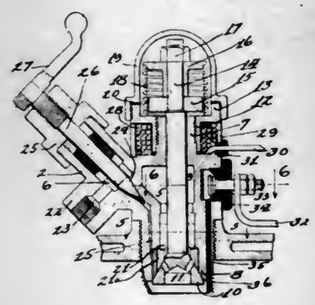
20. Cinematographic apparatus comprising a stationary head, a rotatable head mounted on the stationary head to rotate about a vertical axis, means for mounting a power-driven device upon the rotary head, and a power shaft extending through said heads for transmitting power to said device, the power shaft extending along said axis so that the rotatable head may be rotated thereabout.

1,451,383. BOX FOR FLAT METAL TABLEWARE. CLARENCE C. WILSON, Bridgeport, Conn. Filed Mar. 2, 1922. Serial No. 540,495. 7 Claims. (Cl. 206—44.)



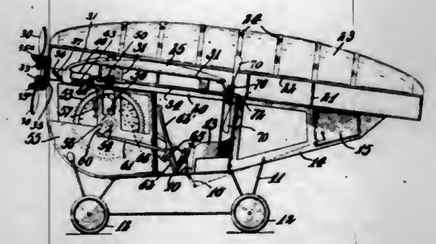
1. A display box including a platform provided with an opening therein, and a bridge mounted in said opening comprising a cardboard strip folded to form a ridge above the platform, said ridge being provided with an article receiving recess.

1,451,384. SOLENOID-CONTROLLED FUEL INJECTION AND IGNITION VALVE. JOHN WHYTE, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,894. 8 Claims. (Cl. 123—33.)



1. In a valve for internal combustion engines, a valve seat, a fuel duct leading to said valve seat, a valve cooperating with said valve seat to stop the flow of fuel from said duct, a chamber on the same side of said valve as said duct, passages through said valve leading to said chamber, and a one-way valve controlling said passages.

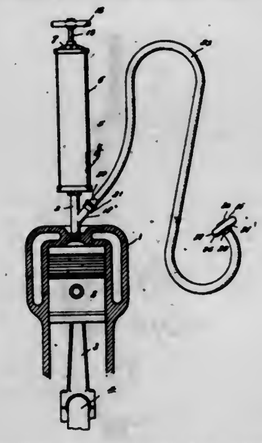
1,451,385. MANUALLY-PROPELLED FLYING MACHINE. JOSEPH ARDO, Newhall, W. Va., assignor of one-half to Kalman Horvath, Newhall, W. Va. Filed Dec. 30, 1921. Serial No. 525,993. 3 Claims. (Cl. 170—163.)



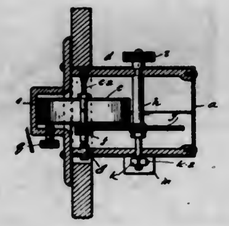
1. In a flying machine, a propeller comprising a pair of radial blades, a propeller shaft, a T-head fixed on said shaft and having said blades rotatably mounted thereon, a bevel gear loosely encircling said shaft, bevel pinions fixed to said blades and meshing with said bevel gear, a sleeve feathered on said shaft and having a pin and spiral groove engagement with said bevel gear, and means for adjusting said sleeve longitudinally of said shaft, said means comprising a second sleeve loose on said shaft and having a feather connection with a fixed part and bearing at one end said first sleeve, a spring bearing against the other end of said first sleeve.

1,451,386. METHOD OF AND APPARATUS FOR DETECTING FAULTY ENGINE CONSTRUCTION. THOMAS J. BROOKS, Sheridan, Pa. Filed June 1, 1922. Serial No. 565,178. 2 Claims. (Cl. 116—114.)

2. A detector for engines comprising a pump, means for connecting said pump to the engine cylinder, said pump being operable to create a vacuum and pressure in said cylinder and so influence the piston therein to move in the event of the piston being loose, a sound transmitter connected to said means whereby any sounds given off by the piston may be interpreted, said sound transmitter comprising an amplifying and transmitting diaphragm, a flexible tube in communication with said diaphragm and an ear piece on said tube.



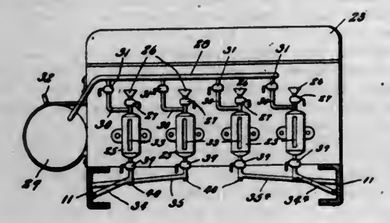
1,451,387. GRADOMETER. FRED T. BURNS, Detroit, Mich., assignor of one-third to Jay J. Burns, Race Track, Mont., and one-third to Frank L. Fisher, Butte, Mont. Filed Mar. 2, 1921. Serial No. 449,187. 2 Claims. (Cl. 33—218.)



2. The combination with a motor vehicle instrument board of a gradometer comprising, in combination, a casing rigidly secured to said board, a drum rotatably journalled in said casing and bearing on its periphery a reading scale, a spindle journalled in said casing and projecting at one end through the wall of the casing, a pendulum suspended from the projecting end of the spindle and adapted to rotate the spindle relative to the casing as the inclination of the casing is changed, said pendulum being rotatably adjustable on said spindle, and means operatively connecting the drum with the pendulum controlled spindle so as to be rotated thereby and in proportion to the rotation thereof.

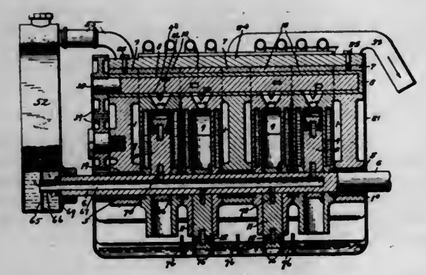
1,451,388. CHASSIS LUBRICATING AND CLEANING SYSTEM. JOHN L. FAY, St. Louis, Mo. Filed Feb. 23, 1921. Serial No. 447,068. 4 Claims. (Cl. 184—7.)

4. In an automobile chassis lubricating system, the combination with the chassis bearings, of a container adapted to receive a suitable liquid, means for controlling the communication between said container and the atmosphere, a main conduit leading from said container, branch conduits leading from said main conduit to said bearings, a valve in said main conduit, a compressed air tank, pipe connection between said air tank and the upper end of said container for admitting compressed air to the latter and thereby force the liquid therefrom into the



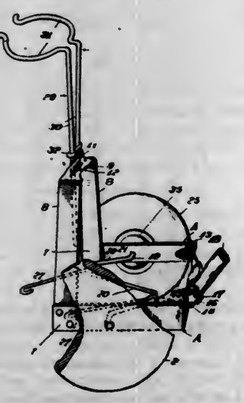
chassis bearings, and a manually operable valve for controlling the admission of compressed air from said air tank to said container.

1,451,389. INTERNAL-COMBUSTION ENGINE. THOMAS W. GRANNAN and WILLIAM D. GRANNAN, Loogootee, Ind. Filed June 3, 1921. Serial No. 474,634. 20 Claims. (Cl. 123—42.)



1. In an internal combustion engine, the combination of a straight driving shaft; rectangular cylinders mounted to oscillate about an axis parallel to said shaft; a valve shaft rotatable about said axis to control the admission and exhaust of the motive fluid to and from said cylinders; disc pistons mounted eccentrically on the driving shaft, one within each cylinder, a yoke surrounding each piston and shoes carried by said yokes so as to slide on the walls of the cylinders.

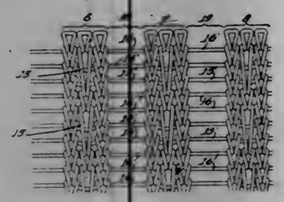
1,451,390. DOLL WALKER. ROBERTA W. HENDRIX, Chicago, Ill. Filed Aug. 18, 1919. Serial No. 318,129. 3 Claims. (Cl. 46—40.)



3. In mechanism of the class described, the combination of a wheel supported frame having an upstanding in-

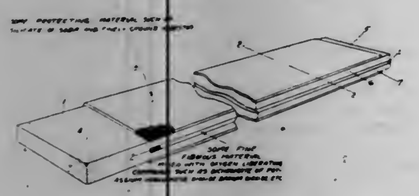
verted U shaped section formed of a metal strip and having the central portion of its arm connection turned to lie substantially in a plane extending longitudinally of the arms and provided with spaced parallel slits transverse the section, the portion of the arm connection between the slits being curved oppositely to the portion above and below the slits to provide a socket formation, a figure supporting device engaged in said socket formation, and a crank device for connecting the supporting wheels to parts of a supported figure.

1,451,391. OPENWORK KNITTED FABRIC AND METHOD OF PRODUCING SAME. RALPH HINCHLIFF, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 1, 1922. Serial No. 585,725. 14 Claims. (Cl. 66—4.)



1. An open work knitted fabric, comprising alternately disposed webs and open work stripes, each web consisting of a plurality of knitted wales, and each stripe consisting of transversely extending yarns arranged in successive groups throughout the length of the stripe, each group comprising yarns of varying lengths.

1,451,392. ELECTRODE FOR ELECTRIC-ARC CUTTING OR REDUCING. CLAUDE J. HOLSLAG, South Orange, N. J., assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Filed Nov. 15, 1921. Serial No. 515,299. 16 Claims. (Cl. 219—12.)

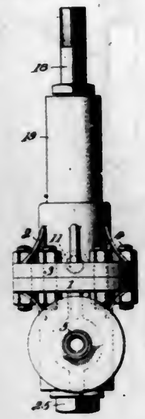


1. An electrode for use in electric arc cutting or reducing comprising a material arranged in substantially two sections and carrying a compound between said sections, said compound being adapted under the heat of the arc to give up oxygen freely for the purpose described.

1,451,393. HOMOGENIZING VALVE. DIEDRICH FREDERICH HORMANN, Oklahoma, Okla., assignor of one-half to Edward Freeman Comegys, Oklahoma, Okla. Filed June 6, 1922. Serial No. 566,430. 13 Claims. (Cl. 99—2.)

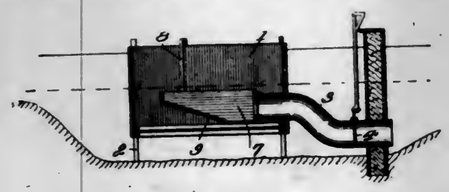
6. A homogenizing valve comprising a casing having a suitable fluid passage therethrough, a stack of homogenizing annuli arranged with their central apertures concentric with said passage, a perforated centering sleeve surrounding said annuli, and constructed and arranged to maintain said annuli in centered position.

13. A homogenizing valve comprising a body having a fluid passage therethrough, a disk seat adjustably threading into said body and provided with a bore registering with said passage, a stack of annuli seated on said disk seat, a stem threading into said body and pressing



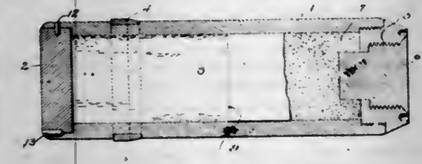
said annuli to said seat, a pin disposed in said fluid passage and provided with a tapering head and arranged concentrically within the bore of said annuli.

1,451,394. FISH SCREEN. FREDERICK G. HURST, Portland, Oreg. Filed Nov. 1, 1921. Serial No. 511,994. 8 Claims. (Cl. 210—172.)



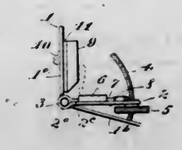
1. A fish screen comprising, a stationary crib, means for securing said crib in such position that the water will flow upwardly through its lower side, a flow spreading device in said crib and communicating with an outlet, and an outlet leading from said crib.

1,451,395. SPOTTING PROJECTILE. OLAF M. HUSTVEDT and HARRY J. NICHOLS, Washington, D. C. Filed Aug. 30, 1920, Serial No. 408,407. Renewed Aug. 29, 1922. Serial No. 585,079. 10 Claims. (Cl. 102—26.)



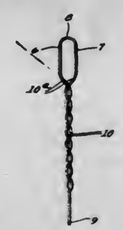
6. The herein described method whereby determination of the errors of salvo gun fire is made possible which consists in loading each gun with a projectile having the known diffusible pigment adapted to color the splash or make a colored cloud on impact, firing said guns in salvo and identifying the fall of the projectile from each gun by the different colored splashes or clouds produced by the differently colored diffusible pigments.

1,451,396. SHEARS SHARPENER. WALTER JONES, Cleveland, Ohio. Filed Sept. 9, 1921. Serial No. 499,461. 2 Claims. (Cl. 76—82.)



1. In a shear sharpening device, the combination of a fixed angle bracket; an adjustable leaf hinged in the angle of said bracket; an abrasive element removably mounted on said leaf; means for arcuately adjusting the angular relation of said abrasive element to the bracket; and an adjustable guide attached to the bracket.

1,451,397. HAIRPIN. JOSEPH C. KUCEWICZ, Cleveland, Ohio. Filed July 31, 1922. Serial No. 578,682. 1 Claim. (Cl. 132—50.)



A hair pin having two branchs and a connecting bend, the branches extending from the bend with straight portions located in a single plane, both branches being coiled in the same direction to form helices on different axes, which axes diverge from the plane of the straight portions.

1,451,398. INSTRUMENT FOR REMOVING THE TESTICLES OF BIRDS. VICTOR D. LESPINASSE, Chicago, Ill. Filed June 26, 1922. Serial No. 571,080. 6 Claims. (Cl. 128—306.)



1. An instrument for seizing and raising the testicle of a bird, comprising a handle and a member having an eye and a slot communicating with the said eye, substantially as described.

1,451,399. PROCESS OF PRODUCING HALOGEN ACIDS. FRANK S. LOW, Niagara Falls, N. Y., assignor to Weaver Company, Madison, Wis., a Corporation of Wisconsin. Filed Feb. 8, 1918. Serial No. 216,062. 11 Claims. (Cl. 23—1.)

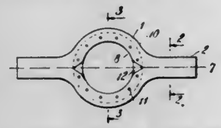
1. The process of producing a halogen acid by vaporizing a halide, which combines with H_2O and directly treating such vapor with water vapor.

1,451,400. BRUSH CONSTRUCTION. GEORGE MOE, Saginaw, Mich. Filed Mar. 7, 1922. Serial No. 541,732. 3 Claims. (Cl. 15—164.)



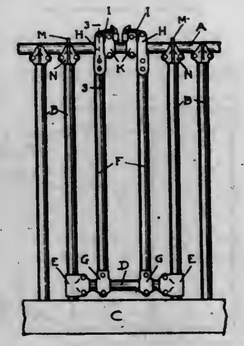
3. The combination of a body having a pivot bearing, a handle having a twisted wire shank having the free extremities of the wire separated, one extremity being bent to form an eye, and the other bent transversely of the shank and extended through said bearing and said eye.

1,451,401. AXLE HOUSING AND METHOD OF MAKING SAME. THOMAS E. MURRAY and THOMAS E. MURRAY, Jr., Brooklyn, N. Y. Filed Nov. 30, 1921. Serial No. 518,743. 10 Claims. (Cl. 29—153.)



1. An axle housing or the like comprising an enlargement with inward flanges and with a tubular extension from the side, said housing being formed of longitudinal segments the edges of which are united along the tubular extension but diverge where the latter merges into said flanges.

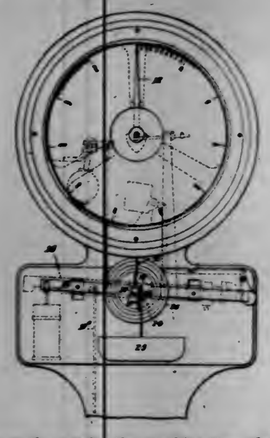
1,451,402. ANIMAL STANCHION. ALBERT H. NELLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Jan. 19, 1922. Serial No. 530,362. 4 Claims. (Cl. 119—147.)



1. In animal stanchions, a stanchion bar pivotally supported at its lower end, a horizontally disposed rail upon which the upper end of the stanchion bar is adapted to

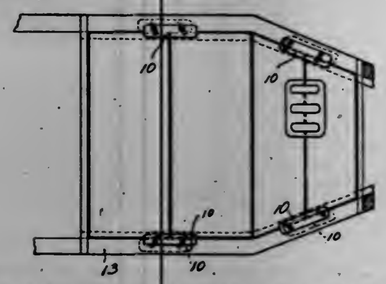
slide from one position to another, a catch applied to the horizontally disposed rail on each side of the upper end of the stanchion bar, a latch pivoted at one end to the upper end of the stanchion bar and adapted to be turned over from one side to the other, and oppositely disposed hooks on the free end of said latch having sloping outside edges adapted, as the latch is turned over, to automatically slide over and co-act with the opposite catches on the horizontally disposed rail, and without additional mechanism, to alternately lock the stanchion bar in open as well as in closed position.

1,451,403. COUNTING DEVICE FOR SCALES. LOUIS A. OSGOOD, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Jan. 16, 1920. Serial No. 351,975. 14 Claims. (Cl. 265—30.



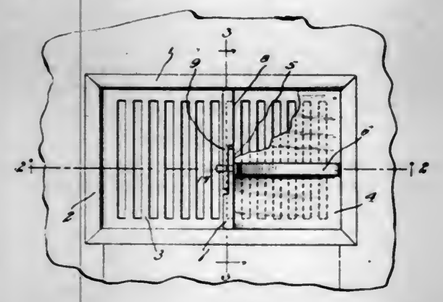
1. In a counting scale, the combination of a main scale beam, an automatic counterbalance therefor, an indicator displaceable from zero in accordance with the displacement of the beam, a pair of counting beams movable in unison with the main beam, a receiver carried by one of said beams and shiftable relatively to the fulcrum of the main beam, a counterbalancing poise carried by the other beam and also shiftable relatively to the fulcrum of the main beam, and means for moving the counterbalancing poise and receiver in unison and thereby causing the weight of the articles in the receiver to react upon the main scale beam and its automatic counterbalance, and thereby displace the indicator to zero and show that the applied load is balanced by the articles in the receiver.

1,451,404. AUTOMOBILE FLOOR-BOARD CLAMP. JOSEPH W. PARKS, Altoona, Pa. Filed Dec. 7, 1920. Serial No. 429,022. 1 Claim. (Cl. 296—1.)



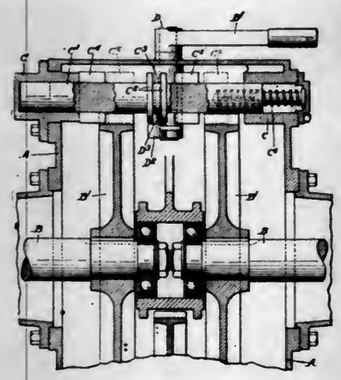
A lock for vehicle floor boards including in combination with the side rails of the chassis having rabbeted floor board receiving seats, abutment elements carried by the upper face of the said side rails and spaced from the upper edge of the rabbet, and a clamping plate having tapering slots fitting over the said abutments, and the said slots being arranged so that their narrow ends wedge onto the abutments when the plate is shifted into position to overlie the edge of said floor boards.

1,451,405. MEANS FOR REDUCING THE CAPACITY OF FIRE BOXES. LEONARD C. PETERS, Providence, R. I. Filed Dec. 22, 1921. Serial No. 524,066. 1 Claim. (Cl. 126—147.)



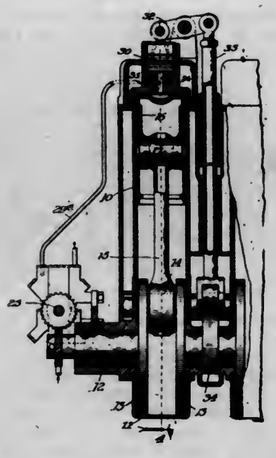
Means to reduce the capacity of fire box, comprising an imperforate fireproof mat, a brace adapted to be superimposed on said mat, a partition including sections with lapped portions, and horizontal oblong openings therein, and a stem projecting from the end of the brace and terminating in an upright T-head, said stem adapted to extend through said openings in the partition sections, and said T-head adapted to rest at the opposite side of the partition with reference to the major portion of the brace.

1,451,406. DRIVE-WHEEL-LOCKING DEVICE. JAMES ROSS, Laporte, Ind., assignor to Advance Rumely Company, Laporte, Ind., a Corporation of Indiana. Filed Mar. 14, 1921. Serial No. 452,067. 11 Claims. (Cl. 74—100.)



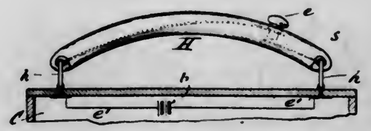
2. In a transmission a plurality of separately mounted driven gears, and means for causing them to rotate in unison at the same speed, said means comprising a driven shaft rotating about its own longitudinal axis and having a plurality of pinions fixed upon it, and means for causing each of said pinions to mesh with one of said gears, said means comprising said rotary shaft upon which said pinions are fixed and means for movng it axially to cause said pinions to mesh with said gears.

1,451,407. INTERNAL-COMBUSTION ENGINE. CHARLES E. SARGENT, Indianapolis, Ind. Filed June 27, 1919. Serial No. 307,160. 4 Claims. (Cl. 123—33.)



1. In a Diesel-type engine, a cylinder, a piston therein, a chamber adjacent the cylinder and communicating therewith, means for supplying a measured charge of fuel to said chamber, an auxiliary cylinder, a pressure piston therein, a passage connecting said cylinders, a hollow tube slidable in said passageway, means for moving said tube to close communication between said cylinders near the end of the compression stroke of the main piston, means for forcing down the pressure piston for compressing the charge of gas in the pressure cylinder, said tube upon a further movement opening communication between the pressure cylinder and main cylinder through said chamber.

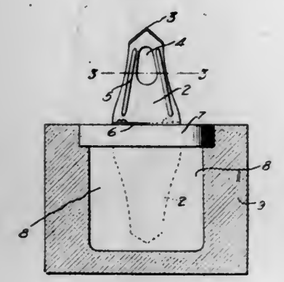
1,451,408. PORTABLE-CONTAINER HANDLE. ISIDOR SCHNEIDER, New York, N. Y. Filed Jan. 18, 1922. Serial No. 530,075. 2 Claims. (Cl. 240—8.4.)



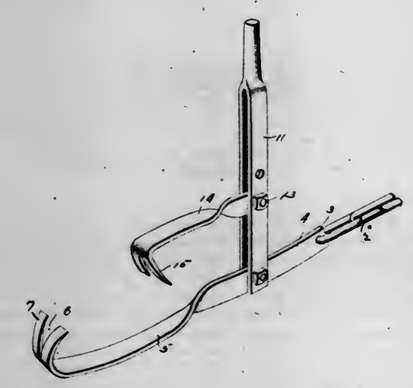
1. In combination with a portable container of the character designated, a flexible handle connected therewith by metallic loops, an electric flash lamp and circuit switch incorporated with said flexible handle, a battery in the container, and said metallic handle loops electrically connected with said battery and with said handle flash light and switch, substantially in the manner set forth.

1,451,409. CARPET-RAG LOOPER. MARY A. SEARS, Los Angeles, Calif. Filed Aug. 24, 1922. Serial No. 584,026. 2 Claims. (Cl. 28—16.)

1. As an article of manufacture, a rag slitting blade of thin sheet metal, the width of which is tapered smaller from the lower part to an acute angle at the top, the sides of which acute angle are sharpened to cutting edges, said blade medially apertured and having ridges stamped or embossed in it along each side of the aperture from adjacent the base, and means for securing said blade to a base.

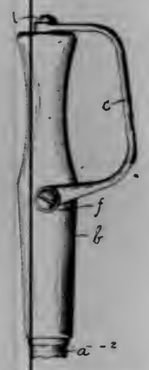


1,451,410. WIRE STRETCHER. ANDREW E. TRINKEL, Jeffersonville, Ind. Filed June 12, 1919. Serial No. 303,578. 1 Claim. (Cl. 254—74.)



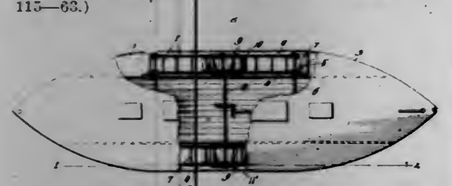
A wire stretcher comprising a relatively long bar, a relatively short bar, each of said bars being formed from a flat strip of metal twisted intermediate their ends to provide a body and a right angularly disposed shank, inwardly bent chain engaging claws formed on the forward terminals of the bodies of the bars, the shank of the relatively long bar extending rearwardly of the shank of the relatively short bar, an anchoring member secured to the rear end of the extended shank of the relatively long bar, and an operating lever including a handle and a bifurcated portion defining a pair of spaced arms, the lower terminals of the arms straddling the shank of the relatively long member at a point intermediate its ends, means pivotally securing the arms to the last mentioned shank, the rear terminal of the shank of the relatively short bar being disposed between the arms above the shank of the relatively long bar, and means pivotally securing the shank of the relatively short bar to said arms.

1,451,411. CYCLE HANDLE. ALEXANDER WENDLING, Detroit, Mich. Filed July 14, 1921. Serial No. 484,683. 1 Claim. (Cl. 208—126.)



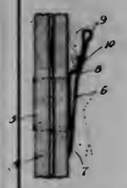
In a device of the class described, a hand grip, a hand guard secured at one end to the rear end of said hand grip, the opposite end of said hand guard forked so as to straddle said hand grip, means securing said forked end to said hand grip.

1,451,412. BOAT PROPULSION MEANS. JAMES YOUNGSON, Winston-Salem, N. C., assignor of one-half to Michael D. Gantt, Winston-Salem, N. C. Filed Aug. 27, 1921. Serial No. 495,857. 2 Claims. (Cl. 115—63.)



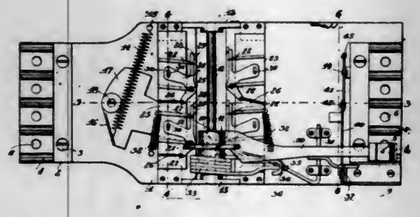
2. Boat propulsion means including chains equipped with paddles, paddle wheels cooperable with the chains, said chains and paddle wheels being arranged adjacent the sides of the boat, and perforate walls arranged beneath said paddle wheels and paddle chains and extending upwardly at the sides thereof, in parallelism with the sides of the boat to encase said wheels and chains.

1,451,413. PENCIL PIN AND CLIP. PETER ANDERSON, Owatonna, Minn. Filed Oct. 4, 1920. Serial No. 414,545. 1 Claim. (Cl. 24—12.)



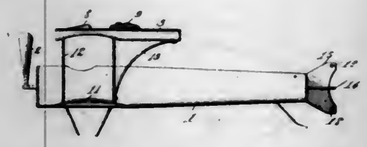
A pencil pin and clip bent from a single piece of metal, comprising a gripping band encircling a pencil, an elongated sticking member bent from and spring fulcrumed on the said gripping band, operative when pried out to pin the pencil to a piece of clothing and when released to clip the pencil to the pinned clothing, a lever head formed by the bend on the upper end of the said sticking member above the fulcrum, operative to spring the sticking member out when force is applied against the said lever head, and means of fastening the folded parts of the said lever head together near the fulcrum point.

1,451,414. BURGLAR ALARM. ROY BARRETT, Palmyra, N. Y. Filed Mar. 30, 1922. Serial No. 548,204. 20 Claims. (Cl. 116—23.)



20. A burglar alarm comprising a recoil actuated oscillatory hammer movable in the direction of its axis of oscillation, means for supporting said hammer for oscillatory movement and also movement in the direction of its axis of oscillation, two members arranged on opposite sides of the axis of oscillation and each carrying a series of abutments, the abutments on the two members being arranged in staggered relation so as to be alternately engaged by the hammer, swinging members on which said abutment carrying members are mounted, pin and slot connection between each abutment carrying member and its swinging members, stops limiting the movement of the swinging members, means acting on the swinging members to hold them in cooperation with the stops while permitting the abutment carrying members to move away from the axis of oscillation of the hammer when the hammer is moved to its initial position, and springs acting on the abutment carrying members for holding the latter in position on the swinging members which will permit the abutments to yield in the direction of its axis of oscillation of the hammer after the hammer engages such abutments in moving away from its initial position.

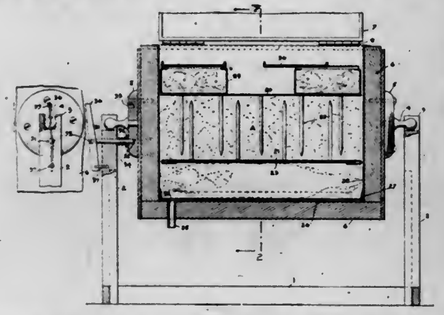
1,451,415. AEROPLANE. GUSTAVUS BESS, Scappoose, Oreg. Original application filed July 8, 1921, Serial No. 483,226. Divided and this application filed Aug. 30, 1922. Serial No. 585,176. 2 Claims. (Cl. 244—12.)



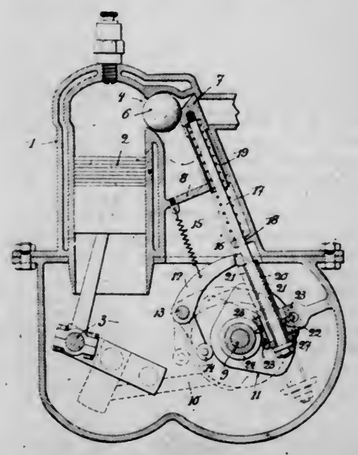
1. An aeroplane including a central wing arched longitudinally, a cambered wing projecting laterally from each side of the central wing, a straight wing projecting laterally of the central wing and behind each cambered wing, each straight wing being relatively disposed on the same straight lines with the arch of the cambered wings extending above the plane of the straight wings, and a cambered wing below each first mentioned cambered wing and in spaced relation thereto.

1,451,416. ICE BOX FOR FISH AND OTHER SEA FOODS. LAUREN M. BOWLUS, San Luis Obispo, Calif. Filed Aug. 14, 1922. Serial No. 581,694. 7 Claims. (Cl. 62—31.)

1. An ice box comprising a receptacle open on opposite sides, closures for said open sides, means on which the receptacle is reversibly mounted, partitions extending across the receptacle for containing therebetween a quantity of ice, said partitions providing fish storage spaces between them and the closures.



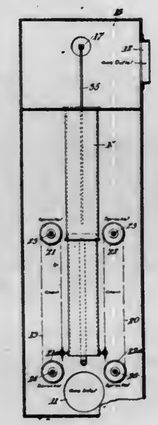
1,451,417. INTERNAL-COMBUSTION ENGINE. HENRI COLNOT, Paris, France. Filed Apr. 26, 1922. Serial No. 556,698. 6 Claims. (Cl. 123—75.)



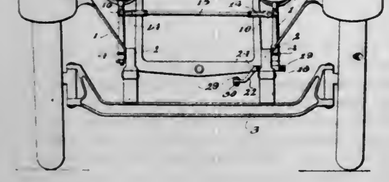
5. In an internal combustion engine, a power cylinder, a piston, engine valves constituted by balls, seats formed in the walls of the cylinder and cooperating with the said balls, a push-piece for each ball having a reciprotating motion and adapted to impel the ball upon its seat and to hold it in position, a sleeve disposed upon the end of the said push-piece farthest from the said ball, the said push-piece being provided with longitudinal ribs and having an intermittent rotation, a lever oscillating at regular intervals, a fixed axle having the said lever mounted thereon, the latter being adapted to bear at times upon the grooves of the said sleeve for opening the valve, and at other times to engage in the spaces between the said ribs while the said valve is closed.

1,451,418. ELECTRIC PRECIPITATOR. EDWARD P. DILLON and ALBERT A. HEIMROD, New York, N. Y., assignors to Research Corporation, New York, N. Y., a Corporation of New York. Filed June 15, 1922. Serial No. 568,571. 12 Claims. (Cl. 183—7.)

1. The combination with a stationary tubular body constituting a collecting electrode and a discharge electrode therein, of a tubular member having a sliding fit in the tubular body and provided at one end with means defining a scraper edge and means engaging the other end of the tubular member for reciprocating the same.



1,451,419. DIRIGIBLE HEADLIGHT. THOMAS O. DILLS, Batesville, Miss. Filed Oct. 17, 1921. Serial No. 508,196. 1 Claim. (Cl. 240—62.)



In a device of the character described, the combination of a pair of lamp spindle casings secured to the frame of an automobile, having a rotatably connected lamp spindles mounted therein, of a laterally and inwardly extending member with respect to the frame of the automobile, secured to the lower end of one of said spindles, the outer end of said member being bifurcated and notched on its under face at the inner edge of said bifurcation, an inclined connecting plate in the same vertical plane with said member having its upper and lower ends extending parallel and outwardly in different horizontal planes, the upper end of said plate being mounted on a horizontal pivot between the bifurcations of said member, a forwardly extending lip on said end adapted to be positioned in the recess in said member, a bent spring disposed within said recess and engaged by said lip, and the lower end of said plate having a right angular pivotal connection with the steering mechanism of the automobile.

1,451,420. MILK RECEPTACLE. NORMAN E. GEE, Altoona, Pa., assignor of one-half to Joseph W. Parks, Altoona, Pa. Filed Aug. 11, 1922. Serial No. 581,182. 4 Claims. (Cl. 215—51.)

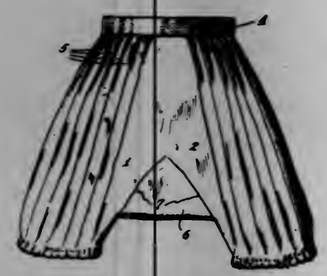
1. In combination, a milk bottle, a receptacle cover or cap adapted to be fitted to the top of the receptacle and

a ledge upon which the receptacle cap is adapted to rest, said ledge being crescent shaped on one side, and an oblong projection at the other side whereby the edge of



the cap adjacent the oblong ledge is turned upward by pressure placed on cap between the said ledge and the centre of the receptacle.

1,451,421. BLOOMERS. IRVING GOODMAN, New York, N. Y. Filed June 18, 1921. Serial No. 478,480. 1 Claim. (Cl. 2—122.)



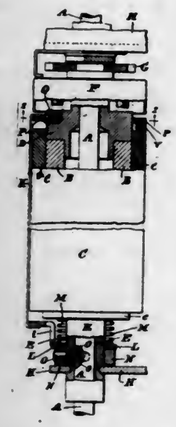
A pair of bloomers consisting of front and rear body covering portions, each provided with an inverted V shape crotch portion, and a substantially large diamond shape gusset folded upon itself to form triangular front and rear portions, the edges of said front and rear triangular portions being connected to the edges of said front and rear crotch portions with the folded portion of said gusset extending between the leg portions of said bloomers and at approximately the knee portions thereof.

1,451,422. SOUND SIGNALING DEVICE FOR DENSE SOUND-PROPAGATING MEDIUMS. WALTER HAHNEMANN, Kitzeberg, near Kiel, Germany, assignor to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Filed Feb. 4, 1921. Serial No. 442,586. 7 Claims. (Cl. 181—32.)



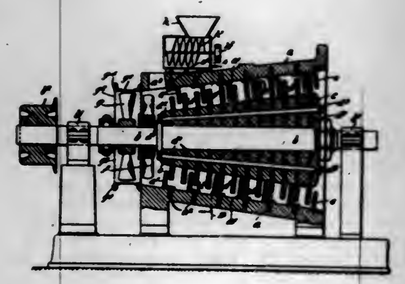
1. A composite sound radiating structure for submarine acoustic apparatus, comprising two diaphragms and a layer of liquid therebetween, the composite structure being tuned as a whole to a definite frequency.

1,451,423. TYPEWRITING MACHINE. GEORGE F. HANDLEY, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed May 27, 1922. Serial No. 564,099. 11 Claims. (Cl. 197—144.)



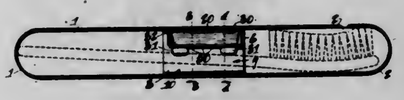
1. In a typewriting machine, the combination of a main platen and an auxiliary platen associated therewith and movable from an inactive position removed from the line of print to an active position in the line of print, and spring controlled means for maintaining yielding frictional connection between the two platens.

1,451,424. MEANS FOR GRINDING OR PULVERIZING FOOD OR OTHER SUBSTANCES OF A SIMILAR NATURE. RONALD HEAD, Luton, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y., a Corporation of New York. Filed Sept. 3, 1921. Serial No. 498,409. 4 Claims. (Cl. 83—11.)



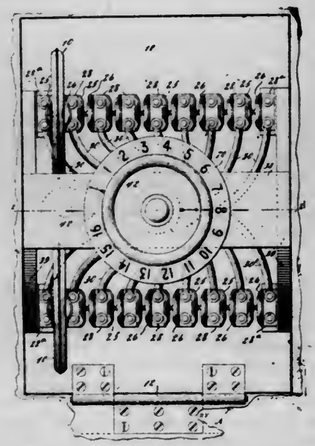
1. An apparatus for grinding or pulverizing food and similar products comprising in combination a stationary conical casing open at both ends, beaters or reducers, carried by the inner wall of said casing, a conical member within said casing leaving an annular channel between itself and the casing wall, outer beaters or reducers carried by said conical member and co-operating with those in the casing, a screw or propeller at the inlet end of the casing adapted to force the material towards and into engagement with the cooperating beaters or reducers of the casing and conical member, a forcing fan mounted outside the casing adjacent the inlet end thereof on the same shaft as the conical member, for impelling air through the annular channel and onto the material treated by the beaters or reducers therein, and a segmental covering ring at the discharge end of the casing, said ring cooperating with the beaters or reducers on the conical member and assisting the eduction or ejection of the treated material.

1,451,425. STERILIZING HOLDER FOR TOOTH-BRUSHES. ROY F. HURLEY, Galesville, Wis., assignor to Albert T. Twesme, Galesville, Wis. Filed Jan. 31, 1922. Serial No. 533,022. 7 Claims. (Cl. 206—15.1.)



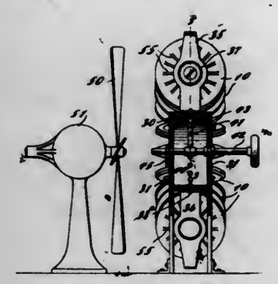
1. In a tooth brush holder, a receptacle for a tooth brush composed of two like sections arranged for end to end connection, a coupling member for frictionally engaging the abutting ends of the two sections, one of the said sections being adapted for engaging the coupling member under less frictional contact than the contacting engagement of the other holder section with the coupling member, whereby to readily pull from off the coupling member, when it is desired to open the holder to remove the brush.

1,451,426. SPARK-GAP APPARATUS. LAWRENCE J. LESH, New York, N. Y., assignor to Emil J. Simon, New York, N. Y. Filed Apr. 9, 1918. Serial No. 227,440. 23 Claims. (Cl. 250—38.)



3. Spark gap apparatus, comprising a plurality of gap unit holders each having spring contact pieces to bear against opposite sides of a gap unit, said contact pieces of each holder being under tension to bear against each other to close the circuit at the holder when there is no gap unit in place therein, and electrical connections between the holders.

1,451,427. SPARK-GAP APPARATUS. LAWRENCE J. LESH, New York, N. Y., assignor to Emil J. Simon, New York, N. Y. Filed June 5, 1918. Serial No. 238,310. 14 Claims. (Cl. 250—38.)



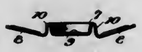
6. Spark gap apparatus, comprising a plurality of independently removable spark gap units supported radially about and at approximately equal distances from a common axis with adjacent units flatwise to each other.

1,451,428. RESILIENT BEARING SLEEVE. HARRY R. LONTZ, Richmond, Ind. Filed Aug. 22, 1919. Serial No. 319,223. 4 Claims. (Cl. 64—10.)



1. A device of the character described composed of an integral piece of resilient sheet-metal and having a shaft-receiving hub portion and a plurality of shaft gripping fingers which engage the shaft only at their outer ends.

1,451,429. METHOD OF MAKING RESILIENT BEARING SLEEVES. HARRY R. LONTZ, Richmond, Ind. Original application filed Aug. 22, 1919, Serial No. 319,223. Divided and this application filed Jan. 12, 1921. Serial No. 436,759. 9 Claims. (Cl. 113—116.)

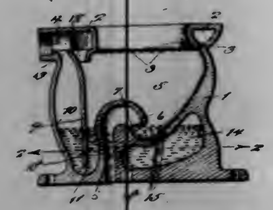


1. The method of making a resilient bearing sleeve which comprises cutting a blank with radial arms, forming a hub-like part at the center of said blank, bending back portions of said arms at their junction with the hub-like part and bending the remaining arm portions at an angle to the bent back arm portions, and re-bending the bent back arm portions to bring the arms into the form of a sleeve.

1,451,430. TOILET HOPPER. WALTER G. MUNKEL, Anamosa, Iowa. Filed Oct. 11, 1919. Serial No. 329,981. 3 Claims. (Cl. 4—22.)

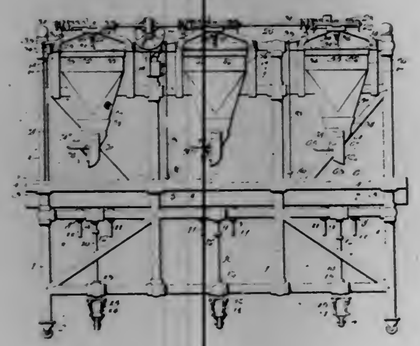
2. As an article of manufacture, a hopper comprising a body having a bowl terminating in an outlet trap, a

water storage space at the back of the trap and being communicatively connected with the interior of the bowl, said space extending under the bowl, the portion of said



space under the bowl having apertures of communication with the bottom of the bowl, whereby the bottom of the bowl may be cleansed, and jets of water directed toward and through the trap.

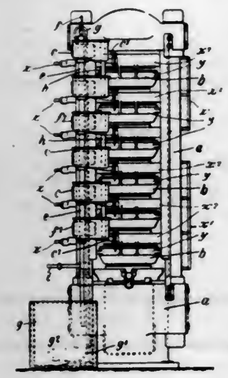
1,451,431. APPARATUS FOR POSITIONING MATERIALS. WILSON R. MYERS, Portland, Oreg., assignor of one-third to George W. Burt and one-third to George W. Weatherby, both of Portland, Oreg. Filed Mar. 28, 1921, Serial No. 456,111. Renewed Apr. 10, 1922. Serial No. 551,210. 41 Claims. (Cl. 226—101.)



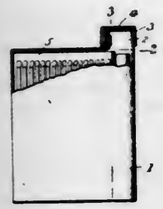
1. In apparatus of the class described, a support, a table including a raisable element, a reservoir for the mix mounted on the support above the table and including a valved throat designed to fit within the mold into which the mix is to be deposited and shaped with its outlet opening in a direction to lay a ribbon horizontal of mix in the mold on movement of the mold horizontally, when said mold is held in place by said raisable element.

1,451,432. CHARGING OF COCOA-BUTTER PRESSES AND THE LIKE. WILLIAM EDWARD PRESCOTT, London, England, assignor to Joseph Baker & Sons, Limited, London, England. Filed Sept. 27, 1919. Serial No. 326,930. 4 Claims. (Cl. 100—50.)

1. In charging apparatus for cocoa butter presses and the like the combination with a series of withdrawable pans of a series of charging vessels for said pans disposed in proximity to the press, means for charging said vessels each with a measured quantity of liquid, means for moving said vessels towards the withdrawn pans, and means for discharging the contents of said vessels into the pans.



1,451,433. COMBINED MATCH AND CIGARETTE CASE. FREDERICK K. RICKSECKER, Washington, D. C. Filed Sept. 22, 1921. Serial No. 502,458. 2 Claims. (Cl. 206—48.)

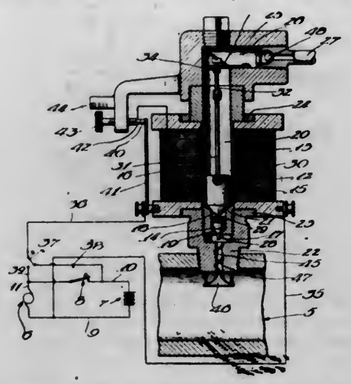


1. A device of the class described, comprising a water proof case having a tubular neck formed at one end thereof, said case being divided into compartments to respectively receive cigarettes and matches, said compartments being so disposed with respect to said neck as to permit one match and a cigarette to be simultaneously dispensed therefrom when the case is shaken and a water proof cap for said neck portion.

1,451,434. PRIMING DEVICE FOR INTERNAL-COMBUSTION ENGINES. DANIEL ROESCH, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,651. 9 Claims. (Cl. 123—187.5.)

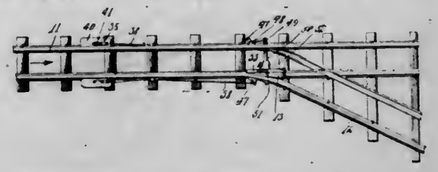
1. An automatic cut-out device for the purpose specified, comprising in combination a solenoid having a central longitudinally extending passage with a valve seat at its lower end, a fuel delivery connection at the upper end of said passage, a fuel discharge connection at the lower end of said passage and below said valve seat, a vertically movable valve working against said valve seat, an armature working in said passage and connected to said valve, and adapted to be raised to raise the valve when the solenoid is energized, a check valve between the aforesaid passage and the fuel delivery connection to prevent backward movement of fuel from the passage into the fuel delivery connection, means for limiting the opening movement of the valve under the influence of the solenoid,

and temperature actuated means for adjusting said limiting means according to the temperature of the device, whereby when the device is cold the valve may open fully,



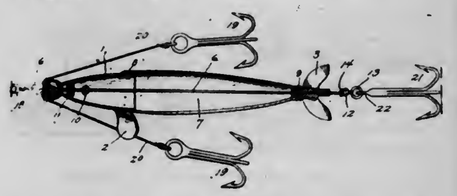
and whereby as the device becomes warmer the opening of the valve is limited more and more to thereby reduce the priming effect as the device becomes warmer, substantially as described.

1,451,435. RAILWAY SWITCH. CLIFFORD WILLS, Salt Lick, Ky. Filed Sept. 25, 1922. Serial No. 590,463. 5 Claims. (Cl. 246—323.)



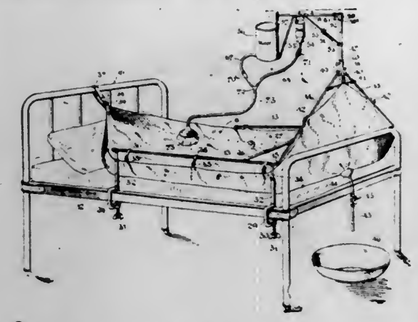
1. In combination with a railway switch including a crank, a link connected to said crank, a bell crank pivoted to said switch, one arm of which is connected to said link, a second link running substantially parallel to said track and connected at one end to the other arm of said bell crank, a cam bell crank pivoted to said track, one arm being connected to the other end of the second named link, and means adapted to strike said cam bell crank to operate the point.

1,451,436. ARTIFICIAL MINNOW. FRANK I. BARNIA, Merrill, Wis., assignor of one-half to Mathilde Barnia, Merrill, Wis. Filed Mar. 6, 1922. Serial No. 541,577. 2 Claims. (Cl. 43—47.)



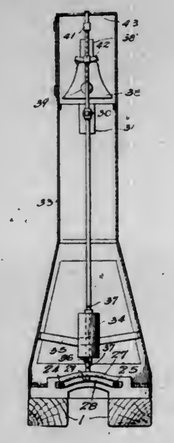
1. An artificial minnow, having a head piece and a tail piece of unyielding material, the head piece being hollow and provided with a perforation and with gill fins oppositely curved in propeller fashion and the tail piece having a perforation, a center wire engaging the perforations of the head and tail pieces, and a body of yieldable material connecting the head piece and the tail piece and surrounding said wire.

1,451,437. BED BATHING APPARATUS. LEAH E. BERNIER, Kelso, Wash. Filed Jan. 6, 1922. Serial No. 527,391. 12 Claims. (Cl. 4—27.)



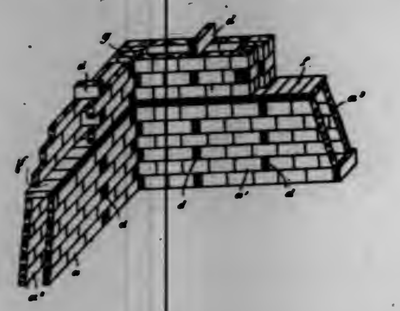
1. A bathing apparatus of the character described, comprising a sheet of water proof material and adapted to cover a bed, a pair of side frame members adapted to be detachably connected to the side frame members of the bed, means whereby the associated edges of the sheet may be connected with said side frame members, a pair of frame members extending between the rear ends of said side frame members and the last named frame members extending upwardly, means whereby the rear end of the sheet may be connected with the said upwardly extending members to hold the rear end portion of the sheet in an elevated position, and means whereby the forward end of the sheet may be connected with the head of the bed whereby the forward portion of the sheet may be held in an elevated position and thereby forming a container or receptacle in which a person may be bathed.

1,451,438. RAILROAD SIGNAL. STEPHEN M. DONALDSON, Meggett, S. C. Filed Jan. 29, 1923. Serial No. 615,703. 7 Claims. (Cl. 246—294.)



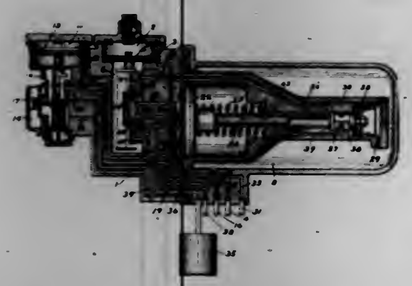
2. The combination with an oscillatable signal arm, of, a pivoted lever normally out of operative position with relation to the free end of said arm, a draw rod connected to said lever and means for retaining said rod in normal position, a vehicle actuated tripping dog operatively connected to the draw rod, and means for guiding said lever into position for contact with the free end of said signal arm upon a working stroke of said tripping dog.

1,451,439. HOLLOW WALL. FRITZ ECKERT, Wetzlar, Germany. Filed Sept. 8, 1921. Serial No. 498,533. 1 Claim. (Cl. 72—102.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A hollow wall of standard bricks wherein there are interposed in the courses formed of stretchers separate bonding bricks in such a manner that the vertical course is interrupted repeatedly and the vertical shaft is shut off at these parts and several complete courses of headers laid flat dividing the whole of the hollow space into horizontal passages.

1,451,440. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1922. Serial No. 546,523. 8 Claims. (Cl. 303—40.)

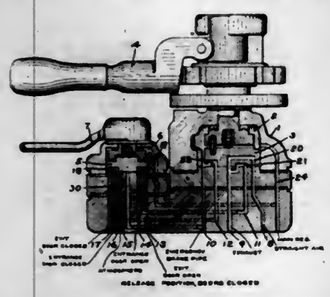


1. In a fluid pressure brake, the combination with a brake pipe, an application cylinder, a pressure chamber, a piston chamber, and an equalizing valve device operated upon a reduction in brake pipe pressure for supplying fluid under pressure from the pressure chamber to the application cylinder and to said piston chamber, of a piston in said piston chamber movable by fluid pressure supplied to said piston chamber.

1,451,441. CAR-DOOR-CONTROL DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1922. Serial No. 546,524. 7 Claims. (Cl. 313—6.)

1. In combination, a manually operated device for controlling a plurality of car doors and a door selector device for determining which car door shall be operated by the movement of the manually operated device.

7. The combination with a brake valve device having ports for supplying fluid under pressure for opening and closing two car doors, of a selector valve device having a position in which communication is opened for controlling both doors by manipulation of the brake valve device, and other positions in which the selector valve device supplies fluid under pressure for holding one car door closed while establishing communication through which the other door is controlled by said brake valve device.

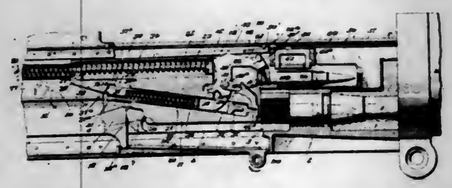


1,451,442. BAND CUTTER AND FEEDER. JOSEPH B. FIRESTONE, Roanoke, La. Filed Apr. 18, 1922. Serial No. 555,162. 2 Claims. (Cl. 130—1.)



1. In a band cutter and feeder for threshing machines, the combination of a supporting frame provided with arcuate slots in its sides, a conveyor mounted above said frame, a cutter mounted in the frame concentric with said slots, a retarder shaft playing in said slots, supporting arms mounted upon the axis of the cutter for swinging movement and having the retarder shaft mounted in their free ends, a retarder fitted upon said retarder shaft, arcuate rods rising from the retarder shaft and playing through abutments on the frame, and springs coiled around said rods between the retarder shaft and said abutments.

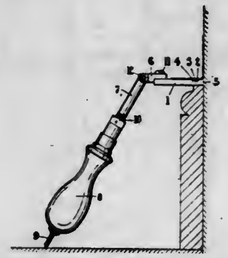
1,451,443. MACHINE GUN. ELBERT FOWLER, Baltimore, Md. Filed Dec. 4, 1918, Serial No. 265,239. Renewed Dec. 21, 1922. 21 Claims. (Cl. 89—3.)



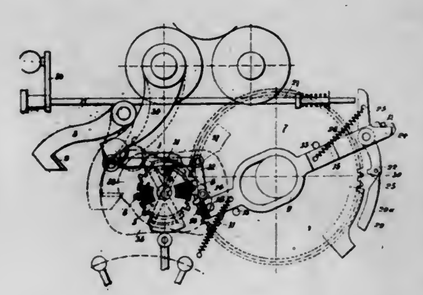
1. In a machine gun or the like, a combined firing-pin cocking-member, cartridge-extractor and shell ejector.

1,451,444. PAPER-HANGER'S TOOL. WILLIAM BOOTH LUPTON, Windermere, England. Filed May 20, 1922. Serial No. 562,466. 8 Claims. (Cl. 164—78.)

1. A trimmer for paperhangers' use comprising a flat plate of relatively narrow width in proportion to its length, a plurality of longitudinally arranged grooves in parallel relation to one of the edges of the plate and to each other, said grooves being each located at a predetermined distance from one of the edges of the plate, and a handle mounted on said plate and adjustable in relation thereto.

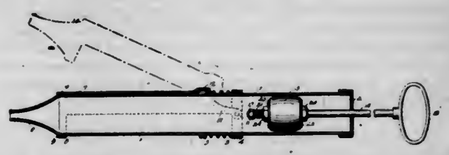


1,451,445. CUTTING DEVICE FOR COPYING MACHINES. FREDERIC MAY, Vienna, Austria. Filed Dec. 29, 1922. Serial No. 609,775. 8 Claims. (Cl. 164—68.)



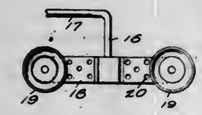
1. In a machine of the class described, a rotary knife, a second knife cooperating therewith, an interrupted gear carried by the rotary knife, a constantly rotary gear positioned for engagement with the interrupted gear, means operable by the continuously rotating gear for starting and stopping the interrupted gear at predetermined intervals, and other means for regulating the length of said intervals.

1,451,446. GREASE GUN. JAMES MARSHALL MILLS, Helena, Mont. Filed June 8, 1920. Serial No. 387,356. 6 Claims. (Cl. 221—78.)



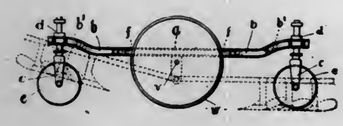
1. A grease gun including a barrel, a removable nozzle receiving one end of the barrel, movable and fixed parts carried by the barrel, the movable part being hingedly connected to the nozzle, and a spring around the barrel between said movable and fixed parts.

1,451,447. WASHING MACHINE. OTTO NELSON, Crystal Falls, Mich. Filed Nov. 5, 1919. Serial No. 335,875. 3 Claims. (Cl. 259—101.)



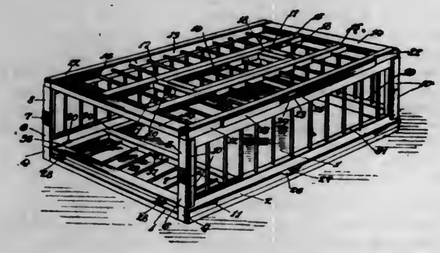
1. In a washing machine, a tub, a vertical shaft in the tub, means for imparting an oscillatory movement to the shaft, a perforated paddle at the inner end of the shaft, and opposed cups at each end of the paddle.

1,451,448. MOTOR TRACTOR. ERNEST RICHARD PELLING, Croydon, and VICTOR ALEXANDER MATTICK, Beckenham, England. Filed Sept. 2, 1921. Serial No. 498,023. 1 Claim. (Cl. 180—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



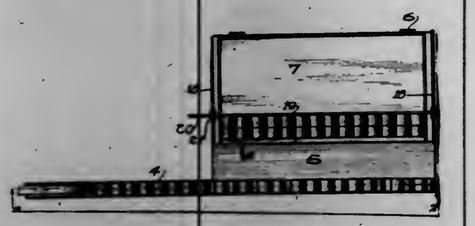
In a motor tractor, a main frame supported by two driving wheels and adapted to carry the power unit and the transmission gear between said power unit and said driving wheels; and two secondary self-contained rigid frames adapted to be detachably mounted on the ends of the main frame on the same side thereof and each carrying a steering wheel, each of said secondary frames comprising a beam and a stay and the width of one of said secondary frames being such that it can be attached to the main frame to locate the steering wheel carried by it either at one side of the main frame or centrally in relation to said frame.

1,451,449. COLLAPSIBLE CRATE. CHARLES L. PETERMAN, York, Pa. Filed Sept. 10, 1921. Serial No. 499,600. 3 Claims. (Cl. 217—47.)



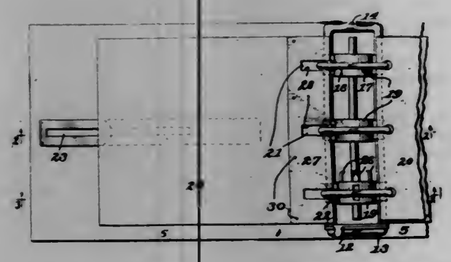
1. A crate comprising a bottom, end frames and side frames hinged to the bottom to swing over onto the same, a top, and toggle connections between the top and the bottom, said toggle connections constituting stops to limit the opening movement of the side and end frames.

1,451,450. CAN-FEEDING DEVICE. OTTO SMITH, Honolulu, Hawaii, assignor to California Packing Corporation, San Francisco, Calif., a Corporation of New York. Filed June 6, 1922. Serial No. 566,386. 7 Claims. (Cl. 198—45.)



1. A device of the character described comprising an elevated support adapted to receive trays loaded with cans, an inclined plate leading from the support, and a trough running parallel with said inclined plate and downwardly inclined to permit cans to roll and discharge by gravity through the same, and said trough having a width equal to the height of the can.

1,451,451. LOOSE-LEAF BOOK. RALPH G. WHITLOCK, Los Angeles, Calif., assignor to E. D. Whitlock and M. H. Whitlock, both of Los Angeles, Calif. Filed June 21, 1920. Serial No. 390,672. 3 Claims. (Cl. 129—24.)

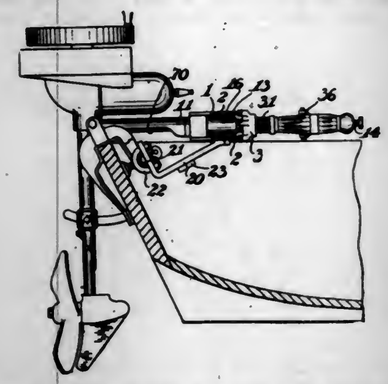


2. In a loose leaf book, means to guide the inner edges of the leaves comprising a plate adapted to be threaded upon the leaf rings, and means to tension said plate, whereby when the book is opened or closed the leaves are prevented from sticking on the rings.

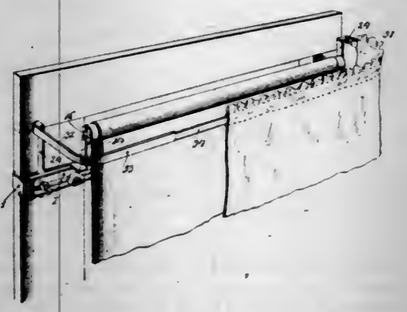
3. In a loose leaf book having a ring frame, said frame having ring frame plates, an arch band having prongs struck therefrom and turned inwardly, said arch band being secured to a ring frame plate, thereby forming means to retain a pencil.

1,451,452. TILLER LOCK. HANNAH TOTTEN WILLIAMS, Seattle, Wash. Filed Nov. 22, 1920, Serial No. 425,728. Renewed Feb. 16, 1923. 8 Claims. (Cl. 115—18.)

8. The combination with the tiller arm of an outboard motor of a rod reciprocable lengthwise thereof to reverse said motor, a handle including an outer sleeve rotatable upon said tiller arm, and having angular slots therein, a pin secured in said rod and receivable in said angular slots, an inner sleeve forming a part of the tiller arm within said outer sleeve and having longitudinal slots therein positioned to receive said pin, means permitting relative rotative movement and preventing relative longitudinal movement between said inner and outer sleeves, and means for locking said tiller in any steering position operable in either rotated position of its handle.



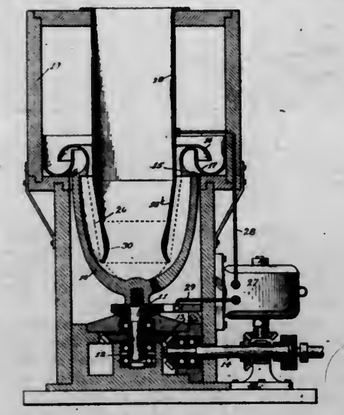
1,451,453. ADJUSTABLE WINDOW SHADE AND CURTAIN SUPPORT. WILLIAM X. YORK, Clinton, Ind. Filed Aug. 24, 1921. Serial No. 494,880. 5 Claims. (Cl. 156—24.)



5. In a device of the class described adapted to be secured to a window frame, members assembled for relative sliding adjustment and provided with arms adapted to engage opposed faces on the window frame, a space being formed between the frame and the members, springs in said space connecting said arms, the said members being provided with registering longitudinal slots, brackets each having an attaching portion disposed against one of the said members and provided with upper and lower end portions engaging the upper and lower sides of the said member, a clamping bolt assembled with the bracket and extending through the slots, and a nut threaded upon the bolt and adapted to be tightened to secure the members in positions of relative adjustment and to secure the bracket at adjustment relative to the said members, said brackets having upward extensions adapted to support shade roller and curtain pole.

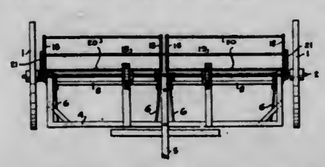
1,451,454. PROCESS AND APPARATUS FOR RECOVERY OF PRECIOUS METALS. FREDERICK A. BEAUCHAMP, Berkeley, Calif. Filed Aug. 4, 1920. Serial No. 401,166. 2 Claims. (Cl. 83—67.)

1. A machine for the recovery of precious metals by amalgamation with mercury, comprising a centrifugal bowl so shaped as to confine a layer of fluid mercury around its walls at an angle to the horizontal, a feed spout for the pulp extending downwardly into the bowl



and sealed at its lower end by the mercury, the lower portion of said feed spout being formed of insulating material.

1,451,455. WEED PULLER. ALBERT JOHN BEINGESSNER, Calgary, Alberta, Canada, assignor of one-third to Albert Beingessner and one-third to Alfred E. Allen, both of Calgary, Alberta, Canada. Filed Mar. 22, 1922. Serial No. 545,797. 2 Claims. (Cl. 55—60.)



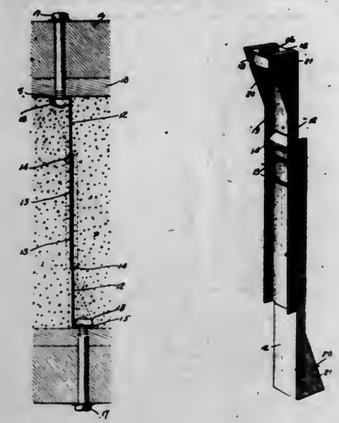
1. In a weed puller, in combination with a carriage and a frame mounted thereon, a puller bar mounted in the lower end of hangers pivoted in brackets upon the said frame, depth control rods pivoted to the said hangers and adapted to raise or lower the position of the pulling bar, a setting lever and quadrant controlling the movement of the said depth control rods, and a rotary pressure member adapted to engage the tops of the weeds and press them upon the surface of the ground, all substantially as described.

1,451,456. NONSLIP QUARTZ TILE. MACDONALD C. BOOZE, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1920. Serial No. 423,456. 5 Claims. (Cl. 106—25.)

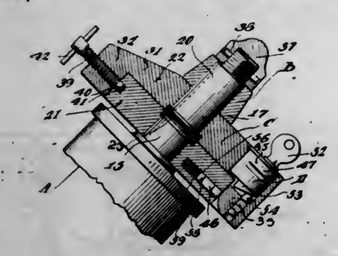
1. A non-slip tile comprising abrasive quarts granules and a ceramic bond uniting said grains into an integral, wear-resisting mass in which the grains form the major portion of the tread surface, said bond being more wearable than the quarts and capable of permitting renewal of the tread anti-slipping characteristics under a normal usage.

1,451,457. ADJUSTABLE FORM TIE AND SPACER. JOHN C. BUCHENAU, De Witt, N. Y. Filed Sept. 23, 1921. Serial No. 502,746. 6 Claims. (Cl. 25—131.)

6. In a tie and spacer for wall molds, a member presenting laterally extending flanges, said flanges being wider at one end and turned laterally inward to form a reinforced socket adapted to receive a nut, and at the other end terminating short of the end of the member whereby a bendable tongue is presented; together with bolts for securing said member to a mold board.



1,451,458. TILTING AND LOCKING DEVICE FOR STEERING WHEELS. ROBERT S. BUSBY, Jacksonville, Fla., assignor of one-half to A. D. Richardson and R. O. Birchy, both of Jacksonville, Fla. Filed Jan. 13, 1921. Serial No. 436,991. 6 Claims. (Cl. 74—83.)

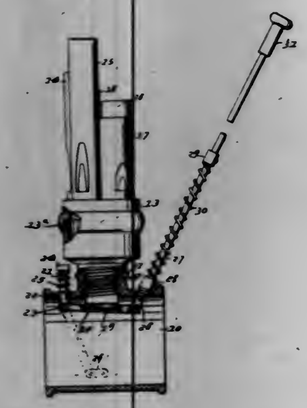


1. In a steering device, the combination with a steering post and a steering wheel, a shell for rotatably receiving said post, spark and throttle levers rotatably carried by the shell, and quadrants for said levers, of an attachment interposed between the steering wheel and post, including a pair of plates adapted for connection respectively with the steering post and the steering wheel, means hingedly connecting the plates together adjacent to one end and above said quadrants, whereby the plates can be swung in relation to each other and the wheel in relation to the post and in engagement with the quadrant, the wheel when swung in engagement with the quadrant, lying in the path of the levers whereby actuation thereof is prevented, and locking means carried by the plates for holding said plates against movement when the plates are swung in relation to each other.

1,451,459. WHISTLE. JACOB JACKSON CORNELL, Paducah, Ky. Filed May 23, 1922. Serial No. 563,041. 5 Claims. (Cl. 116—138.)

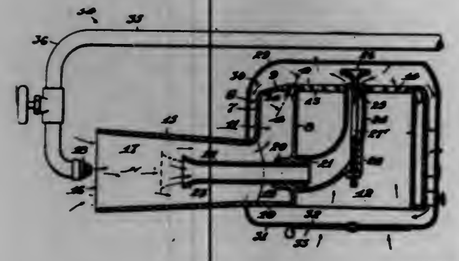
4. In an exhaust whistle, a coupling, a horn body having a nipple extending through the coupling, a valve coacting with the end of the nipple to open and close

the same, a yieldable post on which the valve is oscillatably mounted, means for oscillating the valve, a link pivotally connected to the valve, a rod to which the



link is pivoted, a guide carried by the coupling in which the rod is slidable, and means for forcing the rod outwardly.

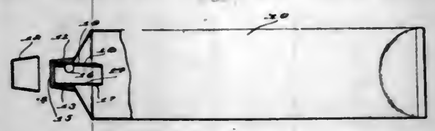
1,451,460. OIL BURNER. WALTER B. KERRICK, Los Angeles, Calif., assignor to Kerrick Steam Motors Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 26, 1921. Serial No. 455,930. 10 Claims. (Cl. 158—65.)



5. In a burner, a burner body having a plurality of burner orifices and formed with an opening disposed in the center of said body, a tube communicating with said orifices adapted to conduct a mixture of vaporized fuel and air to said orifices and formed with a mouth communicating with the atmosphere, another tube disposed within said first named tube formed with a mouth communicating with the interior of the first named tube and terminating at its other end in an orifice disposed centrally in said opening, and a nozzle adapted to eject fuel into the mouth of said first named tube.

1,451,461. COLLAPSIBLE TUBE. CLIFFORD G. KING, Providence, R. I. Filed Mar. 14, 1921. Serial No. 452,858. 11 Claims. (Cl. 221—60.)

1. A collapsible tube, comprising a nozzle, and a longitudinally-slidable cap located in said nozzle, said cap having a side delivery-opening and a flanged head, said head being closely adjacent to, or abutting, the outer end of said nozzle when said cap is in closed position, said cap

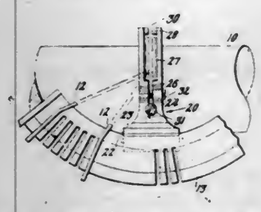


being provided with means for maintaining itself in closed position and with means for limiting its outward movement.

1,451,462. NONSLIP TILE. ABRAHAM ALBERT KLEIN and MILTON F. BEECHER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1920. Serial No. 423,423. 8 Claims. (Cl. 106—7.5.)

1. A non-slip tile comprising wear-resisting abrasive granular material of a hardness between quartz and crystalline alumina and a ceramic bonding material integrally united by heat into an abrasive, wear-resisting and substantially integral mass in which the granular material constitutes a substantial proportion of the surface of the tile and the bond is capable of permitting renewal of the safety characteristics of the tread surface.

1,451,463. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 21, 1921. Serial No. 463,266. 2 Claims. (Cl. 197—43.)

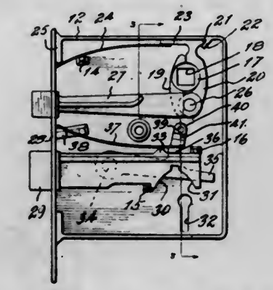


1. In a front-strike typewriting machine, a platen, a segment, type-bars pivoted on the segment to swing upward and rearward to the platen, type-blocks fixed to the type-bars near the ends of the latter, guiding extensions on the ends of the type-bars, a pair of uprights between which the type-blocks are adapted to pass on movement to the platen, guide-pieces offset toward each other, one on each upright beyond the type-blocks, for co-operation with said extensions on the type-bars, and means, engaging the uprights below the path of the type-blocks, for adjusting the uprights toward and from each other to regulate the space between the guide-pieces thereon; said uprights being spaced apart a sufficiently greater distance than the width of the type-blocks to permit of such adjustment while nevertheless providing at all times free passageway therebetween for the type-blocks.

1,451,464. LOCK. STANLY LECZYCKI, Detroit, Mich. Filed May 12, 1921. Serial No. 468,811. 1 Claim. (Cl. 70—75.)

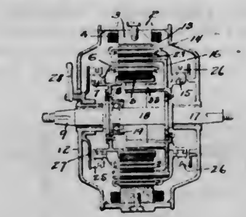
A lock comprising a casing, a bolt slidable in said casing, said bolt being adapted to be projected and retracted by a key, a stop lug on the upper edge of the bolt, a lever pivoted within the casing, a tongue projecting laterally from the upper edge of the lever in position to engage the lug, when the bolt is in projected or retracted position, a flat leaf spring normally urging the tongue against the upper edge of the bolt, said tongue being

elevated out of contact with the bolt by the bit of the bolt actuating key, and a key actuated member mounted above the tongue, and adapted to be turned into engage-



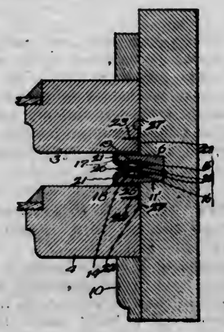
ment with the spring directly over the tongue to prevent said tongue from being moved out of the path of the stop lug.

1,451,465. POWER-TRANSMISSION APPARATUS. ALFONS H. NEULAND, San Francisco, Calif., assignor to Neuland Electrical Company, Inc., San Francisco, Calif., a Corporation of New York. Filed May 13, 1916. Serial No. 97,258. 18 Claims. (Cl. 172—239.)



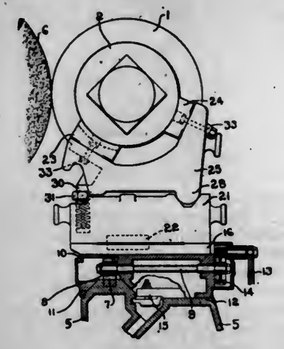
1. In an electric power transmission apparatus, a driving armature, a driven armature surrounding said driving armature, a stationary field element surrounding said driven armature arranged to produce a flux traversing both of said armatures and means for varying the flux traversing said driving armature with respect to the flux traversing said driven armature.

1,451,466. WEATHER STRIP. GUNNAR F. NORDBLAD, Chicago, Ill., assignor to Robert M. Burns, Chicago, Ill. Filed Aug. 28, 1916. Serial No. 117,141. 5 Claims. (Cl. 20—69.)



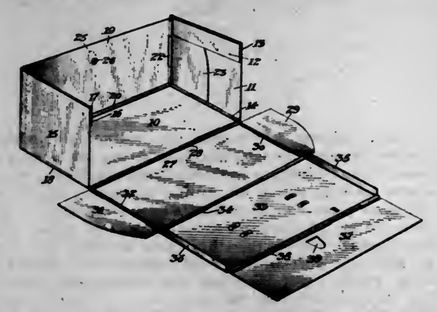
5. In combination with upper and lower window sashes, a joint closure comprising a parting strip having a longitudinal groove therein, and a weather strip transversely bent to provide a pair of channels with a dividing wall therebetween, the channel-forming portions of said strip being disposed in said groove, and U-shaped strips having respectively laterally extending flanges attached to the side edges of said sashes, with one leg of each U-shaped strip engaging the face of its respective sash, and the second leg slidably engaging in its respective channel.

1,451,467. WORK SUPPORT FOR ROLL-GRINDING MACHINES. CHARLES H. NORTON and ALBERT TURNER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 11, 1921. Serial No. 444,205. 10 Claims. (Cl. 51—236.)



1. A journal rest for a roll grinding machine comprising a base, a work shoe holder mounted thereon, work supporting shoes on said holder, and means for moving the holder and shoes vertically to bring the roll axis into proper relation with a grinding wheel.

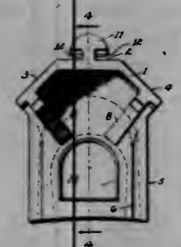
1,451,468. LUNCH BOX. HARRY OLSHAN, Newark, N. J., assignor to Goldee Mfg. Co., Inc., Brooklyn, N. Y. Filed Feb. 24, 1921. Serial No. 447,402. 6 Claims. (Cl. 220—6.)



6. A container comprising a base, end walls hinged to the opposite ends of the base, a front wall hinged to one side of the said base, flaps hinged to the ends of the front wall and adapted to be engaged in pockets provided therefor in the said end walls, a rear wall hinged to the opposite side of the said base, flaps hinged to the ends of the said rear wall and also adapted to be engaged in pockets provided therefor in the said end walls, a top member hinged to the said rear wall and adapted to close the said container so that the wall may be thus turned on the hinges to a set up position and may also be turned to a collapsed position, a flap hinged to the

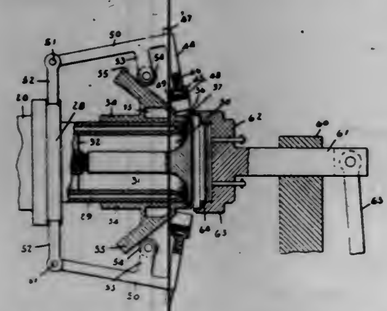
said top wall, and a latch associated with the front wall and adapted to engage the last aforesaid flap when the walls are in a set up position and also when the walls are in a collapsed position so as to secure the walls in place when in either positions.

1,451,469. HEEL-BLANK SEPARATOR AND FORMER. DENNIS PARKS, St. Louis, Mo. Filed Mar. 26, 1921. Serial No. 455,807. 6 Claims. (Cl. 12—50.)



1. A separating device for use with decked heel-blanks, comprising a separator plate having heel-forming members projecting at one end from one side thereof, and a guide member on the top of said device.

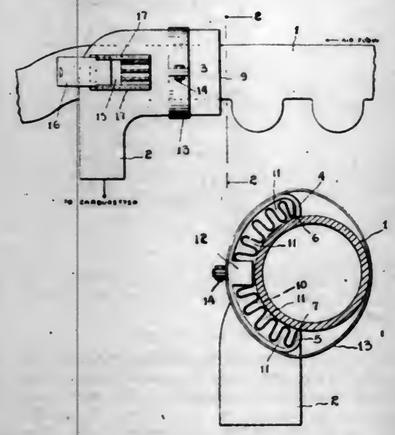
1,451,470. MEANS FOR FORMING AND SECURING GASKETS TO JAR COVERS. WILLIS J. PEELLE, Chicago, Ill. Filed Oct. 18, 1920. Serial No. 417,825. 14 Claims. (Cl. 113—80.)



1. In a machine for forming and applying sealing gaskets and the like, the combination of means for forming a gasket ring including a cylindrical longitudinally reciprocable shearing means for cutting the gasket ring from a mass of gasket material, and means for holding a jar cover and the like in position for the severed gasket ring to be forcibly applied thereto by said shearing means in the shearing movement thereof, whereby the shearing means shears the gasket ring and immediately applies it to the jar cover and the like.

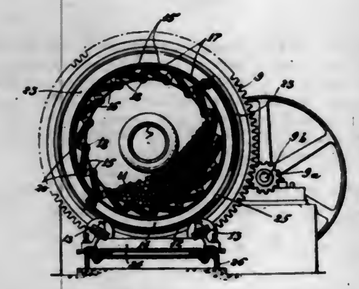
1,451,471. AIR HEATER. FRANK POKORNY, Jr., New York, N. Y., assignor of one-half to Francis W. Keegan, New York, N. Y. Filed Aug. 14, 1920. Serial No. 403,629. 1 Claim. (Cl. 257—241.)

Preheating means for the air supply to carburetors of internal combustion engines comprising, in combination, an elbow device having a transversely curved portion with oppositely inturned edges and an intermediate, inturned spacing lug adapted to set against the exhaust manifold of an engine to provide an air passage between said portion and manifold, an angularly disposed tubular portion to connect with the carburetor, the forward end of the curved portion being open to admit air for passage through the tubular portion, a corrugated sheet of heat conductive material fitting between the



curved portion and the manifold to provide a series of parallel channels for the sub-division of the flowing air into separate streams, and a controllable opening in the curved portion to vary the temperature therein.

1,451,472. PULVERIZING MILL. RALPH E. H. POMEROY, Canton, Ohio. Filed June 1, 1921. Serial No. 474,079. 12 Claims. (Cl. 83—9.)

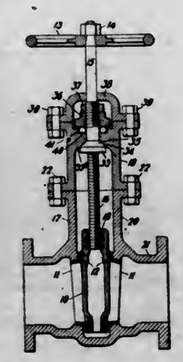


1. In a pulverizing apparatus, the combination of a rotatable shell having perforations in its periphery and having therein loose tumbling devices for assisting in grinding the material, means for supplying a current of air inward through said perforations, and adjustable means for shifting said air supply relative to the shell so as to be admitted to different portions of the shell.

1,451,473. VALVE. WILLIAM E. PULVERMAN, Wilkes-Barre, Pa. Filed Dec. 20, 1919. Serial No. 346,360. 6 Claims. (Cl. 251—62.)

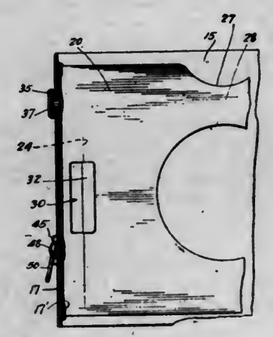
1. The combination of a casing having a seat, a gate valve fitted thereto, said casing comprising a bonnet into which said gate valve rises, a rotary stem in said bonnet having at its lower end a screw connection with said valve, said bonnet provided with an integral interior flange and said stem having below said flange an integral shoulder to fit said flange, a binding nut screw-threaded upon said stem and a bearing upon said bonnet on

which the nut unyieldingly rests for forcing the shoulder up against the flange to form a leak-proof joint and pre-



vent any endwise movement of the stem, said bonnet formed in upper and lower sections, and means for detachably joining said sections.

1,451,474. ALBUM. JOHN RODGERS, Jamaica, N. Y. Filed Apr. 8, 1921. Serial No. 459,537. 8 Claims. (Cl. 129—20.)

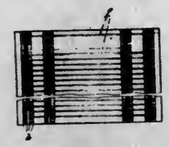


3. In an album, a plurality of pairs of envelope leaves each pair formed from a single blank, said envelope leaves having recesses on their upper edges and openings through the sides thereof, tabs extending from opposed sides adapted to be secured on opposite edges after folding the blank, other tabs adapted to pass through openings in the opposite sides and be secured thereto, and means for clamping said leaves within a cover.

4. An album comprising covers, a backing and envelope leaves disposed between said covers, a stiffener extending coincident with said backing, means formed with said stiffener for securing said leaves, means for removably engaging said stiffener to said backing, and means combined with said engaging means for distinguishing the album.

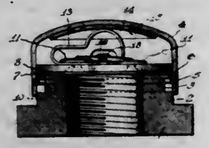
1,451,475. DEVICE FOR PRINTING INTERSECTING LINES. JAMES ROSENBERG, Cleveland, Ohio. Filed Aug. 23, 1920. Serial No. 405,406. 10 Claims. (Cl. 101—400.)

1. In mechanism for printing intersecting lines, the combination of a gauge element provided with a plurality of recesses extending transversely along one side, and a longitudinally extending recess along its upper face and said gauge being adapted to receive a line printing



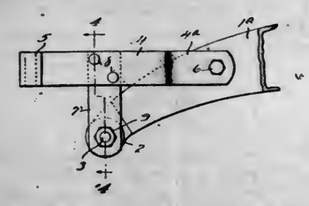
type element on its upper surface, and a line-printing type bar adapted to engage in one of such recesses in said gauge element.

1,451,476. PUSH-BUTTON CONSTRUCTION. ROBERT E. SCHIEBER, Detroit, Mich. Filed Jan. 16, 1922. Serial No. 529,430. 3 Claims. (Cl. 200—159.)



1. In a push button construction wherein a nut is provided with a cap or finger piece adapted to be depressed to effect an electrical connection between a stationary contact member, and a movable contact member, which movable member holds said cap normally distended relative to said nut, and a leading in conductor;—means articulating said nut and cap to prevent displacement of the latter and permit said cap to rotate relative to said nut, said means including a split ring, said cap having a groove in its inner wall to receive said ring and said nut having a groove to receive said ring, the nut groove being of sufficient width to permit said ring to shift therein during depression of said cap, and said cap having a side opening to rivet said leading in conductor so that said conductor by virtue of said rotatable cap may be conveniently placed.

1,451,477. AUTOMOBILE BUMPER. BLADEN M. SHORT, Detroit, Mich., assignor to Christian Girl, Kalamazoo, Mich. Filed Jan. 7, 1922. Serial No. 527,562. 13 Claims. (Cl. 293—55.)



4. A bumper supporting member comprising an arm having its inner end offset laterally for attachment to a vehicle side member and having its front end formed for connection with a bumper, and a brace extending from the said arm and adapted for attachment to the spring bolt of such side member.

1,451,478. SAFETY PIN. AARON JACOB SMITH and FOSTER T. FREDERICK, Chicago, Ill.; said Smith assignor to said Frederick. Filed Aug. 30, 1922. Serial No. 585,138. 6 Claims. (Cl. 24—158.)

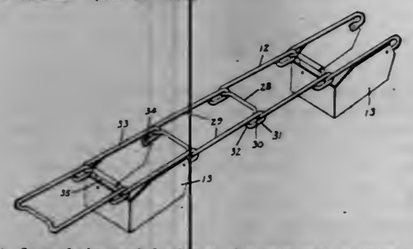
1. A safety pin comprising in combination a body member having parallel extending side portions with looped portions at each of its ends, one of said side portions terminating adjacent one of said looped portions and forming a point for said pin, a head secured to one of said looped portions and adapted to hold the free end of said body

portions in normal closed engagement, the said head having a limited sliding movement upon said body portion



and a spring locking member adapted to engage against the inner curved body portion whereby the head is held in locked position.

1,451,479. CHAIN SAND DREDGE. ROSELL SMITH, Lebanon, Ind. Filed Dec. 12, 1921. Serial No. 521,834. 4 Claims. (Cl. 37—85.)



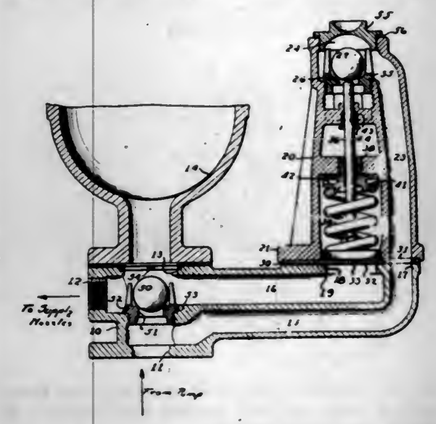
1. In a chain sand dredge, a chain formed of links comprising two parallel side portions connected by an end cross portion, hooks provided on the free ends of said side portions for engaging the next adjacent link, and projections on the ends of said hooks for maintaining said hooks in position to permit the sliding movement therein of said adjacent link and acting as stops for limiting the sliding movement thereof.

1,451,480. CALLING DEVICE. SAMUEL SUEKOFF, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 3, 1918. Serial No. 256,656. 2 Claims. (Cl. 188—104.)



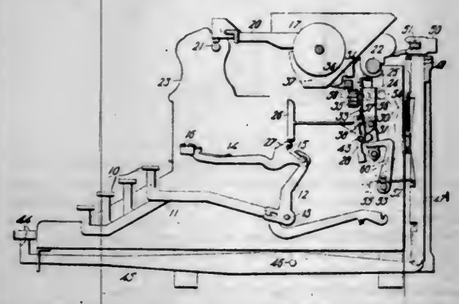
1. A device of the character described including spring-restored mechanism, a worm-gear mechanism, a rotatable shaft connected to said mechanism by said worm-gear mechanism, a rotatable cylindrical member comprising a core provided with securing means to secure the same to said rotatable shaft and a cylindrical ring of a size to fit over said core, a permanent magnet having soft iron pole-pieces secured to its ends by means of screws resting in countersunk openings in said pole-pieces and enlarged in relation with the thickness of said permanent magnet, said thickness of said pole-pieces at right angles to the axis of said cylindrical member being substantially the same as the diameter of said cylindrical member, concave faces for said pole-pieces forming an opening of a size to receive said cylindrical member, whereby the said member as a whole may be rotated in said opening by means of said spring-restored mechanism to cut the magnetic flux of said magnet to regulate the speed of operation of said spring-restored mechanism through the medium of said worm-gear mechanism.

1,451,481. PRESSURE REGULATOR. ELBERT S. VINCENT, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a Corporation of Ohio. Filed Nov. 29, 1920. Serial No. 426,992. 2 Claims. (Cl. 103—42.)



1. In a device of the character described, the combination with a lower casing having a laterally extending partition therein, passageways on opposite sides of the partition, a valve disposed in the partition between said passageways, one of said passageways being arranged to communicate with a supply conduit and the other with a pump conduit, each of said passageways terminating adjacent one end of the casing, a pressure relief valve carried by the casing adjacent the termini of said passageways, and an air chamber carried by the casing and communicating with the passageway leading to the supply conduit.

1,451,482. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 26, 1920. Serial No. 391,879. 10 Claims. (Cl. 197—176.)

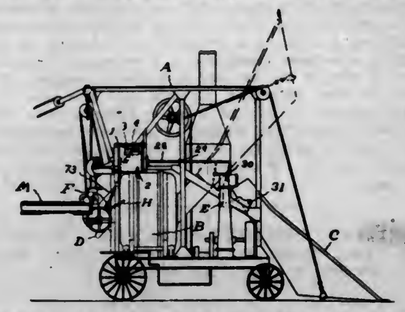


1. In a typewriting machine, the combination of a carriage, tabulating mechanism for said carriage, type-keys, escapement mechanism actuable by said type-keys, and means operable by said tabulating mechanism to actuate said escapement mechanism.

1,451,483. BATCH MIXER AND METER. HENRY O. WINKLER, Los Angeles, Calif., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Oct. 18, 1921. Serial No. 508,425. 33 Claims. (Cl. 83—73.)

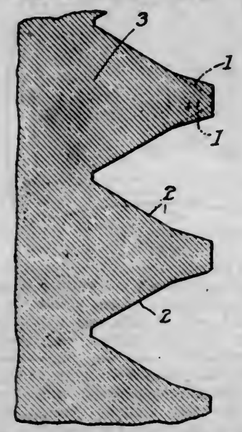
1. The combination with a mixing machine including a mixer and charging and discharging means associated

therewith, of timing means including an escapement mechanism, said timing means being controlled by the charging



ing means, and governing the discharging means, whereby materials charged into the mixer may be mixed a predetermined time before being discharged.

1,451,484. SCREW THREAD. IRVING C. WOODWARD, Syracuse, N. Y. Filed Mar. 25, 1922. Serial No. 546,653. 3 Claims. (Cl. 152—22.)

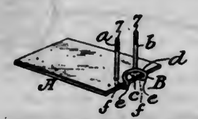


3. A member provided with a thread, the included angle of which is less near the apex of the thread than throughout the main body portion thereof.

1,451,485. COMPOSITION FOR FIREPROOFING AND OTHER PURPOSES AND PROCESS OF PREPARING SAME. WILLIAM LEVIS WOOTTON, Brooklyn, N. Y. Filed July 5, 1919. Serial No. 308,739. 11 Claims. Cl. 23—5.)

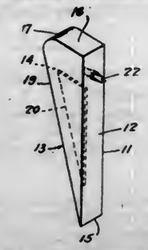
1. A composition consisting of a mixture containing calcium chloride and but two other salts, namely sodium chloride and calcium sulphate, substantially as described.

1,451,486. PIN TICKET. MARCUS O. ANTHONY, New York, N. Y. Filed July 7, 1921. Serial No. 482,895. 5 Claims. (Cl. 40—25.)



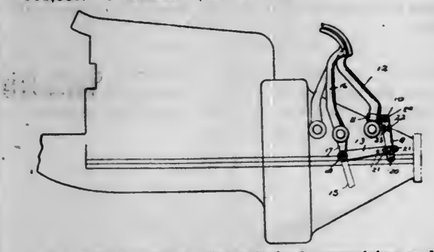
1. A pin ticket characterized by a pin provided on its opposite faces with bevels converging toward the extremity of said pin so as to impart a longitudinal taper to the end portion, said exeremity being provided with a rounded edge.

1,451,487. WINDOW OR DOOR STOP. FREDERICK ARMBROSTER, Averne, N. Y. Filed Apr. 13, 1921. Serial No. 460,939. 5 Claims. (Cl. 292—342.)



1. A window or door stop comprising in combination a wedge-shaped body, a wedge-shaped bearing member tightly fitted within said body, said bearing member being provided with a knife-edge pin made integral therewith and protruding outwardly from the bottom of said body, substantially as described.

1,451,488. FORD BRAKE-CLUTCH CONNECTOR. JAMES C. BOYLE, Flint, Mich. Filed Oct. 5, 1921. Serial No. 505,661. 4 Claims. (Cl. 74—81.)

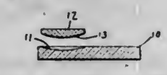


1. An attachment as characterized comprising a link pendant from the brake lever; means operatively connecting said link with the clutch lever of an automobile for moving the same to release the clutch during the movement of said brake lever and prior to the setting of the brakes thereby; and means mounted on said link for adjusting the working position thereof, said means embodying a set screw mounted on said link to bear against the pivot hub of said brake lever for varying the operating position of said link.

1,451,489. PROCESS FOR THE MANUFACTURE OF AZOXY, AZO, HYDRAZO, AND AMINO COMPOUNDS. OLIVER W. BROWN and CLYDE O. HENKE, Bloomington, Ind. Filed Sept. 21, 1921. Serial No. 502,245. 16 Claims. (Cl. 260—69.)

1. The process of producing azoxy, azo, hydrazo, and amio compounds, which consists in subjecting a nitro compound in the gaseous state and mixed with gas containing hydrogen to the action of a heated catalyst containing a finely divided metal having an atomic weight between that of thallium and that of bismuth inclusive, to form one or more of the desired azoxy, azo, hydrazo, and amino compounds.

1,451,490. PROCESS OF MAKING BIFOCAL LENSES. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Franklin Optical Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 8, 1922. Serial No. 550,843. 9 Claims. (Cl. 49—82.1.)



7. The process of producing a fine optical surface consisting of grinding and polishing said surface, heating the

same to a temperature sufficient to release or substantially release such surface strain as may exist therein, annealing said surface by the cooling thereof and thereafter repolishing the same.

1,451,491. PATTERN AND GUIDE STRIP. SEWARD H. CALKINS, Long Island City, N. Y., assignor to The Traitel Marble Company, Long Island City, N. Y., a Corporation of New York. Filed Aug. 31, 1920. Serial No. 407,094. 9 Claims. (Cl. 94—18.)



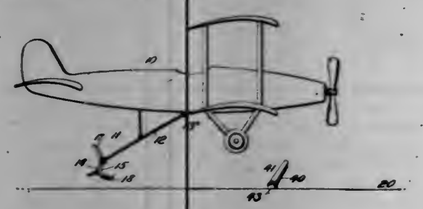
1. A pattern and guide strip of the character described comprising a flat strip of metal having upper and lower uninterrupted straight edges and a plurality of ears pressed out of said strip and positioned to extend on opposite sides thereof, substantially from the center of the strip.

1,451,492. VEHICLE SPRING. GEORGE C. CASPER, Chicago, Ill., assignor of one-half to Arthur N. Evans, Chicago, Ill. Filed Jan. 14, 1922. Serial No. 529,399. 3 Claims. (Cl. 267—50.)



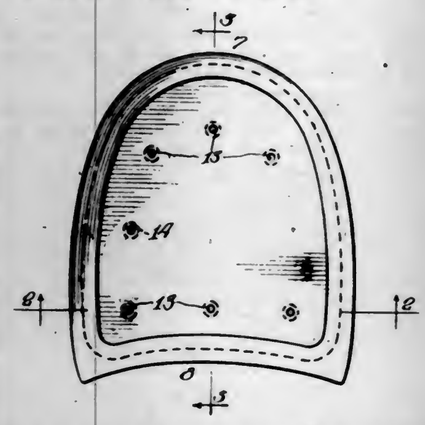
1. In a vehicle spring a plurality of superposed leaves of different lengths, the adjacent faces of the leaves being provided with mating grooves and connecting openings, consisting of longitudinal grooves extending outwardly and inwardly from the openings at the upper and lower faces of the leaves respectively and provided at intervals with transverse branches, the longitudinal grooves and branches in the upper faces of leaves mating with the grooves and branches in the lower faces of the contiguous leaves to form connecting channels when the leaves are in normal position and adapted to effect a wiping action of the lubricant when the leaves are deflected.

1,451,493. STOPPING AND LANDING MECHANISM FOR AEROPLANES, DIRIGIBLES, BALLOONS, AND THE LIKE. JAMES H. CRUICKSHANK, Big Indian, N. Y. Filed Nov. 26, 1921. Serial No. 517,929. 4 Claims. (Cl. 244—2.)



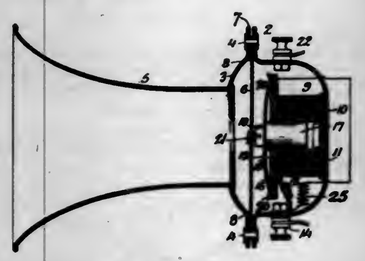
1. Mechanism of the character described, comprising a landing surface for an aeroplane or like machine, a turn-table mounted therein and means associated therewith to be engaged by a part connected with the aeroplane or the like while in motion for retarding and arresting the machine, said turn-table being rotatable to align the retarding means with the direction of motion of the machine, and said retarding and arresting means comprising a loop to be caught by said part on the machine, a member consisting of a cross-head having a series of pins or the like and a member consisting of a series of wires extending between said pins and held kinked thereby, one of said members being movable with said loop to effect the kinking of successive sections of said wires by said pins during the movement of said movable member for strongly retarding the motion of the same.

1,451,494. RESILIENT SHOE HEEL. EUGENE L. DE VERE, Chicago, Ill. Filed Mar. 6, 1920. Serial No. 363,884. 1 Claim. (Cl. 36—35.)



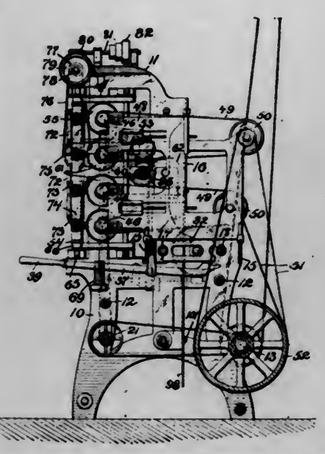
A heel comprising a block of resilient material having its upper face cored out to leave the sides and bottom relatively thin; a core of relatively rigid, light material having its rear and side edges rounded, tapering and sharply bent upwardly near its immediate edges and leaving its front edge in a horizontal plane and of uniform thickness, said core adapted to fit neatly within the cavity of the block, and a covering of impervious material on top of the core, and sealed to the edges of the block.

1,451,495. AUDIBLE-SIGNAL DEVICE. JOHN L. DINSMOOR, Philadelphia, Pa. Filed Aug. 7, 1917. Serial No. 184,832. 5 Claims. (Cl. 177—7.)



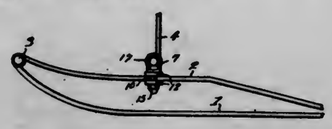
1. A signal device having a resilient current carrying sounding diaphragm, a solenoid having at one side an annular contact member in circuit therewith, a current carrying plunger revolubly mounted in the solenoid, adapted to be vibrated upon energization thereof and adapted for electrical connection with the diaphragm to control the solenoid circuit, and a spring connected with the plunger having shiftable connection with the annular contact member for normally holding the plunger pressed upon the diaphragm and operable to place said diaphragm under an initial flexure adapted to prolong electrical connection with the plunger when the solenoid is energized.

1,451,496. MACHINE FOR TURNING IRREGULAR FORMS. GEORGE W. DUCHEMIN, Newark, N. J. Filed June 4, 1921. Serial No. 474,967. 5 Claims. (Cl. 142—15.)



1. A machine for cutting forms comprising a carriage with means for supporting a series of cutters and for holding a tracing wheel, a frame having means for holding a series of blocks and a pattern, a set of opposed brackets at the front and a set of opposed brackets at the rear of the frame, said brackets being arranged to swing and adapted to form the only support for the frame so that in the movement of the frame the blocks are held always in the same plane relative to the cutters, and means for yieldingly pressing the frame toward the cutters.

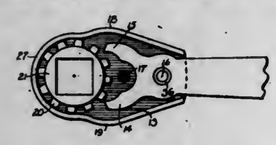
1,451,497. PIVOTAL CLAMPING DEVICE FOR BUMPERS AND THE LIKE. WAYNE E. DUNSTON, Kalamazoo, Mich., assignor to Christian Girl, Kalamazoo, Mich. Filed Dec. 16, 1922. Serial No. 607,276. 5 Claims. (Cl. 293—55.)



2. The combination, with a supporting member having an eye, of means for clamping and pivotally supporting a bar or plate from said eye, said means comprising a pair of eye bolts, a bolt extending through the eyes of said bolts and through the eye on said supporting member and pivotally connecting the eye bolts thereto, each eye bolt having a stem and a stop, clamping members mounted on the stems of said bolts on opposite sides of said bar or plate, and nuts on the threaded ends of said eye bolts.

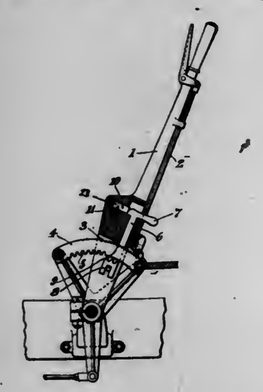
1,451,498. RATCHET WRENCH. GUSTAV A. FAITZ, Chicago, Ill. Filed Aug. 10, 1921. Serial No. 491,182. 2 Claims. (Cl. 81—62.)

1. In a ratchet wrench, in combination, a head comprising a pair of parallel plates having inwardly projecting spacing flanges at their peripheries, a sleeve journaled between the plates, ratchet teeth formed on the sleeve, a handle pivoted between the plates, a pair of oppositely facing pawls fixed to the handle and projecting



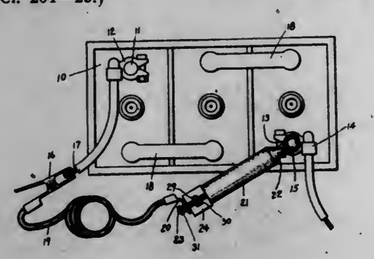
beyond the pivot of the handle to cooperate with the ratchet teeth, and springs mounted within the head reacting upon the handle for normally holding the handle in central position.

1,451,499. LOCKING DEVICE FOR AUTOMOBILES. JAMES H. FORD, Mount Vernon, N. Y. Filed May 6, 1921. Serial No. 467,458. 6 Claims. (Cl. 70—132.)



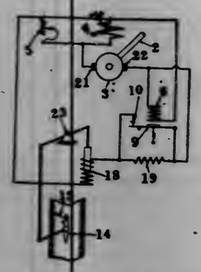
4. The combination with an operating lever of a motor car of a separate locking device mounted on the lever having locking means at its lower end adapted to engage with non-serrated means on the lower portion of the segment when the locking device is operated, and a spring actuated bolt adapted automatically to lock the locking device in locking position and adapted to be released by a key.

1,451,500. PROCESS AND MEANS FOR REMOVING CORRODED TERMINALS FROM STORAGE BATTERIES. GERHARD E. FROHBIETER, Princeton, Ind. Filed Sept. 11, 1922. Serial No. 587,377. 4 Claims. (Cl. 204—29.)



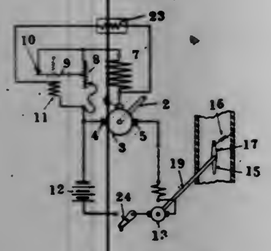
4. The combination of a corroded terminal, a source of electrical energy, an electrically energized arc forming device, and means connecting said device, said battery and said terminal in an electric circuit for the purpose described.

1,451,501. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor, by mesne assignments, to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed July 5, 1919. Serial No. 308,867. 3 Claims. (Cl. 290—40.)



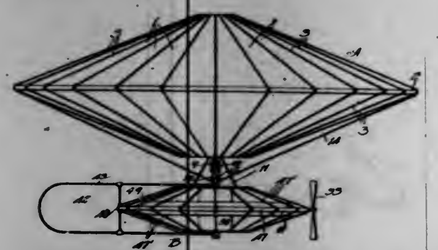
1. The combination of a prime mover, speed controlling means therefor, electromagnetic means for actuating the controller, a generator driven by the prime mover, a vibratory relay for automatically varying the current supplied to said electromagnetic means, said vibratory relay being responsive to the current output of the generator and operable when said current output passes a predetermined value.

1,451,502. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor, by mesne assignments, to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed July 5, 1919. Serial No. 308,868. 6 Claims. (Cl. 290—40.)



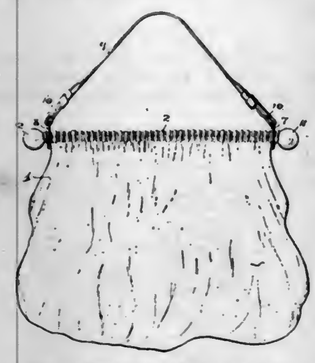
1. The combination of a dynamo electric machine, means for driving said machine, a storage battery connected to the dynamo electric machine to be charged thereby, and means for controlling the excitation of the dynamo to prevent permanent reversal of its polarity.

1,451,503. DIRIGIBLE AIRSHIP. HENRY A. GOETZ, Chicago, Ill. Filed May 14, 1917. Serial No. 168,399. 20 Claims. (Cl. 244—7.)



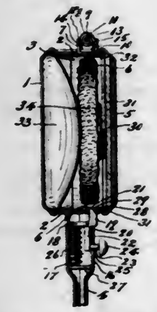
1. An airship comprising a plurality of balloon units held together by means of and within a rigid wedge shaped wire cage of double saucer form, said cage comprising uprights under compression and wires under tension.

1,451,504. COMBINED STIFFENING AND CLOSING DEVICE FOR BAGS. FREDERICK GOERTZ, Newark, N. J., assignor to August Goertz & Co., a Corporation of New Jersey. Filed Mar. 14, 1918. Serial No. 222,283. 3 Claims. (Cl. 150—5.)



1. A combined stiffening and closing device for bags, comprising a pair of closing members for attachment thereto of the mouth-portions of the bag, loop-shaped devices rigidly connected in fixed relation with one of said closing members and extending at right angles therefrom, a carrier-strap or handle secured at its ends to said loop-shaped devices, and retaining knobs connected with the other closing member adapted to enter said loop-shaped devices for separable retaining engagement therewith.

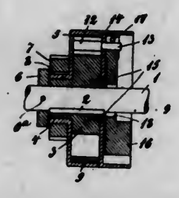
1,451,505. CONTAINER. FREDERICK GOERTZ, Newark, N. J., assignor to August Goertz & Co., a Corporation of New Jersey. Filed Dec. 2, 1920. Serial No. 427,758. 2 Claims. (Cl. 206—37.)



1. A container for the purposes described, comprising a main body open at one end, a cover for closing said main body, a spring hinge connected between said main body and cover adapted to actuate the opening movement of the latter, a mirror secured within said cover adapted to be disclosed when said cover is in open position, a handle member of substantial length projecting outwardly from the side of said main body and adapted to be grasped to support the container before the user, and a releasable catch means associated with said handle-member for holding said cover closed.

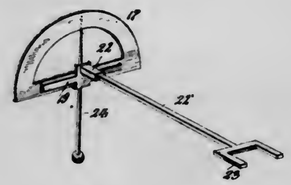
1,451,506. SELF-ACTING FRICTION CLUTCH. FREDRIK GRAF, Krokslatt, and JOHN WALDEMAR SVENSSON, Molndal, Sweden. Filed Nov. 10, 1920. Serial No. 423,133. 1 Claim. (Cl. 192—105.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

The combination with a driving shaft, of a clutch member comprising a split annulus having a radially disposed portion secured to said shaft, the walls of the split portion being provided with parallel channels having a common axis, a pin provided with a double cam operating between the opposite walls of the opening formed by the channels, a driven member surrounding said clutch member, and a pin operating element comprising a flat portion secured at one end to the pin and



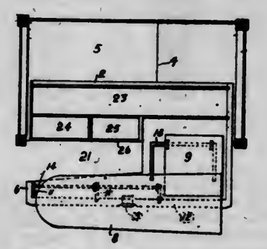
projecting to a point beyond the said shaft and receiving the latter through an arcuate opening therein, the free end of said element being provided with a weighted section adapted to cause the said element to lag behind the clutch member when the latter rotates at and beyond a predetermined speed to turn said pin and expand said annulus into engagement with the driven member.

1,451,507. GRAVITY ANGLE METER FOR DENTAL RADIOGRAPHY. LOY E. HARRIS and TROY A. LEACH, Emporia, Kans. Filed Mar. 3, 1922. Serial No. 540,799. 4 Claims. (Cl. 33—207.)



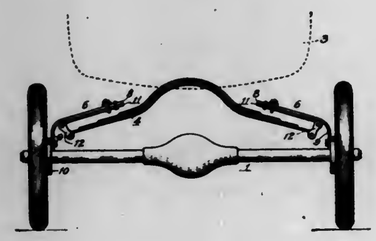
1. A device of the character described including a film carrier engageable between the teeth, and means carried by said carrier to automatically indicate the exact angle of disposition of the film.

1,451,508. COMBINED TABLE AND IRONING BOARD. CHARLES J. HENDERSON, Chicago, Ill. Filed Oct. 12, 1921. Serial No. 507,180. 6 Claims. (Cl. 68—10.)



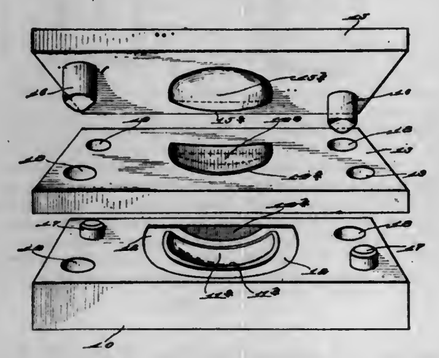
6. In combination, a drawer, means for slidably supporting the drawer, the drawer having a section at one side and a section of the bottom removed therefrom a short distance in rear of the front end so as to form at the front end of the drawer a comparatively narrow arm supported at its inner end and free at its outer end, and an ironing board associated with said drawer, and movable from a stored position within the drawer to a position overlying said arm.

1,451,509. SHOCK ABSORBER FOR AUTOMOBILES. HARRY DE F. HILLIARD, Chicago, Ill., assignor, by mesne assignments, to H-R Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 17, 1920. Serial No. 389,577. 6 Claims. (Cl. 267—45.)



1. In an automobile having a running gear and body supporting springs, a resilient element connecting the said running gear and an end of one of the springs, said resilient element comprising a pair of resilient members secured together at one end, the free end of one of said members being secured to the spring and the free end of the other being bent and rigidly secured to the said running gear, the last mentioned member acting as a shock absorber to check the recoil of the other member and the springs connected thereto.

1,451,510. MOLD FOR RUBBER HEELS. LEVI HOLMES, Raynham, Mass. Filed Aug. 23, 1921. Serial No. 494,594. 3 Claims. (Cl. 18—42.)



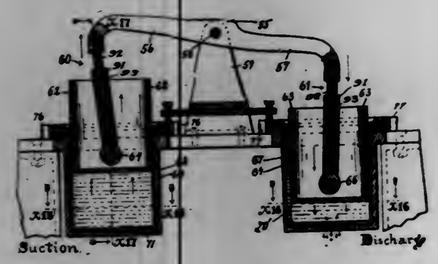
1. A three-part mold constructed and arranged for molding scoop-shaped rubber heels presenting abutting shoulders between each of the mold members at the front or breast portion of the heel cavity.

1,451,511. AEROPLANE RACE GAME. ALFRED E. JONES, Indian Orchard, Mass. Filed Aug. 26, 1920. Serial No. 406,246. 2 Claims. (Cl. 46—63.)



1. A game apparatus consisting of a game board arranged to represent geographical divisions and centers providing stopping points, certain of the centers being organized into flight courses, the distance between the centers of the each flight course being indicated in mileage figures, miniature aeroplanes for indicating the position of each player on the board, and means for producing plays of different values, whereby totals may be built up corresponding to the total mileage of any one flight course.

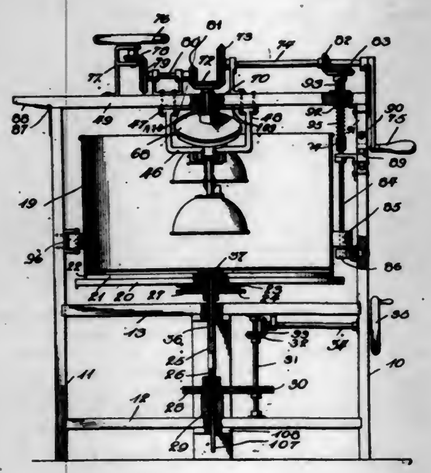
1,451,512. MEASURING APPARATUS. SYLVANUS H. KELLOGG, Los Angeles, Calif. Filed June 27, 1918. Serial No. 242,290. 32 Claims. (Cl. 226—95.)



1. The combination with two measuring devices, of a single conveyor adapted to intermittently move receptacles two by two simultaneously, beneath said devices alternately operable means to charge the receptacles while stationary between steps; and means connected with the charge-operating means to move the conveyor step by step during periods when the charges are not being received or delivered.

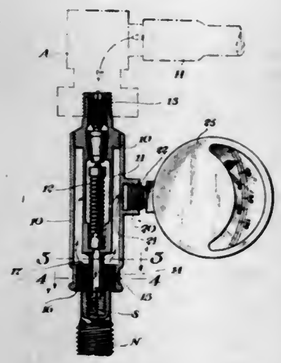
1,451,513. WASHING MACHINE. DANIEL F. LANE, Painted Post, N. Y. Filed Apr. 10, 1922. Serial No. 551,296. 7 Claims. (Cl. 68—19.)

2. A washing machine comprising, in combination, a frame, a vat revolubly mounted upon said frame, a cross bar hingedly secured to said frame, a suction cup mounted upon said cross bar, means mounted upon the bar to operate the said cup, means secured to the frame to



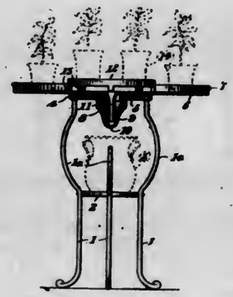
revolve said vat, means mounted upon the bar to operate said last named means, and readily removable connection for said last named means for causing revolution.

1,451,514. AIR-PRESSURE INDICATOR AND GAUGE. EDWARD C. MILLER, Williamsport, Pa. Filed Apr. 18, 1922. Serial No. 554,479. 2 Claims. (Cl. 152—11.5.)



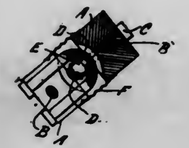
1. In a tire gauge, a casing having an inlet at one end and an outlet at the other, a tubular conduit extending through said casing from end to end thereof, a check valve in said conduit and opening toward the outlet end of the casing, a gasket loosely surrounding the conduit at the outlet end of the casing, and a pressure indicator having communication with the interior of said casing.

1,451,515. FLOWER STAND. ALOYSIUS NIEMCZEWSKI, Elmira, N. Y. Filed June 22, 1922. Serial No. 570,136. 6 Claims. (Cl. 47—22.)



1. In a flower stand of the type described, supporting legs, a table top rotatably carried thereby and having a centrally positioned depending drain pipe, and a platform carried by the stand for supporting a waste receptacle beneath the drain pipe.

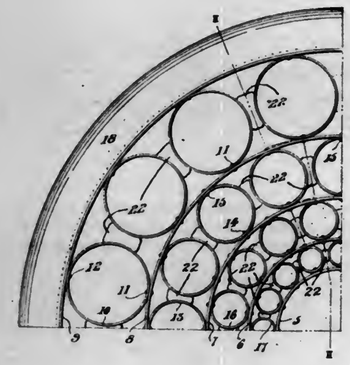
1,451,516. FLEXIBLE TRACK AND THE LIKE. OSCAR STYLES PENN, Old Charlton, London, England, assignor to Roadless Traction, Limited, London, England. Filed Aug. 22, 1922. Serial No. 583,576. 6 Claims. (Cl. 305—10.)



1. In a chain or like coupling, a plurality of members, interlocking devices at the adjacent ends of two members each having an internal spherical surface, a ball interposed between adjacent spherical surfaces, and a flexible covering enclosing the joint thus formed to exclude dust.

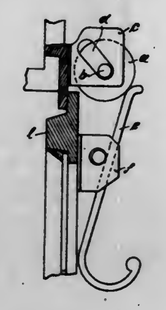
1,451,517. SPRING WHEEL. WILLIAM H. SMITH, Bridgeport, Conn. Filed Feb. 27, 1922. Serial No. 539,674. 2 Claims. (Cl. 152—29.)

1. A spring wheel comprising a hub member including an inner band forming a portion of the hub, a plurality of resilient circular concentric bands of sheet metal disposed about said hub band and a plurality of spring elements disposed between adjacent ones of said bands, each of said elements comprising a ring of resilient sheet metal, the spring elements of each series being in side by side spaced relation and said elements being unconnected with each other and attached only at their inner and outermost points to the bands, the series of spring elements between adjacent bands being in staggered relation to those of the series at either side thereof, said bands being spaced gradually lesser distances apart inwardly, and said spring elements of the series of spring elements gradually decreasing in size inwardly, and cushion blocks



having concave side faces conforming to the spring elements and interposed between said elements for resisting flexing of the latter.

1,451,518. SHUTTING OR FASTENING CONTRIVANCE. ROBERT WEBER, Dresden, Germany. Filed May 25, 1920. Serial No. 384,243. 3 Claims. (Cl. 292—261.)

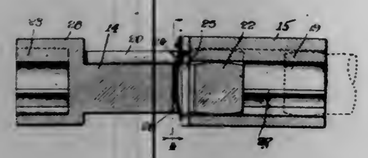


1. In a closure-fastener, simultaneously acting as buffer for use at windows, doors, ventilating flaps and the like, a casement, having two brackets projecting therefrom, said brackets being provided with elongated slots, said slots being inclined against the opening movement, a roller, said roller being provided with trunnions, said trunnions being movable in said slots, said roller being normally held on the axis of rotation of the window-sash, means for guiding said roller by its trunnions in upward direction as soon as the window-sash provided with said arrangement shall be moved in order to be opened and closed whereby said roller returns automatically in its original position after each movement of the same.

1,451,519. ROLLING-MILL COUPLING AND SPINDLE. HENRY W. WILSON, Duluth, Minn. Filed Nov. 24, 1920. Serial No. 426,172. 4 Claims. (Cl. 64—91.)

1. In a rolling mill construction, means adapted to transmit power from a driving wobbler to a driven wobbler, comprising a coupling and a spindle associated together, the coupling consisting of a single casting hav-

ing a multiplicity of straight interior projections extending longitudinally from end to end, one end being adapt-



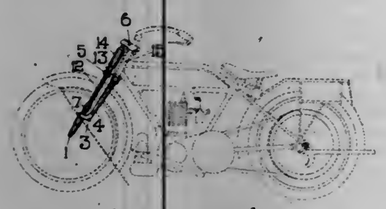
ed to engage one wobbler, the other end being adapted to engage one end of the spindle, the other end to the spindle being adapted to engage the other wobbler.

1,451,520. ADVERTISING SIGNBOARD WITH MOVABLE REFLECTING AND TRANSLUCENT INSCRIPTIONS. VINCENT WISNIEWSKI, Berlin, Germany. Filed Sept. 16, 1922. Serial No. 588,562. 5 Claims. (Cl. 40—133.)



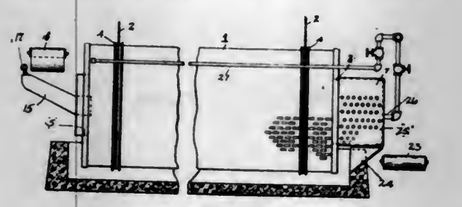
1. An advertising sign board for day or night advertising, comprising a casing, a front closure for said casing provided with diaphanous characters, a source of illumination in said casing behind said closure and translucent mirror interposed in said casing between said closure and source of illumination whereby said mirror will reflect light from a source exterior to said casing through said transparent characters and will permit the light from said source of illumination to pass through said characters.

1,451,521. WHEEL FORK. HERBERT OLIVER WOOD, Saltaire, England. Filed Apr. 7, 1920. Serial No. 371,869. 6 Claims. (Cl. 208—96.)



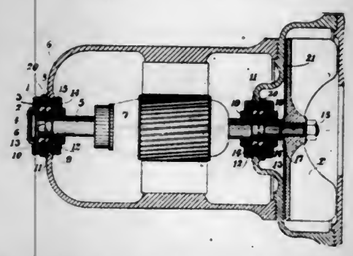
1. A fork support for vehicle wheels comprising a pair of spindles, a wheel axle supported on said spindles, a fork supporting said spindles, a rigid steering fork, means to allow of relative axial movement between said spindles and said steering fork, and means to prevent binding of said spindles within said supporting fork on the distortion of said spindles.

1,451,522. MECHANISM FOR THE RECOVERY OF PAPER STOCK. BURKE M. BAXTER, Cleveland, Ohio, assignor to American Reduction Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1920. Serial No. 375,214. 5 Claims. (Cl. 92—35.)



1. In mechanism of the character described, the combination with a suitable tank for containing liquid, of a drum rotatably supported with its lower portion submerged in such liquid, said drum having its cylindrical wall formed with perforations and having intake and discharge openings in its respective ends; means for feeding the material to be treated into such first-named opening; and other means adapted to automatically remove residual material through such discharge opening as said drum rotates, said last-named means including a triangular, perforated plate mounted in the interior angle formed between the cylindrical wall of said drum and the adjacent end-wall thereof, and an angle-bar reinforcing the free edge of said plate and having an end projecting into such discharge opening.

1,451,523. BEARING MOUNTING. CARL N. BENSON, New York, N. Y., assignor to The Skayef Ball Bearing Company, a Corporation of Connecticut. Filed Apr. 20, 1922. Serial No. 555,688. 5 Claims. (Cl. 64—36.)

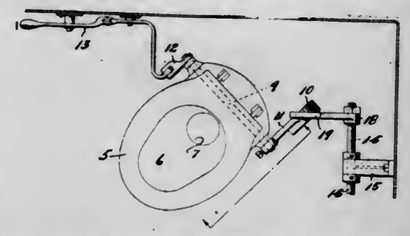


5. The combination with a shaft, of a housing therefor provided with hubs at its respective ends, of a pair of housing sleeves of substantially equal length mounted in the said hubs respectively, an anti-friction bearing comprising an inner and an outer ring and a series of rolling elements mounted within each sleeve, the shaft being mounted upon the inner rings of the anti friction bearings, distance pieces of unequal length respectively located within the housing sleeves, interchangeable caps having screw threaded connection with the ends of the housing sleeves and adapted to limit the outward movement of the distance pieces.

1,451,524. CONTROLLING MECHANISM FOR TOILET STOOLS. BENJAMIN L. BIRKHOLZ, Colonia, N. J. Filed Nov. 8, 1920. Serial No. 422,529. 7 Claims. (Cl. 4—17.)

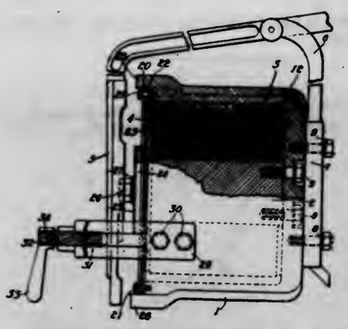
1. The combination with a toilet closet and the ordinary discharging mechanism of the toilet stool therein, of a combined locking and actuating means cooperating with said discharging mechanism, a shaft upon which said combined locking and actuating means is mounted, one end

of said shaft projecting exteriorly from said toilet closet, a hand-lever on the exterior end of said shaft, and a fixed quadrant plate having a quadrant flange provided



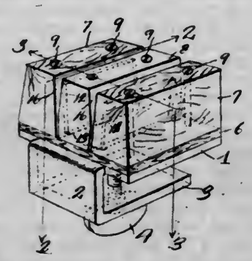
with a neutral notch and a lock notch selectively engageable by said hand-lever to release or lock said ordinary discharging mechanism as desired.

1,451,525. ELECTROMAGNET. EDGAR M. BOUTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1920. Serial No. 351,847. 9 Claims. (Cl. 175—336.)



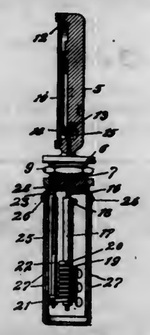
9. In an electromagnetic braking device, the combination with a magnetizable core member, an energizing coil, a magnetizable casing for enclosing and for positioning the said member and the said coil, and a magnetizable brake base on which is mounted the said casing, of an armature member pivotally mounted on the said base and constituting a portion of two parallel magnetic circuits, one of which extends through the said core member and the said casing, and the other of which extends through the said core member and the said brake base.

1,451,526. KNIFE SHARPENER. BYRON E. BOWLES, Council Bluffs, Iowa. Filed June 29, 1921. Serial No. 481,230. 1 Claim. (Cl. 76—86.)



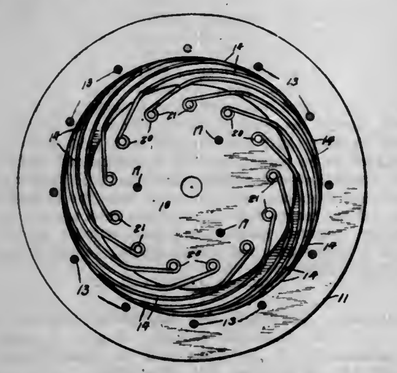
A knife sharpener comprising a base plate, a clamping member carried by said base plate whereby said base plate may be detachably secured to a support, a wooden member disposed on said base plate and of substantially the same size as the base plate, three spaced vertically disposed blocks extending upwardly from said wooden member and attached thereto by means of bolts extending therethrough and into the base plate, the adjacent walls of the blocks being oppositely inclined thereby forming wedge shaped spaces, flat sharpening elements disposed in recesses in the inclined faces of the outer blocks, the inclined faces of the centrally disposed block merging into downwardly and inwardly extending faces in engagement with the inner faces of the flat sharpening elements, and forming means for holding said sharpening elements in place, said centrally disposed block being formed from metal.

1,451,527. TEMPERATURE-INDICATING INSTRUMENT FOR MOTOR-VEHICLE RADIATORS. HARRISON H. BOYCE, Forest Hills, N. Y. Original application filed June 20, 1914, Serial No. 846,247. Divided and this application filed Feb. 20, 1919. Serial No. 278,224. 9 Claims. (Cl. 73—52.)



1. In means for indicating the thermal condition of an internal combustion engine having a water circulation cooling system including a radiator, the combination with the radiator of an instrument adapted to be mounted thereon and having temperature indicating means outside of the radiator and a temperature responsive element within the radiator operatively connected to said indicating means and adjustable means for supporting said temperature responsive element.

1,451,528. VEHICLE WHEEL. THOMAS A. BOYER, Gainesville, Tex. Filed Mar. 21, 1922. Serial No. 545,441. 3 Claims. (Cl. 152—37.)



2. A vehicle wheel having radially spaced hub and rim members, the hub member having kerfs, springs seated

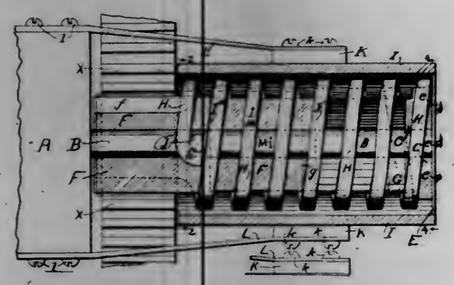
snugly and for a substantial part of their length in said kerfs, said springs at their inner ends having rolls, the kerfs being enlarged to accommodate said rolls, said springs projecting beyond the periphery of the hub member and arranged on curves substantially tangential to the periphery of the hub member and engaging the rim member at their free ends, side plates overlapping said hub member and springs and rim, and bolts passing through said side plates and rim.

1,451,529. RESISTOR ELEMENT. QUINCY A. BRACKETT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 5, 1919. Serial No. 315,394. 7 Claims. (Cl. 219—74.)



1. In combination with an insulating base, fixed spaced metallic projections embedded in said base, and means for attaching a resistor to said projections.

1,451,530. ELECTRIC STARTER FOR INTERNAL-COMBUSTION ENGINES. ODILON BRISBOIS, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 443,172. 5 Claims. (Cl. 74—7.)



1. A rotatably mounted shaft, means to drive said shaft, a cylinder concentric to said shaft, and a yielding shaft in said cylinder, in combination with means to attach one end of said yielding shaft to said first shaft, a member provided with external gear teeth loosely mounted on said first shaft, and a projecting member on said loosely mounted member arranged to engage with said yielding shaft and engaged with said cylinder, and adapted to be moved laterally a determined distance by the rotation of said yielding shaft, and said yielding shaft arranged to engage said abutment upon the completion of the lateral travel thereof and turn said projection, said loosely mounted member and said cylinder around the axis of said shaft, and means tending to retard rotation of said cylinder.

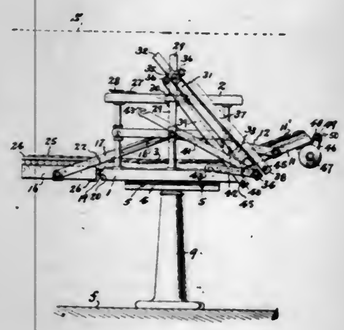
1,451,531. METHOD OF MANUFACTURING ANTI-FRICTION BEARING RINGS. HAROLD E. BRUNNER, Larchmont, N. Y. Filed Jan. 6, 1922. Serial No. 527,445. 6 Claims. (Cl. 29—149.5.)

1. The method of producing grooves in bodies, which consists in providing a pair of members adapted to meet at a plane bisecting the contemplated groove, then spacing the said members apart, and then forming an annular



groove therein having in cross section the form of a continuous arc.

1,451,532. CONVERTIBLE BABY CRIB AND SEAT FOR AUTOMOBILES. LOUIS B. BUCHNER, Caldwell, N. J. Filed Dec. 6, 1921. Serial No. 520,259. 3 Claims. (Cl. 155—44.)



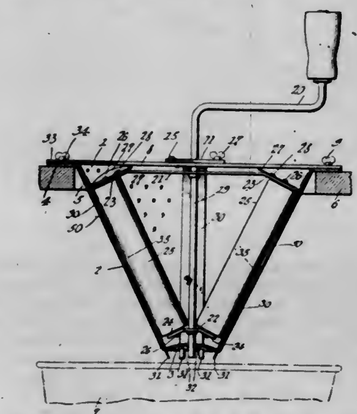
2. In a device of the kind described, a horizontal bottom body having fixed upright sides, means for supporting said bottom body, an adjustable back member connected with the rear end of said bottom body movable to either upright or substantially horizontal position, a convertible member providing either a foot-rest or tray, stays pivotally connected with the sides of said convertible member, the inner ends of said stays having longitudinal slots therein, pivot studs projecting outwardly from said upright sides of said bottom body intermediate their upper and lower ends with which said slotted ends of said stays are engaged, cooperative means on the rear edge of said convertible member and the forward edge of said bottom body for coupling the former in foot-rest relation to the latter, and additional cooperative means on the rearward portion of the sides of said convertible member and the forward portion of the upright sides of said body member for coupling said convertible member in tray relation to the latter.

1,451,533. DENTURE. HOUSTON MUNROE CARROLL, Sr., San Antonio, Tex. Filed Nov. 13, 1922. Serial No. 600,590. 2 Claims. (Cl. 32—4.)



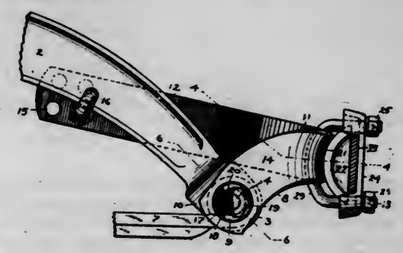
2. In a device of the class described, a lower set of artificial teeth comprising a plate; a combined retainer and tooth coacting with the rear portion of the plate and having a grinding surface, the retainer and tooth including a laterally projecting part; and means for securing the retainer and tooth to the plate, said means being extended beneath said part.

1,451,534. TOMATO STRAINER. JOHN CHOPPA, New Haven, Conn. Filed July 23, 1921. Serial No. 487,066. 6 Claims. (Cl. 100—47.)



1. In a device of the class described, a receptacle; a pressure member cooperating with the receptacle; means for mounting the pressure member for orbital movement; and a resilient retarder extended longitudinally of the receptacle and located in the path of the pressure member.

1,451,535. APPLIANCE FOR ATTACHING BUMPERS ADJUSTABLY TO AUTOMOBILES. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed Nov. 13, 1922. Serial No. 600,527. 3 Claims. (Cl. 293—55.)



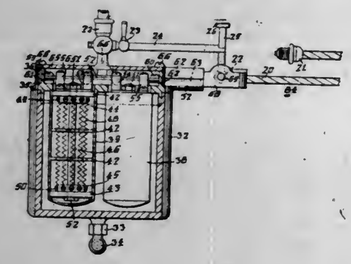
1. A loop-shaped bracket having rearwardly extending attachment arms and a concavo-convex front portion, a rounded clamping segment seated within the concaved side of said front portion, and a yoke-shaped clamping device and associated clamping means adapted to secure a bumper and said segment jointly together in rotatable adjustable position upon said bracket.

1,451,536. TIRE TUBE. SOLOMON L. DAVIS and EARL H. RINEHART, El Paso, Tex. Filed Nov. 5, 1921. Serial No. 513,078. 1 Claim. (Cl. 152—13.)



A pneumatic tube of the character described comprising an outer wall, an inner wall and an intermediate wall dividing the space between the outer and inner walls into circumferentially extending chambers, resilient material filling the outer chamber, resilient material of greater consistency than the first mentioned material filling the inner chamber, said walls and material being slightly tapered toward one end, and at the opposite end the outer and inner walls extending substantially beyond the intermediate wall and said resilient materials as and for the purpose specified.

1,451,537. ELECTRIC HEATER. MANUEL D. DOMINGUEZ, New Orleans, La. Filed May 1, 1922. Serial No. 557,691. 6 Claims. (Cl. 219—39.)

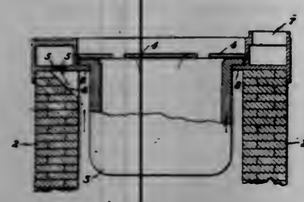


1. An electric heater comprising, in combination, a casing, a removable cover for said casing, cylinders carried by and projecting from said cover, heating elements contained in said cylinders, buss bars attached to said cover, and electrical connections from said bus bars to said heating elements.

1,451,538. VENTILATOR. FRANK ENGEL, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,114. 3 Claims. (Cl. 98—55.)

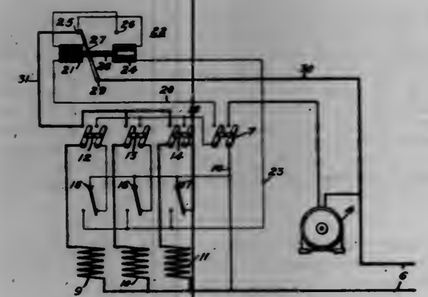
2. In combination, a fire box wall, a pot and a ventilator supported by said wall, said ventilator comprising a frame work forming a passageway surrounding the upper edge of said pot, said framework having apertures communicating with said passageway from between

said wall and said pot and from points adjacent to the top of said pot and also having an exhaust aperture



through which fumes may be drawn off from said ventilator.

1,451,539. ELECTRIC HEATING SYSTEM FOR IRONING MACHINES. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Feb. 14, 1921. Serial No. 444,728. 9 Claims. (Cl. 219—20.)



1. In an electrically heated apparatus, the combination with a motor for driving said apparatus, a switch for controlling said motor circuit, and electric heating means for said apparatus, of circuit-controlling means for said heating means operated in accordance with said motor switch.

1,451,540. MANUFACTURE OF SELF-HARDENING REFRACTORY ARTICLES. WILLIAM A. FRANCE, Philadelphia, Pa. Filed Dec. 22, 1920. Serial No. 432,533. 13 Claims. (Cl. 106—9.)

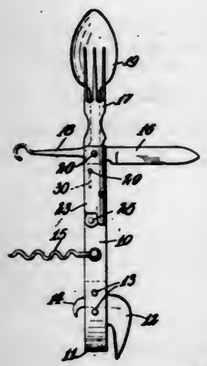
1. The method of manufacturing refractory articles, such as furnace-lining bricks, which consists in mixing magnesite with other elements including magnesium chlorid in a molten condition, forming the same, and finishing the resultant by subjecting it to the drying action of air and without burning.

1,451,541. METHOD OF AND APPARATUS FOR MAKING PROPELLERS. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,352. 5 Claims. (Cl. 18—56.)



1. The method of curing a propeller formed of fibrous sheet material and a binder which comprises subjecting the propeller to heat and pressure in a mold to partially cure and harden the binder, clamping the propeller with the thrust faces of its blades at the desired angles and baking the propellers to complete the curing and hardening of the binder.

1,451,542. COMBINATION UTENSIL. ANDREW FTYKLO, Braznell, Pa. Filed Nov. 1, 1921. Serial No. 511,987. 1 Claim. (Cl. 7—16.)



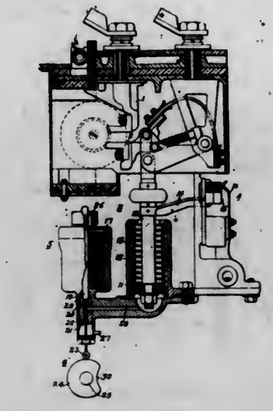
In a composite implement, a body comprising a handle formed of a plurality of flat metal strips, a plurality of tools secured at each end of said body, one tool at one end of said body being partially comprised of curved portions of a pair of said metal strips, said curved portions projecting laterally to either side of said body, the plurality of tools at the opposite end of said body being pivoted to said body and adapted to be positioned between said metal strips when they are in inoperative position, a spring finger located between a pair of said metal strips for each of said pivoted tools, said spring fingers acting to hold said tools either in operative or in inoperative position, a shaft projecting transversely of the body and extending through said strips, a plurality of cams fixed to said shaft for acting on the spring fingers to render the release thereof more facile, a member fixed to one end of said shaft adapted to be manually operated to cause the cams to act on said spring fingers, and squared portions of said pivoted tools for coperation with said spring fingers.

1,451,543. ELECTROPLATING WITH ZINC. JOSEPH HAAS, Jr., Muncie, Ind., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1922. Serial No. 588,567. 14 Claims. (Cl. 204—18.)

1. In zinc electroplating from a cyanid bath, the step which consists in depositing zinc in the presence of mercury to produce a coating of zinc alloyed with a small percentage of mercury.

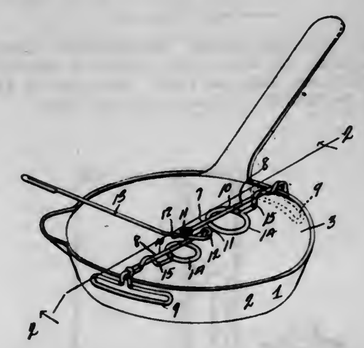
1,451,544. CONTROL APPARATUS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,797. 8 Claims. (Cl. 200—5.)

1. The combination with a plurality of movable control members, of means for mechanically actuating the first of said members to a certain position, and means normally responsive to the position of a second member for itself



electrically preventing the return movement of the first member.

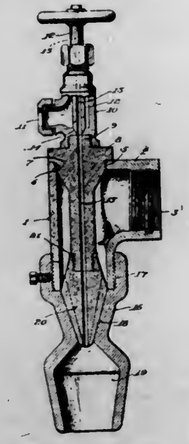
1,451,545. FRYING-PAN-COVER HOLDER. FRED INGERSOLL, Omaha, Nebr. Filed July 20, 1922. Serial No. 576,192. 3 Claims. (Cl. 53—7.)



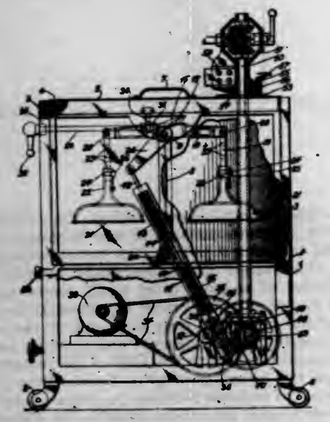
1. The combination with a frying pan having a cover thereon, said cover frictionally engaging the inner periphery of the frying pan, of a cover holder, said holder comprising angularly shaped members, jaws carried by said angularly shaped members and engaging opposite sides of the frying pan, said members also having inwardly extending arms, a handle member, the inner ends of the inwardly extending arms being pivotally connected to the handle member at points so spaced that when the handle member is forced downwardly it will be held in engagement with the cover and the jaws in close and binding engagement with the sides of the pan, and members extending downwardly from the arms and engaging the upper side of the cover.

1,451,546. BURNER. THOMAS F. KENT, New York, N. Y. Filed Oct. 4, 1921. Serial No. 505,308. 2 Claims. (Cl. 158—76.)

1. In a burner of the character described, in combination, a needle valve whose stem is hollow throughout, said needle valve being provided with a fuel chamber, and means of attachment to a fuel supply, a member secured to the valve and having a fuel-duct therethrough, said member carrying at one end a conical head having circumferential grooves thereon, a member surrounding the first mentioned member and forming a chamber for the reception of a medium to be mixed with the fuel, a nozzle secured to the hollow member and provided with a seat for the conical head, and means for adjusting said nozzle to and from said head for the purpose set forth.



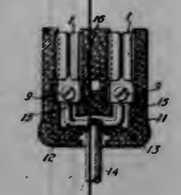
1,451,547. WASHING MACHINE. JULIUS H. KINTZELE, St. Louis, Mo., assignor to Ste. Genevieve Wash Machine Corporation, Ste. Genevieve, Mo., a Corporation of Missouri. Filed Dec. 27, 1921. Serial No. 524,873. 6 Claims. (Cl. 68—19.)



4. A washing machine, comprising a tub, a shaft journaled for rocking movements below and near the top of the tub, a rocker arm within and below the top of the tub, a latch device releasably holding said arm in connection with said shaft for rocking movements therewith, an arm

suspended from the end of said rocker arm, an inverted bowl-shaped plunger supported by said swinging arm, and connections for rocking said rock shaft from said gearing.

1,451,548. CONTACT TERMINAL. HENRY KREISHELD, Mansfield, Ohio, asignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Nov. 20, 1919. Serial No. 339,264. 2 Claims. (Cl. 173—332.)



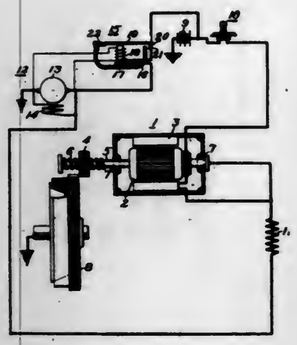
1. A unitary terminal device for electrical conductors comprising a body portion having three extensions, one of said extensions being return-bent against said body portion and two of said extensions being bent at right angles to said body portion on the same side thereof and parallel to each other, and a plurality of longitudinally slotted end portions, transversely bent to arcuate shape to form a tubular socket of circular cross section.

1,451,549. LIFTING DEVICE. NICHOLAS W. KYLE, Colfax, Ill. Filed Oct. 3, 1921. Serial No. 504,945. 3 Claims. (Cl. 298—19.)



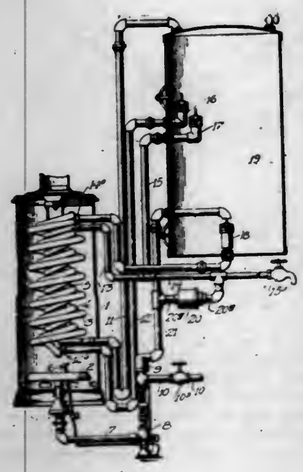
1. In a device of the class described, the combination of a support, a tiltable member, a rotor mounted on said support and including a pair of pins spaced equidistantly from the axis thereof and diametrically opposite each other, a series of at least three toggle levers coupling said rotor to said tiltable member, the terminal levers being respectively pivoted at their outer ends to one of said rotor pins and the tiltable members and pivotally connected at their inner ends with the ends of the intermediate toggle lever, the latter-named pivotal connections having slots therein, the distance between the pivotal connections of said levers to each other being equal to the distance between the pins on said rotor, and the said slots in said pivotal connection adapted to receive and engage pins on said rotor, the construction being such that the levers are adapted to swing outwardly in extended relation in alinement with each other and to collapse in nested arrangement with each other and the rotor, and means for transmitting motion to the rotor.

1,451,550. STARTING SYSTEM FOR AUTOMOBILES. WARREN P. LOUDON, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 14, 1920. Serial No. 373,742. 5 Claims. (Cl. 290—36.)



1. In a starting system, the combination with a starting motor, an engine gear wheel, a motor pinion movable axially into mesh with the engine gear wheel, and a resistor connected in series with said motor, of means for electrically connecting said motor to said gear wheel upon engagement therewith by the pinion to short-circuit said resistor.

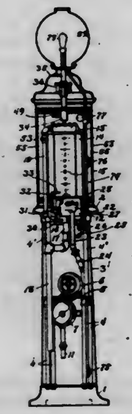
1,451,551. WATER-HEATER MECHANISM. THOMAS MUEHLEISEN, San Diego, Calif., asignor of one-third to Conrad Musch, Fullerton, Calif. Filed Jan. 20, 1920. Serial No. 352,762. 5 Claims. (Cl. 126—362.)



1. An automatic storage water heater mechanism, including a triple coil heater, a storage tank, a cold water conductor communicating with the lower portion of said storage tank, water conducting means connecting the lower ends of two of the coils of said triple coil heater with the interior of said tank intermediate its ends and the lower end of the other coil of said triple coil heater

communicating with the upper end of said tank, the upper end of one of the two first mentioned coils communicating with a service faucet and with the interior of said tank intermediate its ends and the upper ends of the other two coils communicating with the interior of said tank at its lower end in close proximity to the exit end of the cold water conductor.

1,451,552. DISPENSING APPARATUS. MATTHEW B. MUXEN, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Apr. 10, 1919. Serial No. 288,967. 19 Claims. (Cl. 221—100.)



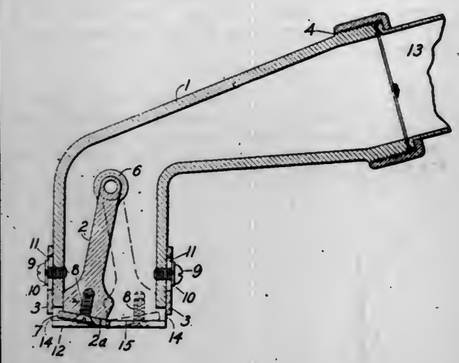
1. In liquid dispensing apparatus, a measure having means in connection therewith for filling and emptying the same, and having also a valve-controlled drain independently operable respecting the emptying means; a float in the measure having a rack-bar in connection therewith; a counter having normal driven relation with the rack-bar; and a mechanism associated with the valve-controlled drain for the disengagement of the counter with the rack-bar when the drain-valve is in open position.

5. In dispensing apparatus having a measure for holding and displaying a quantity of liquid, a filling means for the measure; an emptying means for the measure; a valve controlled drain for the measure independently operable respecting the emptying means; a float mechanism in the measure; a counter having normal driven relation with the float mechanism; and means for the disengagement of the counter with the float mechanism when the drain valve is opened.

18. In a dispensing device, the combination with a bowl including means for filling it with liquid, of a discharge means in communication with the bowl, a valve controlled drain for the bowl independently operable respecting the discharge means, and a lock controlled movable member adapted to prevent operation of the discharge means and to automatically open the valve of said drain.

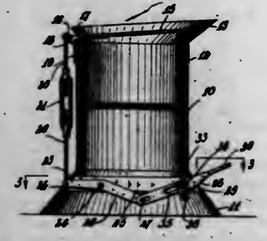
1,451,553. PNEUMATIC CLEANING NOZZLE. JESSE O. REED, Washington, D. C., assignor to Assistant Secretary of Agriculture of the United States of America. Filed Jan. 4, 1923. Serial No. 610,710. 1 Claim. (Cl. 15—155.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

An improved pneumatic cleaning nozzle, comprising a casing adapted to receive air, a valve affixed to the interior of said casing, said valve extending to the mouth of said casing and adapted to be swung in a lateral direction to either side of the casing, and adjustable



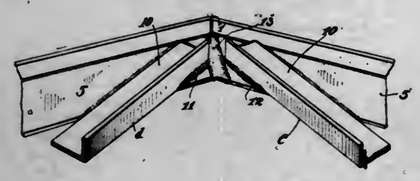
plates affixed to the sides of the casing at the mouth thereof, adapted to regulate the flow of air into said casing.

1,451,554. SANITARY CUSPIDOR. ANTONINA RYBICKY, New London, Conn. Filed Nov. 16, 1922. Serial No. 601,246. 2 Claims. (Cl. 4—39.)



1. In a cuspidor, a hinged cover, an extensible rod connected at one end thereto, a lever fulcrumed between its ends and having said extensible rod connected to one end thereof, a second lever having one end connected to the other end of said first lever, and having its opposite end in the form of a foot-pedal, and means for varying the fulcrum point of the said lever with relation to its ends.

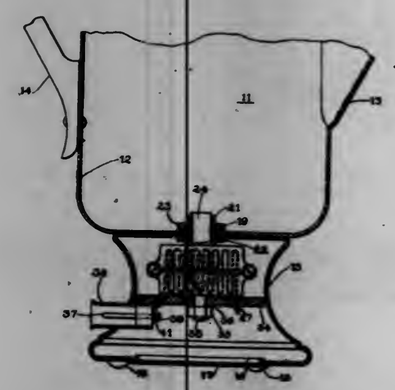
1,451,555. ARC-WELDED TRUSS. WILLIAM SCHENSTROM, Brooklyn, N. Y. Filed Oct. 11, 1920, Serial No. 416,011. Renewed Nov. 4, 1922. Serial No. 599,160. 8 Claims. (Cl. 219—4.)



1. In building construction, a plurality of beams, each throughout its entire extent of uniform cross section,

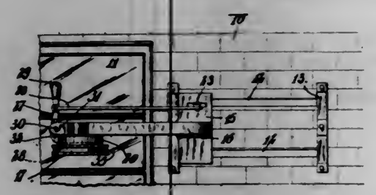
substantially the same chemical composition and in substantially the same state, of unannealed steel having a hardness in the nature of temper; portions of two or more of said beams having mutual surface-contacting portions; and an electric arc weld joining said two or more beams along the edge of said surface-contacting portions.

1,451,556. ELECTRIC PERCOLATOR. FRANK THORNTON, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1922. Serial No. 571,759. 5 Claims. (Cl. 219—43.)



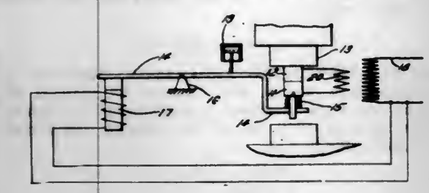
1. In a percolator, in combination, a fluid container, a tubular member constituting a vaporizing chamber secured to the bottom of said container and depending therefrom and having a plurality of integral laterally extending flanges having sides substantially parallel to the longitudinal axis of the tubular member, heating elements engaging the outer sides of said flanges and means for clamping said heating elements against said flanges.

1,451,557. CLOTHESLINE. FRANK TOTH and KÁROLY GOMBOS, Phoenixville, Pa. Filed Jan. 7, 1922. Serial No. 527,692. 4 Claims. (Cl. 68—3.)



1. In a device of the class described, a pulley adapted to have a clothesline looped therearound, a support on which said pulley is movably mounted to permit of positioning the pulley in front of or to one side of a window opening, means for locking said pulley to said support, means for locking said pulley against rotation, connecting means between said locking means, and a handle adapted to operate said connecting means.

1,451,558. ELECTROPERCUSSIVE WELDING SYSTEM. CHARLES F. WAGNER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 14, 1921. Serial No. 469,499. 8 Claims. (Cl. 219—10.)



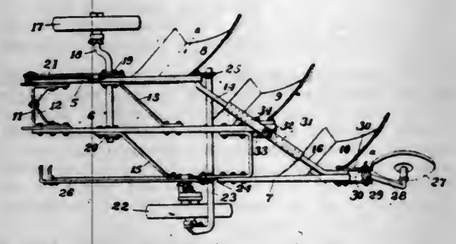
1. In an electro-percussive welding system, means for separating electrodes to be welded comprising a solenoid-actuating contact member.

1,451,559. SECTION INSULATOR. NILS A. WAHLBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 3, 1921. Serial No. 474,717. 12 Claims. (Cl. 191—39.)



12. A trolley-conductor device comprising an arc chute having an insulated magnetizable side member adjacent an arc gap.

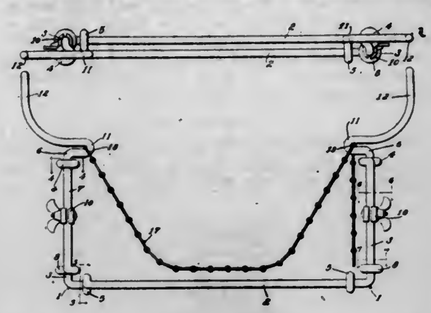
1,451,560. PLOWBRACE. HENRY C. WELKER, Minneapolis, Minn., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 23, 1920, Serial No. 368,059. Renewed Sept. 11, 1922. Serial No. 587,565. 7 Claims. (Cl. 97—93.)



1. In a plow frame, the combination of a plurality of spaced beams connected together at the front, means connecting the rear portions of the beams, and a transversely positioned member connected with the rearward portion of an intermediate beam and having its ends supported by the means connecting the rear portions of the beams.

1,451,561. ARM SUPPORT. CHARLES W. ALLEBRAND and CHRISTOPHER G. GUYATT, Duquesne, Pa. Filed Aug. 5, 1921. Serial No. 490,050. 2 Claims. (Cl. 45—50.)

1. In a device of the class described, base members comprising upstanding parts having eyes, supports vertically adjustable in the eyes and having eyes slidable upon said parts, each base member having an eye receiving the other base member slidably, to permit an adjustment in the distance between the supports, a flexible sling connecting



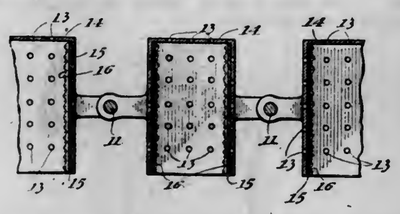
the supports and clamping means cooperating with the supports and with said parts to hold the supports at adjusted heights.

1,451,562. COMB. HENRY W. BABCOCK, Bloomington, Ill. Filed Apr. 10, 1922. Serial No. 551,401. 5 Claims. (Cl. 132—45.)



5. A comb for facilitating the cutting of hair comprising a body shaped to conform to the contour of the head, and forwardly projecting tongues formed on the body having their forward active faces disposed at an angle to the body.

1,451,563. BOAT-PROPELLING MEANS. CARL J. BAER, Riverside, Ill. Filed Nov. 17, 1919. Serial No. 338,591. 5 Claims. (Cl. 170—137.)

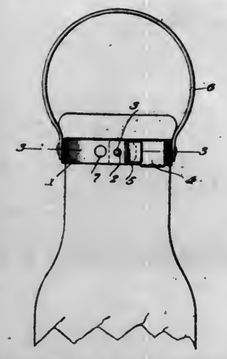


4. Propelling means for boats comprising chambered elements provided with perforated walls permitting free passage of air, and instrumentalities adapted to successively present said elements to the water at an angle, whereby the chambers thereof may be automatically filled with water, and to withdraw said elements from the water at an angle, whereby to automatically discharge the water from said chambers, substantially as described.

1,451,564. BOTTLE ATTACHMENT. WILLIAM W. EDMISTER, Kokomo, Ind. Filed Feb. 20, 1922. Serial No. 538,136. 1 Claim. (Cl. 215—100.)

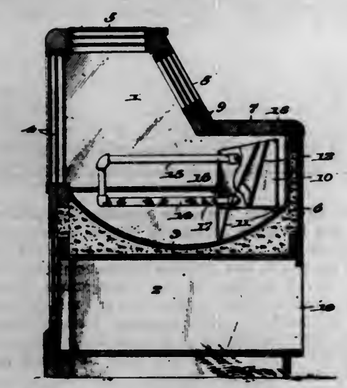
A bottle carrier of the character described comprising a band being provided with a hole adjacent one end, a stud projecting from the outer surface of the opposite end and being designed to engage the hole to connect the two ends together and forming a ring shaped member thereby, a clip slidably secured around the band and being adapted

to pass over the stud and hole when said stud is operatively associated therewith to hold the stud locked therein, a finger piece secured to the clip and lying in the same



horizontal plane therewith to facilitate its operation, a bail pivoted to the ring and a handle rigidly secured to the ring for the purpose specified.

1,451,565. DISPLAY REFRIGERATOR. ALBERT H. EHRLICH, St. Joseph, Mo. Filed Aug. 26, 1921. Serial No. 495,649. 2 Claims. (Cl. 62—37.)

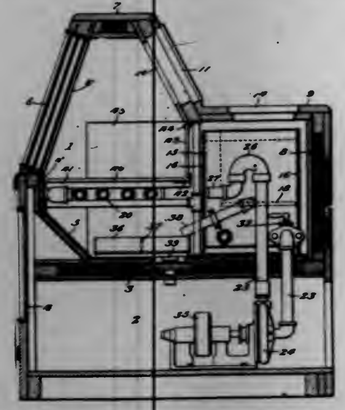


1. A refrigerator comprising a display chamber provided with a curved bottom, and transparent front walls and top, a rear horizontal counterportion provided with lids and an inclined transparent door arranged between the counterportion and the rear of the top, a perforated shelf spaced from the bottom of the display chamber, a cooling tank provided with a plurality of inclined tubes, a cooling coil extending laterally from the tank toward the front of the chamber and beneath the display shelf being connected to the lower part of the tank and having an outlet leading to the upper part of the tank.

1,451,566. REFRIGERATOR DISPLAY COUNTER. ALBERT H. EHRLICH, St. Joseph, Mo. Filed Feb. 25, 1922. Serial No. 539,248. 4 Claims. (Cl. 62—37.)

1. In a refrigerating display counter, a cooling display chamber, the inner front surface of said cooling display chamber having a substantially vertical portion, an upwardly and rearwardly extending window portion connected at the top of said vertical portion, and a rearwardly and downwardly sloping floor connected to the lower portion of said vertical portion, a shelf adjacent the vertical portion for dividing the chamber into an upper display compartment and a lower cooling compart-

ment, and a circulating system in the upper part of said cooling chamber extending between the sloping floor and



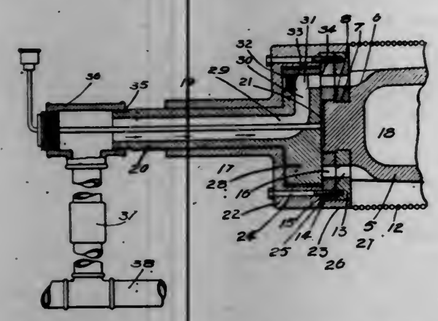
said shelf, whereby an adequate and efficient circulation of air is permitted in both the cooling and display compartments.

1,451,567. GOLD-PANNING MACHINE. CHARLES E. ERICKSON, Delta, Utah, and MATTHEW JAMES MAST, Grand Junction, Colo. Filed Nov. 26, 1921. Serial No. 517,868. 1 Claim. (Cl. 83—88.)



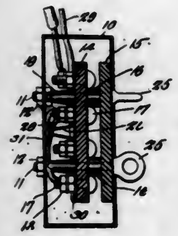
A separator of the character specified comprising a frame, a pan having a corrugated copper bottom coated upon its upper side with amalgam, deflectors in the upper portion of the pan in line with the depressions between the upwardly curved portions of the corrugations, hangers forming suspending means between the pan and frame and normally inclined to the vertical, means for imparting an intimate forward movement to the pan and a bumper for sustaining the impact of the pan upon its return movement and imparting a jar thereto.

1,451,568. VACUUM ROLL. BION B. FARNHAM, Buffalo, N. Y. Filed Aug. 11, 1919. Serial No. 316,664. 3 Claims. (Cl. 92—53.)



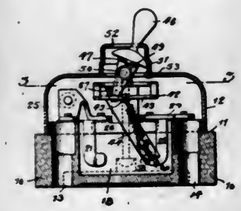
3. In a drying roll, a hub, said roll having compartments formed on the surface thereof, a head mounted at one end of the roll, a valve member mounted between the hub and head, said valve member having a central opening communicating with a lateral opening, said head having an opening communicating with the lateral opening, a piston moving in the last mentioned opening and contacting with the head, and said piston adapted to be forced into engagement with the head to move the cylinder, when steam passes through the openings.

1,451,569. PERMUTATION SWITCH. ROLAND FREDERICK, Fairmount, Ind. Filed Dec. 6, 1920. Serial No. 428,708. 2 Claims. (Cl. 200—43.)



1. A device of the class described comprising a casing, an insulated member located in said casing having a plurality of openings therein, a second insulated member located in the casing and provided with a plurality of openings to correspond with the openings in the first member, a plurality of binding posts extending through the second member between said openings, a plurality of L-shaped contacts surrounding the posts adjacent the edges of the second member, a plurality of U-shaped contacts surrounding the other posts extending through said member and a plurality of pointed keys adapted to extend through the openings in said members and engaging said contacts.

1,451,570. ELECTRIC SWITCH. FREDERIC P. GATES, West Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 9, 1919. Serial No. 343,503. 15 Claims. (Cl. 200—67.)

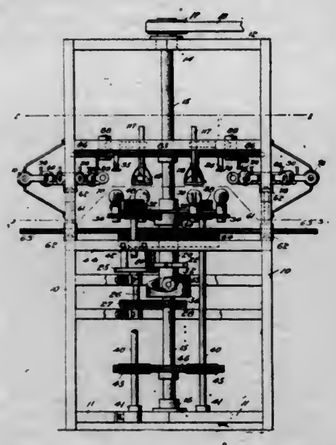


1. In an electric switch, an oscillating rocker, a floating switch bar member pivotally connected therewith, a switch spring, one end of which is operatively connected to said switch bar member, in combination with a skeleton switch frame having an integral bridge piece extending at right angles to the axis of the rocker and affording a fixed support for the other end of the switch spring, a pivot joint between the rocker and switch bar member moving from one side to the other of said point of fixed support of the spring on the actuation of the rocker.

1,451,571. APPLE-PREPARING MACHINE. EDWARD E. GAY, Springdale, Ark. Filed Feb. 13, 1922. Serial No. 536,267. 10 Claims. (Cl. 146—8.)

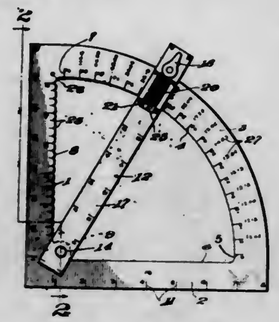
1. In a machine of the character described, an intermittently rotatable carrier, an independently rotatable

member carried thereby, an apple holder movable with said member, a paring knife, and means for reciprocating



said carrier while said holder is revolving to bring the apple into contact with said paring knife.

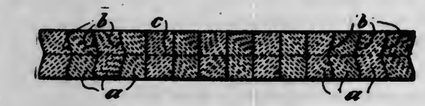
1,451,572. MEASURING INSTRUMENT. WILLIAM R. GREEN, Downers Grove, Ill. Filed Mar. 18, 1921. Serial No. 453,199. 4 Claims. (Cl. 33—93.)



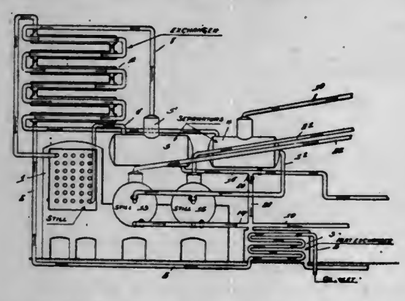
1. An instrument of the class described comprising angularly disposed arms, a segment of more than 90 degrees connecting the spaced ends of said arms, a pivoting boss offset inwardly from the junction of said arms and provided with an opening, concentric with said segment and the center of which forms the apices of the angles denoted on said segment, an arm pivoted to said boss for co-action with said segment, said arm being formed of sheet metal bent to provide a hollow arm structure and provided with cutout portions in its sides forming inturned right angularly disposed clamping ears, and means for clamping said ears in gripping engagement against said segment to lock the arm in adjusted positions.

1,451,573. BELT FOR MACHINERY DRIVING. ALEXANDER HENDRY and MALCOLM ALLAN HENDRY, Glasgow, Scotland. Filed Sept. 23, 1919. Serial No. 325,614. 8 Claims. (Cl. 74—63.)

1. A belt for machinery driving comprising a plurality of strips of material arranged side by side and secured together, an unexposed surface of an inner strip in proximity to the outer strip having therein a groove extending longitudinally of the belt, substantially as and for the purpose set forth.

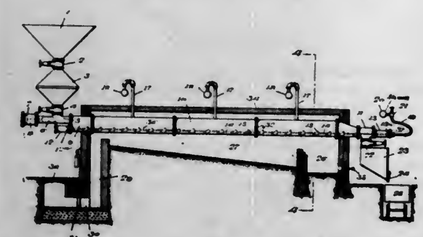


1,451,574. OIL-REFINING DEVICE. CHARLES FRED HILLMAN, Wichita Falls, Tex. Filed Mar. 13, 1920. Serial No. 365,554. 1 Claim. (Cl. 126—3.)



An apparatus of the class described comprising a pipe still, a pair of separators, a pipe line connecting the pipe still with one of said separators, a vapor pipe line connecting said separator with the other separator, a pump line for delivering the crude oil to the pipe still, portions of said line enclosing portions of the vapor line, a condenser connected with the second separator, a pair of stills, a pipe connecting the second separator with said stills so that the oil will flow to said stills by gravity, a pair of condensers connected with said pair of stills, a second pair of stills, a pipe line connecting the same with the first separator so that the oil will flow into said stills by gravity, a pumping out line connected with the bottoms of said pairs of stills, valves in said discharging lines; a by-pass pipe connecting the line leading from the first separator with the pumping out line to cut out the second pair of stills, a valve in said by-pass and means for exchanging the heat of the oil in said pumping out line with the crude oil on its way to the pipe still.

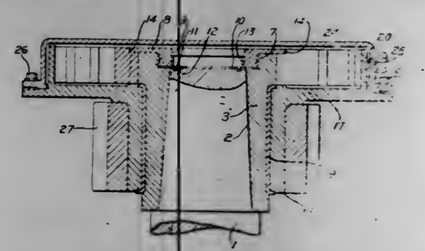
1,451,575. OIL-SHALE RETORT. GEORGE EDWARD HOLMES, Salt Lake City, Utah. Filed Dec. 27, 1919. Serial No. 347,665. 6 Claims. (Cl. 196—19.)



1. Apparatus for distilling oil shale, comprising a heating furnace, a closed horizontal retort, extending through such furnace and subjected to graduated external heat; means for admitting shale into the cooler end of said re-

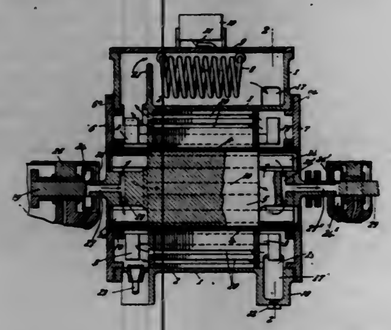
tort; reciprocating means for stirring the shale when said means moves in one direction and to move the shale along the bottom of the retort in the other direction; means for drawing off distilled products progressively along said retort; means to inject low pressure steam through the agitating means along the bottom of the retort while the shale is in process of distillation; and means for discharging the spent shale at the hottest end of the retort, substantially as described.

1,451,576. FLEXIBLE PINION. HAROLD A. HOUSTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1922. Serial No. 574,311. 9 Claims. (Cl. 74—29.)



1. A gear mounting comprising a shaft, a flanged hub secured thereto, a casing for housing said hub and rotatably mounted thereon, a plurality of flexible members disposed between said hub and said casing and a gear secured to an extended portion of said casing.

1,451,577. DYNAMO-ELECTRIC MACHINE. PAUL HERMANN HUDDEN JANTZEN, London, England. Filed Apr. 10, 1920. Serial No. 372,758. 4 Claims. (Cl. 171—252.)



1. A stator structure of a dynamo electric machine comprising a core having passages therethrough, windings carried by said core, a frame supporting said core, end members and an internal cylindrical member forming with said frame and enclosure for the core, the windings, the regions adjacent the ends of the core and the end parts of the windings, the said internal cylindrical member being of non-magnetic and high-resistance material, means for producing circulation of oil through the enclosed space, and means for cooling the oil in circulation.

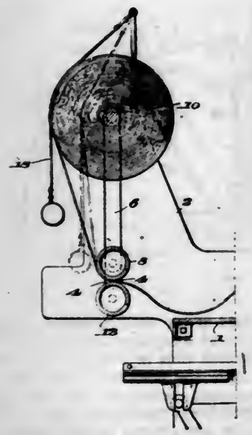
3. A stator structure of a dynamo electric machine comprising a core having passages therethrough and windings carried thereby, a frame supporting said core, end members, an internal cylindrical member of non-magnetic and high-resistance material, said frame, end members and internal member enclosing the core, the windings, the regions adjacent the ends of the core, and the end parts of the windings, and a chamber above the core, cooling means in said chamber, the said chamber being in communication with said end regions to permit circulation of oil between the chamber and the end regions and through the passages in the core.

1,451,578. SOLDERING IRON. FRANK L. KYGER, Streator, Ill. Filed Feb. 26, 1921. Serial No. 448,091. 1 Claim. (Cl. 158—26.)



In a self-heating soldering iron, a head having a soldering point on one end thereof and provided with an inwardly extending axial bore terminating adjacent to the soldering point, the wall of the bore at the outer end thereof being internally threaded for the reception of a gas pipe connection, the head having a pair of spaced parallel slots therein disposed on opposite sides of the bore and terminating short of the opposite ends thereof and arranged in relative close proximity to certain side walls of the head and opening out through certain other side walls of the head, and means for establishing communication between the axial bore and the said parallel disposed slots.

1,451,579. WEB-FEEDING DEVICE. IGNACIO LAZAGA, Salem, Va. Original application filed Dec. 19, 1918, Serial No. 267,511. Divided and this application filed June 15, 1921. Serial No. 477,725. 7 Claims. (Cl. 242—55.)

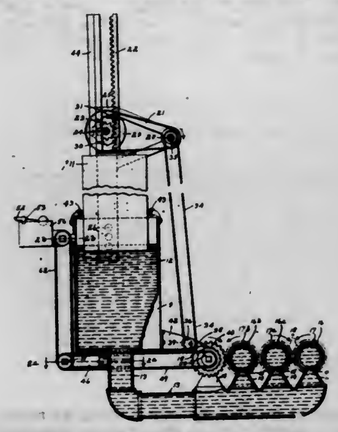


1. In a wrapping machine, the combination of a reel, a pair of feed rollers under said reel, the strip from the reel passing downwardly therefrom and between said feed rollers, and said reel having its weight carried by the upper of said feed rollers.

1,451,580. LIQUID MOTOR. MORITZ THEODORE LINDENBERG, Boston, Mass. Filed Jan. 30, 1922. Serial No. 532,922. 11 Claims. (Cl. 253—18.)

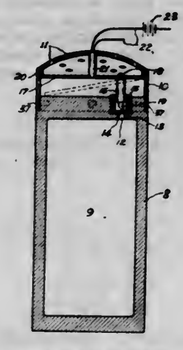
1. A motor comprising a series of tanks, liquid circulating means for supplying liquid thereto including conduits interconnecting said tanks as described, and rotary

valve elements controlling the said conduits, buoyant weight non-synchronously movable in said tanks by liquid supplied to and successively exhausted from the tanks, and means for utilizing the movements of said weights to rotate said valve elements step-by-step, and to transmit unidirectional continuous rotary motion from the motor,



the liquid and the weights being arranged at different elevations, and the arrangement being such that some of the weights are left unsupported by liquid, and free to act by gravity when the accompanying tanks are being exhausted, and the other weights are caused to act by displacement when the accompanying tanks are being refilled.

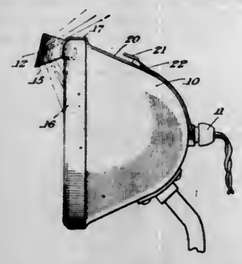
1,451,581. PROTECTIVE APPARATUS FOR SAFES AND SAFETY VAULTS. EMANUEL V. LORIG and ULYSSES G. GRAHAM, Omaha, Nebr. Filed Oct. 27, 1921. Serial No. 510,829. 10 Claims. (Cl. 109—6.)



1. Apparatus of the specified class, comprising a casing for gases under compression; a valve for opening and closing the outlet of the casing; means for opening the valve; an explosive member adapted to operate the opening means; an electric generator for firing the explosive member; a pneumatic circuit-closer connected with the explosive member and with the generator; and a safety device for rendering the circuit-closer inactive.

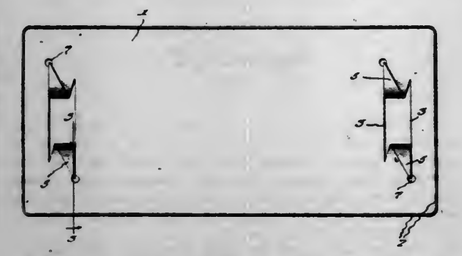
1,451,582. ATTACHMENT FOR HEADLIGHTS. EUGENE P. LOW, Oneida Castle, N. Y. Filed Sept. 27, 1921. Serial No. 503,571. 1 Claim. (Cl. 240—46.)

The combination with an electric head lamp for vehicles including an axially disposed lamp socket, of a reflector arranged upon the front face of the lamp to intercept rays of light from said lamp and reflect them rearwardly, means carried by the reflector for engagement with the lens retaining ring, an arm extending rear-



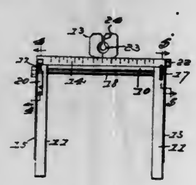
wardly from the reflector upon the outside of the lamp casing, an elastic band having one end looped over the lamp socket and means carried by the rearwardly extending arm for engagement by the band.

1,451,583. FLY-PAPER HOLDER. SAMUEL MCCARDIA, Strathcona, Canada. Filed Oct. 18, 1921. Serial No. 508,589. 6 Claims. (Cl. 43—115.)



5. In a fly paper holder, a plate having upwardly extending flanges on the outer surfaces thereof, upwardly projected rounded fingers arranged in spaced pairs adjacent to the ends of the plate, said fingers having pointed ends which are disposed in comparatively close relation with respect to the body plate, said body plate having openings below and in a line with the fingers, and depending flanges surrounding said openings.

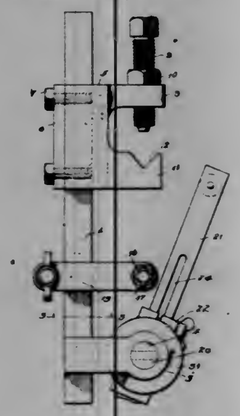
1,451,584. GUN SIGHT. JAMES R. MAPES, Canaseraga, N. Y. Filed Nov. 9, 1920. Serial No. 422,833. 1 Claim. (Cl. 33—56.)



A rear sight for guns consisting of a yoke having a cross bar and slotted side bars of which the latter are adapted for terminal securement by screws to the sides of a gun stock, a sight block movable longitudinally of the cross bar and provided with an adjusting screw for hand manipulation, a transverse spindle paralleling the cross bar and spanning the side bars in which it is journaled, pinions mounted on said spindle, arms depending

from the cross bar and of transversely dovetailed shape and slidable in the slots of the side bars, said arms being formed with rack teeth engaging said pinions, and a spring carried by one of said side bars and formed with a teat for engagement with the teeth of one of the pinions to maintain the same in a desired position of adjustment, the said spindle being provided with a hand hold for rotating it.

1,451,585. BORING MACHINE. ALISTER W. MARQUIS, Hollister, Calif. Filed Feb. 17, 1920. Serial No. 359,385. 4 Claims. (Cl. 77—62.)



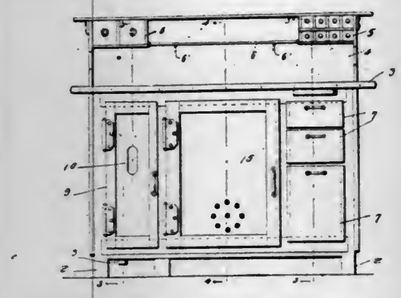
1. A boring appliance comprising a T-shaped frame consisting of a longitudinal bar united to a cross bar at one end, bearing hangers offset from said cross bar and provided with aligned bearing openings, two clamps sleeved over said longitudinal bar and means for securing said clamps at different points along said bar, one of said clamps being constructed so as to receive the wrist-pin of a connecting rod and hold it parallel with the axis of said bearing openings, and the other being adapted to clamp the sides of the connecting rod between its ends, and V-shaped seats of the wrist-pin clamp opening away from the axis of the bearing openings.

1,451,586. SINGLE-VALVE WALL REGISTER. RICHARD A. OLSON, Ironwood, Mich. Filed Dec. 11, 1920. Serial No. 429,920. 2 Claims. (Cl. 98—54.)



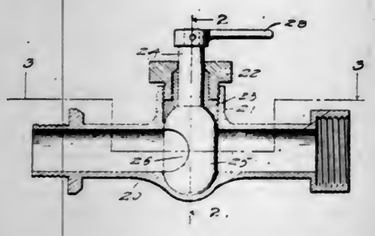
2. A wall register having a valve plate, means to pivotally mount said plate, said plate having an elongated slot, a resilient tongue, means passing through said slot to adjustably mount said tongue, said tongue having a shoulder to abut said register to limit inward swinging movement of said plate, and means on the tongue to resiliently engage the first mentioned means and maintain the plate in an open position.

1,451,587. KITCHEN CABINET. ANTON PEDERSEN, Dagmar, Mont., assignor of one-half to Franz W. Berg, Grenora, N. Dak. Filed May 19, 1920. Serial No. 382,479. 1 Claim. (Cl. 257—9.)



A cabinet of the class described having an article compartment, a chamber at one side of said compartment and spaced therefrom to provide a moisture trap bewteen the article compartment and chamber, a second compartment in said cabinet and spaced from the article compartment and at the opposite side thereof from that at which is located, said second compartment being spaced and insulated from the article compartment, means to space said article compartment and chamber from the walls of the cabinet, said chamber having an opening through its bottom wall in alignment with an opening in the bottom wall of the cabinet, a tubular connection between said openings, said chamber having an opening in its upper end, said cabinet having an opening in one end wall, the means for spacing the chamber and article compartment from the walls of the cabinet being so arranged as to direct a temperature changing medium in through one pair of openings in the cabinet and chamber and out through the second pair of said openings, said spacing means also serving to direct said temperature changing medium about said article compartment.

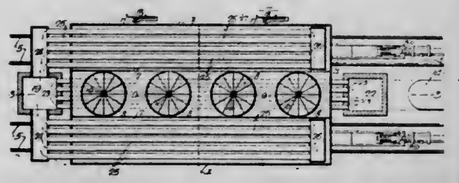
1,451,588. HOSE VALVE. ULRICH REIDT, Los Angeles, Calif. Filed Apr. 24, 1920. Serial No. 376,347. 1 Claim. (Cl. 251—91.)



A valve comprising an elongated body having its side and bottom walls offset at a point intermediate its ends, said offset in the side walls of the body being arcuate in section, said offsets in the bottom walls being semi-spherical to provide a seat, an internally screw threaded boss formed on the body in vertical alignment with said seat, a valve stem journaled in the boss, a stuffing gland in the boss, a packing in said boss and engaged by said gland and adapted to be moved inwardly thereby, a valve

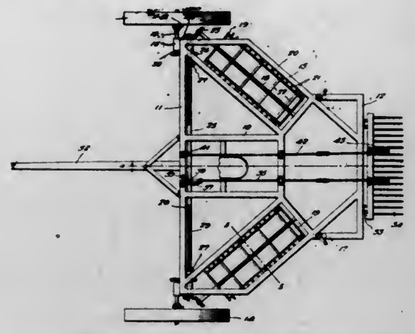
head formed on the stem, said valve head being cylindrical and provided with semi-spherical ends, the side of said valve head contacting with the arcuate portions of the offset side walls of the body, one semi-spherical end of said guide head engaging the seat and the other end engaging the packing of the stuffing gland, said valve head having a recess in one side to permit the passage of fluid through the body when said head is in one position, and said valve adapted to be held tightly on its seat by adjusting said gland inwardly and thereby compressing the packing.

1,451,589. DRIER. WALTER M. SCHWARTZ and ELWOOD B. AYRES, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1922. Serial No. 532,388. 8 Claims. (Cl. 34—46.)



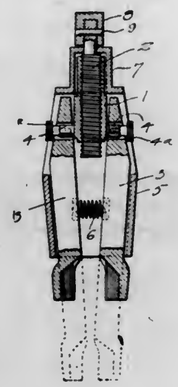
1. The combination in a drier, of a drying chamber; means for circulating air in said chamber; a flue communicating directly with the lower portion of the chamber; a series of flues extending through the upper portion, but not communicating therewith; and means, in the chamber, for supporting the articles to be dried, said first mentioned flue admitting heated air to the drier and the other flues radiating heat derived from the products of combustion passing through the flues.

1,451,590. RAKE. OSCAR F. SCHWEDER, Billings, Mont. Filed Mar. 15, 1921. Serial No. 452,490. 1 Claim. (Cl. 56—376.)



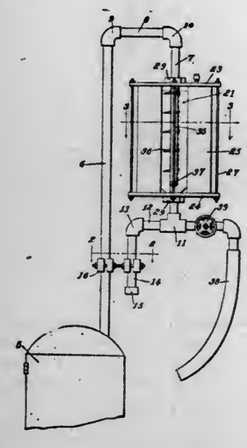
A rake comprising a frame including front and rear transversely arranged parallel bars, traction wheels located adjacent the front transverse bar, rakes carried by the frame at each side thereof, a centrally located rake hingedly secured to the rear transverse bar at the rear of the side rakes, a shaft extending transversely of the frame, a substantially L-shaped arm pivotally mounted upon the shaft, means connecting the arm and hinged rake, a toothed wheel secured upon the shaft, a spring actuated dog pivotally secured to the L-shaped arm and normally disengaged from the toothed wheel and manually operated means connected to the dog, whereby the latter may be engaged with the toothed wheel to pivotally move the L-shaped arm and raise the hinged rake to dumping position.

1,451,591. ADJUSTABLE SOCKET WRENCH. JOHN C. SIBISKI, Baltimore, Md. Filed Nov. 2, 1921. Serial No. 512,326. 2 Claims. (Cl. 81—113.)



1. A device of the class described including a hollow socket having side walls, the sides of the socket being open between said walls and the top wall of the socket, a screw journaled in said top wall, a head on said screw exteriorly of the socket and resting on the top wall, a nut within the socket, jaws within the socket in engagement with and for which said sides of the socket constitute guides, the jaws having openings therethrough, and means to extend through said openings to establish connections with the nut, and said means including detachable fastenings for application through the spaces of the socket above said sides.

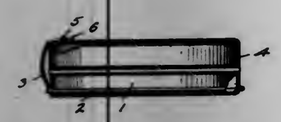
1,451,592. GASOLINE DISPENSER. CHARLES EUGENE SIDES, Lexington, N. C. Filed July 20, 1921. Serial No. 486,155. 1 Claim. (Cl. 221—99.)



In combination with a dispensing tank and the discharge pipe thereof, a receiving tank formed of transparent material associated with the dispensing tank and adapted to receive fluid therefrom, a circular metallic casing housing the receiving tank, said casing having an opening, a transparent member disposed in the opening, a wall at each end of the circular housing, a rod con-

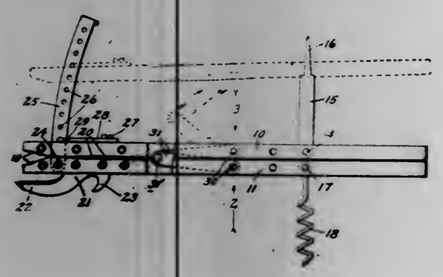
necting the walls, an adjustable bar supported by the rod, said bar carrying lateral extensions, a discharge pipe in communication with the receiving tank, and a valve for controlling the passage of fluid from the receiving tank to the discharge pipe.

1,451,593. BOX OPENER. OLE SKAAR, Akron, Ohio. Filed Sept. 3, 1921. Serial No. 498,283. 1 Claim. (Cl. 220—43.)



In combination with a box including a body having a rib formed thereon and a cover for the body, a device for facilitating the removal of the cover from the body including an arcuate spring body adapted to extend the entire height of the box, and an inwardly extending straight attaching ear arranged to overlie the top of the cover and to lie flat thereon and terminate outwardly of the center of the cover, the free lower end of the arcuate spring body engaging the rib when the cover is on the body, and means disposed adjacent to the edge of the top wall of the cover and extending through the top wall and the attaching ear for normally holding the device in position on the cover, the meeting portion of the arcuate resilient body and the attaching ear engaging the cover at all times, whereby swinging movement of the resilient body is prevented in relation to the cover and rib.

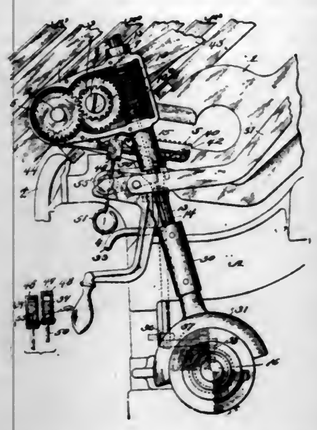
1,451,594. KITCHEN TOOL. HARRY SMOOKLER, Los Angeles, Calif. Filed June 27, 1921. Serial No. 480,573. 7 Claims. (Cl. 7—4.)



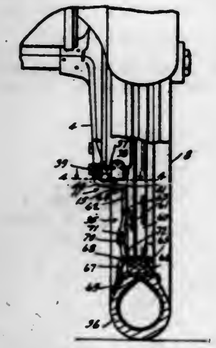
7. A tool comprising jaws, a connection between the jaws whereby the spaced position of the jaws from end to end can be varied, and means for pivotally sustaining the jaws irrespective of their relative positions.

1,451,595. TYPOGRAPHICAL MACHINE. SAMUEL E. SPERRY, Woodhaven, N. Y., assignor to Intertype Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 7, 1921. Serial No. 499,007. 16 Claims. (Cl. 199—45.)

1. In a typographical machine embodying means for shiftably supporting a set of at least three matrix magazines whereby one or another thereof may be brought into operative position, power-operated means for shifting the magazines in opposite directions, manually-controlled means for setting said power-operated means into operation to shift the magazines in one or the other direction, and manually-set means for predetermining the extent of the shift.

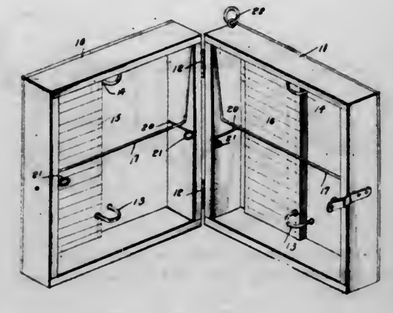


1,451,596. CIRCUIT CLOSER FOR SOFT-TIRE ALARMS. GEORGE L. STEVENS, Long Beach, Calif. Filed Jan. 31, 1919. Serial No. 274,249. 2 Claims. (Cl. 200—58.)



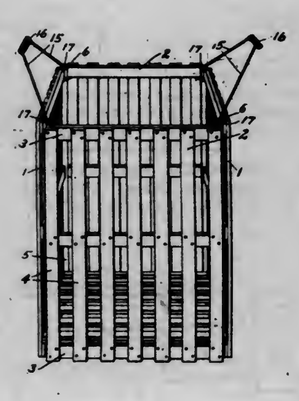
1. A switch supporting bracket adapted to be secured to the frame of a vehicle and extend downwardly on the inner side and adjacent to a wheel, a switch blade pivotally mounted upon the bracket and grounded to the frame, a pair of contacts insulated from the frame and connected together and in position to be engaged by the switch blade, a bearing bracket adapted to be secured to a spoke of a wheel, a lever connected to the bearing bracket by a pivot, a finger extending inwardly from the upper end of the lever in a plane to pass the switch blade and adapted to swing into engagement with the switch blade, a second bearing bracket adapted to be attached to the felly of the wheel, and a second lever pivoted at its center to the second bracket and having a lower end adapted to bear upon the inner side wall of a pneumatic tire, and having its upper end connected to the lower end of the first lever; so that when the tire goes flat the upper end of the first lever will swing into the plane of the switch blade and move the switch blade against one of the contacts.

1,451,597. SAFETY-FIRST REMINDER. CHARLES M. STEWART, Denver, Colo. Filed Mar. 2, 1921. Serial No. 449,210. 1 Claim. (Cl. 129—4.)



A device for the purpose described having a casing consisting of relatively movable sections provided interiorly respectively adjacent their longitudinal centers with temporary binding clips, leaves reversibly disposed on said clips, and lifting means in connection with each section and consisting of arms pivotally connected with the bottom of the section and extending to the side walls thereof beneath the schedules, said arms being provided with terminal upstanding extensions having finger holds.

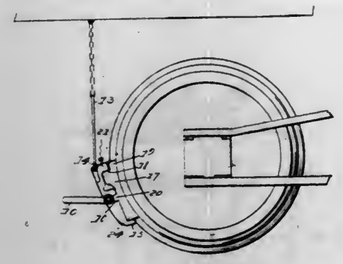
1,451,598. COLLAPSIBLE CRATE. ENOS E. SUTHERLAND, Los Angeles, Calif. Filed Apr. 18, 1922. Serial No. 555,396. 4 Claims. (Cl. 217—48.)



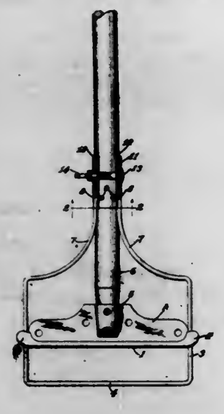
1. The combination with a collapsible receptacle having hinge forming members at the corners of the side walls, of bail like means pivoted upon said members and adapted to be moved into interengaging position.

1,451,599. BRAKE SHOE. EDWARD C. TEAGUE, Kansas City, Mo. Filed Apr. 18, 1922. Serial No. 554,355. 2 Claims. (Cl. 188—242.)

1. A brake mechanism having a head and a brake shoe removably seated upon and having an interlocking engagement therewith, and a spring actuated locking pin for securing the shoe in its interlocked relation with the head, the head having upper and lower forwardly projected lips of which the latter is provided with an upwardly extending stud for engagement with a socket in the lower end of the shoe, and the former carries the locking pin for engagement with a socket in an underlapping shoulder of the shoe.



1,451,600. MOP HOLDER. HENRY M. VAN DEUSEN, Westfield, Mass. Filed May 31, 1922. Serial No 564,771. 1 Claim. (Cl. 15—151.)

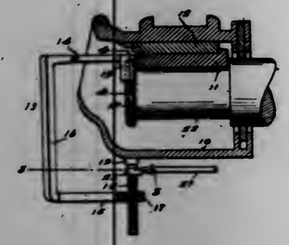


In a mop holder having a handle and a transverse head member with lateral guides, a mop engaging device comprising a light rod bent into substantially rectangular form having its sides slidably engaged with the lateral guides of the head member and its ends bent into locking engagement with the flanges of a runner clamp, said clamp consisting of sheet metal bent to embrace the handle and having spaced parallel flanges, said flanges being connected by a wing nut bolt to tighten the clamp on the handle.

1,451,601. JOURNAL-BOX JACK. SAMUEL C. VAUGHN, Charlotte, N. C. Filed Apr. 18, 1921. Serial No. 462,387. 1 Claim. (Cl. 258—34.)

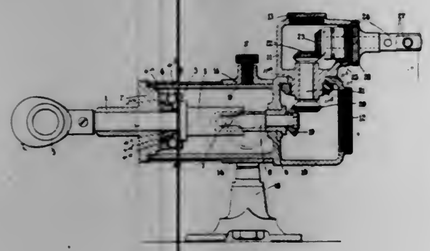
A journal box jack comprising a substantially U-shaped member presenting horizontal upper and lower parallel bars connected by a vertical bar offset laterally with respect to the parallel bars, an integrally formed

head depending from adjacent the free end of the upper bar and presenting a groove for the reception of the outer end of a car journal or axle, a bearing arm integral with the lower horizontal bar and extending inwardly from adjacent the outer free end thereof in spaced parallel relation to the upper face of the bar, a screw extending vertically through aligned openings in said



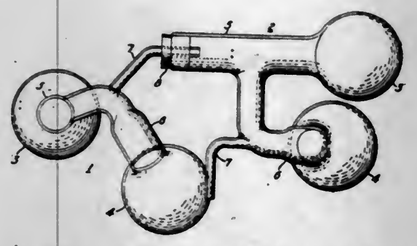
arm and lower horizontal bar, a gear positioned for rotation between the said arm and lower horizontal bar and having a central bore threadedly engaging the said screw, a shaft journaled longitudinally of the said lower bar in bearings extended laterally from the lower bar, a worm on one end of the shaft engaged with the said gear, and an operating lever at the opposite end of the shaft.

1,451,602. SHIP'S LOG. THOMAS SYDNEY WALKER and PHILIP JEFFERY WALKER, Birmingham, England. Filed Oct. 24, 1921. Serial No. 510,165. 3 Claims. (Cl. 73—122.)



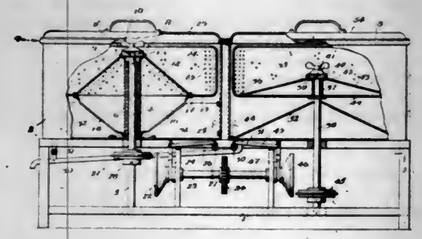
1. An apparatus for transmitting the movement of a rotor to the indicating mechanism of a ship's log comprising a supporting structure mounted for universal movement, said supporting structure having an intermediate apertured web, a bearing in said aperture, an arbor rotatably mounted in said bearing, a bearing plate removably secured at one end of said supporting structure, said bearing plate being apertured coaxially with said web, a primary spindle carried by said bearing plate, said spindle being forked to slidably embrace said arbor, a pin extending at right angles from said arbor and adapted to ride between said forks, a secondary supporting structure removably secured to said first-named supporting structure, and spindles mounted in said secondary structure in driving connection with said arbor.

1,451,603. STILL. HENRY C. P. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 5, 1919. Serial No. 315,503. 10 Claims. (Cl. 23—3.)



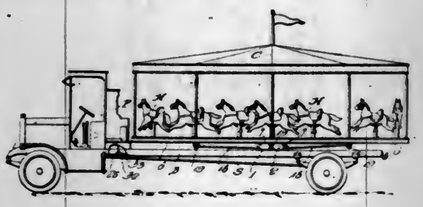
1. A still comprising a pair of flasks having the neck of one communicating with that of the other and integral therewith.

1,451,604. WASHING MACHINE. HARVEY L. WHEELER, Fremont, Ohio. Filed Mar. 28, 1921. Serial No. 456,058. 4 Claims. (Cl. 68—18.)



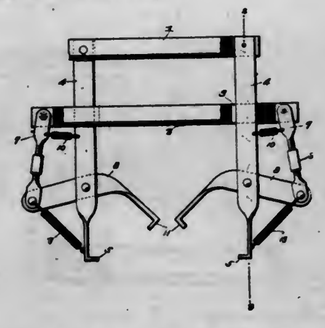
1. In a washing machine, a perforated clothes container rotatable in a horizontal plane and provided with a relatively large opening in its bottom, an inverted cone attached to said container about the rim of said opening, said inverted cone provided with a plurality of slits extending longitudinally of its side, the edges of said cone adjacent said slits being bent in opposite directions to pick up and force water into said container.

1,451,605. CARROUSEL. PHILIP ADELSON and EDWARD ADELSON, Cambridge, Mass. Filed Mar. 27, 1922. Serial No. 547,080. 3 Claims. (Cl. 46—27.)



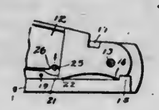
1. In a carrousel, a support, a plate mounted thereon, a runway secured to the upper side of the plate, a platform arranged above said runway, roller bearings carried by the platform and cooperable with the runway, a shaft connected at its upper end to said platform, a sprocket secured to said shaft, a drive chain cooperable with the sprocket, and a plurality of radially disposed bracing arms secured at their inner ends to said runway and provided at their outer ends with anti-friction rollers engaging the underside of said platform to facilitate the rotation thereof.

1,451,606. LIFTING TONGS. OSCAR ARNESON, Garretson, S. Dak. Filed June 20, 1921. Serial No. 479,066. 4 Claims. (Cl. 29—84.)



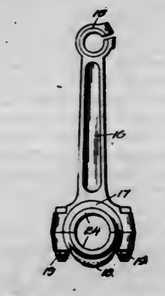
1. A lifting device of the class described comprising fixed and movable jaws, means movable toward each other for closing said jaws, a spring for opening said jaws, and means for steadying the movable jaw during their gripping operation.

1,451,607. KNIFE. LANGDON B. BATES, Thomaston, Me. Filed Apr. 13, 1922. Serial No. 552,178. 3 Claims. (Cl. 30—10.)



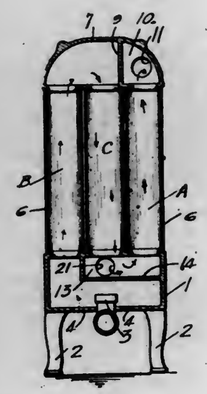
1. The combination with a folding knife including a handle and a blade pivoted thereto having notched portions therein, of resilient means having a locking extremity adapted to respectively engage with the locking notches for positively retaining and locking said blade in opened or closed positions, and means carried by said handle and engageable with the locking means for effecting the release thereof, said releasing means having an element thereof normally disposed in the path of movement of a portion of the blade when in closed position to constitute an auxiliary means for locking the same in closed position.

1,451,608. CRANK-SHAFT AND CONNECTING-ROD BEARING. WILLIAM CRAWFORD BELL, Baltimore, Md. Filed May 17, 1922. Serial No. 561,757. 3 Claims. (Cl. 74—38.)



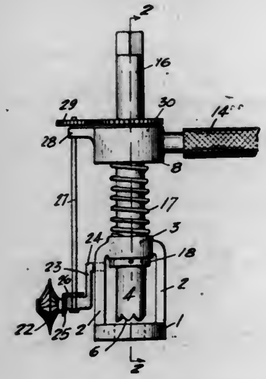
3. In combination an engine shaft provided with a pair of cranks each formed with a conical bearing, a journal portion spherical throughout and integral with said conical bearings, and a connecting rod provided at one end with means to provide a sectional bearing socket spherical throughout and mounted on said spherical journal, said means provided with conical bearings opposing the conical bearings on the cranks.

1,451,609. GAS RADIATOR. WILLIAM H. CAIN, Los Angeles, Calif. Filed June 20, 1921. Serial No. 479,150. 9 Claims. (Cl. 126—91.)



3. A radiator comprising a set of flues, a second set of flues communicating with the first set, a third set of flues communicating with the second set of flues, and a discharge flue common to all of the flues of the third set.

1,451,610. BORING MACHINE FOR PAPER. ISIDORE GESTAS, Los Angeles, Calif. Filed Sept. 15, 1921. Serial No. 500,878. 3 Claims. (Cl. 164—60.)



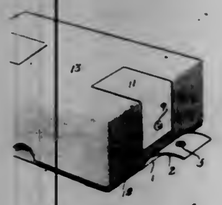
1. A paper boring machine, comprising a support, a cutter having a stem mounted in said support, a passageway through said stem, a chamber surrounding said stem, ports in said stem communicating with said chamber, and means for causing the wasted portion of the paper to pass into said chamber through said passage and ports.

1,451,611. PRINTING VULCANIZER. CHARLES B. HAUGHEY, Council Bluffs, Iowa, assignor of one-half to Orin R. Edwards, Davenport, Iowa. Filed Dec. 30, 1921. Serial No. 525,974. 3 Claims. (Cl. 18—18.)



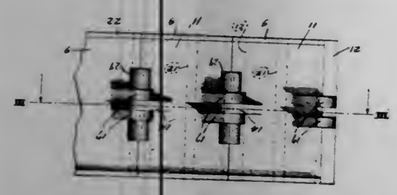
1. A printing vulcanizer including a vulcanizing block having interior heating means and provided at the inner side with exterior printing means adapted to print on the exterior of a finished tire, and a clamp extending beneath and supporting the vulcanizing block in position to be applied to a tire and receiving the vulcanizing block and provided at the outer side of the block with adjusting means and having an engaging portion projecting beyond the inner side of the block and cooperating with the adjusting means for holding an article in contact with the printing means.

1,451,612. ATTACHING MEANS FOR SEPARABLE FASTENER ELEMENTS. BEN Z. HAUSNER, New York, N. Y. Filed Oct. 19, 1921. Serial No. 508,726. 5 Claims. (Cl. 229—7.)



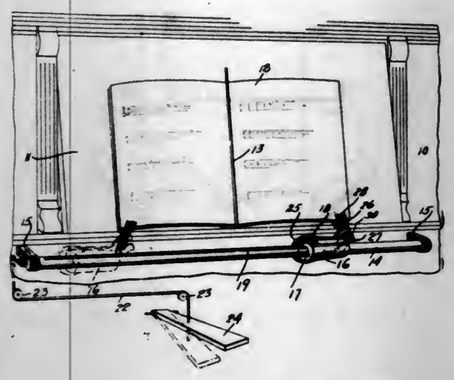
2. The combination with a pair of flexible members, including opposed gummed surfaces having registering openings therein, of a snap fastener element, and means permanently associated therewith sealed between the gummed surfaces, said fastener element extending through one of the openings.

1,451,613. TRACTOR. FRANK HODGKISS, Oakland, Calif. Original application filed May 10, 1921, Serial No. 468,338. Divided and this application filed Dec. 21, 1921. Serial No. 525,972. 3 Claims. (Cl. 74—44.)



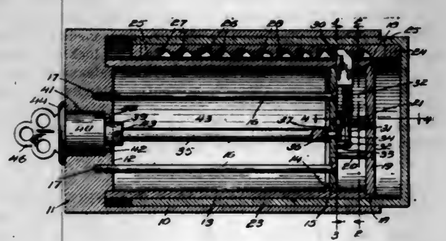
1. A hinge engagement between two links of the character described, comprising a central lug rising from one of the links and a pair of spaced lugs rising from the other adapted to receive the single lug between the same, a pin having a central sleeve thereon engaging the three lugs and extending beyond the same at either end, with collars at either end of larger diameter than the sleeve for holding the lugs in engagement with the sleeve.

1,451,614. LEAF TURNER. DAVID HOECKE, Greenwich, Conn. Filed Nov. 2, 1921. Serial No. 512,240. 3 Claims. (Cl. 84—521.)



1. In a leaf turning device, the combination with a leaf supporting means, of a member mounted for transverse sliding movement with respect to the leaves, manual means for effecting the sliding movement of the member in one direction, means for returning said member in the opposite direction to normal position, and interengageable magnetic means provided respectively on the transverse sliding member and the leaves for coupling the leaves for movement with the sliding member when manually actuated.

1,451,615. TIRE-CARRIER LOCK. WILLIAM J. HUNT, St. Joseph, Mo. Filed May 27, 1921. Serial No. 472,998. 4 Claims. (Cl. 70—14.)

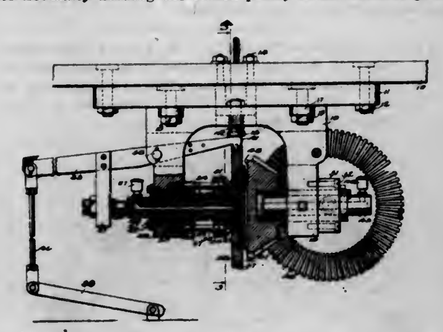


1. In a locking device as characterized, a pair of cylindrical casings adapted for telescopic engagement with each other, a keeper device within the inner of said casings and coextensive therewith and having a plurality of keeper sockets spaced along the same, a latch bolt carried by the outer of said casings and adapted for selective engagement with the said keeper sockets, an actuating mechanism carried by the outer of said casings for said latch bolts, and means, carried by the outer of said casings for locking said actuating mechanism and said latch bolt in its inoperative position.

1,451,616. POWER-TRANSMISSION MECHANISM. JOSEPH IMPELLIZIERI, Brooklyn, N. Y. Filed Aug. 1, 1922. Serial No. 578,929. 8 Claims. (Cl. 192—17.)

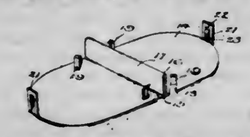
1. A power transmission mechanism of the class described, comprising a frame, an axle slidably mounted in the frame, means for holding the axle against rotation, a clutch pulley rotatably mounted on the end of the axle,

means provided in conjunction with the axle and frame for normally holding the clutch pulley in an inactive posi-



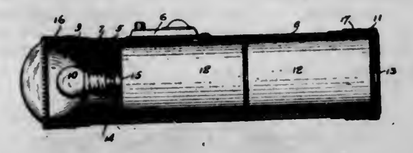
tion, and means mounted on the frame for moving the axle endwise to force the clutch pulley into an active position.

1,451,617. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Feb. 20, 1922, Serial No. 537,995. Divided and this application filed Nov. 7, 1922. Serial No. 599,608. 2 Claims. (Cl. 132—83.)



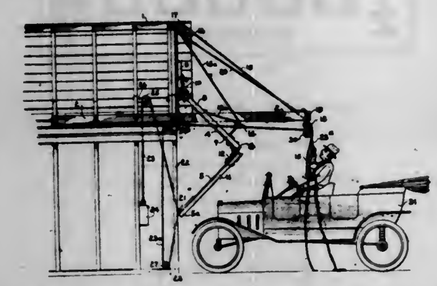
2. A vanity case having a constricted open side, said constricted open side forming an inwardly disposed shoulder, a removable bottom plate, straight resilient tongues projecting forwardly from said bottom plate, said tongues being of a length to terminate at and in engagement with the inwardly disposed shoulder, and resilient tongues struck from said straight tongues and positioned within the confines thereof.

1,451,618. FLASH LIGHT. HARRY M. KORETZKY, New York, N. Y. Filed June 27, 1921. Serial No. 480,597. 1 Claim. (Cl. 240—8.5.)



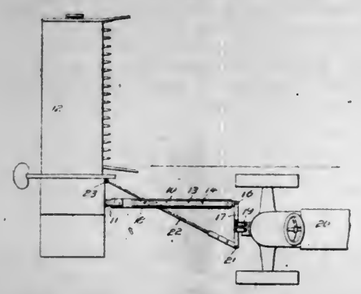
In a flashlight of the type including a combined battery case, light holder and handle, and of the type including a bulb in said holder and constituting said light at one end of the handle and a removable cap at the other end of the handle, and further of the type including a battery slidable in the handle between bulb and cap and an expansile coil spring in said handle immediately adjoining the battery, the combination of shock absorbing means between battery and bulb, said means comprising the interposition of such spring between bulb and battery, and means for precluding accidental lighting of the bulb by the battery, the means last mentioned including said spring and a circuit having therein bulb and battery and also having therein a plurality of make and break points one of which points is normally held open at an electrode of the battery by said spring, and a manually actuable switching device at the exterior of the handle and normally holding open the other of said points, there being provided coacting threads on said handle and cap for manual relative adjustment of handle and cap, all whereby said cap must be screwed up on the handle and also such switching device must be manually actuated in order to put the bulb in circuit with the battery.

1,451,619. FOLDING DOOR FOR GARAGES. SEPTIMUS LATRACE, Saskatoon, Canada. Filed Sept. 7, 1921. Serial No. 499,013. 4 Claims. (Cl. 20—20.)



3. A folding door for a garage, comprising a pair of door sections hingedly mounted upon each other, one of said sections being hingedly mounted on the front of the garage above the door opening, a counter-balance connected to the other door section, and means for raising and folding the door sections one above the other and above the door opening, the said door when in raised position having its sections so positioned that one of said sections is located directly beneath the other section with the upper section inclined downwardly away from the front of the garage to provide a sheltering means for the space in front of the door.

1,451,620. DRAFT ATTACHMENT. BERNT LIMOSETH, Westby, Wis. Filed Sept. 22, 1921. Serial No. 502,462. 1 Claim. (Cl. 280—33.5.)

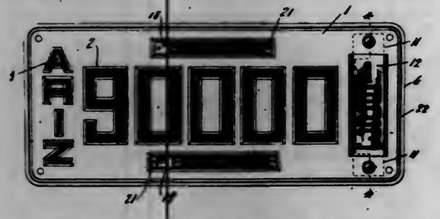


A draft equalizer comprising a main draft beam having a transverse intermediate slot and adapted to be attached at one end to the machine to be moved, a draw bar coupled at one end to the forward end of the beam and adapted to be connected intermediate the ends to the draft power, and a continuous pull member coupled at one end to the free end of the draw bar and passing through the intermediate slot of the beam and adapted to be attached at the other end to the machine to be moved and in spaced relation to the draft beam.

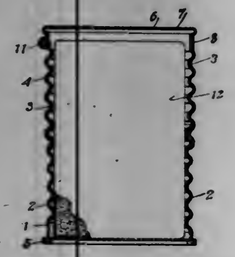
1,451,621. LICENSE PLATE. DONALD MCRUER and JAMES E. SELLERS, Phoenix, Ariz. Filed Apr. 3, 1922. Serial No. 549,275. 1 Claim. (Cl. 40—63.)

In combination, a license plate for motor vehicles having a rectangular depression therein disconnected from the plate at opposing ends so as to leave slots between the depression and the plate, and a second plate having a

raised central portion fitting in said depression and end portions adapted to be slipped through said slots underneath the license plate and to be detachably secured thereto so as to present an upper surface flush with the surface of the license plate.



1,451,622. SIZE-REDUCIBLE BOX. HOWARD F. MAPSTON, Dayton, Ohio. Filed Nov. 18, 1921. Serial No. 516,189. 2 Claims. (Cl. 220—8.)



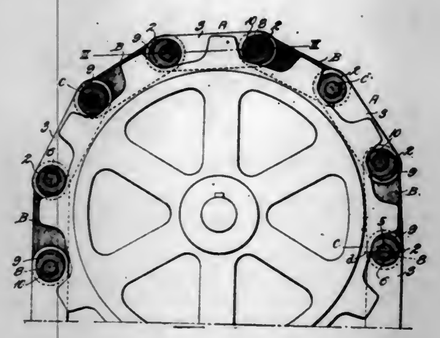
1. A size-reducible tobacco box of such dimensions as to adapt it to be carried in the pocket comprising two sections, one section closed at one end and the other section having a removable top, one section of the box being rotatable on the other and screw-thread like devices connecting the two sections whereby as the material in the carton is used the size of the box may be reduced by rotating one section of the box on the other.

1,451,623. SOLDERING IRON. EDGAR MILLNER, St. Louis, Mo. Filed May 3, 1920. Serial No. 378,511. 24 Claims. (Cl. 219—26.)



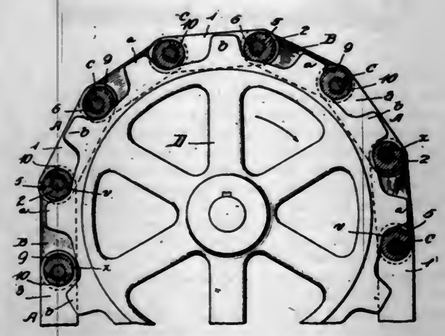
1. A heating tool including, in combination, an inner metallic body-section provided with insulated terminals, a heating element fitting upon said section and adapted for electrical connection with the terminals, and an outer metallic body-section enclosing both the inner-section, the heating-element, and the terminals.

1,451,624. SPROCKET CHAIN. WILLIAM L. MONTAGUE and BRINTON WELSER, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 24, 1921. Serial No. 502,871. 3 Claims. (Cl. 74—32.)



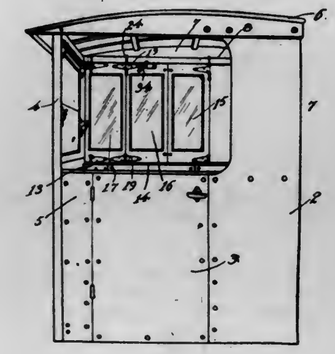
1. A sprocket chain comprising links having tubular cross bars and connecting cylindrical pintles which pass through the cross bars, the openings through the cross bars having working surfaces shaped to fit the pintles, on the sides toward the ends of the link, and there being on the opposite sides of the pintles cavities adapted to receive grease, the grease cavity in an end bar being bounded on one side by a segment of the surface of the pintle and on the opposite side by an inner wall of the end bar of the link concentric with and offset from the surface of the pintle, and at its ends by inner walls of the end bar, which walls converge at such angles that if projected they would meet, on a line crossing the pintle diametrically, on that side of the link on which is the bearing surface for the pintle, whereby the grease cavity is extended beyond a diametrical line crossing the pintle at right angles to the diametrical line first mentioned, substantially as and for the purposes set forth.

1,451,625. SPROCKET CHAIN. WILLIAM L. MONTAGUE and GEORGE BRINTON WELSER, Jr., Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Sept. 24, 1921, Serial No. 502,871. Divided and this application filed Jan. 29, 1923. Serial No. 615,722. 4 Claims. (Cl. 74—32.)



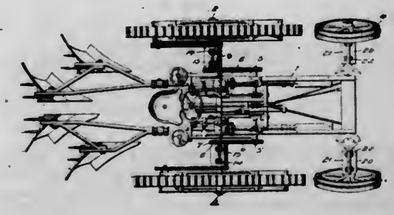
1. A sprocket chain comprising links having tubular cross bars and pintles uniting the links and passing through the cross bars, the walls of the tubular cross bars being thickened toward the ends of the links so as to be engaged by the driving sprockets with which the chain engages, thereby advancing the links and tending to prevent destructive wear between the sprocket teeth and chain as the latter seats itself upon and leaves the wheel.

1,451,626. VEHICLE BODY AND THE LIKE. JAMES MORRISON, Cincinnati, Ohio, assignor to The Highland Body Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 25, 1921. Serial No. 517,487. 18 Claims. (Cl. 296—45.)



1. In a vehicle window device, the combination with a rectilinear support, of a window in a plurality of articulated sections, a part at least of said sections adapted to fold together into side by side relation, all of the sections being mounted on the support so as to slide thereon, and to permit the said folding, said support being longer than the total length of the sections, whereby the entire window when in fully aligned relation may be slid as a unit on the support.

1,451,627. TRACTOR SPREADER. SWENEY MUNSON, Fowler, Colo. Original application filed May 13, 1920, Serial No. 381,065. Divided and this application filed Jan. 11, 1921. Serial No. 436,548. 3 Claims. (Cl. 180—70.)



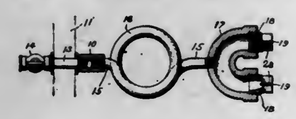
1. In a tractor, an axle, a crawler supporting the axle and adjustable inwardly and outwardly thereon, a driving member rotatable on the axle, a driven member rotatable on the axle, said two members having means for being interlocked to each other, means for driving the driving member, means for driving the crawler from the driven member, and spacing means arranged for detachment and provided with means for establishing driving connections between the said members when the latter are spaced apart, substantially as set forth.

1,451,628. FIGURE TOY. REUBEN NAKIAN, West Hoboken, N. J. Filed Oct. 11, 1921. Serial No. 507,049. 4 Claims. (Cl. 46—40.)



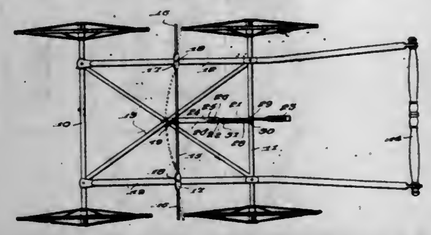
2. As a new article of manufacture, a toy broom or brush comprising bristles simulating in the aggregate a skirt, a support for said bristles simulating the body of a figure provided with arms, a handle extending upwardly from the bristle support, and a head for said body rotatably mounted upon the handle and resting upon the upper end of the body.

1,451,629. COMBUSTION-CHAMBER CARBURETOR. ABRAHAM P. PELSER, Greenfield, Mass. Filed Mar. 24, 1922. Serial No. 546,233. 2 Claims. (Cl. 110—175.)



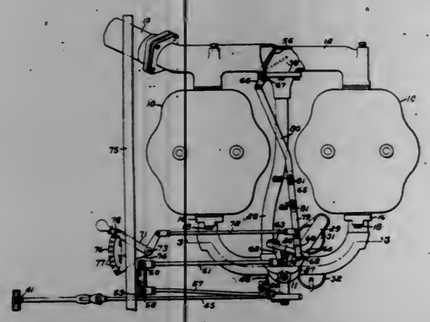
1. A device of the class described comprising a section of piping adapted to operate through the fuel door of a combustion chamber, a laterally branching tubular member connected to the inner end of the piping, a nozzle device terminating each branch and each comprising a tubular plug closed at the outer end except for a plurality of transversely directed intersecting clefts, and a baffle member at the intersection of the clefts, whereby the air passing through the plug will be directed laterally through the clefts.

1,451,630. VEHICLE BRAKE. HENRY ALPHONSO PERKINS, East Templeton, Mass. Filed Nov. 18, 1920. Serial No. 424,891. 13 Claims. (Cl. 188—20.)



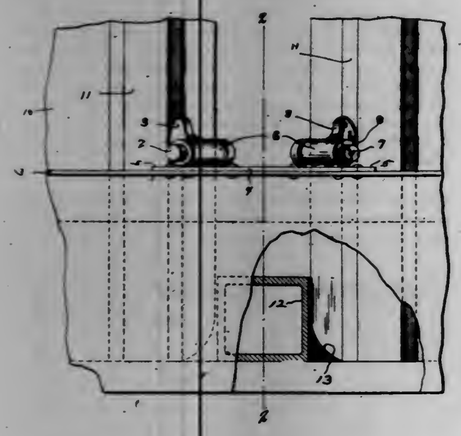
1. In a vehicle of the class described, a brake, means for pressing the same against the wheel, and a single depressible treadle for actuating and releasing said means by successive movements in the same direction.

1,451,631. FUEL SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ADOLPH ROSNER, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed June 24, 1918. Serial No. 241,721. 9 Claims. (Cl. 123—122.)



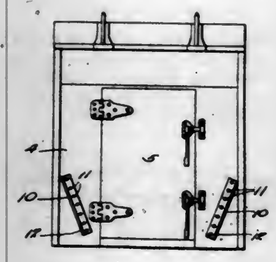
1. In a fuel system for internal combustion engines, the combination of engine heated fuel-supply means, heat-controlling means, fuel-supply controlling means, means interconnecting both controlling means to coordinate their operation, said interconnecting means including a lever and a member actuated thereby, and means available during the operation of the engine to move said member toward and from the fulcrum of said lever to vary the effect of said heat controlling means.

1,451,632. COMPARTMENT FREIGHT CAR. ALFRED H. SMITH, Chappaqua, N. Y. Filed Dec. 21, 1921. Serial No. 524,032. 6 Claims. (Cl. 105—366.)



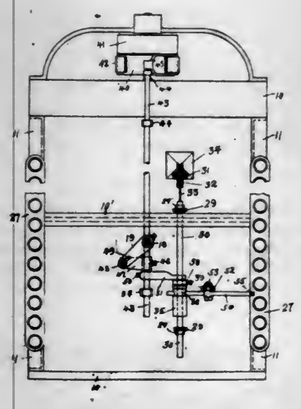
1. The combination with a carrier having vertically disposed bulkheads adapted to receive containers between them, of gravity cam abutments adapted to engage the containers to space them and hold them from shifting or rocking on the carrier.

1,451,633. FREIGHT CAR. ALFRED H. SMITH, Chappaqua, N. Y. Filed Mar. 11, 1922. Serial No. 542,994. 7 Claims. (Cl. 105—366.)



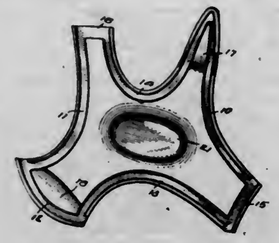
4. A carrier having walls and abutments bodily secured to said walls at an angle to the vertical.

1,451,634. STOP MOTION FOR SPINNING FRAMES. TILDEN BURT STEVENSON, Caroleen, N. C. Filed Oct. 28, 1921. Serial No. 511,111. 2 Claims. (Cl. 192—143.)



1. A belt shifting device comprising a shipper rod adapted to co-act with a drive belt to shift it to and from a driven element, a shiftable element, a slidably supported guide rod provided with a stop collar, an arm carried by the shipper rod and extending into the path of the stop collar, a trip block slidably mounted on said guide rod, counter-balanced means for yieldably holding the trip block in contact with said stop collar, and a lever pivotally supported intermediate its ends and having one end extending into the path of said shiftable element and its other end extending into the path of said trip block and adapted when actuated by said shiftable element to release said counter-balanced means causing thereby the shifting of said guide rod whereby said collar will shift said arm to move the shipper rod to shift the belt from the driven element.

1,451,635. LAST FOR SHOES AND SANDALS. JOSEPH THOMAS, Aberdeen, Wash. Filed Aug. 22, 1922. Serial No. 583,537. 10 Claims. (Cl. 12—123.)



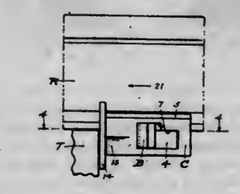
1. A last adapted to be positioned against the exterior of a shoe or sandal and having means to receive an edge portion of the sole to enable the sole to be fastened with nails while disposed against the last.

1,451,636. ELECTRIC HEATER. RICHARD ULLRICH, Wels, Austria. Filed Sept. 12, 1922. Serial No. 587,827. 6 Claims. (Cl. 219—41.)



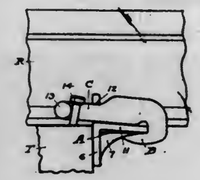
1. An electric immersion fluid heating device comprising a resistance element, a casing therefor, a buoyancy operated circuit breaker, a casing for the circuit breaker, the last said casing being buoyancy operated, and operated solely by its own weight, when in upright position, to break the circuit.

1,451,637. ANTICREEPER FOR RAILWAY RAILS. WILLIAM S. WESTON, Dallas, Tex. Filed July 3, 1922. Serial No. 572,477. 10 Claims. (Cl. 238—329.)



10. A two-piece rail anchor comprising a transverse bar arranged to extend beneath the rail and engage one of the rail base flanges and a tie abutting member arranged to engage the other rail base flange and adapted to be sprung into interlocking engagement with said bar.

1,451,638. ANTICREEPER FOR RAILWAY RAILS. WILLIAM S. WESTON, Dallas, Tex. Filed July 3, 1922. Serial No. 572,478. 5 Claims. (Cl. 238—329.)



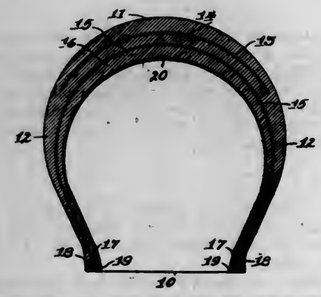
1. An anti-creeper for railway rails comprising two parts, a tie abutting jaw part mounted on one rail base flange, and a V-form spring clamp part mounted with one arm of the V located transversely beneath the rail with shoulders bearing against opposite rail base edges and having its free end hooked over the opposite rail base flange and with the other arm of the V located longitudinally of the rail and interlocked with the said jaw part against relative movement in all directions.

1,451,639. CLAMP FOR ROOFS. CHARLES COURTNEY WHITE, Ocean Springs, Miss., assignor of one-third to Louis Braun, Biloxi, Miss. Filed Dec. 31, 1921. Serial No. 526,093. 6 Claims. (Cl. 108—33.)



1. A roof clamp of U-shape presenting upper and lower members and adapted to receive between the two an edge portion of the roof element, the upper member extending beyond the lower member for more effectively clamping the upper surface of said roof element.

1,451,640. PNEUMATIC TIRE. ELMER H. WICKERT, St. Paul, Minn. Filed July 13, 1921. Serial No. 484,418. 3 Claims. (Cl. 152—18.)



2. In a pneumatic tire casing having a tread on its outer periphery and being open at its inner periphery, annular beads at the lateral edges of the inner periphery, annular cords within said beads, a lining on the inner surface of the tire, a plurality of flexible and spaced

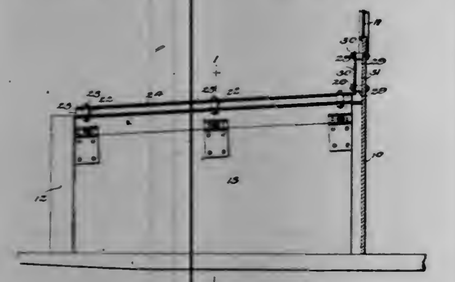
wires between said tread and lining, each of said wires extending in an arc from one of said cords to the other, and relatively short links joining adjacent wires, said links being spaced apart to form with said wires a foraminous reinforcement.

1,451,641. HAND LOOM WITH DEVICE FOR READING WEAVING DRAWINGS. GERTRUD WITTE, Berne, Switzerland. Filed Aug. 29, 1921. Serial No. 496,465. 1 Claim. (Cl. 139—18.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A hand loom for weaving patterns according to a weaving drawing comprising a plate for holding a drawing, a device for stretching the warp-thread across the plate close to the drawing, the plate being provided with two rows of needle holes, two rows of needles passing through two rows of needle holes in the said plate, eyes in the said needles for the warp-threads, and a holding member for holding the said needles in an upright position, the plate being adapted to be suspended by the threads passing through said needles and to be tilted to and fro on the two rows of needles, whereby first one row of needles and then the other is caused to protrude more than usual through the said plate.

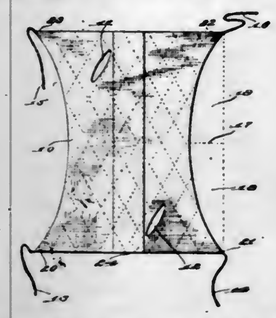
1,451,642. AUTOMOBILE HOOD. JOHN MATTHEW WOLL, Kittanning, Pa. Filed July 20, 1922. Serial No. 576,316. 2 Claims. (Cl. 180—69.)



1. In combination with an automobile hood construction embodying a double upper wall structure defining an air circulation space and a plate secured to and spaced from the front wall of the automobile body defining an air circulation space which communicates with the air circulation space defined by the double upper wall structure of the hood.

1,451,643. DIAPER, CATAMENIAL BANDAGE, AND THE LIKE. REGINA J. WOODY, Chestnut Hill, Mass. Filed Oct. 22, 1921. Serial No. 509,638. 3 Claims. (Cl. 128—284.)

1. An article of the class described comprising a quadrangular sheet of absorbent material having an envelope of gauze, said sheet and envelope each having its ends substantially parallel and its transverse dimension a minimum substantially at its central transverse axis, and each having two slots located respectively near the diagonally opposite corners thereof, each slot being arranged to receive the nearer corner of the sheet



on the opposite side of the transverse axis thereof, and fastening devices secured to the corners of said sheet.

1,451,644. AIR-BRAKE TEST VALVE. CHARLES E. ZACHARY, Atlanta, Ga. Filed Sept. 30, 1919. Serial No. 327,360. 4 Claims. (Cl. 137—77.)



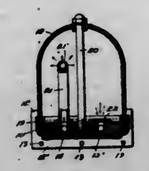
1. The method herein described of detecting leakage in an air pipe line, consisting in automatically closing and opening, in rapid succession, the section of the pipe in which there is a reduction of pressure due to leakage.

1,451,645. CORD TIRE. CHARLES L. ARCHER, Des Moines, Iowa. Filed Feb. 4, 1922, Serial No. 534,091. Renewed Mar. 10, 1923. 1 Claim. (Cl. 152—13.)



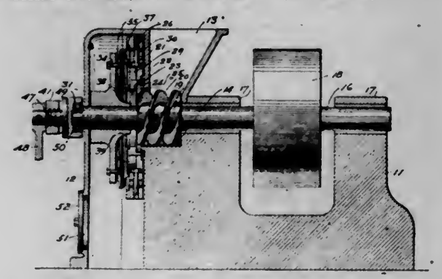
In a tire of the character describe, the combination of a first ply of cords having converging end portions terminating in outwardly extending portions, a second ply of cords positioned on said first ply of cords, said second ply of cords having parallel straight end portions engaging the tips of said outwardly extending portions of said first ply, thus forming inclosed looped portions, a third ply of cords positioned upon said second ply and having parallel straight end portions bearing upon the parallel straight end portions of the second ply, the end portions of the third ply terminating in outwardly extending portions, a fourth ply of cords positioned upon said third ply, said fourth ply of cords having parallel straight end portions engaging the tip ends of the outwardly extending portions of said third ply, thereby forming inclosed looped portions adjacent the first mentioned looped portions, a fifth ply of cords fitting upon the fourth ply and having parallel straight end portions fitting upon the parallel straight end portions of the fourth ply and terminating in outwardly extending portions, a sixth ply of cords positioned upon the fifth ply and having parallel straight end portions engaging the tip ends of the outwardly extending portions of the fifth ply, thus forming inclosed looped portions adjacent the second mentioned looped portions, said last-mentioned parallel straight end portions of the sixth ply terminating in elongated inwardly extending projections fitting upon the outwardly extending portions of the first, third, and fifth plies, and filling means carried within said looped portions, thus forming reinforced beads upon said tire, as and for the purposes set forth.

1,451,646. AUTOMOBILE DASH ATTACHMENT. EDWARD R. BITTLER, Schuylkill Haven, Pa. Filed June 13, 1922. Serial No. 568,091. 1 Claim. (Cl. 116—117.)



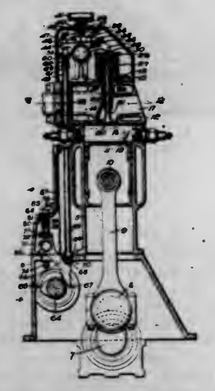
A device for the purpose set forth comprising a base having a forwardly projecting integral supporting extension provided with inlet and discharge bores opening at the upper face of the base at each side of the center thereof, a hollow transparent body mounted on the base and forming in connection with the latter a fuel receiving chamber, means extended through the chamber and engaging with said body and base for connecting them together, a fuel discharging element within said chamber and having one end opening thereinto and its other end registering with the inlet bore, and a filtering element associated with said outlet bore.

1,451,647. GRINDING MACHINE. HARRY BUCKLEY and RAY BUCKLEY, Louisville, Ky. Filed Apr. 8, 1921. Serial No. 459,506. 2 Claims. (Cl. 83—8.)



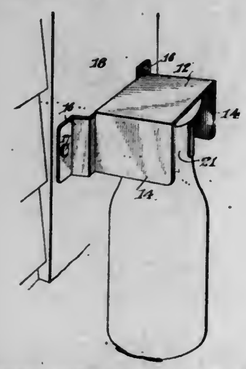
1. In a grinding machine, a housing, a conveyor chute having a delivery opening at one end, a grinder plate adjacent said delivery opening and having an opening centrally disposed and registering with the delivery opening, a screw arranged to rotate in said chute and having its threaded ends at the delivery opening evenly spaced whereby to deliver material to the plate, means supporting the plate and having an inner flange opening forming a conveyor tube from the end of said screw to the opening in the plate, said supporting means comprising an outer ring pivoted at diametrically opposite points to the housing, an inner gimbal ring pivoted at diametrically opposite points at right angles to the first mentioned pivoted points of the outer ring, said inner ring comprising an outer peripheral part whereto the pivots are connected, and an inner peripheral part of substantially the same diameter as the opening in the grinder plate whereby said inner part forms a continuation of said opening, a second grinder plate cooperating with the first grinder plate, and means to rotate the screw and second grinder plate.

1,451,648. INTERNAL-COMBUSTION ENGINE. HAROLD D. CHURCH, Fairfield, Conn., assignor to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed June 5, 1920. Serial No. 386,676. 7 Claims. (Cl. 123—90.)



1. In an internal combustion engine, the combination of a cylinder having inlet and exhaust ports in its head, puppet valves controlling said ports, respectively, and having stems extending in the same general direction as the axis of said cylinder, and valve-actuating mechanism including rocking levers, one for each valve, and means for utilizing the engine's exhaust automatically to cause the maintenance of a substantially constant predetermined relation between said levers and their respective stems despite longitudinal expansion and contraction of said cylinder.

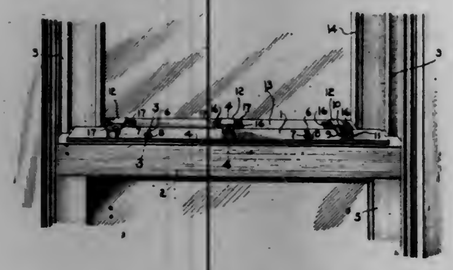
1,451,649. BOTTLE HOLDER. CHARLES COHEN, Bridgeport, Conn. Filed Dec. 21, 1921. Serial No. 524,048. 1 Claim. (Cl. 232—41.)



A bottle holder formed from a section of sheet material with spaced clefts leading from one edge, the material between the clefts being bent at rightangles to the body of the section and the material externally of the lines of the clefts bent at rightangles to the body of the section,

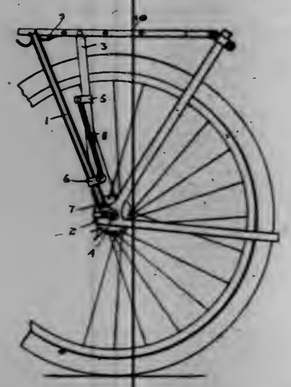
the material externally of the clefts being further bent outwardly to form attaching ears, and a bottle clasp device connected to the section and adapted to engage the neck of a bottle and hold the same with its mouth portion beneath the body of the section and protected thereby.

1,451,650. COMBINED WEATHER STRIP AND SASH FASTENER. COLONEL COONEY, Ada, Ohio. Filed Apr. 6, 1922. Serial No. 550,035. 2 Claims. (Cl. 20—68.)



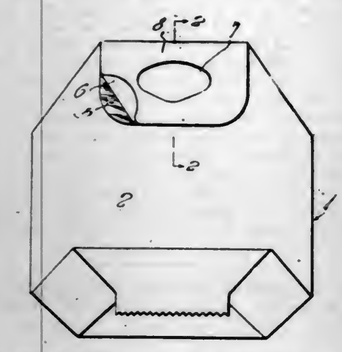
1. A combined sash fastener and weather strip comprising a plate adapted to be mounted on the upper face of the meeting rail of a lower sash so as to slide transversely and rest upon the upper face of the meeting rail of the upper sash, means for preventing the upward movement of the plate, and for slidably retaining the same on the first-mentioned meeting rail, tapered tongues projecting outwardly from the outer edge of the plate, and loop-shaped keepers attachable to the upper face of the outer meeting rail of the upper sash and in alinement with said tongues and adapted to receive the same, when the plate is moved outwardly and across the gap between said meeting rails, to hold the sashes from movement.

1,451,651. BICYCLE STAND AND CARRIER. GEORGE FRANCIS CRYSDALE, Toronto, Ontario, Canada. Filed Aug. 1, 1921. Serial No. 488,827. 1 Claim. (Cl. 208—75.)



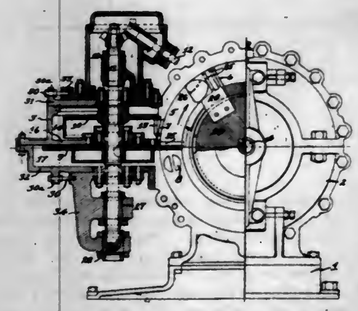
In a bicycle stand and carrier, the combination with the bicycle frame, of a carrier rigidly connected to the frame, a pair of uprights rigidly secured to the carrier and connected to the axle of the bicycle, a U-shaped stand pivoted to said uprights above and to the rear of the axle, and a coil spring having one end connected to said uprights and its other end connected to the stand.

1,451,652. HANDLE CONSTRUCTION FOR PAPER BAGS. GEORGE W. EISENHART, Binghamton, N. Y., assignor to Mid-East Specialty Company, Inc., Binghamton, N. Y., a Corporation of New York. Filed Aug. 18, 1921. Serial No. 493,328. 1 Claim. (Cl. 229—54.)



In a handle construction, the combination of a paper bag having its material at its upper end folded inwardly and downwardly upon itself forming a narrow strip of double thickness of material extending entirely around its mouth, substantially rectangular sheets of heavy cardboard folded upon themselves midway of their ends into inverted U-shape and arranged in straddling relation around the upper edges of the opposite side walls of the bag, the inner and outer portions of said folded sheets being disposed respectively alongside of the inner and outer surfaces of the opposite side walls of the outer surfaces of the opposite side walls of the bag and being glued thereto, the opposite side walls of the bag and the inner and outer portions of said folded sheets being provided below the adjacent portions of the aforesaid strip with alined openings forming hand holes and handle bars above said hand holes at the upper ends of said side walls, the grain of the cardboard of said sheets extending transversely of the bag and parallel to the upper edges of its opposite side walls and therefore longitudinally of said handle bars so as to tend to prevent the latter from tearing transversely, the upper edges of said openings being curved and joining their end edges on curved lines so as to increase the width of said handle bars from their middle portions to their ends and so as to avoid sharp corners at the ends of said handle bars, whereby to tend to prevent the latter from tearing transversely.

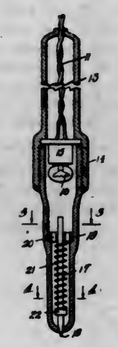
1,451,653. ROTARY STEAM ENGINE. ELOV ERICSSON, St. Paul, Minn. Filed Dec. 16, 1920. Serial No. 431,234. 7 Claims. (Cl. 121—71.)



1. In an engine, a rotor, a piston fixed in the periphery of said rotor, an annular cylinder in which said piston is adapted to travel, said cylinder being provided with steam and exhaust ports, a steam chest mounted adjacent to

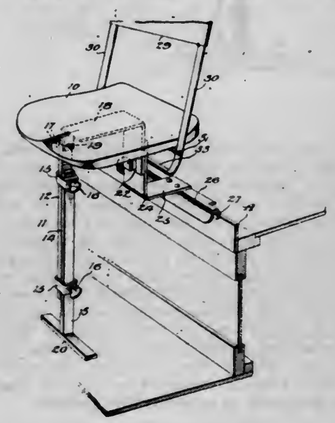
said steam port, a valve shaft extending through said chest, a valve and an abutment disc mounted on said shaft, said disc being separated from said valve by a steam tight partition and means for driving the valve shaft from the rotor.

1,451,654. MARKING DEVICE. MARIE LOUIS GARCIN, New York, N. Y. Filed Aug. 13, 1920. Serial No. 403,274. 7 Claims. (Cl. 95—1.1.)



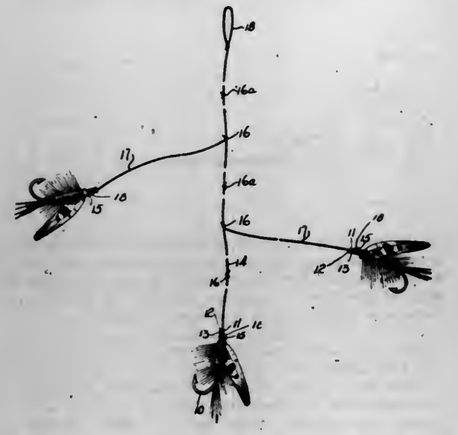
1. A photographic appliance including a casing formed with an opening in its end portion, a source of illumination within said casing, means for normally closing said opening and extending beyond the same, said means being adapted to uncover said opening when that portion of the same extending beyond the casing is directed against a surface.

1,451,655. AUXILIARY SEAT FOR AUTOMOBILES. SULLIVAN E. GILLEY, New York, N. Y. Filed June 13, 1922. Serial No. 567,890. 2 Claims. (Cl. 155—11.)



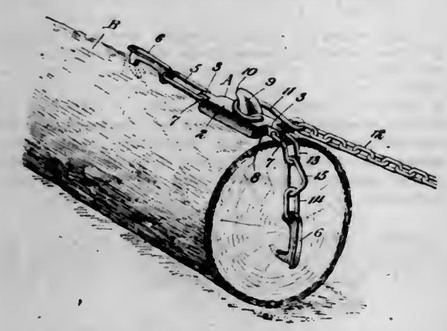
1. An auxiliary seat for automobiles comprising a seat bottom having an extensible supporting leg pivoted to and depending from its under forward end for engagement with the floor of the vehicle, a vertically adjustable supporting bracket depending from the under side of the seat bottom and including a rearwardly projecting portion, a laterally disposed bearing element carried by the rear end of the rearwardly projecting portion of the bracket, and means on said bearing element adapted to engage over an upstanding flange at the front of a permanent seat structure to afford means for supporting the rear end of the auxiliary seat from the permanent seat and above the plane of the latter.

1,451,656. FLY HOOK AND LEADER. PETER F. HALFERTY, Grayland, Wash. Filed Jan. 20, 1922. Serial No. 530,623. 3 Claims. (Cl. 43—28.)



1. A leader having a knot at its lower end, and a separate length of material incorporated in said knot, said separate length of material and the said leader each having a plain knot and return bent at said plain knots, the leader and its returned portion both passing through the plain knot of the separate length and the returned portions of the separate length being passed through the plain knot of the leader, said plain knots being brought together into close relation.

1,451,657. JAY BAR. JESSE A. L. HEFNER, Danese, W. Va. Filed Jan. 31, 1921. Serial No. 441,306. 3 Claims. (Cl. 294—78.)

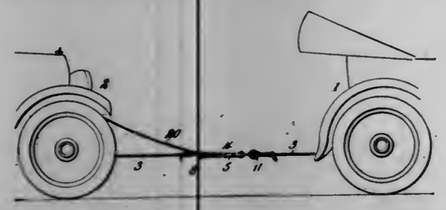


1. A jay bar for use in logging, comprising an elongated plate-like structure with a laterally rounded top surface and a transversely curved cylindrical under surface adapted to fit the side of a log, and a horn rising from an intermediate point of the upper surface for receiving a chain hook, the jay bar being provided with ears at each end in the line of draft with each ear having a downwardly-inclined tapered extremity terminating in a sharp point adapted to bite into the log.

1,451,658. RELEASE DEVICE FOR TOWING. KASPAR FRANK HENNEKIN, Seaside, Calif. Filed Mar. 31, 1921. Serial No. 457,285. 2 Claims. (Cl. 280—33.15.)

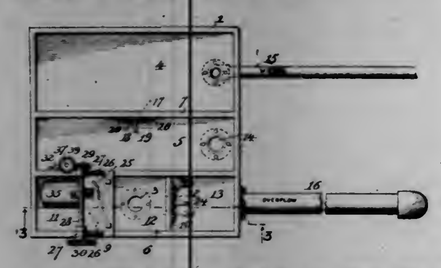
1. A towing device for automobiles, comprising a frame composed of spaced side members laterally inclined towards each other to form a substantially flat frame having a narrow and a wide end disposed oppo-

site each other, transverse bars joining the side members at spaced points, said frame terminating at its narrow end in a rope-receiving eye, arcuate-shaped jaws pivoted intermediate their ends at the corners of the wide end



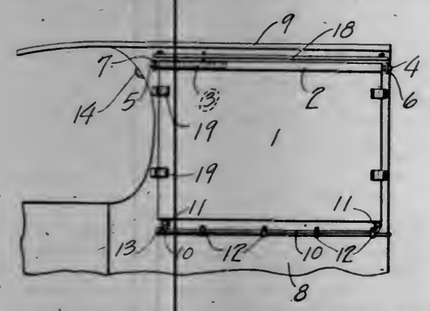
of the frame, a spring controlled wedge block engaging between the inner ends of the pivoted jaws and slidably mounted in said bars and adapted to lock the outer free ends of the jaws in abutting relation for retaining the loops of a rope attached to a towing machine.

1,451,659. AUTOMATIC STOCK REGULATOR FOR PAPER-MAKING MACHINES. RUSSEL HOCKMAN, Lock Haven, Pa., assignor of one-third to Harry H. Wilson and one-third to Ellis B. Shaffer, both of Lock Haven, Pa. Filed Sept. 3, 1920. Serial No. 407,856. 7 Claims. (Cl. 92—46.)



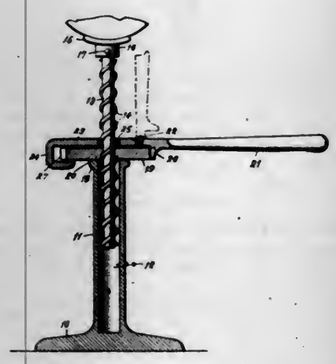
1. An automatic stock regulator for paper making machines, comprising a receptacle for receiving the stock and delivering it to the paper making machine, said receptacle having compartments, one into which the stock is delivered, another into which water is delivered, and another intermediate of the first two compartments and constituting a mixing and delivering chamber, and means for controlling the access of water and of stock to the mixing compartment from the other two compartments.

1,451,660. CURTAIN MOUNTING FOR TRUCKS. EDWARD J. HYLAND, Mount Morris, Ill. Filed Nov. 19, 1921. Serial No. 516,454. 1 Claim. (Cl. 296—143.)



Curtain mountings for cage trucks, comprising spring-controlled roller shades at the outer sides and back of the truck and adapted to draw down outside; guide fingers outwardly on the frame of the truck and extended loosely over the vertical edges of the shades; screw-eyes mounted outwardly of the truck along the lower horizontal edges thereof; a tube across the floor inside the front of the truck; a hook at one side inside the top of the truck at the hand of the driver; an opening through each side of the truck at the front end thereof; and cables attached to the lower edges of the shades, and extended through the said screw-eyes, forwardly around the outer sides of the truck and through the said openings at the front, the cable ends at the side under the said hook being extended straight up thereto and the cable ends from the opposite side being extended through the said tube and thence up to the said hook; and a ring secured to all of the said cable ends for releasably attaching to the said hook.

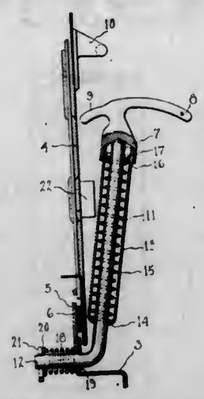
1,451,661. ELEVATING JACK. JESSE G. CROCKETT, Winnebago, Nebr., assignor to Sloan-Crockett Co., Sioux City, Iowa. Filed Nov. 25, 1921. Serial No. 517,589. 2 Claims. (Cl. 254—98.)



1. A jack comprising a hollow vertical standard provided with a bearing surface at its upper open end, a horizontally disposed gear overhanging said open end of said standard and having a bearing on the said bearing surface thereof, said gear having a central threaded opening, a screw adjustable through the opening of said gear and having a load-rest at its upper end beyond the gear, a bracket disposed crosswise of said gear and having a central opening for the passage of the said screw therethrough, said bracket having one end hooking over the gear to prevent vertical displacement of the bracket and an operating handle having a dog engageable with the gear for turning same to adjust the screw, said handle being hingedly connected to the said bracket for swinging movement to an inoperative position.

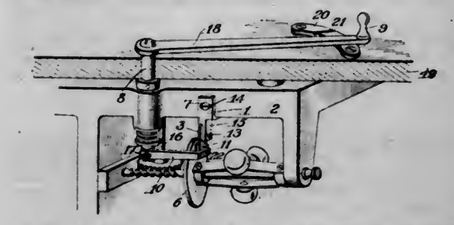
1,451,662. FASTENING DEVICE FOR MOTOR-VEHICLE HOODS. KINGSTON FORBES, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 13, 1919. Serial No. 303,941. 7 Claims. (Cl. 292—114.)

6. In a hood door fastening device of the class described, a spring operated latch member having a hook adapted to engage an element carried by the door to thereby hold the same in a closed condition; a suitable support located adjacent the free edge of said door; an oscillating member supported by said support and whereby said latch member is carried, and which oscillating member is movable transverse to said support; a spring acting upon said oscillating member to move the same as aforesaid, to thereby force the free edge of the



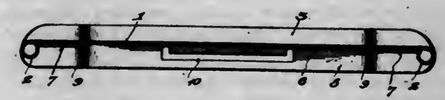
door against a fixed stop; and an abutment through which the force exerted by said spring is transmitted to said door.

1,451,663. SPEED REGULATOR FOR PHONOGRAPHS. EARNEST W. LADD, New York, N. Y., assignor of one-half to Charles F. Herrmann, New York, N. Y. Filed Nov. 30, 1921. Serial No. 518,767. 4 Claims. (Cl. 188—187.)



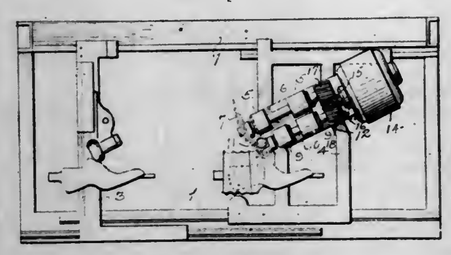
2. In a speed regulator for phonographs, in combination with a phonograph motor embodying a friction disc, a friction device adapted to act on said disc, said friction device comprising a bracket member, bifurcated arms extending therefrom, one of said arms being rigid and the other of said arms being resilient, adjusting means carried by said rigid member to control the adjustment of the resilient member, and adjusting means carried by said resilient member adapted to control the adjustment thereof.

1,451,664. WATERBOARD FOR WRINGING MACHINES. RUDOLF A. KOWALSKY, Woonsocket, R. I., assignor to American Wringer Company, Woonsocket, R. I. Filed June 11, 1921. Serial No. 476,881. 3 Claims. (Cl. 68—32.)



1. In a drain board, a sheet metal plate having its ends shaped to form tubes and having its side marginal portions extended upwardly and then downwardly and again extended upwardly to form parts of double thickness both above and below the body of the plate, the edges of the side marginal portions having integral ears secured to and beneath the body of the plate and the ends of the tubes abutting portions of the side marginal portions.

1,451,665. CUTTER-HEAD DRIVE FOR LAST LATHES. CLAUD L. LONG, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 27, 1920. Serial No. 426,755. 5 Claims. (Cl. 142—15.)

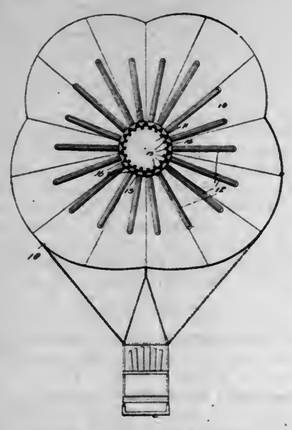


1. The combination with a pattern lathe including a reciprocatory carriage and a pair of rotary cutter heads mounted thereon, and operable simultaneously on a single piece of work, of a motor carried by the carriage and direct positive driving connections between the cutter heads and motor for driving said cutter heads simultaneously at predetermined relative rates of speed.

1,451,666. PRODUCTION OF ALPHA-NAPHTHYLAMINE. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 2, 1919. Serial No. 328,054. 2 Claims. (Cl. 230—130.5.)

1. The method of producing alpha-naphthylamine which comprises nitrating naphthalene, reducing the nitro compound with iron in the presence of an acid, adding solvent naphtha, filtering and distilling.

1,451,667. DIRIGIBLE AND THE LIKE. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 20, 1918. Serial No. 245,940. 14 Claims. (Cl. 244—3.)



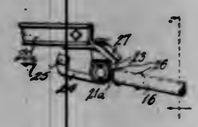
1. The combination with the envelope of an air craft having a nose portion, of a relatively rigid nose cup mounted in front of the nose portion of the envelope, and devices cooperating with the edge of the cup adapted to secure the cup upon the envelope in spaced relation with respect thereto.

1,451,668. SUSPENSION MEANS FOR VERTICALLY-SLIDING SASHES. HARRY E. CAMPBELL, New York, N. Y., assignor to Campbell Metal Window Corporation, Baltimore, Md., a Corporation of Maryland. Filed May 12, 1922. Serial No. 560,289. 5 Claims. (Cl. 189—72.)



1. Suspension means for vertically sliding sashes, comprising suspended counterweights for said sashes, hollow jambs receiving said counterweights, and, within said jambs and interposed between said counterweights, partitions, each hinged at one vertical edge.

1,451,669. MARKER DEVICE FOR PLANTERS. CHARLES H. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 27, 1920. Serial No. 426,768. 5 Claims. (Cl. 97—230.)

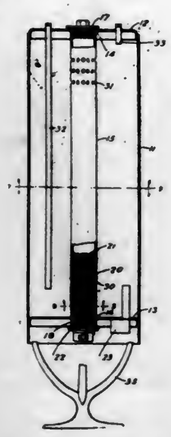


5. In a planting apparatus of the class described, the combination with the frame and the arm held to swing only in horizontal planes or vertical planes, of the coupling device having an element with a vertical pintle and a horizontal pintle, the vertical pintle pivotally connected to the frame, the arm being pivoted on the horizontal pintle, and a stationary cam element positioned at a point remote from the vertical pintle adapted to engage with the arm when the coupling device and the arm are swung about the vertical pintle.

1,451,670. ANTISEPTIC AND INSECTICIDAL SOAP OR COMPOSITION. ROBERT MACPHERSON, Worthing, and WILLIAM E. HEYS, Bushey, England. Filed Jan. 16, 1923. Serial No. 613,060. 3 Claims. (Cl. 87—5.)

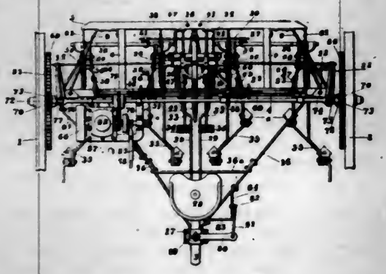
1. A saponaceous antiseptic and insecticidal composition comprising soap, a fixed alkali benzoate, and tar in the proportions of eighty parts of soap, ten parts of fixed alkali benzoate, and ten parts of tar.

1,451,671. ELECTRIC WATER HEATER. WILLIAM G. CARTTER, Monrovia, and FULLER W. THOMPSON, Arcadia, Calif. Filed Feb. 28, 1922. Serial No. 539,851. 4 Claims. (Cl. 219—39.)



1. In an electric water heater, the combination of a cylindrical outer shell; a top secured in said shell; a bottom secured in said shell; a tube situated in said shell, the upper end of said tube being secured to said top and the lower end of said tube being secured to said bottom; and an electric heating element inserted in said tube, said tube being perforated to provide an open communication between the interior of said tube and the water space around said tube and inside said shell.

1,451,672. MOTOR CULTIVATOR. THEOPHILUS BROWN, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 23, 1917, Serial No. 156,997. Renewed Sept. 2, 1922. Serial No. 586,024. 8 Claims. (Cl. 97—47.)



1. A power driven tillage implement comprising a frame, a pair of dirigible wheels supporting the front portion of the frame and adapted to be swung to guide the implement when in operation, a motor mounted on the frame, power transmitting connections between the motor and said wheels, tillage devices adapted to be moved laterally through the surface parts of the soil while they are advancing in operation and mounted at the front of the frame, and a steering wheel mounted at the rear of the frame, and operable independently of the said dirigible wheels.

Patents Nos. 1,451,673 to 1,452,485.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 309—No. 3. TUESDAY, APRIL 17, 1923. Price—$5 per year.

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Patents	813—No.	1,451,673 to No.	1,452,485, inclusive.
Total	1131		

ADVERSE DECISIONS IN INTERFERENCE.

Pat. 1,385,235, A. Westman, Poultry hover, has been involved in an interference and a decision rendered March 9, 1923, that said patentee was not the first inventor of the subject matter covered by claim 1 of said patent, and no appeal having been taken such decision has become final.

Pat. 1,353,506, S. B. Atwood, Bumper, has been involved in an interference and a decision rendered March 8, 1923, that said patentee was not the first inventor of the subject matter covered by claims 1, 2, and 3 of said patent, and no appeal having been taken such decision has become final.

Pat. 1,327,833, Lamkin and Berghaus, jr., Collapsible form, have been involved in an interference and a decision rendered March 10, 1923, that said patentees were not the first inventors of the subject matter covered by claims 1, 2, 3, 4, 19, 20, 21, 22, 23, 42, 50, and 56 of said patent, and no appeal having been taken such decision has become final.

Pat. 1,274,600, H. F. Richter, Label-affixing machine, has been involved in an interference and a decision rendered March 6, 1923, that said patentee was not the first inventor of the subject matter covered by claims 44, 45, 64, 65, and 69 of said patent, and no appeal having been taken such decision has become final.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mo.) Luten patents, No. 802,004 and 1,106,880, for false work for construction of bridge arches, not invalid on their face. *Luten* v. *Kansas City Bridge Co.*, 285 Fed. Rep., 840.

Interference Notice.

U. S. PATENT OFFICE, *Washington, Apr. 3, 1923.*

Rex Fluid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Rex Laboratories, of 2453 North Halsted Street, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 4, 1906, No. 59,083, to the Rex Fluid Company, Des Moines, Iowa, and a notice of such declaration sent by registered mail to said Rex Fluid Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rex Fluid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Rule 194.

All payments of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks should be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. Letters containing money should be registered. In no case should money be sent with models.

Suggestion for Use of Coupons.

The execution of orders for printed copies of U. S. patents, etc., will be considerably expedited if coupons are used. Such coupons may be purchased at the Patent Office in lots of 20 at $2.00 and 100 at $10.00.

Coupon orders do not have to be accompanied by letters of transmittal. They require nothing but the filling in of the patent number, the name of the inventor, the date of issue, and the name and address of the party desiring the service.

Condition of Applications Under Examination at Close of Business April 6, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 73,968; Trade-Mark Division, 4,064. Oldest new case, Apr. 6, 1922; oldest amended, Apr. 6, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	July 21	June 30	1,124
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	May 22	June 2	1,651
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Apr. 17	Apr. 12	1,735
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 19	*Jan. 18	1,414
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 4	June 26	1,322
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Aug. 5	Nov. 23	1,550
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	June 17	Sept. 11	2,453
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Sept. 20	Dec. 15	1,567
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 19	*Feb. 17	898
235	10. MITCHELL, T. H., Land Vehicles: Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 3	July 25	1,414
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Sept. 13	Sept. 23	1,037
322	12. PIERCE, P. P., Machine Elements	Sept. 15	Oct. 13	1,523
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 17	Dec. 21	1,366
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 3	*Mar. 5	1,155
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	May 26	July 17	2,023
112	16 BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Apr. 17	Apr. 15	2,540
307	17. RAFTER, G. S., Casting, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	May 5	Oct. 23	1,485
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	May 13	Apr. 21	2,051
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 14	Nov. 6	798
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Sept. 16	Sept. 18	1,917
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 4	Nov. 8	1,035
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 21	Sept. 23	653
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	Apr. 11	893
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 26	July 18	1,557
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 13	*Jan. 5	416
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	May 24	July 25	850
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 16	May 22	2,192
225	28. BENSON, A. R., Internal-Combustion Engines	June 14	Aug. 21	1,659
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	May 25	Dec. 18	702
152	30. SULLIVAN, M. E., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	July 17	Dec. 14	1,738
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 6	June 8	1,664
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	June 8	Aug. 28	1,285
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Apr. 6	Apr. 6	1,689
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Sept. 11	Oct. 26	740
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Nov. 23	*Jan. 27	1,049
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Sept. 16	Sept. 5	1,880
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 14	June 15	1,787
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	May 6	May 2	1,888
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 17	May 10	1,574
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	June 5	Sept. 11	2,211
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 18	July 22	958
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 8	May 11	1,814
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	June 16	July 1	1,327
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	June 7	Nov. 9	1,357
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 5	Aug. 14	1,526
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	June 10	June 24	1,470
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	June 20	Sept. 11	1,231
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 15	May 3	2,438
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	May 22	June 29	804
102	DESIGNS: C. O. MARKHAM (Acting)	June 22	Oct. 18	2,528
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Oct. 7	Dec. 30	4,017
	{Labels and Prints	*Mar. 31	*Mar. 30	47

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

TILDEN *v.* SNODGRASS.

Decided December 13, 1922.

1. INTERFERENCE—MOTIONS TO DISSOLVE BY EACH PARTY—DISSOLUTION WITHOUT HEARING—REJECTION OF CLAIMS.

Where each party files a motion to dissolve on the ground that the count is unpatentable in view of the prior art cited, the motions will not be set for argument, but will be treated as admissions of nonpatentability and abandonment of the invention of the count, the interference will be dissolved, and the Primary Examiner will reject the claims to each applicant on the estoppel contained in the motion papers.

MOTION to dissolve.

ELECTRIC WELDING MACHINE.

Messrs. Rector, Hibben, Davis & Macauley for Tilden.

Messrs. Gifford & Bull for Snodgrass.

FENNING, *Assistant Commissioner:*

Each party has filed a motion for dissolution of this interference on the ground that the count is unpatentable in view of prior art cited.

The motions will not be set down for argument, but will be treated as admissions of nonpatentability and abandonment of the invention of the count.

The interference is dissolved and the Primary Examiner instructed to reject the claim to both applicants on the estoppel contained in the motion papers.

U. S. Circuit Court of Appeals—First Circuit.

I. T. S. RUBBER COMPANY *v.* ESSEX RUBBER CO.

Decided June 7, 1922.

[281 Fed. Rep., 5.]

1. PATENTS—REISSUE 14,049, CLAIMS 5–9, FOR RUBBER HEEL LIFT, CONSTRUED SO AS TO REQUIRE HEARING TO DETERMINE INFRINGEMENT.

The Tufford reissue patent, No. 14,049, claims 5–9, for a rubber heel lift, *Held* not limited to a lift which when inverted would rest only on the rear edge and the two forward corners, but to include a lift in which the top outer edge was all in one plane, and, so construed, to require a hearing of evidence to determine whether it is infringed by defendant's heels, so that a dismissal of the bill on motion must be reversed.

2. EQUITY—AVERMENT OF INFORMATION AND BELIEF AS TO FACT IS NOT AVERMENT OF FACT.

An averment in a bill of complaint that plaintiff is informed and believes that defendant undertook the defense of a prior suit, so as to be bound by the decree therein, is not an allegation of the fact based on information and belief, but merely an allegation of such information and belief, which is insufficient to tender an issue.

APPEAL from the District Court of the United States for the District of Massachusetts; George W. Anderson, judge.

Suit in equity for infringement of patent by the I. T. S. Rubber Company against the Essex Rubber Company. Bill dismissed on motion (270 Fed. 593), and plaintiff appeals. Reversed and remanded for further proceedings.

See, also, 276 Fed., 478.

Mr. Charles A. Brown and *Mr. F. O. Richey* (*Mr. F. A. Tannant* on the brief) for the appellant.

Mr. Lucius E. Varney (*Messrs. Emery, Booth, Janney & Varney* on the brief) for the appellee.

Before BINGHAM and JOHNSON, Circuit Judges, and MORRIS, District Judge.

BINGHAM, *Cir. J.:*

This is an appeal from a decree of the district court for Massachusetts in an equity suit charging infringement of reissued Letters Patent No. 14,049, applied for June 22, 1915, and issued January 11, 1916, to the I. T. S. Rubber Company, assignee, through mesne assignments from John G. Tufford.

The invention is for an improvement in resilient heels, and particularly in cushion heels of the type comprising an elastic lift, adapted to be applied to the ordinary shoe heel.

After motion by the defendant for particulars, a stipulation was filed in which it was agreed that certain attached heels (plaintiff's Exhibits 1 and 2, defendant's heels, series A and B) were sold by the defendant in the district of Massachusetts between January 11, 1916, the date of the Letters Patent in suit, and the date when the complaint in the cause was filed, and that the acts of infringement relied on by the plaintiff were based on sales made by the defendant of heel lifts the same as the heel lifts which formed plaintiff's Exhibits Nos. 1 and 2, defendant's heels, series A and B, or other heels exactly like them, except as to size and color, and that the advertisements appearing upon pages 29 and 30 of the record were issued and published under the authority of the defendant, on or about the dates of their publication, April 1, 1918, and July, 1920. The defendant thereupon moved to dismiss the complaint, on the ground that it appeared from the record thus made that there was no infringement.

The case was treated in the court below as though the plaintiff had set up in its bill that the defendant had been guilty of infringement by selling the attached heels, and the defendant had demurred to the bill on the ground that it appeared therefrom that the alleged infringing structures were not infringements, and a decree dismissing the bill for this reason was entered, from which this appeal is taken.

The questions presented by the assignments of error, and here argued, are that the court erred (1) in holding that the claims in issue were not infringed; and (2) in holding that the defendant was not estopped from denying infringement, due to certain allegations in the bill of complaint, in which the plaintiff claimed that the defendant had partici-

pated in certain suits in the sixth circuit, brought by the plaintiff against dealers to whom the defendant had sold heels exactly like plaintiff's Exhibit No. 1, defendant's heels, in which decrees pro confesso had been entered.

The theory upon which the court below proceeded in dealing with the case was that it was its duty to grant the motion to dismiss, unless it appeared that the heels in question were or could be found to be an infringement of the plaintiff's patent, but that, if expert testimony or other extraneous evidence was needed—

to assist in the construction of the patent, or to determine whether the defendant's products infringe, the case must stand for hearing.

For the purpose of determining the questions raised by the motion, the defendant concedes that the patent is valid, and that there is nothing in the prior art, except as stated in the patent itself, and nothing in the file wrapper, which should limit the plain terms of the patent.

The claims in issue read as follows:

5. A heel lift of substantially nonmetallic resilient material, having its body portion of concavo-convex form on every line of cross section, the concave upper face lying entirely below a plane passing through the rear upper edge and the breast corners of the lift.

6. A heel lift of substantially resilient material having its body portion of concavo-convex form on every line of cross section, the concave upper face lying entirely below a plane passing through the rear upper edge and the breast corners of the lift, said lift being provided with nail-receiving openings located near the center thereof.

7. A heel lift of substantially resilient material, comprising a body portion, the attaching face of which is concave and the tread face of which is convex on every line of cross section, and normally held in such form by its own inherent resiliency, the concave attaching face lying entirely below a plane passing through the rear upper edge and the breast corners of the lift, whereby to cause the entire margin of said lift to exert a uniform pressure on the heel of a shoe, when said lift is positioned on the heel and the convex tread face thereof depressed to flatten said lift.

8. A heel lift of resilient material, comprising a body portion of uniform thickness throughout its entire area and of concavo-convex form on every line of cross section, the concave upper face of the lift lying entirely below a plane passing through the upper edge and the breast corners of said lift.

9. A heel lift of resilient material, comprising a body portion, the attaching face of which is concave and the tread face of which is convex, the concave face of the lift being unbroken and lying entirely below a plane passing through the rear upper edge and the breast corners of the lift, whereby, when the convex tread face is depressed to flatten said lift, a suction will be created between the lift and the heel to hold the attaching face of the lift throughout its entire extent in contact with the exposed face of the heel.

[1] All of these claims were regarded by the court below as referring to the concave face of the lift as—

lying entirely below a plane passing through the rear upper edge and the breast corners of the lift,

and, construing the claims with reference to the specification and drawings, it reached the conclusion that—

this shape-defining language concerning the concave upper face "lying entirely below a plane passing through the rear upper edge and breast corners" [was] of the very essence of the invention,

and that—

so far as these claims in suit [were] concerned, no heel having along the sides and rear a straight edge—all in one plane—can be held an infringement of the plaintiff's patent;

that inasmuch as the defendant's heel was a straight edge heel, except between the two breast corners, it did not infringe the claims in issue, as they called for a heel of concavo-convex shape,

which when laid down upon a plane surface touches only at the rear and the two breast corners;

and that expert testimony or other extraneous evidence was not needed "in order to understand the language of the patent."

An examination of the above claims discloses that the court below was mistaken when it said that—

in every one of these five claims the upper face is referred to as "lying entirely below a plane passing through the rear upper edge and the breast corners of the lift."

The statement is true as to the fifth, sixth, seventh, and ninth claims, but in the eighth claim the language is:

The concave upper face of the lift lying entirely below a plane passing through the *upper edge* and the breast corners of said lift—

plainly showing that the patentee contemplated a heel the upper edge and the breast corners of which lay in the same plane. In this claim he does not use the phrase "the rear upper edge" that appears in the other four claims, and the omission of the word "rear" manifests a purpose not to limit claim 8 to a heel having the concave upper face lying below a plane passing through only the *rear* upper edge and breast corners of the lift.

Then again the court below, in construing the claims in issue, laid special stress upon the word "entirely," as used in the phrase—

the concave upper face lying entirely below a plane passing through the rear upper edge and breast corners of the lift.

His reasoning was that, as an edge is a line where two surfaces meet, the upper edges of the lift must be a part of the concave upper face, and that, as the concave upper face is described as lying entirely below a plane passing through the three points, the line or edge of the concave face must fall below the plane. But it seems to us that such is not the meaning of the language, for otherwise the rear upper edge and breast corners, through which (according to claims 5, 6, 7, and 9) the plane passes, would be below the plane, a clear contradiction of the language of these claims; and in claim 8, where the term "upper edge" and not "rear upper edge" is used, and in which the concave upper face is described as—

lying entirely below a plane passing through the upper edge and breast corners of the lift,

it seems apparent that the patentee did not mean to convey the idea that the upper edge was a part of the "concave upper face" which is described as—

lying entirely below a plane passing through the upper edge and breast corners.

The question of infringement with reference to claim 8 cannot be determined on the basis of comparison indulged in by the court below, for this claim cannot reasonably be construed as limited by its language to a concavo-convex heel, which, when laid upon a plane surface, touches only at the rear edge of the two breast corners.

It is conceded that claim 8 is valid, and that the defendant's alleged infringing heel is of a concavo-convex form on every line of cross section, whose

concave upper face lies entirely below a plane passing through the upper edge and breast corners of the lift. This being so, the only thing left open on the question of the infringement of claim 8 is whether the body portion of defendant's heel is of a "uniform thickness throughout its entire area." An inspection of the defendant's heel shows that its body portion is not of a uniform thickness throughout its entire area, but it appears to be substantially so, and, if it performs the functions of a heel constructed in compliance with claim 8, we fail to see wherein it should not be held to infringe.

Was the court below right in construing the fifth, sixth, seventh, and ninth claims as limited to a concavo-convex heel, which, when placed upon a plane surface, touches only at the rear edge and the breast corners, or, in other words, one in which—

the rear upper edge and breast corners of said concave attaching face are disposed in a plane above the upper side edges and the breast edges of the lift?

The fundamental conception of plaintiff's patent as to form is one—

molded or cut so as to be of a concavo-convex form on any line of cross section,

and its principal object or function when so formed is (according to the language of the specification)—

that when the lift is subjected to pressure any tendency for the edge portions of the lift to crowd beyond the sides of the shoe heel will be counteracted, and there will be equally as great a tendency for the material of the lift to crowd or compress toward the center thereof.

This means that the retroactive force inherent in the rubber will counteract any tendency of the edge portions of the lift to crowd beyond the sides of the shoe heel when the lift of the patent is subjected to pressure, and thus keep the side and breast edges of the lift in alignment with the side and breast edges of the shoe heel and in close contact therewith. This description gives the general form of the lift, without defining the upper edges of its concave attaching face, either between the breast corners or around the outer edge of the lift, or requiring it to be spherical.

The specification also discloses a preferred form of heel, concavo-convex on every line of cross section and possessing a like function or retroactive force. The specification says:

It is preferable that the lift be of the same thickness throughout and that its marginal surface be at all points radial to the center of curvature of its concave side 3 so that, when the lift is applied to the shoe heel and subjected to pressure, its said marginal surface will be coincident with the side of the shoe heel.

It is conceded by the plaintiff that the preferred form of lift called for by the language—

that its marginal surface be at all points radial to the center of curvature of its concave side 3—

is spherical. The drawings of the specifications show a concavo-convex lift of spherical form, having a body of uniform thickness and its side and breast edges below a plane passing through its rear upper edge and breast corners. This is plainly shown in Figures 2 and 4 of the drawings. The specification further says:

By references to Figs. 2 and 4 of the drawings, it will be seen that the concave upper face of the lift lies entirely below a plane passing through the rear upper edge and breast corners of the lift, whereby to cause the entire margin of said lift to exert a uniform pressure on the heel of a shoe, when the lift is positioned on the heel and the convex face thereof depressed to flatten said lift. In other words, owing to the curvature of the concave attaching face of the lift, the rear upper edge and breast corners of said concave attaching face are disposed in a plane above the upper side edges and the breast edges of the lift.

It seems to us that the language of claims 5, 6, 7, and 9 describes the preferred form disclosed in the specification and drawings, namely, the three-point contact form, having its side and breast edges, as well as its concave attaching face, located below a plane passing through the rear upper edge and breast corners of the concave face. But, as the patent is for an appliance, and not for a mere form, and when in operation or use functions in a given way, due to the elements embodied in its shape, we do not think the question of infringement is limited to a mere comparison of shapes or forms, independent of function. If it could be said that no other conclusion could be drawn from the allegations of the bill and the patented and alleged infringing heels than that a concavo-convex heel like the defendant's having side edges, as well as a rear edge and breast corners, in the same plane, functions in a different way from the concavo-convex heel of these claims, having only its rear edge and breast corners in the same plane, the decision of the court below that the defendant's heel did not infringe would have been right. But, as we think this cannot be said to be the undoubted fact, we are of the opinion that the question of infringement cannot properly be determined without evidence. If it should appear that the raised side edges in the defendant's heel do not cause it to function in a different way from the plaintiff's, but simply cause its rear edge and breast corners to function less perfectly (a matter of degree), we think it should be held to infringe.

As the defendant's heel may or may not infringe the claims in issue, depending upon whether or not it functions in the way or manner heels constructed in accordance with the requirements of the claims in issue function, and as this question cannot reasonably be determined on a mere inspection of the heels thus constructed, we think the case should be remanded for trial, unless the defendant is estopped to deny the question of infringement, due to the pro confesso decrees obtained against the dealers in the sixth circuit.

[2] As to the question of estoppel: In its bill of complaint the plaintiff does not specifically, or on information and belief, allege facts showing that the defendant assumed the control and undertook the defense of the suits brought in the sixth circuit against the dealers to whom it sold heels. It simply says that it is informed and believes that the defendant did so without averring the fact. Such an allegation tenders no issue material to the cause. The material question was and is whether the defendant assumed the control and undertook the defense of those suits, not what the plaintiff understood and believed the defendant did.

There is a distinction in equity pleading between an averment of information and belief as to matter of fact and an averment of matter of fact on information and belief. The former averment is improper, an issue can-

not legitimately be taken on the existence of such information and belief. The latter is proper, as it tenders issuable matter of fact. (*Murray Co.* v. *Continental Gin Co.* (C. C.) 126 Fed., 533, 534; *Helmet Co.* v. *Wm. Wrigley, Jr., Co.*, 245 Fed., 824, 826; 158 C. C. A., 164, and authorities there cited; 1 Whitehouse, Eq. Pr. sec. 105.)

However this may be, we do not think the allegations of the bill as to this branch of the case are of such a definite character that, in the absence of proof of what actually occurred, we should hold that the defendant was concluded by the decrees in the sixth circuit and estopped to contest the question of infringement.

The decree of the district court is reversed, and the case is remanded to that court for further proceedings not inconsistent with this opinion, with costs to the appellant.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

656,062, T. Van Kannel, Revolving door; 836,843, same, Collapsible revolving door, suit filed Jan. 23, 1923, U. S. C. C. Appeals (8th Cir.), Doc. 6266, *The Van Kannel Revolving Door Co.* v. *Uhrich & Uhrich* (*Atchison Revolving Door Co.*).

802,004, D. B. Luten, Centering for and methods of constructing arches; 1,106,880, same, False work, suit filed Dec. 23, 1922, U. S. C. C. Appeals (8th Cir.), Doc. 5919, *D. B. Luten* v. *Kansas City Bridge Co.* Case remanded to District Court Dec. 23, 1922.

822,753, A. McDougall, Ore cleaners, Decree of District Court affirmed Oct. 21, 1922, U. S. C. C. Appeals (8th Cir.), *A. McDougall* v. *Oliver Iron Mining Co.*

836,843. (See 656,062.)

939,310, C. Phillips, Attachments for feed-water injectors, Bill dismissed by consent, U. S. D. C., S. D. N. Y., *W. D. Phillips* (*Adm.*) v. *The Nathan Mfg. Co.*

958,478, W. E. Davey, Process of reinforcing trees, Appeal filed Sept. 15, 1922, U. S. C. C. Appeals (8th Cir.), Doc. 6179, *The Davey Tree Expert Co.* v. *K. M. McBeath.* Same, suit filed Jan. 27, 1923, U. S. D. C. E. D. Wis., Doc. 1296. *The Davey Tree Expert Co.* v. *A. D. Hoffman.* Decree in favor of plaintiff Feb. 14, 1923.

978,030, 1,152,642, 1,192,786, 1,246,818, A. A. Kent, Electric contact devices; 1,192,788, same, Electric igniting mechanism for internal-combustion engines; Re. 15,128 (orig. No. 1,289,036), same, Contact devices; Des. 53,852, same, Spring contact arm; Des. 42,666, same, Cap for contact makers, Perpetual injunction issued Feb. 26, 1923, U. S. D. C., D. Mass., *Atwater Kent Mfg. Co.* v. *Bay State Research & Mfg. Co., Inc.*

989,927, G. M. Saybolt, Obtaining naphtha from natural gas, suit filed Oct. 2, 1922, U. S. C. C. Appeals (8th Cir.), Doc. 6025, *Standard Oil Co. and others* v. *Oklahoma Natural Gas Co.* Decree of District Court affirmed.

1,019,174. (See 1,056,926.)

1,021,651, Anakin & Shealy, Auxiliary safe locks, suit filed Jan. 26, 1923, U. S. C. C. Appeals (8th Cir.), Doc. 6268, *Anakin Lock Works* v. *Dillon Lock Works and others.*

1,041,023, C. A. Channell, Mops, suit filed Feb. 6, 1923, U. S. D. C., E. D. Wis., Doc. 1298, *Channell Chemical Co.* v. *Gem Hammock & Fly Net Co.*

1,056,926, H. C. Miller, Loose-leaf binders; 1,019,174, same, Flexible binder post; 1,164,031, G. W. Thomas, Loose-leaf-binder frame and lock therefor, suit filed Nov. 11, 1922, U. S. C. C. Appeals (8th Cir.), Doc. 5658, *H. C. Miller* v. *Monarch Printing Co. and others.* Decree of District Court modified and affirmed Nov. 11, 1922.

1,106,880. (See 802,004.)

1,152,642. (See 978,030.)

1,164,031. (See 1,056,926.)

1,186,477, W. M. Grosvenor, Process of drying or hardening coatings, suit filed Jan. 27, 1923, U. S. D. C., E. D. Wis., Doc. 1297, *Wenborne-Karpen Dryer Co.* v. *Milwaukee Talking Machine Co. et al.*

1,192,786. (See 978,030.)

1,192,788. (See 978,030.)

1,225,682. J. Schulde. Show-case refrigerator, suit filed Jan. 9, 1923, U. S. C. C. Appeals (8th Cir.), Doc. 6119, (*Goodman & Cohen* (*Modern Fixture Co.*) v. *H. L. Hussman Refrigerator & Supply Co.* Appeal dismissed on motion of appellee Jan. 9, 1923.

1,246,818. (See 978,030.)

1,333,331, W. B. Moses, Starting, generating, and ignition apparatus, suit filed Dec. 28, 1922, U. S. C. C. Appeals, Doc. 1603, *W. B. Moses* v. *Lalime & Partridge, Inc.* Decree of District Court affirmed.

1,339,466, W. O. Lum, Controlling means for electric circuits; 1,344,260, H. R. Canfield, Method and means for controlling electric circuits, bill dismissed by agreement of parties Feb. 26, 1922, U. S. D. C., N. D. Ohio (E. D.), *General Electric Co.* v. *The Cutler Hammer Mfg. Co.*

1,344,260. (See 1,339,466.)

1,365,170, R. F. Gowen, Inductance-coil mounting, suit filed July 18, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/202, *De Forest Radio Telephone & Telegraph Co.* v. *A. Lolass* (*American Electro Technical Appliance Co.*), Permanent injunction granted. (To correct error in O. G. Feb. 6, 1923, p. 6.)

Re. 15,128. (See 978,030.)

Des. 42,666. (See 978,030.)

Des. 53,852. (See 978,030.)

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 17, 1923.

[VOL. 309. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 124,986. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. GUMP CO., Chicago, Ill. Filed Nov. 17, 1919.

Ideal

Particular description of goods.—Milling Machinery Comprising Single Roller Mills, Two-High Roller Mills, Three Pair-High Roller Mills, Post Roller Mills, Ball-Bearing Roller Mills, Coffee-Cutting Machinery, Corn-Cutting Machinery; Bolting Reels Including Round, Hexagon, and Centrifugal Reels; Feed Screens, Rapid Sack Packers, Flour Packers, Bran Packers, Feed Packers, Magnetic Separators, Single-Unit Mill Outfits, Dust Collectors, Complete Nonportable Elevators Including Ball-Bearing Elevators, Bag Fillers, Round Brushes, Cloth Cleaners, Disintegrators, and Sifters.
Claims use since Jan. 1, 1912.

Ser. No. 132,601. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOSEPH J. FUCHS, doing business as Tourists Pride Mfg. Co., Minneapolis, Minn. Filed May 18, 1920.



All language appearing on the mark except the words "Tourists Pride" are disclaimed
Particular description of goods.—Inner-Tube Repair Patches.
Claims use since Apr. 1, 1920.

Ser. No. 144,043. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PINNACLE COAL & COKE COMPANY, Dana, W. Va., and Easton, Pa. Filed Feb. 25, 1921.

Pinnacle White Ash
TRADE MARK

No claim is made to the words "White Ash, Trade Mark" apart from the trade-mark shown in the drawing.
Particular description of goods.—Coal and Coke.
Claims use since Apr. 24, 1920.

Ser. No. 146,755. (CLASS 31. FILTERS AND REFRIGERATORS.) CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y. Filed Apr. 26, 1921.

FILTER-CEL

Particular description of goods.—Material for Arresting and Separating Impurities or Other Matter from Fluids.
Claims use since Jan. 20, 1914.

Ser. No. 153,951. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL CANDY COMPANY, St. Louis, Mo. Filed Oct. 10, 1921.

Royal

Particular description of goods.—Chocolates and Nut Candy.
Claims use since Sept. 1, 1911.

Ser. No. 154,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAPLE GROVE CANDIES, INC., St. Johnsbury, Vt. Filed Oct. 24, 1921.



Particular description of goods.—Maple Cream, Maple Sirup, Maple Sugar, Sauce for Ice Cream, and Maple Honey.
Claims use since summer of 1915.

Ser. No. 154,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921.

CHERRY REDS

Trade-mark consists of the words "Cherry Reds."
Particular description of goods.—Candy.
Claims use since 1914.

Ser. No. 154,839. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921.

Noon Day

Trade-mark "Noon Day."
Particular description of goods.—Candy.
Claims use since 1890.

Ser. No. 155,070. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROMER AXE AND TOOL COMPANY, Dunkirk, N. Y. Filed Nov. 5, 1921.



No exclusive right is claimed in the words "Hand Forged" except as associated with the other feature shown.
Particular description of goods.—Tools—Namely, Axes, Adzes, Hatchets, Pneumatic Chisels, Hand Chisels, Cold Chisels, Hammers and Tongs, Rivet Sets, Rivet Snaps, Hammers, Sledges, Mauls, Pinch Bars, Claw Bars, Crowbars, Twist Drills, Milling Cutters, Reamers, Scrapers, Pliers, and Center Punches.
Claims use since Apr. 1, 1921.

Ser. No. 155,968. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio. Filed Nov. 26, 1921.

ROADSTER

Particular description of goods.—Vehicle Tires of Rubber and Rubber and Fabric, Inner Tubes, Tire Casings and Shoes, and Repair Parts for Use in Connection with the Foregoing—Namely, Lace-On Boots, Hook-On Boots, Reliners, Blow-Out Patches, Cementless Patches, Cord Patches, and Valve Patches.
Claims use since Aug. 1, 1921.

Ser. No. 156,447. (CLASS 37. PAPER AND STATIONERY.) HAWTHORNE PAPER COMPANY, Kalamazoo, Mich. Filed Dec. 8, 1921.

HAWTHORNE LEDGER

No claim is made to the word "Ledger."
Particular description of goods.—Writing Paper.
Claims use since July, 1913.

Ser. No. 157,109. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT A. SUFFERN, New York, N. Y. Filed Dec. 24, 1921.



No claim is herein made for the use of the term "Brand" apart from the other features of the mark as illustrated.
Particular description of goods.—Unbleached Sheetings and Drills.
Claims use since Aug. 1, 1921.

Ser. No. 157,396. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE M. WATSON, Boston, Mass. Filed Dec. 31, 1921.



Particular description of goods.—Chemical Compounds, Preparations, and Powders for Use in Producing Varying Colors in Burning Fuel.
Claims use since about Oct. 1, 1901.

Ser. No. 157,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE M. WATSON, Boston, Mass. Filed Dec. 31, 1921.

DRIFTWOOD

Particular description of goods.—Chemical Compounds, Preparations, and Powders for Use in Producing Varying Colors in Burning Fuel.
Claims use since about Feb. 1, 1902.

Ser. No. 157,475. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CORTRIGHT COAL COMPANY, Philadelphia, Pa. Filed Jan. 4, 1922.



No claim is made to the exclusive use of the word "Coal" apart from the mark shown.
Particular description of goods.—Coal.
Claims use since on or about Apr. 15, 1912.

Ser. No. 158,596. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BIRD-ARCHER COMPANY, New York, N. Y. Filed Jan. 30, 1922.

BAC

Particular description of goods.—Core Facings, Core Blackings, Core Binders, Core Partings, and Powdered and Plastic Ladle Linings.
Claims use since Sept. 1, 1919.

Ser. No. 158,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERSHEY CHOCOLATE COMPANY OF NEW YORK, INC., New York, N. Y. Filed Feb. 2, 1922.

CRYSTAL

Particular description of goods.—Sugar-Coated Raisins in Packages.
Claims use since Jan. 14, 1922.

Ser. No. 158,822. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Feb. 8, 1922.



Particular description of goods.—Matches.
Claims use since Nov. 11, 1911.

Ser. No. 158,823. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Feb. 3, 1922.



No claim is made for the exclusive use of the word "Matches" apart from the mark as shown on the drawing.

Particular description of goods.—Matches.

Claims use since Mar. 22, 1921.

Ser. No. 159,360. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Feb. 15, 1922.

Icicles

Trade-mark consists of the word "Icicles."

Particular description of goods.—Coated Frozen Confections.

Claims use since Jan. 19, 1922.

Ser. No. 161,251. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE H. GARNET, doing business as The George H. Garnet Company, Allentown, Pa. Filed Mar. 25, 1922.



The words "Greatest Delicacy" and "Cake" are hereby disclaimed, except in combination with the mark shown. The shading on the drawing represents the color blue.

Particular description of goods.—Confection—Namely, Ice Cream Enclosed in Pastry.

Claims use since Mar. 13, 1922.

Ser. No. 161,733. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ROBERT G. MITCHELL, doing business as The Agripa Company, New York, N. Y. Filed Apr. 4, 1922.

AGRIPA

Particular description of goods.—Portable Metallic Holders for Beverage Containers, Such as Tumblers and Bottles.

Claims use since Mar. 13, 1922.

Ser. No. 162,646. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PAGE STEEL & WIRE COMPANY, Adrian, Mich., and Bridgeport, Conn. Filed Apr. 20, 1922.

PALENQUE

Particular description of goods.—Base-Metal Wire.

Claims use since Mar. 22, 1922.

Ser. No. 162,803. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COX BRASS MANUFACTURING COMPANY, Albany, N. Y. Filed Apr. 24, 1922.

ENDURANCE

Particular description of goods.—Bumpers, Bumper Brackets, and Bumper Fittings.

Claims use since on or about February, 1917.

Ser. No. 162,804. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COX BRASS MANUFACTURING COMPANY, Albany, N. Y. Filed Apr. 24, 1922.

HYLO

Particular description of goods.—Bumpers, Bumper Brackets, and Bumper Fittings.

Claims use since November, 1919.

Ser. No. 162,806. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COX BRASS MANUFACTURING COMPANY, Albany, N. Y. Filed Apr. 24, 1922.



Particular description of goods.—Automobile Bumpers, Bumper Brackets, Bumper Fittings, Shock Absorbers, and Windshields.

Claims use since 1900.

Ser. No. 163,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN W. MCCARTHY, JR. INC., San Francisco, Calif. Filed May 4, 1922.

FAIRPLAY

Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since Apr. 1, 1915.

Ser. No. 164,474. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE VICTOR-AMERICAN FUEL COMPANY, Portland, Me., and Denver, Colo. Filed May 24, 1922.

PINNACLE

Particular description of goods.—Coal.

Claims use since Apr. 22, 1916.

Ser. No. 164,020. (CLASS 7. CORDAGE.) THE JOHNSON PICKETT ROPE CO., Manila, P. I. Filed June 3, 1922.



No claim is made to the words "Manila, P. I." or "Abaca" except in the form and association shown. The trade-mark consists of a panel bearing the words "Johnson Pickett Rope Co." Approximately three-fourths of the circle, and the words "Manila, P. I." forming the lower segment, all these in plain type. In the upper portion of the mark and inside of circle is the word "Abaca," below which is a representation of a clump of three trees.

Particular description of goods.—Rope and Twine of All Kinds, Manila Rope, Sisal Rope, Cable of Fiber Material, Commercial Twines of Hard and Soft Fiber, Clotheslines Composed of Hemp and Jute.

Claims use since Nov. 1, 1921.

Ser. No. 164,921. (CLASS 7. CORDAGE.) THE JOHNSON PICKETT ROPE CO., Manila, P. I. Filed June 3, 1922.



No claim is made to the words "Manila, P. I." or "Abaca" except in the form and association shown. Trade-mark consists of a circular panel representing a ship's steering wheel without spokes, the rim of which contains the words, "Johnson Pickett Rope Co." and "Manila, P. I." in the lower segment of said rim. Across the face of the center of the circle is the word "Abaca," and at right angles to it is the representation of a tree with three leaves.

Particular description of goods.—Rope and Twine of All Kinds, Manila Rope, Sisal Rope, Cable of Fiber Material, Commercial Twines of Hard and Soft Fiber, Clotheslines Composed of Hemp and Jute.

Claims use since Nov. 1, 1921.

Ser. No. 165,058. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. BIEGLER, doing business as Dent Laboratories, Cincinnati, Ohio. Filed June 6, 1922.

ALK-ANS

Particular description of goods.—Pharmaceutical Preparation as an Antiseptic.

Claims use since Mar. 19, 1921.

Ser. No. 165,320. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEBER MILK COMPANY, Indianapolis, Ind. Filed June 10, 1922.

Angel Drink

No claim is made to the word "Drink" apart from the mark "Angel Drink" shown in the drawing.

Particular description of goods.—Malted Chocolate Milk Drink.

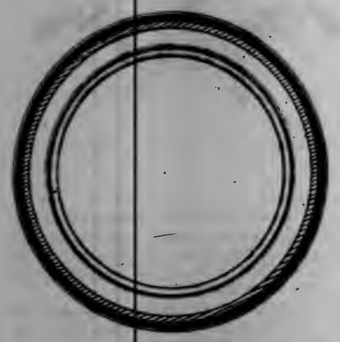
Claims use since June 7, 1922.

Ser. No. 166,080. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LOUISVILLE COFFEE COMPANY, Louisville, Ky. Filed June 26, 1922.

DAD'S CHOICE

Particular description of goods.—Coffee.
Claims use since Apr. 1, 1920.

Ser. No. 166,223. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) EMPIRE TIRE & RUBBER CORPORATION, Trenton, N. J. Filed June 29, 1922.



No claim is made to the representation of an automobile tire. The mark comprises comparatively narrow circumferential brown (chocolate-colored) stripes covering portions of each of the side walls of the tire and spaced from the tread and edge portions thereof.
Particular description of goods.—Pneumatic Vehicle Tires.
Claims use since Dec. 13, 1921.

Ser. No. 166,705. (CLASS 12. CONSTRUCTION MATERIALS.) JOHN W. MONROE, Lima, Ohio. Filed July 10, 1922.



Particular description of goods.—Various Styles and Sizes of Wood Rolling Partitions in Buildings, for Doors, Wardrobes, and the Like Manufactured for the Trade.
Claims use since 1895.

Ser. No. 167,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KURTZ BROTHERS, Philadelphia, Pa. Filed July 17, 1922.

Glorus

Particular description of goods.—Macaroni and Olive Oil.
Claims use since February, 1920.

Ser. No. 167,553. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) F. E. BOOTH CO., San Francisco, Calif. Filed July 29, 1922.

B

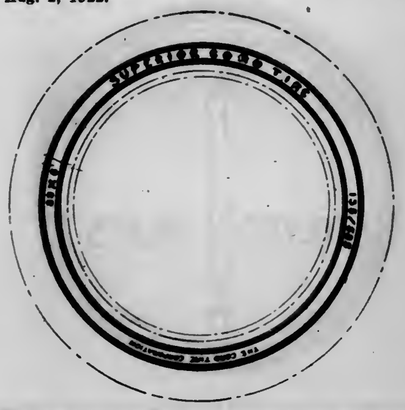
Particular description of goods.—Light, Refined, Dark-Colored, Clear Oil, Without Fatty Acid Content, of High Viscosity, Used in Making High-Gloss Varnish.
Claims use since Mar. 21, 1921.

Ser. No. 167,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BROWN ORCOLA COMPANY, Chicago, Ill. Filed July 31, 1922.

OCRO

The trade-mark consists of the coined word "Ocro."
Particular description of goods.—Shortening, a Greasy Pasty Substance Used in Mixing Dough for Baking and Cooking for the Purpose of Producing Lightness or Sponginess and Making Pastry Short and Friable.
Claims use since Apr. 1, 1922.

Ser. No. 167,712. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE CORD TIRE CORPORATION, Chester, W. Va. Filed Aug. 2, 1922.



No claim is made to the particular lettering between the concentric rims, and no claim is made to the broken-line representation of the tire. The mark consists of two rings of one or more beads or the like, each concentric with the inner and outer periphery of the side walls of the tire and serving to frame the usual lettering on said side wall.
Particular description of goods.—Automobile Tire Casings.
Claims use since about June 1, 1921.

Ser. No. 167,840. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) J. H. COHEN, doing business as The Connecticut Automotive Specialties Co. Inc., Bridgeport, Conn. Filed Aug. 5, 1922.

CASCO

Particular description of goods.—Vacuum Tank Floats.
Claims use since Nov. 1, 1921.

Ser. No. 167,870. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLEXIBLE STEEL LACING COMPANY, Chicago, Ill. Filed Aug. 7, 1922.

25

Particular description of goods.—Flexible or Hinged Belt Fasteners.
Claims use since 1909.

Ser. No. 168,391. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED STATES PRODUCTS CORPORATION, San Jose, Calif. Filed Aug. 17, 1922.

WORTHMORE

Particular description of goods.—Canned Fruits, Canned Vegetables, and Canned Fish.
Claims use since July 24, 1922.

Ser. No. 168,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROCESS CHEMICALS INCORPORATED, New York, N. Y. Filed Aug. 19, 1922.



All of the wording except "Larvex" appearing on the drawing is disclaimed apart from the mark as shown. The vertical lines in the drawing are intended to represent the color red.
Particular description of goods.—Insecticide and Mothproofing Composition.
Claims use since about Aug. 2, 1922.

Ser. No. 168,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. M. CABRERA, doing business as Cabrera & Co., New York, N. Y. Filed Aug. 21, 1922.

CHOCOLAT-FAVORITA

Particular description of goods.—Chocolate.
Claims use since July 31, 1922.

Ser. No. 168,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLSON COFFEE CO., Omaha, Nebr. Filed Aug. 21, 1922.



Particular description of goods.—Coffee, Tea, Spices, and Flavoring Extracts for Foods.
Claims use since 1913.

Ser. No. 168,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUTLER-BLANCHARD CO., Grand Island, Nebr. Filed Aug. 26, 1922.

ICICLE

Particular description of goods.—Frozen Confections.
Claims use since Jan. 2, 1922.

Ser. No. 168,759. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. EADS, Bristol, Va. Filed Aug. 28, 1922.



The word "Sucker" as a part of the mark is disclaimed apart from the other features thereof.
Particular description of goods.—Candy.
Claims use since May 1, 1922.

Ser. No. 168,991. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TOLEDO STEEL PRODUCTS CO., Toledo, Ohio. Filed Sept. 1, 1922.



No claim is made to the words "Toledo" and "Valves" and the representation of a valve aside from the trade-mark as shown. No common-law rights, however, in the separate parts of the trade-mark are waived.
Particular description of goods.—Poppet Valves.
Claims use since about Jan. 1, 1920.

Ser. No. 169,328. (CLASS 2. RECEPTACLES.) SHUZO SATAKE, doing business as Non-Crush Fruit Guard Company, Sacramento, Calif. Filed Sept. 11, 1922.

PAG

Particular description of goods.—Cardboard to be Placed in Fruit Boxes to Prevent the Crushing of the Fruit.
Claims use since July 1, 1922.

Ser. No. 169,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERFUMERIA GAL, SOCIEDAD ANONIMA, Madrid, Spain. Filed Sept. 13, 1922.

MANOLA

Particular description of goods.—Toilet Powders and Handkerchief Extracts.
Claims use since Dec. 1, 1916.

Ser. No. 169,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah. Filed Sept. 15, 1922.

NATURIPE

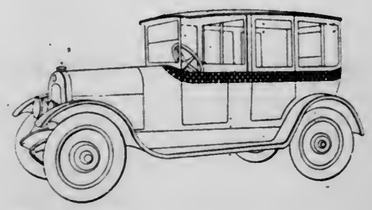
Particular description of goods.—Canned Vegetables.
Claims use since Aug. 1, 1922.

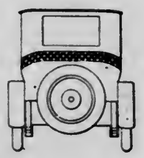
Ser. No. 169,563. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCKFORD WHOLESALE GROCERY CO., Rockford, Ill. Filed Sept. 16, 1922.

ECHO

Particular description of goods.—Coffee.
Claims use since 1903.

Ser. No. 169,576. (CLASS 19. VEHICLES NOT INCLUDING ENGINES.) CHECKER CAB MANUFACTURING CORPORATION, Chicago, Ill. Filed Sept. 18, 1922.





No claim is made to the representation of a motor car. The trade-mark comprises the checkered band substantially encircling the car near the upper edge of the main body portion, where it joins the top portion.
Particular description of goods.—Automobile Cabs and Trucks.
Claims use since July 17, 1921.

Ser. No. 169,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODMAN AMERICAN ICE CREAM COMPANY, Chicago, Ill. Filed Sept. 20, 1922.

CONGRESS SPECIAL

Particular description of goods.—Ice Cream.
Claims use since January, 1916.

Ser. No. 170,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GOLDTHORP COMPANY, INC., Philadelphia, Pa. Filed Sept. 29, 1922.

CRAFTEX

Particular description of goods.—Upholstery and Drapery Fabrics of the Type Commonly Made on Jacquard Looms, Said Fabrics Being of a Class Different of Those Commonly Known as "Piece Goods."
Claims use since July 1, 1922.

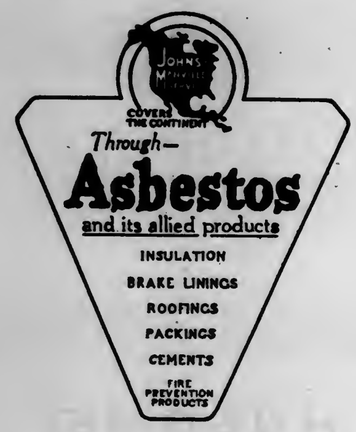
Ser. No. 170,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WINDMILL FOOD PRODUCTS COMPANY, New York, N. Y. Filed Sept. 30, 1922.



"FAMOUS 41"

Applicant makes no claim to the words "Pure and Reliable" apart from the other features of the mark shown.
Particular description of goods.—French Dressing.
Claims use since June 21, 1922.

Ser. No. 170,294. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHNS-MANVILLE INCORPORATED, New York, N. Y. Filed Oct. 4, 1922.



No claim made to the printed words contained within drawing.
Particular description of goods.—Piston-Rod Packing Made of Asbestos.
Claims use since July 1, 1922.

Ser. No. 170,345. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Oct. 5, 1922.



Trade-mark consists of the representation of a snake.
Particular description of goods.—Resistance Wires of Copper, Nickel, Iron, or of Combinations or Alloys of These Metals.
Claims use since 1914.

Ser. No. 170,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. JAEGER DISTRIBUTING CO., New York, N. Y. Filed Oct. 6. 1922.

"VITA" MUSCLE CERATE.

No claim made for the words "Muscle Cerate" apart from the mark as shown.
Particular description of goods.—Facial Cream.
Claims use since June 1, 1922.

Ser. No. 170,441. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) METEOR MIXING MACHINE CO., INC., New York, N. Y., assignor to Fitchburg Machine Works, Fitchburg, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1922.



In the trade-mark the background of the letters and the outline of the diamond is red.
Particular description of goods.—Food-Mixing Machines and Parts thereof.
Claims use since June 1, 1921.

Ser. No. 170,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUGG'ME COMPANY, New York, N. Y. Filed Oct. 7, 1922.

HUGG'ME

Trade-mark consists of the word "Hugg'me."
Particular description of goods.—Face Powder.
Claims use since Sept. 12, 1922.

Ser. No. 170,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE L. CHUTE, doing business as The Chute Laboratories, New Lexington, Ohio. Filed Oct. 14, 1922.



No claim made to the words "Makes the Skin Beautiful" apart from the mark shown.
Particular description of goods.—Embalmer's Face Pack, Clay Massage, Cold Cream, and Vanishing Cream.
Claims use since Sept. 1, 1922.

Ser. No. 170,822. (CLASS 12. CONSTRUCTION MATERIALS.) KIMBALTON LIME COMPANY, INC., Kimbalton, Va. Filed Oct. 17, 1922.

EDGEHILL

Particular description of goods.—Lime.
Claims use since June, 1919.

Ser. No. 170,848. (CLASS 10. FERTILIZERS.) SAMUEL PRICE WETHERILL, Jr., Philadelphia, Pa. Filed Oct. 17, 1922.

CARBIT

Particular description of goods.—Gas-Generating Means.
Claims use since Oct. 2, 1922.

Ser. No. 171,017. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM E. GLICKMAN, Brooklyn, N. Y. Filed Oct. 21, 1922.



The name "Jeane Furnié" is fanciful. The words "Les Resorcin" are disclaimed apart from the mark.
Particular description of goods.—Hair Tonic.
Claims use since 1917.

Ser. No. 171,051. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WESTFIELD MANUFACTURING COMPANY, Westfield, Mass. Filed Oct. 21, 1922.

Rambler

Particular description of goods.—Baby Carriages.
Claims use since Nov. 1, 1921.

Ser. No. 171,063. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND STEEL BARREL COMPANY, Cleveland, Ohio. Filed Oct. 23, 1922.

Steeltun

The lining expresses shading.
Particular description of goods.—Pump Outfits for Dispensing Lubricants and Other Fluids, Parts Thereof, and Fittings Thereof.
Claims use since Jan. 1, 1921.

Ser. No. 171,167. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARLEQUIN PARFUMERIE COMPAGNIE, New York, N. Y. Filed Oct. 25, 1922.



Particular description of goods.—Bottles or Vials or Packages or Cases in Which There is Inclosed or Contained Either Perfume or Toilet Water or Rouge or Lip Stick or Face Cream, Each Package or Case Containing One or More of the Foregoing.
Claims use since Aug. 1, 1922.

Ser. No. 171,226. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENJAMIN LURYE, doing business as B. Lurye & Co., Chicago, Ill. Filed Oct. 26, 1922.

DIAMOND CITY

Particular description of goods.—Hammers, Hatchets, Shovels, Screw Drivers, and Chisels.
Claims use since August, 1912.

Ser. No. 171,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE W. STEMMLER, doing business as Evonol Laboratories, New York, N. Y. Filed Nov. 4, 1922.

CAMPHOTOL

Particular description of goods.—Preparation for Inflammatory Conditions.
Claims use since Jan. 2, 1920.

Ser. No. 171,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE W. STEMMLER, doing business as Evonol Laboratories, New York, N. Y. Filed Nov. 4, 1922.

OPTOL

Particular description of goods.—Preparation for Use in the Treatment of Inflamed Eyes.
Claims use since Jan. 2, 1920.

Ser. No. 171,751. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE COLUMBIA TIRE AND RUBBER COMPANY, Mansfield, Ohio. Filed Nov. 9, 1922.

STAG

Particular description of goods.—Inner Tubes, Pneumatic Tires, Cord Tires, and Fabric Tires.
Claims use since Aug. 7, 1922.

Ser. No. 172,058. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY L. RABINOW, New York, N. Y. Filed Nov. 15, 1922.

SCALPADE

REG. U.S.PAT. OFF.

No claim is made to the language appearing in the drawing apart from the mark shown.
Particular description of goods.—Hair Salve and Pomade.
Claims use since January, 1922.

Ser. No. 172,156. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa. Filed Nov. 17, 1922.

THE GRISWOLD MFG CO
CAST IRON
TITE-TOP DUTCH OVEN
GRISWOLD
ERIE PA., U. S. A.
PAT' MAR. 16. 20.

No claim made to the exclusive use of the words "Cast Iron, Tite Top, Dutch Oven, Erie, Pa., U. S. A., Pat'd Mar. 16, 20" apart from the mark shown in the drawing.
Particular description of goods.—Dutch Ovens.
Claims use since about June 10, 1912.

Ser. No. 172,233. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARKT & HAMMACHER COMPANY, New York, N. Y. Filed Nov. 18, 1922.

HERO

Particular description of goods.—Carpenter's Tools, Agricultural Implements, and More Particularly Hammers, Hatchets, Bits, Saws, Borer Bits, Gimlets, Planes, Chisels, Augers, Screw Drivers, Bit Braces, Files, Hand Drills, Horse Clippers, Pliers, Axes, Hack-Saw Blades, Hack-Saw Frames, Wrenches, Vises, Glass Cutters, Nail Sets, Drawing Knives.
Claims use since 1914.

Ser. No. 172,278. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. D. D. MACGILLIVRAY, Pine Village, Ind. Filed Nov. 20, 1922.

THYRUM
GOITRE OINTMENT

A disclaimer is hereby entered covering the words "Goiter Ointment."
Particular description of goods.—Goiter Ointment.
Claims use since Aug. 30, 1921.

Ser. No. 172,409. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) A. AND G. CO., St. Louis, Mo. Filed Nov. 23, 1922.

BEAUTEEKIS

Trade-mark consists of the word "Beauteekis."
Particular description of goods.—Applicators for the Lips, More Particularly Mechanical Devices for Applying Cosmetics, Particularly Rouge, to the Lips.
Claims use since Oct. 20, 1922.

Ser. No. 172,410. (CLASS 39. CLOTHING.) SAMUEL ALEXANDER, Philadelphia, Pa. Filed Nov. 23, 1922.

QUALITY SHOES AT LOW PRICES
Alexander's

No claim made to the words "Quality Shoes at Low Prices" apart from the mark.
Particular description of goods.—Boots and Shoes Made of Leather.
Claims use since Aug. 1, 1922.

Ser. No. 172,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Nov. 25, 1922.

Closes

Particular description of goods.—Candy.
Claims use since October, 1922.

Ser. No. 172,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Nov. 25, 1922.

oppie Dildocks

Particular description of goods.—Candy.
Claims use since before 1913.

Ser. No. 172,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE GUND, doing business as Hygienic Coffee Company, Cleveland, Ohio. Filed Nov. 25, 1922.

Night Cap

Particular description of goods.—Coffee.
Claims use since Sept. 1, 1922.

Ser. No. 172,687. (CLASS 2. RECEPTACLES.) THE RAYMOND BAG COMPANY, Middletown, Ohio. Filed Nov. 29, 1922.

Raymond Rope Paper Bags

No claim made to the words "Paper Bags" except in the form and association shown in the drawing.
Particular description of goods.—Paper Receptacles.
Claims use since Aug. 14, 1922.

Ser. No. 172,701. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

TARNAC

Trade-mark consists of the word "Tarnac."
Particular description of goods.—Nickel and Alloys of Nickel in Ingots, Sheets, and Wire.
Claims use since 1908.

Ser. No. 172,702. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

FERRY

Trade-mark consists of the word "Ferry."
Particular description of goods.—Unwrought and Partly-Wrought Metals Used for Electrical Purposes.
Claims use since 1907.

Ser. No. 172,703. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

FERROZOID

Trade-mark consists of the word "Ferrozoid."
Particular description of goods.—Nickel Steel in the Form of Plates, Sheets, Bars, Rods, Wire, and the Like.
Claims use since 1909.

Ser. No. 172,704. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

CLOWRAY

Trade-mark consists of the word "Glowray."
Particular description of goods.—Nickel-Chrome Alloy, Unwrought or Partly Wrought.
Claims use since January, 1922.

Ser. No. 172,705. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

BRIGHTRAY

The trade-mark consists of the word "Brightray."
Particular description of goods.—Nickel-Chrome Alloy, Unwrought or Partly Wrought.
Claims use since 1921.

Ser. No. 172,706. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

REDRAY

Trade-mark consists of the word "Redray."
Particular description of goods.—Nickel-Chrome Alloy, Unwrought or Partly Wrought.
Claims use since 1921.

Ser. No. 172,707. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

MANGONIC

Trade-mark consists of the word "Mangonic."
Particular description of goods.—Nickel and Manganese Alloy, Unwrought or Partly Wrought.
Claims use since 1921.

Ser. No. 172,708. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

CORRONIL

Trade-mark consists of the word "Corronil."
Particular description of goods.—Nickel-Copper Alloys, Unwrought or Partly Wrought.
Claims use since February, 1922.

Ser. No. 172,709. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY WIGGIN & COMPANY LIMITED, Parade, Birmingham, England. Filed Nov. 29, 1922.

DULLRAY

Trade-mark consists of the word "Dullray."
Particular description of goods.—Nickel-Chrome-Steel Alloy, Unwrought or Partly Wrought.
Claims use since 1921.

Ser. No. 172,714. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. F. ALLINGHAM MFG. CO., Colorado Springs, Colo. Filed Dec. 1, 1922.

Bingo

Trade-mark consists of the word "Bingo."
Particular description of goods.—Puffed-Wheat Confection.
Claims use since about Aug. 29, 1922.

Ser. No. 172,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN PICKLE & CANNING COMPANY, Hattiesburg, Miss. Filed Dec. 1, 1922.

Gold Peep

Particular description of goods.—Pickles.
Claims use since Aug. 1, 1922.

Ser. No. 172,728. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES W. BRINE COMPANY, Boston, Mass. Filed Dec. 1, 1922. Under ten-year proviso.

BRINE

Particular description of goods.—Woolen Football Blankets.
Claims use since Jan. 1, 1895.

Ser. No. 172,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORACE E. HAVENS, Chicago, Ill. Filed Dec. 1, 1922.

Pnut-Ola

Particular description of goods.—Salad and Cooking Oil Made from Crushed Peanuts.
Claims use since about Nov. 10, 1922.

Ser. No. 172,743. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 1, 1922.

SHERIDAN BRAND



The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Tea.
Claims use since 1908.

Ser. No. 172,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 1, 1922.

GOOD ENOUGH

Particular description of goods.—Canned Vegetables, Canned Fish, Molasses, and Fruit Preserves.
Claims use since 1898 on canned vegetables, since July 1, 1922, on molasses and canned fish, since 1907 on fruit preserves.

Ser. No. 172,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SQUIRE AND CO. BIRMINGHAM LIMITED, Stirchley, Birmingham, England. Filed Dec. 1, 1922.

LOBELLINE

Particular description of goods.—Cough Mixture for Human Use.
Claims use since Jan. 1, 1912.

Ser. No. 172,777. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ST. LOUIS SURFACER & PAINT COMPANY, St. Louis, Mo. Filed Dec. 1, 1922.

METALSTEEL

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Varnishes.
Claims use since Oct. 31, 1903.

Ser. No. 172,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR A. ANDERSON, doing business as Arthur Anderson Fish Co., Astoria Oreg. Filed Dec. 2, 1922.

BLUE LETTER

Particular description of goods.—Canned Salmon.
Claims use since July 9, 1919.

Ser. No. 172,855. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAZARUS ALTFELD, doing business as Altfeld Drug Co., South Bend, Ind. Filed Dec. 4, 1922.

LO-TUS

Particular description of goods.—Liver Pills, Headache Tablets, Eye Balm, Uterine Tonic, and Cold and Grip Tablets.
Claims use since Aug. 1, 1920.

Ser. No. 172,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARIZONA CITRUS GROWERS' CO., Phoenix, Ariz. Filed Dec. 4, 1922.

Desert Sweet

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Oct. 24, 1922.

Ser. No. 172,867. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RAY J. DIEKEMPER, Terre Haute, Ind. Filed Dec. 4, 1922.

HOTSHOT

Particular description of goods.—Horse-Radish.
Claims use since Jan. 7, 1922.

Ser. No. 172,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FONTANA FOOD PRODUCTS COMPANY, San Francisco, Calif. Filed Dec. 4, 1922.

FONTANA'S

Particular description of goods.—Macaroni Products, Canned Fruits, Canned Vegetables, Canned Fish, Evaporated Milk, Canned Soup, Fruit Marmalades, and Pickles.
Claims use since February, 1922.

Ser. No. 172,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FOOD PRODUCTS CO., San Francisco, Calif. Filed Dec. 4, 1922.

KLUMYRNA

Particular description of goods.—Canned Fruits—Namely, Figs.
Claims use since Aug. 1, 1922.

Ser. No. 172,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHINGTON DEHYDRATED FOOD CO., Yakima, Wash. Filed Dec. 4, 1922.

WASHINGTON



The picture shown in the drawing is that of General Washington.
Particular description of goods.—Dehydrated Apples.
Claims use since October, 1918.

Ser. No. 172,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES J. SCHOPP, doing business as The Motor Schopp, St. Louis, Mo. Filed Dec. 5, 1922.



The trade-mark is printed in blue and the outlines in black and the black lines indicating shading, no claim made to the words "Carbon Destroyer" apart from the association shown.
Particular description of goods.—Chemical Carbon Destroyer.
Claims use since January, 1920.

Ser. No. 172,954. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE OSTRA CORPORATION, New York, N. Y. Filed Dec. 5, 1922.



No claim is made to the representation of the sprayers apart from the mark shown in the drawing.
Particular description of goods.—Sprayers for Medicinal Use.
Claims use since Nov. 15, 1921.

Ser. No. 172,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Filed Dec. 6, 1922.

Blue Goose

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since 1919.

Ser. No. 173,006. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OLIVER REEDER & SON, INC., proprietors of the Baltimore Copper Paint Company, Baltimore, Md. Filed Dec. 6, 1922.

REGATTA

Particular description of goods.—Paints—Namely, Dry, Paste, Semipaste, and Ready Mixed—and Varnishes.
Claims use since Apr. 5, 1922.

Ser. No. 173,028. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN BLAUL'S SONS COMPANY, Burlington, Iowa. Filed Dec. 7, 1922.



Particular description of goods.—Coffee, Tea, Food Extracts for Flavorings, Spices, Canned Fruits, Canned Vegetables, and Pork and Beans.
Claims use since May, 1893.

Ser. No. 173,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALLIGAN CANDY COMPANY, Davenport, Iowa. Filed Dec. 7, 1922.



Particular description of goods.—Candy.
Claims use since Sept. 30, 1922.

Ser. No. 173,053. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SIEGFRIED PFYFFER, Zurich, Switzerland. Filed Dec. 7, 1922.

Aluminol

Particular description of goods.—Metallic Soldering Alloys.
Claims use since April, 1918.

Ser. No. 173,114. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the words "Parchment Finish" or "Made in U. S. A." apart from the mark as shown by the drawing.
Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.
Claims use since Sept. 18, 1922.

Ser. No. 173,116. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the words "Vellum Finish" and "Made in U. S. A." apart from the mark as shown by the drawing.
Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.
Claims use since Sept. 18, 1922.

Ser. No. 173,120. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the words "Vellum Finish" apart from the mark.

Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.

Claims use since Sept. 18, 1922.

Ser. No. 173,121. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the words "Vellum Finish" apart from the mark as shown in the drawing.

Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.

Claims use since Sept. 18, 1922.

Ser. No. 173,122. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the words "Linen Finish" and "Made in U. S. A." apart from the mark as shown in the drawing.

Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.

Claims use since Aug. 1, 1904.

Ser. No. 173,131. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TADASHI D. GOMI, New York, N. Y. Filed Dec. 9, 1922.

SACUROLIN

Particular description of goods.—Medicine for Tuberculosis, Pneumonia, and Pleurisy.

Claims use since July 1, 1922.

Ser. No. 173,143. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. R. PEARCE COMPANY, Pittsburgh, Pa. Filed Dec. 9, 1922.



Particular description of goods.—Candy Confections and Sugar-Coated Fruits.

Claims use since Sept. 9, 1922.

Ser. No. 173,144. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. R. PEARCE COMPANY, Pittsburgh, Pa. Filed Dec. 9, 1922.



Particular description of goods.—Candy Confections and Sugar-Coated Fruits.

Claims use since Sept. 11, 1922.

Ser. No. 173,240. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WALTER M. NUTTING, doing business as Nutting Truck Company, Faribault, Minn. Filed Dec. 12, 1922. Under ten-year proviso.

Nutting

Particular description of goods.—Floor Trucks.

Claims use since 1892.

Ser. No. 173,306. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) A. J. STEPHENS RUBBER CO., Kansas City, Mo. Filed Dec. 13, 1922,

ADDSMILES

Particular description of goods.—Outer Tires or Coverings for Pneumatic-Tire Casings.

Claims use since Oct. 30, 1922.

Ser. No. 173,589. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. CLAY BROWN, doing business as The Bon-Quin Co., Shreveport, La. Filed Dec. 20, 1922.

BON-QUIN

Particular description of goods.—Medicinal Tonics for Keeping the System in a Healthy Condition, for the Prevention and Treatment of Chills, Malaria, Fevers, and Colds, and Rebuilding Agent.

Claims use since Sept. 18, 1922.

Ser. No. 173,649. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Dec. 21, 1922.

FARMALL

Particular description of goods.—Tractors and Attachments and Parts Thereof.

Claims use since May 9, 1922.

Ser. No. 173,678. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SHERATONE PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 21, 1922.

SHERATONE

Particular description of goods.—Finishing and Polishing Materials in the Nature of a Varnish.

Claims use since June 28, 1922.

Ser. No. 173,708. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERSTE KARLSRUHER PARFÜMERIE- & TOILETTESEIFEN-FABRIK, F. WOLFF & SOHN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Vienna, Austria. Filed Dec. 22, 1922.

Florasma

Particular description of goods.—Perfume, Toilet Water, Toilet Powder, Hair Tonic, Shampoo, Hair Oil, Face Cream, Brilliantine, and Bath Salts.

Claims use since July 22, 1909.

Ser. No. 173,828. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO., Watertown, Conn. Filed Dec. 26, 1922.

PALM BEACH

Trade-mark consists of the words "Palm Beach."
Particular description of goods.—Pure and Artificial Silk Threads.
Claims use since July 1, 1912.

Ser. No. 173,876. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business Parfumerie Caron, Paris, France. Filed Dec. 27, 1922.

LE TABAC BLOND

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since June 1, 1919.

Ser. No. 173,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France. Filed Dec. 27, 1922.

Nuit de Noel

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Oct. 15, 1922.

Ser. No. 173,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. S. B. W.-COCHRANE CORPORATION, Philadelphia, Pa. Filed Dec. 27, 1922.

COCHRANITE

Particular description of goods.—Zeolites and Base-Exchange Water-Softening Agents.
Claims use since on or about Nov. 14, 1922.

Ser. No. 173,902. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) LEATHER PRODUCTS & FINISHING CO., Los Angeles, Calif. Filed Dec. 27, 1922.

Ruf-nik

Particular description of goods.—Ring Books, Leather Coin Pouches, Leather Key Cases, and Special Leather Letter Covers.
Claims use since Nov. 28, 1922.

Ser. No. 173,904. (CLASS 15. OILS AND GREASES.) PETROLEUM PRODUCTS CO., San Francisco, Calif. Filed Dec. 27, 1922.

SEQUOIA

Particular description of goods.—Lubricating Oils and Greases, Gasoline, Motor Spirit, a Volatile Fuel Composition Derived from Petroleum, Kerosene, Distillate, Benzine.
Claims use since Feb. 10, 1916.

Ser. No. 173,910. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNICE CHALLENGER BOST, Chicago, Ill. Filed Dec. 28, 1922.

Tower Town

Particular description of goods.—Section of a Monthly Periodical.
Claims use since July, 1922.

Ser. No. 173,928. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GOTHAM CORPORATION, New York, N. Y. Filed Dec. 28, 1922.

FANGERINE

Particular description of goods.—Laxatives and Corrective Preparations.
Claims use since Oct. 27, 1922.

Ser. No. 174,020. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Dec. 30, 1922.

"MONTMARTRE"

Particular description of goods.—Silk Piece Goods.
Claims use since August, 1920.

Ser. No. 174,115. (CLASS 38. PRINTS AND PUBLICATIONS.) TOLEDO SCALE COMPANY, Jersey City, N. J., and Toledo, Ohio. Filed Jan. 2, 1923.

Topics of the Weigh

Particular description of goods.—Page in a Publication—i. e., a Page in a House Organ Issued From Time to Time.
Claims use since early in July, 1922.

Ser. No. 174,189. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTED REED GENERAL HOSPITAL, Washington, D. C. Filed Jan. 4, 1923.

The Come-Back

Particular description of goods.—Weekly Periodical.
Claims use since Apr. 9, 1919.

Ser. No. 174,345. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. L. STOUT & CO., Indianapolis, Ind., and New York, N. Y. Filed Jan. 8, 1923.

EVEROUND

Particular description of goods.—Piston Rods.
Claims use since March, 1922.

Ser. No. 174,396. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES KAPPELER, St. Paul, Minn. Filed Jan. 10, 1923.



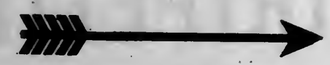
No claim is made to the words "Cow Hoof Trimmer" apart from the mark as shown.
Particular description of goods.—Cow-Hoof Trimmers.
Claims use since Dec. 26, 1922.

Ser. No. 174,413. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Jan. 10, 1923.



The trade-mark is in part colored red, as indicated by the lining on the drawing.
Particular description of goods.—Paints, Ready-Mixed, Paste Form, and Dry; Paint Enamels, Japans, Varnishes, Stains, and Fillers.
Claims use since 1893.

Ser. No. 174,478. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL LUMBER MANUFACTURERS ASSOCIATION, Washington, D. C. Filed Jan. 11, 1923.



Particular description of goods.—Lumber.
Claims use since Oct. 19, 1922.

Ser. No. 174,479. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL LUMBER MANUFACTURERS ASSOCIATION, Washington, D. C. Filed Jan. 11, 1923.



Particular description of goods.—Lumber.
Claims use since Oct. 19, 1922.

Ser. No. 174,504. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AETNA CARPET CO., New York, N. Y. Filed Jan. 12, 1923.

AETNA CARPET CO.

Particular description of goods.—Textile Carpets.
Claims use since Jan. 3, 1923.

Ser. No. 174,514. (CLASS 39. CLOTHING.) EDMONDS SHOE COMPANY, Milwaukee, Wis. Filed Jan. 12, 1923.

Roadster

Particular description of goods.—Leather Shoes.
Claims use since about Dec. 1, 1922.

Ser. No. 174,550. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEINER BROTHERS, INC., New York, N. Y. Filed Jan. 12, 1923.

STRYPETTE

Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 24, 1922.

Ser. No. 174,703. (CLASS 37. PAPER AND STATIONERY.) STANDARD PAPER MANUFACTURING CO., Richmond, Va. Filed Jan. 17, 1923.

SuperPlate

Particular description of goods.—Blotting Paper.
Claims use since 1905.

Ser. No. 174,704. (CLASS 37. PAPER AND STATIONERY.) STANDARD PAPER MANUFACTURING CO., Richmond, Va. Filed Jan. 17, 1923.

Defender

Particular description of goods.—Blotting Paper.
Claims use since 1905.

Ser. No. 174,723. (CLASS 12. CONSTRUCTION MATERIALS.) SAMUEL A. BLAIR, doing business as Blair Lumber Company, New York, N. Y. Filed Jan. 18, 1923.

NOMOLATH

Particular description of goods.—Wall or Plaster Board.
Claims use since Dec. 1, 1922.

Ser. No. 174,827. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ENTERPRISE PAINT MFG. CO., Chicago, Ill. Filed Jan. 20, 1923.

ZINK-A-LITE

Particular description of goods.—Ready-Mixed and Paste Paints, Varnishes, and Paint Enamels.
Claims use since 1915.

Ser. No. 174,829. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ENTERPRISE PAINT MFG. CO., Chicago, Ill. Filed Jan. 20, 1923.

REPUBLIC

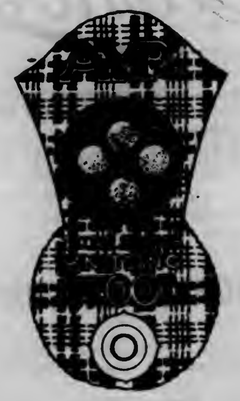
Particular description of goods.—Ready-Mixed and Paste Paints, Varnishes, and Paint Enamels.
Claims use since 1906.

Ser. No. 174,868. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Jan. 20, 1923.

PHARAOH

Particular description of goods.—Silk Piece Goods.
Claims use since Dec. 21, 1922.

Ser. No. 174,870. (CLASS 43. THREAD AND YARN.) JAMES TEMPLETON & SON, LTD., Ayr, Scotland. Filed Jan. 20, 1923.



The lettering is disclaimed apart from the mark as shown.
Particular description of goods.—Knitting Wool.
Claims use since May 4, 1921.

Ser. No. 174,891. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) C. N. CRAMER CO., Ashland, Wis. Filed Jan. 22, 1923.

MADELINE

Particular description of goods.—Brooms.
Claims use since Jan. 1, 1922.

Ser. No. 174,896. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GELLMAN WRENCH CORPORATION, Chicago, Ill. Filed Jan. 22, 1923.



Polly

The lining expresses shading.
Particular description of goods.—Wrenches.
Claims use since Nov. 1, 1922.

Ser. No. 174,927. (CLASS 38. PRINTS AND PUBLICATIONS.) BURTON T. SHIELDS, doing business as Shields and Hopkins Company, Indianapolis, Ind. Filed Jan. 22, 1923.

THE HEALTH BUILDER

Particular description of goods.—Periodical Publications.
Claims use since June, 1922.

Ser. No. 174,973. (CLASS 38. PRINTS AND PUBLICATIONS.) THE OKLAHOMA PUBLISHING COMPANY, Oklahoma, Okla. Filed Jan. 23, 1923.

OKLAHOMA CITY TIMES

Trade-mark "Oklahoma City Times."
Particular description of goods.—Daily Newspaper.
Claims use since April, 1889.

Ser. No. 174,986. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass. Filed Jan. 24, 1923. Under ten-year proviso.

FALLS CITY

Particular description of goods.—Shovels, Spades, and Scoops.
Claims use since 1883.

Ser. No. 175,033. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION CUTLERY CO., Olean, N. Y. Filed Jan. 24, 1923.

BLACKFOOT

Particular description of goods.—Razors.
Claims use since Nov. 6, 1920.

Ser. No. 175,127. (CLASS 38. PRINTS AND PUBLICATIONS.) BELLINGHAM PUBLISHING COMPANY, Bellingham, Wash. Filed Jan. 26, 1923.

THE BELLINGHAM HERALD

Particular description of goods.—Afternoon Newspaper, The Bellingham Herald, Published Daily Except Sunday.
Claims use since about Jan. 1, 1890.

Ser. No. 175,128. (CLASS 38. PRINTS AND PUBLICATIONS.) BELLINGHAM PUBLISHING COMPANY, Bellingham, Wash. Filed Jan. 26, 1923.

THE BELLINGHAM REVEILLE
(Successor to The American-Reveille)

Particular description of goods.—Morning Newspaper, The Bellingham Reveille (Successor to American Reveille), Published Sunday and Daily Except Monday of Each Week.
Claims use since June 1, 1921.

Ser. No. 175,152. (CLASS 38. PRINTS AND PUBLICATIONS.) THE OKLAHOMA PUBLISHING COMPANY, Oklahoma, Okla. Filed Jan. 26, 1923.

THE DAILY OKLAHOMAN

Trade-mark "The Daily Oklahoman."
Particular description of goods.—Daily Newspaper.
Claims use since 189[illegible].

Ser. No. 175,171. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TAINTOR COMPANY, New York, N. Y. Filed Jan. 26, 1923. Under ten-year proviso.

TAINTOR'S

Trade-mark consists of the word "Taintor's."
Particular description of goods.—Whiting.
Claims use since on or about Dec. 1, 1892.

Ser. No. 175,232. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ASSOCIATED TEXTILE MANUFACTURERS, INC., New York, N. Y. Filed Jan. 29, 1923.



The lining and dotting on the drawing are intended to show the colors red, yellow, blue, brown.
Particular description of goods.—Manufactured Textile Fabrics of Silk, Wool, Cotton, and Mixtures of the Same.
Claims use since Oct. 2, 1922.

Ser. No. 175,254. (CLASS 39. CLOTHING.) A. E. LITTLE COMPANY, Lynn, Mass. Filed Jan. 29, 1923.

"Answer"

Particular description of goods.—Boots and Shoes Made of Leather or Leather and Cloth.
Claims use since Sept. 1, 1922.

Ser. No. 175,259. (CLASS 39. CLOTHING.) MELANSON SHOE COMPANY, Lynn, Mass. Filed Jan. 29, 1923.

SCHOOLCRAFT

Particular description of goods.—Leather Shoes.
Claims use since April, 1921.

Ser. No. 175,307. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Jan. 30, 1923. Under ten-year proviso.

Deane's

Particular description of goods.—Antiseptic Dressings and Absorbent and Medicated Cottons and Gauzes, Plain Medicated and Adhesive Bandages.
Claims use since 1883.

Ser. No. 175,323. (CLASS 38. PRINTS AND PUBLICATIONS.) POST-TIME PUBLISHING CO., INC., New York, N. Y. Filed Jan. 30, 1923.

TRACK BULLETIN

Trade-mark consists of the words "Track Bulletin."
Particular description of goods.—Triweekly and Daily Publication.
Claims use since January, 1922.

Ser. No. 175,340. (CLASS 37. PAPER AND STATIONERY.) CALIFORNIA CARD MANUFACTURING CO., San Francisco, Calif. Filed Jan. 31, 1923.

Calcard

Particular description of goods.—Photographic Mountings.
Claims use since July 1, 1912.

Ser. No. 175,358. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE KOLBE PAINT COMPANY, Cincinnati, Ohio. Filed Jan. 31, 1923.



Particular description of goods.—Ready-Mixed Paints, House Paints for Interior and Exterior Application, Paint Enamels, Varnishes, Stains, Fillers, and Varnish Stains.
Claims use since Jan. 24, 1923.

Ser. No. 175,400. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. KIRSCH & CO., Brooklyn, N. Y. Filed Feb. 1, 1923.

GOLDEN DWARF

Particular description of goods.—Ginger Ale, Sarsaparilla, Cream Soda, Celery, Orange, Grape, and Similar Beverages, All Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Dec. 1, 1909.

Ser. No. 175,411. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SOCIETY CLUB BEVERAGE CORPORATION, Newark, N. J. Filed Feb. 1, 1923.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1922.

Ser. No. 175,445. (CLASS 2. RECEPTACLES.) ST. REGIS PAPER CO., Watertown, N. Y. Filed Feb. 2, 1923.

TARZAN

Particular description of goods.—Fiber Shipping Cases.
Claims use since Feb. 1, 1921.

Ser. No. 175,491. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SARAH A. HARRISON, Omaha, Nebr. Filed Feb. 3, 1923.

NAP-HOLD

Particular description of goods.—Sanitary Napkin Holders.
Claims use since Jan. 1, 1922.

Ser. No. 175,518. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Feb. 3, 1923.

PLASCO

Particular description of goods.—Liquid and Paste Paints.
Claims use since Jan. 3, 1923.

Ser. No. 175,539. (CLASS 37. PAPER AND STATIONERY.) ALLER BROTHERS, Chicago, Ill. Filed Feb. 3, 1923.



No claim is made to the words "Quality" and "Quantity" apart from the mark as shown. The shading in the drawing indicates gold and green, respectively.
Particular description of goods.—Paper Tablets, Composition Books, Blank Books, Pads, Papeteries, Correspondence Paper, Envelopes.
Claims use since January, 1920.

Ser. No. 175,584. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass. Filed Feb. 5, 1923.

RUBBERTITE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids.
Claims use since on or about Jan. 1, 1921.

Ser. No. 175,630. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VALENTINE & BUNKER, New York, N. Y. Filed Feb. 6, 1923.

Tu-tank-ha-men

Particular description of goods.—Textile Fabrics—Namely, Silk Piece Goods and Silk-Mixed Piece Goods.
Claims use since Dec. 18, 1922.

Ser. No. 175,760. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE BEATON & CADWELL MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 9, 1923.



Particular description of goods.—Mops and Mopsticks.
Claims use since 1910.

Ser. No. 175,763. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Feb. 9, 1923.

Nedletex

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Dec. 12, 1922.

Ser. No. 175,765. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Feb. 9, 1923.

Nedleton

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Dec. 12, 1922.

Ser. No. 175,767. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Feb. 9, 1923.

Arabllam

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 12, 1923.

Ser. No. 175,771. (CLASS 2. RECEPTACLES.) FREDERICK T. CONLEY, doing business as Symbolox Box Co., South Boston, Mass. Filed Feb. 9, 1923.

SYMBOLOX

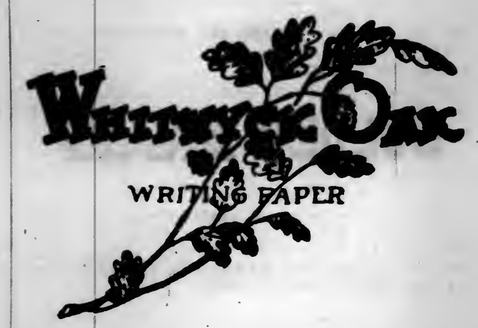
Particular description of goods.—Toothbrush Containers.
Claims use since Jan. 15, 1923.

Ser. No. 175,772. (CLASS 45. BEVERAGES, NON ALCOHOLIC.) THE PAUL DE LANEY CO. INC., Brocton, N. Y. Filed Feb. 9, 1923.

ROOF GARDEN

Particular description of goods.—Grape Juice and Apple Juice.
Claims use since March, 1922.

Ser. No. 175,827. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Feb. 9, 1923.



No claim is made to the exclusive use of the words "Writing Paper" apart from the mark shown in the drawing.
Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.
Claims use since Oct. 2, 1922.

Ser. No. 175,855. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WILIAM H. FISHER, doing business as Fisher Manufacturing Co., Brockton, Mass. Filed Feb. 10, 1923.

FISCO

Particular description of goods.—Mops and Mop Handles.
Claims use since Jan. 9, 1923.

Ser. No. 175,914. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Feb. 12, 1923.



The trade-mark consists of a black tip encircled by a white band.
Particular description of goods.—Lead Pencils, Pencil-Point Protectors, and Penholders.
Claims use since about Dec. 1, 1922.

Ser. No. 176,043. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PROGRESS PAINT MFG. CO., Louisville, Ky. Filed Feb. 14, 1923.

GRAY-SEAL

Particular description of goods.—Wagon Paint, Fiber Roof Paint, Varnish, Paint Enamel, Porch-Floor Paint, Flat Wall Finish, Penetrating Stain, and Ready-Mixed Paints.
Claims use since September, 1918.

Ser. No. 176,064. (CLASS 15. OILS AND GREASES.) HERMAN BUNGE, Elgin, Ill. Filed Feb. 15, 1923.

"NONE SUCH"

Particular description of goods.—Gasoline and Lubricating Oils.
Claims use since Nov. 1, 1922.

Ser. No. 176,072. (CLASS 2. RECEPTACLES.) CON-O-LITE CORPORATION, Cortland, N. Y. Filed Feb. 15, 1923.

CON-O-LITE

Particular description of goods.—Burial Vaults.
Claims use since Dec. 6, 1922.

Ser. No. 176,172. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FORST PRODUCTS CO., INC., New Orleans, La. Filed Feb. 17, 1923.

GRAPDEL

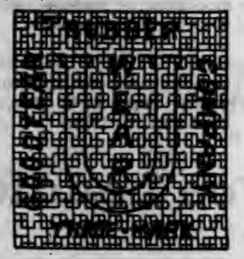
Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Flavoring Sirups, Bottlers' Concentrates, and Extracts Used in Preparation of the Same.
Claims use since Dec. 24, 1922.

Ser. No. 176,217. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JAMES ROBERT REYNOLDS, doing business as Soldiers Bonus Products Co., Chicago, Ill. Filed Feb. 17, 1923.

Soldiers Bonus

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in the Preparation of Same.
Claims use since Dec. 15, 1922.

Ser. No. 176,338. (CLASS 39. CLOTHING.) GOODYEAR RUBBER COMPANY, Middletown, Conn. Filed Feb. 20, 1923.



No claim made for the word "Trade-Mark" or the name "Goodyear Rubber Company" apart from the mark as shown, the particular shading or cross-hatching of the mark as a whole therein serving to indicate the color yellow as a part of the mark.
Particular description of goods.—Rubber Boots and Shoes and Arctic Overshoes.
Claims use since Jan. 18, 1923.

Ser. No. 176,351. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KEYSTONE VARNISH COMPANY, Brooklyn, N. Y. Filed Feb. 20, 1923.

'TREAT IT ROUGH'

Particular description of goods.—Preparation to be Used in the Manufacture of Floor Paints, Enamels, Fillers, and as a Finishing Varnish, Both Interior and Exterior.
Claims use since Feb. 23, 1921.

Ser. No. 176,387. (CLASS 39. CLOTHING.) WEYENBERG SHOE MFG. CO., Milwaukee, Wis. Filed Feb. 20, 1923.

COMFLEX

The trade-mark consists of the word "Comflex."
Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since Sept. 18, 1922.

Ser. No. 176,389. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Feb. 20, 1923.

Wee Lassie

Particular description of goods.—Toothbrushes.
Claims use since about Apr. 5, 1920.

Ser. No. 176,390. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Feb. 20, 1923.

LITTLE CORPORAL

Particular description of goods.—Toothbrushes.
Claims use since about May 1, 1920.

Ser. No. 176,391. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Feb. 20, 1923.

Wee Laddie

Particular description of goods.—Toothbrushes.
Claims use since about Apr. 5, 1920.

Ser. No. 176,396. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK BOWNES COMPANY, INC., Lynn, Mass. Filed Feb. 21, 1923.



No claim is made to the word "Enamel" apart from the mark as shown in the drawing.
Particular description of goods.—Paint Enamels To Be Used on All Interior and Exterior Surfaces.
Claims use since November, 1922.

Ser. No. 176,766. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Feb. 28, 1923.

"THINSTRAP"

Particular description of goods.—Ophthalmic-Lens Blanks.
Claims use since June 26, 1922.

Ser. No. 176,767. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Feb. 28, 1923.

FIVE POINT



Particular description of goods.—Ophthalmic Lenses and Blanks.
Claims use since June 26, 1922.

Ser. No. 176,868. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed Mar. 3, 1923.

AGRINITE

Particular description of goods.—Fertilizer.
Claims use since Jan. 1, 1922.

Ser. No. 176,999. (CLASS 43. THREAD AND YARN.) WM. H. HORSTMANN COMPANY, Philadelphia, Pa. Filed Mar. 5, 1923.



Particular description of goods.—Yarn.
Claims use since Jan. 19, 1923.

Ser. No. 177,075. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Mar. 7, 1923.

BIRD'S EYE

Particular description of goods.—Matches.
Claims use since April, 1905.

Ser. No. 177,076. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Mar. 7, 1923.



Particular description of goods.—Matches.
Claims use since 1912.

Ser. No. 177,077. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Mar. 7, 1923.



Particular description of goods.—Matches.
Claims use since March, 1913.

Ser. No. 177,078. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Mar. 7, 1923. Under ten-year proviso.

RED TOP

Particular description of goods.—Matches.
Claims use since 1891.

Ser. No. 177,139. (CLASS 33. GLASSWARE.) MOUNTAIN STATE GLASS CO., Mannington, W. Va. Filed Mar. 8, 1923.

MOUNTAINEER BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Window Glass.
Claims use since about Feb. 1, 1923.

Ser. No. 177,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAROLINA REMEDIES COMPANY, Union, S. C. Filed Mar. 12, 1923.

CARO VET

Particular description of goods.—Egg Producer and Poultry Tonic.
Claims use since Nov. 5, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 17, 1923.

166,782. CUTLERY—NAMELY, POCKETKNIVES, KITCHEN KNIVES, TABLE KNIVES OF BASE METAL; SCISSORS, RAZORS, AND RAZOR BLADES. EDWARD WECK & SON, INC., New York, N. Y.
Filed March 29, 1922. Serial No. 161,471. PUBLISHED DECEMBER 5, 1922.

166,783. NONMETALLIC GEAR WHEELS AND GEAR-WHEEL BLANKS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed March 24, 1922. Serial No. 161,181. PUBLISHED JANUARY 23, 1923.

166,784. COTTON SHEETING. AMERICAN COMPANY FOR INTERNATIONAL COMMERCE, New York, N. Y.
Filed March 23, 1922. Serial No. 161,102. PUBLISHED JULY 25, 1922.

166,785. DRESS, NEGLIGEE, AND WORK SHIRTS AND COLLARS AND CUFFS. R. M. MOODY, London, England.
Filed March 9, 1922. Serial No. 160,423. PUBLISHED JANUARY 9, 1923.

166,786. TWIST DRILLS, MILLING CUTTERS, AND REAMERS. AMERICAN MACHINE PRODUCTS CO., Detroit, Mich.
Filed March 8, 1922. Serial No. 160,106. PUBLISHED SEPTEMBER 12, 1922.

166,787. COLLARS FOR PERSONAL WEAR. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed March 2, 1922. Serial No. 160,053. PUBLISHED JANUARY 9, 1923.

166,788. RUBBER CRIB SHEETS, RUBBER BABY PANTS, RUBBER SANITARY APRONS, RUBBER CATAMENIAL-NAPKIN HOLDERS, AND RUBBER SANITARY BELTS. THE SANIMO COMPANY, St. Louis, Mo.
Filed February 20, 1922. Serial No. 159,629. PUBLISHED JANUARY 30, 1923.

166,789. CORNCOB TOBACCO SMOKING PIPES. HIRSCHL & BENDHEIM, Washington, Mo.
Filed February 14, 1922. Serial No. 159,313. PUBLISHED JUNE 18, 1922.

166,790. TIN AND TERNE PLATES AND SHEETS. BALDWINS LIMITED, London, England.
Filed January 25, 1922. Serial No. 158,415. PUBLISHED JANUARY 16, 1923.

166,791. OILS AND GREASES. EARL F. HARTZELL, Pittsburgh, Pa.
Filed January 9, 1922. Serial No. 157,667. PUBLISHED JANUARY 30, 1923.

166,792. BOILED HAMS, SUGAR-CURED MEATS, LARD, AND PORK SAUSAGE. BOISE BUTCHER COMPANY LTD., Boise, Idaho.
Filed December 16, 1921. Serial No. 156,775. PUBLISHED JANUARY 30, 1923.

166,793. NONFERROUS PIPES FOR POWER WATER-INLET PIPING. SOCIÉTÉ MARCEL BASSOT & CIE., Paris, France.
Filed December 15, 1921. Serial No. 156,758. PUBLISHED JANUARY 16, 1923.

166,794. WOODEN WEDGE BLOCKS FOR LEVELING, HOLDING, AND SIMILAR USES. SIBYL A. SCOTT, New York, N. Y.
Filed October 21, 1921. Serial No. 154,420. PUBLISHED JANUARY 9, 1923.

166,795. LAXATIVE CONFECTION. MARIANO MORVILLO, doing business as Prune Co., New York, N. Y.
Filed September 9, 1921. Serial No. 152,764. PUBLISHED JANUARY 23, 1923.

166,796. CERTAIN TOOLS. CHAMPION TOOL COMPANY, Meadville, Pa.
Filed August 31, 1921. Serial No. 152,419. PUBLISHED AUGUST 1, 1922.

166,797. TOOL STEEL. VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa.
Filed August 27, 1921. Serial No. 152,292. PUBLISHED JANUARY 9, 1923.

166,798. PLUMBING, STEAM-FITTING, AND HARDWARE SUPPLIES—NAMELY, CLOSETS, WASHBOWLS, CLOSET BOWLS, HOPPERS; CLOSET TANKS. HOLBROOK, MERRILL & STETSON, San Francisco and Los Angeles, Calif.
Filed July 18, 1921. Serial No. 150,531. PUBLISHED JANUARY 9, 1923.

166,799. COLORING AND CONSERVING MEANS IN THE NATURE OF A PAINT FOR LEATHER, IRON, AND WOOD. THE CHROMOL MANUFACTORY OF CHEMICAL PRODUCTS, LTD., Vienna, Austria.
Filed October 27, 1920. Serial No. 138,847. PUBLISHED MAY 9, 1922.

166,800. WRAPPING PAPER. THE SEISSHEIMER PAPER COMPANY, Cincinnati, Ohio.
Filed October 8, 1920. Serial No. 138,110. PUBLISHED FEBRUARY 1, 1921.

166,801. LUBRICATING OILS, INCLUDING ENGINE OIL, GAS-ENGINE OIL, CYLINDER OIL, ICE-MACHINE OIL, TRANSMISSION OIL, AND AUTOMOBILE OIL. THE VICTOR OIL COMPANY, Cleveland, Ohio.
Filed March 18, 1920. Serial No. 129,916. PUBLISHED FEBRUARY 14, 1922.

166,802. LEATHER SHOES. ENDICOTT-JOHNSON CORPORATION, Endicott, N. Y.
Filed August 21, 1922. Serial No. 168,520. PUBLISHED JANUARY 9, 1923.

166,803. CIGARETTE AND TOBACCO MACHINERY. COMAS CIGARETTE MACHINE COMPANY, Salem, Va.
Filed August 19, 1922. Serial No. 168,451. PUBLISHED JANUARY 23, 1923.

166,804. RAZOR AND RAZOR BLADES. THE TAU-WAY RAZOR COMPANY, Pittsburgh, Pa.
Filed August 14, 1922. Serial No. 168,228. PUBLISHED JANUARY 23, 1923.

166,805. GARTERS. ANNA F. BRANDEAU, Chicago, Ill.
Filed August 14, 1922. Serial No. 168,200. PUBLISHED JANUARY 9, 1923.

166,806. GARTERS. ANNA F. BRANDEAU, Chicago, Ill.
Filed August 14, 1922. Serial No. 168,199. PUBLISHED JANUARY 9, 1923.

166,807. VIBRATING DEVICES—NAMELY, BUTTER CHURNS. STANDARD VIBRATING CHURN COMPANY, Chicago, Ill.
Filed August 12, 1922. Serial No. 168,176. PUBLISHED JANUARY 23, 1923.

166,808. DUPLICATING MACHINES AND PARTS THEREOF. A. B. DICK COMPANY, Chicago, Ill.
Filed August 8, 1922. Serial No. 167,937. PUBLISHED JANUARY 23, 1923.

166,809. CAPS. HARRY LEONARD JACOBS, Detroit, Mich.
Filed August 7, 1922. Serial No. 167,877. PUBLISHED JANUARY 9, 1923.

166,810. PRINTING PRESSES AND PARTS THEREOF. THE CHANDLER & PRICE COMPANY, Cleveland, Ohio.
Filed August 4, 1922. Serial No. 167,801. PUBLISHED JANUARY 23, 1923.

166,811. HAIR NETS. WEST ELECTRIC HAIR CURLER COMPANY, Philadelphia, Pa.
Filed July 29, 1922. Serial No. 167,591. PUBLISHED JANUARY 23, 1923.

166,812. VALVES. FREDERICK C. HEYLMAN, Martinez, Calif.
Filed July 29, 1922. Serial No. 167,566. PUBLISHED JANUARY 23, 1923.

166,813. RAISINS. JAMES T. WETHERALD, Pasadena, Calif.
Filed July 26, 1922. Serial No. 167,440. PUBLISHED FEBRUARY 6, 1923.

166,814. NUTS AND BOLTS. VISLOK LIMITED, London, England.
Filed July 26, 1922. Serial No. 167,438. PUBLISHED JANUARY 16, 1923.

166,815. LADIES' TRIMMED AND TAILORED HATS. EDMUND UHRY, New York, N. Y.
Filed July 22, 1922. Serial No. 167,276. PUBLISHED JANUARY 9, 1923.

166,816. ICE CREAM. ERIE COUNTY MILK ASSOCIATION, Erie, Pa.
Filed July 22, 1922. Serial No. 167,237. PUBLISHED FEBRUARY 6, 1923.

166,817. LADIES' HATS. GAGE BROTHERS & COMPANY, Chicago, Ill.
Filed July 20, 1922. Serial No. 167,124. PUBLISHED JANUARY 9, 1923.

166,818. EGG BEATERS AND CREAM WHIP. METAL GOODS MANUFACTURING CO., Boston, Mass.
Filed July 18, 1922. Serial No. 167,050. PUBLISHED JANUARY 9, 1923.

166,819. PUMPING EQUIPMENT AND WATER SYSTEMS. FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind.
Filed July 15, 1922. Serial No. 166,942. PUBLISHED JANUARY 23, 1923.

166,820. BONNETS, HATS, AND CAPS PARTICULARLY ADAPTED FOR WEAR BY WOMEN, MISSES, AND CHILDREN. LILLIAN R. STAMPHER, Dover, N. J.
Filed July 11, 1922. Serial No. 166,750. PUBLISHED JANUARY 9, 1923.

166,821. STAINS, VARNISHES, AND ENAMELS FOR WOOD, AND FURNITURE AND FLOOR POLISHES. THE CHISWICK POLISH COMPANY, LTD., Chiswick, London, England.
Filed July 6, 1922. Serial No. 166,524. PUBLISHED JANUARY 9, 1923.

166,822. KNIVES AND SCISSORS. JOHANNES FRIEDRICH, doing business as Louis Perlmann, Leipzig, Germany.
Filed July 3, 1922. Serial No. 166,444. PUBLISHED JANUARY 23, 1923.

166,823. POTASSIUM PHOSPHATE AS WELL AS GENERAL MIXED FERTILIZERS AND HIGHLY-CONCENTRATED PLANT FOOD. INDUSTRIAL CHEMICAL & FERTILIZER COMPANY, Brunswick, Ga.
Filed December 26, 1922. Serial No. 173,831. PUBLISHED FEBRUARY 13, 1923.

166,824. BOND PAPER. WEBER LITHOGRAPHING CO., Chicago, Ill.
Filed December 4, 1922. Serial No. 172,922. PUBLISHED FEBRUARY 6, 1923.

166,825. STATIONERY ENVELOPE BLANKS. THE WORKMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed November 11, 1922. Serial No. 171,882. PUBLISHED FEBRUARY 6, 1923.

166,826. TEXTILE FABRICS CONSISTING OF COTTON, WOOLEN, AND SILK PIECE GOODS. W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif.
Filed October 27, 1922. Serial No. 171,269. PUBLISHED FEBRUARY 6, 1923.

166,827. RUBBER OR COMPOSITION HEELS AND SOLES FOR BOOTS AND SHOES. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 19, 1922. Serial No. 170,934. PUBLISHED JANUARY 23, 1923.

166,828. NIPPLES. VICTOR LOEWENBERG, doing business as Victor Specialty Company, New York, N. Y.
Filed October 18, 1922. Serial No. 170,918. PUBLISHED JANUARY 30, 1923.

166,829. WOMEN'S SHOES MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. LOUIS BERNSTEIN, doing business as Bernstein Shoe Co., New York, N. Y.
Filed Oct. 18, 1922. Serial No. 170,862. PUBLISHED JANUARY 23, 1923.

166,830. RAZORS. MAX SCHMIDT, doing business as Peter Ludwig Schmidt, Elberfeld, Germany.
Filed Oct. 16, 1922. Serial No. 170,792. PUBLISHED JANUARY 23, 1923.

166,831. READY-MIXED WALL PAINT. RASMUSSEN & CO., Portland, Oreg.
Filed October 13, 1922. Serial No. 170,695. PUBLISHED JANUARY 30, 1923.

166,832. MALT AND CORN SIRUP USED IN THE MANUFACTURE OF NONALCOHOLIC MALT BEVERAGES. EDWIN M. BLUMENTHAL, doing business as E. M. Blumenthal & Co., Chicago, Ill.
Filed October 13, 1922. Serial No. 170,678. PUBLISHED JANUARY 9, 1923.

166,833. SHOVELS, SPADES, AND SCOOPS. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass.
Filed October 6, 1922. Serial No. 170,348. PUBLISHED JANUARY 9, 1923.

166,834. DRAIN VALVES. STEVE PAVITCHICH, Woodriver, Ill.
Filed October 2, 1922. Serial No. 170,208. PUBLISHED JANUARY 23, 1923.

166,835. BOOTS AND SHOES OF KID, CANVAS, AND LEATHER. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo.
Filed October 2, 1922. Serial No. 170,200. PUBLISHED JANUARY 23, 1923.

166,836. CERTAIN NAMED TOOLS. THE KEYSTONE MANUFACTURING CO., Buffalo, N. Y.
Filed September 20, 1922. Serial No. 169,716. PUBLISHED JANUARY 9, 1923.

166,837. GRAPE JUICE. WIRTH-CONCORDADE COMPANY, Providence, R. I.
Filed September 18, 1922. Serial No. 169,662. PUBLISHED JANUARY 30, 1923.

166,838. TOOL STEEL. DARWIN & MILNER, INC., Cleveland, Ohio.
Filed September 16, 1922. Serial No. 169,535. PUBLISHED JANUARY 9, 1923.

166,839. MEN'S AND BOYS' HATS AND CAPS. ROGERS PEET COMPANY, New York, N. Y.
Filed September 5, 1922. Serial No. 169,084. PUBLISHED JANUARY 9, 1923.

166,840. GASOLINE SAVERS OR DEVICES FOR SUPPLYING WATER VAPOR TO INTERNAL-COMBUSTION ENGINES. FRANK A. DIODATO, doing business as Buffalo Novelty Company, Buffalo, N. Y.
Filed September 2, 1922. Serial No. 169,011. PUBLISHED JANUARY 9, 1923.

166,841. BABBITT, BEARING, AND ANTIFRICTION METALS AND ALLOYS. MAGNOLIA METAL COMPANY, New York, N. Y.
Filed August 31, 1922. Serial No. 168,929. PUBLISHED JANUARY 9, 1923.

166,842. CARBURETORS. WAGNER RESEARCH SOCIETY, Cincinnati, Ohio.
Filed August 30, 1922. Serial No. 168,909. PUBLISHED JANUARY 23, 1923.

166,843. POCKETKNIVES, PENKNIVES, DIRKS, RAZORS, AND INK ERASERS. THE NOVELTY CUTLERY COMPANY, Canton, Ohio.
Filed August 28, 1922. Serial No. 168,781. PUBLISHED JANUARY 23, 1923.

166,844. PISTON PINS. MILWAUKEE SCREW PRODUCTS Co., Milwaukee, Wis.
Filed August 28, 1922. Serial No. 168,778. PUBLISHED JANUARY 23, 1923.

166,845. SILK, WOOL, COTTON, LINEN PIECE GOODS AND COMBINATIONS THEREOF. MERIDIAN TEXTILE CORPORATION, New York, N. Y.
Filed July 1, 1922. Serial No. 166,392. PUBLISHED AUGUST 8, 1922.

166,846. MEN'S AND BOYS' HATS. GREATER N. Y. HAT & CAP WORKS, New York, N. Y.
Filed June 29, 1922. Serial No. 166,229. PUBLISHED JANUARY 9, 1923.

166,847. KNITTED CAPS. BROADWAY KNITTING MILLS, New York, N. Y.
Filed June 24, 1922. Serial No. 165,984. PUBLISHED JANUARY 9, 1923.

166,848. TABLE FLATWARE OF BASE METAL, DOMESTIC AND INDUSTRIAL KNIVES, SCISSORS, SHEARS AND RAZORS. GOTTLIEB HAMMESFAHR, Solingen-Foche, Germany.
Filed June 23, 1922. Serial No. 165,951. PUBLISHED JANUARY 23, 1923.

166,849. IMPLEMENTS FOR WEIGHING LIQUIDS AND SEMISOLIDS. ALGERNON E. CLARKE, Grand Rapids, Mich.
Filed June 19, 1922. Serial No. 165,662. PUBLISHED JANUARY 23, 1923.

166,850. CRUSHERS, SHREDDERS, BREAKERS, PULVERIZERS, AND GRINDERS. GRUENDLER PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo.
Filed June 12, 1922. Serial No. 165,372. PUBLISHED JANUARY 23, 1923.

166,851. CIGAR AND CIGARETTE CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed June 12, 1922. Serial No. 165,366. PUBLISHED JANUARY 30, 1923.

166,852. STEEL SHOE SHANKS. MARK CANGEN, doing business as M. Cangen & Co., Brooklyn, N. Y.
Filed June 10, 1922. Serial No. 165,272. PUBLISHED JANUARY 16, 1923.

166,853. CHAMPAGNE WINES AND OTHER SPARKLING WINES, WHETHER SPARKLING OR RENDERED SPARKLING ARTIFICIALLY. SOCIETE VINICOLE DE CHAMPAGNE, Paris, France.
Filed June 8, 1922. Serial No. 165,212. PUBLISHED JANUARY 30, 1923.

166,854. CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. SANDERSON BROTHERS & NEWBOULD, LIMITED, Sheffield, England.
Filed May 22, 1922. Serial No. 164,276. PUBLISHED JANUARY 16, 1923.

166,855. CERTAIN NAMED ELECTRICAL APPLIANCES MADE OF HARD RUBBER. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed May 22, 1922. Serial No. 164,214. PUBLISHED AUGUST 29, 1922.

166,856. GRAY-IRON CASTINGS. AUGUSTUS F. MEEHAN, Chattanooga, Tenn.
Filed May 20, 1922. Serial No. 164,177. PUBLISHED JANUARY 16, 1923.

166,857. SHOES OF LEATHER. BUCKINGHAM & HECHT, San Francisco, Calif.
Filed May 18, 1922. Serial No. 164,020. PUBLISHED JANUARY 9, 1923.

166,858. SUCKER RODS. THE S. M. JONES COMPANY, Toledo, Ohio.
Filed May 15, 1922. Serial No. 163,874. PUBLISHED JANUARY 23, 1923.

166,859. CERTAIN NAMED TOOLS AND MACHINES. CHERRY-BASSETT-WINNER COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed May 12, 1922. Serial No. 163,740. PUBLISHED JANUARY 23, 1923.

166,860. CERTAIN NAMED HARDWARE. THE JOHN KRODER AND HENRY REUBEL COMPANY, New York, N. Y.
Filed May 9, 1922. Serial No. 163,584. PUBLISHED JANUARY 23, 1923.

166,861. CORSETS, WAISTS, BRASSIÈRES, AND GIRDLE BRASSIÈRES. THE FERRIS BROS. CO., New York, N. Y.
Filed May 9, 1922. Serial No. 163,576. PUBLISHED JANUARY 9, 1923.

166,862. MEN'S AND BOYS' SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed May 9, 1922. Serial No. 163,566. PUBLISHED JANUARY 9, 1923.

166,863. MEN'S, YOUTHS', AND BOYS' SUITS, AND MEN'S, YOUTHS', AND BOYS' OVERCOATS, INCLUDING RAINCOATS NOT MADE OF RUBBER. SANGER BROTHERS, INC., Dallas, Tex., and New York, N. Y.
Filed May 3, 1922. Serial No. 163,293. PUBLISHED OCTOBER 24, 1922.

166,864. MEN'S HATS. G. B. BORSALINO FU LAZZARO & C., Alessandria, Italy.
Filed May 1, 1922. Serial No. 163,136. PUBLISHED JANUARY 9, 1923.

166,865. CHOCOLATES, CANDY, COCOA, CHOCOLATE, AND CANDIES. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah.
Filed May 9, 1922. Serial No. 163,589. PUBLISHED FEBRUARY 6, 1923.

166,866. MACARONI, SPAGHETTI, VERMICELLI, NOODLES, AND CUT MACARONI. UNION MACARONI COMPANY, Beaumont, Tex.
Filed May 8, 1922. Serial No. 163,554. PUBLISHED JANUARY 30, 1923.

166,867. CHOCOLATE-COVERED ICE-CREAM BAR. CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill.
Filed May 4, 1922. Serial No. 163,327. PUBLISHED DECEMBER 19, 1922.

166,868. SALAD DRESSING. MAHONEY & SAXTON, North Adams, Mass.
Filed May 3, 1922. Serial No. 163,279. PUBLISHED FEBRUARY 6, 1923.

166,869. KNITTED SILK FABRICS—VIZ, SILK KNITTED CLOTH. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed May 3, 1922. Serial No. 163,254. PUBLISHED JANUARY 30, 1923.

166,870. SPAGHETTI. JOSEPH CAMPBELL COMPANY, Camden, N. J.
Filed April 20, 1922. Serial No. 162,607. PUBLISHED FEBRUARY 6, 1923.

166,871. SPAGHETTI. JOSEPH CAMPBELL COMPANY, Camden, N. J.
Filed April 20, 1922. Serial No. 162,606. PUBLISHED FEBRUARY 6, 1923.

166,872. COFFEE. SANTANDER COFFEE CO., New York, N. Y.
Filed April 14, 1922. Serial No. 162,317. PUBLISHED FEBRUARY 6, 1923.

166,873. MEAT EXTRACTS. FRED WALKER & CO., PROPRIETARY LIMITED, Melbourne, Victoria, Australia.
Filed April 10, 1922. Serial No. 162,087. PUBLISHED FEBRUARY 6, 1923.

166,874. FOUNTAIN PENS. JOSEPH J. HELLER, Los Angeles, Calif.
Filed February 8, 1922. Serial No. 159,027. PUBLISHED JANUARY 23, 1923.

166,875. CANDIES AND CHOCOLATES. THE LOOMIS-WOODWARD CO., Fort Dodge, Iowa.
Filed January 18, 1922. Serial No. 158,086. PUBLISHED JANUARY 30, 1923.

166,876. EMBROCATION OR LINIMENT. ERNEST SHINBAUM, doing business as Embro Medicine Company, Chattanooga, Tenn.
Filed December 17, 1921. Serial No. 156,827. PUBLISHED JANUARY 9, 1923.

166,877. INTERNAL-COMBUSTION ENGINES. GRAY MOTOR CORPORATION, Detroit, Mich.
Filed December 9, 1921. Serial No. 156,489. PUBLISHED NOVEMBER 28, 1922.

166,878. BUTTER, EGGS, CHEESE. KURTIN & KURTIN, New York, N. Y.
Filed November 15, 1921. Serial No. 155,410. PUBLISHED FEBRUARY 6, 1923.

166,879. CANDIES. JACOB MENDELL, Brooklyn, N. Y.
Filed October 1, 1921. Serial No. 153,610. PUBLISHED MARCH 14, 1922.

166,880. CANDY. ALBERT BONOMO, Brooklyn, N. Y.
Filed August 3, 1921. Serial No. 151,306. PUBLISHED FEBRUARY 6, 1923.

166,881. CANNED SALMON. G. P. HALFERTY, Seattle, Wash.
Filed July 20, 1921. Serial No. 150,677. PUBLISHED JANUARY 17, 1922.

166,882. CANNED SALMON. G. P. HALFERTY, Seattle, Wash.
Filed July 20, 1921. Serial No. 150,674. PUBLISHED JANUARY 17, 1922.

166,883. COVER PAPER. CHEMICAL PAPER MANUFACTURING CO., Holyoke, Mass.
Filed January 18, 1921. Serial No. 142,385. PUBLISHED JANUARY 16, 1923.

166,884. CANNED SALMON. THLINKET PACKING COMPANY, Portland, Oreg., and Funter Bay, Alaska.
Filed September 24, 1918. Serial No. 113,333. PUBLISHED FEBRUARY 6, 1923.

166,885. CANDIES. SILAS E. RATHBURN, doing business as L. M. Carr, Somerville, Mass.
Filed August 2, 1922. Serial No. 167,751. PUBLISHED FEBRUARY 6, 1923.

166,886. HONEY. JACOB ALBRECHT WARNECKE, doing business as Florida Honey Products Co., Tavares, Fla.
Filed July 31, 1922. Serial No. 167,665. PUBLISHED FEBRUARY 6, 1923.

166,887. CANDY. MAURICE K. ANDERSON, Seattle, Wash.
Filed July 27, 1922. Serial No. 167,446. PUBLISHED FEBRUARY 6, 1923.

166,888. CANNED FRUITS. MAILLIARD & SCHMIEDELL, San Francisco, Calif.
Filed July 24, 1922. Serial No. 167,312. PUBLISHED FEBRUARY 6, 1923.

166,889. CANDY. FRED W. AMEND CO., Chicago, Ill.
Filed July 24, 1922. Serial No. 167,286. PUBLISHED FEBRUARY 6, 1923.

166,890. COFFEE. M. E. SWING COMPANY, Washington, D. C.
Filed July 19, 1922. Serial No. 167,104. PUBLISHED FEBRUARY 6, 1923.

166,891. MACARONI AND SPAGHETTI. RED STAR MACARONI CO. INC., Brooklyn, N. Y.
Filed July 19, 1922. Serial No. 167,101. PUBLISHED JANUARY 23, 1923.

166,892. PENCIL LEADS AND MECHANICAL PENCILS HOLDING SUCH LEADS. HYMAN E. GOLBER, doing business as H. E. Golber and Company, Chicago, Ill.
Filed June 23, 1922. Serial No. 165,949. PUBLISHED SEPTEMBER 19, 1922.

166,893. BEVERAGE, CONSISTING OF A COMPOSITION OF DRIED FRUITS AND NUTS, SUITABLE AS A SUBSTITUTE FOR COFFEE. GOLDIE WEINSTEIN, doing business as Goldie Fruit Coffee Co., New York, N. Y.
Filed June 22, 1922. Serial No. 165,904. PUBLISHED FEBRUARY 6, 1923.

166,894. SILK AND ARTIFICIAL-SILK THREAD AND YARN IN SKEIN AND SPOOL. D. E. ADAMS CO. INC., Athol, Mass., and New York, N. Y.
Filed June 22, 1922. Serial No. 165,849. PUBLISHED JANUARY 30, 1923.

166,895. FERMENTED MILK. MALONE DAIRY CO., New York, N. Y.
Filed June 21, 1922. Serial No. 165,804. PUBLISHED JANUARY 30, 1923.

166,896. CANDIES. H. JEVNE CO., doing business as Jevne's, Los Angeles, Calif.
Filed June 19, 1922. Serial No. 165,685. PUBLISHED JANUARY 30, 1923.

166,897. JAMS AND FRUIT PRESERVES. NELLIE L. BENNETT, doing business as Mayfair, Hollywood, Calif.
Filed June 14, 1922. Serial No. 165,478. PUBLISHED FEBRUARY 6, 1923.

166,898. POTATO CHIPS. JAMES ZES, doing business as A. & Z., Los Angeles, Calif.
Filed June 6, 1922. Serial No. 165,107. PUBLISHED FEBRUARY 6, 1923.

166,899. DRESSED POULTRY. SWIFT AND COMPANY, Chicago, Ill.
Filed June 6, 1922. Serial No. 165,096. PUBLISHED JANUARY 30, 1923.

166,900. FRESH CANTALOUPES AND FRESH APPLES. G. M. H. WAGNER & SONS, Chicago, Ill.
Filed June 1, 1922. Serial No. 164,791. PUBLISHED FEBRUARY 6, 1923.

166,901. MUSTARD DRESSING, TARTAR DRESSING, AND MAYONNAISE DRESSING. ALEXANDER JULIEN, Chicago, Ill.
Filed May 27, 1922. Serial No. 164,595. PUBLISHED FEBRUARY 6, 1923.

166,902. CANDY BARS. MICHAEL ECONOMOS, Oak Park, Ill.
Filed May 23, 1922. Serial No. 164,310. PUBLISHED FEBRUARY 6, 1923.

166,903. PEANUT BUTTER AND SALTED PEANUTS. GLENN Q. TOWNSEND, doing business as Hoody Peanut Butter Co., Portland, Oreg.
Filed May 22, 1922. Serial No. 164,280. PUBLISHED FEBRUARY 6, 1923.

166,904. NUTS IN THE SHELL AND SHELLED, SALTED, AND CANDIED NUTS, AND GLACÉ FRUIT CANDIES. CHARLES S. CASH, INC., New York, N. Y.
Filed May 10, 1922. Serial No. 163,613. PUBLISHED FEBRUARY 6, 1923.

166,905. CHOCOLATES, COCOA, CHOCOLATE, AND CANDIES. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah.
Filed May 9, 1922. Serial No. 163,591. PUBLISHED FEBRUARY, 6, 1923.

166,906. PIECE GOODS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed October 4, 1922. Serial No. 170,276. PUBLISHED JANUARY 23, 1923.

166,907. COTTON PIECE GOODS. WILLIAM HOLLINS & CO., INC., New York, N. Y.
Filed October 2, 1922. Serial No. 170,193. PUBLISHED JANUARY 30, 1923.

166,908. COTTON SHEETING, KNITTED PADDING, NETTING, AND CANVAS AND DUCK PIECE GOODS. TINGUE, BROWN & CO., New York, N. Y.
Filed September 30, 1922. Serial No. 170,167. PUBLISHED JANUARY 30, 1923.

166,909. COTTON SHEETING FOR COVERING THE PADDING ON IRONING ROLLS. TINGUE, BROWN & CO., New York, N. Y.
Filed September 30, 1922. Serial No. 170,166. PUBLISHED JANUARY 23, 1923.

166,910. TEXTILE FABRICS—NAMELY, FABRICS OF SILK AND WORSTED FOR WOMEN'S WEAR. TINGUE MANUFACTURING COMPANY, Seymour, Conn., and New York, N. Y.
Filed September 29, 1922. Serial No. 170,102. PUBLISHED JANUARY 30, 1923.

166,911. HAIR DRESSING. MARY L. MOTON, Washington, D. C.
Filed September 5, 1922. Serial No. 169,067. PUBLISHED JANUARY 9, 1923.

166,912. MERCERIZED YARNS. FORREST MERCERIZING CO., Gloucester, N. J.
Filed August 14, 1922. Serial No. 168,213. PUBLISHED JANUARY 23, 1923.

166,913. COTTON THREAD. SMITH & DOVE MANUFACTURING CO., Andover, Mass.
Filed July 18, 1922. Serial No. 167,059. PUBLISHED JANUARY 23, 1923.

166,914. WOOLEN CLOTHS IN THE PIECE, INTENDED FOR SUITING, ETC. S. STEIN & CO., New York, N. Y.
Filed July 3, 1922. Serial No. 166,479. PUBLISHED FEBRUARY 6, 1923.

166,915. CERTAIN NAMED KNITTED, NETTED, AND TEXTILE FABRICS. JAMES MCCUTCHEON & COMPANY, New York, N. Y.
Filed July 1, 1922. Serial No. 166,391. PUBLISHED JANUARY 30, 1923.

166,916. NAINSOOK, SHEETS, DIAPER CLOTH, QUILTS, AND LONG CLOTH. THE MEYER'S COMPANY, Greensboro, N. C.
Filed June 29, 1922. Serial No. 166,238. PUBLISHED JANUARY 30, 1923.

166,917. CEREAL BREAKFAST FOOD. JOSEPH JOHN BESHERE, doing business as Vita-Grain Mfg. Co., Charleston, S. C.
Filed June 3, 1922. Serial No. 164,856. PUBLISHED JANUARY 30, 1923.

166,918. WOOLEN CLOTHS IN THE PIECE, INTENDED FOR SUITING, ETC. S. STEIN & CO., New York, N. Y.
Filed May 24, 1922. Serial No. 164,459. PUBLISHED JANUARY 30, 1923.

166,919. MALT SIRUPS FOR FOOD PURPOSES—NAMELY, BREAD AND CAKE MAKING. PETER HAUCK, Jr., East Orange, N. J.
Filed May 24, 1922. Serial No. 164,432. PUBLISHED JANUARY 30, 1923.

166,920. CEREAL BREAKFAST FOODS. WARD BAKING COMPANY, New York, N. Y.
Filed May 23, 1922. Serial No. 164,353. PUBLISHED JANUARY 30, 1923.

166,921. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. WARD BAKING COMPANY, New York, N. Y.
Filed April 1, 1922. Serial No. 161,662. PUBLISHED DECEMBER 12, 1922.

166,922. WHEAT FLOUR. THOMPSON MILLING CO., Rochester, N. Y.
Filed February 15, 1922. Serial No. 159,543. PUBLISHED MARCH 20, 1923.

166,923. CIGARETTES. LEO. L. POST, Forest Hills, N. Y., assignor, by mesne assignments, to Mint Products Co., Inc., Port Chester, N. Y., a Corporation of New York.
Filed November 16, 1921. Serial No. 155,446. PUBLISHED JULY 25, 1922.

166,924. THROWN SILK. THE BAER COMPANY, Lehighton, Pa.
Filed October 15, 1921. Serial No. 154,119. PUBLISHED JANUARY 30, 1923.

166,925. MEDICATED FOOD FOR CONVALESCENTS AND INVALIDS. VITA FOOD COMPANY, Salt Lake City, Utah.
Filed September 23, 1920. Serial No. 137,549. PUBLISHED DECEMBER 12, 1922.

166,926. COVER PAPER. PENINSULAR PAPER COMPANY, Ypsilanti, Mich.
Filed November 21, 1922. Serial No. 172,347. PUBLISHED JANUARY 16, 1923.

166,927. COVER PAPER. PENINSULAR PAPER COMPANY, Ypsilanti, Mich.
Filed November 21, 1922. Serial No. 172,345. PUBLISHED JANUARY 16, 1923.

166,928. COVER PAPER. PENINSULAR PAPER COMPANY, Ypsilanti, Mich.
Filed November 21, 1922. Serial No. 172,346. PUBLISHED JANUARY 16, 1923.

166,929. CANDIES. HOMER J. WILLIAMSON, Indianapolis, Ind.
Filed August 5, 1922. Serial No. 167,857. PUBLISHED FEBRUARY 6, 1923.

166,930. CANNED FRUITS. J. C. AINSLEY PACKING CO., Campbell, Calif.
Filed August 7, 1922. Serial No. 167,911. PUBLISHED FEBRUARY 6, 1923.

166,931. WRAPPING PAPER. BROWN COMPANY, Portland, Me.
Filed August 10, 1922. Serial No. 168,021. PUBLISHED JANUARY 16, 1923.

166,932. WRAPPING PAPER. BROWN COMPANY, Portland, Me.
Filed August 10, 1922. Serial No. 168,022. PUBLISHED JANUARY 16, 1923.

166,933. CANNED FRUITS AND VEGETABLES. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 10, 1922. Serial No. 168,041. PUBLISHED FEBRUARY 6, 1923.

166,934. WRAPPING PAPER, WAXED PAPER, PARCHMENT PAPER, GREASEPROOF PAPER, GUMMED PAPER, GLASSINE PAPER, TISSUE PAPER, BOOK AND WRITING PAPER. FRED. C. STRYPE, New York, N. Y.
Filed August 17, 1922. Serial No. 168,385. PUBLISHED JANUARY 16, 1923.

166,935. WRAPPING PAPER, WAXED, PARCHMENT, AND GREASEPROOF PAPER; GUMMED PAPER, GLASSINE PAPER, TISSUE PAPER, BOOK AND WRITING PAPER. FRED. C. STRYPE, New York, N. Y.
Filed August 17, 1922. Serial No. 168,386. PUBLISHED JANUARY 16, 1923.

166,936. HUMIDIFYING DEVICES FOR INTERNAL-COMBUSTION ENGINES. JAS. A. SEMPLE, doing business as The Lumidor Co., Chicago, Ill.
Filed September 12, 1922. Serial No. 169,377. PUBLISHED JANUARY 9, 1923.

166,937. PIECE GOODS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed October 4, 1922. Serial No. 170,278. PUBLISHED JANUARY 30, 1923.

166,938. ENVELOPES. SEWELL-CLAPP-ENVELOPES, Chicago, Ill.
Filed October 27, 1922. Serial No. 171,288. PUBLISHED JANUARY 16, 1923.

166,939. PORTABLE REFRIGERATORS. LIVINGOOD MANUFACTURING CORPORATION, Lebanon, Pa.
Filed October 31, 1922. Serial No. 171,426. PUBLISHED JANUARY 23, 1923.

166,940. WOVEN COTTON AND WOOLEN FABRICS. CHINA AND JAPAN TRADING COMPANY (LTD.), New York, N. Y.
Filed November 11, 1922. Serial No. 171,831. PUBLISHED JANUARY 30, 1923.

166,941. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed November 13, 1922. Serial No. 171,895. PUBLISHED JANUARY 30, 1923.

166,942. CREPE PAPER. THE TISSUE CO., Saugerties, N. Y.
Filed November 15, 1922. Serial No. 172,066. PUBLISHED JANUARY 16, 1923.

166,943. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed November 21, 1922. Serial No. 172,328. PUBLISHED JANUARY 16, 1923.

166,944. HAIR NETS. EASTERN HAIR NET TRADING CO., New York, N. Y.
Filed November 20, 1922. Serial No. 172,267. PUBLISHED JANUARY 30, 1923.

166,945. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J., assignors to Forstmann & Huffmann Company, Passaic, N. J., a Corporation of Delaware.
Filed November 18, 1922. Serial No. 172,217. PUBLISHED JANUARY 30, 1923.

166,946. CLOTH USED FOR MAKING TYPEWRITER RIBBON. ROSE & FRANK COMPANY, New York, N. Y.
Filed November 17, 1922. Serial No. 172,175. PUBLISHED JANUARY 30, 1923.

166,947. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed November 13, 1922. Serial No. 171,894. PUBLISHED JANUARY 30, 1923.

166,948. SILK RIBBONS IN THE PIECE. THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y.
Filed November 11, 1922. Serial No. 171,878. PUBLISHED JANUARY 30, 1923.

166,949. SILK RIBBONS IN THE PIECE. THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y.
Filed November 11, 1922. Serial No. 171,877. PUBLISHED JANUARY 30, 1923.

166,950. HAIR NET. FREDRICK G. MITCHELL, doing business as L. Mitchell & Company, Chicago, Ill.
Filed November 11, 1922. Serial No. 171,855. PUBLISHED JANUARY 23, 1923.

166,951. HANDKERCHIEFS. CLUETT, PEABODY & COMPANY, INC., Troy, N. Y.
Filed November 10, 1922. Serial No. 171,787. PUBLISHED JANUARY 30, 1923.

166,952. HAIR NETS. L. H. LEWIS COMPANY, Dallas, Tex.
Filed October 31, 1922. Serial No. 171,425. PUBLISHED JANUARY 30, 1923.

166,953. SILK PIECE GOODS. ERNEST A. RIEGER, New York, N. Y.
Filed October 18, 1922. Serial No. 170,899. PUBLISHED JANUARY 30, 1923.

166,954. COTTON CRÊPE PRINTED, WOVEN, AND IN PLAIN COLORS. CONSOLIDATED TEXTILE CORPORATION, New York, N. Y.
Filed October 17, 1922. Serial No. 170,808. PUBLISHED JANUARY 30, 1923.

166,955. COTTON PIECE GOODS. HENRY GLASS & Co., New York, N. Y.
Filed October 11, 1922. Serial No. 170,580. PUBLISHED JANUARY 30, 1923.

166,956. COTTON GOODS, WOOLEN, HALF-WOOL, WOVEN, PLAIN OR PRINTED, AND DYED GOODS, ALL SAID GOODS BEING IN THE PIECE. HERMANN A. JOHN, doing business as Von der Heyde & John, New York, N. Y.
Filed October 6, 1922. Serial No. 170,389. PUBLISHED JANUARY 23, 1923.

166,957. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., Astoria and New York, N. Y.
Filed October 4, 1922. Serial No. 170,309. PUBLISHED JANUARY 30, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

166,958. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 17, 1922. Serial No. 172,162.

$1000.00 GUARANTEED OZO WASTE PIPE OPENER
REG. U.S. PAT. OFF.

Particular description of goods.—Waste Pipe, Drain Pipe, Sink Opener and Cleaner.
Claims use since Aug. 18, 1910.

166,959. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANDARD COUPLER COMPANY, New York, N. Y. Filed Jan. 27, 1923. Serial No. 175,221.

SESSIONS-STANDARD

Particular description of goods.—Draft Gear for Locomotives and Railway and Trolley Cars.
Claims use since 1900.

166,960. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) PEERLESS TRAVELING GOODS CO., Mayville, Wis. Filed Mar. 1, 1923. Serial No. 176,806.

PEERLESS TRAVELING GOODS CO. MAKERS OF PEERLESS LUGGAGE MAYVILLE, WIS.

Particular description of goods.—Coat Cases, Suit Cases, and Traveling Bags.
Claims use since Jan. 1, 1922.

166,961. (CLASS 33. GLASSWARE.) THE OWENS BOTTLE COMPANY, Toledo, Ohio. Filed Jan. 15, 1923. Serial No. 174,631.

OWENS OVALS

Particular description of goods.—Bottles Made of Glass.
Claims use since Jan. 1, 1919.

166,962. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COLEMAN LAMP CO., Wichita, Kans. Filed Jan. 5, 1923. Serial No. 174,198.

Coleman

Particular description of goods.—Air Pumps and Parts Therefor.
Claims use since on or about May 6, 1921.

166,963. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Dec. 19, 1922. Serial No. 173,582.

FLOOR-WIPE

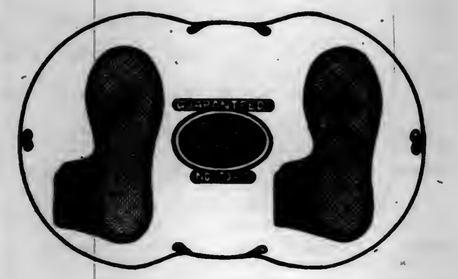
Particular description of goods.—A Preparation for Cleaning and Renewing the Finish of Waxed, Painted, and Varnished Floors, Furniture, and Woodwork.
Claims use since June 1, 1910.

166,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WANDER COMPANY, Chicago, Ill. Filed Dec. 8, 1922. Serial No. 173,112.

MARIENBAD

Particular description of goods.—Antiobesity Tablets.
Claims use since Oct. 1, 1921.

166,965. (CLASS 39. CLOTHING.) EDWARD J. RAMSEY, doing business as E. J. Ramsey Co., Brooklyn, N. Y. Filed Oct. 26, 1922. Serial No. 171,233.



Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since July 20, 1919.

166,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL A. ASHKAR, doing business as Geddes Manufacturing Company, Syracuse, N. Y. Filed Oct. 17, 1922. Serial No. 170,803.

Hair Smoother

Particular description of goods.—Hair Lotion.
Claims use since January, 1922.

166,967. (CLASS 39. CLOTHING.) POWELL & CAMPBELL, New York, N. Y. Filed Sept. 28, 1922. Serial No. 170,034.

DR. CAMPBELL'S

Particular description of goods.—Men's, Women's, and Children's Leather Shoes.
Claims use since Apr. 12, 1921.

166,968. (CLASS 10. FERTILIZERS.) I. F. LAUCKS, INC., Seattle, Wash. Filed Sept. 20, 1922. Serial No. 169,718.

PLANT MANNA

Particular description of goods.—Fertilizer.
Claims use since Feb. 15, 1922.

166,969. (CLASS 12. CONSTRUCTION MATERIALS.) NEW CASTLE REFRACTORIES CO., New Castle, Pa. Filed July 20, 1922. Serial No. 167,143.

OILPROOF

Particular description of goods.—Fire Bricks and Furnace, Kiln, Burner, and Other Refractory Parts Made Out of Fire-Brick Material and Adapted for Use in Furnaces and Kilns Heated by the Combustion of Oil.
Claims use since May 1, 1921.

166,970. (CLASS 39. CLOTHING.) TOWN TALK M'F'G CO., Louisville, Ky. Filed July 10, 1922. Serial No. 166,728.



Particular description of goods.—Adjustable Caps for Men, Women, and Children.
Claims use since Jan. 18, 1922.

166,971. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI RIGAUD, doing business as Rigaud, Paris, France, and New York, N. Y. Filed June 3, 1922. Serial No. 164,963.

KANANGA DU JAPON

Particular description of goods.—Perfume, Toilet Water, and Face Lotion.
Claims use since 1912.

166,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI RIGAUD, doing business as Rigaud, Paris, France, and New York, N. Y. Filed June 3, 1922. Serial No. 164,953.

Rigaud

Particular description of goods.—Perfume, Toilet Water, Face Powder, Rouge, Face Creams, Sachet, Bath Salts, Talcum Powder, Smelling Salts, Breath Pastils, and Brilliantine.
Claims use since 1916.

166,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HECTOR A. GAUTHIER, Lynn, Mass. Filed June 3, 1922. Serial No. 164,899.

GAUTHIER'S DYSPEPTIC VEGETABLE COMPOUND

Particular description of goods.—Dyspeptic Compound.
Claims use since Nov. 12, 1921.

166,974. (CLASS 10. FERTILIZERS.) HERMAN VAISBERG, doing business as Nitro-Culture Company, Savannah, Ga. Filed May 5, 1922. Serial No. 163,420.

NITRO ★ ★ CULTURE

Particular description of goods.—Germ Food for Plants.
Claims use since Feb. 1, 1922.

166,975. (CLASS 39. CLOTHING.) LACOST & SCHWEDLER, Chicago, Ill. Filed Mar. 6, 1922. Serial No. 160,245.

"Nar-O-Heel"

Particular description of goods.—Shoes Made of Leather.
Claims use since May 1, 1921.

166,976. (CLASS 39. CLOTHING.) THE STETSON SHOE COMPANY, INC., Weymouth, Mass. Filed Mar. 3, 1922. Serial No. 160,161.

Healdarch

Particular description of goods.—Boots and Shoes of Leather, Cloth, Canvas, and a Combination of These Materials.
Claims use since January, 1922.

166,977. (CLASS 39. CLOTHING.) THE PARAMOUNT KNITTING COMPANY, Chicago, Ill., assignor to Bear Brand Hosiery Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1922. Serial No. 159,979.

WINNIPEG

Particular description of goods.—Hosiery.
Claims use since about Jan. 21, 1922.

166,978. (CLASS 37. PAPER AND STATIONERY.) HUTCHEON BROTHERS, New York, N. Y. Filed Feb. 25, 1922. Serial No. 159,797.

The FINERPOINTE Propels PENCIL Repels

Particular description of goods.—Pens and Pencils.
Claims use since Feb. 1, 1922.

166,979. (CLASS 37. PAPER AND STATIONERY.) GEO. D. BARNARD STATIONERY COMPANY, St. Louis, Mo. Filed Feb. 6, 1922. Serial No. 158,914.

COTTON LINTERS

Particular description of goods.—Writing Paper.
Claims use since Jan. 20, 1922.

166,980. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE KANT-SKORE PISTON COMPANY, Cincinnati, Ohio. Filed Mar. 14, 1922. Serial No. 160,669.

WEIGH LIGHTEST FIT TIGHTEST

Particular description of goods.—Pistons.
Claims use since on or about Feb. 1, 1921.

166,981. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID LOESER, New York, N. Y. Filed Dec. 31, 1921. Serial No. 157,374.

Loeser's

Particular description of goods.—Intravenous Solutions, Including Solutions of Iron and Arsenic; Iron, Arsenic, and Phosphorus; Iron Glycerophosphate; Arsenic and Mercury; Digitalis; Sterilized Distilled Water; Emetine Hydrochloride; Guaiacol and Iodine; Sodium Glycerophosphate; Sodium Cacodylate; Sodium Iodide; Salicylate and Iodide; Sodium Salicylate; Sodium Benzoate; Sodium Bicarbonate; Quinine Dihydrochloride; Quinine Dihydrobromide; Quinine Cacodylate; Potassium Iodide; Mercury Bichloride; Mercury Oxycyanide; Hexamethylenamine; Hexamethylenamine and Sodium Iodide; and Strophanthin.
Claims use since August, 1916.

166,982. (CLASS 37. PAPER AND STATIONERY.) THE WABASH CABINET CO., Wabash, Ind. Filed Jan. 3, 1922. Serial No. 157,460.

SUPREME QUALITY FILING SUPPLIES

Particular description of goods.—Blank Index Guides, Record Cards, Card Alphabets, and Folders.
Claims use since Sept. 1, 1921.

166,983. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. POLLOCK MILLING & ELEVATOR CO., Mexico, Mo. Filed Dec. 7, 1921. Serial No. 156,413.

Buhr-Gram



Particular description of goods.—Graham Whole-Wheat Flour.
Claims use since July 1, 1921.

166,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALBAN, LOBO CO., S. A., Habana, Cuba. Filed Nov. 12, 1921. Serial No. 155,307.

CORINTO

Trade-mark consists of the word "Corinto."
Particular description of goods.—Wheat Flour.
Claims use since Aug. 30, 1904.

166,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MABEL L. THOMPSON, doing business under the name of The Thompson Medical Company, Avon, N. Y. Filed Oct. 13, 1922. Serial No. 170,700.



THOMPSON'S TARTARIC GUAIAC THROAT TABLETS

The portrait is that of Charles A. Thompson.
Particular description of goods.—Medicinal Throat Tablets.
Claims use for not less than one year.

166,986. (CLASS 35. BELTING, HOSE, MACHINERY, PACKING, AND NONMETALLIC TIRES.) THE DENMAN-MYERS CORD TIRE CO., Warren, Ohio. Filed Oct. 10, 1922. Serial No. 170,521.

DENMAN

Particular description of goods.—Rubber Tires.
Claims use since Apr. 29, 1920.

166,987. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JONES BROS. & CO., San Francisco and Watsonville, Calif. Filed Sept. 28, 1922. Serial No. 170,024.

JONES "JUST THE JUICE"

Particular description of goods.—Apple-Cider Vinegar.
Claims use since March, 1896.

166,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHYSIO-CHEMICAL LABORATORIES, Salt Lake City, Utah. Filed Sept. 11, 1922. Serial No. 169,320.

SAL-NORMAL

Particular description of goods.—Granulated Effervescent Salt Compound Used as a Blood Salt.
Claims use since May 1, 1921.

166,989. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUAKER SOAP COMPANY, Secaucus, N. J. Filed July 19, 1922. Serial No. 167,099.

SILVER BLEACH

Particular description of goods.—A Chemical Compound to be Used in Connection With an Aluminum Plate for Cleaning and Polishing Solid and Plated Silverware.
Claims use since Oct. 20, 1921.

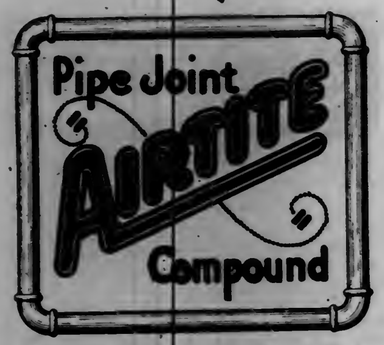
166,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. A. MATSON CO., Minneapolis, Minn. Filed June 19, 1922. Serial No. 165,701.

Matson's

CREAM TOAST

Particular description of goods.—Prepared Toast.
Claims use since on or about Jan. 1, 1906.

166,991. (CLASS 12. CONSTRUCTION MATERIALS.) STASO MILLING COMPANY, Poultney, Vt. Filed June 7, 1922. Serial No. 165,161.



Particular description of goods.—A Compound Used for Sealing Metallic Pipe Joints.
Claims use since Jan. 1, 1909.

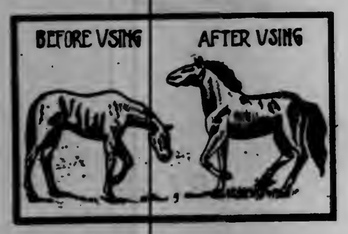
166,992. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL SILK PRINTING COMPANY, Haledon, N. J., and New York, N. Y. Filed Apr. 17, 1922. Serial No. 162,437.

SIAMESE PRINTS

Particular description of goods.—Silk, Cotton and Silk, Silk and Wool Goods in the Piece.
Claims use since Jan. 3, 1922.

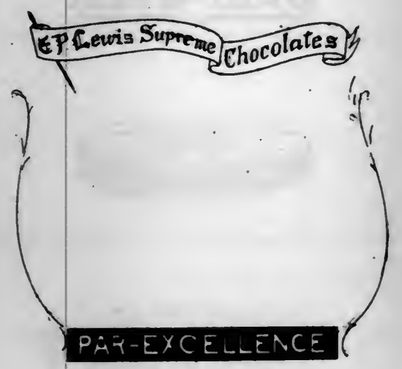
166,993. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH LASITTER, Richmond, Va. Filed Apr. 4, 1922. Serial No. 161,731.

The
FAVORITE TONIC



Particular description of goods.—A General Tonic for Animals.
Claims use since 1896.

166,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR P. LEWIS, Boston, Mass. Filed Mar. 8, 1922. Serial No. 160,357.



Particular description of goods.—Chocolates and Cream Walnuts.
Claims use since Feb. 1, 1921.

166,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SAUERS MILLING COMPANY, Evansville, Ill. Filed Mar. 4, 1922. Serial No. 160,208.

INFALLIBLE

Particular description of goods.—Wheat Flour.
Claims use since Jan. 15, 1906.

166,996. (CLASS 20. LINOLEUM AND OILED CLOTH.) DAVID E. KENNEDY, INC., New York, N. Y. Filed Feb. 21, 1922. Serial No. 159,658.

RUBBER - MARBLE

Particular description of goods.—Linoleum Flooring in Various Colors.
Claims use since Jan. 1, 1922.

166,997. (CLASS 37. PAPER AND STATIONERY.) HURLOCK BROS. COMPANY, INC., Philadelphia, Pa. Filed Feb. 12, 1923. Serial No. 175,929.

Pla-Card Board

Particular description of goods.—Paper Illustration Stock.
Claims use since February, 1922.

166,998. (CLASS 37. PAPER AND STATIONERY.) HURLOCK BROS. COMPANY, INC., Philadelphia, Pa. Filed Feb. 12, 1923. Serial No. 175,928.

Sho-Card Board

Particular description of goods.—Paper Illustration Stock.
Claims use since about May, 1913.

166,999. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923. Serial No. 174,625.

WINTON

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since May 1, 1919.

167,000. (CLASS 12. CONSTRUCTION MATERIALS.) F. E. SCHOENBERG MFG. CO., St. Louis, Mo. Filed Dec. 15, 1922. Serial No. 173,305.



Particular description of goods.—Screen Doors, Screen Windows, Screen Transoms, and Frames of All Character in Which Screening is Placed.
Claims use since Mar. 1, 1902.

167,001. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 11, 1922. Serial No. 173,165.

DUANE

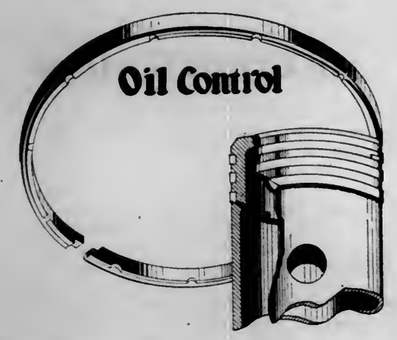
Particular description of goods.—Unbleached, Bleached, Dyed and Colored Cotton Ducks and Drills in the Piece.
Claims use since 1909.

167,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUDLEY GUM COMPANY, Nashville, Tenn. Filed Dec. 4, 1922. Serial No. 172,868.

OLD FASHION SWEET GUM

Particular description of goods.—Chewing Gum.
Claims use since May 17, 1917.

167,003. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE WELEVER PISTON RING COMPANY, Toledo, Ohio. Filed Dec. 1, 1922. Serial No. 172,789.



Particular description of goods.—Piston Rings.
Claims use since January, 1920.

167,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY R. HARROWER, doing business as The Harrower Laboratory, Glendale, Calif. Filed Nov. 16, 1922. Serial No. 172,092.

PAN-SECRETIN CO.

Particular description of goods.—Medicinal Preparation for the Treatment of Diabetes.
Claims use since September, 1920.

167,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Nov. 11, 1922. Serial No. 171,858.

VAN NUYS

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since about Aug. 1, 1916.

167,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Nov. 11, 1922. Serial No. 171,857.

LOS ANGELES VALLEY

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since about June 1, 1916.

167,007. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) LONDON LIGHTING-WARES CORPORATION, New York, N. Y. Filed Nov. 4, 1922. Serial No. 171,583.

HEATINGWARES

Particular description of goods.—Gas Heaters.
Claims use since Jan. 5, 1921.

167,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SULLIVAN PACKING COMPANY, Detroit, Mich. Filed Nov. 2, 1922. Serial No. 171,516.

FAVORITE BRAND

Particular description of goods.—Hams, Bacon, Sausage, and Lard.
Claims use since about April, 1909.

167,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SAUERS MILLING COMPANY, Evansville, Ill. Filed Mar. 4, 1922. Serial No. 160,209.

SELZWEL

Particular description of goods.—Self-Rising Wheat Flour.
Claims use since June, 1915.

TRADE-MARK REGISTRATIONS RENEWED.

19,684. GINGER ALE. Registered June 2, 1891. HENRY L. MILLIS. Renewed June 2, 1921, to Clicquot Club Company, Millis, Mass., a Corporation of Rhode Island, assignee.

21,081. OARS, HANDSPIKES, AND CAPSTAN BARS. Registered May 10, 1892. DE GRAUW, AYMAR & CO. Renewed May 10, 1922, to De Grauw, Aymar & Company, New York, N. Y., a Corporation of New York, assignee.

22,148. ELECTRIC INSULATORS. Registered December 6, 1892. A. & J. M. ANDERSON. Renewed December 6, 1922, to Albert & J. M. Anderson Manufacturing Company, Boston, Mass., assignee.

22,394. VARNISHES, STAINS, DRIERS, JAPANS, AND KINDRED GOODS. Registered January 31, 1893. CHICAGO VARNISH COMPANY, Chicago, Ill. Renewed January 31, 1923, to Flint Varnish & Color Works, Flint, Mich., assignee.

22,395. PAINTS, VARNISHES, STAINS, DRIERS, JAPANS, AND KINDRED GOODS. Registered January 31, 1893. CHICAGO VARNISH COMPANY, Chicago, Ill. Renewed January 31, 1923, to Flint Varnish & Color Works, Flint, Mich., assignee.

22,459. ROLLED WHEAT. Registered February 14, 1893. PETTIJOHN CALIFORNIA BREAKFAST FOOD COMPANY, Minneapolis, Minn. Renewed February 14, 1923, to The Quaker Oats Company, Chicago, Ill., assignee.

22,481. LAGER BEER. Registered February 14, 1893. JAMES EVERARD. Renewed February 14, 1923, to James Everard's Breweries, New York, N. Y., a Corporation of New York, assignee.

22,589. PEPSIN, PANCREATIN, AND RENNET AND THEIR COMPOUNDS. Registered February 28, 1893, to Swift & Company, Chicago, Ill. Renewed February 28, 1923.

22,580. PLAYING CARDS. Registered March 7, 1893. THE UNITED STATES PRINTING CO. Renewed March 7, 1923, to The United States Playing Card Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

22,582. PLAYING CARDS. Registered March 7, 1893. THE UNITED STATES PRINTING CO. Renewed March 7, 1923, to The United States Playing Card Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

22,591. CHOCOLATES AND OTHER BONBONS. Registered March 7, 1893. THE WALTER M. LOWNEY CO. Renewed March 7, 1923, to Walter M. Lowney Company, Boston, Mass., a Corporation of Massachusetts, assignee.

22,622. STOVE POLISH OR BLACKING. Registered March 7, 1893. MORSE BROS., Canton, Mass. Renewed March 7, 1923, to J. L. Prescott Company, New York, N. Y., assignee.

22,752. STEEL, STEEL WIRE, TOOLS, FILES, AND SAWS. Registered April 4, 1893. PETER STUBS, LIMITED, Warrington and Rotherham, England. Renewed April 4, 1923.

22,753. STEEL, STEEL WIRE, TOOLS, FILES, AND SAWS. Registered April 4, 1893. PETER STUBS, LIMITED, Warrington and Rotherham, England. Renewed April 4, 1923.

22,771. WHISKY. Registered April 11, 1893. THE DISTILLERS COMPANY, LIMITED, Edinburgh, Scotland. Renewed April 11, 1923.

22,904. AN ANTIDOTE FOR POISON, AND REMEDIES FOR BLOOD AND LIVER DISEASES. Registered May 9, 1893. ANTI-POISON MEDICINE CO., Springfield, Mo., a Corporation of Missouri. Renewed May 9, 1923.

23,025. PERFUMERY AND PERFUMED SOAP. Registered May 16, 1893. JOHN LIPSCOMB GROSSMITH. Renewed May 16, 1923, to J. Grossmith & Son, Limited, London, England, assignee.

23,104. METALLIC NAIL STRIPS. Registered May 23, 1893. MCKAY METALLIC FASTENING ASSOCIATION. Renewed May 23, 1923, to United Shoe Machinery Corporation, Boston, Mass., assignee.

23,192. PERFECTING PRINTING PRESSES. Registered June 6, 1893. DUPLEX PRINTING PRESS COMPANY, Battle Creek, Mich. Renewed June 6, 1923.

23,250. SHELLED POP CORN. Registered June 27, 1893. THE ALBERT DICKINSON COMPANY, Chicago, Ill. Renewed June 27, 1923.

23,262. WHEAT FLOUR. Registered June 27, 1893. STAR AND CRESCENT MILLING COMPANY, Chicago, Ill. Renewed June 27, 1923.

23,291. A SUBSTITUTE FOR LARD AND BUTTER. Registered July 4, 1893. ARMOUR & CO. Renewed July 4, 1923, to Armour and Company, Chicago, Ill., a Corporation of Illinois, assignee.

23,347. FARM OR AGRICULTURAL SEEDS. Registered July 11, 1893. THE ALBERT DICKINSON COMPANY, Chicago, Ill. Renewed July 11, 1923.

23,409. DIAMOND-POINTED SPADES. Registered July 25, 1893. TERRE HAUTE SHOVEL & TOOL CO., Terre Haute, Ind. Renewed July 25, 1923, to Ames Shovel & Tool Company, Boston, Mass., assignee.

23,420. PACKING FOR MACHINERY. Registered July 25, 1893. GARLOCK PACKING CO. Renewed July 25, 1923, to The Garlock Packing Company, Palmyra, N. Y., a Corporation of New York, assignee.

23,427. SHOULDER BRACES AND SUSPENDERS. Registered August 1, 1893. KNICKERBOCKER BRACE COMPANY, Easton, Pa. Renewed August 1, 1923.

23,441. CERTAIN NAMED MEDICAL AND DISINFECTING COMPOUNDS AND APPARATUS. Registered August 1, 1893. THE VAPO-CRESOLENE COMPANY, Stanley, N. J., and New York, N. Y. Renewed August 1, 1923.

23,445. TOILET POWDERS AND DENTIFRICE. Registered August 1, 1893. GEORGE B. EVANS, Philadelphia, Pa. Renewed August 1, 1923.

23,448. OILSTONES AND WHETSTONES. Registered August 1, 1893. THE PIKE MANUFACTURING COMPANY, Pike Station, Haverhill, N. H. Renewed August 1, 1923.

23,498. INSECT AND VERMIN DESTROYING PREPARATIONS. Registered August 15, 1893. ADOLPH ISAACSEN & SON. Renewed August 15, 1923, to Adolph Isaacsen & Son, Inc., New York, N. Y., assignee.

23,562. A LINIMENT. Registered August 29, 1893. ROBERT H. WAGNER. Renewed August 29, 1923, to Augusta A. Wagner, Rye, N. Y., successor.

LABELS

REGISTERED APRIL 17, 1923.

25,827.—*Title:* MATO WONDER WASHING POWDER. For Washing Powder. A. B. C. SALES CORPORATION, New York, N. Y. Published December 22, 1922.

25,828.—*Title:* SUNSET LABEL. For Calf Leather, BARNET LEATHER CO. INC., New York, N. Y. Published November 21, 1922.

25,829.—*Title:* BONNIE B TALCUM. For Talcum Powders. BONNIE-B CO., New York, N. Y. Published January 1, 1923.

25,830.—*Title:* MOONSHINE CLEANER. For Cartons Containing Cleaner for Automobiles and Furnitures. BOWEN CHEMICAL CO., San Francisco, Calif. Published March 2, 1923.

25,831.—*Title:* ELMDALE. For Butter. H. C. CHRISTIANS CO., Johnson Creek, Wis., and Chicago, Ill. Published December 27, 1922.

25,832.—*Title:* DOUBLE V FOLD. For Bias-Seam Tape and Bias-Seam Binding. ECONOMY BIAS BINDING CO., New York, N. Y. Published July 29, 1922.

25,833.—*Title:* GOLD SEAL MALT EXTRACT. For Cans Containing Malt Extract. JOHN J. HAUPT, Pittsburgh, Pa. Published August 1, 1920.

25,834.—*Title:* CHAMPION METAL POLISH. For a Polish for Silverware, Brassware, and Similar Metal Surfaces. WM. L. HOUGHTON AND SONS, Philadelphia, Pa. Published April 22, 1922.

25,835.—*Title:* HUMPHREY'S BIG CHIEF BAR. For Candy Bar. W. E. HUMPHREY CO., INC., Tacoma, Wash. Published March 1, 1923.

25,836.—*Title:* HUMPHREY'S BRIGHT EYES BAR. For Candy Bar. W. E. HUMPHREY CO., INC., Tacoma, Wash. Published March 1, 1923.

25,837.—*Title:* VIM. For Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published February 23, 1923.

25,838.—*Title:* ALYEROND. For Overcoats. LITTLE & GOLZE., Philadelphia, Pa. Published January 5, 1923.

25,839.—*Title:* EVEREADY RADIO 'B' BATTERY. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published March 15, 1923.

25,840.—*Title:* BUTAROL BUTTER PAPER. For Butter. NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Published August 15, 1922.

25,841.—*Title:* STERLING LAWN GRASS SEED. For Bags Containing Sterling Lawn-Grass Seed. NORTHRUP, KING & CO., Minneapolis, Minn. Published January 15, 1923.

25,842.—*Title:* RICE HEARTS. For Cereal Products. PERFECTION PRODUCTS COMPANY, New York, N. Y. Published February 17, 1923.

25,843.—*Title:* PAINT—VARNISH. For Paints and Varnishes. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Published March 13, 1923.

25,844.—*Title:* VETERAN. For Work Shirts for Men and Boys. SALANT & SALANT, INC., New York, N. Y. Published February 13, 1923.

25,845.—*Title:* "BLUE FLAG' BRAND FANCY CRAB. For Canned Crabs. NAOSABURO TATSUKAWA, doing business as Ono Trading Co., San Francisco, Calif. Published February 20, 1923.

25,846.—*Title:* WONDERLAY. For Containers for Egg Mash. WONDERLAY MILLING COMPANY, Indianapolis, Ind. Published February 1, 1923.

PRINTS

REGISTERED APRIL 17, 1923.

6,652.—*Title:* 10-PIECE CRETONNE SET. For Cretonne Draperies. BROOKLYN CURTAIN WORKS, INC., Brooklyn, N. Y. Published November 17, 1922.

6,653.—*Title:* KEEP YOUR SYSTEM REGULATED. For Dried Peaches and Figs and Fig Products. CALIFORNIA PEACH & FIG GROWERS, Fresno, Calif. Published October 1, 1922.

6,654.—*Title:* 'KANTLOSE' MITTEN AND GLOVE GUARD. For Mitten and Glove Guards. BLANCHE C. CHRISTY, doing business as Mary Jane Christy. Chicago, Ill. Published November 9, 1922.

6,655.—*Title:* AN OLD WOOD CUT. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published March 15, 1923.

6,656.—*Title:* DESMOND'S MIRACLE OIL FOR UPPER MOTOR LUBRICATION. For Lubricating Oils and Lubricants. B. G. DESMOND MANUFACTURING CORPORATION, College Point, N. Y. Published November 1, 1922.

6,657.—*Title:* ORDER TODAY! DELIVERED TOMORROW. For Hotels, Restaurants, and Janitor Supplies. EDWARD DON & COMPANY, Chicago, Ill. Published April 1, 1921.

6,658.—*Title:* BRACE UP YOUR CHILD WITH ELINE'S MILK CHOCOLATE BARS. For Chocolate. ELINE'S INCORPORATED, Milwaukee, Wis. Published March 6, 1923.

6,659.—*Title:* LIKE A PAINTED LILY—. For Fairy Soap. THE N. K. FAIRBANK COMPANY, New York, N. Y. Published February 28, 1923.

6,660.—*Title:* FOR YOUR SPRING CLEANING. For Gold Dust Washing Powder. THE N. K. FAIRBANK COMPANY, New York, N. Y. Published March 10, 1923.

6,661.—*Title:* SAY—KAYSER GLOVES. For Gloves. JULIUS KAYSER & CO., New York, N. Y. Published March 1, 1923.

6,662.—*Title:* KING TUT. For Cotton Piece Goods. OPPENHEIM OBERNDORF & CO., INC., doing business as The Franklin Manufacturing Co., Baltimore, Md. Published February 20, 1923.

6,663.—*Title:* THE SPRINGTIME OF LIFE. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published December 10, 1922.

6,664.—*Title:* NOT A DAY OLDER. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published February 20, 1923.

6,665.—*Title:* CHOCOLATES FIT FOR A QUEEN. For Schrafft's Chocolates. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Published January 23, 1923.

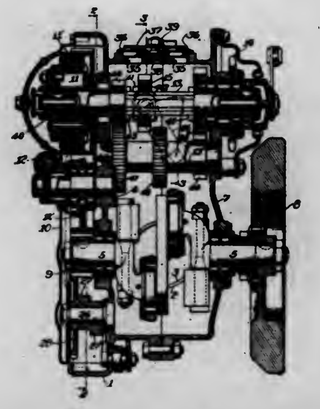
6,666.—*Title:* REGULAR AS CLOCK WORK. For Medicinal Oils. STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J. Published January 20, 1923.

6,667.—*Title:* VITOVIM TWINS. For Bread. WARD BAKING COMPANY, New York, N. Y. Published October 23, 1922.

REISSUES.

APRIL 17, 1923.

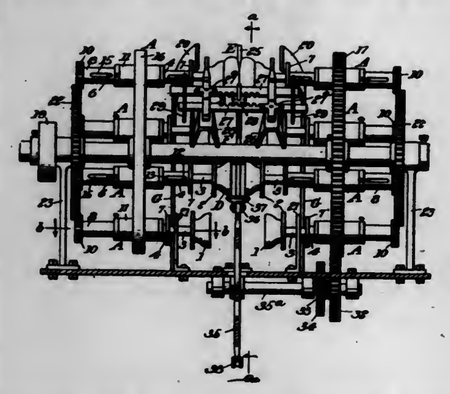
15,578. COMBINED ENGINE SHAFT, CLUTCH, AND TRANSMISSION. WILLIAM S. HARLEY, Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Filed Nov. 23, 1922. Serial No. 602,958. Original No. 1,360,110, dated Nov. 23, 1920, Serial No. 192,117, filed Sept. 19, 1917. 10 Claims. (Cl. 74—57.)



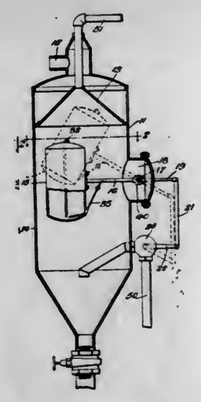
1. In a machine of the class described comprising in combination, a vertically elongated crank case having a pair of alined cylinder openings in its opposite walls at its lower end, a horizontally positioned cylinder carried in each of said openings, a horizontal engine shaft disposed in the lower end of the crank case transversely thereof and having its opposite ends journaled in the opposite side walls, a drive gear on one end of the engine shaft externally of the crank case and adjacent one side thereof, a peripheral flange extending from each of the last mentioned sides of the crank case and disposed laterally of the face thereof, a drive shaft disposed in the upper end of the crank case transversely thereof and having its opposite ends journaled in the opposite side walls, said ends being extended externally of the crank case, a counter shaft in the upper portion of the crank case between the engine shaft and the drive shaft and parallel thereto, the ends of said counter shaft being journaled in the opposite side walls of the case, a clutch on the drive shaft externally of the crank case and on the side thereof adjacent said drive gear, a gear train connecting the drive gear and clutch, a cover disposed over the last mentioned elements and having an oil tight engagement with the outer edge of said peripheral flange to form a gear case, selective speed means on said drive and counter shafts, and a driven member on the end of the drive shaft opposite the clutch and externally of the crank case.

15,579. FRUIT-PITTING MACHINE. GEORGE R. PARANTEAU, Oxnard, Calif. Filed Dec. 15, 1922. Serial No. 607,248. Original No. 1,392,518, dated Oct. 4, 1921, Serial No. 411,841, filed Sept. 21, 1920. 12 Claims. (Cl. 144—6.)

11. In a fruit pitting machine, yieldable coacting fruit grasping members, means for moving the said members into operative relation with a knife, and means for simultaneously shifting the fruit grasping members in corresponding directions.



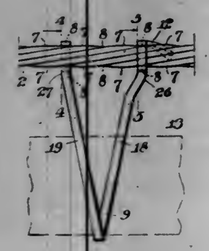
15,580. GAS-TRAP FLOAT. MILON J. TRUMBLE, Alhambra, Calif., assignor to Trumble Gas Trap Co., a Copartnership consisting of Milon J. Trumble, Francis M. Townsend, and Alfred J. Gutzler, Los Angeles, Calif. Filed Jan. 29, 1923. Serial No. 615,750. Original No. 1,432,221, dated Oct. 17, 1922, Serial No. 504,080, filed Sept. 29, 1921. 3 Claims. (Cl. 183—42.)



1. In gas trap float mechanism, the combination of: walls providing a receiving chamber; a float arm within said chamber having communication with the exterior of said receiving chamber; a float mounted upon said arm; means associated with said float furnishing guarded communication between the interior of said float and the interior of said receiving chamber whereby the pressure

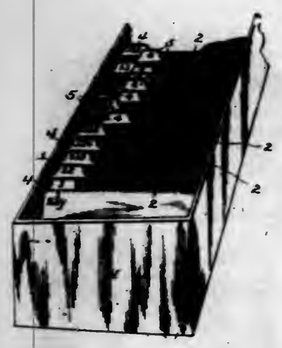
existing in said receiving chamber is transmitted to the interior of said float; and valved means extending from said float to a point without said receiving chamber through which the interior of said float may be cleared of collected liquids.

15,581. CABLE SUPPORT. ORSON W. BRENIZER, Philadelphia, Pa., assignor of one-fifth to Andrew V. Groupe, Philadelphia, Pa. Filed Jan. 13, 1923. Serial No. 612,555. Original No. 1,373,166, dated Mar. 29, 1921, Serial No. 433,758, filed Dec. 29, 1920. 4 Claims. (Cl. 248—33.)



4. A cable support formed of a single piece of flat spring wire and adapted to be applied to a supporting wire and comprising a cable receiving loop formed by a flatwise bend in the wire and having upwardly diverging arms extending from the respective sides of the loop, oppositely opening hooks formed by flatwise bends in the wire and extending upwardly from the upper ends of said arms and connected thereto by flatwise and edgewise bends in the wire and adapted to be hooked around a supporting wire from opposite sides thereof, each hook having a top part and a bottom part arranged one above the other to extend over and under a supporting wire, respectively, in a plane normal to the axis of the supporting wire when the cable support is applied thereto, and an arm connected by an edgewise bend in the wire to the free upper end portion of one of said hooks and extending laterally and downwardly therefrom in a direction away from the other of said hooks.

15,582. INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 21, 1921. Serial No. 516,860. Original No. 1,261,167, dated Apr. 2, 1918, Serial No. 198,458, filed Oct. 25, 1917. 7 Claims. (Cl. 129—16.5.)



2. An index comprising a key element and a plurality of index elements, said key element comprising designations representing phonetic subdivisions, and said index elements having thereon phonetic key designations in accordance with the names entered on said index elements and in accordance with the phonetic key designations of said key element.

DESIGNS.

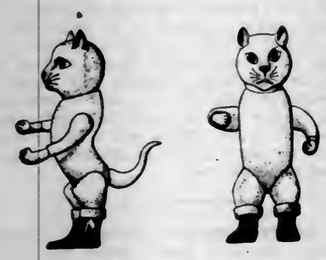
APRIL 17, 1923.

62,213. CANDY MINT. HENRY WARREN ALEXANDER, Jr., Philadelphia, Pa. Filed May 13, 1922. Serial No. 2,217. Term of patent 3½ years.



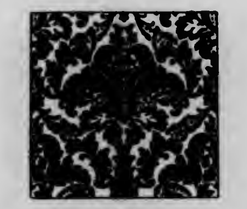
The ornamental design for a candy mint, as shown.

62,214. TOY CAT. ANDREW BONGIRNO, Brooklyn, N. Y. Filed Oct. 28, 1922. Serial No. 4,145. Term of patent 3½ years.



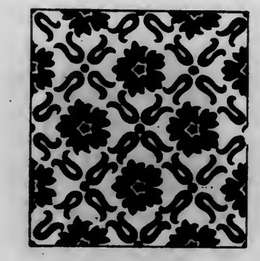
The ornamental design for a toy cat as shown.

62,215. WOVEN FABRIC. GUSTAVE M. FAUSER, New York, N. Y., assignor to Tingue Manufacturing Company, New York, N. Y., a Corporation of Connecticut. Filed Oct. 21, 1922. Serial No. 4,045. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

62,216. WOVEN FABRIC. GUSTAVE M. FAUSER, New York, N. Y., assignor to Tingue Manufacturing Company, New York, N. Y., a Corporation of Connecticut. Filed Sept. 29, 1922. Serial No. 3,846. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

62,217. WOVEN FABRIC. GUSTAVE M. FAUSER, New York, N. Y., assignor to Tingue Manufacturing Company, New York, N. Y., a Corporation of Connecticut. Filed Sept. 29, 1922. Serial No. 3,847. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

62,218. WOVEN FABRIC. GUSTAVE M. FAUSER, New York, N. Y., assignor to Tingue Manufacturing Company, New York, N. Y., a Corporation of Connecticut. Filed Sept. 29, 1922. Serial No. 3,848. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

62,219. WOVEN FABRIC. GUSTAVE M. FAUSER, New York, N. Y., assignor to Tingue Manufacturing Company, New York, N. Y., a Corporation of Connecticut. Filed Oct. 21, 1922. Serial No. 4,046. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

62,220. ICE-CREAM CONE. OSCAR S. KATZICK, Bridgeport, Conn. Filed Nov. 22, 1922. Serial No. 4,363. Term of patent 7 years.



The ornamental design for an ice cream cone substantially as shown.

62,221. PEN OR PENCIL CASE. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 19, 1921. Serial No. 501,821. Term of patent 3½ years.



The ornamental design for a pen or pencil case as shown.

62,222. EARRING. BEATRICE C. LUTKINS, Montclair, N. J. Filed Jan. 2, 1923. Serial No. 4,800. Term of patent 3½ years.



The ornamental design for an earring, substantially as shown.

62,223. DOLL. GEORGE FREDERICK MCCANN, Jersey City, N. J. Filed May 27, 1922. Serial No. 2,443. Term of patent 3½ years.



The ornamental design for a doll, as shown.

62,224. PENCIL. WILLIAM C. STEFFAN, FRANK B. ACKERMANN, and WALTER J. GREINER, Chicago, Ill. Filed Aug. 13, 1921. Serial No. 492,167. Term of patent 14 years.



The ornamental design for a pencil as shown.

62,225. SWEATER. LOUIS STRAUSS, Brooklyn, N. Y. Filed Jan. 21, 1922. Serial No. 305. Term of patent 3½ years.



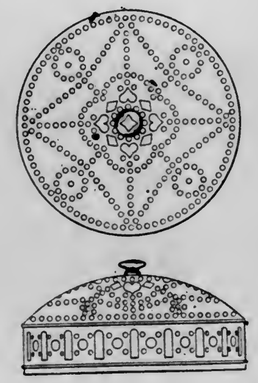
The ornamental design for a sweater as shown.

62,226. FINGER RING, PIN, BROOCH, OR SIMILAR ARTICLE. JULIUS WODISKA, New York, N. Y. Filed Jan. 22, 1921. Serial No. 439,305. Term of patent 3½ years.



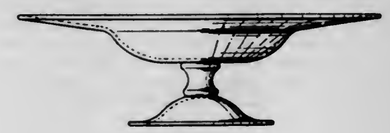
The ornamental design for a finger ring, pin, brooch or similar article substantially as herein shown.

62,227. DISH OR VESSEL COVER. MICHAEL KANIUK, Boyertown, Pa. Filed May 15, 1922. Serial No. 2,264. Term of patent 7 years.



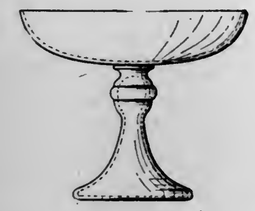
The ornamental design for a dish or vessel cover, as shown.

62,228. GLASS DISH. WILLIAM H. MAGEE, Wheeling, W. Va. Filed Jan. 30, 1922. Serial No. 436. Term of patent 3½ years.



The ornamental design for a glass dish, as shown.

62,229. FRUIT DISH. WILLIAM H. MAGEE, Wheeling, W. Va. Filed Jan. 30, 1922. Serial No. 434. Term of patent 3½ years.



The ornamental design for a fruit dish, as shown.

62,230. STATUETTE. DUDLEY J. MORTON, Milford, Conn. Filed Oct. 1, 1921. Serial No. 504,787. Term of patent 7 years.

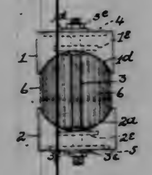


The ornamental design for a statuette as herein shown.

PATENTS

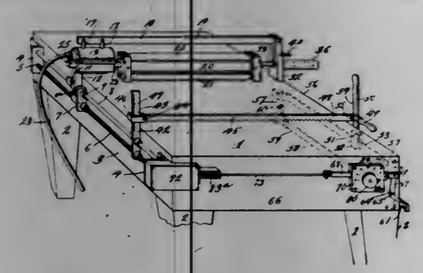
GRANTED APRIL 17, 1923.

1,451,673. ELECTRIC VAPORIZER. LEONARD E. ASKE, Duluth, Minn. Filed Feb. 21, 1922. Serial No. 538,318. 6 Claims. (Cl. 219—38.)



1. In an electric vaporizer, the combination with a chamber provided with a cover, of a post extending through said cover and insulated therefrom, two blocks of insulating material mounted on said post and spaced from each other, said blocks having a plurality of wire passages formed in their peripheries, said passages in one block being in approximate registration with said passages in the other of said blocks, a high resistance wire wound back and forth from one to the other of said blocks through the peripheral passages therein and across the divisions between said passages, the opposite ends of said wire being adapted to communicate with one pole of a source of electricity, and an intermediate loop of said wire being adapted to communicate with the opposite pole of said source.

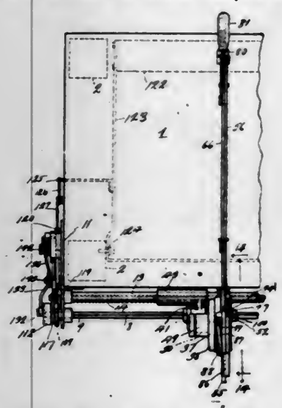
1,451,674. MEAT-CUTTING MACHINE. JOHN A. BAUMGARTNER, South Bend, Ind. Filed Dec. 16, 1921. Serial No. 522,896. 11 Claims. (Cl. 17—24.)



1. A meat cutting machine comprising a base, a transversely movable carriage disposed above said base, the rear end of said carriage being pivotally mounted, a meat severing element carried by said carriage, a feed screw cooperating with said carriage for intermittently moving the same, and means whereby said feed screw may be rotated a predetermined number of rotations.

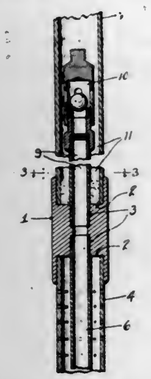
1,451,675. MEAT-CUTTING MACHINE. JOHN A. BAUMGARTNER, South Bend, Ind. Filed Apr. 10, 1922. Serial No. 551,250. 23 Claims. (Cl. 17—24.)

1. The combination with a meat severing machine comprising a traversing carriage, a meat severing element carried by said carriage, a feed screw for intermittently moving said carriage, of means for rotating said screw,



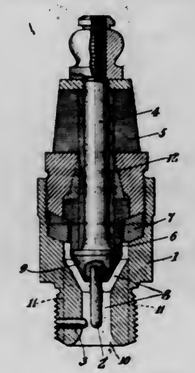
and adjustable cam means whereby said screw will be allowed to rotate a predetermined amount.

1,451,676. STANDING VALVE. CORWIN M. BERLIEN, Burkburnett, Tex., assignor of one-half to The Texhoma Oil & Refining Company, Wichita Falls, Tex. Filed Dec. 31, 1921. Serial No. 526,304. 1 Claim. (Cl. 103—220.)



In combination, a well casing joint for standing valves consisting of a casting having a central bore threaded at each end and provided between the threaded portions with an internal flange, said flange being of such thickness as to leave an opening of the same diameter as the internal diameter of suction and valve pipes fitting the threaded portions of the bore, said casting further having an internally threaded flange at each end adapted for connecting a well casing pipe, an imperforate well casing pipe screwed into the upper flange of the casting, a perforate well casing pipe screwed into the lower end of the casting, a standing valve pipe screwed into the upper end of the casting bore and butted against said flange, and a suction pipe screwed into the lower end of the casting bore and likewise butting against said flange whereby a smooth and unobstructed passage of uniform diameter throughout extends through the suction pipe, the casting and standing valve pipe, said casting being of uniform dimensions at each end.

1,451,677. PROCESS OF MAKING SPARK PLUGS. GEORGE R. BLODGETT and MOSES E. CHENEY, Brooklyn, and ROY T. HURLEY, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,481. 1 Claim. (Cl. 123—169.)



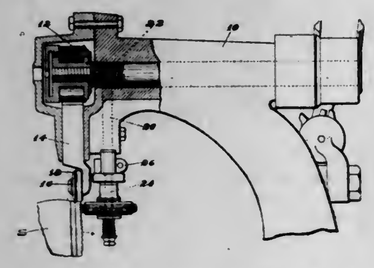
The steps in the process of making spark plugs of any specific core and shell construction suitable to be used with any compression ratio of cylinder of internal combustion engines, which consist in varying the cross-sectional area of the orifice to the spark plug in accordance with the formula $O=Kr^n$, where K and n are constants depending upon the particular core and shell construction and are determinable from two spark plugs of the said core and shell construction but differing from each other in cross-sectional area of orifice, when each is used with the compression ratio adapted to give the best results for said spark plug.

1,451,678. VARIABLE-RESISTANCE UNIT. WILL J. CAMERON, Chicago, Ill. Filed May 9, 1921. Serial No. 467,973. 5 Claims. (Cl. 219—48.)



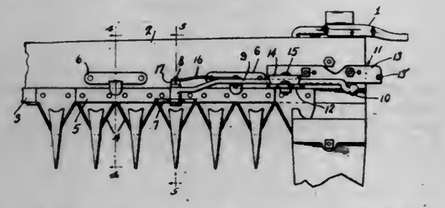
1. A variable resistance unit comprising a hollow insulating core, a helix of resistance metal wound thereabout, a series of spaced contact elements secured respectively to different convolutions of said helix, a layer of insulating material covering said helix and all but the outer faces of said contact elements, a conductor disposed longitudinally of and spaced from said core and helix, a longitudinally slotted casing surrounding said core and conductor, an insulating slide mounted in the slot of said casing, and a conductor bridge carried by said slide and extending from said conductor to alinement with said series of contact elements.

1,451,679. MACHINE FOR OPERATING UPON THE SOLES OF SHOES. LOUIS A. CASGRAIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 15, 1917. Serial No. 207,294. 12 Claims. (Cl. 12—32.)



1. In a machine for attaching the edge of the foxing of a rubber soled shoe to the upper preliminary to vulcanization, the combination with a pattern tool adapted to have rolling engagement with the foxing, and means for imparting percussional impulses to the tool in the direction to effect adhesion of an unvulcanized rubber foxing to the shoe upper, of a feed wheel arranged relatively to the tool to engage the sole of a shoe held in the hands of the operator and gage the distance from the shoe bottom edge at which the tool shall act, power means to drive the feed wheel, and a connection between the wheel and the power means constructed and arranged to prevent the wheel from rubbing the surface of the unvulcanized sole if the operator holds the shoe back to enable the tool to treat one part of the foxing longer than another part.

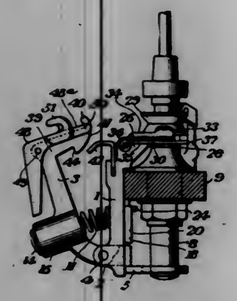
1,451,680. ATTACHMENT FOR MOWING-MACHINE SICKLE BARS. GEORGE W. CLINKINBEARD, St. Joseph, Mo. Filed Sept. 30, 1921. Serial No. 504,287. 2 Claims. (Cl. 56—303.)



2. In a mowing machine, a finger bar, a cutter bar mounted for reciprocation longitudinally of the finger bar, a reinforcing plate fixed to the cutter bar and having a flange extending upward from one of its edges, a pivot pin passing through said flange, a guide plate fixed on the finger bar and provided with a bracket formed with angularly disposed legs, one of which is adapted to rest against the last-mentioned flange and the other against the guide plate, a flat reciprocating link mounted for longitudinal

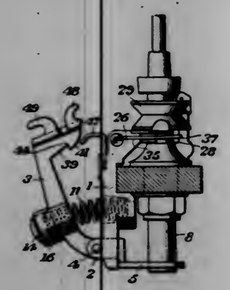
sliding movement between the angle plate and the last mentioned flange, said link having one end received on the pivot pin, means to hold the link on said pivot pin, and means at the other end of the link for connection to a pitman.

1,451,681. BAND-TYING GAUGE. ALBERT COOK, Holyoke, Mass. Filed Dec. 10, 1921. Serial No. 521,434. 15 Claims. (Cl. 265—1.)



1. A device of the class set forth comprising an attachment member, means carried thereby to engage a spindle bearing support, a movable band-engaging and tensioning member yieldingly held to the attachment member, guards carried by the attachment member and adapted to engage the spindle whorl, and means for locking the tension member when the desired tension has been placed on the band during the tying operation.

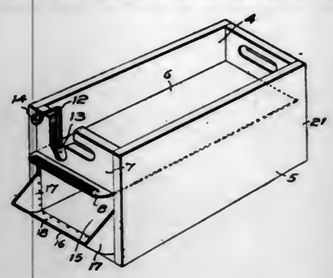
1,451,682. BAND-TYING GAUGE. ALBERT COOK, Holyoke, Mass. Filed Dec. 10, 1921. Serial No. 521,435. 13 Claims. (Cl. 265—1.)



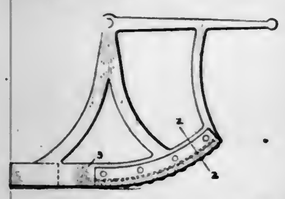
1. A band tying gauge comprising an attachment member, means to detachably connect said member to a spindle support, and a movable band tensioning member yieldingly held to the attachment member and having a pair of hooks formed on the tension member and between which the knot in the band may be formed and against which the free ends of the partially tied strands may be pulled in opposite directions to place the desired tension on the band to contract it and move the tension member toward the spindle.

1,451,683. BOBBIN SUPPLY BOX. ISAAC COUSER, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 10, 1922. Serial No. 542,715. 7 Claims. (Cl. 211—7.)

1. A bobbin supply box for filling replenishing looms having an upper receiving compartment in which the filled bobbins are placed and a lower delivery compartment from which the filled bobbins are removed and placed in the magazine, a division plate normally separating the two compartments, a lock for locking the division plate in its normal position separating the compartments and movable from its locking position to permit the division plate to be moved at will for dumping filled bobbins from the receiving to the delivery compartment.

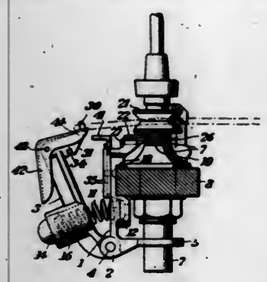


1,451,684. WEIGHING SCALE. HARRY CUMMER, Buffalo, N. Y. Filed Feb. 11, 1921. Serial No. 444,269. 4 Claims. (Cl. 265—70.)



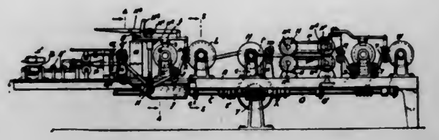
1. In a weighing scale of the type which includes a rocker beam, a series of structurally independent bodies carried by said beam and arranged along the tread thereof, said bodies providing ball points on which the beam may tip.

1,451,685. BAND-TYING GAUGE. MALCOLM CURRY, Scarsdale, N. Y., and ALBERT COOK, Holyoke, Mass.; said Curry assignor to said Cook. Filed Apr. 5, 1921. Serial No. 458,862. 19 Claims. (Cl. 265—1.)



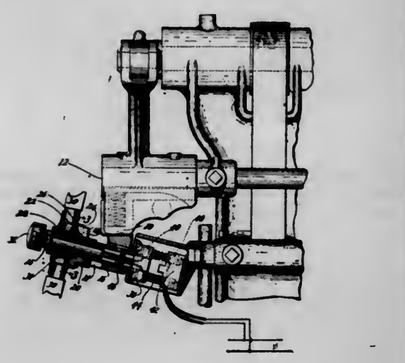
1. A device of the class set forth comprising an attachment member, a band engaging member pivotally held to the attachment member and arranged to swing toward said member, and a band-tension controlling spring for normally swinging the band engaging member away from the attachment member, whereby the tension placed on the band will swing the band engaging member and compress the tension controlling spring.

1,451,686. APPARATUS FOR MAKING BELTING. OTTO CZARAN, Long Island City, N. Y. Filed Jan. 28, 1919. Serial No. 273,648. 11 Claims. (Cl. 69—1.)



2. A belt making machine comprising a table, means for holding a sheet of belting material thereon, a knife adapted to cut a strip from said sheet, a trimmer adapted to form said strip into one of desired cross-section, means for guiding said strip to said trimmer, a bath, means for drawing the strip through said bath under a predetermined tension, friction wheels for smoothing and hardening the belt, polishing wheels, and means for drawing said strip between said wheels to finish the same.

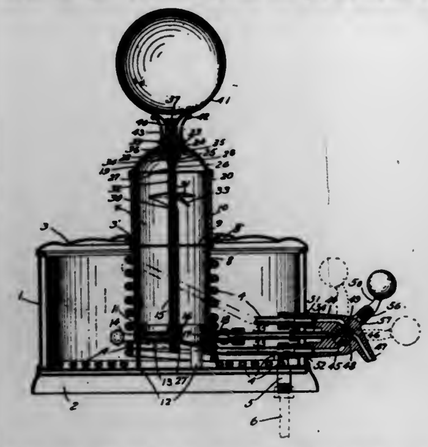
1,451,687. ELECTRICALLY-HEATED BURNISHING MACHINE. HARRY E. DOW, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 6, 1921. Serial No. 467,459. 4 Claims. (Cl. 219—19.)



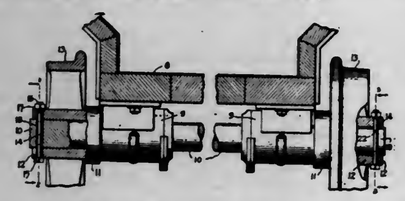
1. In a machine of the class described, a moving tool holder, a reversible tool carrier on said holder, a latch for holding said carrier in operative position, a spring extending between said latch and the fixed frame of the machine, an electric heating unit mounted in said oscillating holder, and a lead for conducting energy to said unit from a suitable source of power, said spring forming a part of said lead.

1,451,688. BEVERAGE-DISPENSING DEVICE. CHARLES M. EARL and BENJAMIN F. WHEELER, Detroit, Mich. Filed May 8, 1922. Serial No. 559,203. 16 Claims. (Cl. 225—30.)

1. In a beverage dispensing device, a chamber having an inlet for beverage under gas pressure and having an outlet for gas, and a receptacle for gas enclosing said outlet and adapted under predetermined pressure of gas to open said outlet and vent said chamber.

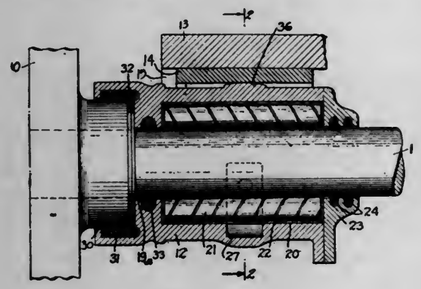


1,451,689. TIGHT AND LOOSE WHEEL. JAMES R. FLEMING, Scranton, Pa. Filed Mar. 4, 1922. Serial No. 540,997. 5 Claims. (Cl. 295—43.)



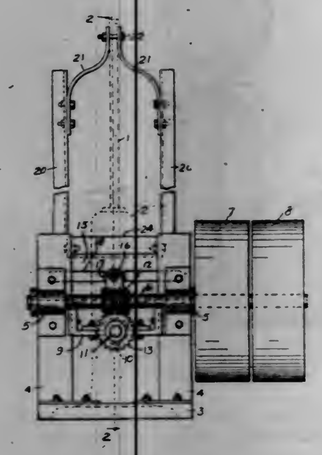
1. In combination, a rotative element, rotative members mounted on said rotative element, and means for securing said rotative members on said rotative element and against accidental removal therefrom, said means being adapted to cause unitary rotation of said element and members in one of its positions of operation, and to allow for relative rotation between said element and said devices in its other position of operation.

1,451,690. MINING-CAR TRUCK. JAMES R. FLEMING, Scranton, Pa. Filed Mar. 30, 1922. Serial No. 548,014. 7 Claims. (Cl. 295—42.)



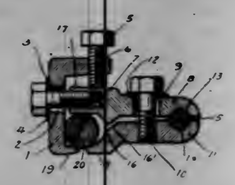
2. A car mounting of the character described, comprising a bearing plate, a journal box below said bearing plate, and means on said bearing plate for supporting said journal box centrally therefrom.

1,451,691. PUMP-ACTUATING MECHANISM. HOWARD F. FREDERICK, Detroit, Mich. Filed May 29, 1922. Serial No. 564,541. 2 Claims. (Cl. 74—14.)



1. In a pump actuating mechanism, the combination with a base of a pair of posts rigidly rising from said base, a drive shaft horizontally mounted upon said posts, a transverse horizontal shaft journaled between said posts, a step-down gearing from the first-mentioned to the last-mentioned shaft, a pair of guide rods rising from said base, a head slidably upon said guide rods, a crank-arm carried upon the driven shaft and actuating the sliding head from said shaft, a brace connection between the upper ends of said posts and the slide rods, and means carried by said head for actuating a pump rod thereupon.

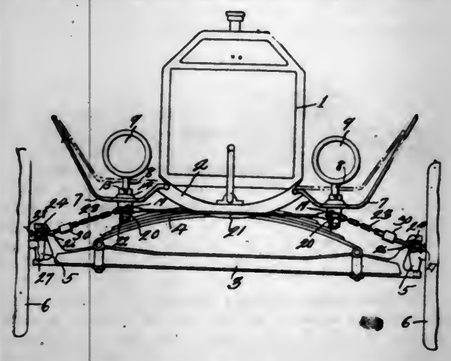
1,451,692. CLAMP. HENRY W. FRENCH, Chicago, Ill. Filed May 16, 1921. Serial No. 469,812. 6 Claims. (Cl. 296—84.)



1. A device of the character described comprising a base member; a clamping jaw longitudinally and perpendicularly adjustable with respect to said base member; and a second jaw adjustably connected to said first jaw and cooperating with said base member to form a clamp.

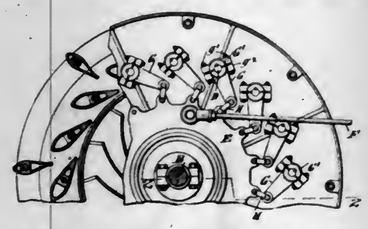
1,451,693. DIRIGIBLE HEADLIGHT. CARL GLAHOLT, Union, N. Dak. Filed Feb. 14, 1922. Serial No. 536,489. 1 Claim. (Cl. 240—62.)

A dirigible headlight mechanism for automobiles, said mechanism comprising vertically disposed pivoted headlight standards mounted in bearings, forwardly extending arms carried by said standards, a connecting rod connecting said arms together, forwardly extending arms carried by the steering knuckles of the vehicle, transversely disposed downwardly and outwardly extending chains carried by the arms of the standards, hooks carried by the outer ends of the chains and attached to



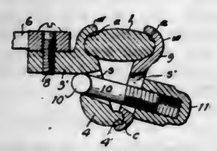
the outer ends of the arms carried by the steering knuckles and adjusting means carried by said chains whereby the same may be lengthened or shortened.

1,451,694. WICKET-GATE-ADJUSTING MEANS. MAX HAEBERLEIN, Maplewood, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 17, 1921. Serial No. 508,079. 5 Claims. (Cl. 253—122.)



1. The combination, with a shaft, an arm having one end in contact with said shaft and arranged for angular movement in a plane at right angles to the shaft axis, of a yoke arranged to engage the shaft on the side opposite the arm, said yoke being fixed relative to the shaft, said yoke and arm being separated by a clearance space, and a pair of adjustable tension devices located one at each side of the shaft and arranged to hold the arm in adjustable fixed relation to the shaft.

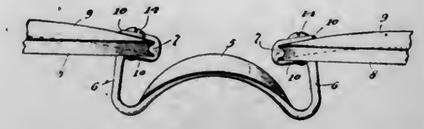
1,451,695. SUPPORTING BRACKET FOR AUTOMOBILE VISORS. FREDERICK HOENER, St. Louis, Mo., assignor to William Modra, St. Louis, Mo. Filed Dec. 19, 1921. Serial No. 523,463. 3 Claims. (Cl. 296—95.)



1. A supporting bracket for automobile visors in combination with a fixed support, said bracket being provided with a clamp for securing it to said support, said

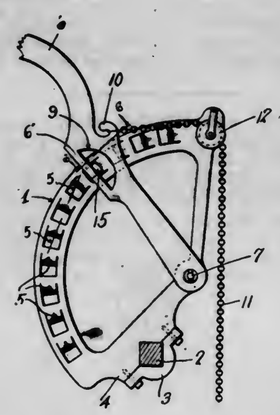
clamp comprising a member fixed to the bracket, and a member detachable therefrom, the detachable member being fulcrumed at one end of the fixed member, a T-bolt adapted to pass through slots in said members and oscillatable therein, and a nut adapted to be passed over the free end of said T-bolt.

1,451,696. OPHTHALMIC MOUNTING. THOMAS MITCHELL HOWE, Louisville, Ky., assignor to F. A. Hardy & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1922. Serial No. 579,608. 3 Claims. (Cl. 88—42.)



2. In ophthalmic mountings, means for receiving a lens including parallel ears engaging opposite faces of the lens, a clamping screw passing through said ears and lens, and a bridge having a shank in alinement with the axis of said screw.

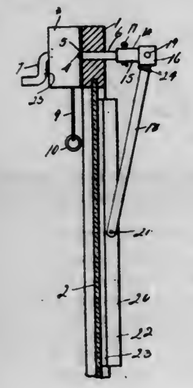
1,451,697. CULTIVATOR ATTACHMENT. LYNN JEFFRES, Greeley, Nebr. Filed Aug. 17, 1921. Serial No. 492,942. 3 Claims. (Cl. 74—39.)



1. The combination with a segment consisting of a metal plate having an arcuate portion, said arcuate portion being provided with radially disposed inclined ribs forming ratchet teeth, a lever pivoted concentric to the arcuate portion, and a fork member carried by said lever and positioned to straddle and engage the ribs selectively.

1,451,698. WINDSHIELD CLEANER. EDWARD KELBER, Harriman, Pa. Filed Mar. 2, 1922. Serial No. 540,398. 2 Claims. (Cl. 15—255.)

1. A wind shield cleaner comprising in combination, a casing or housing, lugs formed therewith through which fastening devices are adapted to pass for attaching said casing to a window frame, a shaft passing through said housing and through the window frame to which said housing is secured, a helical spring coiled about a portion of the shaft within the housing having one end fixed to said shaft and the other end fixed to the housing, a drum fixed to a portion of the shaft within the housing, a pull cord wound about said drum with one end passing through the housing whereby it may be pulled upon by an operator, a stop on the exterior of said housing, a crank carried by the inner end of the shaft for rotating said shaft and coacting with the above mentioned stop to limit the rotation of



the shaft in one direction, a connector attached to the outer end of the shaft, said connector having a pair of spaced ears, an arm having bifurcated ends, one of the bifurcated ends of said arm being located between the spaced ears of the connector, means passing through the spaced ears and the arm for journalling the same to the connector, a spring coiled about said means for normally holding the outer end of said arm rearwardly, and a pivoted squeegee within the outer bifurcated end of said arm.

1,451,699. MANDREL. ORION EUGENE KENT, Reed City, Mich. Filed Mar. 22, 1921. Serial No. 454,519. 1 Claim. (Cl. 82—44.)

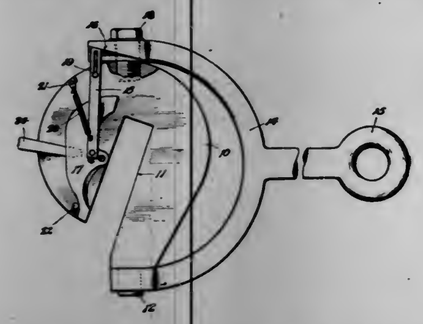


A mandrel comprising an arbor, frustoconically shaped sleeves slidably mounted on said said arbor, one end of the arbor being provided with a cylindrical enlargement integral therewith, an inwardly extending radially disposed lug carried by the inner end of the cylindrical enlargement and disposed in a radially disposed notch in the outer end of one of the frustoconically shaped sleeves and a nut threaded on the other end of the arbor and adapted to cooperate with the outer end of one of the frustoconically shaped members.

1,451,700. SUCKER-ROD-ELEVATING DEVICE. PICKETT G. KILDOW, Iowa Park, Tex. Filed Apr. 27, 1921. Serial No. 465,013. 4 Claims. (Cl. 294—91.)

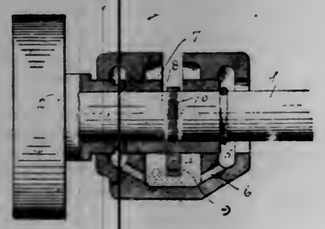
1. A sucker rod elevating device including a body member, a latch thereon movable to closed position locking a rod in engagment with the body member, a

ball connected with the body member, means whereby movement of the ball will shift the latch to closed



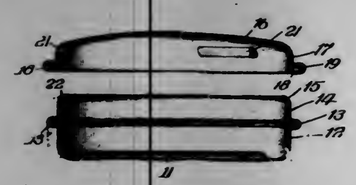
position, and means on the body member independent of the ball and shifting means to lock the latch in closed position.

1,451,701. LUBRICATING APPARATUS. EVERETT P. LARSH, Dayton, Ohio, assignor, by mesne assignments, to The Duro Pump and Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Original application filed Nov. 27, 1916, Serial No. 133,727. Divided and this application filed July 5, 1921. Serial No. 482,419. 3 Claims. (Cl. 64—31.)



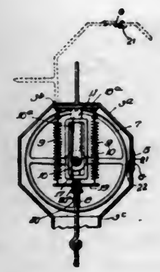
1. In a construction of the character described, a revoluble shaft, an oil reservoir, and an oiling ring suspended upon the shaft, and extending within the oil reservoir, the ring path about said shaft being knurled and the interior periphery of the ring bearing also knurled, substantially as specified.

1,451,702. BLACKING-BOX COVER. GEORGE A. LEIGHTON, Roslindale, Mass., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 15, 1920. Serial No. 417,151. 1 Claim. (Cl. 220—2.)



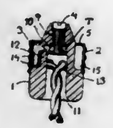
A container for shoe blacking and the like, comprising a body having a circumferential rib and a cover having a depending outwardly turned flange, a plurality of separate indentations being located in said cover spaced at intervals from each other without reducing the height of the cover in such manner that the portions so indented will rest against the upper portion of the body wall, thereby separating said cover flange and body rib sufficiently to permit the insertion of an instrument to remove said cover.

1,451,703. COMPUTING SCALE WITH INTERCHANGEABLE CHARTS. GEORGE M. LUDLOW, Chicago, Ill., assignor to Sanitary Scale Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1921. Serial No. 451,205. 17 Claims. (Cl. 265—39.)



1. In a scale, a rotary cylindrical chart, axial bearings in which said chart is releasably mounted, and a casing for said chart having a movable wall corresponding in position to the geometrical projection of the chart in a direction transverse to the axis of the chart, and providing by its movement an opening that permits removal of the chart bodily in the direction of such projection.

1,451,704. ATTACHMENT PLUG. STANLEY MCCLATCHIE, Cambridge, Mass., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 2, 1919. Serial No. 321,086. 5 Claims. (Cl. 173—359.)

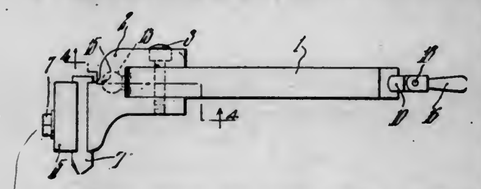


1. An attachment plug comprising a unitary insulating body provided with a center contact, a shoulder, a side contact comprising a screw shell having an inwardly extending flange adapted to engage over said shoulder, wire terminals, one of which is adapted to rest freely on said shoulder beneath said flange, a threaded member seated in said shoulder, and a screw adapted to be received in said member to bind said flange against said wire terminal and secure said shell on the body.

1,451,705. TOOL HOLDER. FRANK JAMES MARTIN, Turners Falls, Mass., assignor to Martin Machine Company, Inc., a Corporation of Massachusetts. Filed Nov. 3, 1921. Serial No. 512,505. 7 Claims. (Cl. 29—98.)

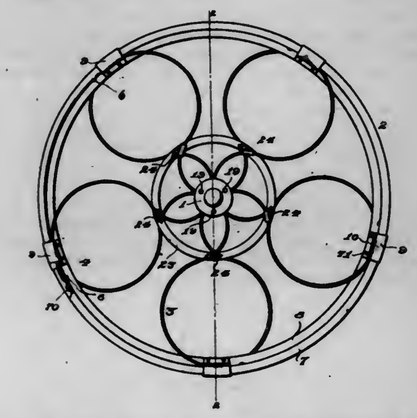
1. A tool-holder, comprising in combination, a shank, a tool-carrying member pivoted thereto for swinging

movement in a direction at right angles to that in which the tool is disposed, and means carried by the shank for



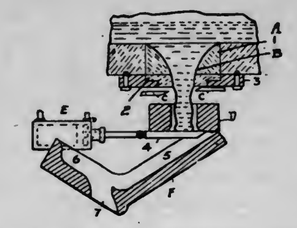
swinging said member into various positions of adjustment.

1,451,706. RESILIENT WHEEL. JAMES F. MILLER, Minden, La. Filed Oct. 22, 1921. Serial No. 509,536. 6 Claims. (Cl. 152—50.)



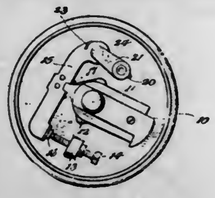
1. A resilient wheel comprising a hub, resilient spokes having their inner ends secured by the hub and their outer ends fitted against the inner surface of the rim with their extremities engaging in the rim, and clips fitted transversely upon the rim and having at their ends re-entrant angles fitting around the flanges of the rim and having their intermediate portions passing over the ends of the spokes whereby to hold them flat against the inner surface of the rim.

1,451,707. PROCESS AND APPARATUS FOR FEEDING GLASS. WILLIAM J. MILLER, Swissvale, Pa. Filed Jan. 7, 1921. Serial No. 435,668. 8 Claims. (Cl. 49—5.)



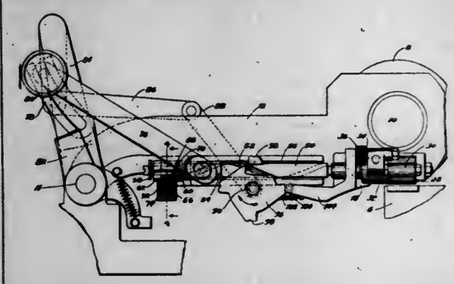
2. The method of feeding molten glass from a container provided with a discharge orifice through which the glass is caused to protrude which consists in accumulating the glass beneath the discharge orifice to form gathers, detaching said gathers from the glass protruding from said orifice, discharging said detached gathers, and reversing the gathers after they are discharged, for the purpose described.

1,451,708. ASSEMBLING TOOL FOR INTERRUPTER ARMS. HOWARD B. MITCHELL, Tacoma, Wash. Filed Sept. 17, 1921. Serial No. 501,491. 5 Claims. (Cl. 29—87.1.)



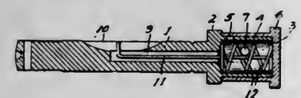
1. A tool of the character described including a stock formed to accommodate an interrupter arm and provided with means for holding said arm against swinging movement and with additional means to engage a spring upon the arm tensioned to swing the arm.

1,451,709. MARKING MACHINE. DENYS WARWICK MORLEY, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 15, 1922. Serial No. 561,094. 17 Claims. (Cl. 41—7.)



1. In a marking machine having an impression member, means for intermittently feeding a strip of marking medium to the impression member, and mechanism for automatically causing a relative movement of the strip and the impression member widthwise of the strip to utilize different lateral portions of the latter.

1,451,710. LUBRICATOR. NAPOLEON PAQUETTE, Detroit, Mich., assignor of one-fourth to May C. Sampson, Ottawa, Kans. Filed Apr. 10, 1922. Serial No. 551,235. 2 Claims. (Cl. 184—92.)

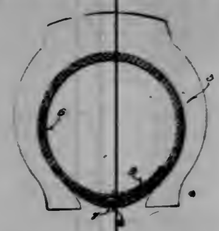


1. A lubricator comprising an oil cup having an outlet passage, a closure for said cup movable longitudinally thereof, a wire prod extending at one end through said passage and resiliently formed at its opposite end and stressed between said cup and closure, and means retaining said closure movably engaged with said cup.

1,451,711. VULCANIZED RUBBER SOLUTION AND PROCESS OF PRODUCING IT. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed May 24, 1918, Serial No. 236,462. Renewed Sept. 19, 1922. Serial No. 589,198. 7 Claims. (Cl. 18—53.)

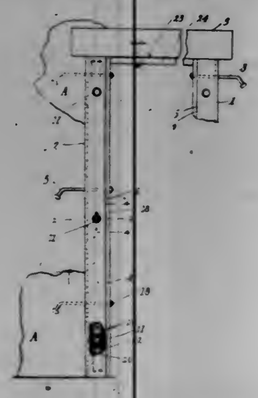
1. A process of making a solution capable of passing through parchment which consists in digesting a mixture of crude rubber and sulphur and a solvent thereof at an elevated temperature.

1,451,712. TIRE BOOT. LLOYD T. PEFFER and THOMAS E. PEFFER, Waukesha, Wis. Filed Feb. 10, 1922. Serial No. 535,552. 1 Claim. (Cl. 152—24.)



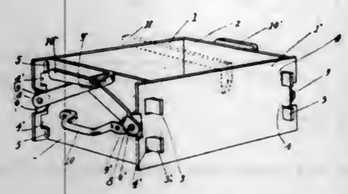
A tire boot comprising a plurality of layers of flexible material adapted to encircle a tire with the edges of the boot juxtaposed, a plurality of looped strips having their ends secured between the layers and having their looped portions projecting outwardly from said juxtaposed edges with the loops projecting alternately from opposite edges to provide a staggered arrangement of alining loops when the boot is in position upon a tire, a substantially rigid member insertable through the alined loops, and an inner protecting flap extending across the juxtaposed edges, said layers and loops being vulcanized to form a substantially unitary structure.

1,451,713. CONCRETE DOOR-FRAME CONSTRUCTION. GEORGE J. SAFFERT, New Ulm, Minn. Filed May 8, 1922. Serial No. 559,240. 6 Claims. (Cl. 72—98.)



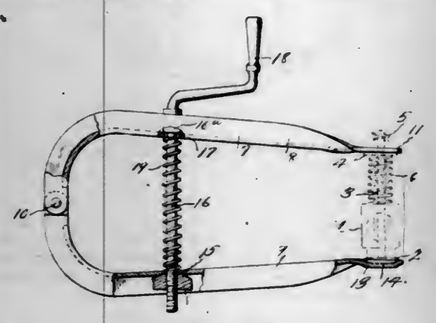
1. A portable article of manufacture comprising an elongated body portion of molded concrete, formed rectangular in cross section, and tubes open at both ends and being vertically spaced and vertically alined and embedded in parallelism in the concrete, the open ends thereof being approximately flush respectively with opposite faces of said body portion, and being located approximately midway of said faces relative to the long edges thereof.

1,451,714. MEANS FOR MOLDING CONCRETE BLOCKS. GEORGE J. SAFFERT, New Ulm, Minn. Filed June 16, 1922. Serial No. 568,856. 7 Claims. (Cl. 25—121.)



1. A concrete block mold, comprising in combination, a side wall, an end wall rigidly joined to said side wall, a tenon extending outwardly from the free end of said end wall, a mortise in said side wall adjacent the free end thereof, a movable wall arranged parallel with said end wall each end thereof being formed with an outwardly extending tenon, one of said tenons extending through said mortise and being slidable in a horizontal plane therein, a side wall parallel with the aforesaid side wall and formed with openings adjacent its ends adapted to slidably receive, respectively, the tenons at the free ends of said end walls, and toggle levers connecting respectively adjacent ends of said side walls for the purpose set forth.

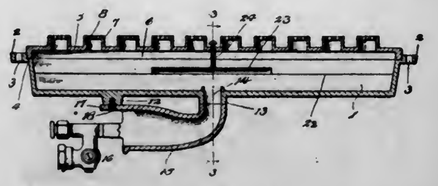
1,451,715. VALVE CAGE VISE AND SPRING REMOVER. ALFRED BRUNO SEPPMANN, Lake Crystal, Minn. Filed May 5, 1921. Serial No. 467,164. 1 Claim. (Cl. 29—86.3.)



A valve spring compressor comprising a pair of pivoted arms pivotally connected together at one of their ends, said arms being provided with outwardly extending spaced reinforcing flanges, the ends of said arms terminating in horizontally disposed portions, between which portion a valve cage having a valve spring may be disposed, a shaft extending through one of said arms between its flanges, said shaft being threaded through a rectangular shaped nut disposed between the flanges of the other arm, said flanges engaging the opposite sides of the nut and holding it against rotation, a coiled spring surrounding said shaft and normally forcing the arms apart, and a crank carried by said shaft whereby the same may be rotated for adjusting the arms in relation to each other.

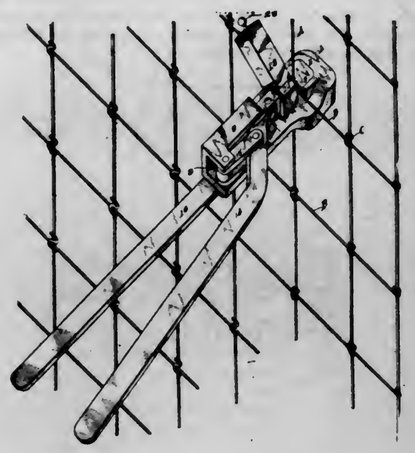
1,451,716. GAS BURNER. GEORGE E. SHARPE, Steubenville, Ohio. Filed Feb. 15, 1922. Serial No. 536,775. 4 Claims. (Cl. 158—104.)

1. A gas burner comprising a trough, a cover secured upon the trough and provided with burner tips, the trough being provided with an inlet port in its bottom, a baffle disposed within the trough over the inlet port



and resting on the side walls of the trough, and means carried by the cover for retaining the baffle in place.

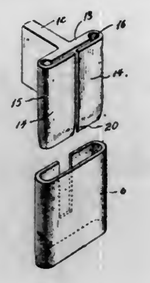
1,451,717. HAND TOOL. HENRY G. SOMMER, Peoria, Ill., assignor, by mesne assignments, to Keystone Steel & Wire Company, Peoria, Ill., a Corporation of Illinois. Filed May 26, 1921. Serial No. 472,694. 12 Claims. (Cl. 140—55.)



1. In a tool of the character described, in combination, a die, a staple magazine movable toward and from the die and adapted to co-act with the latter to clamp strand and stay wire therebetween, plunger means to evict the staples from said magazine, and force them about the intersections of such strand and stay wires, and manually operable means for actuating said plunger means.

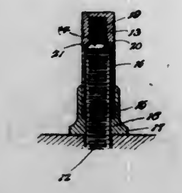
1,451,718. ADJUSTABLE ATTACHMENT FOR REMOVABLE BRIDGEWORK. ISIDORE STERN, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,766. 10 Claims. (Cl. 32—12.)

1. A denture attachment for use in connection with removable bridge work of the type having a socket to receive the attachment and hold a bridge in position, comprising a shank by which the attachment is anchored to the bridge, a head made on the bridge and fitting into the socket, said head comprising a substantially rectangular plate, a wing integrally formed on two opposite edges of the plate to provide a pair of wings having adjacent edges approximately meeting in the center of the plate, and the aforesaid wings being constructed of metal pieces comparatively thinner than the aforesaid plate and being uniform in thickness in order that the wings may be



readily bent outwardly to increase the over-all thickness of the head to effect a close fitting connection with the socket.

1,451,719. DUST CAP FOR TIRE VALVES. THOMAS JEFFERSON STEPHENS, Spokane, Wash. Filed Dec. 21, 1921. Serial No. 523,985. 1 Claim. (Cl. 152—12.)

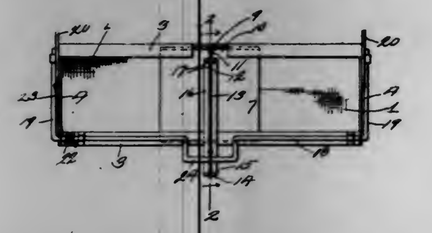


In a dust cap for tire valves, the combination with a valve casing provided at its upper end with a reduced nipple and formed at the base of said nipple with a beveled shoulder, of mating telescopic cap sections one providing a nut threaded upon said casing and the other snugly fitting in said nut next to the casing and having the wall thereof thickened at its upper end to provide a reduced internal axial socket having threaded engagement with said nipple, the thickened portion of said wall being cut away at the mouth of said socket to define an internal beveled shoulder, and a gasket resting upon the latter shoulder to overlie said first mentioned shoulder, the latter section being adjustable upon the nipple for binding the gasket between said shoulders forming a sealed joint between the latter section and the casing.

1,451,720. EXTERMINATOR TRAP. CHRISTIAN J. SWANK, Topeka, Kans. Filed Nov. 2, 1922. Serial No. 598,529. 3 Claims. (Cl. 43—61.)

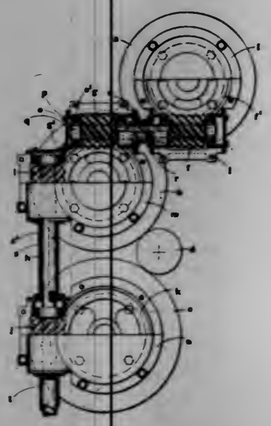
1. A trap comprising an elongated casing having a chamber therein and entrances at the ends thereof, a rock shaft mounted in bearings on the upper side of the casing adjacent one side thereof, the ends of the shaft being provided with arms angularly disposed and beyond the ends of the casing, closures carried by said arms and positioned to register with the entrances when the arms move downwardly, ears carried by the ends of the casing and forming means for limiting the downward movement of the closures, spring means for normally forcing said arms downwardly, a crank carried by said shaft, a supporting bracket carried by the casing, a member pivoted on the supporting bracket and extending transversely of the casing and over the crank, spaced guide

fingers between which the pivoted transverse member is disposel, a transversely pivoted platform disposed within the chamber of the casing, an upwardly extending arm carried by the platform and extending through the upper



side of the casing and an inwardly extending lug carried by the upwardly extending arm and adapted to engage over the free end of the transversely disposed pivoted member.

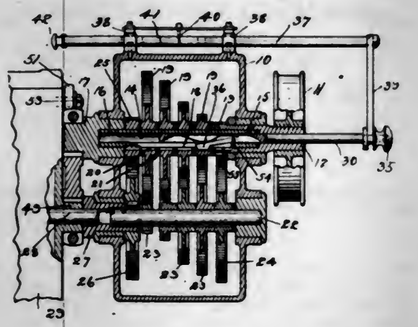
1,451,721. ROTARY PRINTING PRESS. ARTHUR TERRY, Hayes, England. Filed July 29, 1922. Serial No. 578,476. 2 Claims. (Cl. 101—216.)



1. A rotary printing press comprising an impression cylinder and a plate cylinder, a worm wheel on each cylinder, a plurality of shafts having worms thereon meshing with the worm wheel on the plate cylinder, a distributing drum having a worm wheel thereon, and a worm on each shaft meshing with the worm wheels on the distributing drum and impression cylinder respectively, the said worms and worm wheels having threads of such a pitch as to permit of reversed driving of the worm wheels from the worms in reducing the speed of the press or slowing down.

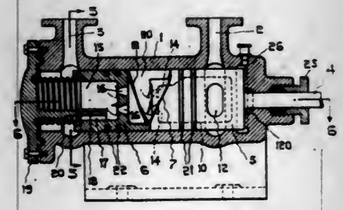
1,451,722. SPEED-CHANGING MECHANISM. FRANK A. VALENTINE, Apponaug, R. I., assignor to Henry L. Scott & Company, Providence, R. I., a Copartnership comprising Henry L. Scott and David C. Scott. Filed Apr. 27, 1920. Serial No. 376,904. 6 Claims. (Cl. 74—59.)

6. A speed-changing mechanism comprising a casing, a main and a jack-shaft in said casing, a pulley on said main shaft, main drive gears, a plurality of intermediate gears mounted on said shafts, means for engaging any of said sets of intermediate gears to vary the working speed of said drive gears, a power transmission shaft, an



adjustable arm supporting said casing in the desired adjusted position about the axis of said transmission-shaft to tighten the belt on said pulley, and means for locking said arm in adjusted position.

1,451,723. COMPRESSOR. CARL W. VOLLMANN, Montreal, Quebec, Canada. Filed Apr. 28, 1921. Serial No. 465,349. 9 Claims. (Cl. 230—27.)

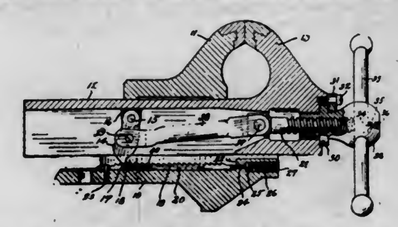


1. A compressor for air and other gaseous fluid consisting of a cylinder having intake and outlet ports near its opposite ends, and a cylinder head; such cylinder containing a chambered rotary member near one end and a chambered reciprocal compressive member near its opposite end, the chambered rotary member being adapted to receive air or other gaseous fluid from the intake port, valve controlled ports in one end of the chambered rotary member, the adjacent end of the compressive member having valve controlled ports, means whereby the rotation of the rotary member imparts axial reciprocal movement of the compressive member and means for preventing rotation of the reciprocal compressive member.

1,451,724. QUICK-ACTION VISE. PERCY H. D. WALKER, Meriden, and LEWIS L. TURNER, South Meriden, Conn., assignors to The Charles Parker Company, Meriden, Conn., a Corporation of Connecticut. Filed June 27, 1922. Serial No. 571,277. 8 Claims. (Cl. 81—30.)

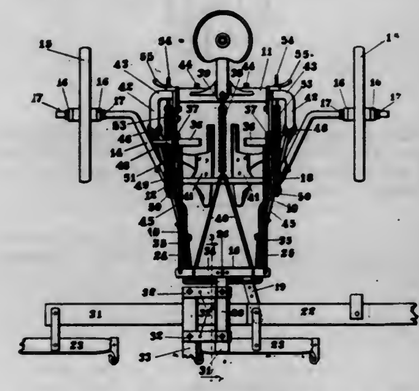
8. A vise comprising a body having a jaw, a slide guided in said body and provided with a jaw, a toothed rack carried by the body, a pawl pivoted to the slide and adapted to engage said rack, a rotatable head carried by

the slide, a longitudinally movable screw having threaded engagement with said head whereby rotation of the head



will move the screw longitudinally of its axis, a link pivoted to the screw and pawl, and means for rotating the head.

1,451,725. BEET PULLER. CHARLES E. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed May 5, 1919. Serial No. 294,634. 9 Claims. (Cl. 55—106.)

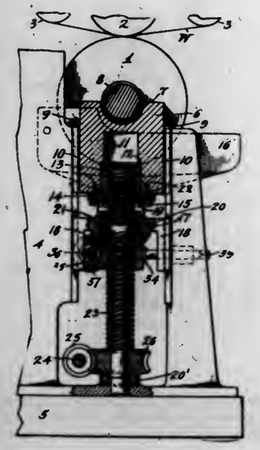


1. In an agricultural implement, the combination of a wheel-supported frame, earth-engaging devices depending from the frame, a tongue pivotally connected with the front portion of the frame, means connected with the tongue and operable by the driver from his seat for applying lateral pressure to the pivotal connection of the tongue to divert the machine from a direct line of travel, and means connected with the tongue and frame normally tending to hold the frame against lateral turning.

6. In an agricultural implement, the combination of a wheel-supported frame, earth-engaging devices depending from the frame, a vertical pivot at the forward end of the frame, a tongue mounted on said pivot, a cross-bar fixedly connected with the tongue and movably mounted on said pivot, links extending rearwardly from opposite end portions of said cross bar, said cross-bar and links constituting means for the driver to apply lateral pressure to said pivot for causing a change in the direction of movement of the machine, and means connecting the said cross-bar and the frame and acting to normally hold the frame against lateral turning.

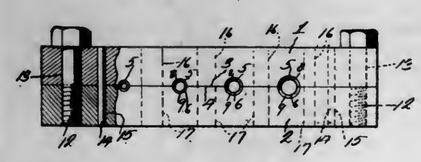
1,451,726. BEARING AND FOUNTAIN ADJUSTMENT FOR INTAGLIO MACHINES. ADOLPH M. ZUCKERMAN, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1920. Serial No. 406,385. 5 Claims. (Cl. 101—153.)

1. In an intaglio printing machine the combination of a printing cylinder, movable bearings therefor, an ink fountain movable towards and from the cylinder, a pair of screw rods, supporting the bearings and fountain and threads of different pitch on the rods for causing simul-



taneous movement of the bearings and fountain different distances to and from the cylinder when the rods are rotated.

1,451,727. TOOL. JAMES E. HARBURG, Denver, Colo., assignor to Yerrick Manufacturing Co., Denver, Colo. Filed Dec. 21, 1921. Serial No. 523,874. 1 Claim. (Cl. 153—79.)

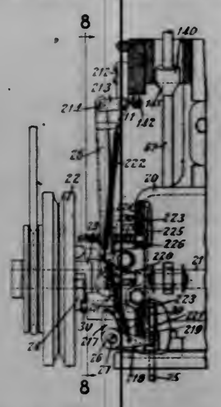


A pipe holding device comprising a pair of parallel registering independent members having registering transversely disposed semi-circular grooves therein, the ends of said grooves being bevelled thereby allowing spreading of the end of a pipe when disposed between the members, bolts extending through the ends of said members and forming means whereby they may be securely clamped together and pins carried by one of said members and adapted to be received by apertures of the other member and forming means for guiding the members as they are moved together into registering engagement.

1,451,728. STOP MECHANISM. ARTHUR R. HAVENER, Wayland, Mass., assignor to American Lacing Hook Co., a Corporation of New Jersey. Original application filed Nov. 23, 1918, Serial No. 263,833. Divided and this application filed May 5, 1921. Serial No. 466,959. 5 Claims. (Cl. 192—139.)

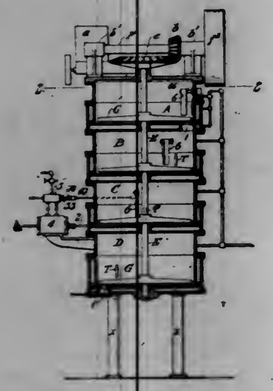
1. A stop mechanism having, in combination, a rotary shaft, a clutch on said shaft, a spring actuated tripper adapted to engage said clutch and unlock the driving member thereof from said shaft, means to move said tripper out of engagement with said clutch comprising a manually operable actuating member and a connecting member adapted to be interposed between said actuating member and said tripper and means actuated by said shaft

to automatically move said connecting member out from between said actuating member and said tripper whereby said tripper at the end of a predetermined plurality of rota-



tions of said shaft may be released and allowed to engage said clutch to unlock the driving member from the driven member of said clutch and stop said machine.

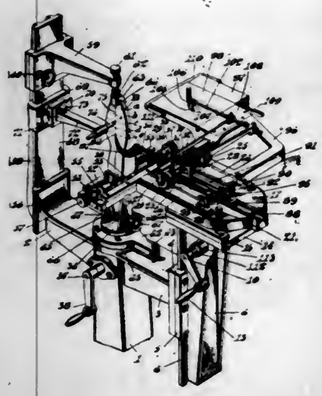
1,451,729. COOKER. NELSON B. HENRY, Atlanta, Ga., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Mar. 11, 1921. Serial No. 451,636. 3 Claims. (Cl. 87—6.)



1. In a cooker for a vegetable mass, a multiplicity of superposed, jacketed cooking pans, each pan provided with an exit passage through the walls thereof; a sliding valve at the exit passage to vary the effective area thereof; motors to actuate each exit valve to vary without closing the valve, the effective area of the exit opening; in combination with means within each pan to actuate the mass in a circular path and means actuated by the movement of the mass to control the motor to vary the area of the exit openings as needed to maintain a predetermined quantity of mass in each pan.

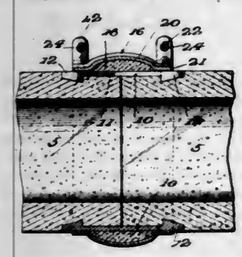
1,451,730. METHOD OF AND MACHINE FOR MEASURING BODIES. JOHN J. HEYS, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 31, 1916. Serial No. 117,910. 69 Claims. (Cl. 33—122.)

1. Improvement in methods of measuring the sectional area of a last, which consists in marking two points on the last, moving the tracer of a planimeter between the two points over one side of the last, returning the tracer carrying mechanism to initial position by a movement corresponding to a movement of the tracing point in a



straight line to initial position, then moving the tracer between the two points over the other side of the last, and returning the carrying mechanism to initial position as before.

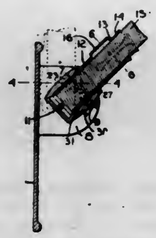
1,451,731. PIPE JOINT. ROBERT W. HIGDON, Atlanta, Ga. Filed June 24, 1921. Serial No. 480,023. 6 Claims. (Cl. 72—23.)



1. The combination with a pair of pipe sections having their meeting ends formed with registering grooves, terminating in sockets of a greater depth than said grooves, of keys received in said grooves and having enlarged heads received in said sockets, the sides of said heads being engaged with the side walls of said sockets whereby to hold the ends of the sections in contact, and means surrounding said keys for holding the keys in position and for uniting said sections and consisting of an annular body of cement.

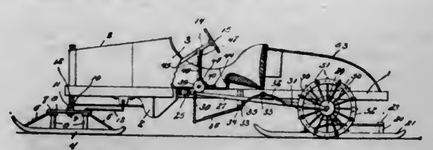
1,451,732. FISH-ROD HOLDER. GEORGE HIPWOOD, New York, N. Y., assignor to Francis C. Mayle, Niagara Falls, N. Y. Filed Feb. 10, 1921. Serial No. 444,031. 4 Claims. (Cl. 224—5.)

1. In a fish rod holder, the combination with a supporting plate and means to attach said plate to a person's body, of a socket member pivoted to said plate, a fish rod having a sleeve applied to the handle thereof, which sleeve



fits into said socket, and a locking latch pivoted to the plate and adapted to lock both the socket in adjusted position and the sleeve in the socket.

1,451,733. MOTOR SLEIGH. WILLIAM ALBERT HORROCKS, Wilton, Me. Filed May 28, 1921. Serial No. 473,524. 1 Claim. (Cl. 180—6.)



In a motor propelled sleigh, a frame having a motor and a body supported thereon, and rear runners carried thereby, uprights rising from the rear runners adjacent the rear end thereof, longitudinal bars supported by the uprights, a pair of downwardly rounded semi-elliptical springs having their upper ends pivotally secured to the frame and their lower ends pivotally secured to the longitudinal bars respectively, spring clips securing the springs intermediate of their ends to the frame, tractor wheels arranged between the rear runners in close relation to each other, an axle shaft for the wheels and being designed to project beyond the opposite sides of the wheels, hangers arranged on the projecting ends of the axle shaft, spring rods disposed longitudinally and having their rear ends secured to the hangers and being provided intermediate of their ends with a bearing eye, a transverse member having its ends secured to the frame, said bearing eyes being pivoted to the transverse member, a second transverse member connecting the free ends of the rods together slightly in advance of the center of the frame and said rods adjacent this connecting point inclined downwardly, drums rotatably mounted above the floor of the body, means for rotating the drums and chains connecting the second transverse member with the drums for the purpose specified.

1,451,734. LEACHING OF COPPER ORES AND RECOVERY OF COPPER. JOSEPH IRVING, Bisbee, Ariz. Filed Jan. 29, 1920. Serial No. 354,855. 16 Claims. (Cl. 75—18.)

1. The process of extracting copper from cupriferous ores, compounds or products, which includes increasing the leaching power of a sulfuric acid ferric sulfate leach by contacting it with a pyritic mass and leaching the cupriferous ore, compound or product therewith.

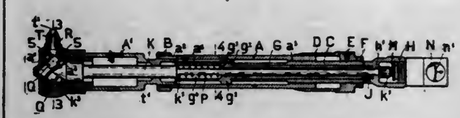
1,451,735. OPHTHALMIC MOUNTING. FRANK N. KRAISSL, Chicago, Ill., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 21, 1918. Serial No. 263,550. 2 Claims. (Cl. 88—47.)

1. In a device of the character described, the combination with a split lens receiving frame, of means for connecting the ends of the frame, including end piece members having divergently disposed arms, and means on the arms for detachably interlocking with the ends of the



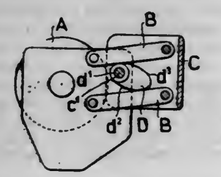
frames, said means being disposed in convergent relation whereby their grip on the frame is increased as the rim is placed under tension by tightening of the end pieces.

1,451,736. INTERNAL GAUGE. KARL LAUER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 29, 1921. Serial No. 518,612. 2 Claims. (Cl. 33—178.)



1. A calipering device comprising a supporting casing, a ball bearing race in said casing, a ball within said race and a conical actuator mounted in said casing with the axis of the contacting conical face of said actuator at an angle to the direction of movement of said ball, said ball bearing race being formed by two surfaces which form an angle with each other.

1,451,737. CASE-SHIFT MECHANISM. KARL AUGUST LEHMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Aug. 3, 1921. Serial No. 489,577. 4 Claims. (Cl. 197—73.)

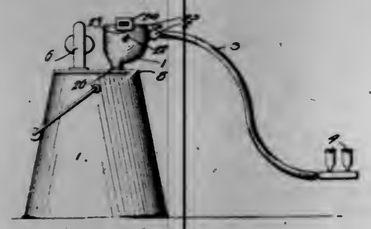


1. In a case shift mechanism for typewriting machines, a platen, means pivotally connecting said platen to the frame of the typewriting machine and means for shifting the platen and limiting the movement of said platen, said means comprising a rolling lever positioned to constantly engage said connecting means, the hub of said rolling lever forming a stop for limiting the movement of said platen.

1,451,738. METER FOR MILKING APPARATUS. WILLIAM L. LEISGE, Atkinson, Nebr. Filed Jan. 24, 1921. Serial No. 439,404. 2 Claims. (Cl. 249—29.)

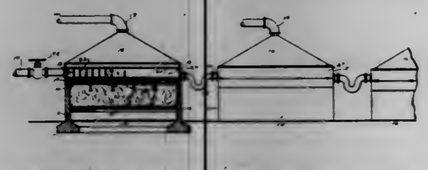
1. In combination with the milking apparatus of the class described, a meter comprising a casing having a cover normally held to its seat by the vacuum produced by the milking apparatus, twin cups pivotally supported within the casing, adjustable means for overbalancing the weight of the cups and the contents of the uppermost cup up to a predetermined weight, means for limiting the upward oscillating movement of the cups when the weight of

the milk in the uppermost cup causes it to discharge the milk and reverse its position, and means for discharging



the milk into whichever of the twin cups is uppermost, said means being connected with the valve tube of the milking apparatus.

1,451,739. APPARATUS FOR REFINING CRUDE OIL. JOHN MAYES, Wichita, Kans. Filed Sept. 13, 1920. Serial No. 409,962. 1 Claim. (Cl. 196—3.)



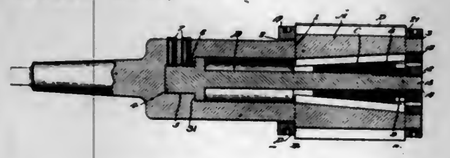
An apparatus for refining crude oils comprising a furnace having a firepot included within the walls thereof, a pan as a base of an enclosed evaporating chamber supported above said firepot and a pipe for gases leading therefrom; bar members slidably supported upon supporting elements in said chamber, a series of horizontally disposed U-shaped members carried by said bars, with their side elements contiguous one another and their ends contiguous one wall of said chamber; a hinged door at the opposite wall of said chamber, and a second series of U-shaped members, similarly arranged but in reversed position with their bases contiguous said door and whereby the end elements of each series register intermediate side elements of the opposite series to provide a tortuous passage in said chamber above the base of the pan; and an inlet pipe connecting to one end of said passage and an outlet pipe leading from the opposite end of said passage for the purposes substantially as specified.

1,451,740. HOLDER FOR COMPACTS. FRANK J. M. MILES, New York, N. Y., assignor to Cheramy, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 30, 1921. Serial No. 518,769. 3 Claims. (Cl. 132—82.)



1. In combination, a container, a receptacle formed of resilient metal and having an outwardly turned flange at the top thereof, a compact compressed within said receptacle so as to be frictionally held therein and to expand it at the said flange to a slight degree, said flange being adapted to have a frictional hold upon the inner wall of said container when said receptacle containing the compact is forced within said container

1,451,741. EXPANDING REAMER. PAUL MILLER, Philadelphia, Pa., Filed May 15, 1922. Serial No. 561,029. 19 Claims. (Cl. 77—76.)



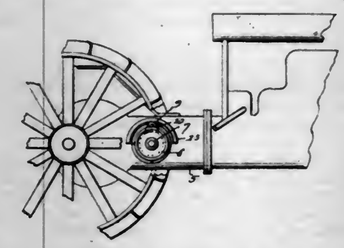
1. An expanding reamer including a body counterbored at one end, and the outer portion of the bore tapering, and the corresponding end of the body radially slotted, tool blades fitted in the slots and having tapered inner edges, a center guiding-bar secured axially within the bore of the body, a plurality of graduated cones slidably mounted upon the bar and presenting a smooth conical surface and means for forcing the cones along the length of the bar and against the inner edges of the blades whereby the blades are simultaneously adjusted radially with respect to the body of the tool.

1,451,742. EXPANDING REAMER. PAUL MILLER, Philadelphia, Pa. Filed Nov. 23, 1922. Serial No. 602,917. 6 Claims. (Cl. 77—76.)



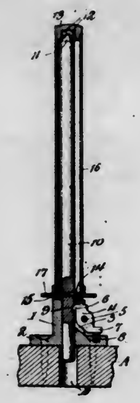
1. An expanding reamer including a body having a bore formed throughout its center, a portion of which is cylindrical, a center guiding rod having a cylindrical portion which fits and is held in the cylindrical portion of the bore, and provided with screw-threads at each end, radially adjustable blades, cones slidably mounted on the rod for engaging the inner edges of the blades, and simultaneously adjusting them uniformly throughout their length, a nut screwed on the threads of the rod for adjusting the cones, and a shank having a portion which fits one end of the bore of the body portion and provided with a screw-threaded socket which receives one of the threaded ends of the center guiding rod.

1,451,743. PULLEY-SHIELD DEVICE. FRED O'HARROW, Rockwell, Iowa. Filed Feb. 27, 1922. Serial No. 539,803. 2 Claims. (Cl. 180—1.)



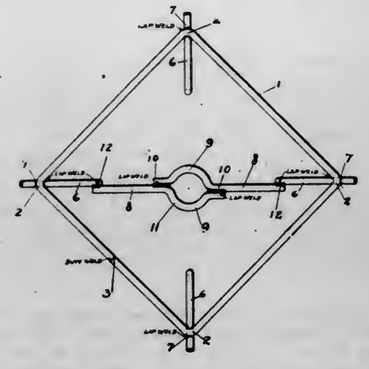
1. In a shield for tractor pulleys, a tractor having a gear casing, a plate applied to the gear casing, said plate having a raised portion forming a shoulder, a bracket having an apertured extension shaped to the contour of the gear casing and a foot, the edge of which engages the edge of the raised portion of the plate, the said bracket projecting over the pulley of the tractor, and a shield carried by the said bracket.

1,451,744. SPINDLE. CHARLES A. PROULX, Woonsocket, R. I. Filed Oct. 28, 1921. Serial No. 511,122. 2 Claims. (Cl. 118—65.)



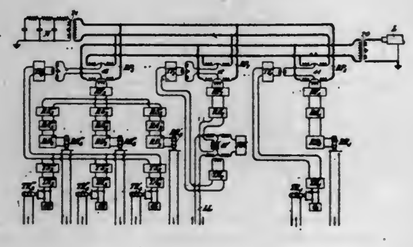
1. In means for the purpose set forth, the combination of a frame, a support arranged on the frame, a spindle arranged in the frame and support, a dog mounted on the support, a detent formed on the spindle to receive the pawl of the dog, a spring for placing the dog under tension, a casing surrounding the spindle, a collar secured to the lower end of the casing, a cap interiorly machined and arranged on the casing and anti-friction means arranged in the cap and bearing on the spindle.

1,451,745. REEL. JOHN SOMMER, Peoria, Ill., assignor to Keystone Steel & Wire Company, Bartonville, Ill., a Corporation of Illinois. Filed Jan. 19, 1922. Serial No. 530,345. 4 Claims. (Cl. 242—77.)



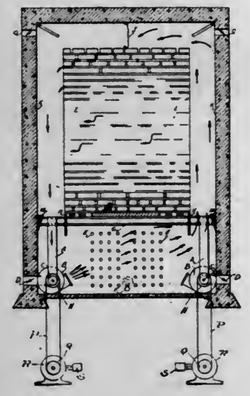
1. A wire reel including rectangular shaped end members, a plurality of horizontally disposed and parallel arranged rods connecting said end members, said rods having angular ends intersecting the corners of said end members at or adjacent the ends of said rods, and spindle receiving ends for said reel comprising overlapping rods formed with matching spindle seats, their outer ends connected with certain opposite parallel rods.

1,451,746. MULTIPLEX SELECTING CIRCUITS. MORTON SULTZER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 23, 1921. Serial No. 524,484. 5 Claims. (Cl. 179—15.)



1. In a signaling system, a main line circuit, a balancing network, a plurality of bridged paths interconnecting said main line and network, a transmitting channel and a receiving channel associated with each bridged path, each transmitting and receiving channel including a filter.

1,451,747. REVERSING BLOWER KILN. HARRY D. TIEMANN and ROLF THELEN, Madison, Wis. Filed Jan. 24, 1921. Serial No. 439,672. 1 Claim. (Cl. 34—46.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

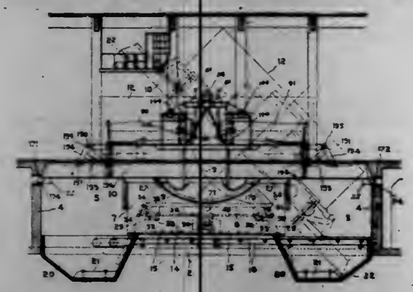


In a dry kiln, two series of blowers placed near the base of the kiln and respectively at opposite sides thereof, two shafts on which said series are respectively mounted for rotation, discharge ducts for said blowers, the ducts of each series respectively being adapted to discharge the drying medium upwardly against the opposite side of the kiln, and means for rotating said shafts whereby they may be driven alternately to cause a reversal of the circulation of the drying medium in said kiln.

1,451,748. APPARATUS FOR LOADING AND UNLOADING RAILWAY CARS. HENRY H. VAUGHAN and EDWARD CORNELIUS GAINES, Montreal, Quebec, Canada. Filed June 1, 1920. Serial No. 385,525. 11 Claims. (Cl. 214—47.)

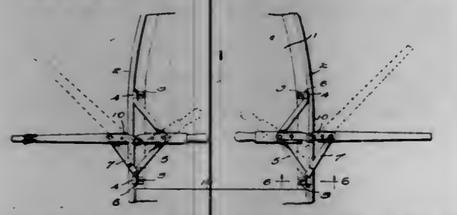
1. The combination with a fixed horizontal supporting means, a tiltable member resting upon said means and

tiltable thereon of power means and means including differential mechanism connecting the power means to



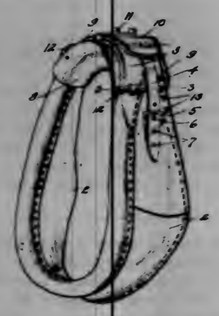
the opposite ends of the member for the purpose of tilting the same.

1,451,749. OAR. ALTON J. WILTROUT, Warsaw, Ind. Filed Apr. 6, 1922. Serial No. 550,159. 2 Claims. (Cl. 9—25.)



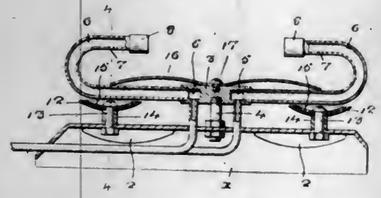
1. In a device of the character described, a pair of posts adapted to be secured to the side of a bolt and spaced from each other, the upper ends of said posts being provided with eyes, a substantially V-shaped supporting member, said member being provided with offset, rounded ends adapted to be received in said eyes to permit movement of said supporting member in a vertical plane, an auxiliary supporting member carried by said V-shaped supporting member and extending in the opposite direction, and an oar formed of two sections hinged to each other, one of said sections being pivotally mounted on each of said supporting members.

1,451,750. HORSE COLLAR. JOHN HOWARD WOODWARD, Columbus, Ohio, assignor to The J. H. & F. A. Sells Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 15, 1921. Serial No. 492,422. 1 Claim. (Cl. 54—19.)



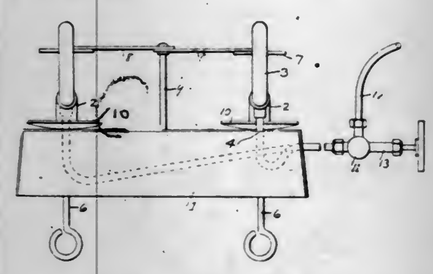
In a horse collar, a substantially yieldable body formed to include integral shoulder pads having separable overlapping neck ends at least one of the said neck ends being provided with a plurality of openings, an adjustable connection between said ends, a neck pad arranged within said collar to bridge said ends, said pad being adjustable to maintain a true central position upon said collar irrespective of relative adjustment between said neck ends, and a securing strap carried by said pad and arranged to pass selectively through one of plurality of openings, whereby the fixed positions of adjustment of said neck pad may be maintained.

1,451,751. BURNER. HENRY ZIEBOLD, Sr., Woodlawn, Ohio. Filed July 25, 1921. Serial No. 487,406. 2 Claims. (Cl. 158—66.)



1. An oil burner comprising a base, a member supported on said base in vertically spaced relation thereto and presenting spaced oppositely disposed sockets, a fuel supply pipe leading to each socket, a burner pipe connected with each socket and presenting horizontally disposed upper and lower elements, the former of which has a jet-opening, a priming cup mounted on the base beneath the lower element of each burner pipe and in line with the jet-opening of the upper element, and a deflector plate mounted on the said socket member and having lateral extensions overlying the said lower elements of the burner pipes and presenting drip-deflecting portions inclined with respect to the said priming cups over which they partly extend.

1,451,752. BURNER. HENRY ZIEBOLD, Sr., Lockland, Ohio. Filed Apr. 1, 1922. Serial No. 548,664. 3 Claims. (Cl. 158—63.)

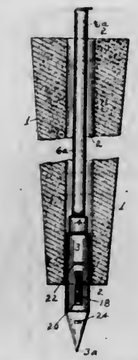


1. A burner of the class described comprising a base, a coupling carried thereby and having a jet opening therein, a tube of loop shape and having its ends connected with the coupling, one end of the tube being closed, means for feeding fuel into the tube adjacent the closed end and a valve for controlling the jet opening.

1,451,753. HYDRAULIC PILING. HARVEY ABRAMES, Norfolk, Va. Filed Oct. 20, 1921. Serial No. 509,058. 1 Claim. (Cl. 61—80.)

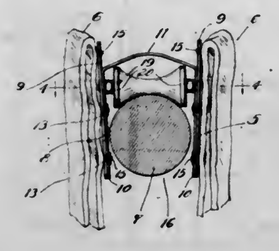
In a device of the class described, the combination with a pile having a longitudinal bore therethrough, of

a cylinder in said bore having a closed point thereon provided with jet orifices, a valve in said cylinder, means extending through the periphery of said cylinder and con-



trolled by said bore for opening said valve, a spring for closing said valve, and means for suspending said cylinder in said bore.

1,451,754. DRAPERY HANGER. GLENN U. ANGEVINE, Chicago, Ill., assignor to Glenn U. Angevine and August H. Schallock, Copartners doing business as the G. U. Angevine Company, Chicago, Ill. Filed May 7, 1921. Serial No. 467,777. 3 Claims. (Cl. 156—21.)

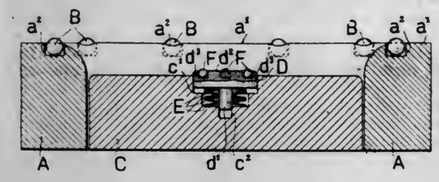


1. A hanger of the character described comprising a frame having a pair of straight laterally spaced legs which incline inwardly toward each other toward the bottom adapted to admit freely between them the supporting rod for said hanger, a single anti-friction bearing roller having the periphery thereof conformed to the contour of said rod to roll thereon, a straight pin for said roller extending across the hanger between said legs and secured thereto to constitute a rigid brace for said frame, and spacers on said pin for spacing said roller relatively to said frame, said frame comprising a substantially U-shaped brace fastened on the inside of the lower portion of said legs by a plurality of eyelets adapted to receive drapery securing means and having its arched portion extending across said frame over said roller and serving as a dust-guard therefor.

1,451,755. METHOD OF PRODUCING A PROTECTIVE COATING ON OBJECTS OF MAGNESIUM OR MAGNESIUM ALLOYS. CHRISTIAN BERGH BACKER, Bergen, Norway. Filed Dec. 16, 1921. Serial No. 522,941. 5 Claims. (Cl. 148—6.)

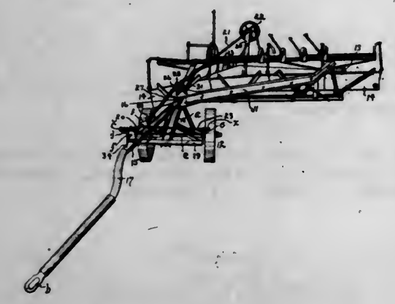
1. Method of producing a coating upon objects and materials of magnesium and magnesium alloys which comprises heating of the objects in the presence of water at a temperature of above 100° C.

1,451,756. SWAGING PRESS. KARL BÖHLE, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,646. 5 Claims. (Cl. 113—49.)



1. In a press of the class described an annular die member, a die block surrounded by said annular die member and movable relatively thereto in axial direction and antifriction means resiliently mounted on said die block, said antifriction means normally extending beyond the front face of the die block for supporting the work to be acted upon before the pressing operation and adapted to be displaced by the work behind the front face of the die block during the pressing operation.

1,451,757. STEERING MEANS FOR DRAWN VEHICLES. BICK R. BONNEY, Omaha, Nebr., assignor to Stroud and Company, Omaha, Nebr., a Corporation. Filed Jan. 31, 1921. Serial No. 441,210. 2 Claims. (Cl. 280—33.10.)



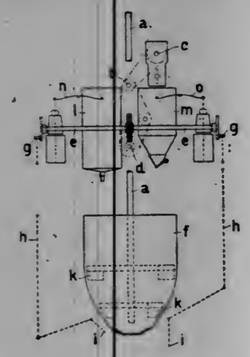
1. In steering means for a vehicle to be drawn by a tractor, a truck connected with and having a reach extending forwardly thereof, a yoke stationary with the reach and having upwardly projecting arms, resiliently mounted slide-bars carried by said arms, a tubular tongue having apertures and connected with the vehicle, a revoluble spool having bearings on the tongue, strands connecting the spools with the slide-bars, and a tongue-extension having a curved part provided with apertures and adapted to be rotated in the tongue to dispose its apertures in register with selected apertures of the tongue to elevate or lower the outer end of said tongue-extension for a connection with the tractor, and a keeper for engaging in said apertures.

1,451,758. MANUFACTURE OF DRY-BATTERY CANS. FRANK G. BREYER and WILLIAM H. FINKELDEY, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 12, 1922. Serial No. 528,865. 6 Claims. (Cl. 204—38.)

1. The improvement in the manufacture of zinc cans for dry batteries which comprises washing the zinc ma-

terial composing the battery can and thereby cleaning the surface thereof to the extent necessary for securing substantially uniform corrosion of the zinc in the normal action of the battery.

1,451,759. AUTOMATIC WEIGHING APPARATUS FOR LOOSE MATERIALS. GUSTAV A. BRUHN, Harburg-on-the-Elbe, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,114. 4 Claims. (Cl. 249—22.)



1. An automatic weighing apparatus for fluent substances, including liquids, comprising a driving mechanism, a plurality of weighing receptacles, means for controlling the charging and discharging of such receptacles, means for temporarily connecting said driving mechanism to said charging and discharging controlling means, and mechanism operated by the movement of such receptacles when filled and empty for controlling the said connecting means.

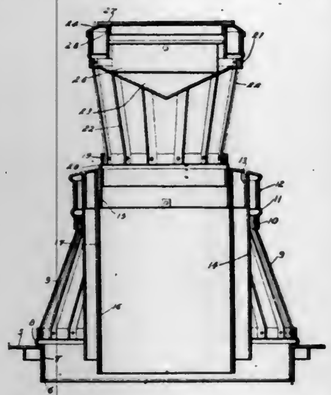
1,451,760. SAFETY CHICK BOX. DAVID HIRAM BUCKS, La Fayette, Ohio. Filed July 6, 1922. Serial No. 573,066. 2 Claims. (Cl. 119—19.)



1. 1 shipping box of the class described comprising an inner section and an outer section, the inner section being supported in spaced relation with the outer section to provide a passageway around the inner section, said inner section having openings to provide communication between the inner section and passageway, a tubular member in the inner section and extending through the bottom thereof, partitioning members within the inner section and dividing the same into compartments, means for closing the openings in the bottom of the inner section, and a cover for the tubular member.

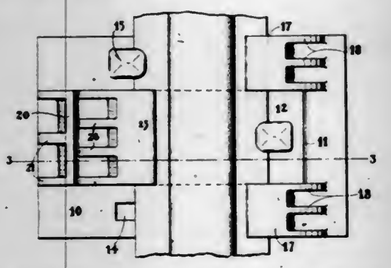
1,451,761. REGISTER. GUSTAV A. BROE, Edgar, Nebr. Filed Apr. 29, 1921. Serial No. 465,564. 1 Claim. (Cl. 98—50.)

In a register, a lower section, a cover for the lower section, a depending flange forming a part of the cover, a cylindrical member positioned over the depending flange, a base section, a collar, arms connecting the base section and collar, said collar being positioned within the cover, a tubular member positioned within the cylindrical member and spaced from the walls thereof, and an upper



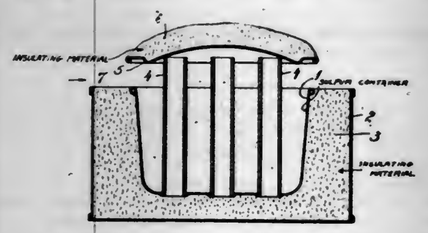
section positioned within the cover and including a plurality of spaced arms.

1,451,762. ANTICREEPER TIE PLATE. BENJAMIN L. CLEVELAND, Chattanooga, Tenn., assignor of one-fourth to S. C. Hutcheson, one-fourth to G. F. Meehan, and one-fourth to F. M. Robbins, all of Chattanooga, Tenn. Filed Nov. 29, 1922. Serial No. 603,983. 3 Claims. (Cl. 238—304.)



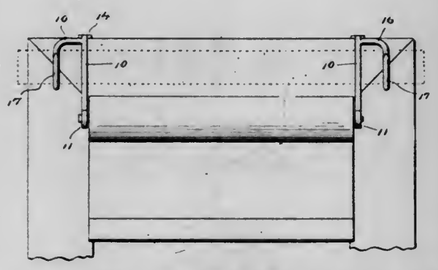
2. An anticreeper tie plate consisting of two flat bottomed rail supporting members provided with cooperating inclined faces each of said members having a rail flange engaging jaw, the jaw of one of said members extending upwardly to engage and support the head of the rail.

1,451,763. BURNING SULPHUR. HAROLD S. DAVIS, Pittsburgh, Pa., assignor to Texas Gulf Sulfur Company, Bay City, Tex., a Corporation of Texas. Filed Nov. 2, 1921. Serial No. 512,393. 5 Claims. (Cl. 23—1.)



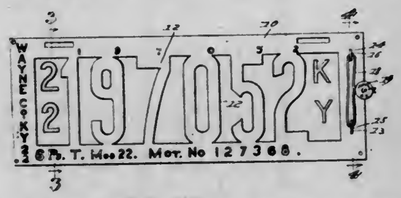
1. The improvement in the burning of sulphur which comprises conducting heat from burning sulphur into the mass of sulphur to be burned through paths of good heat conductivity extending throughout the depth of said mass of sulphur.

1,451,764. BRACKET. SEWARD J. DICK, Clymer, Pa. Filed June 27, 1921. Serial No. 480,713. 1 Claim. (Cl. 156—24.)



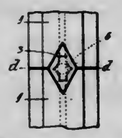
A device of the character described formed of a single piece of shaped metal and consisting of a main shank, a shade roller engaging arm extending outwardly at a right angle from the bottom of the shank, an inwardly extending right angled arm provided at the upper end of the main shank and disposed at an opposite direction to the shade roller engaging arm penetrating prongs formed upon said inwardly extending arm, a laterally disposed arm extending from the juncture of the main shank and the right angled arm and terminating in a hook shaped pole supporting bracket permitting flush engagement with the window casing to its point of curvature, and extending substantially parallel to and above said shade engaging bracket.

1,451,765. LICENSE PLATE. CHESTER C. DOTY, Danville, and CULLOM WATTERSON COFFEY, Monticello, Ky. Filed June 2, 1922. Serial No. 565,328. 2 Claims. (Cl. 40—63.)



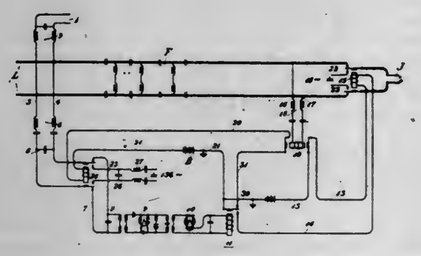
1. A license plate comprising a frame having integral numbers, the plate being cut away to produce the numbers with clearances therebetween, an annual plate back of the first mentioned plate having indicia exposed through the openings produced in forming the numbers, and an element back of the frame for holding the said annual plate, including means for holding the element and plate in assembled relation to each other.

1,451,766. RAIL JOINT. LEANDER EKBERG, Vasteras, Sweden. Filed Jan. 11, 1921. Serial No. 436,418. 4 Claims. (Cl. 238—229.)



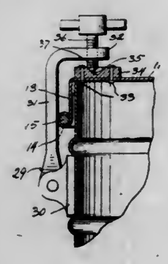
4. The combination with the abutting ends of a pair of rails, of a joining member countersunk into said rails and having its greatest width bridging the joint between the ends of the rails, a depending portion carried by said member and extending between the abutting ends of the rails, a nut threaded on the lower end of said depending portion and adapted to bear against the under-surface of said rails, and means for locking said nut against rotation on said depending member.

1,451,767. COMPOSITE RINGER FOR MULTIPLEX-TRANSMISSION SYSTEMS. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 27, 1919. Serial No. 326,738. 4 Claims. (Cl. 179—4.)



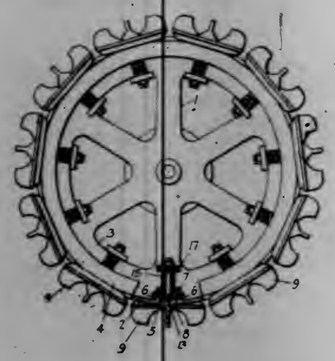
1. A transmission line arranged for the multiplex transmission of currents for purposes of telephoning, telegraphing, and signaling, a composite ringer device including a relatively high frequency circuit and a relatively low frequency circuit, said circuits being associated with said transmission line, and selective arrangements for said telephone currents and said telegraph currents, said selective arrangements for said telephone currents being associated with said transmission line on the terminal side thereof with respect to said relatively high frequency circuit of said composite ringer, and said selective arrangements for said telegraph currents being included in a bridge across said transmission line.

1,451,768. CONTAINER. JAMES M. FALLS, Louisville, Ky. Filed June 28, 1922. Serial No. 571,418. 4 Claims. (Cl. 220—55.)



1. The combination with a container and a pivoted closure for the container having a depending flange formed at its lower end with a reinforcing rib, of an arm pivoted to the container and having an angular portion overhanging the closure, and coacting means carried by the closure and the angular portion of said arm for forcing the arm inwardly to tension the same against said reinforcing rib and force the rib inwardly toward the container.

1,451,769. TRACTOR WHEEL. KENT S. GINGERICK, Urbana, Ohio, assignor to Rial T. Parrish, Dayton, Ohio. Filed May 1, 1922. Serial No. 557,524. 2 Claims. (Cl. 305—13.)



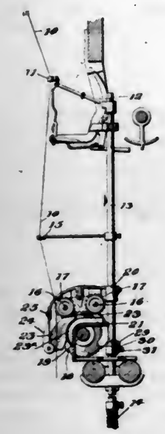
1. In a device of the type described, the combination with a rim having a plurality of holes in its periphery, of a traction member having a pair of lug portions adapted to enter each hole for oscillation therein, an inwardly projecting element pivotally secured at its lower end between said lugs, a spring-support mounted on said rim over each hole, a coil spring encircling said element and bearing against said support, and a cap on the inner end of said element to receive the inner end of said spring.

1,451,770. BULL AND CALF WHEEL. HU MARVIN HARRIS, Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, New York, N. Y., a Corporation of Tennessee. Filed Aug. 31, 1921. Serial No. 497,172. 6 Claims. (Cl. 64—17.)



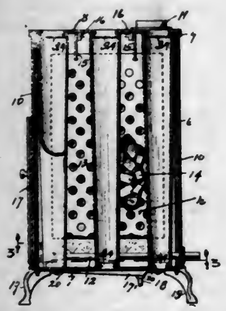
5. A hub for wheels of the types described comprising a plurality of radially disposed sockets each having an open side and a radially disposed web in each of said sockets, said webs being spaced from the side walls of the sockets and extending at right angles to the open sides of the sockets.

1,451,771. ATTACHMENT FOR THREAD DOUBLING AND TWISTING MACHINES. MARTIN F. HAAS, Wilkes-Barre, Pa. Filed Apr. 18, 1922. Serial No. 554,830. 6 Claims. (Cl. 117—21.)



1. The combination with a thread doubling and twisting machine having feed roll gears and a drive gear of a spring-actuated shield adapted to enclose said drive gear when said gears are disengaged.

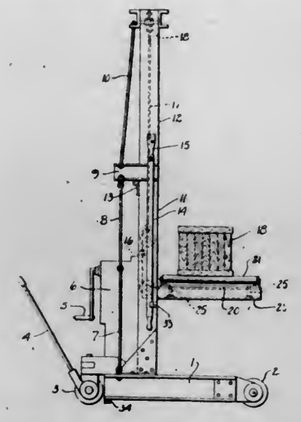
1,451,772. OIL HEATER. THOMAS F. HATTON, Indianapolis, Ind. Filed Sept. 18, 1922. Serial No. 589,020. 3 Claims. (Cl. 126—93.)



1. In an oil heater, a body comprising a top, bottom, and side, said bottom having a plurality of openings and said top having an equal number of openings, and tubes connecting each opening in the bottom with a corresponding opening in the top, said tubes being of increasing area in cross section from top to bottom, a source of heat on or near the bottom, a basket above the source of heat containing a material to store heat, said source of heat and basket being surrounded by said tubes.

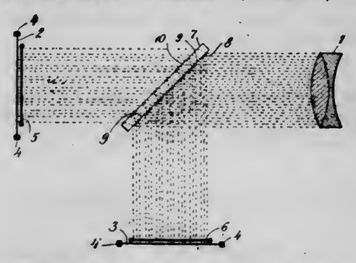
1,451,773. PORTABLE ELEVATOR. ETHAN N. HESCOCK, Westfield, N. J., assignor to New Jersey Foundry and Machine Company, a Corporation of New Jersey. Filed Mar. 6, 1922. Serial No. 541,553. 2 Claims. (Cl. 187—9.)

1. A new article of manufacture for a portable elevator comprising a reversible platform, one surface of the platform being smooth to receive bags and bundles or similar soft containers, and the other surface provided with rollers



to cooperate with boxes, barrels and similar hard containers and permit their more ready handling.

1,451,774. TWO-COLOR PHOTOGRAPHY. JOHN KNIGHT HOLBROOK, New York, N. Y., and MARSHALL DE FRANCISCO, Jersey City Heights, N. J., assignors to D. S. Plumb, East Orange, N. J. Filed June 22, 1921. Serial No. 479,641. 7 Claims. (Cl. 88—1.)



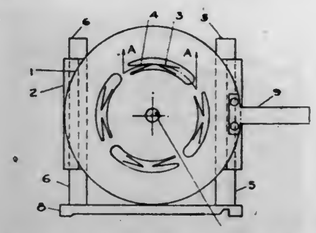
1. A camera for use in two-color photography, comprising a lens, means for supporting two films at right angles to one another, a color screen in front of each film and a light splitting medium arranged at an angle of about 45° to the incoming light, said medium being provided with silvered portions and clear portions, with the silvered portions on the front thereof toward the incoming light, the silvered portions being of such a shape and size with respect to the clear portions and with respect to the thickness of the glass of the said medium as to prevent the lateral projection of rays reflected from the back of said medium.

1,451,775. TOOTHBRUSH. SYLVESTER B. HUSCH, New York, and GEORGE S. HUSCH, Brooklyn, N. Y. Filed May 11, 1917. Serial No. 167,883. 9 Claims. (Cl. 15—194.)



1. The combination with a tube divided into sections longitudinally by scoring, of a plurality of brush sections arranged within the tube, one behind the other, with their bristles substantially parallel with the tube, and partitions in said tube disposed between the brush sections.

1,451,776. MEAT-SLICING MACHINE. GRANTHAM JAQUETTE, Philadelphia, Pa. Filed Nov. 21, 1921. Serial No. 516,855. 1 Claim. (Cl. 17—14.)



In combination a meat slicing machine having a reciprocating carriage, a meat table thereon and means for holding short ends of meat comprising a plate provided with openings with teeth thereon projecting from wall of said openings at an angle to the surface of said plate, and a plate having teeth thereon which protrude therefrom at an angle and extend through the aforesaid openings in the first mentioned plate and cooperate with the teeth on said first mentioned plate to draw the meat firmly against the first mentioned plate, the teeth on both said plates being integral with the plates and formed of the substance thereof.

1,451,777. DEVICE FOR READILY FASTENING TOGETHER LOOSE LEAVES OF PAPER. GERHARD JOBST, Wilmersdorf, Germany. Filed Nov. 5, 1919. Serial No. 335,977. 4 Claims. (Cl. 24—66.)



1. A binder for a sheaf of loose sheets of paper, which sheets are provided with a marginal fold overlying a part of the main body of the sheets, the binder comprising portions in serial arrangement to each other and which are normally located in different planes, one of the portions being adapted for insertion between the inner surface of the fold and the opposing surface of the main body of the sheets, while other portions in serial arrangement with said first named portion are adapted to engage the outer surface of the marginal fold and the outer surface of said main body of the sheaf of sheets respectively.

1,451,778. DISPLAY WINDOW. CLAUDE W. KRESS, New York, N. Y. Filed Apr. 17, 1922. Serial No. 553,945. 6 Claims. (Cl. 20—40.)

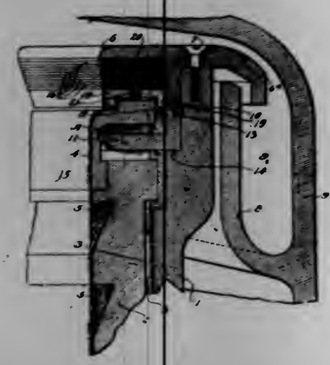
1. A display window comprising two adjacent glass sides, a partition connecting the two extremities of the

glass sides, a floor and a plurality of steps ascending from said floor towards the central portion of the partition, the



contour of each step more nearly approaching a straight line than that of the step beneath it.

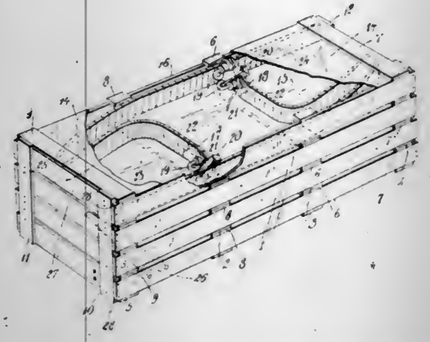
1,451,779. CENTRIFUGAL SEPARATOR. RALPH E. LAPHAM, Oakland, Calif. Filed Dec. 24, 1921. Serial No. 524,677. 21 Claims. (Cl. 83—67.)



1. In a separating machine having a mercury circuit, filtering means interposed in a portion of the circuit and including a metallic filtering body through which the mercury flows in an amalgamated engagement.

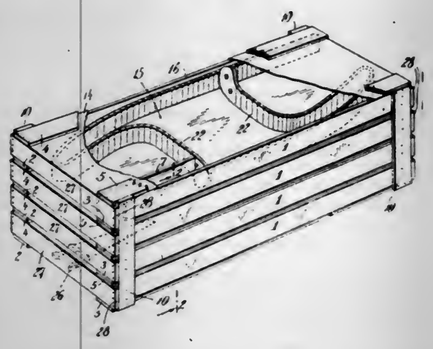
1,451,780. SEPARABLE MULTIPLE UNIT BUMPER PACKAGE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Oct. 31, 1919. Serial No. 334,671. 6 Claims. (Cl. 206—46.)

1. The separable multiple unit package for automobile bumpers or the like, comprising a plurality of vertically piled units each comprising wooden end pieces and cooperating side pieces secured thereto and having ends projecting therefrom, each unit containing the disconnected parts of an automobile bumper comprising resilient strip members wrapped with paper and having the impact receiving members adjacent said sides and having the ends of the transversely extending connected attaching members arranged adjacent the other impact receiving member and having the hook bolts and bushings loosely bolted through the apertures in said attaching members and having the clamping devices loosely arranged on said attaching members between said hook bolts, paper board covers on the top and bottom faces of said unit and transverse wood retainer strips secured outside of said covers at each end



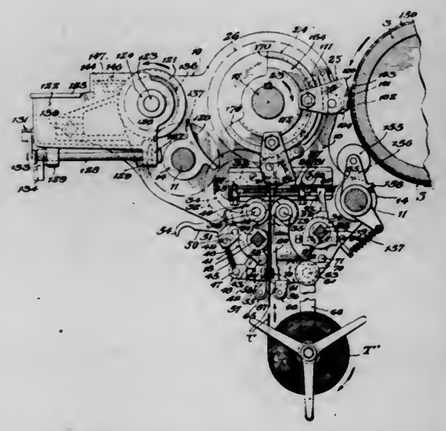
of said unit to cooperate with and retain the ends of said impact receiving members, and also arranged intermediate said ends in substantial alignment with said attaching members and separable wood strip connectors nailed to said units within the angle formed by said projecting ends of said sides and the adjacent faces of said ends to form a multiple unit package in which the units mutually reenforce and protect each other.

1,451,781. BUMPER PACKAGE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed May 21, 1921. Serial No. 471,374. 4 Claims. (Cl. 206—46.)



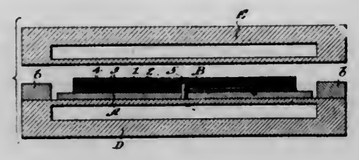
1. The separable multiple unit package for automobile bumpers or the like, comprising a plurality of vertically piled units each comprising wooden sides and cooperating ends secured thereto and having ends projecting therefrom, each unit containing the disconnected parts of an automobile bumper comprising resilient strip members adjacent said sides and having the end of each transversely extending connected attaching member arranged adjacent the other impact receiving member, paper board covers on the top and bottom faces of said unit and wooden retainer strips secured outside of said covers at each side of said unit and nailed to said sides to cooperate with and retain the ends of said impact receiving members and attaching members, an inner wooden partition member extending between one of said attaching members and the box end and nailed to the adjacent retainer strips to form an inner wooden compartment within said unit to contain attaching devices and separable wood strip connectors nailed to said units within the angle formed by the projecting ends of said box ends to form a multiple unit package in which the units mutually reenforce and protect each other.

1,451,782. STAY OR TAB APPLYING MACHINE. CHARLES H. NITSCH and WILLIAM A. WEIGHTMAN, Logan, Philadelphia, and WILLIAM H. STREEPER, Frankford, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1922. Serial No. 540,290. 80 Claims. (Cl. 93—54.)



1. In tabbing mechanism, an operative unit comprising a tab strip feed means, a strip retarder operated in conjunction with the feed means, a cutter, and means for grasping, advancing, gumming and applying severed tabs.

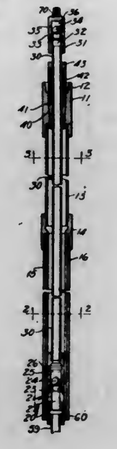
1,451,783. MOLDED SOUND-REPRODUCTION ARTICLE. EMIL E. NOVOTNY, Logan, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Jan. 21, 1921. Serial No. 438,926. 3 Claims. (Cl. 154—43.)



1. A sound record having a grooved sound reproducing face formed from a welded layer of synthetic resin.

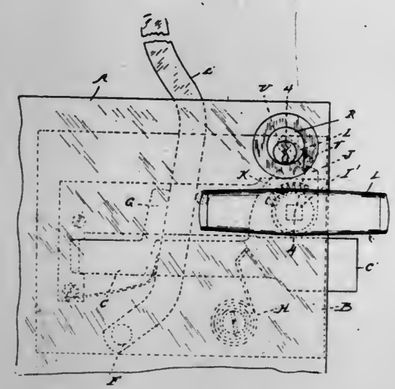
1,451,784. OIL-WELL PUMP. ALBERT A. OLSEN, Ranger, Tex. Filed Dec. 6, 1921. Serial No. 520,255. 12 Claims. (Cl. 103—179.)

1. A fluid pump for use with a well casing comprising a casing, a pump barrel, a plunger operating in the pump barrel, valve mechanism permitting the flow of the fluid in one direction, and means cooperating with the plunger



to positively prevent contact of abrasive in the fluid pumped with any points of frictional engagement of the plunger and barrel.

1,451,785. VEHICLE DOOR LOCK. LLOYD R. RHEIN, Detroit, Mich., assignor to C. R. Wilson Body Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 19, 1920. Serial No. 404,574. 2 Claims. (Cl. 70—29.)



1. In a vehicle door lock, the combination with a bolt and means normally projecting the same, of interior means for retracting the bolt, exterior means for retracting the bolt, including a cam engageable with the bolt and provided with a locking shoulder, a locking member movable both rotatively and rectilinearly into or out of engagement with said locking shoulder, means located interiorly of the door for rectilinearly actuating said locking member into engagement with said locking shoulder, and key operable means located exteriorly of the door and rotatively actuating said locking member out of such engagement.

1,451,786. PROCESS FOR THE PURIFICATION OF COMMERCIAL PHOSPHORIC ACID BY CRYSTALLIZATION. WILLIAM H. ROSS, CHARLES B. DURGIN, and RUSSELL M. JONES, Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Filed Apr. 19, 1922. Serial No. 555,602. 11 Claims. (Cl. 23—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A process for the purification of phosphoric acid which consists in evaporating the acid at a temperature below 150° C. to a specific gravity of 1.85 $\frac{20°}{20°}$ C., or above, then cooling the same to a temperature below 40° C., then inoculating the same with a crystal of phosphoric acid, then centrifuging the resulting crystalline mass to effect a separation of the crystals from the mother liquor, then melting the said crystals at a temperature above 40° C., then adding water to the said melted crystals to bring same to a specific gravity of 1.85 $\frac{20°}{20°}$ C., or above, cooling below 40° C., subsequently inoculating said melted crystals with a crystal of phosphoric acid, centrifuging and repeating as desired.

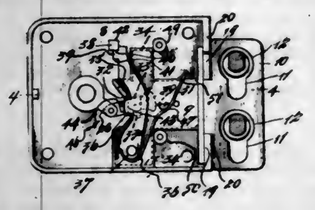
1,451,787. COIN-OPERATED VENDING MACHINE. EDWARD SCHULTZ, Maywood, Ill., assignor, by mesne assignments, to Mrs. E. A. Laughery, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,350. 9 Claims. (Cl. 194—2.)



8. In a machine of the kind described having a movable carriage together with means connected therewith for imparting movements thereto, the combination of coin mechanism including a plurality of chutes each for coins of a different denomination, locking means arranged normally to permit only a limited movement of the carriage, and means for retracting the locking means operable by initial movement of the carriage only when a selected combination of coins has been received within these chutes, associated with other means adapted to effect a desired modification of the coin combination requisite for retraction of the locking mechanism, substantially as described.

1,451,788. LOCK. MORRIS SHEINMAN, New York, N. Y., assignor to Wilson Bohannan, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 30, 1921. Serial No. 481,542. 16 Claims. (Cl. 70—46.)

6. In a lock mechanism, a casing, a bolt slidably mounted within the casing, a latch carried by the bolt to hold same in locked or unlocked position, a key operated cam arranged to first release the latch and thereafter to operate the bolt, a knob operated arm, means actuated by the arm to first release the latch and thereafter to operate the bolt, a plate pivotally connected at one end to said arm and engaging means carried by the bolt located adjacent



said plate, arranged to engage said plate when said arm has been moved to a predetermined extent, and means carried by the plate to release the latch before said bolt and plate become engaged.

1,451,789. STROPPING MACHINE. CLARENCE E. SMITH, Peoria, Ill. Filed July 3, 1919. Serial No. 308,416. 7 Claims. (Cl. 51—140.)



6. A stropping machine including in its construction a closed casing, a member pivotally mounted therein, a rocking part mounted in the member capable of holding a razor-blade, a frame operatively connected to the same and adapted for movement to rock the latter, a stropping part mounted on the frame adapted for movement perpendicularly to the axis of movement of the part, and means extending outside the casing by which to swing said member.

1,451,790. BLADE HOLDER FOR STROPPING MACHINES. CLARENCE E. SMITH, Peoria, Ill. Filed Aug. 25, 1919. Serial No. 319,799. 4 Claims. (Cl. 51—218.)



2. In combination, a U-shaped member, an inverted trough-like member lying between the extremities thereof journaled at one end in one of said extremities, a disc-like member fixed at the other end and journaled in the other extremity of the U-shaped member, that end of the member to which the disk-like member is affixed having an opening therein coextensive with the diameter of said disc-like member, the latter being of two parts spaced in the same plane with the trough of said trough-like member, and a second trough-like member slidably engaging the first said trough-like member and adapted to be withdrawn between the separated disc portions.

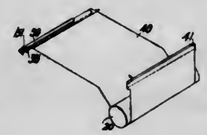
1,451,791. MANIFOLDING PACK AND HOLDER. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1920. Serial No. 411,181. 10 Claims. (Cl. 282—29.)

7. A holder for a transfer-sheet pack to facilitate manifolding in a typewriting machine, comprising a holding portion, a forward extension to enable the holder to remain under the control of the platen and feed-rolls when the holding portion is moved to the rear thereof, said forward extension lying to the rear of the pack to avoid interference with typing, a rearward extension of sufficient length to extend between the platen and the feed-



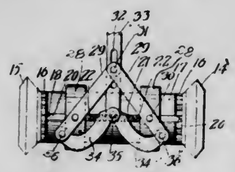
rolls when the holding portion is moved to the front of the platen, and a front flap extending from the holding portion to receive the rear end of a worksheet to facilitate the front insertion thereof at the outside of said pack.

1,451,792. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 22, 1920. Serial No. 412,013. 8 Claims. (Cl. 197—126.)



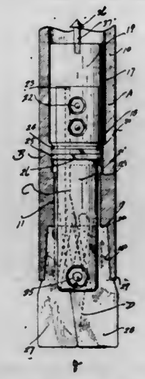
1. A typewriter, a platen, type for printing on a plurality of webs on one side of the platen, a carbon sheet back of the first web, a slide to which the carbon sheet is attached, said slide also having attached thereto a guide sheet in front of the outermost web, said guide sheet being limited to extend only over part of the carbon sheet leaving the rest free to coact with a loose sheet and carbon sheet guided to position on said web by said guide.

1,451,793. REVERSIBLE DRIVING GEAR. WINFIELD D. SMITH, Newark, N. J. Filed May 17, 1920. Serial No. 381,831. 5 Claims. (Cl. 74—54.)



1. A reversible gear for converting oscillatory into rotary motion, comprising an oscillating driving shaft having a fixed gear wheel thereon, a driven shaft having loose spaced gear wheels meshing with opposite sides of the gear wheel of the driving shaft, a spacing member fast on the driven shaft between the spaced gears, sets of pawls of opposite pitch on the spacing member, and a lever mechanism for selectively actuating the pawls to throw one set into engagement with the spaced gears, and the other set out of such engagement.

1,451,794. DRILL. JOHN C. STOKES, Shreveport, La. Filed May 10, 1920. Serial No. 380,371. 11 Claims. (Cl. 255—78.)



1. In a drill apparatus, a tool holder, a bit carrier slidably associated therewith having a pair of annular grooves, resilient split rings mounted in said grooves and arranged to frictionally engage the inner surface of the tool holder so as to prevent the seeping of water, mud and the like between the tool holder and bit carrier.

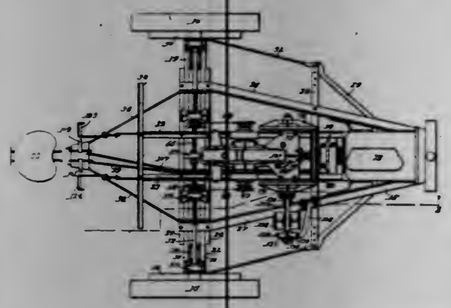
1,451,795. DIRECTION SIGNAL FOR AUTOMOBILES. CHARLES THOMPSON, Hamilton, Ontario, Canada. Filed Mar. 20, 1922. Serial No. 545,271. 1 Claim. (Cl. 116—51.)

In a direction signal device for automobiles the combination with the cowl portion of the automobile and a pair of signal lamps located one at each side thereof, of bearing brackets carried by the cowl, depending journal portions carried by each lamp and extending downwardly through said brackets, rearwardly extending arms fixedly carried by the lower ends of the journal portions below the bearing brackets, a bell crank lever, an operating handle connected to one arm of the bell crank, distance links pivotally connected at one end to the rearwardly extending arms, the other ends of the distance links pivotally connected to the second arm of the bell crank, the bell crank lever being pivotally suspended from the under side of the cowl and adapted to be oscillated by the operating handle for reciprocating the distance links and oscillating the lamps simultaneously in either direction, and directional indicating means carried by each side of the lamps, the lamps normally disposed longitudinally of the automobile and adapted to extend laterally beyond the automobile when in the swung positions.

1,451,796. TRACTOR. LEWIS E. WATERMAN, HARRY R. TRAPHAGEN, and HOWARD L. WATERMAN, Rockford, Ill., assignors to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed June 9, 1919. Serial No. 302,695. 9 Claims. (Cl. 180—17.)

1. In a tractor, the combination of a main frame, a pair of traction wheels, a frame section connecting each

traction wheel with the main frame and adjustable laterally thereon, a jack shaft mounted upon and adjustable laterally with each frame section for driving its respective traction wheel, a motor and transmission



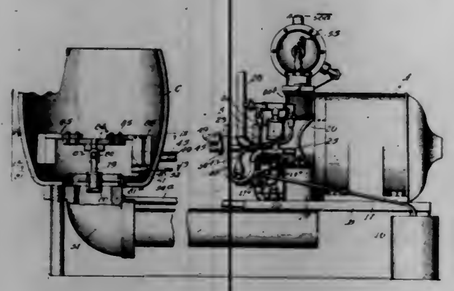
mechanism mounted on the main frame, the transmission mechanism including a differential, each driven member of which has a chain driving connection with one of the jack shafts, and a brake for retarding rotation of each driven member of the differential.

1,451,797. VIBRATOR LEVER FOR LOOMS. WILLIAM M. WATTIE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Oct. 20, 1921. Serial No. 509,128. 5 Claims. (Cl. 139—79.)



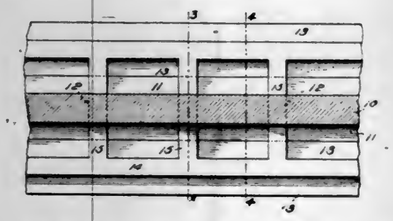
1. In a loom, having a vibrator gear, in combination, a vibrator lever, a block detachably secured to said lever, and bearing and stop projections fixed on said block, said bearing projection supporting said gear and said stop projection limiting angular movement thereof.

1,451,798. LIQUID-FUEL-ATOMIZING DEVICE. WALTER W. WILLIAMS, Bloomington, Ill. Filed Oct. 8, 1920. Serial No. 415,501. 19 Claims. (Cl. 158—36.)



1. The combination with an electric motor, of a rotary pressure pump, an oil feed pump, a burner, a fuel tube connecting said pressure pump and burner, an air inlet means, priming mechanism, and electric switch mechanism for automatically starting and stopping said electric motor.

1,451,799. METHOD OF AND MEANS FOR REENFORCING WALL FOUNDATIONS. JAMES ALGERNON YOUNGBLOOD, Dallas, Tex. Filed Apr. 24, 1920. Serial No. 376,283. 9 Claims. (Cl. 61—51.)



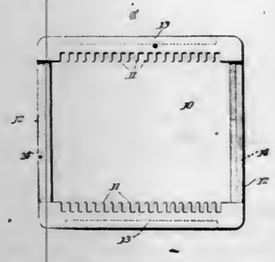
1. The method of reenforcing old walls which consists in cutting a hole in the original wall above the footings thereof, excavating a trench at one side of but no deeper than the original wall foundations, constructing a reenforcing structure in said trench, and uniting said structure to said wall by means of a beam integral with said structure interlocked with the wall and passing through said hole, said beam providing means whereby a part of the weight of the original wall is transferred to the reenforcing structure.

1,451,800. FLEXIBLE CONDUIT. RAYMOND C. AGNER, Burlington, Wis. Filed June 9, 1921. Serial No. 476,304. 1 Claim. (Cl. 285—92.)



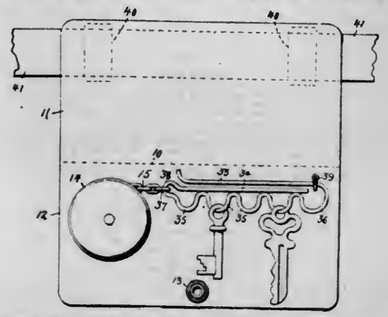
In a device of the class described, a conduit comprising sections connected by ball and socket joints; cores in the sections and having cooperating passages; a casing about the sections; and a filler interposed between the casing and the sections, the filler being resilient, and the casing being flexible.

1,451,801. PROCESS FOR HANDLING, DRYING, AND FORMING PASTED BATTERY PLATES. CHESTER M. ANGELL, Chicago, Ill., assignor to Vesta Battery Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1922. Serial No. 548,785. 4 Claims. (Cl. 204—29.)



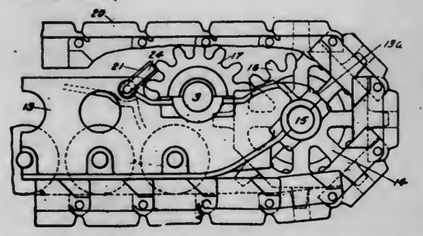
1. In a process of manufacturing storage battery plates, the steps following the pasting operation which consist in assembling a plurality of pasted plates in fixed spaced parallel relation, drying the plates in that relation and subjecting the plates in that relation to the action of an electric current and an electrolyte.

1,451,802. KEY HOLDER. LESLIE G. ANDREWS and RAYMOND R. THEIS, Lincoln, Nebr. Filed Dec. 28, 1921. Serial No. 525,415. 1 Claim. (Cl. 59—96.)



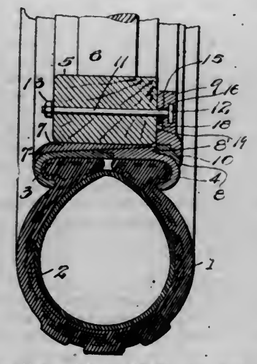
A key holder bent from a section of wire into three portions, two portions in parallel relation, and the third portion further bent into a plurality of spaced loops closed by the adjacent parallel member, the loops adapted to engage the eye portions of the keys and holding them in separated position.

1,451,803. LOCKING DEVICE FOR POWER SHOVELS AND THE LIKE. EDWIN J. ARMSTRONG, Erie, Pa., assignor of one-half to Arthur C. Vicary, Erie, Pa. Filed Aug. 29, 1921. Serial No. 496,474. 6 Claims. (Cl. 188—30.)



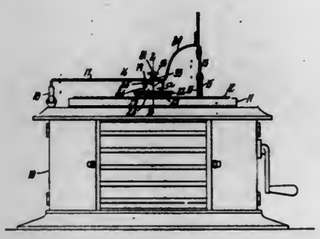
1. In a locking device for power shovels and the like, the combination of a frame; a driving axle on the frame; a driving wheel; and a releasable lock locking the wheel and preventing a rearward movement of the wheel.

1,451,804. LUG RING. AUGUST T. J. BAHR, Detroit, Mich., assignor of one-half to Claire Benton Kline, Dormont, Pa. Filed Oct. 12, 1922. Serial No. 593,936. 1 Claim. (Cl. 301—11.)



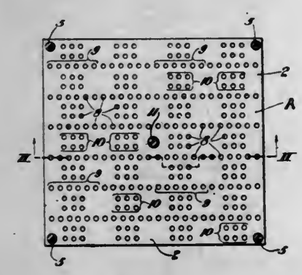
The combination with a wheel rim and felly and a plurality of bolts in said felly having projecting T-heads, a retaining ring engaging said rim and cam faces on said T-heads, of a lug ring having complementary T-slots and cam faces therein for co-action with said heads when the ring is turned, spring pressed latches carried by said lug ring to engage said bolts, and means for releasing said latches.

1,451,805. DANCING TOY FIGURE. WALTER H. BALCKE, Winchester, Mass., assignor to National Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 14, 1921. Serial No. 444,637. 12 Claims. (Cl. 46—40.)



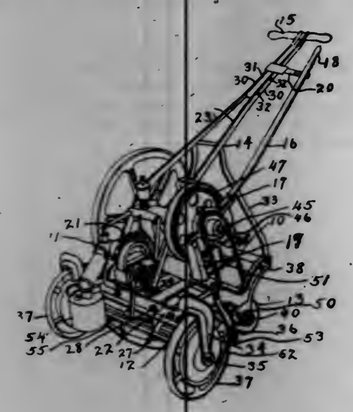
1. In combination, a phonograph embodying a casing, a dancing toy figure, a support on which said figure is mounted, a base resting on said casing to which said support is attached and a rotary member engaging said support intermediate the figure and base and adapted to impart a vertical movement thereto, whereby a dancing motion may be imparted to said figure.

1,451,806. DENTAL TOOL HOLDER. JOSEPH E. BALDRIDGE, Avalon, Pa. Filed May 26, 1922. Serial No. 563,927. 3 Claims. (Cl. 32—10.)



2. A sterilizable dental tool holder comprising in combination, a block composed of three parallel plates spaced one above the other, the two uppermost plates being provided with a plurality of alined apertures, and the lowermost plate being unapertured to form a stop for the tools, some of the apertures in said two uppermost plates being arranged in single row groups for the reception of new and unused tools, and the remaining apertures being arranged in double row groups alongside of each of said single row groups, said double row groups being adapted to receive the used tools from said single row groups, a centrally arranged handle extending upwardly from the top plate, and a cover member adapted to fit over said block and provided with a suitable aperture through which said handle projects when said cover member is in place.

1,451,807. TRACTOR LAWN MOWER. WILLIAM HALL BALDWIN, Middletown, Conn. Filed Nov. 12, 1919. Serial No. 337,385. 3 Claims. (Cl. 56—26.)



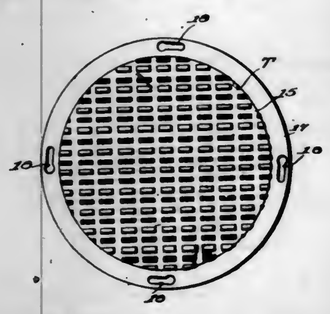
1. A tractor lawn mower combination comprising a frame, an engine supported by the said frame, a pair of lawn mower driving wheels supporting the front end portion of the said frame, a tractor roll supporting the rear end portion of the said frame, means for operatively connecting the two end portions of the said roll with the said frame, and the said means being provided with adjusting devices that are adapted to permit of adjusting the vertical relation of the said two end portions of the roll relatively to the frame, whereby the parts can be adjusted so that the part of the roll and the parts of the driving wheels that contact with the ground will be substantially in a common plane.

1,451,808. COMBINED SPARK INTENSIFIER AND DETECTOR FOR INTERNAL-COMBUSTION ENGINES. CHARLES HENRY BEDINGFIELD, Maple, Ontario, Canada, assignor to Frederick Campbell Russell Ansley, St. Catharines, Ontario, Canada. Filed Oct. 28, 1920. Serial No. 420,211. 4 Claims. (Cl. 175—183.)



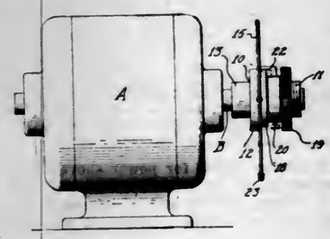
1. In a combined spark intensifier and detector for internal-combustion engines, the combination with the spark plug and the secondary cable, of spaced apart upper, intermediate and lower plates of insulating material, a fixed plate of conducting material situated between the lower and intermediate insulating plates, said conducting plate engaging the terminal of the spark plug, a movable conducting plate, means for adjusting the gap between the movable conducting plate and the fixed conducting plate, and means for connecting the movable conducting plate to the secondary cable.

1,451,809. DENTAL TOOL. GEORGE GRANT BELL, Ashland, Ky. Filed Nov. 6, 1920. Serial No. 422,856. 3 Claims. (Cl. 125—5.)



1. A tool of the character described comprising, a supporting wheel including a felly offset with respect to the hub of the wheel, an annular lip formed on the periphery of said felly, lugs fixed within the felly, a disc fitted within said lip and having slots formed therein, said slots having enlarged ends to permit the insertion of said lugs into said slots, and teeth formed on and extending laterally from said disc.

1,451,810. COLOR-MIXING DEVICE. LYDA SUE BOWER, Covington, Ga. Filed Oct. 29, 1921. Serial No. 511,516. 2 Claims. (Cl. 88—14.)



1. A color device of the character described comprising an elongated sleeve member adapted to be clamped upon the shaft of a motor or other driven device, said sleeve member being formed with an outwardly extending flange and being threaded from said flange to its outer end, a plurality of selectively usable disk members each having a central hole engageable upon the threaded portion of the sleeve and being provided with a cut-out portion extending from the outer edge to the hole, said disk members being colored with the colors of the solar spectrum, a nut member threaded upon said sleeve and engageable with the outermost disk member to hold all of the disk members in clamping engagement with one another against said flange for preventing relative rotation of the disk members, and a plurality of spring clips engageable upon the peripheries of said disk members for the purpose specified.

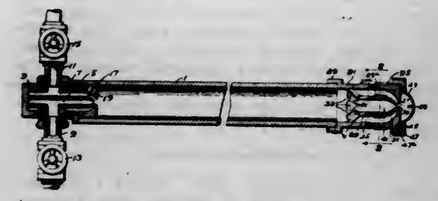
1,451,811. BURNER. FRANCIS H. BROWN, Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass., a Corporation of Delaware. Filed Apr. 16, 1920. Serial No. 374,396. 6 Claims. (Cl. 158—75.)

1. A burner, comprising, in combination, a gun, a charging device for introducing oil and atomising fluid to the gun, and having provision to cause the fluid to atomize the oil, and a device for producing a secondary atomization of the oil spaced a substantial distrance from the position of the first atomization and



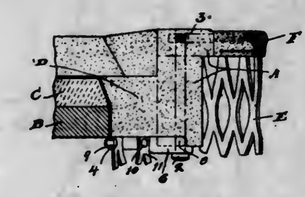
having a pair of passages contracted to present adjacent orifices, one for concentrating the stream delivered thereby against the stream delivered by the other.

1,451,812. BURNER. FRANCIS H. BROWN, Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass., a Corporation of Delaware. Filed Apr. 26, 1920. Serial No. 376,747. 4 Claims. (Cl. 158—75.)



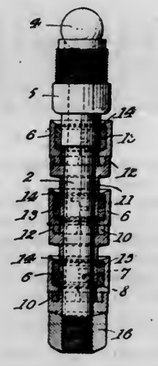
1. A burner comprising, in combination, a body having a delivery tip provided with an orifice, means for conducting the oil and atomizing fluid to the body and for atomizing the oil as it is delivered to the body, and a secondary atomizing means located within the body between the first atomizing means and said tip and comprising a pair of adjustable nozzles one within the other.

1,451,813. INSIDE POCKET IRON. HOWARD CHAPMAN BRUBACKER, Rodney, Ontario, Canada. Filed Mar. 24, 1922. Serial No. 546,399. 2 Claims. (Cl. 46—12.)



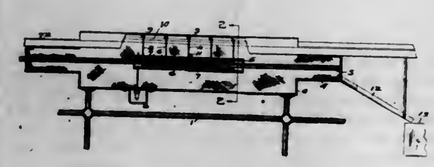
1. As a new article of manufacture, an inside pocket iron comprising a portion adapted to support the inside of a pocket and to be located below the underside of the frame of the table, and terminating at each end in an apertured horizontal plate adapted to be faced up against the underside of said table frame, and further terminating at each end in a shoulder each extending down to the upper surface of its associated plate and adapted to be faced up against the end of the rails of said frame at the usual openings therein.

1,451,814. PUMP PACKING. JOHN J. CULLINAN, Bradford, Pa. Filed Mar. 11, 1922. Serial No. 543,048. 25 Claims. (Cl. 103—225.)



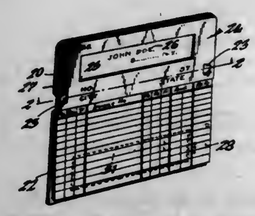
1. A packing for pump pistons comprising segments, means for retaining said segments about a piston, said segments being supported upon said retaining means intermediate the height of the segments.

1,451,815. RAPID DECORATING FIRING FURNACE OR KILN. RANSOM W. DAVENPORT, Detroit, Mich., assignor to Jeffery-Dewitt Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 27, 1920. Serial No. 433,328. 15 Claims. (Cl. 263—6.)



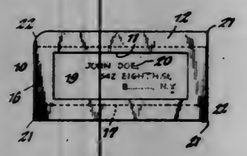
1. In a furnace for heat treating bodies, a tubular member for containing bodies, means for heating the central portion of the wall of the tubular member, a plunger for moving the bodies through the tubular member, and means for directing a chemical reagent through the tubular member.

1,451,816. STENCIL. GUY J. EVANS, Buffalo, N. Y. Filed Nov. 20, 1920. Serial No. 425,359. 7 Claims. (Cl. 101—127.)



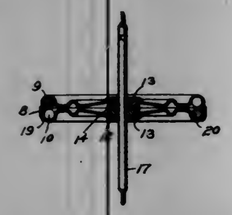
2. A stencil comprising a frame provided at opposite ends with locking lips, and a stencil sheet provided at its opposite ends with openings which receive said lips.

1,451,817. STENCIL. GUY J. EVANS, Buffalo, N. Y. Filed Nov. 20, 1920. Serial No. 425,360. 4 Claims. (Cl. 101—127.)



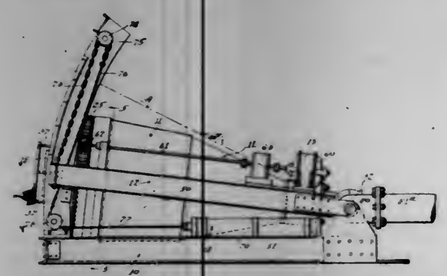
1. A stencil comprising a frame having a printing opening, a stencil sheet secured to one side of said frame and extending over the opening therein, and flanges arranged on the longitudinal edges of the frame and secured to that side of the stencil sheet opposite to that on which the latter is engaged by said frame, the space between the opposing flanges being unobstructed throughout the length of the same.

1,451,818. GYROSCOPIC TOP AND METHOD OF MAKING SAME. JOHN C. FORSTER, Pittsburgh, Pa. Filed July 15, 1922. Serial No. 575,186. 3 Claims. (Cl. 74—6.)



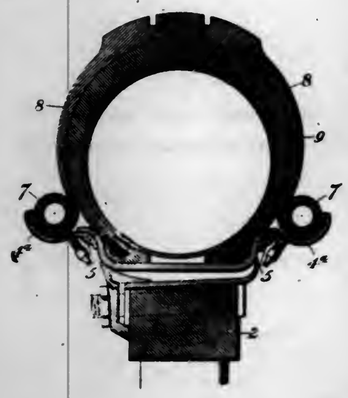
3. A rotor for gyroscopic tops comprising two complementary disks having their peripheral edges arranged in overlapping relation, a spindle passing through the center of said disks, a spacer surrounding said spindle between said disks and forming a backing against which the disks are forced, so as to cause the metal surrounding the spindle to rigidly grip the spindle.

1,451,819. CONCRETE-MIXING MACHINE. HAROLD K. FOX, Fresno, and GEORGE J. FISHER, Big Creek, Calif. Filed Mar. 27, 1922. Serial No. 547,115. 11 Claims. (Cl. 83—13.)



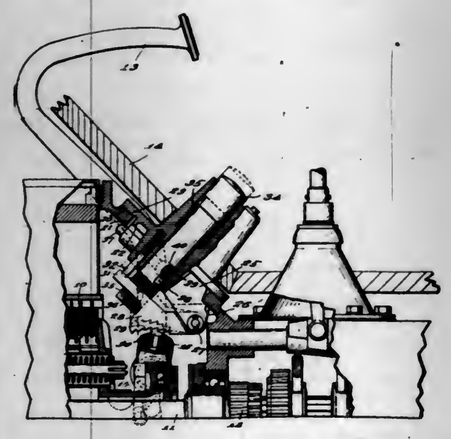
1. In a machine of the character described, a maxing mechanism adapted to be tilted to discharge material mixed by it, a stationary ejector adapted to handle material mixed by the mixing mechanism, and a flexible connection between the mixing mechanism and the ejector.

1,451,820. TIRE TREAD. HARRY M. FRY, Johnstown, Pa. Filed Mar. 6, 1922. Serial No. 541,501. 4 Claims. (Cl. 152—17.)



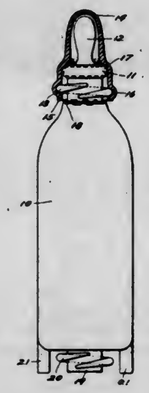
4. The combination with a tire carrying rim and a pneumatic tire carried thereby, of a protecting tread for the tire, said rim being provided at its edges with annular sections curved outwardly away from the tire carried thereby; annular outwardly curved detachable extensions secured to said outwardly turned annular sections of the rim; and independent pneumatic tubes for cooperating with said detachable extensions to hold the protecting tread on the tire.

1,451,821. AUTOMOBILE LOCK. HARRY J. GARCEAU, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Aug. 1, 1919. Serial No. 314,651. 17 Claims. (Cl. 70—128.)



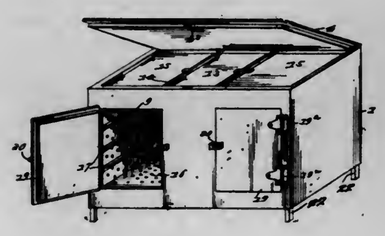
5. In combination with an automobile clutch, a pawl which when in one position co-operates with said clutch to hold it in released position, a plunger controlling said pawl and having two positions in which it respectively permits the pawl to move to locking position and withdraws it from locking position, and locking mechanism for holding said plunger in its first position.

1,451,822. NURSING BOTTLE. ROBERT J. HAGERTY, Philadelphia, Pa., assignor of one-half to Frank H. Hebron and one-half to Thomas C. Kelly, both of Philadelphia, Pa. Filed Apr. 27, 1921. Serial No. 464,830. 11 Claims. (Cl. 215—11.)



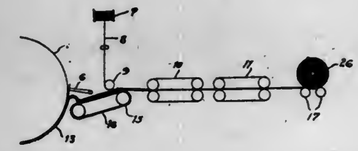
1. In an article of the character stated a bottle having a neck formed with an external screw-thread and with a bead, a nipple the lower end of which engages over said bead and a nipple closure of rigid material comprising an imperforate dome and a skirt formed with an internal screw-thread arranged to engage the screw-thread of said neck said closure being provided with an internal shoulder at the juncture of said dome and skirt for impinging upon that portion of the nipple expanded over said bead whereby the bottle contents may be hermetically sealed.

1,451,823. PORTABLE REFRIGERATOR. ISAAC M. HAMPTON, JOSEPH T. DECKER, and LOUIS J. DECKER, Hartford, Ill. Filed Apr. 18, 1922. Serial No. 555,432. 2 Claims. (Cl. 62—80.)



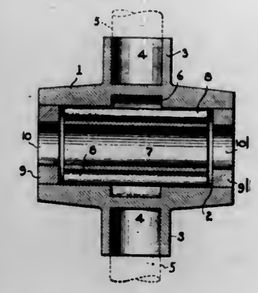
1. A portable refrigerator, comprising a casing provided with upper and lower compartments at each end and having a central compartment, an ice container arranged in the central compartment the full height of the casing, ice containers in the upper compartments, article containers in the lower compartments, corrugated supports forming the bottoms of the upper end compartments to spacedly support the upper ice containers above the article containers to allow the cold air to descend more readily from the ice containers upon said article containers, corrugated plates resting upon the bottom of the casing, one under each article container and one under the central ice container for spacing said containers above the bottom of the casing, the adjacent ends of the plates at the bottom of the casing having upstanding flanges to separate the ice and article containers to permit of circulation of cold air between them and to prevent displacement of said containers, the sides, bottoms and tops of the article containers being perforated, which together with the corrugations of the plates at the bottom permit of the circulation of cold air.

1,451,824. APPARATUS FOR MAKING ASBESTOS YARN. JOHN ALLEN HEANY, New Haven, Conn., assignor to Rockbestos Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 17, 1921. Serial No. 523,124. 5 Claims. (Cl. 19—145.)



1. In an apparatus for making reinforced yarn, a rub motion device for applying fibrous material to a reinforcing filament, a guide roller for directing the filament between the rubbing surfaces of the rub motion device, and means for receiving the fibrous material and bringing it into engagement with the reinforcing filament between the guide roller and the inlet portion of the rub motion device.

1,451,825. ROLLER BEARING. HENRY J. HEIDER, Carroll, Iowa. Filed Oct. 6, 1921. Serial No. 505,842. 1 Claim. (Cl. 64—39.)

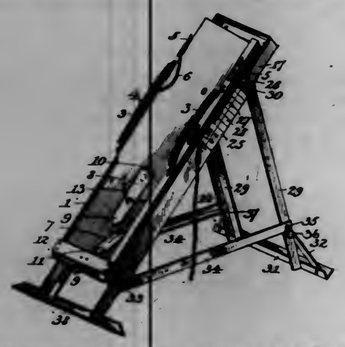


A roller bearing comprising a hub having a longitudinal bore forming a raceway, a bearing sleeve of smaller diameter than the bore of the hub, and shorter than the length thereof and loosely mounted within the same, a series of rollers substantially coextensive in length with the sleeve and surrounding the same and adapted to bear against the wall of the bore, and annular retaining washers frictionally held in the ends of the bore in spaced relation to the ends of the inner sleeve and the ends of the rollers to retain the latter within the hub when the hub is removed from its axle, each washer having a central bore of greater diameter than the bore of the sleeve, but less than the external diameter of said sleeve whereby displacement of the sleeve from the hub is prevented.

1,451,826. DEVICE FOR WEIGHING ANIMALS AND FOR INDICATING DOSAGE. WILLIAM N. HOBBS, Kensington, Kans. Filed Mar. 25, 1919. Serial No. 284,914. 27 Claims. (Cl. 119—103.)

1. In a device for the purpose described, an inclinable support for an animal to hold the animal in an inclined position, said support having upholding and weighing

means to maintain it free and yieldable to the weight of the animal to predetermined extents, and means associated



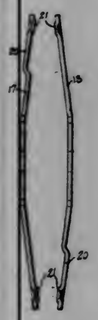
with the support and operable thereby to indicate on a scale the dosage for the animal being weighed corresponding to the weight of the animal.

1,451,827. RESILIENT WHEEL. OTA O. HOBSON, Vinton, Iowa. Filed Dec. 5, 1921. Serial No. 520,907. 1 Claim. (Cl. 152—28.)



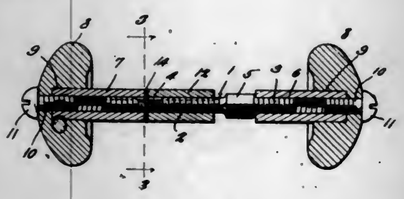
A resilient wheel, comprising a hub element, a felly element, a plurality of spokes therebetween, each spoke consisting of juxtaposed relatively lengthwise slidable laminæ connected rigidly at one end to one of said elements and connected loosely at the other end to the other end of said elements, and an anti-friction roller mounted rotatably and between each pair of adjacent spokes at their loose ends and contacting with both of them.

1,451,828. DOBBY LEVER. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1921. Serial No. 510,842. 3 Claims. (Cl. 139—79.)



1. A loom dobby lever comprising two strips of resilient sheet metal having end bearing portions for dobby hooks, said strips being secured together under spring tension at points relatively remote from said end bearing portions, said bearing portions being in firm contact under spring tension but yieldingly separable for the attachment of a dobby hook thereto.

1,451,829. SPINDLE. WILLIAM B. HUBBARD, Smithboro, Ill. Filed Dec. 1, 1921. Serial No. 519,184. 1 Claim. (Cl. 292—358.)



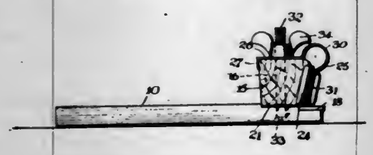
A knob spindle comprising a main member having an intermediate polygonal shoulder, and supplied with threaded ends; a sleeve threaded on one of said ends; a knob carrier threaded on said end; a washer interposed between the sleeve and the knob carrier; interengaging elements on the washer and on said end of the main member, coacting to hold the washer in place for sliding movement longitudinally of the main member but against rotation thereon; and a knob carrier threaded on the other end of the main member and engaged with the polygonal shoulder.

1,451,830. AERIAL TRAIN. WAYNE ELLIOT IKERMAN, Long Beach, Miss., assignor of forty one-hundredths to Bernhard Reinike and five one-hundredths to Frederick Ikerman, both of Long Beach, Miss. Filed July 8, 1920, Serial No. 394,635. Renewed Oct. 12, 1922. Serial No. 594,200. 7 Claims. (Cl. 244—14.)



1. An aeroplane train comprising a plurality of collinear coaches, means rigidly connecting the coaches together in spaced relation, propelling means for and arranged between certain of the coaches, and outwardly extending wings carried by the coaches and arranged in spaced relation to each other.

1,451,831. SHARPENING DEVICE. ROBERT URB IRWIN, Oshawa, Ontario, Canada. Filed Mar. 23, 1921. Serial No. 454,714. 2 Claims. (Cl. 76—88.)



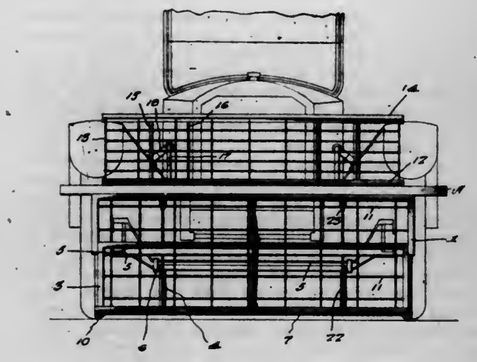
1. In a sharpening device of the character described, a bed plate, a compound clamp block and holder arranged on said bed plate and having an inclined face, an abrading element underlying said block and held thereby, a stationary guide including a base engaged by the block and having an inclined guide plate lying flush against the inclined face of the block, a tensioning device including a body portion supported upon the top of the block, an inclined tension plate and a bowed spring portion connecting said body portion and said tension plate, and releasable means for securing the block, guide and tensioning device in assembly.

1,451,832. MANIPULATING STICK FOR CLAMPS, SWITCHES, ETC., IN ELECTRIC DISTRIBUTING SYSTEMS. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed July 6, 1921. Serial No. 482,751. 4 Claims. (Cl. 81—3.)



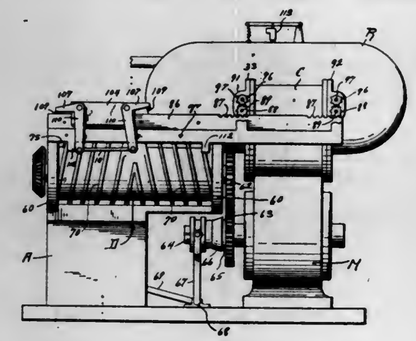
1. A manipulating means for handling electrical devices, comprising a stick, means at one end thereof for engaging such devices, such stick having a transverse bore at the other end, a rod having one end bent at an angle, said bent end being permanently and snugly held in the bore of said stick ad having a stiff pivotal connection therewith, whereby the rod is permitted only a turning movement on said bent end from a position at an angle to the stick to a position in parallelism therewith.

1,451,833. ACCIDENT-PROOF AUTOMOBILE FENDER. JOHN KAURICH, Milwaukee, Wis. Filed Aug. 25, 1922. Serial No. 584,362. 2 Claims. (Cl. 293—45.)



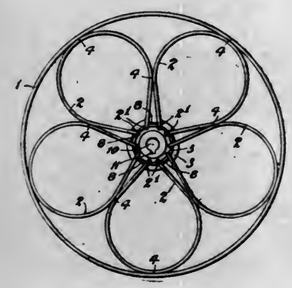
1. A fender for motor vehicles comprising a pick-up frame, a member to which said frame is hingedly connected, a frame hinged to said member, a bar connected with the axle and hinged to the last mentioned frame, a member connected with the bumper, a netting connected with the said member and with the member to which the pick-up frame is connected and means for adjusting the pick-up frame in relation to the road surface from a point adjacent the driver's seat.

1,451,834. AIR COMPRESSOR. WILLIAM J. KREIMER, St. Louis, Mo. Filed July 14, 1920. Serial No. 396,313. 2 Claims. (Cl. 230—27.)



1. A device of the character described including a compressor comprising a cylinder, a piston mounted therein for rectilinear movement, a rod engaged with the piston and extending exteriorly of the cylinder, a head carried by the extended portion of the rod and travelling in a substantially fixed path of travel, a lever pivotally supported substantially midway its length by the head, a cylindrical member rotatably supported adjacent the head, said member being provided in its periphery with spiral channels disposed in opposite directions from substantially the center thereof, the merging portions of said channels being raised to provide a lifting cam, one end portion of the lever being engaged within a spiral groove when the opposite end portion is positioned free, the cam coacting to reverse the position of the lever, and means for rotating the rotary member.

1,451,835. REEL. LAURENCE S. LACHMAN and EDWARD FULDA, New York, N. Y. Filed July 12, 1920. Serial No. 395,453. 15 Claims. (Cl. 242—70.)



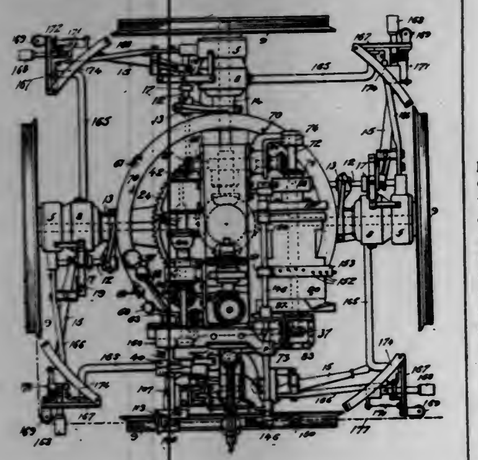
8. In a metal reel, two side members each comprising a peripheral wire ring, a hub plate and wire elements joining the peripheral ring and the hub plate and each having free ends welded to the hub plate, the wire elements being welded to each other and to the peripheral ring and the free ends of adjoining elements being spread apart at the place of union with the side plates, a sheet metal hub barrel intersecting said wire elements and locking tongues projecting through the space between said spread apart ends and turned over against the outer surface of the hub plates.

1,451,836. RACKET FOR TENNIS AND SIMILAR GAMES. WILLIAM A. LARNED, Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 2, 1921. Serial No. 489,255. 3 Claims. (Cl. 46—24.)



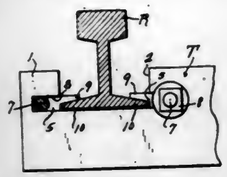
1. A racket of the type described, comprising a tubular metal frame provided in its outside periphery with holes which bevel inwardly and in its inside periphery with holes which bevel inwardly, and a stringing that is strung through said holes.

1,451,837. BEAD-MAKING MACHINE. ROBERT MCCLENATHEN, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Filed July 22, 1920. Serial No. 398,214. 13 Claims. (Cl. 154—9.)



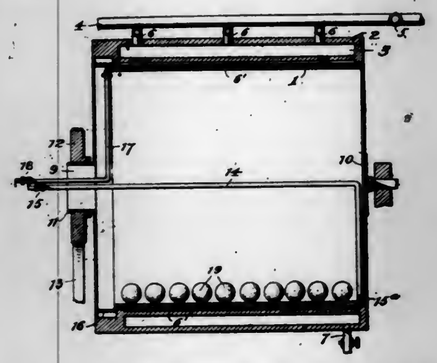
6. A machine of the character described, comprising: a multiple-spindle turret mounting having centrally disposed driving gear; horizontal drum spindles radiating from the mounting; stock-forming drums on the spindles; spindle driving means from a common source; means for simultaneously or selectively rotating the stock-forming drums; means for orbitally rotating the drum spindles and drums intermittently within predetermined radial limits; and means in synchronized relation with the orbital rotating means and the spindle rotating means whereby either may be in motion irrespective of the other, under automatic control.

1,451,838. RAIL FASTENER. CUGE L. MCCRAY, Norton, Va. Filed Aug. 17, 1922. Serial No. 582,493. 7 Claims. (Cl. 238—332.)



5. The combination with a channel tie provided with recesses to receive a rail, members received within the recesses engaging the opposite sides of the rail to hold the same in applied position, and means common to said members for moving the same into clamping action with the rails.

1,451,839. EVAPORATING APPARATUS. HOWARD S. MELLOTT, Morenci, Mich., assignor to By-Products Recovery Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 19, 1917. Serial No. 192,207. 11 Claims. (Cl. 127—9.)

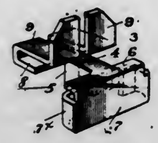


1. In an apparatus for evaporating milk and similar products, the combination of a substantially cylindrical container, means for introducing the material to be treated into contact with the peripheral surface of the container adjacent one end, means for permitting continuous discharge of the material from the peripheral surface adjacent the opposite end of the container, means for applying to the wall of the container a high degree of heat whereby to rapidly evaporate liquid constituents of the material, means for rapidly rotating the container at sufficient speed to cause the material to move circumferentially in continuous layer formation from its introduction at one end to its discharge at the opposite end of the container, the said container having a relatively large opening for the free and continuous discharge of the rapidly accumulating vapors from the central space formed by said layer formation, and independent means movable unrestrainedly for engaging the treating surface of the container and freeing the same from adhering particles without interrupting the movement of the material.

1,451,840. ARCH SUPPORT FOR MINES. RUDOLF NOVOTNY, Portage, Pa. Filed Jan. 30, 1922. Serial No. 532,930. 1 Claim. (Cl. 189—35.)

As a new article of manufacture, a rigid coupling for use in mine arch supports, formed of one piece of material and comprising a body bar, longitudinal flanges spaced apart and extending downwardly from said body bar at right angles thereto, an end flange reaching in opposite

directions from one end of the body bar, a flange depending from the said end flange throughout the length thereof and provided with end loops, and a T-head carried at



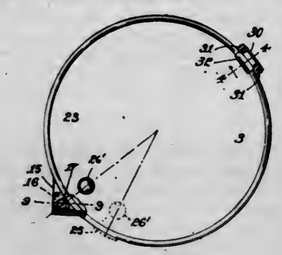
the opposite end of the body bar and having spaced arms reaching upwardly and longitudinally inward from the outer edge of the T-head and then upwardly.

1,451,841. FASHIONING INDICES AND METHOD OF KNITTING THE SAME. WILLIAM S. PARKER and JOSEPH JEFFERSON, Rockford, Ill., assignors to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed June 17, 1921. Serial No. 478,342. 2 Claims. (Cl. 66—4.)



1. A seamless stocking fashioned by widening, having fashioning indices at each side of the line of widening, each fashioning index being located a uniform distance from said line of widening and composed of a structural variation in a plurality of successive courses in a given wale separated by a plurality of intermediate wales of plain, regular knitting.

1,451,842. MAGAZINE FOR FILM MACHINES. REINHART W. PITTMAN, New York, N. Y. Filed Mar. 8, 1921. Serial No. 450,703. 3 Claims. (Cl. 242—71.)



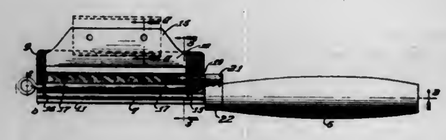
3. A cylindrical film magazine having a slotted extension on its periphery, a cover with an annular channel arranged to engage the magazine rim to rotate thereon, a lug on the cover, said magazine having a shouldered portion arranged to receive said lug on the cover when turned, and a lever clamp on the opposite side of the magazine arranged to engage the cover channel portion to clamp the cover thereon.

1,451,843. MANUFACTURE OF RESINOUS CONDENSATION PRODUCTS. HERMANN PLAUSON, Hamburg, Germany. Filed Feb. 12, 1921. Serial No. 444,499. 9 Claims. (Cl. 260—5.)

6. Process for the preparation of synthetic resins consisting in condensing a phenol and formaldehyde with a polymerized vinyl compound in presence of an accelerator consisting of an organic oxide.

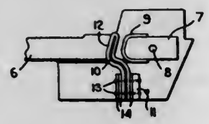
9. A synthetic resin being a condensation product of phenol, formaldehyde and a vinyl compound.

1,451,844. RAZOR STROPPER. JOHN H. PAYSON, Rockford, Ill. Filed Mar. 7, 1922. Serial No. 541,761. 3 Claims. (Cl. 51—153.)



1. A razor blade stropper comprising a frame having two strop engaging sides in angular relation, a handle pivotally attached to said frame at the juncture of said sides, a blade holder pivotally mounted on said frame intermediate said sides and eccentric with respect to said frame pivot, and a pivotal connection directly between said blade holder and the handle at a greater radial distance from the frame pivot than said blade-holder pivot.

1,451,845. CUSHION STOP FOR PICKER STICKS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 22, 1922. Serial No. 562,605. 6 Claims. (Cl. 139—22.)

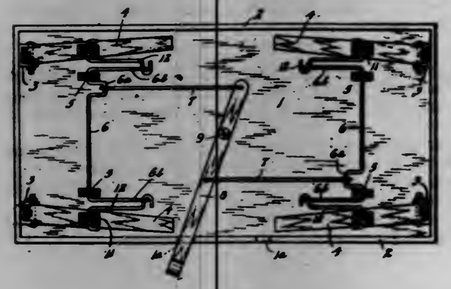


1. In a loom having a lay, a bobbin chute depending from the lay, a picker stick and picker, the combination of a stop secured to the inner end of the bobbin chute, a resilient buffer secured at one end to the chute with its free end standing normally in front of and spaced from the stop, the said buffer acting to cushion the picker stick at the conclusion of the picking movement and in co-operation with the stop acting to limit the picking movement of the picker stick.

1,451,846. COLLAPSIBLE SUPPORTING DEVICE. CHARLES O. ROBINSON, Bismarck, N. Dak. Filed Mar. 8, 1922. Serial No. 541,985. 4 Claims. (Cl. 45—11.)

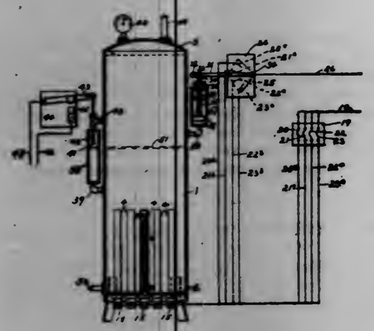
1. A supporting device having in combination a supporting member, a plurality of legs swingingly mounted thereon and attached beneath said member adjacent each end thereof, separate oscillating means mounted adjacent

corresponding pairs of said legs and in bearings on said supporting member and connected thereto adapted to



swing said legs to and from operative position, and means mounted between said means and connected thereto for actuating the same.

1,451,847. ELECTRICALLY HEATED AND CONTROLLED STEAM BOILER. WILLIAM H. ROWE, Jacksonville, Fla. Filed Feb. 10, 1922. Serial No. 535,442. 1 Claim. (Cl. 219—38.

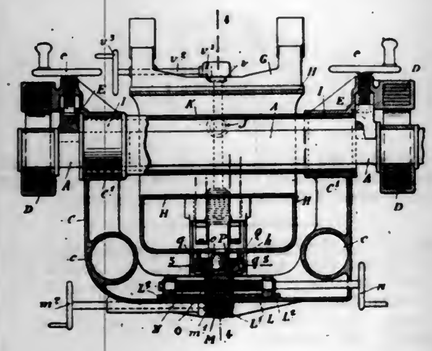


In an electrically heated boiler; a plurality of electric heating elements inserted in tubes, secured to the underside of the boiler and projecting into it; a cylinder communicating by means of a pipe with the steam space in the boiler; a piston and a piston rod free to move in said cylinder; a lever connecting said piston rod with an electric controller; and the heating elements connected by wires to said controller.

1,451,848. WHEELED GUN CARRIAGE HAVING DIVERGIBLE TRAIL. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed June 9, 1921. Serial No. 476,302. 13 Claims. (Cl. 89—40.)

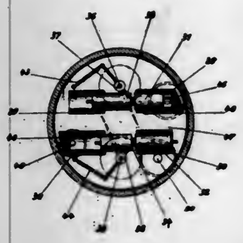
1. In a wheeled gun mounting provided with an axle, a carriage mounted on said axle and movable relative thereto, a gun mount pivotally supported by said carriage, a gun pedestal supported by said gun mount, gun elevating means carried by said gun mount means to turn said mount in a plane at right angles to said axle, together with means for turning the mount in a plane parallel to said axle.

13. A wheeled gun mounting comprising an axle, a carriage mounted on said axle, an elastic suspension between said axle and the carriage, means to render said suspension inoperative, a hollow member through which said axle passes, a gun mount movably supported by said hollow



member, means for rotating said mount transversely of said carriage, and means for rotating said mount longitudinally of said carriage.

1,451,849. DEVICE FOR INDICATING THE OIL CIRCULATION AND OIL PRESSURE. WALTER SCHWERDTFEGER, Unterturkheim, Germany, assignor to Daimler-Motoren-Gesellschaft, Unterturkheim, Germany. Filed Sept. 10, 1921. Serial No. 499,853. 8 Claims. (Cl. 184—6.)



5. A device for indicating the oil circulation and oil pressure in the lubricating conduits of machines and engines, comprising, in combination, two pistons; cylinders containing said pistons; a casing containing said cylinders; a connection between the oil supply and one of the cylinders; a connection between the same cylinder and the space within the casing; a connection between this space and the other cylinder; a connection between said casing space and the lubricating conduit; a dial; two hands adapted to cooperate with said dial; spindles to which the said hands are affixed, protective disks attached to said spindles means for transmitting the motions of the said pistons to the said spindles; and springs so arranged as to be adapted to displace the pistons proportionately to any decrease in the force exerted by the oil, substantially as and for the purpose set forth.

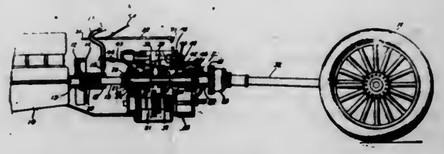
1,451,850. MERCURIAL COMPOSITION. HUGH MCCURDY SPENCER, Newark, N. J., assignor, by mesne assignments, to Seydel Chemical Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,644. 5 Claims. (Cl. 167—7.)

2. A mercurial composition for intravenous injection comprising mercury which is present entirely in the pure metallic state and a substantially soluble carbohydrate medium capable of holding the mercury in a dispersed

condition and capable on addition of water of forming a liquid assimilable by and isotonic normal blood.

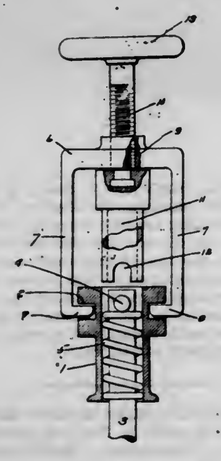
4. A mercurial composition comprising pure metallic mercury dispersed in gum acacia which composition when mixed with water in such proportion as to give a mixture containing more than about 5 mg. of dispersed mercury to each 100 c. c. of water yields a liquid isotonic with normal blood.

1,451,851. MOTOR-VEHICLE TRANSMISSION MECHANISM. JOHN A. STUMPENHORST, Wilkinsburg, Pa., assignor to Duplex Transmission Company, a Corporation of Delaware. Filed May 31, 1922. Serial No. 564,702. 10 Claims. (Cl. 74—58.)



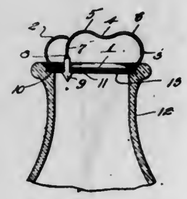
1. In a transmission mechanism, in combination, a driving member, a power transmitting and gear-wheel-supporting member comprising a short shaft having its outer end rotatably supported in said driving member, a driven portion in axial alinement with said short shaft and a jaw-clutch member intermediate said power transmitting member, an exteriorly splined hollow shaft rotatably mounted on said short shaft, change-speed gear wheels on said splined hollow shaft operatively and selectively associated with said driving member, a jaw-clutch member located on said splined hollow shaft and manually operable means for causing said last named jaw-clutch member to engage or be disengaged from said first named jaw-clutch member.

1,451,852. CLUTCH-SPRING REMOVER. NEAL VERDOORN, Sheldon, Iowa, assignor of one-half to Joseph Zylstra, Sheldon, Iowa. Filed Nov. 11, 1920. Serial No. 423,446. 4 Claims. (Cl. 29—87.1.)



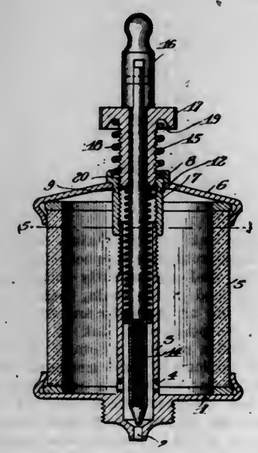
3. In a device of the class described, the combination of a substantially U-shaped frame provided with inwardly-extending outer ends, a bolt threaded upon said frame and having its inner end extending between portions thereof, and a swivel open at its outer end and mounted upon the inner end of the bolt between portions of the frame.

1,451,853. BOTTLE-DISK EXTRACTOR. REGINALD E. WIKE, Springfield, Ohio. Filed June 7, 1922. Serial No. 566,649. 2 Claims. (Cl. 65—47.)



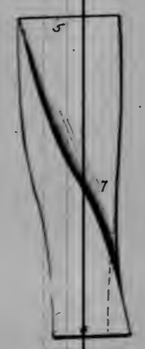
1. A disk stopper extractor comprising a pair of resiliently connected upper and lower bars, a shank slidable through the lower bar and having a spur carried thereby, a thumb engaging rest carried by the lower bar for moving said bar vertically to disengage a disk stopper from the spur.

1,451,854. LUBRICATOR CUP. CHARLES F. WRAY, Rochester, N. Y., assignor to The National Brass Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 14, 1921. Serial No. 461,205. 6 Claims. (Cl. 184—82.)



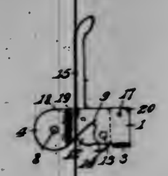
3. In a lubricator cup, the combination with a central tubular support and surrounding side wall, of a cover seated on said side wall and provided with a non-circular opening, a supporting collar engaging said opening and having a non-circular exterior cross section corresponding with said opening to prevent relative turning of the cover and collar, a shoulder on the collar overlying the outer face of the cover, the collar having an annular recess adjacent to the inner face of the cover, yieldable means carried by the cover and engaging said recess to prevent separation of the collar, and cover, the collar having attachment with said tubular support, and valve mechanism carried by the collar.

1,451,855. WEDGE. EDWARD WRIGHT, Hamilton, Ontario, Canada, assignor of one-half to Alexander MacMillan, Hamilton, Ontario, Canada. Filed Dec. 19, 1921. Serial No. 523,592. 1 Claim. (Cl. 254—104.)



A wedge of the character described having at one end a rectangular and elongated head and at its other end a cutting edge which lies substantially at right angles to the said head and a connecting body portion of spiral formation, having its side faces concaved.

1,451,856. CONNECTOR LINK FOR TIRE CHAINS. IRVIN G. YODER and JAMES C. FILBY, Washington, Pa. Filed Mar. 9, 1922. Serial No. 542,428. 3 Claims. (Cl. 24—69.)



1. A connector link for tire chains, comprising a pair of similarly shaped connector members disposed in spaced parallel relation and permanently connected at their rear ends to one end of the chain, each of said connector members having an upwardly and forwardly directed recess for the reception of a link of the opposite end of said chain, and a retainer pivotally mounted between the front end portions of said members, said retainer having a hook on its rear end for underlying the portion of the chain link which is received in said recesses and having a forwardly directed lever arm whereby it may be swung on its pivotal mounting for positioning said hook, the pivotal mounting for said retainer being located intermediate said hook and said lever arm.

1,451,857. SOLUTION OF DI-CHLORAMINE-T. FERDINAND H. YOUNG, Chicago, Ill., assignor to The Abbott Laboratories, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1919. Serial No. 348,666. 2 Claims. (Cl. 167—3.)

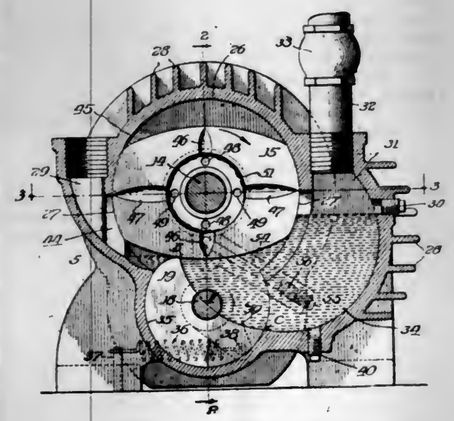
2. The improvement in the art of preparing an ultimate solution of dichloramine-T in chlorcosane, which consists in first dissolving the dichloramine-T in monochlor-benzene, and subsequently, when required for use, diluting a portion of the concentrated liquor with the required amount of chlorcosane.

1,451,858. CRADLE OR CREEPER FOR AUTOMOBILE WORK. WALTER C. ZENGERLE, Cleveland, Ohio, assignor to Franzengerle Company, Cleveland, Ohio, a Partnership composed of Walter C. Zengerle and Oscar Franzen. Filed Feb. 17, 1922. Serial No. 537,181. 6 Claims. (Cl. 280—61.5.)



1. A cradle having a head rest supported at one end thereof and means connected with said head rest for preventing motion of the cradle, said means being brought into operation by downward pressure of the head upon said head rest.

1,451,859. ROTARY COMPRESSOR. MARTEN BALCKER, Chicago, Ill., assignor to John Nelson, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,416. 9 Claims. (Cl. 230—30.)

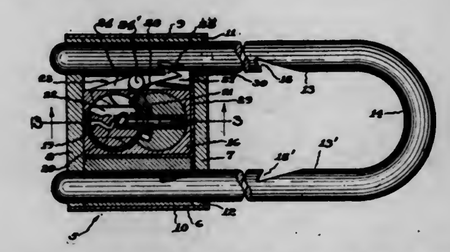


1. A compressor, comprising a casing provided with inlet and delivery passages, an elliptical rotor in said casing, a pivoted sealing member engaging the lower portion of said rotor, an oil seal in which said sealing member and the lower portion of said rotor are submerged, and means for maintaining an oil seal between said casing and the end walls of said rotor, said sealing device having a portion exposed to the pressure of said oil seal whereby close contact is maintained between said sealing device and the periphery of said rotor.

1,451,860. PADLOCK. FRANK ELLISON BEST, Seattle, Wash., assignor to Frank E. Best, Inc., Seattle, Wash., a Corporation of Washington. Filed Feb. 14, 1922. Serial No. 536,427. 1 Claim. (Cl. 70—108.)

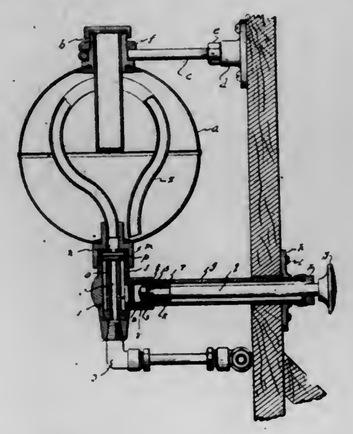
In a padlock, the combination of the body, a shackle having parallel legs adapted to extend through holes provided therefor in said body, a core insertible in said body between the shackle legs, a tumbler engageable with either

of said shackle legs selectively, a core provided within the body, key actuated locking mechanism provided in said core



for regulating said tumbler with respect to the shackle, and means for detachably securing the core within the housing.

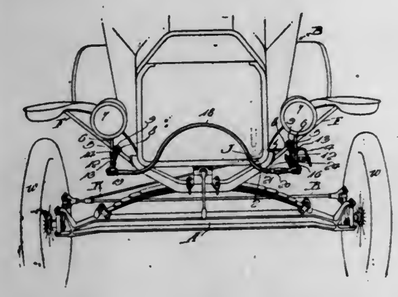
1,451,861. FORCE PUMP. EDGAR J. BLOOM, Tiffin, Ohio. Filed Feb. 1, 1922. Serial No. 533,476. 11 Claims. (Cl. 184—24.)



8. A pump, having in combination, a cylinder, a plunger reciprocating in the cylinder, a T-like fixture secured to the end of the cylinder and provided with a vertical tube therein having an opening above the cylinder connection with the T which opening forms the outlet opening, said vertical tube also being spaced from the walls of the bore of the T fixture to form a well, said fixture being provided with an opening above the opening in the tube to form an intake opening, and a disk-like valve operating between the two openings but serving to close the outlet opening and allow passage of fluid by the valve into the well and plunger chamber and serving on the pressure stroke of the plunger to close the intake opening and open the outlet opening, a reservoir located above the intake opening, and means for preventing leakage of fluid from the reservoir to the ultimate points of distribution except when the pump is in operation.

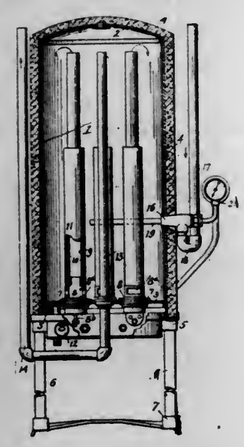
1,451,862. VEHICLE HEADLIGHT. KARL BYE and PHILIP WERLE, Butte, Mont. Filed Nov. 3, 1921. Serial No. 512,545. 1 Claim. (Cl. 240—62.)

A device of the class described comprising a substantially U-shaped bracket embodying a rearward extension adapted to be rigidly connected to a relatively stationary part of an automobile, the arms of this bracket being equipped at their free ends with bearing openings adapted to rotatably receive the standard of a headlight, a substantially L-shaped lever disposed beneath and having its long arm contacting said bracket, said long arm having one end extending beyond the corresponding end of the lever and being equipped intermediate its ends with an opening receiving the flat-faced portion of the standard of the headlight for imparting rotation to said standard



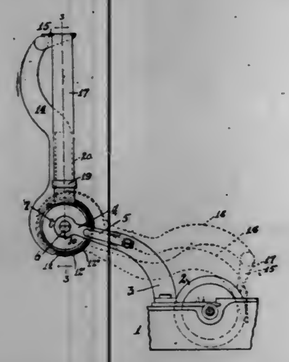
when the lever is operated, the depending short arm of said lever carrying a cylindrical rearward extension, an operating rod adapted to be connected at one end with a part of the automobile steering gear, the opposite end of said rod being bent laterally forward and disposed in spaced parallelism with said cylindrical extension, and a longitudinally extensible connection slidable on said extension and said laterally directed end of the rod.

1,451,863. LIQUID HEATER. WARREN F. CLARK, Warren, Pa., asignor to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Apr. 2, 1921. Serial No. 458,061. 2 Claims. (Cl. 219—38.)



1. In a liquid heating device a closed container, means for heating liquid within the container, means for conducting liquid from the container, means for supplying liquid into the container, a temperature responsive device having a portion which is mounted adjacent the means for feeding liquid into the container and directly affected by the cold liquid introduced into the container, and means whereby the temperature responsive device controls the functioning of the heating device.

1,451,864. MANIFOLDING ATTACHMENT FOR TYPEWRITERS. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed June 20, 1922. Serial No. 569,612. 10 Claims. (Cl. 197—126.)



1. A manifolding attachment for typewriters comprising a chambered, rotatable member mounted on the platen carriage of the machine, parallel with the platen; an arm carried at each end of said chambered member; and a manifolding member housed within said chambered member and adapted to be drawn out therefrom for association, in successive lengths, with said arms.

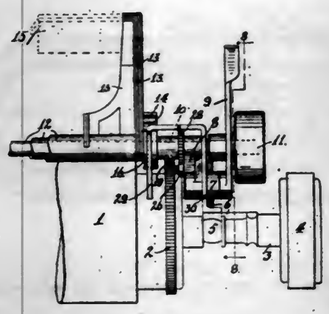
1,451,865. MANIFOLDING ATTACHMENT FOR TYPEWRITERS. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed June 21, 1922. Serial No. 569,801. 5 Claims. (Cl. 197—126.)



1. A manifold attachment for typewriters comprising a rotative member mounted on the platen carriage of the machine parallel with the platen; an arm carried by said member at one end; a member fitted upon the other end of said rotative member; an arm carried by said fitted member; and a manifolding member carried by said fitted meber and adapted to be drawn therefrom in successive lengths for engagement by and between said opposing arms.

1,451,866. MANIFOLDING ATTACHMENT FOR TYPEWRITERS. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed June 28, 1922. Serial No. 571,462. 4 Claims. (Cl. 197—126.)

1. A manifolding attachment for typewriters comprising a plurality of independently rotatable nested members mounted on the platen carriage of the machine parallel with the platen; an arm carried at each end of each of said members; a manifolding member carried by and between each pair of arms; a rotatable shaft lying in the axis of movement of said nested members; a spring carried by and spirally coiled about said shaft in a plane at



an angle to its axis, said spring having a pick-up lug on the free extremity; and studs on the arms lying in the path of rotation of the pick-up lug.

1,451,867. VEHICLE WHEEL. CONRAD DAHL, Chicago, Ill., assignor to Donald M. Carter, trustee, Chicago, Ill. Filed Aug. 3, 1921. Serial No. 489,432. 3 Claims. (Cl. 301—64.)

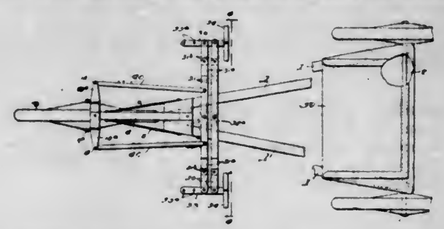


2. A vehicle wheel comprising two web members which are dished metal stampings centrally apertured and having each an interior hollow boss about said central aperture, said stampings being secured together at their peripheries with their said dished sides and hollow bosses facing each other, whereby their central areas are spaced apart along the axis; exterior ball race members fixed in said hollow bosses respectively; and an axle member having rigidly mounted upon it interior ball race members, counterpart to and facing the exterior ball race members mounted in said bosses; said interior ball race members being spaced apart along the axis relatively to the spacing apart of said hollow bosses for accommodating between them and the exterior race members the balls seated in said races without binding pressure or lost motion.

1,451,868. OCCUPANT-STEERED VEHICLE. CONRAD DAHL, Chicago, Ill., assignor to Donald M. Carter, trustee, Chicago, Ill. Filed Nov. 25, 1921. Serial No. 517,443. 7 Claims. (Cl. 208—114.)

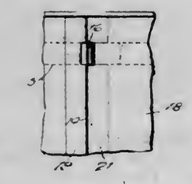
1. An occupant-steered vehicle, comprising in combination with rear drive-and-carrying wheels and a front steering wheel, a frame structure consisting of a main frame having the journal bearings for the driving and

steering wheel, and a steering frame for the steering wheel, the main frame having a steering head through which the steering frame is pivoted for steering movement, a foot-operated steering lever pivoted on the main frame behind the steering wheel, the steering frame being



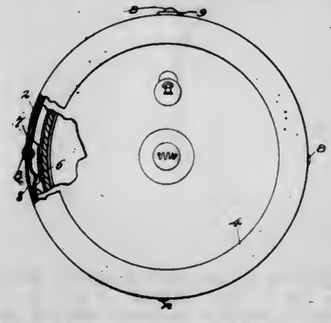
extended laterally at the top to form outwardly-projecting steering arms, and links connecting the opposite ends of the foot-operated levers respectively, with the opposite ends of the steering head arms, the pivot of the foot lever and all the pivots of the links being parallel to the pivot bearing of the steering frame in the steering head.

1,451,869. KEY-OPENING CAN. DANIEL B. DE LAND, Fairport, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1921. Serial No. 526,300. 6 Claims. (Cl. 220—54.)



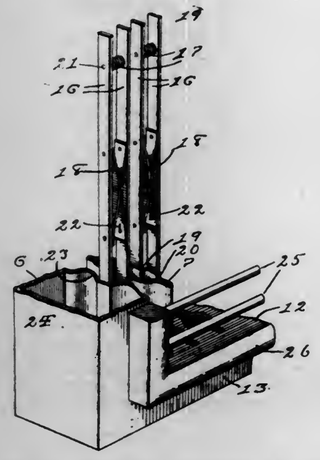
1. A container, comprising a body provided with a soldered side seam, a tearing strip extending about said body and having a tongue extending from said seam, and a lithographed area on the container body beneath said tongue at a point where the same is subjected to the soldering action upon said side seam.

1,451,870. LOCK FOR LAMP DOORS. EDWARD W. DRIEMEYER, Cincinnati, Ohio, assignor to The K-D Lamp Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 25, 1920. Serial No. 368,688. 1 Claim. (Cl. 292—308.)



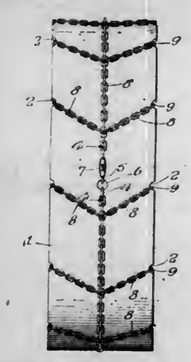
A lock for lamp closures comprising the combination with a body having a flange provided with slots angularly disposed with reference to the front edge of said flange, grooves between the front edge of said flange and the ends of the slots nearest said edge, and a closure having a flange arranged to fit around the outer circumference of the body flange, of lock pins in the closure flange, the inner ends of said pins being arranged to pass through said grooves into slots and to draw said closure against the front edge of said body flange upon rotation of the former upon the latter, external heads on said lock pins, and a spring clip on the body of said lamp, said clip having a perforation arranged to engage one of said heads when the closure is rotated so that the pins are in the extreme ends of the slots away from said grooves, to secure the closure against rotation.

1,451,871. AUTOMOBILE RADIATOR. LEWIS D. FOWLER, Oklahoma, Okla. Filed Dec. 16, 1921. Serial No. 522,765. 6 Claims. (Cl. 257—125.)



1. In a radiator, a plurality of tubular sections elongated transversely each with a longitudinal groove in each of its side walls, bearing strips disposed in said grooves, and springs between said strips.

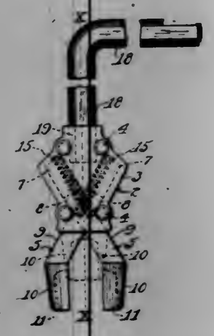
1,451,872. TRACTOR-WHEEL CHAIN. JAMES C. FRENCH, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Mar. 18, 1918. Serial No. 223,006. 1 Claim. (Cl. 301—42.)



The combination of a traction wheel having a flat tread, with notches in the side edges of said tread, and

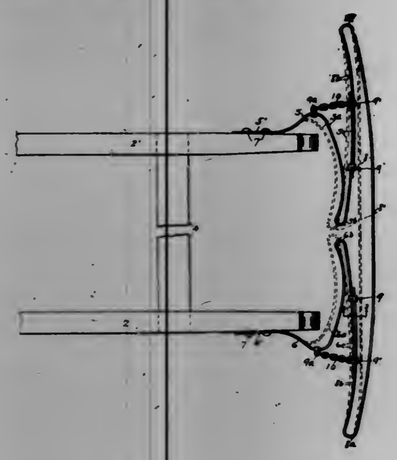
an opening in the tread between the side edges thereof, a circumferential chain section extending around the tread, in position to protrude from the tread and enter the ground hooks on the opposite ends of said chain section to engage said opening, means to tighten the chain section circumferentially of the wheel, laterally extending chain sections secured at intervals to the circumferential chain section, and hooks on the ends of said laterally extending chain sections to engage said notches.

1,451,873. ADJUSTABLE SOCKET WRENCH. ISRAEL C. GELLMAN, Chicago, Ill. Filed Feb. 4, 1922. Serial No. 534,014. 15 Claims. (Cl. 81—112.)



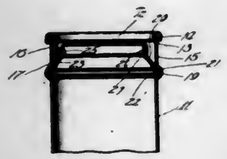
1. In a wrench of the class described, a head member intersecting having grooves therein and independent separably movable jaw members mounted on the head member and independently movable in the grooves.

1,451,874. AUTOMOBILE BUFFER. HIRAM S. GUTSELL, Ithaca, N. Y. Filed June 15, 1922. Serial No. 568,555. 4 Claims. (Cl. 293—55.)



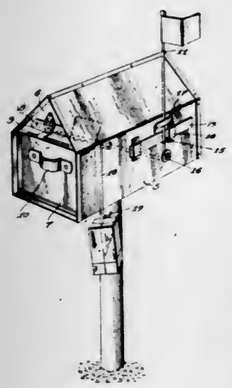
4. In a buffer for vehicles, the combination with the spaced chassis members of the vehicle running gear, of a folded buffer member rigidly supported by each of said chassis members, said buffer members being bent inwardly towards the longitudinal center of the vehicle and then bent outwardly for forming similar arms, a main buffer member disposed across the front of the vehicle, said member being folded upon itself and its inner portion overlapping and engaging the arms of the other buffer members, and a plurality of clamps for rigidly connecting the corresponding arms of the said springs.

1,451,875. VACUUM HINGE-COVER CONTAINER. John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 7, 1922. Serial No. 550,307. 8 Claims. (Cl. 220—53.)



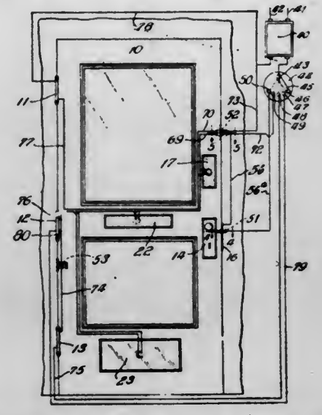
1. A container for tobacco and the like, comprising an hermetically sealed box provided with a tearing strip near one end thereof, and an internal secondary top part engaging said box beneath said tearing strip and provided with a hinge cover.

1,451,876. RURAL MAIL BOX. JOHN R. JEWETT, Jr., Wood River, Nebr. Filed June 13, 1921. Serial No. 476,971. 6 Claims. (Cl. 232—35.)



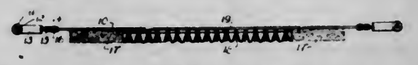
1. A rural mail box comprising a casing, a door hinged thereto, a flag to signal deposits of mail in the box pivoted to the casing, a connection between the door and flag to lower the flag when the door is opened, including a rod pivoted to the door, and a slide connected with the rod and adapted to engage the flag.

1,451,877. ADVERTISING DEVICE. JOHN E. KOEHLER and RAYMOND PAUL, Chicago, Ill. Filed Feb. 6, 1922. Serial No. 534,440. 15 Claims. (Cl. 40—52.)



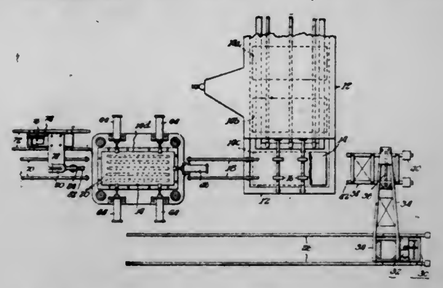
1. The combination of a door, a latch for said door, a sign on said door, and means controlled by said latch for illuminating said sign intermittently.

1,451,878. BATH DEVICE. GEORGE J. KOLLAR, Whiting, Ind. Filed Oct. 19, 1921. Serial No. 508,706. 1 Claim. (Cl. 15—222.)



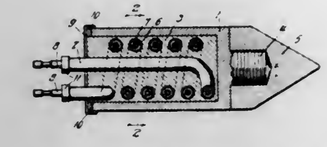
In a bath device, a flexible backing, a bristle brush secured to one side of said backing and sponges secured to the same side of said backing at opposite ends of said bristle brush whereby said sponges and brush are adapted to alternately act upon the same surface when the device is moved back and forth.

1,451,879. MECHANISM FOR STAMPING LARGE HOT METAL SHEETS. WILLIAM A. LACKE, Chicago, Ill. Filed May 23, 1921. Serial No. 471,708. 11 Claims. (Cl. 214—1.)



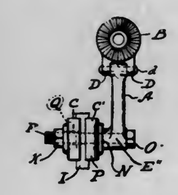
1. In mechanism of the class described, in combination with a track along which a sheet is to be moved, another track parallel to the first track, a car adapted to travel along the second track, a truss carried by the car extending over across the first track, means supported by the truss adapted to engage a sheet on the first track whereby movement of the car on the second track propels the sheet on the first track, and a pivotal mounting for the sheet engaging means, permitting it to tilt in a vertical plane to follow vertical movement of a sheet being moved.

1,451,880. ELECTRIC HEATING APPLIANCE. EDWIN N. LIGHTFOOT, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1921. Serial No. 448,501. 15 Claims. (Cl. 219—64.)



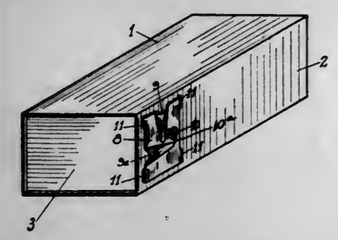
1. An electric heating appliance having, in combination, a non-corrodible, rust-resisting casing, a high heat-conducting metal core within the casing, and an electric heater embedded in the core and provided with a tubular metal jacket enclosing an insulated resistor.

1,451,881. ADJUSTABLE SUPPORTING BRACKET. JOSEPH B. MCMULLEN, Catonsville, Md. Filed May 14, 1921. Serial No. 469,737. 3 Claims. (Cl. 296—95.)



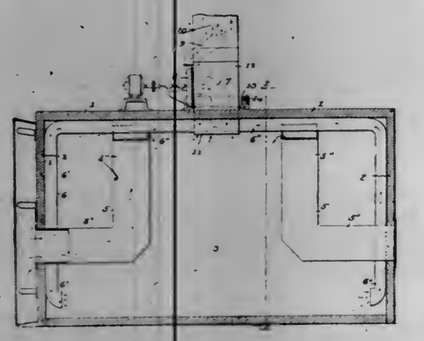
1. A bracket comprising an arm, a member pivotally attached thereto at one end, a bolt cooperating with its other end, and clamps coacting with said bolt to clamp said arm to a fixed support and simultaneously lock said arms to said clamps in any desired position.

1,451,882. MATCH BOX. DAVID B. MCDONALD, Davenport, Iowa. Filed Dec. 4, 1920, Serial No. 428,262. Renewed May 24, 1922. Serial No. 563,388. 5 Claims. (Cl. 206—20.)



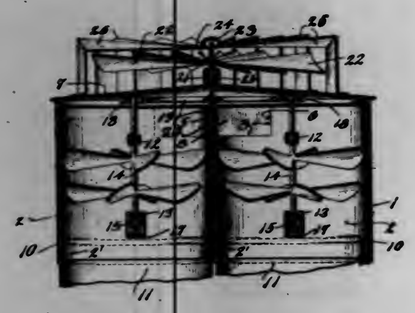
1. In combination with a match box having a match-box case, the match-box case having a hole in one of its sides; the hole having a downwardly pointed off-set; a match-box case having a match breaking device outwardly secured by suitable means to one of its sides; said match breaking device having a hole provided with a downwardly pointed off-set in its surface stationed adjacent one of its sides conformable to the hole in the box case, multiple corrugate means in the side and end of said match breaking device, clamp lug means for securing said match breaking device to the box case; perforations suitably conformable to the clamp lugs of said match breaking device, provided in the side of said box case, all for the purposes specified.

1,451,883. MEANS FOR VENTILATING DRYING OVENS. ARTHUR MAEHLER, Chicago, Ill. Filed July 19, 1922. Serial No. 576,056. 5 Claims. (Cl. 34—19.)



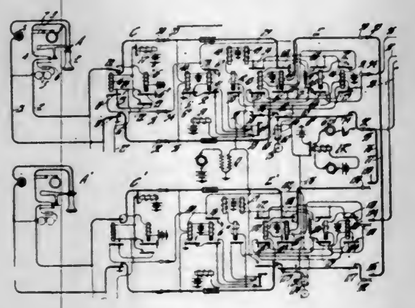
1. In an oven of the type described, the combination of a closed oven casing, heating means arranged in said casing, an inlet duct for introducing air into the upper portion of the interior of said casing, an outlet duct adapted to take air from the lower portion of the interior of said casing, an exhaust fan having its intake connected with said outlet duct, a hollow stack closed at its lower end, a pipe arranged within the lower end of said stack and connected with the outlet of the fan, a duct connected to said stack at one end and at the other end to the upper portion of the interior of the casing, and a damper arranged in said duct.

1,451,884. VENTILATOR. THORBY I. MOEN, Beloit, Wis. Filed Apr. 17, 1922. Serial No. 553,943. 6 Claims. (Cl. 98—9.)



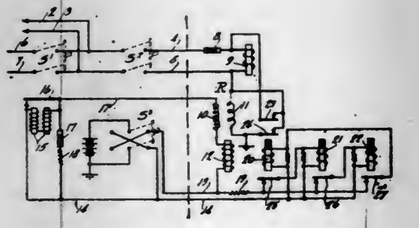
1. A ventilator comprising a housing closed at its upper end having side openings adjacent its upper end, inner casings in the housing terminating short of the upper and lower ends of the housing, the lower portions of the casings being reduced to provide abutment shoulders, a partition extending transversely through the housing above the casings and dividing the upper portion of the housing into end compartments, each having a side opening, conduit pipes extending into the housing and fitting upon the reduced lower ends of the casings, rotary fans in the casings having shafts extending up through the end compartments, and wind operated driving means for imparting rotary movement to the fan shafts.

1,451,885. PRIVATE-BRANCH-EXCHANGE SYSTEM. MARTIN L. NELSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1917, Serial No. 179,327. Renewed Nov. 17, 1921. Serial No. 515,972. 37 Claims. (Cl. 179—18.)



1. In a telephone system, a pair of connected terminals common to the exchange, means whereby a calling subscriber can obtain a connection with the first of said terminals, other terminals multiplied to said first terminals, and means for making said terminals busy when said calling subscriber obtains connection with said first terminal, signaling means associated with said first terminals for signaling a called subscriber, and means whereby the called subscriber can obtain a connection with the second of said terminals while said other terminals are busy, whereby the said calling and called subscribers may be telephonically connected.

1,451,886. SIGNALING APPARATUS FOR TELEPHONE SYSTEMS. MARTIN L. NELSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1921. Serial No. 477,266. 3 Claims. (Cl. 179—51.)



1. In a signaling system, a common signaling conductor, a transformer having a secondary winding in series with said conductor, a local circuit including a buzzer and a primary winding of said transformer, a series of relays and circuit connections for energizing said relays alternately, and contacts on one of said relays for short circuiting said secondary winding.

1,451,887. HOT-AIR CONDUIT. JOSEPH NOVAK, Cleveland, Ohio, assignor to The Henry Furnace and Foundry Company, Cleveland, Ohio. Filed Aug. 10, 1920. Serial No. 402,584. 5 Claims. (Cl. 137—75.)

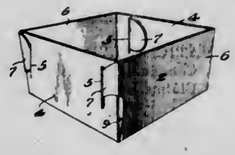
1. In a coupling for conduit sections, a conduit section having its under and overlapping marginal edges

provided with struck out tongue and recess members, respectively, to receive and interlock with similar mem-



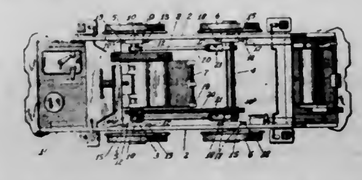
bers of adjacent conduit sections, said recess members being provided with inner tongue guides.

1,451,888. PAPER OR CARDBOARD BERRY BASKET. JOHN S. PARKER, Earlville, N. Y. Filed June 6, 1921. Serial No. 475,348. 1 Claim. (Cl. 229—35.)



A berry basket composed of a bottom, slotted ends, sides with tongues engaging said slotted ends and cut away portions in said sides and adjacent to said tongues, said cut away portions being cut so as to form curved openings which slope towards each other for the greater portion of their distance and then separate and turn towards the tongues so that ample ventilating openings are provided.

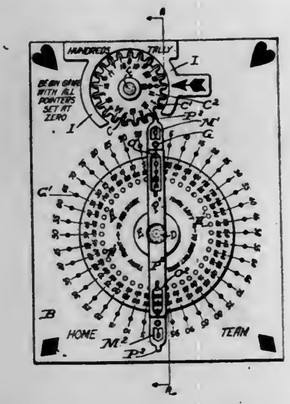
1,451,889. LOCOMOTIVE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1922. Serial No. 578,576. 7 Claims. (Cl. 105—102.)



2. In a locomotive, a frame, a pair of axles operatively connected by a chain, a spacing device adapted to maintain said axles at a substantially uniform distance from each other, spring suspension means interposed between said axles and said frame, driving means connected with one of said axles, and guide means for one of said axles permitting vertical movement thereof respective to said frame, the other of sai daxles being free to move in a limited arc with said first named axle as a center.

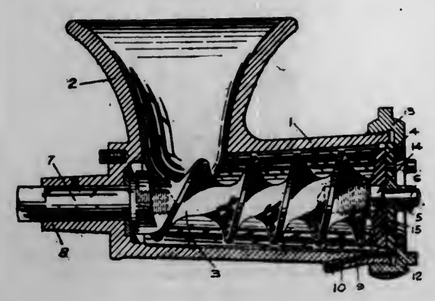
1,451,890. CALCULATING DEVICE. MARSHALL ANGLE PUASSL, West Haven, Conn. Filed Nov. 10, 1921. Serial No. 514,200. 6 Claims. (Cl. 235—74.)

1. In a calculating device of the class described, the combination of a base, a resilient pointer pivoted thereon and provided with a carrying tooth, the outer end of said pointer having frictional contact with said base, and said base bearing a graduated series of numerals concentric with the pivot of the pointer, and which run from zero through progressive multiples of a factor one graduation from the zero, and a rotatable, toothed, totalizing-wheel mounted on said base in position to permit the tooth of said pointer to engage its teeth, said wheel bearing a graduated series of numerals set opposite its teeth and which run, in the same direction as the numerals on the



base, from 1 up through progressive multiples thereof, said base having a stationary indicator for said totalizing wheel.

1,451,891. MEAT CHOPPER AND METHOD OF MAKING SAME. THOMAS F. RATAICZAK, Troy, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio. Filed Feb. 20, 1922. Serial No. 537,777. 4 Claims. (Cl. 29—148.)

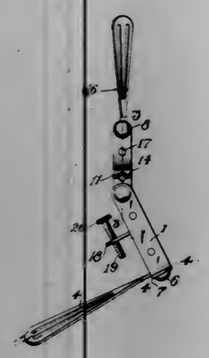


1. In a meat chopper, a stud for the feeding and cutting devices, comprising a hard and tough metal portion for the journal bearing and knife mounting parts, and a comparatively soft metal portion for securing the stud to the feeding device.

1,451,892. ARTICULATOR. GEORGE W. REIMCHE, Moorhead, Minn. Filed Feb. 11, 1922. Serial No. 535,836. 3 Claims. (Cl. 32—1.)

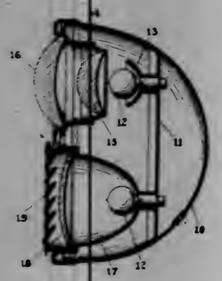
1. In a device of the class described, the combination of a standard, an arm having its rear end pivotally connected with the upper end portion of said standard, for vertical swinging movement, said arm being in a vertical plane and provided intermediate its length with a bent portion and an opening in said bent portion, said arm being provided at its outer end with a socket, a clamp plate provided at its inner end with an angularly-disposed extension extending through the opening of the arm, said clamp plate being provided at its outer end with a socket registering with the socket on the arm, an upper plate provided at its inner end with a ball, for fitting between the sockets,

and mounting the plate for universal movement, a set screw extending through the clamp plate and the arm and



clamping the sockets upon the ball, means carried by the standard for controlling downward swinging movement of the arm, and a lower plate secured to the standard.

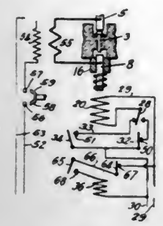
1,451,893. HEADLIGHT. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Dec. 17, 1921, Serial No. 523,034. Renewed Feb. 28, 1923. 2 Claims. (Cl. 240—41.)



1. A headlight composed of a two unit combination, the first unit having a light source, a gathering lens mounted in spaced relationship to the light source, and a second lens for projecting the light, received from the first lens, into the roadway, at a predetermined distance from the vehicle, mounted in spaced relation to the first lens, the second unit having a light source, surrounded by a reflector, and shutters mounted in relation thereto, to receive the light rays from the source and the reflector, and deflect them downwardly in close proximity to the vehicle, to light the roadway directly in front, and to sides of the vehicle, the light from the two units fusing to form, in combination, means which provides a continuously and smoothly lighted field in advance of the vehicle, substantially as shown and described.

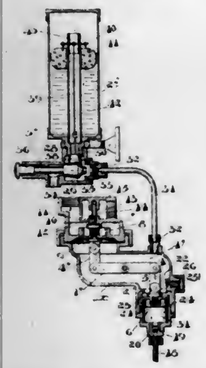
1,451,894. ELECTRIC RIVETING MACHINE AND PROCESS. ALBERT B. KYPINSKI, Laurelton, N. Y., assignor to Thomas E. Murray, Long Island, N. Y. Filed Jan. 26, 1921. Serial No. 439,920. 19 Claims. (Cl. 219—2.)

1. An electric riveting apparatus including in combination means for supporting the parts to be riveted in assembled position from below with the rivet extending below said parts and with one electrode engaging the upper end of the rivet and holding the same down and making a direct electric connection therewith, and with the other



electrode out of engagement with the rivet and adapted to be moved up against it to complete the circuit through it and to upset it.

1,451,895. AUTOMATIC VALVE. JAMES SANDILANDS, Toronto, Ontario, Canada. Filed Aug. 9, 1921. Serial No. 491,031. 12 Claims. (Cl. 137—153.)

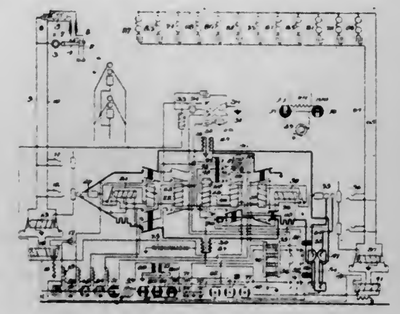


1. In an automatic valve, the combination of a main chamber; an inlet chamber communicating by means of an opening with the main chamber; a member movable in the inlet chamber adapted to close said opening; a second movable member exposed to the pressure of fluid within the main chamber; means connecting the movable members whereby their movements are necessarily simultaneous and in opposite directions; a by-pass having a restricted opening into the main chamber and two ports into the inlet chamber, the first adjacent the opening between the chambers and the second remote therefrom, the first movable member being adapted to close the first port substantially simultaneously with the opening between the two chambers and to close the second port when moved to uncover the first port; means for venting the pressure in the main chamber; and a valve controllable by the movement of the second movable member.

1,451,896. TELEPHONY. HUBERT S. TURNER, San Diego, Calif. Filed Feb. 27, 1915. Serial No. 11,046. 28 Claims. (Cl. 179—58.)

1. A telephone exchange system, including telephone lines extending from sub-stations to an exchange having a line relay and a visual line signal at said exchange for each of said lines, a source of variable current, a resistance, an operating circuit for each such line signal including said resistance, said circuit including means controlled by the line relay individual thereto, to impress thereon variable current from said source, and a circuit including said resistance and a winding of the corresponding

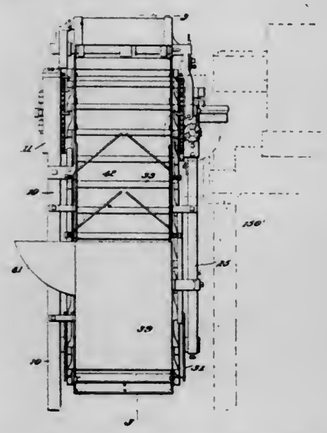
line relay whereby a variable current due to said resistance will traverse said line relay to actuate the same and at the same time sound an audible signal in the telephone receiver at the calling sub-station provided, however, that said line signal has first been energized.



3. A telephone exchange system, including telephone lines extending from sub-stations to an exchange having link connectors for connecting said sub-stations and comprising normally open talking and operating strand circuits individual to the respective link connectors, two relays for each of said link connectors operated respectively when said link connector is connected to a calling and a called line, automatic means comprising said relays to close said strand circuits when establishing a connection between said sub-stations, said strand circuits being opened during an established connection by means comprising said relays and under the control of apparatus at connected sub-stations.

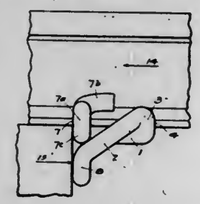
20. A telephone exchange system, including telephone lines extending from substations to an exchange, link connectors to connect said sub-stations, biased calling signal apparatus at said sub-stations connected through condensers to the two limbs of said lines, in combination with means for producing an alternating current having succeeding alternations of different strength to operate said apparatus.

1,451,897. FEEDING MACHINE. ANDREW F. STERNAD, Chicago, Ill. Filed Oct. 25, 1921. Serial No. 510,281. 40 Claims. (Cl. 130—33.)



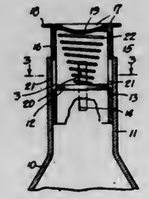
1. The combination with a machine for cutting green corn from the ear, of means for automatically feeding the ears of corn to the cutting machine, said means comprising a hopper adapted to contain the ears of corn in bulk, a traveling conveyor adapted to remove automatically and singly ears from the hopper, and means to prevent the conveyor from permanently removing from the hopper more than a single ear at a time, whereby the ears are arranged on the conveyor singly in succession and are delivered to the cutting machine in this order.

1,451,898. ANTICREEPER FOR RAILWAY RAILS. WILLIAM S. WESTON, Dallas, Tex. Filed July 3, 1922. Serial No. 572,476. 5 Claims. (Cl. 238—330.)



1. A V-shaped anti-creeper for railway rails, comprising a transverse member having shoulder seats adapted to grip the opposite rail base edges with a lever grip, and a longitudinal member having at its free end a tie-abutting portion terminating in a flange embracing jaw seat; said jaw seat being adapted to be rocked on one base edge transversely to the rail base flange in the process of installing the device and to hold the said shoulder seats in operative position after installation.

1,451,899. DISPENSING RECEPTACLE. JAMES J. COOGAN, New York, N. Y. Filed Sept. 24, 1921. Serial No. 502,908. 3 Claims. (Cl. 215—74.)

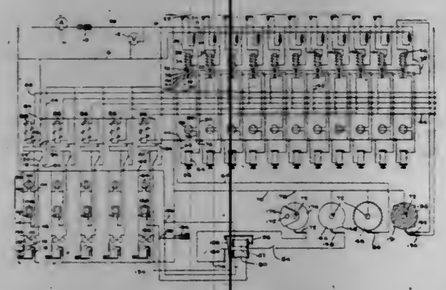


1. In a dispensing receptacle, the combination of a neck having a smooth straight interior surface, an abutment fixed within the neck and extending across the same, the main portion of the abutment being spaced from the neck but held in fixed position by tongues, and a cap having a straight barrel slidable within the neck in the space between the neck and the main portion of the abutment and having a closed outer end, said barrel being provided with openings through which said tongues project, and the neck and barrel being provided with openings adapted to register in one position of the cap for the delivery of the material.

1,451,900. ELECTRICAL SIGNALING AND RECORDING SYSTEM. JOHN M. DIEGEL, Minneapolis, Minn. Filed Dec. 6, 1920. Serial No. 428,700. 6 Claims. (Cl. 234—37.5.)

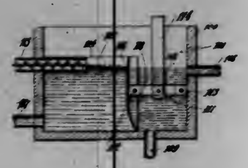
1. An electrical signalling and recording system comprising a source of electricity, a circuit controller in the circuit of said source, and operable by a watchman, a shaft adapted to be rotated by clock-work mechanism, an hour-wheel secured to said shaft, a fractional wheel secured to said shaft, means associated with said clock-

work mechanism for feeding a record tape, means associated with said hour-wheel and with said fractional wheel, whereby a record will be made on said tape when



a watchman is delinquent in operating said controller, and means which automatically prevents operation of said last-mentioned means when the watchman is not delinquent.

1,451,901. APPARATUS FOR TRANSFERRING HEAT. CROSBY FIELD, Yonkers, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y. Filed July 30, 1918, Serial No. 247,465. Renewed May 2, 1922. Serial No. 558,040. 15 Claims. (Cl. 62—172.)



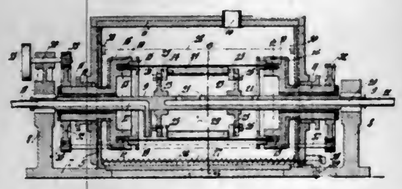
1. In a heat transference apparatus, heat transfer means adapted by its capacity of heat transference to convert a fluid into solid form, and constituting a collector of the solidified material, said means being constructed whereby its normal conformation may be temporarily altered to effect the dislodgment or separation of the solid material from the heat transfer means.

1,451,902. METHOD OF SEPARATING A BRITTLE PRODUCT FROM A BASE. CROSBY FIELD, New York, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,464. 2 Claims. (Cl. 62—172.)



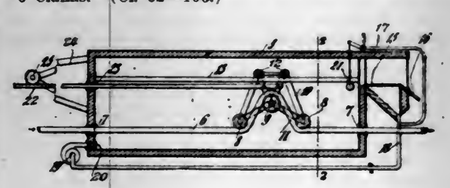
1. The herein described method which consists in producing a continuous layer of a brittle product upon an imperforate, nonmetallic normally stationary flexible base and then applying a positive pressure to said base to flex the same and separate the brittle product therefrom in the form of flakes.

1,451,903. HEAT-TRANSFERRING APPARATUS. CROSBY FIELD, Yonkers, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y., a Corporation of New York. Filed May 16, 1921, Serial No. 469,797. Renewed Dec. 20, 1922. 6 Claims. (Cl. 62—105.)



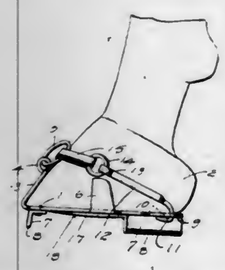
1. In a heat transference apparatus, a tank adapted to contain a fluid, a cylinder rotatably mounted in said tank in contact with the fluid therein, means for circulating a heat transfer medium through said cylinder to thereby convert the fluid in contact with the cylinder wall into solid form, said cylinder wall consituting a collector of the solid deposit, and means within the cylinder for imparting an undulating movement to the wall thereof to break up the solid deposit on the outer surface of said wall and thereby facilitate its easy removal.

1,451,904. HEAT-TRANSFERRING APPARATUS. CROSBY FIELD, Yonkers, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y., a Corporation of New York. Filed May 16, 1921. Serial No. 469,798. 6 Claims. (Cl. 62—106.)



1. In a heat transferring apparatus, a hollow nonrotatable heat transferring member adapted to contain a heat transferring medium, means for contacting the material to be treated with said member, and means for progressively flexing said member throughout its length to thereby effect a separation of the solidified material from the surfaces of said member.

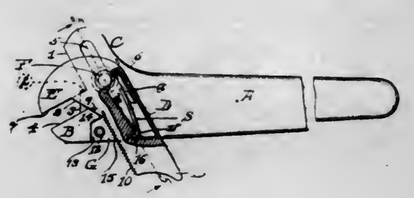
1,451,905. HORSESHOE. HERMAN A. FREY, Champaign, Ill. Filed Jan. 5, 1921, Serial No. 435,177. Renewed July 13, 1922. Serial No. 574,782. 7 Claims. (Cl. 168—22.)



3. A horseshoe including a tread member having a front lip, side members inclining towards the lip and

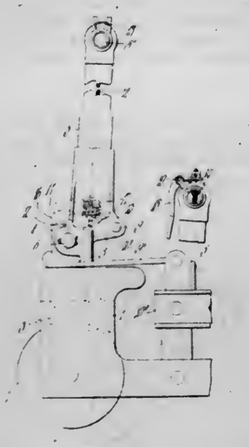
adjustably secured to the sides of said tread member adjacent the latter's rear edge, and an attaching means slidably secured to the forward ends of said side members and to the lip.

1,451,906. WRENCH. ISRAEL C. GELLMAN, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 490,036. 7 Claims. (Cl. 81—138.)



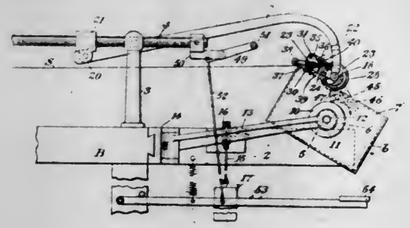
1. An adjustable wrench comprising a shank provided at one end with a fixed jaw member and a relatively thin slotted lug, the longitudinal axis of the slot and the forward marginal face of the lug being at right angles to the gripping face of said fixed jaw member, a jaw member movably secured to the slotted lug and provided with a relatively thin movable member integral therewith, complemental engaging surfaces on the fixed jaw and on the edge of the movable member, means for bringing said surfaces into interlocking engagement, and means for securing the two thin members together while permitting relative movement between them.

1,451,907. HOLDING LATCH FOR TRUCK STEERING HANDLES. RICHARD T. GIFFORD, Springfield, Mass., assignor to Edward N. White, J. Lewis Wyckoff, and James M. Eaton, trustees, all of Holyoke, Mass. Filed Sept. 19, 1921. Serial No. 501,626. 7 Claims. (Cl. 280—46.)



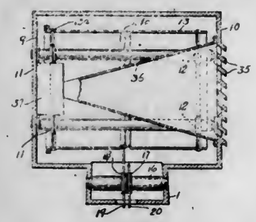
1. In a truck in combination, a front wheel swiveled support, a steering handle pivoted to said support for up-and-down movement, a stop for limiting in one direction the movement of said handle beyond its vertical position, a latch and coacting member one located on said handle and one located on said swivelled support for holding said handle against movement beyond its vertical position in the other direction.

1,451,908. BOX-COVERING MACHINE. FRANK E. HATCH, Rutherford, N. J. Filed July 16, 1920. Serial No. 396,823. 23 Claims. (Cl. 93—54.)



1. In a box covering machine, the combination with means for wrapping a gummed paper strip around the sides of a box, of mechanism for turning over one of the side edges of said strip and attaching it to the bottom edges of the box which mechanism includes means effective to form a flat beveled or mitered fold in said strip edge at each corner of the box bottom.

1,451,909. AUTOMOBILE SIGNAL DEVICE. CHARLES HERMANN, Brooklyn, N. Y. Filed Dec. 22, 1921. Serial No. 524,199. 5 Claims. (Cl. 116—43.)

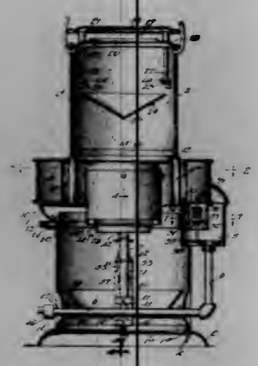


1. An automobile signalling and indicating device, which comprises a casing to be mounted on the body of the automobile and having an exhibiting opening, a hollow rotatable signal character drum mounted within the casing, an audible signal disposed in the casing within the signal drum, and a horn connected thereto, said casing having an aperture in one face thereof to which one end of said horn is connected.

1,451,910. PORTABLE OIL HEATER. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Nov. 4, 1918. Serial No. 260,966. 1 Claim. (Cl. 126—96.)

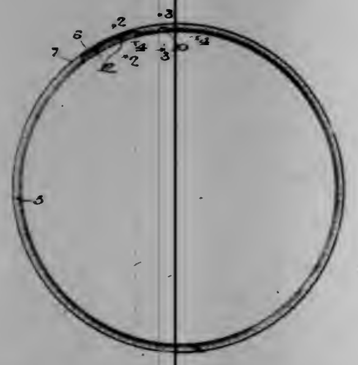
A portable oil heater having a base, a drum movably mounted upon the base, an oil reservoir carried by the base, an oil well at one side of the base having a pipe depending therefrom and extending into the base, a burner having an annular burner bowl mounted in the base and having a connection with the pipe in the lower portion of the base permitting of relative up and down movement between the burner and the well, means providing com-

munication between the reservoir and said well whereby to maintain a constant oil level in the well, and means



operable from a point exteriorly of the base for effecting relative up and down movement between the burner bowl and said oil level.

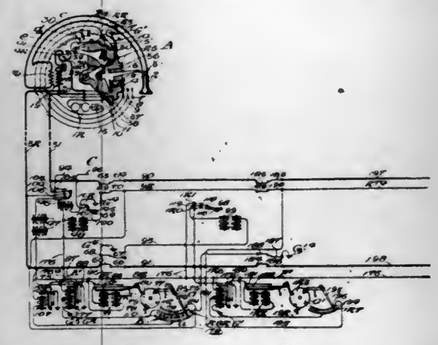
1,451,911. BICYCLE RIM. NELS JOHNSON, Racine, Wis. Continuation of application Serial No. 515,618, filed Nov. 16, 1921. This application filed Oct. 30, 1922. Serial No. 598,001. 1 Claim. (Cl. 152—20.)



An aluminum rim for bicycle tires, the inner side of which is substantially V-shaped in cross-section and the outer side curved in cross-section to form a tire-receiving groove, the deepest portion of the section being in a plane passing through the apex of the V, said rim having a centrically disposed valve opening and a reinforcing boss projecting from the diverging inner sides of the rim section, the rim having spoke openings arranged in staggered relation in the thicker part of the rim section.

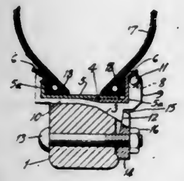
1,451,912. TELEPHONE TRUNKING SYSTEM. ALEXANDER E. KEITH, Hinsdale, Ill., assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 21, 1907, Serial No. 374,864. Renewed May 20, 1918. Serial No. 235,694. 147 Claims. (Cl. 179—18.)

12. A telephone exchange system comprising subscribers' lines divided into a plurality of groups, a plurality of first-selectors less in number than the subscribers' lines, and suitable means for extending connection from the



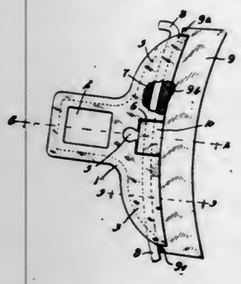
first-selectors to the called subscribers' lines, each of said first-selectors being common to all of the subscribers' lines in all of said groups.

1,451,913. VEHICLE WHEEL. EVERT KOKKO, Duluth, Minn. Filed Mar. 12, 1921. Serial No. 451,763. 3 Claims. (Cl. 301—11.)



1. In a vehicle wheel, a felly having one bevelled edge, a rim, rim yokes pivotally carried by said rim and adapted for disposal upon the said felly, said rim yokes being adapted to snugly span the rim, heels integral with said rim yokes for engagement with the bevelled portions of said felly, and adjustable means carried by said felly for engaging said heels and binding them securely to the felly.

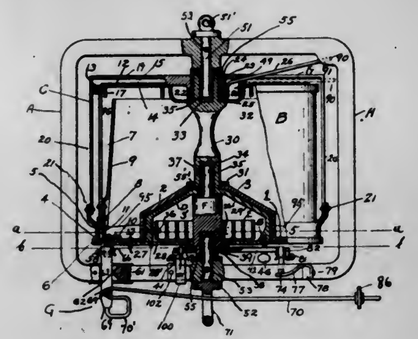
1,451,914. BRAKE HEAD AND SHOE FOR RAILWAY CARS. OLE KONGSRUD, Minneapolis, Minn. Filed Jan. 13, 1922. Serial No. 528,972. 7 Claims. (Cl. 18—242.)



5. A device of the class described comprising, a brake head having a recess extending transversely thereinto from its shoe contacting surface, said surface extending at each side of said recesses and longitudinally through-

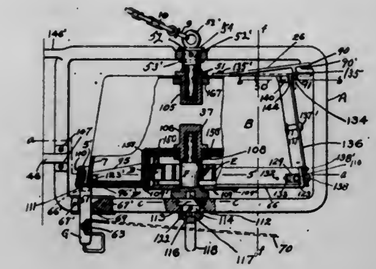
out the length of said head, a shoe having a tongue projecting into recess and contacting said head throughout said surface, and a key passing through said head and tongue for connecting said head and shoe.

1,451,915. AUTOMATIC FIRE EXTINGUISHER. CLARENCE LADD-DAVIS, Brooklyn, N. Y., assignor to himself and James A. Taylor, joint trustees, Brooklyn, N. Y. Refiling of application Serial No. 756,687, filed Mar. 25, 1913. This application filed July 28, 1919. Serial No. 313,926. 42 Claims. (Cl. 169—29.)



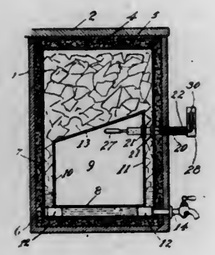
1. In a device of the class described, a receptacle adapted to contain a fire-extinguishing fluent fluidal material; and mechanical power-means for simultaneously giving a plurality of material expelling motions to the receptacle.

1,451,916. AUTOMATIC FIRE EXTINGUISHER FOR DISTRIBUTING AQUEOUS-LIKE FLUENT MATERIAL. CLARENCE LADD-DAVIS, Brooklyn, N. Y., assignor to himself and James A. Taylor, joint trustees, Brooklyn, N. Y. Refiling of application Serial No. 756,688, filed Mar. 25, 1913. This application filed July 28, 1919. Serial No. 313,927. 35 Claims. (Cl. 169—29.)



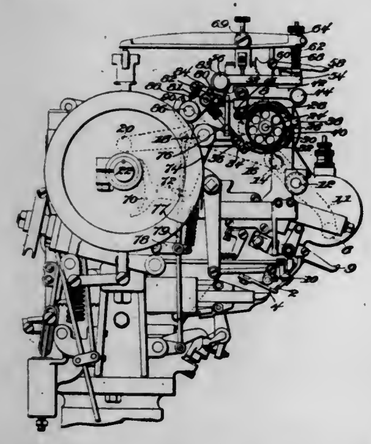
1. In a device of the class described a receptacle adapted to contain a fire-extinguishing liquid aqueous-like fluent material provided with an outlet formed in and extending thru the peripheral wall thereof thru which the liquid may be expelled; and mechanical positive power means for simultaneously giving a plurality of liquid expelling motions to the receptacle.

1,451,917. REFRIGERATOR. EMANUEL M. MEYER, Cincinnati, Ohio, assignor to Langdon-Meyer Laboratories, Cincinnati, Ohio, a Partnership composed of Fletcher Langdon and Emanuel M. Meyer. Filed Dec. 8, 1922. Serial No. 605,714. 7 Claims. (Cl. 62—68.)



1. A refrigerator adapted to operate on ice as the sole refrigerant, comprising a box and a compartment within said box and spaced away therefrom, and means in connection with said compartment and box to set up a thermo-siphon action of melted ice.

1,451,918. TENSION DEVICE. WILLIAM C. MEYER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,502. 5 Claims. (Cl. 112—59.)

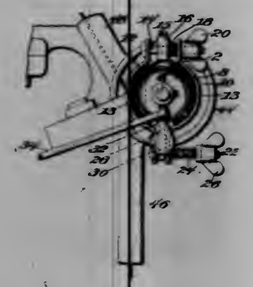


1. A sewing machine having, in combination, stitch forming devices, a tension wheel, a brake for retarding the rotation of the tension wheel, a main shaft from which said devices are operated, means for releasing the brake upon the reversal of the direction of rotation of the main shaft, a latch for holding the brake in released condition upon starting the machine, and means for releasing the latch.

1,451,919. TENSION DEVICE. WILLIAM C. MEYER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,503. 8 Claims. (Cl. 112—59.)

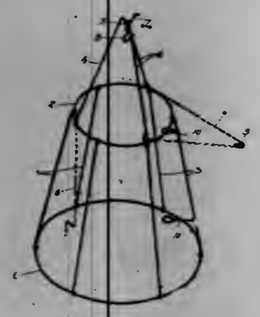
1. A tension device for sewing machines, having in combination, a tension wheel, a brake for the tension wheel comprising a brake wheel, a pair of brake shoes

for engagement with the periphery of the brake wheel, means for pressing the brake shoes against the brake wheel, and means for supporting the brake shoes having



provision for adjusting independently the brake shoes to compensate for wear and to locate the brake shoes properly with relation to the brake wheel.

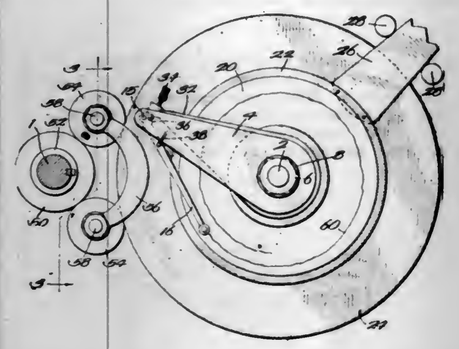
1,451,920. LANTERN SUPPORT. BUELL W. NUTT, Cleveland, Ohio, assignor to The Safety Equipment Service Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 2, 1921. Serial No. 466,270. 3 Claims. (Cl. 240—52.)



1. In a lantern support the combination of a wire frame of truncated conical shape adapted to receive a lantern, a screen cover for said frame, a V-shaped member pivotally attached to the upper portion of said frame and adapted to normally hang against the frame side, said V-member having a loop at its apex, a straight member pivotally attached to said frame opposite said V-member and normally hanging against said frame, said straight member having a recurved upper end adapted to be sprung into such loop in said V-member to form said two members into a rigid tripod above said frame, a hook attached to said loop and adapted to receive the lantern handle to support the lantern within said frame but above the bottom thereof.

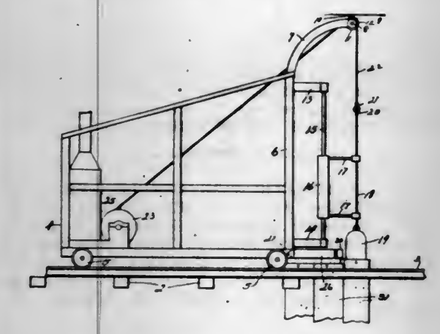
1,451,921. MECHANISM FOR TESTING GEAR-CUTTING MACHINES. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1922. Serial No. 567,525. 6 Claims. (Cl. 234—1.)

1. Mechanism for testing the angular velocities of two rotating elements comprising a driving disc rigidly connected to one of the elements to be tested, a driven disc, separated from the driving disc, an intermediate disc for transmitting motion from the driving to the driven disc, means for urging the intermediate disc into the throat



between the driving and driven discs, and indicating mechanism under the joint control of the driven disc and the other element to be tested.

1,451,922. DUPLEX SHEET-PILE DRIVER. JOSEPH PERNA, Philadelphia, Pa. Filed Mar. 2, 1922. Serial No. 540,420. 3 Claims. (Cl. 61—74.)

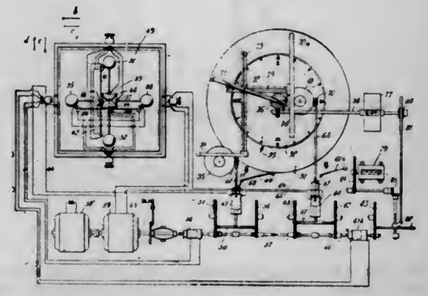


1. A pile driver consisting of a frame, an axle fixed in said frame, two pulleys adjustably journalled on said axle, means to hold said pulleys in their adjusted positions, cables running over said pulleys, means for operating the cables, a hammer connected to an end of each cable, two pairs of brackets hinged to the frame, a vertical rod between each pair of brackets and fixed thereto, a barrel slidably mounted upon each of said rods, and arms carried by each barrel through which passes a component part of each hammer.

1,451,923. VELOCITY INDICATOR. WINSLOW S. PIERCE, Jr., Bayville, N. Y. Filed Sept. 10, 1919. Serial No. 322,949. 9 Claims. (Cl. 264—1.)

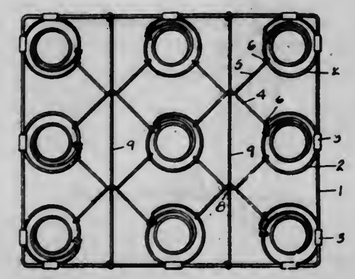
9. A velocity indicator comprising means for measuring changes in the horizontal component of an acceleration acting along the longitudinal axis of a moving object, means for measuring changes in the horizontal component of an acceleration acting laterally thereto, integrating mechanism adapted to obtain the resultant of said respective acceleration measures and to combine the resultant of the acceleration measures with the element of time, means for registering the integral product to

indicate velocity, a compass, a reference or lubber line therefor, and means for moving said reference line about the axis of the compass in accordance with changes in



lateral acceleration whereby the true course of the moving object is constantly indicated at the velocity registered.

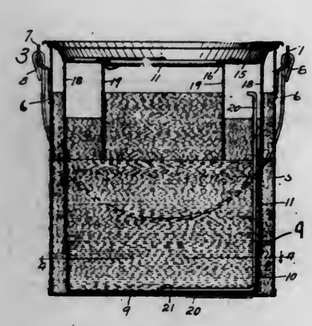
1,451,924. SPRING STRUCTURE. HERMAN O. REIDENBACH, Detroit, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich. Filed May 5, 1922. Serial No. 558,607. 6 Claims. (Cl. 5—29.)



1. In a spring structure, the combination of a border frame, a plurality of springs, the outer springs being secured to said border frame, V-shaped tie members disposed in coacting pairs with their ends secured to adjacent springs, the bight of one member of each pair being hooked, the hook being engaged with the bight of the coacting member, cross wires disposed in the hooks of aligned tie members, and tie wires disposed through said hooks and transversely of said cross wires locking said tie members and said cross wires, the ends of said cross and tie wires being secured to said border frame.

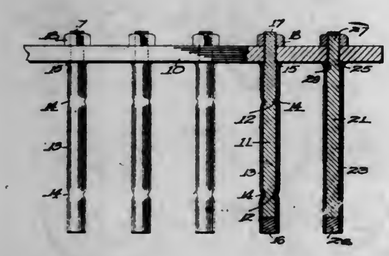
1,451,925. LIVE-BAIT BUCKET. WILLIAM J. RUFF, Quincy, Ill. Filed Aug. 17, 1922. Serial No. 582,532. 10 Claims. (Cl. 43—56.)

10. A bait bucket comprising a liquid container; a float disposed within said container; a bait cage attached to the bottom of the float; means in the container for indicating the proper water level thereof, and a pipe attached to the float and having its upper end approximately at the water level of the container when the float is in its



lowermost position, the bottom of said pipe having a vent opening therein adjacent the bottom of said bait bucket.

1,451,926. RAKE TOOTH FOR CARBONIZING ACID BOWLS. ALLAN C. SARGENT, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, a Corporation of Massachusetts. Filed Mar. 13, 1920. Serial No. 365,674. 3 Claims. (Cl. 259—99.)

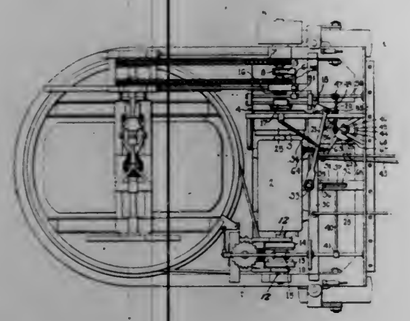


1. As an article of manufacture, a rake for use in a carbonizing bowl, comprising a tooth having a strong metallic core and a casing of a material not detrimentally affected by acid, said core having circumferential grooves on its surface and said casing being beaded into said grooves to hold it in position.

1,451,927. CONTROLLING MEANS FOR TRACTORS. RALPH J. STIMSON, Rogersville, Mich. Filed June 29, 1917. Serial No. 177,692. 33 Claims. (Cl. 180—26.)

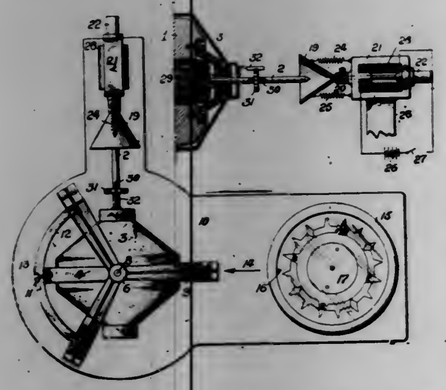
1. In a motor vehicle having a power plant, transmission mechanism, and a dirigible bearing wheel adapted to swing in either direction, means for swinging the wheel in either direction, means normally connecting the swinging means with the power plant, and a manually operable, angularly movable and bodily shiftable member having selective connections with the wheel swinging means and controlling the latter to swing the wheel in accordance with the position given the directing member, said member being operative to render the transmission mechanism temporarily inactive when the

member is bodily shifted, said transmission mechanism including a selective change speed mechanism, and means independent of the member, for rendering the selected



speed active, said latter means being operable at will in the presence of the bodily shifting movements of the member.

1,451,928. MAGNETIC GYROSCOPIC NAVIGATION DEVICE. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 21, 1918. Serial No. 250,838. 4 Claims. (Cl. 33—204.)

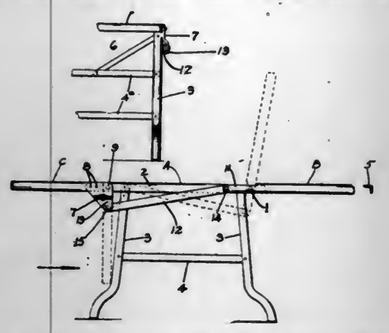


2. An instrument for use on shipboard in conjunction with the compass, said instrument comprising an azimuth gyroscope having its plane of rotation normally fore and aft of the ship, means controlled by said gyroscope for indicating change in heading of the ship and means for centralizing said gyroscope at will.

3. An instrument for use on shipboard, said instrument comprising an azimuth gyroscope having its plane of rotation normally fore and aft of the ship, means controlled by said gyroscope for indicating change in heading of the ship and electromagnetically controlled means for centralizing said gyroscope.

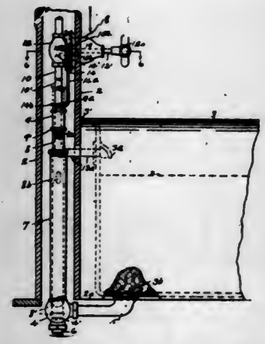
1,451,929. COUCH BED. EDWARD TURGEON, Minneapolis, Minn. Filed Mar. 23, 1921. Serial No. 455,531. 3 Claims. (Cl. 5—16.)

1. The combination, with a couch frame, of front and back sections pivoted thereon and adapted to be adjusted to a horizontal position on a level with said frame for use as a couch, or one section raised to a point above said frame to form a seat-back and the other section lowered below said frame, and links connecting said sections one



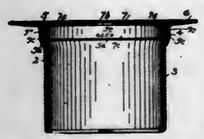
with the other, the connections of said links with said sections preventing the back section from being lowered until the front section is raised, and preventing the front section from being lowered until the back section is raised.

1,451,930. WASTE-OPERATING MECHANISM. ORVIS W. VALLIER, Watertown, N. Y., assignor to J. B. Wise Incorporated, Watertown, N. Y., a Corporation of New York. Filed Jan. 6, 1923. Serial No. 611,046. 7 Claims. (Cl. 4—24.)



4. In a waste operating mechanism, the combination with a waste stand-pipe and a plunger carried thereby, of a manually operable shaft adapted to be rocked towards the right or left for raising and lowering said plunger, a member eccentrically mounted on said shaft, a sleeve supporting said shaft and rotatable for adjusting the shaft, and a grapple loosely connected to said member and adjustably connected to the said plunger.

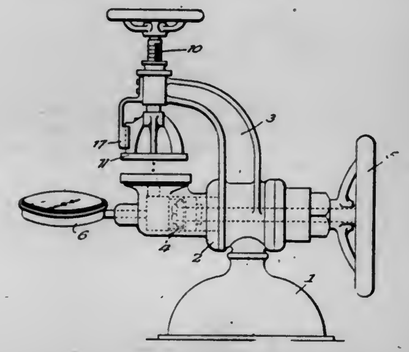
1,451,931. WASTE FITTING FOR SINKS. ORVIS W. VALLIER, Watertown, N. Y., assignor to J. B. Wise Incorporated, a Corporation of New York. Filed Feb. 7, 1923. Serial No. 617,490. 6 Claims. (Cl. 4—35.)



1. In a waste-fitting for sinks and the like, a bushing having a circular strainer socket in its top end, the said

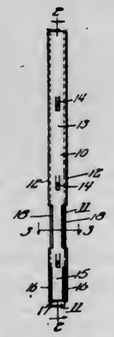
socket being funnel-shaped, and its sloping wall being formed with a circular row of bosses, which prevent the free gravitation of the strainer towards the bottom of the socket, and an inverted cup-shaped strainer having an unbroken depending flange that flares towards its free end adapted when the strainer is subjected to downward pressure to snap beneath said bosses for holding the strainer in place.

1,451,932. PAPER-TESTING MACHINE. JOHN W. WEBB, Chicago, Ill., assignor to The Container Club, Chicago, Ill., a Corporation of Delaware. Filed Dec. 19, 1921. Serial No. 523,308. 6 Claims. (Cl. 265—14.)



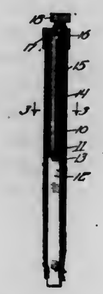
1. In a machine of the character described and having a means for creating and measuring liquid pressure and a diaphragm exposed to liquid pressure, material-holding means including a backing member formed with an elongated orifice opposite the field of pressure of said diaphragm.

1,451,933. ERASER HOLDER. HERMAN WEIG, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,789. 1 Claim. (Cl. 120—36.)



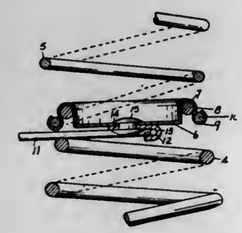
An eraser holder comprising a pair of tubular eraser receiving portions of substantially rectangular cross section, said tubular portions being spaced apart and disposed with their longitudinal axes in alignment, oppositely disposed webs formed integral with the adjacent ends of said tubular portions and connecting the same, each of said webs adapted to lie adjacent to one face of an eraser which is received by, and extends between, said tubular portions, and being of less width than the eraser, the walls of said tubular portions having projections struck therefrom for engaging the eraser and resisting displacement of the eraser in a direction toward the top of the tube, but permitting the eraser to be moved downwardly with comparative ease, the lower end of the tubular member being provided with spring members arranged to cooperate with the projections to prevent displacement of the eraser.

1,451,934. ERASER HOLDER. HERMAN WEIG, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,790. 1 Claim. (Cl. 120—36.)



An eraser holder comprising a tubular member adapted to receive an eraser, spring means at one end to prevent accidental displacement of the eraser, a cap detachably secured to the tubular member at the other end of said tubular member, a pin rotatably mounted in the cap, a tubular plunger threaded upon the inner end of said pin, and a circular member disposed between the plunger and the eraser and adapted to be engaged by both the eraser and plunger, the axes of the pin and plunger being eccentric to the axis of the circular member, the longitudinal axes of said eraser pin and plunger lying within the walls of the tubular eraser holder.

1,451,935. SPRING-SEAT CONSTRUCTION. LEONARD A. YOUNG, Highland Park, Mich. Filed June 21, 1921. Serial No. 479,382. 3 Claims. (Cl. 5—29.)

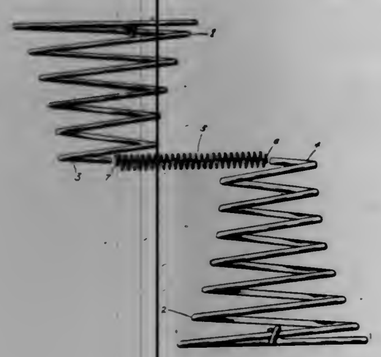


3. A spring seat structure comprising superimposed springs, connecting members therefor formed of sheet metal and having oppositely facing channels, the end coils of the springs being engaged in said channels.

1,451,936. METHOD OF FORMING COMPOUND SPRINGS. LEONARD A. YOUNG, Detroit, Mich. Filed Sept. 20, 1921. Serial No. 501,884. 4 Claims. (Cl. 29—173.)

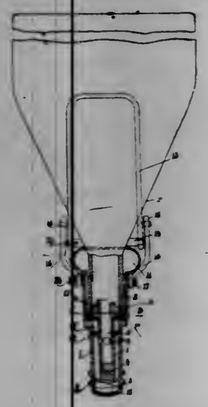
1. A method of forming compound spiral springs which consists in inserting the end coils of a pair of spring sec-

tions in the opposite ends of a hollow, resilient, substantially cylindrical connector and in rotating the sections



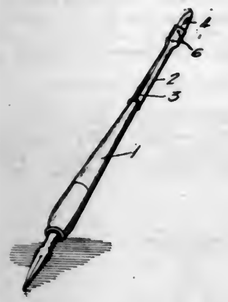
until the end turns are in superposed and axially aligned position, with the connector conformed to the curvature and pitch of the enclosed whorls.

1,451,937. DEVICE FOR THE PRESERVATION AND ASEPTIC DRAWING OFF OF LIQUIDS. JOSEPH ARNOLD, Ganshoren, near Brussels, Belgium. Filed Oct. 2, 1920. Serial No. 414,329. 7 Claims. (Cl. 215—73.)



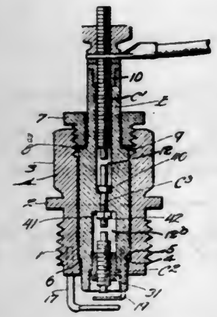
1. In a device for the preservation and aseptic drawing off of liquid contained in bottles and other vessels, a single tube, a central member fixed in said tube and comprising two systems of conduits communicating with the interior of the device, the one for the passage of the liquid and the other for the passage of the air, the conduits for the liquid opening lower than those for the air, a closing member comprising a sleeve for closing and opening the two systems of conduits, and a joint in said sleeve preventing all communication between the groups of conduits at the time of filling.

1,451,938. STEEL ERASER. JOHN BERG, Pasadena, Calif. Filed Sept. 15, 1921. Serial No. 500,875. 4 Claims. (Cl. 120—39.)



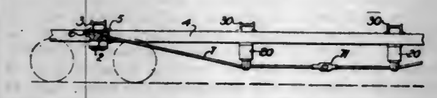
1. An eraser comprising an erasing blade, and a blank bent to form a hollow holder at one end, the opposite end of said blank being bent around and flattened against the shank of said blade.

1,451,939. SPARK PLUG. FRANCIS A. CARTER, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,267. 1 Claim. (Cl. 123—169.)



A spark plug comprising a metal sleeve provided with an electrode, an insulator sleeve mounted in the metal sleeve, said insulator sleeve being provided with a pair of longitudinal recesses separated by an integral wall of the insulator sleeve, a central electrode mounted in the wall, means to adjust said electrode, end closures for said recess, threaded inner and outer electrodes mounted in said end closures and co-operating with said central electrode, and an electrode imbedded in the insulator sleeve and having its free end disposed between the inner electrode terminal and the electrode on the metal sleeve.

1,451,940. LOGGING CAR FOR SHORT LOGS. FREDERICK W. CHRISWELL, Seattle, Wash., assignor to Pacific Car and Foundry Company, Seattle, Wash., a Corporation of Washington. Filed Aug. 3, 1922. Serial No. 579,372. 12 Claims. (Cl. 105—160.)



1. A logging car including a central longitudinal sill, transverse bolsters secured thereto adjacent each end, a

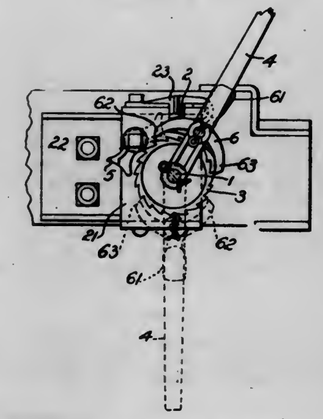
side sill at each side of the car, bunks extending transversely of the car intermediate said bolsters and supported at their ends upon said side sills, and means for supporting the ends of said side sills from the end bolsters.

1,451,941. TOOTHBRUSH AND PASTE HOLDER. FREDERICK H. CLUM, Detroit, Mich., assignor of one-half to Joseph W. Donaldson, Detroit, Mich. Filed Nov. 8, 1920. Serial No. 422,447. 6 Claims. (Cl. 132—84.)



1. In a device of the character described, the combination of a brush block, a holder having a seat to receive the brush block and formed with a longitudinal channel opening through said seat at one end, means for forcing dental paste into the opposite end of said channel, and means for detachably holding said brush block seated upon its seat.

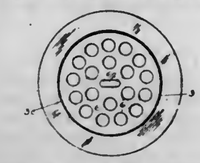
1,451,942. CAR BRAKE. ROY N. COATS, Renton, Wash., assignor to Pacific Car and Foundry Company, Seattle, Wash., a Corporation of Washington. Filed Aug. 10, 1922. Serial No. 580,840. 9 Claims. (Cl. 74—116.)



2. In a car brake operating means, in combination, a horizontal brake staff, a ratchet wheel secured thereon, a holding dog positioned at one side thereof, an operating handle pivoted concentrically with the ratchet wheel and when not in use hanging by gravity in vertical position, a weighted ratchet dog pivotally secured upon said handle, and adapted to be automatically engaged by gravity with the ratchet wheel when the handle is raised, and to be disengaged therefrom by gravity when the handle hangs in inoperative position, and a cam fixed above said ratchet wheel and engageable by the ratchet dog to release the latter upon raising the handle to an extreme upper position.

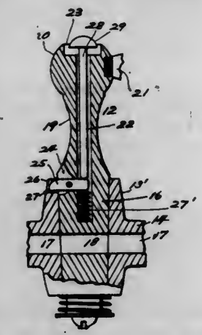
1,451,943. WASTE FITTING FOR SINKS. HARRY DE WALLACE, Syracuse, N. Y., assignor to J. B. Wise Incorporated, a Corporation of New York. Filed Feb. 7, 1923. Serial No. 617,529. 3 Claims. (Cl. 4—35.)

1. In a waste-fitting for sinks and the like, a bushing having an upwardly facing strainer socket, the wall of said socket being formed with an annular groove, and a strainer comprising a plane perforated disc and a depending annular flange, the strainer adapted to loosely fit said socket, and its depending flange being provided



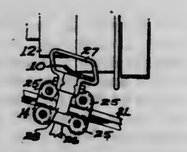
with radial outwardly facing tents which are adapted to snap into said annular groove when the strainer is forced downwardly into said socket.

1,451,944. LOCKING DEVICE FOR GAS VALVES. JAMES J. DOONER, Norristown, Pa., assignor of one-half to John J. Farren, Philadelphia, Pa. Filed July 8, 1920. Serial No. 394,783. 1 Claim. (Cl. 251—165.)



In a device of the character described, the combination of a valve casing, the upper rim of which is recessed and provided with notches designating "on," or "off," and at least two intermediate positions, a plug for said casing having a vertically disposed passage extending from the top of said plug to a point in a plane well below the plane of said notches, the upper part of said passage being countersunk, a rectangular detent for engaging a selected notch to hold said plug against movement, said detent being pivoted to said casing so as to normally lie in the same horizontal plane with said notches, a spring located in said passage beneath said detent in a plane below said notches, and a push rod located in said passage the bottom of which rod freely rests upon said detent to tilt the detent around its pivot as the rod is depressed, said rod having a knob at its top which is accommodated by the countersunk portion of said passage when the rod is depressed the downward movement of said rod being limited by said countersunk portion.

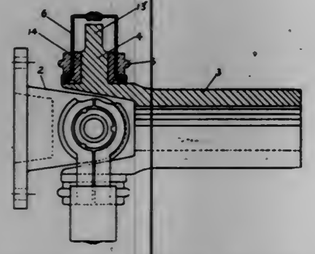
1,451,945. BELT SHIPPER. OSCAR F. EKLUND, Worcester, Mass. Filed Feb. 11, 1921. Serial No. 444,212. 5 Claims. (Cl. 64—4.)



1. A belt shipper having in combination a single guide bar of angular cross-section, a belt guiding member

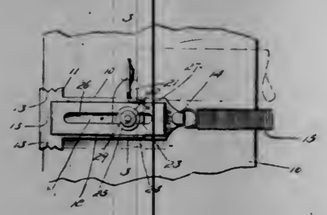
entirely supported and slidable on said single bar, and grooved rolls disposed in pairs on said member and engaging opposite angles of said bar to support and angularly position said member.

1,451,946. UNIVERSAL JOINT. HARRY M. FUNNELL, Bloomfield, Conn. Filed Mar. 18, 1922. Serial No. 544,782. 6 Claims. (Cl. 64—91.)



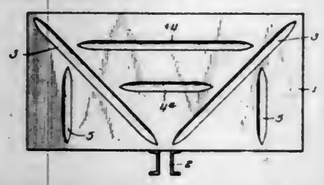
1. A universal joint comprising two forked members at approximately right angles to each other and the branches of which have external studs, a ring surrounding the forks and in which the studs are pivotally received to connect the forked members for universal movement, a series of hollow segmental lubricant receiving casing members surrounding the ring and the ends of which are contiguous, the casing member having openings and the studs having extensions extended into the respective casing members by way of the openings.

1,451,947. WINDOW-SHADE FIXTURE. NICHOLAS GUGLIUZZI, Ansonia, Conn. Filed Oct. 13, 1921. Serial No. 507,549. 3 Claims. (Cl. 156—23.)



1. In a fixture of the class described, a bracket which consists of a base member having an arm portion and a head portion, the latter being of greater width than the former and having a foot portion at substantially a right angle to the arm portion, said arm portion being provided with an inwardly turned flange at its upper and lower edges, and a slot therethrough substantially parallel with its length; a guard plate secured to said arm portion with an open space therebetween and having a slot therethrough substantially opposite the slot in the arm portion of the base member; a shade arm having a foot plate thereon at substantially a right angle to that portion of said arm that supports the shade roller and projects down through said open space between the guard plate and base member, and provided with a flange at its lower end, the open space between said flange and the shade supporting portion of said arm being substantially the same width as that of said guard plate; and means projecting through said guard plate and shade arm for adjustably securing said shade arm in any of its adjusted positions relatively to said base member.

1,451,948. PLATE-METAL CAR END. HARRY S. HART, Chicago, Ill. Filed Jan. 8, 1921. Serial No. 435,793. 3 Claims. (Cl. 105—410.)



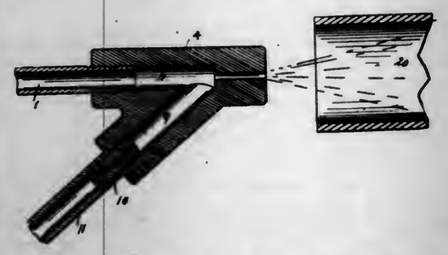
1. In a railway car, a center sill, an end wall, said end wall being a one-piece member provided with ribs to transmit to said center sill downward forces applied adjacent to the sides of a car, said ribs including diverging compression ribs extending from a point directly above said center sills to points at the upper corners of said end wall and a horizontal tension rib lying intermediate of, but terminating short of the upper ends of said diverging ribs.

1,451,949. GLOVE. WILLIAM E. HASELTINE, Ripon, Wis. Filed Feb. 13, 1922. Serial No. 536,158. 1 Claim. (Cl. 2—9.)



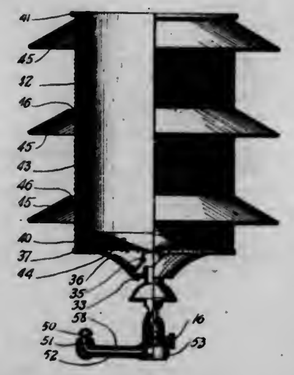
A glove comprising a hand part of leather and an elongated gauntlet part of knitted, flexible, elastic woolen material stitched to the wrist end of said hand part, said gauntlet part comprising a tube of double the length of the gauntlet part "fashioned" in knitting to provide distinctly narrow ends and a wider part intermediate said ends, said tube being turned upon itself to bring the narrow ends to coincide, thus providing a double thickness tube for the gauntlet, with a narrow wrist part and a wider part above the wrist.

1,451,950. NONPREHEATING OIL BURNER. CHRIS HESKETT, Indianapolis, Ind. Filed Sept. 23, 1920. Serial No. 412,233. 2 Claims. (Cl. 158—76.)



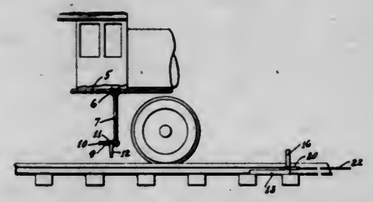
1. In an oil burner, a body-member having a gas passage the cross-sectional area of the major portion of which is more than twice that of its discharge end, a branch member from the body having a bore of approximately the same diameter as the major portion of the bore of the body-member and opening into said major bore near its reduced portion, a round plug in the outer end of the bore of the branch member having a bore of less cross-sectional area than that of the reduced portion of the body member, means for supplying air under pressure to the bore of the body member and oil under pressure to the bore of the branch, and a tube separated from the body member by an air-space through which the mixture issuing from the body-member is discharged.

1,451,951. COMBINED GAS HEAT AND LIGHT BURNER. JAMES MCCAULEY, New York, N. Y. Filed Oct. 9, 1922. Serial No. 593,415. 2 Claims. (Cl. 126—254.)



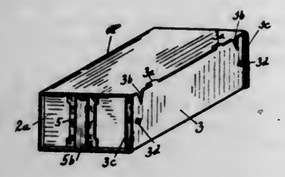
1. A heater comprising a perforate cylinder, a deflector spaced concentrically interjacent, a mixing chamber on which said cylinder is supported, said chamber having adjustable air inlets, a hollow support for said chamber leading from a gas supply pipe and having a lateral opening through its wall, a hollow arm rotatably mounted on said support, and a gas light tip carried at the end of said arm, the passage in said arm being registrable with the lateral opening in said support.

1,451,952. TRAIN STOP. JAMES MCFARLAND, Tiffin, Tex. Filed Aug. 17, 1921. Serial No. 492,974. 1 Claim. (Cl. 246—203.)



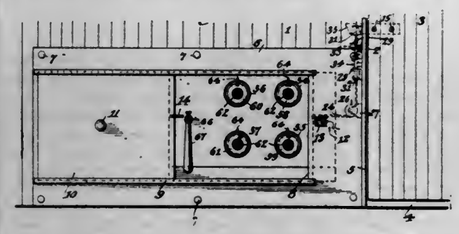
A train stop of the character described embodying a relatively broad base member, a pair of ears projecting from one end face of the base member closely adjacent the sides of the base member and extending beyond the top of the base member in spaced parallel relation to each other, a relatively broad trip lever adapted to be disposed upon the base member and between the projecting portions of the ears, that portion of the lever disposed between the ears being pivoted to said ears, means carried by said pivoted end portion for moving the lever into the path of a movable object, the extremity of said lever being substantially extended to one side to provide a stop adapted at times to engage the end face of the base between the ears, to prevent movement of the lever away from the base beyond a point substantially at right angles to the base.

1,451,953. MATCH BOX. DAVID B. MACDONALD, Davenport, Iowa. Filed Dec. 4, 1920. Serial No. 428,263. 4 Claims. (Cl. 206—37.)



1. In a match box having an open ended match box case, a breaking device having off-set clasp means for securing it to the match box, tube means at each of its ends, sharp angulate notches in one of its edges capable of use in breaking a match, multiple diamond hole means linearly disposed in its surface the whole secured to said match box by said clasp means; another breaking device having lug clamp means for securing the same to the match box and a corrugation in its surface, secured to said match box by said lug clamp means inserted in holes provided in the said match box; another breaking device having off-set clasp and clamp lug means for securing the same to the match box, square holes formed in the clasp member of the breaking device, appositely arranged with other diamond hole means provided in the body of the breaking device and other diamond hole means provided in the end and side of said box, the breaking device formed conformably to a corner of said box, its body forming a triangular tube, erected upright in the corner of said box, clamp lug means provided on one side of the breaking device, said clamp lug means inserted in holes provided in the said match box, the off-set clasp means hooked over the end of said box; another breaking device composed of a loop having a pair of arm brace members extending at right angles from the loop, an eye member at the end of each arm the arm members and eyes suitable to unite with other suitable means in securing the loop to an end of the match box; angulate notch means in the edge of said match box, conformable to other like angulate notch means provided in a breaking device attached thereto; hole means provided in the sides and ends of the match box conformable to other like hole means provided in breaking devices attached to said box in such manner as to form a breaking device of such holes; other angulate hole means provided in the bottom of the match box arranged in its corners in apposition with the openings of breaking devices, all for the purposes specified.

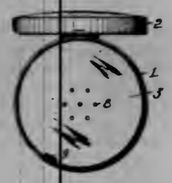
1,451,954. COMBINATION LOCK. JAMES O'KELLY, Oneonta, N. Y. Filed Oct. 28, 1922. Serial No. 597,546. 5 Claims. (Cl. 70—53.)



1. A combination lock comprising a plurality of toothed locking discs, each provided with a slot, means meshing with said disks for independently shifting them to cause the positioning of the slots in parallelism, a spring controlled locking bolt, a slidable member con-

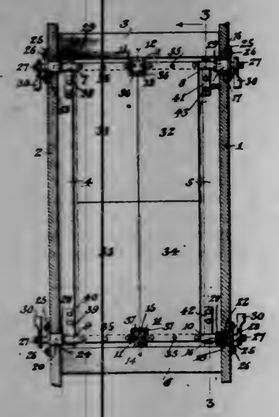
nected with said bolt and adapted to be shifted in the slots when arranged in parallelism, thereby providing for the moving of the bolt to released position, a flexible element connected to said slidable member, and means for winding said flexible element to shift the slidable member into the slots when positioned in parallelism thereby shifting the bolt to released position.

1,451,955. POWDER BOX. RALPH W. OLIVER, Toledo, Ohio. Filed May 19, 1922. Serial No. 561,880. 2 Claims. (Cl. 132—82.)



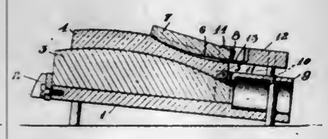
1. In a box of the class described, a flexible diaphragm removable therefrom and having centrally disposed perforations, a ring of felt-like material spacing the marginal edge portion of the diaphragm from the box bottom and compressible by pressure on the diaphragm to form a close joint between the diaphragm and bottom, the diaphragm, box bottom and ring cooperating to form a powder receiving chamber.

1,451,956. CAMERA ATTACHMENT. ARLIE PAYNE, Paragould, Ark. Filed Mar. 5, 1920. Serial No. 363,582. 3 Claims. (Cl. 95—36.)



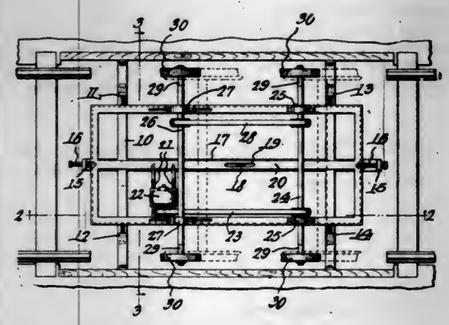
1. A multiplying attachment for cameras comprising an upper pair of lengthwise aligning shafts, one independently operable with respect to the other, a lower pair of lengthwise aligning shafts, one independently operable with respect to the other, each of said shafts consisting of a polygonal shaped body portion and inner and outer cylindrical terminals, an upper bearing member adapted to be secured to the upper end of the camera body and having mounted therein the opposed inner terminals of the upper pair of shafts, a lower bearing member adapted to be secured to the rear end of the camera body and having mounted therein the opposed inner terminals of the lower pair of shafts, a shutter secured to one of the sides of the body portion of each of said shafts and having one corner thereof cut away to provide a clearance for a bearing member, bearing elements adapted to be arranged in the sides of the camera body and each having an outer end terminal of a shaft journaled therein, flat holding springs adapted to be secured within the camera body and each bearing against the polygonal body portion of a shaft, and means connected to the outer terminals of said shaft for manually operating them.

1,451,957. APPARATUS FOR THE MANUFACTURE OF BIFOCAL LENS BLANKS. JOHN R. POWELL, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 27, 1922. Serial No. 539,475. 8 Claims. (Cl. 49—14.)



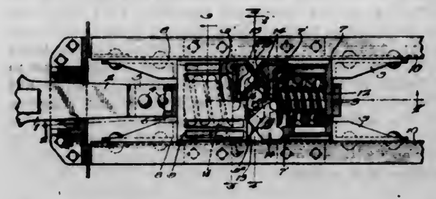
1. In an apparatus for fusing bifocal lens blanks comprising a support for the major lens blank and a support for the minor lens pivotally mounted thereon having its free edge extended over the edge of the major lens support.

1,451,958. WHEEL GRINDING AND TRUING MACHINE. JOHN C. PRICE, Olcott, W. Va. Filed Sept. 14, 1922. Serial No. 588,210. 2 Claims. (Cl. 51—170.)



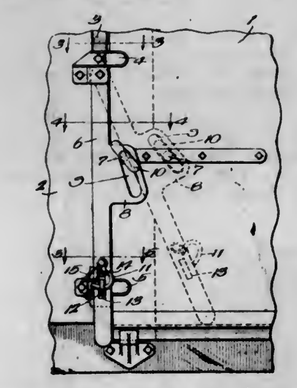
1. The combination with a car pit and two removable rail sections for receiving the car wheel, of a wheel truing and grinding machine including a supporting frame mounted within the pit and having transverse and longitudinal members, upturned lugs carried by said members of the frame, an adjusting screw mounted in each upturned member, a second frame resting upon the first frame and abutted by said adjusting screw whereby the second frame may be adjusted longitudinally and laterally relative to the first frame, two parallel shafts one of which is mounted adjustably relative to each other and carried transversely of the second frame, the ends of said shafts being disposed to project slightly below the traffic rails, abrasive wheels removably mounted upon the ends of said shafts and adapted when the traffic rails are removed to project thereabove to engage the wheels to be operated upon, transmission means between said shafts whereby both shafts may be operated in unison, and a prime mover suspended from the second frame and operatively connected to one of said shafts.

1,451,959. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Sept. 5, 1919. Serial No. 321,931. 2 Claims. (Cl. 213—47.)



1. A draft gear including a coupler; inner and outer followers actuated thereby and movable each toward the other; springs, one individual to each follower, for resisting the approach of the followers toward each other; and two rockers having opposed engaging faces, one rocker being individual to each follower and actuatable thereby, said rockers being interposed between and engaged by said springs to maintain the rockers in contact and resist follower effected movement thereof, each rocker being formed with a projection extending longitudinally of the gear one projection overlying the other, each projection upon each rocker engaging the body portion of the other rocker.

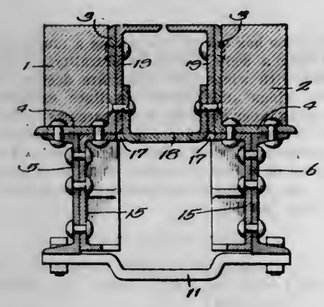
1,451,960. CAR DOOR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Jan. 29, 1921. Serial No. 440,989. 4 Claims. (Cl. 268—6.)



1. The combination with a door mounted to move bodily substantially in its plane; of mechanism for forcing the bodily movement of the door comprising one element in the form of a lever that carries a cam member and an element constituting a cam member complemental to the aforesaid cam member, one of these elements being carried by the door and the other being mounted apart from the door upon one side thereof, the movement of the lever forcing movement of the door through the intermediation of the co-operating cam members, the cam member that is complemental to the cam member carried by the lever overhanging the latter cam member when the door is in closed position then to prevent separation of these cam members, the cam members being relatively formed to permit their separation and the subsequent independent movement of the lever when the door is sufficiently opened.

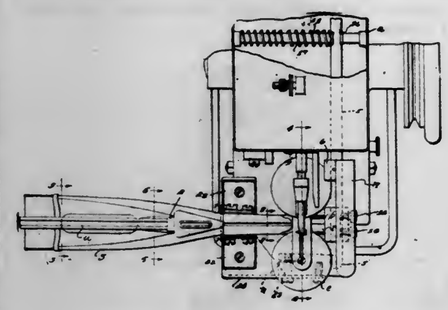
1,451,961. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Mar. 20, 1922. Serial No. 545,101. 7 Claims. (Cl. 213—51.)

1. A car structure including two longitudinal wooden center sills; two angle irons having inner upright sides and lower outwardly extending horizontal sides, each sill having an angle iron individual thereto and received in the angular seat formed by its angle iron; two draft arms in the form of longitudinal upright channel irons whose horizontal flanges extend outwardly, each angle iron having a draft arm individual thereto and below the same, the lower horizontal side of each angle iron being riveted to the top flange of its draft arm; two inner draft lugs having upright sides and inwardly extending top sides, each draft arm having a draft lug individual thereto, the upright side of each draft lug being riveted to the upright side of its draft arm; a bolster underlying the wooden center sills and extending transversely there-



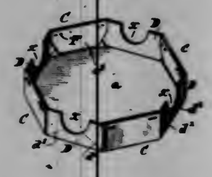
of; additional angle irons having upright sides against the upright sides of the first aforesaid angle iron and upper inwardly extending horizontal sides; a U-shaped member extending between the upright sides of the additional angle irons and having upwardly extending sides each riveted to the upright sides of both angle irons adjacent thereto, the inner side of the base of said U-shaped member engaging the outer upright face of said bolster, the top sides of the draft lugs themselves having inwardly extending lug formations that engage the outer side of the base of the U-shaped member; and a draft gear assembled with said draft arms and having a portion in abutting relation to the outer ends of said draft lugs.

1,451,962. MACHINE FOR STITCHING COVERS ON CORES. PAUL RISSMANN, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed July 11, 1921. Serial No. 483,787. 14 Claims. (Cl. 112—2.)



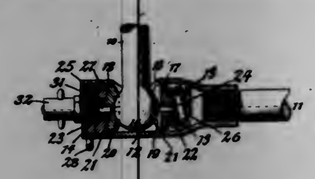
1. In a machine of the character specified, the combination of means for stitching, means for guiding and curling trimming material into a substantial tube, means for guiding a core within said trimming material tube, and a pair of lateral feed rolls and an under feed roll all concaved and fitting closely together for substantially surrounding and feeding the combined core and trimming tube past the stitching means.

1,451,963. BOX COVER. GEORGE E. SCRUBY, Birmingham, Ala., assignor, by direct and mesne assignments, to George B. Kelley, Birmingham, Ala. Filed June 27, 1921. Serial No. 480,608. 5 Claims. (Cl. 229—32.)



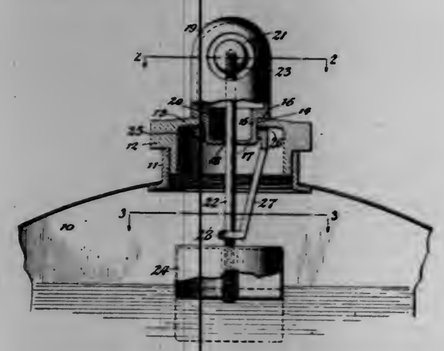
1. A blank for box covers comprising a single piece of material having a body portion, a plurality of side portions formed with wings and which are deeply recessed between the wings and creased on lines extending inwardly from the inner portions of the recesses to the inner ends of the wings, and other side portions intermediate those first mentioned, each side portion folding with the bottom portion on a fold line which is at an obtuse angle to the fold line on which the adjacent side portion folds with the bottom portion.

1,451,964. BALL JOINT. ALBERT B. SHULTZ, Buffalo, N. Y. Filed Sept. 28, 1921. Serial No. 503,790. 3 Claims. (Cl. 287—90.)



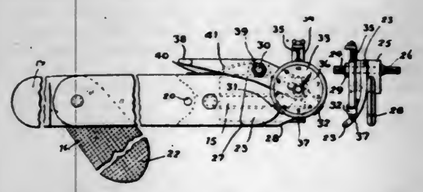
1. A ball joint comprising a tubular body, inner and outer bearing disks arranged on said body and each provided with a concave seat, and a distributing groove extending across said seat and a shank provided with a ball engaged on its opposite sides by the seats of said disks.

1,451,965. LIQUID-LEVEL GAUGE. ALBERT B. SHULTZ, Buffalo, N. Y. Filed May 3, 1922. Serial No. 558,094. 2 Claims. (Cl. 73—82.)



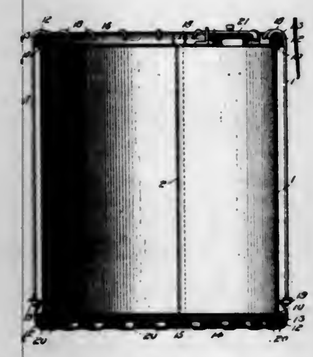
1. A liquid level gauge comprising a cap adapted to be mounted on the receptacle containing the liquid to be gaged and having an opening in its top, a nipple arranged in said opening and having a shoulder at its upper end and an internal perforated flange at its lower end, a hood arranged at the upper end of said nipple and having a sight opening, a vertically movable shifting rod guided in the perforation of said flange and provided at its upper end with an indicator head which is adapted to move vertically relative to said sight opening, a float mounted on the lower end of said rod and adapted to respond to variations in the height of the liquid in said receptacle, a screw nut arranged on the lower part of said nipple and engaging with the underside of the top of said cap, and a guide arm depending from said screw nut and provided at its lower end with an eye in which the lower part of said shifting rod is guided.

1,451,966. CUTTING TOOL. ROBERT F. SMALLWOOD, New York, N. Y. Filed May 1, 1920. Serial No. 378,063. 10 Claims. (Cl. 164—83.)



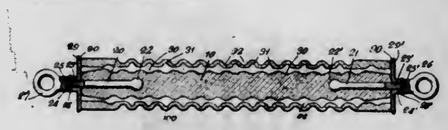
1. In a device of the character described, in combination, a cutting blade, a holder for said blade provided with a bearing point about which said holder and blade may be pivoted, and adjustable means forming a second bearing point for supporting said holder and for determining the extent to which said cutting is to extend below the plane of said two bearing points.

1,451,967. TANK. WILLIAM H. STARCLOUGH, Parkersburg, W. Va. Filed June 21, 1921. Serial No. 479,215. 17 Claims. (Cl. 220—5.)



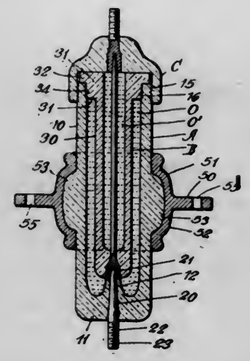
15. A tank comprising a bottom having a marginal groove therein, a packing arranged in said groove, a top having a marginal groove therein, a side wall extending into said grooves and formed with a seam comprising interlocked folded portions, means for expanding said side wall to tighten the interlocked relation of said folded portions, and means for causing said side wall to be clamped between said top and the said packing, said last named means comprising a plurality of clamps engaging the exterior of said bottom, and strain rods respectively connected to said clamps and operating to draw said top and said bottom toward each other.

1,451,968. INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed July 25, 1918. Serial No. 246,650. 4 Claims. (Cl. 173—318.)



3. In a device of the kind described, a composite insulator consisting of a body of insulating material, the surface thereof having undulations therein, a tube of insulating heat resisting material surrounding said body, the surface of the inner walls of the tube also having undulations therein, an insulating cement comprising a layer of insulating material filling the space between the surface of the insulating body and the inner wall of the heat resisting tube, said cement operating to secure the inner insulating body and the outer tube to each other, the body and the tubular heat resisting cover being of the same length, stress distributors embedded in said body of insulating material and having threaded ends projecting beyond the ends of said body, and metallic discs rigidly secured to the connecting ends of said stress distributors, having suspension eyes integrally formed thereon.

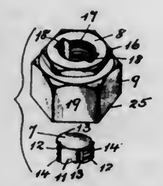
1,451,969. INSULATED CONNECTOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed May 23, 1919. Serial No. 299,212. 6 Claims. (Cl. 173—311.)



1. In a device of the class described, an insulator comprising nested and closed containers, one of said containers forming the closure for the other container, coacting conductors carried by said containers and a cap of insulating material forming the closure of the first mentioned container, said cap having a conductor molded therein arranged to engage the conductor carried by the innermost container.

1,451,970. TEMPORARY FASTENING. SAMUEL W. TAYLOR, Baltimore, Md., assignor to Constant J. Kryzanowsky, Ruxton, Md. Filed Feb. 3, 1920, Serial No. 355,974. Renewed Jan. 16, 1922. Serial No. 529,743. 7 Claims. (Cl. 85—1.)

1. In a fastening device the combination with a bolt having a permanent head at one end of its body which latter also has a longitudinally-extending threaded portion and a longitudinally-extending smooth portion both of which portions extend from the end of the body toward the head, of a sleeve having an angular head at one end and its interior provided with longitudinal smooth and threaded portions, said sleeve having a continuous screw-thread around its exterior circumference, and a nut engaging the continuous threads on the exterior of the sleeve and movable on the latter.

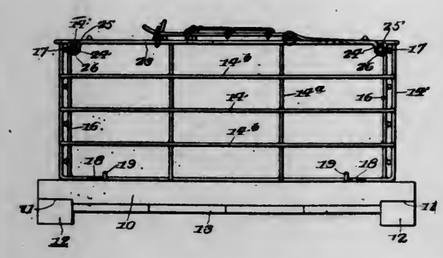


1,451,971. COOKING GRILL. MICHELE TOCCHIO, Hammersmith, London, England. Filed Mar. 7, 1922. Serial No. 541,826. 1 Claim. (Cl. 53—5.)



An appliance for a cooking grill, consisting of a corrugated metal piece having perforations, and provided with slides on the underside to receive a shutter adapted to close or open the holes.

1,451,972. FOLDING COOP. GEORGE W. VANDEVENDER, Mill Creek, W. Va., assignor of one-half to Adam S. Vandevender, Mingo, W. Va. Filed May 2, 1921. Serial No. 466,187. 1 Claim. (Cl. 220—6.)

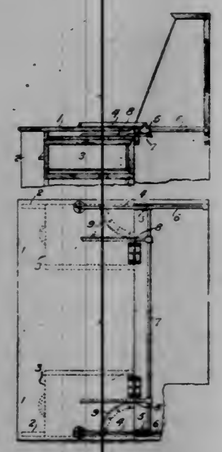


A folding coop comprising a base, side and end walls hinged to the base and foldable thereon, each end of each side wall having vertical parallel bars, a removable cover having loops adjacent its corners depending below the upper portions of the side walls to receive fastening devices therethrough, and longitudinally extending bars on the upper ends of the end walls having their opposite ends projecting beyond the ends of the walls and resiliently held between the upper ends of the parallel bars of the side walls.

1,451,973. BUREAU. GEORGE CONRAD LUZ WEGUELIN, Chertsey, England. Filed Mar. 28, 1922. Serial No. 547,364. 2 Claims. (Cl. 45—6.)

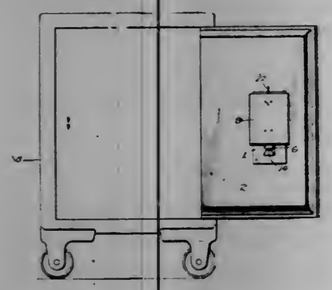
1. In a bureau, the combination with a flap, of two sets of drawers movably mounted below the flap, doors, one of which is fast to one set of drawers and the other of which is fast to the other set of drawers, and mecha-

nism connecting the flap to the doors such that the opening of the flap moves the doors to open position and the



drawers to accessible position, while the closing of the flap moves the drawers to a position in which they lie transversely front to front and closes the doors.

1,451,974. SAFE AND VAULT PROTECTOR. WALTER C. BECKWITH, Fostoria, Ohio. Filed Mar. 31, 1922. Serial No. 548,372. 2 Claims. (Cl. 109—6.)



1. Protective means for safes or the like comprising a base adapted to be secured to the interior of the safe, means on said base for holding in inverted position a receptacle containing an air poisoning agent, a stopper for said receptacle, a spring held trip plate slidably mounted on said base adapted to cause said stopper to be withdrawn when said trip plate is released and a chain mounted in the interior of the safe door for normally holding said trip in set position, said chain adapted to be severed to release said trip when the walls of said door are cut.

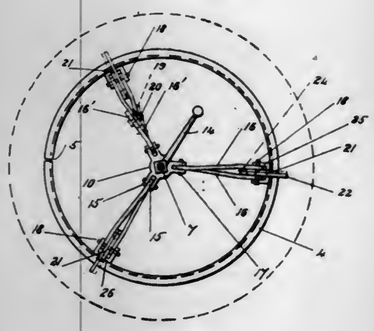
1,451,975. REENFORCING FABRIC FOR TIRES. THOMAS BRANSON, Philadelphia, Pa., assignor to Sibson & Stern, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1919. Serial No. 345,824. 9 Claims. (Cl. 66—4.)

2. A textile structure of the character described including, in combination, a series of cords extending longitudinally of the fabric; and a ground work comprising a number of interconnected binder threads each



serving, by means of embracing loops, to tie two adjacent cords of the series together independently of adjacent binder threads connecting a pair of their adjoining cords.

1,451,976. WHEEL-RIM ADJUSTER. WILLIAM L. CHAMBERS, Eden, Utah. Filed July 19, 1922. Serial No. 575,976. 2 Claims. (Cl. 157—1.)

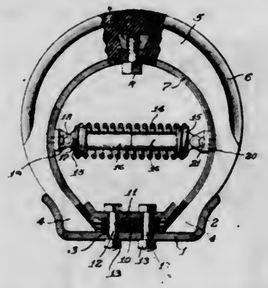


1. A wheel rim adjuster, comprising an operating screw, two crossheads operatively connected with the said screw, radial arms arranged in pairs and pivoted at their inner ends to the respective crossheads, grapples pivoted to the outer end portions of the said arms and adapted to engage with the flanges of a wheel rim, each grapple being pivoted directly to the pair of arms to which it pertains by a single pivot pin, and expanding brackets also pivoted to the said arms by the same pivot pins as the said brackets and adapted to bear on the inner surface of the wheel rim.

1,451,977. TIRE. WILLIAM E. CURTIS, Wyandotte, Mich. Filed Nov. 18, 1921. Serial No. 516,021. 1 Claim. (Cl. 152—8.)

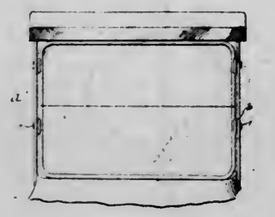
The combination of a rim and a tire, said tire including abutting, resilient units on said rim, a laminated bowed spring in each unit, said spring having its bowed portion connected to said unit and its ends overlapped

and connected to said rim, a coiled retractile spring in each unit having its ends loosely connected to opposed



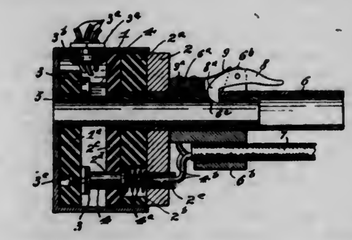
walls of said bowed spring, and a studded plate mounted on the overlapped ends of the bowed spring to connect said ends to said rim.

1,451,978. WINDSHIELD PIVOT. FRANK M. EDGAR and THOMAS P. ARCHER, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 17, 1922. Serial No. 553,936. 7 Claims. (Cl. 296—92.)



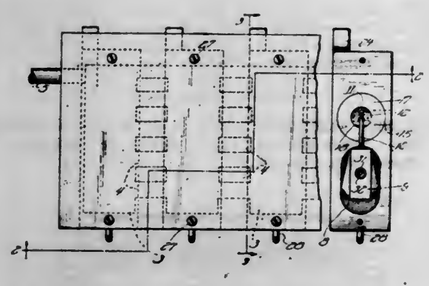
1. In a windshield pivot, the combination of a clip in the form of a stamping that may be secured to the panel frame, and a trunnion in the form of a block having a reduced inner end which may be placed through an opening in the stamping and upset to secure the trunnion to the stamping.

1,451,979. ELECTRIC-CONDUCTOR COUPLING. THOMAS H. FENN, Cleveland, Ohio, assignor of one-half to Thomas Foulkes, Cleveland, Ohio. Filed May 17, 1921. Serial No. 470,377. 5 Claims. (Cl. 173—338.)



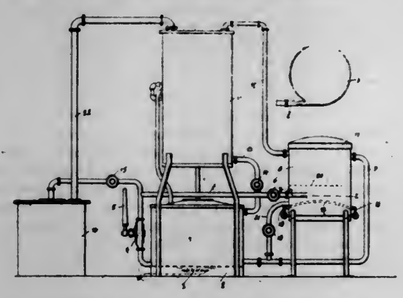
1. In an electric coupling for simultaneously connecting a plurality of electric terminals and contact elements, cylindrical shaped socket and head members carrying a plurality of electric terminals and relatively fixed and movable contact elements, and longitudinally extending eccentrically located guide members adapted to initially engage and slide over each other whereby said plug member must be brought with its contact elements in alignment with the contact elements of said socket member when inserted.

1,451,980. PNEUMATIC ACTION. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schulz Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,148. 16 Claims. (Cl. 84—53.)



1. In a pneumatic action, the combination of a windway member channelled to provide transverse partition walls forming pneumatic chambers and valve holding structures secured to said windway member and forming closures for said windway member chambers.

1,451,981. METAL SCOURING AND UNGREASING DEVICE. MAX HELLER, Berlin-Charlottenburg, Germany. Filed Sept. 14, 1920. Serial No. 410,328. 17 Claims. (Cl. 266—7.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A metal scouring and ungreasing device of the type described comprising in combination, a collector adapted to contain the scouring liquid; a closed scouring tank to receive the articles to be scoured; a condenser; means for heating the scouring liquid; means for conducting the liquid from the collector to the scouring tank, and vice versa; a pipe for conducting the vapours existing in the tank to the condenser; and a valve-controlled pipe connecting said condenser and collector.

1,451,982. SPLIT HUB HEAD FOR CYLINDERS FOR SPINNING FRAMES, SPOOLERS, AND CYLINDERS OF LIKE NATURE. WINGO HERRON and JOSEPH H. JESTER, Augusta, Ga. Filed Mar. 7, 1922. Serial No. 541,654. 2 Claims. (Cl. 64—17.)

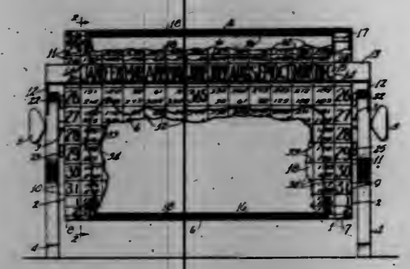
1. A cylinder unit of the character described comprising a shaft, two heads each having a hub extending laterally of one face thereof, said heads being adapted to be

movably mounted on the shaft with the hubs in confronting relation, adjustable means carried by each hub for releasably securing it to the shaft, and a cylinder body spanning the heads and having openings through its



walls substantially in radial alinement with said adjustable hub securing means, said openings being adapted to permit of the insertion therethrough of a suitable tool for manipulating said adjustable securing means.

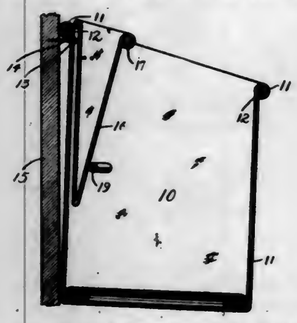
1,451,983. TIME INDICATOR. CARL W. JAEGER, Westby, Wis. Filed June 3, 1921. Serial No. 474,693. 1 Claim. (Cl. 235—86.)



A device of the character described comprising a cylinder formed with an annular transparent panel in its peripheral wall, said cylinder being provided with a series of characters on its periphery arranged in a row substantially parallel with an edge of the peripheral wall, means for supporting the cylinder for rotation about its axis, an indicator bar carried by said supporting means and disposed transversely to the periphery of the cylinder, said indicator bar having marked thereon a series of characters arranged in a row, a sheet having marked thereon a series of characters representing computed results related to the characters on the periphery of the cylinder and on the indicator bar and arranged in predetermined positions, a drum disposed within the cylinder, said sheet being secured at one end to the drum and being wound thereon, means engaging said sheet at its other end for unwinding it from the drum, and an inner cylindrical guide plate concentric with the first named cylinder and having a diameter less than that of the inner wall of the latter, said guide plate having a slot therein extending across its periphery through which the sheet may be projected and disposed between the peripbery of the latter and the inner wall of transparent panel so that the characters on the sheet are visible and occupy predetermined positions with respect to the first named characters and the second named characters.

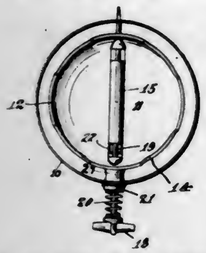
1,451,984. GLUE CONTAINER AND BRUSH HOLDER. FRANCIS R. JORDAN, Boone, Iowa. Filed May 23, 1921. Serial No. 471,803. 1 Claim. (Cl. 91—67.1.)

In a device of the class described a container having its upper end open and having its back wall of greater height than its front wall, the back wall being provided with openings near the upper edge thereof so that the container may be fastened to a support, a second container designed to be received in said first container, said second container having hook portions formed on its sides adapted to overlap the upper edge of the side walls of the first container, said second container being substantially V shaped in cross section, a rod received within said first container and secured to the end walls thereof, said rod being spaced from and parallel with



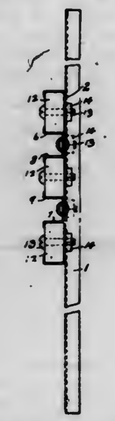
the back wall of said first container, the lower end of said second container being received in the space between the back wall of the first container and said rod for maintaining it in proper position as and for the purposes stated.

1,451,985. DAMPER. JOHN W. KELLER and REVILLO S. CONGAR, Lorimore, Iowa. Filed Feb. 3, 1919. Serial No. 274,795. 1 Claim. (Cl. 126—292.)



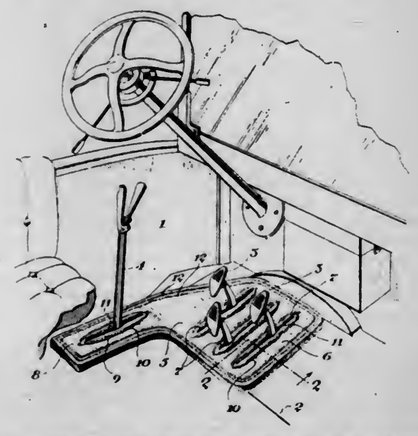
A damper for stove pipes, comprising a disc-shaped member having on one side a peripheral flange and having on the same side a smooth-faced rib, extending across the face of the disc, loops projecting from the opposite side of said damper, a spindle adapted to be received in said rib and said loops, the rib and one of said loops having oppositely disposed grooves, oppositely disposed lugs on the spindle adapted to be received in said grooves when the spindle is inserted in the damper, the said loop having a pair of oppositely disposed grooves arranged at right angles to the first grooves, said pair of grooves extending only part way through the loop, shoulders formed thereby in the inner ends of said pair of grooves, said pair of grooves being adapted to receive the lugs on the spindle, whereby said lugs will rest against said shoulders in said pair of grooves, and said spindle will be non-rotatably mounted in the damper, a boss formed on said damper at the point where the spindle enters the damper, said boss being adapted to rest against the inner surface of the stove pipe, a collar on said spindle, a handle on said spindle, and a spring received between said collar and said handle, said collar being adapted to rest against the outer surface of the stove pipe, said spring being adapted to hold said boss and said collar in frictional engagement with the stove pipe, whereby the damper may be held in any adjusted position, said flange being curved away from the disc 11, whereby when the damper is installed in the stove pipe, with the flange extending downwardly, the ascending gases may be given a downwardly whirling motion, said flange having notches terminating short of the body of said disc, whereby the gases may pass upwardly around the edges of the damper.

1,451,986. VARIABLE SIGN. ROBERT L. KILPATRICK, Hempstead, Tex. Filed May 3, 1921. Serial No. 466,543. 1 Claim. (Cl. 40—142.)



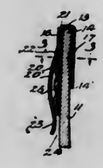
A variable sign including a support, a plate attached thereto whose upper and lower edges are turned outwardly at right angles to the plate, the edges of said out-turned portions being overturned into parallel relation with said plate, flanges secured to said plate and opposing and spaced from said respective outturned portions, said flanges standing at right angles to the plate and having their free edges overturned at right angles toward the corresponding overturned edges of said outstanding portions of said plate, thus forming upper and lower channels, outstanding flanges fastened to said plate and being spaced apart and spaced from said first mentioned flanges and having their free edges overturned toward each other forming an intermediate channel, sign carrying blocks fitted into the respective channels, each channel having end slots through said plate, end blocks between which the sign carrying blocks are located, end bolts fastened to the end blocks and passing through said slots and means for adjustably securing said bolts to said plate.

1,451,987. SLOT-CLOSURE MAT FOR AUTOMOBILES. ANDREW S. KINNEY, Redwood Falls, Minn. Filed July 13, 1922. Serial No. 574,832. 6 Claims. (Cl. 74—81.)



1. A device of the character described including a mat of felt-like material, said mat provided with a slot therein adapted to receive a control lever for automobiles, the walls of said slot meeting to form a seal, and the material forming said walls having a swelled or puffed formation.

1,451,988. SHOESTRING FASTENER. BERNAT M. KLEIN and SAMUEL WALD, New York, N. Y. Filed May 27, 1922. Serial No. 564,046. 1 Claim. (Cl. 24—121.)



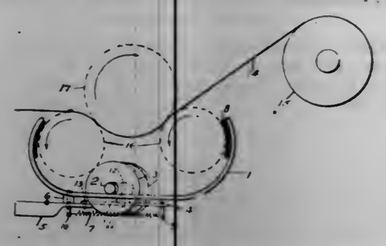
A shoe-lace holder comprising a substantially U-shaped member of resilient metal adapted to receive the edge of the foot opening of a shoe, integral prongs formed on the opposite side edges of one of the legs of said U-shaped member for engagement with the shoe upper to prevent rocking movement of the holder relative to the shoe upper, and a resilient clasp secured to said U-shaped members and adapted to receive the loops of the knot of the lace of the shoe, said clasp being open in the same direction as the U-shaped member.

1,451,989. FOLDING VENEER CONTAINER. WILLIAM E. LA BELLE, St. Paul, Minn., assignor of one-half to Theophilus Schadegg, Minneapolis, Minn. Filed July 3, 1920. Serial No. 393,928. 6 Claims. (Cl. 217—12.)



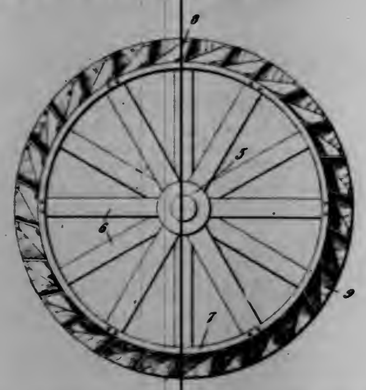
1. An article of manufacture comprising four flat rectangular members, reinforcing means at the top and bottom thereof, said members arranged side by side in substantially the same plane, flexible straps connecting the said means and members in spaced relation and extending across the intervening spaces therebetween, flexible straps attached to the outside edge of one end member and adapted to be secured to the outside edge of the other end member when said sides are folded to produce a square enclosure, and means on said members forming a groove and adapted to receive an end inclosing member when said members are folded to produce a square container.

1,451,990. ROLL CLEANER. FRANK LA CHAPELLE, Pittsfield, Mass. Filed Dec. 12, 1921. Serial No. 521,962. 3 Claims. (Cl. 19—139.)



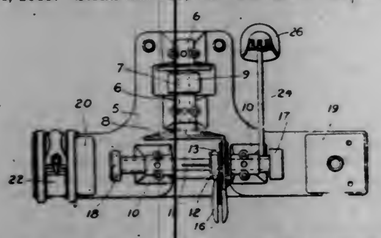
1. In a device of the class described the combination with a base, brushes attached to the base, contact wheels axially and pivotally mounted on the base, actuating levers pivotally connected to the base and to the contact wheel axle, a spring connected to said levers to control and actuate said levers and contact wheels.

1,451,991. DRIVE-WHEEL RIM. RALSTON T. LEE, Marietta, Ohio. Filed Feb. 14, 1922. Serial No. 536,475. 1 Claim. (Cl. 301—43.)



In a wheel construction, a hub, spokes radiating from the hub, a rim curved transversely to provide inclined surfaces, cleats having right angled flanges and disposed at angles with respect to the side edges of the rim, said cleats having their upper edges disposed in transverse planes above the apex of the rim.

1,451,992. TEST BENCH. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 24, 1919. Serial No. 340,366. 2 Claims. (Cl. 73—51.)



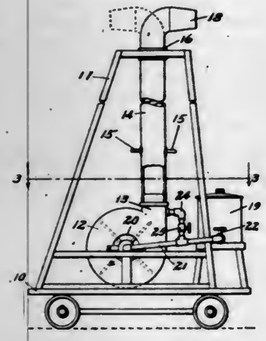
1. A test-bench comprising: a frame provided with two base-members, each adapted to support a dynamo-electric machine, and with two bearings for a drive-shaft; a horizontal drive-shaft rotatable in said bearings and with its ends located adjacent to but above said base-members; coupling-members on the ends of the drive-shaft; a friction-wheel carried by the drive-shaft, between said bearings, and rotatable with but slidable upon the drive-shaft; and a frictional power-member rotatable in contact with said friction-wheel.

1,451,993. ROTARY TOOTHBRUSH. CHARLES McLELLAN, Sioux City, Iowa. Filed Dec. 27, 1920. Serial No. 433,289. 4 Claims. (Cl. 15—25.)



2. A rotary tooth brush comprising a flexible driving shaft, a longitudinally curved rigid sleeve surrounding the forward end of said shaft and imparting a permanent curved shape thereto, whereby to permit easy and effective insertion of this end of the brush into the mouth, a brush guard carried by and extending forwardly of the shaft and curved on a line in continuation of the shaft, and a brush connected to the forward end of the shaft beneath said guard.

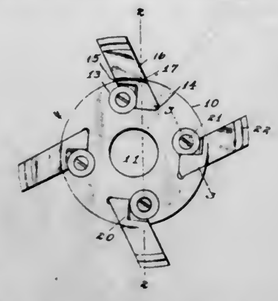
1,451,994. DEVICE FOR PREVENTING FROST IN ORCHARDS. DANIEL MACKENZIE, Pomona, Calif. Filed July 7, 1921. Serial No. 482,972. 5 Claims. (Cl. 126—59.5.)



1. A device for preventing frosts in orchards comprising a fan blower including a casing having a peripheral outlet and an opening in one side thereof at the axis of the casing, a burner arranged exteriorly of the casing and adjacent said opening, a distributing pipe connected to the outlet, a fuel supply tank in communication with the burner, and an air supply pipe communicating with the casing adjacent the outlet and connected between the burner and said tank.

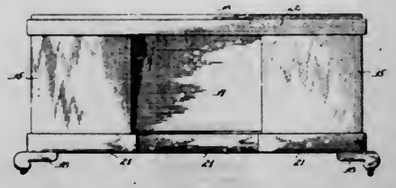
1,451,995. CUTTING DEVICE FOR WOODWORKING TOOLS. SERN MADSEN, Clinton, Iowa. Filed Dec. 11, 1922. Serial No. 606,280. 3 Claims. (Cl. 144—230.)

1. In a device of the class described, a cutter head adapted to rotate and provided with a series of slots parallel with its axis of rotation, a bit for each of said slots, each provided with oppositely arranged inclined faces, a rotatively mounted wedge device for each of said inclined faces, and means for drawing said wedge devices



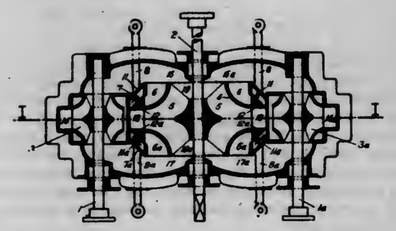
toward each other and longitudinally with the axis of said head member to lock the said bits in position, said bits being capable of adjustment axially.

1,451,996. COMBINED PIANO BENCH AND MUSIC CABINET. GEORGE H. MERKEL, Bluefield, W. Va. Filed June 6, 1922. Serial No. 566,258. 8 Claims. (Cl. 155—90.)



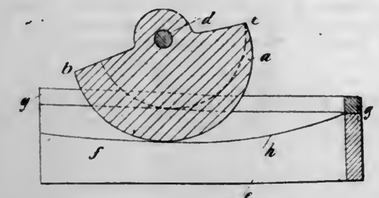
1. A combined piano-bench and music cabinet comprising spaced apart box-like end portions forming compartments, a rectangular top frame connecting said end portions, an adjustable seat section within the frame intermediate the upper ends of the compartments, and lids for the compartments hinged within the top frame above said compartments and normally forming portions of the seat of the bench.

1,451,997. HYDRAULIC MECHANISM FOR THE TRANSMISSION OF POWER. ANTHONY G. M. MICHELL, Melbourne, Victoria, Australia. Filed Jan. 5, 1921. Serial No. 435,168. 4 Claims. (Cl. 60—54.)



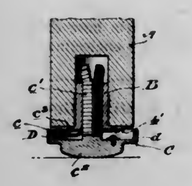
1. In hydraulic transmission gear of the type described, a turbine element comprising a rotor divided into separate axially adjacent compartments and an axially movable control gate adapted to admit the motive fluid alternatively either radially into one of said compartments of the rotor or to deflect it axially into another adjacent compartment for the purpose described.

1,451,998. PROCESS OF AND DEVICE FOR DRAWING BELLIED OBJECTS OF SHEET METAL. CURT NEUBAUER, Mecklenburg, Germany. Filed Sept. 17, 1921. Serial No. 501,417. 6 Claims. (Cl. 113—49.)



1. A process for drawing bellied sheet metal articles, consecutive sections of which, in the drawing direction, differ in shape from one another, comprising the steps of drawing a metal sheet between a rotary drawing tool and a synchronously-moved coacting counter-mould, while imparting to the sheet a progressive forward bodily movement in the direction of its length and relative to the axis of the drawing tool, so as cause said tool to act progressively upon the sheet from end to end thereof, and maintaining the distance between the tool axis and the plane of the mould constant during the entire movement of the sheet; substantially as described.

1,451,999. FURNITURE-LEVELING DEVICE. GEORGE R. PERRY, Washington, D. C. Filed Jan. 31, 1921. Serial No. 441,218. 8 Claims. (Cl. 46—13.)



1. A furniture leveler of the character described, comprising an interiorly threaded socket member, a member carrying a screw partially split at its free end inserted in said socket; said member being revoluble and having a roughened surface adapted to contact with the sole of the shoe of a person standing beside or sitting at a table or on an article to which the leveler is attached, and a spring for automatically engaging and holding said revoluble member stationary, said spring being releasable by pressure tending to rotate said revoluble member.

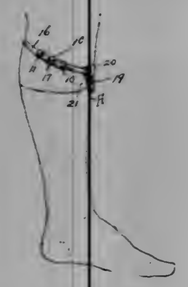
1,452,000. DISJOINTING DEVICE FOR AUTOMATIC PISTOLS. NICOLAS PIEPER, Liege, Belgium. Filed Feb. 7, 1921. Serial No. 443,154. 3 Claims. (Cl. 42—3.)



1. An automatic pistol comprising in combination a stock member having an undercut recess longitudinally

thereof and an enlarged opening at the rear end of the recess, a slide member having a shoulder slidable in the recess, a recovering spring normally holding the shoulder forward in the recess, and a normally inoperative latch on the stock member and behind said opening, said latch being adapted to be operated to restrain the spring in compressed position to permit the shoulder to be withdrawn from the recess through the opening.

1,452,001. GARTER. MITCHELL D. PRICE, Miami, Fla. Filed July 28, 1921. Serial No. 488,063. 4 Claims. (Cl. 241—6.)



1. A garter of the class described comprising a pad, a separate limb encircling member, guides carried by said pad and engaging said limb encircling member, means for adjustably securing the ends of said limb encircling member upon said pad and a hose engaging member slidably mounted on said limb encircling member.

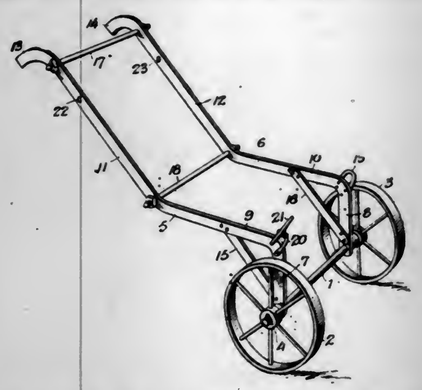
1,452,002. SAFETY RAZOR. GUSTAF ADOLF REITER, San Diego, Calif. Filed Feb. 21, 1922. Serial No. 538,228. 2 Claims. (Cl. 30—12.)



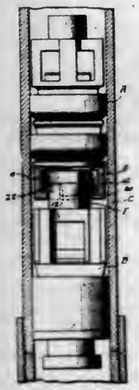
1. In a device of the class described, a blade retainer provided with a central threaded boss, a blade positioned on said blade retainer, a hollow internally threaded ball member engaging said threaded boss a hollow handle provided at one end with a bifurcated portion having an internal spherically shaped recess adapted to receive said ball member and provided at its other end with an internally threaded portion and a long friction screw adapted to engage said ball member with one end and provided near its other end with an externally threaded portion and an enlarged grip portion at said other end for locking said handle and said ball member relatively to each other.

1,452,003. IMPLEMENT SUPPORT AND CARRIAGE. DE SOTO E. RICHARDSON, Riverside, Wash. Filed Apr. 18, 1922. Serial No. 555,010. 3 Claims. (Cl. 280—49.)

1. An implement support and carriage comprising an axle having carrying wheels mounted thereon, a pair of side supporting members connected with the axle adjacent its ends each formed to present vertical portions adjacent the axle with horizontal portions at the top thereof and inclined portions extending from the horizontal portions, said side members terminating in handles, and cross bars connected between the side members.



1,452,004. VALVE COUPLING FOR TUBULAR WELLS. CLINTON L. SAVIDGE, Callaway, Nebr. Filed Nov. 8, 1921. Serial No. 513,801. 1 Claim. (Cl. 103—180.)

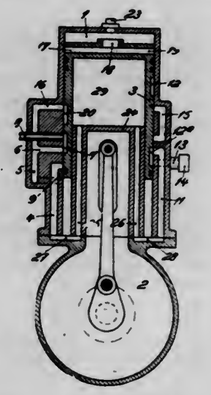


The combination with an upper working valve, a lower standing valve, of means for permitting the detachable connection thereof including a depending sleeve carried by the upper operating valve, the sleeve having inwardly extending diametrically opposed guide slots formed in the walls thereof, and oppositely disposed circumferentially extending locking slots communicating with the upper ends of the guide slots, said sleeve also having formed therein downwardly extending locking notches at the terminals of the locking slots arranged in parallel relation to the guide slots, an upwardly extending hollow and internally threaded stud formed on the standing valve, radially extending lugs formed on the stud for engaging in said guide slots, the locking slots and notches, the side and end walls of the guard slots being inclined to provide a guide surface for said lugs.

1,452,005. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. VICTOR SPUHLER, Zug, Switzerland. Filed Aug. 30, 1920. Serial No. 406,990. 2 Claims. (Cl. 123—74.)

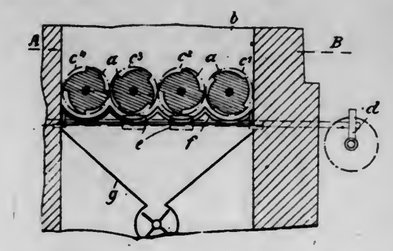
1. An internal combustion engine comprising a cylinder open at one end and having exhaust ports, an air inlet and a mixture inlet at points intermediate its ends, and

further provided with a bypass, a port leading to said bypass, a second bypass and passages, said passages communicating with the interior of said cylinder at points spaced from its ends, an inner cylinder in the first-named cylinder extending to and also open at the open end thereof and having longitudinal passages open at its closed end and respectively communicating with the passages of the first named cylinder, and a hollow cylindrical piston having a closed end arranged for movement between the heads of the said cylinders and a cylindrical wall arranged for movement in the annular space between the said cylinders, said piston having a transverse passage to communicate



with the bypass of the first named cylinder at the end of an outstroke, a port leading from said transverse passage to the interior of the first named cylinder, and also having chambers to communicate with said first named bypass and port of the first named cylinder, and a channel to communicate with the second bypass and one of the passages thereof at the end of an instroke, and said piston also having a channel to establish communication between the last named bypass and the last named passage of said first named cylinder at the end of an outstroke.

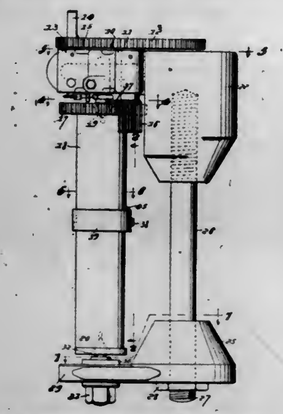
1,452,006. GRATE FOR SHAFT FURNACES. HARRY STEHMANN, Berlin-Hohenschonhausen, Germany. Filed Aug. 1, 1919. Serial No. 314,786. 7 Claims. (Cl. 222—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L. 1313.)



1. The combination with a kiln shaft, of a series of continuously rotating co-operating clinker-removing crushing rolls extending over the whole cross sectional area of the kiln, and supporting the kiln charge.

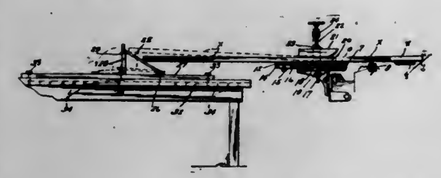
1,452,007. BORING MACHINE. EUGENE S. TOWNS, Austin, Tex. Filed July 19, 1921. Serial No. 485,837. 4 Claims. (Cl. 77—2.)

1. In a machine for boring cylinders, a pair of conical heads which are adapted to be positively connected and held in engagement with opposite ends of a cylinder, laterally extending members carried by the heads, laterally adjustable center pin carriers maintained by the laterally extending members of the heads, a tool mounting engaged



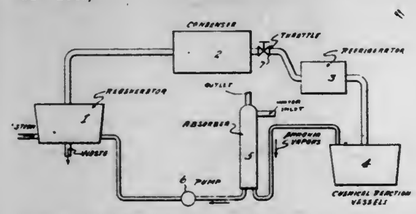
by pins which are supported by the pin carriers, and means for rotating the tool mounting associated with one of the heads.

1,452,008. ATTACHMENT FOR WOODWORKING MACHINES. STANLEY VOLKMAN, Minneapolis, Minn. Filed July 29, 1922. Serial No. 578,455. 14 Claims. (Cl. 144—137.)



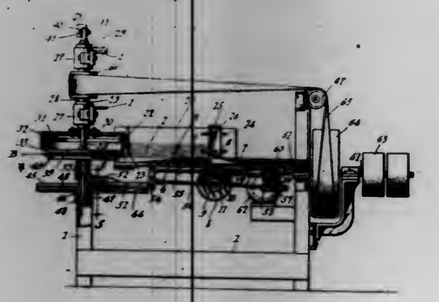
1. The combination with a cutter head, of a tilting table, and means arranged to be engaged by the work on the table to tilt the same and thereby feed a greater portion of the work to the cutter head and which means is thereafter rendered inoperative by the work in a predetermined position thereof.

1,452,009. PROCESS FOR UTILIZATION OF AMMONIA. JUSTIN F. WAIT, New York, N. Y. Filed May 25, 1920. Serial No. 384,097. 7 Claims. (Cl. 62—170.)



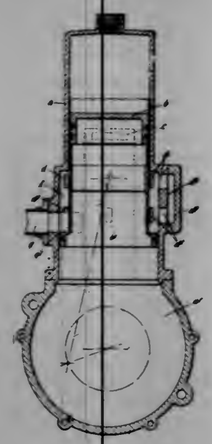
1. The process of utilizing ammonia resulting from a chemical reaction in which free ammonia is released at low pressure, comprising absorbing the ammonia released in water or suitable solvent, heating the solution formed and thus driving off ammonia vapors, cooling the vapors at high pressure thus formed under pressure sufficiently to liquefy the ammonia, passing the liquid ammonia into a system of lower pressure and allowing it to evaporate, thus causing a refrigerating effect, and subsequently using the ammonia in the chemical reaction.

1,452,010. MACHINE FOR MAKING BARREL HEADS. JOSEPH L. WALKER, Baton Rouge, La., assignor to The K-D Barrel & Hamper Co., Baton Rouge, La. Filed Dec. 19, 1922. Serial No. 607,827. 7 Claims. (Cl. 147—37.)



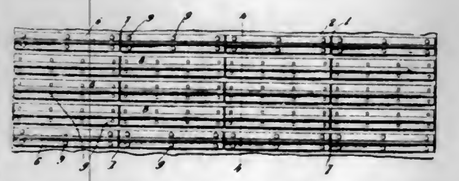
1. The combination with cutting means, of means for feeding a blank thereto including a slidable member, a lifting cam, means for sliding the cam back and forth, and means cooperating with the cam during the movement of the cam in one direction, for successively raising and releasing the slidable member, and, during the movement of the cam in the opposite direction, for leaving the slidable member undisturbed.

1,452,011. INTERNAL-COMBUSTION ENGINE. HAROLD EDWIN WATTON, Birmingham, England, assignor, by direct and mesne assignments, to Dunford & Elliott (Sheffield) Limited, Attercliffe, Sheffield, England. Filed Sept. 27, 1920. Serial No. 413,193. 2 Claims. (Cl. 123—73.)



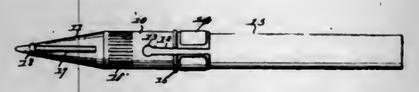
1. An internal combustion engine working on the two stroke principle, consisting in the combination of a stepped piston, a cylinder in which said piston works, an induction pipe communicating with a valveless inlet port situated in the wall of the cylinder in such position that the combustible charge is admitted to the crankcase while but not before the piston is completing its instroke, means external to the cylinder for leading the combustible charge from the crank case to the combustion space of the cylinder and means whereby the volume of the combustible charge which becomes trapped in the upper part of the annular space existing between the larger portion of the cylinder and the smaller diameter of the piston is transferred to the crank case as the piston is completing its instroke and during the admission of the combustible charge into the crank case through said valveless inlet port.

1,452,012. COAL TRIMMER. GEORGE FRANK WIESECKEL, Hagerstown, Md., assignor to Western Maryland Railway Company, a Corporation of Maryland and Pennsylvania. Filed Aug. 29, 1921. Serial No. 496,566. 4 Claims. (Cl. 198—199.)



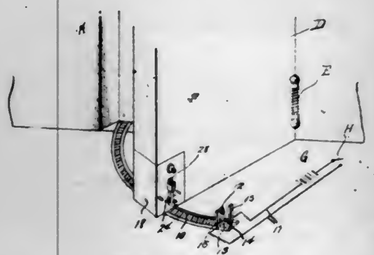
1. A belt for trimming coal having strips of armor arranged laterally thereof, said strips including a member of inverted T-shape, having a doubled upright portion separated at its base and capable of relative movement as the belt passes over a pulley.

1,452,013. COMBINED PENCIL SHARPENER AND GUARD. FRANK WILLIAMS, Hot Springs, S. Dak. Filed July 12, 1921. Serial No. 484,087. 1 Claim. (Cl. 120—87.)



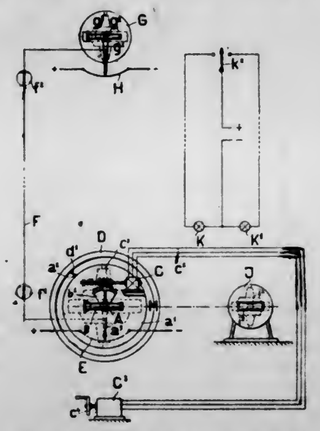
In a combined pencil sharpener and guard, a body having a cylindrical portion with a longitudinally extending slot at the inner end, the said body being tapered toward the outer end and provided with a longitudinally extending slot, the edge of the said slot being shaped to form a cutting blade, a tongue extending from the body on one side of the slot and projecting over the said slot at the outer end of the said body, and means for retaining the body on a pencil.

1,452,014. ELECTRIC LOCK AND DOOR-CONTROL DEVICE. CLINTON L. WOLFE, Brooklyn, and JOSEPH A. FAUROT, New York, N. Y. Filed July 1, 1921. Serial No. 481,764. 7 Claims. (Cl. 70—50.)



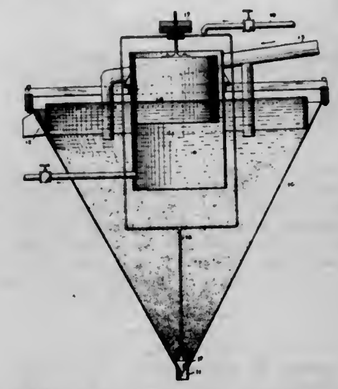
1. An arrangement of the class described for use in connection with a door comprising a casing secured to the door, a releasable hook member mounted upon said casing, means secured to the floor and adapted to engage the releasable hook member when the door is in open position, a pawl carrying member and pawl mounted within said casing, a ratchet secured to the floor and in position to be engaged by said pawl, electric means within said casing for releasing said hook member and said pawl and an electric circuit completed when said door is in open position for supplying current to said electric means.

1,452,015. FIRE-CONTROL APPARATUS ESPECIALLY FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 14, 1920. Serial No. 417,040. 7 Claims. (Cl. 89—41.)



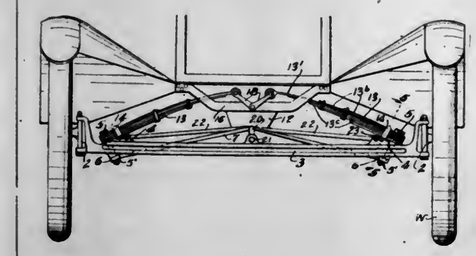
1. A fire control apparatus for naval guns comprising a main gyroscope, a target gyroscope, a sighting device stabilized by said target gyroscope, an auxiliary gyroscope adapted to maintain a determined direction in relation to the ground, electrical indicating means connecting said main gyroscope with said target gyroscope whereby the angular position of said two gyroscopes may be caused to coincide and means carried by said main gyroscope and said auxiliary gyroscope for determining the coincidence of said last two gyroscopes.

1,452,016. SLIME-PULP THICKENER. CHARLES ALLEN, El Paso, Tex. Filed June 9, 1917. Serial No. 173,785. 4 Claims. (Cl. 83—82.)



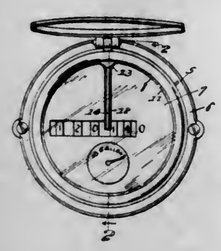
1. A thickener for slime pulp comprising a vessel having a bottom discharge orifice for quickly settling and heavy particles and a rim overflow for slowly settling and light particles, a valve to control said bottom discharge orifice, a float column in operative communication with that portion of the vessel where the said material accumulates, means for admitting fluid of fixed density into said column, and a float in said column operatively connected with the valve in the bottom discharge orifice, whereby an increase in density of such accumulated material—due to settling—will act to raise the column of fluid of fixed density and with it the float for the purpose of opening the valve to permit such accumulated material to be discharged.

1,452,017. SPRING SUSPENSION FOR MOTOR VEHICLES, ETC. GEORGE P. ALLEN, Los Angeles, Calif. Filed Mar. 4, 1920. Serial No. 363,191. 3 Claims. (Cl. 267—36.)



1. A spring suspension for automobile bodies, comprising, in combination with an axle, laminated spring piles secured at butt ends of each to the axle ends and converging above the axle, and divergent shackles attached to the proximate ends of the springs and pivotally connected to the body frame on a common pivot.

1,452,018. CLEANER FOR METER-DIAL GUARDS. MALCOLM O. ALLEN, Newport, Tenn. Filed June 6, 1922. Serial No. 566,347. 5 Claims. (Cl. 235—1.)



1. In a cleaner for meter dial guards, an element adapted to be secured in front of a meter dial, yieldable members thereon for engaging the dial guard in spaced relation to the dial, and a wiper interposed between the guard and dial against which the guard may be pressed and with relation to which it may be rotated for removing deposits from its inner surface.

1,452,019. TONGUE SWITCH AND MATE FOR RAILWAYS. JAMES H. ASSELIN, San Francisco, Calif. Filed Aug. 9, 1922. Serial No. 580,800. 10 Claims. (Cl. 246—442.)

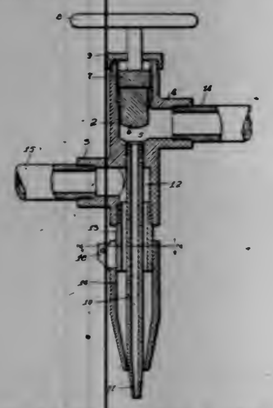
1. The combination with the straight and the curved rail of a switch one of the rails having a continuous ball portion, of a switch casting adapted to be secured to the

side of the rail, which carries the major portion of the traffic, and a switch tongue directly supported by said cast-



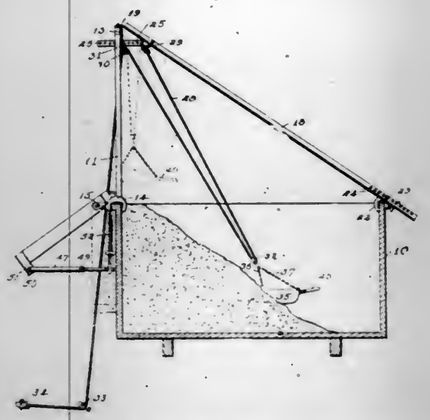
ing, the heel of said tongue aligning with the ball of the rail which carries the minimum portion of the traffic.

1,452,020. OIL BURNER. FRANK J. ATKINS, Davenport, Iowa. Filed June 24, 1919. Serial No. 306,326. 1 Claim. (Cl. 158,—76.)



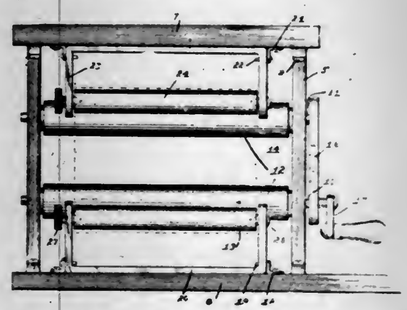
In a burner of the class described, a tubular main body provided with a pair of lateral extensions at opposite sides thereof communicating with its interior, said body having an enlarged chamber at its rear, a valve seated in said chamber, a cap threaded on the valved end of said body, an oil tube extending forwardly and threaded into the burner body and in communication with said chamber, said tube being contracted at its outer end to form a nozzle, said body having an enlarged chamber in front of the connection with the oil tube with the body, said chamber being cut off from communication with the first mentioned chamber and from the tube, a tubular connecting sleeve threaded into the front end of the second mentioned chamber and encircling the oil nozzle tube, the bore of said connecting member being a larger diameter than the tube providing a chamber communicating with the second mentioned chamber, and a tubular air nobble adjustably secured around and encircling the oil nozzle tube, said air nozzle being contracted at its front end adjacent the base or inner end of the contracted portion of the oil nozzle, the air nozzle being adjustably mounted on the sleeve connection whereby the outlet end of the air nozzle will at all times be positioned at the rear of the outer end of the oil nozzle.

1,452,021. UNLOADING DEVICE. GUY O. BAKER, Atlantic, Iowa. Filed Oct. 2[illegible], 1920. Serial No. 418,556. 6 Claims. (Cl. 214—44.)



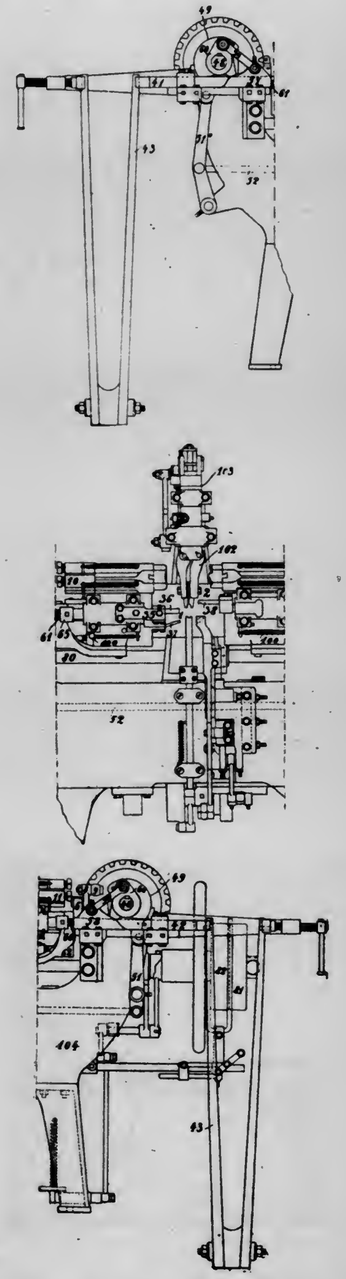
1. In a device of the class described, the combination of a container, an A-shaped frame detachably mounted vertically at one side of the container, a brace bar detachably secured to the apex of said A-frame on the opposite side of said container, a hitch bar, having a series of hitch openings, near the apex of said frame member, an outwardly extending chute detachably hooked to said A-frame, means for adjusting the angle of said chute, and means for folding the said chute to substantially a vertical position adjacent to the outside of said container.

1,452,022. STATION STOP DEVICE. WILLIAM FRANKLIN BARNARD, Marion, Ind. Filed May 1, 1922. Serial No. 557,768. 1 Claim. (Cl. 40—86.)



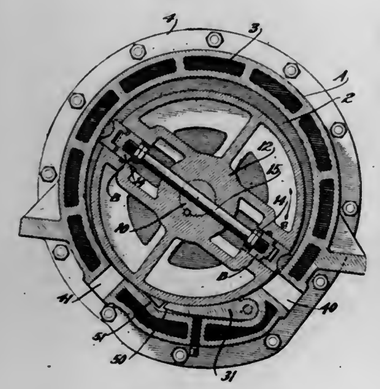
In a device of the class described, a housing comprising side bars, upper and lower walls having connection with the side bars at the ends of the side bars, a rear wall having connection with the upper and lower walls, rollers supported between the side bars, said rollers having shafts extending through the side bars, pulleys on the shafts, a belt moving over the pulleys and communicating motion from one pulley to the adjacent pulley, U-shaped frames, bracket members carried by the upper wall and lower wall, pivot pins supported by the bracket members and extending through the U-shaped frames to pivotally support the frames, rollers supported by the U-shaped frames and adapted to normally engage the first mentioned rollers, a web operating over the pivoted rollers, and coiled springs having connection with the U-shaped frames and having connection with the rear wall to hold the pivoted rollers into engagement with the first mentioned rollers.

1,452,023. DEVICE FOR WELDING CHAIN LINKS, RINGS, AND THE LIKE. FRIEDRICH WILHELM BINDEL, Hamburg, Germany. Filed Nov. 13, 1919. Serial No. 337,832. 10 Claims. (Cl. 59—31.)



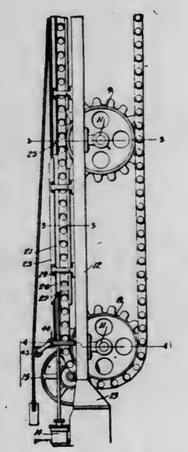
1. A welding mechanism comprising rotary heads, a plurality of die sections movably mounted in said heads, means for longitudinally moving said sections towards a blank to be welded, and means to rotate the heads to successively move the dies into operative relation to the article to be welded.

1,452,024. ROTARY COMPRESSOR. HENRY A. CAMPBELL, Oakland, Calif. Filed Jan. 26, 1921. Serial No. 439,909. 25 Claims. (Cl. 230—30.)



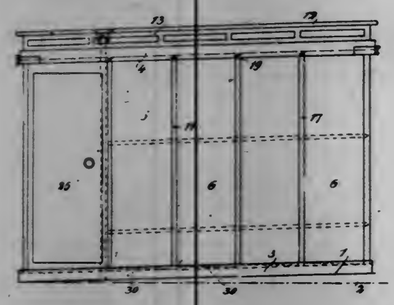
1. In a compressor of the character described a vane comprising a base section, a face section having end portions lying parallel with the ends of the base section, the ends of the face section being recessed, and an auxiliary extensible end section supported in the recess of each end of the face section.

1,452,025. TWO-STROKE DEEP-WELL POWER HEAD. HENRY A. CAMPBELL, Oakland, Calif. Filed Feb. 23, 1921. Serial No. 447,311. 13 Claims. (Cl. 103—200.)



1. A pump power head drive for two stroke pumps comprising a cylinder, a pair of plungers mounted therein, means for imparting reciprocal motion thereto and a flexible means for accelerating the speed of the plungers when traveling in a downward direction.

1,452,026. SHIP'S CABIN. EMIL CASPARY, Berlin, Germany. Filed Dec. 8, 1921. Serial No. 520,976. 5 Claims. (Cl. 114—71.)

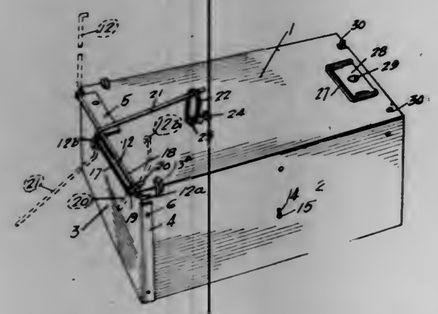


1. A portable ship's cabin comprising a grooved upper frame, a lower frame having a downwardly tapering groove panels fitted between said frames in said grooves and so arranged that one corner of each panel is wedged in the downwardly tapering groove in said lower frame whilst the other corner is loose therein and means for securing the vertical abutting edges of said panels together.

1,452,027. CATALYZER FOR THE SYNTHETIC MANUFACTURE OF AMMONIA AND PROCESS OF PRODUCING SAME. IVAR WALFRID CEDERBERG, Lidingo-Brevik, near Stockholm, Sweden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Oct. 20, 1920. Serial No. 418,319. 7 Claims. (Cl. 23—28.)

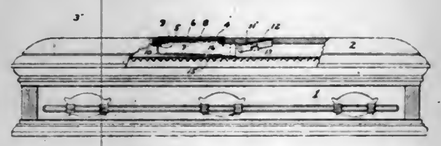
1. Process for the manufacture of ammonia which comprises heating a mixture of hydrogen and nitrogen in the presence of a catalyst, prepared by heating in a non-oxidizing atmosphere a complex cyanogen compound of iron and an alkali metal in which the atomic proportion of the alkali metal to the iron is less than two to one.

1,452,028. GOPHER TRAP. SIDNEY DAVIS, Lankershim, Calif. Filed Aug. 22, 1921. Serial No. 494,075. 5 Claims. (Cl. 43—91.)



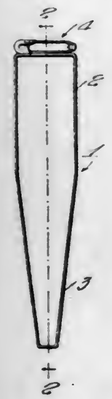
1. A trap having a frame, body engaging members, means for holding said members in set position, adjustable means for releasing said members; said adjustable means comprising a trigger adapted to engage the first mentioned means, a slot in said frame and a plurality of notches in said slot for selectively receiving said trigger.

1,452,029. CONSTRUCTION OF COFFINS. SANFORD HOYT DEUEL, Oakland, Calif. Filed Sept. 30, 1922. Serial No. 591,630. 11 Claims. (Cl. 40—130.)



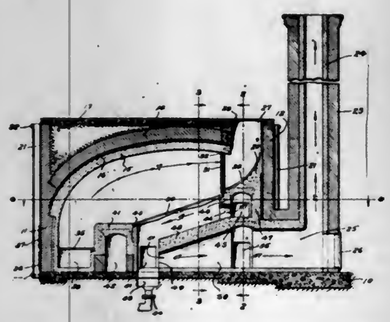
5. In a coffin, a lid, an opening therethrough with a light transmitting design therein, a lining secured to the lid, and a lamp positioned between said lining and said lid arranged to throw light through said design.

1,452,030. BODKIN. MARY CATHERINE RUPPEL DOLPHIN, Bloomfield, Nebr. Filed Sept. 15, 1921. Serial No. 500,810. 1 Claim. (Cl. 223—38.)



A bodkin comprising a body in the form of an elongated one piece wire loop having a relatively wide rear end and a tapered front end, and a safety pin connected to the first named end of the loop and extending transversely with respect to the latter.

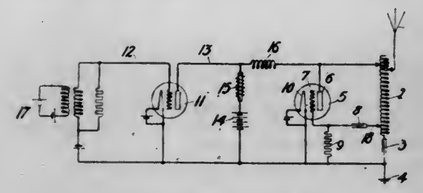
1,452,031. INCINERATOR. HENRY E. ELROD, Dallas, Tex. Filed Apr. 16, 1921. Serial No. 462,062. 6 Claims. (Cl 110—8.)



1. An incinerator of the class described comprising a combustion chamber having a base and front, back and

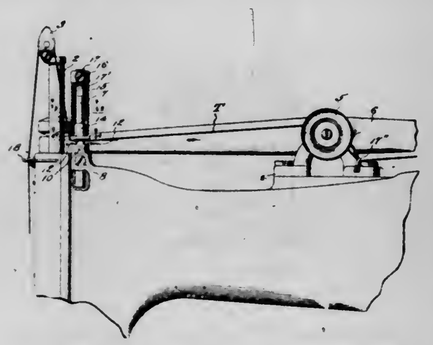
side walls rising from said base, an arch connecting said walls and extending from the front to the rear of said combustion chamber, said combustion chamber being provided with an opening whereby garbage may be introduced therein, fire grates disposed at the front of said combustion chamber, an inclined grate disposed centrally of said combustion chamber and adjacent said fire grates, an inclined table disposed beneath said inclined grate, a smoke stack and a passageway connecting said stack with said combustion chamber, said passageway extending over and under said table and thence to said smoke stack.

1,452,032. OSCILLATION GENERATOR FOR SIGNALING SYSTEMS. JOHN F. FARRINGTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,603. 9 Claims. (Cl. 250—36.)



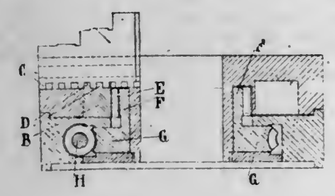
1. In combination, an antenna circuit including a capacity and an inductance, a vacuum tube for generating oscillations in said antenna circuit, an input circuit for said tube, said input circuit being connected across said capacity, and a variable connection to said inductance included in said input circuit for varying the input potential.

1,452,033. THREAD-CONTROLLING DEVICE. ALBERT F. FIFIELD, Newark, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 2, 1920. Serial No. 407,623. 6 Claims. (Cl. 112—218.)



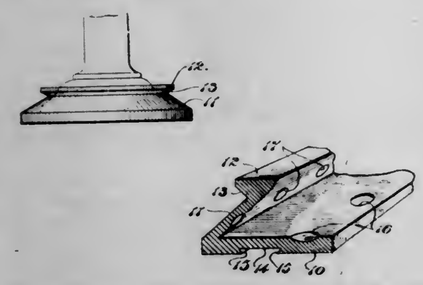
1. In a sewing machine having stitch-forming mechanism including a needle, a tension device, a thread take-up, and a yieldable guide for the thread stronger than the tension device and located between the tension device and the needle, whereby said guide will be unyielding during normal operation of the machine but will yield and give up thread should an abnormal pull be applied to the thread.

1,452,034. CENTERING DEVICE. PAUL FORKARDT, Dusseldorf-Oberkassel, Germany. Filed May 31, 1921. Serial No. 473,720. 3 Claims. (Cl. 279—117.)



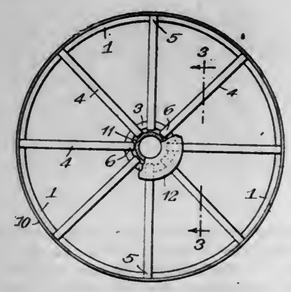
1. In a chuck comprising in combination, a plurality of pairs of crossed racks, the racks of each pair being in gear with one another, means for simultaneously moving one rack of each pair tangentially to a circle lying in the face of the chuck and means for guiding the other racks radially.

1,452,035. SILENCER. HAROLD A. FREEMAN, Los Angeles, Calif. Filed Feb. 1, 1922. Serial No. 533,335. 9 Claims. (Cl. 65—63.)



1. A combined silencer and cushion composed of rubber, the body of said combined silencer and cushion being substantially Z-shaped in cross section and having formed in the under surface of its base a continuous channel to provide anti-slippage shoulders.

1,452,036. WELDED STEEL WHEEL. EDWARD FULDA, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1918. Serial No. 263,801. 1 Claim. (Cl. 301—66.)



A metal wheel comprising a rim of general cylindrical for presenting at the opposite ends of the cylinder an-

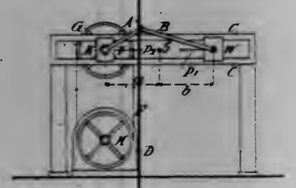
nular edges for side-welding of spokes crossing the same, a hub barrel consisting of a metal cylinder presenting at its opposite ends annular edges for side-welding of spokes thereto, and a plurality of wires or rods forming the spokes and located on each side of the rim and hub, said wires or rods being side welded to the edges of both the rim and the hub barrel, the spokes at the welds being flush with the plane of the edges of the part to which they are joined.

1,452,037. ASPHALT-CUTTING TOOL. WILLIAM J. GLEASNER, Kenmore, N. Y. Filed Sept. 15, 1920. Serial No. 410,536. 9 Claims. (Cl. 262—8.)



1. In a pneumatic asphalt cutter, a pneumatic hammer, a cutter at a point below the barrel engaging the barrel of the hammer, means carried by the casing of the hammer to prevent the cutter from entering the asphalt more than a given depth, means for retaining the cutter in the barrel, means carried by the cutter and cooperating with the barrel to limit the insertion of the cutter in the barrel, and means carried by the barrel and extending below the barrel overlying said limiting means to prevent detachment of the cutter.

1,452,038. MECHANISM FOR CONVERTING ROTARY INTO OSCILLATORY MOTION. RUDOLF GOLDSCHMIDT, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordrup, Charlottenlund, Denmark, a Company of Denmark. Filed May 27, 1921. Serial No. 473,033. 6 Claims. (Cl. 74—14.)



1. Reciprocatory mechanism comprising a slidable, reciprocatory, revoluble driving member, an inertia element adapted to be reciprocated by said revoluble member and crank mechanism whereby the inertia of the inertia element reacts with the revoluble driving member to reciprocate said member, means being provide for utilizing the motion developed for doing external work.

1,452,039. LEAKPROOF LIQUID CONTAINER. JAMES H. GRAVELL, Elkins Park, Pa. Filed Apr. 8, 1920. Serial No. 372,119. 8 Claims. (Cl. 217—8.)

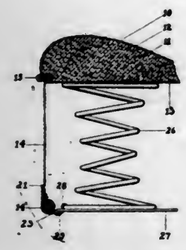


1. A container comprising a rigid casing having an opening, a lining of expansible liquid-tight material having a neck or mouth adapted to be supported in said opening and said lining being inflated by insertion of the contents therein and thereby conformed to the inner shape of the casing and supported thereby.

1,452,040. PAPER SHOT SHELL. JULIAN S. GRAVELY, Wytheville, Va., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Aug. 14, 1922. Serial No. 581,896. 2 Claims. (Cl. 102—16.)

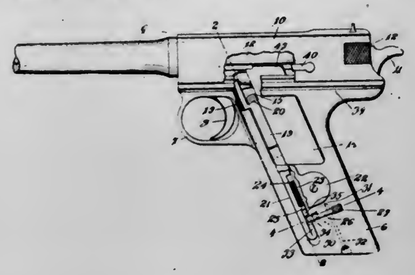
2. As a new article of manufacture, a tube for use in the manufacture of paper shot-shell blanks, the shot-shell tube consisting in a plurality of superimposed coils of paper containing a percentage of solidified latex of the rubber tree and having co-extensive coils of an adhesive interposed between and uniting them.

1,452,041. SEAT SPRING. CHARLES F. GREEN, Defiance, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,990. 5 Claims. (Cl. 155—180.)



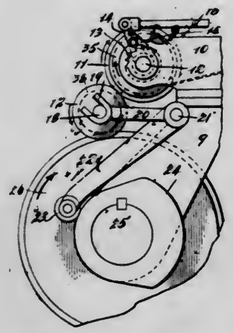
1. In combination with a cushion and a depending skirt therefor, of a spring unit assembly including a plurality of springs and a transverse supporting band therefor, said spring unit enclosed by said skirt, a strip of continuous metal extending around the lower edge of said skirt and provided with inwardly extending means to clamp said strip to said skirt, said strip being also provided with inwardly extending ears having slots therein for receiving portions of said transverse bands of said spring unit, said bands being adapted to be crimped around and clamped to said supporting ears.

1,452,042. MAGAZINE CATCH AND RELEASE FOR FIREARMS. GRANT HAMMOND, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, Mass., and one-third to Frederick G. Crane, Dalton, Mass. Filed Feb. 28, 1918. Serial No. 219,590. 17 Claims. (Cl. 42—7.)



1. A firearm including a frame having a magazine chamber therein and supporting a breech bolt, a magazine to be removably located in said chamber, a power transmitting member normally inactive to move the magazine, means independent of the breech-bolt for imparting activity to said power transmitting member to move the magazine in said chamber and to prevent action of said activity imparting means until the breech-bolt is in its rearward position after the last cartridge has been fired and promptly after extraction of the last shell from the barrel.

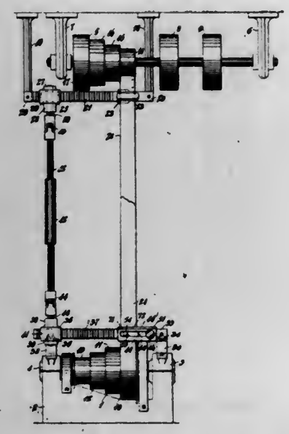
1,452,043. INKING MECHANISM. CHARLES W. HAROLD, Cleveland, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 27, 1919. Serial No. 300,093. 7 Claims. (Cl. 101—363.)



1. In an inking mechanism, an intermittently rotatable fountain roll, an independently rotatable inking drum, said roll and drum rotating at different speeds, a ductor roll movable alternately into contact with said fountain roll and inking drum, and independent coacting means carried by said fountain roll, said inking drum and said ductor roll and directly controlled by the relative position of the ductor roll for driving same from either the fountain roll or the inking drum.

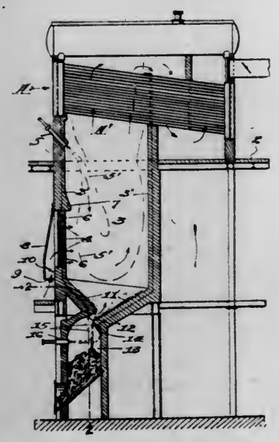
1,452,044. SHIFTER FOR BELTS ON CONE PULLEYS. GEORGE J. HAUSMAN and ALBERT J. JONES, Cincinnati, Ohio. Filed July 22, 1920. Serial No. 398,121. 15 Claims. (Cl. 64—4.)

1. In a bell-shifter, two belt-shifting members, means supporting said members and guiding said members in belt-shifting direction, elements operatively connected to the respective members, one element slidably overlapping the other in belt-shifting direction, one element having engaging means spaced apart in belt-shifting direction, and the other element having a projection between said



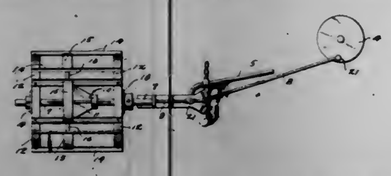
engaging means, a handle slidable on one of said elements in belt-shifting direction, and means whereby said handle may be non-slidably connected to either-one of said elements.

1,452,045. APPARATUS FOR FURNACE-SLAG DISPOSAL. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Jan. 15, 1921. Serial No. 437,615. 3 Claims. (Cl. 110—28.)



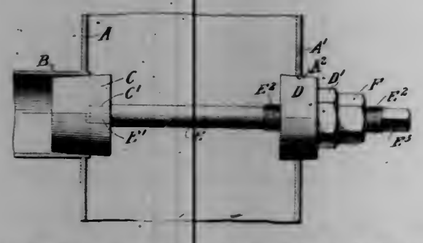
3. The improvements herein described comprising a combustion chamber wherein fuel ash is slagged, and having a slag drain hole in combination with separate heating means for heating the margins of the slag hole, substantially as and for the purpose specified.

1,452,046. COTTON-CHOPPING MACHINE. REEVES HENRY, Forney, Tex. Filed June 30, 1921. Serial No. 481,637. 4 Claims. (Cl. 97—22.)



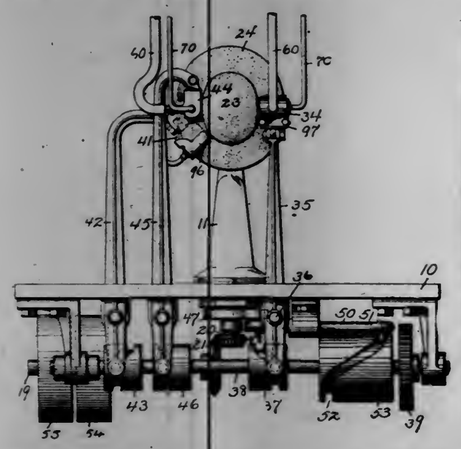
1. In a cotton chopping machine, a hollow slotted shaft, acting as guide for piston attached to a double flanged cross head.

1,452,047. SAFETY PLUG FOR WATER-TUBE BOILERS. RAYMOND HODGSON, Freeport, N. Y. Filed Oct. 28, 1920. Serial No. 420,091. 1 Claim. (Cl. 137—76.)



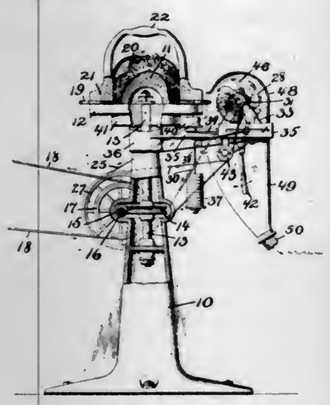
A device for plugging the water tubes of water tube boilers having in combination a conical plug adapted to enter and close the end of a tube, a hand hole stopper adapted to close a hand hole on the inner side of the header, said closing means having an angularly faced wrench engaging extension formed on a portion extending through the hand hole and a central threaded perforation and a threaded rod adapted to screw through the perforation in the closing means and abut against the tube plug.

1,452,048. HAT-CLIPPING MACHINE. FERDINAND E. KAUFFMANN, Rahway, N. J. Filed Nov. 6, 1920. Serial No. 422,205. 12 Claims. (Cl. 223—30.)



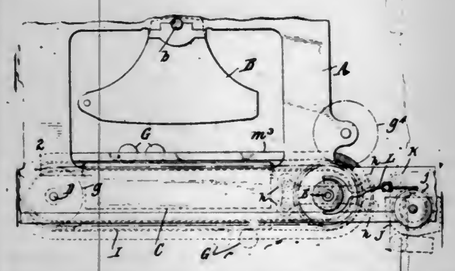
1. A hat clipping machine comprising a hat support including a block to hold a hat with its crown taut and shaped, a clipping device, and means for moving the parts so that the clipping device traverses the entire crown of the hat.

1,452,049. MACHINE FOR FINISHING THE EDGES OF HAT BRIMS. FERDINAND E. KAUFFMANN, Rahway, N. J. Filed Dec. 31, 1920. Serial No. 434,234. 7 Claims. (Cl. 223—24.)



1. A machine for finishing the edges of the brims of velour hats comprising a hat holding means including a support for the hat brim, a brushing mechanism to brush across the edge of the brim, and means for causing the brushing mechanism to successively engage adjacent portions of the hat brim.

1,452,050. INKING MECHANISM FOR PRINTING PRESSES. CARL A. KELLOGG, Brooklyn, N. Y. Filed Mar. 26, 1919. Serial No. 285,338. 28 Claims. (Cl. 101—341.)

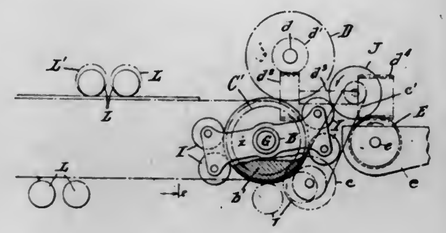


1. In a printing press, a form bed, in combination with inking mechanism embodying an ink supply, an inking surface separate from and independent of the form bed, a distributor roller co-operating with said surface, means for rotating said distributor roller to traverse said surface while in engagement therewith, and a ductor roller movable between the ink supply and the inking surface.

1,452,051. INKING MECHANISM FOR PRINTING PRESSES. CARL A. KELLOGG, Brooklyn, N. Y. Filed Mar. 26, 1919. Serial No. 285,340. 27 Claims. (Cl. 101—341.)

1. Inking mechanism for printing presses embodying an ink supply, a curved ink surface, a distributor roller bodily rotatable about the center of curvature of the ink

surface and adapted to take ink from the ink supply and feed it directly to the surface, and to distribute the ink



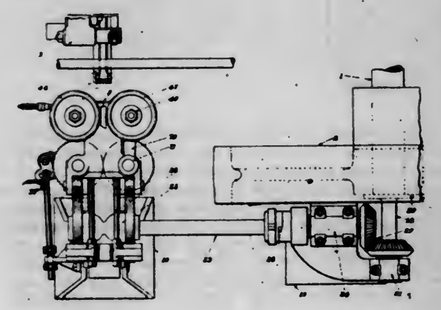
on said surface, an endless chain a form roller mounted on the chain and operated thereby to traverse the ink surface and be charged therefrom.

1,452,052. DETACHABLE BUTTON. CHARLES R. NALLE, Richmond, Va. Filed Feb. 14, 1922. Serial No. 536,448. 4 Claims. (Cl. 24—90.)



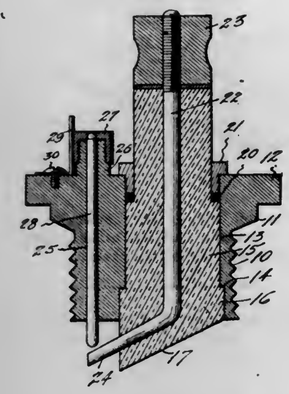
1. In a detachable button, a frusto-conical shell having an opening in its reduced end and being interiorly enlarged for receiving a portion of the fabric to which it is to be attached, and a fastening element including resilient prongs for inserting the fabric in said opening and frictionally engaging the same within said shell, thereby securing the latter to the fabric.

1,452,053. SELF-FEEDING MACHINE AND METHOD. WILLIAM B. PEIRCE, North Tonawanda, N. Y. Filed Apr. 24, 1920. Serial No. 376,259. 73 Claims. (Cl. 10—79.)



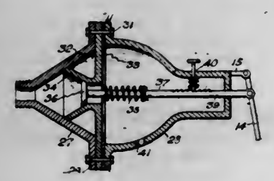
1. In a feed mechanism for feeding a stock bar to a machine adapted to cut a blank of uniform size from the end of said stock bar, the combination of a carriage mounting the stock bar, means for moving said carriage with the stock bar out of the path of the blank cut therefrom, means to then feed the carriage back to the original position and means to feed the stock bar forwardly upon the carriage into position for formation of the next blank.

1,452,054. SPARK PLUG. CHRISTY A. PROPST, Longview, Tex. Filed Feb. 18, 1921. Serial No. 446,105. 2 Claims. (Cl. 123—169.)



1. In a cleanable spark plug, the combination of a barrel, an insulating member eccentrically mounted in the barrel, a stationary electrode embedded in the member and having its lower end projecting from said member and exposed, and a removable electrode eccentrically mounted in the barrel and overhanging the projecting end of the stationary electrode, an adjusting device connected with the removable electrode and mounted on top of the barrel, and an adjusting gauge co-operating with the adjusting means.

1,452,055. VALVE FOR AIR-BRAKE SAFETY APPLIANCES. HENRY C. STOKES, Sumter, S. C. Original application filed Sept. 29, 1920, Serial No. 413,508. Divided and this application filed May 20, 1921. Serial No. 471,032. 8 Claims. (Cl. 251—156.)



1. A valve adapted to be connected with the train pipe of an air brake system comprising a two part casing, a valve seat mounted between the parts of the casing, a valve for cooperating with said seat, a spring pressed reciprocating actuating rod for supporting the valve in its seat and extending through the outer casing member, a ratchet along said rod, a spring pressed pawl cooperating with said ratchet for holding said valve open when said rod has been actuated, and a handle on said pawl for releasing it and allowing the valve to close.

1,452,056. EXHAUST MUFFLER. CHARLES G. STOCKTON, Ocean Grove, N. J. Filed June 21, 1922. Serial No. 569,867. 4 Claims. (Cl. 137—160.)

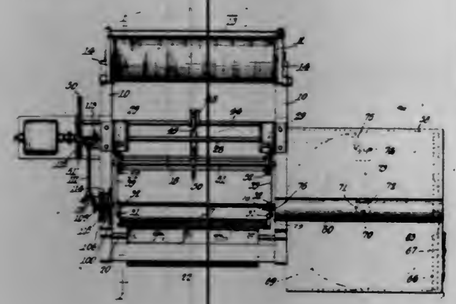
3. A muffler comprising a tubular casing, partitions in said casing dividing the chamber thereof into longitudinal passages two of which are inlet passages and two outlet

passages, a series of transverse compound Venturi tubes leading from the inlet passages to the outlet passages,



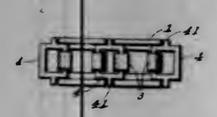
and end plates one closing the outlet passages at the inlet end of the casing and the other closing the inlet passages at the outlet end of the casing.

1,452,057. LOOM. JOSEPH C. UPTON, Pelzer, S. C. Filed Feb. 4, 1922. Serial No. 534,080. 8 Claims. (Cl. 139—20.)



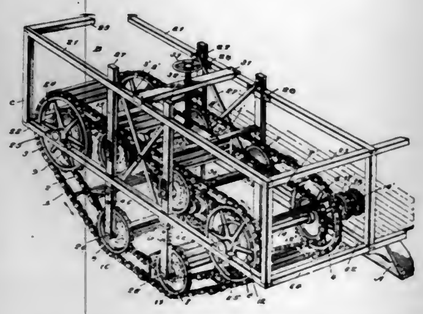
1. In a loom of the character described, means for supporting and advancing the warp leaves, heddles for shifting the leaves, a needle for carrying a plural strand filling yarn transversely between the leaves, means for twisting the strands of each filling together between the warp leaves, means for locking each filling to one edge of the fabric, and a reed to beat up the twisted filling.

1,452,058. BOX-LINK CHAIN. WARREN E. WILLIS, North Attleboro, Mass., assignor to Wallace G. Franklin, Clarence W. Fisher, and Elton B. Fisher, Copartners doing business as E. I. Franklin & Co., North Attleboro, Mass. Filed May 27, 1922. Serial No. 564,157. 1 Claim. (Cl. 59—80.)



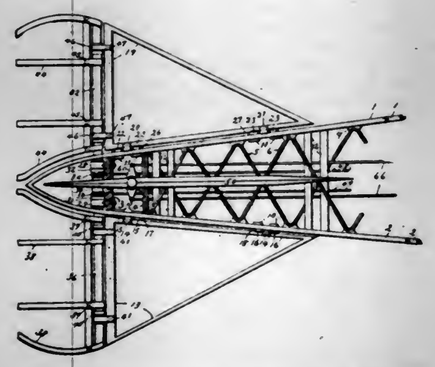
A box-link chain, made up of a multiplicity of open ended boxes carrying a jewel socket to one side of the box and a hook at each end of the box, bent toward the other; an endless connecting link between opposed hooks upon adjacent box links, having spacing pins projecting from the sides of the links between the opposed ends of the sides of the several box links and lying in line with the bottom of the jewel socket adjacent thereto.

1,452,059. BOAT-PROPELLING MEANS. CARL J. BAER, St. Louis, Mo. Filed July 3, 1922. Serial No. 572,748. 22 Claims. (Cl. 115—63.)



1. The combination with a boat, of propelling means therefor comprising endless flexible elements mounted to travel longitudinally of the boat and two slidably connected water-impact members of foraminated material carried by said elements.

1,452,060. RUDDER AND ELEVATOR ASSEMBLY FOR AEROPLANES. OSMOND THERON BELCHER, Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company, a Corporation of California. Filed Feb. 21, 1922. Serial No. 538,280. 5 Claims. (Cl. 244—29.)

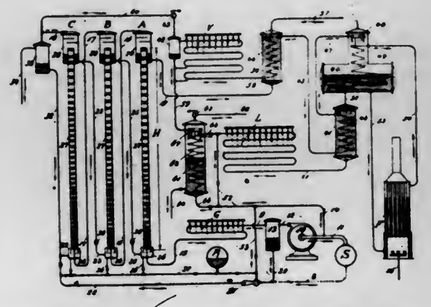


1. In a rudder and elevator assembly, in combination a fin adapted to be removably fixed to a fuselage framework, a casing rotatably mounted within the tail of the fuselage rearward of and in alignment with the fin, a second casing removably fixed to the first mentioned casing and adapted to rotate therewith and extending outwardly along the rear edge of said fin, bearings rotatably connecting the fin with the casing second above mentioned and a control surface mounted upon said second mentioned casing and extending backwardly therefrom.

1,452,061. GAS EXPANSION AND ABSORPTION PROCESS AND APPARATUS THEREFOR. JOHN C. BERTSCH, Tulsa, Okla. Filed Oct. 21, 1920, Serial No. 418,569. Renewed Sept. 9, 1922. Serial No. 587,231. 12 Claims. (Cl. 252.)

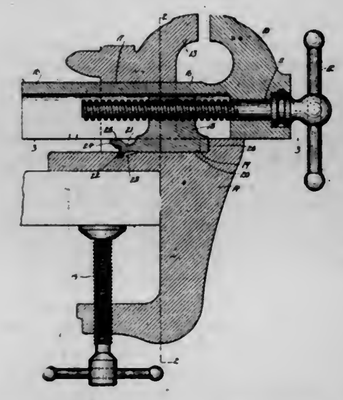
1. The absorption process which consists in mixing a gas and a liquid and putting the mixture under pressure; expanding the gas of said mixture in the act of

elevating its liquid and saturating it with the vapor contained in the gas; mechanically separating the ex-



panded gas from the saturated liquid and from the latter the vapor by heat; liquefying said vapor and cooling the denuded liquid, and mixing the latter again with gas.

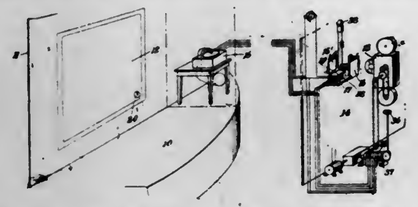
1,452,062. BENCH VISE. LUCIEN P. BLOT, Southington, Conn., assignor to The Peck, Stow & Wilcox Co., Southington, Conn., a Corporation. Filed Aug. 14, 1922. Serial No. 581,564. 5 Claims. (Cl. 81—17.)



1. A bench-vise having a frame, an abutment in fixed relation thereto, a fixed jaw, a movable jaw, an operating-screw, a nut for the said screw provided with an integral, flexible locking-member adapted to be engaged with and dis-engaged from the said abutment, whereby the said nut is anchored in place against longitudinal displacement, and means for preventing the vertical displacement of the nut.

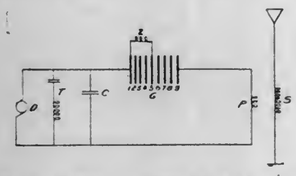
1,452,063. ART OF SYNCHRONOUS OPERATION OF ENTERTAINMENT APPARATUS. WILLIAM H. BRISTOL, Waterbury, Conn. Filed Apr. 22, 1920. Serial No. 375,724. 4 Claims. (Cl. 88—16.2.)

3. In the synchronous operation of a motion picture projector with other entertainment apparatus: the method of maintaining synchronism between same, which consists in projecting with the picture a representation of a pair of indicator members correspondingly to the movement of the picture, said indicator members simulating a uniform rotary movement, the movement of the two members differing to effect coincidence at predetermined intervals, imparting from the other entertainment apparatus to a further pair of indicators a similar



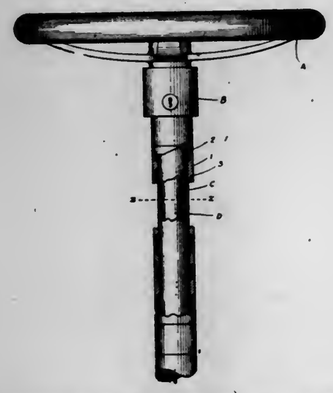
movement, initially registering the corresponding coincidences of the respective pairs, and conforming same in the event of a displacement therebetween.

1,452,064. RADIOTRANSMITTER. VANNEVAR BUSH, Chelsea, Mass., assignor to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed Nov. 22, 1918. Serial No. 263,757. 5 Claims. (Cl. 250—37.)



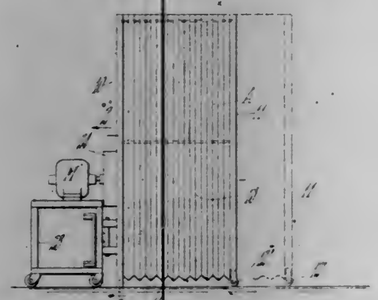
5. A radio transmitter, comprising a primary circuit which includes a generator, a primary condenser, a spark gap of high sparking length compared with the potential of the circuit and consisting of a plurality of unit gaps, and impedance shunted across a portion of the unit gaps to cause the initial breaking down of part of the unit gaps of the series gap and a final breaking down of all of the gaps in the series gap, the impedance having in conjunction with the capactiy of the gap a time constant which is small compared with the audio period of the circuit and large compared with the radio period.

1,452,065. AUTOMOBILE LOCK PROTECTIVE DEVICE. HAROLD AUGUSTIN CALAHAN, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,272. 8 Claims. (Cl. 74—39.)



1. In combination with the steering column of an automotive vehicle, a protective covering disposed around the steering column.

1,452,066. DRYING APPARATUS FOR CLOTHES. HENRY CAVE, Hartford, Conn. Filed Feb. 20, 1920. Serial No. 360,142. 6 Claims. (Cl. 34—19.)



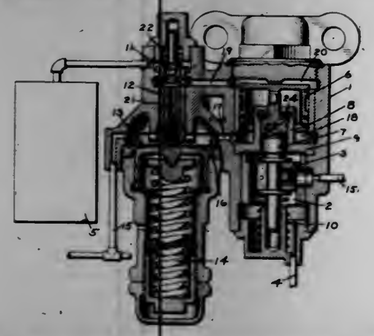
1. In an apparatus of the class described two substantially rigid oppositely positioned walls, other walls connecting the first-named walls to permit one thereof to be moved towards and away from the other, said walls forming a drying chamber of variable cubical contents, a door in one of said first-named walls, and means associated with one of said first-named walls for causing a current of air to be drawn through said drying chamber.

1,452,067. MANICURE BUFFER. NORTON W. CHAPMAN, Guilford, Conn., assignor to The Guilford Mfg. Co., Guilford, Conn., a Corporation. Filed Apr. 13, 1922. Serial No. 552,201. 2 Claims. (Cl. 132—78.)



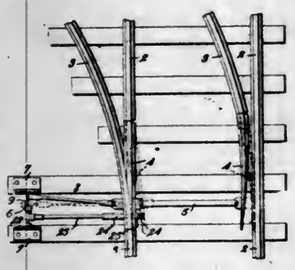
2. A buffer comprising a base and a back, the outer edge of the lower face of the back cut away, whereby a slot is formed between said base and back and a metal spring arranged between the base and back and extending into said slot, the edge of the said spring slitted and rolled.

1,452,068. FEED-VALVE DEVICE. JOHN WILLS CLOUD, London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1922. Serial No. 582,263. 3 Claims. (Cl. 50—11.)



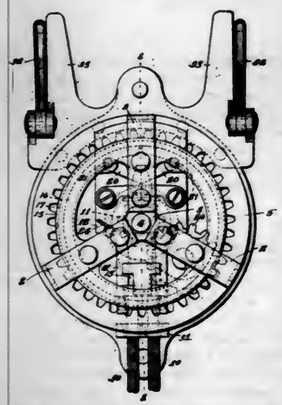
1. A feed valve device comprising a main valve, a piston for operating said valve, and a pilot valve for supplying fluid under pressure to one side of said piston in one position, said pilot valve having means for effecting the equalization of fluid pressures on opposite sides of said piston in another position.

1,452,069. RAILWAY-SWITCH LOCK. PATRICK COMERFORD, Victoria, British Columbia, Canada. Filed Mar. 25, 1922. Serial No. 546,710. 1 Claim. (Cl. 246—402.)



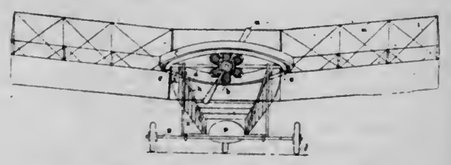
Means for locking a railway switch bar at either limit of its movement, said means comprising a switch-stand, an upright shaft, a reinforcing sleeve for said shaft having bearing in said stand, a forked lever pivoted to said reinforcing sleeve, a sliding sleeve mounted on said reinforcing sleeve, links connecting said lever with said sliding sleeve, a crank, a connecting rod between said crank and the switch bar whereby rotation of said reinforcing sleeve and rod will cause the movements of the switch points, a rocking shaft extending across beneath the rails of the switch, short levers secured on said rocking shaft that may be projected upward by rotation of said rocking shaft to secure the switch bars at either limit of their movement, a crank on said rocking shaft, a strap swivelly secured to said sliding sleeve and a link connecting said strap to said crank on said rocking shaft, whereby raising and lowering said first mentioned lever will rock said rocking shaft, and whereby turning said upright shaft will not effect the connection between said sliding sleeve and said rocking shaft, all being arranged substantially as shown and described.

1,452,070. LOWERING DEVICE. CHARLES F. DAVY, Syracuse, N. Y. Filed Nov. 29, 1918. Serial No. 264,697. 3 Claims. (Cl. 254—157.)



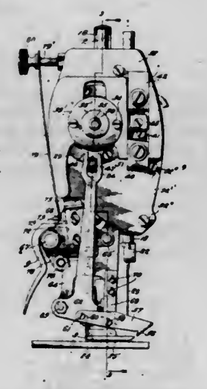
1. A lowering device comprising a frame, a shaft carried by the frame, a carrier rotatable about the shaft, a centrifugal member rotatable with said carrier and arranged astride the shaft, a spring connected at its opposite ends to said member on opposite sides of the shaft and having its intermediate portion arranged to engage the shaft during the outward throw of the centrifugal member, and brake means operated by rotation of the carrier element and the throw of the centrifugal member, substantially as and for the purpose specified.

1,452,071. AEROPLANE ASSURING AUTOMATICALLY THE LATERAL AND LONGITUDINAL STABILITY. JOSEPH DEHOUCK, Thielt, Belgium. Filed Aug. 17, 1921. Serial No. 493,109. 2 Claims. (Cl. 244—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



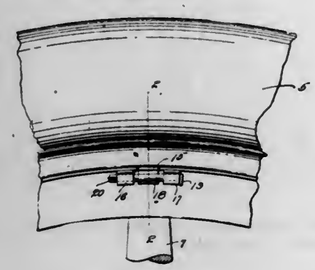
1. In an improved aeroplane having automatic longitudinal and lateral stability, the combination of: a substantially horizontal outer ring carrying the wings; an inner ring having the fuselage secured thereto, mounted concentrically within said outer ring and capable of rotation about a central vertical axis in relation to such outer ring; a pair of diametrally opposed bearings on the underside of said inner ring; and a transverse axle, carrying the propeller shaft rotatably supported in said bearings and having the under-carriage pivotally suspended thereto, said transverse axle extending at right angles to the longitudinal axis and through the centre of gravity of the aeroplane; substantially as described.

1,452,072. FEEDING MECHANISM FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 20, 1920. Serial No. 367,556. 11 Claims. (Cl. 112—212.)



10. In a sewing machine, in combination with the stitching mechanism, cooperating presser and feeding means for the work to be stitched, an auxiliary feeding element adapted to engage the work in advance of the stitching mechanism, operating means therefor comprising an oscillating driving member, a driven member having frictional driving engagement with the driving member, a supporting lever fulcrumed on the frame of the machine and having lost motion connection with the presser element, means pivoted to the supporting lever and connected with the driving element for transmitting movement to the auxiliary feeding element, means connected with the driven member independently of the driving member for transmitting movement from the driven member to the auxiliary feeding element and yielding means acting through the supporting lever to urge the auxiliary feeding element against the work.

1,452,073. AUTOMOBILE RIM. JOSE S. EDWARDS, Helper, Utah. Filed Apr. 14, 1921. Serial No. 461,319. 1 Claim. (Cl. 152—21.)



An automobile tire rim comprising two telescoping sections, one bearing on the other, means for fastening the inner of said sections to the felly of the wheel, means for securing the other section to the wheel comprising keepers, permanently attached at spaced relations to the outer section, angle irons permanently attached to the inner section at spaced relations and a locking bolt passing through said keepers for locking the two sections together to prevent circumferential and lateral movement thereof with respect to each other.

1,452,074. LOOSE-LETTER SIGN AND THE LIKE. THOMAS NELSON EVENS, London, England. Filed Dec. 8, 1922. Serial No. 605,660. 11 Claims. (Cl. 40—142.)

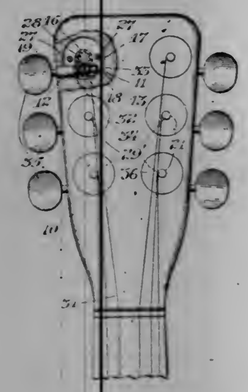


1. An advertising board having relatively swinging elements, the cooperating faces of which form character receiving grooves, and means whereby the elements may be swung relatively to each other to open or close the grooves to release or hold the characters.

1,452,075. TUNING DEVICE FOR STRINGED MUSICAL INSTRUMENTS. HANS O. HAMMER, Chicago, Ill. Filed Mar. 17, 1922. Serial No. 544,464. 4 Claims. (Cl. 84—306.)

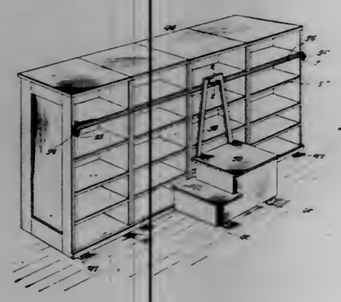
1. A tuning device for stringed musical instruments comprising a head, a socket formed in said head, a bear-

ing base positioned in said socket, a gear and worm seated in said base, a bearing cap secured to said base



and means formed integrally with said cap for preventing displacement of said worm.

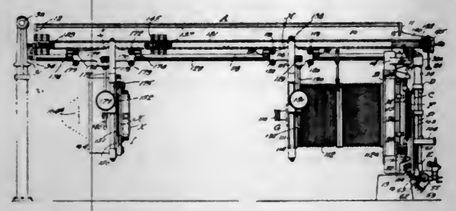
1,452,076. STORE LADDER. HASTING P. HOWARD, Memphis, Tenn. Original application filed Nov. 30, 1921, Serial No. 518,944. Divided and this application filed Apr. 17, 1922. Serial No. 553,697. 1 Claim. (Cl. 228—53.)



In a store, the combination of a row of shelving, eyes projecting from the ends of the row near the top thereof, a rail arranged parallel with the front of the shelving and having downturned ends secured in said eyes, a rolling platform upon the floor immediately adjacent the front of the shelving, a standard rising from the platform at the side thereof adjacent the shelving, the entire standard being in a vertical plane parallel with the vertical plane of the track rail and between the rail and the platform and a grooved roller carried by the upper end of the standard at the rear side thereof and running on the upper side of said rail.

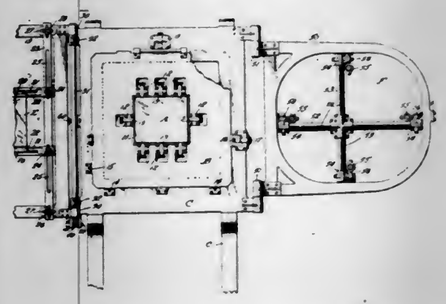
1,452,077. PHOTOGRAPHIC-PROJECTION PRINTING APPARATUS. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Filed Sept. 29, 1919. Serial No. 327,244. 37 Claims. (Cl. 88—24.)

17. The combination of a holder for a sensitized surface, a photographic projection device and a copy support, a resiliently mounted overhead support, and supporting carriages for said holder, said projection device



and said copy support movably mounted on said overhead support to permit relative movements between said holder, said projection device and said copy support.

1,452,078. APPARATUS FOR POSITIONING THE PRINTING PLATES ON THE PLATE HOLDERS OF PHOTOGRAPHIC-PRINTING MACHINES. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Filed Oct. 16, 1920. Serial No. 417,385. 20 Claims. (Cl. 95—73.)



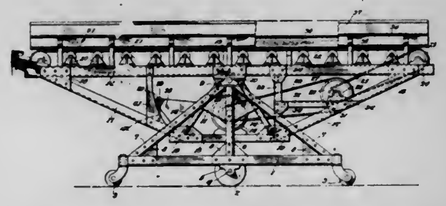
18. In an apparatus of the character described, the combination of a holder for a transparent printing plate, means for supporting said holder in a predetermined position, a registering device bearing a master image, a holder for said registering device arranged to support said device face to face with said printing plate whereby the relative positions of the images on the registering device and printing plate can be observed visually, and means for adjusting the printing plate on its holder operable when the registering device holder is in position in front of said printing plate, whereby the images on the printing plate and registering device can be placed in register.

1,452,079. WRENCH. CLAYTON M. JONES, Jamestown, N. Y. Filed May 20, 1922. Serial No. 562,352. 3 Claims. (Cl. 76—114.)



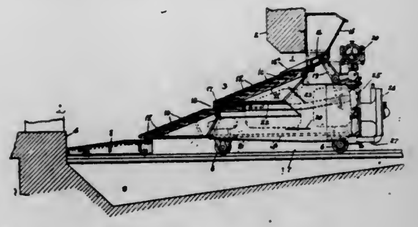
3. The hereindescribed method of making wrenches which consists in forming a fixed jaw with a pair of communicating inner and outer barrels and with a transverse opening intersecting the inner barrel, then in providing an adjustable jaw having a part fitted in the outer barrel and a rack in the inner barrel, then in heating a nut having an opening and placing same in the transverse opening formed in the fixed jaw, then in inserting a screw having a shank in the inner barrel and engaging same with the said rack and inserting the shank of the screw through the nut opening, and then in cooling the nut to cause same to shrink onto the screw shank.

1,452,080. LOADER. WILLIAM T. JONES, Omar, W. Va. Filed Nov. 21, 1922. Serial No. 602,402. 1 Claim. (Cl. 198—121.)



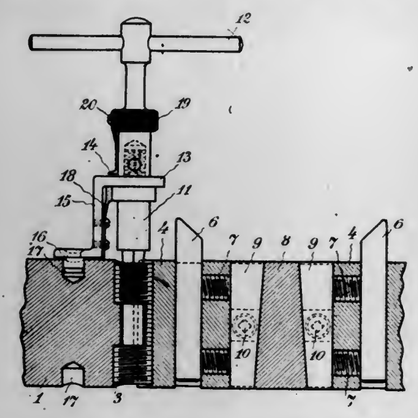
A loader comprising a truck and a loader frame mounted to oscillate on the truck, said truck and frame being symmetrically arranged as regards the vertical plane through the axis of oscillation; said truck including a wheeled base, a pair of cheeks rigidly mounted upon said base, said cheeks being of triangular shape and made of structural material terminating at the apex with bearing elements; said frame being also constructed of structural material in the shape of two pairs of inverted triangles having common bases formed of straight beams, trunnions secured on said beams at the junction of said triangles, and a platform connecting the apexes of said triangles, a motor mounted upon said platform, rollers revolubly mounted upon said straight beams, an endless belt engaging said rollers, and inclined longitudinal guide members forming a trough with said belt as a bottom, and secured upon said straight beams; suitable gearing between said motor and said rollers, and means for elevating said frame inserted between the frame and the truck; all movable parts being confined between said cheeks, whereby the loader may pass through the doors of a box car.

1,452,081. AUTOMATIC STOKER. KARL F. JUENGLING, Lakewood, Ohio. Filed May 27, 1918. Serial No. 236,667. 3 Claims. (Cl. 110—32.)



3. In a self contained movable stoker for furnaces, the combination with a furnace chamber, of rails extending therein, and an automatic stoker comprising a wheeled enclosed frame supported on said rails so as to be movable into and out of said chamber, a suitable grate and means for supplying a blast of air to said grate, the air blast means with said frame and grate comprising a unitary structure substantially as described.

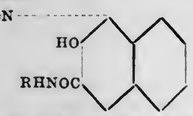
1,452,082. ADJUSTABLE TOOL HOLDER. GUSTAF HENNING LARSSON, Svedala, Sweden. Filed July 29, 1922. Serial No. 578,451. 2 Claims. (Cl. 29—96.)



1. An adjustable tool holder, including a boring bar formed with an elongated slot, one end of which is inclined and the other end of semi-cylindrical form having a central projection, a threaded pin mounted in the slot having a reduced section cooperating with the projection to prevent axial movement of the pin in the slot, a tool carrier slidably mounted in the slot having one end formed for threaded cooperation with the pin, said carrier having a tool receiving opening, means for removably securing a tool in the carrier, and a wedge member having an inclined face for cooperation with the inclined portion of the slot and removably secured therein, holding the tool carrier in cooperative engagement with the pin.

1,452,083. BLACK AZO DYESTUFFS AND PROCESS OF MAKING SAME. AUGUST LEOPOLD LASKA and ARTHUR ZITSCHER, Offenbach-on-the-Main, Germany, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany, a Corporation. Filed Aug. 9, 1922. Serial No. 580,759. 8 Claims. (Cl. 260—83.)

1. As new articles the azo dyestuffs, which can be obtained by combining the diazo compound of an aryl azo-1-naphthylamin compound not containing a sulfo group with an aryl-amid of 2.3-oxynaphthoic acid which dyestuffs have probably the general formula:



wherein X means the residue of an 4-naphthylamin compound capable of combining in the 4-position and not containing a sulfo group, R an aromatic radical, which dyestuffs are when dry, black powders with metallic lustre, insoluble in water and soluble in concentrated sulfuric acid to a blue green solution, yielding upon reduction with stannous chloride an arylamin, a 1.4-diamino compound of the naphthalene series and an arylid of 1-amino 2 oxy-3-naphthoic acid, and, when produced on the fiber, dyeing cotton in black shades of an excellent fastness.

1,452,084. GOLFING OUTFIT. WILLIAM S. LUCKETT, Chestnut Hill, Pa. Filed Feb. 24, 1922. Serial No. 538,923. 1 Claim. (Cl. 150—1.5.)

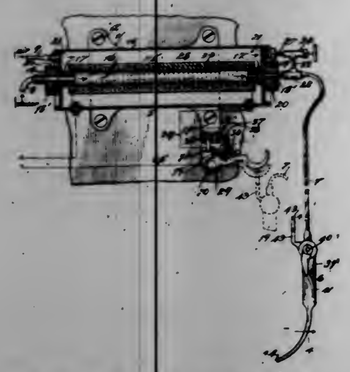
A golf bag comprising a body formed of flexible material, a relatively rigid annular rim portion connected to the upper edges of the flexible body, a cup like rigid bottom receiving the lower end of the body and having its central portion thickened and provided with an open ended screw threaded socket, a circular supporting plate

of a circumference similar to the circumference of the bottom, a central up-standing exteriorly threaded stud carried by the plate for detachable engagement with the socket for releasably maintaining the plate in intimate contact with the bottom, prongs depending from the under surface of the plate for penetrating the ground, and a



series of reinforcing rods secured to the flexible body and extending vertically thereof and positioned between the rim portion and the bottom to render the body self-sustaining and to permit of the bag with the plate attached thereto to be thrust against the ground so that the prongs enter therein.

1,452,085. DENTAL SYRINGE. DAVID J. MACHOL, West New Brighton, N. Y. Filed Oct. 15, 1921. Serial No. 507,881. 3 Claims. (Cl. 128—224.)

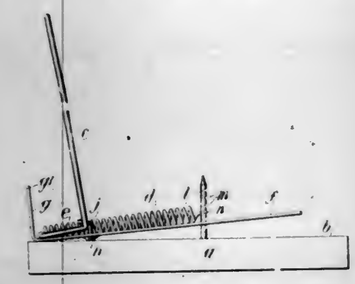


1. In a dental syringe, a casing closed at both ends, a tubular electrical heating element within the casing, said element being smaller in diameter than said casing to provide an air chamber around said heating element, means to pass water through said tubular heating element, means to introduce air into the chamber around the heating elements, a nozzle, a flexible duct connecting the tubular heating element and said nozzle, means to connect the air chamber with said duct at will, and a check valve to prevent air from flowing into the heating unit.

1,452,086. PROCESS FOR THE MANUFACTURE OF SOLID PLASTIC MATERIAL FROM CASEIN. FRANCIS GEORGE MARIES, Kingston-on-Thames, England. Filed Oct. 31, 1921. Serial No. 511,778. 4 Claims. (Cl. 106—38.)

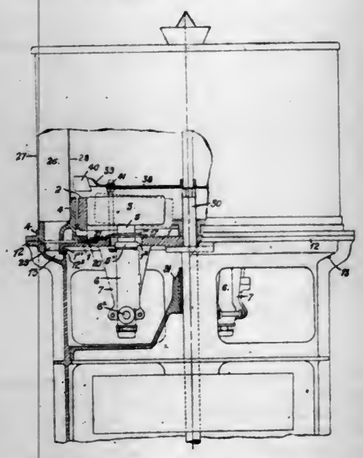
3. The process of manufacturing solid plastic material from casein or milk curd consisting firstly in soaking the casein in a solution containing glycerine, then heating the solution with the casein therein to dry the same then subjecting the mixture to pressure to shape the same, and then soaking the pressed mixture to a solution composed of formaldehyde, glycerine, calcium chloride, water, and acetone.

1,452,087. TRAP FOR MICE, RATS, OR OTHER VERMIN. WILLIAM MARK, Wetheral, near Carlisle, and FREDERIC JOHN PARKER, Carlisle, England, assignors to The Mark Patent Company, Limited, Weston, Bath, England. Filed Aug. 22, 1921. Serial No. 494,157. 4 Claims. (Cl. 43—81.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



4. A vermin trap, comprising a base; a tilting platform pivotally mounted thereon and provided with a central longitudinal slot; a vertical bait hook attached to the base and extending upwardly through said slot, said bait hook being provided with a vertical series of notches; a hingedly-mounted, skeleton jaw provided with a central crank and adapted to bear upon the platform and thereby set the trap; and a spring disposed directly above and in line with the slot and connected at one end to said crank, the other end of said spring having a loop which is interchangeably engaged with the notches on the bait hook to adjust the height of the loop above the surface of the platform, so as to vary the sensitiveness of the trap.

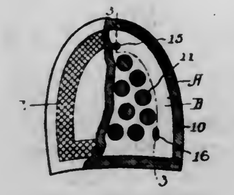
1,452,088. GRINDING OR CRUSHING MACHINE. DONALD JOHN GUNN MILLER, Bootle, and RICHARD ASSHETON LLOYD, Liverpool, England. Filed June 20, 1922. Serial No. 569,733. 6 Claims. (Cl. 83—45.)



1. A grinding or crushing machine, comprising a revolving pan, rollers, spindles for supporting the rollers,

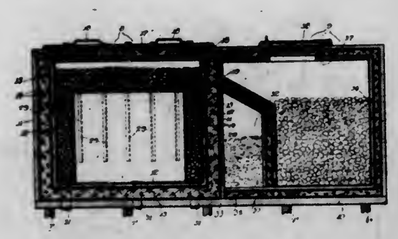
said spindles being carried in radially moving bearings revolving with the pan and passing through openings in the pan bottom, and a flexible collar extending about said openings and between the pan bottom and rollers, whereby to make a closure for said openings.

1,452,089. RESILIENT TREAD FOR FOOTWEAR. FRANCIS A. NOLAN, St. Paul, Minn. Filed Nov. 3, 1919. Serial No. 335,445. Renewed Jan. 11, 1923. 4 Claims. (Cl. 36—35.)



1. A resilient tread having embedded therein a fastener to receive and hold a fastening nail, consisting of a thin flexible metal plate longitudinally unyielding to resist the lateral strain of the fastening nail and adapted to resist and hold the head of the nail against passing through, said plate having a substantially smooth upper surface and being easily penetrable and readily yielding to the point of the nail to form an indenture and prevent the point from deflecting when the nail is driven through the tread and fastener.

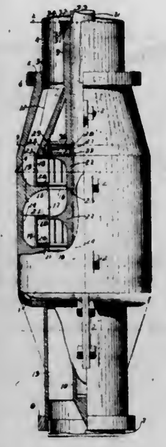
1,452,090. REFRIGERATOR VEHICLE. LOUIS B. OLIN, Chicago, Ill. Filed Aug. 13, 1920. Serial No. 403,440. 1 Claim. (Cl. 296—24.)



In a vehicle of the class described, the combination of the running gear, a rectangular structure mounted thereon and divided into a refrigerator section and an ice and salt section, said structure having temperature insulating double walls, a container within the refrigerator section spaced away from the walls thereof, vertical partitions dividing said space into ice compartments, a side opening leading to said container, a door for said opening, an inlet opening in the top of said structure for charging ice into the ice compartments and a cover for said opening, a collecting space for moisture below said ice compartments and a drain leading therefrom to the exterior of said structure, ice inlet and outlet openings for the ice section, a salt bin within the ice section, and openings leading to said salt bin from the exterior of said structure.

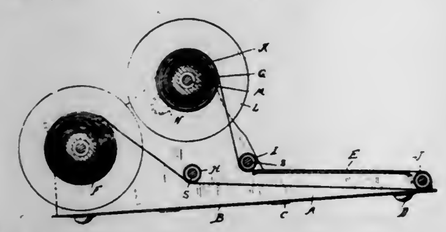
1,452,091. PUMP MECHANISM. PONTUS OSTENBERG, San Jose, Calif. Filed Aug. 20, 1920. Serial No. 404,760. 7 Claims. (Cl. 103—102.)

2. In a pump, a bowl having axially aligned inlet and discharge openings concentrically arranged with relation to the axis of the bowl, a shaft bearing concentrically arranged in said bowl, and means for supporting said bear-



ing in said bowl, said bowl and bearing being divided longitudinally into a plurality of parts, and means for securing said parts in operative relation to each other.

1,452,092. DESK MEMORANDUM PAD. HENRY THOMAS PLATZ, Ashland, Ohio, assignor to Memo Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 2, 1921. Serial No. 466,000. 6 Claims. (Cl. 281—7.)



1. A desk memorandum pad comprising a frame including a table or writing tablet, a pair of paper holding rolls journaled in said frame, one of said rolls being located above said table, idler rolls also journaled in said frame and arranged to guide the paper strip extending from one roll around and over said writing tablet and to the other roll, and means for rotating said rolls to wind the strip from one to the other.

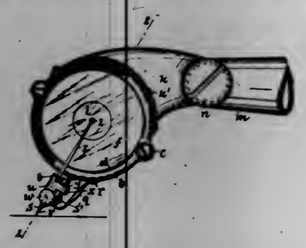
1,452,093. METHOD OF CLEANSING. ISRAEL POLLACK, Dorchester, Mass. Filed Aug. 19, 1920. Serial No. 404,658. 3 Claims. (Cl. 87—5.)

1. The method of cleansing, which consists in first applying, rubbing, and removing a mixture of soap, sand, potassium permanganates, starch and borax; and in a similar application of a second mixture of soap, sand, sodium bisulphite, starch and borax.

1,452,094. PHONOGRAPH REPRODUCER. ALBERT B. REHN, Philadelphia, Pa. Filed Nov. 1, 1921. Serial No. 512,112. 4 Claims. (Cl. 274—35.)

1. In combination, a sound-box including structure having opposite convergently arranged sound-box walls, one

of which is a diaphragm, and a forked stylus device carried by the sound-box and having its fork arms respectively



bearing against said walls, said stylus device being adjustable in said structure relatively to said walls toward and from the direction in which they converge.

1,452,095. PRESSING DEVICE. EMILE REIZENSTEIN, Brookline, Mass. Filed Jan. 19, 1922. Serial No. 530,372. 15 Claims. (Cl. 100—37.)



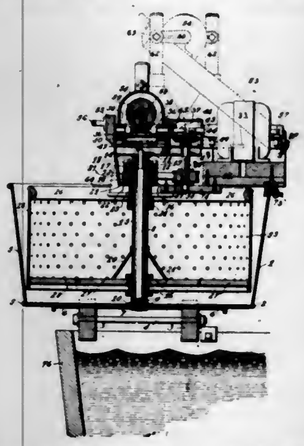
1. A pressing device comprising a plurality of pressing members adapted to press articles therebetween, one of the members being relatively narrow and being located near the edge of the other member, said narrow member being adjustable toward and from said edge to accommodate articles in different positions, and means for clamping the two members together in various positions of adjustment of the narrow member.

6. A pressing device comprising a plurality of pressing members adapted to press articles therebetween, a stiffening ridge extending along the back of one of said members, and clamps extending over the edges of said members for clamping the members together, said clamps bearing on said ridge.

14. A pressing device comprising a pressing board, a pressing member extending along one edge of said board, and a flexible connection between said member and said board permitting movement of the member away from the board and also adjustment away from said edge when in use.

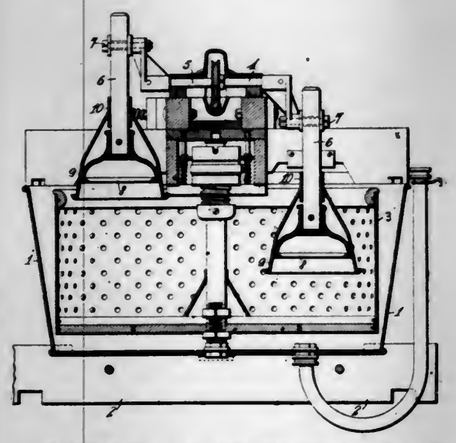
1,452,096. WASHING AND DRYING MACHINE. HARRY B. ROSS, Denver, Colo., assignor to The Fjord Company, Denver, Colo., a Corporation of Colorado. Filed May 13, 1921. Serial No. 469,198. 21 Claims. (Cl. 68—19.)

1. In a machine of the character stated, a tub, a vertical standard rigidly mounted in the tub, a perforated cylinder rotatably mounted on said standard, said standard projecting above the top of said cylinder and having bearings for said cylinder, a base frame secured on the edge of



said tub to project over said cylinder, a motor on said base frame and power transmitting mechanism from said motor to said cylinder.

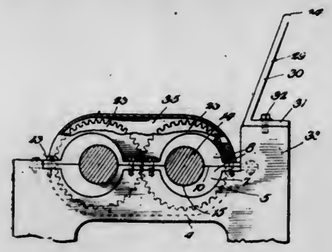
1,452,097. WASHING MACHINE. HARRY BEAUREGARD ROSS, Denver, Colo. Original application filed May 13, 1921, Serial No. 469,198. Divided and this application filed Nov. 7, 1922. Serial No. 599,553. 3 Claims. (Cl. 68—5.)



1. In apparatus of the class described, a vacuum cup clothes working member comprising a rod, a rubber vacuum cup on the end of said rod, an outer vacuum cup slidable on said rod and enclosing said rubber cup said rubber cup being adapted, when said outer cup is in the lowermost position to effect a securing engagement with the same, substantially as shown and described.

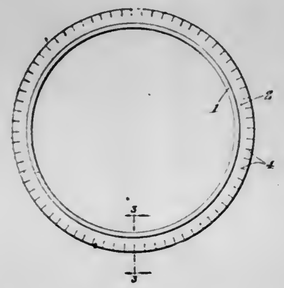
1,452,098. MEAT-TENDERING MACHINE. LILLIE A. SHORT, Washington, D. C. Filed Mar. 15, 1921. Serial No. 452,493. 3 Claims. (Cl. 64—52.)

1. In a device of the class described, spaced supports each having upper surfaces provided with a pair of equally spaced parallel bearing seats of substantially semi-circular contour, and recesses on each side of the seats and in continuation thereof; a pair of rolls having journals, gears detachably secured on said rolls, a bearing for each journal fitting said seats, a pair of ears on each bearing in dimetrically opposite position thereon and adapted to engage in said recesses so as to lie flush with said upper surfaces, said bearings each having



a bore adapted to engage a journal and eccentrically located in a diametrical plane running through said ears; said ears having openings and said recesses having correspondingly threaded apertures, and retaining bolts adapted to engage said openings and apertures to rigidly secure said bearings in axial and perpendicular directions of said seats while said gears are in mesh with each other.

1,452,099. ELASTIC TIRE AND METHOD OF MAKING SAME. JOHN F. SIPE, New York, N. Y. Filed Nov. 2, 1920. Serial No. 421,223. 25 Claims. (Cl. 154—2.)

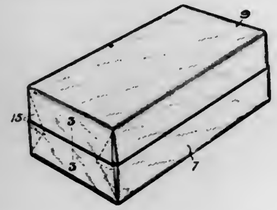


1. A tire including an undivided base portion and multiplicity of tread sections whose adjacent surfaces are normally in contact with each other.

1,452,100. PACKAGE. WILLIAM M. WHEILDON, Ashland, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Aug. 12, 1918. Serial No. 249,420. 9 Claims. (Cl. 100—14.)

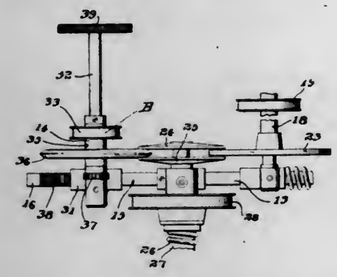
1. A package comprising a compressed commodity and a covering therefor comprising paper sheets on the upper and lower faces thereof folded over the sides, interlocked pairs of bars at each side of the package, opposed edges of the two sheets being folded about the bars of a pair.

6. A bale comprising a compressed commodity and a covering therefor comprising two cup-like elements of paper having opposed edges at the sides of the bale, hooked bars corresponding in length to the sides of the bale and secured to said edges, opposed bars being arranged normally to be held in engagement by the resiliency of the commodity, one of said elements having



a fullness at the corner of the bale to facilitate disengagement of said hooks.

1,452,101. MOTION-PICTURE APPARATUS. HARRY C. WILLIAMS, Fulton, Ky. Filed May 23, 1921. Serial No. 471,697. 6 Claims. (Cl. 242—55.)



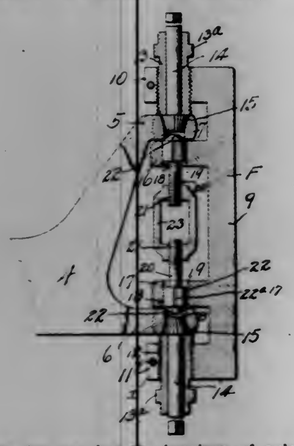
2. In a motion picture machine, the combination with a magazine, a take up reel arranged in the magazine, a rewind reel arranged in the magazine, an operating shaft, a drive shaft for the take up reel, means for operatively connecting the drive shaft with the take up reel, a friction wheel carried by the drive shaft, a pair of sliding friction wheels adapted to engage the opposite sides of the first mentioned friction wheel, a shaft for carrying the last mentioned friction wheels, means operatively connecting the last mentioned shaft with the operating shaft, a rotatable and slidable shaft, a starting and stopping disc rotatably mounted upon said shaft and adapted to be forced between the pair of friction discs, and a drive pulley wheel for the rewind reel operatively connected to said starting and stopping disc.

1,452,102. INTERLOCKING SPLICE FOR THREADS OF TWO STRANDS. TAKEJIRO YAMAMOTO, Nishinari-gun, Osaka, Japan. Filed May 3, 1922. Serial No. 558,233. 1 Claim. (Cl. 96—23.)



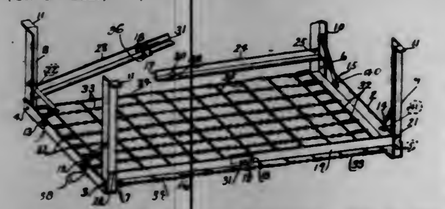
An interlocking device for threads of two strands, in which each strand of one thread crosses each strand of the other thread at two points, whereby the strands of both threads form four crossings, substantially as set forth.

1,452,103. REAMING TOOL. WINSLOW YERXA, Delburne, Alberta, Canada. Filed Feb. 17, 1922. Serial No. 537,267. 8 Claims. (Cl. 77—62.)



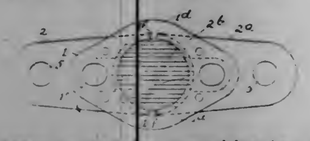
1. A jig for reaming the bearings of axle bars comprising a holder, a reamer carrier adjustably mounted in said holder, a reamer rotatable in said carrier, and extensible means for simultaneously engaging both bearings to maintain the reamer in axial alignment therewith.

1,452,104. BED. TOM D. ANDERSON, San Jose, Calif. Filed May 13, 1922. Serial No. 560,644. 4 Claims. (Cl. 5—112.)



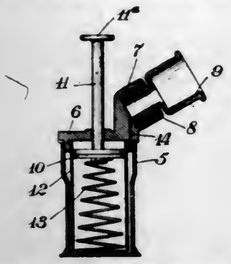
1. A one-piece folding cot comprising a pair of end members L shaped in cross-section, a fabric supported thereby, a leg L shaped in cross-section pivotally mounted upon each end of each end member, the two legs on each end member folding one into the other and into the end member into parallel relationship to each other, and a side bar pivotally mounted on each leg and L shaped in cross-section whereby to fold into the leg upon which it is mounted and into the end member, the free ends of the side bars on each pair of side legs being adapted to engage each other, and means for locking said ends in rigid relation to each other when engaged.

1,452,105. HEATER OR VAPORIZER. IRVING E. ASKE, Duluth, Minn. Filed Feb. 11, 1921. Serial No. 444,146. 3 Claims. (Cl. 219—38.)



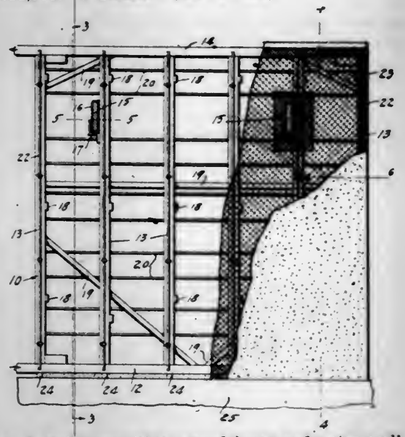
1. A heater or vaporizer comprising two electricity-conducting wings spaced from each other and electrically connected together by an electricity-conducting grid or screen.

1,452,106. MASSAGING DEVICE. FREDERICK HOWARD AULD, Columbus, Ohio. Filed June 23, 1919. Serial No. 306,097. 1 Claim. (Cl. 128—300.)



A massaging device comprising, in combination, an exterior vessel, a removable head directly connected with the vessel for air tightly closing the same, a cylinder within the vessel attached at its upper end to said head and open at its lower end, said cylinder removable from the vessel with the head, a piston for said cylinder having an operating stem extending through said head with an air excluding fit, a spring in said cylinder compressible by the piston against the bottom of the exterior vessel, and a vacuum cup carried by said head having a passage communicating with the vessel for both the intake and exit of air therefrom.

1,452,107. WALL CONSTRUCTION. HERBERT A. BAUMHOVER, Dubuque, Iowa. Filed May 6, 1922. Serial No 558,915. 5 Claims. (Cl. 72—46.)



1. A wall comprising spaced inner and outer wall sections, an insulating medium disposed intermediate said inner and outer wall sections, and a continuous cementitious coating applied to the outer faces, top and bottom of said wall structure and completely enclosing said wall sections and the space therebetween.

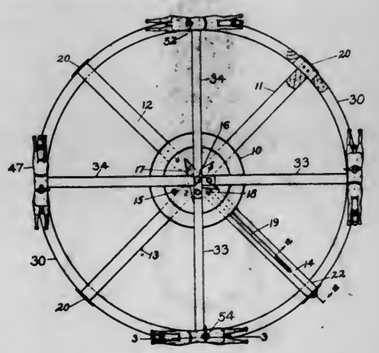
1,452,108. TOOTHBRUSH. JOHN H. CARTER, Cohoes, N. Y. Filed July 1, 1921. Serial No. 481,869. 3 Claims. (Cl. 15—167.)



1. A brush comprising a handle having a substantially oval head which is substantially elliptical in cross section,

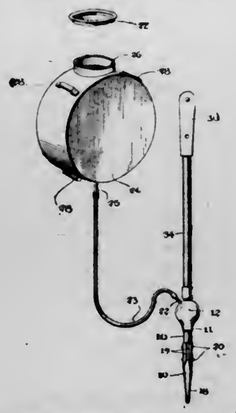
stiff tufts of bristles carried by the central portion of one face of said head, and a line of longer more flexible tufts adjacent the margin of said face and diverging from said central tufts.

1,452,109. TOY. LORENZO R. CENTERBAR, Fitchburg, Mass. Filed Aug. 6, 1921. Serial No. 490,219. 22 Claims. (Cl. 46—27.)



1. In a toy of the character described, the combination with a motor casing, of a folding support therefor comprising a plurality of radial arms spaced around the center of the casing, one of said arms being fixed to said casing and the rest of the arms being pivotally connected therewith on the bottom an arm opposite the fixed arm being slidable inwardly past the center of the casing into a position adjacent to the fixed arm and the others being adapted to swing into a position substantially parallel with the fixed arm.

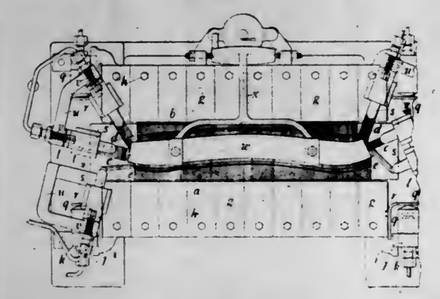
1,452,110. TRANSPLANTING DEVICE. HENRY DEMASCUS ELLIOTT, Tabor, N. C. Filed Dec. 22, 1921. Serial No. 524,272. 3 Claims. (Cl. 47—37.)



1. In a device of the character described, a tubular stock having an orifice intermediate its ends and in the side wall thereof communicating with a liquid chamber, a spring pressed valve member within the tubular stock, a rod having its one end connected with said valve member and its other end formed with a lateral projection adapted to seat upon the upper end of the stock and hold the valve member in position for closing said orifices, and means whereby said valve member may be lifted to open said orifice.

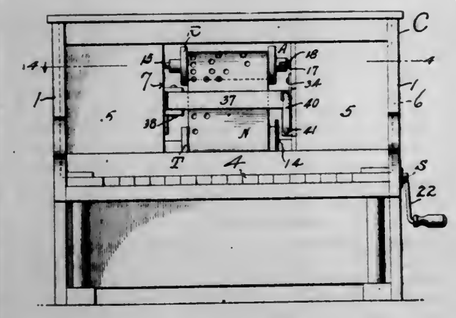
3. In a device of the character described, a liquid injecting section comprising a tubular member, a division wall extending longitudinally thereof, an end closure for the lower end of said section adapted to form two separate compartments with said division wall, and said end closure having a plurality of orifices communicating with said compartments of the tubular member, and projections formed upon the lower face of the lower end closure for the purpose described.

1,452,111. MACHINE FOR USE IN THE MANUFACTURE OF LINEN COLLARS AND THE LIKE. EDGAR BEVERLEY FENBY, Leamington Spa, England. Filed Dec. 28, 1920. Serial No. 433,720. 8 Claims. (Cl. 223—55.)



7. In folding machines for use in the manufacture of linen collars and the like, the combination comprising groups of relatively adjustable thin metal folder strips, holder for the said strips, fluid pressure cylinders for producing movements of the holders in one direction, springs for returning the holders, a heated pressure plate over which the folder strips slide, a fluid pressure diaphragm acting on the said plate for producing pressure between the pressure plate and the folder strips, a hinged arm, a shaped plate carried on the arm, the shaped plate being adapted to co-operate with the folder strips and pressure plate, a valve automatically admitting and releasing the pressure fluid to and from the said cylinders and diaphragm, means on the hinged arm for controlling the said valve, and means on one of the holders for putting the said valve controlling means out of action, substantially as described.

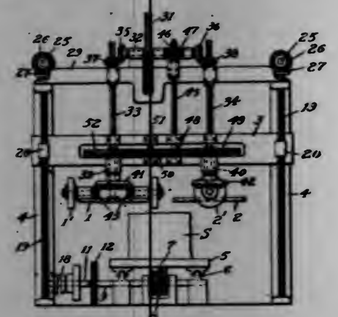
1,452,112. TOY PLAYER PIANO. FRED R. GOOLMAN, Syracuse, N. Y., assignor, by mesne assignments, to Mimmo Toy Company, Inc., a Corporation of New York. Filed Oct. 7, 1919. Serial No. 329,059. 17 Claims. (Cl. 84—102.)



1. A toy player piano including a player unit, comprising a winding roll and a rewind spindle mounted to

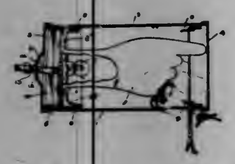
rotate in fixed locations, a power shaft having means for operatively connecting with either the winding roll or rewind spindle, a tracker device and means controlled by said tracker device for shifting said power shaft at right angles to its axis for automatically causing the connection between the rewind spindle and power shaft and between the latter and the winding roll to be operative or inoperative.

1,452,113. STONE-SURFACING MACHINE. FRED J. GOULD, Springfield, Mass. Filed Oct. 3, 1919, Serial No. 328,112. Renewed Nov. 28, 1922. 4 Claims. (Cl. 51—90.)



1. In a stone surfacing machine, a frame, a common drive shaft, a pair of shafts driven therefrom, rotary surfacing heads mounted on said shafts, rotary surfacing implements mounted on said heads, a pair of hollow shafts sleeved about said first-named pair of shafts, gearing between said hollow shafts and the arbors of said rotary surfacing implements for rotating said implements independently of the rotation of said heads, a shaft disposed between said pair of shafts and driven from said common drive shaft and gearing between said intermediate shaft and said hollow shafts.

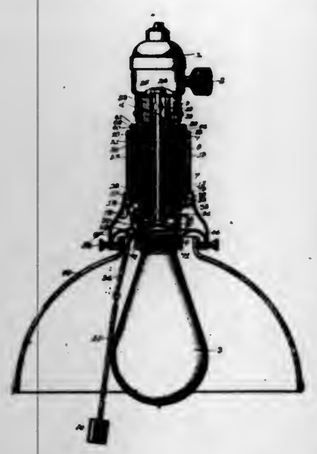
1,452,114. DIRECTION INDICATOR FOR AUTOMOBILES AND OTHER VEHICLES. JOHN OSCAR GAENIER, Vancouver, British Columbia, Canada. Filed Dec. 24, 1921. Serial No. 524,731. 2 Claims. (Cl. 116—39.)



1. A direction indicator comprising an elongated tubular casing having one end closed and provided with an air inlet, a piston having a sliding fit in said casing and adapted to be moved toward the open end of the casing by the air admitted into the latter, a pointer carried by the piston adapted to be concealed within the casing in the retracted position of the piston, and means for limiting the movement of the piston toward the open end of the casing comprising a roller mounted in the casing adjacent the closed end thereof, and a web wound on the roller and having its free end attached to the said piston.

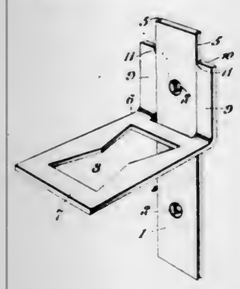
1,452,115. DIMMING MECHANISM. ALFRED HERZ, Chicago, Ill., assignor, by direct and mesne assignments, to Electric Auxiliaries Company, Dover, Del., a Corporation. Filed July 24, 1916. Serial No. 110,953. 28 Claims. (Cl. 219—49.)

1. In combination an inductance coil, a plug mounted on one end of said coil, said plug comprising a core of insulating material having a grooved bore therethrough, a switch mounted on the other end of said inductance coil, said switch having a block of insulating material having a



grooved bore therethrough and a bolt having flat portions engaging said grooved bore and preventing said core from turning.

1,452,116. DOOR AND WINDOW BUCK. JOSEPH H. HEUE, Carroll, Iowa. Filed Dec. 15, 1921. Serial No. 522,484. 4 Claims. (Cl. 72—101.)

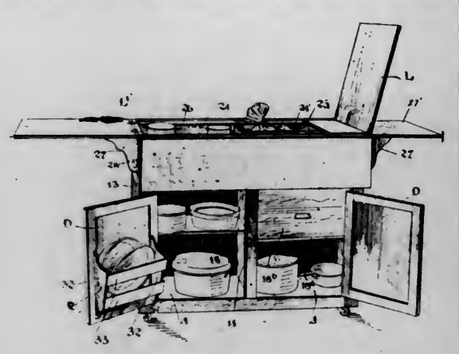


1. A device of the class described, an attaching plate adapted to be secured to the outer faces of the side members of a door or window frame in longitudinal alinement therewith, in combination with a lock plate adapted to be embedded in the motar between the courses of brick or other material of the wall having the frame, said lock plate having a pair of perpendicularly disposed arms at one end spaced apart a distance to receive the attaching plate between the same, whereby said plates are secured together against lateral movement.

1,452,117. CONVERTIBLE FURNITURE. LORA ELLA HOLMES, Moultrie, Ga. Filed Sept. 16, 1922. Serial No. 588,690. 2 Claims. (Cl. 45—16.)

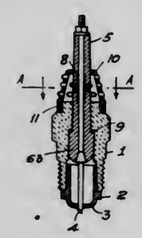
2. A cabinet including a structure adapted to form a compartment at its upper end having two opposing ends open and also the top open, a pair of drawers slidable within said compartment, one being slidable within each end thereof, a lid hinged to each end of the cabinet and adapted to be folded inwardly for forming a top closure for said compartment, and a board slidable within longitudinal

guideways formed in the opposing walls of said compartment and operating beneath the hinged point of said lids and adapted to be extended from the one end of said cabi-



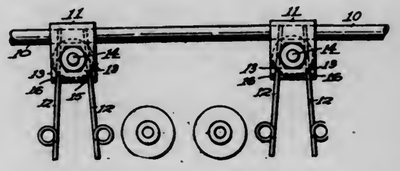
net and also adapted to be pushed within the cabinet to form a partial top closure for the compartment therebeneath.

1,452,118. SPARKING PLUG FOR INTERNAL-COMBUSTION ENGINES. HERBERT FLEETWOOD HOLWORTHY, Salop, England. Filed Aug. 9, 1920. Serial No. 402,180. 1 Claim. (Cl. 123—169.)



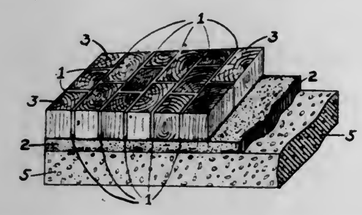
1. A spark plug for internal combustion engines comprising a hollow body portion one end thereof being constructed for attachment to an engine and the other end to maintain a dome, a dielectric comprising two members which are insulated one from the other, an electrode which extends through and beyond the dielectrics, a dome associated with the base and with one of the dielectrics to serve as a brace therefor said dome surrounding the jointure between the dielectrics and having therethrough orifices which are overlaid by outward projecting concavo-convex open-ended projections.

1,452,119. QUILLER-WIRE HOLDER. LEWIS T. HOUGHTON, Worcester, Mass. Filed June 12, 1922. Serial No. 567,622. 3 Claims. (Cl. 242—157.)



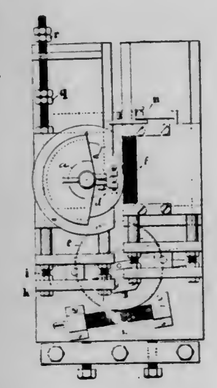
1. In a quiller wire support, the combination with a U-shaped bracket for receiving a supporting rod between its flanges, of a pair of quiller wires having ends, one end of each extending along one flange toward the rear thereof, a rod lying over said ends and means spaced from the rod and between the rod and the eye-ends of said wires for forcing the rod against the wires to clamp them together.

1,452,120. COMPENSATING FILLER FOR BLOCK PAVING. RICHARD LAMB, New York, N. Y.; Sarah E. Lamb, executrix of said Richard Lamb, deceased, assignor to Sarah E. Lamb. Filed Mar. 11, 1920. Serial No. 365,091. 8 Claims. (Cl. 94—18.)



1. The combination with paving blocks, of a support therefor, and a filler between adjacent blocks composed of an intimate mixture of colloidal agents, argillaceous sand and clay in such proportions that the filler will be solid and hard when dry and soft and yielding when wet.

1,452,121. APPARATUS FOR CUTTING TOOTHED GEARS. FRANK MICHAEL LEWIS, London, England. Filed Aug. 23, 1920. Serial No. 405,332. 8 Claims. (Cl. 90—4.)

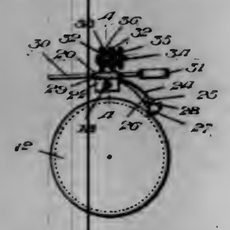


2. Apparatus for forming toothed gears comprising a blank holder, a slide supporting said blank holder, a roller member on said slide, a second slide having a track thereon engaging said rolling member, a cutter adapted to rotate across the face of the blank and means for varying the relative speeds of movement of said slides.

1,452,122. RECORDER. WILLIAM N. MCCONNEL, Milner, Idaho. Filed Apr. 12, 1921. Serial No. 460,722. 4 Claims. (Cl. 234—10.)

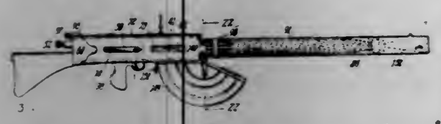
1. In a recording device, a rod, a carrier bent from sheet metal having end portions extending at an angle and fitted on said rod for sliding and turning movements, said carrier having a bent portion forming a split sleeve, an arm extending from the carrier to one side of the rod

for supporting a marking element to bear on a chart, means for moving said carrier along said rod, and a rod



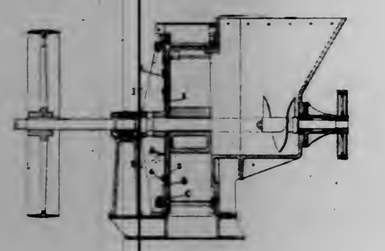
frictionally gripped in said sleeve for transverse adjustment relatively to the aforesaid rod and having a weight to press the arm toward said chart.

1,452,123. MACHINE GUN. JOHN C. R. MCCRUDDEN, Hurstville, near Sydney, New South Wales, Australia. Filed June 19, 1920. Serial No. 390,153. 10 Claims. (Cl. 89—3.)



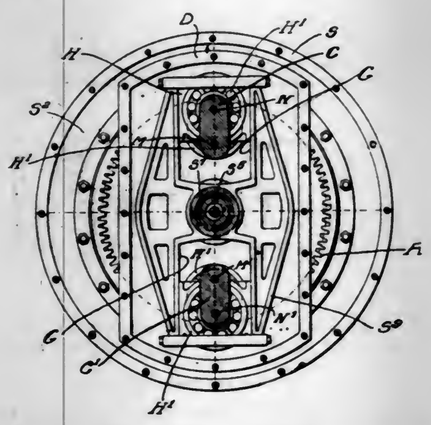
1. A machine gun having a recoilable barrel, a carriage attached to said barrel as a rearward extension thereof and axially slidable therewith, a body casing surrounding said carriage, an axially sliding bolt, a withdrawable master pin mounted in the rear end of said bolt and serving as an abutment therefor, a drop down latch for said bolt housed in said carriage said latch being automatically opened in the recoil movement of the carriage and automatically closed in the forward return movement thereof, trigger mechanism mounted in the body casing, means for automatically cocking and firing the gun engageable by said trigger mechanism, and means for varying the rate of fire during action.

1,452,124. DRUM ROOT CUTTER WITH A HORIZONTAL AXIS. ABEL MAGUIN, Paris, France, assignor to Societe Nouvelle des Etablissements Alfred Maguin, Aubervilliers, Seine, France. Filed Nov. 20, 1922. Serial No. 602,268. 2 Claims. (Cl. 146—11.)



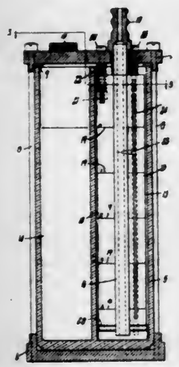
1. In a horizontal drum-shaped root cutter the combination of a stationary disc and a rotary member, the rotary member having a radial slot and a hole arranged diametrically opposite said slot, said slot being adapted for the purpose of enabling the stationary disc to be scraped, whilst the hole serves for the removal of material which is collected between the stationary disc and the rotary member and for the injection of a cleaning liquid.

1,452,125. INTERNAL-COMBUSTION ENGINE. JOSÉ FONS PONT, Barcelona, Spain. Filed Dec. 9, 1919. Serial No. 343,650. 4 Claims. (Cl. 123—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



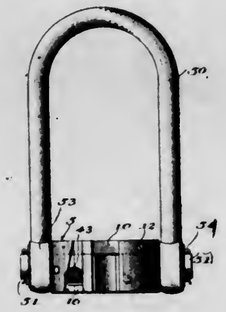
1. In an explosion motor of the described type, two sets of pistons revolving in the interior of an annular chamber or casing, two rings upon which are fixed respectively the pistons of each of the two sets, two crossheads connected respectively to said two rings, a toothed ring, and revolving pinions meshing with said toothed ring, said pinions having each, two points or cranked portions diametrically opposite one another connected directly and respectively to the two cross-heads.

1,452,126. PRESSURE GAUGE. WILLIAM A. READY, Brookline, Mass., assignor to National Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1921. Serial No. 436,160. 10 Claims. (Cl. 73—31.)



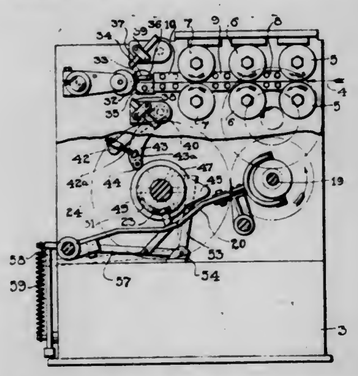
1. A gauge having, in combination, a container for liquid, a vertical tube of transparent material located in said container and open at its opposite ends, the lower end of said tube terminating adjacent to the bottom of said container and spaced apart therefrom, means to connect the upper end of said tube to a source of pressure and a vertical scale wholly within said container adjacent to said tube.

1,452,127. ROD ELEVATOR. CHARLES E. SITZMAN, Taft, Calif. Filed Jan. 9, 1922. Serial No. 527,046. 3 Claims. (Cl. 294—91.)



1. A device of the character specified comprising a body having a centrally arranged opening and a radial slot forming a means whereby a rod may be inserted into said centrally arranged opening, a latch arm pivoted to said body and extended across said slot, said latch arm having its forward portion provided at one side with a recess, the bottom wall of said recess being formed with a socket, and a trigger pivoted intermediate its ends to said body and having its upper portion provided with a pin adapted to be received within said socket, and a thumb piece connected to the lower portion of said trigger.

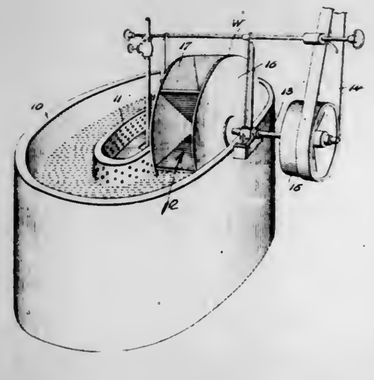
1,452,128. SPRING-COILING MACHINE. FRANK H. SLEEPER, Worcester, Mass., assignor to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1921. Serial No. 453,279. 4 Claims. (Cl. 153—64.)



1. In a spring coiling machine, the combination with wire feeding devices, coiling tools, a wire severing device, and means for automatically interrupting the operation of the feeding devices and for operating the severing device after a predetermined length of wire has been coiled, of means for manually rendering the wire feed interrupting and severing devices inoperative to permit the coiling of any desired length of wire.

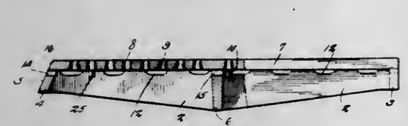
1,452,129. DYEING MACHINE. FRANCIS C. W. STELTER, Astoria, N. Y. Filed June 16, 1921. Serial No. 478,103. 2 Claims. (Cl. 8—19.)

2. In a dyeing machine, in combination, a tank comprising spaced parallel inner and outer walls of substantially elliptical form and adapted to hold between them a body of dye liquor containing articles to be dyed, and a paddle wheel for moving the dye liquor and articles floating or contained therein in a substantially elliptical path between the walls of the tank, said paddle wheel



being substantially half submerged in the liquid and comprising a plurality of radial blades extending from the periphery to the axis of rotation and having a disc secured to each side thereof, the diameter of which is substantially equal to the diameter of the paddle wheel.

1,452,130. GRATE BAR. WILLIAM AUGUST VIETOR, Eureka, Calif. Filed Oct. 19, 1922. Serial No. 595,594. 1 Claim. (Cl. 126—168.)

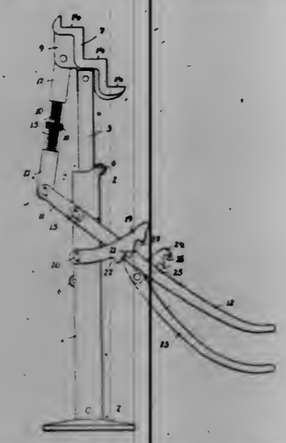


In a device of the class described, a bearing bar comprising sides, ends, and a partition connecting the sides, and a top plate resting on the bearing bar and extended in a single length from one end of the bar to the other, the top plate having openings disposed out of alinement with the sides, the ends, and the partition, the top plate being supplied with depending lugs cooperating with the bearing bar to limit the movement of the top plate, the lugs being spaced from the bearing bar sufficiently so that the top plate can expand and contract, the bearing bar being provided in its upper edge with air-admission notches, one end of the bearing bar being downwardly and outwardly inclined, and the corresponding end of the top plate being inclined to cooperate with the slope of said end of the bearing bar.

1,452,131. AUTO JACK. FREDERICK E. WALDEN, Worcester, Mass.: Grace E. Walden executrix of said Frederick E. Walden, deceased. Filed Aug. 3, 1920, Serial No. 401,012. Renewed Sept. 15, 1922. Serial No. 588,481. 4 Claims. (Cl. 254—116.)

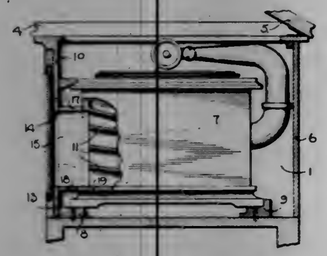
1. An auto-jack comprising two telescopically disposed members, one having a base and the other a stepped axle-engaging device, a lever pivoted to the member provided

with a base, an internally threaded thimble pivoted to the short arm of said lever, an internally threaded thim-



ble pivoted to the stepped device, a right and left hand screw turning in said thimbles, and means for turning said screw.

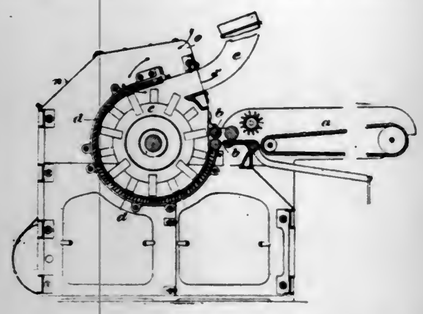
1,452,132. PHONOGRAPH CABINET. JOHN B. WEEKS, Hanover, Pa., assignor to Long Furniture Company, Hanover, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1922. Serial No. 599,648. 3 Claims. (Cl. 45—52.)



3. The combination with a cabinet having a compartment of a sufficient size to receive a talking machine, said compartment having an open front and an open back, the machine being inserted within the compartment through the open back, a front wall extending across the top of the open front and a door for closing the open front of the hereindescribed attachment, comprising a front panel fitting flush within and filling the space at the open front below the front wall, said panel having a central opening of a size and shape to expose the slats of the talking machine, and strips extending inwardly from the panel at the said opening and engaging with the front of the talking machine, said strips defining a passage for the musical sounds issuing from the machine.

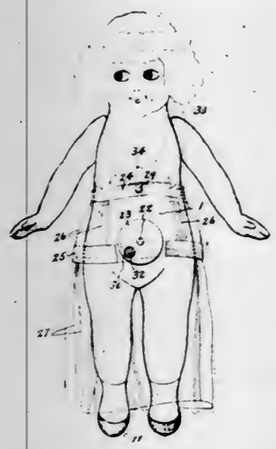
1,452,133. MACHINE FOR OPENING AND CLEANING COTTON AND OTHER FIBROUS MATERIALS. HENRY WILKINSON, Oldham, England, assignor of one-half to Platt Brothers and Company Limited, Oldham, England. Filed Dec. 28, 1921. Serial No. 525,414. 3 Claims. (Cl. 19—95.)

2. In machines having a down stroke porcupine cylinder, used for opening and cleaning cotton and other fibrous materials, the combination with such cylinder of cleaning bars arranged to commence at the feed rollers of the machine and to extend around three quarters of the circumference of the cylinder, the grid bars for the final quarter of the circumference being arranged at an



opposite angle to the other portion of the grid bars, to provide an outlet for the fibre on the same side as and above the feed, and having an air opening at the top of the casing of the machine substantially as described.

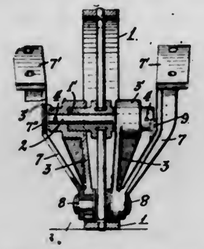
1,452,134. MECHANICAL DOLL. DAVID ZAIDEN, East Orange, N. J. Filed Mar. 13, 1922. Serial No. 543,214. 10 Claims. (Cl. 46—40.)



1. In a doll, the combination with the doll body of a spring motor mechanism within said body, a spindle rotated by said motor mechanism having a portion projecting exteriorly from the front of said body, a crank device on the exterior end of said spindle, and a costume with which said doll body is clothed, a portion of said costume being directly attached to said crank device whereby motion is imparted thereto.

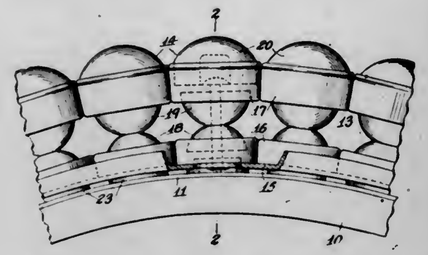
1,452,135. LOAD-SUPPORTING CONNECTION FOR WHEELED STRUCTURES. ORA L. ADAMS, Berkeley, Calif. Filed Nov. 21, 1921. Serial No. 516,601. 4 Claims. (Cl. 280—58.)

1. In a wheeled-vehicle and in combination with its wheel and body frame, a load-carrying connection comprising an axle for the wheel; a swinging link depending from said axle; a hanger carrying at its upper end the body-frame and at its lower end pivotally connected



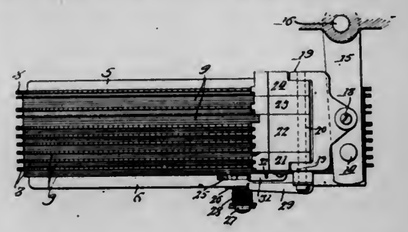
with the lower end of the link, and a stop on said hanger coacting with the head of the link to limit the return movement of the hanger.

1,452,136. TIRE CONSTRUCTION. ALFRED ANCIDONI, Newark, N. J. Filed Apr. 18, 1922. Serial No. 555,287. 15 Claims. (Cl. 152—9.)



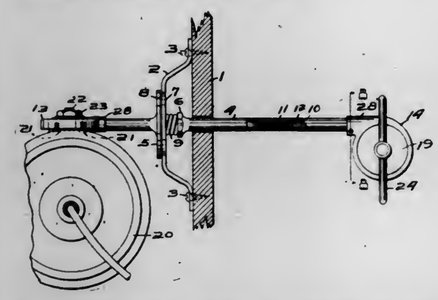
6. A tire of the class described composed of a plurality of resilient units mounted in a circumferential path, said units each being composed of a plurality of resilient members, means for coupling said members together, a suitable mounting for said units, said mounting constituting a rim for the tire and being adapted to be mounted upon the felly of a wheel, means for supporting one of said resilient members of each unit in connection with said rim, another of said resilient members of each unit constituting a tread member, and another resilient member in each unit intermediate of said first named members.

1,452,137. PATTERN-CONTROL MECHANISM FOR KNITTING MACHINES. VIGGO W. ANDERSEN, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,915. 2 Claims. (Cl. 66—28.)



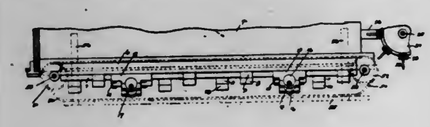
1. In a pattern control mechanism for knitting machines, the combination of a counting plate having peripheral teeth, a pawl carrier, means for reciprocating said carrier, a pair of concentric star wheels mounted to revolve in unison, one having peripheral teeth of the same length as those on said counting plate and the other having peripheral teeth of greater length, pawls on said carrier, one for engaging said counting plate and one each for said star wheels, and means operated by the pawl engaging the second mentioned star wheel for moving the counting plate pawl into and out of operation.

1,452,138. LAMP BRACKET. WALTER CHARLES BAER, Toledo, Ohio. Filed Sept. 27, 1920. Serial No. 413,212. 4 Claims. (Cl. 240—7.)



4. In an adjustable bracket, a rotatable supporting member, a pair of rotative members supported by the first named member and in tangential relation to the axis of the supporting member, a flexible member extending through and in tangential relation to and confined by the first named rotatable member and located substantially in the axis of rotation of the first named rotatable member, and interconnecting the last mentioned rotative members to produce rotation of one of the last mentioned rotative members by the endwise pressure or pull of the flexible member produced by the rotation of the other of the last named rotative members.

1,452,139. MANURE SPREADER. JAMES G. BAILEY, Delavan, Ill., assignor to Rotary Spreader, Mason City, Ill., a Corporation of Illinois. Filed Mar 31, 1922. Serial No. 548,330. 7 Claims. (Cl. 275—5.)

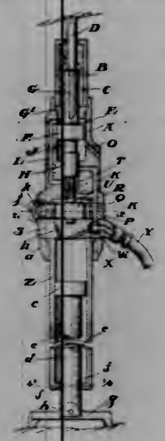


5. In a manure spreader, in combination with a vehicle body, of a feeding means including a plurality of longitudinally disposed boards arranged side by side, alternate boards constituting one of a set or series of boards, means for moving each set or series of boards alternately to the other set or series of boards, and an endless feeder embracing said sets or series of boards and moved by contact of the sets or series of boards therewith.

1,452,140. AIR-FEED CONTROL FOR ROCK DRILLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 23, 1921. Serial No. 471,903. 7 Claims. (Cl. 121—5.)

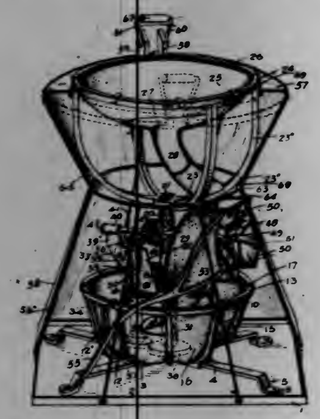
7. In a rock drill of the hammer type, the combination of rifle bar rotation for the drill steel having a ratchet ring adapted to move upon increase of the resistance to rotation, means for feeding the machine for-

ward, a stop on the ratchet ring, and a valve mounted adjacent the ratchet ring and actuated by said stop, said



valve controlling the feeding means, whereby the feed is automatically regulated in accordance with the resistance to rotation.

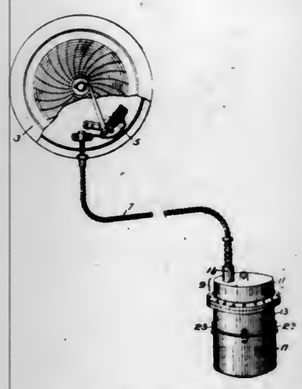
1,452,141. HEN'S NEST. ERNEST ARTHUR BAXTER, St. Paul's, Ontario, Canada. Filed Sept. 9, 1922. Serial No. 587,128. 4 Claims. (Cl. 119—48.)



1. A hen's nest comprising a vertical stud, a nest proper having a central egg discharge orifice, means for resiliently supporting the nest proper upon the aforesaid stud, an annular egg receiver, means for rotating the receiver by a step by step movement by each depression of the nest upon the stud, and means for depositing the eggs transferred from the nest proper so as to fall successively into the egg receiver.

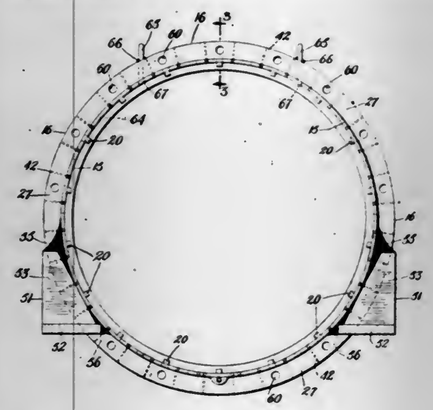
1,452,142. LIQUID HEAD GAUGE. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Apr. 22, 1919. Serial No. 291,940. 9 Claims. (Cl. 73—54.)

1. In a device for measuring the head of liquids, an instrument having a pressure-operated device, a pipe extending therefrom, a casing into which said pipe opens and means providing a pair of connected liquid-containing



wells, one opening to the casing and the other exposed for pressure of a liquid head thereon.

1,452,143. DYNAMO FRAME AND METHOD OF FORMING THE SAME. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,211. 9 Claims. (Cl. 172—252.)

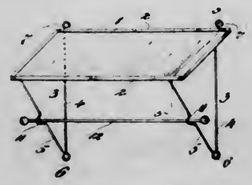


1. The process of forming a frame structure for a rotary electrical machine comprising forming a cylindrical body portion by bending flat strips of metal stock, forming annular disk portions by welding together segments formed from flat metal stock and welding to said cylindrical body portion, reinforcing said frame by filling cement material in between said disk portions and thus uniting and binding said metal parts, and securing axially extending cross bars to the interior surface of said cylindrical body portion for receiving and positioning the laminæ.

1,452,144. COMBINED SHELF AND BRACKET. ARVID F. CARLIN, New York, N. Y. Filed May 17, 1920. Serial No. 381,975. 2 Claims. (Cl. 45—55.)

1. A bracket shelf comprising a plate of sheet metal having the edge bent to form a bead on the upper portion with the margin projecting downwardly below the plate,

a pair of brackets each composed of a rod looped at the middle portion to form an eye, one upright arm projecting upwardly with the end portion bent to form an eye and the extremity bent laterally, the plate having apertures in the projecting flange to receive said bent ends,



the other arm of each bracket being inclined and extending forwardly at an angle to said upright arm with the end portion bent to enter an apertured portion in the said bead, whereby said brackets can support the shelf at each end by fastening means passed through said brackets, and can also fold against the plate.

1,452,145. APPARATUS AND METHOD FOR CARRYING OUT CATALYTIC OXIDATION OF AMMONIA WITH OXYGEN. IVAR WALFRID CEDERBERG, Berlin, Germany. Filed Mar. 14, 1922. Serial No. 543,770. 4 Claims. (Cl. 23—1.)



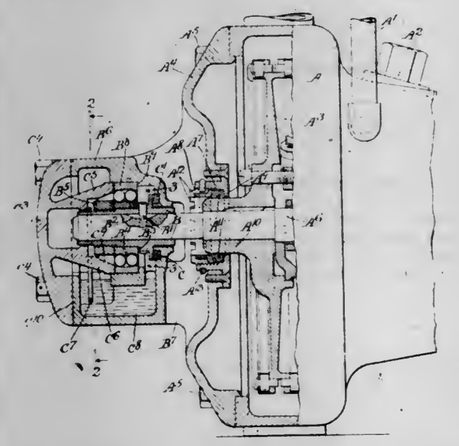
1. An apparatus for carrying out catalytic oxidation of ammonia with oxygen, comprising a flow vessel in which there is a catalyst zone, and a catalyst in said zone the concentration of which catalyst increases from the inlet end towards the outlet end of the vessel.

1,452,146. VALVE CAP. WILLIAM H. CONROY, Cheboygan, Mich. Filed Aug. 18, 1922. Serial No. 582,636. 7 Claims. (Cl. 152—12.)



6. A cap for the valve stems of pneumatic tires comprising a recessed body portion internally threaded adjacent the open end of its recess for application to the threaded end of the stem, a compressible packing element within the recess immediately inside the threaded portion, a concavo-convexed pressure plate having its peripheral portion engaging the corresponding portion of the inner side of the packing element, a screw threaded through the end of the body portion opposite the open end of its recess, said screw having a head engaging the convexed side of the pressure plate, and a thumb nut applied to the outer end of the screw by means of which the screw may be rotated thereby to depress the pressure plate and compress between its peripheral portion and the opposed end of the valve stem the aforesaid packing element.

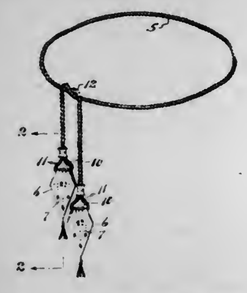
1,452,147. PACKING FOR STEAM TURBINES. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Original application filed June 21, 1918, Serial No. 453,991. Renewed Mar. 21, 1921. Patent No. 1,377,755, dated May 10, 1921. Divided and this application filed Mar. 10, 1919. Serial No. 281,890. 5 Claims. (Cl. 286—7.)



3. A bearing packing gland comprising a ring threaded about a part of its exterior and of reduced exterior diameter about the unthreaded portion of its exterior, a plurality of slots across one of its ends and a plurality of exterior grooves in register with said slots and extending throughout a part of the exterior length of the ring, the surface of the other end of said ring inwardly inclined.

4. A bearing cover stuffing box comprising a cylinder threaded throughout a portion of its interior, channeled about one end of its outer circumference and carrying at one end a radial flange extending outwardly and inwardly from its interior and exterior surfaces.

1,452,148. GIRDLE FOR WOMEN'S APPAREL. OTTO DAVID, Far Rockaway, N. Y. Filed Mar. 9, 1922. Serial No. 542,251. 4 Claims. (Cl. 241—8.)



1. An article of wearing apparel in the form of a girdle for exterior wear and adornment, consisting of a flexible

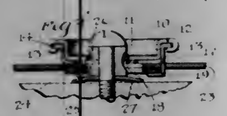
main body portion adapted for tying about the waist of the wearer so as to provide pendant free ends, and ornamental terminal portions provided with means forming pocket spaces therein, said terminal portions being attached to said pendant free ends of said main body portion so as to hang therefrom.

1,452,149. LOG-CARRIAGE-OFFSETTING MECHANISM. SAMUEL ERB, Tacoma, Wash. Filed May 28, 1921. Serial No. 473,346. 2 Claims. (Cl. 143—111.)



1. The combination with a pair of wheeled axles movable in reverse directions along guide rails, a carriage mounted for lateral shifting on the axles, a cable extended about wheels alined parallel with the rails and friction means for retarding movement of the cable, of stop toggle mechanisms connected with said axles, each comprising inner and outer members and a hinge pin connecting said members, the inner toggle members having pivot pin connections with the carriage frame and the outer members having pivotal connection with the axles, and actuating links for the toggles having their inner ends mounted on the connecting pivot pins of the toggle members and outer ends connected with the cable and adapted to open and close the toggles by connection with the hinge pins thereof.

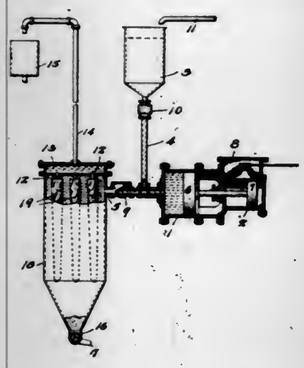
1,452,150. FASTENER FOR VEHICLE CURTAINS. CHARLES J. FOSTER, Higby, and ROBERT D. SIMPSON, Columbus, Ohio. Filed Mar. 22, 1922. Serial No. 547,349. 3 Claims. (Cl. 24—211.)



1. In a device of the character described the combination of the following elements: a post adapted to be attached to a vehicle and provided with sections adapted to receive a fastener, and a fastener adapted to engage with said post and comprising means for attachment to a vehicle curtain, a fixed disk member, a disk member adapted to rotatably move on said fixed member, openings in said fixed and rotatable disk member, said openings being adapted when in register to receive the said post and when out of register to cause the said fixed and rotatable disk members to lock securely on the said post.

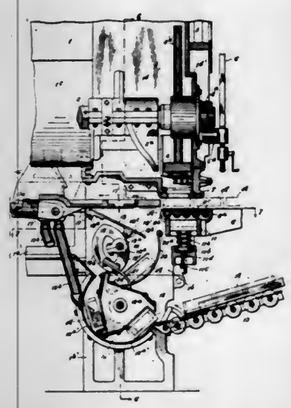
1,452,151. CONTINUOUS THICKENING PROCESS. ALBERT LEGRAND GENTER and GEORGE CAMBELL, JONES, Salt Lake City, Utah, assignors, by direct and mesne assignments, of one-half to The General Engineering Company, Salt Lake City, Utah, a Corporation of Utah, and one-half to Albert L. Genter, Salt Lake City, Utah. Filed Feb. 19, 1918. Serial No. 218,140. 5 Claims. (Cl. 210—182.)

1. The process of filtering and thickening the mixture being filtered within a container with which the mixture to be filtered and the filtrate are continuously in contact with opposite sides of the filter medium, consisting in subjecting the mixture to be filtered to positive pressure which acts against one side of the filter medium intermittently, and, in alternation therewith, permitting the



hydrostatic back pressure of the filtrate to exert the cleansing action against the other side of the filter medium by relieving the pressure on the unfiltered mixture.

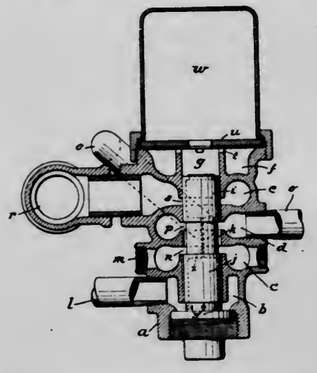
1,452,152. BRICKMAKING APPARATUS. HENRY W. B. GRAHAM, New London, Ohio; Margaret Graham, executrix of said Henry W. B. Graham, deceased; said Henry W. B. Graham, assignor to The Arnold Creager Company, New London, Ohio, a Corporation of Ohio. Filed Sept. 5, 1918, Serial No. 252,681. Renewed May 25, 1922. Serial No. 563,674. 29 Claims. (Cl. 25—48.)



1. In apparatus of the class described, the combination with a brick machine having a filling station and a mold push out, of means for moving empty molds into position for feeding to said filling station, said means including a swingable receiver adapted to support a mold in position for engagement by said push-out.

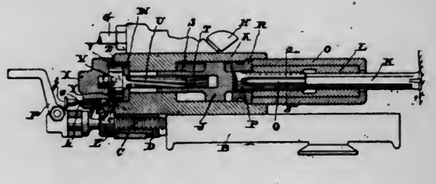
28. In a brick making machine, the combination of a pair of supports correlated to support molds and permit movement thereof from one support to the other, means for moving molds from one support to the other, one of said supports being pivoted whereby it may be moved to form a gap between them, and means for operating said pivoted support about its pivot to permit the delivery of a mold through the gap and the positioning of the mold on one of said supports.

1,452,153. MILKING-MACHINE RELAY. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 18, 1921. Serial No. 446,037. 9 Claims. (Cl. 31—101.)



1. In a milking machine relay, in combination, a source of pneumatic pulsations independent of the relay, a cylinder one end only of which is adapted to communicate with said source of pneumatic pulsations, an air chamber in communication with the other end of the cylinder, and a piston in the cylinder, there being a constantly open restricted passage affording communication between the source of pneumatic pulsations and the air chamber, the air chamber being of sufficient size relative to said restricted passage to maintain therein an approximately uniform pressure at a value substantially half way between the extremes of the pulsations.

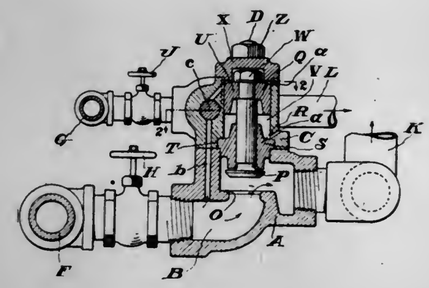
1,452,154. ROTATION RELEASE FOR ROCK DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a Corporation of New Jersey. Filed July 23, 1920. Serial No. 398,372. 3 Claims. (Cl. 121—7.)



1. A rock drill of the hammer type having rifle bar rotation for the drill steel including a drill casing, a back head a rotation ratchet ring having a recess in its periphery adapted to register with a locking recess in the drill casing, a spring pressed pin carried in the back head in longitudinal alignment with the drill casing, said pin adapted to enter said recesses and engage said ratchet ring, casing and back head at a point of juncture of said ratchet ring, casing, and back head for producing positive rotation of the drill steel, but removable therefrom to release the rotation and permit slip of the ratchet ring relative to the drill casing.

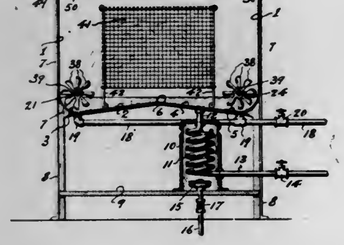
1,452,155. AUTOMATIC LIQUID VALVE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 9, 1920. Serial No. 422,838. 5 Claims. (Cl. 137—139.)

1. An automatic valve passing both liquid and gas under pressure and adapted to shut off the flow of gas with a given drop in the pressure of the liquid, comprising a casing having separate passages for liquid and gas, a valve controlling the gas passage, a by-pass leading directly from the gas passage to the valve, a pilot valve controlling said by-pass, means on said pilot valve



adapted to form a part of the by-pass, said pilot valve being subjected to the pressure of the liquid, and means for automatically opening the by-pass and causing the said gas valve to close when the pressure of the liquid drops to a predetermined amount.

1,452,156. DISHWASHING MACHINE. ANDREW L. HATFIELD, Hillside, N. J. Filed Nov. 7, 1919. Serial No. 336,268. 2 Claims. (Cl. 141—9.)

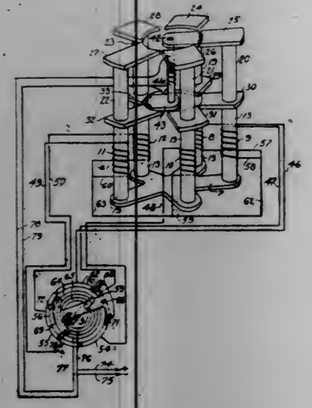


1. In a dish-washing machine, the combination with a tank having trough-like depressions extending along two sides of its bottom interior, a shaft extending through said tank above each trough like depression; radial dasher members mounted on each shaft and relatively set to form a helical line of the same along each shaft, the dasher members of one shaft being set thereon to operate in successive alternate relation to the opposing corresponding dasher members of the other shaft, means for supporting dishes within said tank intermediate said shafts and their dasher members, and means for rotating said shafts in opposite directions to dash water from said trough-like depressions upwardly and over said dish-supporting means and its contents.

1,452,157. INDICATOR MOTOR. CHARLES J. HENSCHEL, Brooklyn, N. Y. Filed Sept. 18, 1920. Serial No. 411,067. 6 Claims. (Cl. 172—239.)

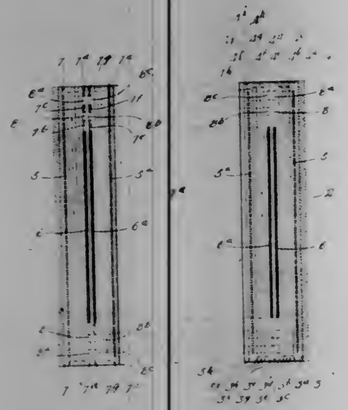
1. An indicator motor provided with an armature having two pole pieces and a winding designed for energization from a remote source of current intermediate the pole pieces to confer a polarity on one of the pole pieces

and the opposite polarity on the other, several field members for the armature, each provided with two pole



pieces and winding designed for energization from a remote source of current at one end of each field member to confer similar polarity on both of its pole pieces.

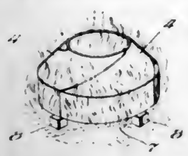
1,452,158. TRANSFORMER. SAMUEL HORELICK, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed July 21, 1921. Serial No. 486,636. 8 Claims. (Cl. 175—356.)



1. A transformer coil comprising windings, circumferentially extending sheets of insulating material between portions of said windings, and axially extending insulating strips spaced from each other between said sheets and windings, certain of said strips extending nearer the end of the coil structure than other intermediate strips.

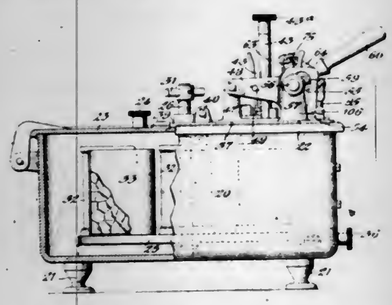
1,452,159. PACKAGING ROD PACKING IN COMBUSTIBLE MATERIAL FOR UNSWEATING THE SAME. GEORGE C. JEROME, Chicago, Ill. Filed May 1, 1922. Serial No. 557,536. 6 Claims. (Cl. 206—47.)

1. In a package, the combination of a metallic packing formed of sections having means for temporarily causing them to adhere together as a unitary structure, and a quantity of fuel adapted to cause the structure



to separate into its component parts by complete combustion of the fuel without injury to the packing.

1,452,160. BUTTER-BLOCKING MACHINE. EUGENE W. KNOWLTON, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a Corporation of New York. Filed Sept. 30, 1920. Serial No. 413,698. 17 Claims. (Cl. 31—65.)



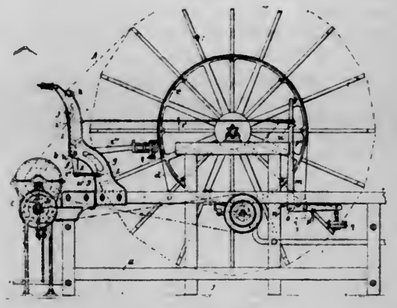
1. A machine of the character described, comprising a casing, a table rotatably mounted therein and having radial notches adjacent to the periphery thereof, butter containers arranged on said table and open at either end, an ejecting device adapted to co-operate with each container for intermittently discharging butter therefrom, and a retractible stop arranged radially of said table and adapted to engage said notches to properly position each container in alinement with said ejecting device.

3. A machine of the character described comprising a casing, a butter container arranged in said casing and having a discharge opening, an ejecting device for expelling butter through said opening, means for actuating said ejecting device, a cutter movable transversely of the discharge opening, a rock shaft having rock arms one of which carries the cutter, a vertically-movable plunger operated by said actuating means, a vertically oscillating bell crank lever, a link connecting one arm of said lever with said plunger, and a horizontally disposed link connecting the other arm of said lever with the other of said rock arms.

8. A machine of the character described, comprising a casing, a butter container arranged in said casing and having a discharge opening, an ejecting device in said container, a rock shaft journaled on said casing and carrying a coupling-pin, a plate mounted on said shaft and having a segmental slot which engages said pin, a cutter movable across the discharge end of said container, a vertically-movable member for operating said cutter, and a push rod connected to said plate for actuating said vertically-movable member, and means carried by said shaft for actuating said ejecting device.

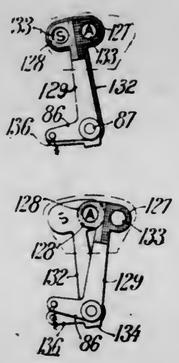
17. An ejector for butter containers comprising a rod, collapsible piston leaves mounted on said rod and hinged on an axis at right angles thereto, and stop-arms secured to said leaves and arranged to engage said rod for limiting the collapsing movement of the leaves.

1,452,161. TENSION-CONTROLLING MEANS FOR BEAMING MACHINES. GEORGE W. KUENNETH, Paterson, N. J., assignor, by mesne assignments, to Jeannette Kuenneth, Paterson, N. J. Filed Dec. 3, 1918. Serial No. 265,128. 4 Claims. (Cl. 28—35.)



1. The combination, with the frame of a beaming machine, a reel and a beam therein, and a brake for the reel, of yielding means to exert pressure against one face of the warp between the reel and beam normally holding the brake set, and a cushioning control for said means operatively interposed between the same and the frame.

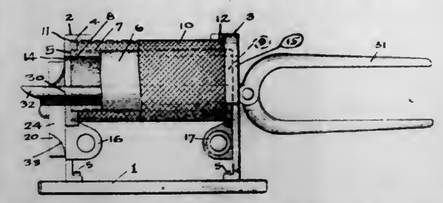
1,452,162. COMBINED TYPEWRITING AND COMPUTING MACHINE. ADOLPH G. KUPETZ, New Rochelle, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed July 10, 1918. Serial No. 244,250. 58 Claims. (Cl. 235—60.)



1. In a combined typewriting and computing machine, the combination with a printing mechanism, of computing mechanism, multichrome ribbon mechanism, means for computing the printed numbers additively, means for computing the printed numbers subtractively, and means for indicating at a single point on the machine the type of computation and color of printing.

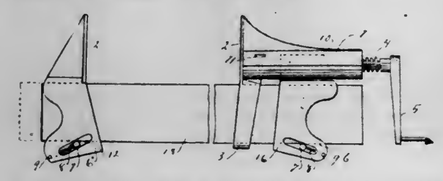
1,452,163. CURLING-IRON HEATER. HENRI G. LEVY, San Francisco, Calif. Filed Mar. 14, 1921. Serial No. 451,938. 3 Claims. (Cl. 219—23.)

1. A device such as described comprising an open-ended cylindrical member having a heating means connected therewith; an annular member disposed on an end of said element and normally adapted to lie eccentric with the axis of said cylindrical element; said annular member being adapted to engage an article to be heated and to position



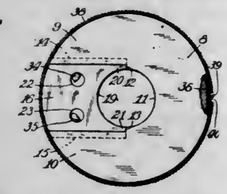
the same substantially parallel to the axis of said cylindrical member.

1,452,164. FURNITURE CLAMP. ANTHONY MARGELIS, Grand Rapids, Mich. Filed Aug. 14, 1922. Serial No. 581,675. 3 Claims. (Cl. 144—303.)



1. In combination with a furniture clamp, a supporting bar, a movable clamping head, a yoke integral therewith and made to enfold the supporting bar, a long cylindrical body integral with said head and having a slot through one side, an anchoring body fitted upon the supporting rail and having laterally disposed slots through it at an incline from the horizontal a roller and an actuating spring connected with the body in said slots, a nut made integral with the anchoring body and positioned inside of the cylindrical body of the clamping head, an actuating screw passing through the cylindrical body and the nut for moving the clamping head longitudinally of the supporting bar, and means for preventing the screw from moving longitudinally in the body when screwing it through the nut.

1,452,165. LOCOMOTIVE-WHEEL-HUB LINER. JOHN BAKER MICHAEL, Selma, Ala. Filed June 18, 1921. Serial No. 478,767. 10 Claims. (Cl. 64—25.)



3. In a sectional annular hub liner, the combination with a unitary main liner plate having a gap therein and a pin-hole extending from the gap, of a sectional plate inserted in the gap and having an aperture therein and also a pin-hole extending from the aperture to the pin-hole in the main liner plate, and a securing pin inserted in the pin-holes and having a head thereon arranged in the aperture in the sectional plate.

1,452,166. APPARATUS FOR DRYING CHAR. HENRY E. NIESE, Morristown, N. J., assignor to The American Sugar Refining Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 387,823. 23 Claims. (Cl. 34—35.)

4. An apparatus for drying granular or finely divided material of the character described having a plurality of

passages for the material to be dried, a plurality of flues for drying gas extending substantially transverse to the



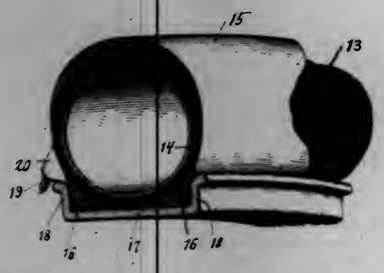
direction of flow of the material through said passages and in open communication with each of said passages, and means for supplying drying gas to said flues.

1,452,167. IGNITION COIL. HARRY R. PATTERSON, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 26, 1919. Serial No. 347,593. 6 Claims. (Cl. 175—360.)



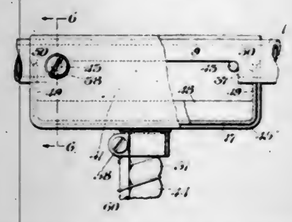
1. In a device of the class described the combination of a core, a primary winding and a secondary winding wound thereon, a casing for said core and windings, comprising a member of magnetic material extending approximately around the same, a member of non-conducting material joining the adjacent ends of said casing and a high tension terminal carried by said non-conducting member.

1,452,168. PNEUMATIC TIRE. HARLAN S. RECTOR, Chicago, Ill. Filed Aug. 9, 1921. Serial No. 490,943. 1 Claim. (Cl. 152—20.)



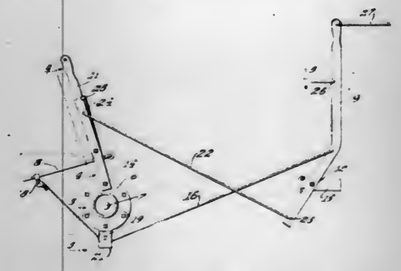
The combination with a rim of a conventional form comprising a base and side flanges of a pneumatic tire composed of a jointless single tube provided with a base fitting in and normally shaped to confrom to the base and flanges of the rim and a completely tubular carcass which permits sufficient and substantially uniform expansion throughout the base of the tire by air pressure to firmly secure the tire in the rim and against longitudinal displacement, entirely by friction produced by the pneumatic expansion of the tire against the base and flanges of the rim without localized distortion of the tire in the rim.

1,452,169. SYSTEM OF ELECTRICAL CONSTRUCTION. ARCHIBALD T. SAMPSON, Lynn, Mass., assignor to Sampson Axcess System, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed May 7, 1917. Serial No. 166,813. 1 Claim. (Cl. 247—3.)



The improved process of electrical installation which consists in providing metallic conduits, weakening a portion of said conduit at a plurality of desired points along the length thereof, the weakened portions at such points constituting a portion of an outlet receptacle therefor, installing said conduits permanently in position in a building, placing electric wires therein, then removing any desired weakened portion without injuring or disturbing the wires contained within the conduits, making a connection between the wires in the conduit and branch wires, and adding means to complete the construction of an outlet receptacle over the portion of the conduit removed.

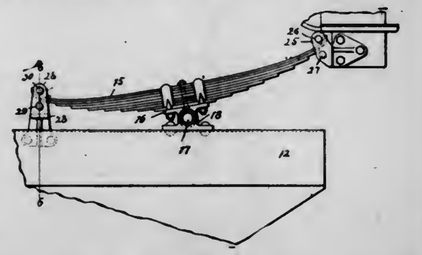
1,452,170. LEVER CONTROL FOR CLUTCH PEDALS. SWAN A. SANDBERG and ABEL F. JEANBLANC, Lee Center, Ill. Filed May 15, 1922. Serial No. 561,055. 6 Claims. (Cl. 74—39.)



6. The combination with the clutch pedal of a tractor, of a hand lever mounted at a forward position on the tractor, a connection between said lever and the clutch pedal for operating the latter, and means for holding said lever in a clutch-disengaging position.

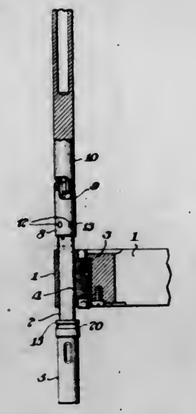
1,452,171. TRACK-LAYING TRACTOR. EDWIN H. SAVAGE, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Feb. 28, 1921. Serial No. 448,486. 5 Claims. (Cl. 105—9.)

4. In a track laying tractor, the combination of a main frame, two endless track structures which lie on opposite sides of the main frame, load supporting connections between the main frame and each endless track structure near one end of the latter, and an independent spring suspension between the main frame and an end of each endless track structure, each of said spring sus-



pensions consisting of a leaf spring which near its middle is secured with the endless track structure and has an operative connection at one end with the endless track structure and an operative connection at its opposite end with the main frame.

1,452,172. DRILL-SPINDLE-ADJUSTING MECHANISM. ROBERT F. SCOTT, Philadelphia, Pa., assignor to Edwin Harrington, Son & Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1921. Serial No. 500,578. 3 Claims. (Cl. 77—24.)

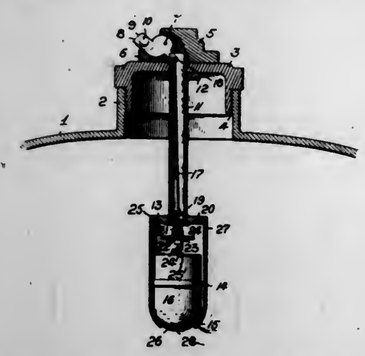


1. A drill spindle adjusting mechanism comprising a bearing, in combination with a spindle journalled therein, and means for revolving said spindle in said bearing, said spindle having a threaded end provided with a hole extending transversely therethrough, said means provided with an interiorly threaded member engaging said threaded spindle end and having a hole adapted to register with said hole first named, one of said holes having the form of a slot extending in the direction of the axis of said bearing, and a pin adapted to pass through said slot and holes aforesaid for fixing said spindle to said member.

1,452,173. LOW-WATER INDICATOR. ROYAL L. SCOVILLE, New York, N. Y., assignor to Edwin M. Rosenbluth, Wallingford, Pa. Filed Apr. 5, 1921. Serial No. 458,856. 4 Claims. (Cl. 116—118.)

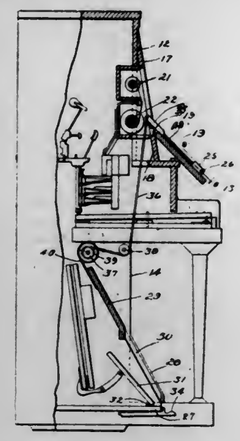
4. In a low water indicator, the combination with a radiator spout and cap, of a float located below the same and spaced therefrom, a float chamber therefor

enclosing the same, and of not much greater length than said float, said chamber having an upper and a lower opening both of which are normally below the water



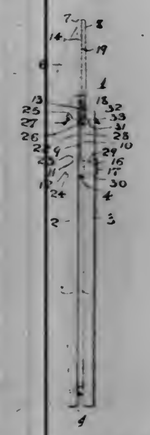
level, a tube of less diameter than said chamber connecting the same to said cap an indicator on said cap and means passing through said tube connecting said float and indicator.

1,452,174. PLAYER PIANO. WILLIAM B. TUNSTALL, Worcester, Mass. Filed July 29, 1920, Serial No. 399,738. Renewed Oct. 14, 1922. Serial No. 594,657. 8 Claims. (Cl. 84—81.)



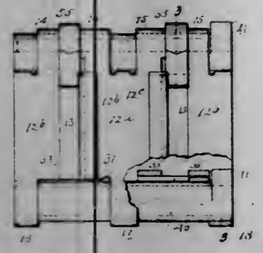
1. A player piano comprising a case including a substantially vertical case front above the keyboard, and a hood located between the ends and projecting forward from the central portion of said front, said hood having an inclined front wall which includes a hinged panel which is movable to open and close the hood, roll-carrying mechanism extending forward from the case front into said hood, and rendered conveniently accessible by its forward extension when the hood is opened, said front wall being inclined relatively to the case front and thereby adapted to serve as a music rest when the hood is closed, and manually operable means carried by said panel for controlling the operation of automatic playing mechanism within the case, said controlling means being projected from the case front by the panel, and rendered conveniently accessible, when the hood is opened, and concealed by the panel when the hood is closed.

1,452,175. FRUIT PICKER. SIMEON VAN DUYNE, Boonton, N. J., assignor to Samuel M. Doland, Boonton, N. J. Filed Apr. 8, 1922. Serial No. 550,628. 4 Claims. (Cl. 56—333.)



1. A fruit-picker comprising a pair of flexibly connected handle-members, each handle-member having a laterally extending hole, combined with a pair of frame-sections, each frame-section having a shank-portion extending along one face of a handle-member and having a part extending beyond the end of the handle-member, said shank-portion being further provided with a right-angled member disposed in the hole of the handle-member, and a second right-angled member extending along another face of the handle-member, a means of pivotal connection between the extending portions of said shank-portions, and a fruit-receiving bag having mouth-portions, said mouth-portions being secured to said projecting shank-portions.

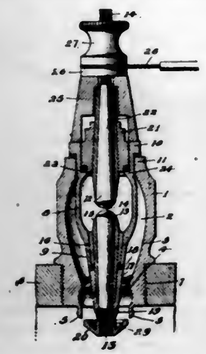
1,452,176. TRACK BELT AND UNIT THEREFOR. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 365,776. 5 Claims. (Cl. 305—10.)



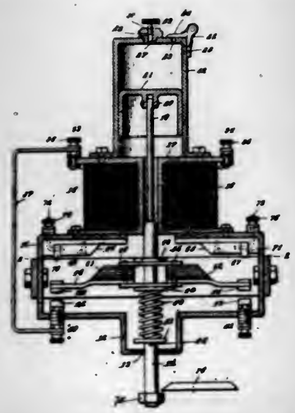
4. A sheet metal track belt, including a plurality of units, each unit comprising a top member and a bottom member spaced apart and connected together, a track portion on the top member and a pin for connecting the adjacent units together and adapted to be engaged by sprocket teeth on each side of the track portion.

1,452,177. SPARK PLUG. FRANK ARAGOSE, North Adams, Mass. Filed Apr. 2, 1920. Serial No. 370,715. 9 Claims. (Cl. 123—169.)

1. The combination with an internal combustion engine, of a spark plug extending through a wall and into the combustion space thereof, said plug being provided with spark gaps positioned one on each side of said wall and further provided with a chamber adjacent the outer gap, a restricted opening leading from said chamber and into the combustion space of said engine adjacent the inner gap, whereby the gases exploding in the outer chamber are forced through said opening with high velocity and caused to contact the electrodes of the inner gap and purge the same, substantially as described.

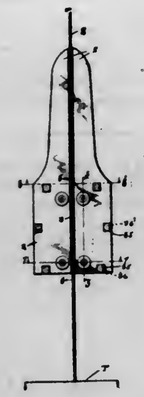


1,452,178. ELECTRIC-SIGN-FLASHING APPARATUS. ELMER L. BALLEW, Chicago, Ill. Filed Feb. 13, 1918. Serial No. 216,925. 1 Claim. (Cl. 200—90.)



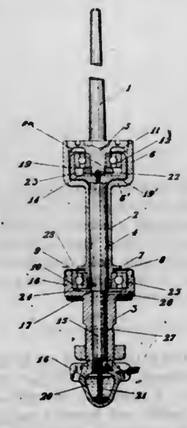
In a device of the class described, a solenoid including a coil and a core therefor, means permitting the prompt and positive movement of the core in one direction and causing the gradual return thereof to a lower position when acted upon by gravity, adjustable resilient means carried by the core, a contact making device carried by the core and under the control of the resilient device, contact members carried by said contact making device, a set of contacts with which the contacts first named cooperate when the core is drawn upwardly by the energization of the coil, additional contacts maintaining the circuit completed by the others of said contacts after the said circuit has been broken by those contacts, means for connecting the contacts with feed wires and with a load circuit, and means for completing a circuit through the coil and the feed wires when the core and contact making device moves downwardly under the action of gravity.

1,452,179. BAND-SAW GUIDE AND GUARD. FREDRICK N. BRENNER, Tell City, Ind. Filed Dec. 8, 1921. Serial No. 520,975. 1 Claim. (Cl. 143—162.)



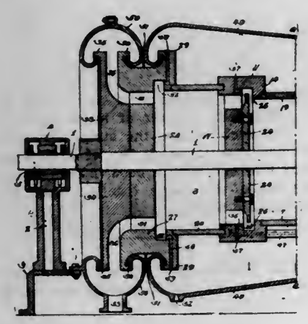
In a saw guiding device, the combination of upper and lower pairs of rollers, the rollers of each pair being spaced for receiving and guiding a saw therebetween, a saw-back-guide mounted between the upper and lower pairs of rollers, this saw-back-guide comprising a roller having its axis at right angles to a plane coinciding with the spaces between the rollers of the upper and lower pairs, and means for supporting the saw-back-guide and for adjusting the same so as to bring different parts thereof in position to contact with the back of the saw when the latter is traveling in the space between the rollers of said pairs, said means being spring pressed in the forward direction for yieldingly resisting backward movement of the saw.

1,452,180. SPINNING SPINDLE. HAROLD E. BRUNNER, Larchmont, N. Y., assignor to The Hess-Bright Manufacturing Company, a Corporation of Delaware. Filed Nov. 14, 1919. Serial No. 337,973. 9 Claims. (Cl. 118—66.)



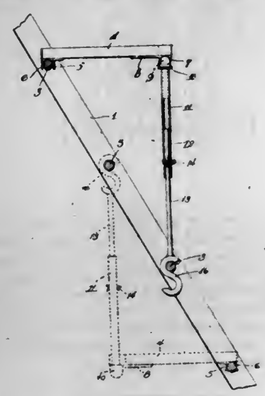
1. In a spinning spindle, the combination with a rotary blade, of a normally stationary base, a normally stationary standard carried by the base and in axial alignment with the blade, a whorl surrounding the standard and fast with the blade, the whorl having a belt receiving portion, and a pair of ball bearings comprising inner and outer rings, the inner rings whereof being mounted on the whorl above and below the belt receiving portion and the outer rings being carried by the stationary portions of the device, the said belt receiving portion of the whorl being of less diameter than the diameter of the pitch circle of the ball bearings.

1,452,181. CENTRIFUGAL AMALGAMATOR. ROLLO J. BUTLER, Tonopah, Nev. Filed June 23, 1922. Serial No. 570,356. 2 Claims. (Cl. 83—67.)



1. A centrifugal separator comprising a shaft, rotatable wheel-like members mounted on said shaft, a plurality of circular tubes connected to said members, the rims of said wheel-like members positioned in a circular housing and provided with radially distributed openings for the discharge of mercury into said housing.

1,452,182. PLATFORM LADDER JACK. CLARENCE A. BUTRUM, Holton, Kans. Filed Sept. 28, 1920. Serial No. 413,283. 1 Claim. (Cl. 304—35.)



In a ladder platform, the combination with a ladder having cross rungs, of a platform having removable spaced cleats at one end to receive one of the rungs, said platform being provided with bearing sleeves at the opposite end of the platform and having a hinge pin extending through said sleeves, elbows detachably connected with the ends of said pin, telescopic members detachably connected with the elbows and extending at right angles to said hinge pin, said telescopic members each comprising an extension sleeve and a rod, said sleeve

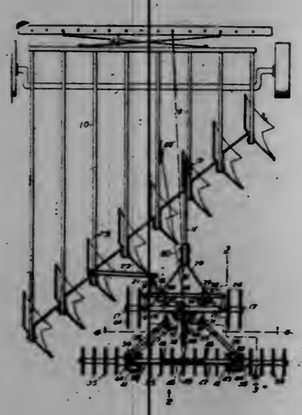
and rod in each telescopic member having openings adapted to register with each other, means for locking the extension sleeves and rods in an adjusted position, and S-shaped hooks formed integral on the free end of each of the telescopic members to engage the rungs of the ladder.

1,452,183. TATTING SHUTTLE. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1921. Serial No. 475,407. 7 Claims. (Cl. 96—22.)



1. A tatting shuttle formed of a single strip of sheet material and comprising a pair of bows united at one end by a reduced neck portion the strip being folded on itself at said neck portion and, one of said bows being equipped at its free end with a hook, means securing the free end portions of the bows together, and a bobbin mounted between said bows.

1,452,184. CLOD CRUSHER. OCTAVE CARON, Faribault, Minn. Filed Mar. 16, 1922. Serial No. 544,329. 4 Claims. (Cl. 97—6.)



1. A clod crusher for operation in conjunction with a gang of plows comprising a unit having a frame with supporting disks adjacent its opposite ends journaled to rotate and to swivel about vertical axes, means to attach the said swiveling means to operate in consonance, means to attach the unit to a beam of one of the plows, means to attach the swiveling means to a beam of another of said plows, and a second disk-supported unit attached in the rear of said first unit.

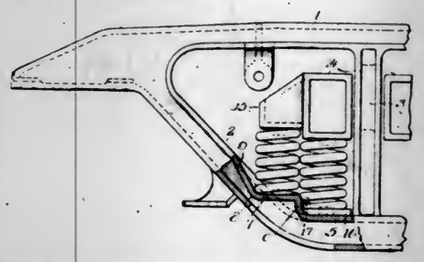
1,452,185. ALKALI-METAL PRODUCT AND PROCESS OF PRODUCING THE SAME. HARRY W. CHARLTON and RANDOLPH NORRIS SHREVE, New York, N. Y., assignors to American Potash Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 5, 1921. Serial No. 449,912. 8 Claims. (Cl. 23—22.)

1. The process of dissolving potassium from greensand which consists in heating said material with lime, water and a sodium salt having an acid radical adapted to combine with an alkali metal, substantially as described.

1,452,186. ACCELERATING AGENT IN POTASH RECOVERY. HARRY W. CHARLTON and RANDOLPH NORRIS SHREVE, New York, N. Y., assignors to American Potash Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 5, 1921. Serial No. 449,913. 3 Claims. (Cl. 23—22.)

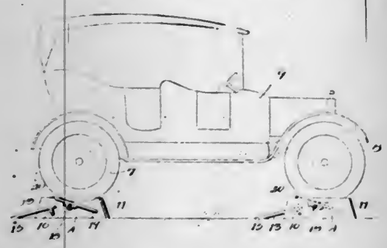
1. The process of accelerating the recovery of the potassium contained in greensand, which consists in digesting said green sand with potassium nitrate, and milk of lime under a super-atmospheric pressure and at a corresponding temperature, substantially as described.

1,452,187. CAR TRUCK. GEORGE SCOTT CHILES, Chicago, Ill. Filed May 15, 1922. Serial No. 561,133. 7 Claims. (Cl. 105—197.)



1. In a car truck, a side-frame comprising an upper compression member, a lower tension member, a column connecting said compression and tension members at the central part thereof, springs supported on said tension member on each side of said column, some of said springs being offset from the longitudinal center line of said side-frame.

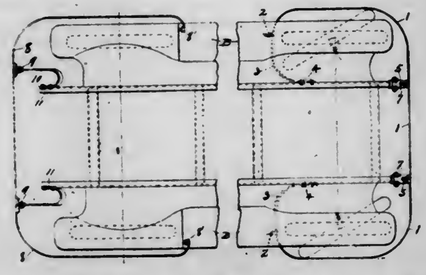
1,452,188. LIFTER BLOCK FOR MOTOR VEHICLES. BENJAMIN F. CHRIST, Ida Grove, Iowa. Filed Oct. 22, 1921. Serial No. 509,619. 4 Claims. (Cl. 254—88.)



1. A device of the character described, comprising a block adapted for facilitating the rolling of a wheel thereon, a tiltable platform associated therewith, adapted when said wheel has reached the forward end of the block to tilt forwardly and hold the wheel against return movement, and means whereby the wheel will be held against forward movement.

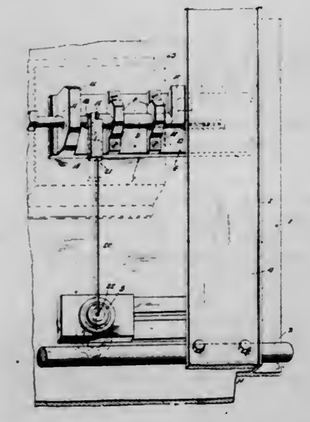
1,452,189. AUTOMOBILE GUARD AND BUMPER. EMIL CHRISTENSEN, Portland, Oreg. Filed May 7, 1921. Serial No. 467,711. 5 Claims. (Cl. 293—55.)

4. A combination guard and bumper member for automobiles, comprising a member having its middle portion adapted to act as a bumper and extending across the end of an automobile and its opposite ends bent to extend along the opposite sides of said automobile and along the sides of the opposite wheels, supporting members attached to the frame members of the automobile and to said guard and bumper member, and means pivotally connecting said guard and bumper member at



other places to said automobile, whereby it can be raised from a horizontal position to a vertical position, for the purpose indicated.

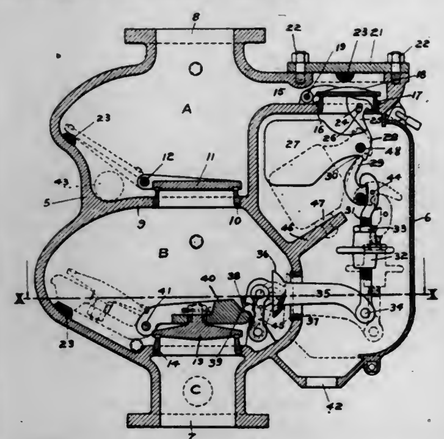
1,452,190. LOCK MECHANISM. HERMAN H. CLAUSSEN, San Antonio, Tex. Filed Apr. 11, 1922. Serial No. 551,456. 3 Claims. (Cl. 109—3.)



1. The combination with a main lock mechanism including a shiftable bolt member and a combination device subject to displacement by violence, of an auxiliary lock mechanism comprising a freely rotatable shaft, a locking head extending therefrom and angularly movable, in the rotation of the shaft, between a position out of the path of movement of the bolt member and a position in the path of movement of said member, and means tending to overbalance the shaft and rotate the same to move the locking head to locking position and including a sustaining element connected with the combination device, the said overbalancing means comprising a weight suspended beyond the shaft, and the said sustaining element comprising a relatively rigid member connected at one end to the said weight and at its other end to the said combination device.

1,452,191. DRY PIPE MECHANISM FOR AUTOMATIC SPRINKLER SYSTEMS. CURTIS T. CLIFFORD, San Francisco, Calif. Filed Mar. 31, 1919. Serial No. 286,561. 3 Claims. (Cl. 169—21.)

1. In a main valve for supplying a sprinkler system, a compartment normally containing compressed air and a compartment open to the atmosphere and a connection for high pressure water supply thereto; a main valve member closing said water connection from said atmospheric chamber; a one-way valve between said atmospheric chamber and said compressed air chamber normally held on its seat by said compressed air; a pilot valve within said compressed air chamber normally held upon its seat by compressed air and mechanism including a trigger, a pivoted weight, a latch, a link including means constructed



and adapted to vary its length, a lever carrying a valve, a tumbler engaged by the lever, said tumbler engaging the main valve member to retain it in normal closed position; said mechanism co-operating with said pilot valve, so that upon the release of the compressed air from the compressed air compartment the pilot valve opens releasing the mechanism which in turn releases the main valve member.

1,452,192. HANDLE-ADJUSTING MECHANISM. HARMON J. COOK, Torrington, Conn., assignor to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Feb. 21, 1922. Serial No. 538,333. 7 Claims. (Cl. 306—4.)



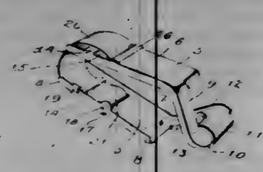
1. The combination with a machine having a vertically swinging handle provided above its pivotal point with a depending swinging brace or link; of a guide below the link and along which the cross bar of the link slides, a shoulder or stop for the link at the forward end of the guide, and means for retaining the link against said stop.

1,452,193. MANIFOLDING ATTACHMENT FOR TYPEWRITERS. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed July 20, 1922. Serial No. 576,276. 5 Claims. (Cl. 197—126.)



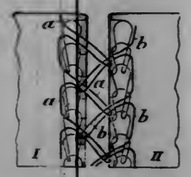
1. A manifolding attachment for typewriters comprising a rotatable shaft mounted on the machine; a plurality of independently operatable pairs of pivotally mounted spaced arms; a manifolding member carried by each pair of arms and adapted by the movement of said arms to be placed in and removed from functional position in the line of type impact; an arm-operating member fitted upon said shaft for rotation therewith and for linear movement thereon; means for controlling the linear movement of said member; and coacting devices on said member and said arms for independently selectively moving each pair of arms about their pivotal centers, by the rotation of the shaft.

1,452,194. ELECTRICAL TESTING CLIP. GEORGE B. DUSINBERRE, Elmira, N. Y. Filed June 22, 1921. Serial No. 479,571. 3 Claims. (Cl. 173—273.)



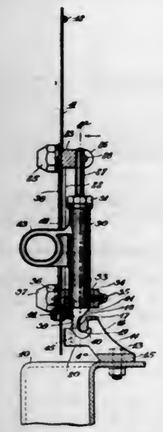
2. A test clip having handle members each including crossed portions terminating in opposed jaws, flanges extending along the edges of the handle members and the jaws, said flanges being prolonged rearwardly to form retaining means, cross-bars connecting said retaining means and tensioning means positioned between the retaining means and interlocking with the handle members forward of said cross-bars.

1,452,195. MACHINE-MADE SEAM FOR KNITTED MATERIALS AND THE LIKE. HERBERT EUGEN ESCHE, Chemnitz, Germany. Filed Jan. 13, 1922. Serial No. 528,991. 1 Claim. (Cl. 112—262.)



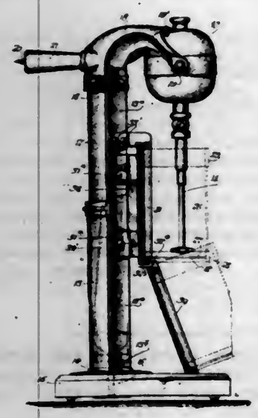
A seam for knitted materials which comprise two selvages, embodying a thread for one selvage passing under alternate loops of that selvage; and a second thread for the other selvage passing under alternate loops of said other selvage in staggered relation to said loops of the first-named selvage, said threads being interconnected in such a way that one thread passes through a loop of the other thread and then around a succeeding loop of said other thread and back through the loop through which it first passes, the loops of each thread being disposed in staggered relation to the loops of the other thread.

1,452,196. FASTENING DEVICE. GUSTAVE E. FRANQUIST, Rochester, N. Y., assignor to James Cunningham, Son & Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 26, 1921. Serial No. 448,028. 5 Claims. (Cl. 292—109.)



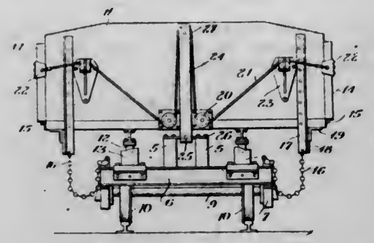
1. A fastening device for securing the motor hood of an automobile to the body thereof comprising a support projecting inwardly of the hood, a guide projecting inwardly of the hood in spaced relation with said support, a pair of telescopically extensible parts one of which is fixed at one end to said support and the other part slidably guided by said first part and by said guide for rectilinear extension and retraction, a spring resisting extension of said other part, a catch on said automobile body, a latch on said other part, and a handle on the latter projecting exteriorly through a slot in the hood.

1,452,197. DRINK MIXER. RAYMOND B. GILCHRIST, Newark, N. J., assignor to The Gilchrist Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 25, 1922. Serial No. 539,059. 53 Claims. (Cl. 259—134).



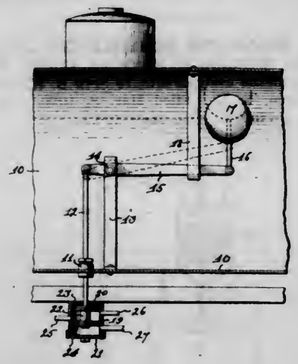
1. In a machine of the character described, the combination of a motor, an agitator driven by the motor and supported from above, means to support the motor, a guide for directing a receptacle while it is being moved by hand into operative position around the agitator, and means for securing the receptacle in its such position.

1,452,198. DUMPING CAR. GEORGE L. HANCOCK, Geneva, N. Y. Filed Oct. 25, 1922. Serial No. 596,874. 5 Claims. (Cl. 105—276.)



1. In a dumping car, supporting means, a container body mounted thereon for dumping movement to either of opposite sides, gates supported adjacent their bottoms at the sides of said body and movable to open and closed positions, flexible means connected at the ends thereof with said gates, guide means on the end of said body adjacent its bottom about which said flexible means is carried, and a member arranged on the supporting means below the top of said body for engagement with said flexible means to deflect the latter when said body is in material carrying position and to move said gates to closed position.

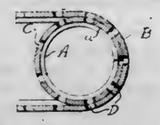
1,452,199. LOAD-CONTROLLED AIR BRAKE. BRODERICK HASKELL, Franklin, Pa. Filed Aug. 20, 1921. Serial No. 493,802. 4 Claims. (Cl. 303—22.)



3. A load brake apparatus for a car, the combination with an empty brake cylinder, a load brake cylinder, a valve device for controlling the brake pressure in either solely in the empty brake cylinder or simultaneously in the empty and load brake cylinders and a float actuated and controlled by the fluid material at high or low level and forming the load on the car for adjusting said valve device to convey the brake pressure in either of said empty brake cylinder or simultaneously in said empty and load brake cylinders.

1,452,200. METHOD OF MAKING METAL WHEEL HUBS. JOSEPH L. HECHT, Davenport, Iowa, assignor to G. Watson French and Joseph L. Hecht, Davenport, Iowa, and W. H. Stackhouse, Springfield, Ohio, composing the firm of French & Hecht. Filed Dec. 7, 1921. Serial No. 520,548. 2 Claims. (Cl. 29—174.)

1. The method of making wheel hubs with circumferential spoke chambers, which method consists in assembling a cylindrical blank within a U-shaped blank, each with a groove in one side and a corresponding protuberance on the other side, and bending the legs of the U shaped blank



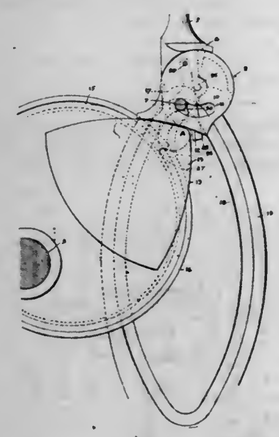
around the cylindrical blank to give the U-shaped blank cylindrical form, while causing the protuberance on the inner blank to become interlocked in the groove in the surrounding blank.

1,452,201. WAISTBAND. MILTON L. HELLER, Brooklyn, N. Y. Filed Mar. 18, 1922. Serial No. 544,914. 2 Claims. (Cl. 2—142.)



2. A waistband in combination with a pair of trousers comprising a buttonhole strip having buttonholes at intervals throughout its length, said strip being attached to said trousers a distance below the upper edge thereof, said strip being folded upon itself adjacent the lower ends of the buttonholes and again at a point adjacent the upper edge of said buttonholes, and extending down to a point adjacent the point of attachment to said trousers, a stiffening strip between the spaced folds of said buttonhole strip, and an attaching strip fastened at its upper end to the edge of said trousers, and at its lower end to said buttonhole strip adjacent its first mentioned fold.

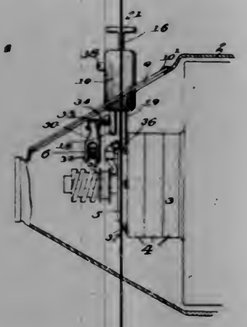
1,452,202. INTERNAL-COMBUSTION ENGINE. WILLIAM E. JOBY, Martinez, Calif. Filed June 6, 1922. Serial No. 566,207. 5 Claims. (Cl. 74—14.)



1. In an internal combustion engine, a piston rod, an engine shaft, an eccentric disc fixed to the shaft, an eccentric ring loosely surrounding the disc, a pin carried by the piston rod, a connection between said pin and the ring, a thrust member mounted so as to rock on said pin, a cam member fixed on the disc and with which said thrust member is adapted to engage, a guide having an elliptical

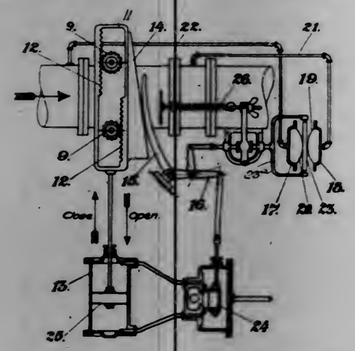
guide groove in which the pin extends, and means for preventing relative movement of the ring and disc throughout the down stroke of the piston rod and permitting relative movement thereof upon the up stroke of said rod.

1,452,203. TRANSMISSION LOCK. HERMAN F. KAELBLE, Egg Harbor City, N. J. Filed Aug. 14, 1922. Serial No. 581,735. 3 Claims. (Cl. 70—90.)



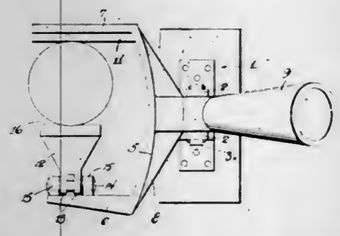
1. The combination with a transmission casing having an opening through the wall thereof and having a clutch lever shaft extending therethrough, of a base plate adapted to be secured to the casing in position to cover the opening, a block integral with said base plate and extending exteriorly of the casing, said block having a longitudinal bore formed therethrough and a socket therein in spaced parallel relation to the bore and opening through the lower face of the base plate, said socket being in communication intermediate of its length with said bore through a lateral slot, a plunger reciprocable in the bore and having a handle at the upper end thereof, said plunger being of a length to extend within the transmission casing when in extended position with respect to the block, a stop carried by said clutch lever shaft in position to engage said locking plunger when the latter is in an extended position, a second plunger slidable in the socket, said second plunger having a longitudinal slot therethrough intermediate of its length, spring means urging said second plunger toward position to engage with stops on a plate within the transmission casing, and a lateral projection extending from said first named plunger into the slot of said second named plunger whereby movement of the latter independently of the formed is limited.

1,452,204. SEPARATOR FOR GASEOUS FLUIDS. OLIVER P. LUETSCHER, Peru, Ill. Filed Nov. 19, 1921. Serial No. 516,449. 5 Claims. (Cl. 183—40.)



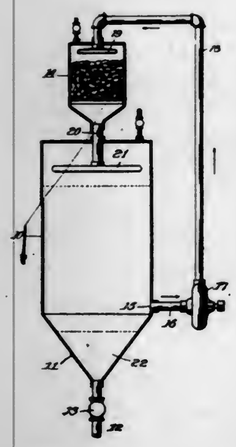
1. A separator for gases having in combination a shell having a plurality of tortuous passages therethrough, means movable transversely of the tortuous passages for controlling the flow of gases through the said passages, and mechanism operative by and in accordance with changes in the differential between the pressures at the inlet and outlet ends of said passages for shifting the controlling means to vary the number of passages through which the gas may flow.

1,452,205. POST PULLER. PEDER C. MADSEN, Granada, Minn. Filed Jan. 26, 1922. Serial No. 531,955. 2 Claims. (Cl. 254—131.5.)



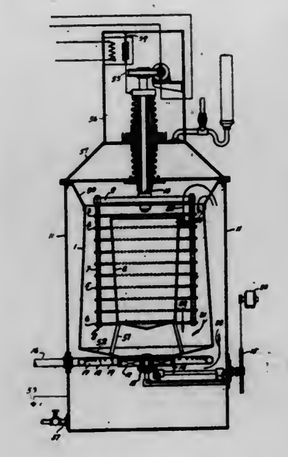
1. A post puller of the character described comprising a supporting standard equipped with a bearing rod, a substantially U-shaped bracket member pivoted on the bearing rod and including parallel arms, one of the arms being provided with a sharpened cleat to engage one side of the fence post, the other arm being mounted with a pivoted gripping dog adapted to engage the opposite side of the fence post, the said body having a socket extending from the pivoted portion in a direction opposite to that of the bracket member, and a handle adapted to be mounted in the socket.

1,452,206. MEANS FOR DEHYDRATING ALCOHOLIC LIQUIDS. MATTHEW D. MANN, Jr., Roselle, N. J., assignor, by mesne assignments, to Seth B. Hunt, trustee, Mount Kisco, N. Y. Filed Mar. 8, 1920. Serial No. 364,197. 3 Claims. (Cl. 260—156.)



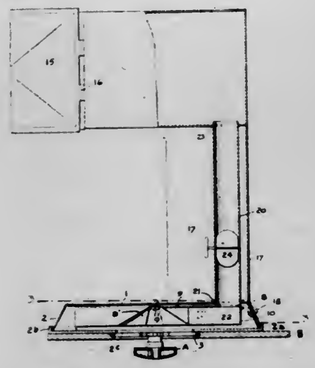
1. The process of dehydrating isopropyl alcohol which consists in admixing it with caustic alkali, permitting the aqueous solution of the caustic alkali thereby formed to separate from the dehydrated alcohol and drawing off the aqueous solution.

1,452,207. DEHYDRATOR. WYNN MEREDITH, Alameda, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Oct. 28, 1920. Serial No. 420,245. 8 Claims. (Cl. 204—24.)



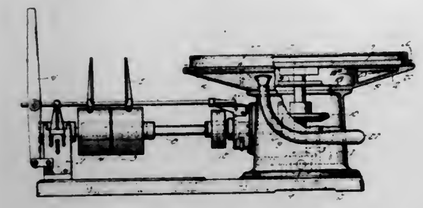
1. In combination with a treatment chamber for the dehydration of emulsions, a propeller for circulating said emulsion and driving means for said propeller, plates adapted to guide the circulation of said emulsion to direct it through a zone of treatment within said chamber, in combination with an electrode adapted to rotate between said plates.

1,452,208. COOKING DEVICE. ANTHONY MILLER, Burlingame, Calif. Filed Aug. 16, 1921. Serial No. 492,736. 3 Claims. (Cl. 126—215.)



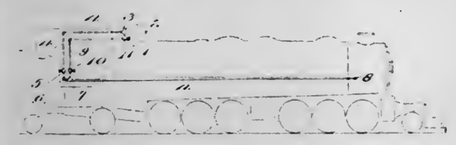
3. A cooking device comprising a member for supporting a plurality of cooking vessels in close proximity to a single burner of a gas cook stove, means for conducting heat from the burner to certain points of said member over which the vessels are disposed, which means comprises a distributor, the central portion of which is adapted to be disposed over the center of the burner, extension portions on the distributor arranged to direct the heat from said central point to the certain points of said member, and downwardly directed flanges on the margins of said central and extension portions of said distributer.

1,452,209. DISK GRINDER. JOHN MILLER, Jr., Beloit, Wis., assignor to Charles H. Besly & Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1920. Serial No. 351,759. 1 Claim. (Cl. 51—273.)



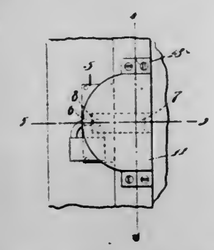
In a grinding machine, the combination of a pedestal including a flaring wall portion and a vertical partition wall, a spindle journalled in said pedestal, having a disk mounted at the upper end thereof, said flaring wall portion having a finished marginal surface spaced below the under side of said disk, and forming therewith a slot, communicating with an exhaust chamber formed between said disk, flaring wall portion and vertical partition wall, and a dust ring secured to the marginal portion of said flared wall portion and spaced radially from the edge of said disk.

1,452,210. LOCOMOTIVE COMBUSTION REGULATOR. EDMUND T. D. MYERS, Jr., Richmond, Va. Filed July 22, 1921. Serial No. 486,912. 2 Claims. (Cl. 110—150.)



1. In a locomotive combustion regulator, in combination with the smoke box, a source of boiler pressure, a pop-valve connected thereto, means to automatically discharge steam from said source of boiler pressure into said smoke box to moderate the draft, said means acting in advance of the discharge of said pop-valve, and hand-operated means for discharging steam from said source of boiler pressure into said smoke box.

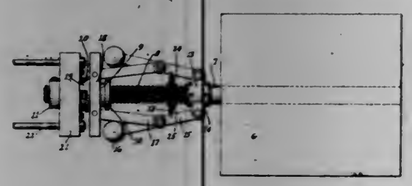
1,452,211. LATCH. WILLIAM L. MYERS, Industry, Ill. Filed Apr. 3, 1922. Serial No. 549,214. 1 Claim. (Cl. 292—205.)



In a latch, a base plate having a right angled tongue formed intermediate its ends and disposed adjacent to one of the side edges thereof, a pivoted arm having connection with the base plate and having a right angled

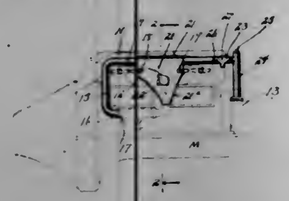
extremity cooperating with the tongue to lock the closure supporting the latch, said tongue and right angled end having openings to accommodate a locking element, a keeper including a plate having leg portions formed integral therewith, said plate adapted to overlie a portion of the base plate and the tongue, said pivoted arm adapted to move to a position to engage one of the leg members of the keeper, and the last mentioned plate providing a guard.

1,452,212. BRAKE-ACTUATING MECHANISM. ROBERT AUGUST NEAL, Lexington, Ky., assignor of one-half to Laurence J. Heymann, Lexington, Ky. Filed July 20, 1921. Serial No. 486,302. 8 Claims. (Cl. 188—162.)



1. In combination with a brake yoke and brake rods therefor, an actuating member loosely mounted in the brake yoke, a motor, and means driven by the motor for causing the actuating member to pull upon the yoke and apply the brake.

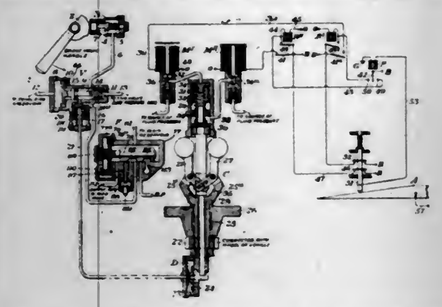
1,452,213. EXTENSION MANIFOLD. ANDREW NELSON, Milwaukee, Wis. Filed Dec. 21, 1920. Serial No. 432,197. 4 Claims. (Cl. 123—119.)



1. An attachment for internal combustion motors comprising a pipe having a return bend at one end, means for clamping said pipe with its main portion alongside and against the exhaust manifold and with its bent end in communication with the air inlet to the carburetor, said clamping means being extended to form a housing for the intake manifold, the other end of said pipe being in communication with the breather opening, and an opening in said pipe for the admission of air.

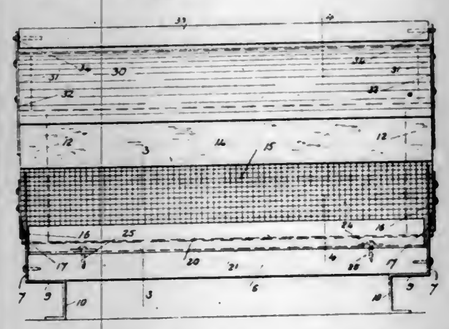
1,452,214. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. FRANK H. NICHOLSON, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1918. Serial No. 253,747. 29 Claims. (Cl. 246—74.)

16. Railway traffic controlling apparatus comprising a plurality of block sections, a vehicle; apparatus on the vehicle adapted when in one condition to cause an automatic application of the brakes if the speed exceeds a predetermined intermediate value, and when in another condition to cause an automatic application of the brakes if the speed exceeds a predetermined lower value; means for placing said apparatus in the first-mentioned condition when the vehicle enters the section in the rear of an occupied section, means for placing said apparatus in the second mentioned condition when the vehicle reaches a point at a predetermined distance in the rear



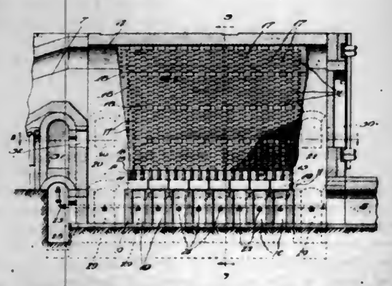
of an occupied section, and means on the vehicle acting to prevent operation of said apparatus if the brakes are applied through the usual manually operable means.

1,452,215. CHICKEN FEEDER. JESSE NULL, Arcadia, Calif. Filed Dec. 14, 1922. Serial No. 606,823. 5 Claims. (Cl. 119—52.)



3. In a chicken feeder, a base, end plates secured to the base and provided with V-shaped notches, a removable hopper provided with front and rear sides of wirework and having V-shaped end plates which fit in the notches of the end plates of the base, adjustable food retaining plates provided with base flanges which rest on the top of the base at its edges, and clip plates secured to the base and overlapping the base flanges of the retaining plates and securing them in place.

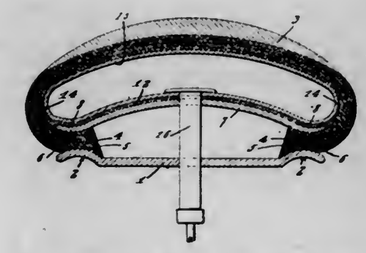
1,452,216. REGENERATOR. JAMES V. PETERKA, Indiana Harbor, Ind. Filed Dec. 18, 1920. Serial No. 431,696. 25 Claims. (Cl. 263—19.)



1. A structure of the character set forth, comprising a chamber containing an inlet and an outlet at opposite

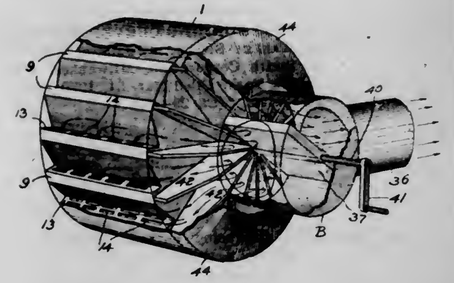
ends thereof, and a series of upwardly-extending passages substantially unobstructed from the top to the bottom thereof and communicating at opposite ends with said inlet and outlet, whereby the gases travel lengthwise of said chamber from the inlet to said outlet.

1,452,217. TIRE. FRED BROWN PFEIFFER, Akron, Ohio. Filed Aug. 16, 1921. Serial No. 492,730. 4 Claims. (Cl. 152—20.)



4. In a device of the class described, a rim; an inflatable casing, of appreciably greater width than height, having its longitudinal edges supported on the rim, the longitudinal edges of the casing being inwardly extended toward the median plane of the casing, and the casing projecting outwardly beyond all portions of the rim; a ring extended circumferentially of the casing, the longitudinal edges of the ring engaging the longitudinal edges of the casing, the ring responding freely to the inflation of the casing to exert a binding action on the longitudinal edges of the casing, the interior of the casing presenting a cross section of substantially common height, between the ring and the tread portion of the casing; and an inflating means for the casing.

1,452,218. PULVERIZING MILL. RALPH E. H. POMEROY, Canton, Ohio. Filed Jan. 18, 1923. Serial No. 613,346. 3 Claims. (Cl. 83—9.)

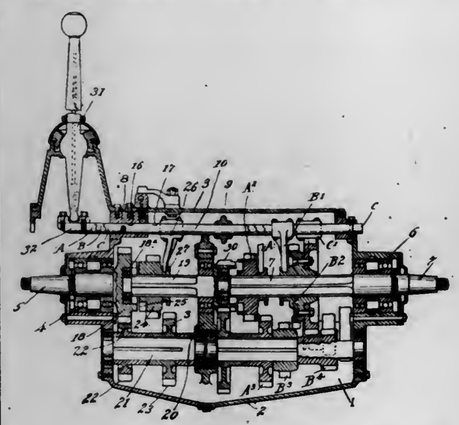


1. A pulverizing mill having in combination a drum, one of the heads provided with a plurality of ports, a distributing head provided with inlet and outlet passages communicating with said drum and adjustable means for connecting the ports in communication with the drum with the passages in distributing head.

1,452,219. ENAMEL COMPOSITION. ADOLPH F. POZDECH, Newark, N. J. Filed Dec. 23, 1921. Serial No. 524,523. 2 Claims. (Cl. 134—39.)

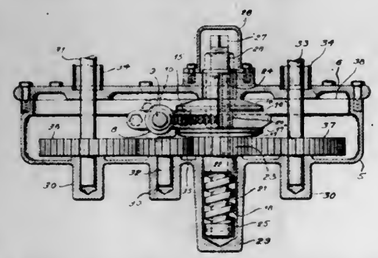
2. A quick-drying enamel composition consisting of the following ingredients in substantially the proportions given, ground zinc white one-half pint, French varnish two ounces, benzine ten drops, lacquer one-half ounce.

1,452,220. TRANSMISSION MECHANISM. GUSTAVE A. SCHACHT, Plainville, Ohio. Filed Dec. 22, 1919. Serial No. 346,468. 1 Claim. (Cl. 74—58.)



In a motor vehicle, the combination of a gear case, a driving shaft at one end thereof, a driven shaft at the other, an internal shaft located within the casing in line with the driving and driven shafts, clutch devices on the driven and internal shafts adapted to be shifted to connect the two shafts in line for direct drive, a jack shaft in the case located alongside of the driven shaft, and driven by the internal shaft, said jack shaft having gears thereon, and sliding gears on the driven shaft to mesh with said gears to provide a second and third speed for the driven shaft, a lever connected to operate said clutch devices and the sliding gears on the driven shaft by movement to a plurality of positions, a jack shaft alongside the internal shaft, and driven by gearing from the driving shaft, and a clutch device located between the driving shaft and the internal shaft, and normally in position to connect them in line for direct drive, and an independent lever for shifting out said clutch device, and a gear portion on said clutch device adapted when said independent lever is shifted to mesh said internal shafts with the jack shaft last mentioned, whereby the lever first mentioned may be employed for all normal driving changes, without modification over the usual gear shift, and the additional lever may be shifted to impart a geared drive to the internal shaft, with the functions of the main lever being not otherwise interfered with.

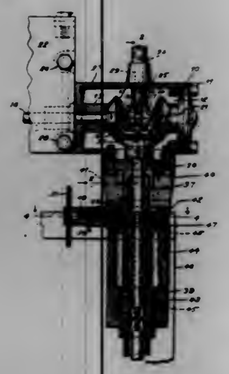
1,452,221. MECHANICAL MOVEMENT. GEORGE SLIDER, Baltimore, Md. Filed Sept. 27, 1921. Serial No. 503,563. 4 Claims. (Cl. 74—29.)



3. In a mechanical movement, the combination with a pair of discs, each comprising a bearing portion for revolubly supporting said disc and a second bearing por-

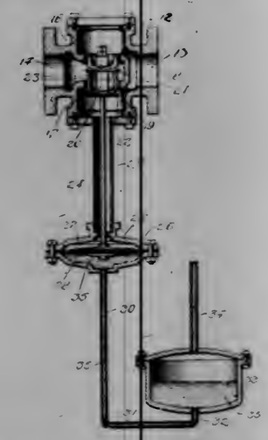
tion on one of said discs, of a gear wheel revolubly mounted on said second bearing portion, means for pressing said discs against said gear, and a gear driven by said discs.

1,452,222. GEARING. GEORGE SLIDER, Baltimore, Md. Filed Nov. 18, 1921. Serial No. 516,007. 3 Claims. (Cl. 74—101.)



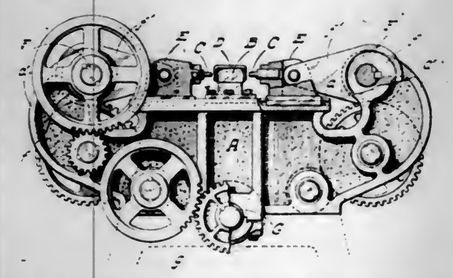
1. The combination with an arbor, a driving shaft revolubly mounted therein, a gear fixed on said shaft, and a casing open at one end and having its bottom secured to said arbor, said casting having an opening in said bottom to permit the passage of said gear therethrough, of a cap secured to said casting for closing said end, a housing in each of said casting and cap, a pintle revolubly mounted in said housings, a gear revolubly mounted on said pintle adjacent each housing and meshing with said first named gear, a squared portion on said pintle between said gears forming a shoulder for said gears, a clutch member on each gear, a cooperating clutch member slidably mounted on said portion, and means for moving said cooperating clutch member.

1,452,223. DIFFERENTIAL GOVERNOR FOR BOILER FEED PUMPS. CARL J. SMITH, Indiana Harbor, Ind. Filed Oct. 12, 1921. Serial No. 507,291. 8 Claims. (Cl. 103—19.)



1. In apparatus of the character set forth, the combination of a source of fluid pressure, means operated from said source for generating pressure, and means for maintaining, under variations of pressure of the fluid from said source, the pressure generated by said first-named means at a constant excess over the pressure of fluid supplied from said source, comprising a column of fluid, the upper portion of which is subjected to the pressure from said source and the lower portion of which is subjected to the pressure generated by said first-named means, and valve means for controlling the flow of fluid pressure from said source to said first-named means, controlled by said column of liquid.

1,452,224. PUNCHING PRESS AND DIE THEREFOR. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 20, 1919, Serial No. 331,995. Renewed Jan. 25, 1923. 6 Claims. (Cl. 164—102.)



1. In a piercing press for punching holes in the opposite flanges of a channeled bar, a frame, and a plurality of punches therein working simultaneously toward each other to offset and neutralize the opposed strains in punching, in combination with an anvil or die member fixed in the frame between the punches, the said anvil or die member being formed as a solid block upon which the channeled bar is placed with the opposite flanges of the said channeled bar engaging the side faces of the anvil, the said anvil having a bore for each punch and a common discharge chute connected with and leading from the bores, whereby the slugs produced in punching are guided away from the press.

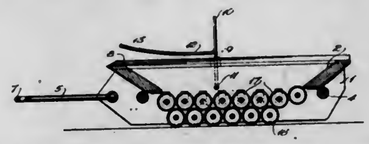
1,452,225. PROCESS OF FORMING CURVED FLANGED BARS. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,136. 10 Claims. (Cl. 29—152.)



1. The process of producing curved, flanged bars, which consists in confining a single wide metal plate by pressure upon the sides thereof, subjecting the plate to bending pressure applied to the edges thereof at separated points along the opposite edges of the blank, such separated points at one edge of the plate being staggered with relation to the points on the opposite edge, whereby the metal of the plate will be caused to flow away from the longitudinal center line of the plate, punching a curved blank from the plate, and turning the curved side margins of the blank from the plane thereof to form the flanges.

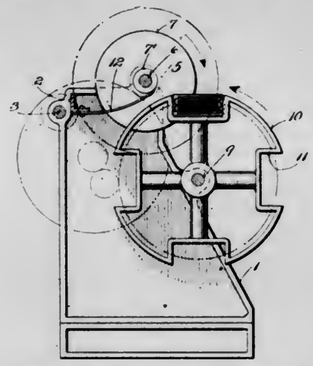
1,452,226. BOLL-WEEVIL DESTROYER. MADISON A. SPENCER, Yonkers, N. Y., assignor of one-half to Bert E. Nussbaum, Muskogee, Okla. Filed Nov. 21, 1922. Serial No. 602,331. 7 Claims. (Cl. 43—138.)

1. A boll-weevil destroyer comprising a frame having an open top and bottom, superposed series of horizontally arranged juxtaposed rollers supported in the lower portion of said frame and disposed transversely of the same,



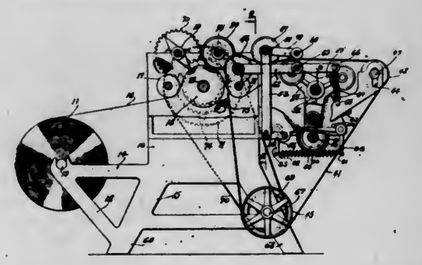
the lower series of rollers movably supporting said frame, and draft means connected to one end of the frame.

1,452,227. PAPER-CUTTING MACHINE. LOUIS A. STRAUBEL, Green Bay, Wis. Filed Nov. 8, 1921. Serial No. 513,632. 3 Claims. (Cl. 164—68.)



1. A machine for cutting elongated folded paper stock into shorter lengths comprising a revolubly mounted carrier having a plurality of aligned pockets and spaces therebetween, a revoluble cutter having a plurality of circular knives adapted to enter the said spaces between the pockets as the carrier revolves, said pockets extending in unbroken continuity from space to space to provide a support for each shorter length of folded paper stock, and means for rotating said carrier and cutter.

1,452,228. REWINDING MACHINE. LOUIS A. STRAUBEL, Green Bay, Wis., assignor to Straubel Machine Company, Green Bay, Wis. Filed Mar. 14, 1922. Serial No. 543,546. 11 Claims. (Cl. 242—55.)

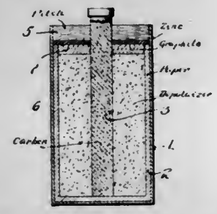


1. The combination of a plurality of pulleys, a belt running over said pulleys, a plurality of core spindle pulleys, means carrying said last named pulleys, means supporting said first named pulleys, and adjusting means cooperating with said belt for deflecting said belt to a greater or lesser extent to engage one of said core spindle pulleys.

1,452,229. BALLOON ENVELOPE MATERIAL AND PROCESS OF MANUFACTURING THE SAME. ERICH TRENCKMANN and BRUNO TRENCKMANN, Berlin-Tempelhof, Germany, assignors to B. G. Tertilwerke G. m. b. H., Berlin-Tempelhof, Germany. Filed Aug. 27, 1921. Serial No. 495,033. 23 Claims. (Cl. 149—1.)

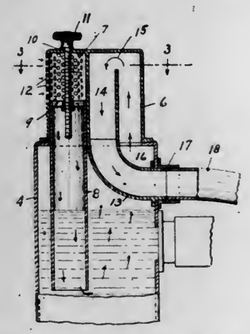
16. The herein described process of manufacturing gas tight balloon envelope material which consists in cleaning the entrails of quadruped animals, then adhesively attaching the pieces together so that they overlap, one piece bridging the joints between two adjacent pieces, then stretching the same, then spreading adhesive material on one face thereof and then applying fabric to said face.

1,452,230. HIGH-POWER DRY BATTERY. ALFRED A. WELLS, Montclair, N. J., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 209,925. 2 Claims. (Cl. 204—29.)



1. A dry cell comprising a metal container serving as one electrode, a carbon electrode therein, a depolarizing mass comprising conducting carbon and an insoluble oxidizing agent between the carbon electrode and the metal electrode, and localized bodies containing a higher proportion of carbon than the bulk of the depolarizing mass between the two electrodes, whereby internal low-resistance paths are provided.

1,452,231. AIR-WASHING ATTACHMENT FOR CARBURETORS. JACOB L. WELLS, Minneapolis, Minn. Filed Apr. 23, 1918. Serial No. 230,199. 2 Claims. (Cl. 123—25.)



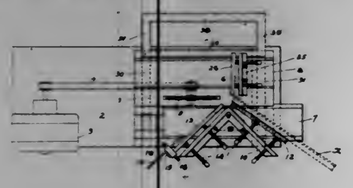
1. The combination, with an internal combustion engine carburetor, of a radiator and casing mounted thereon and having perforations in its walls, a pipe open at each end fitting within said casing and communicating with said perforations and having its lower end depending within the water in said radiator, means for adjusting said pipe to increase or decrease the volume of air intake, said casing having an elbow formed thereon, one end of said elbow communicating with the space in said radiator above the level of the water and the other end having a coupling in the wall of said radiator and a pipe leading from said coupling to the carburetor.

1,452,232. ALLOY. CARL J. ZAISER, Milwaukee, Wis., assignor to American Metal Products Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 23, 1921. Serial No. 471,914. 1 Claim. (Cl. 75—1.)

An alloy consisting of the following ingredients in substantially the following proportions, namely:

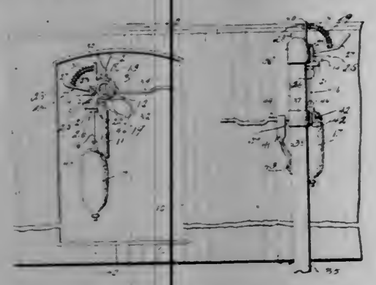
	Per cent.
Iron	13 to 60
Copper	82 to 30
Aluminum	5 to 10

1,452,233. COMBINED HOLDING-SETTING DEVICE FOR CIRCULAR SAWS. LOUIS ZSUFFA, New York, N. Y. Filed Apr. 7, 1921. Serial No. 459,378. 1 Claim. (Cl. 143—169.)



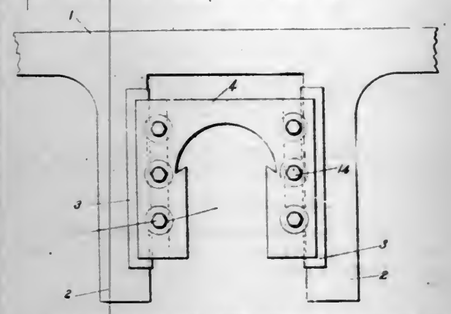
In a mitering machine, two sections adapted to slide longitudinally of the table, an L-shaped angle piece, also L-shaped in cross section, removably secured to one of said sections; a straight piece, L-shaped in cross section, removably secured to the second sliding section in a perpendicular direction to the plane of the saw blade, straight bars for receiving the material to be cut, adjustably connected to the faces of said angle piece and said straight piece; thumb screws passing through the vertical sides of said L-shaped pieces and adapted to adjust said bars therewith with relation to said angle and straight pieces, and a stop carried by one of said bars for gauging the length of the material to be cut.

1,452,234. MAIL-BAG DELIVERY AND RECEIVING CRANE. HARRY BARLOW and JOHN ERNEST HENRY MATHIES, East Moline, Ill. Filed Jan. 28, 1922. Serial No. 532,453. 3 Claims. (Cl. 258—9.)



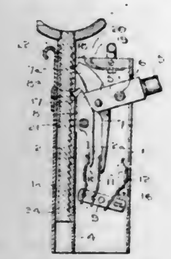
1. In a mail bag delivery apparatus, the combination with a crane arm, of a collar engaged with the outer end thereof, means passing through the collar and through the arm to hold the collar in place, and provided with a rearwardly extending projection, a guard plate secured to the collar and provided with means engageable upon opposite sides of the metallic loop of a mail bag, to hold said loop on said rearwardly extending projection, so as to prevent the loop from rocking, and a spring tensioned angle clamping plate hingedly mounted upon the guard plate and bearing upon the metallic loop for holding it against the guard plate.

1,452,235. WEDGELESS DRIVING BOX. ANDREW S. BRANDOCK, Pueblo, Colo. Filed Apr. 30, 1921. Serial No. 465,685. 3 Claims. (Cl. 105—79.)



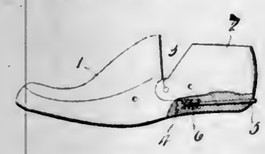
1. In a device of the class described, a driving box; frusto-conical rollers; means for mounting the rollers on the box for rotation and for endwise movement; and spring means for advancing the rollers.

1,452,236. LIFTING JACK AND HAULER. CHARLES EDMUND CLEWS and ARTHUR WYNDHAM BEEBE, Auckland, New Zealand, assignors to Percy Nichol Kingswell, Auckland, New Zealand. Filed June 6, 1922. Serial No. 566,291. 6 Claims. (Cl. 254—110.)



1. Apparatus of the kind described comprising a load bearing member operable through a casing; a pawl pivoted to the latter adapted to hold said member against the weight of the load borne thereby; an operating lever pivoted to said casing carrying at one end a pawl adapted to engage and operate said member; said lever having its pawl carrying end formed to force the load holding pawl into engagement with the load bearing member on said inner end being lowered.

1,452,237. SHOE LAST. WALTER E. DENTTEN, Milwaukee, Wis. Filed Mar. 4, 1922. Serial No. 541,189. 4 Claims. (Cl. 12—141.)



1. In combination with a shoe last including relatively adjustable toe and heel sections, the heel section having a longitudinal way formed in its lower portion, and a catch of a length greater than the heel section slidable in said way having its inner end normally extended beyond the inner end of the heel section adapted to have abutting engagement with an adjacent portion of the toe section, as and for the purpose set forth.

1,452,238. METHOD OF MAKING FLANGED TANK COUPLINGS. JOHN JOSEPH FINNIGAN, Atlanta, Ga. Filed Apr. 3, 1922. Serial No. 549,095. 4 Claims. (Cl. 29—148.2.)



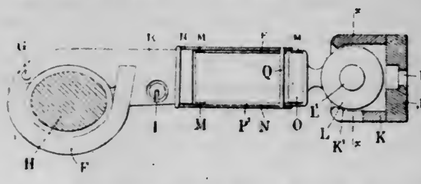
1. A method of preparing flanged couplings for positioning, consisting in cutting away of a portion of the flange, bending the flange and finally filling the cut out portion of the flange with a malleable metal.

1,452,239. METHOD FOR UTILIZING SOLID FUEL. HERMANN GÜTLIN, Basel, Switzerland, assignor to Elektrizitatswerk Lonza, Gampel, Switzerland, a Corporation of Switzerland. Filed Feb. 20, 1922. Serial No. 538,055. 5 Claims. (Cl. 44—7.)



1. The method of heating a body, consisting in attaching to said body, by means of an adhesive, a mass of solid fuel material, and igniting said mass.

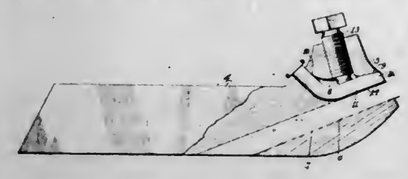
1,452,240. APPARATUS FOR PREVENTING THE STEALING OF MOTOR CARS. MARIUS ANDRÉ HAMON, Paris, France. Filed Oct. 6, 1920. Serial No. 415,164. 1 Claim. (Cl. 70—129.)



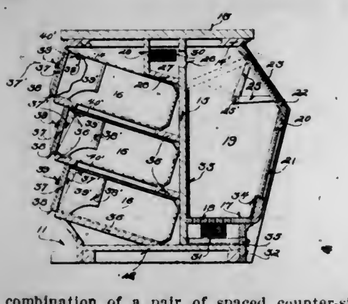
In an apparatus for locking the steering wheel of a motor car for preventing the stealing of the car, comprising a base member adapted to be fixed to the car body and provided with a hemispherical cup, an extensible arm having a spherical member at one end adapted to fit into said cup to form a ball and socket joint, a hooked member pivotally connected to the free end of said arm, a locking device adapted to lock the said hooked member upon the said steering wheel, and fixing means for attaching the base member to the car body, the arrangement whereby the fixing means is concealed or exposed respectively when the arm is engaged with or disengaged from the steering wheel comprising a transverse aperture through the said ball such aperture when the arm is in its disengaged position being adapted to allow the fixing means to be placed in position or removed.

1,452,241. TOOL HOLDER. CHARLES A. HUESTIS, Elmhurst, N. Y. Filed Apr. 28, 1921. Serial No. 465,170. 2 Claims. (Cl. 29—96.)

1. A tool holder comprising a stock having a tool-receiving socket and a key chamber at one side of the same having an offset portion opening through the stock, a key in the chamber adapted to bear against the tool placed on the socket and having an offset portion in the offset portion of said key chamber, and a set screw threaded in the stock and bearing against the key.

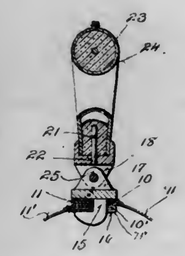


1,452,242. COUNTER. THOMAS P. JENSEN, Racine, Wis. Filed Mar. 21, 1922. Serial No. 545,453. 1 Claim. (Cl. 211—11.)



The combination of a pair of spaced counter-sides, a longitudinal partition extending from one of said sides to the other, a plurality of tiers of receptacles on one side of said partition, said tiers taking up an entire side of said counter, a plurality of bins on the other side of said partition, said bins taking up said other side of the counter, a screen in one of said sides, a counter top resting on said sides and said partition, a vertical member depending from said counter top and spaced from said partition, said screen being located between said vertical member and said partition, and a longitudinal member extending from said vertical member to said partition and from one of said sides to the other, said partition, said top, said vertical member and said longitudinal member forming a longitudinal chamber for conducting air from said screen, said partition having an opening therein leading into said chamber, a screen covering said opening, the bottom of said bin having a plurality of apertures therein, and a second screen in one of said sides for leading air from said side to the apertures in the bottom of the said bin.

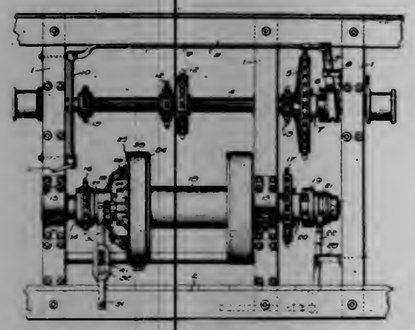
1,452,243. HANDLE FOR TRAVELING BAGS. ARTHUR KAHLOW, Mayville, Wis. Filed Mar. 14, 1922. Serial No. 543,575. 3 Claims. (Cl. 190—55.)



1. The combination of a metallic frame member, a base member, a depending hook extending downwardly thru said

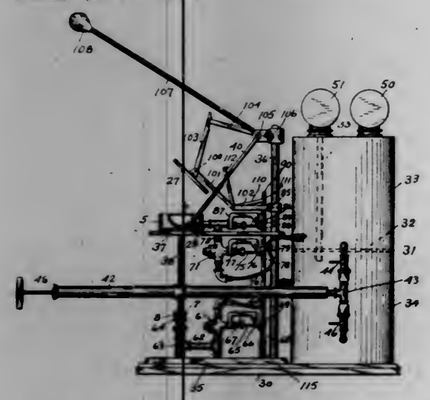
metallic frame member, a second metallic member, said second frame member having a slot therein for the reception of said depending hook, said depending hook being adapted to hold said frame members in close contactual relationship, a handle, and means pivotally connecting said handle to said base member.

1,452,244. CONTROL MECHANISM FOR WELL-DRILLING MACHINES. HAROLD J. LOCKHART, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Oct. 21, 1921. Serial No. 511,914. 5 Claims. (Cl. 192—17.)



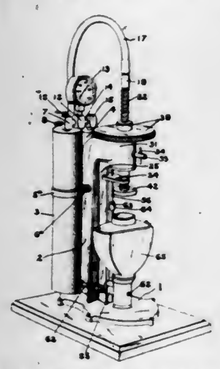
2. In a rotary draw works, a drive shaft, a drum shaft, a drum mounted thereon, a friction clutch, one element of said clutch being carried by said drum, the other element being loosely mounted on said drum shaft, means for driving said loosely mounted element from said drive shaft, a brake band arranged on said drum, a lever controlling said brake band, and a pivotally mounted control lever connected to the loosely mounted element of said clutch, said clutch lever being provided with an elongated slot for the reception of said brake lever, whereby movement of said brake lever in one plane will actuate said clutch lever.

1,452,245. APPARATUS FOR CASTING ARTICLES OF METAL. STANMORE PICKENS MARSHALL, Cincinnati, Ohio, assignor to H. B. Byrd Manufacturing Company, Incorporated, Washington, D. C., a Corporation of Virginia. Filed Oct. 23, 1921. Serial No. 509,593. 9 Claims. (Cl. 22—73.)



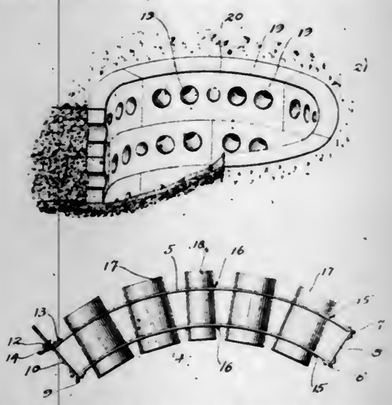
1. In an apparatus for casting articles of metal the combination with a flask adapted to enclose a mold of porous material and having an upper and a lower opening, of a receptacle above the upper opening of the flask and in communication therewith, a crucible within the receptacle above the upper opening of the flask and at such distance from it as to leave a substantial air space between the crucible and the flask, means for creating a partial vacuum within the flask, and means for discharging the contents of the crucible into the upper opening of the flask.

1,452,246. ART OF AND APPARATUS FOR CASTING METALS. STANMORE P. MARSHALL, Washington, D. C., assignor to H. B. Byrd Manufacturing Company, Incorporated, Washington, D. C., a Corporation of Virginia. Filed Dec. 30, 1922. Serial No. 609,781. 21 Claims. (Cl. 22—69.)



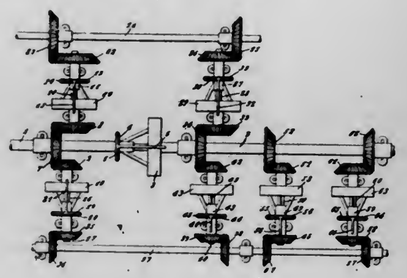
1. In the art of casting by machines in which two pressure containers are employed, the steps of filling said containers simultaneously from a single source of pressure, then cutting off the pressure between said containers, then fusing the material to be molded in temporary retaining means separated by an air gap from means for molding said material, then producing a vacuum in said molding means by an ejector device operated by pressure derived from one of said containers, and finally forcing said material through said temporary retaining means by fluid pressure derived from the other of said containers into said molding means.

1,452,247. MOLD FOR MAKING CEMENTITIOUS PRODUCTS. THOMAS A. MAYBERRY, Los Angeles, Calif., assignor, by direct and mesne assignments, of four-fifths to Walter E. Winfield, La Verne, Calif., and one-fifth to M. Thompson, Pomona, Calif. Filed Oct. 31, 1921. Serial No. 511,735. 3 Claims. (Cl. 25—121.)



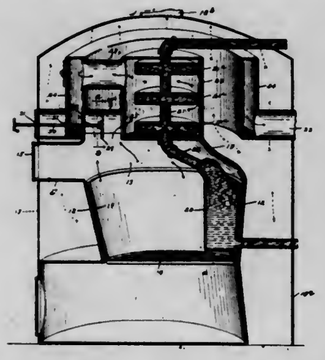
2. In a mold for concrete wall blocks, the combination of an end member, concentric arcuate members, one of the arcuate members being connected with the end member and the other arcuate member being hinged to the end member, a gate hinged to one of the arcuate members, and means to releasably fasten the gate to the other arcuate member.

1,452,248. AUTOMOBILE TRANSMISSION. ALFRED E. MILARCH, Atlanta, Ga., assignor to Isabel Ammon Milarch, Atlanta, Ga. Filed July 7, 1921. Serial No. 482,976. 3 Claims. (Cl. 74—59.)



1. In transmission mechanism a guide plate having a transverse channel, there being spaced longitudinal channels in the plate intersecting the transverse channel, blocks slidably mounted within the respective longitudinal channels for attachment to controlling clutches, each of said blocks having a transverse groove, all of the blocks being normally located across the transverse channel with the grooves in alignment, a shiftable lever and means carried by the lever and shiftable along the transverse channel for engagement with any one of the grooved blocks and shiftable with the lever to move the engaged block within the longitudinal channel.

1,452,249. COMBINATION HEATER. DANA O. MILLER, Reading, Mass. Filed Nov. 29, 1922. Serial No. 604,024. 3 Claims. (Cl. 126—101.)



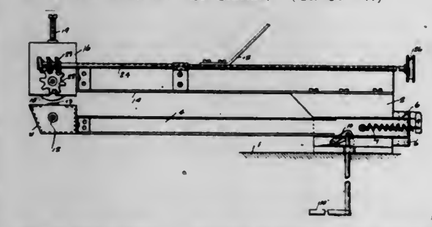
1. A combination heater comprising a domed fire-pot, a water-circulating system including a water leg in the fire-pot and a riser extending upward through the dome, an inner drum enclosing the riser, an outer drum spaced from the inner drum, a flue connecting the upper portions of said drums, the dome being provided with an inner outlet communicating with the inner drum, and with an outer outlet communicating with the outer drum, means for closing either outlet and leaving the other open, the arrangement being such that the hot products of combustion pass wholly through the inner drum, and are concentrated on the riser when the outer outlet is closed, and pass wholly through the outer drum, and are excluded from the riser when the inner outlet is closed, and a casing enclosing the said heater, and provided with means for the admission and discharge of air.

1,452,250. TAG. LAWRENCE LUDLOW MOORE and FREDERICK W. RADCLIFFE, Los Angeles, Calif.; said Moore assignor to said Radcliffe. Filed Feb. 23, 1922. Serial No. 538,759. 1 Claim. (Cl. 40—2.)



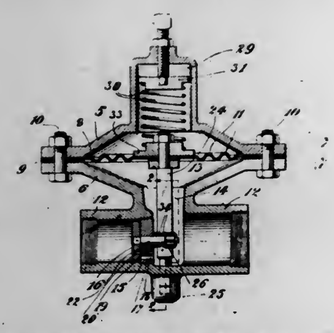
A tag for use on delicate articles comprising an elongated body of pasteboard onto which the price of the article and other data pertaining thereto may be written, and a soft cloth covering applied to the back of the tag and being of the same area as the back whereby to prevent the edges of the tag from scratching and marring the delicate article to which it is attached, said cloth covering and said pasteboard body being formed with registering openings for the reception of a tie cord.

1,452,251. SEAM PRESSER FOR SHOE UPPERS. EDWARD D. MORRIS, Chicago, Ill. Filed Sept. 24, 1921. Serial No. 502,953. 14 Claims. (Cl. 69—7.)



12. A seam presser of the character described comprising a base member having a groove open at one side; an arm adapted to swing into and snugly engage said groove and be rigidly supported against movement in all directions except toward the open side; and removable means for preventing movement of said arm toward said open side.

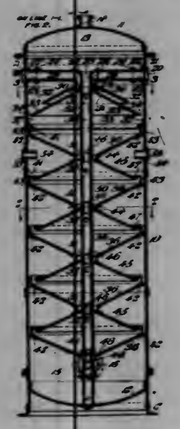
1,452,252. AUTOMATIC SAFETY EXPANSION VALVE. JOSEPH MÜLLER, Dayton, N. J. Filed May 12, 1922. Serial No. 560,409. 4 Claims. (Cl. 50—23.)



1. An automatic expansion safety valve, comprising a casing provided with an inlet and an outlet opening, a pressure influenced diaphragm within the casing, a valve

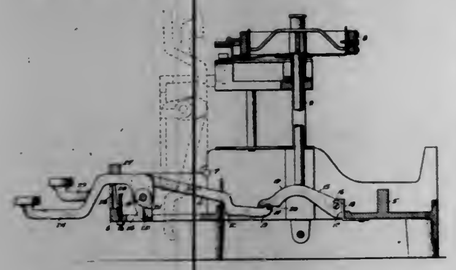
seat between the inlet opening and the interior of said casing having a series of spaced openings in radial alignment, and successively decreasing in diameter from the outer margin of said seat inwardly, a valve plate on one side of said seat having a series of spaced openings, arranged in circles of different radii, and in staggered relation to each other, the openings of said valve plate being adapted to register with openings of similar diameter in said seat on rotation of said valve plate, and means connected with said diaphragm and valve plate adapted to impart a rotary movement to said valve plate.

1,452,253. LIQUID AND VAPOR SEPARATOR. HENRY G. NEVETT, Tampico, Mexico. Filed Jan. 8, 1921. Serial No. 435,884. 14 Claims. (Cl. 183—25.)



1. In a separator, a casing, means for delivering a liquid and gaseous or vapor mixture thereto to flow by gravity therethrough, means for spreading a portion of said flowing liquid, means for bringing said portion together again, and escape means for gases or vapors separated from said liquid, said means being arranged to carry said gases or vapor away from the path of said flowing liquid without remixing with said liquid.

1,452,254. FOLDING TYPEWRITER. CARL O. NOACK, Stamford, Conn., assignor to The Hammond Typewriter Company, a Corporation of New York. Filed Mar. 21, 1921, Serial No. 453,864. Renewed Oct. 2, 1922. Serial No. 591,987. 6 Claims. (Cl. 197—186.)



1. In combination with a typewriter having a main frame keyboard carrying frame foldable relatively to the main frame and a shiftable type carrier mounted on the main frame; an actuator arm for the type carrier, and key-actuated means mounted in the keyboard carrying frame and coacting with said actuator arm in the normal position of the frame, said means remaining relatively stationary and moving as a unit with said frame throughout the folding movement thereof.

1,452,255. CARTRIDGE FUSE. MANUEL R. RODRIGUES, Brooklyn, N. Y. Filed July 7, 1920. Serial No. 394,429. 4 Claims. (Cl. 200—132.)



1. In a device of the class described, a casing, a closure therefor, a dual member attached in a horizontally movable relation at the end portion of the casing and comprising a supplemental closure, and a fuse element the end of which is held between the members of the supplemental closure.

1,452,256. PERCOLATOR. EDWARD G. ROWLEY, Newark, N. J., assignor of one-half for Sun Typewriter Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 10, 1921. Serial No. 491,067. 7 Claims. (Cl. 53—3.)

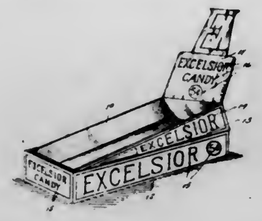


1. A percolator comprising a body having its walls extended below the bottom thereof, a heating coil in the space below the bottom, said coil having its end elements extending into said body, and a tube removably engaging one of the end elements, said tube extending centrally to the upper part of said body.

1,452,257. DISPLAY CONTAINER AND METHOD OF ADVERTISING IN CONNECTION THEREWITH. JOSEPH B. SINGER, Brooklyn, and ARTHUR B. LEVY, New York, N. Y. Filed July 16, 1919, Serial No. 311,208. Renewed Feb. 28, 1923. 2 Claims. (Cl. 40—7.)

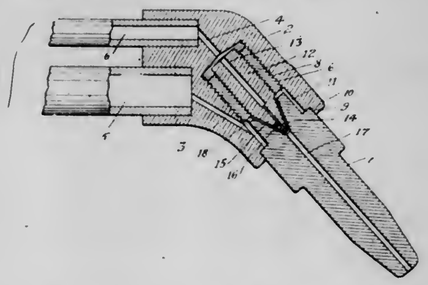
1. A display carton comprising a box body, and a cover adapted to telescope therewith and to be inverted

to receive the inclined body in the display position of the carton, said box body having on its sides diagonally ex-



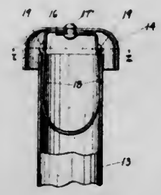
tending lines adapted to register approximately with the top edge of the inverted cover to indicate the correct positioning of the carton parts.

1,452,258. WELDING-TORCH TIP. ELMER H. SMITH, Minneapolis, Minn. Filed May 12, 1919. Serial No. 296,489. 4 Claims. (Cl. 158—27.4.)



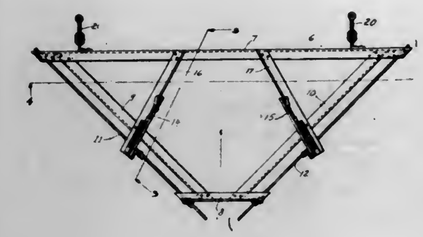
4. In combination a head having therein a screw-threaded socket with oxygen and acetylene passages in the head leading to said socket, a screw-threaded tip in said socket and in turn having a screw-threaded socket therein terminating in a conical wall, a screw threaded plug having a longitudinal passage therethrough and a conical end adjustable in the tip socket to leave an annular space between the conical end of the plug and the interior conical wall of the tip socket, said tip also having ports leading from said conical space to the head socket and to the outer end of the tip as described.

1,452,259. BREATHER TUBE. LYLE K. SNELL, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 24, 1920. Serial No. 412,489. 11 Claims. (Cl. 121—194.)



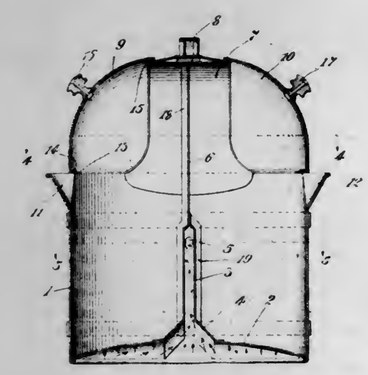
1. In combination, a breather tube, a cap therefor and yieldable supporting means for the cap slidable within the tube and having means to prevent movement of the cap to closed position.

1,452,260. ROAD DRAG. MARTIN STOFFEL, McHenry, Ill. Filed Oct 18, 1921. Serial No. 508,521. 1 Claim. (Cl. 37—170.)



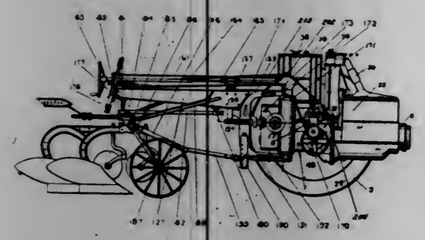
A road drag including a triangularly shaped frame comprising angular front and rear frame members and opposite diverging angular side frame members, angular reinforcing members secured to the front frame member and the side frame members, diverging blades hingedly carried by the front and rear frame members, lug members carried by the blades, an operating lever pivotally carried by each of the reinforcing members and secured to said lugs, and a toothed segment carried by the reinforcing members for engagement with the catch mechanism of the lever to prevent movement thereof and whereby the blades are held rigid during operation.

1,452,261. COOKING AND WASH UTENSIL. WILLIAM E. WARNER, Linden, N. J. Filed Sept. 7, 1921. Serial No. 499,085. 3 Claims. (Cl. 53—1.)



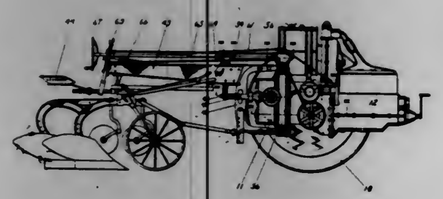
1. A utensil comprising a body having a concave bottom with an opening in its innermost portion, relatively deep tapering walls secured about the bottom opening, said body having an enclosed space therewithin connected at its base to the tapering walls and a plurality of outlets communicating with said space through the sides of the body, said plurality of outlets being widely spaced around the body, the enclosed space being of substantially the same width as the upper ends of the tapering walls.

1,452,262. TRACTOR. EDWARD H. BELDEN, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 9, 1919. Serial No. 329,429. 29 Claims. (Cl. 180—54.)



1. In a machine of the class described, an engine casing having a flared circular opening, a transmission casing having a circular end portion for connection with said opening, said end portion having integral pads at its upper part forming a radiator support and a radiator seated on said pads.

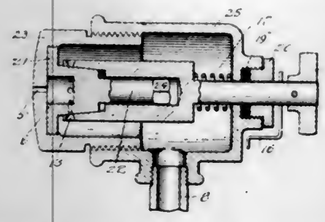
1,452,263. STEERING MEANS FOR TRACTORS. EDWARD H. BELDEN, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Oct. 9, 1919, Serial No. 329,429. Divided and this application filed Nov. 22, 1920. Serial No. 425,899. 8 Claims. (Cl. 180—12.)



1. In a self propelled vehicle having driving wheels and a driving motor, steering mechanism therefor comprising a shaft having a hand wheel at one end thereof, an oscillatable steering member, means for operatively connecting said member with an intermediate part of said shaft, means at the other end of said shaft for connecting the same with said motor to be rotated thereby in either direction independently of said driving wheels, and means independent of said hand wheel for controlling the aforesaid means connecting the motor and the shaft.

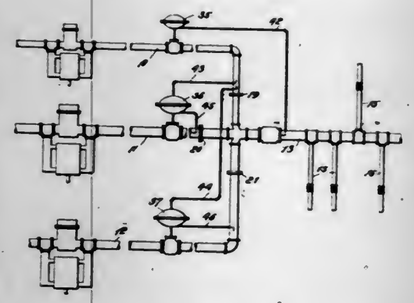
1,452,264. ADJUSTABLE SPRAY NOZZLE. HARRY D. BINKS, River Forest, Ill. Filed Mar. 9, 1921. Serial No. 451,023. 3 Claims. (Cl. 299—118.)

1. In a spray nozzle, a casing enlarged at one end and having an outlet, a cup-like member fixedly secured within the casing with its open end facing and communicating with the outlet and having its periphery spaced from the casing interior, said cup-like member having a plurality of pairs of lateral ports extending from its interior through its periphery, and a rotatable stem in the casing having a cup-shaped end rotatably mounted over the periphery of the cup-shaped member



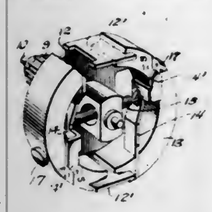
and having a single pair of ports for selective register with the respective ports of a pair of ports of the cup-shaped member.

1,452,265. METHOD AND APPARATUS FOR PROPORTIONALLY REGULATING THE FLOW OF FLUIDS. CHARLES S. COLLINS, New York, and LOUIS ROESSEL, Brooklyn, N. Y. Filed Apr. 1, 1919. Serial No. 286,813. 20 Claims. (Cl. 137—78.)



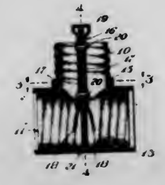
3. The method of regulating the proportional flow of fluids through orifices which consists in maintaining on opposite sides of the orifices pressure variations equal or in contant relation to each other and controlling the initial pressures on the fluids in accordance with the final pressure.

1,452,266. CENTRIFUGAL GOVERNOR. HENRY F. DOBBIN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1920. Serial No. 428,695. 4 Claims. (Cl. 188—184.)



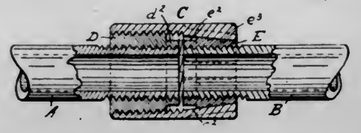
3. A centrifugal governor comprising an arc-shaped fly-weight, an adjustable member supported on one of said weight and substantially parallel to a chord extending between the ends thereof, a second fly-weight, a retractile spring attached to said adjustable member and adapted to restrain both fly-weights against centrifugal motion.

1,452,267. CONNECTING DEVICE FOR ELECTRIC CIRCUITS. SAMUEL M. ESLER, Chicago, Ill., assignor to Esler Electric Manufacturing Company, Marion, Ind., a Corporation of Indiana. Filed Aug. 7, 1919. Serial No. 315,927. 7 Claims. (Cl. 173—335.)



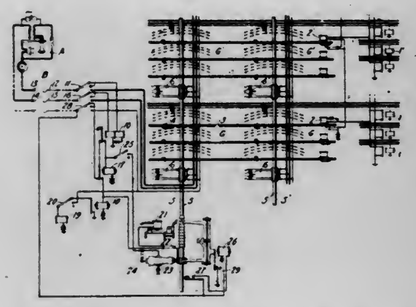
1. In a device of the class described, the combination of a screw-shell, a strip of insulating material held in position in said screw-shell by engagement at its side edges therewith, being in spaced relation to the screw-shell about the greater portion of the inner face thereof, a second screw-shell connected electrically with said first named screw-shell, and electrically connected contacts supported by said strip in operative relation to said screw-shells and insulated from said screw-shells by said trip.

1,452,268. COUPLING FOR PIPES, CONDUITS, ETC. FREDERIC W. ERICKSON, Tarrytown, N. Y. Filed Apr. 28, 1921. Serial No. 465,331. 5 Claims. (Cl. 285—120.)



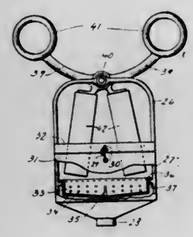
4. A coupling for the purpose described, comprising two internally threaded bushings of relatively hard and soft material, the harder bushing having ratchet-shaped teeth at one end to engage the adjacent end of the softer bushing, and an enclosing sleeve having an internal formation to draw the bushings into tight endwise relationship.

1,452,269. TELEPHONE-EXCHANGE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1920. Serial No. 374,534. 11 Claims. (Cl. 179—18.)



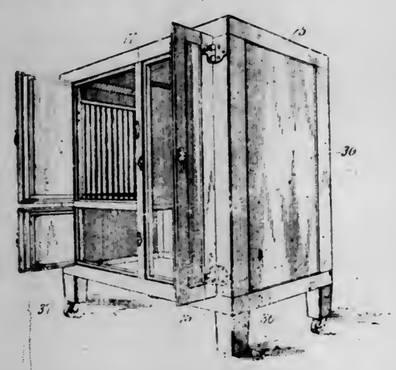
1. In a telephone system, a sender, a selector, a plurality of trunks terminating in said selector and arranged in equivalent subgroups, means for preselecting a subgroup containing an idle trunk, and means including said sender for operating said selector to select said idle trunk.

1,452,270. LEMON SQUEEZER. WILLIAM E. GRAY, Chicago, Ill. Original application filed Nov. 13, 1920. Serial No. 423,770. Divided and this application filed Sept. 24, 1921. Serial No. 503,053. 7 Claims. (Cl. 100—41.)



7. A device of the class described comprising an upper bracket and a rectangular case detachably connected thereto, a perforated rectangular container detachably mounted in said case, means for retaining fruit at the center of said container, and a pair of flanged squeezer blades pivotally mounted in said bracket and centered above said retaining means and container.

1,452,271. REFRIGERATOR CONSTRUCTION. HERBERT J. GWYER, Yonkers, N. Y. Filed May 22, 1920. Serial No. 383,346. 11 Claims. (Cl. 217—7.)

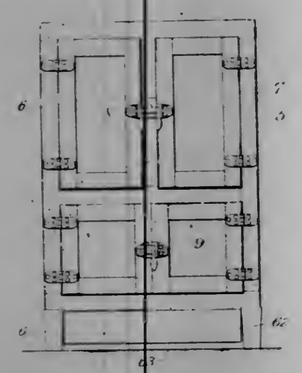


1. In a refrigerator construction, four sides, a top unit, a bottom unit, four corner posts, a tie beam across the ends of two of said corner posts and secured thereto for holding the corner posts rigidly together, said top and bottom units fitting over the said sides and the ends of said posts, one of said units having a groove for receiving said tie beam, and rods passing longitudinally of said corner posts and engaging said top and bottom units for drawing the latter together and securing all of said parts together in cabinet formation.

1,452,272. REFRIGERATOR CONSTRUCTION. HERBERT J. GWYER, Yonkers, N. Y. Filed July 30, 1920. Serial No. 400,208. 12 Claims. (Cl. 217—7.)

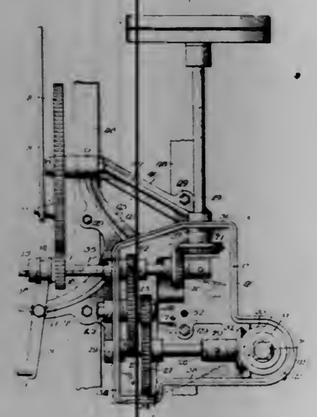
1. In a construction of the character described, a front panel unit comprising corner posts, top and bottom tie

beams secured to the upper and lower ends of said posts, a cross beam secured to said posts intermediate the ends thereof, a vertical beam secured to said cross beam and to one of said tie beams, fillet pieces secured to said cross and vertical beams and forming with said tie beams jambs for doors, a back panel unit including corner posts,



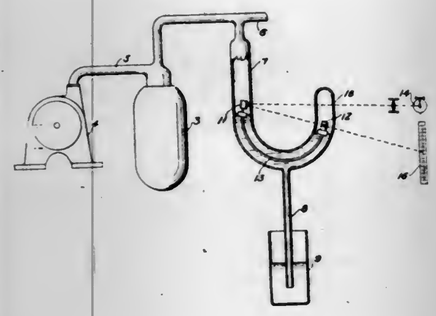
side panel units, and top and bottom panel units fitting over the ends of and securing said panel parts together to form a cabinet.

1,452,273. MECHANICAL MOVEMENT AND BASE THEREFOR. CHARLES F. HENRY and JOHN M. HULETT, Belvidere, Ill., assignors to National Sewing Machine Company, Belvidere, Ill., a Corporation of Illinois. Filed Apr. 18, 1921. Serial No. 462,239. 5 Claims. (Cl. 74—50.)



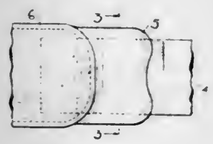
1. As a new article of manufacture, the casting for a gearing support, comprising a bottom plate of generally rectangular form surrounded by side and end walls, a cover adapted to fit the top margins of said walls, means for removably securing the cover to the casting, one of the walls having a plurality of shaft bearings, a recess in the opposite wall, an arm projecting from one side provided with a lever support at its end, a second projecting arm provided with a shaft bearing, a brace arm, and means for securing said arms and the bottom plate to a fixed support.

1,452,274. PRESSURE GAUGE. WILLIAM G. HOUSKEEPER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1919. Serial No. 338,071. 8 Claims. (Cl. 73—31.)



1. A pressure gauge comprising a transparent tube having a plurality of arms adapted to be partially filled with a sealing fluid, one of said arms being connected to the apparatus to be evacuated, means provided with a reflector and floating on the fluid in both arms and means for indicating the deviations in the path of a beam of light from said reflector.

1,452,275. METHOD OF MAKING LEADING-IN CONDUCTORS. WILLIAM G. HOUSKEEPER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 158,574 filed Mar. 30, 1917. This application filed Feb. 27, 1920. Serial No. 361,706. 6 Claims. (Cl. 49—81.)

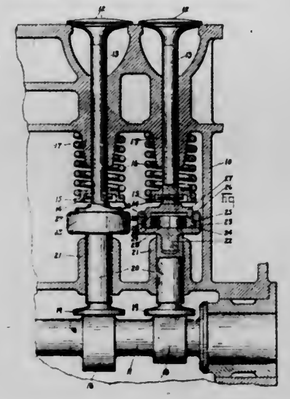


5. The method of making a seal between a metallic conductor and a vitreous material which consists in shaping the conductor into a ribbon form having a width at least ten times its thickness and edge angles of not more than eight degrees, heating the conductor until its surface is covered with oxide, and then embedding it in such vitreous material without the addition of a flux thereto.

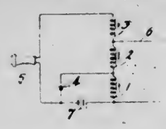
1,452,276. AUTOMATIC TAKE-UP DEVICE. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,768. 12 Claims. (Cl. 123—90.)

1. In an automatic take-up device, the combination with a member to be actuated, operating mechanism therefor, a recessed member mounted upon said operating mechanism having an inwardly disposed inclined face,

a plurality of wedge-shaped members seated upon the inclined face of the last mentioned member and co-operating with the member to be actuated to compensate for lost motion between said member and the operating mechanism.

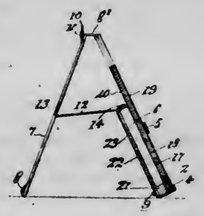


1,452,277. TELEPHONE SUBSTATION SET. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 8, 1917. Serial No. 195,364. 13 Claims. (Cl. 179—81.)



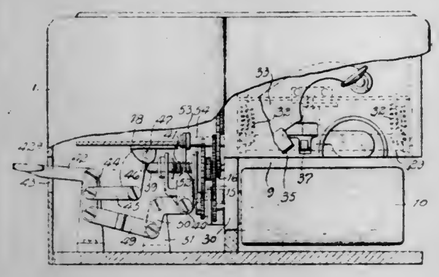
1. A telephone circuit including three elements which consist of a line, a receiver and a transmitter, a transformer associated with said elements, said transmitter being connected across a coil of said transformer, said receiver being connected across said coil and another coil of said transformer, said line being connected across all the coils of said transformer, said coils being so wound and arranged that current passing through them from one extreme electrical terminal to the other extreme electrical terminal of said transformer produces a series aiding effect in said transformer as a whole.

1,452,278. DISPLAY CONTAINER AND HOLDER. HERMANN KIND, Stapleton, N. Y. Filed May 12, 1921. Serial No. 468,874. 3 Claims. (Cl. 206—44.)



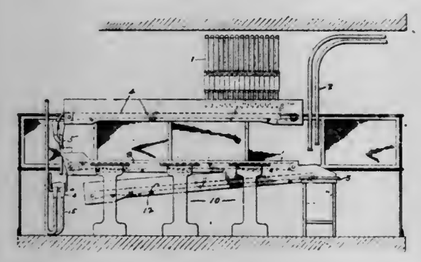
1. A display container and holder comprising a thin body portion having display spaces at one side thereof and compartments for stock at the other side thereof, and a cover secured to the upper portion of the body adapted to close the stock compartments and acting as an easel to support the body in an inclined position on a show-case or the like.

1,452,279. FABRIC MEASURING AND COST COMPUTING MACHINE. GEORGE B. KYLE, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 7, 1921. Serial No. 513,303. 9 Claims. (Cl. 33—133.)



1. In a fabric measuring machine comprising a presser roller, and marking means to mark the edge of the fabric, and to raise the presser roller when the said means is actuated, the combination of a measuring roller, indicating mechanism, resetting means, for returning the indicating mechanism to the zero position, a movable member independent of the marking means, and means actuated by said member for raising the presser roller and for simultaneously actuating the resetting mechanism to reset the indicating mechanism to zero.

1,452,280. PNEUMATIC-DISPATCH SYSTEM. JAMES G. MACLAREN, Mamaroneck, N. Y. Filed Aug. 19, 1920. Serial No. 404,637. 17 Claims. (Cl. 243—1.)



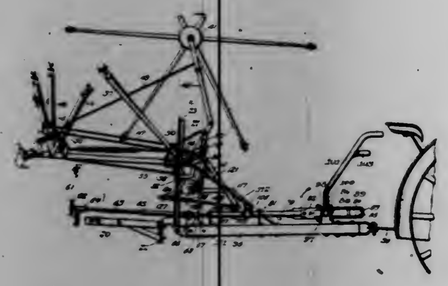
9. In a dispatch system, a belt for conveying carriers, a pneumatic dispatch tube arranged to receive carriers from said belt and a second conveying belt arranged to receive carriers from said tube.

1,452,281. METALLIZING ARTICLES. QUINTIN MARINO, Hampstead, London, England. Filed Sept. 10, 1921. Serial No. 499,820. 2 Claims. (Cl. 204—8.)

1. A process of metallizing articles composed essentially of non-conductive ceramic ware, which comprises applying to the surface of the article, while such surface is substantially free from glaze, a solution of silver nitrate in an alcoholic solvent, allowing the alcohol to evaporate, applying to the surface a reducing agent containing the

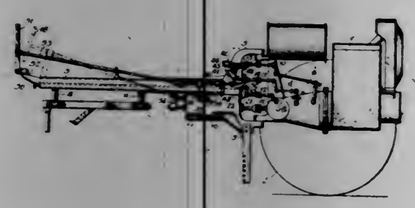
formic acid radical, brushing the surface of the article with a metallic brush, applying to the surface of the article, a warm solution containing silver cyanide, washing the article, and thereafter electro-depositing a metallic coating upon said article.

1,452,282. CONTROLLING MECHANISM FOR HARVESTERS. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 26, 1919. Serial No. 279,438. 21 Claims. (Cl. 56—22.)



1. In combination, a harvester, adjusting mechanism carried thereby, power connections for actuating said mechanism, a draft member connected to the harvester and manually operable controlling means for said connections mounted on said draft member.

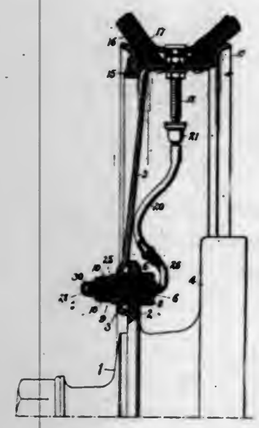
1,452,283. TRACTOR. LEROY C. SHONTS and OTIS W. HOWARD, Moline, Ill., assignors, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed July 10, 1920. Serial No. 395,420. 15 Claims. (Cl. 180—12.)



1. A tractor having a power plant, driving mechanism including a clutch and transmission, steering mechanism independent of the driving mechanism, and controlling means for the clutch, transmission, and steering mechanisms operable by a single member that is movable forward, backward, to the right, to the left, or in any combination of these directions.

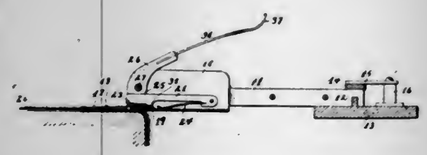
1,452,284. TIRE-INFLATING ATTACHMENT FOR DISK WHEELS. JOSEPH A. STEINMETZ, Philadelphia, Pa. Filed Apr. 11, 1921. Serial No. 460,408. 1 Claim. (Cl. 152—12.)

A pneumatic tired wheel for vehicles comprising a hub, a disk detachably mounted upon said hub, bolts upon the hub extending through the disk, nuts upon the bolts for securing the disk upon the outer face of the hub, one of said bolts having an air passageway formed therethrough, said last mentioned bolt having a nipple formed upon the outer end thereof for the attachment of an air supply pipe, a cap adapted to fit loosely over the end of said



nipple, said cap being detachably secured upon the nut and removable with said nut from the bolt carrying the same, and means forming a confined air passageway between the inner end of the bolt and the pneumatic tire.

1,452,285. PILE-CUTTING DEVICE. PAUL A. WAGNER, Jersey City, N. J. Filed Mar. 21, 1922. Serial No. 545,399. 14 Claims. (Cl. 139—62.)

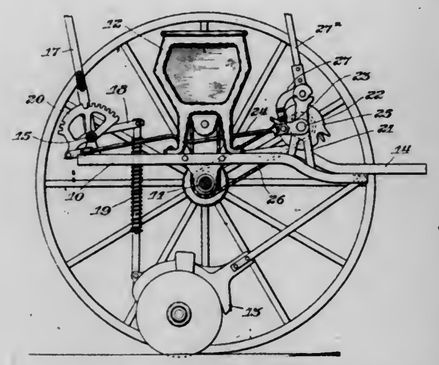


14. In a device of the character set forth, a carrier, a fixed jaw thereon, a movable jaw loosely mounted on said carrier, the adjacent faces of said jaws arranged to strike one upon the other in the closing movement, and movable means on said carrier separate from said movable jaw and arranged to act upon said movable jaw and close the latter in such biting contact upon said fixed jaw.

1,452,286. POWER-LIFT DRILL. HARRISON B. BOZARD, Hamilton, Ontario, Canada, and CHARLES W. ROBINSON, Auburn, N. Y., assignors, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed July 15, 1920. Serial No. 396,402. 5 Claims. (Cl. 97—72.)

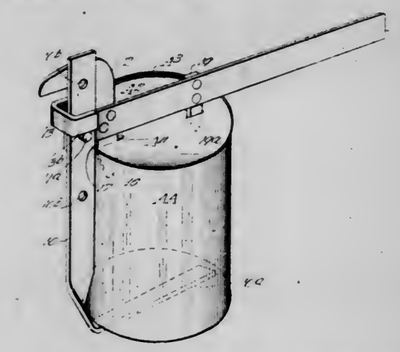
4. An implement comprising the combination of a wheel supported frame, a gang of drag-bars pivoted to the frame, a sectional rock-shaft journaled on the frame, a lifting connection between each drag-bar and the shaft,

means for oscillating each section of the rock shaft independently to lift and lower the drag-bars connected to



that section, and a single traction actuated lift device connected to all the shaft sections for oscillating them jointly.

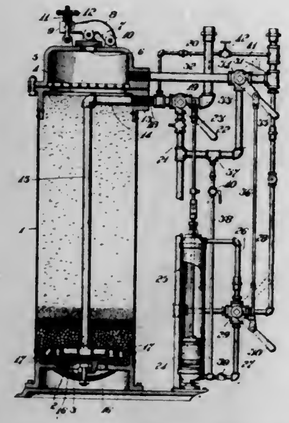
1,452,287. CAN OPENER. ALBERT C. BURKE, La Crosse, Wis. Filed July 16, 1921. Serial No. 485,290. 8 Claims. (Cl. 164—119.)



1. An implement for opening cans comprising a bar having a pair of spaced cutting points thereon adapted to cut openings in the can at diverse places by an inward bending of the wall of the can, one of the cutters being arranged to leave a portion of the wall free from the inward bend of the substance of the wall, and the other to make an air vent in the wall.

1,452,288. WATER-SOFTENING APPARATUS. JOHN E. CAPS, Wilmette, Ill. Filed Oct. 28, 1918. Serial No. 259,901. 4 Claims. (Cl. 210—24.)

1. Water softening apparatus comprising a housing for a bed of zeolite, a salt chamber connected therewith, means for introducing salt into said chamber at intervals, a water supply pipe connected with the chamber, and a service pipe connected with the housing relatively arranged to cause water to flow through the bed of zeolite from the chamber to the service pipe, a drain pipe connected with the serving pipe, a three-way valve normally maintaining the housing connected with the service pipe and adapted to be positioned to connect the same with the drain pipe, fluid pressure actuated means for actuating said valve, connection between the fluid pressure actuated means and water supply pipe, a valve controlling the same for causing said three-way valve to be turned to either of its two positions, means for controlling the speed of movement of said three-way valve in one direction, a valve controlling the water supply to said chamber, and con-



nection between said water-controlling valve and the valve controlling the pressure actuated means for causing the same to open and close in unison.

1,452,289. ENSILAGE-CUTTER-KNIFE ADJUSTMENT. EDWARD S. CHARLES, Berwyn, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Apr. 7, 1921. Serial No. 459,263. 5 Claims. (Cl. 146—26.)

1. In an ensilage cutter, a flywheel, a knife support mounted on said flywheel comprising a plurality of members, and means comprising an L-shaped bolt connecting said members for adjusting said support.

1,452,290. PLAN SIFTING MACHINE. HERMANN CONRAD, Neustadt, Haardt, Germany. Filed Nov. 16, 1921. Serial No. 515,727. 1 Claim. (Cl. 83—38.)



In a plan sifting machine, in combination, two oscillatory sieve-boxes, a belt-driven crank-disc horizontally ar-

ranged between the latter and balanced around its oscillatory centre, and crank-pins on said crank-disc attached to said sleeve-boxes, one of said crank-pins lying in the central axis of said crank-disc and the other at 180° thereto relatively to said oscillatory centre, substantially as and for the purpose set forth.

1,452,291. RESILIENT WHEEL FOR VEHICLES. JOSEPH L. DONAT, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,257. 2 Claims. (Cl. 152—33.)



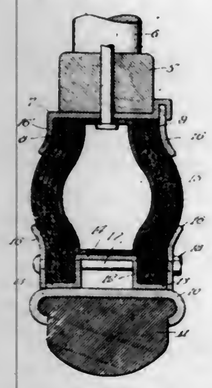
1. A device of the character described having in combinative association a pneumatic tire casing with laterally extending, circumferential beads, near its outer edge; a cushion tire having similar beads near its inner edge, overlying the pneumatic tire; a ring between the casing and tire; and metal side rings, one on each side of the tire and casing, each ring having outwardly curved, circumferentially extending parts to overlie the respective beads on both tires, and an inner outwardly turned annular portion adapted to partially enclose the pneumatic tire casing; and bolts passing thru said side rings and the intermediate ring to hold the parts together.

1,452,292. RESILIENT WHEEL FOR VEHICLES. JOSEPH L. DONAT, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,258. 1 Claim. (Cl. 152—33.)



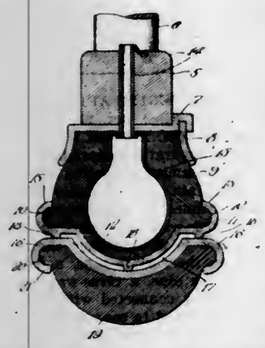
A resilient tire for a wheel having in combination a felly; a spaced apart outer concentric ring; two flat resilient rings having their inner and outer circumferential edges bolted to the felly and to the outer ring, respectively; two cushion rings of resilient material each having its outer side surface substantially convex and its inner side surface concave, with their concave surfaces confronting, thereby forming a substantially circular, circumferentially extending opening between the cushion rings, said composite cushion ring being within and substantially filling the opening between the felly and outer ring and the two side rings so that the cushion rings and side rings together form a cushion which expands and contracts laterally as a unit under a wheel load; and two reinforcing metal rings on each side of the structure, one pair bolted to the felly and the other pair to the spaced apart ring to limit the lateral movement of the flat resilient rings.

1,452,293. RESILIENT TIRE. JOSEPH L. DONAT, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,259. 1 Claim. (Cl. 152—33.)



A resilient wheel having in combination a two part casing provided by two like normally flat resilient rings, each ring consisting of a plural ply fabric of uniform thickness throughout; a rim to hold the inner edges in place, having flanges of uniform thickness; an outer rim having an inwardly extending abutment, comprising a channel opening outwardly, to support the inner tube and to overlie the outer edges of the flexible rings; flanges engaging the outer surfaces of the flexible flat rings and bolts passing thru both flanges, both rings and the channel structure to hold the assembled parts together.

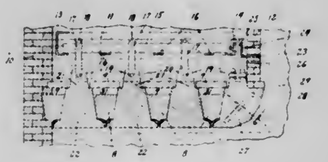
1,452,294. RESILIENT WHEEL. JOSEPH L. DONAT, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,260. 1 Claim. (Cl. 152—33.)



A device of the character described comprising an annular casing substantially U-shape in cross section having relatively thick side walls joined by a relatively thin

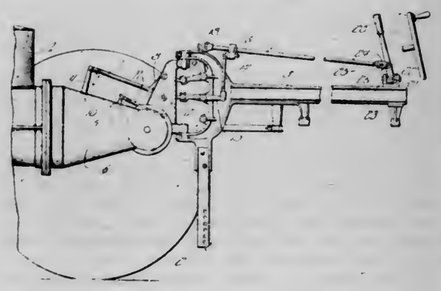
transversely curved peripheral wall of uniform thickness and extending radially beyond the abrupt terminal edges of the side walls, said side walls providing abrupt shoulders at their junctions with the peripheral wall; integral annular beads extending laterally from the lower edges of the side walls, and a rim having parts underlying the shoulders provided by the juncture of the side walls with the peripheral wall and inwardly curved edges overlying said beads and an intermediate curved peripheral portion in intimate contact with the intermediate peripheral wall.

1,452,295. FIRE ARCH FOR FURNACES. ERNST EMIL FROZETH and TERRY BLINT, Minneapolis, Minn. Filed May 24, 1921. Serial No. 472,261. 3 Claims. (Cl. 110—99.)



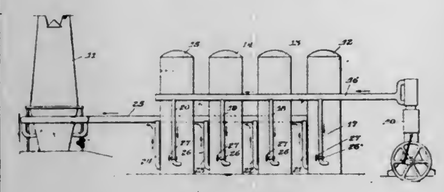
1. A fire arch of the class described consisting of a number of suspension blocks, the same being widest at their lower ends and arranged so as to form with their lower ends the entire underside of the arch, means for hanging the suspension blocks in a boiler or furnace, and a number of downwardly tapered wedge blocks adapted to be inserted and substantially fill the space in between the suspension blocks above said lower ends.

1,452,296. CONTROLLING MECHANISM FOR TRACTORS. OTIS W. HOWARD, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Aug. 5, 1920. Serial No. 401,440. 7 Claims. (Cl. 180—77.)



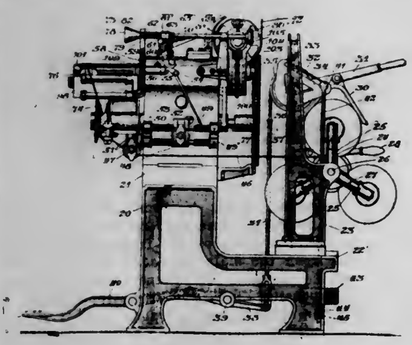
1. A tractor having a power plant, clutch mechanism, transmission mechanism, a coupling frame extending rearwardly, a lever positioned near the rear of the coupling frame and mounted so as to be movable in two planes, and controlling means connecting the lever with the tractor mechanisms so that movements of the lever in one plane operate the clutch, and movements in another plane operate the transmission.

1,452,297. SAFETY DEVICE FOR HOT-BLAST STOVES. HENRY PHELPS HOWLAND and FRANK ALBERT WILEY, Chicago, Ill., assignors, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed June 27, 1918. Serial No. 242,325. 25 Claims. (Cl. 137—144.)



6. In combination, a plurality of valves, independent actuating mechanisms for said valves, and controlling means for each of said actuating mechanisms for preventing the operation of one of said mechanisms to close one of said valves unless one or more of the remaining valves is open.

1,452,298. CONTROLLING MECHANISM FOR BALLING MACHINES. MATHIAS J. KASPARI, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Feb. 5, 1918. Serial No. 215,495. 8 Claims. (Cl. 242—37.)



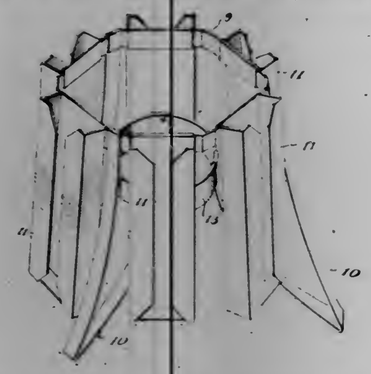
1. The combination with a balling machine including a spindle, a twine guiding member, and actuating means therefor; of a spring pressed slidable member adapted to be engaged by the twine and normally placing the twine under tension and a throw-out device for the actuating means including an element in the backward path of said slidable member and positioned to be engaged thereby when the twine releases said slidable member.

1,452,299. ANTISEPTIC CONTAINER. FRANK C. LEAHY and GEORGE H. HILEMAN, Detroit, Mich. Filed Dec. 9, 1921. Serial No. 521,221. 2 Claims. (Cl. 167—3.)

1. In a sanitary receptacle for combs and brushes, a container having a removable cover, a rack adapted to be removably received within said container so formed as to provide a plurality of brush and comb receiving pockets arranged around a centrally positioned support for a removable vessel, and a vessel adapted to contain a disinfectant compound removably carried by said support.

2. In a sanitary receptacle for combs and brushes, a container having a removable cover, a rack adapted to be

removably received within said container having a plurality of brush and comb receiving pockets, said rack having legs of such a character as to be compressible in-



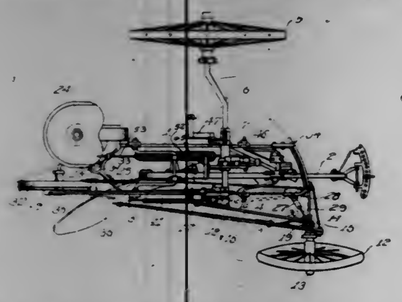
wardly but adapted to spread outwardly against the circumferential wall of the container when the rack is disposed therein.

1,452,300. ELEVATING TRUCK. ARTHUR D. LIGHTNER and EDWARD HOLMES, Toledo, Ohio, assignors to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 18, 1919. Serial No. 271,834. 16 Claims. (Cl. 254—2.)



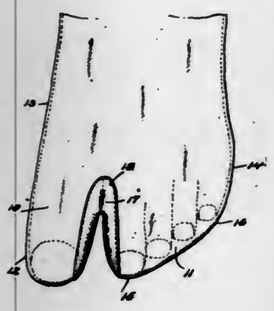
1. In an elevating truck, in combination, a main frame portion, a movable frame portion, means for transmitting movement to the movable frame portion, and means pivoted upon the main frame for equalizing the movement of the movable frame and having portions extending in opposite directions from the points of pivotal connection with the main frame.

1,452,301. SULKY PLOW. ALEXUS C. LINDGREN, Evanston, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed May 14, 1920. Serial No. 381,439. 5 Claims. (Cl. 97—81.)



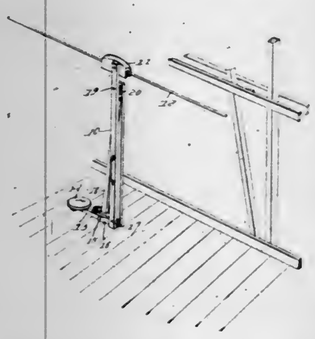
1. A tillage implement comprising a main frame having at one end a pair of horizontally spaced bearing members, a furrow wheel, a support for the furrow wheel pivoted to the main frame for horizontal motion and having a laterally extending curved portion slidingly supported by said bearings.

1,452,302. STOCKING. CARL LOVEN, Portland, Oreg. Filed Feb. 16, 1922. Serial No. 537,044. 5 Claims. (Cl. 2—23.)



1. A stocking having its toe portion formed of two separated, closed pockets only, one to receive the big toe and the other to receive the four lesser toes.

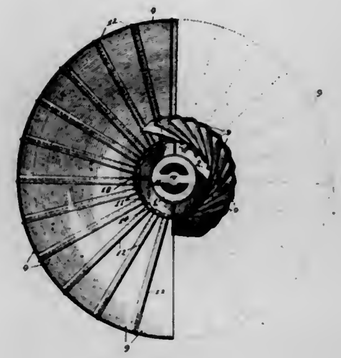
1,452,303. MILKING STOOL. HENRY E. LUEBKER, Plum City, Wis. Filed July 14, 1922. Serial No. 575,092. 3 Claims. (Cl. 31—13.)



1. A milking stool for use in connection with a plurality of stalls having a hanger bar provided with a traveler for traversing an overhead track, and a seat carrying arm foldably mounted on the hanger bar, the hanger bar being provided with a spring actuated tongue operatively connected with the seat carrying arm for yieldingly holding the latter in folded relation with said bar.

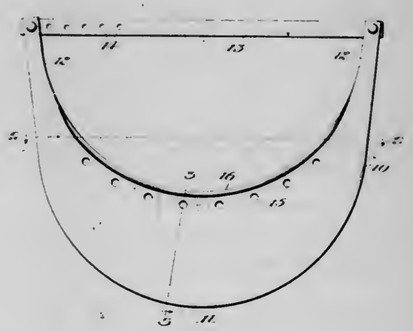
3. A milking stool for use in connection with a plurality of stalls having a hanger bar provided with a traveler for traversing an overhead track, and a seat carrying arm foldably mounted on the hanger bar, said hanger bar consisting of parallel spaced elements provided at their lower extremities with forwardly directed cars between which the seat carrying arm is pivotally mounted, and the said tongue being mounted between said elements and terminally connected with the seat carrying arm.

1,452,304. COLLAPSIBLE ELECTRIC HEATER. EDWARD J. MCCORMACK, San Francisco, Calif. Filed July 13, 1921. Serial No. 484,391. 16 Claims. (Cl. 219—34.)



1. A folding electrical heater comprising a heating element; a collapsible reflector connected to said element; and means for normally retaining said reflector in an extended or folded position.

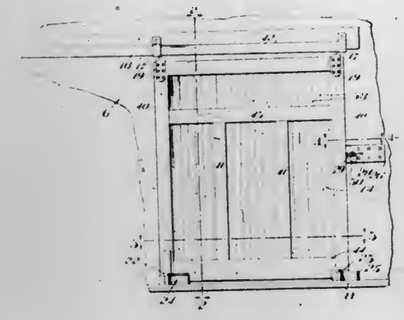
1,452,305. EYE SHADE. WILLIAM F. MAHONY, Washington, D. C. Filed Jan. 18, 1921. Serial No. 438,152. 1 Claim. (Cl. 2—149.)



An eye shade of substantially crescent shape comprising flat projecting horns, and having an inwardly bent integral hollow bearing-bead formed on its contact edge adapted to present a smooth contact surface, said bearing-bead tapering outwardly towards said flat horns so as to cause a buckling of the parts and to provide a ventilating opening substantially adjacent the temples of the wearer.

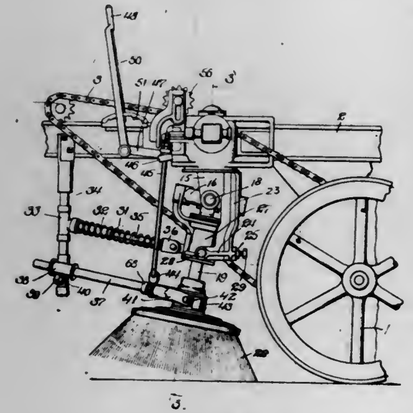
1,452,306. STORAGE BUILDING. PAUL MANDEVILLE, Chicago, Ill. Filed Mar. 13, 1919. Serial No. 282,437. 13 Claims. (Cl. 20—19.)

1. The combination with a building having a doorway, of a sliding door adapted to close said doorway, said door being pivotally suspended to swing outwardly about a horizontal axis, and means operating on the lower marginal portion of the door by edgewise movement



thereof into operative position to move the door laterally so that its side and top margins are brought into close contact with the frame of the doorway.

1,452,307. GUTTER-BROOM ARRANGEMENT FOR STREET SWEEPERS. ELMER R. MARTIN, Elgin, Ill., assignor to Elgin Street Sweeper Co., Elgin, Ill., a Copartnership consisting of Charles A. Whiting, James Todd, and Daniel M. Todd. Filed Mar. 28, 1922. Serial No. 547,361. 16 Claims. (Cl. 15—87.)

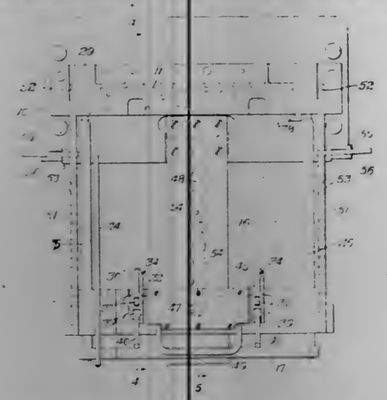


1. In a street sweeping machine, an articulated shaft depending at one side of the machine, a brush mounted thereon, means yieldingly resisting a swinging of the brush-carrying shaft portion rearwardly of the machine, and means limiting the swinging of the said shaft portion forwardly of the machine.

1,452,308. MATERIAL-BLANKING OPERATION. EWELL BALFOUR MILLER, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 15, 1921. Serial No. 445,251. 9 Claims. (Cl. 164—48.)

1. In a mechanism for punching strips with oppositely extending projections from sheet material, blanking tools, two carriages, one of said carriages having means for supporting the sheet material, said carriages movable independently and also as a unit to feed the sheet ma-

terial toward said blanking tools with a combined forward and sideway movement whereby the projections on



the strips will be cut from the material between the projections of adjacent strips.

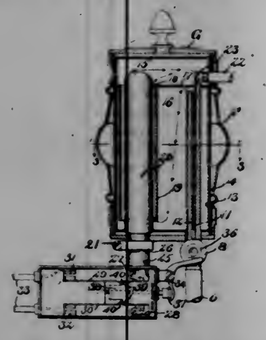
1,452,309. ASPHALT STRUCTURE AND COMPOSITION. GUSTAV MONRATH, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Feb. 1, 1918. Serial No. 214,903. 5 Claims. (Cl. 116—31.)

1. Asphalt mastic structures made in part of an asphalt composition comprising the following ingredients in substantially the following proportions: petrolene about 20 to 30%; asphaltene about 50 to 70%; carbenes about 10 to 20%.

1,452,310. ASPHALT COMPOSITION. GUSTAV MONRATH, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Feb. 1, 1918. Serial No. 214,904. 5 Claims. (Cl. 106—31.)

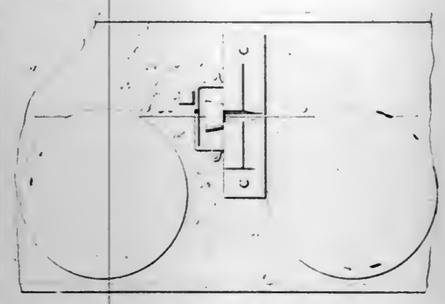
1. An asphalt composition comprising the following ingredients in substantially the following proportions: petrolene about 20 to 30%; asphaltene about 50 to 70%; carbenes about 10 to 20%.

1,452,311. HEATING DEVICE FOR LIQUIDS. CHARLES E. PARKHURST, Somerville, Mass. Filed Mar. 11, 1922. Serial No. 542,989. 13 Claims. (Cl. 219—39.)



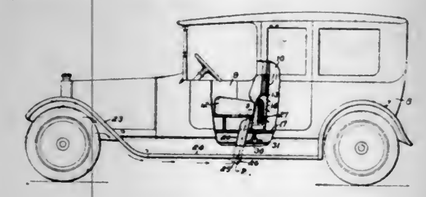
1. A heating device comprising liquid control means including a valve having a plurality of operative positions in which liquid flows, and means operative in a part only of said positions for heating the flowing liquid.

1,452,312. DIE HOLDER. WILLIAM D. PIERSON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 21, 1921. Serial No. 463,168. 16 Claims. (Cl. 205—25.)



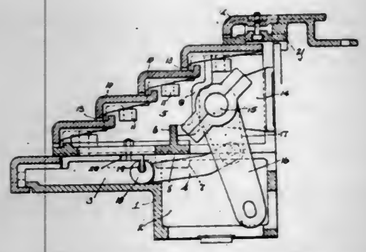
1. A device for the purpose described, comprising a box or container separate and independent from the die, and in which the die is held, with means for movably mounting the same upon a wire drawing machine adjacent to the die head.

1,452,313. VENTILATING SYSTEM. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Nov. 30, 1918. Serial No. 264,807. 11 Claims. (Cl. 98—22.)



1. In a ventilating system for vehicles, the combination of a deflecting means provided with a downwardly and rearwardly inclined deflecting surface and a horizontal deflecting surface extending rearwardly therefrom, an air duct having a forwardly directed inlet adjacent the underside of said horizontal deflecting surface, said duct leading in an upward direction from said inlet, and a chamber into which said duct discharges.

1,452,314. EXTENSION GRATE APPARATUS. GILBERT WAYNE RUGGLES, Youngstown, Ohio. Filed Nov. 26, 1920. Serial No. 426,342. 6 Claims. (Cl. 110—33.)



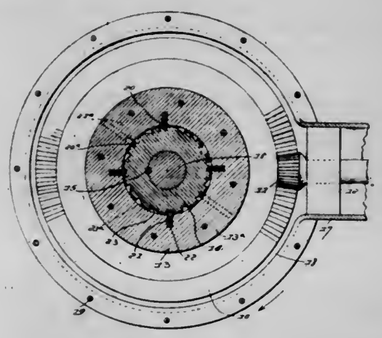
1. In a mechanical stoker, the combination of an extension grate, a member adapted to slidably support same,

a reciprocable link, said grate being tiltable relatively to said member, and operating connections between said grate and link adapted to be disengaged upon such tilting of the grate.

1,452,315. PROCESS FOR BLEACHING BARYTES. JOSEPH B. SCHEUER, Lanett, Ala. Filed Oct. 5, 1922. Serial No. 592,607. 6 Claims. (Cl. 252.)

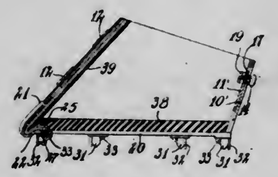
1. In the process of purifying barytes, the steps which comprise reducing the ore to a fine powder, heating the powder in the presence of an oxidizing agent to oxidize some of the impurities therein, and removing the oxidized impurities.

1,452,316. DIFFERENTIAL GEAR. WILLIAM M. SHIRLEY, Alicevile, Ala. Filed Mar. 11, 1922. Serial No. 542,921. 3 Claims. (Cl. 74—7.)



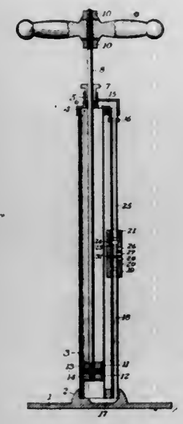
1. A differential for drive wheel shaft members having a main gear actuable by the motor drive shaft, an operating clutch member carried by the main gear, operated clutch members fixed respectively to the drive wheel shaft members for receiving motion from the operating clutch member, and driving and reverse pawls carried by the operating clutch member for engagement with the complemental rachet faces on the operated clutch members, the driving pawls being yieldingly engaged with the operated clutch members and the reverse pawls being automatically maintained out of engagement with said members when the driving pawls are operative.

1,452,317. HOOF-PROTECTING HORSESHOE. DEZSÖ SIMON and ABRAHAM GOTTLIEB, New York, N. Y. Filed Dec. 14, 1921. Serial No. 522,260. 6 Claims. (Cl. 168—18.)



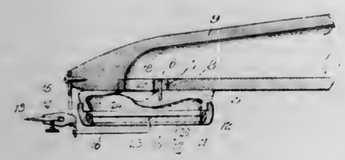
3. A horseshoe comprising a collar adapted to fit around the hook of the horse and being split at the front into two sections hinged to one another, a sole member fixed to said collar, and means for securing the free ends of the collar to one another in different adjusted positions, said means comprising a key having an enlarged neck, adapted to fit in different serrations in registering slots in the said free ends.

1,452,318. PUMP. THOMAS A. SPIKER, Pittsburgh, and JOHN E. AYRES, McDonald, Pa. Filed Oct. 20, 1921. Serial No. 509,124. 2 Claims. (Cl. 103—227.)



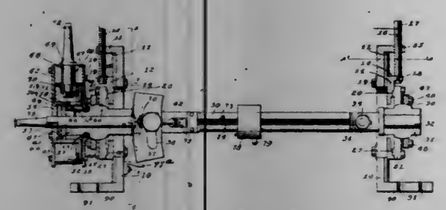
1. A double acting fluid pump comprising a cylinder, a piston therein, and a valve outside of the cylinder and connected thereto by cylinder connections at each end thereof and by conduits from the cylinder connections; the valve comprising a body connected to one of said conduits and having a chamber therein, a slide valve in the chamber adapted to be moved by the fluid, means for preventing rotation of the slide valve with respect to the body, said valve having openings adapted to provide fluid passages, said body having openings adapted to register with the openings in the slide valve according to the motion of the piston, and a cap for the body adapted to hold the slide valve therein and also limit its movement, said cap supporting the other conduit at one end, the second conduit having its other end adapted to slidingly fit into a cylinder connection whereby the cap may be attached to the body, substantially as described.

1,452,319. SOUND BOX. CHARLES S. SPITZER and JOHN GLOUB, Chicago, Ill. Filed May 2, 1921. Serial No. 466,084. 1 Claim. (Cl. 274—25.)



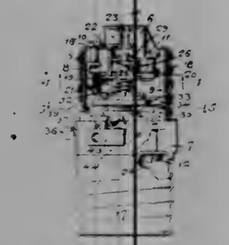
In a sound-box, the combination of a case, a diaphragm at one side of and forming a chamber in the case, and a tone arm at its other side, the case being formed with a helicoidal sound-conduit therein between said chamber and said connection, said sound-conduit on the diaphragm side being substantially coextensive in area with said diaphragm and being progressively constricted toward said tone arm.

1,452,320. PORTABLE BORING MACHINE. JOSEPH STAEMPFLI, New Orleans, La. Filed July 16, 1920, Serial No. 396,636. Renewed Mar. 3, 1923. 15 Claims. (Cl. 77—2.)



1. In a portable boring machine, a boring bar provided with a shaft portion at each end, independently adjustable supports for each end of the bar, and a ball and socket joint connection between each shaft portion and its support.

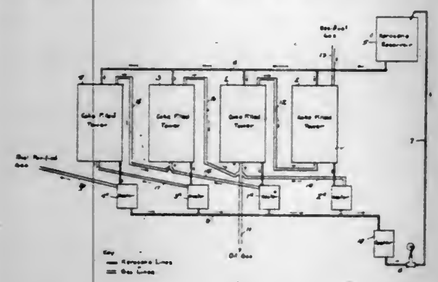
1,452,321. ADAPTER. LUDWIG STENDAHL, Fairfield, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 31, 1922. Serial No. 548,366. 3 Claims. (Cl. 173—344.)



1. In an adapter, a pair of insulating buttons, standards spacing the same apart to afford a switch chamber, a screw shell surrounding said chamber, a switch mechanism arranged therein, a center contact associated with said shell to form therewith the plug contacts of the fitting, a second pair of screw shell and center contacts forming the receptacle contacts of the fitting, means for connecting one of the plug contacts and one of the receptacle contacts to one of the standards to establish constant electrical connection therebetween, a switch terminal associated with the other of the plug contacts, a cooperating switch terminal associated with the other spacing standard, and a switch member for making and breaking the circuit between said switch terminals.

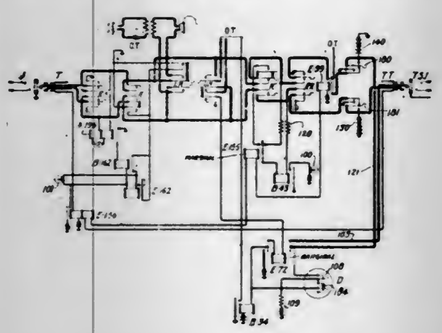
1,452,322. METHOD OF SEGREGATING OLEFINES. LEROY C. STEWART, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 12, 1920. Serial No. 350,999. 11 Claims. (Cl. 260—170.)

1. In a method of segregating olefines from a gaseous intermixture of the same, the step which consists in bringing such intermixture into contact with a cold petroleum oil capable of absorbing propylene and the



higher members of the series in preference to ethylene, whereby such propylene and higher members are separated from such ethylene, substantially as described.

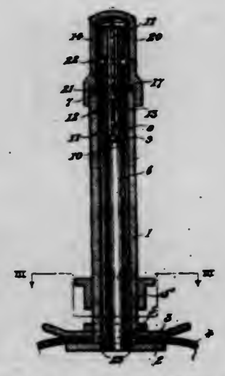
1,452,323. TOLL TRUNKING CIRCUITS FOR MACHINE-SWITCHING TELEPHONE SYSTEMS. RAY L. STOKELY, Floral Park, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1921. Serial No. 448,890. 6 Claims. (Cl. 179—6.3.)



1. In a machine switching system wherein the toll operator sets automatic switches at a distant automatic office over a two-wire interoffice toll trunk and trunks local to the automatic office, and the completed connection includes a repeating coil at the automatic office, the combination with coin boxes at the substations of the lines having coin disposal magnets therein, sources of collect and refund current at the automatic office, electromagnetic means at said automatic office to apply current from one or the other of said sources to selectively operate said magnet to collect or refund coins, and means under the control of the toll operator to control said electromagnetic means over said interoffice trunk and local trunks.

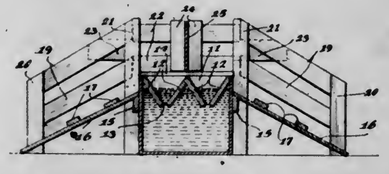
1,452,324. TIRE VALVE. LOUIS P. STRUTZ, Corning, N. Y. Filed Jan. 6, 1922. Serial No. 527,315. 2 Claims. (Cl. 152—11.5.)

2. A tire valve comprising a casing, a tubular member secured in the casing providing an annular air chamber with the outer ends of the casing and tubular member lying in the same plane, a valve mechanism including a pipe section threaded into the tubular member, an air valve carried by the pipe section, a tensioned and regulable exhaust valve positioned exteriorly of the pipe section and casing and adapted to close the outer end of the air chamber between the casing and tubular member, said exhaust valve being of ring formation and embodying a depending valve body, an upstanding collar and an inwardly directed flange for engagement with a



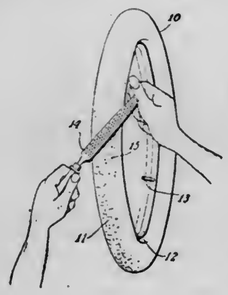
spring, an outwardly directed flange carried by the exhaust valve, and a shouldered cap threaded on the casing with the shoulder thereof engaging the outer flange of the valve to lock the valve on its seat.

1,452,325. STOCK WATERER. HENRY TERNES, Albion, Nebr. Filed Oct. 13, 1922. Serial No. 594,228. 4 Claims. (Cl. 119—74.)



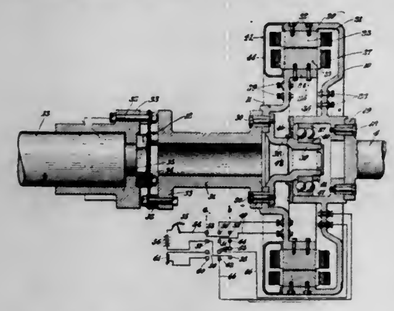
1. In an animal watering device, a tank adapted to contain a body of water, a tray fitting in the top of the tank and having a trough at each side thereof, and approaches arranged at opposite sides of the tank one for each trough.

1,452,326. METHOD OF PROLONGING THE LIFE OF EXPANSIBLE VULCANIZING CORES. JAMES D. TEW, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 1, 1922. Serial No. 572,255. 8 Claims. (Cl. 18—53.)



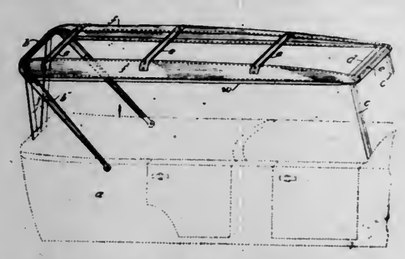
1. In the art of vulcanizing pneumatic tire casings on fluid-expansible, rubber cores, the method which comprises using the core in repeated vulcanizations until a hardened crusts has formed on its outer surface, removing said crust, substituting a fresh rubber coating, and using the core in further vulcanizations.

1,452,327. POWER-TRANSMISSION ARRANGEMENT. MILTON E. THOMPSON, Ridgway, Pa. Filed Dec. 20, 1919. Serial No. 346,292. 14 Claims. (Cl. 172—239.)



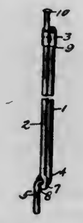
1. A magnetic coupler comprising magnetic members whose power transmitting faces are separated by an air gap, and a spherical journal supporting one of said members upon the other.

1,452,328. VEHICLE TOP. ARTHUR ALDERTON TOWERS, Cleveland, Ohio. Filed Feb. 10, 1921. Serial No. 443,860. 8 Claims. (Cl. 296—102.)



1. In a frame for vehicle tops, the combination with two laterally curved sheet metal members forming continuous side pieces of said frame, of transverse struts secured at intervals for rigidly uniting the same, and means adjacent to the ends of said side pieces for supporting the frame from the vehicle body, substantially as set forth.

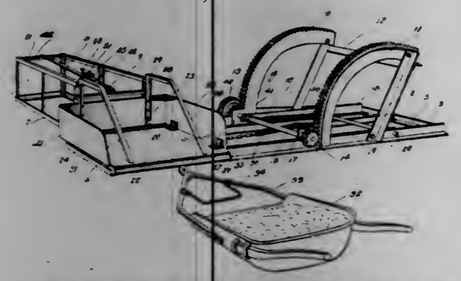
1,452,329. PROP OR BRACE. PHIL UTTER and PAUL W. SCHENCK, Los Angeles, Calif. Filed July 25, 1921. Serial No. 487,427. 5 Claims. (Cl. 287—99.)



1. A prop or brace adapted to be collapsed or extended into position of service, said prop or brace including a plurality of independent arm members loosely joined together,

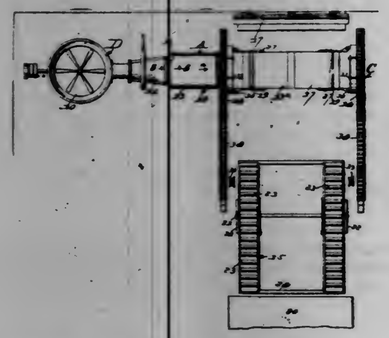
there being means carried by certain of the arm members for engaging the next adjacent arm member to maintain said arm members in locked alignment; said means including a sleeve member adapted to frictionally engage said arm members, and one of said arms being formed with means to prevent withdrawal of said friction element from one of said arms.

1,452,330. EARTH LOADER. EDWARD B. WINTERS, Coffeyville, Kans. Filed May 15, 1922. Serial No. 560,929. 10 Claims. (Cl. 214—92.)



1. An earth dumping mechanism comprising a base, arms pivoted to the base, a hopper pivoted to the arms, a shaft rotatably mounted on the arms, pinions carried by the shaft, arcuate rack bars over which the pinions travel to raise the arms when they rotate in one direction and to lower them when rotating in an opposite direction, a winding drum on the pinion shaft, a cable wound on the drum, and means for unwinding the cable on the drum to rotate the pinion shaft to cause the pinions to pass over the arcuate racks to move the arms in hopper-raising position.

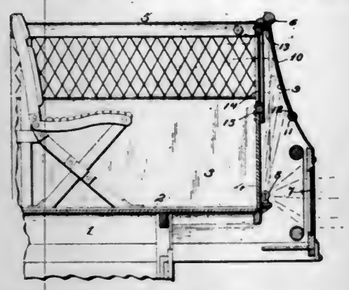
1,452,331. BLANK-TRANSFER MECHANISM FOR SAGGER-MAKING MACHINES. FRANKLYN J. WOLFF, Trenton, N. J. Filed May 7, 1920. Serial No. 379,549. 31 Claims. (Cl. 25—2.)



1. A blank transferring and inverting apparatus for sagger forming mechanisms having spaced receiving and delivery stations and a flat blank carrying table automatically reversible and movable between said stations for successively conveying the blanks from the former to the latter during the inversion thereof.

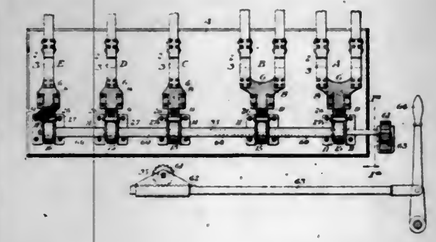
1,452,332. DISPLAY SIGN FOR PASSENGER VEHICLES. EDWARD WOTTON, Edgewater, N. J. Filed Dec. 10, 1921. Serial No. 521,282. 4 Claims. (Cl. 40—129.)

1. In a combination with a bus body having an upper passenger deck, a destination sign pervious to light supported at the front of the body adjacent the level of the deck, a lamp in rear of said sign to illuminate it so that it can be read from in front of the bus, and an advertising



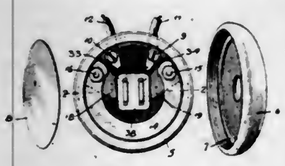
sign supported above and in front of the deck and facing to the rear to be read from the deck, said advertising sign being exposed to the direct rays of said lamp so as to be illuminated thereby.

1,452,333. ELECTRIC SWITCH. CHARLES N. ALTER, Alliance, Ohio. Filed June 21, 1919. Serial No. 305,837. 13 Claims. (Cl. 200—18.)



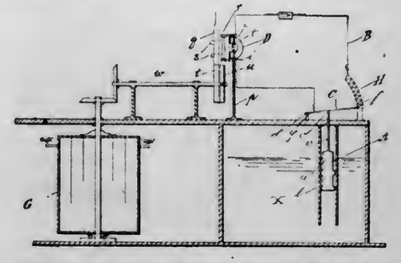
1. In an electrical switching device, the combination of a contact, a pivoted contact member, a reciprocable yoke, yieldable means operatively connecting said yoke and said contact member, and eccentric means operating said yoke to impart a snap action to said contact member through said yieldable means, substantially as described.

1,452,334. TELEPHONE RECEIVER. CHARLES TOWNSEND BAISLEY, North Edgecomb, Me., assignor to Manhattan Electrical Supply Co. Inc., New York, N. Y., a Corporation of Massachusetts. Filed May 11, 1922. Serial No. 560,061. 4 Claims. (Cl. 179—119.)



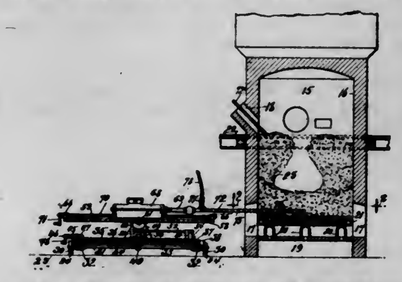
1. A telephone receiver of the watch-case type, having pole plates with integral base straps offset therefrom, magnet coils mounted on said pole plates, and insulating spacing washers common to said pole plates and engaged thereon above and below the coils to locate the poles in accurate parallelism, the upper washer being forced upon the pole pieces to frictionally grip the same and thus to secure said parts together as an assembly unit, substantially as described.

1,452,335. STARTING DEVICE FOR TREATING LIQUIDS. JOHN P. BALL, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 539,577. 5 Claims. (Cl. 210—8.)



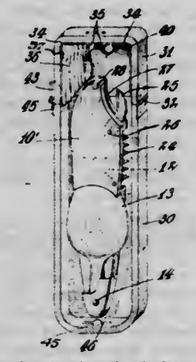
1. The herein described method which consists in subjecting sewage sludge to an intermittent action of centrifugal force and acceleration given to the speed, depending on the density of the sludge contained.

1,452,336. POWER DECLINKERING APPARATUS. GEORGE R. BRADLEY, Brooklyn, N. Y. Filed Oct. 18, 1920. Serial No. 417,817. 3 Claims. (Cl. 214—23.)



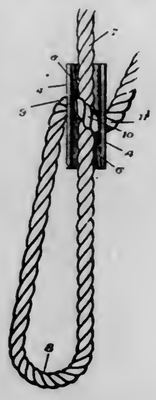
1. In a declinkering apparatus the combination of a movable truck, a turntable for the truck, a bed plate trunnioned over the turntable, a drill cylinder slidably supported on the bed plate, a declinkering bar actuated by the drill cylinder, means to locate the drill cylinder with its bar in different angular positions and means to feed the bar into the material operated upon and to withdraw it therefrom.

1,452,337. CAMPER'S COMBINATION UTENSIL. EDWARD BRECEL, Brooklyn, N. Y., assignor of one-fourth to Peter Dzmitrowicz, Brooklyn, N. Y. Filed Nov. 16, 1921. Serial No. 515,525. 5 Claims. (Cl. 206—16.)



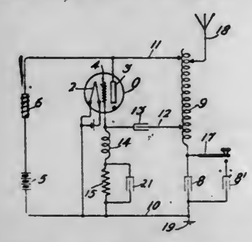
1. A holder for a utensil of the type described, comprising a casing consisting of a main body and a cap element hinged together, a series of strips of fibrous material carried in the said cap element, and doors forming the side walls of the said cap element.

1,452,338. ROPE AND CABLE TIE. WILLIAM JAMES FLOWERS, Complete, Miss. Filed Mar. 27, 1922. Serial No. 547,096. 12 Claims. (Cl. 24—130.)



1. A device of the character described comprising a portion along which a portion of a rope can lay, and having slots opening in different directions for receiving the terminal portion of the rope to extend across the aforesaid portion of the rope and the slots being so arranged that a pull on said terminal portion of the rope will clamp the first named portion of the rope between said terminal portion and said portion of the device.

1,452,339. ELECTRICAL DISCHARGE DEVICE. RAYMOND A. HEISING, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 28, 1918. Serial No. 237,110. 20 Claims. (Cl. 250—36.)

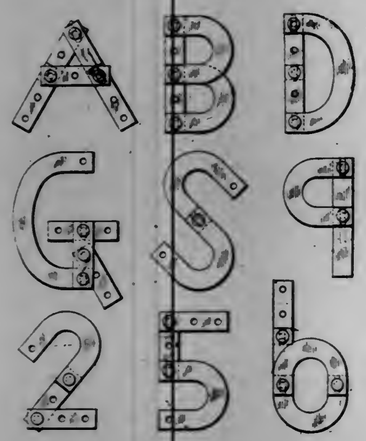


1. In combination, an electron discharge device having a cathode and an impedance varying element, means for impressing an alternating voltage thereacross, and a leak path between said cathode and said element, said leak path having a highly inductive reactance to alternating current of the frequency produced by said voltage.

1,452,340. EDUCATIONAL TOY. GWENDOLEN BEATRICE NORA EGERTON HUBBARD, Hollywood, Calif. Filed Sept. 2, 1920. Serial No. 407,679. 2 Claims. (Cl. 35—1.)

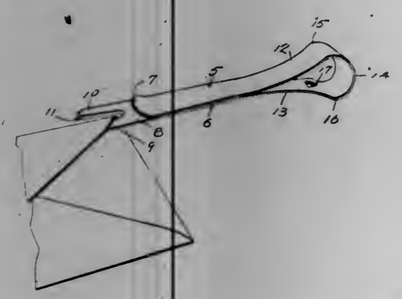
2. A toy of the character described, consisting of multiples of only three types of elements, whereof one is oblong, a second is U-shaped, and a third is C-shaped, and the oblong elements are all of the length required

for half the length of a straight portion of a letter B of the size to be made with the toy, and the U-shaped and C-shaped elements are dimensioned and proportioned, the former all so that each will constitute one arch of the said letter B and the latter all so that each will constitute the arch of a letter D of a size corresponding



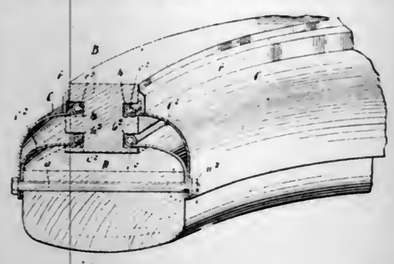
to the said letter B, each element being of uniform width throughout its length and the same width as each of the other elements, the terminal portions of all of said elements being provided with perforations whereby the elements in the built up letters may be secured together in overlapping relation, substantially as described.

1,452,341. COMBINED PAPER CLIP AND ENVELOPE OPENER. VICTOR JACQUEMIN, St. Louis, Mo. Filed Apr. 17, 1922. Serial No. 553,829. 1 Claim. (Cl. 24—259.)



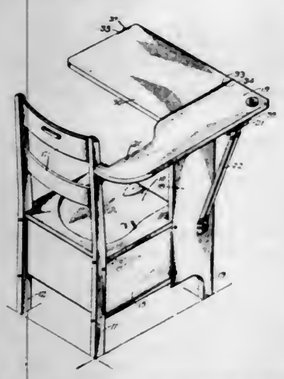
A combined paper clip and letter opener comprising a single strip of spring material of uniform width, a substantially semi-circular bend formed in said material at a point other than its center so as to form a long and a short arm, said arms being tensioned toward each other so as to contact for a portion of their length only, and provided with gradually curved diverging portions extending from the contacting portions to the semi-circular portions whereby the arms lie snugly when in use, and a short upturned portion formed on the free end of the shorter end whereby the clip may be applied without first spreading the arms apart.

1,452,342. RESILIENT-TIRED WHEEL. JAMES THOMAS JONES, Maidenhead, England. Filed Nov. 15, 1921. Serial No. 515,253. 3 Claims. (Cl. 152—8.)



2. A vehicle wheel having a rim, a tread radially spaced therefrom and of materially less transverse extent, in combination with cushioning supports for the tread, said cushioning supports comprising a plurality of resilient members extending from each of the opposite sides of the rim toward the tread and engaging the opposite sides of the latter at radially spaced points, to afford a plural spring arch-like support for the tread, the spring line of the plural arch coinciding substantially with the wheel rim and the tread forming a key member common to said plural arch-like supports.

1,452,343. CHAIR DESK. WILLIS O. JONES, Louisville, Ky. Filed Feb. 13, 1922. Serial No. 536,033. 4 Claims. (Cl. 155—128.)

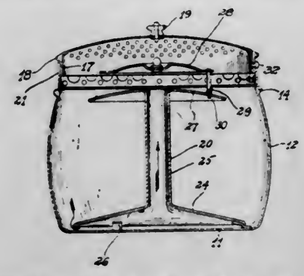


1. In a chair desk, the combination with a chair proper having a vertically-extending support rising above one side of the seat and in advance thereof, of a transverse member rigidly supported thereby extending horizontally across the front of the seat, and a desk top pivoted at the upper outer edge of the transverse member so that when turned down horizontally it will rest on the top of and cover said transverse member and so that when it is turned back it will expose the top thereof and will be held by gravity against the outer side thereof.

1,452,344. MILK BOILER. MICHAEL KANIUK, Boyertown, Pa. Filed May 1, 1922. Serial No. 557,797. 1 Claim. (Cl. 53—1.)

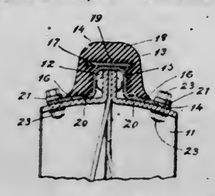
The combination with a kettle having a bottom and side wall extending upward therefrom and a removable cover, of an insert comprising a concavo-convex base supported in spaced relation above said bottom, a tubular stem extending upwardly from the raised center of said base, an outturned star-shaped flange on the upper end of said stem, said flange being substantially parallel

with said base and integrally connected with it by said stem, a deflector removably supported in spaced relation over said flange and upper end of said stem, a perforated



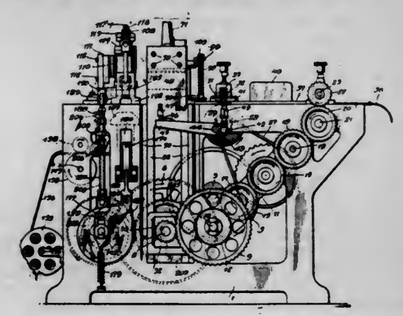
ring adapted to be interposed between the upper edge of the kettle and the cover thereof, means on said ring to resiliently engage the upper edge of said kettle, and means for locking the cover to said ring.

1,452,345. TIRE STRUCTURE FOR TRACTORS. IRWIN F. KEPLER and ARTHUR A. ROBB, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1921. Serial No. 500,866. 6 Claims. (Cl. 301—39.)



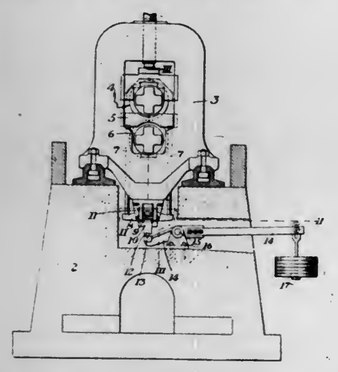
5. A tire for the steering wheels of tractors, said tire being made in segments each comprising a metal base having an arched middle portion, side attaching flanges, and a pair of longitudinal tie-plates each having one end secured to its segment and the other end overlapping the base of the adjoining segment and formed with a longitudinal slot, and bolts adapted to pass through said slot and through holes in the segment bases and wheel rim for securing said segments together upon the wheel.

1,452,346. TRAY-MAKING MACHINE. FREDERICK E. KUSTER, Evansville, Ind.; Charles E. Kuster administrator of said Frederick E. Kuster, deceased. Original application filed May 4, 1920, Serial No. 378,793. Divided and this application filed Nov. 26, 1921. Serial No. 517,891. 9 Claims. (Cl. 93—41.)



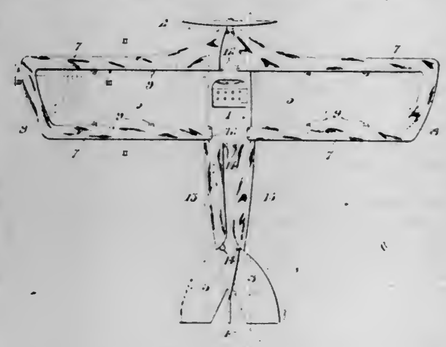
1. In a tray-forming machine, cooperating organized means for scoring a blank, shaping the tray, and applying a reinforce over the edges of the sides of the tray, the same embodying a plunger and inclined reciprocatory members cooperating with said plunger to strike against the reinforcing elements to press the same against said sides.

1,452,347. ROLL-BALANCING MECHANISM. LEIF LEE, Youngstown, Ohio. Filed Jan. 3, 1921. Serial No. 434,620. 4 Claims. (Cl. 80—56.)



2. Roll balancing mechanism consisting in the combination with a vertically movable roll bearing, supporting struts therefor, and an equalizing lever upon which the supports are mounted, of a crosshead to which the equalizing lever is pivoted, and a balancing device having a contact engagement with said crosshead, substantially as described.

1,452,348. AEROPLANE SAFETY APPLIANCE. FRANK J. MATOUSHEK, Prairie du Sac, Wis. Filed Nov. 7, 1921. Serial No. 513,461. 4 Claims. (Cl. 244—5.)

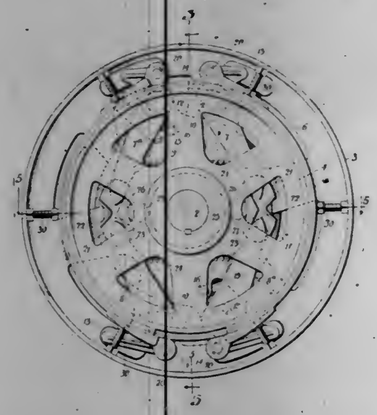


1. In an aeroplane having horizontally extending planes, inflatable gas bags surrounding said planes, a filling valve carried by each bag, and spacing cords provided in said bags for limiting the expansion of the same.

1,452,349. FRICTION CLUTCH. CHARLES G. OBERLEY and ROBERT GRIGNON, Munising, Mich. Filed Apr. 20, 1920. Serial No. 375,321. 5 Claims. (Cl. 192—80.)

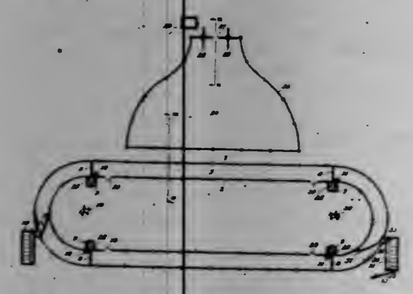
1. In a friction clutch, a pair of drum-like members, a clutch band for engagement with one of said members, a pair of levers pivotally supported on the other member,

each connected at its outer end to one end of said clutch band, the pivotal support of one lever being fixed and



that of the other being adjustable, radially movable operating heads embracing the inner ends of said levers for tightening the band.

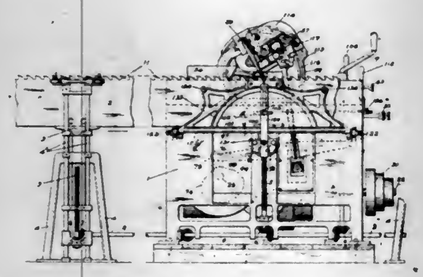
1,452,350. OUTDOOR GAMING APPARATUS. FRANK T. WAKEFIELD, Pittsburgh, Pa. Filed Oct. 15, 1921. Serial No. 507,893. 2 Claims. (Cl. 46—73.)



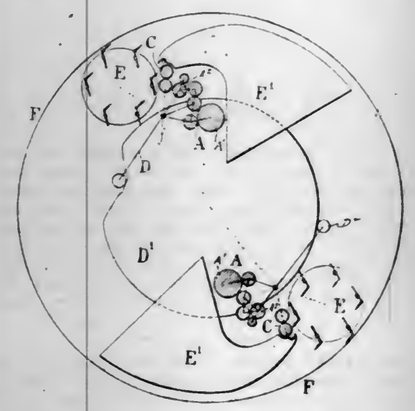
1. In an outdoor gaming apparatus, a pair of spaced parallel endless fence constructions forming a track or chase course therebetween, said fences being of foraminous construction to permit viewing of a chase therethrough, a plurality of gates arranged at intervals along the course and each being independently operable, a barrier associated with the outer fence adjacent one of said gates and adapted to be swung across the track when opened defining a confined area on the track for animals prior to a chase, and an animal housing structure positioned outwardly of the outer fence in communication with a passageway to the track afforded by the opening of the barrier, said gates being horizontally hinged at their lower ends whereby the lowering opening movement thereof gives an equal start to the animals in the chase.

1,452,351. AUTOMATIC SAW-SHARPENING MACHINE. EDWARD P. ARMSTRONG and HENRY W. ARMSTRONG, Portland, Oreg. Filed Jan. 8, 1919. Serial No. 270,209. 52 Claims. (Cl. 76—40.)

16. In a saw-sharpening machine, a horizontally reciprocable carriage, an arm pivoted on said carriage, a saw-engaging finger carried by said arm, a driven shaft, a rocker-arm engaging with said cam element, a connection between the rocker arm and the carriage, means for holding the rocker-arm constantly but yieldingly on the cam element, said motion-transmitting means being adapted to cause a constant thrust on the articulations of said motion transmitting connections, and said motion-transmitting means being further adapted to exert a force couple on the carriage thereby causing it to have a constant bearing against the same faces of its guiding elements.



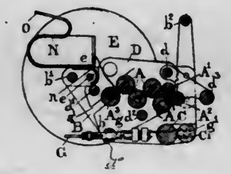
1,452,352. APPARATUS FOR GRADING OR SEPARATING FIBERS ACCORDING TO THEIR LENGTH. WILLIAM LAWRENCE BALLS, Manchester, England. Filed Sept. 27, 1918. Serial No. 255,957. 10 Claims. (Cl. 19—65.)



1. Apparatus for sorting and grading fibers according to length, comprising members for firmly gripping therebetween fibers and separating them from a tuft of fibers, means movable relative to said members for loosely engaging the fibers as they are delivered and a collector for receiving said fibers from said means.

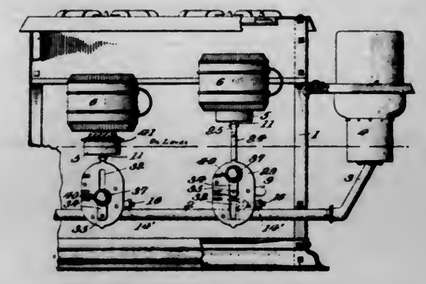
1,452,353. APPARATUS FOR GRADING OR SEPARATING FIBERS ACCORDING TO THEIR LENGTH. WILLIAM LAWRENCE BALLS and FREDERICK HUTCHINS, Manchester, England. Filed Sept. 1, 1920. Serial No. 407,447. 4 Claims. (Cl. 19—65.)

1. An apparatus for sorting or grading cotton or other fibers according to their length, comprising a frame, a set of delivery rollers journaled in said frame, wheels supporting said frame and adapted to traverse a stationary surface, means for transmitting motion from said wheels to said rollers, a second frame mounted for rocking movement toward and away from said first-named frame, a set of feed rollers journaled in said second frame and adapted to cooperate with said delivery rollers, means for retaining said last-named frame apart from said first-named frame during the movement of the apparatus over said surface and permitting said last-named frame to move



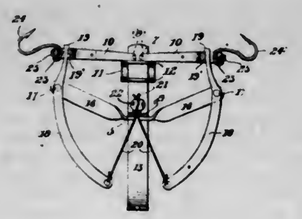
toward said first-named frame at the end of said movement and means for moving said last-named frame away from said first-named frame, and means for imparting movement to the feed rollers.

1,452,354. WICKLESS OIL BURNER. ATWELL J. BLACKFORD, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Sept. 19, 1921. Serial No. 501,709. 19 Claims. (Cl. 158—42.)



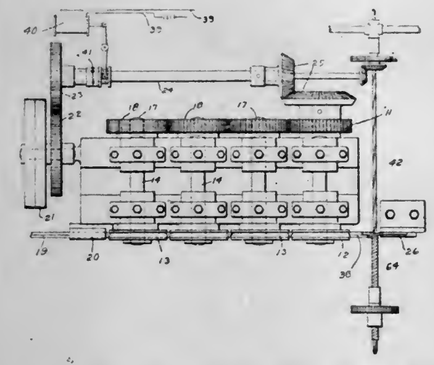
1. A wickless oil burner, comprising an oil containing member or trough, means for maintaining a body of oil in said trough, a lighting member wholly within the trough, one of said members movable vertically in respect to the other during operation for controlling the flame.

1,452,355. ANIMAL TRAP. JOHN BOLF, Miles, Tex. Filed Mar. 4, 1922. Serial No. 540,978. 4 Claims. (Cl. 43—92.)



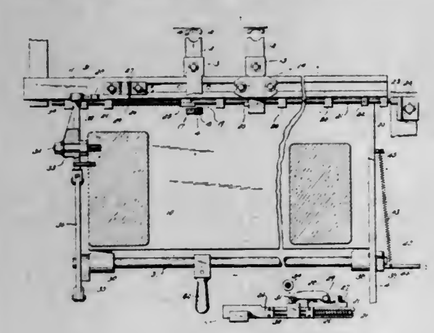
1. In a jaw trap of the class described, a stirrup having outturned leg portions and upturned ends, a pair of swinging jaws pivoted at their ends to said upturned ends of the stirrup, springs means for normally urging the jaws upwardly toward each other, the central portion of the stirrup being adapted to have a bait disposed thereon, means for holding the jaws in separated position and means including flexible members extending upwardly through the base of the stirrup and attached to the bait and to the jaw holding means.

1,452,356. MACHINE FOR MAKING FLEXIBLE TUBULAR ARMOR. STEPHEN W. BOURN, Providence, R. I. Filed July 28, 1921. Serial No. 488,256. 6 Claims. (Cl. 113—35.)



1. In a machine for making tubular armor, a fixed strip coiling guide plate, means for grooving a strip of material and feeding it to said guide, the guiding portion of said plate being of a width less than that of the strip to be coiled and having an opening into which the strip is fed endways, the inner edge of said opening being shaped to coil the strip into helical form with its edges interlocking, and means for simultaneously rotating the tube as formed.

1,452,357. STOP MECHANISM. JESSE B. BURTON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 20, 1920. Serial No. 382,876. 21 Claims. (Cl. 192—143.)

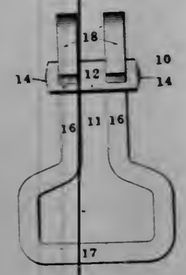


1. In a carrier mechanism for transferring articles from one station to another; a reciprocating member; a second member connected therewith and having movement relative thereto; and positively actuated mechanism for stopping the movement of the first member, the action of said mechanism being initiated by the second member and transmitted through a part connected with said reciprocating member.

1,452,358. COUPLING-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed May 27, 1921, Serial No. 473,142. Renewed Mar. 5, 1923. 6 Claims. (Cl. 213—190.)

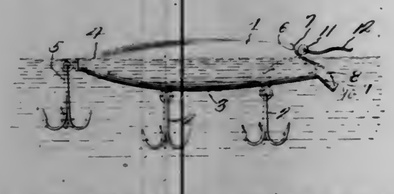
1. In a device of the class described, the combination with a coupler locking pin, of an operating lever therefor having a laterally extending integral portion, and a stirrup

passing through the eye of the locking pin and provided with a pair of arms having their ends bent in a plane



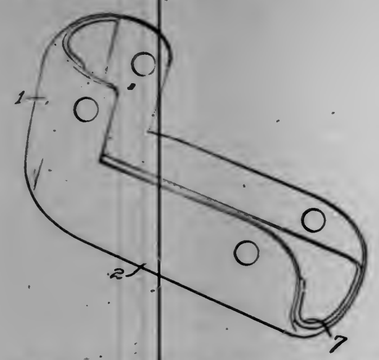
substantially at right angles to the plane of the stirrup and engaging with the laterally extending integral portion of the operating arm to lift the locking pin.

1,452,359. FISHING LURE. FRANK AUSTIN CASS, South Bend, Ind., assignor to South Bend Bait Co., South Bend, Ind., a Corporation of Indiana. Filed Aug. 24, 1921. Serial No. 495,127. 5 Claims. (Cl. 43—46.)



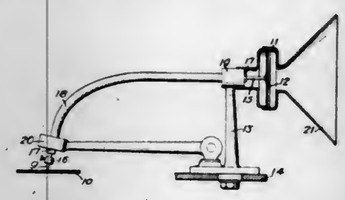
1. A diving fishing lure comprising a body having a downwardly and forwardly inclined recess in its forward end, a diving plate disposed in said recess and longitudinally dished, the lower end of said diving plate terminating in a slightly upwardly arched portion, and upwardly extending and outwardly diverging diving wings having substantially plane water resisting surfaces carried by said diving plate and forming means whereby the lure will continue to dive as it rolls from side to side.

1,452,360. KNEE PAD. CHARLES L. CLARKE, Fort Worth, Tex. Filed Sept. 27, 1920. Serial No. 412,948. 3 Claims. (Cl. 2—110.)



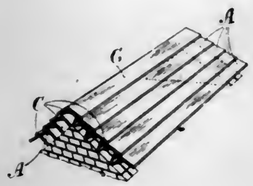
1. A knee pad comprising a fabric constituting the body of the pad, a felt lining therefor, and a rubber cover for said fabric, said fabric and felt rubber cover being curved to conform to the contour of the knee and all vulcanized together.

1,452,361. PHONOGRAPHIC APPARATUS. HENRY P. CLAUSEN, Mamaroneck, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1920. Serial No. 356,052. 7 Claims. (Cl. 274—26.)



1. A phonographic device comprising a phonographic record, a stylus to engage therewith, a movable member spaced from the stylus, a longitudinally curved element relatively inflexible longitudinally but relatively flexible transversely extending longitudinaly between and mechanically associated with the stylus and the movable member to translate movement therebetween, and a member of energy-absorbing material engaging the side of the element to resist transverse vibrations of the element.

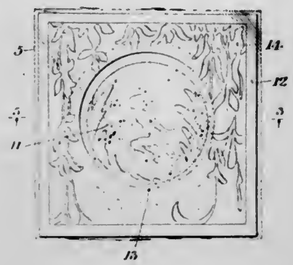
1,452,362. CONSTRUCTION OF CONCRETE ROOFS. WILLIAM ERNEST CLIFTON and JOHN STURTON EWART, Nottingham, England, assignors to The Clifton-Ewart Construction Company Limited, Nottingham, England. Filed June 27, 1921. Serial No. 480,844. 2 Claims. (Cl. 108—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



1. In a roof, the combination of two principals spaced apart, and a plurality of longitudinal reinforced concrete members all of the same L-section arranged in a row each parallel to the roof ridge with their angles uppermost, each member having one limb which is spaced away from the corresponding limb of the adjacent members and is supported by its free edge at its two ends only on said principals, and each member except an end one in the row having its other limb overlapping the angle of the member below it, and the length of each member measured in the direction in which it extends between the principals being great in relation to its measurement at right angles thereto.

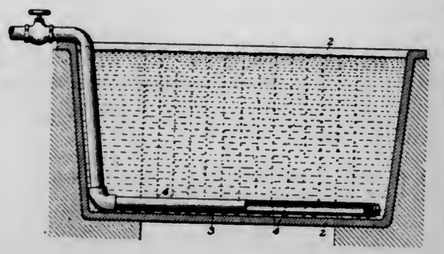
1,452,363. TOILET-ARTICLE PACKAGE. MORRIS CRUPAIN, Newark, N. J. Filed Nov. 13, 1922. Serial No. 600,769. 1 Claim. (Cl. 206—46.)

A toilet article package comprising in combination a powder puff having an ornamental face, a transparent envelope encasing said puff and through one wall of which one side of said puff may be inspected, and a printed or pictorial ornamental relatively stiff sheet insertible within the envelope to maintain the envelope in substantially extended form, said sheet being provided



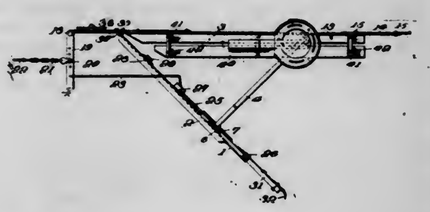
with an opening through which the ornamental side of the powder puff is observable through the opposite side of the envelope.

1,452,364. METHOD OF PURIFYING MOLTEN METAL. WALTER T. DAVIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed May 20, 1921. Serial No. 471,104. 2 Claims. (Cl. 266—35.)



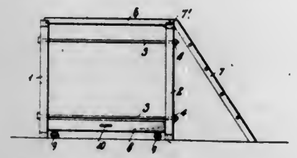
1. The herein described method of purifying molten tin or/and lead metal, which consists in liberating air at the lower portion of the mass of metal to be purified, and causing said air to pass upwardly through the body of metal, substantially as described.

1,452,365. ROAD GRADER AND DITCHER. HENRY L. DEVER, Owensboro, Ky., assignor to Owensboro Ditcher & Grader Company, Owensboro, Ky., a Corporation of Kentucky. Filed Sept. 21, 1916. Serial No. 121,460. 12 Claims. (Cl. 37—173.)



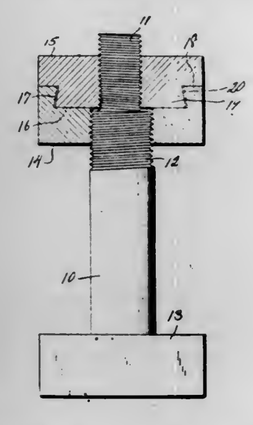
1. The combination of a running-beam, cutting-blade, pulling-beam, and a hand-rail removably connected with the cutting-blade, and affording a means of detachably securing the pulling-beam to the cutting-blade.

1,452,366. COLLAPSIBLE ROOST. NAOMI EGAN, Redding, Calif. Filed Jan. 25, 1922. Serial No. 531,550. 1 Claim. (Cl. 119—22.)



A knock-down roost, comprising frame members of substantially rectangular formation, having open interiors, tie rods for uniting a pair of said frame members and for holding the same against separation, the upper portions of said frame members being formed with a plurality of spaced notches extending partially therethrough from the inner sides of said frame members, said notches in said frame members being in axial alignment, removable roost rods supported by said frame members and entering the notches therein, said roost rods serving to space the frame members apart at their upper ends, a removable element leading from a supporting surface to one of said roost rods and a removable tray positioned between said frame members and slidably engaging the same, said tray when in a normal position serving to separate the side members at their lower ends.

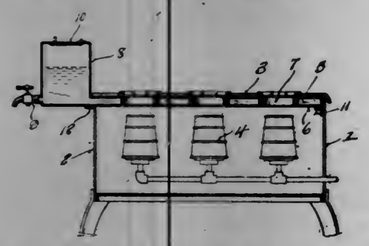
1,452,367. LOCK NUT. HANS ELLINGSON, Hamilton, Ohio. Filed Aug. 10, 1921. Serial No. 491,183. 1 Claim. (Cl. 151—16.)



The combination with a bolt having a reduced threaded portion and a threaded portion adjacent the reduced threaded portion but having its threads reversed, of a nut formed in two sections, one of said sections having a threaded aperture adapted to engage with the last named threads, the outer section having a threaded aperture adapted to engage with the threads on the reduced portion, the first named nut section being formed with a recess in its outer face concentric to the central aperture and defined by a peripheral wall, the inner face of which overhangs, the second named section having a central boss smaller in diameter than the body of the section, the outer edge face of said boss extending outward at an inclination to the axis of the nut section, said central boss being disposed within the recess of the first named nut section whereby said nut sections have swiveled engagement with each other, the internal diameter

of the peripheral wall of the first named section being larger than the exterior diameter of the central boss of the second named section whereby to permit the two sections of the nut to be intermittently turned to unscrew the nut as a whole from the bolt.

1,452,368. HOT-WATER ATTACHMENT FOR STOVES. OSCAR EVENSON, Rio, Wis. Filed Aug. 7, 1922. Serial No. 580,371. 2 Claims. (Cl. 126—53.)



1. In combination, a stove having a box-like casing, a row of burners therein, a top plate, and an interior flange at one end of said casing spaced below its top edge, said casing having a recessed portion at its other end; and a hot water attachment comprising an elongated rectangular, thin, heating chamber removably supported at one end upon said flange, extending lengthwise over said burners, and projecting at its other end thru said recessed portion, said chamber having a plurality of walled openings aligning with said burners, and a storage reservoir forming an extension of, and in communication with, said projecting portion and overbalanced by said elongated heating chamber.

1,452,369. AUTOMOBILE BODY. FRANK R. FAGEOL, Oakland, Calif. Filed Feb. 16, 1922. Serial No. 536,867. 6 Claims. (Cl. 296—28.)



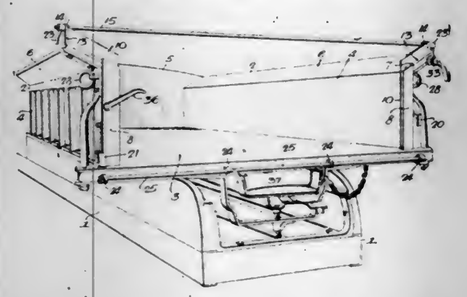
1. In combination with an automobile chassis having a body thereon, of a running board secured to said body and chassis beneath the plane of the body floor and extending substantially the full length of said body and doors on said body opening out from said running board.

1,452,370. TOY RAILWAY. ALAN R. FERGUSSON, Buffalo, N. Y. Filed Sept. 27, 1922. Serial No. 590,781. 43 Claims. (Cl. 238—10.)



2. In a toy railway, the combination of wire formed ties and a plurality of rails carried thereby and including a power rail.

1,452,371. TRUCK OR WAGON BODY. ANTHONY E. GINTHER, Philadelphia, Pa. Filed Mar. 29, 1920. Serial No. 369,628. 4 Claims. (Cl. 296—51.)



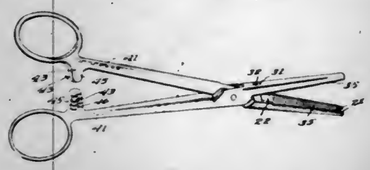
1. The combination of a wagon body open at its rear; a groove at each side of the body near the rear thereof; a longitudinal cross bar extending from one side to the other at the upper end of the rear of the body; and a second longitudinal cross bar secured to the body at the rear of the floor, said grooves and upper and lower rods permitting the selective attachment of vertically sliding upwardly swinging or downwardly swinging tail boards respectively, so that different type of said boards may be used with the one type of wagon body.

1,452,372. SURGICAL SUTURING DEVICE. JOAQUIN SÁNCHEZ GÓMEZ, Washington, D. C. Filed Oct. 15, 1921. Serial No. 507,886. 19 Claims. (Cl. 128—338.)



1. A suturing device comprising opposed interlocking elements, a needle like suture fixed to one of said elements, and means for supporting the elements on opposite sides of a wound.

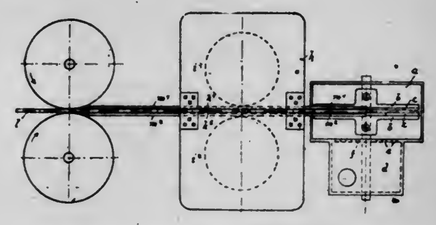
1,452,373. SURGICAL LIGATURE AND MEANS FOR APPLYING THE SAME. JOAQUIN SÁNCHEZ GÓMEZ, Washington, D. C. Filed Oct. 15, 1921. Serial No. 507,887. 13 Claims. (Cl. 128—338.)



1. A surgical ligature consisting of a pair of clips each separate from the other and each having a back portion

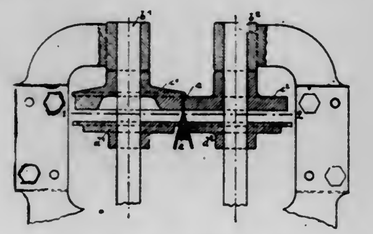
and legs extending therefrom in parallel relation, the legs of each clip being provided with locking means cooperating with the legs of the other clip.

1,452,374. APPARATUS FOR IMPREGNATING MATCHES OF WOOD, PASTEBOARD, PAPER, OR THE LIKE WITH PARAFFIN. KARL PAUL GOTTSCHALK, Dresden, Germany, assignor to Henry Staier, Grunau, near Rosswein, Saxony, Germany. Filed Mar. 25, 1922. Serial No. 546,944. 5 Claims. (Cl. 144—60.)



1. In an apparatus for impregnating matches of wood, pasteboard, paper or the like with paraffin, in combination with a receptacle filled with paraffin, of discs rotating within said receptacle, arranged in a defined distance from each other and adjustable one toward another and layers of absorbing material coating the inner facing surfaces of said discs and transmitting the paraffin to the match-band passed between the upper parts of the discs mentioned.

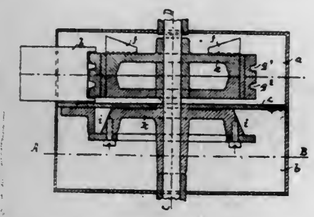
1,452,375. APPARATUS FOR ADJUSTING AND FIXING THE SETTING OR STRADDLING OF PARTLY-CUT MATCHES OF PAPER, PASTEBOARD, OR THE LIKE AND STILL CONNECTED IN THE SHAPE OF A CONTINUOUS STRIP OR BAND. KARL PAUL GOTTSCHALK, Dresden, Germany, assignor to Henry Staier, Grunau, near Rosswein, Saxony, Germany. Filed Mar. 25, 1922. Serial No. 546,945. 2 Claims. (Cl. 144—51.)



1. In an apparatus for adjusting and fixing the setting or straddling of partly cut matches of paper, paste board or the like and still connected together in the shape of an endless strip or band in combination with delivery rollers for moving or supplying the endless band mentioned, of wheels gearing together for passing the band to be set or straddled between their teeth and for alternately bending the partly cut matches to both sides of the band and means for varying and adjusting the setting or straddling.

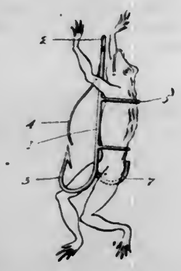
1,452,376. FILLING APPARATUS FOR MATCH-DIPPING MACHINES. KARL PAUL GOTTSCHALK, Dresden, Germany, assignor to Henry Staier, Grunau, near Rosswein, Saxony, Germany. Filed Mar. 25, 1922. Serial No. 546,946. 1 Claim. (Cl. 144—60.)

In a filling apparatus for match dipping machines, in combination with a receptacle and a container arranged in front of said receptacle, a filling disc rotating within said container, grooves provided on the periphery of the disc mentioned and slanting towards the receptacle, a partition interposed between the container and the



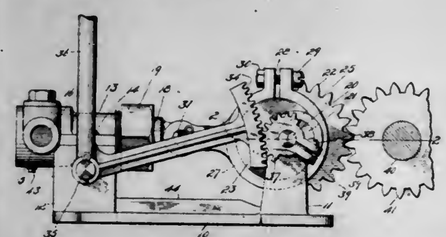
receptacle and an opening or recess provided in said partition for allowing the surplus of the igniting material supplied within the slanting grooves of the filling disc to run back into the container.

1,452,377. FISHHOOK. ARTHUR H. HANSELMAN, St. Paul, Minn. Filed Feb. 24, 1922. Serial No. 538,894. 8 Claims. (Cl. 43—40.



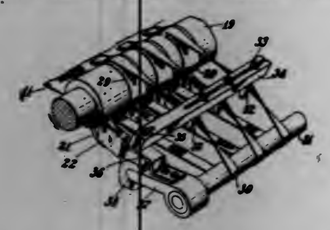
1. A fish hook, comprising a shank and supported hook, spaced rings carried by the shank and projecting therefrom oppositely to the hook, and an outwardly extending arm carried by the shank upon the ring side thereof.

1,452,378. BILGE PUMP. HENRY HANSON, Middletown, Conn., assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn., a Corporation of Connecticut. Filed Oct. 1, 1921. Serial No. 504,585. 5 Claims. (Cl. 74—14.)



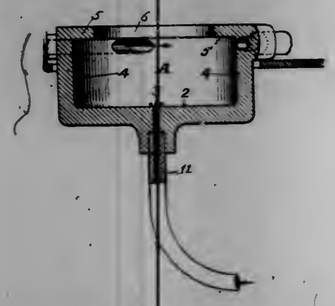
1. In a device of the character described, a base member; a shaft mounted therein and having an eccentric thereon; a sector secured thereto; a second sector pivotally mounted upon a fixed part, the teeth of which mesh into those of the first sector; a pinion loosely mounted upon said eccentric portion and an eccentric collar also mounted thereon and having a positive connection with said pinion; and a power transmitting member connected with said eccentric collar.

1,452,379. METHOD AND APPARATUS FOR BUILDING LAMINATED STRIPS. URBAN HAREN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1919. Serial No. 335,772. 18 Claims. (Cl. 154—35.)



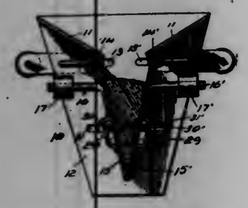
8. In a strip cutting and laminating machine, the combination of means for progressively feeding flexible sheet material and slitting it into strips, means for turning back adjoining strips in relatively short and long loops, means for deflecting the strip of the short loop to register it with the other, and means for superimposing it thereon.

1,452,380. LIQUID-FUEL FURNACE. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Jan. 21, 1920. Serial No. 353,045. Renewed Sept. 25, 1922. Serial No. 590,536. 4 Claims. (Cl. 158—4.)



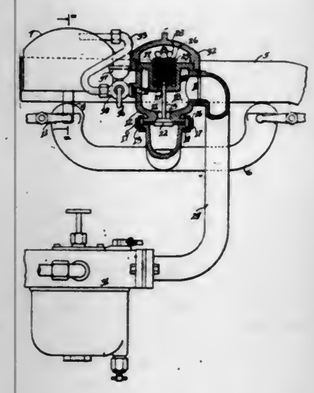
1. The herein described improvement in the art of gasifying and using liquid fuel that consists in generating a whirling hollow column of a supporter of combustion, such as air, and causing the same to move downwardly and at a fixed point of progress to move inwardly toward the axis of the column and thence upwardly; and, simultaneously feeding liquid fuel in to the bottom of said column and maintaining the mixture in a flaming condition which vaporizes the fuel as rapidly as it enters said column.

1,452,381. MEANS FOR FILLING MOLDS. WALTER S. HILDEBRAND, Mount Union, Pa. Filed Feb. 16, 1921. Serial No. 445,423. 5 Claims. (Cl. 25—103.)



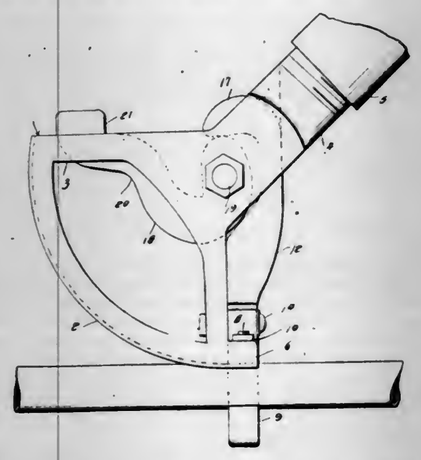
1. A mold filling mechanism comprising a material feed hopper, means depending from said feed hopper for forming a predetermined amount of the material into a substantially wedge-shaped mass, and means for actuating said first mentioned means for the discharge of the material, when formed, by gravity therefrom into a mold positioned beneath the hopper.

1,452,382. SUPERHEATER. WILLIAM F. HILLS, Mountain View, and WILLIAM H. CHARD, Paicines, Calif. Filed Feb. 6, 1922. Serial No. 534,474. 4 Claims. (Cl. 123—122.)



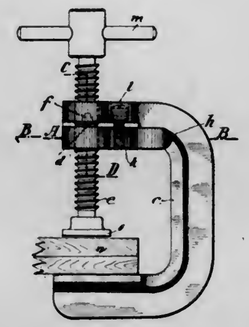
1. In a device of the character described, the combination of a casting adapted to receive carbureted air, means for delivering heated air to said casting and means for discharging said carbureted air and said heated air to an intake manifold of an internal combustion engine, said discharge means being opened by the vacuum in said intake manifold.

1,452,383. PIPE BENDER OR ELBOW FORMER. GRAYSON JONES, Nashville, Tenn. Filed Sept. 8, 1921. Serial No. 499,252. 6 Claims. (Cl. 153—40.)



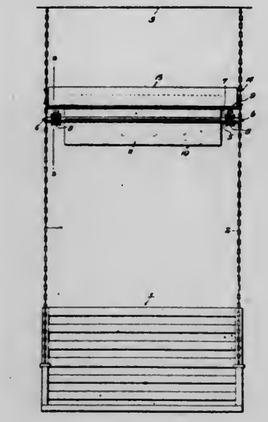
4. A pipe bender comprising a body, a movable jaw carried by said body and slidable thereon, said jaw having a shank provided with a hook, a cam pivoted on said body and engaging with said hook to raise said movable jaw, said cam provided with a shank having a foot rest, and a lever for operating said body.

1,452,384. SCREW CLAMP. KARL KISSENDORFER, Oberndorf-on-the-Neckar, Germany, assignor to Waffenfabrik Mauser, A. G., Oberndorf-on-the-Neckar, Germany. Filed May 8, 1922. Serial No. 559,394. 4 Claims. (Cl. 144—305.)



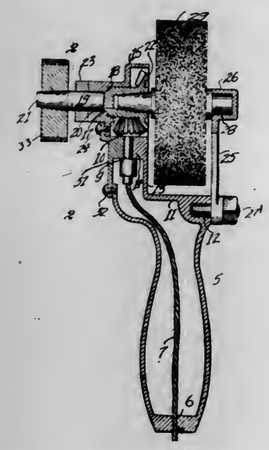
1. An adjustable screw-clamp, comprising a bow having a shank at each end, one of said shanks having an opening therein, and also a recess; a spindle associated with the opening of said shank; a thread member having a bolt for pivotally securing the member to the last-named shank, and provided with screw threads adapted to coact with said spindle; a lug on said member adapted to coact with said recess; and a spring on said bolt for forcing said member against said spindle.

1,452,385. FAN ATTACHMENT FOR SWINGS. HIRAM MCGRATH, McConnelsville, Ohio. Filed Sept. 21, 1921. Serial No. 502,233. 3 Claims. (Cl. 230—7.)



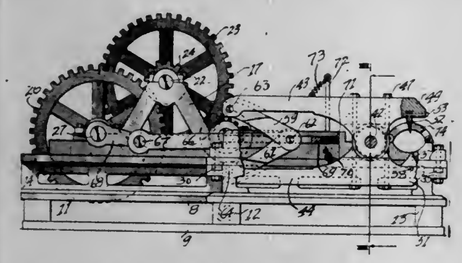
1. The combination with a pair of vertically disposed swing side chains, of a pair of spaced parallel bars having means on their inner ends for loosely connecting them to a support, said bars arranged between and extending at right angles with respect to said chains, a fan shaft arranged below and inwardly with respect to the outer ends of the said bars and provided with journals mounted in opposed links of said chains, radially disposed fan blades secured to said shaft, pulleys attached to said shaft inwardly with respect to the journals thereof and arranged below said bar, a pair of spaced coupling members depending from each bar, and a pair of flexible members each connected at its ends to a pair of coupling members and wound intermediate its ends on a pulley whereby during the shifting of the chains a rotative movement will be imparted to the fan shaft.

1,452,386. SHOE-POLISHING DEVICE. MANUEL J. MORENO, San Francisco, Calif. Filed Jan. 6, 1922. Serial No. 527,357. 2 Claims. (Cl. 15—23.)



1. A device of the character described comprising a tubular handle having an aperture therein, a housing connected to said handle, a main drive shaft disposed in said housing, an auxiliary shaft frictionally engaging said main drive shaft and adapted to be actuated thereby, polishing implements mounted on the respective shafts, mechanism in said handle and housing adapted to actuate said drive shaft for rotating said implements, and means extending into said handle and connected to said mechanism, substantially as and for the purpose described.

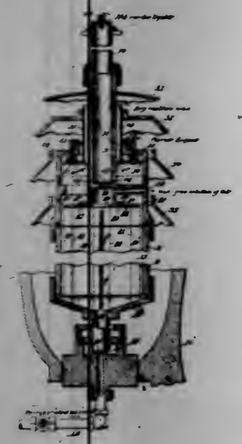
1,452,387. WOOD-SPLITTING MACHINE. KICHIMATSU MUKAI, San Francisco, Calif. Filed Apr. 17, 1922. Serial No. 553,368. 1 Claim. (Cl. 144—193.)



In a device of the character described, the combination with a base, gears mounted on said base, a crank adapted to be rotated by said gears, a pin carried by said crank, a connecting rod extending from said crank and adapted to deliver reciprocating motion, toggle means pivoted to said connecting rod, levers mounted above said base, each of said levers being provided with a jaw portion, a wood splitting element mounted in each of said jaw portions, one of said elements being provided with a bifurcated top and the other of said elements being provided with a single top, said splitting elements being arranged in said jaws at right angles to each other so that the top

of one splitting element will enter the bifurcated portion of the other splitting element, the opposite end of said levers being pivotally connected to the free end of said toggle members, substantially as and for the purpose described.

1,452,388. PROCESS AND APPARATUS FOR CENTRIFUGAL SEPARATION. CLOVIS A. PORTER and OSWALD C. BREWSTER, Casper, Wyo., assignors of one-half to Patrick Sullivan and O. R. Hagens, both of Casper, Wyo. Filed Nov. 19, 1921. Serial No. 516,495. 4 Claims. (Cl. 233.11.)



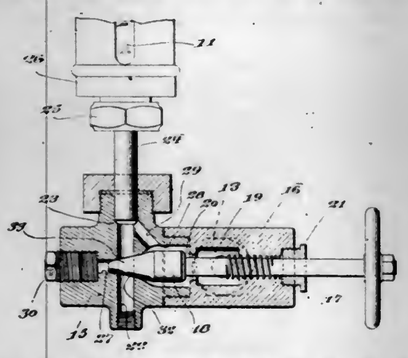
1. A process of separating waxy material from oil, which comprises passing a mixture of such oil with a solvent in such proportions as to produce a liquid of low viscosity, while refrigerated sufficiently to cause solidification of a large part at least, of the waxy material, through a centrifugal separator while causing such mixture to float upon a substantially non-progressing layer of aqueous fluid, withdrawing the solution of clear oil in solvent from the centrifugal, withdrawing the precipitated waxy material to a separate compartment of the centrifugal, then adding to such waxy material, a warm, aqueous liquid in amount sufficient to melt said waxy material, subjecting the mixture of molten waxy material and water to centrifugal force and separately withdrawing the separated wax and aqueous liquid.

1,452,389. PAPER WAXING AND SIZING COMPOSITION. FRANK L. FULLEN, Oldtown, Me. Filed Sept. 21, 1922. Serial No. 589,700. 1 Claim. (Cl. 134—22.)

A liquid sizing for paper consisting of lime water, borax, wax and oil in substantially the proportions specified.

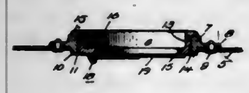
1,452,390. WATER-GAUGE GLASS FOR STEAM BOILERS. BERNARD C. RODENHIZER, Lynchburg, Va. Filed Feb. 19, 1921. Serial No. 446,229. 1 Claim. (Cl. 73—54.)

A valve for steam boiler water gauge glasses comprising a casing having a vertical drain passage therethrough positioned to communicate with the interior of a gauge glass connected with the valve, at the bottom of said glass, and a valve movable into position to close the said passage, said casing having a passage communicating with the first-named passage between the point of closure of the said first-named passage by the valve and the point of communication of the said first-named passage with a gauge glass connected to the casing, said valve



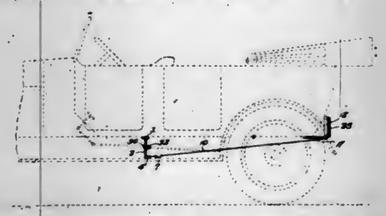
being movable into position to close the second-named passage when it is moved from its first-named closing position.

1,452,391. CLOSURE. LOUIS RUPERT, Decatur, Ill. Filed Mar. 22, 1921. Serial No. 454,348. 1 Claim. (Cl. 220—35.)



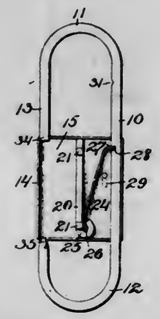
A closure of the class described, comprising an internally screw threaded ring of appreciable thickness and provided on its exterior with an annular ledge for attaching the ring to a container, another relatively thick ring having an external flange at one end defining a lip engaging over the top edge of the first named ring and at the opposite inner edge formed with an internal inwardly directed lip having the receiving and pouring orifice of the container, the two rings having matching screw threads where joining, and a spring impelled cover plate hinged to the seconnd named ring at one side thereof, whereby the plate will yield to opening forces and automatically return to the closed position when open.

1,452,392. AUTO SIGNAL. FREDERICK J. RYAN, Toronto, Ontario, Canada. Filed Mar. 18, 1921. Serial No. 453,241. 2 Claims. (Cl. 116—36.)



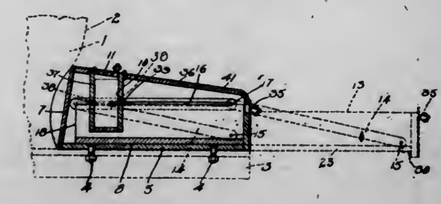
1. An apparatus for the purpose set forth comprising an attaching block adapted to be secured to a vehicle body, an oscillatory bar pivotally connected to one end and depending from said block, a stirrup straddling and pivotally connected to the lower end of the rod, a threaded bolt carried by and projecting from said stirrup and at an angle with respect to said rod, an adjusting member mounted on the bolt, means arranged within said member and adjustably mounted on the threaded portion of the bolt for adjusting said member relatively to the bolt, a movable signal adapted to be supported from the vehicle body, and a flexible element attached to said member and signal for operating the latter when the bar is shifted.

1,452,393. LOCK. FRANK P. SHEK, Brooklyn, N. Y. Filed Mar. 8, 1922. Serial No. 541,920. 3 Claims. (Cl. 70—108.)



3. A lock comprising a shackle formed of parallel strands and having closed ends, one of the strands having an opening therein, a casing formed of plates with recesses therein so that the assembled plates will slide on the strands, a bar having projections thereon, the plates of the casing having openings through which the projections can pass and be headed, a spring secured to the bar with its end bearing on one of the strands and substantially at right angles thereto, said strand having a detent disposed so that when the spring is in it the casing is locked when in position across the opening, said strand having also a slight depression disposed so that when in engagement with the spring it will hold the casing frictionally in non-locking position.

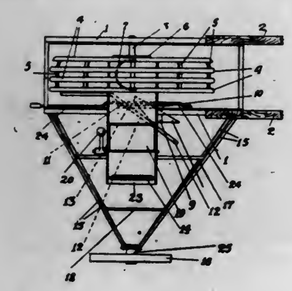
1,452,394. EXTENSION BODY FOR AUTOMOBILES. LEWIS SIMON, Gary, Ind. Filed Apr. 19, 1922. Serial No. 555,612. 4 Claims. (Cl. 296—26.)



1. In a device of the type described, a frame having an angular-shaped recess therein, a pin, a plate hingedly carried by said pin to permit the manual oscillation of said pin, said plate being adapted to be received and locked in said recess in either of two positions, a turn plate carried by said pin, said turn plate having diametrically opposed openings therethrough, and bolts pivotally disposed in said openings.

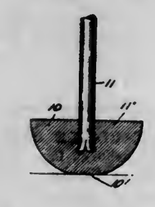
1,452,395. MACHINE FOR RAISING OR DIGGING TURNIPS AND OTHER LIKE ROOTS. ALEXANDER SMITH, Dykehead, and WILLIAM MARTIN WOOD, Montrose, Scotland. Filed Oct. 31, 1919. Serial No. 334,819. 4 Claims. (Cl. 55—50.)

1. In a root raising machine, an elevator wheel comprising the combination of spaced rings forming the rim of the wheel, an outer boss, an inner overhung ring, radial spokes extending from said boss to the overhung



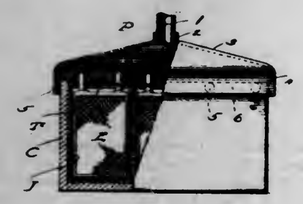
ring and connected to said spaced rings, and curved spaced bars extending inwardly from each of said spokes to form pockets in said wheel.

1,452,396. ADVERTISING DEVICE. LLOYD HENRY STERNER, HENRY M. LANDROTH, and MINNIE ESTELLA STERNER, Fremont, Nebr. Filed Feb. 1, 1921. Serial No. 441,708. 1 Claim. (Cl. 40—145.)



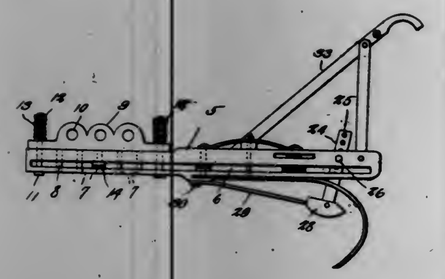
As a new article of manufacture, a combined portable and tiltable sign having inherent means to automatically cause it to assume a vertical position when shifted from perpendicular and when pressure is removed therefrom, and comprising a tubular standard having a relatively short longitudinal split at its inner end disposed with respect to the longitudinal axis thereof and providing a pair of semi-cylindrical short portions, each slightly flared, and a solid metal base of substantially semi-spherical form cast around the lower portion of and depending from the lower terminus of said standard and having its outer periphery uninterrupted throughout.

1,452,397. BATTERY STEAMER. HARRY P. STEVENS, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,517. 9 Claims. (Cl. 263—5.)



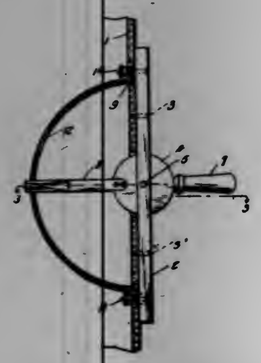
1. The herein described battery steamer comprising a hood having a steam inlet opening, and a mouth adapted to fit around the battery case, the hood having openings for the outlet of water of condensation.

1,452,398. CULTIVATOR. WILLIAM A. STOCKTON, Pleasant Hill, La., assignor of two-thirds to William Dowell, Pleasant Hill, La. Filed May 2, 1922. Serial No. 558,023. 1 Claim. (Cl. 97—175.)



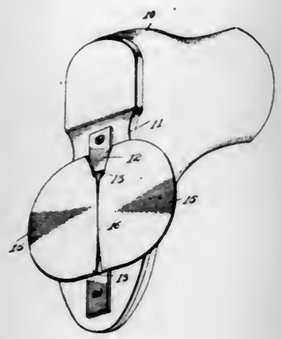
A harrow comprising a body portion, said body portion having a plurality of openings, a securing member on the body portion and having a plurality of pins adapted to move within the openings, resilient means for normally holding the pins in the openings, tooth supporting sections pivotally mounted on the body portion, adjusting rods having connection with the sections and having their forward ends secured to the body portion by engagement with the pins, and curved harrow teeth supported by the sections.

1,452,399. RADIO VARIABLE RHEOSTAT. HERMAN W. TOMPKINS, Greensburg, Pa. Filed Aug. 2, 1922. Serial No. 579,203. 2 Claims. (Cl. 219—48.)



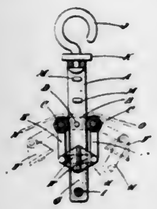
1. A radio variable rheostat comprising a metal base plate, a metal hub pivotally mounted upon the base plate and provided with calibrations, a semicircular resistance secured at opposite ends to the base plate upon opposite sides of the hub and concentric therewith, one end of the resistance having electrical connection with the base plate, and the opposite end being electrically insulated therefrom, and a metal blade carried by the hub and in electric connection with the resistance to bring more or less thereof into circuit.

1,452,400. SWIMMING SHOE. ORIN FRED TORBRON, Ardmore, Okla. Filed Nov. 16, 1922. Serial No. 601,312. 5 Claims. (Cl. 9—21.)



1. The combination with a swimming sandal, of a flexible strip mounted on and extending longitudinally of the sole of the sandal, and foldable propelling wings movably mounted on the flexible strip and arranged to be moved into spread position thereby and into folded position by pressure of water.

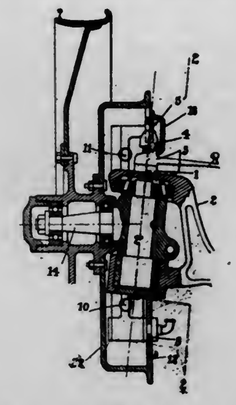
1,452,401. APPARATUS FOR SHARPENING THE BLADES OF SAFETY RAZORS. CYRIL T. WALKER, Secunderabad, Deccan, India. Filed Sept. 16, 1920. Serial No. 410,594. 5 Claims. (Cl. 51—63.)



1. In a razor stropping apparatus, a frame and a flexible strop movable lengthwise in both directions through the frame, said frame having guides to direct the strop in spaced parallel stretches, a blade holder mounted to oscillate between said stretches and adapted to hold a double edged blade and to simultaneously present one side of each edge to said strop, means operated by the strop to oscillate said holder, and cam operated means for adjustably controlling and limiting the oscillatory movements of said blade holder.

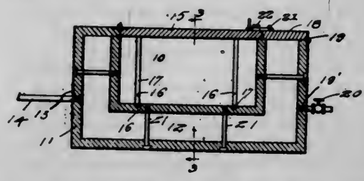
1,452,402. BRAKE MECHANISM FOR AUTOMOBILES. ACHILLE LÉON FRANÇOIS WATTEL, Sevres, France. Filed Aug. 24, 1921. Serial No. 494,879. 4 Claims. (Cl. 188—194.)

3. Braking device for steering wheels of automobiles, comprising in combination pivot pins for said wheels a brake-drum on each of said steering wheels, brake-blocks carried in operative relation to the drum, a shaft fixed to the axle in the prolongation of the pivot pin of each of said wheels, a cone slidably but non-revolubly mounted on said shaft, the surface of said cone being generated according to the nature of the braking action required, a cam-lever mounted on said shaft and engaging said



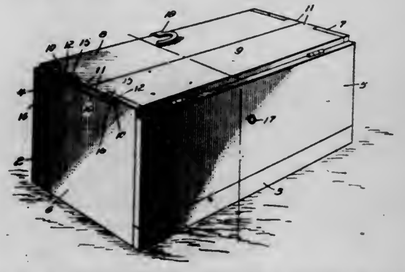
cone, means for rotating said cam lever to raise or lower said cone and means for transmitting motion of said cone to said brake-blocks.

1,452,403. COMPRESSED-AIR ICE MACHINE. VERNEY A. WILSON, Atalla, Ala. Filed Nov. 23, 1920. Serial No. 426,028. 2 Claims. (Cl. 220—9.)



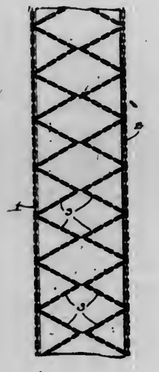
1. A receptacle consisting of a casing, a box therein, a cover for the casing, a movable lid member on said cover for the box, a movable door member to permit access to the space intermediate the casing and the box, fastening means to secure one of said members in closed position, and said members having portions contacting with each other whereby said single fastening means will secure both of said members in closed position.

1,452,404. FOLDING CRATE. BROADUS S. ALLEN, Gaffney, S. C., assignor, by mesne assignments, to May B. Lipscomb. Filed June 24, 1920. Serial No. 391,300. 1 Claim. (Cl. 217—47.)



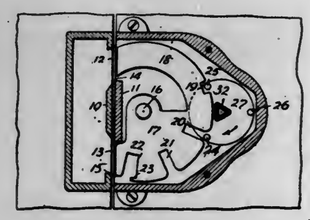
A crate comprising a foldable body having recessed end walls, said recesses opening through the top edges of said walls, a sectional top carried by the body, supporting tongues on the opposite ends of each section of the top and adapted to be seated in said recesses when the top is closed and the body set up, and oppositely disposed manually operable fasteners concealed within each of the end walls and slidable through the side walls of the recesses to engage and lock in the adjacent tongues at one end of the top sections when seated in the recesses, thereby fastening the said sections of the top closed.

1,452,405. TIRE CHAIN. FRANK ANDRASKA, Marshfield, Wis. Filed Mar. 11, 1921. Serial No. 451,558 1 Claim. (Cl. 24—237.)



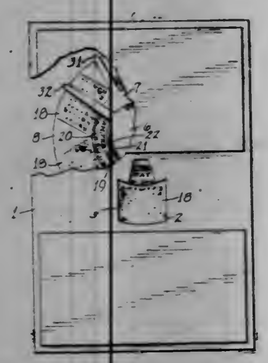
A chain connecting link having a continuous non-yieldable circular eye portion, and side sections extending from the eye portions from diametrical points and at a slight incline to each other, each of said sections having its end portions formed into a hook, and said hooks extending towards each other to be arranged in overlapping relation when the sections are bent towards each other.

1,452,406. LOCK. MAX ARM, New York, N. Y. Filed Jan. 19, 1922. Serial No. 530,395. 2 Claims. (Cl. 70—46.)



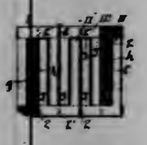
2. A lock mechanism which comprises a rotatable locking plate having a plurality of slots in its periphery, a rotatable actuating plate, pins on the actuating plate to sectionally engage in the solts in the first plate to move said plate, a knob stem engaging the second plate, means permitting said knob to be slid axially with respect to said plate, a key-operated lock, and a projecting stem on the key-operated lock normally engaging with the knob stem but being disengaged therefrom when the knob stem is slid axially as above mentioned, whereby the second mentioned plate can be actuated by the knob alone when desired.

1,452,407. CALENDAR. WILLIAM H. BAKER, Newton, Kans. Filed Mar. 20, 1922. Serial No. 545,219. 2 Claims. (Cl. 40—113.)



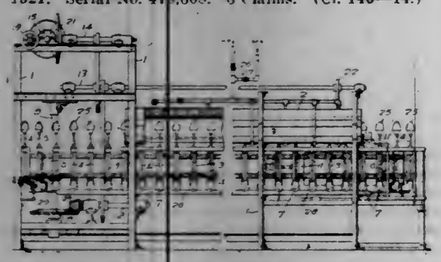
1. A device of the type described comprising a board having an opening therein, three disks of different sizes rotatably and concentrically mounted on said board, the smallest disk being disposed adjacent to the opening and having numbers of years printed thereon, the next largest disk having the names of the months and the number of days in the month imprinted thereon, and the largest disk having seven monthly calendars thereon with thirty-one days in each calendar, each calendar having the first of the month starting on a different day, and a handle operatively connected to each of said disks, whereby said disks can be rotated by said handles to bring any one of said calendars, names of months, and numbers of years into registration with said opening.

1,452,408. CHAIN AND METHOD OF MAKING SAME. SÁNDOR BOLGÁR, Vienna, Austria, assignor to Julius Breyer, Nashville, Tenn. Filed Dec. 23, 1921. Serial No. 524,498. 5 Claims. (Cl. 59—12.)



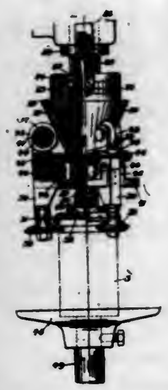
1. An endless weldless chain, substantially as set forth.

1,452,409. ROASTING MACHINE. EARNST A. BOSTROM, Griffin, Ga., assignor to Pomona Products Company, Griffin, Ga., a Corporation of Georgia. Filed June 18, 1921. Serial No. 478,608. 6 Claims. (Cl. 146—14.)



1. A roasting machine having a combination of a gas furnace, a carrier chain for conducting pimentos through the furnace, a rotating brush for removing the pimentos from the carriers, and a regulating device for controlling the speed of said carriers, substantially as set forth.

1,452,410. MACHINE FOR CAPPING BOTTLES OR THE LIKE. PIERRE JOSÉ BOUCHER, Kensington, London, England. Filed May 28, 1921. Serial No. 473,543. 5 Claims. (Cl. 226—87.)



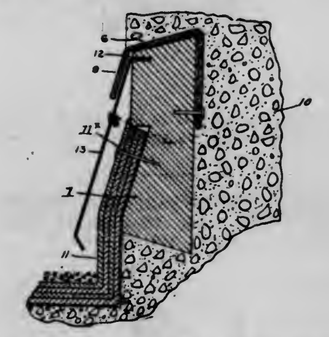
1. In a machine for stoppering, capping, or sealing bottles, means for spinning the closure on to the container, comprising in combination, a work holder, a superimposed plate, coaxial with said work holder, a series of similar levers pivotally mounted on said plate, a spinning wheel mounted on the lower end of each lever, a roller mounted on the top end of each lever, a resilient bearing for each roller, a cone coaxially mounted with said plate for rotation therewith and slidable relatively thereto, resilient means for maintaining said rollers in contact with the surface of said cone, means for rotating said cone and plate, and means for sliding said cone during its rotation, consisting of a loose ring carried on said cone, diametrically opposite projections on said ring, a lever pivoted in a fixed part of the machine, and links connecting said lever to said ring.

1,452,411. LIFE-SAVING GARMENT. ORRICE F. BUNN, Bristol, Tenn. Filed July 7, 1922. Serial No. 573,313. 1 Claim. (Cl. 9—17.)



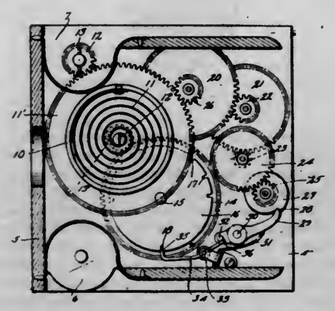
A life saving garment comprising a hollow inflatable belt of considerable width in a vertical direction and adapted to surround the body below the armpits and to be inflated and to hold air under pressure, shoulder straps on the said belt, and flexible straps connected to the belt and of sufficient length to reach below the knees of the wearer and there provided with means for the fastening of said straps about the legs of the wearer; the said downwardly extending straps being elastic so as not to interfere with the movements of the legs of the wearer.

1,452,412. FLASHING FASTENING FOR CONCRETE AND OTHER BUILDINGS. ROBERT P. BURROWS, South Bend, Ind. Filed Apr. 3, 1922. Serial No. 549,036. 3 Claims. (Cl. 108—26.)



1. In a flashing fastening, a wall, a strip secured thereto, a cap on the strip and having a bendable flange overhanging the face of the strip, flashing connected to the strip, and counter flashing carried by the strip and extending downwardly between the same and said flange and arranged in lapped relation to the flashing.

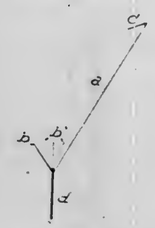
1,452,413. CAMERA. VINCENT CALABRESE, Brooklyn, N. Y. Filed Mar. 9, 1920. Serial No. 364,362. 6 Claims. (Cl. 95—311.)



1. In combination with a camera, its shutter operating mechanism, and film winding mechanism, automatic means for operating the film winding mechanism upon excessive operation of the shutter operating mechanism.

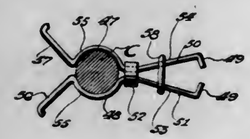
1,452,414. DEVICE FOR THE USE OF CARBON PAPER IN TYPEWRITERS. SALVADOR CARRAU and WARREN RICHARDSON COBEAN, Buenos Aires, Argentina. Filed Mar. 16, 1921. Serial No. 452,864. 3 Claims. (Cl. 282—29.)

1. A device for facilitating the making of carbon copies with a typewriter comprising a backing sheet provided with a folded end portion, a series of superposed tabs, each having one of its ends attached to the end portion of the backing sheet which is opposite to the folded end portion of said backing sheet, an extension projecting from the end of the backing sheet to which the tabs are



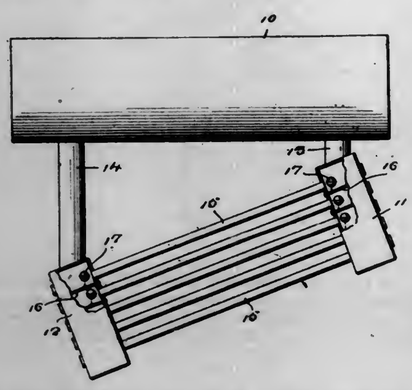
attached, and carbon sheets superposed on said backing sheet, each of said carbon sheets having one of its ends connected to the free end of one of the tabs.

1,452,415. CURTAIN STRETCHER. FERDINAND A. CMEJLA, Milwaukee, Wis. Filed Oct. 9, 1920. Serial No. 415,853. 1 Claim. (Cl. 24—81.)



A curtain stretcher clip comprising two companion wire members bent intermediate their ends to form ring sections and each having one end bent at an angle to form a jaw and the other end bent at an incline, a collar securing the members together and a ring for forcing the jaws together.

1,452,416. VALVE. CHARLES L. CORYELL, Neodesha, Kans. Filed Apr. 26, 1921. Serial No. 464,755. 2 Claims. (Cl. 137—139.)



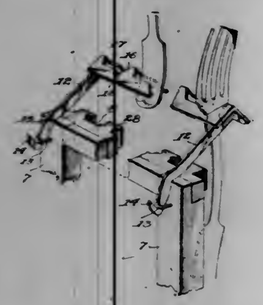
1. The combination with a still of the character described including spaced headers, tubes communicating with said headers, stay bolts connecting said headers and arranged beneath said tubes, of a float valve connected with each stay bolt and normally disposed adjacent one end of the particular tube arranged above the stay bolt, said valve being designed to close said tube, and a narrow flange encircling said valve for the purpose specified.

1,452,417. SEEDER BOOT AND SHOE. MOSES CULBERTSON, Kelfield, Saskatchewan, Canada. Filed July 20, 1920, Serial No. 397,721. Renewed July 13, 1922. Serial No. 574,823. 1 Claim. (Cl. 111—86.)



A device of the class described comprising a tube slit transversely and vertically to provide ears integral with it, said ears being bent to extend at an angle to each other, a shoe having angularly disposed blades, said tube resting on said blades intermediate the ears, said ears engaging the exterior of said blades, and means securing the ears to the blades.

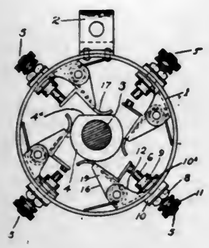
1,452,418. DISH RACK. PETER CUNNEEN, New Rochelle, N. Y. Filed Oct. 14, 1921. Serial No. 507,628. 4 Claims. (Cl. 141—11.)



1. A dish rack, comprising means for supporting dishes in spaced relation, and a rack vertically adjustable thereon into and out of operative position and adapted removably to receive and support therein spoons, forks and the like.

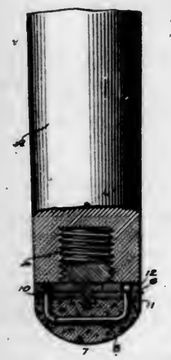
1,452,419. TIMER FOR INTERNAL-COMBUSTION ENGINES. LEO A. ECKERMANN, Detroit, Mich., assignor to Kales Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed July 10, 1920. Serial No. 395,292. 5 Claims. (Cl. 200—27.)

3. In a timer, the combination with the shell thereof, of a contact post mounted upon said shell, a cam member rotatable centrally within the shell, and a unit secured to said shell by said post and comprising a switch member of bell crank form, having a cam engaging arm, and an arm engageable with the contact post, a bracket



providing a pivotal support to said switch member, and a spring urging said switch member to its circuit closing position.

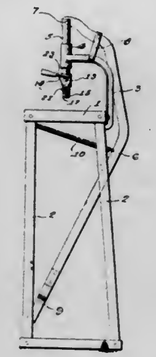
1,452,420. CUE-TIP FASTENER. HENRY JOSEPH GRENIER, Fairfield, Conn. Filed Aug. 30, 1922. Serial No. 585,292. 1 Claim. (Cl. 46—10.)



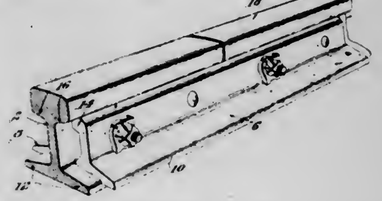
In a cue provided with a plane terminal face in the rear of which is a threaded portion, an attachment for the cue including the combination of a tip carrying element having also a plane terminal face in the rear of which is a threaded portion, the latter to co-act with the threaded portion of the cue to mount the attachment on the cue, a tip to be secured on said element, and means for securing the tip on the element including a plurality of wire lengths anchored in the cue and extending through the element and projecting beyond the latter as bendable studs upstanding from the rear face of the element at points removed from the axis of the element, and guiding and receiving means on the rear face of the element for each stud, comprising an elongated recess extending in a direction to intersect the base of said stud and also to intersect a radial line of the tip.

1,452,421. LEATHER-STAMPING MACHINE. OLAF HALVORSEN and ALBION H. JOHNSON, Chicago, Ill.; said Johnson assignor to said Halvorsen. Filed Feb. 25, 1922. Serial No. 539,227. 7 Claims. (Cl. 101—9.)

1. In a stamping machine, a vertically movably supporting rod, a type carrier pivotally carried by said rod for movement into horizontal type receiving or unloading position and movement into vertical stamping position, a handle pivotally supported by said type carrier, and means formed upon said handle for cooperation with said rod to lock the type carrier in adjusted positions.



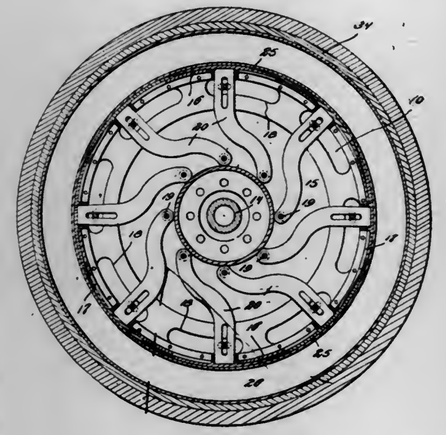
1,452,422. LOCK NUT. FRANK S. HAMILTON, Boston, Mass. Filed Mar. 3, 1920. Serial No. 363,050. 7 Claims. (Cl. 151—38.)



1. The combination with a bolt and a nut threaded thereon adapted to clamp a nonrotatable body, of means for locking said nut against rotation upon the bolt; said locking means comprising a lock washer having fingers adapted to be bent to one side of its plane into engagement with a face of the nut, to lock said nut and washer together, and having a flange on the opposite side of said plane; an anchor plate around said bolt between said washer and the non-rotatable body, having an edge adapted to engage the said flange to prevent rotation of the nut with respect to the plate, and having an edge for engaging the nonrotatable body whereby the plate is held against rotation; the portion of the anchor plate surrounding the bolt being split and its sections bent oppositely to exert pressure axially along the bolt to hold the clamp taut.

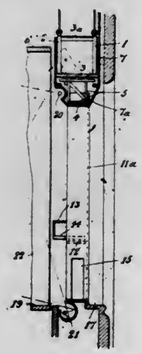
1,452,423. VEHICLE WHEEL. JAMES B. HARMON, Helena, Mont. Filed Sept. 19, 1921. Serial No. 501,531. 2 Claims. (Cl. 152—28.)

1. A wheel of the character described comprising a pair of side plates formed centrally with openings, a hub member disposed between said side plates and having an axle receiving opening of considerably less diameter than said holes, said hub member including a pair of side discs each formed with series of slots, a ring member connected with the outer edges of said second named discs and formed with a plurality of slots, a plurality of spokes having their inner ends pivotally connected with the hub member and having their outer ends slotted, pins passing transversely through said first named slide plates and through said first named slots and through the slots in the spokes, the outer ends of the spokes being adapted to pass through the slots in said ring member, an expansible member formed of a plurality of



arcuate spring plates arranged in overlapping relation and surrounding said ring member, an inflatable tube surrounding said series of overlapped spring plates, and a rim connection with the outer edges of said first named side plates.

1,452,424. ADJUSTABLE SCENE PORTAL IN THEATERS. MAX HASAIT, Dresden, Germany, assignor to Aktiebolaget Ars, Stockholm, Sweden, a Corporation. Filed May 26, 1921. Serial No. 472,777. 7 Claims. (Cl. 46—70.)

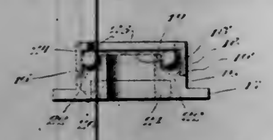


1. Adjustable scene-portals in theaters, comprising an upper portal part movable up and down a foot-bridge connected with the said upper portal part at the middle thereof, recesses provided in said foot-bridge at the ends of the portal part, and side parts of the portal movable to and fro in said recesses.

1,452,425. CAP-SPINDLE WASHER. JAMES T. HEMINGWAY, Woonsocket, R. I. Filed July 26, 1921. Serial No. 487,763. 1 Claim. (Cl. 118—66.)

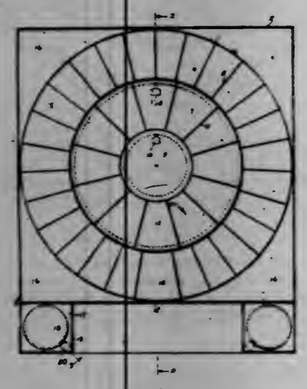
A device of the class described comprising a centrally bored body, the outer face of the body having a series of circumferential steps, a series of balls on one of the

steps, the vertical face of the ball supporting step being threaded, and a cap screwed onto the said threaded portion of the step in such position that the flange of the cap serves to prevent outward movement of the balls,



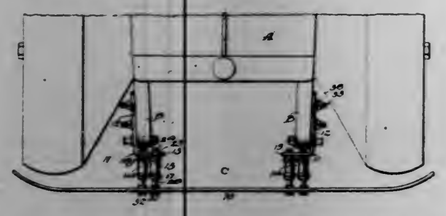
the body having a vertical flange above the ball carrying step serving to prevent inward movement of the balls, and the upper wall of the cap being formed with a central opening exposing portions of the balls for engagement by and supporting engagement with a spindle whirl.

1,452,426. BUILDING CONSTRUCTION. ROY HERBY IRWIN, Seattle, Wash. Filed Aug. 2, 1921. Serial No. 489,349. 2 Claims. (Cl. 20—1.13.)



1. A building in combination an annular series of storage spaces, each of said annular series of storage spaces providing a passage-way, and a turn table disposed within and encircled by said series.

1,452,427. AUTOMOBILE BUMPER. EDWARD W. KETTLITZ, New York, and GEORGE KUHN, St. Albans, N. Y. Filed July 20, 1922. Serial No. 576,280. 3 Claims. (Cl. 293—55.)



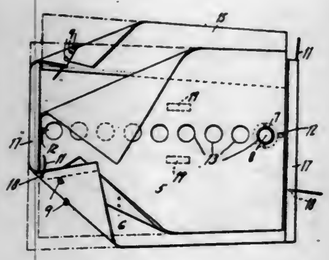
3. A bumper for automobiles including angular brackets each consisting of a rearwardly projecting terminal attached to the ends of the chassis frame and inwardly projecting outer terminals, a pair of forwardly projecting cylinders from each of said terminals, plungers telescopically mounted in each cylinder, a coiled contractile spring within each cylinder for normally projecting the plungers therefrom, and a crossbar secured to the outer free ends of the plungers.

1,452,428. FUEL-SUPPLY PUMP FOR INTERNAL-COMBUSTION ENGINES. HARRY FERDINAND LEISSNER, Sodertalje, Sweden. Filed Dec. 29, 1921. Serial No. 525,688. 2 Claims. (Cl. 123—139.)



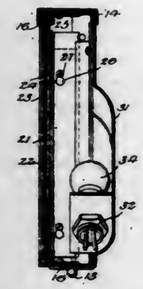
1. In a four stroke cycle internal combustion engine, the combination with pairs of cylinders, of a common fuel supply pump, a fuel admission valve for each cylinder, a rocking shaft for each pair of fuel valves, and two cams on each rocking shaft to each control one of said valves, said rocking shaft being driven from a control shaft, rotating with half the number of revolutions as that of the engine shaft operating the fuel supply pump.

1,452,429. SPRING OILER. GEORGE T. LEMELIN, Springfield, Mass., assignor of one-half to Edward A. Menard, Springfield, Mass. Filed July 31, 1922. Serial No. 578,582. 6 Claims. (Cl. 267—37.)



1. In a spring oiler, an outer cover of flexible material provided with oil-receiving means, and perforated to receive the ends of the spring clip, an extension secured to said cover adjacent to one longitudinal edge thereof and extending beyond the same, and an inner cover of absorbent material adapted to have portions thereof thrust by said clip ends through the perforations in said outer cover, and fastening means for said outer cover.

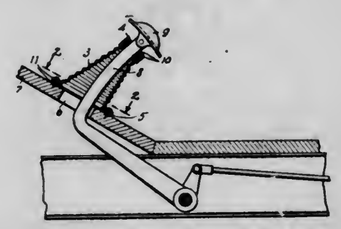
1,452,430. AUTOMOBILE LICENSE BOX. CHARLES G. MERCER, New York, N. Y. Filed June 5, 1922. Serial No. 566,052. 4 Claims. (Cl. 40——132.)



1. A license box comprising a closure formed with a body and a front hinged thereto, a plurality of angle bars

secured respectively to said body and to said front, said angle bars carried by the front, each having one leg spaced from the front wall of said front and the other leg overlapping the angle bars carried by the body for producing a substantially water-tight structure when the front is closed on the body, and means having cut-out portions indicating numbers carried by the front and clamped in place between said front wall and said legs of the angle bars spaced from said front walls, together with illuminating means arranged interiorly of said body.

1,452,431. AUTOMOBILE PEDAL ATTACHMENT. GEORGE A. MILKIE, Brooklyn, N. Y. Filed Sept. 19, 1922. Serial No. 589,161. 1 Claim. (Cl. 74—81.)



As a new article of manufacture, a fume-trap for an automobile pedal including a bellows member of decreasing cross-section from bottom to top, a neck portion including a ring of elastic material, a base including a plurality of flat frame members of rigid material and a sheet member of flexible material interposed between said frame members, and a sleeve of flexible material having at one end a reduced portion constituting with said ring said neck portion, said sleeve being formed at its other end to establish said sheet member.

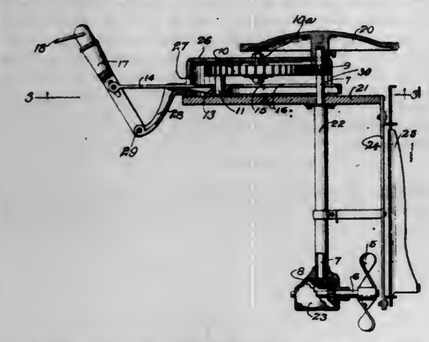
1,452,432. MATERIAL BUILDING UNIT. VERNON J. MILLER, East Orange, N. J. Filed Apr. 5, 1921. Serial No. 458,661. 1 Claim. (Cl. 72—26.)



A material building unit, including an impervious face-plate having a reinforced rigidified plastic backing secured thereto and having indentations therein filled with the plastic material of said backing plate, being substantially parallel to those of the facing plate, the walls of said backing plate being substantially parallel to those of the face-plate, the members interlocking along their longitudinal edges and ends by means of offset-portions which project along one side and edge and inset from the opposite side and edge.

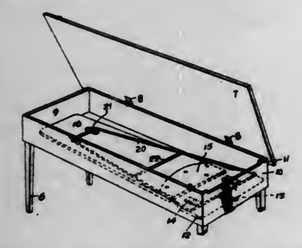
1,452,433. MANUALLY-OPERATED BOAT. JOHN K. MILTON, Chicago, Ill. Filed Aug. 11, 1920, Serial No. 402,784. Renewed Nov. 18, 1922. 2 Claims. (Cl. 115—24.)

1. A boat propelling means comprising a portable base plate having means for attachment to a boat, a propeller shaft, a vertical drive shaft geared to the propeller shaft, a pinion on the drive shaft, a spur gear in mesh with the pinion, driving-means for the spur gear, a housing carried by the base plate and enclosing the spur gear and the pinion, said housing also supporting the spur gear, and a tubular housing and support for the drive shaft carried



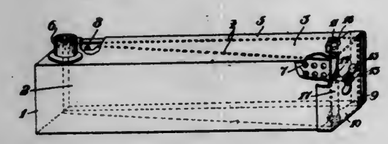
by the base plate, said housing also having an enclosure for the gearing between the propeller shaft and the drive shaft, and a support for the propeller shaft.

1,452,434. COMBINATION FURNITURE. ARTHUR LIVINGSTON NEIL, Brooklyn, N. Y. Filed Nov. 30, 1920. Serial No. 427,379. 1 Claim. (Cl. 68—10.)



In combination with a table having a hinged lid adapted to form the top of the table, the top edge of one of the end walls of said table being cut away, a board pivotally mounted in the table adjacent the said cutout end wall and having its upper edge flush therewith, a second board hingedly connected to said edge and having a thickness equal to the depth of said cutout, an ironing board carried thereby whereby the ironing board may fold outwardly of the table to a horizontal position and have its upper face lying in a plane flush with the top face of the lid forming the table top when the lid is in its closed position.

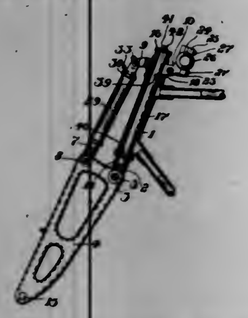
1,452,435. EXHAUST SILENCER FOR INTERNAL-COMBUSTION ENGINES. CYRIL G. PULLIN, Isleworth, England. Filed Apr. 12, 1920. Serial No. 373,038. 7 Claims. (Cl. 137—160.)



7. An exhaust silencer for internal combustion engines comprising a casing, a V-shaped baffle therein, so disposed that the casing is divided into three compartments, two adjacent tapering compartments, and a third of substantially even sectional area throughout, port admitting exhaust gases to the wide end of one tapering compartment,

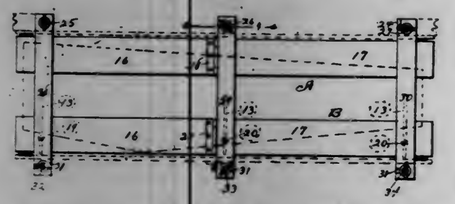
openings in said baffle connecting the smaller end of the last mentioned tapering compartment to the large end of the other tapering compartment openings in the said baffle connecting the smaller end of the said other tapering compartment with the third compartment of even sectional area, a detachable cap on the outlet end of said casing, means adapted to secure the caps to the casing, spacing means adjacent the cap between the opposite walls of the casing, and an outlet opening in said cap registering with the outlet end of said compartment of even sectional area.

1,452,436. FRONT FORK FOR VELOCIPEDES. CYRIL GEORGE PULLIN, Isleworth, England. Filed July 20, 1920. Serial No. 397,572. 1 Claim. (Cl. 208—97.)



In combination on a velocipede, a ball head tube having a tubular T-shaped lower extremity, a transverse main hinge pin carried by said T piece, a pair of sheet metal triangular members, forming the arms of the front fork of the velocipede, mounted on said main hinge pin at the rear corners of their bases, and separated by said tubular T piece, means retaining said triangular members on said hinge pin, and against said tubular member, means connecting the apex of each triangular member to the respective end of the spindle of the front road wheel of the velocipede, and shock absorber means connecting the forward base corner of each triangular member to a point adjacent the top of said ball head tube, said shock absorber having a lower T shaped extremity carrying a bearing for a forward hinge pin projected through the forward base corners of said triangular member and the said T shaped extremity and having a lubricant conduit, leading from the interior of said shock absorber to said forward hinge pin.

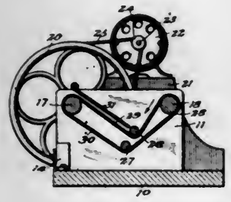
1,452,437. TROUSERS HOLDER AND PRESS. HANS EJNAR RASMUSSEN, Graettinger, Iowa. Filed Apr. 18, 1922. Serial No. 553,109. 6 Claims. (Cl. 100—57.)



1. A trousers holder and press, comprising base members, a clamp fixed thereto, a clamp slidingly mounted on the base members substantially parallel with the first clamp, clamping bars pivoted to the base members and adapted to overlie both clamps, and means for clamping the bars on said clamps.

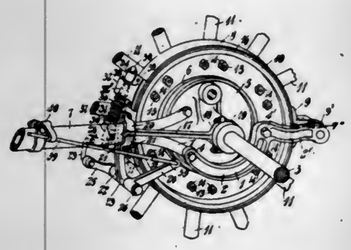
4. A trousers holder and press, comprising spaced base members each formed with a longitudinal slot, clamp members extending transversely of and fixed to said base members, clamp members hinged to the first clamp members, and hinged together, other clamp members slidingly connected to said base members, further clamp members hinged to said other clamp members and hinged together, bars pivoted to the base members and adapted to extend across both clamps, and means for clamping said bars toward said base members.

1,452,438. DEVICE FOR STRAIGHTENING PHOTOGRAPHIC PRINTS. CARL H. RISE, Rapid City, S. Dak. Filed Apr. 11, 1922. Serial No. 551,621. 3 Claims. (Cl. 25—70.)



1. A device for effecting the straightening of photographic prints which have become curled during the drying process, comprising a pair of rollers mounted in spaced relation, a stationary element, an endless belt trained around said rollers with the outer surface of the upper lead trained under the stationary element, and means for driving said belt.

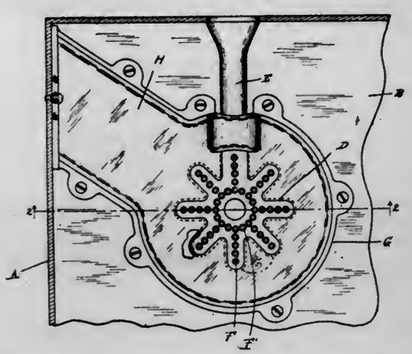
1,452,439. ATTACHABLE BRAKE. ELMER R. RITTER, Cincinnati, Ohio, assignor to Steve A. Wuestefeld, Cincinnati, Ohio. Filed Nov. 24, 1919. Serial No. 340,157. 14 Claims. (Cl. 188—77.)



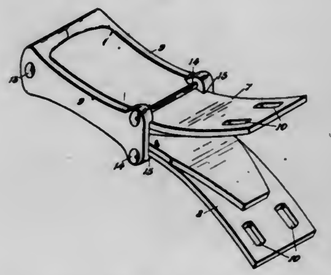
1. In an attachable brake, a brake-drum, means for attaching said drum to the wheel of a vehicle, operating means for exerting braking pressure on said drum, and a strut supporting said operating means and attachable directly to the axle-casing and directly to the adjacent radius rod of said vehicle.

1,452,440. GAS BURNER. WILLIAM V. ROBINSON, Owosso, Mich., assignor to The Independent Stove Co., Owosso, Mich., a Corporation of Michigan. Filed Nov. 30, 1921. Serial No. 518,752. 6 Claims. (Cl. 158—99.)

6. The combination with an imperforate wall of a gas burner mounted thereabove, and an air supplying device for said burner comprising a sheet metal hood adapted to fit over said burner and cut away to permit of the protruding therethrough of the burner tips and said cut away portion forming a passage-way for a narrow stream of air adjacent to the flame, an integral laterally extending conduit for supplying air to said hood and flanges on said hood and conduit respectively adapted to be secured to said imperforate wall.

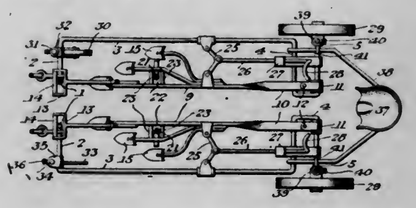


1,452,441. AUXILIARY SPRING OR SHOCK ABSORBER FOR VEHICLES, PARTICULARLY MOTOR VEHICLES. THOMAS HENRY RODDA, Joslin, and BERTIE NORMAN RODDA, Torrensville, South Australia, Australia. Filed Jan. 7, 1922. Serial No. 527,731. 7 Claims. (Cl. 267—46.)



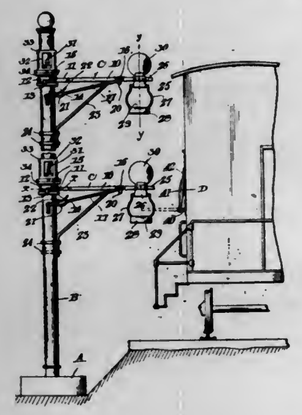
1. An improved auxiliary spring for vehicles comprising:—two curved members arranged in V form with their convex faces opposed, clamping plates enclosing the adjacent ends of said spring members extending along the edge thereof, and means carried by the extended portions of the plates for engaging said springs at a point remote from said end to limit the opening movement of the spring members.

1,452,442. CULTIVATOR. ELI S. ROUSH, Lynchburg, Ohio. Filed July 31, 1920. Serial No. 400,440½. 7 Claims. (Cl. 97—156.)



1. An implement of the class described, comprising a main frame having forward upright portions and U-shaped rear portions, beams mounted on the rear portions for vertical and horizontal swinging movement, said beams being mounted for free vertical and limited horizontal play on the upright forward portions of the main frame, and means for adjusting the beams with respect to the main frame.

1,452,443. APPARATUS FOR DELIVERING MESSAGES TO MOVING TRAINS AND THE LIKE. JOHN RUTTER, Edmonton, Alberta, Canada. Filed Mar. 5, 1921. Serial No. 450,039. 3 Claims. (Cl. 258—26.)



1. A device of the character described comprising in combination a pivotally mounted delivery arm, message carrying means, means for detachably connecting the message carrying means with the delivery arm, a bracket for supporting the outer ends of the delivery arm, engaging means adapted to be mounted on the moving body adapted to engage the message carrying means and a roller on the delivery arm adapted to engage the bracket, the said bracket being of semi-circular shape formed with a notch at the centre and one at each end and the end notches adapted to retain the roller therein.

1,452,444. WELL TOOL. CHARLES ALFRED SAMUELL, Hedgesville, Mont. Filed May 10, 1921. Serial No. 468,323. 1 Claim. (Cl. 294—102.)



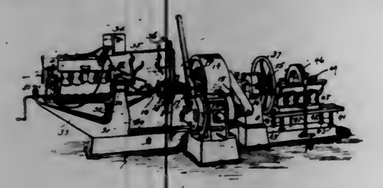
A device of the character described comprising in combination, a tubular member of uniform diameter throughout its length and open at both ends, spaced par-

allel arms projecting from one end of the member, curved blade-like members supported by the lower extremities of said arms and forming an integral part thereof, said blade-like members contacting at a point adjacent the upper ends thereof, and shaped to provide a flared entrance passage between said blades, and a lifting device including a second tubular member adapted to be received by the first mentioned tubular member and arranged above the latter.

1,452,445. SILICATE COMPOSITION. LÉON SEIDEMAN, New York, N. Y. Filed June 2, 1920. Serial No. 386,059. 2 Claims. (Cl. 134—76.)

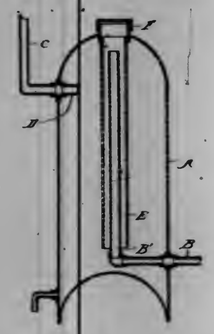
2. A metallic paint composition which consists of a water-soluble silicate, a vegetable oil, and a metallic powder.

1,452,446. ENGINE-BEARING BURNING-IN AND RUNNING-IN MACHINE. JOSEPH H. STALEY, Columbus, Ind. Filed Mar. 1, 1921. Serial No. 448,876. 15 Claims. (Cl. 29—1.)



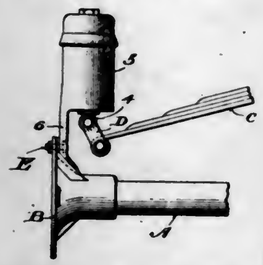
1. In a machine of the character specified, a base, a shaft journaled intermediate the ends of the base, a second shaft also journaled intermediate of the ends of the base but out of alinement with the first shaft, speed changing means connecting the two shafts, means to receive and hold an automobile engine in position with its crank shaft alined with said first shaft, means for operatively connecting said crank shaft and first shaft, means to receive and hold the block of an automobile engine with its crank shaft alined with the second shaft, and means for operatively connecting said last crank shaft and second shaft.

1,452,447. WATER SEPARATOR FOR AIR TANKS. EMERSON B. THATCHER, Marine City, Mich. Filed July 30, 1921. Serial No. 488,746. 1 Claim. (Cl. 183—75.)



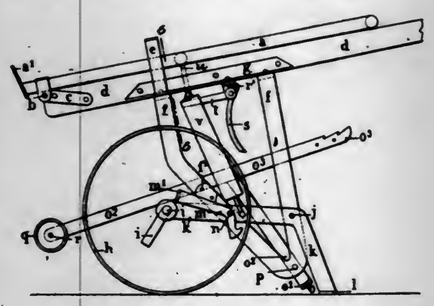
The combination with an air storage tank, of an inlet conduit therefor having a portion extending from the upper end of the tank vertically downward to near the bottom thereof and provided with another portion which extends within said first-mentioned portion vertically upward and is in open communication therewith at its upper end.

1,452,448. SUPPORT FOR VEHICLE SPRINGS. CLARANCE W. THOMPSON, Wilmington, Del., assignor to Thompson Spring Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 16, 1922. Serial No. 582,289. 5 Claims. (Cl. 269—29.)



1. In a vehicle-spring device, a member constituting a spring-supporting part thereof, and extending from a side of said member a support disposed in its portion adjacent to said member substantially parallel with the axis thereof and having a foot extending toward said axis, said foot and portion of the support adjacent to said member being arranged to abut closely against an axle structure and a flange-like member thereon and to be secured against those parts.

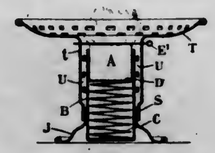
1,452,449. APPARATUS FOR HEAPING OR PILING UP PACKAGES, BAGS, AND THE LIKE. JEAN CLAUDE THOUVIOT, Paris-L'Hopital, France. Filed July 2, 1920. Serial No. 393,499. 8 Claims. (Cl. 254—3.)



1. An apparatus for heaping or piling up packages, bags and the like, comprising a pole, a pivoted frame *e* on the pole, a frame *f*, arms *k* pivoted to the frame *f*, an axle *i* mounted in the arms, wheels *h* on the axle, a prop *o* pivoted to the frame *f* and having a rack e^3 at one end, rollers *q* mounted in the other end of the prop, a retaining pawl *s* on the frame for engaging the rack of the prop, and hooks *m* on the prop for engaging the arms *k* to maintain the axle of the wheels in fixed position.

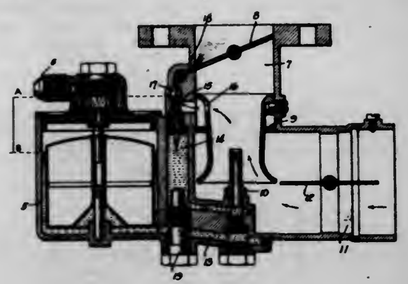
1,452,450. BURNER FOR BURNING METALDEHYDE. CARLO TOMMASI, JOHN SANDHOLM, HEINRICH DANNEEL, and AUGUSTO BUSCH, Basel, Switzerland, assignors to Elektrizitatswerk Lonza, Gampel, Canton of Valais, Switzerland, a Corporation of Switzerland. Filed July 19, 1921. Serial No. 485,950. 9 Claims. (Cl. 158—96.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

9. A burner for bodies of metaldehyde having a protecting sheath surrounding a part of a fuel body and constructed of a material which is a bad conductor of heat, a cup-shaped carrier, perforated for the passage of air, arranged around the protecting sheath and adapted to receive a supplementary supply of metaldehyde in the form of tablets or the like and having its lower part formed of a material which is a bad conductor of heat, a device which tends to push forward automatically the fuel body



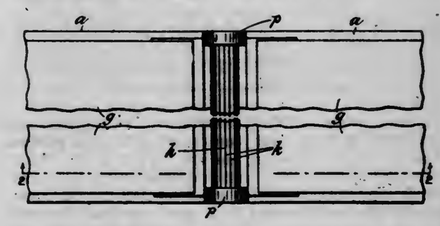
correspondingly with its consumption, and a retainer for the fuel body, mounted on the said cup-shaped carrier and being vertically adjustable relatively to the upper edge of the protecting sheath.

1,452,451. CARBURETOR. ARTHUR H. WEBBER, Boston, Mass. Filed Dec. 7, 1920. Serial No. 428,944. 1 Claim. (Cl. 261—41.)



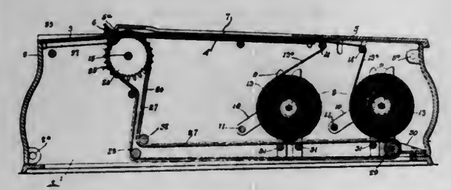
A carburetor including in combination a body providing a mixing chamber, a venturi positioned in advance of said mixing chamber, a throttle valve positioned at a point beyond said mixing chamber, a nozzle extending into said venturi, said carburetor being formed with a well having its end extending into a plane above that occupied by the upper end of the nozzle to permit fuel to stand therein at a level higher than the upper end of said nozzle, a source of fuel supply connected to both said nozzle and well, a second nozzle communicating with the upper end of said well, said carburetor being formed with an opening for the passage of air past said last-named nozzle and also providing a mixing chamber adjacent said nozzle, said carburetor body being further formed with a pasage extending from said last-named mixing chamber to a point adjacent said throttle valve.

1,452,452. BINDING CASE FOR HOLDING SHEET MUSIC AND THE LIKE. JOHN WILLIAM WEST, Camberwell, London, England. Filed Oct. 12, 1921. Serial No. 507,269. 5 Claims. (Cl. 129—39.)



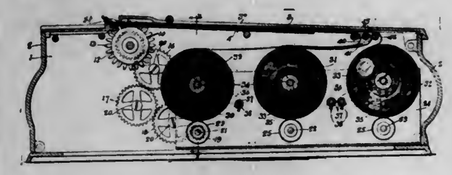
1. In a binding-case, the combination with the rigid back-member and a string-bar on the back-member and provided with straining bridges at its ends, of a pair of cleat-pins fixed at the respective ends of the string-bar beyond the corresponding straining bridges, and a plurality of binding-strings constituted by successive portions of the length of a single continuous string passed to-and-fro from end to end over the convex surface of the string-bar and repeatedly doubled around each in turn of the respective cleat pins, substantially as set forth.

1,452,453. AUTOGRAPHIC REGISTER. AUGUST A. WIMMERS, Dayton, Ohio., assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 13, 1920. Serial No. 358,557. 13 Claims. (Cl. 281—11.)



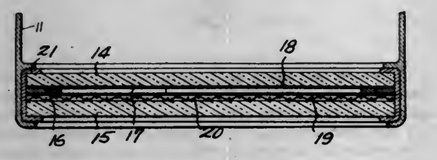
4. An autographic register comprising a casing having an opening, a paper support below the opening, manually operated devices for drawing the paper over the support, a paper roll supporting shaft and an endless band paper pay off device adapted to engage a paper roll arranged upon the supporting shaft and to pay off the paper as it is drawn over the paper support.

1,452,454. AUTOGRAPHIC REGISTER. AUGUST A. WIMMERS, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed July 2, 1920. Serial No. 393,489. 14 Claims. (Cl. 281—11.)



1. An autographic register comprising a casing having an opening and a paper support below the opening, a paper-feeding mechanism comprising a manually operated actuating device, a paper feeding device extending above the paper support to engage and feed the strips of paper a predetermined amount at each actuation, of the actuating device, and co-acting devices to rotate the rolls of paper to cause them to pay off the same amount of the paper as is fed above the paper support.

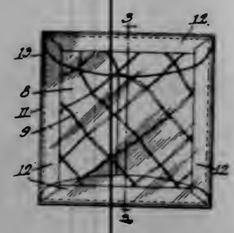
1,452,455. SIGNAL. LESLIE G. BELL and MORRIS GRIMM, Montreal, Quebec, Canada. Filed Dec. 27, 1921. Serial No. 525,065. 11 Claims. (Cl. 40—135.)



1. In a device of the class described, the combination with a source of light, of a sheet of paper arranged to be

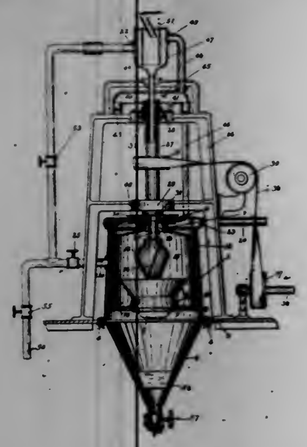
illuminated thereby and to become a secondary source of light, a second sheet of paper arranged to give passage to light from said secondary source, said latter sheet serving also to reflect external light and signal means interposed between said sheets to define the shape of beams of light passing from the secondary source of illumination to the reflecting sheet.

1,452,456. SANITARY PACKAGE. MORRIS CAUPAIN, Newark, N. J. Filed Nov. 9, 1922. Serial No. 599,850. 3 Claims. (Cl. 206—46.)



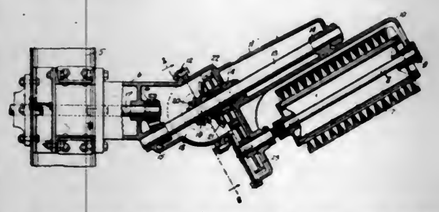
1. A sanitary package for hair nets, comprising a flat supporting sheet, a hair net smoothly drawn over one face of said sheet so as to exhibit the mesh of the net and bunched on the opposite face of said sheet, the relative size of the hair net and sheet being such that bunching of the net on one side of the sheet results as a natural consequence in forming the package, an opaque wall opposed to the face of the sheet on which the net is bunched whereby the hair net on such face is concealed, and a transparent wall opposed to the other face of the sheet through which the hair net is exposed to view.

1,452,457. APPARATUS FOR SEPARATING SEEDS. EDGAR DUNCOMBE EDDY, Toronto, Ontario, Canada. Filed Jan. 31, 1922. Serial No. 533,038. 10 Claims. (Cl. 83—82.)



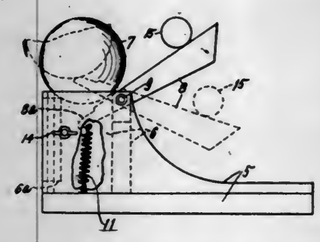
1. In seed and grain separators, the combination with the casing adapted to be filled with liquid, of an enclosed hollow seed separating rotor, means for introducing liquid and the seeds or grain to be separated therein into the rotor, means for introducing liquid under pressure into the casing, adjustable discharge means at the bottom of said casing and adjustable means for feeding liquid into the casing.

1,452,458. CLEANING BRUSH. EUGEN GEIGER, Karlsruhe, Germany, assignor to William L. D'Oller, New York, N. Y. Filed Aug. 18, 1921, Serial No. 493,434. Renewed Oct. 25, 1922. Serial No. 596,898. 5 Claims. (Cl. 15—21.)



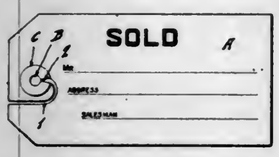
1. A cleaning device including a brush comprising a body portion, a shaft mounting said body portion, means for rotating said shaft, and means for bodily oscillating said shaft, the axis of oscillation extending in a line substantially parallel to the body of the brush.

1,452,459. BALL-THROWING TOY. JOSEPH W. GREENFIELD and WILLIAM WALLER, St. Paul, Minn. Filed Apr. 3, 1922. Serial No. 548,951. 2 Claims. (Cl. 124—1.)



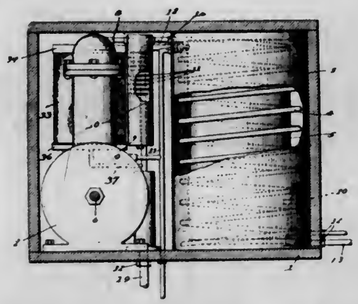
2. In a device of the class described, a base having a vertical tubular portion adapted to support a ball in the longitudinal vertical plane of a beam lever, a beam lever tilting on a horizontal pivot in a vertical slot in said tubular portion, the outer end of the lever being adapted to be struck downward and the opposite end thereof being arranged to throw the ball when the outer end of the lever is hit, means for automatically raising the struck arm of the lever after each stroke, and means for varying the position of the ball when at rest as to its distance away from the fulcrum of the lever.

1,452,460. TAG. THOMAS I. HART, St. Louis, Mo. Filed May 1, 1920. Serial No. 378,290. 1 Claim. (Cl. 40—21.)



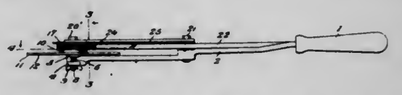
A tag provided with a reinforcing washer provided with cord-receiving hole, said washer being located adjacent to an end edge of the tag and the portion of the washer which lies furthest from said end edge having a tapering slot to provide a restricted inlet opening for the admission of the cord to said hole, said tag being provided with an approximately J-shaped and relatively wide cord receiving passageway leading from said end edge of the tag to said restricted inlet opening.

1,452,461. REFRIGERATING APPARATUS. CURTISS L. HILL, Dayton, Ohio. Filed Dec. 12, 1919. Serial No. 344,384. 1 Claim. (Cl. 62—116.)



A refrigerating system comprising a casing, means for compressing the refrigerating medium used in the system, means for extracting the oil from the compressed refrigerating medium, means for cooling the compressed refrigerating medium after the oil is extracted therefrom, means for conveying the cooled compressed medium through the system and thence back to the compressor, a water saturated cotton wick arranged within the casing and being adapted to collect any escaping refrigerating medium from the system, a water supply pipe in communication with the wick, means associated with the wick to convey the escaped refrigerating medium from the system and means for increasing the volumetric capacity of the system.

1,452,462. HEDGE TRIMMER. JAMES A. HOUSEMAN, York, Pa. Filed June 11, 1921. Serial No. 476,868. 2 Claims. (Cl. 30—11.)



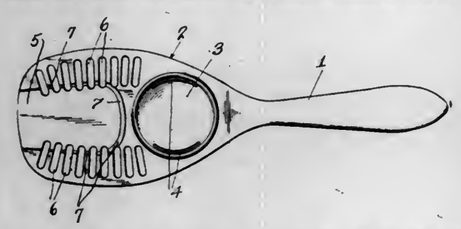
1. In a hedge trimmer, a handle having a shank extension provided with a shaft, a stationary blade secured on the shaft, a second blade centrally mounted for rotary movement on the shaft, a pinion freely mounted on the shaft, having means coengaging with means on the rotary blade whereby to impart motion to the blade, when the pinion is revolved, a second shank pivoted to the first mentioned shank, said second shank having its outer end provided with a handle and its inner end with a toothed segment to engage with the pinion, and said means between the pinion and rotary blade permitting a rotary movement being imparted to said blade when the pinion is influenced by the segment and the oscillatory movement of the second mentioned shank.

1,452,463. METHOD AND COMPOSITION FOR CEMENTING OIL WELLS. FREDERICK W. HUBER, Riverside, Calif. Filed May 24, 1922. Serial No. 563,378. 7 Claims. (Cl. 106—24.)

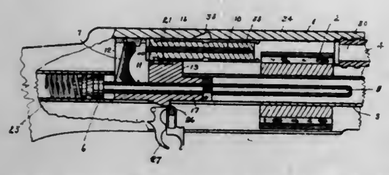
1. The method of cementing oil wells which consists in forcing into the space to be cemented, a thin grout consisting of Portland cement, water and an alkaline earth metal chloride, sufficient water being present therein to form a thin grout, capable of being pumped.

1,452,464. SPOON. SEBRIGHT B. ISAACS, Kansas City, Mo. Filed Mar. 14, 1921. Serial No. 451,994. 1 Claim. (Cl. 294—7.)

A culinary implement of the character described comprising a rolled handle, a widened extension formed integrally therewith and adjacent one end thereof, a flat blade formed on the end of the widened extension opposing the handle and designed to be below the surface of the extension, as and for the purpose specified.

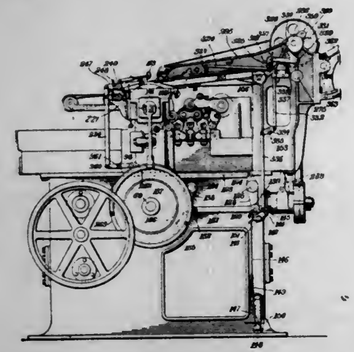


1,452,465. ACTUATOR FOR MACHINE GUNS. MILLARD L. JOHNSTON, Utica, N. Y. Filed Jan. 8, 1918, Serial No. 210,912. Renewed Feb. 28, 1923. 3 Claims. (Cl. 42—3.)



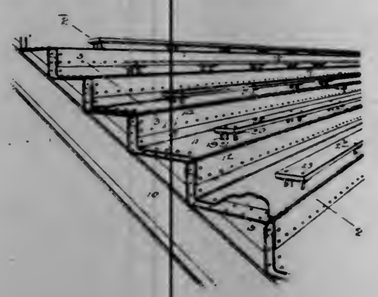
1. In an actuator for machine guns having a casing, a breech bolt containing a firing pin, a piston carrying a hammer, a dog having a depending lug adapted to lie in front of said hammer, and a recess in said casing whereby said hammer can slip by said lug to strike the firing pin.

1,452,466. PRINTING PRESS. WILLIAM M. KELLY, Jersey City, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 20, 1914. Serial No. 820,042. 34 Claims. (Cl. 271—45.)



1. In a printing press, the combination of a pivotally supported feed board, a pivotally mounted frame arranged above said board, said frame and board having cooperating sheet manipulating means, the portion of said means on the board being disposed under said frame, and mechanism to operate said means, the pivotal mountings of the feed board and frame being constructed and arranged so that the frame may be raised to permit sheets to be fed from the feed board and both the frame and feed board may be raised to give access to parts thereunder without disconnecting said mechanism.

1,452,467. GRAND-STAND CONSTRUCTION. BYRON JAMES LAMBERT, Iowa City, Iowa. Filed Sept. 7, 1922. Serial No. 586,712. 5 Claims. (Cl. 189—1.)



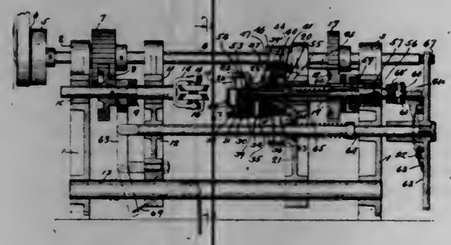
1. A stepped structure of the class described, including plates Z-shaped in cross section and joined to form treads and risers, and butt spliced joints at the end edges of said plates, said joints comprising splice members following generally the Z-shaped lines of said plates and disposed beneath the same to overlap adjacent plates.

1,452,468. TOOL FOR INSERTING PISTON RINGS. ROSS LEE, Chaffee, Mo. Filed Mar. 20, 1922. Serial No. 545,109. 4 Claims. (Cl. 29—86.4.)



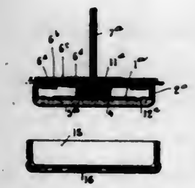
1. In a device of the character described, a main handle, an auxiliary handle pivotally mounted thereon, a resilient ring having one end secured to said main handle, a threaded rod secured to the opposite end of said resilient ring, and connections between said auxiliary handle and said rod to contact said ring when the auxiliary handle is swung on its pivot.

1,452,469. BALL-WINDING MACHINE. EVARTS G. LOOMIS, Newark, N. J., assignor to St. Mungo Manufacturing Company of America, Newark, N. J., a Corporation of New Jersey. Filed June 7, 1922. Serial No. 566,468. 17 Claims. (Cl. 242—3.)



1. The method of winding a sphere which method consists in rotating the sphere a predetermined number of times about a predetermined fixed axis while simultaneously moving the plane of winding of the thread in a direction parallel to said axis to cause the thread to traverse the ball, intermittently rotating the sphere on secondary axes at an angle to said fixed axis and simultaneously imparting a third rotary motion to the sphere alternately in the same and in an opposite direction to the motion of the sphere about the predetermined fixed axis.

1,452,470. POWDER PUFF. JOSEPH EUGÈNE BAPTISTE MAILLARD, Coulombs, France. Filed Jan. 2, 1920. Serial No. 349,117. 2 Claims. (Cl. 132—78.5.)



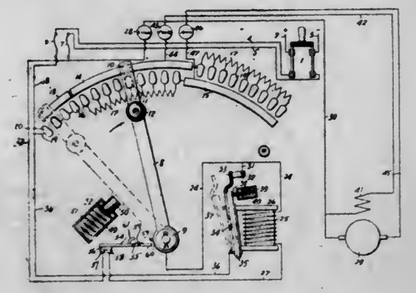
In a powder puff containing powder and serving for the gradual supply of the same, the combination of a bottom piece used as a bearing surface, a circular ring formed thereon, a movable disk disposed within the said circular ring, a spring disposed between the bottom piece and the movable disk, a band of impermeable fabric secured within the circular ring and upon the said movable disk, a band of permeable fabric closing the open side of the circular ring, compressed powder between the movable disk and the said permeable fabric, a top portion covering the bottom piece on the outer side, and a handle disposed upon the said top portion.

1,452,471. LOCK AND LOCK MOUNTING. EVERETT C. KLINE, Cincinnati, Ohio, assignor to The Laminated Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 24, 1921. Serial No. 524,605. 1 Claim. (Cl. 70—14.)



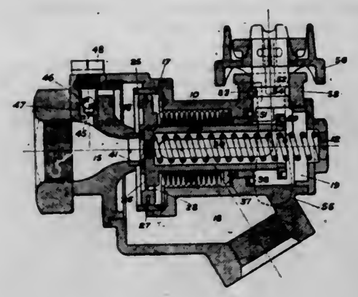
In a lock mounting the combination with a wall having an aperture therein, of blocks mounted on the wall at opposite sides of the aperture, extending toward one another, one of said blocks having a slot opening toward the other block, a plate adapted to be seated in the aperture in the wall and to close said aperture and having a slot therethru, a band mounted on the plate, a lock between the band and the plate to which access may be had thru the slot in the plate, a bar between the lock and the band, a lug on the bar adapted to lie between and in engagement with the plate and the slotted block, the slot in the block being adapted to accommodate the bolt of the lock, and a lug on the plate adapted to lie behind the other block, and to retain the plate in engagement with said other block.

1,452,472. CONTROLLER FOR MOTORS. CARL W. PLEHATY, White Plains, N. Y., assignor of one-half to Francis R. White, White Plains, N. Y. Filed Jan. 25, 1922. Serial No. 531,791. 6 Claims. (Cl. 172—179.)



1. A motor controlling device which comprises a source of current, a rheostat having an arm, a switch, circuit connections between the above mentioned elements including the motor, said switch being normally open, said rheostat arm having normal, abnormal and operative positions, means made effective when the handle is moved to the abnormal position to effect the closing of the normally open switch whereby the power is applied to the rheostat to be applied to the motor in accordance with the further movement of the rheostat handle, and means engaging the handle when moved to its abnormal position, said means when the handle is released automatically returning it to a normal position.

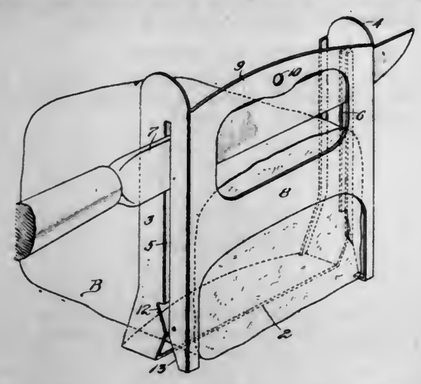
1,452,473. AUTOMATIC ANGLE COCK. FRANK DESMOND SPRAGUE, Newport, R. I. Filed Oct. 22, 1921. Serial No. 509,754. 8 Claims. (Cl. 303—86.)



1. The combination with an air brake system, of an automatic valve located in and controlling the passage of air through the brake pipe, which when once opened will automatically maintain this opening so long as the hose couplings between cars are connected, and means for manually opening said valve.

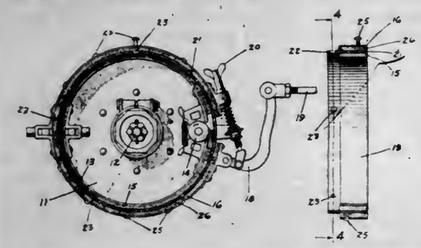
1,452,474. BREAD SLICER. JASPER WHITING, Boston, Mass. Filed Aug. 8, 1922. Serial No. 580,499. 8 Claims. (Cl. 146—12.)

1. A bread slicing device comprising in combination, a base having upright guides spaced apart to receive a loaf of bread between them, each of said guides having a vertical knife guiding slot therein open at its lower end and extending to a point near the top of the guide, and



means connecting said guides at the front of the device and forming an abutment for the end of the loaf of bread.

1,452,475. METHOD OF RELINING MOTOR-VEHICLE BRAKE BANDS. ROBERT SARDESON, Minneapolis, Minn. Filed Nov. 25, 1921. Serial No. 517,728. 5 Claims. (Cl. 218—29.)



4. The method of relining a motor vehicle brake-band which consists in removing the wheel and brake-drum, removing the old lining from the brake-band while the latter remains substantially in its normal position in the vehicle, placing a new lining and an anvil adjacent the brake-band with the lining between the brake-band and anvil, driving fastenings through the band and lining and against the anvil to clinch the fastenings and secure the lining and band together while the latter still remains substantially in said position, and removing the anvil.

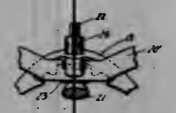
1,452,476. CHAIN LINK. CLARK E. CARTER, Montreal, Quebec, Canada. Filed Mar. 15, 1922. Serial No. 543,930. 3 Claims. (59—85.)



1. A link of the type described comprising a pair of relatively slidable shank, an eye formed upon one end of

each shank and embracing the opposite shank whereby said eyes are adapted to contact with each other to limit in one direction the slidability of the shanks, and hooks formed upon the remaining ends of the shanks.

1,452,477. DENTAL ARTICULATOR. EDWARD L. CHOTT, Chicago, Ill. Filed May 29, 1922. Serial No. 564,449. 2 Claims. (Cl. 32—1.)

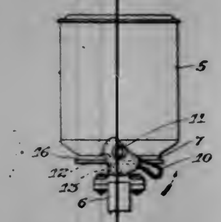


1. A dental articulator comprising a base frame having uprights thereon; there being inclined depressions in said uprights; a cross piece connecting said uprights and having a portion thereof intermediate its ends inclined in a plane substantially parallel with the incline of said depressions; adjustable guide means tapped through said inclined portion; a second frame having members pivotally and slidably mounted in said depressions; an extension on said second frame adapted to slidably engage said adjustable guide means during lateral movement of said second frame in said depressions; and levers on said members for operating said second frame and adapted to hold said extension in close engagement with said adjustable guide means during lateral movement of said second frame.

1,452,478. PROCESS OF MAKING NICKEL FORMATE. CARLETON ELLIS, Montclair, N. J. Filed Mar. 21, 1921. Serial No. 453,989. 2 Claims. (Cl. 260—11.)

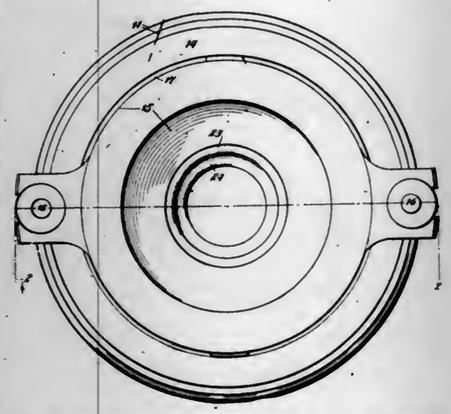
1. The process of making nickel formate adapted for use in the hydrogenation of oils which comprises forming a solution containing both nickel sulphate and sodium formate and concentrating such solution to a strength of about 37° Bé. to deposit nickel formate, in filtering and washing the latter.

1,452,479. LATCH MECHANISM. RALPH L. FORD, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Original application filed June 20, 1918, Serial No. 240,996. Divided and this application filed May 6, 1921. Serial No. 467,293. 6 Claims. (Cl. 221—118.)



1. In a planter, a support, a hopper hinged thereon, a bottom member also hinged on said support and on which the hopper normally rests, and a single latch device including means for locking the hopper to the support when the latch is moved to one position and also means for locking the bottom member to the hopper and releasing the hopper from the support when the latch is moved to another position.

1,452,480. APPARATUS FOR CASTING METALS. NATHANIEL K. B. PATCH, Buffalo, N. Y., assignor to Lumen Bearing Company, Buffalo, N. Y., a Corporation of New York. Filed Dec. 6, 1920. Serial No. 428,452. 5 Claims. (Cl. 22—60.)

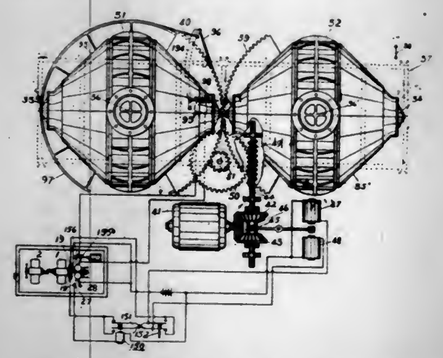


1. An apparatus for casting metals under the pressure of centrifugal force, comprising a rotatable head, and a molding flask mounted on said head to rotate therewith, said flask having a molding cavity in its upper portion and a comparatively deep well for molten metal in its lower portion communicating with said molding cavity.

1,452,481. MANUFACTURE OF 1.4 NAPHTHOL SULPHONIC ACID. JAMES BADDILEY, JOSEPH BARON PAYMAN, and ERNEST GRAHAM BAINBRIDGE, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed July 27, 1922. Serial No. 577,984. 6 Claims. (Cl. 260—155.)

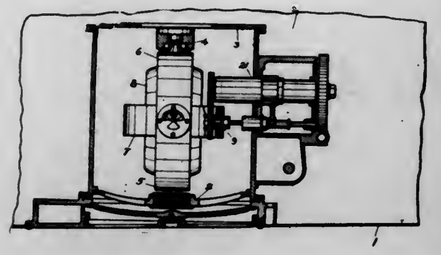
1. The process of manufacture of 1.4-naphthol sulphonic acid by acting upon alpha-naphthol with chlorsulphonic acid in the presence of a substantially inert solvent, substantially as described.

1,452,482. MEANS FOR GOVERNING THE ROLLING OF SHIPS. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 30, 1916. Serial No. 123,155. 25 Claims. (Cl. 74—78.)



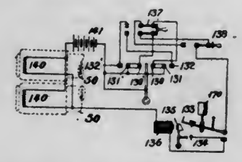
1. The combination with a ship, of means mounted thereon for maintaining a roll of predetermined amplitude and gyroscopic governing means for causing said other means to act in the natural period of the ship.

1,452,483. HORIZONTAL BEARING FOR GYROSCOPES. ELMER A. SPERRY, Jr., Brooklyn, N. Y. Filed Oct. 12, 1916. Serial No. 125,169. 9 Claims. (Cl. 74—78.)



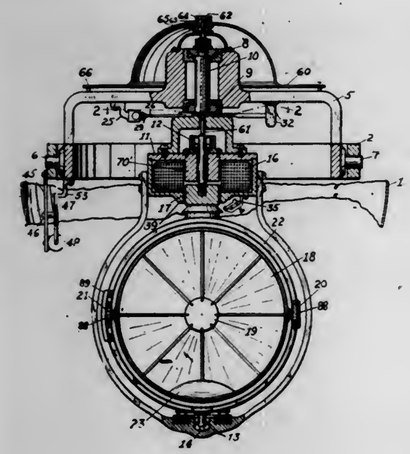
1. In combination a gyroscope comprising a rotor, a rotor bearing frame, a supporting ring, and a bearing including an upwardly pointed knife edge carried by said frame for supporting the frame in said ring.

1,452,484. METHOD OF GUNFIRE CONTROL FOR BATTLESHIPS. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Original application filed Sept. 30, 1916, Serial No. 123,155. Divided and this application filed July 2, 1920. Serial No. 393,557. 13 Claims. (Cl. 89—28.)



13. In combination with a ship, an ordnance appliance on said ship, and means for converting the rolling movements of the ship into movements of predetermined amplitude, and for causing said appliance to be discharged at a predetrmined point in said movements.

1,452,485. GYROSCOPIC COMPASS. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 8, 1917. Serial No. 200,889. 23 Claims. (Cl. 33—204.)



1. In a precission instrument, a pair of elements, a bearing for mounting said elements for relative rotation, and means for imparting to said elements a relative vibration in a plurality of planes.

Patents Nos. 1,452,486 to 1,453,259.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Issue of April 24, 1923.

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Labels	22—No.	25,847 to No.	25,868, inclusive.
Prints	8—No.	6,668 to No.	6,675, inclusive.
Reissues	3—No.	15,583 to No.	15,585, inclusive.
Designs	38—No.	62,231 to No.	62,268, inclusive.
Patents	774—No.	1,452,486 to No.	1,453,259, inclusive.
Total	1174		

ADVERSE DECISIONS IN INTERFERENCE.

Design Pat. 58,997, R. E. Cartlidge, Tire tread, has been involved in an interference and a decision rendered March 17, 1923, that said patentee was not the first inventor of the subject matter covered by the claim of said patent, and no appeal having been taken such decision has become final.

Pat. 1,214,604, W. A. Smith, Drill-sharpening apparatus, has been involved in an interference and a decision rendered March 14, 1923, that said patentee was not the first inventor of the subject matter covered by claim 10 of said patent, and no appeal having been taken such decision has become final.

Pat. 1,338,956, T. A. Peebles, Regulating combustion, has been involved in an interference and a decision rendered March 16, 1923, that said patentee was not the first inventor of the subject matter covered by claims 16 and 17 of said patent, and no appeal having been taken such decision has become final.

Pat. 1,366,853, C. Wainwright, Automatic relief means for compressor regulators, has been involved in an interference and a decision rendered March 15, 1923, that said patentee was not the first inventor of the subject matter covered by claim 1 of said patent, and no appeal having been taken such decision has become final.

Interference Notices.

U. S. Patent Office, *Washington, Apr. 11, 1923.*

Austin Poor & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ireland Bros., Inc., of 102 Franklin Street, New York, N. Y., for registration of a trade-mark and trade-mark registered June 26, 1906, No. 54,319, to Austin, Poor & Co., of 72 Leonard Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Austin, Poor & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Austin Poor & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

U. S. Patent Office, *Washington, Apr. 3, 1923.*

Rex Fluid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Rex Laboratories, of 2453 North Halsted Street, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 4, 1906, No. 58,088, to the Rex Fluid Company, Des Moines, Iowa, and a notice of such declaration sent by registered mail to said Rex Fluid Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rex Fluid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Notice Regarding Payment of Fees.

All fees must be paid in advance.

Payment of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be *immediately negotiable* in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Condition of Applications Under Examination at Close of Business April 13, 1923.

(Total number of applications awaiting action, exclusive Trade-Mark Division, 73,998; Trade-Mark Division, 4,062; Oldest new case, Apr. 21, 1922; oldest amended, Apr. 22, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Pants, and Flowers.	July 22	June 30	1,125
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	May 29	June 2	1,648
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 15	May 19	1,734
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 26	*Jan. 18	1,401
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 6	June 29	1,340
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Aug. 7	Nov. 23	1,564
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	June 21	Sept. 20	2,466
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Sept. 20	Dec. 20	1,565
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 22	*Feb. 21	881
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 6	July 25	1,431
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Sept. 15	Sept. 23	1,040
322	12. PIERCE, P. P., Machine Elements	Sept. 15	Oct. 17	1,530
329	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 22	*Jan. 4	1,357
323	14. BRUMBAUGH, M. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 3	*Mar. 17	1,174
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 19	Aug. 3	2,028
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	May 4	May 3	2,529
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufacture; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	May 12	Oct. 21	1,469
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	May 31	May 2	2,048
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 14	Nov. 6	816
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 2	Oct. 12	1,923
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 9	Nov. 3	1,026
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 27	Oct. 5	650
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	Apr. 22	882
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 8	July 18	1,586
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 15	*Jan. 5	420
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	June 7	July 25	869
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 24	June 6	2,205
225	28. BENSON, A. R., Internal-Combustion Engines	June 22	Aug. 28	1,634
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 1	Dec. 18	710
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	July 31	Dec. 15	1,775
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 7	June 12	1,715
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	June 19	Oct. 5	1,290
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	May 1	May 1	1,665
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Sept. 11	Nov. 15	758
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Nov. 23	*Feb. 13	1,050
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Sept. 25	Sept. 6	1,895
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 16	June 22	1,798
378	38. IDE, O. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	May 8	May 17	1,907
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 24	June 6	1,537
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	June 15	Sept 18	2,182
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 23	July 22	958
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 8	May 27	1,763
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 14	July 1	1,324
283	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	June 24	Nov. 17	1,331
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 5	Sept 9	1,522
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	June 10	June 24	1,491
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	June 29	Sept. 16	1,228
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 28	May 9	2,420
383	49. EDINBURG, F. F., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	May 22	June 29	783
102	DESIGNS: C. O. MARKHAM (Acting)	July 3	Nov. 11	2,555
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. { Trade-Marks	Nov. 21	*Mar. 27	4,038
	{ Labels and Prints	*Apr. 7	*Apr. 9	24

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE CRANMER.

No. 1,516. Decided January 2, 1923.

1. INVENTION—COMBINATION—AGGREGATION.

Where the applicant has not produced new results or old results in a new and materially better way, but has done nothing more than aggregate what others had accomplished before him, except, perhaps, in particulars too refined to support a patent, he has not invented a patentable combination.

2. APPEAL TO COURT—PRESENTATION OF SUBSTITUTE CLAIM.

Where an appellant presents a substitute claim in his brief on appeal to the court, which claim was never considered by the Patent Office, it is not properly before the court.

Mr. W. S. Cranmer pro se.

Mr. T. A. Hostetler for the Commissioner.

Before SMYTH, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

SMYTH, *C. J.:*

Cranmer's application for a patent on a device which consists of a pneumatic tire casing of the standard beaded type, having incorporated within its tread portion a transversely-arched rigid reenforcing member which is embedded therein and covered with a layer of fabric to protect the inner air tube of the tire, was rejected by the Commissioner of Patents, and he appeals. Of the three appealed claims we set out claim 1.

In a pneumatic vehicle tire curved in transverse section, having an elastic inflatable inner air tube and an outer tire casing, a rigid annular band, conforming approximately in transverse section to the curvature of the tire and having blunt rounded edges; countersunk into the inner side of the tread portion of the said tire casing.

The application was rejected on a patent to Lenihan December 20, 1898, on one to Karlstrom et al. July 6, 1909, and on one to Heina August 4, 1914. The Assistant Commissioner in his opinion analyzed these references, and compared them with the claims of the application. He found that every element covered by the application was anticipated by the references when considered as a whole. In the course of his reasoning he called attention to the specification of the applicant, wherein it said that the purpose of the invention was to prevent punctures, to increase the elasticity of the tire, and to strengthen and stiffen its outer rim so that it will stand up and run smoothly under less air pressure than is now required in the ordinary rubber automobile tire. He also noted that the application provided for an outer casing for an automobile tire associated with a metallic band resting in a cavity on the inner side of a shoe, covered with a layer of fabric within which was inserted the usual air inflated inner tube. He said that Karlstrom, having in mind to give resiliency, durability and strength to a punctureproof tire, produced one in which a metallic strip was embedded in the outer shoe; that the chief distinction between Karlstrom and applicant was that the latter's metallic strip was separated from his inner tube merely by a thick layer of canvas tube, whereas in Karlstrom's not merely the thick layer of canvas but also some of the rubber 3 of the shoe was between this metallic strip and the inner tube. Heina, he pointed out, showed a metallic strip placed at the inner side of a tire and covered by a coating of fabric 17 in the same way that applicant applied his fabric 2 to hold the metallic strip in place. He showed no inner tube within the strip, but, in the opinion of the Commissioner, it would not require invention to transfer the metallic strip of Karlstrom to the position indicated by Heina, in which event the identical structure shown by applicant would be produced. Applicant provides rounded and blunt edges for his metallic strip, but Heina, said the Commissioner, indicated in his drawing that the edges of his metallic strip are blunt, and Lenihan, the other reference, described a metallic plate having curved or rounded edges in a pneumatic tire for bicycles. If the making of such an edge be not obvious, it is suggested by Lenihan.

To the contention of applicant that the positioning of his metallic band between the outer tire casing and the inner tube would require invention, the Commissioner answered that the references negative this proposition, and added that, while applicant's band does not extend as far from side to side as does Heina's, yet it finds a prototype in Karlstrom's, and that while his band is rigid enough to stiffen the tread, Karlstrom seemed to have the same purpose in mind.

Continuing the Commissioner said that claims 2 and 3 are substantially identical; that they add to the elements of claim 1 a flexible protecting fabric extending between the inner annular band and inner air tube; that Heina, at 17, shows such a protecting fabric holding his metal strip in place, and that the obvious use of some such covering seems too slight to support a patent. He refused to allow additional claims which were suggested by the applicant, on the ground that they were based on too small a refinement to be regarded as patentable.

We agree with the Commissioner's views, and think it unnecessary to set out in detail the process by which we arrive at our conclusion.

[1] The applicant appeals with much earnestness to the principle that a combination of old elements which produces a new result, or affects an old result in a new and materially better way, is patentable. This is undoubtedly so, but we do not think it has any application here, because the applicant has not produced new results or old results in a new and materially better way. He has done nothing more than aggregate what others had accomplished before him, except, perhaps, in particulars too refined to support a patent.

(*In re Merritt*, 36 App. D. C., 122; 162 O. G., 540; *Huebner-Toledo Breweries Co.* v. *Mathews Gravity Carrier Co.*, 233 Fed., 435; 262 O. G., 313; *Edwards* v. *Dayton Mfg. Co.*, 257 Fed., 980; 266 O. G., 597.)

[2] Appellant presents a substitute claim in his brief. This claim was never considered by the Patent Office tribunals and therefore is not properly before us. We sit as a court of appeals, not as a tribunal of first instance. Even if we had power to pass upon the claim, we would have to hold it is not patentable for the same reasons as those upon which we reject the claims properly here.

The action of the Commissioner is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

THE TOURAINE COMPANY *v.* F. B. WASHBURN & CO.

No. 1,535. *Decided February 5, 1923.*

1. TRADE-MARKS—"TOURAINE"—OPPOSITION—USE OF A MARK TO INDICATE CHARACTER OF GOODS.

Where the opposers put out over two hundred pieces or mixtures of candies, but applied the unregistered word "Touraine" to only one, and on this one it was accompanied by a registered trade-mark which, according to the testimony, was used on all their goods; where for years they made no objection to the use of the word, but sold goods procured from the applicant with the mark on the packages and agreed not to apply it to any of their own goods except the one kind already mentioned; where they did not use the word alone, but in connection with the words "Chocolate Mixture"; and where it appears that they did not think of claiming the word as anything more than a grade mark until prompted to do so by a notice that the applicant had asked for its registration, *Held* that the word was used by the opposers to indicate the character of the goods, not the origin of it.

2. SAME—SAME—SAME—DAMAGE.

The mere use of a word as a trade-mark does not prove likelihood of damage to one who uses the mark in another capacity—for instance, as a grade indicator.

3. SAME—SAME—SAME—SAME.

All that the statute requires of an opposer is to prove facts which, if true, would tend to show that he would probably be damaged by the registration.

4. SAME—SAME—SAME—SAME.

While it is permissible for one who has used a word as a trade name to make opposition to its registration as a trade-mark, it does not follow that the mere fact that he has used it as a trade name establishes that he would be damaged by the registration of the same as a trade-mark. He may continue to use the word as a trade name notwithstanding its registration to another as a trade-mark.

5. SAME—SAME—SAME—SAME.

The opposer having failed to prove that it would probably be damaged by the registration of the mark, the decision of the Commissioner refusing to register the word to the applicant was reversed.

Mr. Ellis Spear, jr., for The Touraine Co.

Mr. D. P. Wolhaupter for F. B. Washburn & Co.

Before SMYTH, Chief Justice, ROBB, Associate Justice, and Judge SMITH, of the United States Court of Customs Appeals, sitting in the place of Justice Van Orsdel.

SMYTH, *C. J.*:

The Commissioner of Patents, on the opposition of F. B. Washburn & Co., refused to register to the Touraine Company the word "Touraine" as a trade-mark for candy and confections, including chocolates, etc., and the latter company brings the proceeding here for our review.

Both parties are engaged in the manufacture of candy, one in Brockton and the other in Boston, Mass., which they sell to wholesalers and jobbers. A grocery company adopted the mark in 1906, and the next year conveyed all right to it to the Touraine Company. From the time of the conveyance the latter company has used it as a trade-mark for all its products. Opposer is entitled to 1897 as the date on which it commenced the use of the mark. It was, therefore, undoubtedly the first to adopt and use it.

But was its use a trade-mark use, or only a piece or grade mark use to indicate the ingredients of the piece to which it was attached? Opposer put out over 200 different pieces or mixtures but the word "Touraine" was applied to only one, and in the following manner:



Whenever a wholesaler desired a piece of a certain kind he ordered it by its appropriate name. Opposer had two registered trade-marks, one of which, "Waleco," and a seal are displayed on the above specimen. If the word "Touraine" was used as a technical trade-mark, then there were two such marks on the package. Opposer's superintendent for twenty-five years said the word "Touraine" referred distinctly to the grade or quality of the chocolate. Another employee who had been in opposer's service for seven years and in charge of the chocolate room for about four years testified to the same effect. An employee of twenty-two years' service declared that the Waleco trade-mark was used *on all the opposer's goods* so far as she knew. The opposer at times sold goods procured from the applicant, with the mark "Touraine" on the packages. For fourteen years, with full knowledge of the use of the mark by applicant, the opposer made no objection to its use. Many years ago the applicant requested the opposer to refrain from the use of the mark. It refused to do so for the stated reason that it had been using the mark for a long time, but agreed not to apply it to any kind other than the chocolate piece. This was testified to by a witness who worked for twenty-five years for the opposer and had risen from the position of office boy to the rank of general manager. True, he had been discharged by the opposer, but this does not weaken his testimony, because he describes exactly what was done, according to the other witnesses, by the opposer so far as the use of the mark is concerned. It appears no one connected with the opposer thought of claiming the word "Touraine" as anything more than a grade mark until one Miner, who joined the company in 1916, "originated the opposition," to use his own words. He was prompted to do so by a notice in a bulletin that the applicant had asked for the registration of the word. This was about four months before he testified. The label copied above discloses that the word "Touraine" is not used alone but in connection with the two words "Chocolate Mixture." Opposer spent no money in advertising its candy under the name of "Touraine," while applicant spent over three quarters of a million in advertising its products under that name.

[1, 2] Considering all these facts we are satisfied that the opposer never used, or thought of using, the word as a trade-mark until Miner appeared upon the field, and that was many years after the applicant had adopted and applied it to its entire output. It was used by the opposer to indicate the character of the chocolate, not the origin of it. The distinction between a technical trade-mark and a device to denote style or quality is pointed out in *Lawrence Mfg. Co.* v. *Tennessee Mfg. Co.* (138 U. S., 537, 546; 55 O. G., 1528) and *Columbia Mill Co.* v. *Alcorn* (150 U. S., 460). The mere use of a word as a trade-mark does not prove likelihood of damage to one who uses the mark in another capacity, for instance, as a grade indicator. Since opposer has no other proof of probable damage its opposition should have been dismissed.

[3, 4] The Patent Office in upholding the opposition appeared to rely on our decision in *Atlas Underwear Co.* v. *B. V. D. Co.* (48 App. D. C., 425; 261 O. G., 801), but we do not think it supports the conclusion reached. Of course a trade-mark use of a mark is not necessary in a proceeding of this kind. If the opposer can show in any way that he would probably be damaged by its registration to the applicant he may do so. The trade-mark statute, section 6, 33 Stat., 726, is our chart. There is nothing in it which says that a person must own a trade-mark, registered or not, before he can oppose the registration of the mark to another person. All that the statute requires of him, according to our interpretation, is to prove facts which if true would tend to show that he would probably be damaged by the registration. (*Skene* v. *Marinello Co.*, 270 Fed., 701; *McIlhenny Co.* v. *Trappey*, 277 Fed., 615; 297 O. G., 800.) Opposer relies on *Nairn Linoleum Co.* v. *Ringwalt Linoleum Works* (46 App. D. C., 64; 237 O. G., 919), but there is nothing in it which conflicts with the views we have here expressed. It declares that it is permissible for one who has used a word as a trade name to make opposition to its registration as a trade-mark. Undoubtedly this is correct. But it does not follow that the mere fact that he has used it as a trade name establishes that he would be damaged by the registration of the same name as a trade-mark. He may continue to use the word as a trade name notwithstanding its registration to another as a trade-mark.

[5] The opposer in this case having failed to prove that it would probably be damaged by the registration of the mark, we must reverse the decision of the Commissioner, and it is so ordered.

Reversed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

718,340. (See 892,897.)

843,864, L. H. Brinkman, Refrigerating apparatus, suit filed April 4, 1921, U. S. D. C., W. D. N. Y., Doc. 328–B, *The Whitlock Coil Pipe Co.* v. *Fedders Mfg. Co., Inc.* Discontinued.

858,188, A. G. Laurent, Hand fire-extinguishing apparatus, suit filed Jan. 30, 1923, U. S. D. C., D. Del., Doc. E 515, *Foamite-Childs Corp.* v. *Pyrene Mfg. Co.*

876,933, J. L. Borsch, jr., Bifocal lens, suits filed Sept. 16, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/300, *Kryptok Co.* v. *P. Hermant and Others* (*Gitson Bifocal Co.*). Same, Doc. E 24/301, *Kryptok Co.* v. *P. Hermant* (*Imperial Optical Co.*)

892,897, Schirmacher & Landers, Dyestuffs; 916,029, Schmidt & Bryk, same; 965,170, K. Elbel, same; 968,697, Schmidt, Bryk and Voss, same; 999,439, Elbel & Wray, same; 718,340, O. J. Graul, Process of making cyan-methyl derivatives of aromatic amido, suit filed June 23, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/120, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co., Inc., and Treas. of U. S.*

916,029. (See 892,897.)

965,170. (See 892,897.)

968,697. (See 892,897.)

999,439. (See 892,897.)

1,004,274, T. H. Kane, Expanding machines, suit filed Jan. 24, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 820, *Truscon Steel Co.* v. *The General Fireproofing Co.*

1,046,615, T. F. Litaker, Drill; 1,203,112, Harris & Molidor, same, suit filed Jan. 9, 1923, U. S. D. C., S. D. Calif., Doc. E 56–G, *Rotary Disc Bit Co.* v. *Stoody Welding Co. and Others.*

1,055,681, A. Steiner, Appliance for producing musical sounds, suit filed Nov. 20, 1922, U. S. D. C., S. D. N. Y., Doc. E 25/111, *Kalman & Gerling* v. *E. J. Horsman and Others.*

1,090,651. (See 1,152,222.)

1,109,670. G. D. Feidt, Method of preparing steel for painting, suit filed Jan. 25, 1923, U. S. D. C., D. Del., Doc. E 514, *American Chemical Paint Co.* v. *C. R. Wilson Body Co.*

1,139,685, F. E. Judd, Controlling mechanism for throttle valves; 1,284,523, Williams, Williams & Williams, Accelerator attachments, suit filed Jan. 29, 1923, U. S. D. C., N. D. Ohio (W. D.), Doc. 361, *Williams Bros. Aircraft Corp.* v. *The Michon Accelerator Co., Inc., and Others.*

1,140,136, B. E. Eldred, Low-expansion wire, suit filed Nov. 8, 1922, U. S. D. C., E. D. N. Y., *General Electric Co.* v. *B. E. Eldred and Others.*

1,152,222, R. S. Riley, Furnaces; 1,090,651, same, Positive cleaning and self-dumping stokers, suit filed Jan. 9 1922, U. S. C. C. of Appeals, 4th Cir. (Richmond, Va.), Doc. 1951, *Frederick Iron & Steel Co. and Others* v. *The Sanford Riley Stoker Co.* Decree for defendants Feb. 8, 1923.

1,203,112. (See 1,046,615.)

1,284,523. (See 1,139,685.)

1,327,877, C. H. Parmelee, Radiator shield, suit filed Sept. 28, 1922, U. S. D. C., D. Wash., Doc. E 307, *Pacific Radiator Shield Co.* v. *Washington Sheet Metal Works.* Perpetual injunction granted Feb. 8, 1923.

1,341,076. C. H. Sampson, Check-printing machines, suit filed Jan. 22. 1923, U. S. D. C., W. D. N. Y., Doc. E 435–C, *Todd Protectograph Co.* v. *Hall-Welter Co., Inc.*

1,372,354, C. R. Keeran, Pencil; 1,400,362, Keeran & Kaufman, same, suit filed July 13. 1922. U. S. D. C., N. D. Ill., Doc. 2860, *C. R. Keeran* v. *Autopoint Pencil Co. et al.*

1,400,362 (See 1,372,354.)

1,421,237, C. J. Hug, Subgrading machine, suit filed Feb. 8, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 835, *C. J. Hug* v. *Great Lakes Engineering Co.*

1,429,902, F. V. Cooke, Vehicle spring construction, suit filed Jan. 27, 1923, U. S. D. C., E. D. Mich. (S. D.), Doc. 528, *Cooke & Goddard* v. *J. J. Huebener and Others.*

1,432,872, 1,432,873, O. Kroehle, Signal lens; Des. 58,916, same. For front of a signal lens, suit filed Feb. 14, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 837, *The Protex Signal Co.* v. *I. F. Feniger et al.*

1,432,873. (See 1,432,872.)

Re. 14,143, F. W. Meyer, Trunk-securing means, Feb. 4. 1920, U. S. D. C., S. D. N. Y., Doc. E 17/104, *Belbar Trunk & Bag Co.* v. *American Trunk & Bag Corp.* Perpetual injunction granted Feb. 27, 1922.

Des. 58,916. (See 1,432,872.)

T. M. 14,482. (See T. M. 99,142.)

T. M. 87,163. (See T. M. 99,142.)

T. M. 99,142, Channel Chemical Co., For furniture polish; T. M. 87,163, same, For mops; T. M. 14,482, G. H. Allen, For furniture polish, suit filed Jan. 24, 1923, U. S. D. C., N. D. Ill., Doc. 3295, *Channel Chemical Co.* v. *F. W. Woolworth and Others.*

T. M. 109,864, T. M. 159,878, General Baking Co., Bread; (Ser. No. 145,893) T. M. 159,357, same, Cake, pastry, biscuits, cookies, crackers, and fried bakery products, suit filed Dec. 12, 1922, U. S. D. C., W. D. N. Y., Doc. E 429–C, *General Baking Co.* v. *Ward & Ward, Inc.*

T. M. 159,357. (See T. M. 109,864.)

T. M. 159,878. (See T. M. 109,864.)

ADJUDICATED PATENTS.

(U. S. C. C. A. Ill.) Robinson patent, 809,582, claims 1–4, and 942,932, claim 1, for potato-peeling mechanism, *Held* valid and infringed. *Maxim Mfg. Co.* v. *Imperial Mach. Co.*, 286 Fed. Rep., 79.

(U. S. D. C. N. Y.) Just and Hanaman patent, 1,018,502, for electric-light filament, and 1,180,159, for incandescent lamp, *Held* valid. *General Electric Co.* v. *P. R. Mallory & Co.*, 286 Fed. Rep., 175.

(U. S. C. C. A. Ohio.) Scherer patent, 1,026,607, for connection for hot-air pipe, void for lack of invention. *Excelsior Steel Furnace Co.* v. *Williamson Heater Co.*, 286 Fed. Rep., 131.

(U. S. C. C. A. Ill.) Davis patent, 1,205,124, for automobile lock, claims 3, 4, and 5, *Held* invalid. *Perry Auto Lock Co.* v. *Security Lock Co.*, 286 Fed. Rep., 101.

(U. S. D. C. N. Y.) Warren patent, 1,344,570, for wall paper, void for lack of invention. *Harmon Paper Co.* v. *Prager*, 286 Fed. Rep., 267.

(U. S. D. C. N. Y.) Warren patent, 54,152, for design for wall paper, invalid. *Harmon Paper Co.* v. *Prager*, 286 Fed. Rep. 267.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 24, 1923.

[VOL. 309. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 118,089. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MID-CONTINENT TIRE MANUFACTURING COMPANY, Wichita, Kans. Filed May 2, 1919.



No claim made to the words "Wichita, Kansas," the representation of the tires and the words "Super Service" and "Super Service Cord Tyre" apart from the mark shown.

Particular description of goods.—Rubber Tires and Inner Tubes.

Claims use since on or about Apr. 1, 1919.

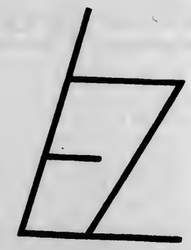
Ser. No. 131,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YAMEI KIN, New York, N. Y. Filed Apr. 15, 1920.

SOYMETES

Particular description of goods.—Curd Meat from the Soyer.

Claims use since Mar. 25, 1920.

Ser. No. 136,377. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDWIN Z. LESH, Dayton, Ohio. Filed Aug. 23, 1920.



Trade-mark is a monogram of the letters "E," "Z," and "L."

Particular description of goods.—Drafting Instruments Having in Combination the Essential Elements of the 45-Degree Triangle and the Protractor.

Claims use since Mar. 25, 1919.

Ser. No. 136,604. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE ROBINSON-RODERS CO., INC., Newark, N. J. Filed Aug. 28, 1920.

Ilanasilk

Particular description of goods.—Mattresses, Pillows, Bolsters, and Cushions.

Claims use since Jan. 5, 1910.

Ser. No. 137,513. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BERKELEY LIGHT CORPORATION, San Francisco, Calif. Filed Sept. 23, 1920.

Woodlite

Particular description of goods—Electric Headlights and Electric Flood Lights.
Claims use since Sept. 15, 1920.

Ser. No. 138,168. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUSTUS PAUL HEINZE, doing business as Motor Kool Co., Detroit, Mich. Filed Oct. 11, 1920.

MOTOR KOOL

Particular description of goods.—Chemical Preparation to Clean and Remove Scale and Foreign Accumulations from the Interior of Automobile Radiators and Cooling Systems.
Claims use since Sept. 24, 1920.

Ser. No. 138,722. (CLASS 15. OILS AND GREASES.) THE OIL AND CHEMICAL CORPORATION, Chicago, Ill. Filed Oct. 23, 1920.

WAKE UP

Trade-mark consists of the words "Wake Up."
Particular description of goods.—Lubricating Oils and Greases, Automobile Fuel Oils, and Cutting Oils for Treating Metals of Different Kinds.
Claims use since July 15, 1919.

Ser. No. 139,118. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FORSTNER CHAIN CORPORATION, Irvington, N. J. Filed Nov. 3, 1920.



Particular description of goods.—Chains for Personal Adornment, Which Are Made of or Plated with Precious Metal.
Claims use since Sept. 1, 1920.

Ser. No. 140,072. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Filed Nov. 23, 1920.

Silvertone

Particular description of goods.—Phonograph Records.
Claims use since October, 1915.

Ser. No. 145,583. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) POLYPHONWERKE AKTIENGESELLSCHAFT, Berlin, Germany. Filed Apr. 1, 1921.

Symphonie

Particular description of goods.—Phonographs, Coin-Operated Talking and Musical Machines, and Needles for Phonographs and the Like.
Claims use since 1914.

Ser. No. 146,950. (CLASS 11. INKS AND INKING MATERIALS.) BLACKBIRD FACTORIES, INC., Los Angeles, Calif. Filed Apr. 29, 1921.



Particular description of goods.—Typewriter Ribbons.
Claims use since April, 1921.

Ser. No. 147,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAKAMINE LABORATORY, INC., Clifton, N. J. Filed May 16, 1921.

DIAZYME

Particular description of goods.—Enzyme Substances of Vegetable Fungus Origin Possessing Diastatic, Proteolytic and Other Properties, Primarily for Use in Degumming Silks and Fibrous Materials, as Well as for Desizing and Destarching.
Claims use since February, 1921.

Ser. No. 149,592. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JAMES H. LAIDLAW, doing business as Marvel-o Manufacturing Co., San Diego, Calif. Filed June 24, 1921.



Particular description of goods.—Liquid Polishing Compound for Cleaning and Polishing Automobile Bodies.
Claims use since June 17, 1921.

Ser. No. 149,601. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SUPERSOAP PRODUCTS CO., INC., New York, N. Y. Filed June 24, 1921.

Supersoap

Particular description of goods.—Soaps.
Claims use since Mar. 28, 1921.

Ser. No. 151,151. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ECONOMETER MANUFACTURING COMPANY, INC., Orange, N. J. Filed July 30, 1921.

PERIOD

Particular description of goods.—Ignition-Timing Devices for Internal-Combustion Engines.
Claims use since June 1, 1921.

Ser. No. 151,299. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GEORGE SPENCER, MOULTON & CO. LTD., Westminster, London, England. Filed Aug. 2, 1921.

SPENWOOD

Particular description of goods.—India-Rubber Tires and Inner Tubes.
Claims use since Feb. 18, 1919.

Ser. No. 152,834. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DAVIS CHEMICAL COMPANY, Toledo, Ohio. Filed Sept. 12, 1921.



The word "Benzolene" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Dry Cleaner.
Claims use since July 31, 1921.

Ser. No. 154,073. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Filed Oct. 14, 1921.

ARCOLA

Particular description of goods.—Combined Boiler and Heater Other Than Electrically Operated.
Claims use since about Mar. 1, 1918.

Ser. No. 154,513. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HUMBER LIMITED, Coventry, England. Filed Oct. 24, 1921.



The applicant disclaims the exclusive right to the words "Coventry, England" as set forth in the trade-mark sought to be registered.
Particular description of goods.—Bicycles, Tricycles, Motor Cycles, and Motor Trucks and Passenger Automobiles.
Claims use since 1886.

Ser. No. 155,689. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL DRY MILK CO., Minneapolis, Minn. Filed Nov. 21, 1921.

CREAM-ON

Particular description of goods.—Powdered Milk.
Claims use since Oct. 12, 1921.

Ser. No. 155,690. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL DRY MILK CO., Minneapolis, Minn. Filed Nov. 21, 1921.



The picture of the child is a creation of the artist's fancy. No claim is made for the representation of the milk bottle apart from the rest of the mark.

Particular description of goods.—Powdered Milk.

Claims use since Oct. 12, 1921.

Ser. No. 155,691. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL DRY MILK CO., Minneapolis, Minn. Filed Nov. 21, 1921.

CREAM-ON



The picture of the child is a creation of the artist's fancy. No claim is made for the representation of the milk bottle apart from the other features of the mark.

Particular description of goods.—Powdered Milk.

Claims use since Oct. 12, 1921.

Ser. No. 156,125. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALKER WEBBING CO., Providence, R. I. Filed Nov. 30, 1921.

DOMINO



Particular description of goods.—Shoe Lacings, Underwear Lacings, Blouse Lacings, Galloons, Braids, Webbings, Dress Beltings, and Tapes, All of Which are Made of Linen, Cotton, Silk, or Worsted, and Hairpins not Made of Precious Metals.

Claims use since January, 1906.

Ser. No. 156,789. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUTMACHER BRAIDING COMPANY, Paterson, N. J. Filed Dec. 16, 1921.

Natural Tip

No claim is made to the word "Tip" nor the representation of the goods apart from the mark shown on the drawing.

Particular description of goods.—Shoe and Corset Laces.

Claims use since Sept. 1, 1921.

Ser. No. 157,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER J. HIRSCH CO., Chicago, Ill. Filed Jan. 5, 1922.

RAREBIT WAY!

Particular description of goods.—Peanut Butter, Queen Olives, Mustard, Stuffed Olives, Chow Relish.

Claims use since July 1, 1921.

Ser. No. 157,581. (CLASS 39. CLOTHING.) MANNING PHILLIPS, doing business as I. & M. Phillips, New York, N. Y. Filed Jan. 6, 1922.

HiKer-NicKer

No claim is made to the word "Nicker" apart from the mark shown.

Particular description of goods.—Women's Outer Clothing Comprising Shirts, Trousers, and Jackets.

Claims since Nov. 11, 1921.

Ser. No. 157,744. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WOLF CREEK SOAP WORKS COMPANY, near Dayton, Montgomery County, Ohio. Filed Jan. 10, 1922.

WOLF CREEK

Trade-mark "Wolf Creek."

Particular description of goods.—Soaps Both in the Form of Cakes and in the Form of Chips.

Claims use since March, 1907.

Ser. No. 158,115. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Jan. 9, 1922.



Trade-mark consists of a narrow band of variegated oriental colors around the top of the stocking and the words "Persian Top," no claim being made for the representation of a stocking.

Particular description of goods.—Women's Hosiery.

Claims use since March, 1915.

Ser. No. 158,121. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL ASSOCIATION OF MACHINISTS, doing business as Ad-Pep Printing and Publishing Co., Washington, D. C. Filed Jan. 19, 1922.

AD-PEP

Particular description of goods.—Cartoons, Advertising Cartoons, and Illustrations.

Claims use since Aug. 15, 1921.

Ser. No. 158,676. (CLASS 38. PRINTS AND PUBLICATIONS.) FLETCHER AMERICAN COMPANY, Indianapolis, Ind. Filed Jan. 31, 1922.

The COUPON

Particular description of goods.—Monthly Publication.

Claims use since Jan. 1, 1922.

Ser. No. 158,722. (CLASS 39. CLOTHING.) JOHN MEIER SHOE COMPANY, St. Louis, Mo. Filed Feb. 1, 1922.

THE Doctor

Particular description of goods.—Leather Shoes.

Claims use since Apr. 1, 1921.

Ser. No. 158,787. (CLASS 39. CLOTHING.) THE MENIHAN COMPANY, Rochester, N. Y. Filed Feb. 2, 1922.



The words "Arch-Aid," "Warranted Best Made," "Shoe," and "Rochester, N. Y." are disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Clothing—Namely, Leather Shoes.

Claims use since 1912.

Ser. No. 158,788. (CLASS 39. CLOTHING.) THE MENIHAN COMPANY, Rochester, N. Y. Filed Feb. 2, 1922.



The words "Arch-Aid," "Corrective Shoe," and "Rochester, N. Y. U. S. A." are disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Clothing—Namely, Leather Shoes.

Claims use since 1912.

Ser. No. 159,882. (CLASS 2. RECEPTACLES.) THE RIKE FOLDING BOX COMPANY, Dayton, Ohio. Filed Feb. 27, 1922.



No claim is made to the words "Keep," "Klose," and "Kleen" apart from the mark as shown in the drawing.

Particular description of goods.—Paper Garment Bags.

Claims use since Nov. 15, 1921.

Ser. No. 160,378. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAX A. ZOLLA, Chicago, Ill. Filed Mar. 8, 1922.

Sorority

Particular description of goods.—Artificial Pearls.
Claims use since on or about Feb. 4, 1922.

Ser. No. 160,480. (CLASS 12. CONSTRUCTION MATERIALS.) BULL DOG FLOOR CLIP COMPANY, Winterset, Iowa. Filed Mar. 10, 1922.

BULL DOG

Particular description of goods.—Floor Clips for Fastening Wooden Floors or the Like to a Concrete Construction.
Claims use since Feb. 8, 1921.

Ser. No. 160,685. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN COPPER PRODUCTS CORPORATION, Elizabeth Port, N. J. Filed Mar. 15, 1922.

AMERICAN COPPER PRODUCTS CORPORATION

Particular description of goods.—Bars and Insulated Wire, Cable, and Cordage for Electrical Purposes.
Claims use since Jan. 17, 1922.

Ser. No. 160,747. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCE.) WILLIAM E. BARNARD, doing business as Web Sterilizer Co., New York, N. Y. Filed Mar. 16, 1922.

WEB

Trade-mark consists of the word "Web."
Particular description of goods.—Toothbrush Sterilizers.
Claims use since Mar. 1, 1922.

Ser. No. 160,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORT DEARBORN CANDY COMPANY, Chicago, Ill. Filed Mar. 17, 1922.

MILK NUT
Dandy Dan!
CHERRY CENTER
Delightfully Different

No claim is made for any of the words included in the design as shown in the drawing except the words comprising the name "Dandy Dan."
Particular description of goods.—Candy Bars.
Claims use since Nov. 1, 1921.

Ser. No. 160,876. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAWSON-EDWARDS COMPANY, Rocky Ford, Colo. Filed Mar. 18, 1922.

Edwards Perfecto
Cantaloupes

No claim being made to the words "Edwards" and "Cantaloupes" apart from the connection illustrated in the drawing.
Particular description of goods.—Cantaloupes.
Claims use since about August, 1915.

Ser. No. 161,302. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND METAL PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 27, 1922.



No claim is made to the drum apart from the mark shown in the drawing. The trade-mark consists of alternating relatively dark and light gray bands extending about each drum, the adjacent bands blending into each other, and the effect is produced preferably by coating the drums with a dark gray enamel, spraying on white or a lighter shade of gray enamel to produce the contrasting bands, and thereafter subjecting the drums to heat for the purpose of burning on the enamel.
Particular description of goods.—Burner Drums.
Claims use since about January, 1916.

Ser. No. 162,091. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNION RADIO CORPORATION, New York, N. Y. Filed Apr. 7, 1922.

UNION-RADIO-CORPORATION
200-MT PLEASANT-AVENUE,-NEWARK-NJ
NEW-YORK-OFFICE — 116-WEST-32ND-STREET

We disclaim the representation of wireless apparatus, also the words "200 Mt. Pleasant Avenue, Newark, N. J., New York Office 116 West 32nd Street."
Particular description of goods.—Radio Telephone and Telegraphic Instruments and Parts Thereof.
Claims use since Mar. 24, 1922.

Ser. No. 162,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. J. TYLER, Bethel, Me. Filed Apr. 14, 1922.

WHITE MOUNTAIN

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Nov. 1, 1921.

Ser. No. 162,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK C. WAHLENMAIER, doing business as Eye-Ryne Laboratories, Kansas City, Kans. Filed Apr. 21, 1922.

EYE-RYNE

Particular description of goods.—Eye Lotion.
Claims use since Apr. 3, 1922.

Ser. No. 162,751. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS LEVUSSOVE, New York, N. Y. Filed Apr. 22, 1922.

CORSAIR

Particular description of goods.—Human and Animal Hair.
Claims use since Apr. 1, 1922.

Ser. No. 162,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Apr. 24, 1922.



Applicant disclaims any registration rights in the representation of the goods apart from the mark shown, but by such disclaimer waives none of its common-law rights in the mark or any part thereof.
Particular description of goods.—Bacon.
Claims use since about Nov. 1, 1917.

Ser. No. 162,909. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE UNITED STATES BUNG MFG. CO., New York and Brooklyn, N. Y., and Cincinnati, Ohio. Filed Apr. 25, 1922. Under ten-year proviso.

U.S.BUNG M'F'G.CO. CINCINNATI O.

Particular description of goods.—Bungs.
Claims use since 1885.

Ser. No. 162,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON MARKMAN, New York, N. Y. Filed Apr. 26, 1922.

LAVOLA

Particular description of goods.—Clay and Paste for the Complexion.
Claims use since Jan. 15, 1922.

Ser. No. 163,711. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAVOY IMPORTING CO. INC., New York, N. Y. Filed May 11, 1922.



No claim is made to the words "Guaranty, Superior, Quality, Products" except as shown on the drawing.

Particular description of goods.—Tunny Fish, Tomatoes, Tomato Sauce and Paste, String Beans, Green Peas, Olives; Salad Oil, Being a Vegetable Oil Flavored Slightly with Olive Oil, and Sardels in Salt, All of Said Articles Being Canned.

Claims use since Apr. 5, 1922.

Ser. No. 164,129. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALBERT SETZER, Providence, R. I. Filed May 19, 1922.



Particular description of goods.—Electric Storage Batteries.

Claims use since Mar. 1, 1922.

Ser. No. 164,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEYER BROS., Dalcour, La. Filed May 23, 1922.



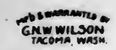
No claim is made to the words "Brand, From Meyer Bros., Dalcour, La." apart from the mark shown on the drawing.

Particular description of goods.—Fresh Vegetables—Namely, Lettuce, Cucumbers, Green Corn, and Spinach.

Claims use since March, 1907.

Ser. No. 164,684. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) G. N. W. WILSON, Tacoma, Wash. Filed May 29, 1922.





Applicant makes no claim to the wording appearing on the drawing except the name "G. N. W. Wilson."

Particular description of goods.—Razor Strops.

Claims use since May, 1921.

Ser. No. 164,846. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WARREN FOUNDRY AND MACHINE COMPANY, Phillipsburg, N. J. Filed June 2, 1922.



Particular description of goods.—Cast Iron Gas and Water Pipes and Fittings.

Claims use since Sept. 15, 1920.

Ser. No. 164,931. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JOS. H. MEYER BROS., INC., Brooklyn, N. Y. Filed June 3, 1922.

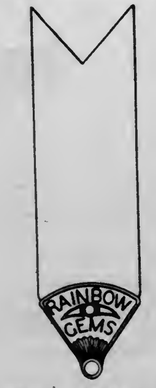
RAINBOW GEMS

No claim is made to the word "Gems" apart from the mark shown in the drawing.

Particular description of goods.—Reproductions of Precious and Semiprecious Gems and Stones.

Claims use since November, 1921.

Ser. No. 164,932. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JOS. H. MEYER BROS., INC., Brooklyn, N. Y. Filed June 3, 1922.



No claim is made to the word "Gems" or to the label apart from the mark as shown on the drawing.

Particular description of goods.—Reproduction of Precious and Semiprecious Gems and Stones.

Claims use since November, 1921.

Ser. No. 165,157. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ROCK ISLAND REGISTER COMPANY, Rock Island, Ill. Filed June 7, 1922.

Out-O-Wall

Particular description of goods.—Registers for Heating Purposes.

Claims use since Jan. 15, 1922.

Ser. No. 165,168. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TYPKE & KING, LTD., Mitcham Common, Surrey, England. Filed June 7, 1922.



The crosshatching on the letters "T" and "K" does not indicate color.

Particular description of goods.—Antimony, Cadmium Sulphides, Arsenic Sulphides, Chrome Oxides, Hypophosphites of Lime, Soda, Potash, Magnesium, Manganese, Iron, and Ammonia.

Claims use since at least 1883.

Ser. No. 165,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAILLIARD & SCHMIEDELL, San Francisco, Calif. Filed June 21, 1922.



Applicant disclaims the exclusive right to the use of the following words "Olio d'Oliva," "Superfine Virgin," "Sanremo," "Net Contents Full 1 Gallon," "Trade Mark Registered," "Fratelli Calvo," "Sanremo Oneglia," "Huile d'Olive," "Superfine Olive Oil Sanremo," and "Extra Oliven del Sanremo" and "Mailliard & Schmiedell Sole Distributors for Fratelli Calvo 205 California Street San Francisco, U. S. A." apart from the mark as shown.

Particular description of goods.—Olive Oil.

Claims use since Apr. 6, 1922.

Ser. No. 165,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAILLIARD & SCHMIEDELL, San Francisco, Calif. Filed June 21, 1922.



Applicant disclaims the exclusive right to the use of the following words "Olio d'Oliva Italiano Vergine Finissimo," "Garantito Assolutamente Purio, Sanremo-Oneglia," and "Italia," "Oleum," "Marca Registrata," and "Sole Distributors for Fratelli Calvo 205 California Street San Francisco, U. S. A." and "Net Contents Half Full Gallon" apart from the mark as shown.

Particular description of goods.—Olive Oil.

Claims use since Apr. 6, 1922.

Ser. No. 165,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORCHARD DRUG CO., Lynchburg, Va. Filed June 21, 1922.

PETRO-TERPIN

No claim is made to the word "Terpin" apart from the mark as shown.

Particular description of goods.—Emulsion Petroleum Used in Throat, Lung Trouble, Bronchitis, Bronchial Catarrh, and as a Laxative.

Claims use since 1913.

Ser. No. 165,808. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORCHARD DRUG CO., Lynchburg, Va. Filed June 21, 1922.

PETRO-CREO

Particular description of goods.—Emulsion Petroleum Used in Throat, Lung Trouble, Bronchitis, Bronchial Catarrh, and as a Laxative.

Claims use since 1913.

Ser. No. 165,855. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS R. DEAVY, doing business as Vesper Pharmacal Co., Tacony, Philadelphia, Pa. Filed June 22, 1922.

SAINT DANTRONY'S P•P

Particular description of goods.—Liquid Medicine for Indigestion, Vertigo, Acid Stomach, and Constipation.

Claims use since March, 1921.

Ser. No. 166,312. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & Co., Matawan, N. J. Filed June 30, 1922.

MUNNING

Particular description of goods.—Abrasives—viz, Emery and Artificial Abrasives, Soaps, Cleaners, and Alkali Cleaners Used to Clean Metal Surfaces Before Electroplating; and Polishing Materials—viz, Cloth Polishing Wheels and Leather Polishing Wheels.

Claims use since May 1, 1911.

Ser. No. 166,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELK MOUNTAIN ORCHARD CO., Asheville, N. C. Filed July 1, 1922.

ELK MOUNTAIN

Particular description of goods.—Fresh Fruit—Namely, Apples.

Claims use since Jan. 14, 1922.

Ser. No. 166,757. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed July 11, 1922.

WOOD SEPARATOR

The words "Wood Separator" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Storage Batteries and Parts Thereof.

Claims use since on or about June 21, 1922.

Ser. No. 166,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & Co. INC., New York, N. Y. Filed July 13, 1922.

GLORIA

Applicant disclaims the word "Gloria" apart from the mark shown in the drawing.

Particular description of goods.—Printed Shirtings and Printed Percales.

Claims use since 1912.

Ser. No. 166,823. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & Co. INC., New York, N. Y. Filed July 13, 1922.

STAR

Particular description of goods.—Printed Shirtings and Printed Percales.

Claims use since 1912.

Ser. No. 167,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS FARM BUREAU MELON GROWERS' EXCHANGE, Dallas, Tex. Filed July 20, 1922.

TEXAS SWEET HEART WATER MELON

No claim made to the word "Watermelon" nor to the pictorial representation of a watermelon apart from the mark shown by the drawing. The pictorial representation of the bust of a girl, which forms a feature of the trade-mark, is merely fanciful.

Particular description of goods.—Watermelons in Their Natural State.

Claims use since July 1, 1922.

Ser. No. 167,327. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOTTA B. RIDLEY, Louisville, Ky. Filed July 24, 1922.

EDNA MAY
PERMANENCE

Particular description of goods.—Face Powder in Paste Form.

Claims use since Mar. 27, 1922.

Ser. No. 167,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SAN FRANCISCO BREWERIES, LTD., San Francisco, Calif. Filed July 25, 1922. Under ten-year proviso.

WIELAND'S

Particular description of goods.—Canned Preserved Fruits, Jams, Jellies, and Fruit Sirups for Food Purposes.

Claims use since 1889.

Ser. No. 167,420. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed July 26, 1922.

Rialto

Particular description of goods.—Malt Sirup for Food Purposes.

Claims use since June 25, 1922.

Ser. No. 167,471. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LURIE COMPANY, INC., New York, N. Y. Filed July 27, 1922.

Girlish Styles
Magazine

No claim is made to the exclusive use of the word "Magazine" apart from the mark as shown.

Particular description of goods.—Monthly Magazine.

Claims use since Dec. 24, 1921.

Ser. No. 167,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. T. JOHN COMPANY, Johns, N. C. Filed July 29, 1922.

GOLDEN HARVEST

Particular description of goods.—Cantaloupes in Their Natural State.

Claims use since July 1, 1922.

Ser. No. 167,575. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. J. LINDEMANN & HOVERSON COMPANY, Milwaukee, Wis. Filed July 29, 1922.

L&H

Particular description of goods.—Electric Stoves, Heaters, Sadirons, Curling Irons, Toasters, Broilers, Hot Plates, and Radiators.
Claims use since May 15, 1922.

Ser. No. 167,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ILLINOIS FRUIT EXCHANGE, Centralia, Ill. Filed July 31, 1922.



The lining of the drawing denotes the colors red and green.
Particular description of goods.—Fresh Fruits and Vegetables.
Claims use since November, 1921.

Ser. No. 167,686. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PRODUCTS MFG. & SALES CO., Milwaukee, Wis. Filed Aug. 1, 1922.

Babbitrite

No claim made to the expression "As Necessary as the Ladle" apart from the mark shown by the drawing.
Particular description of goods.—Compound Having the Appearance of Putty and Used to Retain Molten Metal While Pouring Bearings.
Claims use since July 1, 1922.

Ser. No. 167,690. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER ROBERTSON & SON, LTD., Brentford Bridge, Middlesex, England. Filed Aug. 1, 1922.



No exclusive claim is made for the word "Goodies" aside from the environment shown. The picture of the man shown in the drawing is merely a fanciful picture of a Chelsea pensioner.
Particular description of goods.—Table Jellies, Caramel Toffees, and Other Boiled-Sugar Goods.
Claims use since 1911.

Ser. No. 167,767. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM A. DAVIS, doing business as Wm. A. Davis Co., Temple, Tex. Filed Aug. 3, 1922.

North Pole Turn-up

Particular description of goods.—Frozen Fruits and Ice Cream.
Claims use since Apr. 17, 1922.

Ser. No. 167,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LESLIE I. COGGINS, San Francisco, Calif. Filed Aug. 9, 1922.

RADI-O-PAC

Particular description of goods.—Toilet Cream.
Claims use since July 15, 1922.

Ser. No. 167,987. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed Aug. 9, 1922.

Under All

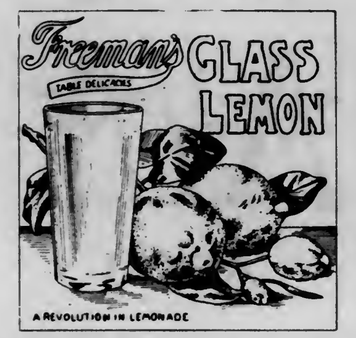
Particular description of goods.—Corsets, Brassières, Corset Covers, Waists, and Underwear of Textile Fabric for Women.
Claims use since Aug. 1, 1922.

Ser. No. 168,135. (CLASS 11. INKS AND INKING MATERIALS.) JAENECKE-AULT COMPANY, Newark, N. J. Filed Aug. 11, 1922.

Magic

Particular description of goods.—Printing Inks.
Claims use since about Feb. 1, 1900.

Ser. No. 168,147. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FREEMAN'S FOODS, LIMITED, Watford, England. Filed Aug. 12, 1922.



No claim is made to the exclusive use of the words, "Lemon," "Table Delicacies," and "A Revolution in Lemonade" or a representation of a lemon or glass apart from the mark shown in the drawing.
Particular description of goods.—Powders for Making Lemonade.
Claims use since June, 1907.

Ser. No. 168,220. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARVELLO LACE COMPANY, New York, N. Y. Filed Aug. 14, 1922.

Marvello

Particular description of goods.—Lace Edgings in the Piece.
Claims use since Mar. 1, 1922.

Ser. No. 168,328. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MILWAUKEE PAINT & VARNISH WORKS, Milwaukee, Wis. Filed Aug. 16, 1922.

Liquid Amber

Particular description of goods.—Varnish.
Claims use since May 17, 1922.

Ser. No. 168,359. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EHMANN OLIVE COMPANY, Oroville, Calif. Filed Aug. 17, 1922.

MOTHER EHMANN'S

Particular description of goods.—Canned Baked Beans with Pork.
Claims use since Apr. 6, 1922.

Ser. No. 168,413. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. E. HYDE & CO. INC., Campbell, Calif. Filed Aug. 18, 1922.

SUNNI-BRITE

Particular description of goods.—Canned Fruits.
Claims use since about July 1, 1920.

Ser. No. 168,493. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SISCO BROS. CANDY CO., Chicago, Ill. Filed Aug. 19, 1922.

Best-Yette

Particular description of goods.—Candy.
Claims use since May 1, 1921.

Ser. No. 168,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. R. S. CANDY STORES, INC., New York, N. Y. Filed Aug. 19, 1922.

"Happiness in Every Box"

Particular description of goods.—Candy.
Claims use since 1910.

Ser. No. 168,617. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Aug. 23, 1922.

DUCHESS

Particular description of goods.—Silver-Plated Flatware, Silver-Plated Tableware, and Silver-Plated Cutlery.
Claims use since June 15, 1922.

Ser. No. 168,618. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Aug. 23, 1922.

BARONET

Particular description of goods.—Silver-Plated Flatware, Silver-Plated Tableware, and Silver-Plated Cutlery.
Claims use since June 15, 1922.

Ser. No. 168,691. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ARTHUR PRICE, New York, N. Y. Filed Aug. 25, 1922.

REPEATOSCOPE

Particular description of goods.—Advertising Motion-Picture-Projection Apparatus, Motion-Picture-Projecting Machines, Motion-Picture-Display Cabinets, Racks for Supporting the Film During Projection, Motion-Picture Films, and Metallic Film-Carrying Strips.
Claims use since Aug. 5, 1922.

Ser. No. 168,724. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Aug. 26, 1922.

TUDOR PLATE

No claim is made to the exclusive use of the word "Plate" apart from the mark as shown on the drawing.
Particular description of goods.—Silver-Plated Flatware, Silver-Plated Tableware, and Silver-Plated Cutlery.
Claims use since June 15, 1922.

Ser. No. 168,729. (CLASS 38. PRINTS AND PUBLICATIONS.) RADIO PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 26, 1922.

RADIO
Merchandising
THE MAGAZINE OF THE RADIO TRADE

The words "The Magazine of the Radio Trade" are hereby disclaimed apart from the mark shown.
Particular description of goods.—Monthly Magazine.
Claims use since June 1, 1922.

Ser. No. 168,844. (CLASS 39. CLOTHING.) HUSELY SHOE CO., Rockland, Mass. Filed Aug. 29, 1922.

ATHLETIC
A/A
ARCH

No claim is made to the word "Arch" apart from the mark shown.
Particular description of goods.—Shoes Made of Leather, Rubber, and Fabric and Combinations of Leather and Rubber, Rubber and Fabric, Leather and Fabric, and Leather, Rubber, and Fabric.
Claims use since July 12, 1922.

Ser. No. 168,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. A. F. KAHLBAUM CHEMISCHE FABRIK GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Adlershof-Berlin, Germany. Filed Sept. 1, 1922.

„Novartamin"

Particular description of goods.—Medicinal and Pharmaceutical Prdoucts for Treating Gouty, Rheumatic, Neuralgic, and Migraine Affections.
Claims use since Dec. 12, 1915.

Ser. No. 168,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. A. F. KAHLBAUM CHEMISCHE FABRIK GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Adlershof-Berlin, Germany. Filed Sept. 1, 1922.

Chlorylen

Particular description of goods.—Medicinal and Chemical Pharmaceutical Products for Treating Neuralgic and Convulsive Affections.
Claims use since Dec. 12, 1915.

Ser. No. 169,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SALLY MINT COMPANY, New York, N. Y. Filed Sept. 7, 1922.

SALLY

Particular description of goods.—Candy and Peppermint Lozenges.
Claims use since Dec. 1, 1921.

Ser. No. 169,361. (CLASS 39. CLOTHING.) MME. IRENE, New York, N. Y. Filed Sept. 12, 1922.

Irènette

Particular description of goods.—Corsets.
Claims use since Aug. 15, 1922.

Ser. No. 169,366. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LAWRENCE SOAP CO., Methuen, Mass. Filed Sept. 12, 1922.

LASCO

Particular description of goods.—Soaps.
Claims use since Aug. 1, 1922.

Ser. No. 169,423. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LOUIS REUBENSTONE, New York, N. Y. Filed Sept. 13, 1922.

MISS FUMSUP

Particular description of goods.—Jewelry Consisting of a Figure Intended to be Used as a Charm or Pendant for a Watch or Other Chain, and for a Similar Figure Made of or Plated with Precious Metal and Intended to be Attached to Small Articles of Silver or Electroplate, Etc., Such as Pin Trays, Ash Trays, and the Like.
Claims use since Aug. 30, 1922.

Ser. No. 169,441. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J., assignor to Forstmann & Huffmann Company, Passaic, N. J., a Corporation of Delaware. Filed Sept. 14, 1922.

Silk and Cachemire
Duvetyne
4703

The right to the exclusive use of the words "Silk and Cachemire Duvetyne" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Woolen Piece Goods.
Claims use since March, 1914.

Ser. No. 169,754. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CASSILETH & SCHWARTZ, Brooklyn, N. Y. Filed Sept. 21, 1922.



Particular description of goods.—Fur Skins.
Claims use since Aug. 1, 1922.

Ser. No. 169,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR ANDREW WILCOX, doing business as Tween-Meal Products Co., Los Angeles, Calif. Filed Sept. 23, 1922.



Applicant disclaims the right to the exclusive use of the words "In All Creation No Superior Ration" and "They Keep a Tickling" apart from the mark as shown.
Particular description of goods.—Honey, Marmalade, Candied Fruits, Peanut Roll, Pecan Roll (Candy and Nuts).
Claims use since June 22, 1922.

Ser. No. 169,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y. Filed Sept. 25, 1922.



The lines in the panel on the drawing indicate red color.
Particular description of goods.—Caustic Soda, Granulated Lye, and Chlorinated Lime.
Claims use since Jan. 1, 1916.

Ser. No. 169,918. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NIAGARA ALKALI COMPANY, Niagara Falls, N. Y. Filed Sept. 25, 1922.



No claim is made to the lining on the drawing indicating the color red. No claim is made to the words "Niagara Flake Lye" for the purposes of the present registration, applicant, however, reserving its common-law rights thereto.
Particular description of goods.—Flake Lye.
Claims use since Aug. 3, 1922.

Ser. No. 169,996. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN BAALMANN, San Francisco, Calif. Filed Sept. 27, 1922.



The trade-mark consists of a facsimile of the portrait of John Baalmann, together with a facsimile of the handwriting of John Baalmann. No claim is made to the words "Baalmann's Gas Tablets, Trade-Mark, None Genuine Without This Signature" apart from the trade-mark as shown.
Particular description of goods.—Gas Tablets for Relieving Gas from the Stomach and Bowels, Discomfort, Bloat and Palpitation After Eating, Nervousness Inducing Restless Sleep, and Gas Pressure Around the Heart Region.
Claims use since May 20, 1919.

Ser. No. 170,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY L. SCOTT, Baltimore, Md. Filed Sept. 28, 1922.

KIDDY-KONE

No claim is made to the exclusive use of the word "Kone" apart from the mark as shown.
Particular description of goods.—Ice-Cream Cones Made of Milk Chocolate.
Claims use since on or about Sept. 20, 1922.

Ser. No. 170,115. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN UNIFORM COMPANY, INC., Wales, Mass. Filed Sept. 30, 1922.



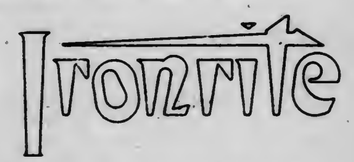
No claim is made herein to the registration of the word "Fabrics" apart from the mark as shown in the drawing.
Particular description of goods.—Woolen Fabrics in the Piece.
Claims use since July 20, 1922.

Ser. No. 170,164. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ROYAL C. TAFT, doing business as R. C. Taft Company, Chicago, Ill. Filed Sept. 30, 1922.

JECLAIR

Particular description of goods.—Ribbon Novelties or Trims as They may be Used upon Powder Puffs, Camisole Straps, Lingerie Sets, Ribbon Garters, Nosegays, Shoulder Pins, Baby-Cap Rosettes, Candy Containers, and Like Articles.
Claims use since about Feb. 1, 1921.

Ser. No. 170,222. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SPERLICH and UHLIG COMPANY, Detroit, Mich. Filed Oct. 2, 1922.



Particular description of goods.—Mangles.
Claims use since May, 1921.

Ser. No. 170,270. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) T. BUETTNER & CO., Chicago, Ill. Filed Oct. 4, 1922.

T. B. C.

Particular description of goods.—Art Needlework—viz, Embroidery, Novelty Crochet, and Featheredge.
Claims use since 1899.

Ser. No. 170,380. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

COCOANUT PUDDIN'

No claim is made to the word "Cocoanut" apart from the mark shown in the drawing.
Particular description of goods.—Chocolates and Candies.
Claims use since May 13, 1921.

Ser. No. 170,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

THORO-BRED

Particular description of goods.—Chocolates and Candies.
Claims use since Sept. 19, 1921.

Ser. No. 170,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUMBERLAND CHEMICAL CO., Nashville, Tenn. Filed Oct. 7, 1922.

PRO-CYS-TOL

Trade-mark consists of the arbitrarily-coined word "Pro-cys-tol."
Particular description of goods.—Proprietary Medicinal Preparations.
Claims use since Aug. 23, 1917.

Ser. No. 170,487. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL MFG. CO., Providence, R. I. Filed Oct. 9, 1922.



The words "Clean Up" apart from the mark shown are hereby disclaimed.
Particular description of goods.—Soaps.
Claims use since August, 1882.

Ser. No. 170,508. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S & G MANUFACTURING COMPANY, Stockton, Calif. Filed Oct. 9, 1922.

KOOLUNIT

Particular description of goods.—Combined Pump and Fan Attachment for Automobiles.
Claims use since Apr. 1, 1922.

Ser. No. 170,728. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PENNSYLVANIA SOAP COMPANY OF LANCASTER, PA., Lancaster, Pa. Filed Oct. 14, 1922.



No claim is made to the words "Floating Soap" apart from the mark as shown.
Particular description of goods.—Soaps.
Claims use since 1906.

Ser. No. 170,861. (CLASS 39. CLOTHING.) BENJAMIN & JOHNES, Newark, N. J. Filed Oct. 18, 1922.

JAC-QUETTE

Particular description of goods.—Brassières.
Claims use since Sept. 23, 1922.

Ser. No. 170,904. (CLASS 12. CONSTRUCTION MATERIALS.) SMITH-BEAL FIRE BRICK CO., Minneapolis, Minn. Filed Oct. 18, 1922.

Hi-Frax

Particular description of goods.—Fire Brick, High-Temperature Cements, Fire-Clay Tile, Cupola Blocks, and Kiln Liners.
Claims use since Dec. 6, 1921.

Ser. No. 170,964. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FRANK R. WITMAN, doing business as Frank R. Witman Phonograph Supply Company, Putnam, Conn. Filed Oct. 19, 1922.

W

Particular description of goods.—Phonograph Accessories Comprising Needles, Record Brushes Adapted to be Attached to and Detached from the Tone Arm, Phonograph Parts for the Different Makes of Machines, Comprising Mainsprings, Governor Springs, Gear Parts, Tone Arms, Sound Boxes.
Claims use since Oct. 1, 1921.

Ser. No. 171,009. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. REED BURNS MANUFACTURING CORP., Brooklyn, N. Y. Filed Oct. 21, 1922.

TRIPLE E

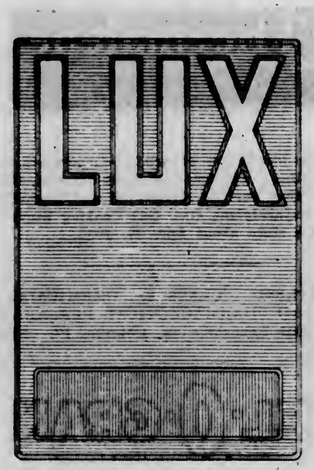
Particular description of goods.—Polishing Compositions in the Form of Powder, Paste, and Liquid for Metal.
Claims use since Nov. 22, 1921.

Ser. No. 171,019. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN M. HIBLER, doing business as J. M. Hibler Mfg. Co., Defiance, Ohio. Filed Oct. 21, 1922.

TOPSY

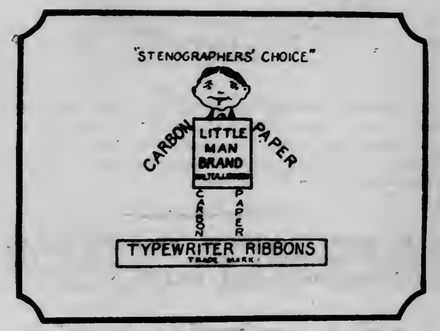
Particular description of goods.—Cleanser for Rugs, Carpets, Woolen Goods, Clothing, Upholstered Furniture, Bathtubs, and Household Purposes.
Claims use since Sept. 9, 1922.

Ser. No. 171,180. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEVER BROTHERS COMPANY, Cambridge, Mass. Filed Oct. 24, 1922.



The background of drawing is dark blue, the lower panel red, the letters white, and the borders red, as shown.
Particular description of goods.—Soap and Soap Powder.
Claims use since Mar. 1, 1918.

Ser. No. 171,221. (CLASS 11. INKS AND INKING MATERIALS.) WALTER J. JOHNSON, Columbus, Ohio. Filed Oct. 26, 1922.



No claim is made to the words "Stenographer's Choice," "Carbon Paper," "Typewriter Ribbons," and "Trade-Mark" apart from the mark shown in the drawing.
Particular description of goods.—Carbon Paper and Typewriter and Multigraph Ribbons.
Claims use since July 25, 1922.

Ser. No. 171,274. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KILZOL PRODUCTS COMPANY, New York, N. Y. Filed Oct. 27, 1922.

KILZO

Particular description of goods.—Insecticides, Disinfectants, and Deodorizers.
Claims use since July 21, 1922.

Ser. No. 171,317. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS BARUCH & Co., Los Angeles, Calif. Filed Oct. 28, 1922.



Particular description of goods.—Tapioca.
Claims use since Oct. 10, 1922.

Ser. No. 171,341. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDNA G. TWOMBLY, administratrix of the estate of the late Dr. James Twombly, Stoughton, Mass. Filed Oct. 28, 1922.

DR. TWOMBLY'S
"2X"

Particular description of goods.—Tonic for the Nervous System.
Claims use since January, 1914.

Ser. No. 171,380. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NORTHMAN PUBLISHING COMPANY, Portland, Oreg. Filed Oct. 30, 1922.

The Western AMERICAN

Trade-mark consists of the words "The Western American."
Particular description of goods.—Monthly Magazine.
Claims use since Oct. 23, 1922.

Ser. No. 171,432. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PLAINVILLE ELECTRICAL PRODUCTS COMPANY, Plainville, Conn. Filed Oct. 31, 1922.

P.E.P.

Particular description of goods.—Knife Switches, Panel Boards, Switchboards, and Fuse Reducers.
Claims use since Aug. 1, 1922.

Ser. No. 171,697. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) INTERNATIONAL SUPPLY COMPANY, Boston, Mass. Filed Nov. 7, 1922.

"KASTERSLIDES"

No claim is made to the exclusive use of the words "Kaster" or "Slides."
Particular description of goods.—Sliding Casters.
Claims use since Aug. 12, 1922.

Ser. No. 171,806. (CLASS 39. CLOTHING.) KNOX HAT COMPANY, INC., New York, N. Y. Filed Nov. 10, 1922.

Vagabond

Particular description of goods.—Hats for Men, Women, and Children.
Claims use since about 1912.

Ser. No. 171,823. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THERMALENE GAS CORPORATION, Kankakee, Ill. Filed Nov. 10, 1922.

Thermalene

Particular description of goods.—Generators for Producing Gas, Gas Cartridges and Parts Thereof, Gas Welding and Cutting Torches, Compound and Ingredients for Producing Oxyacetylene Gas, Gas Cooking Stoves.
Claims use since about Apr. 27, 1915.

Ser. No. 171,884. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABEL-JENSEN LABORATORIES, Chicago, Ill. Filed Nov. 13, 1922.

YEL-O-GRAN

Particular description of goods.—Alkaline Salts.
Claims use since Oct. 25, 1922.

Ser. No. 171,906. (CLASS 39. CLOTHING.) CRADDOCK TERRY COMPANY, Lynchburg, Va. Filed Nov. 13, 1922.

Sloan's RestCure Arch Renewer

No claim is made to the use of the words "Arch Renewer" apart from the mark shown on the drawing.
Particular description of goods.—Women's Shoes of Leather or Fabric or a Combination Thereof.
Claims use since Oct. 15, 1922.

Ser. No. 171,987. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EASTING WINDSCREENS LIMITED, Birmingham, England. Filed Nov. 14, 1922.

EASTING

Trade-mark consists of the word "Easting."
Particular description of goods.—Wind Screens for Use with Vehicles.
Claims use since 1916.

Ser. No. 172,060. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Nov. 15, 1922.

REDDY

Particular description of goods.—Lingerie Tape, Pins, Rickrack Braid, Hair Curlers, Twilled Tape, Hair Waivers, Hairpins Not Made of Precious Metal.
Claims use since July 11, 1922.

Ser. No. 172,080. (CLASS 11. INKS AND INKING MATERIALS.) THE BUCKEYE RIBBON & CARBON CO., Cleveland, Ohio. Filed Nov. 16, 1922.

Bucki

Particular description of goods.—Carbon Paper and Typewriter Ribbons.
Claims use since May, 1905.

Ser. No. 172,201. (CLASS 39. CLOTHING.) CALHOUN, ROBBINS & CO., New York, N. Y. Filed Nov. 18, 1922.



Particular description of goods.—Hose Supporters, Garters, Arm Bands, Suspenders, Belts, Children's Knee Protectors, Hose and Waist Supporters, Shirt Neckbands, Pants Bands, and Skeleton Waists, Bathing Caps, Bathing Shoes, Bed Socks, Knit Slippers, Infants' and Children's Clothing as Follows: Caps, Hoods, Diapers, Drawers, Gowns, Leggings, Bibs, Bootees, Moccasins, Leather and Cloth Shoes, Mittens, Rompers, Sacks; Men's, Women's, and Children's Undershirts, Bands, Dresses, Slips, Skirts, Sweaters, Waists, Coats, Hats, and Sunbonnets; Children's, Ladies', Misses', Men's and Boys' Fabric Gloves, Worsted Gloves, and Mittens; Brassières, Corsets, and Corset Waists, Ladies' Underwear of Textile Fabric, Corset Covers, Petticoats, House Dresses, Gowns, Kimonos, Sweaters for Men and Women, Knit Worsted Skirts, Misses' and Ladies' Leggings, Overgaiters, Aviation Caps, Sunbonnets, Beach Hats, Ladies' Vestees, Collars, Cuffs, Scarfs, Baby Pants, and Household Aprons.
Claims use since July 1, 1890.

Ser. No. 172,238. (CLASS 39. CLOTHING.) PARKER-BRIDGET COMPANY, Washington, D. C. Filed Nov. 18, 1922.

Bond Street

Particular description of goods.—Men's Winter Hats.
Claims use since Sept. 1, 1921.

Ser. No. 172,262. (CLASS 39. CLOTHING.) CHAS. H. COULSON, doing business as Coulson Heel Company, Hanover, Pa. Filed Nov. 20, 1922.

JIFFY-ON

Particular description of goods.—Shoe Heels.
Claims use since May 10, 1920.

Ser. No. 172,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMORY J. EVANS, Kenova, W. Va. Filed Nov. 21, 1922.

C & L
E J E

Particular description of goods.—Medicine and Ingredients of Medicine Used for Tuberculosis, Bronchial Trouble, Also Colds, Coughs, Sore Throat, Influenza, and Pneumonia.
Claims use since Oct. 17, 1920.

Ser. No. 172,389. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL GRAPHITE COMPANY, doing business as National Laboratories, Boston, Mass. Filed Nov. 22, 1922.

Black Satin
STOVE POLISH
THE POLISH LASTS

No claim is made to the exclusive use of the words "Stove Polish," "The Polish Lasts" apart from the mark as shown.
Particular description of goods.—Metal and Stove Polish.
Claims use since latter part of July, 1922.

Ser. No. 172,391. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) N. V. VERNIS- EN VERFFABRIEK V. H. J. WAGENMAKERS & ZONEN, Breda, Netherlands. Filed Nov. 22, 1922.



No claim is made to the wording with the exception of the firm name and the word "Teolin" apart from the mark shown.

Particular description of goods.—Paints of All Kinds, Including Paints in Pulverized Form, Prepared Paints, Varnish Paints, Enamel Paints, Varnishes, Paint Oils, and Quick-Drying Oils.

Claims use since June 1, 1904.

Ser. No. 172,394. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO-LITE, INC., Boston, Mass. Filed Nov. 22, 1922.

RADIO-LITE

Particular description of goods.—Electric Lights for Automobiles and Other Vehicles and Parts Thereof.

Claims use since Nov. 10, 1922.

Ser. No. 172,420. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) KING PLAYER ACTION COMPANY, INC., New York, N. Y. Filed Nov. 23, 1922.

KING

Particular description of goods.—Piano-Player Actions.

Claims use since Oct. 24, 1922.

Ser. No. 172,421. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KASS ELECTRIC COMPANY, Duluth, Minn. Filed Nov. 23, 1922.

FUEMIZER

Particular description of goods.—Electric Vaporisers Comprising a Conductor or Conductors of Electricity, as a Wire Screen or Grid, Adapted to be Heated by the Current Flowing Therethrough and Adapted to Contact With or Extend Into a Flowing Stream or Spray of Liquid for the Purpose of Heating and Vaporizing Said Liquid or Spray—as, for Example, Adapted to Extend Into a Stream or Spray of Gasoline Flowing From a Carburetor Toward the Cylinder of an Internal-Explosive Engine for the Purpose of Heating and Vaporizing Said Gasoline.

Claims use since Oct. 27, 1922.

Ser. No. 172,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS L. MCCOLLAM, doing business as Kozol Laboratories, New York, N. Y. Filed Nov. 23, 1922.

KOZOL

Particular description of goods.—Medical Compounds Prescribed for the Relief of Pain and for the Reduction of Temperature.

Claims use since Nov. 1, 1922.

Ser. No. 172,458. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOSEPH J. WHITE, INC., New Lisbon, N. J. Filed Nov. 23, 1922.

Whitesbog

Particular description of goods.—Blueberry Plants.

Claims use since Mar. 10, 1922.

Ser. No. 172,459. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD F. WHITE, doing business as White Products Company, Norfolk, Va. Filed Nov. 23, 1922.

WHITE'S MUSTA-BALM

Particular description of goods.—Preparation for the Treatment of Coughs, Colds, Bronchitis, Rheumatism, Pneumonia, Headache, Neuralgia, and Sore Joints and Muscles.

Claims use since Oct. 1, 1922.

Ser. No. 172,512. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) LEO L. CHADWIN, doing business as Gem Tire and Rubber Company, Philadelphia, Pa. Filed Nov. 25, 1922.

GEM

Trade-mark consists of the word "Gem."

Particular description of goods.—Tires and Inner Tubes of Rubber Compound.

Claims use since Aug. 5, 1922.

Ser. No. 172,533. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) F. R. HENDERSON & CO., INC., New York, N. Y. Filed Nov. 25, 1922.

MALATEX

Particular description of goods.—Caoutchouc Milk.

Claims use since Apr. 1, 1922.

Ser. No. 172,557. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FRANCIS ROGERS & SONS, New York, N. Y. Filed Nov. 25, 1922.

ROGERSPEDIC ARCH SUPPORT

No claim is made to the words "Arch Support" apart from the mark shown in the drawing.

Particular description of goods.—Arch Supports.

Claims use since Oct. 1, 1922.

Ser. No. 172,661. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BALSAMEA CO., San Francisco, Calif. Filed Nov. 29, 1922.

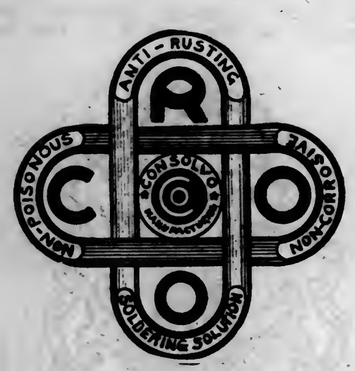


No claim is made to the use of the word "Bal-Sa-Me-A" apart from the trade-mark as shown on the drawing, although applicant specifically reserves all common-law rights thereto.

Particular description of goods.—Medicinal Preparation Recommended for the Treatment of Affections of the Throat, Bronchial Tubes, and Lungs.

Claims use since Mar. 11, 1922.

Ser. No. 172,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSOLVO MANUFACTURING COMPANY, INC., South Norfolk, Va. Filed Nov. 29, 1922.



All of the wording appearing on the said trade-mark with the exception of the words "Coro" and "Consolvo" being for the purpose of this application, hereby disclaimed.

Particular description of goods.—Chemical Used as a Flux for the Preparation of an Antirusting Soldering Solution.

Claims use since Sept. 20, 1922.

Ser. No. 172,825. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EDWIN NOTT BLACKMORE, Vancouver, British Columbia, Canada. Filed Dec. 2, 1922.

DAINTY WHITE

Particular description of goods.—Washing Compounds and Liquids.
Claims use since Oct. 1, 1918.

Ser. No. 172,836. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) FRANCIS W. HENNESSY, Providence, R. I. Filed Dec. 2, 1922.



No exclusive right to the word "Dryer" and the representation of the goods is made apart from the mark shown in the drawing. The picture appearing on the drawing is fanciful.
Particular description of goods.—Clothes-Supporting Racks.
Claims use since Nov. 9, 1922.

Ser. No. 172,837. (CLASS 39. CLOTHING.) HUTT & WASSERMAN, INC., New York, N. Y. Filed Dec. 2, 1922.



No claim made to the word "Finish" apart from the mark shown.
Particular description of goods.—Men's Hats.
Claims use since Mar. 31, 1922.

Ser. No. 172,852. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. L. WAELCHLI, Denver, Colo. Filed Dec. 2, 1922.



Particular description of goods.—Pharmaceutical Preparations Used as an Inhalant for Use in Cases of Tuberculosis.
Claims use since Nov. 24, 1922.

Ser. No. 172,899. (CLASS 39. CLOTHING.) OWEGO CORSET COMPANY, INC., Owego, N. Y. Filed Dec. 4, 1922.

Lady Mary

Particular description of goods.—Corsets, Girdles, Bandeaux, and Brassières.
Claims use since Nov. 4, 1922.

Ser. No. 172,900. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLIC LEDGER COMPANY, Philadelphia, Pa. Filed Dec. 4, 1922.

DUMB-BELLS

Particular description of goods.—Title for Cartoons.
Claims use since Feb. 27, 1922.

Ser. No. 172,948. (CLASS 39. CLOTHING.) LONDON SHOP CO., INC., New York, N. Y. Filed Dec. 5, 1922.



No claim made to the exclusive use of the word "London" apart from the mark as shown in the drawing. The lining in the drawing represents shading only.
Particular description of goods.—Fabric and Leather Shoes for Men, Women, and Children.
Claims use since Oct. 1, 1922.

Ser. No. 173,001. (CLASS 39. CLOTHING.) OPPENHEIM, COLLINS & COMPANY, NEW YORK, INC., New York, N. Y. Filed Dec. 6, 1922.

Opcolco

Particular description of goods.—Footwear—Namely, Slippers, Pumps, Oxfords, Sandals, Lace and Button Shoes, Said Footwear Being Made of Leather, Rubber, Fabric, and Combinations of These Materials.
Claims use since Sept. 27, 1922.

Ser. No. 173,139. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Dec. 9, 1922.

"Chim-ring"

Particular description of goods.—Silk Piece Goods.
Claims use since October, 1922.

Ser. No. 173,149. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y. Filed Dec. 9, 1922.

SUNSHINE

Particular description of goods.—Hops.
Claims use since about Dec. 1, 1922.

Ser. No. 173,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. J. BUSH & CO., INC., New York, N. Y. Filed Dec. 11, 1922.



Particular description of goods.—Toilet Water.
Claims use since Mar. 1, 1903.

Ser. No. 173,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. J. BUSH & CO., INC., New York, N. Y. Filed Dec. 11, 1922.



Particular description of goods.—Toilet Water.
Claims use since Mar. 1, 1903.

Ser. No. 173,186. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Dec. 11, 1922.



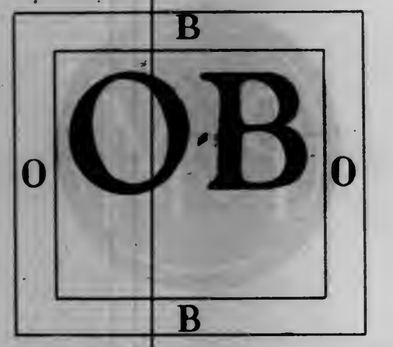
Particular description of goods.—Rubber Tires.
Claims use since Dec. 1, 1922.

Ser. No. 173,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed Dec. 11, 1922.

Oilaa Head Rub

No claim is made to the words "Head Rub" apart from the mark as shown.
Particular description of goods.—Hair Tonic and Fixative.
Claims use since Nov. 11, 1922.

Ser. No. 173,203. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OLSON BROTHERS COMPANY, Minneapolis, Minn. Filed Dec. 11, 1922.



Particular description of goods.—Polishes for Furniture, Automobiles, and Varnished and Finished Surfaces Generally.
Claims use since Nov. 15, 1922.

Ser. No. 173,204. (CLASS 31. FILTERS AND REFRIGERATORS.) REUBEN E. OTTENHEIMER, doing business as The Reel Refrigerator Co., Baltimore, Md. Filed Dec. 11, 1922.



Particular description of goods.—Refrigerators and Refrigerator Show Cases.
Claims use since on or about Nov. 1, 1922.

Ser. No. 173,209. (CLASS 38. PRINTS AND PUBLICATIONS.) BERT REESE, Philadelphia, Pa. Filed Dec. 11, 1922.



Particular description of goods.—Cartoons and Illustrations Used for Advertising Purposes.
Claims use since Dec. 1, 1921.

Ser. No. 173,264. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WEST DISINFECTING COMPANY, New York, N. Y. Filed Dec. 12, 1922.

SOAPARATUS

Particular description of goods.—Liquid-Soap-Dispensing Systems.
Claims use since Aug. 10, 1922.

Ser. No. 173,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK LEO BERG, Alton, Ill. Filed Dec. 13, 1922.

HOME BREW

Particular description of goods.—Candy.
Claims use since first part of September, 1922.

Ser. No. 173,304. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SILBERSTEIN, ROSEN & SONS, INC., New York, N. Y. Filed Dec. 13, 1922.



The drawing is lined to indicate yellow background, blue color in the word "Supreme," red color in the words "Trade Mark" and "Gentlemen's Sanitary Packed Handkerchiefs," and dotted to represent gold. No claim is made to the words "Trade Mark," "Gentlemen's Sanitary Packed Handkerchiefs" and "2 for 25¢" apart from the mark shown on the drawing.
Particular description of goods.—Handkerchiefs.
Claims use since 1914.

Ser. No. 173,314. (CLASS 39. CLOTHING.) ALFRED HALB RUBBER COMPANY, Quincy, Mass. Filed Dec. 14, 1922.



Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Canvas, Rubber, or Textile Material.
Claims use since Sept. 1, 1922.

Ser. No. 173,321. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CHORE UTENSILS CORPORATION OF AMERICA, Orange, N. J. Filed Dec. 14, 1922.

CHORE RING

Particular description of goods.—Scouring Utensils.
Claims use since Dec. 1, 1922.

Ser. No. 173,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK G. MITCHELL, doing business as L. Mitchell & Company, Chicago, Ill. Filed Dec. 14, 1922.

MITCHELL'S MAGIC MARVEL

Particular description of goods.—Bluing Paddles.
Claims use since Jan. 14, 1922.

Ser. No. 173,357. (CLASS 39. CLOTHING.) V. K. & A. H. JONES & THOMAS CO., Lynn, Mass. Filed Dec. 15, 1922.



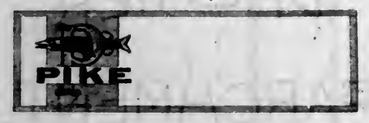
Particular description of goods.—Boots and Shoes Made of Leather or Leather and Cloth.
Claims use since Nov. 20, 1922.

Ser. No. 173,360. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH H. MORRILL, Portsmouth, N. H. Filed Dec. 15, 1922.



No claim made to the word "Coat" apart from the mark shown in the drawing.
Particular description of goods.—Automobile-Top Dressing.
Claims use since July 15, 1922.

Ser. No. 173,362. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PIKE MANUFACTURING COMPANY, Pike and Littleton, N. H.; Evansville, Vt.; New York, N. Y.; Orleans, Ind.; and Hot Springs, Ark. Filed Dec. 15, 1922.



The horizontal lining in the drawing does not represent any particular color but defines an area which upon the label bearing the trade-mark appears in a solid color contrasting with the rest of the label.
Particular description of goods.—Oilstones, Scythestones, Whetstones, Axe Stones, Oil and Water Stones, Hones, Strops, Stones for Grinding Purposes, Grinding Disks and Wheels, and Sharpening Stones.
Claims use since Jan. 1, 1912.

Ser. No. 173,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. ROLLER, Spokane, Wash. Filed Dec. 15, 1922.



Particular description of goods.—Insecticide for Use in Exterminating Rodents and Insects.
Claims use since May 30, 1922.

Ser. No. 173,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH J. SELDAGE, Spokane, Wash. Filed Dec. 15, 1922.

GO-FER

Particular description of goods.—Insecticide for Use in Exterminating Rodents, Ground-Burrowing Animals, Such as Squirrels and the Like.
Claims use since Oct. 13, 1922.

Ser. No. 173,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAN-HO-LAB. CHEMICAL CO., New Orleans, La. Filed Dec. 16, 1922.



Trade-mark consists of white letters on a red background with a blue border.
Particular description of goods.—Insecticide and Germicide.
Claims use since Dec. 5, 1922.

Ser. No. 173,411. (CLASS 37. PAPER AND STATIONERY.) THE EXLINE & EXLINE CO., Dallas, Tex. Filed Dec. 16, 1922.

PREMIER

PARCHMENT

No claim to the word "Parchment" apart from the mark as shown.

Particular description of goods.—Bond Papers.
Claims use since Nov. 5, 1921.

Ser. No. 173,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 16, 1922.

CARNIVAL

Particular description of goods.—Chocolates.
Claims use since Dec. 1, 1922.

Ser. No. 173,438. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE COMPANY, Chicago, Ill. Filed Dec. 16, 1922.

LIZZIE

Particular description of goods.—Candy.
Claims use since Oct. 1, 1922.

Ser. No. 173,447. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE SMITH & EGGE MANF'G. CO., Bridgeport, Conn. Filed Dec. 16, 1922.

GIANT

Particular description of goods.—Sheet-Metal Chains.
Claims use since 1878.

Ser. No. 173,461. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. H. BARTON AND SON CO. INC., Philadelphia, Pa. Filed Dec. 18, 1922.

NOFIL

Particular description of goods.—Aluminum-Oxide Paper, Carbon Paper, Electric Abrasive Cloth, Emery Cloth, Emery Paper, Flint Cloth (Roll), Flint Sheet Paper, French Emery Paper, Garnet Roll Cloth, Garnet Roll Cloth X Grade, Garnet Roll Paper, Garnet Roll Paper X Grade, Garnet Sheet Paper, Garnet Sheet Paper X Grade, Obrac Paper, Polishing Paper Double Face, Polishing Paper Single Face, and Silicon-Carbide Paper.
Claims use since about Dec. 5, 1922.

Ser. No. 173,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY L. HUGHES CO. INC., New York, N. Y. Filed Dec. 18, 1922.

Mirror

Particular description of goods.—Nail Polish.
Claims use since about Oct. 1, 1920.

Ser. No. 173,500. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. KRANK MFG. CO., St. Paul, Minn. Filed Dec. 18, 1922.

PINK BLUSH

Particular description of goods.—Vanishing and Massage Cream.
Claims use since Mar. 9, 1907.

Ser. No. 173,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROACH TISDALE & CO., Minneapolis, Minn. Filed Dec. 18, 1922.

Hugs & Kisses

Particular description of goods.—Confections Comprising Chocolates, Bonbons, Hard Candies, Jordan Almonds, and Jellies.
Claims use since June 20, 1922.

Ser. No. 173,552. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) AMERICAN RANGE & FOUNDRY COMPANY, Minneapolis, Minn. Filed Dec. 19, 1922.

SANICO

Particular description of goods.—Clothes-Washing Machines.
Claims use since Mar. 10, 1922.

Ser. No. 173,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNTINGTON D. SAWKINS, Baltimore, Md. Filed Dec. 19, 1922.

SHELL
ON
SOL-TED

Particular description of goods.—Salted Peanuts and Salted Almonds.
Claims use since November, 1919.

Ser. No. 173,586. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Dec. 19, 1922.

WABACO

Particular description of goods.—Yeast Food.
Claims use since Dec. 6, 1922.

Ser. No. 173,657. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Dec. 21, 1922.

VANOMAR

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since on or about June 1, 1916.

Ser. No. 173,709. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ERSTE KARLSRUHER PARFÜMERIE- & TOILETTESEIFEN-FABRIK, F. WOLFF & SOHN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Vienna, Austria. Filed Dec. 22, 1922.

FLORASMA

Particular description of goods.—Toilet Soap and Shaving Powder to be Used in Place of Shaving Soap.
Claims use since July 22, 1909.

Ser. No. 173,710. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KARLSRUHER PARFÜMERIE- & TOILETTESEIFEN-FABRIK, F. WOLFF & SOHN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Karlsruhe, Germany. Filed Dec. 22, 1922.

Phantasma

Particular description of goods.—Toilet Soap and Shaving Powder to be Used in Place of Shaving Soap.
Claims use since Oct. 22, 1909.

Ser. No. 173,736. (CLASS 27. HOROLOGICAL INSTRUMENTS.) AMERICAN WATCH IMPORT COMPANY, Detroit, Mich. Filed Dec. 23, 1922.

SWEETHEART

Particular description of goods.—Watchcases.
Claims use since Apr. 18, 1922.

Ser. No. 173,737. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH AND SONS, New York, N. Y. Filed Dec. 23, 1922.

7-11

Particular description of goods.—Candies.
Claims use since July 1, 1922.

Ser. No. 173,763. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GLO-TEX COMPANY, Indianapolis, Ind. Filed Dec. 23, 1922.

Glo-Tex

Particular description of goods.—Cleaning Fluid for Dry-Cleaning Fabrics, Leather, and the Like.
Claims use since Mar. 1, 1922.

Ser. No. 173,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HONEY PRODUCTS CO., Tustin, Calif. Filed Dec. 23, 1922.

Honiella

Particular description of goods.—Peanut Jam.
Claims use since Nov. 24, 1922.

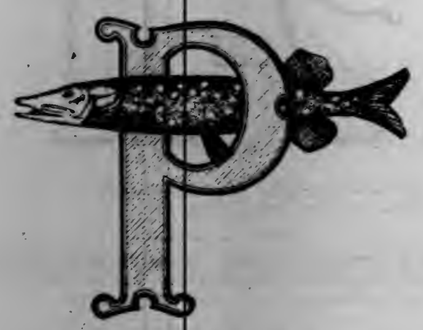
Ser. No. 173,778. (CLASS 39. CLOTHING.) CHARLES S. MERTON & Co., East Rutherford, N. J. Filed Dec. 23, 1922.



No claim is made to the exclusive use of the words "Produced in the Shops of" apart from the mark as shown in the drawing.

Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since Oct. 1, 1922.

Ser. No. 173,783. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PIKE MANUFACTURING COMPANY, Pike and Littleton, N. H.; Evansville, Vt.; New York, N. Y.; Orleans, Ind., and Hot Springs, Ark. Filed Dec. 23, 1922.



The diagonal lining in the drawing is not intended to represent color.

Particular description of goods.—Oilstones, Scythestones, Whetstones, Axe Stones, Oil and Water Stones, Hones, Strops, Stones for Grinding Purposes, Grinding Disks and Wheels, and Sharpening Stones of Other Varieties.

Claims use since about Jan. 1, 1885.

Ser. No. 173,792. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. THOMAS-BODY CO., Oakland, Calif. Filed Dec. 23, 1922.



Particular description of goods.—Canned Fruits.

Claims use since Oct. 1, 1922.

Ser. No. 173,844. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MICA INSULATOR COMPANY, New York, N. Y. Filed Dec. 26, 1922.

MICO

Particular description of goods.—Treated and Untreated Tapes for Electrical Insulation Purposes.

Claims use since July 1, 1914.

Ser. No. 173,859. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOUTHERN SPRING BED COMPANY, Atlanta, Ga. Filed Dec. 26, 1922.

BLUE RIBBON

Particular description of goods.—Spring Beds, Mattresses, Cots, and Metal Bedsteads.

Claims use since Apr. 1, 1903.

Ser. No. 173,890. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JORDAN MARSH COMPANY, Boston, Mass. Filed Dec. 27, 1922.

"Avona"

Particular description of goods.—Electric Sadirons.

Claims use since Apr. 1, 1921.

Ser. No. 173,948. (CLASS 38. PRINTS AND PUBLICATIONS.) THE AMERICAN BANKING MACHINE CORPORATION, Saginaw, Mich. Filed Dec. 29, 1922.



Particular description of goods.—Advertising Cards and Educational Posters.

Claims use since July 15, 1922.

Ser. No. 173,968. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KERMUL PRODUCTS, INC., New York, N. Y. Filed Dec. 29, 1922.

KERMUL

Particular description of goods.—Wonder Soap, Body Wash, Floor Cleanser, Glass Polish, Metal Polish, White Wonder Soap, Industrial Soap, Laundry Soap, Mechanics' Soap, and Window Polish.

Claims use since Mar. 1, 1921.

Ser. No. 173,994. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM E. BRACKETT, Toledo, Ohio. Filed Dec. 30, 1922.



Particular description of goods.—Powder for Bathing, Washing, and Cleaning Purposes.

Claims use since Oct. 31, 1922.

Ser. No. 174,028. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PFUND NURSERY CO., Oak Park, Ill. Filed Dec. 30, 1922.

Pfund's

"GRO-GREEN"

Particular description of goods.—Nursery Products—Namely, Trees, Shrubs, Roses, Vines, Perennials, and Bulbs.

Claims use since Aug. 1, 1922.

Ser. No. 174,038. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS S. SMITH, Chicago, Ill. Filed Dec. 30, 1922.

SMITH'S TAYST-A-WON

Particular description of goods.—Fresh Deciduous Fruits and Fresh Vegetables.

Claims use since June 1, 1922.

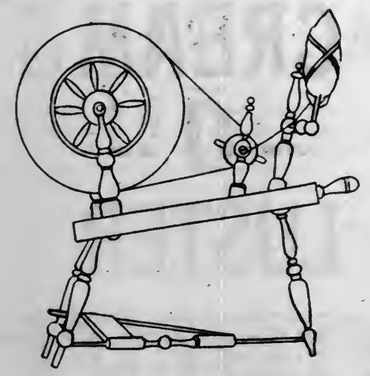
Ser. No. 174,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIONEL TRADING CO., INC., New York, N. Y. Filed Jan. 2, 1923.

TRIPLET

Particular description of goods.—Face Powders and Rouges.

Claims use since about Dec. 20, 1922.

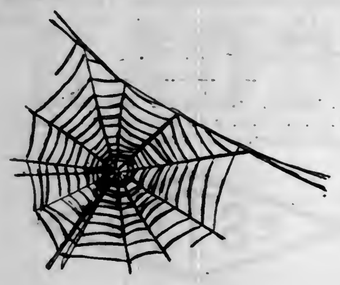
Ser. No. 174,088. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYNDON CHEMICAL COMPANY, Dayton, Ohio. Filed Jan. 2, 1923.



Particular description of goods.—Ointment for Aches, Pains, Bruises, Boils, Burns, Chapped Skin, Cuts, Colds, Earache, Frostbites, Insect Bites, Piles, Eruptions, Old Sores, Ivy Poisoning, Sprains, Sore Throat, and Sunburn.

Claims use since Apr. 1, 1922.

Ser. No. 174,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYNDON CHEMICAL COMPANY, Dayton, Ohio. Filed Jan. 2, 1923.



Particular description of goods.—Ointment for Aches, Pains, Bruises, Boils, Burns, Chapped Skin, Cuts, Colds, Earache, Frostbites, Insect Bites, Piles, Eruptions, Old Sores, Ivy Poisoning, Sprains, Sore Throat, and Sunburn.

Claims use since Apr. 1, 1922.

Ser. No. 174,091. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKAY COMPANY, New York, N. Y. Filed Jan. 2, 1923.

Velvet

Particular description of goods.—Chemical Compound for Etching Glass.

Claims use since Sept. 1, 1921.

Ser. No. 174,142. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOSEPH JENEN, doing business as The J. J. Company, Chicago, Ill. Filed Jan. 3, 1923.

CREAM
-- O --
LUSTER

Particular description of goods.—Polish for Varnished, Enameled, and Lacquered Surfaces, with Incidental Properties as a Cleaner.
Claims use since about Oct. 20, 1922.

Ser. No. 174,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France. Filed Jan. 4, 1923.

CHRISTMAS NIGHT

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Oct. 15, 1922.

Ser. No. 174,201. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DALTON, WHITTIER, TRUE COMPANY, Chicago, Ill. Filed Dec. 30, 1922.

ESTRU

Particular description of goods.—Electrical Control Apparatus—Namely, Automatic Switches, Current Controllers; and Radio Apparatus—Namely, Variometers, Variocouplers, Lattice Coils, Receiving Sets.
Claims use since on or about May 11, 1922.

Ser. No. 174,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM WENTWORTH HERRICK, Saratoga Springs, N. Y. Filed Jan. 5, 1923.

WONDER-KURA

Particular description of goods.—Cathartic Tablets, Dyspepsia and Indigestion Tablets and Antiseptic Preparations for the Treatment of Scalds, Burns, Skin Diseases and Affections, and Rheumatism.
Claims use since Jan. 11, 1901.

Ser. No. 174,211. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Jan. 5, 1923.

Zenith

Particular description of goods.—Laundry Washing Machines and Wringers.
Claims use since June 30, 1899.

Ser. No. 174,239. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES T. GALLAGHER, doing business as Edith Frances, Miami, Fla. Filed Jan. 6, 1923.

QUIET

Particular description of goods.—Deodorant.
Claims use since August, 1920.

Ser. No. 174,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PHOSPHO-ALBUMEN COMPANY, INC., Newburgh, N. Y. Filed Jan. 6, 1923.

TRYHEPTIN
[P-A C]

Particular description of goods.—Pharmaceutical Preparation, Being a Compound of the Converting Enzymes of the Pancreas, Liver, and Spleen, Together with Enzymes of the Producing Glands, for the Treatment of Diabetes Mellitus and Pancreatic and Hepatic Glycosuria.
Claims use since November, 1921.

Ser. No. 174,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUST G. DE BAULE, doing business as Porcupine Medicine Co., Blewett and Spokane, Wash. Filed Jan. 8, 1923.

Porcupine

Particular description of goods.—Compound for Treating Rheumatism and Diseases of the Blood.
Claims use since September, 1919.

Ser. No. 174,317. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JUDSON T. MASON, doing business as Tol-O-Nite Remedy Co., Washington, D. C. Filed Jan. 8, 1923.

TOL-O-NITE

Particular description of goods.—Compound for Treating Influenza, Grippe, Coughs, Colds, Asthma, and Affections of the Kidneys and Bladder.
Claims use since Jan. 3, 1923.

Ser. No. 174,318. (CLASS 38. PRINTS AND PUBLICATIONS.) A. G. MCMILLAN, doing business as Sales Equipment Company, Detroit, Mich. Filed Jan. 8, 1923.

FordeX

Particular description of goods.—Combination Index and Sales-Data Book Published Periodically.
Claims use since July 1, 1922.

Ser. No. 174,321. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 8, 1923.

R

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since Sept. 1, 1918.

Ser. No. 174,322. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 8, 1923.

R. S.

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since Sept. 1, 1918.

Ser. No. 174,323. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 8, 1923.

W & A

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since Sept. 1, 1918.

Ser. No. 174,324. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 8, 1923.

BLACK "A"

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since October, 1918.

Ser. No. 174,427. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CONTINENTAL RUBBER COMPANY OF NEW YORK, New York, N. Y. Filed Jan. 11, 1923.

DURO

Particular description of goods.—Washed and Dried Unvulcanized Guayule Rubber.
Claims use since December, 1917.

Ser. No. 174,455. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OCEE JUSTUS, doing business as Rado Manufacturing Company, Muncie, Ind. Filed Jan. 11, 1923.

RADO

Particular description of goods.—Liquid Soap.
Claims use since Nov. 2, 1922.

Ser. No. 174,545. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRAVIS, ROMAINE & JELLE, INC., New York, N. Y. Filed Jan. 12, 1923.

Sonora Crepe

The word "Crepe" is disclaimed apart from the mark shown.
Particular description of goods.—Silk, Artificial-Silk, Cotton, and Wool Piece Goods and Combinations Thereof.
Claims use since Nov. 1, 1922.

Ser. No. 174,549. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WAY WORKS, INCORPORATED, Philadelphia, Pa. Filed Jan. 12, 1923.

WAY.

Particular description of goods.—Hinges.
Claims use since Sept. 1, 1922.

Ser. No. 174,566. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN ROGERS FLANNERY, Pittsburgh, Pa. Filed Jan. 13, 1923.

FLANNDIS

Particular description of goods.—Gear Shifts and Parts Thereof for Motor Vehicles.
Claims use since Dec. 26, 1922.

Ser. No. 174,592. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHARLES A. REYNOLDS, doing business as C. A. Reynolds Leather Company, Camden, N. J. Filed Jan. 13, 1923.

Carlco

Particular description of goods.—Goatskins, Colt and Horse Hides, Kips, and Cow Sides.
Claims use since Nov. 1, 1922.

Ser. No. 174,610. (CLASS 37. PAPER AND STATIONERY.) THE CHILLICOTHE PAPER COMPANY, Chillicothe, Ohio. Filed Jan. 15, 1923.

LOGAN BRANDS

No claim is made to the use of the word "Brands" apart from the mark as shown.
Particular description of goods.—Book Paper, Coated and Uncoated, Bond Paper, and Writing Paper.
Claims use since Feb. 1, 1921.

Ser. No. 174,621. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923. Under ten-year proviso.

NASSAU

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about October, 1887.

Ser. No. 174,626. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOM-PYRRHO CO., San Francisco, Calif. Filed Jan. 15, 1923.

HOM-PYRRHO

Particular description of goods.—Mouth Wash and a Remedy for Pyorrhea.
Claims use since June 1, 1921.

Ser. No. 174,629. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ROGER WELTY NAYLOR, Chicago, Ill. Filed Jan. 15, 1923.

SANTEX

Particular description of goods.—Sanitary Napkins Made from Cotton Linters Processed with Filling Covered with Knitted Tubing.
Claims use since Jan. 6, 1923.

Ser No. 174,641. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EUGENE A. SPRAGUE, doing business as Sprague Manufacturing Co., San Francisco, Calif. Filed Jan. 15, 1923.

KUTSIT

Particular description of goods.—Soap Compounds—Namely, Special Hand Soap and Special Hand Sand Soap, Soap for Domestic Use, and Polishing Soap.
Claims use since Aug. 1, 1921.

Ser. No. 174,657. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DAVID GRIMES, doing business as Grimes Radio Engr. Co., New York, N. Y. Filed Jan. 16, 1923.

KASKADE

Trade-mark consists of the word "Kaskade."
Particular description of goods.—Radio Receiving Outfits.
Claims use since Dec. 22, 1922.

Ser. No. 174,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS H. LYDON, doing business as Jolo Laboratories, Denver, Colo. Filed Jan. 16, 1923.

JoLo

Particular description of goods.—Lotion to be Used on Hands and Face.
Claims use since Oct. 1, 1922.

Ser. No. 174,682. (CLASS 38. PRINTS AND PUBLICATIONS.) T. W. WOOD & SONS, Richmond, Va. Filed Jan. 16, 1923.

WOOD'S
SELECT-RITE
SEED CHART

Particular description of goods.—Section of a Catalogue Published Monthly.
Claims use since Jan. 1, 1923.

Ser. No. 174,693. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) O. A. HALE & Co., San Jose, Calif. Filed Jan. 17, 1923.



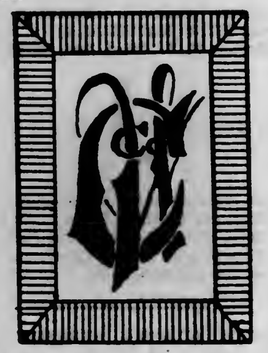
Particular description of goods.—Wool, Wool and Cotton Mixed, and Cotton Blankets.
Claims use since Nov. 9, 1922.

Ser. No. 174,700. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLIVETTE LABORATORIES, INC., Providence, R. I. Filed Jan. 17, 1923.



Particular description of goods.—Toilet Powder.
Claims use since January, 1922.

Ser. No. 174,714. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WOMBLE CHEMICAL COMPANY, Womble, Ark. Filed Jan. 17, 1923.



Particular description of goods.—Hair Tonic.
Claims use since December, 1922.

Ser. No. 174,725. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FEDERICO CICETTI, doing business as No-worry Chemical Co., Newark, N. J. Filed Jan. 18, 1923.



The words "Washing Fluid" are herewith disclaimed apart from the mark as shown.
Particular description of goods.—Washing Fluid.
Claims use since about Dec. 29, 1922.

Ser. No. 174,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGRA COMPANY, Detroit, Mich. Filed Jan. 19, 1923.

CI-MI

Particular description of goods.—Perfumes.
Claims use since Jan. 9, 1923.

Ser. No. 174,791. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Jan. 19, 1923.

Rellim

Particular description of goods.—Solid and Pneumatic Rubber and Fabric Tires.
Claims use since Aug. 3, 1922.

Ser. No. 174,792. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 19, 1923.

J

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since Sept. 1, 1918.

Ser. No. 174,793. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & CO., Matawan, N. J. Filed Jan. 19, 1923.

XXG

Particular description of goods.—Buffing Rouge Used in the Buffing and Polishing Trade to Produce a Bright Luster on Gold, Silver, Copper, Brass, Nickel, and Aluminum and Materials of Similar Character.
Claims use since Sept. 1, 1918.

Ser. No. 174,809. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AKIN MANUFACTURING COMPANY, Charlotte, N. C. Filed Jan. 20, 1923.

SHI-NALL

Particular description of goods.—Shoe Polish.
Claims use since September, 1922.

Ser. No. 174,850. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 20, 1923.

REGENOFLEX

Particular description of goods.—Radio Receiving Sets.
Claims use since Jan. 17, 1923.

Ser. No. 174,987. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN MARINE PAINT COMPANY, INC., New York, N. Y. Filed Jan. 24, 1923.

AMERICO

Particular description of goods.—Paints, Particularly Paste and Ready-Mixed Paints.
Claims use since on or about Aug. 1, 1922.

Ser. No. 175,065. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. ATLEE BURPEE CO., Philadelphia, Pa. Filed Jan. 25, 1923.

Sunnybrook

Particular description of goods.—Vegetable Seeds.
Claims use since 1904.

Ser. No. 175,066. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. ATLEE BURPEE CO., Philadelphia, Pa. Filed Jan. 25, 1923.

FLORADALE

Particular description of goods.—Flower Seeds.
Claims use since 1909.

Ser. No. 175,067. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. ATLEE BURPEE CO., Philadelphia, Pa. Filed Jan. 25, 1923.

FORDHOOK

Particular description of goods.—Vegetable, Flower, and Lawn-Grass Seeds and Bulbs.
Claims use since 1889.

Ser. No. 175,071. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) JOHN CYGANIEWICZ, Chicago, Ill. Filed Jan. 25, 1923.

Polish HAND BAGS Princess



No claim is made to the words "Hand Bags" apart from the mark shown on the drawing.
Particular description of goods.—Ladies' Hand Bags and Pocketbooks of Material Other Than of Precious Metal.
Claims use since Dec. 23, 1922.

Ser. No. 175,193. (CLASS 20. LINOLEUM AND OILED CLOTH.) T. B. GOODLATTE & SONS, (INC.), Clifton, N. J. Filed Jan. 27, 1923.



Particular description of goods.—Oilcloth.
Claims use since Feb. 21, 1922.

Ser. No. 175,300. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHARLOTTE ELECTRIC REPAIR CO., INC., Charlotte, N. C. Filed Jan. 30, 1923.

CAROLECTRIC

Particular description of goods.—Electric Motors, Generators, and Transformers.
Claims use since Dec. 1, 1922.

Ser. No. 175,302. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Jan. 30, 1923.

KINGSWEAR

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 15, 1923.

Ser. No. 175,314. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUNTER MANUFACTURING & COMMISSION CO., New York, N. Y. Filed Jan. 30, 1923.

ENOREEBEACH

Trade-mark consists of the word "Enoreebeach."
Particular description of goods.—Cotton Piece Goods.
Claims use since June 9, 1922.

Ser. No. 175,326. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. SCHEEL, New York, N. Y. Filed Jan. 30, 1923. Under ten-year proviso.

SCHEEL LAC

Particular description of goods.—Lacquer Compositions.
Claims use since 1892.

Ser. No. 175,381. (CLASS 39. CLOTHING.) FREDERICK M. BURNS, Mount Vernon, N. Y. Filed Feb. 1, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Ladies' Coats, Suits, Dresses, Outer Skirts, Blouses, and Hats.
Claims use since Dec. 1, 1922.

Ser. No. 175,413. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) STANDARD MOTOR PARTS COMPANY, Chicago, Ill. Filed Feb. 1, 1923.

Transcork

Particular description of goods.—Lining for Automobile Transmissions.
Claims use since on or about Oct. 1, 1922.

Ser. No. 175,453. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMERICAN SPORT SHOP, INC., New York, N. Y. Filed Feb. 3, 1923.

CANADIAN FLYER

Particular description of goods.—Sporting Goods—Namely, Ice Skates.
Claims use since Jan. 8, 1923.

Ser. No. 175,595. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BEVIN-WILCOX LINE COMPANY, East Hampton, Conn. Filed Feb. 6, 1923.

PILOT

Particular description of goods.—Fishlines.
Claims use since December, 1919.

Ser. No. 175,601. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) GENERAL BAKELITE COMPANY, Perth Amboy, N. J. Filed Feb. 6, 1923.

BAKELITE

Particular description of goods.—Pipes and Pipe Parts—Namely, Mouthpieces or Bits and Bowl Parts—and Cigar and Cigarette Holders.
Claims use since June 10, 1910.

Ser. No. 175,620. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 6, 1923.

BILTMORE

Particular description of goods.—Wardrobe Trunks.
Claims use since July 1, 1922.

Ser. No. 175,660. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LUCILLE B. KELLEY, doing business as Jimmy Boy Doll Co., Sidney, Ohio. Filed Feb. 7, 1923.

JIMMY BOY

Particular description of goods.—Dolls.
Claims use since Feb. 1, 1922.

Ser. No. 175,661. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KENT-COSTIKYAN TRADING COMPANY INC., New York, N. Y. Filed Feb. 7, 1923.

K-C

The lining in the drawing of the mark does not indicate color.
Particular description of goods.—Textile Rugs.
Claims use since about 1906.

Ser. No. 175,670. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y. Filed Feb. 7, 1923.

TU-TANK-HA-MEN

Particular description of goods.—Silk, Cotton, Wool Piece Goods, and Combinations Thereof.
Claims use since Dec. 2, 1922.

Ser. No. 175,691. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) VIRGINIA BLUE GEM COAL CORPORATION, Pennington Gap and North Fork, Va. Filed Feb. 7, 1923.

VIRGINIA BLUE GEM

Particular description of goods.—Steam and Domestic Coal.
Claims use since Sept. 15, 1919.

Ser. No. 175,709. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Feb. 8, 1923.

BERMICO

Particular description of goods.—Fiber Conduits for Electrical Purposes.
Claims use since on or about Jan. 20, 1923.

Ser. No. 175,714. (CLASS 2. RECEPTACLES.) THE DEFIANCE PRESSED STEEL COMPANY, Defiance, Ohio. Filed Feb. 8, 1923.

CLIPPER

Particular description of goods.—Bottle Containers or Cases, the Containers Being Preferably Made of Wood or Metal.
Claims use since on or about Jan. 15, 1905.

Ser. No. 175,759. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ASSOCIATED EXHIBITORS INC., Dover, Del., and New York, N. Y. Filed Feb. 9, 1923.

Encore Picture

Applicant disclaims its exclusive right to the use of the word "Picture" apart from the mark as shown in the drawing.
Particular description of goods.—Motion Pictures.
Claims use since Jan. 15, 1923.

Ser. No. 175,881. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL ELECTRIC MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Feb. 10, 1923.

SYNTRON

Particular description of goods.—Electric Hammers.
Claims use since Dec. 1, 1922.

Ser. No. 175,949. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SAFETY SLED COMPANY, INC., Mount Jewett, Pa. Filed Feb. 12, 1923.

The Safety

Particular description of goods.—Sleds.
Claims use since Sept. 10, 1909.

Ser. No. 176,023. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE H. E. M. MFG. CO., Hamilton, Ohio. Filed Feb. 14, 1923.

CHUMMY

Particular description of goods.—Toy Coasters.
Claims use since Aug. 31, 1921.

Ser. No. 176,052. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WERTHEIMER BROTHERS, New York, N. Y. Filed Feb. 14, 1923.

SILVERGLOW

Particular description of goods.—Ribbons by the Yard and in the Piece.
Claims use since Feb. 2, 1923.

Ser. No. 176,055. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WINCHESTER COMPANY, New Haven, Conn. Filed Feb. 14, 1923.

RIP-LOCH

Particular description of goods.—Golf Bags.
Claims use since Apr. 11, 1922.

Ser. No. 176,062. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BRAW LADDIE GOLF COMPANY, Oakland, Calif. Filed Feb. 15, 1923.

BRAW LADDIE

Particular description of goods.—Golf Clubs.
Claims use since Dec. 14, 1922.

Ser. No. 176,067. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 15, 1923.

AUK

Particular description of goods.—Carbon Black.
Claims use since October, 1916.

Ser. No. 176,069. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 15, 1923.

KALISTA

Particular description of goods.—Carbon Black.
Claims use since Feb. 20, 1905.

Ser. No. 176,070. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 15, 1923.

CIM

Particular description of goods.—Carbon Black.
Claims use since September, 1922.

Ser. No. 176,071. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 15, 1923.

DAR

Particular description of goods.—Carbon Black.
Claims use since December, 1922.

Ser. No. 176,166. (CLASS 2. RECEPTACLES.) DES LAURIERS METAL PRODUCTS CO. INC., St. Paul, Minn. Filed Feb. 17, 1923.



The representation of a milk can appearing on the drawing does not form a part of the registration sought apart from the mark shown on the drawing.
Particular description of goods.—Milk-Shipping Cans and Cans Used for Packing and Shipping Ice Cream.
Claims use since January, 1919.

Ser. No. 176,236. (CLASS 17. TOBACCO PRODUCTS.) WESTERN TOBACCO COMPANY, INC., New York, N. Y. Filed Feb. 17, 1923.

Kohar

Particular description of goods.—Cigarettes.
Claims use since Feb. 1, 1923.

Ser. No. 176,300. (CLASS 39. CLOTHING.) VAUGHAN-TOWLE CO., Lynn, Mass. Filed Feb. 19, 1923.

KUSH-IN-EZE

Trade-mark "Kush-In-Eze."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since July 19, 1922.

Ser. No. 176,344. (CLASS 39. CLOTHING.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Feb. 20, 1923.

LASTIC

Particular description of goods.—Rubber Boots and Shoes, Rubber Overshoes, and Rubber-Soled Canvas Shoes.
Claims use since Mar. 11, 1922.

Ser. No. 176,405. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed Feb. 21, 1923.

GRANT'S
GOLDEN GLOW

Particular description of goods.—Furniture Polish.
Claims use since Feb. 3, 1923.

Ser. No. 176,634. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARINETTE ELECTRIC CORPORATION, Marinette, Wis. Filed Feb. 26, 1923.

Little Tattler

Trade-mark "Little Tattler."
Particular description of goods.—Radio Receiving Sets.
Claims use since Nov. 1, 1922.

Ser. No. 176,637. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ARNOLD W. MILLER, doing business as Golf Progress Company, Columbus, Ohio. Filed Feb. 26, 1923.

the flapper

Particular description of goods.—Golf-Stroke Practice and Exercising Device.
Claims use since Feb. 1, 1923.

Ser. No. 176,705. (CLASS 39. CLOTHING.) HARRY E. ADAMS, Haverhill, Mass. Filed Feb. 28, 1923.

TUT

Particular description of goods.—Women's Sandals of Leather and Textile Material.
Claims use since Feb. 1, 1923.

Ser. No. 176,706. (CLASS 39. CLOTHING.) HARRY E. ADAMS, Haverhill, Mass. Filed Feb. 28, 1923.

ANKH

Particular description of goods.—Women's Sandals of Leather and Textile Material.
Claims use since Feb. 1, 1923.

Ser. No. 176,707. (CLASS 39. CLOTHING.) HARRY E. ADAMS, Haverhill, Mass. Filed Feb. 28, 1923.

AMEN

Particular description of goods.—Women's Sandals of Leather and Textile Material.
Claims use since Feb. 1, 1923.

Ser. No. 176,708. (CLASS 39. CLOTHING.) HARRY E. ADAMS, Haverhill, Mass. Filed Feb. 28, 1923.

Tut-Ankh-Amen

Particular description of goods.—Women's Sandals of Leather and Textile Material.
Claims use since Feb. 1, 1923.

Ser. No. 176,723. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Feb. 28, 1923.

BACHELOR

Particular description of goods.—Tobacco Pipes.
Claims use since July 1, 1922.

Ser. No. 176,724. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Feb. 28, 1923.

BRIGADIER

Particular description of goods.—Tobacco Pipes.
Claims use since July 1, 1922.

Ser. No. 176,725. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Feb. 28, 1923.

CHUM

Particular description of goods.—Tobacco Pipes.
Claims use since Jan. 10, 1922.

Ser. No. 176,726. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, Engalnd. Filed Feb. 28, 1923.

DURAX

Particular description of goods.—Tobacco Pipes.
Claims use since Jan. 10, 1922.

Ser. No. 176,727. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Feb. 28, 1923.

ESQUIRE

Particular description of goods.—Tobacco Pipes.
Claims use since Jan. 10, 1922.

Ser. No. 176,728. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Feb. 28, 1923.

LOTUS

Particular description of goods.—Tobacco Pipes.
Claims use since July 1, 1922.

Ser. No. 176,781. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LAWRENCE E. BROUGHER, McFarland, Calif. Filed Mar. 1, 1923.

E SHINE POLISH Z

No claim is made herein to the exclusive use of the words "Shine" and "Polish" or either of them apart from the trade-mark shown in the drawing.
Particular description of goods.—Polishes for Automobiles and Furniture.
Claims use since Feb. 8, 1923.

Ser. No. 176,860. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y. Filed Mar. 2, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Silk Ribbons in the Piece.
Claims use since Feb. 19, 1923.

Ser. No. 176,864. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 2, 1923.

AUTOVALVE

Particular description of goods.—Lightning Arresters.
Claims use since May 15, 1922.

Ser. No. 176,943. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Mar. 5, 1923.

ARAB

Particular description of goods.—Lead Pencils.
Claims use since about Dec. 1, 1922.

Ser. No. 177,030. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASIATIC IMPORT CO., INC., New York, N. Y. Filed Mar. 6, 1923.

SPARK PLUG

Particular description of goods.—Toy Animals.
Claims use since about Dec. 15, 1922.

Ser. No. 177,067. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CLAUDE E. BOWERS, doing business as Bowers Manufacturing Company, Los Angeles, Calif. Filed Mar. 7, 1923.

SPEED BUG

Particular description of goods.—Self-Propelled Toy Vehicles.
Claims use since about Nov. 1, 1922.

Ser. No. 177,109. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RUSSELL PLAYING CARD CO., Milltown, N. J. Filed Mar. 7, 1923.

AUTOCRAT

Particular description of goods.—Playing Cards.
Claims use since Dec. 9, 1913.

Ser. No. 177,147. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Mar. 8, 1923.

Tut-Amon

Particular description of goods.—Ratine in the Piece.
Claims use since Mar. 1, 1923.

Ser. No. 177,158. (CLASS 37. PAPER AND STATIONERY.) THE ALLING & CORY CO., Rochester, N. Y. Filed Mar. 9, 1923.

CORDUROY

Particular description of goods.—Wrapping Paper.
Claims use since July, 1917.

Ser. No. 177,183. (CLASS 15. OILS AND GREASES.) GLISTRIDIS, FROSSO & CO., New York, N. Y. Filed Mar. 9, 1923.

ERKOS

Trade-mark consists of the word "Erkos."
Particular description of goods.—Candies.
Claims use since Feb. 15, 1923.

Ser. No. 177,228. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK O. KING, Chicago, Ill. Filed Mar. 10, 1923.

UNCLE WALT

Particular description of goods.—Dolls.
Claims use since Feb. 1, 1923.

Ser. No. 177,317. (CLASS 2. RECEPTACLES.) THE NATIONAL PAPER CAN COMPANY, Milwaukee, Wis. Filed Mar. 12, 1923.

NAPASPIRAL

Particular description of goods.—Paper Cans.
Claims use since Dec. 1, 1922.

Ser. No. 177,451. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Mar. 14, 1923.

DOUBLE COVER

Particular description of goods.—Liquid and Paste Paints.
Claims use since Oct. 28, 1922.

Ser. No. 177,477. (CLASS 17. TOBACCO PRODUCTS.) OTTO EISENLOHR & BROS. INCORPORATED, Philadelphia, Pa. Filed Mar. 15, 1923.



Particular description of goods.—Cigars.
Claims use since Apr. 2, 1921.

Ser. No. 177,517. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BITTER BROTHERS, New York, N. Y. Filed Mar. 15, 1923.

MUMMY

Particular description of goods.—Vanity Cases and Ladies' Hand Bags.
Claims use since Feb. 24, 1923.

Ser. No. 177,647. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BERRY BROTHERS, Detroit, Mich. Filed Mar. 19, 1923.

GRANITUM

Particular description of goods.—Varnishes.
Claims use since Jan. 1, 1893.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 24, 1923.

167,010. BAKERS' AND CONFECTIONERS' SUPPLIES. THOMAS F. NAUGHTIN, doing business as T. F. Naughtin Co., Omaha, Nebr.
Filed April 22, 1922. Serial No. 162,762. PUBLISHED JANUARY 30, 1923.

167,011. TOYS CONSTRUCTED OF METAL AND WOOD—TO WIT, PUSH SCOOTERS, WITH TWO WHEELS, TRICYCLES, VELOCIPEDES, GOCARTS, TEETERS, AND WAGONS. METALLIC INDUSTRIES, INC., St. Louis, Mo.
Filed April 22, 1922. Serial No. 162,757. PUBLISHED JANUARY 30, 1923.

167,012. SUGAR WAFERS. ITEN BISCUIT CO., Omaha, Nebr.
Filed April 22, 1922. Serial No. 162,740. PUBLISHED JANUARY 30, 1923.

167,013. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS SOFT DRINK. THE R. G. COURT CO. INC., Covington, Ky.
Filed April 21, 1922. Serial No. 162,666. PUBLISHED AUGUST 29, 1922.

167,014. CANDY. MAPLE PRODUCTS CO., Brooklyn, N. Y.
Filed April 18, 1922. Serial No. 162,498. PUBLISHED JANUARY 30, 1923.

167,015. SWEET POTATOES IN THEIR NATURAL STATE. ALEXANDRIA POTATO CURING COMPANY, INC., Alexandria, La.
Filed April 18, 1922. Serial No. 162,475. PUBLISHED JANUARY 30, 1923.

167,016. WHEAT FLOUR. STROUD-DOCKUM GROCERY CO., Corsicana, Tex.
Filed April 15, 1922. Serial No. 162,354. PUBLISHED JANUARY 30, 1923.

167,017. SHORTENING OR FAT COMPOSED OF FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. THE SOUTHERN COTTON OIL COMPANY, Jersey City, N. J.; New York, N. Y.; New Orleans, La.; Savannah, Ga.; Chicago, Ill.
Filed April 12, 1922. Serial No. 162,215. PUBLISHED JANUARY 30, 1923.

167,018. WHEAT FLOUR. WILLIAM J. MCDONALD, doing business as Krumm & McDonald Co., Columbus, Ohio.
Filed April 12, 1922. Serial No. 162,191. PUBLISHED JANUARY 30, 1923.

167,019. CARBONATED GRAPE DRINK. GOOD-GRAPE COMPANY, Chattanooga, Tenn.
Filed April 12, 1922. Serial No. 162,168. PUBLISHED JANUARY 16, 1923.

167,020. SELF-RISING WHEAT FLOUR. PH. H. POSTEL MILLING CO., Mascoutah, Ill.
Filed April 11, 1922. Serial No. 162,134. PUBLISHED DECEMBER 12, 1922.

167,021. CRULLERS. S. & S. MELLOROLL COMPANY, Scranton, Pa.
Filed April 11, 1922. Serial No. 162,133. PUBLISHED DECEMBER 12, 1922.

167,022. STOCK FEED, MORE SPECIFICALLY WHEAT FEED. MODERN FLOUR MILLS, Macon, Ga.
Filed April 11, 1922. Serial No. 162,128. PUBLISHED DECEMBER 12, 1922.

167,023. BAKERY PRODUCTS—VIZ, COOKIES. MATTHAEI BAKING CO., Tacoma, Wash.
Filed April 10, 1922. Serial No. 162,091. PUBLISHED DECEMBER 12, 1922.

167,024. EGGS. THE FAIRMONT CREAMERY CO., Omaha, Nebr.
Filed April 10, 1922. Serial No. 161,983. PUBLISHED DECEMBER 12, 1922.

167,025. OLEOMARGARINE. E. A. STEVENSON & CO. INC., Boonton, N. J.
Filed April 7, 1922. Serial No. 161,899. PUBLISHED DECEMBER 12, 1922.

167,026. EGGS IN THEIR NATURAL STATE. FRED SUSIE, Volga, Iowa.
Filed April 6, 1922. Serial No. 161,864. PUBLISHED DECEMBER 12, 1922.

167,027. CONFECTION FOR COATING OR COVERING FOR CANDY, BISCUITS, CAKES, PASTRY, AND FROZEN DAINTIES. WHITE-STOKES COMPANY, INC., Chicago, Ill.
Filed April 5, 1922. Serial No. 161,812. PUBLISHED JANUARY 30, 1923.

167,028. BUTTER. MILTON DAIRY COMPANY, St. Paul, Minn.
Filed April 3, 1922. Serial No. 161,691. PUBLISHED JANUARY 30, 1923.

167,029. WHEAT FLOUR. FEDERAL MILL & ELEVATOR CO., INC., Lockport, N. Y.
Filed April 3, 1922. Serial No. 161,680. PUBLISHED DECEMBER 12, 1922.

167,030. ATHLETIC OUTFITS. THOS. E. WILSON & CO., Chicago, Ill.
Filed September 30, 1922. Serial No. 170,169. PUBLISHED JANUARY 30, 1923.

167,031. MOUNTS FOR PHOTOGRAPHIC NEGATIVES. IRVING KULIK, doing business as Index-Ray Mount Co., Brooklyn, N. Y.
Filed September 30, 1922. Serial No. 170,143. PUBLISHED JANUARY 16, 1923.

167,032. TOOTHBRUSHES. WILLIAM T. PALMER & COMPANY, INC., New York, N. Y.
Filed October 25, 1922. Serial No. 171,183. PUBLISHED JANUARY 9, 1923.

167,033. TOYS, PARTICULARLY TOY HECTOGRAPHS. THE MAGI-GRAPH CO., New York, N. Y.
Filed October 23, 1922. Serial No. 171,092. PUBLISHED JANUARY 16, 1923.

167,034. CHILDREN'S TOY WAGONS. THE FAIR, Chicago, Ill.
Filed October 20, 1922. Serial No. 170,973. PUBLISHED FEBRUARY 6, 1923.

167,035. PARLOR BOARD GAME PLAYED WITH MARKERS WHICH ARE MOVED TO VARIOUS STATIONS ON THE BOARD. ROSENWALD-MILIUS CO., INC., New York, N. Y.
Filed October 19, 1922. Serial No. 170,955. PUBLISHED JANUARY 16, 1923.

167,036. GOLF BALLS. JOHN WANAMAKER, NEW YORK, New York, N. Y.
Filed October 18, 1922. Serial No. 170,915. PUBLISHED JANUARY 16, 1923.

167,037. WINDSHIELD CLEANERS OF THE SQUEEGEE OR MECHANICAL TYPES. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed October 18, 1922. Serial No. 170,909. PUBLISHED FEBRUARY 6, 1923.

167,038. COTTON THREAD AND YARN. MANHASSET MANUFACTURING COMPANY, Providence, R. I.
Filed October 18, 1922. Serial No. 170,889. PUBLISHED JANUARY 30, 1923.

167,039. GOLF BALLS. EDWARD E. MARSHALL, doing business as Huntingdon Manufacturing Company, Philadelphia, Pa.
Filed October 18, 1922. Serial No. 170,884. PUBLISHED JANUARY 9, 1923.

167,040. GOLF BALLS. EDWARD E. MARSHALL, doing business as Huntingdon Manufacturing Company, Philadelphia, Pa.
Filed October 18, 1922. Serial No. 170,883. PUBLISHED JANUARY 9, 1923.

167,041. CIGARS. ARANGO Y ARANGO, Tampa, Fla.
Filed October 13, 1922. Serial No. 170,676. PUBLISHED JANUARY 16, 1923.

167,042. SANITARY BELTS AND SHIELDS. HYMAN USDIN, doing business as San-It Ruber Company, New York, N. Y.
Filed October 11, 1922. Serial No. 170,598. PUBLISHED JANUARY 9, 1923.

167,043. SHEET GLASS. PENNSYLVANIA WIRE GLASS COMPANY, Philadelphia, Pa.
Filed October 11, 1922. Serial No. 170,596. PUBLISHED JANUARY 30, 1923.

167,044. SILK PIECE GOODS. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed October 6, 1922. Serial No. 170,376. PUBLISHED JANUARY 30, 1923.

167,045. BOOK MATCHES. WORLD MATCH CORPORATION, New York, N. Y.
Filed October 4, 1922. Serial No. 170,321. PUBLISHED JANUARY 30, 1923.

167,046. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., Astoria and New York, N. Y.
Filed October 4, 1922. Serial No. 170,311. PUBLISHED JANUARY 30, 1923.

167,047. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., Astoria and New York, N. Y.
Filed October 4, 1922. Serial No. 170,310. PUBLISHED JANUARY 30, 1923.

167,048. NONALCOHOLIC, MALTLESS, FRUIT-FLAVORED CONCENTRATE FOR BEVERAGE PURPOSES. PREMIER MALT PRODUCTS COMPANY OF OHIO, INC., Chicago, Ill., and Steubenville, Ohio.
Filed October 2, 1922. Serial No. 170,213. PUBLISHED JANUARY 30, 1923.

167,049. ATHLETIC OUTFITS. THOS. E. WILSON & Co., Chicago, Ill.
Filed September 30, 1922. Serial No. 170,170. PUBLISHED JANUARY 30, 1923.

167,050. YARN. FIRESIDE YARNS COMPANY, Philadelphia, Pa.
Filed April 3, 1922. Serial No. 161,676. PUBLISHED FEBRUARY 6, 1923.

167,051. YEAST, YEAST FOOD, AND OTHER BAKERY PRODUCTS. WARD BAKING COMPANY, New York, N. Y.
Filed April 1, 1922. Serial No. 161,661. PUBLISHED JANUARY 30, 1923.

167,052. RYE BREAD, WHEAT BREAD, AND FRENCH BREAD. A. YOST & SON, Johnstown, Pa.
Filed March 31, 1922. Serial No. 161,611. PUBLISHED DECEMBER 26, 1922.

167,053. PICKLES, CATCHUP, TOMATO PASTE, VINEGAR, MUSTARD, PEPPER SAUCE, SWEET GHERKINS, CHOWCHOW, SWEET RELISH, AND SAUERKRAUT. WILLIAMS FOOD CO., San Francisco, Calif.
Filed March 31, 1922. Serial No. 161,603. PUBLISHED FEBRUARY 6, 1923.

167,054. CHEESE. J. L. KRAFT & BROS. CO., Chicago, Ill.
Filed March 17, 1922. Serial No. 160,814. PUBLISHED JANUARY 30, 1923.

167,055. BUTTER, CHEESE, AND EGGS. CHRISTOPHER F. NEWMAN, Springfield, Mass.
Filed March 16, 1922. Serial No. 160,772. PUBLISHED DECEMBER 26, 1922.

167,056. METAL-COVERED DOORS AND WINDOWS. EMPIRE FIRE-PROOF DOOR CO., INC., New York, N. Y.
Filed March 16, 1922. Serial No. 160,756. PUBLISHED NOVEMBER 7, 1922.

167,057. FRESH APPLES, FRESH POTATOES, FRESH CREAM, CATTLE. ROBERT FORBES PERKINS, Framingham Center, Mass.
Filed March 15, 1922. Serial No. 160,721. PUBLISHED JANUARY 30, 1923.

167,058. WINDOW WIPERS. OSCAR F. KEYDEL, doing business as The Keydel Co., Detroit, Mich.
Filed March 13, 1922. Serial No. 160,612. PUBLISHED FEBRUARY 6, 1923.

167,059. TYPEWRITER PAPER. WILLIAM H. KING, Jr., East Orange, N. J., and New York, N. Y.
Filed March 10, 1922. Serial No. 160,496. PUBLISHED NOVEMBER 14, 1922.

167,060. POULTRY FOOD. THE STANDARD LIME & STONE CO., Martinsburg, W. Va., and Baltimore, Md.
Filed March 7, 1922. Serial No. 160,305. PUBLISHED FEBRUARY 6, 1923.

167,061. HAMS AND BACON. CORKRAN, HILL & CO. INC., Baltimore, Md.
Filed March 6, 1922. Serial No. 160,235. PUBLISHED DECEMBER 26, 1922.

167,062. WHEAT FLOUR. DUNLOP MILLING CO., Clarksville, Tenn.
Filed March 2, 1922. Serial No. 160,051. PUBLISHED DECEMBER 26, 1922.

167,063. WHEAT FLOUR. EDW. G. SANDERS, doing business as Cabinet Milling Co., Nashville, Tenn.
Filed March 1, 1922. Serial No. 160,034. PUBLISHED DECEMBER 19, 1922.

167,064. WHEAT FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Texas.
Filed February 27, 1922. Serial No. 159,896. PUBLISHED DECEMBER 26, 1922.

167,065. GOLF CLUBS AND GOLF BALLS. THE CRAWFORD MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed February 20, 1922. Serial No. 159,558. PUBLISHED JANUARY 9, 1923.

167,066. FROZEN CONFECTIONS, ICE CREAM, AND ICES. THE TAWNEY ICE CREAM COMPANY, Barberton, Ohio.
Filed February 16, 1922. Serial No. 159,436. PUBLISHED JANUARY 30, 1923.

167,067. ELECTRICAL CONDENSERS. WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass.
Filed January 31, 1922. Serial No. 158,693. PUBLISHED MAY 9, 1922.

167,068. COTTONSEED CAKE, COTTONSEED MEAL, SALAD OIL, AND PSY OIL. CALIFORNIA COTTON OIL COMPANY, Los Angeles, Calif.
Filed January 23, 1922. Serial No. 158,293. PUBLISHED NOVEMBER 7, 1922.

167,069. COFFEES AND TEAS. VICTORIA C. LINDSTROM, doing business as Potor Coffee Co., New York, N. Y.
Filed January 17, 1922. Serial No. 158,050. PUBLISHED FEBRUARY 6, 1923.

167,070. FISHING RODS AND REELS. THE H. L. LEONARD ROD CO., New York, N. Y.
Filed November 21, 1922. Serial No. 172,836. PUBLISHED FEBRUARY 6, 1923.

167,071. DOLLS. THE MISSES TEBBETTS, Pittsburgh, Pa.
Filed November 18, 1922. Serial No. 172,244. PUBLISHED JANUARY 30, 1923.

167,072. PLAYING CARDS. RUSSELL PLAYING CARD CO., Militown, N. J.
Filed November 17, 1922. Serial No. 172,176. PUBLISHED JANUARY 30, 1923.

167,073. PREPARATION FOR POLISHING AND CLEANING AUTOMOBILES, PIANOS, PHONOGRAPHS, AND FURNITURE OR ANY VARNISHED OR ENAMELED SURFACE. JULIUS C. WILMOT, doing business as Stayshyn Co., Milton, Mass.
Filed November 16, 1922. Serial No. 172,139. PUBLISHED JANUARY 9, 1923.

167,074. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. JACK BEVERAGE COMPANY, New York, N. Y.
Filed November 16, 1922. Serial No. 172,107. PUBLISHED FEBRUARY 6, 1923.

167,075. RIBBONS IN THE PIECE. JOHNSON, COWDIN & CO., INC., New York, N. Y., assignor to Johnson-Cowdin-Emmerich, Inc., New York, N. Y., a Corporation of New York.
Filed December 17, 1921. Serial No. 156,834. PUBLISHED JANUARY 30, 1923.

167,076. FLOUR MADE OF CORNSTARCH, CARBONATE OF MAGNESIA, VITAMINES, AND TO BE MIXED WITH WHEAT FLOUR. GEORGE E. KELLER LABORATORIES, Huxley, Iowa.
Filed December 9, 1921. Serial No. 156,495. PUBLISHED FEBRUARY 6, 1923.

167,077. GELATIN. PURITAN GELATIN COMPANY, Boston and Marblehead, Mass.
Filed December 7, 1921. Serial No. 156,403. PUBLISHED JANUARY 30, 1923.

167,078. CERTAIN NAMED CANNED FOODS. J. C. PERRY & COMPANY, Indianapolis, Ind.
Filed December 7, 1921. Serial No. 156,401. PUBLISHED DECEMBER 26, 1922.

167,079. MAGAZINE PENCILS. R. & G. Co., Attleboro, Mass.
Filed November 23, 1921. Serial No. 155,830. PUBLISHED FEBRUARY 6, 1923.

167,080. HOBBYHORSES, CHILDREN'S AUTOMOBILES, AND AEROPLANE TOYS. JACOB K. SELENKOW, Brooklyn, N. Y.
Filed November 28, 1921. Serial No. 156,031. PUBLISHED FEBRUARY 6, 1923.

167,081. PLAYGROUND APPARATUS, IN PARTICULAR CLIMBING FRAMES. JUNGLEGYM, INC., Chicago, Ill.
Filed November 14, 1921. Serial No. 155,408. PUBLISHED JANUARY 30, 1923.

167,082. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES AND SIRUPS AND CONCENTRATES FOR MAKING THE SAME. CITRUS PRODUCTS COMPANY, Chicago, Ill.
Filed October 24, 1921. Serial No. 154,483. PUBLISHED AUGUST 22, 1922.

167,083. WHEAT FLOUR. MORROW MILLING COMPANY, Carthage, Mo.
Filed October 22, 1921. Serial No. 154,456. PUBLISHED JANUARY 30, 1923.

167,084. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. PODESTA IMPORT COMPANY, San Francisco, Calif.
Filed September 3, 1921. Serial No. 152,586. PUBLISHED DECEMBER 26, 1922.

167,085. BREAD. GENERAL BAKING COMPANY, New York, N. Y.
Filed September 1, 1921. Serial No. 152,465. PUBLISHED DECEMBER 19, 1922.

167,086. CONCENTRATED LIQUID MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed August 10, 1921. Serial No. 151,633. PUBLISHED OCTOBER 11, 1921.

167,087. BREAD, CAKE, WHEAT FLOUR, CORN FLOUR, RYE FLOUR, AND YEAST. WARD BAKING COMPANY, New York, N. Y.
Filed June 3, 1921. Serial No. 148,637. PUBLISHED DECEMBER 19, 1922.

167,088. OFFICE SUPPLIES. AKTIEBOLAGET GALCO, Stockholm, Sweden.
Filed May 3, 1921. Serial No. 147,149. PUBLISHED FEBRUARY 6, 1923.

167,089. GAME EMPLOYING A BOARD HAVING DESIGNATED THEREON DIFFERENT POSITIONS TO BE OCCUPIED BY "PIECES" AND ALSO HAVING DESIGNATED THEREON THE PATHS ALONG WHICH THE "PIECES" ARE TO BE MOVED FROM ANY ONE POSITION TO THE NEXT ADJACENT POSITION. MARTIN C. NEUNER, Los Angeles, Calif.
Filed January 12, 1921. Serial No. 142,162. PUBLISHED JANUARY 9, 1923.

167,090. TABLE SIRUP AND MOLASSES. DUNBAR MOLASSES & SIRUP CO., New Orleans, La.
Filed June 15, 1922. Serial No. 165,529. PUBLISHED FEBRUARY 6, 1923.

167,091. SUGAR-COATED CHEWING GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed June 19, 1922. Serial No. 165,734. PUBLISHED FEBRUARY 6, 1923.

167,092. CANNED VEGETABLES—VIZ, SWEET CORN, TOMATOES, PEAS, RED KIDNEY BEANS, GREEN BEANS, WAX BEANS, PUMPKIN, SAUERKRAUT, PREPARED MUSTARD, COFFEE, ETC. THE COPPS CO., Stevens Point,, Wis.
Filed June 23, 1922. Serial No. 165,916. PUBLISHED JANUARY 30, 1923.

167,093. RIBBONS OF SILK AND ARTIFICIAL SILK, BOLT, SPOOL, AND BANDED FLAT FOLD. MAPELE SILK MANUFACTURING CO. INC., Paterson, N. J., and New York, N. Y.
Filed July 12, 1922. Serial No. 166,781. PUBLISHED JANUARY 30, 1923.

167,094. CANNED SALMON. ALASKA PACKERS ASSOCIATION, San Francisco, Calif.
Filed July 13, 1922. Serial No. 166,804. PUBLISHED JANUARY 30, 1923.

167,095. BEVERAGES. THE FERBO COMPANY, Pittsburgh, Pa.
Filed July 17, 1922. Serial No. 167,007. PUBLISHED JANUARY 9, 1923.

167,096. CIGARS. M. VALLE Y CA., INC., New York, N. Y.
Filed July 17, 1922. Serial No. 167,032. PUBLISHED JANUARY 9, 1923.

167,097. COFFEE. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed July 21, 1922. Serial No. 167,188. PUBLISHED JANUARY 23, 1923.

167,098. WHEAT FLOUR. STANARD-TILTON MILLING CO., St. Louis, Mo.
Filed July 26, 1922. Serial No. 167,430. PUBLISHED DECEMBER 12, 1922.

167,099. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND COMPOUNDS AND CONCENTRATES FOR MANUFACTURING THE SAME. CITRUS PRODUCTS COMPANY, Chicago, Ill.
Filed July 29, 1922. Serial No. 167,555. PUBLISHED JANUARY 30, 1923.

167,100. WHEAT FLOUR. ALBERS BROS. MILLING CO., Seattle, Wash.
Filed August 28, 1922. Serial No. 168,744. PUBLISHED JANUARY 23, 1923.

167,101. CURTAINS, DRAPERIES, AND AN OPEN-MESH NETTED FABRIC FOR USE IN MAKING THE SAID CURTAINS AND DRAPERIES, THE SAID CURTAINS AND DRAPERIES BEING FORMED OF A BASE OF OPEN-MESH FABRIC AND AN INTERWOVEN FILLING. FREDERICK E. STROHMEIER, Ashland, Pa.
Filed September 5, 1922. Serial No. 169,091. PUBLISHED FEBRUARY 6, 1923.

167,102. RADIO DIALS, KNOBS, KEYS, RECEIVERS, HEAD SETS, VARIOMETERS AND VARIOCOUPLERS; ELECTRICALLY-OPERATED BELLS, BUZZERS, AND SOUNDERS, ETC. MANHATTAN ELECTRICAL SUPPLY CO. INC., New York, N. Y.
Filed September 6, 1922. Serial No. 169,134. PUBLISHED FEBRUARY 13, 1923.

167,103. CLOTHS AND PIECE GOODS OF WOOL, WORSTED, AND HAIR AND CLOTHS AND PIECE GOODS MADE OF A COMBINATION OF TWO OR MORE OF THOSE FIBERS. PRIESTLEYS, LIMITED, Bradford, England, assignor to B. Priestleys & Co. Inc., a Corporation of New York.
Filed September 13, 1922. Serial No. 169,422. PUBLISHED FEBRUARY 6, 1923.

167,104. CERTAIN NAMED SPORTING GOODS. THE P. GOLDSMITH SONS COMPANY, Cincinnati, Ohio.
Filed September 15, 1922. Serial No. 169,478. PUBLISHED JANUARY 9, 1923.

167,105. ENGLISH-FINISH BOOK PAPER, SUPER-CALENDER BOOK PAPER. WEST VIRGINIA PULP & PAPER CO., New York, N. Y.
Filed September 16, 1922. Serial No. 169,570. PUBLISHED JANUARY 30, 1923.

167,106. DRY COMPOUND FOR MAKING A NONALCOHOLIC, MALTLESS BEVERAGE FLAVORED WITH ORANGE, LEMON, RASPBERRY, STRAWBERRY, LOGANBERRY, WILD CHERRY, AND GRAPE. GOLDEN GRAIN JUICE CO., Minneapolis, Minn.
Filed September 18, 1922. Serial No. 169,588. PUBLISHED JANUARY 9, 1923.

167,107. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND THE SIRUP FOR MAKING THE SAME. J. A. FLEMING, doing business as Atlanta Bottling Works, Atlanta, Ga.
Filed September 19, 1922. Serial No. 169,673. PUBLISHED JANUARY 30, 1923.

167,108. BROAD SILKS IN THE PIECE. STEHLI SILKS CORPORATION, New York, N. Y.
Filed September 21, 1922. Serial No. 169,789. PUBLISHED JANUARY 30, 1923.

167,109. PLAY BALLS AND BEACH BALLS, AN INFLATABLE BALL SHAPED SOMETHING LIKE A FOOTBALL OR BALLOON AND LIGHT ENOUGH TO BE USED BY CHILDREN IN PLAY AND ESPECIALLY IN PLAYING ON SANDS AT A BEACH. KNOXALL NOVELTIES, INC., New York, N. Y.
Filed September 23, 1922. Serial No. 169,857. PUBLISHED FEBRUARY 6, 1923.

167,110. SUGAR WAFERS. UNION BISCUIT CO., St. Louis, Mo.
Filed April 22, 1922. Serial No. 162,785. PUBLISHED DECEMBER 12, 1922.

167,111. JELLY, APPLEBUTTER, AND FRUIT PRESERVES. BLANKE-BAER EXTRACT & PRESERVING COMPANY, St. Louis, Mo.
Filed May 4, 1922. Serial No. 163,816. PUBLISHED JANUARY 30, 1923.

167,112. OLEOMARGARINE. MORRIS & COMPANY, Chicago, Ill.
Filed May 4, 1922. Serial No. 163,346. PUBLISHED DECEMBER 19, 1922.

167,113. OLEOMARGARINE. MORRIS & COMPANY, Chicago, Ill.
Filed May 4, 1922. Serial No. 163,347. PUBLISHED DECEMBER 19, 1922.

167,114. TOY BANKS. THE JOHN HUGO MANUFACTURING COMPANY, New Haven, Conn.
Filed May 8, 1922. Serial No. 163,519. PUBLISHED JANUARY 30, 1923.

167,115. BATH AND TOOTH BRUSHES. GEO. B. GIBSON CO., New York, N. Y.
Filed May 17, 1922. Serial No. 163,978. PUBLISHED FEBRUARY 6, 1923.

167,116. NONALCOHOLIC MALTLESS BEVERAGE SOLD AS SOFT DRINK. CHARLES F. MARTIN, Fairmont, W. Va.
Filed May 22, 1922. Serial No. 164,254. PUBLISHED JULY 25, 1922.

167,117. FRESH CANTALOUPES AND FRESH PEARS. G. M. H. WAGNER & SONS, Chicago, Ill.
Filed June 1, 1922. Serial No. 164,790. PUBLISHED FEBRUARY 6, 1923.

167,118. WHEAT FLOUR. ALBERS BROS. MILLING Co., Seattle, Wash.
Filed June 3, 1922. Serial No. 164,853. PUBLISHED DECEMBER 19, 1922.

167,119. BUTTER AND EGGS. GREEN & COMPANY, Chicago, Ill.
Filed June 3, 1922. Serial No. 164,900. PUBLISHED DECEMBER 19, 1922.

167,120. BREAKFAST CEREAL. KEHLOR FLOUR MILLS CO., St. Louis, Mo.
Filed June 3, 1922. Serial No. 164,922. PUBLISHED DECEMBER 19, 1922.

167,121. BREAKFAST CEREAL. PHOSPHO FOOD CO., INC., Los Angeles, Calif.
Filed June 3, 1922. Serial No. 164,950. PUBLISHED JANUARY 2, 1923.

167,122. CORN FLAKES. PRICE FOOD PRODUCTS CORPORATION, Minneapolis, Minn.
Filed June 3, 1922. Serial No. 164,951. PUBLISHED DECEMBER 19, 1922.

167,123. ROLLED OATS. WIMBERLEY GROCER CO., Jonesboro, Ark.
Filed June 3, 1922. Serial No. 164,984. PUBLISHED DECEMBER 19, 1922.

167,124. WHEAT FLOUR. GLOBE GRAIN & MILLING Co., Los Angeles, Calif.
Filed June 12, 1922. Serial No. 165,369. PUBLISHED DECEMBER 12, 1922.

167,125. WHEAT FLOUR. GLOBE GRAIN & MILLING Co., Los Angeles, Calif.
Filed June 12, 1922. Serial No. 165,370. PUBLISHED DECEMBER 12, 1922.

167,126. CANNED FOODS. MARSHALL CANNING COMPANY, Marshalltown, Iowa.
Filed June 12, 1922. Serial No. 165,397. PUBLISHED DECEMBER 12, 1922.

167,127. CANNED FOODS. MARSHALL CANNING COMPANY, Marshalltown, Iowa.
Filed June 12, 1922. Serial No. 165,398. PUBLISHED JANUARY 30, 1923.

167,128. CRACKERS. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash.
Filed June 12, 1922. Serial No. 165,409. PUBLISHED DECEMBER 12, 1922.

167,129. COCONUT MACAROON STRIP. STANDARD BAKING COMPANY, San Francisco, Calif.
Filed June 12, 1922. Serial No. 165,420. PUBLISHED JANUARY 30, 1923.

167,130. FRESH EGGS. POULTRY PRODUCERS OF SOUTHERN CALIFORNIA, INC., Los Angeles, Calif.
Filed February 1, 1922. Serial No. 158,723. PUBLISHED NOVEMBER 7, 1922.

167,131. WHEAT FLOUR. POAGE-WALL MILLING CO., Catlettsburg, Ky.
Filed January 11, 1922. Serial No. 157,772. PUBLISHED DECEMBER 19, 1922.

167,132. BARLEY, POT BARLEY, PEARL BARLEY, NAKED BARLEY, PATENT BARLEY, SCOTCH BARLEY, BARLEY FLOUR, BARLEY FLAKES, OATS, AND ROLLED OATS. N. V. KONINKLIJKE PELLERIJ "MERCURIUS" VOORHEEN GEBROEDERS LAAN, Wormer, Netherlands.
Filed January 24, 1922. Serial No. 158,396. PUBLISHED DECEMBER 26, 1922.

167,133. CHEESE. GERBER & CO., LTD., Thoune, Switzerland.
Filed January 24, 1922. Serial No. 158,388. PUBLISHED JANUARY 30, 1923.

167,134. WHEAT FLOUR. Jos. I. TRIPLETT, Woodstock, Va.
Filed January 3, 1922. Serial No. 157,455. PUBLISHED DECEMBER 19, 1922.

167,135. BUTTER. THE WADLEY COMPANY, Indianapolis and Terre Haute, Ind.
Filed December 28, 1921. Serial No. 157,243. PUBLISHED DECEMBER 26, 1922.

167,136. CHEESE AND PRESERVED CHEESE. ALPINA CHEESE CO., Burgdorf, Switzerland.
Filed December 27, 1921. Serial No. 157,127. PUBLISHED JANUARY 30, 1923.

167,137. DRESSED POULTRY AND EGGS. THE SEYMOUR PACKING COMPANY, Topeka, Kans.
Filed December 19, 1921. Serial No. 156,929. PUBLISHED JANUARY 23, 1923.

167,138. DRESSED POULTRY AND EGGS. THE SEYMOUR PACKING COMPANY, Topeka, Kans.
Filed December 19, 1921. Serial No. 156,927. PUBLISHED JANUARY 23, 1923.

167,139. DRESSED POULTRY. THE SEYMOUR PACKING COMPANY, Topeka, Kans.
Filed December 19, 1921. Serial No. 156,926. PUBLISHED JANUARY 23, 1923.

167,140. WHEAT FLOUR. HOLLAND O'NEAL MILLING CO., Mount Vernon, Mo.
Filed December 19, 1921. Serial No. 156,899. PUBLISHED DECEMBER 26, 1922.

167,141. BUTTER CREAM, FLUID OR RAW SWEET MILK, FLUID OR RAW SWEET CREAM, WHIP CREAM, AND BUTTERMILK. WESTERN DAIRY CO., Chicago, Ill.
Filed December 16, 1921. Serial No. 156,814. PUBLISHED DECEMBER 26, 1922.

167,142. INNER TUBES FOR PNEUMATIC TIRES, CORD TIRES, AND FABRIC TIRES. THE COLUMBIA TIRE & RUBBER COMPANY, Mansfield, Ohio.
Filed December 16, 1921. Serial No. 156,776. PUBLISHED MARCH 14, 1922.

167,143. WHEAT FLOUR. WASHBURN-CROSBY CO., Minneapolis, Minn.
Filed December 13, 1921. Serial No. 156,670. PUBLISHED DECEMBER 19, 1922.

167,144. WHEAT FLOUR. BERNET, CRAFT & KAUFFMAN MILLING COMPANY, St. Louis, Mo.
Filed December 10, 1921. Serial No. 156,516. PUBLISHED FEBRUARY 6, 1923.

167,145. FOOD FOR CERTAIN NAMED ANIMALS. PRATT FOOD CO., Philadelphia, Pa.
Filed December 6, 1921. Serial No. 156,339. PUBLISHED DECEMBER 19, 1922.

167,146. WHEAT FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Mo.
Filed December 1, 1921. Serial No. 156,161. PUBLISHED JANUARY 30, 1923.

167,147. STOCK FEED, POULTRY FEED, AND CHICK FEED. BALLARD & BALLARD COMPANY, Louisville, Ky.
Filed November 30, 1921. Serial No. 156,074. PUBLISHED DECEMBER 26, 1922.

167,148. PHOTOGRAPHIC ENLARGEMENT EASELS. PERCY WILLIAMS, Los Angeles, Calif.
Filed September 15, 1921. Serial No. 152,978. PUBLISHED JANUARY 30, 1923.

167,149. BUCKLES AND RESILIENT BELT LINKS BOTH FOR PERSONAL WEAR AND NOT MADE OF PRECIOUS METAL. EDWARD ABRAHAM, doing business as Abraham & Co., New York, N. Y.
Filed April 1, 1921. Serial No. 145,542. PUBLISHED DECEMBER 12, 1922.

167,150. WEIGHING MACHINE. E. EDTBAUER & CO., Chicago, Ill.
Filed March 12, 1921. Serial No. 144,669. PUBLISHED JANUARY 30, 1923.

167,151. HOLDERS FOR CIGARS AND CIGARETTES AND MOUTHPIECES FOR PIPES. D. A. SCHULTE, INC., New York, N. Y.
Filed November 21, 1922. Serial No. 172,358. PUBLISHED JANUARY 30, 1923.

167,152. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed November 23, 1922. Serial No. 172,418. PUBLISHED FEBRUARY 6, 1923.

167,153. DOLLS. FRANK O. KING, Chicago, Ill.
Filed November 27, 1922. Serial No. 172,598. PUBLISHED JANUARY 30, 1923.

167,154. BOND, LEDGER, AND WRITING PAPER, BOTH PLAIN AND WATERMARKED. POLAND PAPER COMPANY, Mechanic Falls, Me.
Filed November 28, 1922. Serial No. 172,651. PUBLISHED FEBRUARY 6, 1923.

167,155. LEAD FOR PENCILS. NITRO PENCIL COMPANY, Nitro, W. Va.
Filed December 4, 1922. Serial No. 172,897. PUBLISHED FEBRUARY 6, 1923.

167,156. TOILET PAPER, WRAPPING PAPER, BOOK PAPER, AND PRINTING PAPER. MESSINGER PAPER COMPANY, Chicago, Ill.
Filed December 6, 1922. Serial No. 172,998. PUBLISHED FEBRUARY 6, 1923.

167,157. TOILET PAPER, WRAPPING PAPER, BOOK PAPER, AND PRINTING PAPER. MESSINGER PAPER COMPANY, Chicago, Ill.
Filed December 6, 1922. Serial No. 173,000. PUBLISHED FEBRUARY 6, 1923.

167,158. PAPETERIES, WRITING AND TYPEWRITING TABLETS; WRITING PAPER IN REAMS, POUNDS, AND OTHER PACKAGES, AND MAILING ENVELOPES. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed December 8, 1922. Serial No. 173,115. PUBLISHED FEBRUARY 6, 1923.

167,159. PAPETERIES, WRITING AND TYPEWRITING TABLETS; WRITING PAPER IN REAMS, POUNDS, AND OTHER PACKAGES, AND MAILING ENVELOPES. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed December 8, 1922. Serial No. 173,117. PUBLISHED FEBRUARY 6, 1923.

167,160. PAPETERIES, WRITING AND TYPEWRITING TABLETS; WRITING PAPER IN REAMS, POUNDS, AND OTHER PACKAGES, AND MAILING ENVELOPES. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed December 8, 1922. Serial No. 173,119. PUBLISHED FEBRUARY 6, 1923.

167,161. DOLLS. SAMUEL ROBERT, doing business as Konroe Merchants, New York, N. Y.
Filed December 12, 1922. Serial No. 173,244. PUBLISHED FEBRUARY 6, 1923.

167,162. MALTLESS, NONCEREAL, NONALCOHOLIC BEVERAGE. ROBERT W. GOODALE, doing business as Goodale Dairy Co., Goodale Ice Cream Co., and Howdy Bottling Works, Centralia, Ill.
Filed October 26, 1922. Serial No. 171,214. PUBLISHED FEBRUARY 6, 1923.

167,163. CIGARS. ALONSO BROS., Brunswick, Ga.
Filed October 27, 1922. Serial No. 171,245. PUBLISHED JANUARY 9, 1923.

167,164. POWDER PUFFS. THE BONNIE-B COMPANY, INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,249. PUBLISHED FEBRUARY 6, 1923.

167,165. FISHING HOOKS AND LEADERS. CHARLES FREDRICKS, Brooklyn, N. Y.
Filed November 2, 1922. Serial No. 171,492. PUBLISHED JANUARY 23, 1923.

167,166. ASH TRAYS AND MATCH-BOX HOLDERS. FELDT MANUFACTURING COMPANY, INC., Jamestown, N. Y.
Filed November 3, 1922. Serial No. 171,532. PUBLISHED JANUARY 30, 1923.

167,167. DOLLS. MAYOTTA BROWNE, San Francisco, Calif.
Filed November 6, 1922. Serial No. 171,610. PUBLISHED JANUARY 30, 1923.

167,168. GOLF BALLS. THE CRAWFORD, MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed November 6, 1922. Serial No. 171,617. PUBLISHED JANUARY 30, 1923.

167,169. SIRUPS FOR USE IN MAKING NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SIGMUND L. GOLDMAN, doing business as Red Sun Products Co., Inc., Chicago, Ill.
Filed November 6, 1922. Serial No. 171,635. PUBLISHED JANUARY 30, 1923.

167,170. CIGARS. HARRY NOLIBOFF, New Haven, Conn.
Filed November 6, 1922. Serial No. 171,652. PUBLISHED FEBRUARY 6, 1923.

167,171. GOLF BALLS. LLOYD A. WIMPFHEIMER, New York, N. Y.
Filed November 9, 1922. Serial No. 171,776. PUBLISHED JANUARY 30, 1923.

167,172. TOOTHBRUSHES. JOHN OPPIE MCCALL, Buffalo, N. Y.
Filed November 10, 1922. Serial No. 171,810. PUBLISHED JANUARY 9, 1923.

167,173. MALT AND HOPS COMPOUND FOR BEVERAGE PURPOSES. ALFONSO M. PAULEBO, Baltimore, Md.
Filed November 13, 1922. Serial No. 171,948. PUBLISHED JANUARY 30, 1923.

167,174. SMOKING TOBACCO. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed November 14, 1922. Serial No. 171,981. PUBLISHED JANUARY 9, 1923.

167,175. BRUSHES DESIGNED FOR HOUSEHOLD USE, INCLUDING BRUSHES FOR WASHING DISHES, GLASSWARE, BOTTLES, PERCOLATORS, AND LIKE UTENSILS. THE OSBORN MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 14, 1922. Serial No. 172,010. PUBLISHED JANUARY 9, 1923.

167,176. LEAF TOBACCO. SUHLING & CO. INC., Lynchburg, Va.
Filed November 14, 1922. Serial No. 172,019. PUBLISHED JANUARY 9, 1923.

167,177. LEAF TOBACCO. SUHLING & CO. INC., Lynchburg, Va.
Filed November 14, 1922. Serial No. 172,020. PUBLISHED JANUARY 9, 1923.

167,178. CIGARS. LA DEZ CIGAR CO., Denver, Colo.
Filed November 1, 1922. Serial No. 172,023. PUBLISHED JANUARY 9, 1923.

167,179. PURE MALT EXTRACTS. SIGMUND KATZ, doing business as Diamond Star Products Co., New York, N. Y.
Filed November 15, 1922. Serial No. 172,048. PUBLISHED JANUARY 30, 1923.

167,180. GAME-TABLE CUSHIONS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 16, 1922. Serial No. 172,079. PUBLISHED JANUARY 30, 1923.

167,181. GAME-TABLE CUSHIONS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 16, 1922. Serial No. 172,078. PUBLISHED JANUARY 30, 1923.

167,182. SPAGHETTI, CHEESE, AND SAUCE. MERROLLA, RICCIARDI AND SALOMONE CORPORATION, New York, N. Y.
Filed April 24, 1922. Serial No. 162,842. PUBLISHED JANUARY 30, 1923.

167,183. BREAD. SCHELLER CATERING COMPANY, St. Louis, Mo.
Filed April 24, 1922. Serial No. 162,856. PUBLISHED DECEMBER 12, 1922.

167,184. WHEAT FLOUR. BOONVILLE MILLS COMPANY, Boonville, Mo.
Filed April 26, 1922. Serial No. 162,911. PUBLISHED DECEMBER 12, 1922.

167,185. POTATOES AND DAIRY FEEDS. SOUTH JERSEY FARMERS EXCHANGE, Woodstown, N. J.
Filed April 26, 1922. Serial No. 162,960. PUBLISHED JANUARY 2, 1923.

167,186. LIQUID COMPOUND IN THE NATURE OF A FURNITURE AND AUTOMOBILE POLISH FOR REFINISHING PAINTED SURFACES. WONDER GLOSS LABORATORIES, Jasper, Ala.
Filed August 14, 1922. Serial No. 168,233. PUBLISHED JANUARY 9, 1923.

167,187. A RAPID-DRYING VARNISH-BINDER AND A RAPID-DRYING VARNISH. JOHN A. STEEN VARNISH COMPANY, Chicago, Ill.
Filed September 26, 1921. Serial No. 153,371. PUBLISHED NOVEMBER 29, 1921.

167,188. BUTTER, FRESH EGGS, AND CHEESE. S. S. LONG & BRO. INC., New York, N. Y.
Filed January 14, 1922. Serial No. 157,932. PUBLISHED JANUARY 23, 1923.

167,189. POULTRY FEED. QUISENBERRY FEED MFG. CO., Kansas City, Mo.
Filed January 19, 1922. Serial No. 158,143. PUBLISHED DECEMBER 26, 1922.

167,190. POULTRY FEED. QUISENBERRY FEED MFG. CO., Kansas City, Mo.
Filed January 19, 1922. Serial No. 158,144. PUBLISHED NOVEMBER 7, 1922.

167,191. POULTRY FEED, BUTTERMILK LAYING MASH. QUISENBERRY FEED MFG. CO., Kansas City, Mo.
Filed January 19, 1922. Serial No. 158,145. PUBLISHED JANUARY 2, 1923.

167,192. WHEAT FLOUR. STAFFORD COUNTY FLOUR MILLS CO., Hudson, Kans.
Filed January 19, 1922. Serial No. 158,156. PUBLISHED NOVEMBER 7, 1922.

167,193. SCRATCH FEED. LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind.
Filed April 17, 1922. Serial No. 162,423. PUBLISHED DECEMBER 12, 1922.

167,194. CHEESE. CARL MARTY AND COMPANY, Chicago, Ill.
Filed April 17, 1922. Serial No. 162,432. PUBLISHED JANUARY 30, 1923.

167,195. FRESH EGGS IN THE SHELL, MIXED WHOLE EGGS, EGG YOLKS, AND EGG WHITES. TITMAN EGG COMPANY, Chicago, Ill.
Filed April 17, 1922. Serial No. 162,467. PUBLISHED DECEMBER 12, 1922.

167,196. BAKED CONFECTIONS. EARLE D. BROWN, doing business as The Everam Co., South Bend, Ind.
Filed April 18, 1922. Serial No. 162,473. PUBLISHED JANUARY 30, 1923.

167,197. BAKED CONFECTIONS. EARLE D. BROWN, doing business as The Everam Co., South Bend, Ind.
Filed April 18, 1922. Serial No. 162,474. PUBLISHED DECEMBER 12, 1922.

167,198. BREAD. STAR BAKERY CO., Hastings, Mich.
Filed April 18, 1922. Serial No. 162,513. PUBLISHED JANUARY 23, 1923.

167,199. BUTTER. PURITY CREAMERY CO., Baltimore, Md.
Filed April 19, 1922. Serial No. 162,568. PUBLISHED DECEMBER 12, 1922.

167,200. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo., also doing business as The Burley Flour Mills, Burley, Idaho.
Filed April 20, 1922. Serial No. 162,609. PUBLISHED DECEMBER 12, 1922.

167,201. WHEAT FLOUR. THE MIDLAND FLOUR MILLING CO., Kansas City, Mo.
Filed April 20, 1922. Serial No. 162,639. PUBLISHED DECEMBER 12, 1922.

167,202. WHEAT FLOUR. THE MIDLAND FLOUR MILLING CO., Kansas City, Mo.
Filed April 20, 1922. Serial No. 162,640. PUBLISHED DECEMBER 12, 1922.

167,203. WHEAT FLOUR. THE WICHITA FLOUR MILLS CO., Wichita, Kans.
Filed April 20, 1922. Serial No. 162,654. PUBLISHED JANUARY 23, 1923.

167,204. WHEAT FLOUR. THE WICHITA FLOUR MILLS CO., Wichita, Kans.
Filed April 20, 1922. Serial No. 162,655. PUBLISHED JANUARY 23, 1923.

167,205. WHEAT FLOUR. FRED WOLF, doing business as Wolf Milling Co., Ellinwood, Kans.
Filed April 20, 1922. Serial No. 162,656. PUBLISHED JANUARY 30, 1923.

167,206. NONFERROUS ALLOY CONTAINING VARIOUS PROPORTIONS OF NICKEL, COPPER, AND ZINC. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y.
Filed July 17, 1922. Serial No. 167,013. PUBLISHED FEBRUARY 6, 1923.

167,207. BUTTER. LAUREL ICE & PACKING CO., Laurel, Miss.
Filed June 10, 1922. Serial No. 165,295. PUBLISHED DECEMBER 12, 1922.

167,208. OIL MEAL. SPENCER KELLOGG & SONS, INC., Buffalo, N. Y.
Filed June 7, 1922. Serial No. 165,138. PUBLISHED DECEMBER 19, 1922.

167,209. CHEESE. NATHAN DORMAN, New York, N. Y.
Filed June 7, 1922. Serial No. 165,126. PUBLISHED JANUARY, 30, 1923.

167,210. CORN FLOUR. PABLO GONZALEZ GARZA, doing business as Grain Export Co., San Antonio, Tex.
Filed June 6, 1922. Serial No. 165,078. PUBLISHED JANUARY 30, 1923.

167,211. FEED FOR CHICKENS. MERCHANTS SUPPLY COMPANY, Beatrice, Nebr.
Filed June 6, 1922. Serial No. 165,088. PUBLISHED DECEMBER 19, 1922.

167,212. PASTRY, FRUIT TARTS, AND FRUIT PIES. HANS ZINCKE, Hoboken, N. J.
Filed June 2, 1922. Serial No. 164,847. PUBLISHED JANUARY 30, 1923.

167,213. CEREAL CONSISTING OF WHEAT TOASTED AND STEEL CUT. PEGGY'S HEALTH FOOD COMPANY, Butte, Mont.
Filed June 2, 1922. Serial No. 164,829. PUBLISHED JANUARY 30, 1923.

167,214. AUTOMOBILE BODY HARDWARE. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed May 15, 1922. Serial No. 163,901. PUBLISHED JANUARY 30, 1923.

167,215. NUT MARGARINE. E. F. DREW & CO., INC., New York, N. Y.
Filed May 10, 1922. Serial No. 163,619. PUBLISHED DECEMBER 19, 1922.

167,216. CRACKERS. THE FRED W. ALBRECHT GROCERY COMPANY, Akron, Ohio.
Filed May 11, 1922. Serial No. 163,662. PUBLISHED JANUARY 30, 1923.

167,217. AUTOMOBILE BODY HARDWARE—NAMELY, CHANNEL AND SHAPES AND DIE CASTINGS. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed May 15, 1922. Serial No. 163,900. PUBLISHED JANUARY 30, 1923.

167,218. A MAP-MEASURING INSTRUMENT. LINRAWEAVER AND SWIFT, St. Louis, Mo.
Filed February 2, 1922. Serial No. 158,781. PUBLISHED DECEMBER 5, 1922.

167,219. WHEAT FLOUR. KEYSTONE FLOUR COMPANY, Clearfield, Pa.
Filed May 4, 1922. Serial No. 163,336. PUBLISHED JANUARY 30, 1923.

167,220. RING DOWELS. TIMBER TRUSS CO. OF AMERICA, New York, N. Y.
Filed May 4, 1922. Serial No. 163,365. PUBLISHED FEBRUARY 6, 1923.

167,221. RING DOWELS. TIMBER TRUSS CO. OF AMERICA, New York, N. Y.
Filed May 4, 1922. Serial No. 163,366. PUBLISHED FEBRUARY 6, 1923.

167,222. AN AUTOMOBILE-ACTUATED POWER-TRANSMISSION APPLIANCE. INDUSTRIAL SERVICE COMPANY, Lincoln, N. J.
Filed December 17, 1921. Serial No. 156,833. PUBLISHED FEBRUARY 6, 1923.

167,223. DRESSED POULTRY. THE SEYMOUR PACKING COMPANY, Topeka, Kans.
Filed December 19, 1921. Serial No. 156,928. PUBLISHED JANUARY 23, 1923.

167,224. LIQUID MEASURING AND LEVEL INDICATING APPARATUS. DOBBIE MCINNES AND CLYDE LIMITED, Glasgow, Scotland.
Filed January 3, 1922. Serial No. 157,413. PUBLISHED FEBRUARY 6, 1923.

167,225. METAL TANKARDS AND TRAYS OF BASE METAL. LANE H. SPENCER, New York, N. Y.
Filed January 25, 1922. Serial No. 158,456. PUBLISHED JANUARY 30, 1923.

167,226. LIQUID-LEVEL INDICATORS. PORTER ELECTRIC CARBURETER, INC., New York, N. Y.
Filed September 21, 1922. Serial No. 169,777. PUBLISHED JANUARY 30, 1923.

167,227. CERTAIN NAMED TOILET ARTICLES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed September 18, 1922. Serial No. 169,641. PUBLISHED FEBRUARY 6, 1923.

167,228. HEADACHE POWDERS AND LINIMENT AND TABLETS FOR CERTAIN AILMENTS. GOODRICH DRUG COMPANY, Anoka, Minn.
Filed September 18, 1922. Serial No. 169,633. PUBLISHED FEBRUARY 13, 1923.

167,229. TABLETS FOR THE RELIEF OF HEADACHE, NEURALGIA, LUMBAGO, NEURITIS, RHEUMATISM, GRIPPE, COLDS, SORE THROAT, TOOTHACHE, AND EARACHE. MAURICE J. RYAN, doing business as The Rae-Tol Company, Oakland, Calif.
Filed August 10, 1922. Serial No. 168,071. PUBLISHED JANUARY 23, 1923.

167,230. SHOVELS, SCOOPS, SPADES, POSTHOLE DIGGERS, AND WOODEN HANDLES. BALDWIN TOOL WORKS, Parkersburg, W. Va.
Filed July 10, 1922. Serial No. 166,644. PUBLISHED JANUARY 30, 1923.

167,231. TOILET AND MEDICINAL PREPARATIONS. PERKINS PRODUCTS CO., Hastings, Nebr.
Filed June 12, 1922. Serial No. 165,411. PUBLISHED JANUARY 30, 1923.

167,232. PREPARATION FOR PREVENTING PERSPIRATION AND ODOR. DELROSE LABORATORIES, Carbondale, Pa.
Filed May 24, 1922. Serial No. 164,403. PUBLISHED OCTOBER 24, 1922.

167,233. CHEMICALS SUCH AS BICHROMATE OF POTASH AND BICHROMATE OF SODA. MUTUAL CHEMICAL CO. OF AMERICA, New York, N. Y.
Filed May 16, 1922. Serial No. 163,939. PUBLISHED OCTOBER 17, 1922.

167,234. AUTOMATIC AND CONTINUOUS WEIGHING APPARATUS, RECORDING MECHANISM FOR WEIGHING MECHANISM, AND COMBINED AUTOMATIC WEIGHING AND WEIGHT-RECORDING MECHANISM. MERRICK SCALE MFG. COMPANY, Passaic, N. J.
Filed April 12, 1922. Serial No. 162,188. PUBLISHED JANUARY 30, 1923.

167,235. MEDICINAL PREPARATIONS FOR NERVOUSNESS, ANÆMIA, NUTRITIONAL DISORDERS, BAD BLOOD, AND SIMILAR AILMENTS. LUELLA A. WHITE, Buffalo, N. Y.
Filed March 24, 1922. Serial No. 161,215. PUBLISHED SEPTEMBER 19, 1922.

167,236. EGGS, YOUNG CHICKS, LIVE POULTRY, DRESSED POULTRY, PULLETS, YEARLING HENS AND MALES FOR BREEDING PURPOSES AND EGG PRODUCTION. QUEENSBURY FARMS, Toms River, N. J.
Filed February 20, 1922. Serial No. 159,615. PUBLISHED FEBRUARY 6, 1923.

167,237. FRESH MILK. THE MATTHEWS SELECTED DAIRIES COMPANY, Cincinnati, Ohio.
Filed February 20, 1922. Serial No. 159,603. PUBLISHED DECEMBER 26, 1922.

167,238. MIXED HORSE AND MULE FEED. GOLDEN GRAIN MILLING COMPANY, East St. Louis, Ill.
Filed February 17, 1922. Serial No. 159,462. PUBLISHED JANUARY 30, 1923.

167,239. WINTER-WHEAT FLOUR. JOSEPH GROSSMAN, doing business as Kasdum Flour Company, Steubenville, Ohio.
Filed February 15, 1922. Serial No. 159,356. PUBLISHED FEBRUARY 6, 1923.

167,240. POULTRY, LIVE AND DRESSED, AND EGGS. WHITE CEDAR FARM, Elwood, N. J.
Filed February 14, 1922. Serial No. 159,333. PUBLISHED DECEMBER 19, 1922.

167,241. COOKIES AND MACAROONS. MOTHER'S FAVORITE COOKIE COMPANY, Seattle, Wash.
Filed February 14, 1922. Serial No. 159,322. PUBLISHED JANUARY 30, 1923.

167,242. BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed December 11, 1922. Serial No. 173,192. PUBLISHED FEBRUARY 6, 1923.

167,243. CRUDE AND PREPARED ALUMINUM AND ALUMINUM ALLOYS. ALUMINUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland.
Filed December 7, 1922. Serial No. 173,023. PUBLISHED FEBRUARY 6, 1923.

167,244. BITS AND AUGERS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed November 10, 1922. Serial No. 171,801. PUBLISHED JANUARY 30, 1923.

167,245. BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed November 4, 1922. Serial No. 171,578. PUBLISHED FEBRUARY 6, 1923.

167,246. BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed November 4, 1922. Serial No. 171,577. PUBLISHED FEBRUARY 6, 1923.

167,247. HOSE CLAMPS AND PARTS THEREOF. IDEAL CLAMP MFG. CO. INC., Brooklyn, N. Y.
Filed October 28, 1922. Serial No. 171,322. PUBLISHED JANUARY 30, 1923.

167,248. SENSITIZED BLUE-PRINT PAPER. NEW YORK BLUE PRINT PAPER COMPANY, New York, N. Y.
Filed October 25, 1922. Serial No. 171,182. PUBLISHED FEBRUARY 6, 1923.

167,249. RING AND TWISTER TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed October 16, 1922. Serial No. 170,779. PUBLISHED JANUARY 30, 1923.

167,250. BRASS FITTINGS FOR GAS BRACKETS, GAS COCKS, T'S, ELBOWS, AND GAS-RANGE COCKS. THE FEDERAL MANUFACTURING CO., Columbus, Ohio.
Filed October 13, 1922. Serial No. 170,681. PUBLISHED FEBRUARY 6, 1923.

167,251. LIFTING JACKS AND SCREW JACKS. SCHMICK GEAR & SCREW COMPANY, Williamsport, Pa.
Filed October 12, 1922. Serial No. 170,672. PUBLISHED JANUARY 30, 1923.

167,252. RADIO RECEIVING SETS. JACKSON & FINKENAUR, New York, N. Y.
Filed October 10, 1922. Serial No. 170,529. PUBLISHED JANUARY 30, 1923.

167,253. MOTION-PICTURE FILMS, PHOTOGRAPHIC TRANSPARENCIES, RAW FILMS AND PHOTOGRAPHIC SUPPLIES, RAW FILM AND PHOTOGRAPHIC NEGATIVES AND POSITIVES. DURA FILM PROTECTOR CO. INC., New York, N. Y.
Filed October 9, 1922. Serial No. 170,477. PUBLISHED FEBRUARY 6, 1923.

167,254. DIALS FOR ELECTRICAL INSTRUMENTS AND APPLIANCES. HENRY HYMAN & CO. INC., New York, N. Y.
Filed September 23, 1922. Serial No. 169,855. PUBLISHED FEBRUARY 6, 1923.

167,255. COFFEE, CHOCOLATE, WATER, MILK, AND TEA URNS; URN STANDS, SUGAR BOWLS, CRUSHED-FRUIT BOWLS, AND STEAM TABLES. CARL H. ARWE MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed September 21, 1922. Serial No. 169,742. PUBLISHED FEBRUARY 6, 1923.

167,256. RADIO TUNING COIL. RADIOGEM CORPORATION, New York, N. Y.
Filed September 7, 1922. Serial No. 169,184. PUBLISHED JANUARY 30, 1923.

167,257. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. STEVENS & COMPANY, INC., Providence, R. I.
Filed September 6, 1922. Serial No. 169,142. PUBLISHED FEBRUARY 6, 1923.

167,258. DISHWASHING MACHINES. AUTOMATIC DISHWASHER CO. INC., New York, N. Y.
Filed September 2, 1922. Serial No. 168,996. PUBLISHED FEBRUARY 6, 1923.

167,259. RADIO RECEIVING SETS, PARTS THEREOF; ANTENNÆ AND PARTS THEREOF, HEAD PHONES, LOUD SPEAKERS, BATTERIES, LEAD WIRES, PLUGS, AND TUBES. THE PERRY, DESJARDINS & TEMPLE CO., Cincinnati, Ohio, assignor to The Skylark Radio Company, Cincinnati, Ohio, a Corporation of Ohio.
Filed August 9, 1922. Serial No. 168,000. PUBLISHED JANUARY 23, 1923.

167,260. RADIO RECEIVING SETS, PARTS THEREOF; ANTENNÆ AND PARTS THEREOF, HEAD PHONES, LOUD SPEAKERS, BATTERIES, LEAD WIRES, PLUGS, AND TUBES. THE PERRY, DESJARDINS & TEMPLE CO., Cincinnati, Ohio, assignor to The Skylark Radio Company, Cincinnati, Ohio, a Corporation of Ohio.
Filed August 9, 1922. Serial No. 167,999. PUBLISHED FEBRUARY 6, 1923.

167,261. SAW-HANDLE TRIMMINGS COMPRISING FRONT AND REAR CLAMPING PLATES AND CLAMPING BOLTS AND NUTS. THE BEATON & CADWELL MANUFACTURING COMPANY, New Britain, Conn.
Filed August 2, 1922. Serial No. 167,710. PUBLISHED FEBRUARY 6, 1923.

167,262. FURNITURE SLIDING SHOES, BEING EITHER A GLASS OR HARD-METAL BASE WITH A METAL STEM. ONWARD MANUFACTURING COMPANY, Menasha, Wis.
Filed July 20, 1922. Serial No. 167,144. PUBLISHED FEBRUARY 6, 1923.

167,263. WHEAT FLOUR. WASHBURN-CROSBY CO., Minneapolis, Minn.
Filed November 21, 1921. Serial No. 155,721. PUBLISHED DECEMBER 19, 1922.

167,264. CERTAIN NAMED FOODS. WILLIAM B. FAIR, Habana, Cuba.
Filed October 14, 1921. Serial No. 154,080. PUBLISHED JANUARY 30, 1923.

167,265. BREAD. GORDON-PAGEL COMPANY, Detroit, Mich.
Filed October 1, 1921. Serial No. 153,596. PUBLISHED FEBRUARY 6, 1923.

167,266. GAS, GASOLINE, OIL, AND STEAM TRACTORS. THE G. F. H. CORPORATION, Denver, Colo.
Filed September 14, 1921. Serial No. 152,919. PUBLISHED FEBRUARY 6, 1923.

167,267. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., doing business as The Monte Vista Flour Mills, Denver and Monte Vista, Colo.
Filed September 10, 1921. Serial No. 152,784. PUBLISHED DECEMBER 26, 1922.

167,268. FRESH EGGS. COLONIAL BUTTER & EGG CO., INC., New York, N. Y.
Filed September 6, 1921. Serial No. 152,606. PUBLISHED DECEMBER 19, 1922.

167,269. HEALTH WAFERS. FRANK U. LASSEN, Los Angeles, Calif.
Filed September 2, 1921. Serial No. 152,510. PUBLISHED DECEMBER 26, 1922.

167,270. BREAD. GENERAL BAKING COMPANY, New York, N. Y.
Filed September 1, 1921. Serial No. 152,466. PUBLISHED DECEMBER 19, 1922.

167,271. SENSITIZED FILM. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed August 24, 1921. Serial No. 152,122. PUBLISHED AUGUST 1, 1922.

167,272. CANNED VEGETABLES, SALTED PEANUTS, AND ROLLED OATS. MIZELL, MURREY & CO., Nashville, Tenn.
Filed August 23, 1921. Serial No. 152,083. PUBLISHED DECEMBER 19, 1922.

167,273. CONCRETE-MIXING MACHINES AND BRICK-MAKING MACHINES. CONCRETE MACHINERY & SUPPLY CO., Los Angeles, Calif.
Filed August 23, 1921. Serial No. 152,066. PUBLISHED JANUARY 16, 1923.

167,274. BUTTER. WESTERN DAIRY CO., Chicago, Ill.
Filed August 22, 1921. Serial No. 152,052. PUBLISHED MARCH 14, 1922.

167,275. BREAD. GENERAL BAKING COMPANY, New York, N. Y.
Filed August 2, 1921. Serial No. 151,266. PUBLISHED DECEMBER 26, 1922.

167,276. MACHINES FOR FORCING GEARS OR OTHER ARTICLES FROM SHAFTS, AND CYLINDER-BORING MACHINES. EDWARD C. COSTON, Skidmore, Mo.
Filed July 22, 1921. Serial No. 150,800. PUBLISHED JANUARY 30, 1923.

167,277. SCRATCH FEED, CALF FEED, DAIRY FEED, HORSE FEED, HOG FEED. R. E. JONES COMPANY, Wabasha, Minn.
Filed July 14, 1921. Serial No. 150,361. PUBLISHED DECEMBER 26, 1922.

167,278. STOCK AND POULTRY FEED. M. C. PETERS MILL CO., Omaha, Nebr.
Filed July 1, 1921. Serial No. 149,929. PUBLISHED JANUARY 30, 1923.

167,279. STRIKER PLATES AND LOCKS. FRANKLIN WILLIAMS INC. OF N. J., Newark, N. J.
Filed February 12, 1921. Serial No. 143,524. PUBLISHED JANUARY 30, 1923.

167,280. CERTAIN NAMED CINEMATOGRAPHIC APPARATUS. ETABLISSEMENTS CONTINSOUZA, SOCIÉTÉ ANONYME, Paris, France.
Filed January 25, 1921. Serial No. 142,754. PUBLISHED JANUARY 30, 1923.

167,281. WHEAT FLOUR. E. A. CLARK & COMPANY, Portland, Me.
Filed July 16, 1920. Serial No. 135,038. PUBLISHED DECEMBER 26, 1922.

167,282. CANNED TOMATOES. WILLIAM HOWARD HAMILTON, doing business as Factwell Food Products Co., Baltimore, Md.
Filed June 29, 1920. Serial No. 134,364. PUBLISHED JANUARY 23, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

167,283. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM POLATSIK, New York, N. Y. Filed July 14, 1922. Serial No. 166,907.

BENZN KREAM

Particular description of goods.—Soap.
Claims use since Feb. 1, 1922.

167,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. G. DEAN & SON, New York, N. Y. Filed June 30, 1922. Serial No. 166,294.

DEAN

Particular description of goods.—Baking Powder.
Claims use since September, 1921.

167,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY M. ENSLEY, Oakland, Calif. Filed June 27, 1922. Serial No. 166,137.

SOUTH AFRICAN
ROACH, BED BUG AND VERMIN KILLER

Particular description of goods.—Powder for Insect Exterminator.
Claims use since 1916.

167,286. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH L. HOGLAND, doing business as The Victor Products Co., Kansas City, Mo. Filed Apr. 7, 1922. Serial No. 161,886.

NEWTONE

Particular description of goods.—Dressing and Cleaner for Pantasote, Leather, and Rubber.
Claims use since Feb. 1, 1922.

167,287. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE FOXBORO COMPANY, Foxboro, Mass. Filed Jan. 25, 1923. Serial No. 175,079.

FOXBORO

Particular description of goods.—Indicating and Recording Instruments, Commonly Called Gauges, for Measuring the Pressure (Positive, Negative, Differential, or in Combination) of Fluid Media; Indicating and Recording Instruments for Measuring the Level of a Liquid, Indicating and Recording Meters for Measuring Fluid Flow, Indicating and Recording Instruments for Measuring Electrical Forces, Indicating and Recording Instruments for Gas Analysis, Siphon and Mercury Gauges, Thermographs and Thermometers, Psychrographs and Psychrometers, Pyrographs and Pyrometers, Tachometers and Tachographs, Planimeters, Revolution Counters, Controlling Instruments Responsive to a Variable Representing Temperature or Fluid Pressure and the Same Combined With Means for Indicating or Recording the Value of Said Variable, and Renewable Dials, Commonly Called Charts, for Recording Instruments.
Claims use since Sept. 16, 1913.

167,288. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MURRAY COMPANY, Dallas, Tex. Filed Jan. 22, 1923. Serial No. 174,907.

THE MURRAY COMPANY

Particular description of goods.—Cotton Gins, Cotton Elevators, Cotton Presses, Cotton Distributors, Cotton Feeders, Cotton Condensers, Cotton-Oil-Mill Machinery, Cotton-Gin Machinery, and Parts Thereof.
Claims use since Dec. 20, 1900.

167,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE B. MANISCHEWITZ COMPANY, Cincinnati, Ohio. Filed Jan. 12, 1923. Serial No. 174,628.

"The Matzo Without An Equal"

Particular description of goods.—Matzos.
Claims use since September, 1919.

167,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE F. O. STONE BAKING COMPANY, Cincinnati, Ohio. Filed Dec. 26, 1922. Serial No. 173,862.

SPANISH CAKE

Particular description of goods.—Cake.
Claims use since 1909.

167,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE F. O. STONE BAKING COMPANY, Cincinnati, Ohio. Filed Dec. 26, 1922. Serial No. 173,861.

SILVER SLICE

Particular description of goods.—Cake.
Claims use since 1909.

167,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. J. BUSH & Co., INC., New York, N. Y. Filed Dec. 11, 1922. Serial No. 173,173.

MITCHAM

Particular description of goods.—Toilet Water.
Claims use since Mar. 1, 1903.

167,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. J. BUSH & Co., INC., New York, N. Y. Filed Dec. 11, 1922. Serial No. 173,169.



Particular description of goods.—Toilet Water.
Claims use since Mar. 1, 1903.

167,294. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DURAND & WINFIELD, Glendale, Calif. Filed Sept. 26, 1922. Serial No. 169,951.

WINFIELD

Particular description of goods.—Carburetors.
Claims use for not less than one year.

167,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. EARL S. SLOAN INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Dec. 2, 1922. Serial No. 172,850.



Particular description of goods.—Liniments.
Claims use since Nov. 15, 1921.

167,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES C. WIEGAND, New York, N. Y. Filed Nov. 24, 1922. Serial No. 172,499.

Wiegand's

Particular description of goods.—Preparation for Rejuvenating the Hair, Preventing the Hair From Falling Out, Destroying Dandruff, and Eliminating Itching.
Claims use since about Nov. 1, 1915.

167,297. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 17, 1922. Serial No. 172,161.

$1000.00 GUARANTEED WINDOW CLEANER
REG. U.S. PAT. OFF.

Particular description of goods.—Cleaner for Windows, Glass, Cut Glass, and Skylights.
Claims use since Mar. 15, 1921.

167,298. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 17, 1922. Serial No. 172,160.

$1000.00 GUARANTEED Enamel Cleaner
REG. U.S. PAT. OFF.

Particular description of goods.—Enamel Cleaner, used in the Cleaning of Bathtubs, Enamel and Porcelain Ware, and the Like.
Claims use since July, 1915.

167,299. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. PERKINS & SON, INC., Holyoke, Mass. Filed Aug. 28, 1922. Serial No. 168,783.

PERKINS HOLYOKE

Particular description of goods.—Cloth Pilers, Exhaust Fans, Rag Cutters; Paper and Textile Finishing Machinery—Namely, Calenders, Mangles, Embossing Machines, and Calender Rolls.
Claims use since Jan. 1, 1921.

167,300. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. P. BABCOCK COMPANY, New York, N. Y. Filed Aug. 10, 1922. Serial No. 168,016.

BABCOCK'S CORYLOPSIS OF JAPAN

Particular description of goods.—Perfumery, Talcum Powder, Toilet Powder, Face Powder, Rouge, Toilet Water, Bath Salts, Cold Cream, Toilet Cream Balms, Sachets, and Toilet Creams.
Claims use since Sept. 1, 1883.

167,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANTON GUSTENHOVEN, New York, N. Y. Filed Aug. 9, 1922. Serial No. 167,979.



Lining on the drawing indicates red coloring for the lettering, the border, and the coat of the boy and blue coloring for the girl's dress and the boy's cap and trousers.
Particular description of goods.—Hard Candies.
Claims use since May 6, 1921.

167,302. (CLASS 32. FURNITURE AND UPHOLSTERY.) KINNEY-ROMB COMPANY, Chicago, Ill. Filed May 15, 1922. Serial No. 163,884.

DeLuxe

Particular description of goods.—Bed Springs.
Claims use since Mar. 20, 1913.

167,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELVETIA MILK CONDENSING COMPANY, St. Louis, Mo. Filed Mar. 18, 1922. Serial No. 160,606.

"Milk at its Best"

Particular description of goods.—Condensed Milk.
Claims use since Feb. 8, 1921.

167,304. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WEBER LIFELIKE FLY CO., Stevens Point, Wis. Filed Feb. 8, 1922. Serial No. 159,068.

Lifelike

Particular description of goods.—Artificial Fishing Flies.
Claims use since Nov. 15, 1921.

167,305. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 29, 1922. Serial No. 164,675.

PEPTO-MINI

Particular description of goods.—Tooth Paste.
Claims use since Jan. 16, 1922.

167,306. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DESSART BROTHERS INC., Brooklyn, N. Y. Filed Dec. 6, 1922. Serial No. 172,982.

THE UNIVERSAL TOY

Particular description of goods.—Masquerade Outfits.
Claims use since January, 1921.

167,307. (CLASS 45. BEVERAGES, NONALCOHOLIC.) G. MUSANTE, Calistoga, Calif. Filed Feb. 10, 1923. Serial No. 175,880.

CALISTOGA

Particular description of goods.—Mineral Water.
Claims use since 1920.

167,308. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE CINCINNATI GAME COMPANY, Cincinnati, Ohio, assignor to The United States Playing Card Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 12, 1923. Serial No. 174,510.

THE CINCINNATI GAME CO.

Particular description of goods.—Card Games.
Claims use since about Sept. 13, 1900.

167,309. (CLASS 37. PAPER AND STATIONERY.) ESLEECK MANUFACTURING CO., Turners Falls, Mass. Filed Dec. 29, 1922. Serial No. 173,961.

SUPERIOR

Particular description of goods.—Manifold Paper.
Claims use since 1917.

167,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Dec. 15, 1922. Serial No. 173,376.

PILLSBURY'S
FANCY
MIXED FEED

Particular description of goods.—Mixed Feed.
Claims use since on or about Jan. 9, 1920.

167,311. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) F. A. WILLIAMSON MANUFACTURING COMPANY, LIMITED, Ottawa, Canada. Filed Dec. 4, 1922. Serial No. 172,966.

Quick-Wash

Particular description of goods.—Washing Tablets.
Claims use since 1919.

167,312. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LEWIS WOLF, doing business as the Pineberry Punch Syrup Co., Philadelphia, Pa. Filed Oct. 25, 1922. Serial No. 171,193.

Pineberry Punch

Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since Mar. 1, 1922.

167,313. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) VITREOUS STEEL PRODUCTS COMPANY, Cleveland, Ohio. Filed Nov. 5, 1921. Serial No. 155,072.

VITREOUS

Particular description of goods.—Enameled Metal Table Tops.
Claims use since February, 1920.

167,314. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BADGER WIRE & IRON WORKS, Milwaukee, Wis. Filed July 18, 1921. Serial No. 150,499.

KWIK-MIX
CONCRETE MIXER

Particular description of goods.—Concrete Mixers.
Claims use since Dec. 1, 1920.

167,315. (CLASS 32. FURNITURE AND UPHOLSTERY.) WILLIAM W. POOL, Dallas, Tex. Filed June 25, 1921. Serial No. 149,652. Serial No. 149,652.

Direct Mattress Co.
THE DIRECT WAY

Particular description of goods.—Cotton Mattresses.
Claims use since Apr. 15, 1918.

167,316. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ANIMATED ADVERTISING CORPORATION, Lancaster, Pa., and New York, N. Y. Filed June 20, 1921. Serial No. 149,371.

ANIMATED

Particular description of goods.—Colored Transparencies of the Type of Stereopticon Slides, But of a Size Four Inches by Five Inches or Larger, and the Display Means Therefor, Said Display Means Comprising Illuminated Boxes for Holding the Slides, Adapted to Show the Slides by Illumination Only and Not by Projection Through Lens.
Claims use since Apr. 28, 1914.

167,317. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WEAVER MANUFACTURING COMPANY, Springfield, Ill. Filed Apr. 5, 1920. Serial No. 130,707.

WEAVER

Particular description of goods.—Garage and Shop Equipment—Namely, Jacks, Screw and Lever Presses, Tire Changers, Bucket Pumps, Towing Poles, Hoists, Tire Spreaders, Portable Adjustable Spout-Equipped Oil and Grease Handling Appliances, Puller Clamps, Portable Adjustable Spout-Equipped Liquid-Dispensing Appliances, Wire-Wheel Repair Stands, Axle Repair Stands, and Axle Pullers.
Claims use since Jan. 1, 1915.

167,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INDEPENDENT SALT CO., New York, N. Y. Filed Mar. 11, 1922. Serial No. 160,551.

BLUSALT

Particular description of goods.—Salt.
Claims use since Jan. 15, 1922.

167,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922. Serial No. 160,477.

GENUINE GOLDEN
HAIR WASH

Particular description of goods.—A Preparation for the Hair.
Claims use since 1900.

167,320. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. SHAKEPROOF SCREW & NUT LOCK COMPANY, Chicago, Ill. Filed Feb. 17, 1922. Serial No. 150,483.

SHAKEPROOF

Particular description of goods.—Nut Locks.
Claims use since Dec. 1, 1921.

167,321. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INLAND CRYSTAL SALT COMPANY OF UTAH, Salt Lake City, Utah. Filed Mar. 11, 1922. Serial No. 160,552.

10¢ SALT CELLAR

Particular description of goods—Table Salt.
Claims use since Dec. 20, 1921.

167,322. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VOCALTONE-PIANOTINA CO., Chicago, Ill. Filed Mar. 26, 1920. Serial No. 130,249.

VOCALTONE

Particular description of goods.—Phonographs.
Claims use since Mar. 1, 1919.

167,323. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROBERT WM. SCHMIDT, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,155.

LONG LIFE

Particular description of goods.—Scarfpins, Cuff Links, Tie Studs, and Ornamental Hatpins.
Claims use since Nov. 8, 1920.

167,324. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN PILE FABRIC COMPANY, Philadelphia, Pa. Filed Jan. 3, 1922. Serial No. 157,400.

SUNTESTED

Particular description of goods.—Velours in Piece Goods, Curtains, Table Scarfs, and Pillow Slips.
Claims use since Oct. 1, 1921.

167,325. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BEN S. LOMB, New York, N. Y. Filed Jan. 19, 1922. Serial No. 158,132.

EVENHEAT

Particular description of goods.—Electric Sadirons.
Claims use since Dec. 20, 1920.

167,326. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE GOLDSMITH'S MUSIC STORE CO., Columbus, Ohio. Filed Feb. 17, 1922. Serial No. 159,465.

GOLDSMITH'S

Particular description of goods.—Pianos, Violins, Guitars, Banjos, and Talking Machines.
Claims use since March, 1915.

167,327. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRADLEY & VROOMAN COMPANY, Chicago, Ill. Filed Mar. 7, 1922. Serial No. 160,276.

"FRESH PAINT IS BETTER PAINT" BASE & TINTER IS FRESH PAINT"

Particular description of goods.—Ready-Mixed Paints.
Claims use since Jan. 3, 1922.

167,328. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE GOLDSMITH'S MUSIC STORE CO., Columbus, Ohio. Filed Mar. 13, 1922. Serial No. 160,602.

"IF IT'S MUSICAL, WE HAVE IT"

Particular description of goods.—Pianos, Violins, Guitars, Banjos, and Talking Machines.
Claims use since Feb. 1, 1912.

167,329. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Mar. 22, 1922. Serial No. 161,096.

PRINCETON

Particular description of goods.—Threads.
Claims use since Jan. 1, 1920.

167,330. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Mar. 22, 1922. Serial No. 161,099.

CHANDLER

Particular description of goods.—Threads.
Claims use since October, 1921.

167,331. (CLASS 2. RECEPTACLES.) CHESTER S. ALLEN, Warren, Pa. Filed July 13, 1922. Serial No. 166,805.

TOOLSAFE

Particular description of goods.—Tool Chests.
Claims use since Jan. 1, 1922.

167,332. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BLACK DIAMOND PAINT & VARNISH WORKS, Cincinnati, Ohio. Filed Aug. 2, 1922. Serial No. 167,704.

Watertite

Particular description of goods.—Ready-Mixed Paints. Varnishes, Stains, Lacquers, Driers, Paste Paints, Condensers, Paint Enamels, Permanent Colors in Oil, Asbestos Paint.
Claims use since 1914.

167,333. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRAHAM CO. INC., New York, N. Y. Filed Aug. 3, 1922. Serial No. 167,772.

THE MIXTURE OF NO APOLOGIES

Particular description of goods.—Mixed Nuts in Their Natural State.
Claims use since July, 1921.

167,334. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL RADIO COMPANY, Cambridge, Mass. Filed Nov. 24, 1922. Serial No. 172,471.

GENERAL RADIO CO.

Particular description of goods.—Amplifiers, Direct and Alternating Current; Audiofrequency Transformers, Sockets, Rheostats, Miscellaneous Small Parts—Namely, Binding Posts, Switches, and Contacts—and Complete Radio Sets.
Claims use since January, 1916.

167,335. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM COMPANY, INC., New York, N. Y. Filed Jan. 15, 1923. Serial No. 174,619.

CHIMER

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 22, 1918.

167,336. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) CHARLES K. COOK COMPANY, Camden, N. J. Filed Jan. 19, 1923. Serial No. 174,767.

Cook's

Particular description of goods.—Leather Goods—Namely, Leather Cases for Brushes, Briefs, Cards, Catalogues, Correspondence Cases, and Portfolios for Bankers and Insurance Agents, Handkerchiefs, Letters, Music, Neckties, and Passes; Suitcases, Toilet Cases, and Albums: Portfolios, Bill Folds, Bill Books and Rolls, Collar Bags, Wallets, Key Purses, Hand Bags, Leather Straps, Pocketbooks, Purses, Gladstone and Traveling Bags.
Claims use since 1914.

167,337. (CLASS 2. RECEPTACLES.) JOHN WHITE JACKSON, Mercer, Pa. Filed Jan. 27, 1923. Serial No. 175,197.

JACKSON

Particular description of goods.—Metal Oil Cans and Oilers.
Claims use since May 26, 1921.

167,338. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KEYSTONE VARNISH COMPANY, Brooklyn, N. Y. Filed Feb. 20, 1923. Serial No. 176,350.

"NO MILKY SPOTS"

Particular description of goods.—A Preparation to be Used in the Manufacture of Floor Paints, Enamels, Fillers, and as a Finishing Varnish, Both Interior and Exterior.
Claims use since Jan. 1, 1922.

TRADE-MARK REGISTRATIONS CANCELED.

80,487. CIGARETTES. NATIONAL CIGARETTE COMPANY, New York, N. Y. Registered December 27, 1910. Canceled March 13, 1923.

102,359. KNIT GOODS—NAMELY, JACKETS, SWEATERS, ARMLETS, LEGGINGS, MITTENS, GLOVES, BATHING SUITS, AND UNDERSHIRTS. ADOLPH BERGMAN, Philadelphia, Pa. Registered February 9, 1915. Canceled March 15, 1923.

104,762. A LUBRICATING OIL WHICH IS PARTICULARLY ADAPTED FOR AUTOMOBILES. BLAKE OIL CO., Liberal, Kans. Registered June 15, 1915. Canceled March 15, 1923.

132,587. LEATHER AND FABRIC SHOES. LOUIS WIESNER, New York, N. Y. Registered June 22, 1920. Canceled March 15, 1923.

140,033. BEARING METAL. THE COSMIC METAL COMPANY, Philadelphia, Pa. Registered March 1, 1921. Canceled March 15, 1923.

149,503. COTTON PIECE GOODS. G. SIDENBERG & CO., New York, N. Y. Registered December 13, 1921. Canceled March 7, 1923.

150,524. COOKING FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Registered January 3, 1922. Canceled March 15, 1923.

LABELS

REGISTERED APRIL 24, 1923.

25,847.—*Title:* BEVIS. For Salt. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans. Published November 1, 1922.

25,848.—*Title:* RAINBOW. For Salt. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans. Published November 1, 1922.

25,849.—*Title:* REAL HUMAN HAIR NET. For Hair Nets. N. B. COHEN & BRO., Scranton, Pa. Published February 1, 1923.

25,850.—*Title:* REAL HUMAN HAIR NET. For Hair Nets. N. B. COHEN & BRO., Scranton, Pa. Published February 1, 1923.

25,851.—*Title:* JANET REAL HUMAN HAIR NET. For Hair Nets. N. B. COHEN & BRO., Scranton, Pa. Published February 20, 1923.

25,852.—*Title:* REAL HUMAN HAIR NET. For Hair Nets. N. B. COHEN & BRO., Scranton, Pa. Published February 20, 1923.

25,853.—*Title:* KING TUT. For Wrapper for a Candy Confection. CROFT & ALLEN COMPANY, Philadelphia, Pa. Published March 1, 1923.

25,854.—*Title:* KRO MOR. For Tomatoes. THE DEFIANCE GROCERY COMPANY, Defiance, Ohio. Published January 29, 1923.

25,855.—*Title:* NUTTY NOTION NOUGAT. For Candy. HARRY DILAS, Bay City, Mich. Published February 2, 1923.

25,856.—*Title:* PORTOLA. For Sardines. K. HOVDEN CO., Monterey, Calif. Published February 9, 1923.

25,857.—*Title:* HOVDEN'S. For Sardines. K. HOVDEN CO., Monterey, Calif. Published February 9, 1923.

25,858.—*Title:* R. S. V. P. For Candy. ROBERT A. JOHNSTON CO., Milwaukee, Wis. Published January 20, 1923.

25,859.—*Title:* ELEISE TOY FURNITURE 'YOU BUILD IT'? INSTRUCTIVE—EDUCATIONAL—ENTERTAINING. For Sets of Toy Furniture. CHARLES J. KERN, doing business as The Kern Toy Co., Buffalo, N. Y. Published May 1, 1921.

25,860.—*Title:* SCOTTIE. For Peas. A. KICKBUSCH GROCERY COMPANY, Wausau, Wis. Published January 10, 1923.

25,861.—*Title:* BROMO. For Headache Capsules. NICHOLAS V. KROEZE, Paterson, N. J. Published March 1, 1923.

25,862.—*Title:* INLAND CHOWDER. For Chowder Made from Combination of Various Meats and Vegetables. C. W. MCMORRAN, San Francisco, Calif. Published September 20, 1922.

25,863.—*Title:* GOLDEN QUININE. For Hair Tonic. THOMAS HENRY NELL, Long Beach, Calif. Published March 22, 1923.

25,864.—*Title:* LEMANE. For Porcelain and Enamel. NEW YORK VITREOUS ENAMEL PRODUCTS CORPORATION, Dover, Del., and Flushing N. Y. Published February 16, 1923.

25,865.—*Title:* KING TUT SHIRT. For Shirts and Boxes Containing Shirts. OPPENHEIM OBERNDORF & CO. INC., Baltimore, Md. Published February 20, 1923.

25,866.—*Title:* SILVER CAP. For Cigars. MAX STERN, Charleroi, Pa. Published March 14, 1923.

25,867.—*Title:* CLEEN-MADE. For Alimentary Paste Products, Such as Macaroni. JOHN P. WEIDENHAMER, Harrisburg, Pa. Published February 21, 1923.

25,868.—*Title:* ABSORBINE. For Healing Antiseptic Liniment for Cuts, Chafes, and Bruises. W. F. YOUNG, INC., Springfield, Mass. Published March 5, 1923.

PRINTS

REGISTERED APRIL 24, 1923.

6,668.—*Title:* FATHER JOHN'S MEDICINE NO DRUGS. For Father John's Medicine. CARLETON & HOVEY COMPANY, Lowell, Mass. Published May 2, 1921.

6,669.—*Title:* HARTMANN CUSHION TOP WARDROBE TRUNKS. For Wardrobe Trunks. HARTMANN TRUNK COMPANY, Racine, Wis. Published March 3, 1923.

6,670.—*Title:* HARTMANN CUSHION TOP WARDROBE TRUNKS. For Wardrobe Trunks. HARTMANN TRUNK COMPANY, Racine, Wis. Published January 6, 1923.

6,671.—*Title:* HARTMANN CUSHION TOP WARDROBE TRUNKS. For Wardrobe Trunks. HARTMANN TRUNK COMPANY, Racine, Wis. Published February 3, 1923.

6,672.—*Title:* WHERE THE FINEST COFFEE FLAVOR COMES FROM. For Coffee. HILLS BROS., San Francisco, Calif. Published January 15, 1923.

6,673.—*Title:* VEEDOL 1923. For Oil. TIDE WATER OIL SALES CORPORATION, New York, N. Y. Published February 27, 1923.

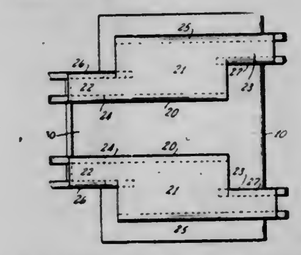
6,674.—*Title:* FULLING SCOURING PERFECTOL. For Greases for Treating Textile Fabrics. U. S. OIL COMPANY, Providence, R. I. Published January 1, 1923.

6,675.—*Title:* VOLTA POWDER. For Medicinal Preparation—Namely, a Powder for the Treatment of Rheumatism. VOLTA CO. OF AMERICA, INC., Philadelphia, Pa. Published December 29, 1922.

REISSUES.

APRIL 24, 1923.

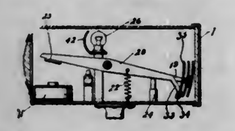
15,583. TRACK-BELT UNIT. EDWIN H. SAVAGE, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Jan. 23, 1922. Serial No. 531,269. Original No. 1,330,955, dated Feb. 17, 1920, Serial No. 307,183, filed June 27, 1919. 10 Claims. (Cl. 305—10.)



1. A three piece pressed metal track belt link comprising, in combination, a shoe having longitudinal slots near its side edges, and two link side members, each having on its lower edge a tongue which goes through one of said slots, and has its lower projecting end upset against the lower surface of said shoe.

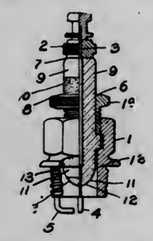
15,584. DIRECTION SIGNAL FOR AUTOMOBILES. WILLIAM W. LINCOLN, Washington, D. C. Filed Feb. 16, 1923. Serial No. 619,518. Original No. 1,411,499. dated Apr. 4, 1922, Serial No. 415,332, filed Oct. 7, 1920. 3 Claims. (Cl. 177—327.)

1. An automobile signal of the class described, including a casing, said casing having a sight opening at the front thereof, arms pivotally supported in the casing, the central arm having a depending portion terminating in a spring clip, the remaining arms having their inner ends provided with angle portions that terminate in straight extensions which are provided with spring clips, signal plates each carried by one of said arms in the clip thereof and disposed one to the rear of the other, spring means biasing the arms to swing the plate carrying ends thereof toward the base of the casing and to position the plates



below the sight opening, buffer means for cushioning the arms on movement thereof in said direction, and means for singly swinging the arms to position the plates in signalling position opposite the sight opening.

15,585. INSULATOR. CHRISTIAN F. SAUERBISEN, Pittsburgh, Pa. Filed Mar. 1, 1922. Serial No. 540,340. Original No. 1,355,272, dated Oct. 12, 1920, Serial No. 368,476, filed Mar. 24, 1920. 13 Claims. (Cl. 123—169.)



1. An insulating body provided with an exposed surface and adapted to insulate two electrodes which contact with said surface at spaced points; said surface including a glazed zone and an unglazed zone between said points.

DESIGNS.

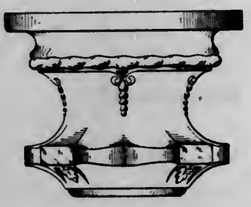
APRIL 24, 1923.

62,231. ELECTRIC-LAMP SHADE. JOSEPH M. CRUCET, New York, N. Y. Filed Dec. 5, 1921. Serial No. 520,167. Term of patent 3½ years.



The ornamental design for an electric lamp shade as shown.

62,232. LIGHT RECEPTACLE FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y. Filed Feb. 10, 1921. Serial No. 444,036. Term of patent 3½ years.



The ornamental design for a light receptacle for lighting fixtures as shown.

62,233. PAIL. MALCOLM E. GRAY, Rochester, N. Y., assignor to Rochester Can Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 13, 1922. Serial No. 1,719. Term of patent 14 years.



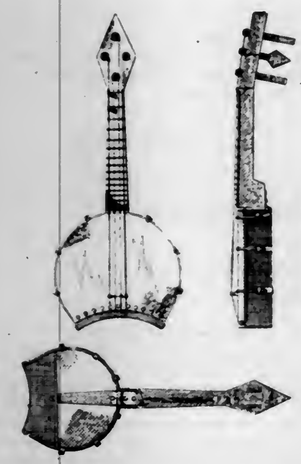
The ornamental design for a pail, as shown.

62,234. PRICE-SCALE CASING. JAMES D. MCGREGOR, Brantford, Ontario, Canada, assignor to Brantford Computing Scales, Ltd., Brantford, Canada, a Corporation of Canada. Filed July 26, 1922. Serial No. 3,203. Term of patent 14 years.



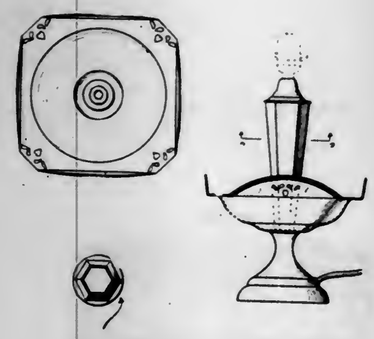
The ornamental design for a price scale casing as shown.

62,235. STRINGED MUSICAL INSTRUMENT. EDWARD N. GUCKERT, Toledo, Ohio. Filed July 25, 1922. Serial No. 3,195. Term of patent 14 years.



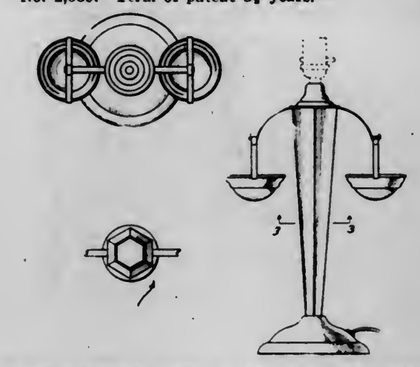
The ornamental design for a stringed musical instrument, as shown.

62,236. ELECTRIC-LAMP STAND. IRVING L. KLEINFIELD, Brooklyn, N. Y. Filed June 12, 1922. Serial No. 2,638. Term of patent 3½ years.



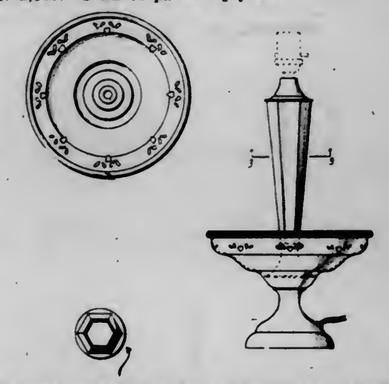
The ornamental design for an electric lamp stand, as shown.

62,237. ELECTRIC-LAMP STAND. IRVING L. KLEINFIELD, Brooklyn, N. Y. Filed June 12, 1922. Serial No. 2,639. Term of patent 3½ years.



The ornamental design for an electric lamp stand, as shown.

62,238. ELECTRIC-LAMP STAND. IRVING L. KLEINFIELD, Brooklyn, N. Y. Filed June 12, 1922. Serial No. 2,640. Term of patent 3½ years.



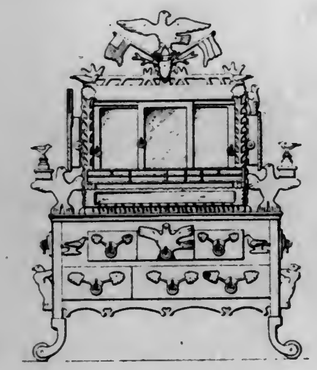
The ornamental design for an electric lamp stand, as shown.

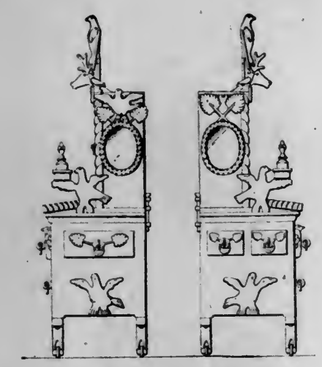
62,239. COMBINED LAMP SHADE AND STAND. MORRIS KORNBLUM, Brooklyn, N. Y. Filed Mar. 8, 1922. Serial No. 1,082. Term of patent 7 years.



The ornamental design for a combined lamp shade and stand as shown.

62,240. CABINET. FRANJO MALOVICH, Chicago, Ill. Filed May 25, 1922. Serial No. 2,417. Term of patent 14 years.





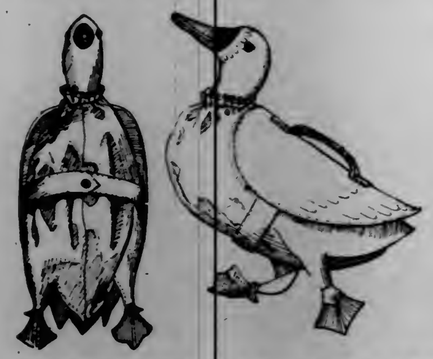
The ornamental design for a cabinet, as shown.

62,241. TOY. WILLIAM J. MORRISEY, Los Angeles, Calif. Filed Aug. 28, 1922. Serial No. 3,578. Term of patent 7 years.



The ornamental design for toy as shown.

62,242. CARRYING BAG. VIRGINIA H. PENDLETON, New York, N. Y. Filed May 11, 1922. Serial No. 2,196. Term of patent 7 years.



The ornamental design for a carrying bag as shown.

62,243. LAMP CASING. CHARLES F. RABENOLD, Philadelphia, Pa. Filed Jan. 4, 1921. Serial No. 435,031. Term of patent 7 years.



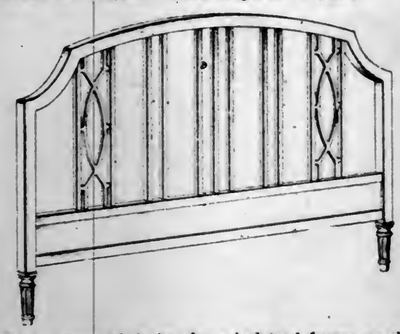
The ornamental design for a lamp casing, as shown.

62,244. SEWING CABINET. OLIVER C. RIETHMILLER and ADELE FOWLER, Philadelphia, Pa. Filed Feb. 17, 1922. Serial No. 749. Term of patent 7 years.



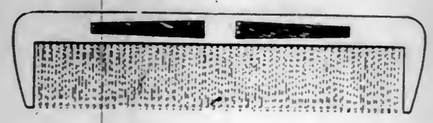
The ornamental design for a sewing cabinet as shown.

62,245. BEDSTEAD FRAME. LOUIS ROHMER, Cleveland, Ohio, assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed May 31, 1921. Serial No. 473,904. Term of patent 7 years.



The ornamental design for a bedstead frame, as shown and described.

62,246. HANDLE FOR A TOILET ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,259. Term of patent 3½ years.



The ornamental design for a handle for a toilet article, as shown.

62,247. HANDLE FOR A MANICURE ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,262. Term of patent 3½ years.



The ornamental design for a handle for a manicure article, as shown.

62,248. HANDLE FOR A MANICURE ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,263. Term of patent 3½ years.



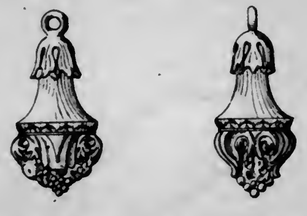
The ornamental design for a handle for a manicure article, as shown.

62,249. HANDLE FOR A MANICURE ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,265. Term of patent 3½ years.



The ornamental design for a handle for a manicure article, as shown.

62,250. PENDULET. JOHN WILLIAM SCHULZE, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed May 18, 1922. Serial No. 2,307. Term of patent 14 years.



The ornamental design for a pendulet, as shown.

62,251. ADVERTISING SIGN. HENRY A. THUERNAU, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 1,570. Term of patent 3½ years.



The ornamental design for an advertising sign, as shown.

62,252. BLANKET OR SIMILAR ARTICLE. FREDERICK A. ANDREWS, Brooklyn, N. Y., assignor to The Esmond Mills, New York, N. Y., a Corporation of Massachusetts. Filed Aug. 21, 1922. Serial No. 3,500. Term of patent 7 years.



The ornamental design for a blanket or similar article substantially as shown.

62,253. STATUETTE. WILLA DANSON, San Leandro, Calif. Filed June 20, 1922. Serial No. 2,747. Term of patent 7 years.



The ornamental design for a statuette, as shown and described.

62,254. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,655. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,255. HARNESS ROSETTE. JULIUS C. HARPHAM, Lincoln, Nebr. Filed Sept. 28, 1922. Serial No. 3,836. Term of patent 7 years.



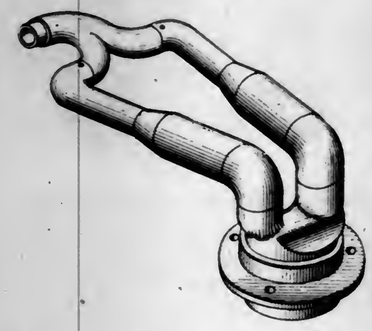
The ornamental design for a harness rosette, as shown.

62,256. HARNESS ROSETTE. JULIUS C. HARPHAM, Lincoln, Nebr. Filed Aug. 24, 1922. Serial No. 3,538. Term of patent 7 years.



The ornamental design for a harness rosette, as shown.

62,257. TONE ARM. AUSTIN W. HOOVER and ROBERT WINTER, Jr., Irwin, Pa. Filed July 27, 1921. Serial No. 488,023. Term of patent 3½ years.



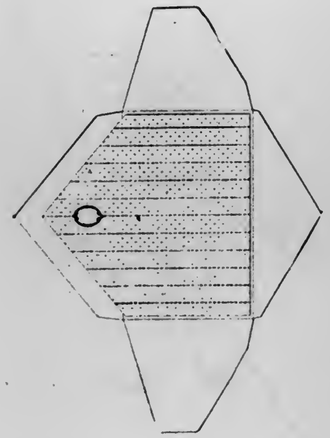
The ornamental design of a tone arm, substantially as shown.

62,258. TONE ARM. AUSTIN W. HOOVER and ROBERT WINTER, Jr., Irwin, Pa. Filed July 27, 1921. Serial No. 488,024. Term of patent 3½ years.



The ornamental design of a tone arm, substantially as shown.

62,259. ENVELOPE. IRVING RODNEY PARSONS, Chicago, Ill. Filed Oct. 17, 1922. Serial No. 4,001. Term of patent 14 years.



The ornamental design for an envelope as shown.

62,260. TEXTILE FABRIC. PAUL REIMANN, New York, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,461. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,261. TEXTILE FABRIC. PAUL REIMANN, New York, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,463. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,262. TEXTILE FABRIC. PAUL REIMANN, New York, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,464. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,263. TEXTILE FABRIC. PAUL REIMANN, New York, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,465. Term of patent 3½ years.



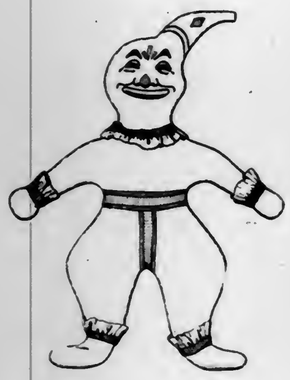
The ornamental design for a textile fabric, as shown.

62,264. SOCK. FRED D. RICKERT, Reading, Pa. Filed Oct. 24, 1922. Serial No. 4,072. Term of patent 7 years.



The ornamental design for a sock, as shown.

62,265. DOLL. RALPH RILEY, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Company of Ohio. Filed Oct. 18, 1922. Serial No. 4,020. Term of patent 14 years.



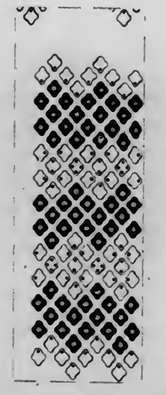
The ornamental design for a doll, as shown.

62,266. TEXTILE FABRIC. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,466. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,267. TEXTILE FABRIC. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial 4,467. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,268. JEWEL MOUNT. MORRIS J. STERN, Jamaica, N. Y. Filed Nov. 4, 1922. Serial No. 4,226. Term of patent 3½ years.

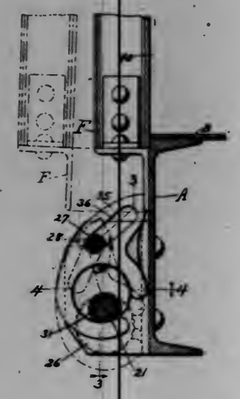


The ornamental design for a jewel mount, as shown.

PATENTS

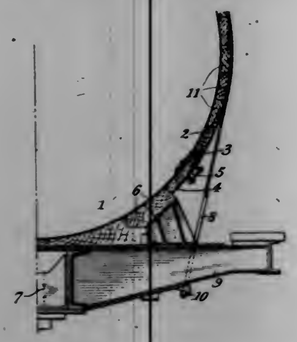
GRANTED APRIL 24, 1923.

1,452,486. CANE CAR. LEOPOLD ALMQUIST, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 8, 1921. Serial No. 483,228. 9 Claims. (Cl. 105—308.)



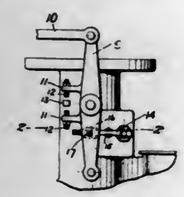
1. In a railway car, a side sill, a gate movable outwardly at its lower portion away from said sill, separable brackets carried by said sill, a cam mounted in said brackets, a shaft adapted to operate said cam, a locking member for said gate operated by said cam and a guide for said locking member mounted in said brackets.

1,452,487. TANK CAR. WILLIAM K. AUCHINCLOSS, New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Oct. 16, 1920. Serial No. 417,353. 7 Claims. (Cl. 220—9.)



1. In a tank car, a tank, a sheathing for said tank, yielding and unyielding insulation between said tank and sheathing and bands securing said tank and sheathing to the car frame, said unyielding insulation preventing deformation of said sheathing by said bands.

1,452,488. CARBURETOR. FREDERIC E. BALDWIN, Philadelphia, Pa. Filed Apr. 16, 1921. Serial No. 461,795. 3 Claims. (Cl. 261—41.)

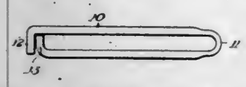


1. A carburetor having in combination a mixture passage and a throttle valve therein provided with an operating lever, an idling by-pass provided with means for admitting fuel and air thereto, and communicating with said mixture passage in advance of the throttle valve, a spring closed valve for controlling said by-pass, and a pivotal lever having one end connected with the last mentioned valve and the other end provided with a cam in range of the operating lever.

2. A carburetor having in combination a mixture passage and a throttle valve therein, an idling by-pass provided with means for admitting fuel and air therein, and communicating with said mixture passage in advance of the throttle valve, a valve for controlling said by-pass and having its stem provided with a spring, a stud projecting from the carburetor, a lever pivoted to the stud and having one of its ends connected with the stem of the last mentioned valve and the other of its ends provided with a cam, and an operating lever connected with the pintle of the throttle valve and adapted to contact with and actuate the cam.

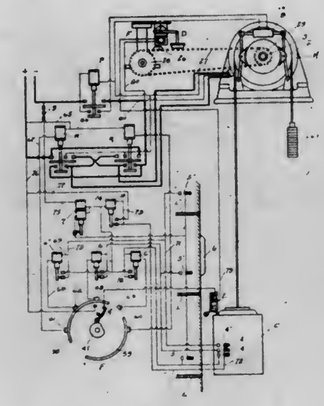
3. A carburetor having in combination a mixture passage and a throttle valve therein, an idling by-pass provided with means for admitting fuel and air thereto, and in communication with said mixture passage in advance of the throttle valve, means for operating the throttle valve, a valve for controlling the admission of fuel to said idling by-pass, a spring for closing the fuel controlling valve, a pivoted lever interposed between the fuel controlling valve and the throttle operating means and a cam carried by said throttle operating means for engaging and operating said pivoted lever to open said fuel controlling valve.

1,452,489. METHOD OF PRODUCING FULCRUMS. CARL E. BAUER, Hammond, Ind. Filed Feb. 7, 1921. Serial No. 442,921. 5 Claims. (Cl. 29—164.)



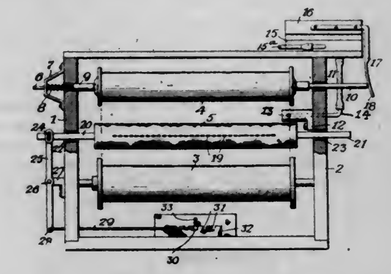
1. The method of making reversible fulcrums which consists in providing a flat blank, bending the ends thereof at right angles, then doubling the blank on itself in such manner that said bent ends are in overlapped relation, then forging said overlapped ends and welding said ends together to produce a fulcrum having an angular end adapted to be received in two positions between the flanges of a channel.

1,452,490. CORRECTING DEVICE FOR FLOOR CONTROLLERS. JOHN E. BOYCE, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 14, 1921. Serial No. 461,382. 19 Claims. (Cl. 187—29.)



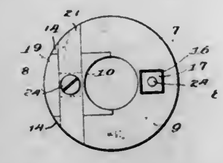
5. In an elevator having a floor controller, and means adapted to operate it, an electro-responsive apparatus adapted to be operated to correct the relative displacement between the car and controller caused by the slippage or creeping of the hoisting cable, comprising an electro-magnet and a circuit thereto, and its armature, the latter adapted, when actuated by the magnet, to arrest the movement of the said driving means of the floor controller, until the correct relation between the car and controller has been restored.

1,452,491. AUTOMATIC MUSICAL INSTRUMENT. THEODORE P. BROWN, Worcester, Mass., assignor to Simplex Player Action Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 5, 1916. Serial No. 118,337. 3 Claims. (Cl. 84—141.)



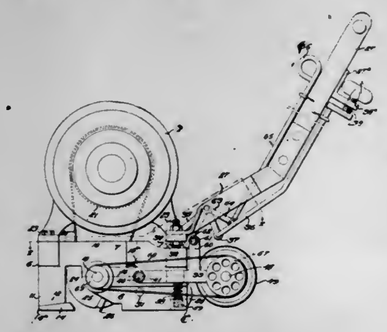
1. In an automatic musical instrument having a perforated music sheet, a longitudinally movable spool for said sheet, a tracker bar and means for moving the music sheet over the tracker bar, the combination with the movable spool of a spring to move the spool in one direction, an actuating pneumatic for moving the spool in the opposite direction, and a fixed member independent of the tracker bar provided with a single aperture communicating with the pneumatic and controlled by divergence of the music sheet from its normal path as it passes over the tracker bar.

1,452,492. WASHER. EDGAR H. CARPENTER, Yoakum, Tex. Filed July 22, 1921. Serial No. 486,692. Renewed Mar. 9, 1923. 4 Claims. (Cl. 85—51.)



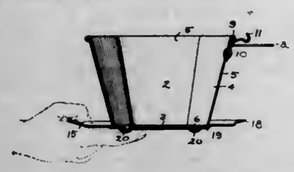
1. A washer including a plate having a raised portion, a resilient cross-bar mounted upon said raised portion and having a free end projecting beyond the raised portion, and a second plate receiving the free end of the cross-bar in locking engagement.

1,452,493. FLOOR PLANER. RALPH L. CONNER, Wilmington, Del. Filed Dec. 21, 1920. Serial No. 432,216. 3 Claims. (Cl. 144—117.)



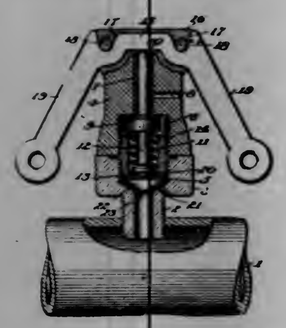
1. A planer of the character described including a cutter having knives for initially planing a floor; an abrasive device optionally movable into engagement with the floor; and adjustable means for transversely moving said abrasive device in a plane approximately parallel with the floor and relatively to the cutter whereby the abrasive device can overlap to various extents the portion of the floor planed by the cutter; substantially as described.

1,452,494. SINK STRAINER. HARRY DALITZ, Cleveland, Ohio. Filed Nov. 6, 1922. Serial No. 599,225. 9 Claims. (Cl. 4—35.)



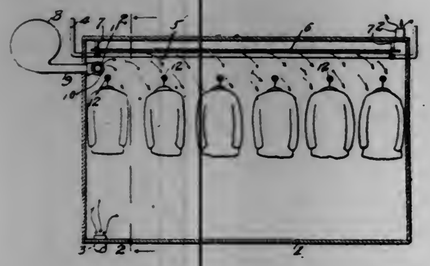
1. A sink strainer or garbage receptacle having a detachable lid, the bottom of said receptacle being perforated and of smaller area than the upper portion thereof, and said lid being relatively larger than the enlarged upper portion of said receptacle and slightly dished to seat in an inverted position thereon and having a central depression corresponding in size and shape to said bottom and adapted to rest said bottom in a stable seating position.

1,452,495. AIR-BRAKE-RELEASE VALVE. ANDREW A. DREES, Lewistown, Mont., assignor of one-half to Philip B. Rohner, Lewistown, Mont. Filed June 19, 1922. Serial No. 569,514. 2 Claims. (Cl. 303—80.)



1. The combination with a brake release valve including a main outlet, a valve normally seated and closing said outlet, and means for unseating said valve, of an upper port leading to said main outlet, a lower port constituting an auxiliary outlet, and a diaphragm arranged between said upper and lower ports and normally closing the lower port and having a central opening whereby when the valve is unseated suction through the diaphragm will operate the diaphragm closing the upper port and opening the lower port.

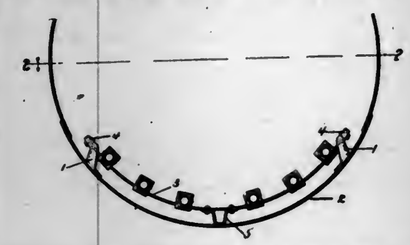
1,452,496. APPARATUS FOR DRYING CLOTHES. VINCENT FERRARA, Watertown, S. Dak. Filed Dec. 14, 1921. Serial No. 522,326. 6 Claims. (Cl. 34—19.)



2. In an apparatus of the class described, the combination of a compartment having a discharge opening in its top and a discharge opening in its bottom, a steam pipe extending through one end of the compartment and formed into coils at the top of the compartment, a metal sheet above the coils in the compartment, angle brackets fastened to the sheet and also fastened to the top of the compartment, a discharge pipe in said compartment under the coils and the sheet, said discharge pipe provided near its top with a slot extending the length of the pipe, and means for suspending clothes under the discharge pipe, coils and sheet, substantially as shown and described.

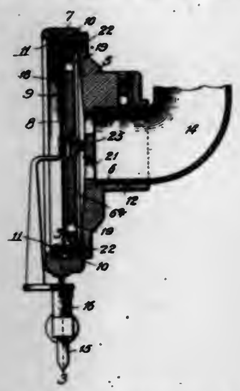
1,452,497. PIPE CLAMP FOR STEAM COILS. CHARLES C. FISCHER, Bloomfield, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed June 29, 1921. Serial No. 481,435. 7 Claims. (Cl. 248—31.)

7. A pipe anchoring means comprising a support, clamping means carried by said pipe and means on said pipe adapted, in conjunction with said clamping means, to prevent longitudinal movement of said pipe with



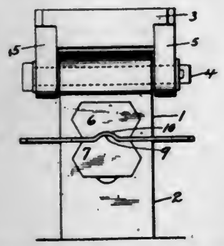
respect to said support and to force said pipe into engagement with said support.

1,452,498. SOUND BOX. ELMER FLETCHER, Chicago, Ill., assignor to Fletcher-Wickes Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1919. Serial No. 322,554. 4 Claims. (Cl. 274—27.)



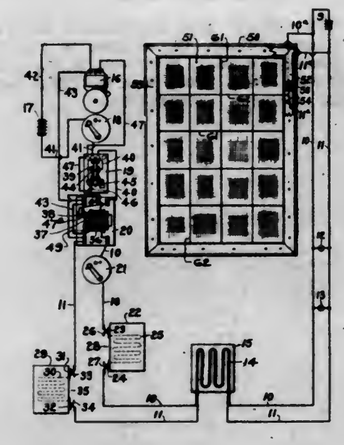
3. In a sound-box, the combination of a case having a back provided with a centrally disposed sound-outlet connection, a diaphragm in the box, an intermediate wall marginally connected to the case spaced from the back and from the diaphragm having openings near the periphery to conduct the sound into the chamber between the plate and the wall, and a connection between the wall and the back for mutually supporting them.

1,452,499. METHOD OF STRAIGHTENING SHEET METAL. CHRISTOPHER FLINN, Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 27, 1920. Serial No. 384,651. 6 Claims. (Cl. 153—76.)



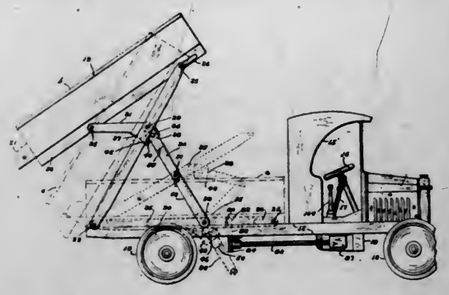
1. The method of removing the camber from a plate which consists in forming a tapered rib in the plate so as to stretch the plate and then pressing out the rib.

1,452,500. BURGLAR-ALARM APPARATUS. BENJAMIN GALERMAN, Philadelphia, Pa. Filed Oct. 15, 1918. Serial No. 258,251. 4 Claims. (Cl. 177—314.)



3. The combination in alarm apparatus, of means providing an electric circuit including a generator; an alarm device, said circuit including two members respectively connected to opposite poles of said generator, one of said members being adapted, due to its resiliency, to engage the other of said members; means for placing said resilient member under tension and holding it out of engagement with the other of said members, said resilient member being so disposed with respect to the other member that when said latter means is pulled it will engage the other of said members to close said circuit to effect the operation of said alarm device, said latter means being a conductor of electricity; and a metallic screen positioned in a plane adjacent said latter means throughout its length and in electric connection with the pole of said generator to which said latter mentioned members is connected whereby when said latter means engages said screen, the circuit will be closed through said screen and generator to effect the operation of said alarm device; substantially as described.

1,452,501. COMBINED HIGH-HOIST AND DUMP WAGON. JOSEPH GASSER, Trenton, N. J. Filed Jan. 12, 1922. Serial No. 528,634. 15 Claims. (Cl. 298—11.)



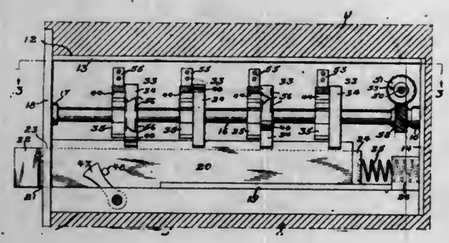
1. In a combined high-hoist and dump wagon the combination with the understructure, body and transmission thereof, of power take off mechanism actuable from the transmission, fluid controlled and actuated means operable by said power take-off mechanism for partially rotating a transverse shaft, said shaft being journaled on the understructure, rock lever mechanism adapted for oscillation by said transverse shaft to effect the raising of the body high, to discharge its contents or simply inclining the same relative to the understructure for ordinary dumping, and means for automatically shifting the power take-off mechanism into neutral as the aforesaid body reaches its limits of movement.

1,452,502. BRUSH. AUGUST GISSLER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 545,746. 1 Claim. (Cl. 300—21.)



The method of making a brush from tree bark, which consists in fermenting a piece of the bark to remove the gum, dividing a portion of the piece of fermented bark into strips by slips extending from one end of said piece and then further dividing the outer portions of said strips into fibers.

1,452,503. LOCK. WILLIAM B. GRUBB, Philadelphia, Pa. Filed Feb. 3, 1921. Serial No. 442,077. 12 Claims. (Cl. 70—54.)



1. Lock mechanism including a selective bolt; selective units for co-acting with said selective bolt; a shaft supporting said selective units and having annular grooves and a key-way interrupted in its length by said grooves, said units having lugs adapted to slide through said key

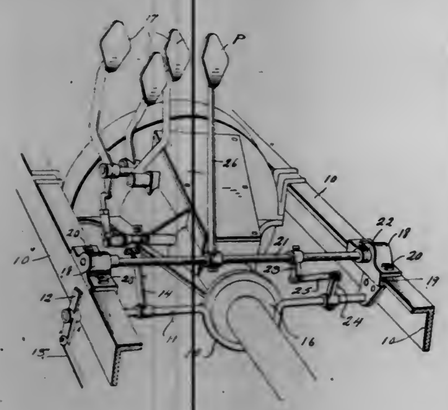
way into said grooves; a key adapted to be inserted within said key-way after the lugs of the selective units have been moved in said annular grooves out of registry with said key-way; and means for operating said selective units whereby they are moved into and out of locking engagement with said selective bolt; substantially as described.

1,452,504. BAKER'S IMPLEMENT. WALTER B. HADLEY, Grand Rapids, Mich., assignor to Carrie B. Hadley, Grand Rapids, Mich. Filed Mar. 13, 1922. Serial No. 543,216. 4 Claims. (Cl. 294—33.)



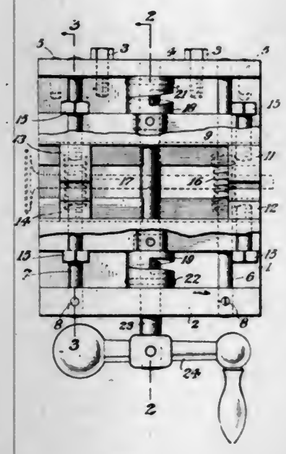
1. In a baker's implement, a shovel made of two leaves arranged for lateral adjustment, said leaves mounted upon the ends of spring constructed handles integral at the outer end and crossed midway between the outer end and the shovel leaves, and means for adjusting the width of the shovel to correspond with the width of the baking pan to be handled with the implement.

1,452,505. TRANSMISSION CONTROL. JAMES H. HAWLEY, Stockbridge, Mich. Filed Sept. 2, 1922. Serial No. 585,970. 2 Claims. (Cl. 74—89.)



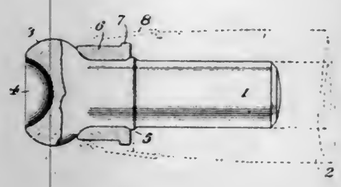
1. In combination with a vehicle frame, a shaft journaled therein, the shaft being provided with a lever whereby it may be oscillated, a clutch and brake mechanism operated from said shaft, of a second shaft mounted for oscillation upon said frame and substantially paralleling the first shaft, an arm secured to each of said shafts, a link connecting the free ends of said arms, and a pedal secured to the last named shaft substantially centrally thereof.

1,452,506. CAM CHUCK FOR CENTERING VALVES. RICHARD HERVIG, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 388,051. 5 Claims. (Cl. 77—63.)



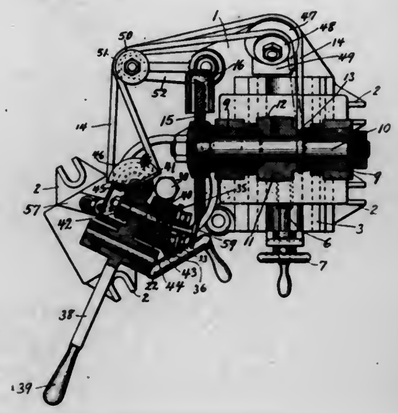
1. In a chuck, a plurality of work engaging jaws, members carrying said jaws, guides for said members, springs surrounding said guides and confined between said members to disengage said jaws from the work and means for forcing said jaws together.

1,452,507. RIVET SET. RICHARD HERVIG, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 388,052. 9 Claims. (Cl. 78—46.)



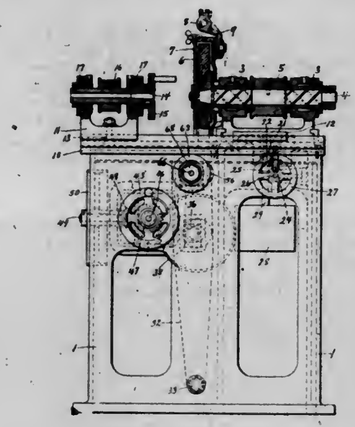
1. A rivet set having an enlarged rounded head, the surface of which is curved in two directions, a shank and a low rounded shoulder on said shank.

1,452,508. MACHINE FOR GRINDING VALVES. RICHARD HERVIG, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 20, 1921. Serial No. 493,902. 12 Claims. (Cl. 51—104.)



1. In a machine of the class described, a plurality of work supporting rollers, a work engaging stop and a work driving roller adapted to force the work against the stop.

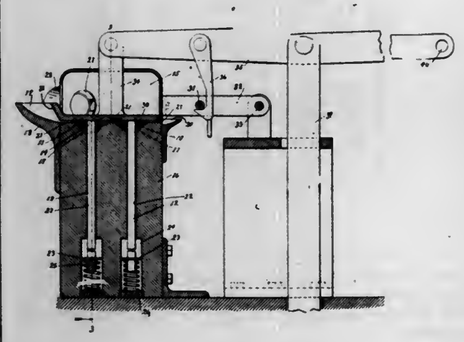
1,452,509. GRINDING MACHINE. RICHARD HERVIG, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 21, 1922. Serial No. 545,457. 10 Claims. (Cl. 51—231.)



1. In a grinding machine, a table, a slotted oscillating lever having a uniform movement, a bearing block slidable in said slot and means carried by said table adapted to shift said block in said slot to vary the movement of said table.

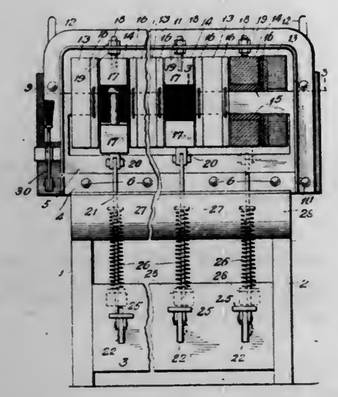
2. In a grinding machine, a reciprocating table, a slotted oscillating lever having a uniform movement, a bearing block slidable in said slot and a rotatable cam carried by said table and adapted to shift said block in said slot and to shift said table with respect to said lever.

1,452,510. APPARATUS FOR MAKING MOTOR VALVES. ROBERT JARDINE, Chicago, Ill., assignor to Rich Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1920. Serial No. 431,956. 7 Claims. (Cl. 22—58.)



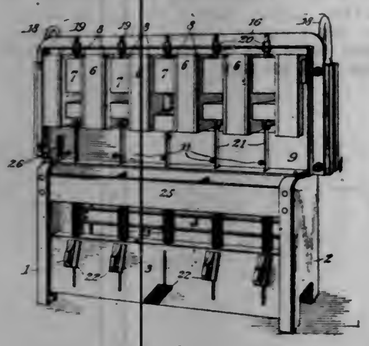
1. Apparatus for casting motor valves and the like having cast metal heads and wrought metal stems comprising in combination, a mold for the valve head having a print for receiving the valve stem to support the same within the mold, and means for heating the valve stem while so supported in advance of pouring the mold.

1,452,511. ELECTRIC RIVET HEATER. WILLIAM S. JOHNSON and JOHN W. SHEFFER, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 17, 1920. Serial No. 404,178. 18 Claims. (Cl. 219—11.)



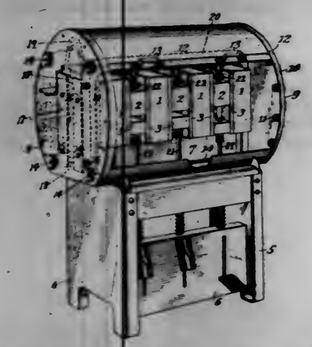
1. In an electric rivet heater, a core, a coil on said core and means mounted in said core and cooperating with said coil to form a chamber to receive the rivet.

1,452,512. ELECTRIC RIVET HEATER. WILLIAM S. JOHNSON and JOHN W. SHEFFER, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Oct. 12, 1920. Serial No. 416,395. 6 Claims. (Cl. 219—2.)



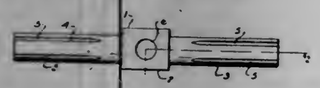
1. In an electric rivet heater, a frame comprising spaced pressed metal end members, core retaining members connecting said end members and a coil supporting member connecting the ends of said core retaining members.

1,452,513. ELECTRIC RIVET HEATER. WILLIAM S. JOHNSON and JOHN W. SHEFFER, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Mar. 21, 1921. Serial No. 454,036. 6 Claims. (Cl. 219—2.)



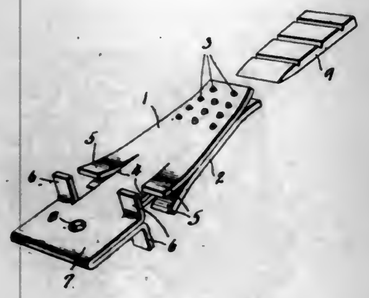
1. In an electric rivet heater, a frame, coils carried by said frame and a sectional sliding hood for said coils secured to said frame.

1,452,514. BOLT ANCHOR. JOHN KARITSKY, Garwood, N. J., assignor, by meane assignments, to Henry B. Newhall, Plainfield, N. J. Filed July 6, 1922. Serial No. 573,162. 5 Claims. (Cl. 85—24.)



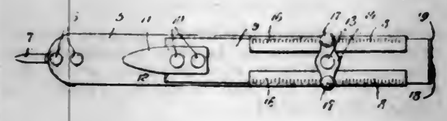
1. An expansion shield formed of sheet metal having a head formed of a plurality of thicknesses of the said sheet metal and integral tines connected to the head, said tines being fluted to form longitudinal internal ribs.

1,452,515. WALL BRACKET. JAMES R. KEARNEY and HARRY L. JOHNSON, Kansas City, Mo. Filed Dec. 16, 1920. Serial No. 431,140. 6 Claims. (Cl. 72—105.)



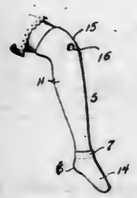
1. A wall bracket formed of a single flat piece of metal bent upon itself at its outer end and having flat inwardly extending tongues whose free ends are flared, said flaring free ends being provided with roughened outer surfaces to engage the wall into which the bracket is driven.

1,452,516. CAN OPENER. VICTOR LAMBERT, Brooklyn, N. Y. Filed Sept. 8, 1921. Serial No. 499,275. 7 Claims. (Cl. 30—3.)



1. A can opener comprising a shank having a centering point at one end and guides near its opposite end, a cutter bar slidably mounted in said guides, and means for adjusting and fixing said cutter bar on the shank comprising a clamp pivoted on said cutter bar and having projecting edges on its inner side adapted, upon turning of the clamp, to engage the outer surfaces of said guides whereby to grip them and hold the cutter bar in operative position.

1,452,517. STOCKING. EVA LEPOW, Philadelphia, Pa. Filed Nov. 2, 1921. Serial No. 512,173. 1 Claim. (Cl. 2—23.)



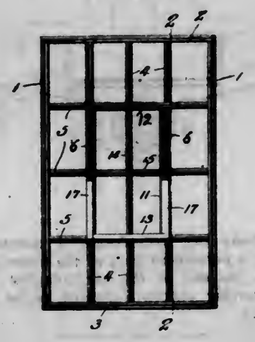
A stocking having a folded part between the heel portion and the knee portion, the fold being secured in position by a removable line of stitching, substantially as described.

1,452,518. PISTON-RING HOLDER. JOHN W. MAINWARING, Brooklyn, N. Y. Filed July 7, 1922. Serial No. 573,868. 7 Claims. (Cl. 29—76.)



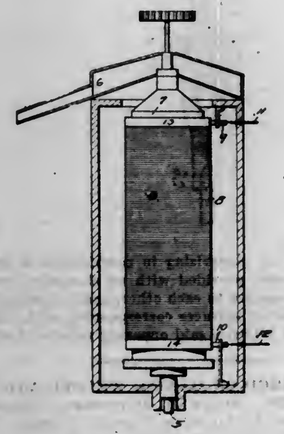
1. A device for holding an article to be trimmed comprising a stock, and two spaced jaws for holding the article to be trimmed, said jaws being fixed to said stock and yieldingly resisting a separating pressure whereby they clamp and hold an article forced between them, said jaws being cut away in a manner permitting the insertion of work to be trimmed from the side of said jaws, the outer ends of said jaws determining a plane.

1,452,519. METAL WINDOW CONSTRUCTION. FRANK MESKER, CLARENCE E. SMITH, and JACOB BEUC, St. Louis, Mo., assignors to Mesker Brothers Iron Company, St. Louis, Mo., a Corporation of Missouri. Filed May 13, 1920. Serial No. 381,044. 2 Claims. (Cl. 189—69.)



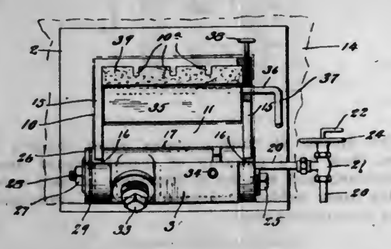
1. In a metallic window construction, a metal sash, a ventilator opening therein, an inwardly extending flange on the inner face of said sash, terminating in an upwardly facing edge intermediate the top and bottom of the ventilator opening, a ventilator frame, an outwardly extending flange on the inner face of said frame, terminating in a downwardly facing edge which is normally in substantial alignment with and resting upon the edge of said sash flange, said flanges thereby cooperating as hinged members for swinging said frame in said sash.

1,452,520. PROCESS FOR CARRYING OUT CONTINUOUS FUSIONS. WALDEMAR OSCAR MITSCHERLING, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 21, 1922. Serial No. 545,621. 3 Claims. (Cl. 260—172.)



3. The herein described process for carrying out a continuous fusion which consists of passing the liquid to be treated through a rapidly rotating tube and maintaining said tube in a heated condition whereby the liquid is subjected to both heat and pressure in a continuous operation.

1,452,521. OIL BURNER. RICHARD REED MORRILL, Palo Alto, Calif., assignor to Oliver Oil-Gas Burner and Machine Company, St. Louis, Mo., a Corporation of Delaware. Filed Apr. 8, 1922. Serial No. 550,821. 10 Claims. (Cl. 158—153.)



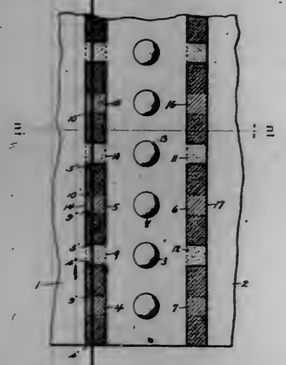
4. An oil burner comprising an open-ended housing, a burner arranged in the forward end of said housing and provided with an oil receiving trough, a vaporizer arranged in said housing rearwardly of said burner and occupying a higher horizontal plane relative thereto, there being a passageway provided between said vaporizer and said burner, an oil supply pipe connected to one end of said vaporizer, a plate detachably held in position for closing the opposite end of said vaporizer and the corresponding end of said burner, closure means adjustably mounted in the forward end of said housing for controlling the ingress of air to said housing, and means for locking said closure means in adjusted position.

1,452,522. FUSIBLE LINK. HARRY M. NACEY, Chicago, Ill. Filed May 9, 1919. Serial No. 296,036. 7 Claims. (Cl. 169—42.)



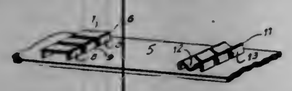
1. A fusible link, comprising in combination a pair of plate members, each provided with an elongated concave surface directly opposed to each other, and a fulcrum block provided with convex surfaces corresponding with and adjacently confined between said opposing concave surfaces.

1,452,523. METHOD OF MAKING WELDED AND RIVETED JOINTS. ALLEN E. OSTRANDER, Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 5, 1921. Serial No. 442,781. 2 Claims. (Cl. 78—46.)



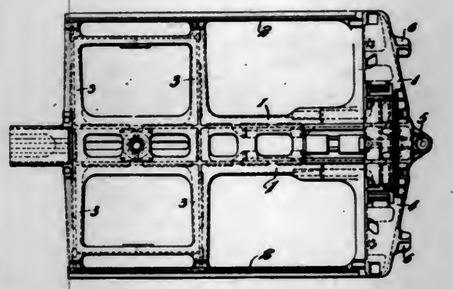
1. The process of uniting plates which consists in welding them at a plurality of spaced aligned areas simultaneously and forming a succession of such welds with the areas welded at successive welds overlapping to form a continuous weld.

1,452,524. TRIMMER-BELT ATTACHMENT. ELISHA F. PARKS, Jr., Timonium, and PHILIP G. LANG, Jr., Baltimore, Md. Filed Sept. 10, 1920. Serial No. 409,507. 2 Claims. (Cl. 198—199.)



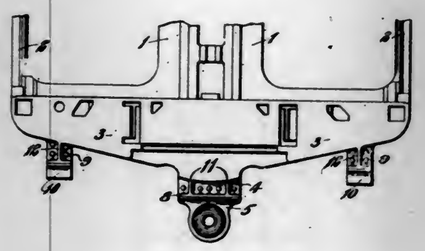
1. A trimmer belt attachment comprising a sinuous top, belt ends each having teeth thereon and straight edges between said teeth, said straight edges being in substantially the same plane as the lower surface of said top.

1,452,525. ARTICULATED CAR UNDERFRAME. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Car Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 28, 1922. Serial No. 609,522. 7 Claims. (Cl. 105—4.)



3. In a one-piece platform casting for a railway car, an integral central projection on the forward end of said casting having a lower surface adapted to be seated on the center plate of a truck extending beyond the end of the car.

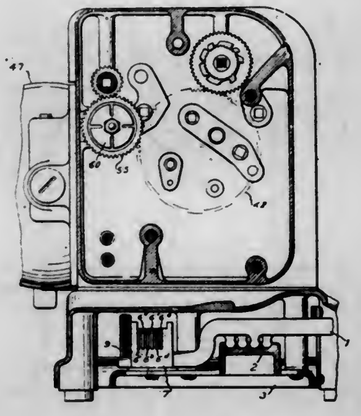
1,452,526. ARTICULATED CAR. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 28, 1922. Serial No. 609,523. 8 Claims. (Cl. 105—4.)



1. In a railway car underframe, a member formed integrally upon a permanent part of the underframe, projecting beyond the end of the car, adapted to receive a renewable bearing element adapted to be supported upon a car truck.

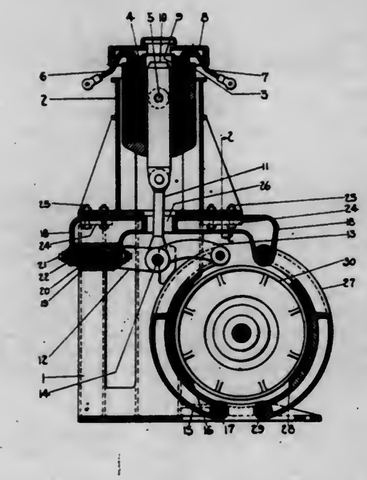
1,452,527. TRANSMITTING APPARATUS FOR ELECTRIC TELEGRAPHS. LOUIS M. POTTS, Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y., a Corporation of New York. Original application filed Dec. 14, 1915, Serial No. 66,830. Patent No. 1,370,669, dated Mar. 8, 1921. Divided and this application filed Feb. 6, 1920. Serial No. 356,615. 11 Claims. (Cl. 178—33.)

11. A telegraph transmitter comprising a plurality of selectable members, keys for moving said members in predetermined combinations, a member common to said keys and movable upon the operation of any one thereof, a single contact spring, a cam, a lever operatively associated with said contact spring and said common member and fulcrumed on said cam upon the movement of said common member for controlling the actuation of



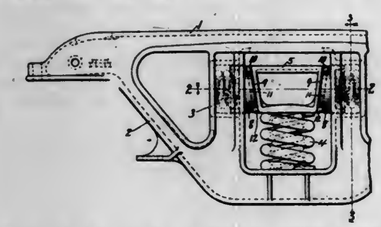
said contact spring, and mechanical means arranged to subsequently effect the movement of said lever whereby said contact spring is restored to normal.

1,452,528. BRAKE. JOHN M. ROHLFING, Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 15, 1922. Serial No. 552,955. 10 Claims. (Cl. 188—161.)



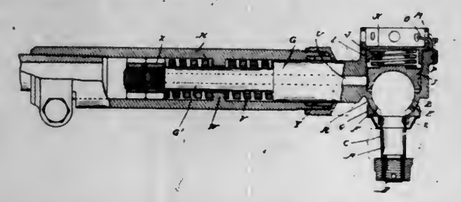
1. In a brake, brake heads, a member connected to one of said brake heads, toggle arms connecting said member and the other brake head and means to operate said toggle arms.

1,452,529. CAR TRUCK. ROBERT J. SCHEIBLI, Jr., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 4, 1921. Serial No. 512,797. 10 Claims. (Cl. 105—197.)



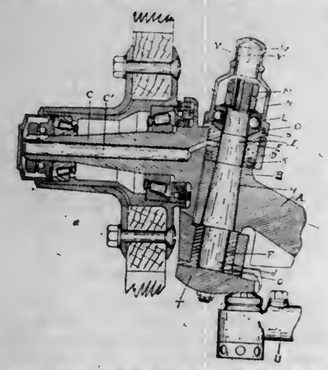
2. In a car truck, a bolster, yielding supporting means for said bolster and yielding means opposing transverse movements of said bolster adapted to aid in supporting said bolster.

1,452,530. UNIVERSAL JOINT. EARL H. SHERBONDY, Detroit, Mich., assignor to Sidney D. Waldon, Detroit, Mich. Filed Apr. 9, 1920. Serial No. 372,643. 4 Claims. (Cl. 287—90.)



1. In a universal joint, the combination with a member having a shank and a spherical head, of a member apertured for the passage of said shank therethrough and provided with a semi-spherical socket bearing at one end of said aperture for engaging said spherical head, a bearing member for the opposite side of said head, said apertured member having an outer spherical face concentric with said head, a segmental spherical shoe sleeved on said shank and engaging said outer spherical face forming a seal therefor, and means for resiliently pressing said shoe against said outer spherical face.

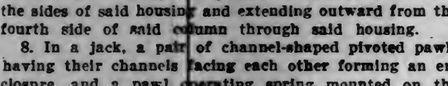
1,452,531. STEERING KNUCKLE FOR MOTOR VEHICLES. EARL H. SHERBONDY, Detroit, Mich., assignor to Sidney D. Waldon, Detroit, Mich. Filed Apr. 15, 1920. Serial No. 374,047. 4 Claims. (Cl. 280—96.1.)



1. In a steering knuckle for vehicle axles, a steering axle bearing, a stub axle provided with a bifurcated pivot

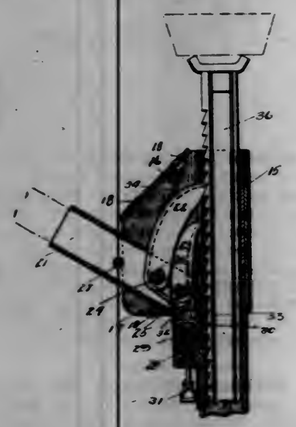
bearing embracing the steering bearing, ears on said furcations, a pivot pin connecting the bearings, a cap housing the pivot pin and having ears in registration with the ears on the furcations, means for rigidly securing said ears to each other, and a rock arm integral with said cap member.

1,452,532. VEHICLE CHASSIS. EARL H. SHERBONDY, Detroit Mich., assignor to Sidney D. Waldon, Detroit, Mich. Filed Apr. 20, 1921. Serial No. 463,004. 17 Claims. (Cl. 267—31.)



2. In a chassis, the combination with a hollow member forming a structural element of the frame, of a spring, a casing for said spring, a pivotal connection between said spring and frame, and means for feeding lubricant from said hollow member to said pivotal connection and into said casing for the spring.

1,452,533. JACK. SAMUEL A. SNELL, St. Louis, Mo., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 24, 1921. Serial No. 524,614. 8 Claims. (Cl. 254—111.)

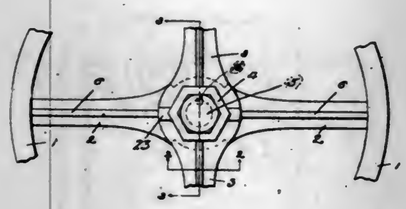


3. In a jack, a vertical body member comprising a metal plate bent to form a hollow rectangular column, a rectangular housing for the jack operating mechanism comprising a metal plate surrounding said column and gripping three sides thereof extending laterally from the fourth side and there braced transversely at top and bottom, and an operating handle fulcrumed between the sides of said housing and extending outward from the fourth side of said column through said housing.

8. In a jack, a pair of channel-shaped pivoted pawls having their channels facing each other forming an enclosure, and a pawl operating spring mounted on the pawl pivots and wholly positioned between the channel like walls of said pawls.

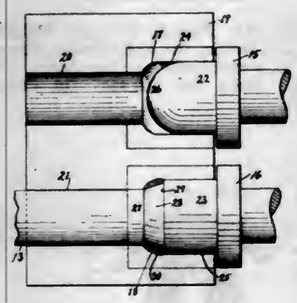
1,452,534. STEERING WHEEL. SAMUEL A. SNELL, St. Louis, Mo., assignor to Harry W. Bundy, Detroit, Mich. Filed May 18, 1922. Serial No. 561,410. 8 Claims. (Cl. 74—33.)

1. A steering wheel comprising a rim, overlapped spokes having interengaging elements at their overlapped portions and provided with non-circular bosses aligned axially of the wheel, a hollow hub fitting in said bosses,



and a transverse element fixed in said hub provided with a key slot paralleling the axis of the wheel and adapted to engage a steering shaft key.

1,452,535. MANUFACTURE OF BEARING RINGS. CHARLES F. SULTEMEYER, Oak Park, Ill., assignor to Chicago Manufacturing and Distributing Co., a Corporation of Illinois. Original application filed June 23, 1919, Serial No. 306,058. Divided and this application filed Aug. 7, 1920. Serial No. 401,987. 1 Claim. (Cl. 29—156.)

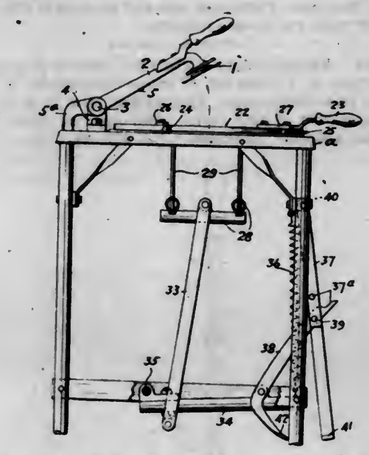


The method of forging annular high carbon steel or steel alloy machine wearing parts to substantially finished dimensions which consists in upsetting the end of a solid bar of the selected steel, punching out the central portion of the upset end of the bar while attached to the bar, radially expanding the ring thus left between punch and die members substantially conforming in shape with the interior and exterior surfaces of the part to be produced and then compressing the ring in the direction of its axis while held between the said punch and die members.

1,452,536. CREASING MACHINE. FREDERICK THOMAS, Philadelphia, Pa. Filed Apr. 20, 1922. Serial No. 555,673. 2 Claims. (Cl. 223—15.)

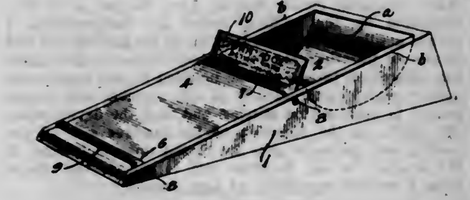
1. In a creasing machine the combination of a holding foot or plate contoured for the outline of the article to be creased, a frame having a margin contoured for cooperation with the rim of the plate or foot to receive the edge portion of the fabric therebetween and having central space for the accommodation of the body of the fabric

to protect it from being pressed, dies for creasing the edge portions of the fabric, means for shifting the dies



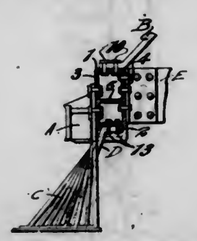
toward the center of the foot or plate and over the top thereof, and devices for pressing the dies toward the plate or foot.

1,452,537. WRITING TABLET. EDMOND J. TOAL, Minneapolis, Minn. Filed Feb. 20, 1922. Serial No. 537,916. 4 Claims. (Cl. 281—6.)



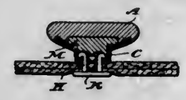
1. A writing tablet comprising a base member having its upper surface cut away to form a recess in which a roll of paper may rest, a tablet portion on the upper surface of said base member adjacent said recess and over which a strip of paper from said roll may be drawn, and means for guiding the strip from the roll over said tablet portion.

1,452,538. PILOT BEAM. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 8, 1922. Serial No. 580,396. 9 Claims. (Cl. 103—173.)



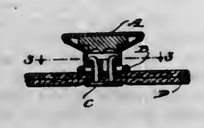
8. In a one-piece pilot beam, vertical walls, horizontal walls, integral perforated bosses on the interior of said walls and spaced from the ends thereof for bolts securing extraneous members, and openings in said horizontal walls adjacent to said bosses to permit access to the latter.

1,452,539. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 23, 1922. Serial No. 545,924. 4 Claims. (Cl. 24—95.)



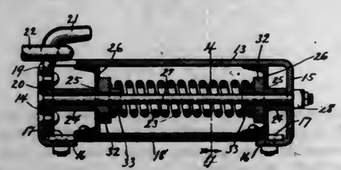
1. A button of the class described comprising a non-metallic body portion, a hollow hub interlocking with and carried by said body and provided with an imperforate base having a circular groove therein, a die carried by said body portion projecting within said hollow hub and having the upsetting face confronting and adjacent the said base and adapted to upset the prongs of a fastener against said base.

1,452,540. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 23, 1922. Serial No. 545,925. 2 Claims. (Cl. 24—95.)



1. A button of the class described comprising a base formed with a bottom plate, a hollow upstanding shank carried by said bottom plate, said shank provided at its upper extremity with an outstanding ledge, a button head comprising a hollow hub formed with an inturned lower edge slidably engaging the shank of the base and limited in its movement with respect thereto by said bottom plate and said outstanding ledge, the head of said button above said hub outwardly flared and including a top plate, a die located within said head resting against said top plate and comprising a die head extending down through the hollow hub and held in position thereby, said die head provided with a die face having a circular groove with a central projection, said die face adapted to receive the prongs of a staple fastener thereagainst and to spread and turn said prongs down directly upon the outstanding ledge of the shank of the button base.

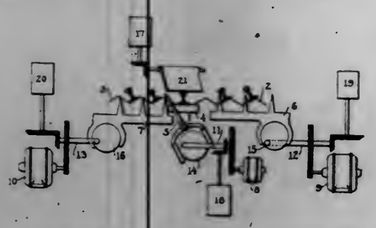
1,452,541. DRAFT AND BUFFING MECHANISM. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 16, 1921. Serial No. 452,832. 6 Claims. (Cl. 213—7.)



1. The combination with an end sill and adjacent crosstie member of a car underframe, of a draft and buffing mechanism comprising a yoke member having depending foot portions embracing said framing members,

guide means extending under the framing members and connecting said foot portions, and yoke anchorage means connecting said end sill and crosstie member and engaging said guide means.

1,452,542. MOTOR CONTROLLER. CHARLES W. YERGER, Washington, D. C., assignor to The Cutler-Hammer M'f'g Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 18, 1918. Serial No. 267,308. 12 Claims. (Cl. 198—20.)



1. In a controller for motor driven handling devices, in combination, means providing for cyclic operations of the controlled device including motor control means subject to control through independent sets of instrumentalities, said sets being adapted to participate successively in the control and selectively throughout equal ranges of operation of the controlled device and means to act automatically upon said instrumentalities during operation of the device for rendering effective a set for participation in the control throughout the next cyclic operation and thereafter rendering ineffective the set participating in the current operation for terminating such operation, and independently controlled means to act upon said instrumentalities for timing the initiation of the next cyclic operation.

1,452,543. FIRE ESCAPE. CECIL C. ABBOTT, Harbor Springs, and WILLARD EARL BASSETT, BERT L. BASSETT, and IRVIN L. BASSETT, Detroit, Mich. Filed Feb. 24, 1921. Serial No. 447,428. 1 Claim. (Cl. 188—185.)



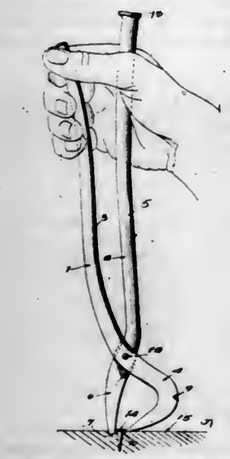
The combination of a main shaft, means for rotating said shaft, a governor comprising a stationary peripheral wall, a rotatable disk, gearing connecting said disk with the main shaft for rotation in one direction, governor shoes slidably mounted upon said disk and adapted to engage the peripheral wall, dogs each pivotally mounted between its ends upon said disk and pivotally attached at one end to the shank of the adjacent governor shoe, the opposite end of the dogs being free and having hooked terminals, and governor arms mounted upon the disk for rocking movement and provided with hooks engaging under the free ends of the dogs whereby to actuate the said dogs and move the shoes outwardly.

1,542,544. EMBROIDERY NEEDLE. FENNER B. BAKER, New York, N. Y., assignor, by mesne assignments, to Superior Hand Embroiderer Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 25, 1920. Serial No. 405,943. 10 Claims. (Cl. 112—80.)



1. An embroidery needle including a holding means, a fabric engaging means forming part thereof, a member supported by the holding means for reciprocation, a curved needle having a perforation at its pointed end and means on its other end for connection to the said member, whereby a thread may be inserted in said needle and upon repeated reciprocations of said member said needle caused to make tufted stitches and feed the device along the fabric in the direction of the concave side of the needle, and means to grip the thread upon movement of the member in one direction and to release the thread upon a reverse movement of said member.

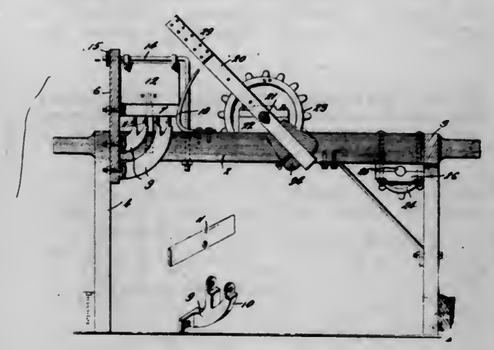
1,452,545. NAIL PULLER. JOSEPH BENSON BRADLEY, Miami, Fla. Filed Mar. 17, 1922. Serial No. 544,512. 4 Claims. (Cl. 254—22.)



1. A tool of the character described comprising two longitudinal members, each embodying a handle portion,

and a jaw portion, said members being pivotally connected intermediately of their ends so that the jaw portions terminate in proximity to each other, the jaw portions of one member being curved so that the middle portion thereof is relatively remote from the second jaw portion and the free end of the latter extends slightly beyond the corresponding end of the curved jaw portion.

1,452,546. VEGETABLE CUTTER. FRANK G. BREWER, Hunter, N. Dak. Filed Apr. 12, 1922. Serial No. 551,949. 3 Claims. (Cl. 146—7.)



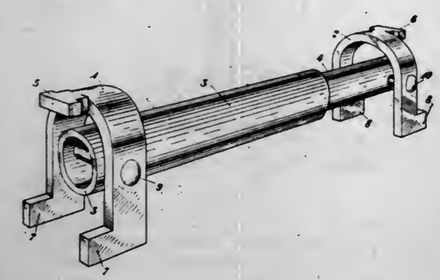
2. A vegetable cutter including a plurality of cutter blades, disposed angularly relative to one another, a presser member adapted to co-operate therewith and including a plurality of spaced oppositely disposed blocks, all of said blocks being spaced from each other to permit the passage of said blades, and the lower faces of said blades being inclined to provide the underface of the presser member with an upwardly tapered recess adapted to engage a vegetable to center the same upon the cutter blades.

1,452,547. INSULATED WHEEL STRUCTURE. ISAAC A. CALL and JOSEPH C. CALL, New York, N. Y., assignors, by mesne assignments, to The Ideal Automatic Train Control Company, Dover, N. J., a Corporation of New Jersey. Filed June 22, 1922. Serial No. 570,090. 3 Claims. (Cl. 295—11.)



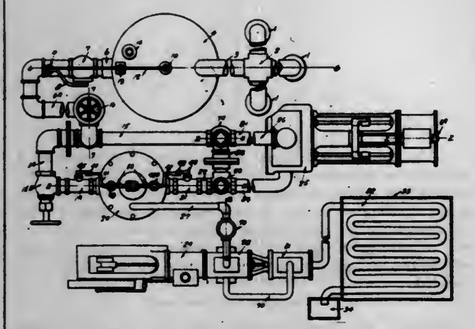
1. In a wheel, a wheel body, a tire, a suitable insulating material interposed between the wheel and the tire, a ring for securing the tire in position relative to the wheel body, and means formed integral with the wheel body and adapted to engage the ring to retain the tire in position relative to the wheel body.

1,452,548. MANHOLE-PLATFORM SUPPORT. CARLTON N. CONLEE, Chicago, Ill., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 22, 1922. Serial No. 562,929. 8 Claims. (Cl. 304—1.)



1. A manhole platform support including two identical units, each unit comprising two telescoping pipe sections and two saddles fixed one to each of said pipe sections, said saddles bearing extensions designed to engage with the manhole walls.

1,452,549. APPARATUS FOR TREATING OILS FROM FLOWING WELLS. RUDOLPH CONRADER, Erie, Pa. Filed May 20, 1920. Serial No. 382,758. 4 Claims. (Cl. 183—34.)

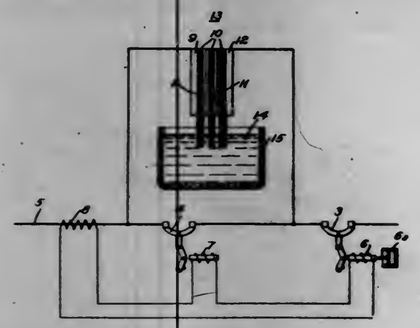


1. In an apparatus for treating oils from flowing wells, the combination of a separator taking off the free gas as the oil is delivered; a second separator operating under a partial vacuum to which the oil is delivered by the first-mentioned separator; means for taking off the gas freed from the oil under the partial vacuum; a pump for drawing oil from the second separator; and means controlling the pump to draw off the oil in proportion to the delivery of oil to the second separator.

1,452,550. CIRCUIT INTERRUPTER. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1921. Serial No. 493,238. 3 Claims. (Cl. 219—63.)

1. A resistance device comprising a pair of spaced terminal members, a plurality of spaced capillary members interposed therebetween, and corrugated members bridg-

ing the spaces between the capillary members, the capillary members being saturated with a salt solution



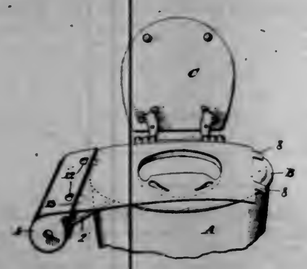
that is adapted to evaporate when current traverses the member, to thereby increase the resistance thereof to the passage of current.

1,452,551. SAW CLAMP. LOUIS BUTTERFIELD FLAGLER, Butte, Mont. Filed June 23, 1919. Serial No. 306,042. 5 Claims. (Cl. 76—78.)



1. In combination, a jaw having means for engaging a support, a movable jaw mounted parallel to said first-named jaw, spring actuated means for connecting and normally holding said jaws in saw engaging relation, a strip of deadening material located along the inner surface of one of said jaws, and removable means for securing said deadening material to the ends of the jaw by which it is carried.

1,452,552. SANITARY SEAT COVER. LEO J. FERAR, Ithaca, N. Y. Filed Apr. 12, 1922. Serial No. 551,752. 2 Claims. (Cl. 4—13.)



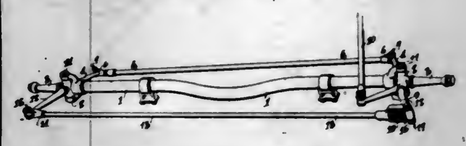
2. A sanitary seat cover comprising a blank having a body and an opening conforming to the opening in the seat except at its front portion where the blank has an inward extension connected at its front by a wide portion and at its rear corners by narrow strips to the main body but leaving the major part of the opening unobstructed, said extension forming an apron for the front of the seat when the narrow strips are torn in use by pressure of the body of the user.

1,452,553. DECHLORINATED CHLORINATED-GLYCERIDES AND DERIVATIVES THEREFROM. HENRY A. GARDNER, Washington, D. C. Filed Aug. 31, 1920. Serial No. 407,226. 9 Claims. (Cl. 134—56.)

3. As a new composition of matter, a partially dechlorinated chlorinated-glyceride.

5. A method of treating glycerides to improve their drying properties, comprising subjecting the glyceride to halogenation, and thereafter eliminating a part at least of the halogen.

1,452,554. AUXILIARY TIE ROD. SAMUEL LYONS GARDNER, Cedar Rapids, Iowa. Filed Oct. 31, 1921. Serial No. 511,759. 1 Claim. (Cl. 280—95.)



In a device of the character described, the combination with the axle, the steering knuckles, the converging knuckle arms and the tie rod inextensibly pivotally connected to said arms; of auxiliary diverging knuckle arms on the side of the axle opposite that on which the converging arms lie, and an auxiliary tie rod having a spring clevis connection to one auxiliary arm and an inextensible pivot connection with the other of said auxiliary arms, all being arranged whereby to take up slack and wear in the bearings of said rods and arms and to allow the pivotal points of the auxiliary arms and rods to separate and move together as the knuckles are turned one way or another, the pivotal points of connection between the respective tie rods and their respective arms of a knuckle lying in a straight line passing through the pivotal axis of the knuckle.

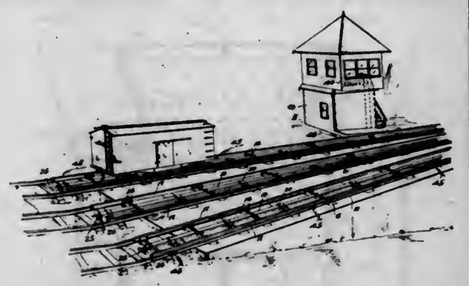
1,452,555. METHOD OF MAKING BRAKE LININGS AND THE LIKE. FREDERICK J. GLEASON, Cambridge, Mass., assignor of one-half to Max Brown, Boston, Mass. Filed Feb. 17, 1921. Serial No. 445,876. 6 Claims. (Cl. 91—70.)

1. The herein described method which consists in impregnating a cotton fabric with a baking japan solution, and subjecting the impregnated fabric to live steam under substantial pressure for a substantial interval.

4. The herein described method which consists in impregnating a fabric of vegetable fiber with a baking japan solution composed of a minor proportion of boiled linseed oil and a major proportion of gilsonite asphaltum and both dissolved in volatile solvent, and subjecting the impregnated fabric to live steam at a substantial pressure and a temperature materially in excess of 212° F. for a substantial interval.

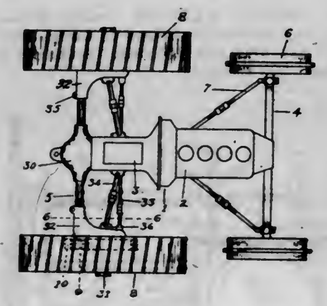
1,452,556. CAR-CONTROLLING MECHANISM. ALFRED HACKWORTH and JESSE HACKWORTH, Ironton, Ohio. Filed Feb. 24, 1921. Serial No. 447,396. 5 Claims. (Cl. 188—62.)

1. A car controlling mechanism including companion brake shoes, yokes embracing ties of a track and having upstanding end portions, rods extending through the end portions of the yokes to coact with the ties connecting the yokes therewith, rockers pivoted upon said rods and



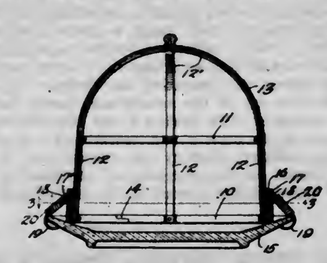
swingingly supporting the shoes between the track rails for movement to engage the wheels of a car upon said rails, and means for swinging said rockers.

1,452,557. TRACTOR. RAY HARROUN, Detroit, Mich. Filed May 21, 1920. Serial No. 383,054. 7 Claims. (Cl. 180—41.)



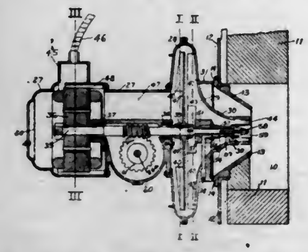
1. The combination with a vehicle frame, of front and rear axles upon which said frame is mounted, ground engaging wheels upon said axles, and means for varying the height of said frame relative to said wheels, including means for adjusting said front axle.

1,452,558. COVER FOR FOOD RECEPTACLES. WHITNELL HINDRIX JACKSON, Bowling Green, Ky. Filed June 15, 1922. Serial No. 568,646. 5 Claims. (Cl. 65—16.)



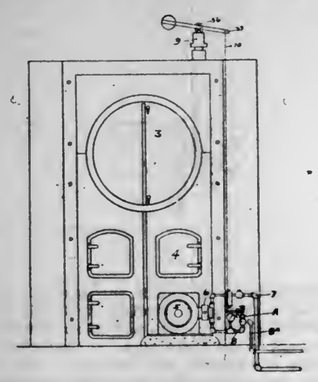
1. A dish cover comprising a frame, a covering for said frame, a band adapted to rest upon the dish and into which the lower portion of the frame is lowered, means for forcing the frame into pressing engagement with the inside face of the band, and means for securely holding the band against movement on the dish.

1,452,559. OIL-BURNER CONSTRUCTION. JESSE C. JOHNSON, San Francisco, Calif. Filed Mar. 23, 1922. Serial No. 545,989. 9 Claims. (Cl. 158—77.)



2. In an oil burner of the type specified, in combination with a pump casing provided with an opening, a driving shaft, a packing gland mounted on said shaft, a latch bar pivotally mounted on said casing, the inner end of the said latch bar being inclined and slidable over the driving shaft in spaced relation thereto, engaging the packing gland, the outer end of the latch bar extending exterior of the casing opening, means exterior of the casing for adjustment of the latch bar to the packing gland relative to the driving shaft, to prevent binding of the packing gland on the shaft and to prevent the leakage of oil.

1,452,560. PRESSURE-CONTROL VALVE. JESSE C. JOHNSON, San Francisco, Calif. Filed Apr. 17, 1922. Serial No. 554,161. 3 Claims. (Cl. 158—45.5.)

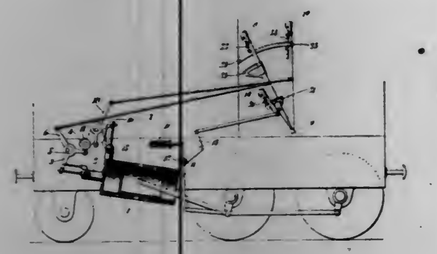


1. A control valve having a casing and a chamber therefor, a piston valve, a stem for the said valve having an annular flange integral therewith, a collar slidably mounted on the said stem, a coiled spring secured between the said flange and the said collar, normally urging the said valve stem downward to maintain the valve in its normal closed position, a sleeve slidably mounted on the said valve stem extending exterior of the said casing, of a bearing bracket carried by the said casing, a lever pivotally mounted in the said bracket adapted to urge the said sleeve downward upon the said valve stem.

1,452,561. CONTROLLING MEANS FOR INTERNAL-COMBUSTION-ENGINE PLANTS. EMIL KÖGL, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 22, 1914, Serial No. 862,922. Renewed Aug. 3, 1917. Serial No. 184,360. 21 Claims. (Cl. 60—16.)

1. In a combustion engine plant, the combination with a fuel valve, a fuel pump, a valve for admitting com-

pressed air for starting and also as a supercharge during combustion running, and suitable engine-driven means for operating said valves and pump, of separate members for controlling the timing of the said valves and the



action of the fuel pump, and means for interlocking said separate members for simultaneous operation in different relative adjustments, the control members being also operable independently of each other.

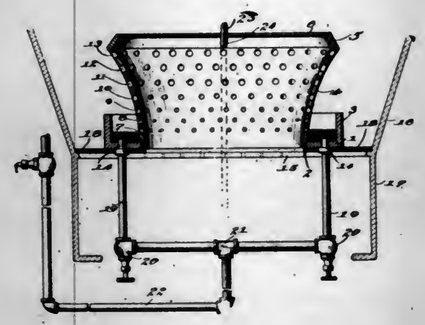
1,452,562. BAIL FOR RECEPTACLES. CHARLES A. KRAUSS, Philadelphia, Pa. Filed Aug. 22, 1921. Serial No. 494,253. 4 Claims. (Cl. 220—91.)



3. In combination, a receptacle having a bail receiving ear, said ear including a straight vertically disposed radially extending body portion having an elongated way therein disposed at an acute angle to the vertical, said way inclining downwardly and outwardly from the receptacle, the ear at the lower end of the way being provided with a laterally extending notch and a bail having a depending loop provided with an upper restricted open throat, said loop being slidably associated with the way to permit the loop to be moved downward on the ear in engagement with the notch and to permit the open restricted throat portion of the loop to frictionally engage the upper edge of the ear.

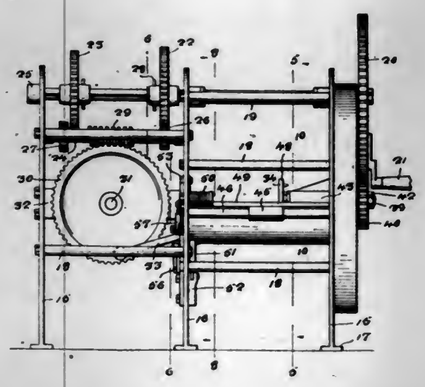
1,452,563. OIL BURNER. WILLIAM KARL LEWIS, Omaha, Nebr. Filed Feb. 13, 1922. Serial No. 536,127. 7 Claims. (Cl. 158—91.)

4. In a burner, a base comprising a flat bottom having a relatively large central opening formed therethrough and having an upstanding marginal flange at its outer edge, and a hollow body upstanding from the central opening through the bottom of the base and being formed to flare outwardly toward its upper end, said hollow body being closed at its upper end and having a plurality of spaced peripheral series of openings formed through its walls, the openings of certain of said series being larger than the openings of other series, the uppermost of said series comprising openings of the



largest size and the lowermost of said series comprising openings of the smallest size, said openings being directed downwardly and outwardly toward their outer ends.

1,452,564. SLICING MACHINE. GEORGE LYESO, Simpson, W. Va., assignor of one-half to George Hrib, Simpson, W. Va. Filed Oct. 25, 1922. Serial No. 596,807. 5 Claims. (Cl. 146—11.)

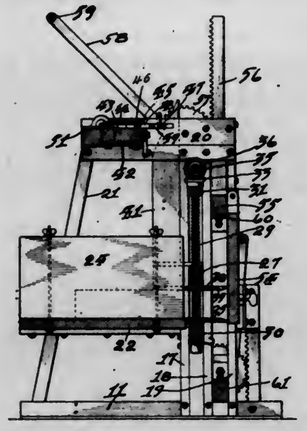


1. A vegetable cutting machine embodying a frame, a horizontally disposed feed trough, a cutter at one end of the trough, a feeding member movable longitudinally of the trough, means for operating the cutter, means including a pitman for operating the feeding member, a closure for the top of the trough and means including a pitman operated slide having a slot therethrough for the passage of the pitman and operatively connected to the feeding member, whereby the closure will be automatically closed at the beginning of the feeding movement and automatically opened at the end of said movement.

1,452,565. BINDING MACHINE. CHARLES F. MCBEE, Athens, Ohio, assignor to The McBee Binder Company, Athens, Ohio. Filed Dec. 30, 1918. Serial No. 269,010. 4 Claims. (Cl. 1—1.)

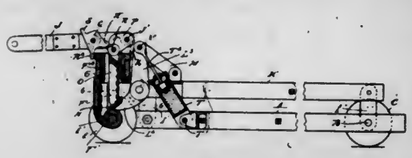
4. In a binding machine designed to employ nails as a securing medium for the volume, presser plates with orifices therein designed to contact with the upper and

lower surfaces of the volume, said presser plates having their forward ends beveled outwardly from the volume to receive the flanges of the back over the covers to a point beyond the line of the orifices in the presser plates, and means to drive binding nails downwardly through



the orifices in the upper presser plate and means to drive binding nails upwardly through the orifices in the lower presser plate, all of said nails passing through their respective side of the back and their respective cover and more than half way through the volume, substantially as shown and described.

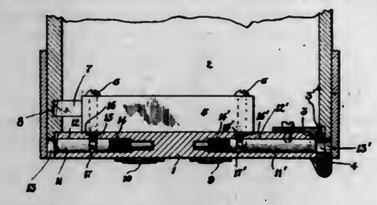
1,452,566. LIFTING TRUCK. HENRY F. MARTIN, Detroit, Mich., assignor to Detroit Hoist and Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 14, 1921. Serial No. 507,619. 7 Claims. (Cl. 254—10.)



1. A lifting truck comprising a wheeled frame having a steering wheel, a loading frame adjustable vertically upon said wheeled frame, a mounting for said steering wheel having a tubular upper portion swiveled in the wheel frame, a handle for said truck pivoted upon said swiveled member, a thrust bar arranged within said tubular portion of the swivel member, a connection between said thrust bar and the handle for actuating the former downwardly through downward swinging of the latter, and a mechanism for elevating the loading frame actuable by said thrust bar including an element upon which the thrust bar bears freely and a connection between said element and said loading frame.

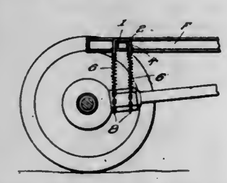
1,452,567. AUXILIARY LOCKING BOLT. CHARLES HENRY MILLER and ALEXANDER N. SCOTT, Canton, Ohio, assignors to The Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 9, 1921. Serial No. 499,392. 6 Claims. (Cl. 109—3.)

1. A spring actuated auxiliary locking bolt on a safety deposit box door or the like and having a recess therein, an ordinary lock secured to the door and having means fixed thereon normally engaging in the recess to hold



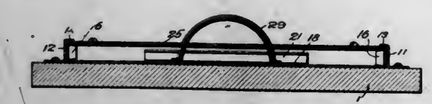
the bolt in retracted position and arranged to release the bolt when the lock is displaced.

1,452,568. SHOCK ABSORBER. WILLIAM R. MORTON, Havre, Mont., assignor of one-half to Victor R. Griggs, Havre, Mont. Filed Nov. 4, 1921. Serial No. 512,792. 1 Claim. (Cl. 267—60.)



A shock absorber for motor vehicles comprising a transversely extending bar adapted to be connected with the chassis of a vehicle forwardly of and in close proximity to the differential housing of the vehicle, a pair of spaced inverted yoke-shaped suspension elements fixed to said bar, a pair of expansible and contractile members depending from and having their upper ends connected to the legs of each of said elements, and a pair of spaced flexible members adapted to extend around the housing of the drive shaft of the vehicle and each having one end connected to the lower end of one of the expansible and contractile members depending from a suspension element, and its other end connected to the lower end of an expansible and contractile member depending from the other suspension element.

1,452,569. LUBRICANT DEMONSTRATOR. HENRY A. NEALLEY, Newton, Mass. Filed June 1, 1922. Serial No. 565,277. 4 Claims. (Cl. 35—16.)

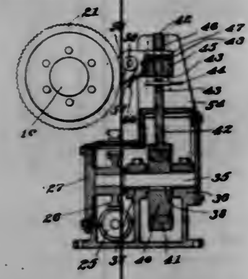


1. A lubricant demonstrator for graphite, greases, oils and the like comprising a base provided with a plurality of channels having closed ends, and a freely slidable member positioned in each channel, and having manually graspable means for sliding said member, and adapted to receive a slight charge of lubricant between its under surface and the surface of the channel, whereby the lubricating quality of the applied lubricant may be tested by such manual manipulation.

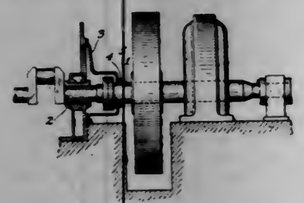
1,452,570. DRIVING MECHANISM. OSCAR O. NYGAARD, Milton, Mass. Original application filed June 15, 1918, Serial No. 240,160. Divided and this application filed Feb. 25, 1919, Serial No. 279,057. Renewed Sept. 22, 1922. Serial No. 589,904. 3 Claims. (Cl. 74—54.)

1. A pawl and ratchet driving mechanism consisting in a reciprocable member, a cross-head through which

said member slides, adjustable means to effect a lifting of the cross-head, and a driving pin carried by the reciprocable member to effect a driving of the pawl and ratchet equal to the distance said cross-head is lifted.

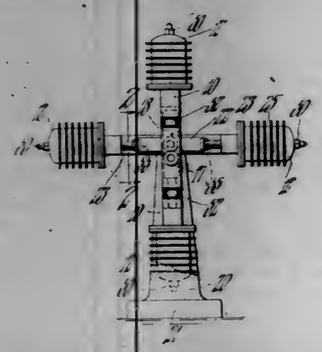


1,452,571. MEANS FOR CHECKING THE WEAR OF SHAFT BEARINGS. OSCAR W. PFEFFER, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo., a Corporation of Missouri. Filed Jan. 14, 1920. Serial No. 351,504. 4 Claims. (Cl. 33—168.)



1. The combination with a machine comprising a rotary shaft and a bearing therefor, of an index means set in a fixed position proximate to a part of the shaft adjacent the bearing and in the line of the bearing wear, the surface of the index proximate to the shaft being spaced from the shaft a distance suited for measurement by flat feeler gauges.

1,452,572. ENGINE. HAROLD T. PROSSER, Chicopee Falls, Mass. Filed Jan. 21, 1922. Serial No. 530,959. 12 Claims. (Cl. 121—59.)

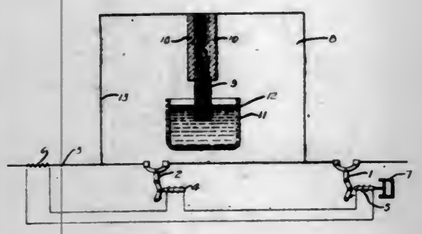


1. An engine comprising two rotors, one mounted eccentrically relatively to the other, cylinders carried by each of said rotors, pistons in said cylinders, and means constructed and arranged to convert relative radial movement of said cylinders and their respective pistons into rotary movement of said rotors.

1,452,573. ELECTRODEPOSITION OF TIN. LOUIS D. SIMPKINS, Brooklyn, N. Y., assignor to National Lead Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 10, 1922. Serial No. 535,591. 8 Claims. (Cl. 204—17.)

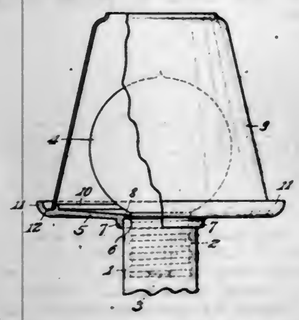
1. An electrolytic bath for depositing tin, containing a tin-salt solution and small amounts of beta-naphthol and a colloid.

1,452,574. CIRCUIT INTERRUPTER. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1918. Serial No. 242,625. 10 Claims. (Cl. 219—63.)



1. A current-limiting device comprising two spaced conductor members, a vessel containing a body of conducting fluid, and a member interposed between the conductor members and having one of its portions extending into the fluid, the said interposed member being of fluid-absorbing material.

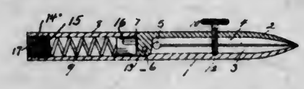
1,452,575. HOLDER FOR CANDLE SHADES. MORGAN OTT TAYLOR, Wheeling, W. Va., assignor to H. Northwood Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Aug. 21, 1922. Serial No. 583,205. 3 Claims. (Cl. 240—111.)



1. A support for candle shades, comprising, in combination with a candle having a lamp socket therein, a centrally apertured glass member provided with a shade seat thereon, means integral with said member for preventing lateral shifting of the seated shade, and an integral collar formed on the under side of said member for embracing the upper end portion of the candle, said collar being concentric with and spaced from said aperture to provide a ledge for seating upon the candle.

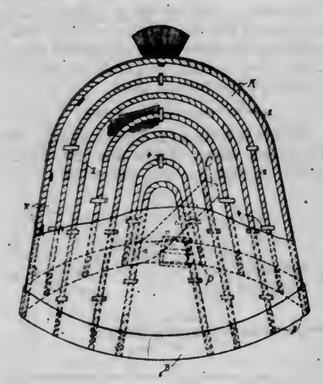
1,452,576. DRAWING PEN. CHARLES W. THOMAS, Cleveland, Ohio. Filed June 2, 1919. Serial No. 301,344. 2 Claims. (Cl. 120—100.5.)

2. In a drafting pen, a stationary blade having a threaded bore in its butt end, a swinging blade pivotally connected with said stationary blade adjacent said bore and provided adjacent its pivot with a cam face, a member mounted within the bore, a compression spring



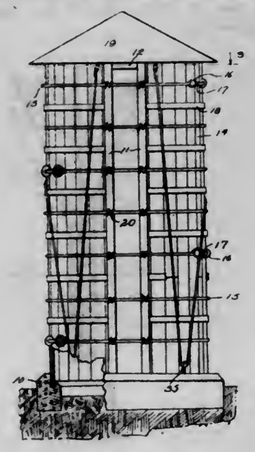
within the bore projecting said member for engagement with said cam face and means engaging the thread of said bore for adjusting the compression of said spring.

1,452,577. DEVICE FOR PRODUCING WAVES IN THE HAIR. GEORGE W. TURPIN, Cleveland, Ohio. Filed Feb. 20, 1922. Serial No. 537,915. 3 Claims. (Cl. 132—31.)



1. A head gear, a flexible body, and a series of flexible cords distributed along the inner side of the body whereby waves may be impressed on the hair.

1,452,578. SILO STRUCTURE. FRANK J. VAN COTT, Unadilla, N. Y. Filed Mar. 20, 1922. Serial No. 545,117. 7 Claims. (Cl. 20—1.4.)



1. A silo structure including a base, a door frame thereon, a plurality of wooden staves arranged on said base to form a circular wall structure, means for preventing the expansion of the wall structure, means arranged on the interior of silo wall for preventing inward movement thereof, including a number of filler members arranged to have their ends abut against each other, rods extended through the wall, flexible elements connecting the inner ends of the rods together and means, rotatable on said flexible elements, for drawing the rods towards the vertical center of the silo structure.

1,452,579. PUMP. CHARLES A. WAITZ, Rouseville, Pa. Filed Feb. 16, 1920. Serial No. 359,112. 10 Claims. (Cl. 103—179.)



1. In a pump, the combination of a tubing; a working barrel within the tubing; a plunger within the barrel; a cap on the barrel with lateral openings discharging into the tubing, said cap having clutch elements on its upper surface; a rod secured to the plunger and extending through the cap, said rod having an enlargement with a clutch element adapted to operate on the clutch element on the cap.

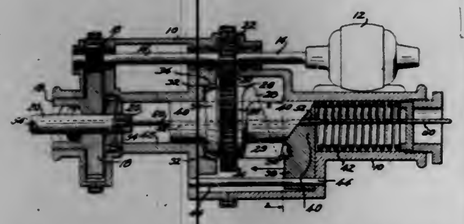
1,452,580. PUMP. CHARLES A. WAITZ, Rouseville, Pa. Filed Jan. 3, 1921. Serial No. 434,475. 2 Claims. (Cl. 103—220.)



1. In a pump, the combination of a working barrel; a tube larger than the working barrel within which the

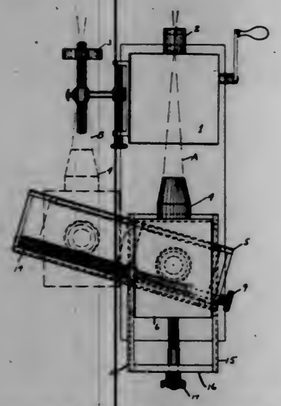
working barrel is placed, said tube extending below the working barrel and being of a size providing a space between the barrel and the tube; a pipe smaller than the barrel extending downwardly from the bottom of the barrel and delivering oil to the barrel, the tube protecting the barrel, and the space within the tube below the barrel forming a sand trap for sand settling past the barrel; and means for centering the barrel relatively to the tube.

1,452,581. ROCK DRILL. CLARENCE R. WELCH, Denver, Colo. Filed Jan. 17, 1920. Serial No. 352,116. 1 Claim. (Cl. 255—42.



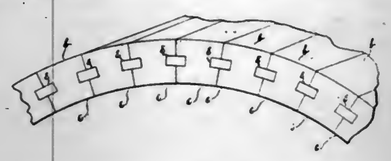
In a rock drill, a casing, a drill chuck rotatably mounted in one end thereof, a hammer slidably mounted in said casing, a cam member rotatably mounted on a cylindrical portion of said hammer, a lateral extension on said hammer adapted to be engaged by the cam, means cooperating with said extension to prevent rotation thereof, a gear on said cam, means for simultaneously rotating said gear and said chuck, and a spring within the casing and cooperating with said hammer, whereby said hammer will move quickly when released by said cam.

1,452,582. COMBINATION LAMP-HOUSE SUPPORT. WILLIAM WENDEHOLD, New York, N. Y., assignor, by mesne assignments, to Edwin J. Banzhaf, New York, N. Y. Filed Apr. 13, 1917. Serial No. 161,923. 2 Claims. (Cl. 88—24.



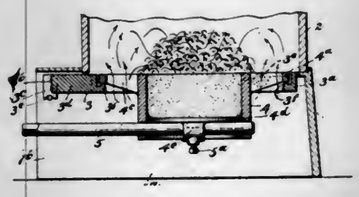
1. In combination with a picture projecting apparatus having a plurality of optical axes, a supporting structure, a slidable base and a slidable support, a lamp house revolubly mounted in said slidable support, a worm gear mounted on the lamp housing engaging a worm mounted in the slidable support, a gear on a common axis with the worm, another gear meshing therewith and having a common axis with a second worm and mounted in the supporting structure of the slidable support, the last named supporting structure being revolubly mounted in a slidable base, a worm gear on said base engaging the aforementioned second worm, and a knob on the shaft of one of the worms to operate the entire device, as and for the purpose described.

1,452,583. INTERLOCKING FIRE BRICK FOR ARCHES. WALTER J. WILLIAMS, Binghamton, N. Y. Filed May 9, 1921. Serial No. 468,006. 1 Claim. (Cl. 72—55.)



An arch for furnaces and the like, having vertical side walls and arcuate top wall, said arch being formed of wedge shaped bricks having locking recesses in each opposite side face, the vertical walls of the arch being formed by arranging each alternate brick of a row with its narrow face toward the interior of the arch, locking keys for engaging the recesses in the bricks the said keys breaking joint intermediate the ends of the brick, and means for securing the keys in place.

1,452,584. FURNACE-GRATE STRUCTURE. THEODORE ABEL, Cleveland, Ohio. Filed Nov. 29, 1921. Serial No. 518,500. 3 Claims. (Cl. 126—152.)



1. In a furnace grate structure, a shaker grate comprising an annular grate portion and a normally closed ash receiving receptacle.

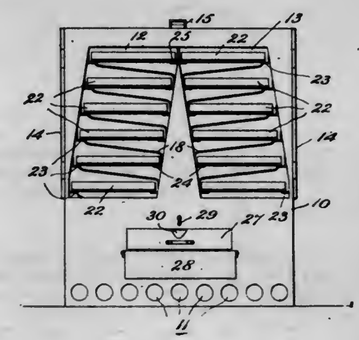
1,452,585. FEED FOR POWDER IN AUTOMATIC PACKAGING MACHINES. BENJAMIN F. ADAMS, Tenafly, N. J., assignor to American Machinery Company, Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 7, 1920. Serial No. 428,897. 2 Claims. (Cl. 226—25.)



1. An apparatus for transferring powder from a hopper to a package with no agitation or aeration whereby the mix and density of the powder are unchanged, comprising

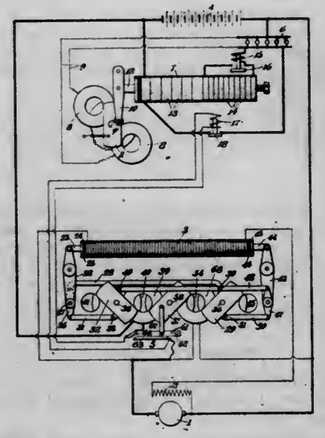
a drive shaft extending down into the hopper, a vertical feed casing of substantial length at the lower end of the hopper, an auger feed mounted in said feed casing and detachably engaging with the said drive shaft, and means for detachably securing the feed casing to the lower end of the hopper, whereby the auger feed and feed casing may be changed at will according to the height of the package being filled.

1,452,586. APPARATUS FOR DESICCATING FOOD. AGNES LOUISE ANDREA, New York, N. Y., assignor to Nichols Dehydrator Corporation, a Corporation of Delaware. Filed July 1, 1920. Serial No. 393,246. 6 Claims. (Cl. 34—39.)



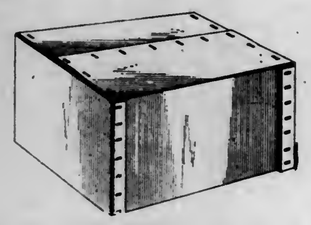
1. Apparatus for the purpose described comprising a casing having separate drying passages leading from a single main inlet flue, trays for the material located in said passages, and a water reservoir located under the inlet flue.

1,452,587. REGULATING AND CIRCUIT-CONTROLLING APPARATUS. ELI J. BLAKE, Buffalo, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Oct. 14, 1920. Serial No. 416,855. 18 Claims. (Cl. 171—313.)



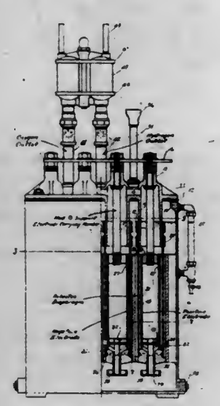
1. In apparatus of the class described, a resistance variable with its length, a lever fulcrumed between its ends and operating through one end upon said resistance, an equalizing member centrally pivoted to the other end of said lever, two links parallel with said resistance connected to the ends of said member, and an electro-responsive device connected to each of said links.

1,452,588. METHOD OF SEALING FIBER SHIPPING CASES. HERBERT R. BLISS, Niagara Falls, N. Y. Filed Sept. 19, 1921. Serial No. 501,620. 8 Claims. (Cl. 229—45.)



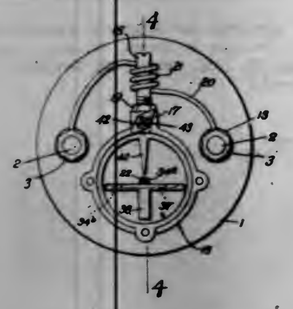
1. The method of sealing a shipping case having flaps on the side and end walls, which consists of turning in one pair of opposed flaps, overlapping the other pair of opposed flaps over the first-mentioned flaps and each other, and taking a T arrangement of stitches with the stem of the T along the line of overlap of the overlying flaps and the bar of the T at one end of the case where the overlying flaps overlap the underlying flap, the opposite end of the case having the overlying flaps stitched to the underlying flap along the end of the case, whereby the entire stitching forms an H.

1,452,589. ELECTROLYTIC CELL. DENNIS A. BRADING, Chicago, Ill. Filed Sept. 23, 1922. Serial No. 590,043. 5 Claims. (Cl. 204—5.)



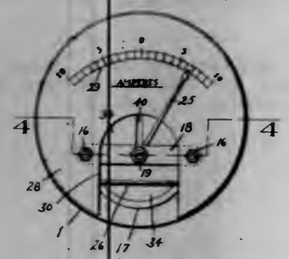
1. In an electrolytic cell for generating hydrogen and oxygen, the combination of a casing, a plurality of electrodes arranged in pairs positioned vertically in said casing, each electrode being cylindrical and each pair thereof arranged concentrically with respect to each other, a cylindrical diaphragm between each pair of electrodes and spaced apart therefrom, an insulating member in the inner electrode, a tubular member supported on said insulating member and being in open communication with the interior of the casing.

1,452,590. ELECTRICAL MEASURING INSTRUMENT. IVAR W. BROGGER, Newark, N. J., assignor to Standard Electric Manufacturing Company, a Corporation of New Jersey. Filed Apr. 26, 1919. Serial No. 292,994. 17 Claims. (Cl. 171—95.)



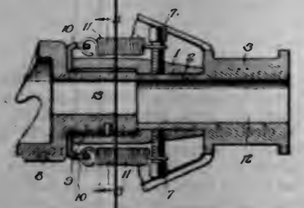
1. In a current measuring instrument, a solenoid through which the current to be measured passes, a core for said solenoid, a moving member in the field of said solenoid, and a flux directing member for said core adjustable laterally with respect thereto.

1,452,591. ELECTRICAL MEASURING INSTRUMENT. IVAR W. BROGGER, Newark, N. J., assignor to Standard Electric Manufacturing Company, a Corporation of New Jersey. Filed Apr. 26, 1919. Serial No. 292,995. 12 Claims. (Cl. 171—95.)



12. In a current measuring instrument, the combination of a base plate, a field coil in the form of a rectangular loop secured to said base plate in upright edgewise position, and a cylindrical damping box secured to said base plate with its longitudinal axial line perpendicular thereto and one side portion of itself projecting into said looped field coil, said damping box and field coil being independently secured to the base plate and independently removable therefrom.

1,452,592. ENGINE-CRANKING DEVICE. EMIL CAPOUCH, Cicero, Ill. Filed June 23, 1921. Serial No. 479,873. 6 Claims. (Cl. 74—33.)



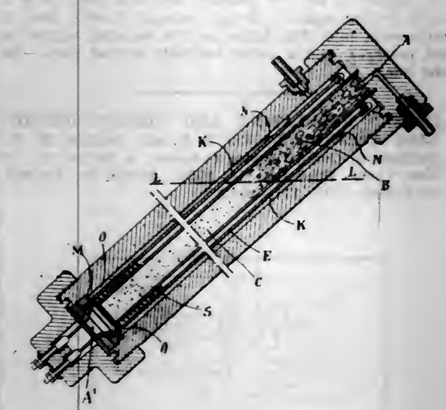
1. In a clutch device for cranking internal combustion engines, the combination of a clutch member, means to support said member for axial displacement to close the clutch, and a crank insertable in said member and removable therefrom after starting the engine, and springs to hold said member in normal position, said member having a sleeve fixed thereon and a yoke held in place on said member by said sleeve and the ends of the yoke being attached to said springs.

1,452,593. FLY FOR FLY FISHING AND SIMILAR USES. HORACE B. CHASE, Jr., Paris, France. Filed Aug. 4, 1922. Serial No. 579,946. 1 Claim. (Cl. 43—48.)



A fly comprising a hook and resilient wing members made to simulate the wings of an insect attached to the hook at their inner ends only and weighted at their outer ends.

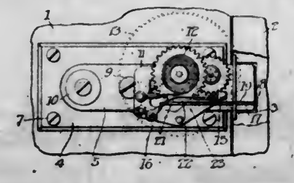
1,452,594. THERMALLY-INSULATED APPARATUS AND METHOD OF INSULATING THE SAME. GEORGES CLAUDE, Paris, France, assignor to Societe l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Filed Aug. 13, 1919. Serial No. 317,322. 13 Claims. (Cl. 23—21.)



1. The method of thermally insulating the pressure-sustaining wall of a chamber wherein an exothermic chemical reaction at high temperature and pressure is conducted, which comprises applying against the inner surface of the wall a medium possessing a low heat conductivity and maintaining the medium in a substantially liquid state during the reaction.

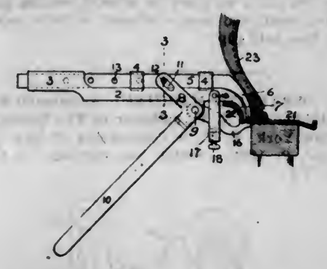
1,452,595. BURGLAR ALARM. JOSEPH I. CONNELLY, Chicago, Ill. Filed May 13, 1922. Serial No. 560,627. 6 Claims. (Cl. 116—8.)

4. The combination with a keeper of a locking and alarm device comprising a support, a locking bolt arranged on said support and movable relative thereto so as to be shiftable into and out of coacting relation with the keeper, an alarm including a spring motor and escapement detent, a hammer actuated by said detent, a shoulder formed on said detent, and a dog pivotally mounted on said locking bolt, one end of said dog being



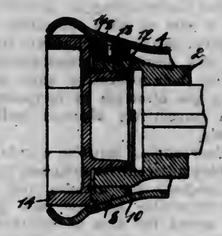
arranged to coact with said shoulder for normally locking said detent against operation, the other end of said dog being arranged to form a tripper movable transversely to said locking bolt.

1,452,596. TIRE TOOL. LEON DE FERNELMONT, Paterson, N. J. Filed Sept. 10, 1921. Serial No. 499,790. 8 Claims. (Cl. 157—6.)



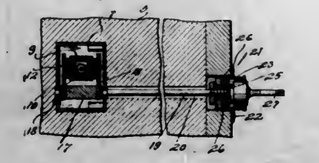
1. In a tire tool, the combination of two bars having an adjustable union whereby one may be adjusted longitudinally with respect to the other, said bars each provided with laterally extending jaws turned in the same direction and adapted to be brought together or separated according to the adjustment of the bars, a suitable clamp having a connection with one of the bars and its free end adapted to be brought into substantially alinement with the jaws when brought together, means for holding the clamp in relative position with respect to the jaws, and manually operated means having a connection with both of the bars for insuring a relative longitudinal adjustment thereto.

1,452,597. DEMOUNTABLE WHEEL. GEORGE E. GODDARD, Detroit, Mich., assignor to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed Sept. 3, 1919. Serial No. 321,336. 6 Claims. (Cl. 301—9.)



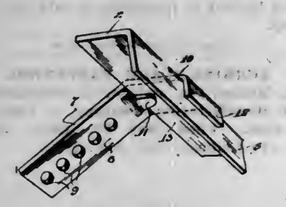
6. In a demountable wheel construction, the combination with an inner hub member and an outer hub member mounted thereon, of a locking ring for holding said hub members for rotation together, said locking ring comprising a two part piece, one of said parts keyed to said inner hub member and having a surface engaging said outer hub member, said other part screw threaded into said inner hub member but out of contact with said outer hub member and engaging, when in home position, said first mentioned part, and a hub cap also screw threaded into said inner hub member but out of contact with the screw threaded part of said locking ring when the hub cap is in home position.

1,452,598. SASH FASTENER. HIRAM C. GRAY, Bucyrus, Ohio. Filed Apr. 3, 1922. Serial No. 549,015. 2 Claims. (Cl. 292—169.)



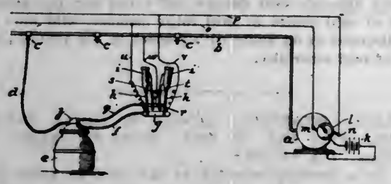
1. In a sash fastener, the combination with a casing for attachment to a window frame, of a hollow post located in the casing, a bolt slidably engaged in the post, said bolt having arms carried thereby, said arms being provided with lips, a head journaled transversely in the casing and having pins for slidably engaging said lips, a rod associated with the head, and means for rocking the rod to impart similar movement to the pins to cause the bolt to slide in said post.

1,452,599. ROOF LUG. HARRY C. HAMES, Columbus, Ohio, assignor to F. O. Schoedinger, Columbus, Ohio. Filed Mar. 24, 1922. Serial No. 546,259. 2 Claims. (Cl. 108—18.)



1. A roofing lug comprising an integral relatively angularly disposed arm and plate, a tongue located at the juncture of the arm and plate, and a lip carried by the free end of said plate.

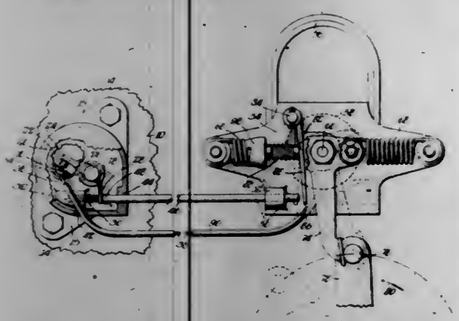
1,452,600. ACTUATING MEANS FOR MILKING-MACHINE PULSATORS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 17, 1922. Serial No. 529,845. 4 Claims. (Cl. 31—101.)



1. In a milking machine, the combination with the teat cups, of a pulsator valve adapted in its reciproca-

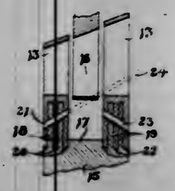
tions to produce pulsations in the teat cups, means whereby pneumatic forces tend to shift the valve, and electro-magnetic means adapted to resist such forces until a predetermined instant.

1,452,601. IGNITION SYSTEM FOR COMBUSTION ENGINES. WILLIAM C. HEATH, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed May 14, 1920. Serial No. 381,505. 1 Claim. (Cl. 123—149.)



In mechanism of the class described, a front frame of an oscillating magneto mechanism, arms extending forwardly from opposite sides of said frame, an armature shaft extending thru said frame, oscillating mechanism for said shaft detachably secured thereto, a cam mounted on the shaft between the front plate and the oscillating mechanism and detachably adjustably held in place by the oscillating mechanism, and means for firing an engine cylinder remote from the magneto said means being located in proximity to said cam and actuated thereby.

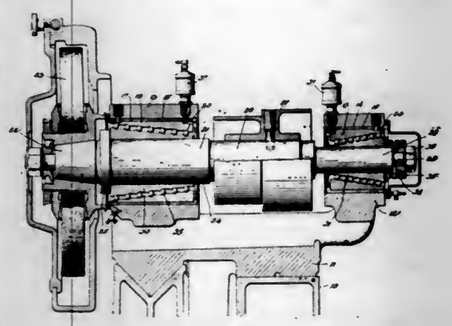
1,452,602. TURBINE-BLADE FASTENING. HERBERT T. HEAA, Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 10, 1921. Serial No. 468,412. 14 Claims. (Cl. 253—77.)



1. In a turbine blade structure, a rotor disc provided with annular radial flanges, blade members provided with tangs adapted to seat within said flanges, and pins passing through said flanges and tangs for the attachment of said blades to said rotor member, said pins being disposed at an angle with respect to the axis of rotation of said rotor disc.

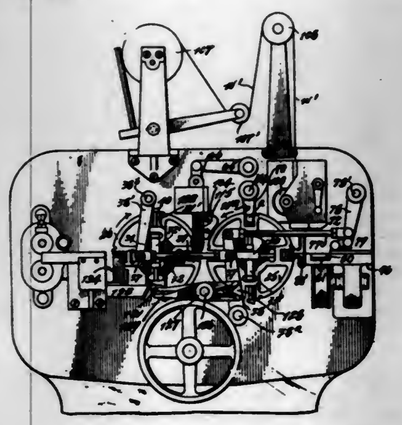
1,452,603. BEARING. HOWARD P. HIMES, Detroit, Mich. Filed Mar. 19, 1921. Serial No. 453,667. 3 Claims. (Cl. 64—38.)

3. In a grinding machine or the like, an arbor provided with means for attaching a grinding wheel thereto, a bearing for said arbor adjacent to the said means comprising a cone fixed to said arbor, said cone having a plurality of races, the successive races being of gradually increasing diameter from one end of the cone to the other, a cup having complementary races and sets



of antifriction members in said races, and spring means carried by the arbor on the side of said bearing opposite to said first mentioned means adapted to force said cone resiliently into said cup.

1,452,604. WRAPPING MACHINE. ARCHIBALD E. HOPKINS, Middletown, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 2, 1920. Serial No. 370,738. 8 Claims. (Cl. 93—7.)



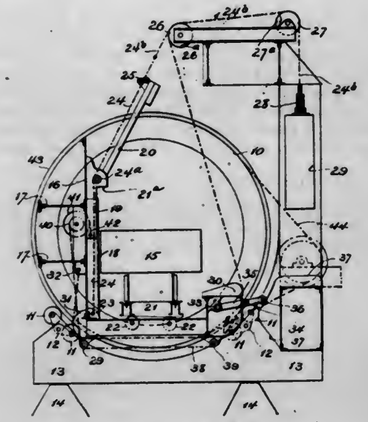
1. In a machine for wrapping an article of truncated-pyramidal form, a pair of alike oppositely disposed pivoted tucking fingers; means to reciprocate them relatively to the article, and means to simultaneously, progressively, impart to their operative ends movements in paths inclined to the direction of reciprocation, and in parallelism with respectively adjacent inclined opposite sides of the article.

5. In an article-wrapping machine a rotatory member, or turret, containing adjacent its periphery a pair of oppositely disposed pockets for articles and carrying an article-ejector reciprocable between said pockets in a path extending across the axis of rotation of the turret, and also carrying a plate extending radially from opposite sides of said axis in parallelism with said path, and means to constantly yieldingly press said plate into simultaneous frictional contacts with surfaces of the ejector which are located on opposite sides of said axis.

1,452,605. ARSENICAL COMPOUND. LINDLEY M. HUSSEY, Philadelphia, Pa., assignor to Joseph Philip Harmer, Philadelphia, Pa. Filed June 21, 1920, Serial No. 390,313. Renewed Aug. 23, 1922. Serial No. 583,936. 9 Claims. (Cl. 260—14.)

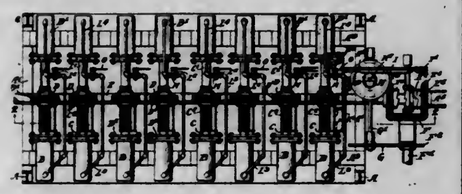
1. A non-poisonous compound suitable for therapeutical uses and herein identified as di-sodium monothyl arsonate, said compound characterized as a white deliquescent crystalline salt soluble in water forming substantially stable solutions, and which, when in solution and exposed to the air for a long period of time eventually decomposes into sodium carbonate and ethylarsonic acid.

1,452,606. CAR-DUMPING MACHINE. MILTON DAVID JONES, Cleveland, Ohio. Filed Oct. 20, 1921. Serial No. 508,950. 13 Claims. (Cl. 214—52.)



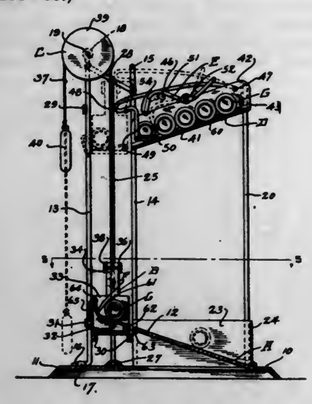
1. In a car dumping apparatus, the combination of a cylinder, means for turning the same, gravity clamps carried by the cylinder, each clamp having a shoulder to overlap the top edge of one side of the car body, means for automatically elevating the clamps as the cylinder approaches its normal position, automatically operating means for locking the clamps in their lowered position while the cylinder is turned to a position to dump the car and means for shifting the car laterally away from the clamp as the cylinder is turned to its normal position after having dumped the load.

1,452,607. ARTIFICIAL-SILK-SPINNING MACHINE. GEORGE JUER, Hopewell, Va., assignor to Tubize Artificial Silk Company of America, Wilmington, Del., a Corporation of Delaware. Filed Dec. 30, 1920. Serial No. 434,000. 14 Claims. (Cl. 18—8.)



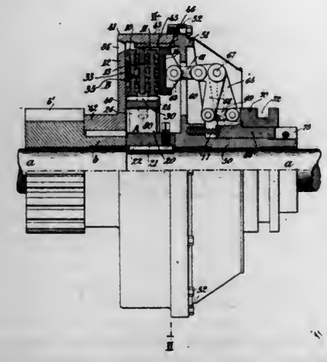
1. In a machine for forming artificial silk filaments, the combination with a supply conduit for the fluid to be formed into filaments of a series of spinneret headers each having a group of spinnerets equal in number to the number of filaments to be formed into a single yarn or thread and a series of pumps, one for each header, arranged to draw fluid from the supply conduit and force it into the connected headers.

1,452,608. TOY ELEVATOR. JOHN P. KIRST, Ohio, Ill. Filed Feb. 20, 1922. Serial No. 537,957. 6 Claims. (Cl. 214—99.)



1. In an elevator, an elevator shaft, an elevator car slidably mounted in the shaft, a cable connected to the car and trained about the pulley, a weight connected to the cable for normally holding the car in a raised position, a releasing means including a pair of arcuate arms, and a downwardly extending U-shaped member normally disposed in the path of the weights, the forward terminals of the arcuate arms being disposed in the path of the elevator car, means pivotally securing the rear ends of the arms to the loading platform, a weight checking means including a pair of levers pivotally secured intermediate their ends to the loading platform, forwardly and downwardly extending members formed on the forward ends of the lever for engaging one of the weights in rear of the weight engaged by the releasing member, and outwardly extending arms formed on the rear ends of the levers for engaging the arcuate portions of the arms of the releasing member.

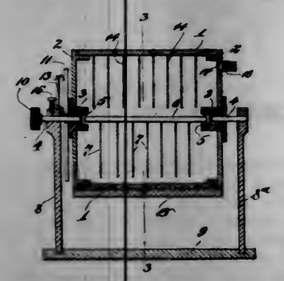
1,452,609. FRICTION CLUTCH. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed July 25, 1921. Serial No. 487,460. 1 Claim. (Cl. 192—69.)



A clutch comprising interposed friction disks, and carriers for said disks, one of said carriers being a central

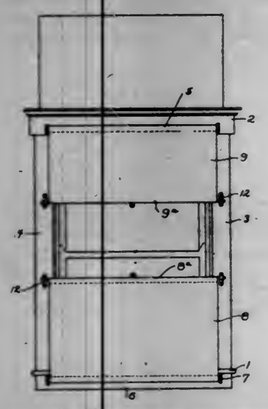
hub-member having a rim, an inner bearing part adapted to be fixed to a shaft and an intermediate web connecting said rim and bearing part, said rim having an opening therein for permitttting flow of a current of air to the inner faces of said disks, said other carrier being a drum having an opening therein to permit the outflow of air from the vicinity of the outer edges of said disks, and having a bearing at one side of said first-named carrier, a bearing sleeve at the opposite side of said first-named carrier having a flange, and means connecting said flange to said drum, and means mounted on said sleeve for pressing said disks together, said means comprising a toggle, a bracket on said sleeve adjustable toward said disks, said toggle being pivoted at one end to a disk, and at its other end to said bracket, an operating arm connected to said toggle, and a sleeve for moving said operating arm.

1,452,610. ELECTRICAL CONDENSER. MORRIS KLOSNER, New York, N. Y. Filed Sept. 2, 1920. Serial No. 407,740. 4 Claims. (Cl. 250—41.)



1. A variable condenser comprising a set of stationary leaves and an adjacent set of turnably adjustable leaves, and an air-tight casing for said sets and a weight for automatically maintaining said sets normally in non-interleaved relation, and means for adjusting said last named set whereby the pressure may be varied, the apparatus adapted to be interposed in an electrical circuit.

1,452,611. WINDOW SHADE. EDMUND H. LUNKEN, Cincinnati, Ohio. Filed June 17, 1919. Serial No. 304,829. 6 Claims. (Cl. 156—24.)



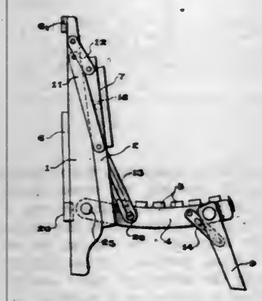
4. In a window shading device the combination with a lower and upper shade under constant tension, of stiffening bars in the free ends of the shades, and retaining hooks mounted at the sides of the window, said stiffening bars having extending pins at the sides of the shades and said hooks being open upwardly and downwardly, and the hook portions both upward and downward opening being of at least twice the width of the extending pins.

1,452,612. MOUNT FOR VEHICLE CURTAIN WINDOWPANES. JOHN M. MCCLOUD, Brooklyn, N. Y. Filed June 2, 1921. Serial No. 474,333. 3 Claims. (Cl. 296—145.)



1. In combination with a curtain of the character designated, a window mount therefor, comprising a tubular encasement frame formed with an insert slot on the inner side thereof and attached to an inturned marginal edge of said curtain, an elastic resilient window pane the edge of which is positioned in said encasement frame, and a gasket inserted in said frame and bearing against the edge of the pane, for the purpose described.

1,452,613. COMBINED SETTEE AND TABLE. JOSEPH N. MILLER, Brainerd, Minn. Filed Sept. 13, 1922. Serial No. 587,879. 3 Claims. (Cl. 155—43.)

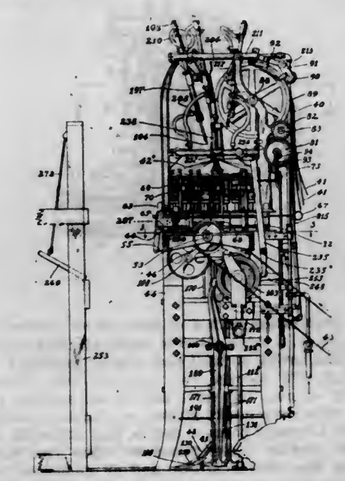


1. A foldable combined settee and table comprising spaced major members having dowel sockets, a leaf arranged at right angles to the major members and permanently connected to the outer edges thereof, swinging members pivotally connected to the inner or opposed sides of the major members, means connecting the swinging members together and adapted to form a seat, legs pivotally connected to the swinging members, slotted straps connecting the major members and the swinging members, slotted straps connecting the swinging members and their legs, legs associated with the major members and having dowel sockets in their outer edges, swinging links connecting the major members and said legs, and a shiftable leaf provided with dowel pins complementary to said sockets and adapted for use on the outer edges of the major members to form part of a table top and for use on the outer edges of the last mentioned legs to form a settee back.

1,452,614. SHOE POLISH. JULIUS H. T. OLSEN, New York, N. Y. Filed Dec. 3, 1921. Serial No. 519,657. 4 Claims. (Cl. 134—7.)

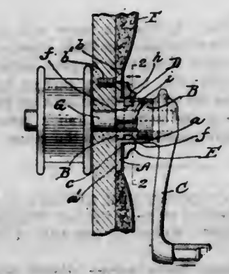
4. A white shoe polish consisting substantially of two ounces of gum arabic dissolved in two quarts of water, mixed with 12 ounces of zinc white.

1,452,615. WIRE-ASSEMBLING MACHINE. ERNEST A. PIGEON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 8, 1920. Serial No. 379,806. 74 Claims. (Cl. 173—244.)



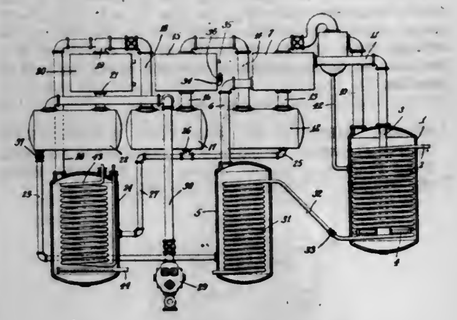
65. In a wire-covering machine, the combination of a group of wire-feeding cylinders and pistons, a controlling valve therefor, a group of wire cutters, a braider, a wire gatherer adapted to be opened and closed, a set of wire guides adapted to enter the braiding shed when said gatherer is open, a set of hooks adapted to draw the posterior ends of the wires out through the braiding shed, operating pistons and cylinders for said hooks, a controlling valve for said cylinders, a work feeder, and a rotary shaft having cam devices adapted to coordinate the action of the several-said instrumentalities substantially in the following order of operations from the braiding of the connecting sheath between adjacent units, viz: (1) stop work feed, (2) stop braiding, (3) project wire guides into operative position, (4) elevate wires, (5) retract wire guides, (6) close wire gatherer, (7) start braiding, (8) start work feed, (9) retract wire-feeding pistons, (10) stop work feed, (11) stop braiding, (12) cut wires, (13) open gatherer, (14) project hooks, (15) retract hooks, (16) start braiding and (17) start work feed.

1,452,616. OPERATING MEANS FOR SASH ADJUSTERS. LOUIS ROTH, New York, N. Y., assignor to Sterling Bronze Company, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1921. Serial No. 522,868. 5 Claims. (Cl. 292—347.)



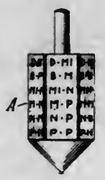
1. In an operating device of the class described, the combination of a fixed member provided with a male thread and a retainer aperture, a shaft actuator provided with a grooved bushing adapted for free rotation within the fixed member, a retainer in contact with the fixed member and fitting said groove in the bushing, and a collar screwed on the fixed member and concealing the retainer.

1,452,617. PROCESS OF AND APPARATUS FOR DISTILLING LIQUIDS. WALTER E. SANGER, New York, N. Y., assignor to William Garrigue & Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1921. Serial No. 450,998. 9 Claims. (Cl. 87—4.)



1. In distilling apparatus, the combination of a still, a concentrator, an evaporator, a vacuum pump connected to said evaporator, a superheater condenser, a cooler condenser, connections for passing water vapors from said evaporator through said superheater condenser and into said still, means for passing vapors of distilling liquid from said still through said superheater condenser, to superheat said water vapors and partly condense said liquid vapors, means for passing the uncondensed liquid vapors into said cooler condenser, to condense a further fraction of said liquid vapors, a third condenser, connected to said cooler condenser for condensing water vapor uncondensed in said first two condensers, connections for leading condensed liquid from said superheater and cooler condensers to said concentrator and a connection for leading condensed water from said third condenser to said evaporator.

1,452,618. GAME. WILLIAM L. SAYERS, Brooklyn, N. Y. Filed July 17, 1922. Serial No. 575,458. 2 Claims. (Cl. 46—56.)



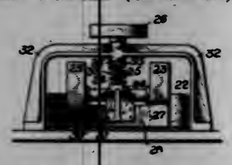
1. A device for use in playing an imaginary game of golf consisting of a polygonal body of the kind described, on the faces of which are arranged in two parallel columns characters which in the first column are in the same order and indicate the clubs used in playing the game and characters which in the second column are arbitrarily selected to indicate different clubs, and various data characteristic of a golf game.

1,452,619. COMPRESSION OF GASES. JAMES BUCKNER SPEED, New York, N. Y. Filed Apr. 27, 1920. Serial No. 376,979. 10 Claims. (Cl. 230—11.)



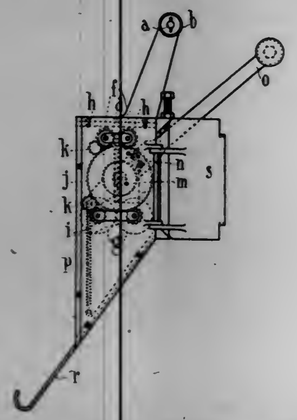
1. A method of augmenting the pressure of a gas, which comprises subjecting the gas to successive increments of pressure resulting from the application of centrifugal force thereto, while the gas is travelling in a plurality of paths oppositely directed about an axis of rotation.

1,452,620. METHOD OF TREATING WHITE LEAD. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Anaconda Lead Products Company. Filed Nov. 20, 1919. Serial No. 339,300. 7 Claims. (Cl. 134—67.)



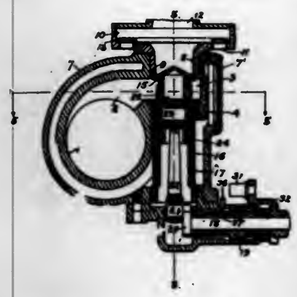
6. The process of producing commercial white lead for paint which consists of electrolytically depositing the salt in a highly pulverulent state, washing and drying the same, dry grinding the same until the oil absorbing capacity is substantially reduced, and finally grinding in oil in substantially the same manner as white lead produced non-electrolytically is ground.

1,452,621. MEANS FOR DETACHING AND DELIVERING LENGTHS OF PAPER. EDWARD STEPHEN, Manchester, England. Filed Sept. 14, 1922. Serial No. 588,251. 5 Claims. (Cl. 211—33.)



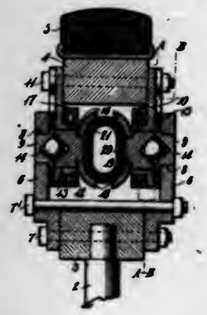
1. Means for detaching and delivering lengths of paper or the like from a roll, comprising two pairs of rollers, means for rotating the same with differential surface speeds, one pair of the rollers drawing the roll and the other pair separating the individual lengths and delivering the same, as set forth.

1,452,622. VALVE FOR INTERNAL-COMBUSTION ENGINES. ALFRED C. STEWART, Los Angeles, Calif. Filed May 3, 1920. Serial No. 378,499. 2 Claims. (Cl. 123—79.)



1. In combination with a cylinder of an internal combustion engine, a valve chamber communicating with said cylinder and having an inlet and exhaust passage, a valve controlling said passage and provided with operating means for opening the valve during the exhaust stroke and the succeeding intake stroke, an exhaust passage opposite the aforesaid passage and in line therewith to receive the exhaust gases therefrom when the valve is opened in the exhaust stroke, and an admission means for admitting air to said inlet and exhaust passage, said air admitting means being arranged to deliver the air laterally with respect to the said inlet and exhaust passage means, so that the incoming air is not interfered with by the outgoing exhaust gases.

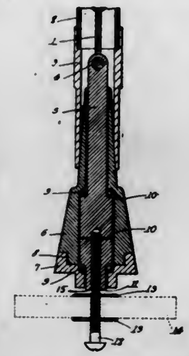
1,452,623. SPRING WHEEL. FREDERICK STITZEL, Louisville, Ky. Filed Oct. 13, 1922. Serial No. 594,287. 4 Claims. (Cl. 152—35.)



1. A spring wheel, having an inner rim and an outer rim, and flexible connections for these rims, consisting of overlapping housings extending toward each other from the inner and outer rim, bearings carried by said housings, rings carried by one of these sets of bearings, and interposed between the housings, and a non-metallic resilient medium interposed between the rings.

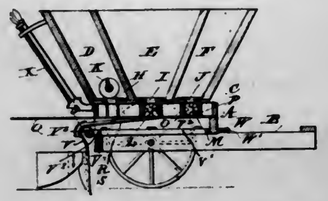
1,452,624. ATTACHMENT FOR ROTARY CLIPPER MACHINES. FREDRICK GORDON STUART, Washington, D. C. Filed Apr. 2, 1921. Serial No. 458,154. 2 Claims. (Cl. 51—241.)

1. An attachment for a rotary clipper machine, comprising a revolvable head engageable to the end of the flexible rotating chain of the clipper machine, a casing member and bearing for the revolvable head, said casing member being of frusto-conical shape and slidably detachable from and frictionally engageable on the collar of the rotary clipper machine, a collar secured to the end of



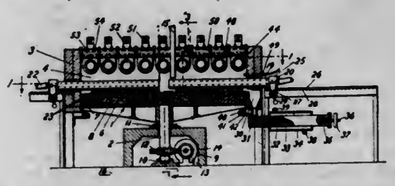
the casing, the revolvable head projecting slightly beyond said cap, and means for attaching a suitable operating member such as a buffing wheel to the end of the revolvable head.

1,452,625. COMBINED SEEDING MACHINE AND MANURE SPREADER. PETER TARGOSKY, Cleveland, Ohio. Filed Aug. 23, 1920. Serial No. 405,268. 4 Claims. (Cl. 111—8.)



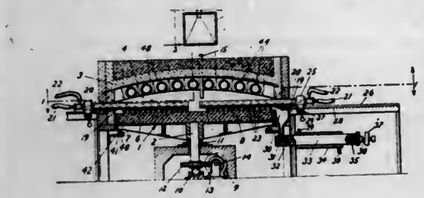
4. A machine of the class described comprising hoppers and a chute, a longitudinal slidably removable frame carrying a pivoted extension at one end thereof, a drill, supporting means including a spring for the drill, the said chute resting on the spring and mounted for pivotal movement, and means for raising and lowering the drill whereby the chute will be raised and feeding of the material therefrom arrested.

1,452,626. APPARATUS FOR THE PRODUCTION OF SPONGE IRON AND OTHER METALLIC PRODUCTS. EDWIN B. THORNHILL, Hurley, N. Mex. Filed Jan. 21, 1921. Serial No. 438,956. 12 Claims. (Cl. 263—21.)



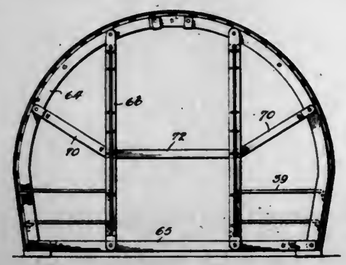
1. An apparatus for reducing metals from ores, or other material, comprising a hearth provided with an ore supporting bed of material non-adherent to the heated ore, or reduced material, a reducing chamber extending over said bed, and heating means extending over said bed and adapted to heat the material thereon by radiation.

1,452,627. PROCESS FOR THE PRODUCTION OF SPONGE IRON AND OTHER METALLIC PRODUCTS. EDWIN B. THORNHILL, Hurley, N. Mex. Filed Jan. 21, 1921. Serial No. 438,957. 15 Claims. (Cl. 75—77.)



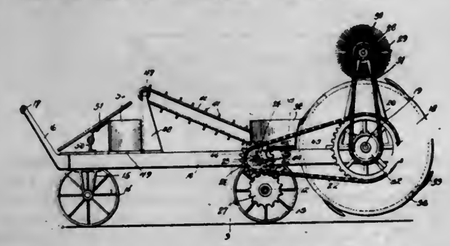
1. The process of producing sponge iron which consists in passing iron ore mixed with carbonaceous material over a non-heating supporting bed, in a reducing chamber and heating the mixture by heat radiated thereto from a source of heat out of contact with the mixture.

1,452,628. CONCRETE FORM. DAVID E. TINGLEY, Marshall, Ill. Filed Feb. 4, 1922. Serial No. 534,058. 3 Claims. (Cl. 25—131.5.)



3. A concrete form comprising, in combination, a closed figure formed of flat bars each having a plurality of holes therein some of which are adapted to be brought into registry, readily removable connecting means spanning said bars and having perforations, a pin passing through said means and registering openings whereby the size of the figure may be modified by bringing chosen holes in said bars into registry, form boards supported by said closed figure, flanges upon said boards, each flange forming an acute angle with the plane of the board whereby the boards may be used for internal or external forms, loops secured to certain of said boards, and rods having hooks engaging said loops to retain said boards in place.

1,452,629. BERRY-PICKING MACHINE. PETER Y. VREDER, Toms River, N. J. Filed Aug. 8, 1917. Serial No. 185,124. 9 Claims. (Cl. 56—330.)

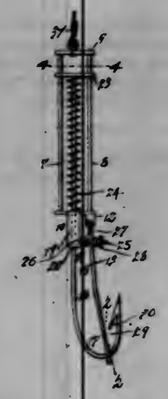


1. A cranberry harvester comprising a receiver, a rotary frame, one or more picker scoops mounted on said

frame so as to strip berries from vines and deliver the berries into said receiver when the frame is rotated, and means for delivering berries from said receiver while the harvester is in operation.

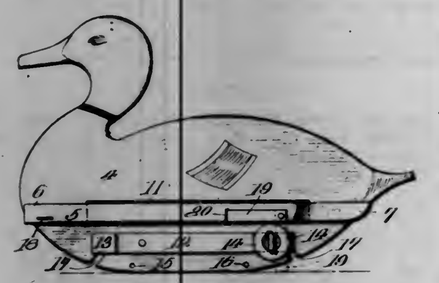
2. A cranberry harvester comprising a rotary drum, a plurality of sets of picker teeth mounted along the periphery of the drum so as to strip berries from vines when rotated therethrough, and a rotary brush for cleaning said teeth at each revolution.

1,452,630. FISHING HOOK. DAVID WALKER, New York, N. Y. Filed Jan. 14, 1922. Serial No. 529,154. 3 Claims. (Cl. 43—34.)



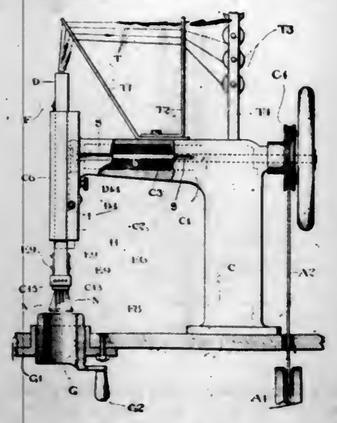
1. In a fishing device, a frame member, a hook slidably mounted thereon, a latch pivotally connected thereto arranged to latch the hook in extended position, a spring to force the latch outwardly after it has been released, a spring to return the hook to normal position after the latch has been released, and means to adjust the movement of the latch.

1,452,631. DECOY. GEORGE E. BARKER, Aberdeen, S. Dak. Filed Sept. 20, 1922. Serial No. 589,368. 4 Claims. (Cl. 43—3.)



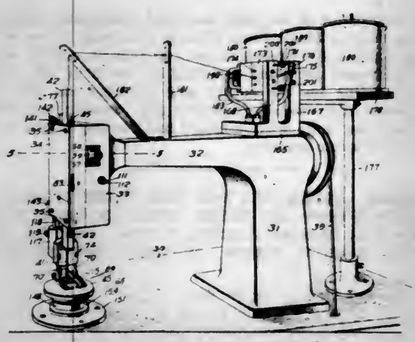
4. A decoy, comprising a profile, having an elongated slot and a float provided with slotted ends, said float insertible through the slot of the profile and the ends of the profile received in the slots of the float and a weighted arm pivotally connected to the profile beneath the float adapted to have one of its ends received between the float and profile for fastening the profile and float together.

1,452,632. SEWING MACHINE. WILLIAM H. BARNETT, Knoxville, Tenn. Filed Sept. 13, 1920. Serial No. 410,039. 28 Claims. (Cl. 112—79.)



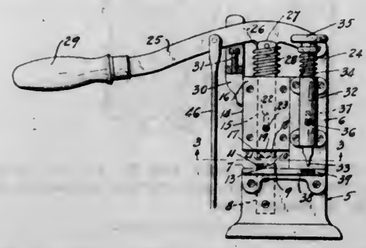
1. In a sewing or embroidering machine, the combination of a fixed framework including an overhanging machine-head, a work support beneath said head, a needle-bar movably mounted and supported upon said head in an upright position a tubular needle carried by said needle-bar point downward and through which thread or the like is delivered and applied to the work, driving connections reciprocating said needle-bar endwise in its bearings on the head of the machine thereby actuating the needle to project loops of thread or the like through and leave said loops projecting from the surface of fabric or other material upon the work support, and means also reciprocating said needle-bar and needle sidewise.

1,452,633. SEWING MACHINE. WILLIAM H. BARNETT, Knoxville, Tenn. Filed Jan. 3, 1921. Serial No. 434,537. 20 Claims. (Cl. 112—79.)



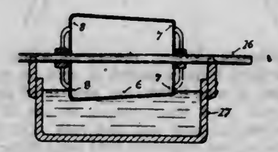
1. In a sewing or embroidering machine, the combination of a work support, a needle bar and feed-bar above the work support, a tubular needle carried by said needle-bar and through the interior of which thread or the like is to be conducted and loops thereof projected by the needle through work on the work support, means imparting to the needle-bar and feed-bar endwise reciprocation toward and from the work and sidewise backward and forward movement, and a feed-member pivotally supported from said feed-bar for engagement with the upper surface of the work on the work support.

1,452,634. WIRE-INSULATION CUTTER AND STRIPPER. BENJAMIN FRANK T. BELL, Taunton, Mass. Filed Aug. 23, 1922. Serial No. 583,813. 1 Claim. (Cl. 81—9.5.)



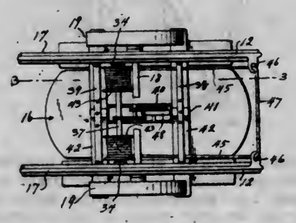
A wire insulation cutter and stripper comprising a base member having a socket in its upper portion, a stationary cutter mounted in said socket, a bracket carried by the base and extending over a portion of the top of the base, said bracket being provided with a socket, said socket terminating above the stationary cutter, a movable cutter slidable in said socket, the confronting edges of said cutters being sharpened, the central portion of each cutter being provided with a recess, said recesses coacting to receive a wire, an operating lever pivoted to the bracket, the opposite end of said movable cutter being pivotally connected to the lever, and means carried by the bracket for limiting the movement of the lever and the movable cutter.

1,452,635. METHOD OF ENAMELING. EUGENE BERNINGHAUS, Cincinnati, Ohio. Filed June 10, 1918. Serial No. 239,243. 3 Claims. (Cl. 91—73.)



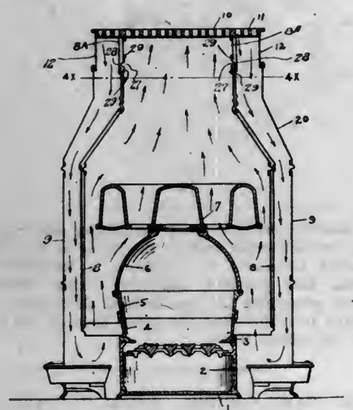
2. The method of producing enameled chair sections which comprises applying an annular coating of fused enamel to the exterior of an annular sheet metal chair section having inwardly turned opposite edges by rotating said section with its exterior surface including portions of said inwardly turned edges in contact with a bath of fused enamel.

1,452,636. TOY VEHICLE. THOMAS BOWDEN, Forest City, Pa. Filed Aug. 26, 1922. Serial No. 584,469. 2 Claims. (Cl. 280—8.)



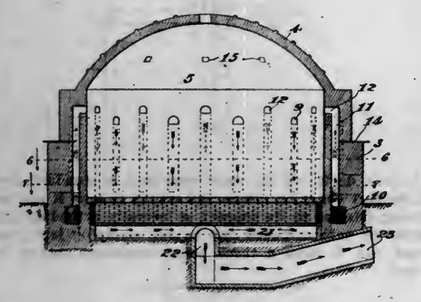
1. In combination with a vehicle embodying a dirigible steering element, of a tow rope mounting for the vehicle including a shaft extending transversely of the dirigible element having its ends rotatably mounted in bearings carried thereby, a spring motor engaged with said shaft, drums carried by said shaft adjacent the ends thereof, a flexible towing element having its ends secured to said drums, and means for supporting the flexible element at spaced points spaced forwardly of said shaft.

1,452,637. CONVERTIBLE ONE-PIPE FURNACE. JOHN DE VRIES, Geneva, N. Y., assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y., a Corporation of New York. Filed Apr. 13, 1921. Serial No. 461,047. 3 Claims. (Cl. 126—90.)



1. In a furnace the combination of an inner and an outer shell, said inner shell having double walls, an annular strip having a bead formed thereon overlapping the upper ends of the double walls of said inner shell, an upwardly projecting flange formed by said annular strip, an extension casing adapted to engage said flange and extend said inner casing, a register supported above said inner extension casing and a removable extension adapted to be mounted on said outer shell and extending to said register.

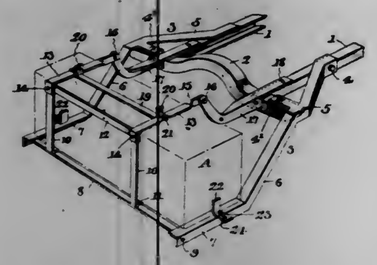
1,452,638. KILN. ROBERT J. DYER, Oakland, Calif. Filed July 11, 1921. Serial No. 483,735. 1 Claim. Cl. 25—135.)



A cylindrical kiln comprising a main wall having a smooth inner surface, a dome supported thereby, said main wall provided interiorly with a plurality of vertical flues each communicating at its upper end with the interior of the kiln, said wall being formed interiorly of its base with an annular duct with which the lower

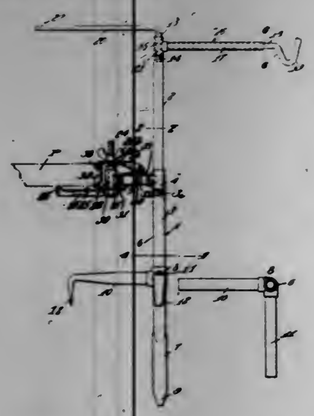
ends of alternate flues connect, said wall being further provided interiorly with a plurality of firepots opening at the exterior of the wall and one associated with alternate flues, and an outlet beneath said kiln connecting with said duct.

1,452,639. VEHICLE TRUNK RACK. ORLANDO G. HOLWAY, Chippewa Falls, Wis. Filed Feb. 9, 1922. Serial No. 535,176. 7 Claims. (Cl. 224—29.)



4. A vehicle article support comprising side members attached at their front ends to the frame of the vehicle, and having horizontal rear portions, a transverse bar connecting said portions, standards rising therefrom, means for connecting the standards at their upper ends, and means for connecting the upper ends of the standards to the vehicle frame.

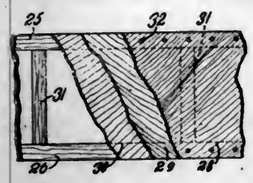
1,452,640. CAMP COOKER. SAMUEL C. HULICK, Spokane, Wash. Filed May 6, 1922. Serial No. 558,949. 3 Claims. (Cl. 126—30.)



1. In a device of the class described, a standard having support engaging means and means to hold it against turning relative to its support, a laterally extending arm carried by said standard and having clamping jaws, and a pan rest to form a three point suspension means for a pan.

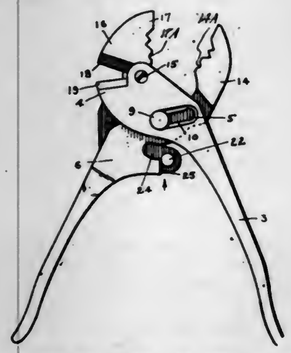
1,452,641. AEROPLANE WING. JAMES M. H. JACOBS, Dayton, Ohio, assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 20, 1918. Serial No. 254,952. 6 Claims. (Cl. 244—31.)

1. In an aeroplane wing frame, a wing spar comprising top and bottom sections spaced apart by struts, side sections cooperating therewith, said side sections consisting of a plurality of veneers, the grain of the



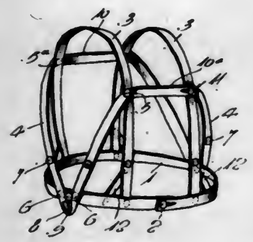
veneers running at an angle with the axis of the spar, whereby the veneer fibers act after the manner of brace wires in a simple truss.

1,452,642. COMBINATION PLIERS. FRANK J. KRATING, Rochester, N. Y. Filed Apr. 6, 1921. Serial No. 459,145. 11 Claims. (Cl. 7—3.)



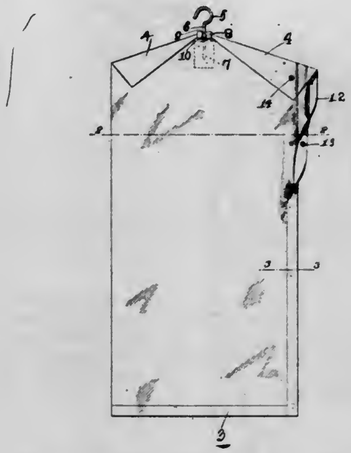
3. In combination pliers, the combination of a pair of levers, a third lever mounted to rock on one of said pair of levers, a cam formed on said third lever, a pin carried on said third lever, means on one of said pair of levers to engage said cam and rock said third lever in one direction, and means on said same lever to engage said pin and move said third lever in the other direction.

1,452,643. SUSPENDERS FOR CHILDREN'S CLOTHES. CORA ETHEL KELLER, Springfield, Mo. Filed Oct. 24, 1921. Serial No. 509,827. 4 Claims. (Cl. 241—12.)



1. A garment supporter of the class described comprising a waist-encircling band, shoulder straps connected to said band, and weight-distributing strap members connected to the shoulder straps at points adjacent the upper portions of the back and chest of the wearer, said strap-members being connected to said band intermediate their ends at points substantially diametrically opposite one another.

1,452,644. GARMENT BAG. FREDERICK W. KENNEDY, Shelbyville, Ind., assignor to The Kennedy Car Liner & Bag Co., a Corporation of Indiana. Filed Dec. 12, 1921. Serial No. 521,793. 3 Claims. (Cl. 206—7.)



1. The combination with a bag, of means for supporting the bag comprising a hook the shank whereof passes through the top of the bag, a loop at the end of the shank within the bag, reinforcements on the walls of the bag opposite the loop, and means passing through said reinforcements and straddling the shank to prevent lateral displacement.

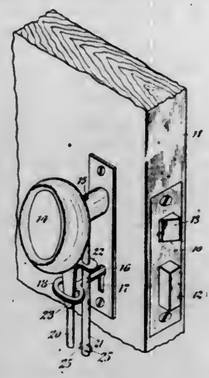
1,452,645. PISTON RING AND METHOD OF MAKING SAME. PAUL M. KLEIN, Cedarhurst, N. Y. Filed Dec. 26, 1918. Serial No. 268,437. 24 Claims. (Cl. 29—156.6.)



1. A double piston ring contacting under tension coinically between its faces for almost its entire circumference and expanding evenly under tension in radial direction.

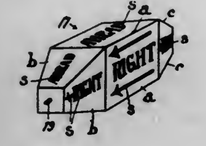
1,452,646. KEY FASTENER. CLYDE B. LOVELAND, Buffalo, N. Y. Filed Mar. 5, 1923. Serial No. 622,761. 2 Claims. (Cl. 70—65.)

1. A key fastener comprising a carrier constructed of spring wire in the form of an inverted U and adapted to engage its bow with the top of the shank of a door knob while the legs of the same hang on opposite sides of said shank, the lower end of one of said legs being provided with a stop while the lower end of the other leg is unprovided with a stop, and a keeper slidable vertically on said carrier and having an upper horizontal head which is provided with openings receiving said legs and a tongue projecting downwardly from one edge of said head and adapted to engage with the eye of a key for preventing the latter from turning, one end of said head being adapted to engage said stop and prevented from being moved downwardly off the same and the



other end of the head being free to be slipped off and on the lower end of the other leg for the purpose of enabling the carrier to be applied to and removed from said shank.

1,452,647. SAFETY SIGNAL FOR VEHICLES. CHARLES M. MEAD, Los Angeles, Calif. Filed May 17, 1921. Serial No. 470,407. 13 Claims. (Cl. 116—48.)



1. A safety signal for vehicles comprising front and rear signal boxes; tumblers revolvably mounted in the front and rear signal boxes having center faces parallel to the axes of the tumblers and other faces inclining from the center faces toward the tumbler axes; a shaft housing connecting said boxes; a rock shaft in said housing; means connecting said shaft and said tumblers; a sector attached to said housing and having notches; a lever for actuating said rock shaft to move said tumblers; and means on said lever adapted to engage the notches on said sector to hold the tumblers in predetermined positions.

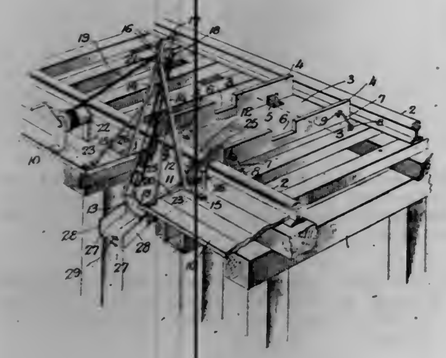
1,452,648. NECKTIE HOLDER. JAMES S. MEAD, Cincinnati, Ohio. Filed Mar. 22, 1920. Serial No. 367,741. 3 Claims. (Cl. 2—84.)



1. In a device of the character described, the combination with a plate formed to present the facial contour of a four-in-hand knot, of a tongue secured to the upper portion of said plate and spaced therefrom

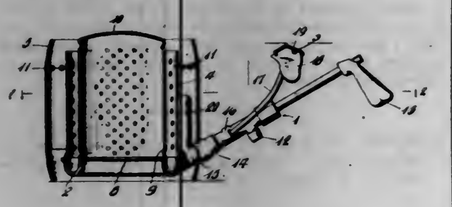
to extend downwardly behind the plate and free therefrom below, whereby when the four-in-hand knot of the tie is formed, the tongue may be inserted into the side loop of the tie and the fabric folded over, the opposite side loop of the knot secured over the free edge of the facial contour member, and the free end of the tie secured under the tongue.

1,452,649. UNLOADING MECHANISM FOR FREIGHT CARS. CHARLES H. MONTGOMERY, Fredericksburg, Va. Filed May 20, 1922. Serial No. 562,329. 5 Claims. (Cl. 193—17.)



1. The combination with a freight-car trestle having openings at the sides thereof and carrying two parallel railroad rails, of discharge-chutes tiltably disposed in said openings, a platform-trough disposed transversely on said trestle between said railroad rails and having its ends disposed adjacent the inner ends of said chutes, and flexible guard strips secured to the adjacent ends of said platform-trough and chutes.

1,452,650. BURNER. CLYDE W. MUMMERY, Richmond, Mich. Filed Nov. 2, 1922. Serial No. 598,578. 2 Claims. (Cl. 158—86.)



1. A burner comprising a vaporizing trough, spaced perforated walls mounted thereon and forming a combustion chamber above the trough, an inlet pipe to the trough, and a rod projecting upwardly from the inlet pipe, beside the outer of said walls, and serving to conduct heat to said inlet pipe.

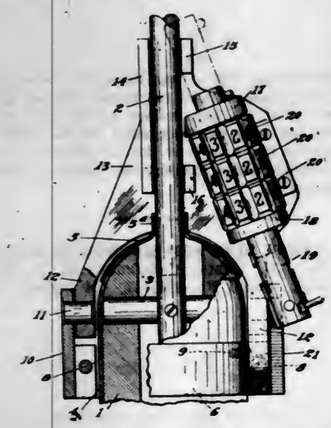
1,452,651. TARGET FINDER FOR FIREARMS. CHARLES H. NORBLIN, New York, N. Y. Filed Oct. 15, 1921. Serial No. 507,904. 9 Claims. (Cl. 240—8.4.)

1. A target finder for fire arms, consisting of a clamping plate, a rod having sliding connection with same, means yieldingly holding the rod against sliding move-



ment in the clamp, and an electric flash lamp or light secured to and carried by the rod.

1,452,652. PERMUTATION LOCKING MECHANISM FOR GEAR-SHIFTING LEVERS. JOHN PFEIFER, Springfield, Ohio, assignor to The Springfield Auto Lock Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 5, 1921. Serial No. 520,099. 9 Claims. (Cl. 70—128.)

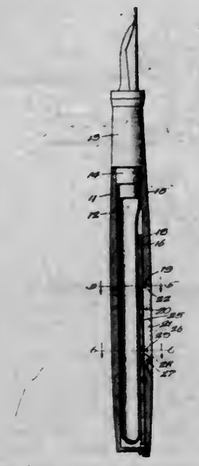


1. In a device of the character described, the combination, with a gear shifting lever, of a movable support having embracing parts for said lever when aligned therewith, and mechanism carried entirely by said support for locking the same to said lever.

1,452,653. FOUNTAIN PEN. ARTHUR F. POOLE, Kenilworth, and GEORGE B. VERNIER, Jr., Chicago, Ill., assignors to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed June 11, 1920. Serial No. 388,140. 1 Claim. (Cl. 120—46.)

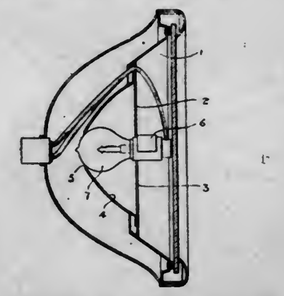
In a fountain pen, a casing forming a hollow handle and having an opening therein, an ink sack within said casing, a presser bar for compressing said ink sack, a flanged lever pivotally mounted on said casing so as to lie within said opening when said ink sack is in normal condition, and means for maintaining said lever in the above mentioned position, said means including a locking element consisting of a unilinear bar supported by said casing so that it lies within said opening with its sides parallel to the sides of the opening, inwardly projecting bosses oppositely arranged on the flanges of said lever, said bosses acting in conjunction with the bar to spread the flanges of the lever when the lever is forced

toward its closed position within the opening, the bar having a detent portion located in the path of movement of said bosses so as to allow the flanges of said lever to press said bosses inwardly toward each other



and lock them behind said bar when the lever has reached its closed position, the lever with its flanges and bosses substantially enclosing the detent portion of said bar when the lever is in said closed position.

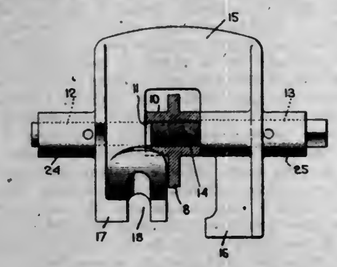
1,452,654. AUTOMOBILE LAMP. ALBERT H. REEKS, Toronto, Ontario, Canada. Filed May 23, 1921. Serial No. 471,964. 1 Claim. (Cl. 240—41.)



In an automobile headlight, the combination with the lamp casing, of a deep convergent rim extending inwardly from the glass, a rigid circular plate secured at the inner edge of said rim, said plate having a semicircular opening in the lower half, a reflector arranged back of said plate, and a lamp supported from the upper portion of said plate and extending into close proximity to said reflector.

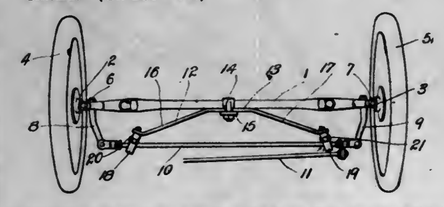
1,452,655. FILLING-CARRIER SUPPORT FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 18, 1922. Serial No. 554,789. 4 Claims. (Cl. 139—85.)

1. In an automatic filling replenishing loom a hopper plate having an internal threaded boss, a journal shaft having end bearing sections and an intermediate threaded section fitting the threaded boss, the diameter of one bearing section being less, and the diameter of the other bearing section being greater, than the internal diameter of the threaded boss whereby when the shaft is screwed into the boss it is locked in place, and a yoke-shaped frame, one arm of which constitutes the filling carrier



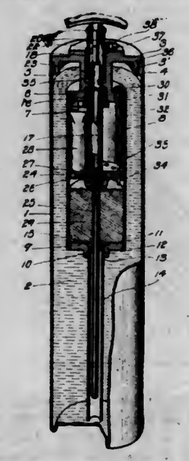
support, the said frame straddling the hopper plate boss and provided with aligned bearings on its arms journalled respectively on the bearing sections of the journal shaft.

1,452,656. STEERING - MECHANISM - STABILIZING DEVICE. WILBER D. RICHARDSON, Rosedale, Kans., assignor of one-half to Ralph Bryant, Kansas City, Mo. Filed Dec. 12, 1921. Serial No. 521,709. 5 Claims. (Cl. 280—94.)



5. A stabilizer for steering devices for motor vehicles comprising a bar having oppositely disposed, inclined, yielding arms, and means on the arms for direct frictional engagement with the side of the connecting rod of the steering mechanism to exert pressure thereagainst in a direction at right angles to the length of the rod.

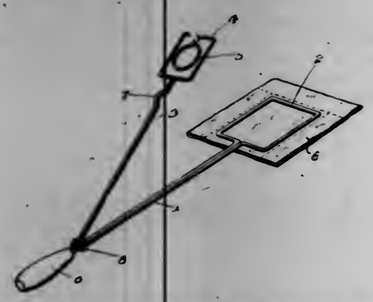
1,452,657. FIRE EXTINGUISHER. LUTHER ROBINSON, Eldorado, Kans. Filed Apr. 1, 1921. Serial No. 457,629. 1 Claim. (Cl. 169—32.)



A fire extinguisher comprising a liquid container, a gas generating chamber rigid with the container and

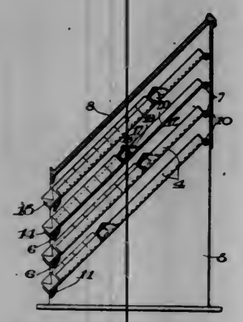
provided with a stuffing box, a longitudinally movable tube in the stuffing box having one end accessible from the exterior of the container and the other end extending into the chamber, a piston carried by the tube within the chamber, a liquid-containing envelope normally located between the piston and one end of the chamber whereby a movement of the piston in one direction will disrupt the tube to discharge its contents into the chamber, a second chemical within the chamber adapted to combine with the first to generate gas, the chamber being adapted to communicate with the main body of the container through an opening therein whereby the generated gas can exert pressure against the liquid in the container, a tube effecting communication between one end of the first named tube and the main portion of the container outside of the chamber, and a nozzle connected to the other end of the tube for discharging the liquid from the container to atmosphere.

1,452,658. BATH BRUSH. PAUL SCOTT, Waynoka, Okla. Filed Dec. 12, 1921. Serial No. 521,746. 1 Claim. (Cl. 15—147.)



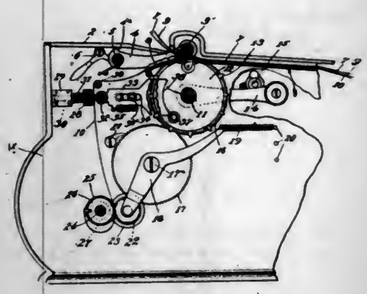
A cloth holder comprising wire elements bent to provide rectangular loops centrally of their ends, one of said wires being further bent to provide a circular loop within one of the rectangular loops, a support holding the free ends of the wire elements, the free ends of said elements being curved at the lower end, a ring member slidably mounted on said wire elements for locking and releasing said loops.

1,452,659. DISPENSING DEVICE. JOHN J. SEELMAN, Milwaukee, Wis. Filed Jan. 30, 1922. Serial No. 532,786. 4 Claims. (Cl. 211—9.)



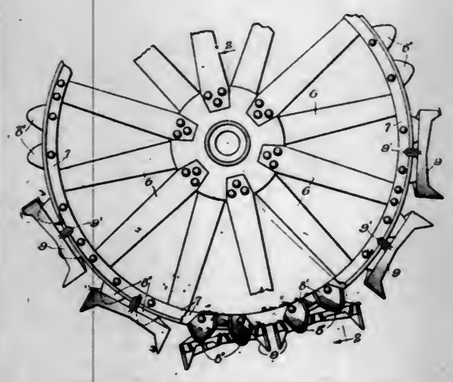
1. In a dispensing device, the combination, of a chute arranged to permit the removal of an article from a stack of articles therein, a follower for feeding the articles along the chute to a position for removal, and means operated by the movement of the follower for producing a warning signal.

1,452,660. MANIFOLDING REGISTER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Jan. 21, 1921. Serial No. 438,983. 10 Claims. (Cl. 282—16.)



1. In a manifolding register or the like, the combination with a writing table, a single means for feeding a plurality of webs of paper over said writing table, said means being adapted to feed all of said webs alike, an operated roll for storing one of said webs, said roll operatively connected to said feeding means, and an element adapted to clamp and hold said record strip against movement at a point between the feeding means and the operated roll.

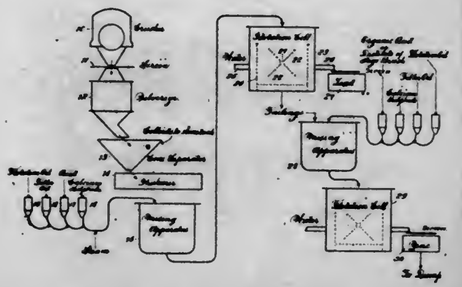
1,452,661. METAL WHEEL. LOUIS E. SLAUSON, Rock Island, Ill., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Filed Dec. 11, 1920. Serial No. 429,846. 3 Claims. (Cl. 305—13.)



1. A wheel comprising a hub, a pair of rings spaced apart, spokes secured at their inner ends to the hub and at their outer ends to the rings, outwardly projecting teeth located between and connecting the rings at intervals, and traction shoes loosely engaged with said rings in cooperative relation with the teeth.

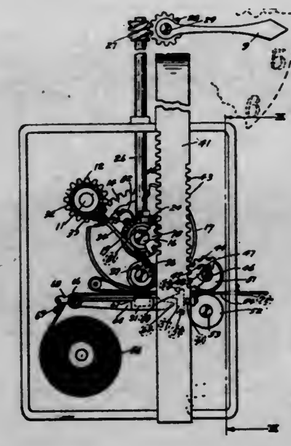
1,452,662. METHOD OF RECOVERING ZINC FROM LEAD-ZINC ORES. REINOLD V. SMITH, Eureka, Utah. Filed Mar. 28, 1918, Serial No. 225,294. Renewed July 22, 1922. Serial No. 576,866. 9 Claims. (Cl. 83—85.)

1. The method of separating and recovering lead and zinc from lead zinc ores consisting in sulphidizing the crushed ore in a slightly alkaline pulp, treating the same to recover the lead, resulphidizing the tailings in a



pulp rendered acid by an organic acid and recovering the zinc by flotation.

1,452,663. RECORDING DEVICE FOR LIQUID PUMPS. ATHERTON B. SNYDER, Grass Valley, Calif. Filed Oct. 20, 1921. Serial No. 508,952. 4 Claims. (Cl. 234—34.)



1. A recording device for a machine dispensing liquid through a faucet comprising a valve for the faucet, a control lever for the valve extending within operative proximity of the mouth of the faucet tending to normally close it but adapted to open it when struck by the receptacle receiving the oil, a recording wheel, means actuated by the dispensing mechanism for disposing the wheel in an active position and means actuated by the control lever for causing the record to be printed when the lever closes the valve and for returning the recording wheel to its initial position when it opens the valve.

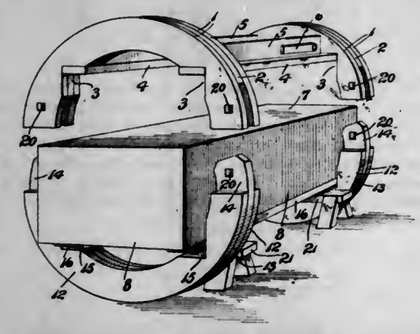
1,452,664. CABLE CHAIR. CALVIN E. STROUT, Portland, Me. Filed Oct. 21, 1921. Serial No. 509,450. 1 Claim. (Cl. 105—150.)

A trolley chair for telephone or other line men consisting of a flat elongated seat, a suspending frame secured to each end of said seat, said frame being composed of an upright strap secured to the seat, the lower end having an offset for enclosing and journalling the lower truck, the upper end of the frame being bent over to enclose and form a journal recess for the upper truck, the central portion being swelled or bent outward to



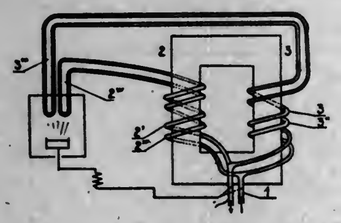
form a stiffening projection and the strip terminating in a lateral hook, a brace secured to the bottom and to the top and to said stiffening projection.

1,452,665. MOLD-HANDLING APPARATUS. JOSEPH S. TINDALL, Cedar Springs, Mich. Filed Aug. 14, 1922. Serial No. 581,688. 6 Claims. (Cl. 25—130.)



1. In a construction of the character described, two semi-circular segments spaced apart, members connecting the segments and holding them in spaced apart relation, said segments and members being adapted to hold a concrete receiving form, two additional semi-circular segments, means for detachably connecting said additional segments, one to each of the first segments to complete the circle and make rollers for traversing a plane surface, substantially as described.

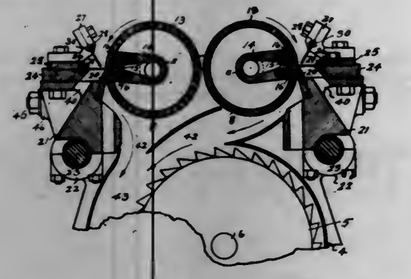
1,452,666. DEVICE FOR THE COOLING OF ELECTRIC APPARATUS BY THE CIRCULATION OF LIQUID THROUGH THE CONDUCTORS. PIERRE MARIE GABRIEL TOULON, Paris, France, assignor to Bureau d'Organisation Économique, Paris, France. Filed May 2, 1922. Serial No. 558,031. 2 Claims. (Cl. 175—363.)



2. The combination with a transformer core, of a winding inductively related thereto, said winding com-

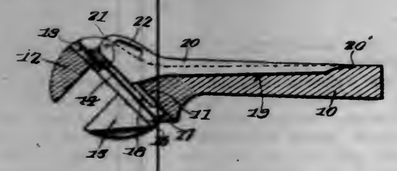
prising a two-part hollow conductor having a plurality of points of like potential located intermediate its length, a vapor rectifier unit connected between said points of like potential and points of opposite potential on said winding, and common cooling means including said hollow conductor for said transformer and said rectifier.

1,452,667. COTTON GIN. HENRY E. WERNER, Houston, Tex. Filed May 24, 1921. Serial No. 472,220. 14 Claims. (Cl. 19—51.)



2. A cotton gin, including a supporting frame, a rotatable roller mounted thereon, an unyielding, but adjustable stripper bar arranged to co-operate with the roller, a reciprocating finger bar, and fingers carried by said bar and arranged to force the cotton seed from the lint held between the roller and bar, said fingers forming a griddle through which the freed seed may fall.

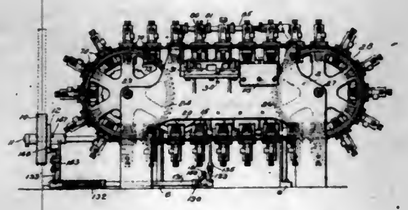
1,452,668. WRENCH. ARTHUR H. WETTWER, Rice Lake, Wis. Filed Dec. 12, 1921. Serial No. 521,821. 1 Claim. (Cl. 81—151.)



A wrench comprising a shank having a head on one end formed with a stationary jaw, said shank having a longitudinal groove formed in one of the narrow faces thereof, said groove being enlarged at one end and entering the stationary jaw, a channel formed longitudinally in the outer face of the head, said channel intercepting the enlarged end of the groove at an angle thereto, a movable jaw slidable in said channel, and a tapered lever movably supported in the groove of the shank, the lower face of the lever snugly fitting the bottom of the groove, the upper face of the lever being slightly above the edges of the groove to be gripped with the shank to engage the lever with the movable jaw.

1,452,669. HEEL-BUILDING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 20, 1915, Serial No. 67,814. Renewed July 10, 1922. Serial No. 573,917. 50 Claims. (Cl. 12—50.)

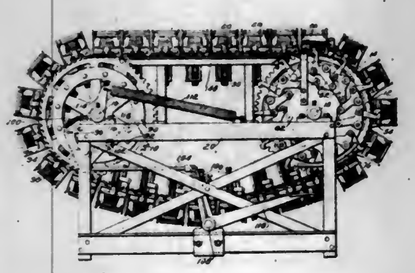
1. A machine of the character described, having in combination, a traveling carrier, devices, for operating upon heel blocks, sustained by said carrier, means, constantly presented in receiving position, on which lifts are assembled into heel blocks and operative to transfer each block as assembled to one of said devices on the carrier, and means to operate the carrier to present new devices to said means for each operation thereof.



13. A heel building machine having, in combination, an endless series of heel block presses arranged for simultaneous, intermittent travel, and means for loading a plurality of said presses with heel blocks during an interval of rest.

22. An automatic heel block pressing machine having, in combination, an endless series of heel block presses arranged to be moved simultaneously in intermittent steps, means for loading a press of the series, and means for concurrently unloading the next following press.

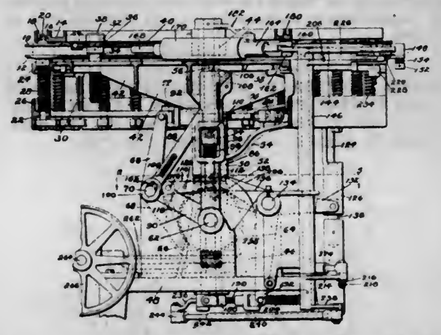
1,452,670. HEEL PRESS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 19, 1916, Serial No. 137,837. Renewed July 10, 1922. Serial No. 573,918. 29 Claims. (Cl. 12—48.)



1. A press having, in combination, a plurality of clamps comprising each a relatively stationary member and a relatively movable member; means for supporting and moving the clamps, as an endless series, past a work-receiving point, each clamp, when at said point, being positioned with its relatively movable member below said stationary member and in position to have an article laid upon its face; and means for opening and closing each clamp in turn when adjacent said point, by movement of the relatively movable clamp-member from and towards the relatively stationary clamp-member.

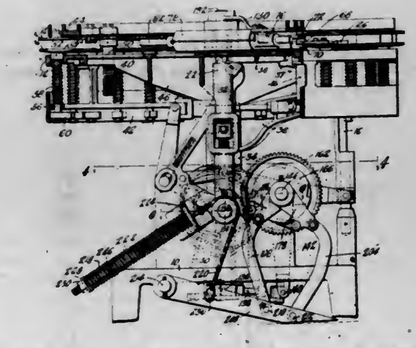
1,452,671. HEEL PRESS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 23, 1917, Serial No. 156,824. Renewed July 10, 1922. Serial No. 573,919. 73 Claims. (Cl. 12—48.)

1. A heel-press having, in combination, a carrier rotatable about a vertical axis; a series of heel clamps supported at the periphery of the carrier and each comprising an upper member and a lower member between which a heel may be introduced in horizontal position, and means



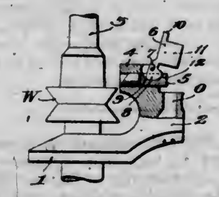
movable in substantially the horizontal plane of the carrier for introducing heels to the clamps and ejecting them therefrom.

1,452,672. HEEL-PRESS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 27, 1918. Serial No. 231,160. 20 Claims. (Cl. 12—48.)



10. A heel-press having, in combination, a heel-clamp for engaging the tread face and heel seat face of a heel, an ejector for discharging a heel laterally from said clamp, means for advancing and retracting said ejector, and auxiliary means, set during the retracting movement and released during the advancing movement of said ejector, for quickly ejecting a heel therefrom.

1,452,673. COMBINED DOFFER GUARD AND OIL-WELL COVER. WILLIAM ADKINSON, Providence, R. I., assignor to H. & B. American Machine Company, Pawtucket, R. I. Filed June 28, 1922. Serial No. 571,509. 10 Claims. (Cl. 118—65.)



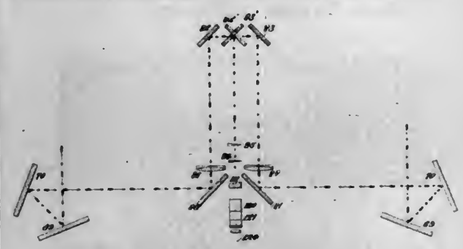
1. In combination with a bolster having a spindle therein and an upright post having an oil duct for the spindle bearing, a housing on the upper end of the post, a horizontal latching pin slidable in the housing to have its free end disposed over the spindle whirl, said pin having a groove, a member hinged to the housing and having a depending part forming a cover which engages on the upper end of the post to cover the oil duct, and a cam on the member engaging in the groove of the latching pin to move the latter to unlatched position, the depending part of said member engaging the inner end of the pin to move the latter to laching position.

1,452,674. CHECK PROTECTOR. ALBERT EDMUND BARNES, Chicago, Ill., assignor, by mesne assignments, to Kritikson Bros., Inc., Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1919. Serial No. 284,464. 7 Claims. (Cl. 120—7.)



1. A fountain pen cap having a roller provided with mutilating elements carried by the cap, means whereby the roller may be exposed or enclosed and a clip provided upon said means.

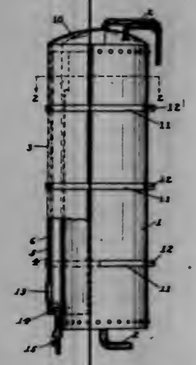
1,452,675. OPTICAL INSTRUMENT. FELIX H. CARSSOW, Vallejo, Calif. Filed Mar. 20, 1919. Serial No. 283,719. 24 Claims. (Cl. 88—2.7.)



1. In a range finder, a pair of optical squares spaced apart from each other a distance representing the base line of the instrument, an eye-piece located between the same, said optical squares receiving light rays from an observed object and reflecting the same at right angles to their original directions and toward each other along the base line, two oppositely tilted 90° reflectors arranged to change the course of the light rays received from the optical squares to separate paths lying in vertical and substantially parallel planes and extending away from the observer and inclined in opposite directions from the horizontal, objective lenses adjacent to the 90° reflectors and through which said light rays pass, double reflecting

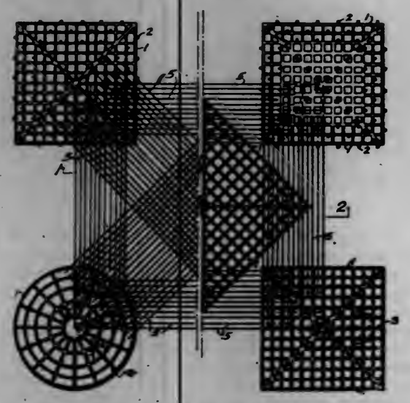
surfaces located in the path of the light rays from the 90° reflectors for changing the directions of the separate sets of light rays through 180° and causing the same to travel in separate superimposed paths toward the observer, an adjusting prism in the path of travel of one of the sets of light rays from the double reflecting surfaces, a measuring prism in the path of travel of the other set of light rays from the double reflecting surfaces, halving and erecting prisms in front of the eyepiece and through which the two sets of light rays separately pass to form two complementary image fields in the focal plane of the eye-piece.

1,452,676. HOT-WATER-TANK HEATER. CLIFFORD E. COLE, Birmingham, Ala. Filed June 4, 1921. Serial No. 474,972. 3 Claims. (Cl. 263-5.)



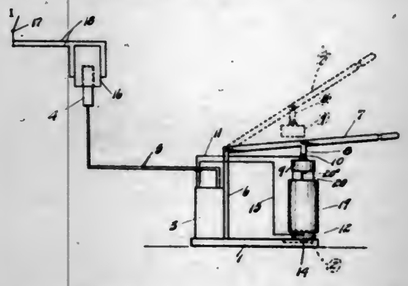
1. A heating attachment for hot water boilers, comprising a concavo-convex jacket, means to attach said jacket to the side of a hot water boiler, flame leak prevention pockets extending along the vertical side edges of said jacket, and a gas burner to deliver products of combustion into the flue space between the jacket and boiler.

1,452,677. REENFORCEMENT FOR REENFORCED-CONCRETE FLAT-SLAB CONSTRUCTION. LOUIS DAVIDSON, New York, N. Y. Filed June 9, 1919. Serial No. 302,946. 2 Claims. (Cl. 72—15.)



1. A flat plate with perforations consisting of holes for use over columns in reenforced concrete flat slab construction, perforated radial and circumferential web members perpendicular to said plate, and a bulb like projection at the edge of said perforated radial member, forming a complete unit for taking the tension in the top of the slab, and increasing the compressive capacity in the bottom of the slab.

1,452,678. APPARATUS FOR REMOVING THE DIVISION PLATES FROM ICE-CREAM RECEPTACLES. HARRY DILAS, Bay City, Mich. Filed Jan. 12, 1922. Serial No. 528,874. 5 Claims. (Cl. 219—19.)



1. In combination with an ice cream container having a metal division plate therein, and means for directing a flow of electric current through the plate.

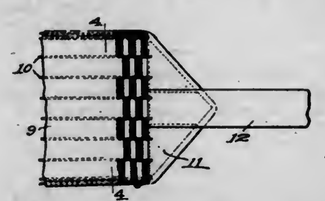
1,452,679. RETRIEVER FOR GOLF BALLS. HENRY W. FISHER, Perth Amboy, N. J. Filed Feb. 21, 1922. Serial No. 538,188. 3 Claims. (Cl. 46—4.)



1. A golf ball retriever including in its structure opposite relatively movable ball-engaging jaws, a spring tending to hold the jaws in proximate ball-engaging position, and a toggle member pivoted at its opposite ends to said jaws and adapted when extended and holding the jaws in remote position, to be swung by pressure exerted upon the ball to be retrieved, allowing said spring to swing the jaws to proximate ball-engaging position.

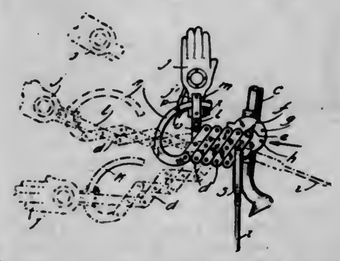
1,452,680. SPIRAL PUTTEE. HORACE M. FOXON, Brockton, Mass., assignor to Lapworth Webbing Company, Stoughton, Mass., a Corporation of Maine. Filed Sept. 28, 1922. Serial No. 591,173. 1 Claim. (Cl. 36—2.)

As an article of manufacture, a woven puttee in which elastic warp threads are woven in it in a stretched condition and spaced at distances apart all the way across the fabric, whereby when the tension is removed these



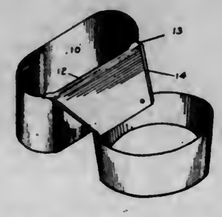
warp threads will contract and gather or shirr the rest of the fabric up between them, said puttee being transversely non-elastic.

1,452,681. AUTO SIGNAL. MOTOZO FUJIMOTO and TETSUJI OKAWA, Portland, Oreg. Filed May 21, 1920. Serial No. 383,279. 2 Claims. (Cl. 177—327.)



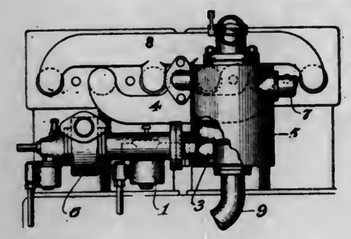
1. In a signal of the character described, a supporting bracket, lazy tongs pivoted to such bracket, a pair of parallel arcuate guide arms carried by the extremity of one member of said lazy tongs, a hand carried by the extremity of the other member of said lazy tongs, guide elements affixed to the wrist of said hand in which said guide rods slide, an electric light carried by said hand, the circuit wires of which are connected to a make-and-break, one element of which has a piece sliding on said guide arms, and a stop for the latter element provided on said guide arms whereby the relative movement of the hand in the latter in one direction closes the electric circuit of said light, and movement in the opposite direction opens said circuit.

1,452,682. DETACHABLE, SWINGING, WASHBOILER APRON. EDGAR GEYER, Silver Creek, Nebr. Filed Sept. 21, 1922. Serial No. 589,591. 1 Claim. (Cl. 68—30.)



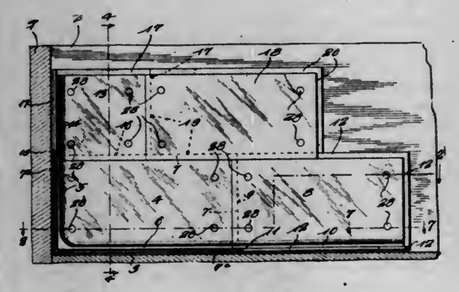
An apron for wash boilers comprising a flat sheet metal body portion having converging opposite lateral edges, the wider end of said body portion having a short extension adapted to engage across the upper edge of a wash boiler, said extension being curved to provide a flange adapted to seat over the upper edge of the wash boiler and to present a rounded deflecting head for preventing the catching thereon of articles being removed from the boiler and the displacement of the apron when in use, said curved flange extending from one curved end of the boiler to the other and terminating in ears which are substantially perpendicular to the plane of the body portion of the apron, said curved flange and ears also being adapted to suspend the apron against the side wall of the boiler when not in use and to engage between the body and the cover of the wash boiler when not in use.

1,452,683. ENGINE-FUEL VAPORIZER. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 30, 1917. Serial No. 199,262. 9 Claims. (Cl. 48—107.)



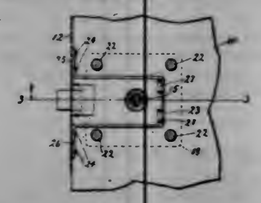
1. Vaporizing apparatus comprising a helical vaporizing passage and means for producing a flow of mixed air and liquid fuel therethrough, said passage having a curvilinear cross-section, the length of the passage and the velocity of flow being such that the liquid fuel separates from the air and travels along the inner side of the passage, and means for applying heat to the inner walls of the helix to directly heat the collected liquid flowing therein to vaporize the same.

1,452,684. GLASS FACING. DAVID HAMILTON, Greensburg, Pa. Filed Aug. 18, 1921. Serial No. 493,470. 7 Claims. (Cl. 72—19.)



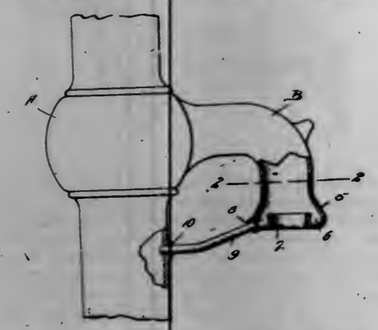
1. A lower corner plate having a laterally extending vertical flange extending throughout the height of one of its ends in a plane at right angles to the sides of the plate, the lower edge of said plate being provided throughout its length with a base flange in a horizontal plane co-extensive in width with and integrally joined to said vertical flange, all edges of said plate, except the relatively long edges of said flanges having tongues extending longitudinally of said edges and integrally joined to each other, said relatively long edges having longitudinal grooves.

1,452,685. DOOR. WILLIAM S. HAMM, Hubbard Woods, Ill., assignor to The Adams & Westlake Co., a Corporation of Illinois. Filed Sept. 4, 1920. Serial No. 408,285. 6 Claims. (Cl. 189—46.)



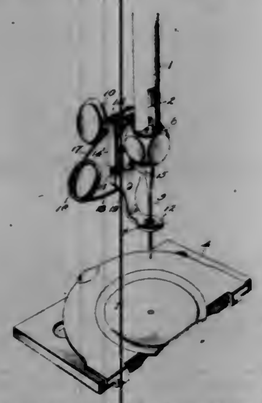
1. A hollow door adapted to receive a mortise-latch casing, and having a shelf within its chamber for supporting such casing.

1,452,686. ANTIDRIP PUMP. HENRY HARMAN and FERRIN C. HARMAN, Custer City, Okla. Filed Jan. 2, 1923. Serial No. 610,134. 2 Claims. (Cl. 103—217.)



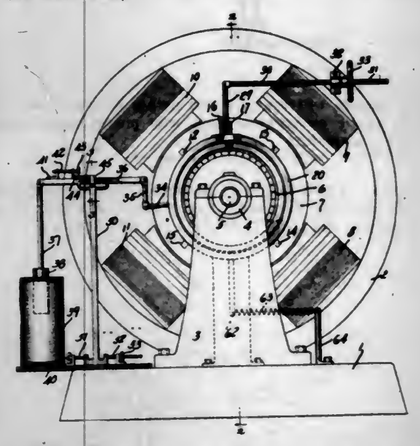
1. The combination with a pump outlet nozzle, of a channel within the outlet end thereof for receiving the pump drippings and means for conveying the said drippings from this channel to the interior of the pump casing.

1,452,687. EMBROIDERING ATTACHMENT FOR SEWING MACHINES. MARTIN HEMLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 10, 1920. Serial No. 372,759. 5 Claims. (Cl. 112—236.)



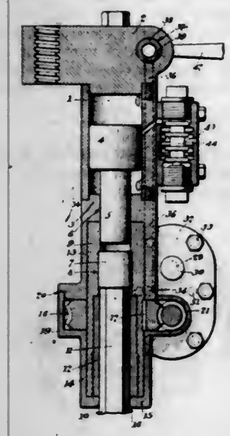
5. An embroidering attachment including in combination, a needle-clamp having a lateral boss, a guide-block secured to said clamp and formed with a guideway, a needle stripper slidingly mounted in said guideway in engagement with said boss by which it is maintained in the guide-way, and a spring for yieldingly holding said stripper depressed relatively to the needle-clamp.

1,452,688. VOLTAGE-CONTROLLING DEVICE FOR DYNAMOS. GROVER C. HUBBLE, Bonners Ferry, Idaho. Filed Dec. 2, 1921. Serial No. 519,493. 6 Claims. (Cl. 171—221.)



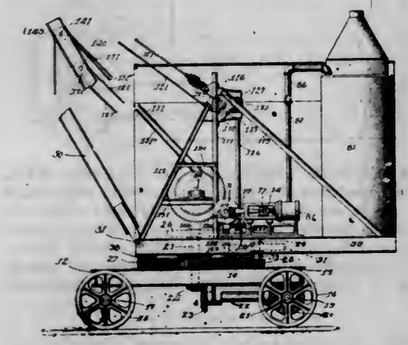
2. An adjusting means for regulators of dynamos, which comprises a brush, a brush support, a rocking lever associated with said support to move the same, means for rocking the lever, an adjustable fulcrum connected to said lever, and a pedestal having an elongated slot in its upper end to receive the adjustable fulcrum.

1,452,689. FLUID-OPERATED DRILL. CHARLES A. HULTQUIST, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,510. 1 Claim. (Cl. 121—7.)



In a drill, the combination of a cylinder, heads closing the opposite ends of the cylinder, one of the heads having an opening, a plunger in the cylinder having a portion of reduced diameter passing through the opening, a bearing formed integral with the head having the opening, a tubular shaft having one end journaled in said bearing, an anvil reciprocatively mounted in the bore of the tubular shaft, the reduced plunger portion projecting into the bore of the shaft when the plunger is moved toward said anvil, a bushing screw threaded into the shaft and having a bore of angular cross section for the reception of a drill steel, a worm gear secured to the shaft, a housing for the worm gear fitting gainst the bearing, a second shaft journaled in the housing, a worm on the shaft in mesh with the worm gear, a spur gear on the second shaft inside of the housing, a third shaft journaled in the housing, a spur gear on the third shaft in mesh with the first spur gear, the housing having a port to admit an operating fluid, one of the heads having a throttle valve chamber and there being a duct connecting the port with said chamber, a throttle valve in the chamber having ports, a second valve chamber, and a fluid operated valve in the second valve chamber controlling the flow of operating fluid to and from the cylinder, there being a duct connecting the two valve chambers, the throttle valve ports being positioned so that when the throttle valve is in one position both ducts will be closed and so that when the throttle valve is in a second position the second duct will communicate with one of the valve ports and so that when the throttle valve is in a third position the second duct will communicate with the last mentioned valve port and the first duct will communicate with the other valve port.

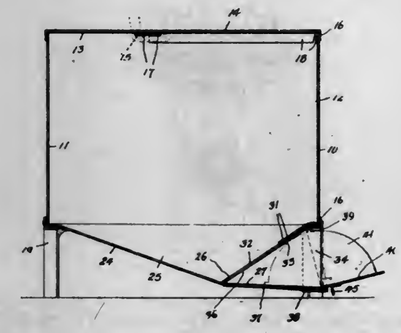
1,452,690. POWER-OPERATED CRANE. EDMUND JOSEPH KANE, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 420,976. 14 Claims. (Cl. 212—38.)



1. In a locomotive crane, the combination with a truck body, of a swing body pivotally connected therewith, and means for operating the swing body in relation to the truck body, comprising a gear rigidly connected to the truck body, a shaft journalled in the swing body and carrying a gear engaging the aforesaid gear on the truck body, a second shaft extending on the axis of the pivotal connection between the swing body and the truck body, a power shaft, a shaft carrying a plurality of cable drums operatively connected with said power shaft, a shaft operatively connected with said power shaft, and a shiftable gear on the last said shaft adapted to engage in different positions of adjustment a gear on the aforesaid shaft on the pivotal axis of the swing body or a gear on the aforesaid shaft which carries the gear for operating the swing body in relation to the truck body gear.

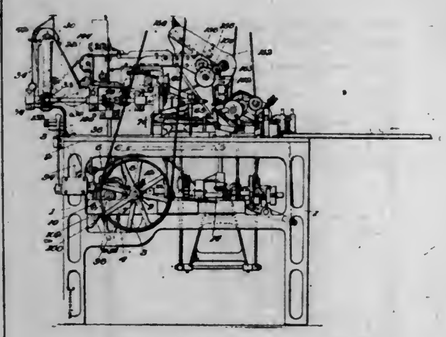
1,452,691. DISPENSING RECEPTACLE. OTTO KARTZMARK, West Haven, Conn. Filed June 21, 1922. Serial No. 569,890. 10 Claims. (Cl. 126—283.)

4. In a dispensing receptacle, the combination of a bottom structure including a plate and a chute, a reinforcing frame bounding the mouth portion of the chute, the front end of the bottom plate resting upon the frame, the frame being provided with a pair of ears adjacent to said bottom plate, and a closure for the chute comprising



a plate portion whose lower corners are interengaged with said ears and whose lower edge bears consequently upon the upper surface of the plate.

1,452,692. MACHINE FOR PACKAGING ARTICLES. IGNACIO LAZAGA, Salem, Va. Filed Dec. 19, 1918. Serial No. 267,511. 17 Claims. (Cl. 93—4.)



7. In a wrapping machine, the combination of a device for counting the articles to be wrapped, an inside wrapper feeder, an outside blank feeder, supports for holding said inside wrapper and said outside blank after they are fed, folding devices between said supports for folding the inside wrapper, means for transferring the counted charge from the counting device to a position in front of the inside wrapper as it is located on its support, and a plunger comprising a pair of plates arranged to receive a charge laterally between them, said plates moving with said counted charge against the inside wrapper to partially fold the latter around the charge and to then move the partially wrapped charge against the outside blank to fold the latter around it.

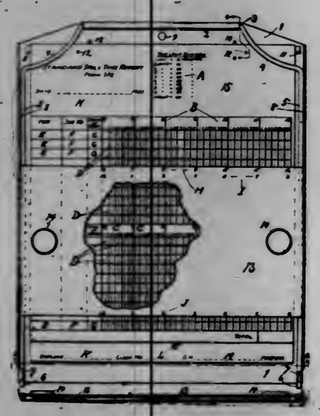
11. A wrapping machine including in combination, an opened side plunger, means for charging said plunger through an open side, means for feeding wrappers into the path of the plunger, means for moving the plunger with the articles to be wrapped successively against said wrappers, means for stopping the plunger after the wrappers have been folded therearound, and means within and forming part of the plunger for ejecting the contents of the plunger which means continues to move after the open sided part of the plunger has stopped.

1,452,693. OSCILLATING JOINT. HUGH C. LORD, Erie, Pa. Filed Nov. 17, 1920. Serial No. 424,788. 33 Claims. (Cl. 267—54.)



12. In a spring point, the combination of a spring bolt; a spring eye; and a rubber joint member arranged between the spring bolt and spring eye, said rubber member being locked with the spring bolt and with the spring eye and sustaining the thrust on the joint and through its distortion the relative movement of the spring bolt and spring eye.

1,452,694. RECORD-SHEET HOLDER AND PROTECTOR. ANDREW G. LUND, St. Paul, Minn. Filed Dec. 2, 1921. Serial No. 519,545. 6 Claims. (Cl. 129—1.)



6. In a device of the class described, a body plate adapted to support paper sheets to be written on, means for holding the paper in place on the plate, a resilient guard plate for the hand to rest on while writing said guard plate extending across the body plate and means fixed on the body plate for guiding said guard plate in a vertical movement on the body plate.

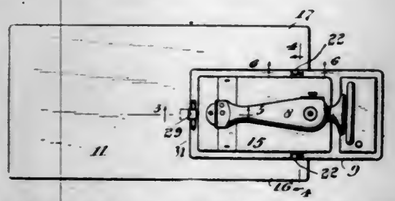
1,452,695. SOLE PLATE FOR GOLF CLUBS. GEORGE W. MATTERN, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 27, 1920. Serial No. 426,704. 6 Claims. (Cl. 46—4.)

1. The combination with a golf club head, of a rearwardly convergent sole plate of trapezoidal form extending substantially from the face to the rear edge of the club, the club head being recessed for the reception of said sole plate whereby the lateral converging edges of the plate have a seating engagement with the lateral



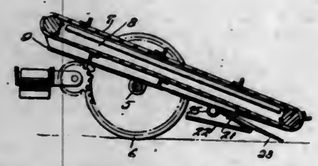
shoulders of the recess by which rearward impact shocks are laterally transmitted to the club head through substantially the full fore and aft extent of the club head.

1,452,696. SUPPLEMENTAL WORK SUPPORT FOR PORTABLE SEWING MACHINES. GEORGE R. MOCK, Chicago, Ill., assignor of one-third to Robert L. Campbell, Chicago, Ill. Filed June 28, 1920. Serial No. 392,316. 3 Claims. (Cl. 45—47.)



1. A detachable work support for a portable sewing machine, consisting of a table, provided with edges adapted to oppose one end edge and the side edges of the bedplate of the machine, said end edge having secured thereto a plate provided with a hook-shaped arm adapted to overlap the adjacent surface of the bed-plate and thereby furnish a support accordingly for the supplemental table.

1,452,697. AGRICULTURAL MACHINE. JOHN E. MULLEN, New Duluth, Minn. Filed Nov. 21, 1919. Serial No. 339,567. 6 Claims. (Cl. 55—17.)

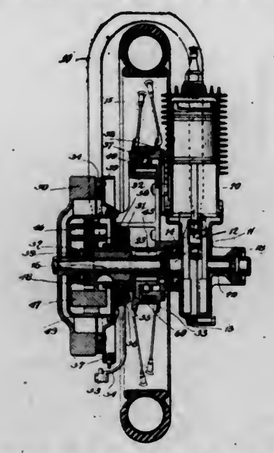


3. In a machine of the character described, the combination of a wheeled frame, a picking element pivotally joined at the bottom of said frame, a plate bent rearwardly from the picker forming a scraper, substantially as described.

1,452,698. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed Sept. 18, 1920. Serial No. 411,347. 14 Claims. (Cl. 180—33.)

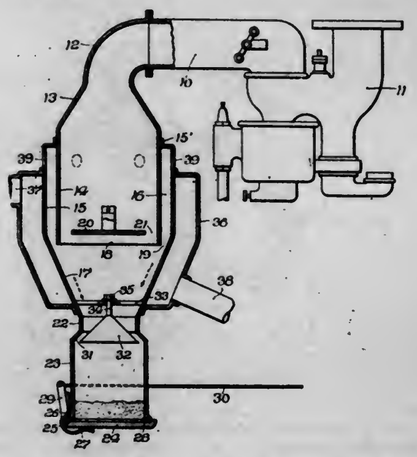
1. In a motor vehicle the combination of a traction wheel, a propelling motor, a main shaft having connection with said motor at one side of said wheel and passing

thru said wheel, a friction clutch on the opposite side of said wheel from said motor connection and having connection with said shaft, a driven member of said clutch



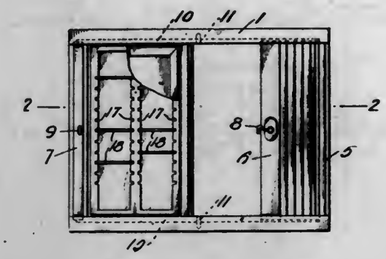
rotatably mounted on said shaft, and a gear on said driven member and a coacting gear on said wheel meshing directly with the first named gear.

1,452,699. CARBURETING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. WILLIAM L. O'NEILL, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed June 27, 1917. Serial No. 177,160. 15 Claims. (Cl. 183—42.)



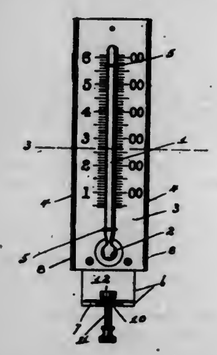
1. The combination with a carburetor having an inlet pipe and adapted to be connected to an internal combustion engine so that air will be caused to pass through said pipe in response to the suction of the engine, of a casing connected with said pipe and embodying a separating compartment and a dead air compartment for the reception of solid impurities, an outlet for said dead air compartment, a normally closed valve for said outlet, and means between said compartments permitting the passage of impurities to said dead air compartment when said valve is closed and automatically operable when said valve is opened to prevent the return of said impurities to said separating compartment.

1,452,700. DEVICE FOR STORING AND DISPLAYING SMOKERS' ARTICLES. RUDOLF PEYER, St. Gallen, Switzerland. Filed May 18, 1921. Serial No. 470,599. 3 Claims. (Cl. 217—7.)



1. A device for storing and displaying articles, such as cigars and other smokers' articles, characterized by a case to be locked having a slidable cover of roll-top shape, in a plurality of sections, and also having a drawer to be inserted within the case, the opposite side walls of said case being provided with guides and stops for the cover sections, and a double bottom opposite said guides so that when the case is opened the cover parts enter between the double bottom parts.

1,452,701. THERMOMETER. SENECA MORRIS PIKE, Troy, N. Y., assignor to Wilder-Pike Thermometer Co., Inc., Troy, N. Y., a Corporation of New York. Filed July 12, 1922. Serial No. 574,428. 2 Claims. (Cl. 73—119.)

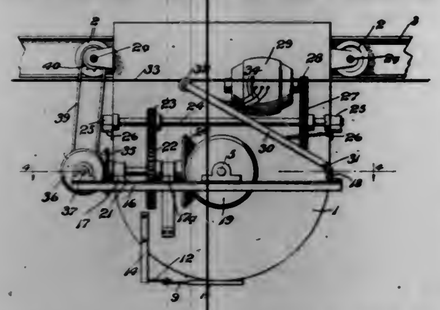


1. A thermometer having a liquid-containing tube mounted within a channeled frame formed with alined notches in its side walls at one end, and screw mechanism mounted upon the frame in position to engage a rod seated in said end notches in the side walls of the frame.

1,452,702. STUCCO-MIXING MACHINE. EDWARD H. PIPE, St. Louis, Mo., assignor to Acme Cement Plaster Company, St. Louis, Mo., a Corporation of Illinois. Filed June 28, 1920. Serial No. 392,510. 5 Claims. (Cl. 83—73.)

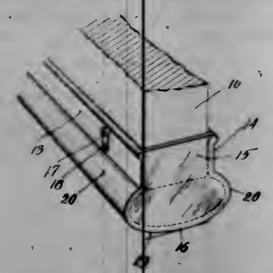
1. A mixing machine comprising a receptacle open at its upper end, tracks one at each side of the upper part of the receptacle between which said receptacle is located and below which it depends, cross rods connected one at each end of the receptacle, rollers on the ends of the rods run-

ning on the tracks, a shaft extending through the receptacle parallel to and below the rods, mixing members at-



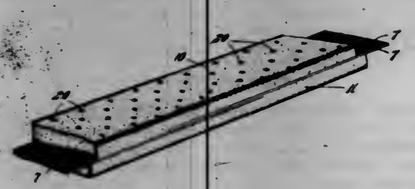
tached to the shaft, means for driving the shaft, and means for driving one of said cross rods in either direction from said shaft, substantially as described.

1,452,703. THRESHOLD ELIMINATOR. HENRY V. POLLARD, Somerville, Mass. Filed June 23, 1920. Serial No. 391,040. 2 Claims. (Cl. 20—68.)



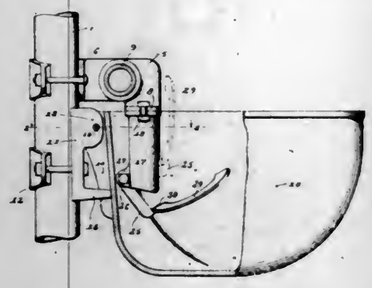
1. A device for closing the space between the lower end of a door and the floor comprising a rigid member having side walls and a bottom wall, said side walls having a space between them to receive the lower end of the door, and having vertically arranged elongated slots therein, adapted to receive fastenings passing into the door in positions enabling the member to hang normally close to the floor and to rise for clearing a floor covering; the said bottom wall being inclined upwardly from an intermediate longitudinal line toward and beyond the side walls, and being joined to said walls by outwardly bulged portions.

1,452,704. BELT AND PROCESS OF MAKING SAME. HECTOR L. POULIN and ULRIC A. POULIN, Anthony, R. I., assignors to The Rosella Mills Inc., a Corporation of Rhode Island. Filed May 6, 1922. Serial No. 558,863. 2 Claims. (Cl. 154—4.)



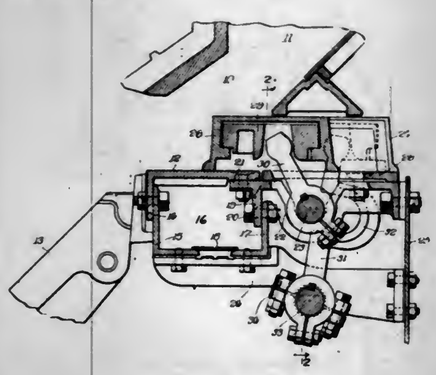
2. The process of forming a belt consisting in overlapping the ends of a base strip, applying layers of batting to the opposite sides of the strip over the ends, and forcing portions of the batting layers through the base strip.

1,452,705. STOCK-WATERING DEVICE. ROBERT F. RASMUSSEN, Oshkosh, Wis., assignor to C. A. Libbey Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1919. Serial No. 347,277. 3 Claims. (Cl. 119—75.)



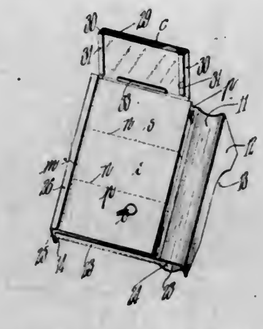
1. In a stock watering device the combination wtih a bowl and a supply pipe of a substantially vertically disposed nozzle adapted to discharge from said pipe into said bowl, said nozzle being provided with a plurality of alined slots; a valve within said nozzle adapted to control fluid flow therethrough; and a stock operated valve actuating member provided with a lever one end of which is pivotally secured to said nozzle and an intermediate portion of which is adapted to enter said slots to engage a portion of said valve to open the same.

1,452,706. FURNACE STOKER. ROBERT SANFORD RILEY, Worcester, Mass., assignor to Murphy Iron Works, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1920. Serial No. 388,240. 4 Claims. (Cl. 110—109.)



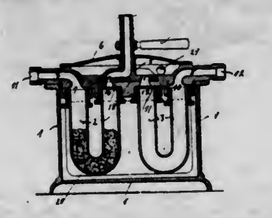
1. In a fuel-stoking mechanism of the character described, the combination of a fuel-magazine, a coking-plate beneath said magazine adapted to receive the fuel therefrom, an inclined grate adjacent to said coking-plate, a plurality of stoker-boxes arranged directly adjacent to one another endwise in a row and adapted to feed the fuel from the coking-plate to the grate, a shaft disposed longitudinally of such row, operating means connecting said shaft to the alternate stoker-boxes of the row to effect similar simultaneous movements of such stoker boxes, a second shaft parallel to the first shaft, operating means connecting said second shaft to the remaining alternate stoker-boxes of the row to effect similar simultaneous movements of such stoker-boxes, and means to rock said shafts to alternately advance the two sets of stoker-boxes.

1,452,707. HOLDER FOR MEMORANDUM PADS AND THE LIKE. ARCHIE D. ROBINSON, Westfield, Mass. Filed Sept. 19, 1921. Serial No. 501,718. 4 Claims. (Cl. 40—120.)



1. A holder for memorandum pads and the like, comprising a base member to support the pad, a portion of said member extending beyond one edge of the pad and bent transversely to form a tray for the reception of pencils, pens and the like, means for supporting said base and tray in inclined position, a jaw provided along one edge of said base between which and the latter, one edge of the memorandum pad may be inserted and frictionally held to the base member with all the upper surface of the pad except that immediately adjacent said edge completely exposed, and a lip bent upwardly from the lower edge of the base member to engage the lower edge of said pad and to close the lower end of said tray.

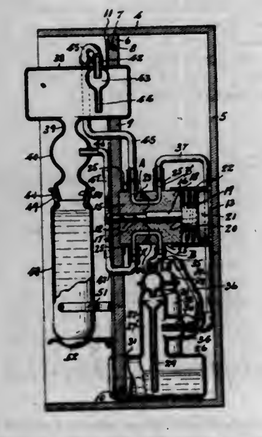
1,452,708. DEVICE FOR CLEANING PIPES. HENRI RUPRATI, Hamburg, Germany, assignor to Johannes Heydt, Albrechts, Germany. Filed June 24, 1920. Serial No. 391,557. 2 Claims. (Cl. 225—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A device for cleaning pipes by means of a pressure-medium, particularly for beer pressure-apparatus, comprising, in combination, two U-shaped glass-containers inserted in the piping to be cleaned for a passage of the pressure-medium therethrough, and a hand-operated reversing-slide to connect said containers for a control of the passage of the pressure-medium therethrough, substantially as and for the purpose set forth.

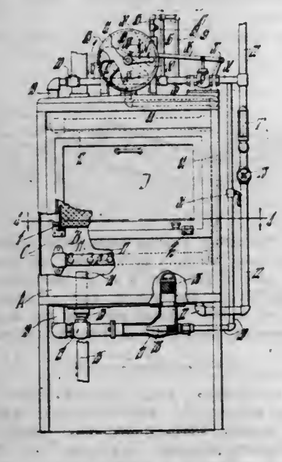
1,452,709. APPARATUS FOR PREPARING ARTIFICIAL RADIOACTIVE WATER. HERBERT F. SAVOYE, Hackensack, N. J., assignor to American Radium Appliance Company, Morristown, N. J., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 534,900. 6 Claims. (Cl. 167—7.)

1. In an apparatus for charging a fluid with radium emanation, a means for holding a radium solution, a pair of containers arranged one above the other to receive the fluid to be treated, means for reversing the relative positions of said containers whereby the fluid may be caused to alternately flow from one to the other thereof, an air conveying means interconnecting said containers with said radium solution holding means, and said air conveying means including a reversing valve, all whereby the fluid in flowng from one contaner to the other will displace air from the latter and circulate the same through said radium solution for return to the former after bubbling through the fluid for the purposes described.



3. In an apparatus for charging a fluid with radium emanation, a container holding caustic alkali, a container holding a solution of radium salt, a reversible two compartment container for holding the fluid to be treated, and an air circulating means including a reversing valve, all whereby the flow of fluid from one compartment to the other of said fluid container will circulate air successively through said caustic alkali, the radium salt solution and said fluid to be treated.

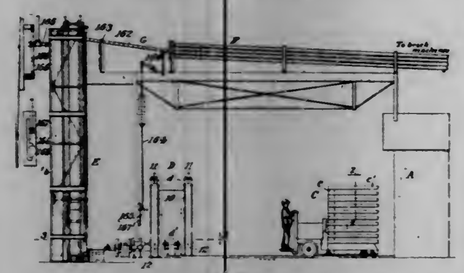
1,452,710. WASHING MACHINE. ANTON C. SCHMELZER, Springfield, Mass., assignor, by mesne assignments, to Century Machinery Corporation, Holyoke, Mass., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,717. 11 Claims. (Cl. 141—9.)



1. In a washing machine, a washing compartment, sprinklers located in said compartment, separate means

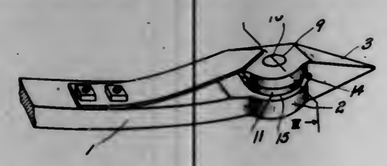
to deliver washing and rinsing water to said sprinklers, a self-closing valve associated with each of such means, means actuated by the flow of water to control the closing of the washing water valve and the opening and closing of the rinsing water valve, and manually operable means to open the washing water valve and start said mechanism in operation.

1,452,711. BRICK-HANDLING APPARATUS. FREDERICK A. SCHROEDER, Bogota, N. J., and HERMAN R. SMITH, Brooklyn, N. Y., assignors to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 23, 1920. Serial No. 432,685. 8 Claims. (Cl. 214—1.)



1. In an apparatus for the purpose described, in combination, a vertical conveyer adapted to receive brick-laden pallets, a horizontal conveyer arranged to receive the brick-laden pallets from the vertical conveyer, means cooperating with the pallets to loosen the bricks thereon while the pallets are being transported by the said horizontal conveyer, a conveyer adapted to receive the loosened bricks, a conveyer adapted to receive the unloaded pallets and carry the same away, means for cleaning the pallets while in transit on the latter conveyer, an elevator to receive the cleaned pallets and carry the same to an elevated position, automatic driving mechanism for operating said conveyers and elevator to operate in harmony with each other, and a gravity conveyer to receive pallets at said elevated position and deliver the same to a reloading point.

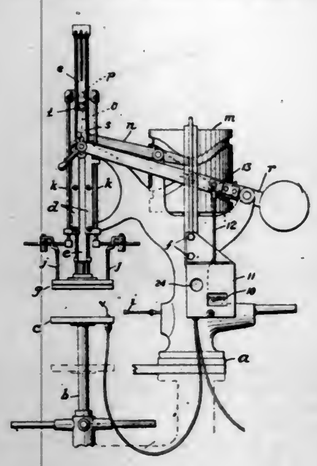
1,452,712. BALING-WIRE NEEDLE. WILLIAM A. SEYMOUR, Leavenworth, Kans. Filed Aug. 30, 1920. Serial No. 406,817. 1 Claim. (Cl. 100—20.)



A needle for baling presses comprising a bar having a recess, the head having a hooked end, the recess being open at one edge of the bar, a roller insertable through the open portion of the recess, and a roller-carrying rivet connected to the hooked end and the floor of the recess to maintain the roller in functional position.

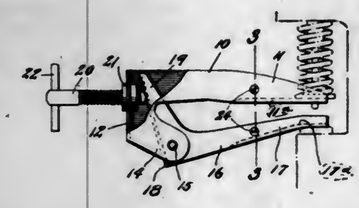
1,452,713. COUNTING AND REGISTERING DEVICE FOR BOX WRAPPING AND SIMILAR MACHINES. JOHN H. STORTZ, Philadelphia, Pa. Filed Nov. 19, 1920. Serial No. 425,054. 9 Claims. (Cl. 235—91.)

1. In a box wrapping or similar machine, the combination with a counter, of a reciprocating member of the machine, a box support adapted to be moved by said member, normally inoperative connections from said member to operate the counter, and means, controlled



by a box between said member and the support during the reciprocation of the support, to render said counter operating connections operative.

1,452,714. VALVE LIFTER. JOSEPH SUNNEN, St. Louis, Mo. Filed Aug. 9, 1921. Serial No. 490,968. 4 Claims. (Cl. 29—863.)

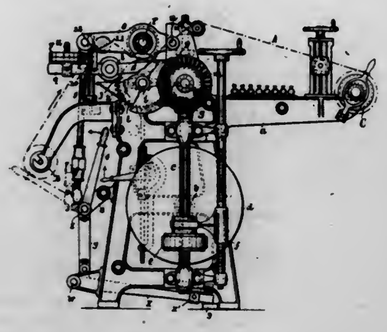


4. A valve lifter comprising a pair of U-shaped members pivotally connected adjacent to their base portions, means for adjusting said U-shaped members relative to their pivotal connection, a rotatably threaded member extending inwardly from one end of each jaw member, and an internally threaded sleeve adapted to receive the threaded end of said rotatable member and provided with a shank portion non-circular in cross section which engages a non-circular seat formed in the opposite end of each jaw member.

1,452,715. MANGLE OR QUETCH. CLAUDIUS UGNON, JERRY GALOPPA, and CHARLES SALDARINI, Paterson, N. J., assignors to Riverside Engineering Co. Inc., Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1921. Serial No. 477,423. 4 Claims. (Cl. 91—51.)

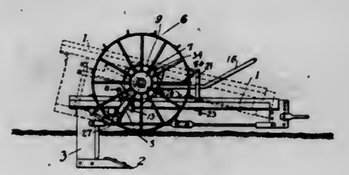
1. A machine for treating fabrics with liquid including, in combination, a supporting structure, three members two of which are coacting, fabric-pressing rolling members and the third of which is a squeegee member which bears against one of the first two members, and

means to supply the liquid of treatment to the periphery of one of the first two members, said structure having



means to separate the first two members and at the same time the squeegee member and the member against which it bears.

1,452,716. POWER LIFT FOR GROUNDWORKING IMPLEMENTS. DANIEL M. WATTERS, Los Angeles, Calif., assignor to Killefer Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 15, 1920. Serial No. 424,083. 3 Claims. (Cl. 97—72.)



1. In an implement, the combination of a frame, a crank axle supporting the frame, ground wheels journaled on the axle, ground working tools supported by the frame, a ratchet wheel operated by one of the ground wheels, an arm mounted on the crank axle, a link pivoted to said arm and provided with a shoulder, a stationary element mounted on the frame to engage the shoulder when the crank axle is turned to a predetermined position, means to limit rearward motion of the link when the link is released from said shoulder-engaging element, a lever fulcrumed on the crank axle and having a detent and a shoulder, manually operated means to engage the last shoulder to cause the lever to move its detent into engagement with the ratchet wheel, and an abutment on the frame adapted to engage the last shoulder when the crank axle is turned to said predetermined position to retract the lever from ratchet wheel-engaging position.

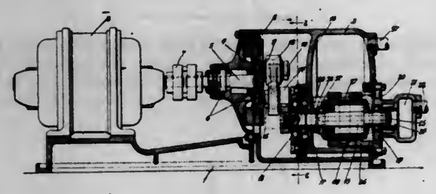
1,452,717. SCAFFOLD JACK. HARVEY C. WERTZ, Homestead, Pa. Filed Feb. 20, 1922. Serial No. 537,824. 11 Claims. (Cl. 304—18.)

1. A scaffold jack, comprising a pair of triangular supporting frames, each consisting of a base bar and a side bar of fixed length pivotally connected together at one end and a two part telescopic brace pivotally connected to the free ends of the base and side bars, the brace bar of one of said triangular frames being formed to fit telescopically over the side bar of the other triangular frame; means for securing said telescopically connected



side bars in different adjusted positions; and means for securing the telescopic parts of said braces in different adjusted positions.

1,452,718. COMPRESSOR. EDWARD WILSON, St. Louis, Mo., assignor to Wilson Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 14, 1921. Serial No. 500,534. 27 Claims. (Cl. 230—29.)

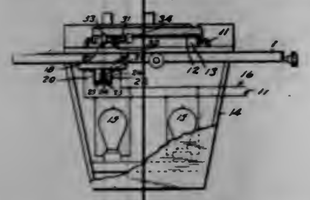


1. A compressor, comprising a cylinder, radial sectors extending inwardly from the cylinder, pistons within the cylinder between the radial sectors, and mechanism for imparting relative rocking movement between the cylinder and the pistons; in combination with end walls for the cylinder secured to the rocking part, air inlet passages through the end walls for admitting air into the cylinder between said pistons and said sectors, air outlet passages from the cylinder formed in part in the end walls and in part in said sectors, and valves in said outlet passages in the sectors permitting compressed air to pass from the cylinder through said passages.

1,452,719. LIGHT-CONTROLLING DEVICE FOR PHOTOGRAPHIC-PRINTING MACHINES. WILLIAM D. WOOD, Seattle, Wash., assignor to Specialty Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Oct. 12, 1920. Serial No. 416,467. 2 Claims. (Cl. 95—73.)

1. In apparatus of the character described, a casing, a frame hinged to the top of said casing, a switch disposed below said frame, a vertically movable post extending through said casing, means connected with the said post for closing the switch when said post is moved

downwardly, springs urging said post upwardly, and a trip member on said frame arranged to engage with and



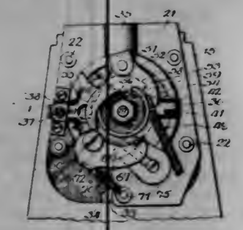
depress said post when the frame is lowered, said trip member being arranged to be manually moved independently of said frame to release said post.

1,452,720. BOX-COVERING MACHINE. ALBERT WORCESTER, Los Angeles, Calif. Filed Sept. 1, 1922. Serial No. 585,649. 14 Claims. (Cl. 93—54.)



1. In a box covering machine, a pivotally mounted cutter carrier, means for pressing the carrier to its effective cutting stroke, means for retracting the carrier, and overbalance weights operative to continue the retracting movement of the cutter carrier when it has been released by the retracting means.

1,452,721. CHECK-CONTROLLED MACHINE. ALFRED D. ANTOINE, Chicago, Ill., assignor to Advance Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 28, 1921. Serial No. 456,109. 13 Claims. (Cl. 194—63.)



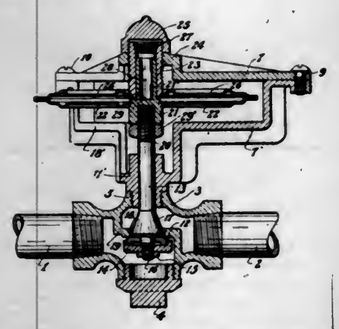
1. Check controlled mechanism embodying a check carrier having a forward and backward movement, a rotatable ratchet disc, a ratchet element co-operating with the disc for maintaining the latter in its adjused position, a check support for receiving the check from the carrier, a portion of the said ratchet element co-operating with the said seat and spaced therefrom a distance less than the diameter of the check, a portion of the check carrier operating on its retrograde movement to force the check between the said seat and the said portion of the ratchet element to shift the latter to release the disc, and means operating upon the disc when the latter is released to rotate the same with the check carrier, another portion of the check carrier operating upon the check to force the check from the support to release the said ratchet element to permit the latter to become active with respect to the said disc.

1,452,722. NECKTIE HOLDER. HERMAN ARVIDSON, Minneapolis, Minn. Filed Mar. 10, 1922. Serial No. 542,558. 4 Claims. (Cl. 24—49.)



1. A necktie holder comprising, a narrow frame having a widened portion at its upper end, the top part of which is adapted to be spaced from and above the collar button, said portion being flat and adapted to be disposed in the knot of the tie to engage a fold at the top thereof to hold the tie in position, and means adjacent the bottom of said frame for holding the same in position adapted to engage the tie and shirt.

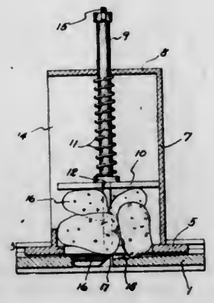
1,452,723. THERMOSTATIC VALVE. CHARLES H. ATKINS, Palmer, Mass., assignor to Phoenix Sprinkler Company, Springfield, Mass., a Corporation of Massachusetts. Filed May 13, 1920. Serial No. 381,104. 7 Claims. (Cl. 169—19.)



1. In a mounting for a double walled expansible diaphragm chamber, a fixed sleeve to which the outer wall of the chamber is secured, and a movable sleeve to which the other wall is secured, the latter sleeve being slidably located within the fixed sleeve for the purpose of furnishing means for aligning the latter sleeve and for filling the space between the diaphragm.

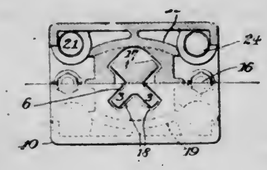
6. In a thermostatically controlled valve structure, the combination, of a double walled expansible diaphragm, one wall of the same being fixed and the other movable, a casing in which the valve is located, supply and discharge pipes connected to the casing, a valve seat having an opening therethrough, a single conical shaped valve supporting member with its base part located in the opening when the valve is in its closed position, to close the opening, a valve stem which is connected to the movable wall of the diaphragm, the construction and arrangement being such that upon the outward movement of the movable wall the valve is moved away from its seat against the incoming pressure, and upon the inward movement of the wall the valve is moved to its seat and the conical shaped member will gradually close the opening to prevent hammer action.

1,452,724. VEGETABLE SLICER. JOSE M. BLANCO, Newark, N. J. Filed July 25, 1922. Serial No. 577,350. 1 Claim. (Cl. 146—7.)



A slicing device of the class described comprising an angular slotted platen, a slicing knife mounted in said angular slot, plate members covering the ends of said slot having projections formed thereon, ears on said cutting knife, threaded screws connecting said plate projections and ears of said knife, said screws adapted to lift or lower said slicing knife, and means urging the vegetables into contact with the cutting edge of the knife.

1,452,725. SHOCK-ABSORBING MECHANISM. CHESTER K. BROOKS, Mentor, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1922. Serial No. 547,358. 5 Claims. (Cl. 213—36.)



1. In frictional shock absorbing mechanism, a longitudinally-extending included friction member having a plurality of radially disposed arms, certain of the spaces between the arms having diverging longitudinally extending laterally tapered friction faces, a friction shoe in each such space engaging such faces, each shoe having an inclined wedging face, and a wedge member engaging the wedging face of each shoe and being capable of expansion under pressure from the shoes as the shoes move longitudinally and laterally along the said tapered friction faces and having an elastic grip upon said shoes, said wedge having reinforcing webs arranged under tension in buffing and pulling to be deformed and to resist expansion of the wedge.

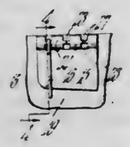
1,452,726. PAD FOR PRESSING MACHINES. OSCAR E. W. BRUNK, St. Louis, Mo., assignor to Joseph J. Marx, St. Louis, Mo. Filed June 14, 1920. Serial No. 388,753. 2 Claims. (Cl. 68—1.)

1. An elastic and flexible pad for pressing machines, comprising a mass of felted spring metal shavings, in combination with a flexible reticulated side member on one side of the mass of shavings conforming to the shape of said mass, and binding elements binding the edges of the reticulated side member and the mass of shavings together, and leaving the intermediate portion



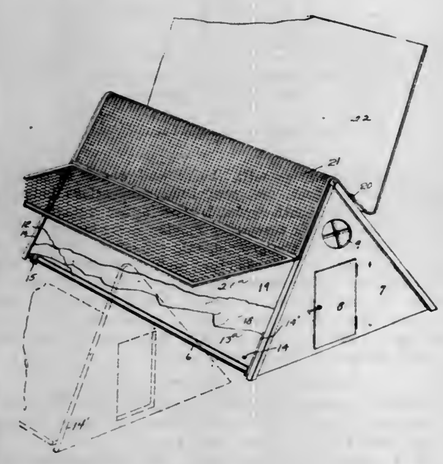
of the mass of felted shavings free as to their resiliency, said pad being a unit that is applicable to and removable from the pressing machine as such.

1,452,727. KEY-CASE HOLDER. WARNER R. BUXTON, Longmeadow, Mass., assignor to Buxton, Incorporated, a Corporation of Massachusetts. Filed June 8, 1922. Serial No. 566,869. 4 Claims. (Cl. 150—40.)



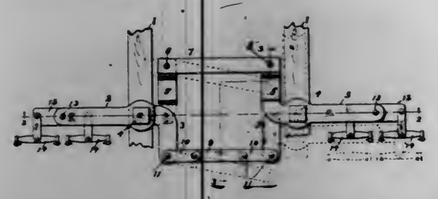
2. A key case holder, comprising, a sheet metal plate having a plurality of slots therein adjacent one edge thereof and an integral part connected to and extending from one side wall of the slot across the latter and terminating adjacent but not connected to the opposite wall of the slot.

1,452,728. CHICKEN COOP OR BROODER. CHARLES WATTS CAROL, Globe, Ariz. Filed Apr. 19, 1922. Serial No. 555,592. 2 Claims. (Cl. 119—19.)



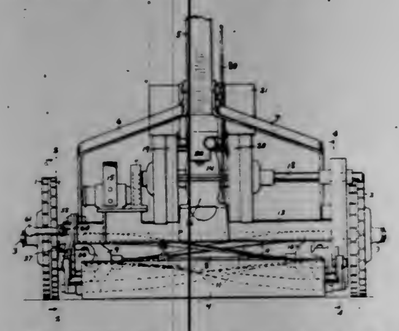
1. A coop of sheet metal having ways formed in its end walls for the reception of lining sections of wood and sheets of paper disposed between the sheet metal coop and the wood said lining sections of wood and paper being equal in area to the side of the coop.

1,452,729. FOUR-HORSE EVENER. RALPH DE BOER, Sheldon, Iowa. Filed Jan. 27, 1922. Serial No. 532,207. 3 Claims. (Cl. 278—9.)



1. In an apparatus of the class described, the combination of a pair of cultivator beams, a pair of upper, L-shaped lever arms resting on said beams, the inner ends of said lever arms extending inwardly between the beams, a pair of lower, L-shaped lever arms against the beams, the inner ends of said lever arms extending outwardly between the beams, an upper link provided with bifurcations in its ends, the inner ends of said upper lever arms in said bifurcations, means pivotally connecting the inner ends of the upper lever arms and the ends of said connecting link, a lower link against the inner ends of the lower lever arms between the beams, plates on said lower link and said inner ends of the lower lever arms, fastening means connecting the lower lever arms, lower link and plates together, and draft animal connecting means pivotally secured between the outer ends of said upper and lower lever arms.

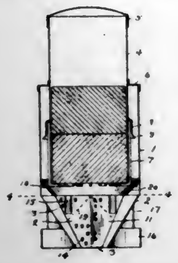
1,452,730. MOTOR-DRIVEN LAWN MOWER. ALBERT J. DREMEL, Racine, Wis. Filed Nov. 1, 1920. Serial No. 421,106. 4 Claims. (Cl. 56—26.)



1. The combination with the ground wheels of a lawn mower, of a motor, and propelling connections between the motor and both ground wheels for rotating the ground wheels in a forwardly moving direction with uniform velocity over the ground, said propelling connections including separate pawls for each ground wheel for transmitting power from the motor thereto, the pawls being so arranged as to permit either or both of the ground wheels to be rotated in a forwardly moving direction at greater velocity than the velocity being imparted thereto by the motor.

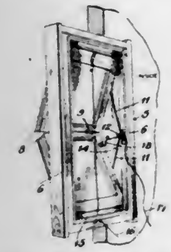
1,452,731. PORTABLE GAS GENERATOR. DAVID C. DUNCAN, Duluth, Minn. Filed Nov. 24, 1919. Serial No. 340,382. 2 Claims. (Cl. 48—22.)

1. A combined carbide holder and water-controlling device therefor, comprising a cylindrical casing surrounding the holder having a frustro conically shaped extension upon the bottom thereof below the holder, vertically disposed baffles within the extension, a concentric vertically disposed baffle within the first mentioned baffles, a frustro conically shaped baffle surrounding the lower end of the holder above the baffles, the upper end of said frustro conically shaped baffle being the full size of the inside diameter of the casing, and carried thereby, said



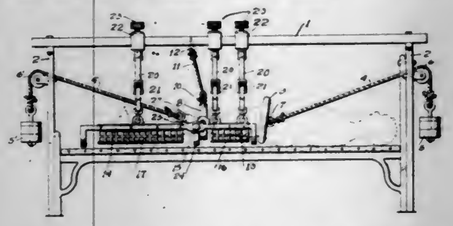
casing having vent holes therethrough below the upper end of the frustro conically shaped baffle, substantially as and for the purpose described.

1,452,732. WINDOW CONSTRUCTION. FRANK DUTCHER, Los Angeles, Calif. Filed May 20, 1921. Serial No. 471,106. 7 Claims. (Cl. 20—42.)



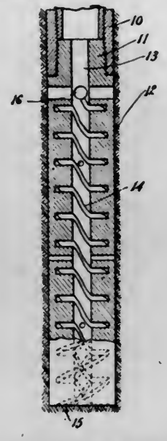
1. In combination with a window frame and a pair of sashes hingedly connected at their meeting ends and having their other ends mounted in the frame for pivotal and vertical sliding movement; means centrally pivoted to each side of the window frame and operatively connected to each of the sashes to counterbalance said sashes against each other and permit the same to simultaneously move from their closed to substantially fully open position.

1,452,733. SURGICAL APPARATUS. WILLIAM HENRY GARLOCK, Seattle, Wash. Filed Dec. 8, 1921. Serial No. 521,010. 4 Claims. (Cl. 128—85.)



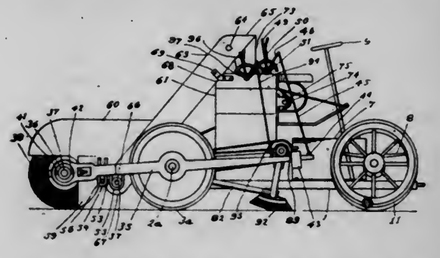
1. In a surgical apparatus of the class described, the combination of a frame disposed above the couch of the patient, means for supporting the upper portion of the injured limb, means for supporting the lower portion of the injured limb, hinged means hingedly connecting said upper and lower supporting means, adjustable means suspended from the frame member and by which the limb supporting means in turn are adjustably suspended, and means for securing said adjustable means in the desired adjusted position longitudinally of the frame member.

1,452,734. ROCK DRILL. GUSTAV GRIESCHE, Berkeley, Calif. Filed Aug. 23, 1921. Serial No. 494,661. 8 Claims. (Cl. 255—61.)



1. A boring tool comprising a substantially cylindrical bit, a longitudinal bore therethrough, and a plurality of internal helical threads within the bit, communicating with the cutting face thereof and radiating from the longitudinal bore of the bit.

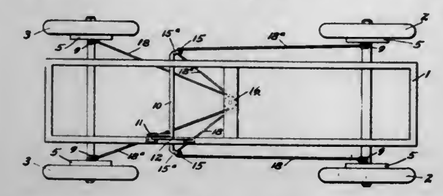
1,452,735. STREET-SWEEPING MACHINE. HENRY G. HAWORTH, Leavenworth, Kans., assignor of one-half to Benjamin F. Samuels, Leavenworth, Kans. Filed May 7, 1919. Serial No. 295,443. 3 Claims. (Cl. 15—84.)



1. In a street-sweeping machine, the combination of a frame, a receptacle on the frame, an axle shaft on the frame near the rear end of the same, supporting arms pivotally mounted intermediate their ends on the ends of the axle shaft, counter-weights on the front ends of said arms, journal boxes pivotally secured in the rear ends of said arms, a rotary broom journaled in said boxes, open top bearings carried by said arms intermediate said broom and axle shaft, an inclined elevator having a lower shaft removably journalled in said open top bearings and its upper end supported against the top of said receptacle, an apron carried by said arms between the elevator and the rotary broom, and means for driving said broom and the elevator from the axle shaft.

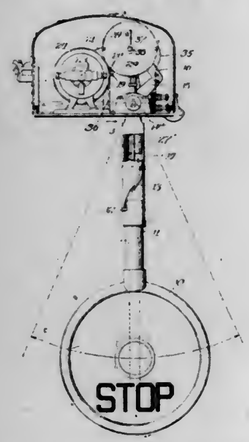
1,452,736. BRAKE. JOHN A. HEYSER, Los Angeles, Calif. Filed Feb. 3, 1921. Serial No. 442,233. 3 Claims. (Cl. 188—204.)

3. The combination with a vehicle having front and rear wheels, of brakes upon the respective wheels, a brake shaft, central pulleys, side pulleys on said brake shaft set in advance of the central pulleys, and flexible operating connections extending from the respective front wheel brakes around said central pulleys and thence forwardly to the side pulleys on said brake shaft at the



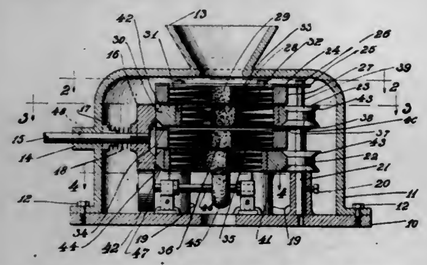
opposite sides of the vehicle and thence to the rear wheel brakes at the same sides of the vehicle as said respective side pulleys.

1,452,737. SIGNALING DEVICE. FREDERICK M. HILL, Chicago, Ill. Filed Oct. 1, 1917. Serial No. 194,122. 23 Claims. (Cl. 177—339.)



1. In a waving signal, a signal device having an oscillating support on which it is mounted and through which it receives a continuing waving movement to express a signal, said signal having a connection with said support through which it moves independently of its signaling movement, to and from signaling position on said support.

1,452,738. ABRASIVE DEVICE. WILLIAM J. HOBERG, Jersey City, N. J. Filed Aug. 11, 1922. Serial No. 581,189. 10 Claims. (Cl. 146—14.)

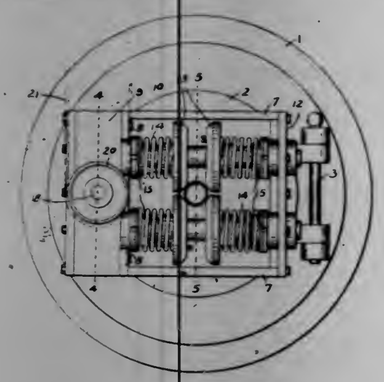


1. A machine, comprising a plurality of abrasive elements, including stationary and rotary elements, the latter disposed eccentrically relative to the former.

1,452,739. DECOLORIZING AND PURIFICATION OF SACCHARINE MATERIALS. JOHN JAMES HOOD, London, JOHN CLARK, Hutton, and PERCY GEORGE CLARK, London, England. Filed Nov. 4, 1919. Serial No. 335,618. 5 Claims. (Cl. 127—15.)

1. The process of decolorizing saccharine liquid which comprises filtering it through ignited aluminum hydrate which has been cooled.

1,452,740. FEED MECHANISM FOR SWAGING MACHINES. CLARE S. JACOBS, Detroit, Mich., assignor to Tube Products Company, Detroit, Mich., a Corporation of Michigan. Filed June 20, 1921. Serial No. 478,878. 6 Claims. (Cl. 78—97.)



1. In a rod or tube feed mechanism, the combination with two parallel shafts, of two opposed pairs of feed rollers respectively splined upon said shafts, springs urging the rollers of each pair toward each other, and a common driving means for said shafts.

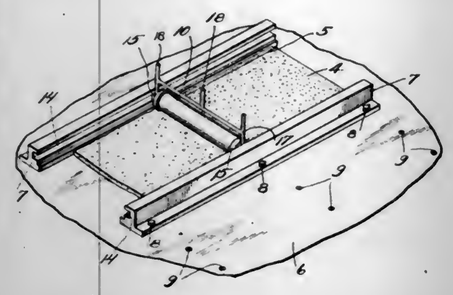
1,452,741. STYLUS GUIDE FOR PSYCHIC GAMES. FRANK C. JENNESS, Los Angeles, Calif., assignor of one-half to Elias H. Grove, Los Angeles, Calif. Filed May 11, 1921. Serial No. 468,480. 5 Claims. (Cl. 46—41.)



2. In combination, a planchette, a stylus movably sustained on the planchette to occupy active and inactive positions, and means for urging the stylus to the active position.

1,452,742. APPARATUS FOR MANUFACTURE OF WALL BOARD. ROBERT J. JOHNSTON, Kansas City, Mo., assignor of one-half to George F. Rogge, Corder, Mo. Filed Feb. 6, 1922. Serial No. 534,454. 3 Claims. (Cl. 25—21.)

1. In apparatus for making sheets of wall board having a marginal shouldered lip, a bed providing a supporting surface for receiving the wall board material in plastic condition, a roller adapted for travel across said supporting surface for spreading said material into a layer of uniform thickness, the opposite ends of said roller being provided with guide projections, and parallel frame members formed with guideways for receiving said guide projections and operating therethrough to maintain said roller at a constant distance above said supporting surface, one end of said roller being formed with



an annular enlargement operative to produce said shouldered lip by depressing the material along a continuous line running in the direction of travel of the roller.

1,452,743. SEPARABLE FASTENER. MORRIS KEIL, New Orleans, La. Filed May 3, 1922. Serial No. 558,083. 4 Claims. (Cl. 24—288.)

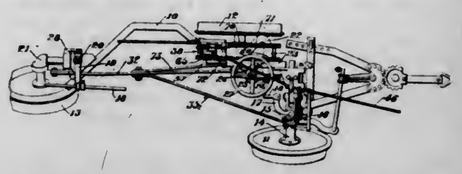


1. A separable apparel fastener comprising, in combination, an elongated element, means on said element whereby it may be secured to a fabric, a fastener comprising two members, readily separable means for securing said members together, means on one of said members embracing said element to slidably mount said member thereon, the second member adapted to be fixedly secured to fabric to be secured to said first named fabric.

1,452,744. PLOWLIFT. HORACE G. KNAPP, San Jose, Calif., assignor to Knapp Plow Co., Inc., San Jose, Calif., a Corporation of California. Filed Feb. 9, 1921. Serial No. 443,534. 5 Claims. (Cl. 97—72.)

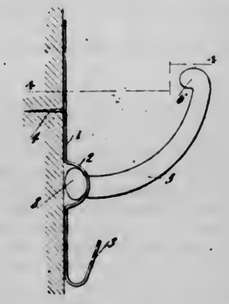
4. In combination with the main frame of a plow having front, rear and side wheels, lifting mechanisms associated with each of said wheels, said mechanisms being operatively connected, an operating shaft, an arm secured thereon and connected to said mechanisms whereby turning movement of the shaft will operate the same, a disk having diametrically opposed notches secured on the shaft, a lock lever pivoted to the frame and having

means normally in engagement with one of said notches whereby to maintain the shaft stationary, an operating lever pivoted to the shaft, internal ratchet teeth formed



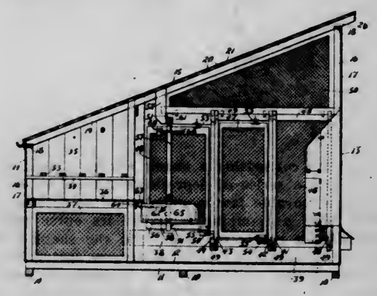
in said disk, a pawl on said lever adapted to cooperate with the teeth when the lever is oscillated to rotate the shaft when said lock lever is disengaged from the disk.

1,452,745. GARMENT HANGER. JOHN A. LANDAN, New York, N. Y. Substitute for application Serial No. 442,643, filed Feb. 5, 1921. This application filed Oct. 10, 1921. Serial No. 506,611. 4 Claims. (Cl. 248—24.)



1. A method of making a garment hanger or the like, which consists in making a body portion provided with a slit and in forming a hanger portion having an enlarged point adapted to pass through the said slit only when the said hanger portion is laterally bent with respect to the said body portion, the said hanger portion being formed in such laterally bent condition, inserting the point of the said hanger portion through the said slit so as to connect the said body portion and the said hanger portion, and then straightening the said hanger portion so as to prevent the removal thereof from the body portion.

1,452,746. POULTRY HOUSE. PETER R. LYDING, Sacramento, Calif. Filed Oct. 19, 1920. Serial No. 418,042. 9 Claims. (Cl. 119—21.)



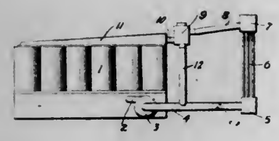
1. A poultry house having a longitudinal runway and provided with longitudinal roost bars located at one side of the runway, permanently mounted partitions extending across the roost bars from the runway to the adjacent side of the poultry house, removable partitions cooperating with the permanently mounted partitions extending to the opposite side of the poultry house, and having automatically closing doors extending across the runway and adapted to be operated by a car, and a roost floor located beneath the roost bars and having a longitudinal car guide.

1,452,747. SAFETY PIN. GUS W. MARKOS, Columbus, Ohio. Filed Aug. 21, 1922. Serial No. 583,073. 2 Claims. (Cl. 24—158.)



1. A safety-pin, comprising a U-shaped pin member having a point at one end and screw-threaded at its other end, a head having a screw-threaded opening at one end adapted to travel on the screw-threads of the pin member, and a guard-member loosely mounted between shoulders on the head member in a manner to travel longitudinally therewith and provided at its free end with a guard adapted to engage over the point of the pin member.

1,452,748. AUTOMATIC TEMPERATURE-CONTROLLING MEANS. HARRY C. MALLORY, Bellport, N. Y. Filed Feb. 17, 1916. Serial No. 78,825. 7 Claims. (Cl. 123—178.)

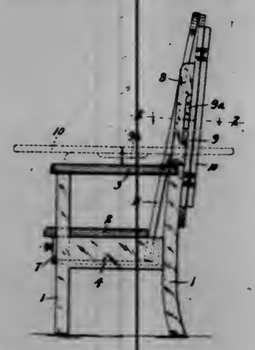


1. In an internal combustion engine cooling system the combination with a radiator and an engine cooling space having its inlet and outlet for cooling fluid connected to said radiator to form a permanently open fluid circulating system, of a conduit connection between said inlet and outlet forming a by-pass about the radiator, a valve controlling flow through said by-pass, and thermostatic actuating means for the valve subjected to a temperature which is approximately that of the cooling fluid when the latter passes out of said cooling space.

1,452,749. CONVERTIBLE CHAIR, IRONING BOARD, AND TABLE. JAMES D. MAYBERRY, Minneapolis, Minn. Filed Mar. 4, 1922. Serial No. 541,039. 4 Claims. (Cl. 155—43.)

1. A combination article of furniture comprising a chair having rigid seat and leg portions, the rear leg portions being extended upwardly to form spaced back portions, rigid arms connected thereto, upper back portions forming continuations of said spaced back portions hinged to said arms, a panel secured to said upper back portions extending therebetween and having transverse members secured thereto, sections hinged to each side of said panel and adapted to swing into the plane thereof and form a table therewith, said table and said hinged upper back portions adapted to swing forwardly and downwardly and be supported on said arms and a member

adapted normally to be supported in front of said panel to form an auxiliary back rest but being adapted to be

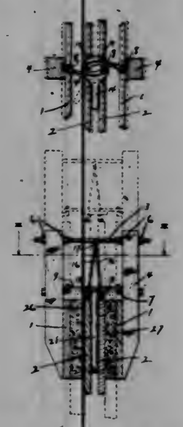


supported in a horizontal position in front of said panel in contact with one of said transverse members to form an ironingboard.

1,452,750. READILY FUSIBLE ALLOY. ARTHUR DE WOLF MULLIGAN, London, England. Filed Nov. 9, 1921. Serial No. 514,032. 1 Claim. (Cl. 75—1.)

Fusible alloys melting between about 155° F. and 320° F. possessing strength, ductility and unaffected by weak acids or alkalies, comprising a mixture of between 0.8% and 2.5% of antimony, between 12% and 29.6% of tin, between 12% and 61% of lead, between 6.6% and 18% of cadmium and between 3% and 50% of bismuth.

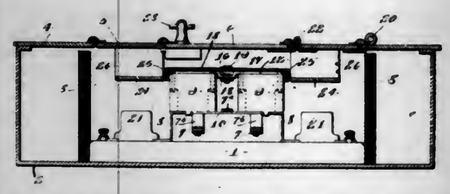
1,452,751. CONCRETE-WALL CONSTRUCTION. AXEL HERMAN NELSON, Turlock, Calif. Filed Sept. 17, 1921. Serial No. 501,378. 6 Claims. (Cl. 25—131.)



1. A form for constructing a hollow concrete wall, comprising a set of exterior planks having uprights extending therefrom, a rod for joining corresponding uprights at the top in spaced relation, a set of interior planks loosely supported between the exterior planks, and a lever having two links associated therewith engaging corresponding uprights at a lower point for forcing the same apart or together, and means associated with the lever for simultaneously actuating the interior planks in an opposite sense.

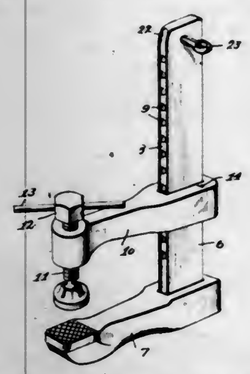
6. In a device of the character described, means for simultaneously spacing an inner set and an outer set of form members, comprising two curved links pivotally engaging the outer form members in corresponding places and extending inwardly, a lever disposed with its fulcrum between the two points of engagement, means for engaging the inner ends of the links with the lever so that the links passing around the fulcrum are locked on the centerline when the lever is in its form holding position, and a cam member extending downwardly from the lever between the inner form members for spacing the same in a direction opposite to that of the outer members.

1,452,752. PANEL-BOARD CONSTRUCTION. EDWIN A. OLLEY, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 13, 1918. Serial No. 239,723. 11 Claims. (Cl. 247—10.)



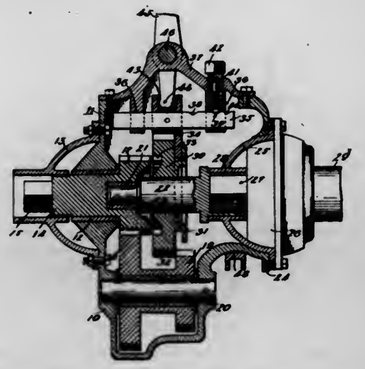
11. In a panel board, a base, a cabinet having a top including a door, circuit controlling devices within the cabinet and opposed to the door and having operating parts exposed when the door is open, and a guard comprising a plate, carried by and spaced apart from the top and arranged substantially parallel thereto and arranged between the door opening and the edges of the top and thereby covering the area of the base around the circuit controlling devices, and the space below the margins of the top around the door opening, substantially as and for the purpose set forth.

1,452,753. CLAMP. WILLIAM H. OTTO and WILLIAM ULRICH, Cincinnati, Ohio. Filed Mar. 9, 1922, Serial No. 542,426. Renewed Feb. 24, 1923. 3 Claims. (Cl. 144—303.)



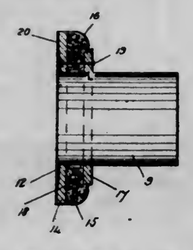
1. A clamp comprising a shank having a fixed jaw at one end, and a series of depressions formed in the edge of shank, a movable jaw mounted to slide on the shank, provided with a clamping screw at its outer end, and formed with a cavity openings into the shank opening thereof, a lock-ball in said cavity, a spring in said cavity for forcing said ball into engagement with the depression in the edge of the shank, said cavity being formed with a shoulder to engage the lock-ball when the movable jaw is tilted and thereby lock the ball in the depression.

1,452,754. SLIDING-GEAR TRANSMISSION FOR FORD AUTOMOBILES. FRED PAEDERSEN, Oakland, Minn. Filed Feb. 4, 1920. Serial No. 356,187. 1 Claim. (Cl. 74—58.)



A sliding gear transmission for Ford automobiles, which consists of a gear case, a transmission pinion shaft journaled therein, having a transmission drive pinion at its inner rear end and also having an axial bore and a counter bore, a sliding gear shaft also journaled in the gear case, axially alined with said transmission pinion shaft and having a reduced end within the said bore and a thrust ring within the said counter bore, said shafts having respectively male and female knuckle members at their outer ends, a sliding gear on the last mentioned shaft having an internally geared portion on one side to engage the transmission pinion, a counter shaft, and connected gears on the counter shaft, one of which is permanently in mesh with the transmission pinion, and with the other of which said sliding gear is detachably engageable, means for shifting the sliding gear between the transmission pinion and the last mentioned counter shaft gear, and into and out of engagement therewith, and means for holding the sliding gear in shifted position, said transmission pinion being of sufficiently greater thickness than its respective counter shaft gear to receive the internally geared portion of the sliding gear in operative engagement therewith at one side of its said counter shaft gear.

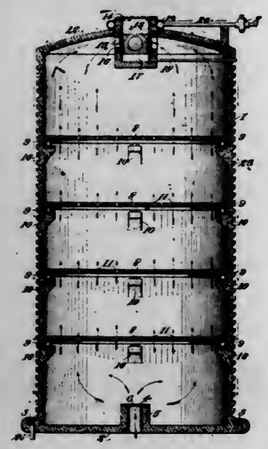
1,452,755. GREASE RETAINER. MARTIN W. PAULING, Dover, Mo. Filed May 5, 1922. Serial No. 558,725. 2 Claims. (Cl. 286—7.)



1. The combination, with a bearing, a tubular housing secured thereto, and an axle journaled in the bearing; of a grease retainer interposed between the bearing and the end of the housing and comprising a sleeve mounted on the axle and having a flange at one end, a large washer of flexible material bearing against the said flange, a felt washer interposed between the large washer and the end of the housing, a relatively small washer of flexible material secured to the felt washer and fitting inside the housing, and a metallic washer mounted on the axle and arranged between the said flange and the axle bearing and bearing against the outer side portion of the large washer.

2. The combination, in a grease retainer, of a supporting sleeve having a flange at one end, a large reinforcing washer arranged on the sleeve against the said flange and projecting beyond it, a felt washer arranged against the large washer, and a relatively small reinforcing washer secured to the said washers and arranged on the other side of the felt washer from the large washer leaving the outer portion of the felt washer exposed on one side.

1,452,756. REFRIGERATOR. WILLIAM M. RAPP, San Francisco, Calif., assignor, by direct and mesne assignments, to Vapo Corporation, a Corporation of California. Filed June 21, 1920, Serial No. 390,556. Renewed Dec. 21, 1922. 1 Claim. (Cl. 62—90.)

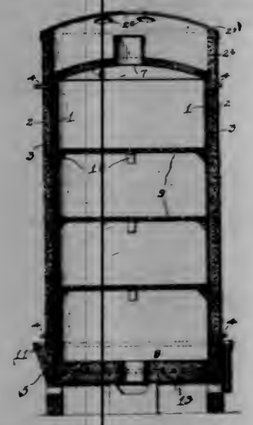


A refrigerator of the class described, comprising a moulded receptacle including a dome shaped top and a closed bottom, a multiplicity of circumferential channels formed in the outer surface of the receptacle, and a trough at the end of said channels, a ventilator in the top of the receptacle, shelves within the receptacle each of which being perforated to permit a circulation of air through the receptacle, the ventilator in the top of the receptacle comprising a casing extending within the receptacle and above the top thereof, said casing having a screened opening above the receptacle and a plurality of openings in the sides thereof, which extend within the receptacle, the bottom of the casing having a sump with a discharge pipe communicating therewith, means for distributing the liquid over the top of the receptacle with the said liquid adapted to gravitate over the outer surface of the receptacle, and in and out of said circumferential channels, said liquid distributing means comprising a distributing manifold surrounding that part of the ventilator casing, extending above the top of the receptacle, said manifold distributor having a series of perforations and a liquid supply pipe communicating therewith.

1,452,757. COOLER. WILLIAM M. RAPP, San Francisco, Calif., assignor, by direct and mesne assignments, to Vapo Corporation, a Corporation of California. Filed Dec. 4, 1920, Serial No. 428,361. Renewed Dec. 21, 1922. 4 Claims. (Cl. 45—134.)

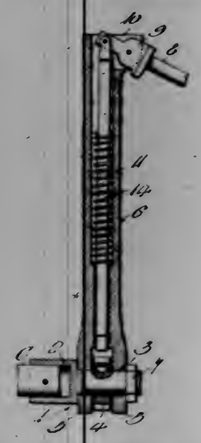
1. A cooler of the class described, including a receptacle having double walls with a space there between,

a top and bottom for the receptacle and a ventilator in both the upper and lower part of the receptacle; the outer wall being higher than the inner wall and consisting of a porous cementatory composition, and the inner wall as well as that of the top and bottom consisting of a moisture resisting cementatory composition,



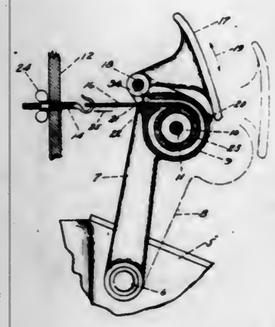
the said top being molded to the inner surface of the outer wall to terminate the said space at the top of the receptacle and providing a water reservoir above the receptacle, and the said bottom terminating the opposite end of the space and including a waste trough around the receptacle with the material composing the outer wall molded to the bottom above said trough.

1,452,758. SAFETY CRANK FOR AUTOMOBILES. GEORGE F. RAUCH, Pukwana, S. Dak. Filed Oct. 27, 1921. Serial No. 510,787. 3 Claims. (Cl. 74—33.)



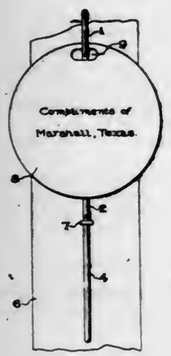
1. A safety crank for automobiles comprising a ratchet member adapted to be fixedly connected with a part of the existing crank shaft, and a hand operated crank including an arm loosely mounted around said ratchet member, a hand grip pivotally mounted at an intermediate point thereof to said arm, and a pawl associated with said crank and cooperable with said ratchet, said pawl being pivotally connected to one free end of and controlled by said hand grip.

1,452,759. FOOT LEVER. JOHN J. REINHOLD, Marietta, Pa. Filed May 20, 1922. Serial No. 562,507. 1 Claim. (Cl. 74—81.)



In a device of the class described, the combination of a foot lever, a foot pedal pivoted on the end thereof, a flexible belt the one end being fixed to a stationary element, means for maintaining said belt taut, and means adapted to lock said foot lever to said belt through the manipulation of said foot pedal.

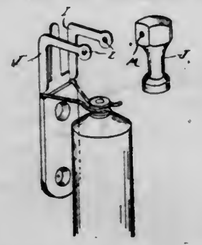
1,452,760. SIGN. FLETCHER S. RIGGS, Marshall, Tex. Filed July 1, 1922. Serial No. 572,207. 1 Claim. (Cl. 40—128.)



In a device for the purpose set forth, a wire member having one of its ends bent to provide a ring, a leg extending from the ring, an angle portion at the end of the leg, a straight extension on the angle portion terminating in a prong designed to be forced into a support, a staple around the said extension also entering the support, and indicia bearing disks arranged on the ring swingable therearound to disclose one face thereof and to be supported in such position by contact with the leg and with each other, as and for the purpose set forth.

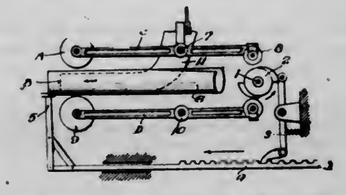
1,452,761. COLLAPSIBLE TUBE HOLDER. WILLIAM H. ROBERTS, Detroit, Mich., assignor to Detroit Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 8, 1921. Serial No. 490,463. 4 Claims. (Cl. 248—20.)

3. A holder for collapsible tubes comprising a sheet metal stamping apertured for engagement with securing means, a member having a portion engaging said stamping and provided with arms for engaging the nipple



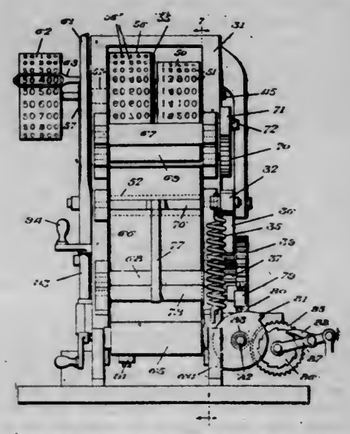
of the tube, and a member detachably secured to said stamping for capping said nipple while in engagement with said arms.

1,452,762. ELECTRIC SEAM-WELDING MACHINE. EDMUND SCHRÖDER, Berlin, Germany. Filed Mar. 15, 1920. Serial No. 366,177. 5 Claims. (Cl. 219—6.)



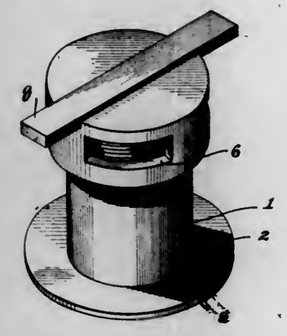
3. In an electric seam welding machine, the combination of a roller electrode, a mandrel-shaped electrode, and a circuit for the two, with a main shaft, a lever carrying the said roller electrode, a rack adapted for attachment to the work piece, a pawl engaging such rack, a lever carrying this pawl, means on the said main shaft for operating both said levers, means geared to this main shaft for sustaining the work piece seated on the mandrel electrode, and means for closing the said circuit while the work piece is at rest, substantially as set forth.

1,452,763. WEIGHING MECHANISM. STEPHEN W. SMUFORD, Woodlawn, N. C. Filed Apr. 13, 1920. Serial No. 373,482. 3 Claims. (Cl. 265—9.)



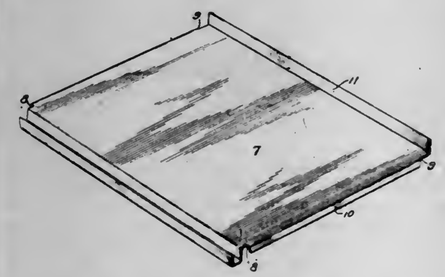
1. A weighing apparatus embodying a yieldable platform, a recording device operatively connected to the platform to be set by the depression thereof, tread members located at opposite ends of the platform, and means for alternately operatively connecting said members with said device for operating same to produce a record.

1,452,764. VALVE. WALTER ROBERT SMITH, Lompoc, Calif. Filed Mar. 24, 1921. Serial No. 455,076. 1 Claim. (Cl. 137—13.)



In a valve of the class described, a pipe section having a flange at one end adapted to be embedded in a cement base with the pipe section in alinement with a water distributing pipe, the opposite end of said pipe section being threaded, a cap closure for said threaded end including a plurality of openings in its sides, said cap closure adapted to be turned up and down on said threaded end for regulating the effective discharge area of the openings in the sides thereof in respect to the opening in the top of the pipe section, a radial slot in the top of said cap closure and a key in said slot providing means for rotating the cap closure, substantially as and for the purpose described.

1,452,765. SHELF. WILLIAM J. STATLER, Buffalo, N. Y., assignor to The Jewett Refrigerator Company, Buffalo, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,221. 1 Claim. (Cl. 211—27.)



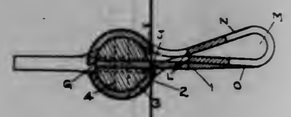
As an article of manufacture, a shelf comprising a body portion, parts of opposite side edges of said body portion being bent downwardly, another side of said body portion being bent upwardly to form an abutment and stiffening rib, the side of said shelf opposite the upturned side being bent downwardly and then upwardly to form a trough and the extreme edge of said side forming the trough being folded down upon itself to form a smooth rounded edge.

1,452,766. FENCE. JACOB STEFAN, Jr., Chicago Heights, Ill., assignor, by mense assignments, to Inland Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 8, 1922. Serial No. 542,101. 1 Claim. (Cl. 256—48.)



A clip for fencing in which there is a T bar post and a horizontal fence wire passing across its front face, said clip being of stout, bendable wire having a hook at one end adapted to engage one of the post flanges, a flatly bowed section adapted to extend across the face of the post, and a backward reaching section bent in such direction that the included angle, relatively to the front section, is approximately 60 degrees, the backward reaching section extending to and considerably beyond the rear flange, whereby it may be bent around said rear flange and the resistance for producing the bend be furnished by said flange.

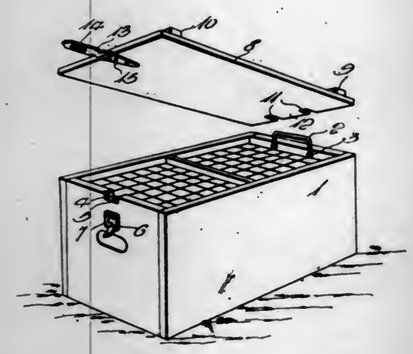
1,452,767. SAFETY RAZOR. ANTON P. STIANSEN, Brooklyn, N. Y. Filed Dec. 23, 1920. Serial No. 432,827. 7 Claims. (Cl. 30—12.)



1. The combination, in a safety razor, of the blade 1 fastened to the holder 3 and provided with notches A, B and C, a guard 2, provided with a loop M having notches therein and oscillatably mounted on said holder by means of bearings D, E and F, said bearings having a gap G for said blade to slide in on removal and replacement of said guard and the middle bearing E extended longitudinally to form edges H and J providing means for engaging said blade and holding it against either side of said guard; substantially as specified.

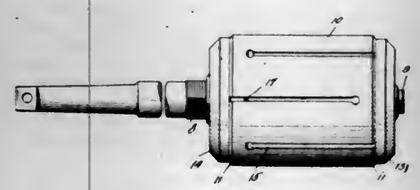
1,452,768. SHIPPING CONTAINER. WALTER TRIBBLE, Oakland, Calif. Filed June 22, 1922. Serial No. 570,131. 5 Claims. (Cl. 217—56.)

1. A shipping container or the like comprising a box-like receptacle, a lid therefor, an upstanding loop carried by one end of said receptacle, a tongue projecting longitudinally from one end of said lid and adapted to be inserted through said loop for detachably fastening



one end of said lid to said receptacle, and means for releasably fastening the other end of said lid to the other end of said receptacle.

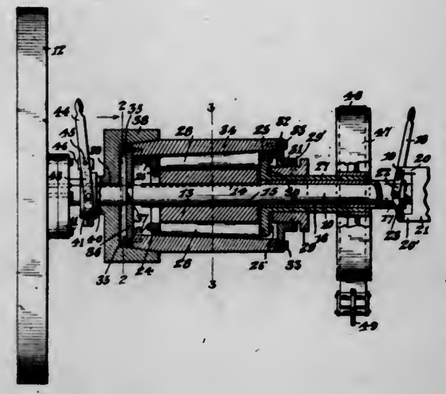
1,452,769. LAPPER. LORING V. WARNER, Fostoria, Ohio. Filed Mar. 6, 1922. Serial No. 541,429. 2 Claims. (Cl. 51—206.)



1. A cylinder lapping device comprising a body portion, said body portion having tapered walls, a sleeve positioned on the body portion and having tapered walls cooperating with the tapered walls of the body portion to cause the sleeve to expand and contact upon movement of the sleeve with respect to the body portion, said sleeve having slotted portions and having tapered end portions, said slotted portion permitting expansion and contraction of the wall of the sleeve, and means cooperating with the tapered end portions of the sleeve for moving the sleeve longitudinally of the body portion.

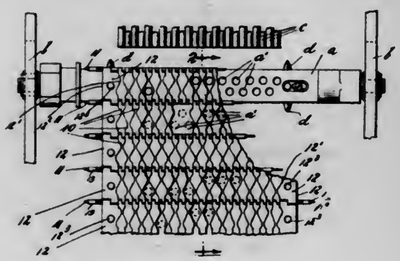
1,452,770. POWER-TRANSMITTING MECHANISM. BENJAMIN F. WEBB, Sistersville, W. Va., assignor of nine-twentieths to Andrew J. Karl and one-eighth to Fred Appel, both of Sistersville, W. Va., and one-tenth to Paul Engle and William H. Carter, both of Middlebourne, W. Va. Filed Feb. 14, 1922. Serial No. 536,433. 4 Claims. (Cl. 74—26.)

1. In a power transmission mechanism, a power shaft, a driven element loosely mounted on said power shaft, friction means including a longitudinally shiftable element operating with the drive shaft and a support provided with a plurality of driving elements operated from said shiftable element for connecting said driven element with said power shaft for rotation in the same direction therewith, means effecting a braking action on said support to arrest movement thereof whereby said driving elements will cause a reversed direction of rotation to said driven element, and means for connecting



said driven element to said power shaft for rotation in the same direction therewith whereby said first mentioned means may be rendered inoperative.

1,452,771. JACQUARD MECHANISM FOR WEAVING MACHINES OR THE LIKE. RUDOLPH HERMAN WEBER, New York, N. Y. Filed Jan. 31, 1922. Serial No. 532,976. 8 Claims. (Cl. 139—42.)

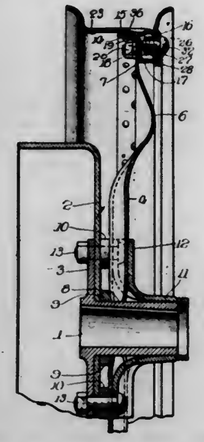


1. In a jacquard mechanism for weaving machines, or the like, the combination with the jacquard cylinder having holes or bores, of an adjustable endless jacquard band composed of flexibly connected rows of removable individual solid members, each to fit over and when removed to expose a single hole in said cylinder.

1,452,772. STEEL WHEEL FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,388. 7 Claims. (Cl. 301—11.)

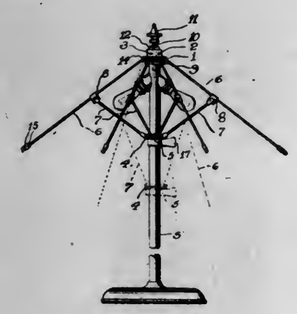
1. In a wheel of the class described, the combination with a disk having an annular member secured to the marginal portion of its outer face and provided at its own inner margin with an annular laterally projecting flange, of a rim body member encircling said annular member and having at one margin an annular flange

extending toward the center of the wheel and provided with a lateral groove engaging the margin of said later-



ally projecting flange, and means for rigidly connecting said disk, annular member and rim body member.

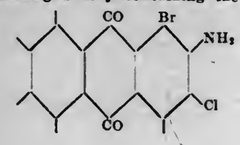
1,452,773. DETACHABLE AND FOLDABLE LAMP SHADE. ROSA M. AMORES, Washington, D. C. Filed Aug. 29, 1922. Serial No. 584,957. 3 Claims. (Cl. 240—117.)



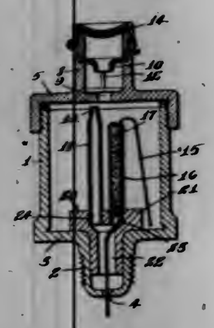
1. As a new article of manufacture, a collapsible shade holder comprising an upper ring member, a lower ring member comprising two parts hinged together and spring pressed to form a clamp, shade supporting arms pivotally connected at their ends to the upper ring, and braces having their opposite ends pivotally connected to the lower member and to said arms intermediate their ends.

1,452,774. INTERMEDIATES AND DYESTUFFS OF THE ANTHRAQUINONE SERIES. FREDERICK WILLIAM ATACK, Manchester, England, and CHARLES WILLIAM SOUTAR, St. Andrews, Scotland. Filed June 3, 1921. Serial No. 474,757. 4 Claims. (Cl. 260—31.)

4. The process of preparing a new dyestuff which consists in condensing a body containing the grouping

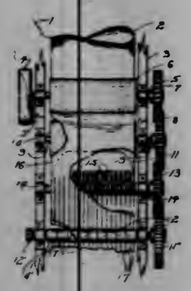


1,452,775. LUBRICATING DEVICE. CHESTER A. BACON, Auburn, N. Y., assignor to Bowen Products Corporation, Auburn, N. Y., a Corporation of New York. Filed Sept. 20, 1921. Serial No. 501,902. 3 Claims. (Cl. 184—65.)



1. A lubricating device comprising a normally closed receptacle for receiving a lubricant under pressure, slow feed and fast feed outlet conduits arranged to convey a lubricant from the receptacle, the fast feed conduit terminating and opening into the receptacle near the upper wall of the receptacle in order to convey the lubricant therefrom when the receptacle is full and the lubricant is under pressure, the fast feed conduit being tapered at its upper end and arranged to conduct the oil from the receptacle under the pressure of the lubricant in the receptacle, substantially as and for the purpose described.

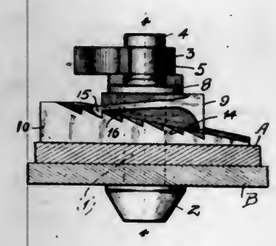
1,452,776. RUG MANUFACTURE. CHARLES F. BACON, Toledo, Ohio, assignor to The Bacon Bros. Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 13, 1922. Serial No. 543,194. 17 Claims. (Cl. 28—1.)



1. In the production of a flat textile material of heavy body, the knitting of a strip, multiplying the strip into a plurality of longitudinal sections by slitting, extending by stretching a continuous section thereof to effect a closing in of the fabric to determine its body and automatically minimize marginal fraying, and assembling into a flat product.

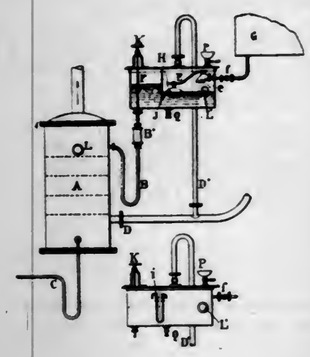
1,452,777. LOCKING BOLT. STEPHEN W. BAND, San Francisco, Calif., assignor of one-half to William Hackett, Oakland, Calif. Filed Mar. 14, 1922. Serial No. 543,694. 1 Claim. (Cl. 85—8.)

A locking bolt provided with a shank having a head at one end with its opposite end made to co-operate with a locking element, said shank adapted to be passed through two or more plates to be clamped together with said plates confined thereon by said locking element, a block having an opening, said shank adapted to be passed through said opening for confining the block on the shank, and a slotted wedge having teeth on opposite sides of the slot, said wedge adapted to straddle the shank of the bolt between said block and said plates, with spring fingers on said block engaging the teeth of the wedge



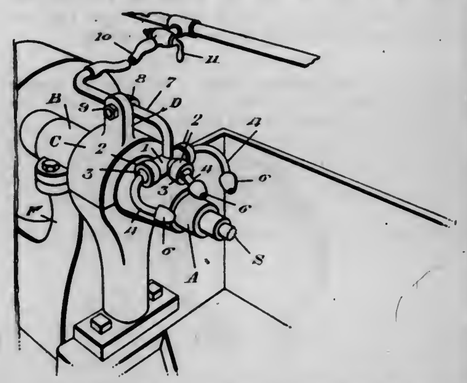
for maintaining the wedge in clamping relation with the plates, said spring fingers being cut as integral parts of the block and formed on opposite sides of the block and embodying in their construction headed ends made to engage the teeth of the wedge, a pair of parallel inverted V-shaped grooves on the block on opposite sides of the slot therein, and a pair of inverted V-shaped tracks on the wedge made to cooperate with said V-shaped grooves on the block to guide the block on the wedge.

1,452,778. PROCESS AND APPARATUS FOR THE RECOVERY OF THE VAPORS OF VOLATILE LIQUIDS FROM AERIFORM MIXTURES. EMILE AUGUSTIN BARBET, Paris, France. Filed Aug. 2, 1920. Serial No. 400,781. 9 Claims. (Cl. 252.)



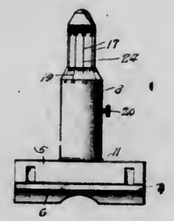
1. A process for recovering petroleum, petrol, benzol, alcohol, ether and other volatile vapors from aeriform mixtures arising in reservoirs containing substances from which said vapors are formed, consisting in discharging the aeriform mixture containing the vapors to be recovered from the reservoir containing the same, passing the mixture into a column containing a suitable absorbent, feeding additional absorbent to said column as the aeriform mixture passes through the same, regulating the absorbent feed automatically and proportionally to the quantity of vapor passing through the column and distilling the vapor from the absorbent.

1,452,779. WATER-JET HEAD ATTACHMENT FOR BUTTON-BLANK-CUTTING MACHINES. NICHOLAS BARRY, Muscatine, Iowa, assignor to Barry Company, Muscatine, Iowa, a Corporation of Iowa. Filed Jan. 2, 1920. Serial No. 348,851. 8 Claims. (Cl. 79—16.)



1. A water jet attachment for a button blank cutting machine and the like; comprising a hollow T, and a plurality of jet tubes respectively connected with the ends and the side member of the T by ball and socket joints; substantially as described.

1,452,780. MICROMETER CALIPER. LAWRENCE O. BEARD, Lancaster, Pa. Filed June 24, 1922. Serial No. 570,664. 3 Claims. (Cl. 33—178.)



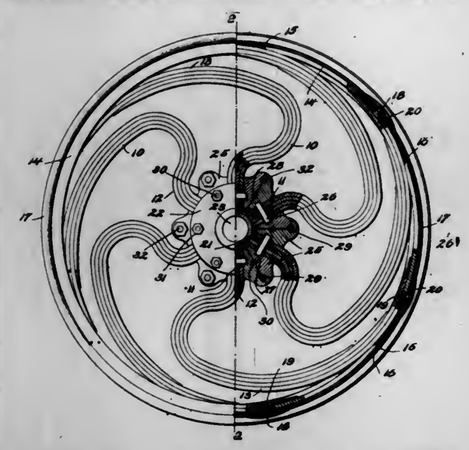
1. A micrometer-caliper comprising an inverted U-shaped plate, a calipering block adapted to fit movably within said plate, a sleeve mounted on said block and extending slidably through said plate, means for preventing the withdrawal of said block and said sleeve from said plate, means for cushioning the movement of said block towards said plate, and a measuring spindle rotatably mounted for relative longitudinal movement in said sleeve, said sleeve and spindle having cooperating graduations thereon.

1,452,781. WELDING ROD. FREDERICK M. BECKET, Niagara Falls, N. Y., assignor to Union Carbide & Research Laboratories, Inc., a Corporation of New York. Filed June 28, 1921. Serial No. 481,078. 7 Claims. (Cl. 219—12.)

1. A welding rod or the like consisting of an iron alloy containing carbon and substantial amounts of manganese and silicon.

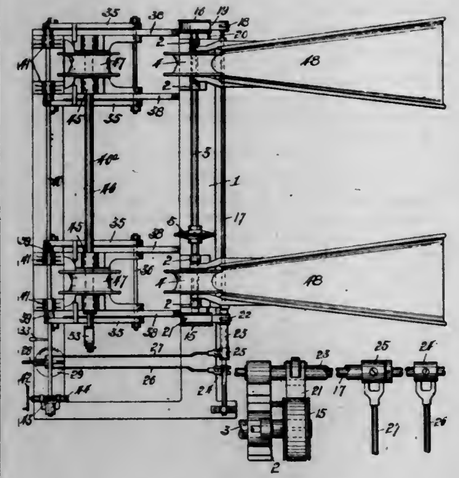
1,452,782. SPRING WHEEL. WILLIAM JAKOB BEISEL, Port Richmond, N. Y. Filed June 28, 1921. Serial No. 481,047. 11 Claims. (Cl. 152—50.)

1. A vehicle wheel embodying a series of similar laminated leaf spring spokes curved transversely of radial planes through the axis of the wheel, the outer layers or leaves of adjacent spokes overlapping around the circumference forming a continuous circular rim surface, a



rim fitting said rim surface, secured to the outer leaf of each spring, and an outer tire receiving rim secured to said first mentioned rim.

1,452,783. AUTOMOBILE TESTING APPARATUS. JOSEPH T. BISHOP, Toledo, Ohio. Filed Dec. 27, 1920. Serial No. 433,249. 16 Claims. (Cl. 73—51.)

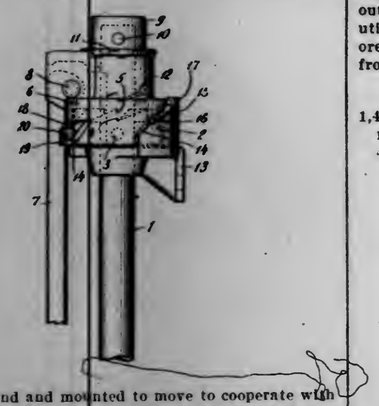


1. An apparatus of the class described having relatively rotatable members for engaging the different brake wheels of an automobile, and means actuated by a relative movement of the members to indicate any relative movement thereof.

1,452,784. RATCHET-BRAKE MECHANISM. ROBERT H. BLACKALL, Pittsburgh, Pa., assignor to Ratchet Brake Company, a Corporation of New York. Filed May 5, 1922. Serial No. 558,606. 4 Claims. (Cl. 74—116.)

1. In a mechanism of the class described, the combination with the brake-staff and the operating lever, of

oppositely arranged ratchet-toothed clutch sections fixed to the staff and spaced apart from each other, a movable section between said fixed sections having a set of ratchet

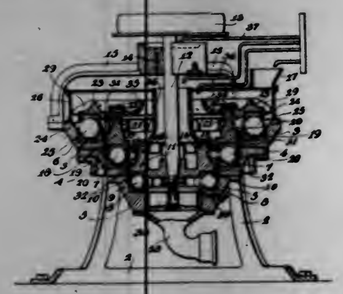


teeth on each end and mounted to move to cooperate with the sections in alternation, thereby to move the staff in either direction, and means for oscillating the movable section.

1,452,785. PROCESS FOR THE PRODUCTION OF SENSITIVE FILMS FOR PHOTOGRAPHIC PURPOSES. JAQUES EDWIN BRANDENBERGER, Paris, France, assignor to La Societe la Cellophane, Paris, France. Filed Mar. 7, 1921. Serial No. 450,398. 5 Claims. (Cl. 95—7.)

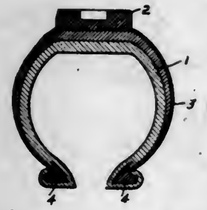
1. The process for producing a sensitive film for photographic purposes, which consists in treating the film successively with two liquids, the first liquid consisting of an aqueous solution of one of the substances which is intended to enter into reaction with a substance contained in the second liquid, said second liquid containing a percentage of the said substance at least equal to the chemically equivalent percentage of the substance present in the first liquid.

1,452,786. BALL PULVERIZING MILL. FRANK A. BREWER and GEORGE W. BRANSTON, Vancouver, British Columbia, Canada; said Brewer assignor of his entire right to Frank A. Brewer, jr., Vancouver, British Columbia, Canada. Filed Aug. 11, 1921. Serial No. 491,414. 10 Claims. (Cl. 83—45.)



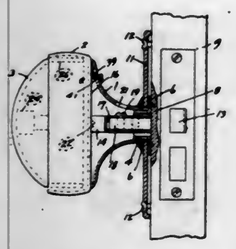
1. A ball pulverizer, comprising the combination with a suitable base, of a series of concentrically grooved rings supported in stepped relation thereon, balls in the grooves of the several rings, a driving head grooved to rest on the balls in the innermost ring, a shaft secured to that driving head by which it is rotated, a grooved driving ring separately mounted on each other ring of balls, each of which driving rings except the bottom one is in driving connection with the one next smaller in diameter but is independent of direct attachment to the driving shaft, means for delivering the rock to be crushed outside the outermost ring of balls, means for distributing it around the ring, and means for delivering the ore as crushed in one ring to the next inner ring and from the innermost ring to the delivery outlet.

1,452,787. PNEUMATIC TIRE. WILLIAM R. BUSENBARK, Akron, Ohio. Filed Nov. 13, 1920. Serial No. 423,813. 4 Claims. (Cl. 152—13.)



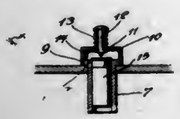
1. A pneumatic tire containing rubber and having an integral tread member, and a thin flexible sheet united to the tire so as to form a part thereof, said sheet extending underneath said tread member and inwardly over the sides of the tire toward the inner diameter.

1,452,788. COMBINATION DOORKNOB AND RINGING DEVICE. EARL B. CALDERWOOD, Oakland, Calif. Filed June 12, 1922. Serial No. 567,799. 4 Claims. (Cl. 116—10.)



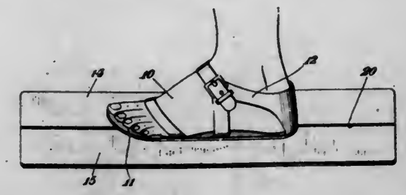
3. A device of the character described, comprising a shaft centrally supported therein having a bell, a bell ringing mechanism and disc with a peripheral notch mounted thereon, spring means for operating the ringing mechanism, a locking member normally engaging the notch so as to render the ringing device inactive having a curved flange thereon and a stationary element engaging the flange when the knob is turned so as to lift the locking member out of its engagement with the disc and to allow the ringing device to become active.

1,452,789. PORTABLE AIR-STORAGE TANK. CHARLES C. CAREK, Touhy, Nebr. Filed Mar. 20, 1922. Serial No. 545,135. 4 Claims. (Cl. 220—1.)



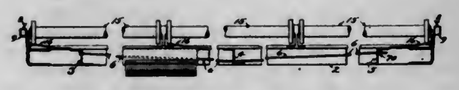
1. A portable air supply tank comprising a charge-holding barrel extending through one wall thereof, a locking cap detachably secured to said barrel, a firing pin slidably carried by said locking cap, and an outlet from said tank adapted to be connected to a tire or tube.

1,452,790. SWIMMING DEVICE. WILHELM F. CLAUPIN, Attleboro, Mass. Filed Mar. 17, 1922. Serial No. 544,435. 1 Claim. (Cl. 9—21.)



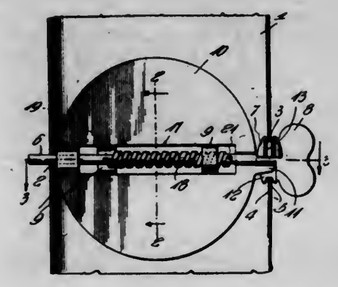
A swimming device, comprising a pair of articulated plates hinged to sandal members, said plates being adapted to open and close according to the direction of motion, and strips of buoyant material embedded longitudinally in each plate.

1,452,791. TUBE FRAME FOR AXMINSTER LOOMS. CHARLES H. COLLINS, West Albany, N. Y. Filed Jan. 12, 1922, Serial No. 528,637. Renewed Dec. 16, 1922. 7 Claims. (Cl. 139—66.)



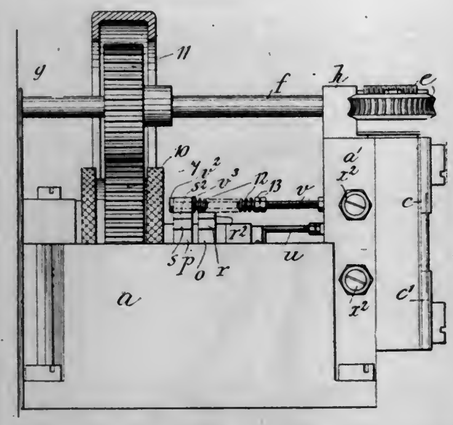
5. A tube-bar for a tube-frame for Axminster looms, comprising a hollow tube with a truss rod attached inside thereof the ends at a point near the top, and the center at a point near the bottom of said tube, so that it will strengthen said tube against vertical downward pressure applied between the ends thereof the ends being supported.

1,452,792. AUTOMATIC DAMPER. THOMAS S. COOPER, Jr., Charleston, W. Va., assignor to Kooper Damper Co., Philadelphia, Pa. Filed Sept. 9, 1921. Serial No. 499,364. 7 Claims. (Cl. 236—93.)



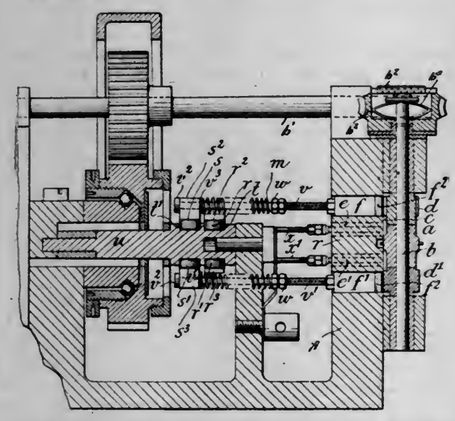
7. The combination with a shaft having a handle, and a damper on said shaft; of a head on one end of said shaft adapted to be rotatably received in an opening in the pipe in which the damper is used, said head having a circumferential groove to receive the metal at the edge of the opening and said head being provided with cam means for frictionally engaging metal of the pipe about the opening and yieldably holding the shaft against rotation.

1,452,793. TELEGRAPHIC RECEIVING APPARATUS. FREDERICK GEORGE CREED, Croydon, England. Filed Mar. 15, 1920. Serial No. 366,006. 18 Claims. (Cl. 164—89.)



1. In perforating apparatus of the type herein referred to, the combination with the punches for perforating a tape, of actuating means connected to said punches and adapted positively to move them into both their operative and inoperative positions so that they are constrained to move in the required manner and at the required times, and mechanically operated means adapted to operate said actuating means in an intermittent and positive manner in accordance with the perforations to be made in a tape by said punches.

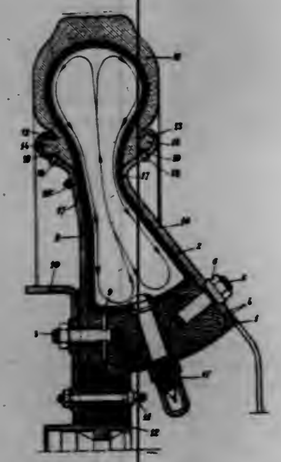
1,452,794. TELEGRAPHIC RECEIVING APPARATUS. FREDERICK GEORGE CREED, Croydon, England. Filed Mar. 15, 1920. Serial No. 366,007. 7 Claims. (Cl. 164—89.)



1. In tape perforating apparatus, the combination with a tape feed wheel, a punch, means for reciprocating said punch, a toothed correcting wheel adapted to adjust said feed wheel in a rotary direction and a correcting device adapted to co-act with said correcting wheel before said punch completes its operative stroke, of mechanically operated driving mechanism and actuating means positively moved by said driving mechanism and adapted to cause said correcting device to make its operative stroke,

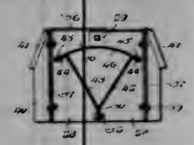
said actuating means being adapted to yield in the event of said correcting device fouling the top of a tooth of the correcting wheel when making its operative stroke, substantially as described for the purpose set forth.

1,452,795. WHEEL WITH IMPROVED PNEUMATIC TIRE FOR MOTOR VEHICLES. HENRY DE HOOYDONCK, Biarritz, France. Filed Oct. 15, 1921. Serial No. 507,819. 4 Claims. (Cl. 152—13.)



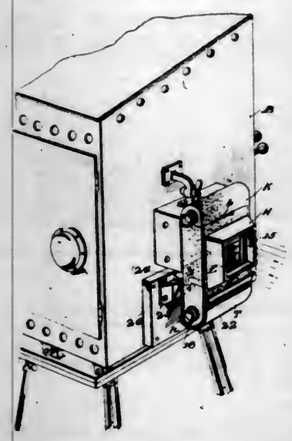
2. An improved combination wheel and pneumatic tire including a hollow hub, side cheeks removably connected thereto, a casing supported by the cheek at the peripheral edges thereof, an air tube occupying the entire space between the hub, casing and cheeks, an inflation valve mounted through the inner periphery of the hub and communicating with the tube and the outer portions of the cheeks being extended laterally from the plane of the thread of the casing, substantially as and for the purposes set forth.

1,452,796. CULVERT. THOMAS DE LA MARE, Tooele, Utah. Filed Mar. 11, 1921. Serial No. 451,428. 1 Claim. (Cl. 61—16.)



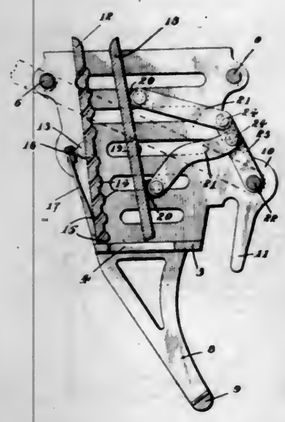
In a device of the class described, an end wall comprising plates having notches provided at their upper outer corners with extensions, the notches cooperating to define an opening, and a body including a trough-like bottom comprising side walls provided at their upper edges with outstanding flanges having overhanging lips, the body including a top, the longitudinal edges of which are received between the flanges and the lips of the bottom, the bottom being received in the opening, and the flanges, the lips and the longitudinal edges of the top being received in the extensions, the plates being overlapped above the top to reinforce the end wall above the opening, the plates being provided adjacent to their lower edges with outstanding lugs engaging the bottom adjacent to the longitudinal center thereof, a securing element uniting the overlapped parts of the plates, and a securing element uniting the lugs.

1,452,797. STEREOPTICON DEVICE. WILLIAM H. C. DUDLEY, Americus, Ga. Filed July 26, 1921. Serial No. 487,735. 2 Claims. (Cl. 88—28.)



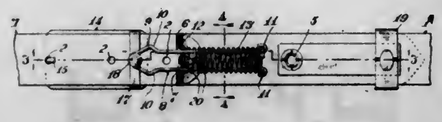
1. A stereopticon device comprising a casing having light openings formed therein, a flexible transparent film supported within the casing for movement across the light openings, and a bracket adapted to support the casing so that the light openings register with the lens opening of the lamp housing, said bracket comprising a clip adapted to receive one end of the casing, and means for adjustably supporting the clip.

1,452,798. MOP WRINGER. FRED A. EATON, South Stukely, Quebec, Canada. Filed Apr. 10, 1922. Serial No. 551,341. 2 Claims. (Cl. 15—261.)



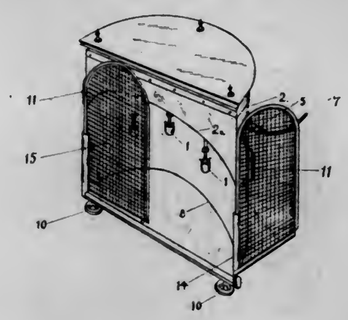
1. A mop wringer comprising a frame including a base, a pair of sides and a front, a shaft journalled in said frame, a back slidably supported with relation to the sides, a pair of links secured to the shaft, a link secured to the upper portion of the back and pivoted to one of the first named links, and a link secured to the lower part of the back and pivoted to the free end of the other of said first named links.

1,452,799. BELT BUCKLE. THEODORE C. ERFENBECK, Chicago, Ill. Filed Sept. 14, 1921. Serial No. 500,708. 3 Claims. (Cl. 267—72.)



1. A tension device for belt buckles comprising a belt having one end folded back upon itself and provided with an opening, a U-shaped plate having spaced apertures therein registering with the opening in the belt and lying within the folded portions thereof, a wire loop having an enlarged head and hooked free ends constructed to project through the apertures of the plate, the said enlarged head contacting with the plate, a flat coiled spring encircling both free ends of the loop and disposed between the plate and the hooked ends, and means for securing the folded portion of the belt.

1,452,800. HEATING AND LIGHTING RADIATOR. HENRY GINGER, Waltham Cross, England. Filed Aug. 21, 1922. Serial No. 583,404. 4 Claims. (Cl. 126—92.)



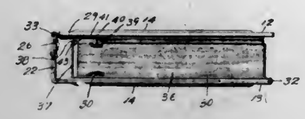
1. A combined portable heating and lighting radiator comprising a casing, a source of heat and light suspended therewithin, an adjustably mounted reflector lodged at the bottom of the casing, and air distributing plates above the casing.

1,452,801. MANUFACTURE OF CAPILLARY CONTAINERS AND DISPENSERS. WALTER GOODCHILD, Oakland, N. J., assignor to "Nips" Incorporated, Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 25, 1921. Serial No. 447,856. 6 Claims. (Cl. 215—1.)



1. As a new article of manufacture, a container and dispenser for perfumes, consisting of a tubular receptacle with capillary ends hermetically sealed, the connecting portion between the latter being of such size that the contents will not spontaneously flow out of the tube when it is held in a substantially vertical position with its said ends open in normal condition.

1,452,802. METAL BOOK COVER. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Mar. 12, 1921. Serial No. 451,930. 3 Claims. (Cl. 129—1.)



2. A device of the class described comprising a cover, a back integrally formed therewith, a second cover hingedly secured to said back, a spring clamp secured to the back for securing a tissue book thereto, a plate hingedly secured to the free end of the first mentioned cover, a clamp hingedly connected to said plate for securing a sales ticket book thereto, and projections formed integral with said clamp, said projections extending beyond the side edges of the cover.

1,452,803. RACKET FOR TENNIS AND LIKE GAMES. ARTHUR HARRIS, Romford, England, assignor of one-half to Percy Newland Eve, Upminster, England. Filed Sept. 2, 1921. Serial No. 497,948. 4 Claims. (Cl. 46—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

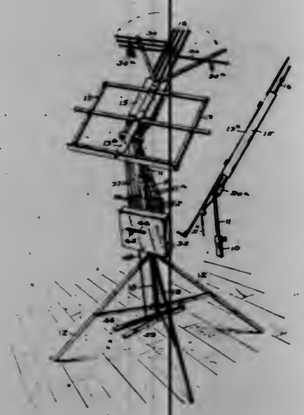


1. A racket having a frame comprising a hollow metallic member bent in the required form and the ends of which form handle portions, said member presenting a channel on its inner side, a handle fitted between said handle portions, and a wedge at the inner end of the handle and fitted in said inner side channel of said handle portions of the said member.

1,452,804. DEVICE FOR TURNING MUSIC. FRANK E. HARTUP, Indianapolis, Ind., assignor of one-half to William M. Kunkel, Indianapolis, Ind. Filed Mar. 4, 1922. Serial No. 541,018. 4 Claims. (Cl. 84—5.5.)

1. A device for turning leaves of music comprising a plurality of oscillating shafts, arms on the shafts to provide means for attaching the leaves containing the musical composition, a pair of longitudinally movable spirally slotted sleeves arranged on each shaft, pins

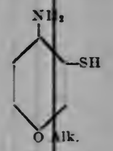
carried by each shaft for engaging the slots in its associated sleeves, and an actuator means progressively actu-



ating one sleeve on each shaft for independently oscillating the shafts in one direction.

1,452,805. DYESTUFFS CONTAINING SULPHUR AND DYEING VEGETABLE FIBERS WITHOUT A MORDANT AND PROCESS OF MAKING SAME. RICHARD HERZ, Frankfort-on-the-Main, and HANS BALHORN, Hochst-on-the-Main, Germany, assignors to Leopold Cassella & Co. Gesellschaft mit beschränkter Haftung, a Corporation of Germany. Filed July 25, 1922. Serial No. 577,427. 4 Claims. (Cl. 260—22.)

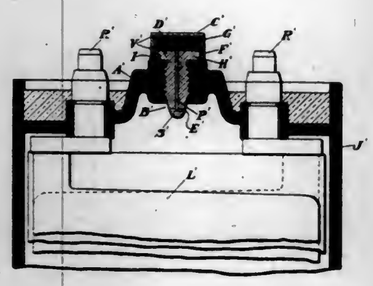
4. As a new article of manufacture, the new fast cotton dyestuff derived from the product of condensation of chloranil with p.alkyloxy-o.aminothiophenol of the following formula.



by subjecting the same to the action of a sulfurizing agent, containing in its molecule very probably the residue of the benzolquinone nucleus, a thiazine nucleus and besides the sulfur of the thiazine ring chemically bound sulphur, being in a dry state a reddish-brown powder, soluble in concentrated sulfuric acid with a blue color and dyeing cotton in an alkaline sulfide bath or in the vat claret red shades which are distinguished by their fastness to washing, chlorine and light.

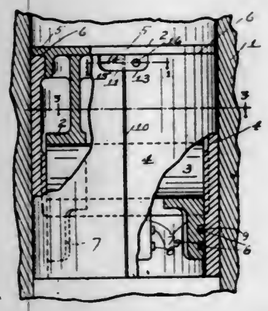
1,452,806. STORAGE-BATTERY VENT. NEVIL MONROE HOPKINS, New York, N. Y., assignor to National Carbon Co. Inc., a Corporation of New York. Filed May 31, 1921. Serial No. 473,723. 2 Claims. (Cl. 204—29.)

1. A storage battery vent comprising a base having threads whereby the same may be attached to a cell cover and also having a gas escape passage the entrance of which is not directly in the axis of the main portion of such passage, a vented cap secured to the end of said base opposite such entrance, and chemically inert loose



material in said cap between the vent thereof and the outlet end of said gas escape passage.

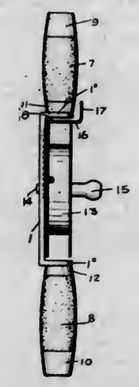
1,452,807. PISTON. CHARLES E. JOHNSON, Muskegon, Mich., assignor to The Piston Ring Company, Muskegon, Mich., a Corporation of Michigan. Filed Sept. 1, 1922. Serial No. 585,587. 1 Claim. (Cl. 74—108.)



In a piston; a body member having a radially-extending flange; a sleeve member surrounding the body member and having a longitudinally-disposed slit, and a recess extending across the slit and inwardly from the sleeve member's outer side to the bottom wall of the recess and from an end of the sleeve member to the side wall of the recess; a dam plate in the recess extending across the slit and tightly fitting the bottom wall and the side wall of the recess, and being slidable in the recess on at least one side of the slit in a direction transverse to the slit; means for holding the body member's flange in tightly fitting contact with said end of the sleeve member and with the outer edge of the dam plate.

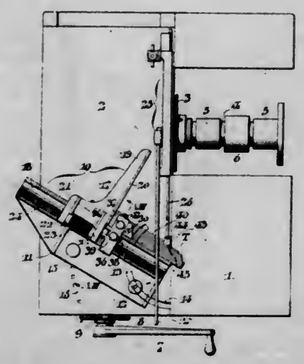
1,452,808. FISHING-ROD HANDLE. FREDERICK CHARLES LEE, Toronto, Ontario, Canada. Filed Nov. 9, 1922. Serial No. 599,922. 1 Claim. (Cl. 43—20.)

A fishing rod handle comprising a broad U-shaped central member having short arms, a tubular portion carried by one of said arms and a stud by the other of said arms, said portions extending laterally outward from each arm in central alignment one with the other, handle grips secured upon each of the said portions, and a reel



mounted within the bracket between the handle grips and arms so as to be in central alignment with the handle grips.

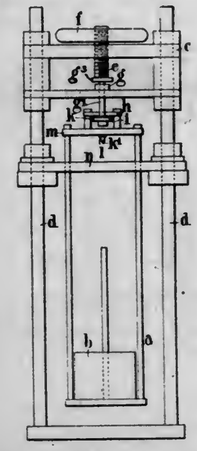
1,452,809. WORKHOLDING AND POSITIONING DEVICE FOR RULE AND BORDER TYPE OR SLUG-CUTTING MACHINES. JOHN LOGUE, Philadelphia, Pa. Filed Aug. 5, 1921. Serial No. 489,960. 8 Claims. (Cl. 29—69.)



1. The combination with a type cutting machine having a cutting tool, a work supporting table movable with respect to said tool, and a gauge member pivotally mounted to said table, of a work holding and positioning device for use in mitering affording abutting surfaces for the ends of the rule or border slugs disposed at substantially right angles to the latter and adapted to position their abutting ends at the angle to which the miter is to be cut so that a number of the rule or border slugs may be cut to uniform length while being mitered.

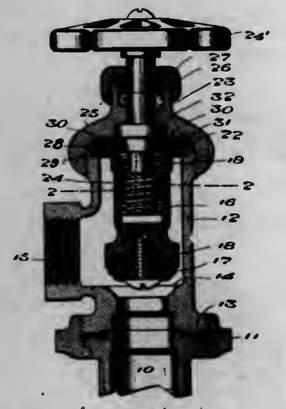
1,452,810. APPARATUS FOR TESTING THE HARDNESS OF METALS AND OTHER MATERIALS. HAROLD MOORE and RICHARD MATHER, Woolwich, England. Filed Sept. 29, 1920. Serial No. 413,655. 5 Claims. (Cl. 265—12.)

1. Apparatus for testing the hardness of materials comprising a support for the specimen to be tested, a hardened steel ball arranged above said support, a stirrup carrying said hardened steel ball and adapted to



carry a known weight, and means for lowering said stirrup so that said ball is pressed into contact with said specimen under said known load.

1,452,811. COMPRESSION COCK. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Apr. 12, 1920. Serial No. 373,209. 2 Claims. (Cl. 251—48.)



1. In a cock or faucet, the combination of a body portion having an inlet and an outlet, a valve-seat, a vertically movable valve, a valve-operating stem having a collar thereon, a body-cap having a recess to receive said collar, a collar-supporting washer having a depending nipple, and a packing between said nippled washer and said valve-body.

1,452,812. LOCK. EUGENE O. MURMANN, Glendale, Calif. Filed May 2, 1922. Serial No. 557,946. 5 Claims. (Cl. 70—46.)

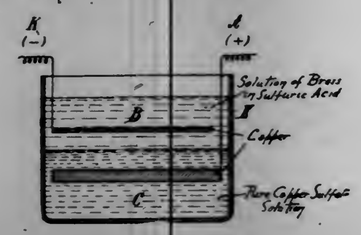
1. In a lock, the combination of a casing, a movable plate-tumbler having an opening comprising a circle intersected by a rectangle, a plug rotatable when centered

in the circular part of said opening and non-rotatable when disposed in the rectangular part and eccentric to the circular part of said opening, key operated means



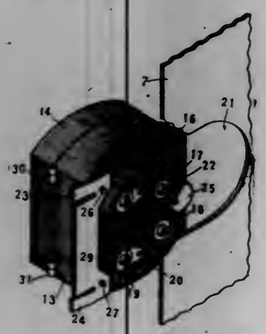
for moving said tumbler to align the circular part of said opening to permit rotation of said plug, and means tending to move said tumbler out of alignment.

1,452,813. METHOD OF DECOMPOSING MIXED METAL-SALT SOLUTIONS. HARRY PAULING, Berlin-Grunewald, Germany. Filed Aug. 3, 1921. Serial No. 489,635. 6 Claims. (Cl. 204—1.)



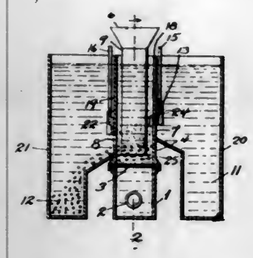
1. The herein-described method, comprising the step of passing an electric current through a mixed metal salt solution in a vessel provided with electrodes of the more conductive metal contained in the solution, to electrolytically decompose said solution.

1,452,814. INCLOSED-SWITCH CONSTRUCTION. CLARENCE D. PLATT, Bridgeport, Conn. Filed June 27, 1922. Serial No. 571,289. 10 Claims. (Cl. 247—2.)



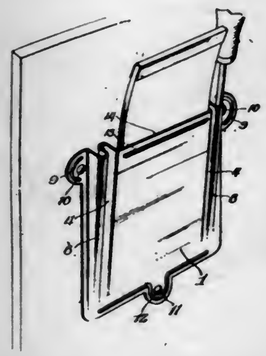
1. In a fuse receptacle, an insulating body, appurtenant fuse terminals mounted on the body, a cover hinged to the body and having a shoulder, a projecting flange on the body for engagement with the edge of an opening in a switch-box, a catch on said body for engagement with said shoulder on the cover, and means for connecting said catch and said flange and securing them on opposite surfaces of the said body.

1,452,815. PROCESS OF AND APPARATUS FOR GRADING SOLID MATERIALS. CHARLES J. REED, Glenside, Pa. Filed Apr. 25, 1919. Serial No. 292,718. 13 Claims. (Cl. 83—82.)



1. The process of grading solid particles, which consists in holding a mixture of the solid particles in a suspension zone of a suspension medium in a condition of stratified suspension and withdrawing particles from different strata out of the suspension zone into separate zones of relative quiet in the suspension medium.

1,452,816. HOLDING DEVICE. GEORGE H. REIMER, Fulton, Ill., assignor to Patent Novelty Company, Fulton, Ill., a Corporation of Illinois. Filed Feb. 23, 1922. Serial No. 538,491. 4 Claims. (Cl. 248—20.)



1. In a device for holding an ice-pick and a coupon book or other articles, the combination of an outwardly inclined front wall of sheet metal, with downwardly tapered side walls forming with said front wall a relatively wide pocket, and other downwardly tapered side walls connected by narrow outer front walls to form relatively narrow pockets forming hollow rounded outer stiffening ribs at each side of said wide pocket, with outwardly open narrow spaces forming narrow vertical open grooves on the outer face of the device between the middle pocket and the two narrow pockets, marginal attaching portions for the upper corners of the device, adapted to engage a wall or other flat surface, when the device is attached in position for use, and inner narrow walls unattached to said surface and forming hollow rounded inner stiffening ribs between said pockets to merely engage said flat surface, so that outward pressure on the front wall of said wide pocket is resisted entirely by said outer attached corner portions, and whereby said pockets are all closed at the back of said device by said flat surface and are each separately formed and open only at the upper edge of said device.

1,452,817. LINK. VALENTIN BETTERATH, Dresden-Cossebaude, Germany, assignor to the Firm: Deutsche Werke Aktiengesellschaft, Berlin, Germany. Filed June 30, 1920. Serial No. 393,219. 5 Claims. (Cl. 64—30.)



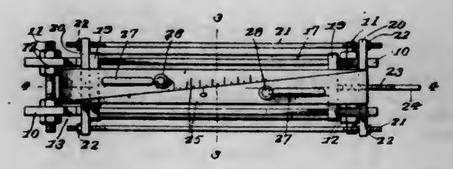
5. A ball-and-socket joint comprising a member provided with parallel flanges and a spherical surface located between said flanges and integral therewith, and another member provided with jaws having opposing spherically curved socket surfaces adapted to engage said ball, said members being provided with recesses adjacent to said spherical surfaces to provide clearance for said flanges and jaws when said members are angularly inclined to each other.

1,452,818. BELT BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 15, 1922. Serial No. 581,996. 5 Claims. (Cl. 24—194.)



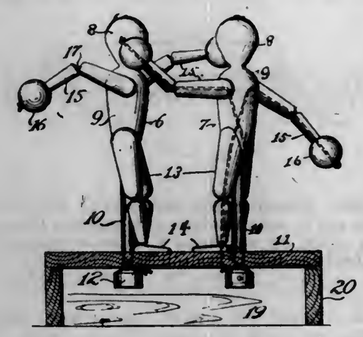
1. A belt buckle comprising a face plate, transversely slotted adjacent to its respective ends for threading the free end of a belt adjustably therethrough, a post projecting inwardly from the inner face of said face plate intermediate said slots, a clamp plate detachably engageable with said post and longitudinally slidable relative to said face plate and its post, mutually cooperative means on said post and said clamp plate for retaining the latter in operative attached relation to said face-plate, and means for attaching the fixed end of a belt to said clamp plate.

1,452,819. BABBITTING AND BRASSING MACHINE. WILLIAM GILES THOMAS, Victoria, Va. Filed Mar. 8, 1922. Serial No. 542,187. 2 Claims. (Cl. 22—123.)



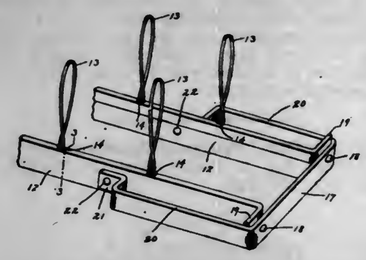
1. A machine for molding Babbitt linings in channel members cross-head gibs comprising a frame for supporting a channel member, the frame having notches for reception of the battered ends of a channel member, transverse blocks disposed on the frame and against the ends of the channel member to prevent escape of the molten Babbitt-metal, a frame including a pair of transverse end bars supported on the frame with one of the bars against one of the blocks, tie members adjustably connecting corresponding ends of the bars, a clamping screw engaged through the other of the transverse bars and bearing against the other transverse block to maintain the latter in position against the end of the gib, and a core comprising a pair of longitudinally adjustable and graduated wedge blocks disposed in spaced relation to the sides of the channel member and supported on the transverse blocks in spaced relation to the bottom wall of the channel member.

1,452,820. FIGURE TOY. DANIEL F. WHITCOMB and KARL R. COOLIDGE, Los Angeles, Calif. Filed Nov. 30, 1921. Serial No. 518,754. 2 Claims. (Cl. 46—40.)



1. A figure toy comprising a platform, a body having a head and four jointed members, two being upper members and two being lower members, said body terminating in a pedestal rotatively mounted in the platform; cords connected to the platform and each cord passing through the lower jointed members thence through the body, thence through the upper jointed members on the opposite side of the body and secured to the outer ends of said upper members.

1,452,821. ENAMELING RACK. WILL DEAN ALLEN, Farmington, N. H. Filed Feb. 25, 1922. Serial No. 539,125. 3 Claims. (Cl. 91—60.)



1. An enameling rack comprising bent metal strips, constituting widened rack-ends, adapted to bear on a horizontal support; and article-holding means including a thin-edged flat-sided bar fixed to and extending between said strips; and holders fixed to said bar and projecting from an edge thereof, the arrangement being such that the said strips are adapted to maintain the bar with its flat sides vertical and the said holders projecting upward from the bar, in position to hold articles overhanging the flat sides, so that enamel may drip from the major portions of the articles without contacting with the bar, said strips being formed to constitute spacing members, adapted to abut against spacing members on other racks, to prevent contact between articles stored on contiguous racks.

1,452,822. ATTACHMENT FOR TYPEWRITING MACHINES. JOHN H. ANANSON, Stirling, N. J. Filed Jan. 21, 1922. Serial No. 530,766. 3 Claims. (Cl. 197—153.)

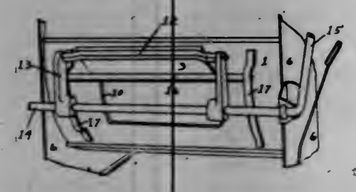
1. In a typewriting machine having a frame, a paper feed carriage and feed roll thereon, ribbon spools supported on said frame and having an ink ribbon thereon, a second set of ribbon spools on said frame operatively

connected to said first named spools and having an auxiliary ink ribbon thereon, means for supporting said auxiliary ribbon in the rear of said first ribbon, and means on



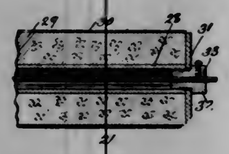
said frame, disposed beyond the limits of travel of said carriage and in alinement with said auxiliary ribbon supporting means for supporting a length of auxiliary ribbon beyond the ends of the carriage.

1,452,823. DOOR FOR MIXING MACHINES. HERMAN BESSER and JESSE H. BESSER, Alpena, Mich. Filed May 23, 1921. Serial No. 471,795. 2 Claims. (Cl. 220—32.)



1. In a mixing machine, the combination of a stationary cylindrical drum, a discharge opening at one side of said drum, a removable door for said opening, guides engaging the lower part of said door, pivoted rocker arms connected to the upper end of said door, and a rockshaft supporting said arms.

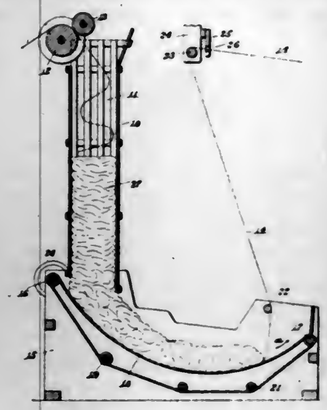
1,452,824. ROLLER. WILLIAM G. BOSWORTH, New York, N. Y. Filed Dec. 2, 1919. Serial No. 341,872. 7 Claims. (Cl. 197—147.)



1. A roller comprising a baked, compressed-cork, cylindrical member having an outer cover of hard, finely divided material.

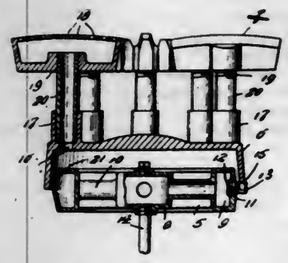
1,452,825. CLOTH-PILING MACHINE. JOSEPH F. BRINDLEY, East Dedham, Mass., assignor to Hodges Finishing Company, East Dedham, Mass., a Corporation of Massachusetts. Filed Feb. 21, 1922. Serial No. 538,395. 5 Claims. (Cl. 26—2.)

1. A long frame work having vertical side walls and provided with parallel rollers at opposite ends, one of which is higher than the other; an endless one-piece conveyor belt on these rollers between which the upper portion is adapted to sag; intermediate rollers above the lower portion of the belt and free from contact with the upper portion of said belt; and a hopper above said conveyor with its lower end between said side walls and near the highest roller adapted to deliver cloth to a steeply inclined part of the conveyor, and thereby, by the weight of the cloth, cause the portion of the belt beneath said



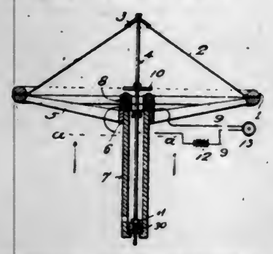
hopper to move downwardly with the cloth thereon for a considerable distance beyond said hopper and toward the delivery end of the frame work.

1,452,826. GAS AND VAPOR BURNER. EUGENE ORA DANIELS, Toledo, Ohio. Filed Feb. 19, 1923. Serial No. 619,865. 4 Claims. (Cl. 158—104.)



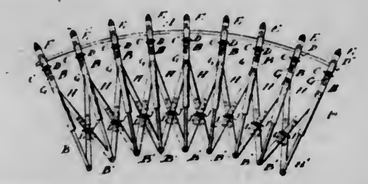
1. In a burner of the class described, a manifold having a gas inlet pipe communicating therewith, a dome supported upon the said manifold in spaced relation thereto, burner heads carried by the dome and removable therefrom, the said manifold being formed with out let openings and means upon said maniofld for supporting said dome.

1,452,827. TELEPHONE DEVICE. LEE DE FOREST, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,807. 4 Claims. (Cl. 179—114.)



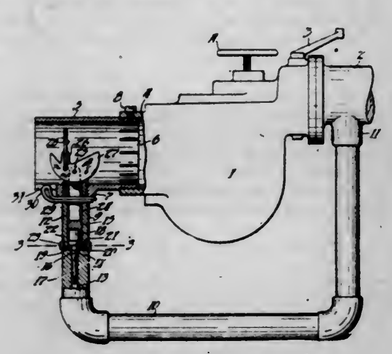
4. The combination with a substantially cone-shaped diaphragm freely exposed on opposite sides to the atmosphere, of an axially extending rod operatively associated at one end with the approximate apex of said diaphragm for maintaining said diaphragm taut, a support for said rod, means for mounting said rod in said support to permit free longitudinal vibratory movement of said rod relative to said support, an armature rigidly carried by said rod for vibratory movement therewith and positioned at a point intermediate its ends, and a magnet for said armature located in a fixed position relative to said support substantially as and for the purpose set forth.

1,452,828. ADJUSTABLE SPACING TOOL. FRANK W. DEITZ, Cleveland, Ohio. Filed May 2, 1921. Serial No. 466,120. 3 Claims. (Cl. 33—192.)



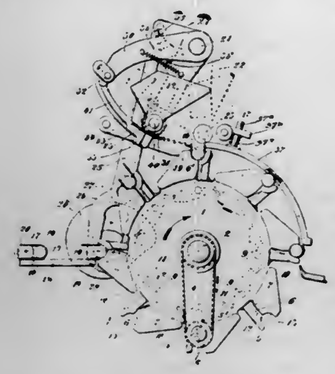
1. In a device for spacing and ruling parallel lines, the combination with an elongated scale member, of spaced bars slidably movable thereon, crossed links pivoted together in pairs, and adjustably connecting said bars and adapted to retain the same in parallel relation to each other, and drafting means adjustably secured to said bars adjacent to said scale member.

1,452,829. AIR AUXILIARY SUPPLY MEANS FOR INTERNAL-COMBUSTION ENGINES. THOMAS A. EDISON, Jr., Orange, N. J. Filed Mar. 4, 1919. Serial No. 280,526. 2 Claims. (Cl. 261—46.)



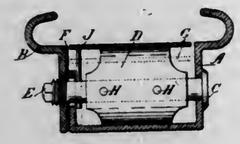
2. The combination of a carburetor of an internal combustion engine, the fuel supply conduit leading therefrom and provided with an auxiliary air inlet having a valve seat, and a device comprising a valve member movable with respect to said seat for controlling the admission of air through said auxiliary air inlet and a member mounted in the main air inlet of the carburetor and movable therein to control the effective area thereof, either of said members being adapted by movement thereof to effect movement of the other member, and said device being arranged to be maintained in balanced position by the effect of the air entering the carbureter on the member in said main air inlet and by the effect of the vacuum in the fuel supply conduit on said valve, substantially as described.

1,452,830. LABEL-AFFIXING APPARATUS. MILFORD B. FERGUSON and EDWARD HAAS, Brooklyn, N. Y. Filed Mar. 7, 1919. Serial No. 281,146. 23 Claims. (Cl. 216—9.)



1. In a wrapping machine or the like, in combination, a work carrier having a plurality of supports, each adapted to hold an article to be wrapped and a wrapper therefor, means for causing said carrier to move intermittently and to carry therewith an article and its wrapper, means operative at each stoppage of said carrier to tuck a wrapper about its associated article and means operative at said stoppage for applying paste to said wrapper.

1,452,831. RIM FOR WHEELS OF VEHICLES. LÉON JEAN BAPTISTE FOURNIAUD, Marseille, France. Filed Aug. 24, 1921. Serial No. 494,780. 3 Claims. (Cl. 152—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

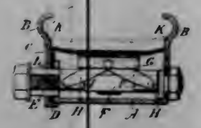


1. A rim for tired wheels of vehicles, comprising a ring with means for holding one edge of the tire, a second ring with means for holding the other edge of the tire, a plurality of segments arranged with their ends overlapping to form a ring of variable diameter substantially concentric with the tire holding rings, a plurality of springs located in the annular space between the variable diameter ring and the tire holding rings, means for expanding and contracting the variable diameter ring, fastenings extending through the said anular space for uniting the tire holding rings, and means for preventing relative rotation between the variable diameter ring and the tire holding rings.

1,452,832. RIM FOR WHEELS OF VEHICLES. LÉON JEAN BAPTISTE FOURNIAUD, Marseille, France. Filed Aug. 24, 1921. Serial No. 494,781. 3 Claims. (Cl. 152—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

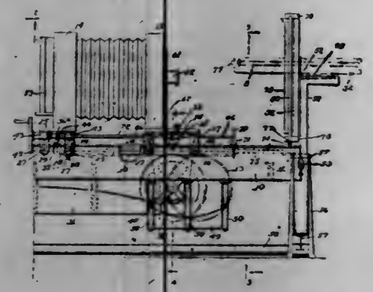
1. A rim for tired wheels of vehicles comprising, a ring with means for holding one edge of a tire, a second ring with means for holding the other edge of the tire, a plurality of segments arranged with their ends overlapping to form a ring of variable diameter concentric

to the tire holding rings, means for expanding and contracting the variable diameter ring, a plurality of bolts extending through the annular space between the ring of variable diameter and the tire holding rings, nuts



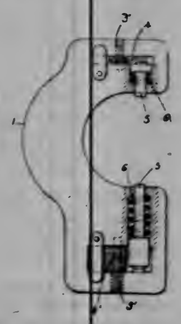
for said bolts, the bolts and nuts being fastenings for uniting the two tire holding rings, and connections between the ring expanding means and the bolts and nuts whereby screwing and unscrewing of the latter causes expansion and contraction respectively of said ring.

1,452,833. APPARATUS FOR AUTOMATICALLY FOCUSING MULTIPLE-EXPOSURE CAMERAS. WENZEL FRITSCHE, New York, N. Y. Filed Mar. 11, 1920. Serial No. 364,909. 5 Claims. (Cl. 88—24.)



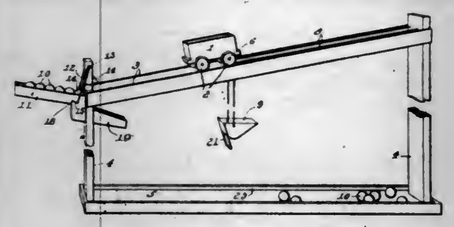
1. An apparatus as characterized, comprising an elongated supporting frame; a plurality of camera supporting trucks movably mounted on said frame; a rocking member pivotally mounted on one of said trucks and operatively connected with the other of said trucks; an elongated cam mounted on said supporting frame for actuating said rocking member in correspondence with the movement of the truck supporting said rocking member lengthwise of said supporting frame.

1,452,834. MEASURING INSTRUMENT. ERNEST FUCHS, Paris, France, assignor to Louis Renault, Billancourt, Department of Seine, France. Filed Apr. 25, 1918. Serial No. 230,821. 3 Claims. (Cl. 33—143.)



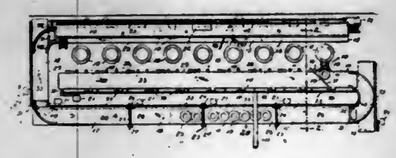
1. A measuring instrument, having a pair of oppositely disposed and spaced apart feelers and a step by step spacing means pivoted to the instrument to be turned between an end of one of the feelers and an abutment on the instrument for moving one of said feelers relatively to the other to regulate the distance between the same.

1,452,835. MECHANICAL TOY. WILLIAM L. GOLDMAN, Los Angeles, Calif. Filed Aug. 16, 1922. Serial No. 582,185. 3 Claims. (Cl. 46—37.)



1. A mechanical toy comprising an inclined elevated track; a car adapted for operation on said tracks and having a drum on an axle thereof; a bucket so suspended from said drum that operative elevational changes in said car will result in inverse elevational changes in said bucket; and automatic means for alternately loading and discharging said bucket in cycles to cause elevational changes therein.

1,452,836. CONVEYER SYSTEM. HOMER J. HOYT, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Aug. 8, 1917. Serial No. 185,027. 23 Claims. (Cl. 198—19.)



1. In a system of the class described, a row of mold treating stations, and a mold conveyer having spaced runs arranged adjacent the row of stations, and a third run connecting the spaced runs whereby separate stations may be simultaneously charged with or discharged of a plurality of molds independently and without interference.

5. The combination with a station, of a continuous conveyer system for advancing sectional molds, said system having a portion leading from said station and a portion leading to said station, means for separating said sectional molds in transit, and means for transferring said molds to said station from said last-mentioned portion of the conveyer system and to said first-mentioned portion of the conveyer system from said station.

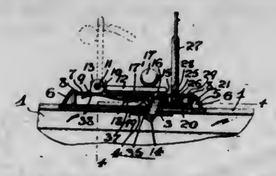
9. Apparatus of the class described, including a row of mold treating stations, a continuous conveyer system having loading and unloading runs on opposite sides of the row of mold treating stations, and a loop interconnecting the loading and unloading runs, said loading run being arranged at an elevation above the mouths of the treating stations for facilitating transfer of molds to the stations.

13. The combination with a stationary mold-treating means, of a continuously moving conveyer system leading from and returning to a station point, a series of sectional molds adapted to be transferred to and from said conveyer at said station point, and means operating

on said molds in transit for separating and reuniting the sections thereof to permit of emptying and filling.

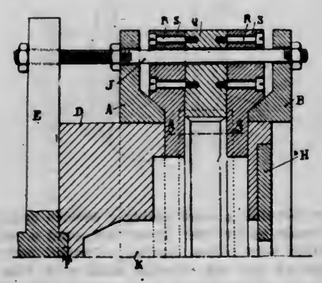
14. Apparatus for curing rubber tires in sectional molds, including in combination, a row of stationary vulcanizing presses having relatively movable platens for clamping a plurality of molds therebetween, a conveyer for carrying molds containing uncured tires in a path adjacent each vulcanizer in the row, and means cooperating with the conveyer for successively and automatically transferring any desired number of molds from the conveyer into any one of said vulcanizers and stacking them therein, while one of its platens is being lowered.

1,452,837. BAG-FRAME FASTENER. JOSEPH S. ISIDOR, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Dec. 14, 1921. Serial No. 522,267. 2 Claims. (Cl. 70—2.)



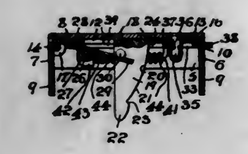
1. A bag-frame fastener comprising a casing provided in its top with a bolt-receiving opening and also with a key-receiving opening, a bolt-carrying plate upon the said top and hinged thereto, a bolt extending downwardly from said plate and into and through the bolt-receiving opening in said top, a plate within said casing, said plate being provided with an extension, a key-receiving post extending upwardly from said extension, connecting members between said plate and said extension, providing an opening in alinement with said bolt-receiving opening and into and through which the said bolt also extends, laterally extending ribs upon said connecting members, a key-operated slide movably disposed upon the extension of said plate, said plate having a portion adapted to be brought into engagement with said bolt, for locking the bolt carrying plate and its bolt against movement, and fingers extending from said slide, said fingers being provided with retaining members adapted to engage said laterally extending ribs.

1,452,838. ROTARY MOLD FOR MOLDING MILLING CUTTERS BY CENTRIFUGAL FORCE. MARTIAL JOSEPH LOEHLER, Asnieres, France. Filed Feb. 3, 1922. Serial No. 535,788. 5 Claims. (Cl. 22—65.)



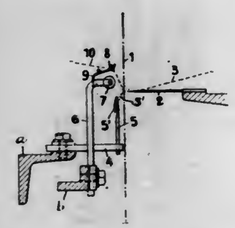
1. In a rotary mold for molding steel milling cutters the combination with a central member whose inner wall reproduces in intaglio the profile of the teeth of the cutter of a pair of cones for centering the member, a driving member upon which one of said cones is centered, and an inlet for metal formed in the other said cone.

1,452,839. BAG-FRAME FASTENER. WILLIAM A. LOTZ, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Apr. 22, 1921. Serial No. 463,498. 12 Claims. (Cl. 292—175.)



1. A bag-frame fastener comprising a casing provided in its top with a bolt-receiving opening and a lock-stud receiving opening, a bolt and lock-stud carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through said bolt-receiving opening, a lock-stud also extending downwardly from said plate and through the lock-stud receiving opening, a manually operated means connected with said casing adapted to be brought into retaining engagement with said lock-stud to maintain a closed and locked relation of said plate and bolt with relation to said casing, but being adapted when operated to bring said plate and bolt into released relation, and means within said casing and co-operating with said bolt for automatically raising said plate and bolt.

1,452,840. DEVICE FOR THE PRODUCTION OF CROCHET SEAMS AND PATTERNS IN EMBROIDERY MACHINES. AUGUST HERMANN MEYER, Plauen, Germany. Filed Sept. 22, 1921. Serial No. 502,507. 5 Claims. (Cl. 112—93.)

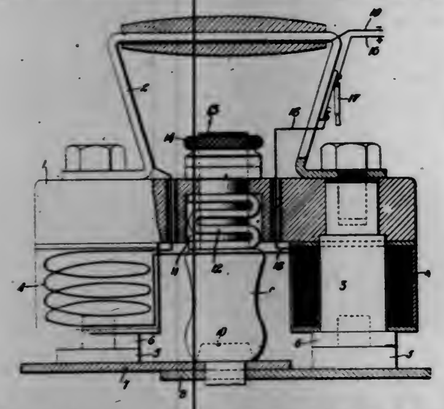


1. In a device for the production of crochet seams and patterns in embroidering machines, the combination with an embroidering needle for introducing a continuous front thread into the fabric, of a hook shaped catch for locking the front thread by a continuous back thread and means for closing the hook of said catch, said latter means being formed with thread guiding means.

1,452,841. MAGNETIC HOLDER-ON. WALDEMAR MEYER, Woodhaven, N. Y. Filed Apr. 16, 1920. Serial No. 374,437. 9 Claims. (Cl. 78—50.)

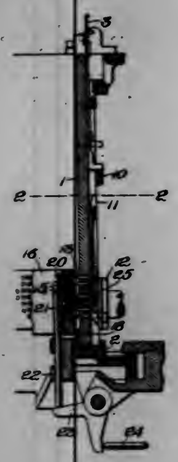
1. A holder-on comprising a bar, a plurality of electromagnets secured to the bar, a holder carried by the bar

and adapted to engage a rivet head, and means between said electromagnets and the work for adjusting the



distance between a magnet coil and the work to conform to the contour of the work.

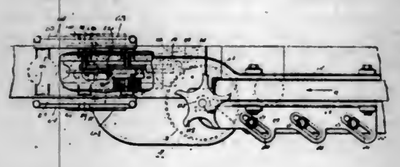
1,452,842. NEEDLE-CONTROLLING MECHANISM FOR KNITTING MACHINES. MAX C. MILLER, Cumberland Hill, R. I., assignor to Jenckes Knitting Machine Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Mar. 13, 1919. Serial No. 282,409. 16 Claims. (Cl. 66—21.)



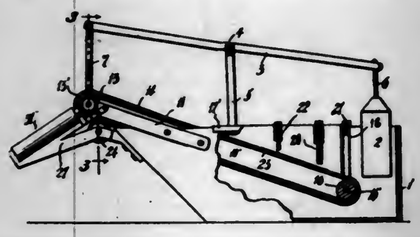
1. A knitting machine having, in combination, a series of needles, a series of needle advancing packs arranged to act on needles distributed among the needle series, a corresponding series of deflectors arranged to act on the jacks, means for progressively actuating the series of deflectors and the series of jacks deflected thereby during the knitting of successive courses.

1,452,843. MACHINE FOR FEEDING VESSELS. ELOF NORDSTROM, Newark, N. J., assignor, by mesne assignments, to American Can Bottle Seal Corporation, a Corporation of Delaware. Filed Oct. 10, 1919. Serial No. 329,806. 11 Claims. (Cl. 198—22.)

1. In a vessel feeding machine, the combination with a travelling conveyer for vessels, of a guide extending longitudinally of said conveyer, a vessel conveying wheel journalled in said guide, flexible driving means for positively rotating said wheel, and means for adjusting said guide towards and away from the central plane of said conveyer.

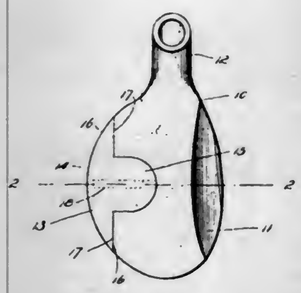


1,452,844. BERRY AND FRUIT WASHING MACHINE. JOHN STONE OGBURN, Lindale, Tex. Filed July 29, 1922. Serial No. 578,412. 3 Claims. (Cl. 146—14.)



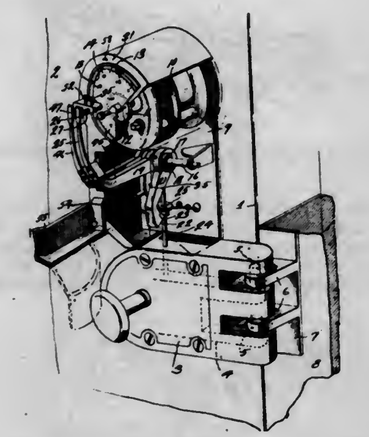
1. A berry cleaning and washing machine comprising a tank, a traveling and oscillating conveyer screen inclined therein; an agitator; screen gates controlling the outward movement of the berries; a brush co-acting with the conveyor screen to clean the screen, and a belt means adapted to travel in a direction at an angle to that of the conveyor screen for collecting leaves and trash from the berries or fruit, on final delivery thereof.

1,452,845. GOLF CLUB. ROBERT D. PRYDE, Orange, Conn. Filed May 21, 1921. Serial No. 471,406. 5 Claims. (Cl. 46—4.)



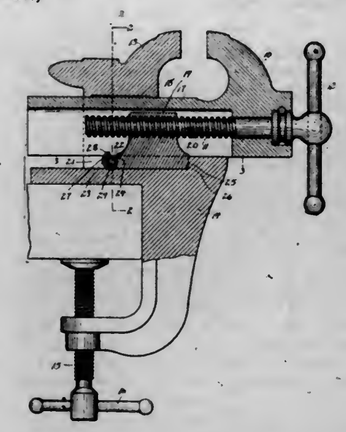
1. In a golf club, a head having a wooden body portion, with a recess in its rear upper face, and a weight secured within said recess, having a central portion that approaches at the top of said head very near to the striking face thereof, and two substantially flat faces that project laterally therefrom and terminate at the outer edge of the head, all of the weight added to said head being at the top and rear thereof.

1,452,846. TIME RECORDER FOR LOCKS. GEORGE PULLMAN, New York, N. Y. Filed Dec. 21, 1921. Serial No. 524,049. 3 Claims. (Cl. 234—1.)



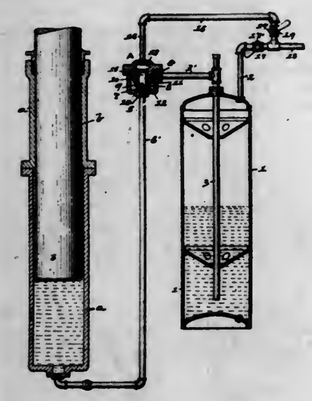
1. A time recording device located adjacent a lock, said time recording device comprising a clock rotated disc having time scales thereon, lever means actuated by the lock upon an operation of the lock whereby the time of actuation of the lock will be recorded on one of the scales of the disc and key actuated lever means whereby the time may be recorded on one of the scales independent of the lock actuated means, and without actuating the locks.

1,452,847. BENCH VISE. JAMES A. QUINLAN, Southington, Conn., assignor to The Peck, Stow & Wilcox Company, Southington, Conn., a Corporation. Filed Sept. 9, 1922. Serial No. 587,094. 5 Claims. (Cl. 81—17.)



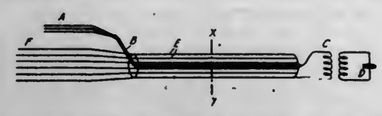
1. In a bench-vise, the combination with a frame having a nut-receiving groove, the side-walls of which are formed with upwardly-opening notches, of a fixed jaw, a movable jaw, an operating-screw for the latter, a nut entered into the said groove and receiving the said screw, and a transversely-arranged locking-pin positioned in the said notches for engagement with the rear end of the nut, to hold the same against endwise displacement.

1,452,848. CONTROL VALVE. ROBERT F. RINGLE, Zelienople, Pa., assignor to Herman Pneumatic Machine Company, Zelienople, Pa., a Corporation of Pennsylvania. Filed July 25, 1919. Serial No. 313,233. 10 Claims. (Cl. 121—46.)



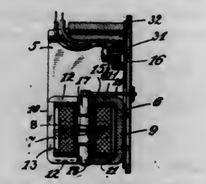
1. In a molding machine operating device of the class described, comprising a cylinder having a fluid actuated plunger therein for raising and lowering the mold and pattern, a fluid reservoir containing fluid under pressure for operating said plunger, valve means between said cylinder and reservoir and partially operated by said fluid for permitting the mold to be withdrawn from the pattern by a slow movement of said plunger, and other fluid operated means for partially controlling the valve means.

1,452,849. WIRELESS TRANSMITTING STATION. HENRY JOSEPH ROUND, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 13, 1921. Serial No. 522,122. 17 Claims. (Cl. 250—17.)



1. In a wireless transmitting station the combination of an aerial, a distant generator, a cable between the aerial and the generator and a system of wires shielding the cable from the earth.

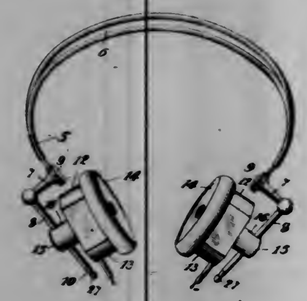
1,452,850. TELEPHONE APPARATUS. LAMBERT SCHMIDT, Brooklyn, N. Y., assignor to Radiotive Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 26, 1922. Serial No. 570,869. 23 Claims. (Cl. 179—108.)



1. In telephonic apparatus, a magnet coil, an armature extending through the bore of said coil and an automat-

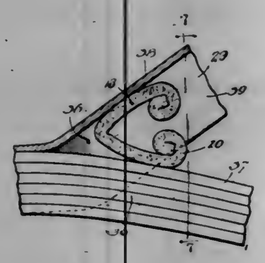
ically balanced suspension means for the armature having a part stationary with respect to the armature and frictionally engaged with the surface of the coil bore, said means normally maintaining the armature in coinciding axial relation with the coil.

1,452,851. HEAD RECEIVER FOR TELEPHONES. LAMBERT SCHMIDT, Brooklyn, N. Y., assignor to Radiotive Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 30, 1922. Serial No. 591,455. 16 Claims. (Cl. 179—156.)



1. In a head receiver for telephones, a head band, a cylindrical rod fixed to one end of said head band, a telephone receiver, and two members carried by said receiver, each movable about its own axis and applicable as a unit with the receiver to applied position upon said rod, said members coacting with the rod at opposite sides thereof to yieldingly resist movement of the receiver with relation to the rod and maintain the receiver in adjusted position thereon.

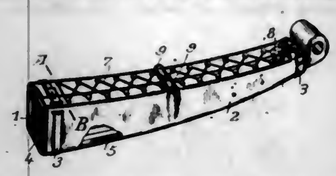
1,452,852. SPRING OILER. CLARENCE R. SIGWALT, Chicago, Ill. Filed June 28, 1920. Serial No. 392,167. 17 Claims. (Cl. 184—1.)



1. The combination in an automobile of a transverse frame member, a spring rigidly connected to the under side of a part of said member and diverging therefrom, and means for oiling said spring on the upper surface thereof beneath said frame member adjacent the point of connection of said spring and said member.

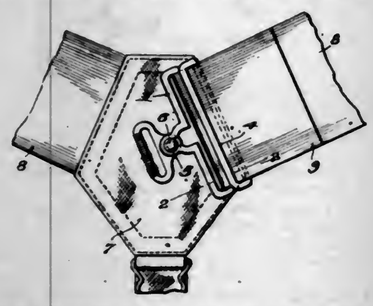
1,452,853. GAITER OF SPRINGS. HENRI STAUB, Manoir du Cygne, Coppet, Switzerland. Filed Aug. 1, 1922. Serial No. 578,949. 2 Claims. (Cl. 267—37.)

1. A new article of manufacture comprising a protective cover for leaf springs, and insertions provided at the corners formed by the springs in cross-sections and adapted to keep the cover at a distance from the spring so



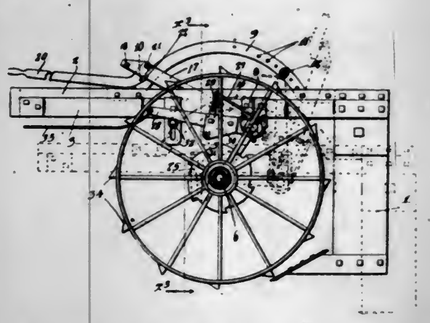
that the former encloses a chamber for the reception of a lubricant.

1,452,854. ADJUSTABLE GARTER BUCKLE. HENRY H. TAYLOR and MYRON B. HAMMOND, Bridgeport, Conn., assignors to The Thomas P. Taylor Co., Bridgeport, Conn., a Corporation of Connecticut. Filed July 12, 1922. Serial No. 574,529. 2 Claims. (Cl. 24—200.)



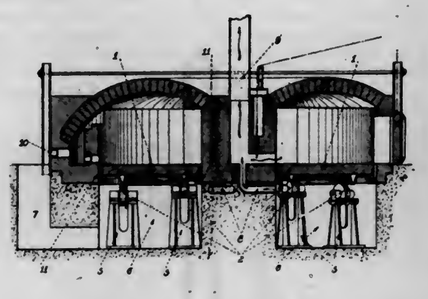
1. In a combined buckle and clasp, an integral blank having four spaced parallel bars, a clasp member formed integral with and extending outwardly from one of the bars, said blank being bent to form two jaws, and webbing looped around one of the bars of one jaw and having superimposed parts extending through the space between the bars of the other jaw, the jaws resiliently clamping the webbing therebetween.

1,452,855. SELF-LIFT FOR AGRICULTURAL IMPLEMENTS. HEBER F. TOWNER, Santa Ana, Calif. Filed May 2, 1921. Serial No. 466,188. 7 Claims (Cl. 97—73.)



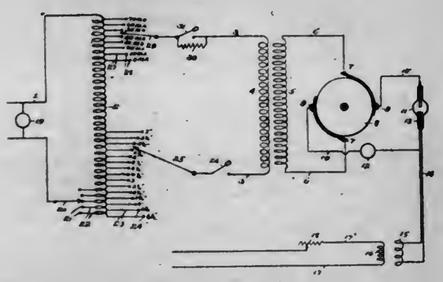
5. A crank-shaft for a self-lift agricultural implement, having a neck at each end to receive the ground wheels, a crank pin portion adapted to support the frame, with crank arms connecting the same with the necks, and a crank-pin spur on the outer side of one of the crank arms, substantially aligning with the said crank-pin portion for carrying clutch mechanism to connect the shaft to the adjacent wheel.

1,452,856. HEATING FURNACE. WILLIBALD TRINKS, Pittsburgh, Pa., assignor to Tate-Jones & Co., Inc., Leetsdale, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1920. Serial No. 373,445. 4 Claims. (Cl. 263—35.)



1. In a heating furnace with an annular, horizontal, rotating hearth table, independent vertically adjustable supports for said table, an enclosed inspection pit below said table, sand seals between the heating chamber and the inspection pit, a plurality of regulable air admission openings at the outer circumference of the inspection pit, and a plurality of ducts leading from said pit to a central stack.

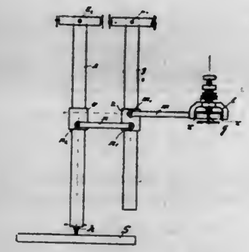
1,452,857. SYSTEM OF VOLTAGE CONTROL. LESLIE S. UPHOFF, U. S. Army, assignor to the Secretary of War of the United States of America, trustee. Filed June 26, 1919. Serial No. 306,996. 2 Claims. (Cl. 175—364.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A system of voltage control, including a main line, a voltmeter in the main line, an auto-transformer in the main line, means for selectively varying the number of turns of the auto-transformer connected in the main line, a transformer connected to the auto-transformer, means for selectively varying the milliamperes of current supplied from the auto-transformer to the transformer, means graduated in terms of spark gap for selectively varying the voltage supply from the auto-transformer to the transformer, and a rectifier connecter to the transformer.

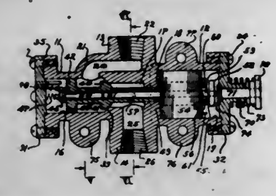
1,452,858. ENGRAVING MACHINE. RUDOLF WETZER, Pfronten, and CURD NUBE, Offenbach-on-the-Main, Germany. Filed Aug. 11, 1921. Serial No. 491,357. 5 Claims. (Cl. 33—24.)

1. An engraving machine, including a pair of normally parallel freely movable suspended members, one of said members adapted to carry a tracing point, a tool holder movably connected to the other of said members, and



means interconnecting said members and adjustable to vary the relative position of said members to one another.

1,452,859. VALVE-OPERATING DEVICE. BERNHARD WICHSER, Brooklyn, N. Y. Filed Aug. 4, 1920. Serial No. 401,247. 7 Claims. (Cl. 137—139.)

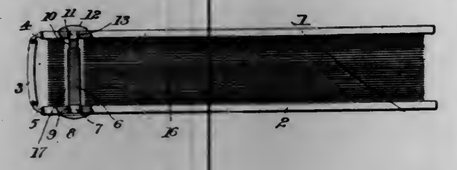


1. A device of the character described comprising in combination, a casing formed with aligned chambers and a compartment, one of the chambers and said compartment having their opposite outer ends open, a main valve intermediate of said chambers adapted to interrupt the flow of fluid therethru, a piston of larger area than said valve movable coincidentally therewith, means permitting the fluid to flow on both sides of said piston so that a preponderance of pressure on one side thereof will tend to keep the valve closed, the piston being provided with a passage of greater capacity than said means designed to establish a communication between the chambers, a pilot-valve arranged to follow movements of the piston serving to maintain said passage shut, an element for opening said pilot-valve to allow the fluid that has passed the means named to escape through the passage in the piston faster than what is supplied thereto, whereby the latter will act to move the main valve to produce a direct flow from one chamber to the other, an electromagnet lodged in said compartment, an armature also contained therein capable of controlling said element thru said magnet, and covers effecting fluid tight closures for the outer ends of one of the chambers and the compartment, while permitting removal of the operating parts of the device without disturbing said casing.

1,452,860. BINDING POST FOR LOOSE-LEAF BOOKS. WILLIAM WILBURGER, Brooklyn, N. Y. Filed Nov. 14, 1921. Serial No. 515,012. 4 Claims. (Cl. 129—13.)

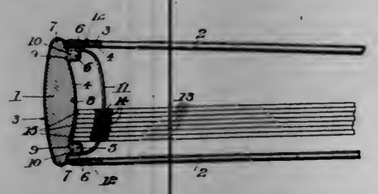
1. A binding post for loose leaf books having its shank composed of two sections of coiled resilient wire, one section having screw connection with the other.

2. A binding post for loose leaf books having its shank formed of coiled wire, and a head fitted over the



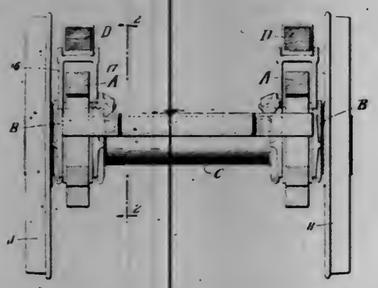
end of said shank and secured in place by having portions thereof bent inward between adjacent coils of the wire.

1,452,861. ALBUM FOR DISK RECORDS. WILLIAM WILBURGER, Brooklyn, N. Y. Filed Dec. 12, 1921. Serial No. 521,780. 8 Claims. (Cl. 192—1.)



1. The combination with a back having a convex inner face, of detachable leaf-retaining members having curved portions parallel to said inner face of the back for the purpose specified.

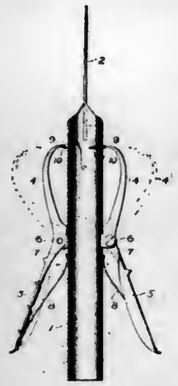
1,452,862. LATERAL-MOTION DEVICE FOR DRIVING BOXES. WILLIAM E. WOODARD, Forest Hills, N. Y., assignor to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 6, 1920. Serial No. 422,248. 21 Claims. (Cl. 105—80.)



1. In a railway vehicle, the combination of an axle box having lateral motion, a load transmitting means, and a leverage means interposed between the box and the load transmitting means offering resistance to the lateral motion of the box.

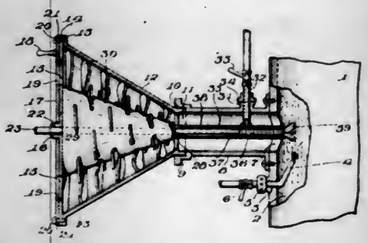
1,452,863. CANNULA AND CLAMP. FRANCIS C. ATWOOD, Newton, Mass., assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 24, 1921. Serial No. 439,340. 12 Claims. (Cl. 128—347.)

1. A cannula for use in withdrawing blood from cattle comprising a hollow body portion capable of being inserted into an incision in the skin and tissues of the animal and having jaws capable of engaging and grip-



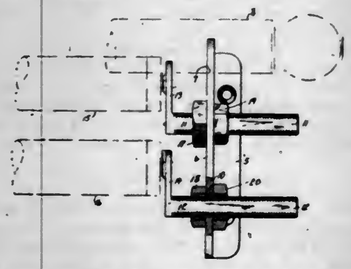
ping the skin and tissue forming the lips of the incision between the jaws and the body portion.

1,452,864. HEATING APPARATUS. RAYMOND A. BALCOM, Akron, Ohio. Filed Mar. 3, 1921. Serial No. 449,583. 3 Claims. (Cl. 158—77.)



1. A fuel feeding mechanism, comprising a conical casing, a conical drum within and substantially uniformly spaced from the sides of said casing throughout its axial extent, air-propelling means carried by said drum, means to rotate said drum to force air towards and from the smaller end of said casing, and means adjacent to the outlet end of said casing operative to mix a liquid fuel with the air passing therefrom.

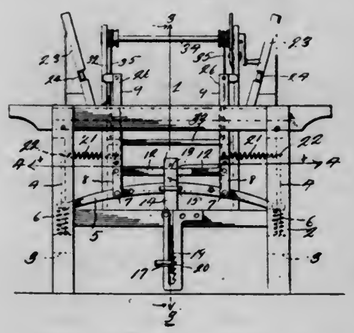
1,452,865. COMBINED WINDOW-SHADE BRACKET AND CURTAIN-POLE SUPPORT. GENNARO BASILIO, New Haven, Conn. Filed Jan. 30, 1922. Serial No. 532,648. 1 Claim. (Cl. 156—24.)



In a combined double window-shade bracket and curtain-pole support, the combination with a plate formed

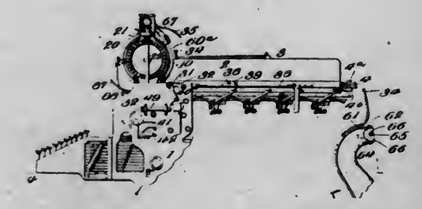
upon its inner edge with an integral flange standing at a right angle to it and adapting it to be secured to a window casing, and the said plate being formed in its upper edge with a seat for a curtain-pole and below the said seat with two non-circular holes; of two shade-mounting brackets having shade-mounting arms, and non-circular threaded shanks adapted to pass through the respective non-circular holes of the bracket in which they are held against rotation, and two nuts located upon each of the said shanks on opposite sides of the plate, whereby the shanks are firmly supported therein with a capacity for endwise adjustment.

1,452,866. FRUIT-PRESS CRATE AND CLEAT-POSITIONING MACHINE. GEORGE CARL BOLLER and WARREN BIGFORD BOLLER, Loomis, Calif. Filed Jan. 18, 1921. Serial No. 438,234. 4 Claims. (Cl. 100—57.)



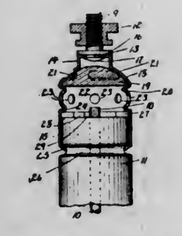
1. A fruit crate cover press and cleat positioner, said press comprising a bed plate supported on a frame, and adapted to have placed thereon a fruit crate having a cover, cleat magazines adjacent the ends of the bed plate, and means whereby cleats will be simultaneously removed from the magazines moved inwardly and downwardly to positions adjacent the ends of the cover of the crate and the cover pressed downwardly on the crate at its ends.

1,452,867. FEEDING AND IMPRINTING MECHANISM FOR MAIL AND OTHER UNITS. ARTHUR J. BRIGGS, Syracuse, N. Y., assignor to The Auto Mail Distributer, Inc., Syracuse, N. Y., a Corporation of New York. Original application filed May 23, 1913, Serial No. 769,438. Divided and this application filed Aug. 13, 1914, Serial No. 856,605. Renewed July 17, 1922. Serial No. 575,638. 41 Claims. (Cl. 271—28.)



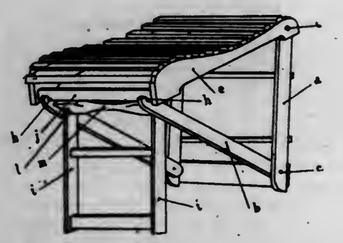
10. In combination a letter way provided with spaced fingers forming the front end wall thereof and having mechanism for maintaining letters or the like arranged on edge face to face together in a pile, said way also provided with means to hold back the lower longitudinal portions of the letters in rear of said fingers, a periodically movable feeder to successively move the foremost letters in said way forwardly past said means and their lower portions into engagement with said fingers, and a rotary turret having means for successively removing said foremost letters in engagement with said fingers and for displaying the addressed faces of the letters at an inspection station and for depositing the letters at a discharge station.

1,452,868. VISIBLE SPARK PLUG. WILLIAM H. BURT, Waterbury, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Feb. 16, 1921. Serial No. 445,352. 7 Claims. (Cl. 123—169.)



1. A visible spark-plug having a sparking-chamber, a lens-chamber located directly above the said sparking-chamber and provided with observation-openings arranged to permit an observer to look downward through them into the said sparking-chamber, and a lens located in the said lens-chamber the said observation-openings whereof are located at one side of the vertical axis of the plug.

1,452,869. PORTABLE FOLDING SEAT. RAYMOND EUGÈNE CATTIER, Paris, France. Filed Jan. 30, 1922. Serial No. 532,812. 5 Claims. (Cl. 155—154.)

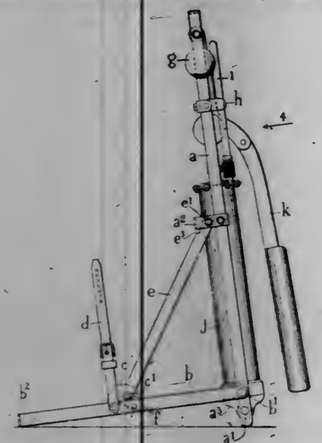


1. A portable folding seat comprising a seat member, having an abutment piece at one extremity in combination with a trestle composed of a pair of struts, the upper ends of which are pivotally connected with the other extremity of the seat member, a pair of supports pivotally connected at one end with the lower end of said struts and engaging at their other ends the abutment piece of the seat member, and a second pair of struts pivoted to the supports near their place of engagement with the abutment piece.

1,452,870. TIRE-INFLATING PUMP. THOMAS MORRIS DAVIS, Llanelly, Wales. Filed Apr. 20, 1922. Serial No. 555,668. 4 Claims. (Cl. 230—27.)

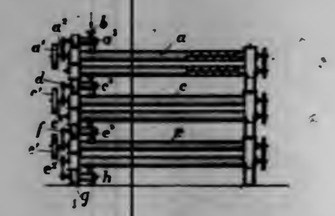
1. An improved air pump having in combination a standard, a pump barrel pivoted at its lower end to the standard, a hand lever pivoted at its upper end to the standard and connected intermediate of its ends to the pump rod, a base pivoted to the standard, plates carried

by the sides of the base, a slot in each of said plates, a bridge piece carried by the standard, stay rods pivoted to



said bridge piece and pins, carried by the lower end of the stay rods, adapted to enter the slotted plates carried by the base, substantially as set forth.

1,452,871. PROCESS FOR STERILIZING FLOUR AND GRITS MADE FROM CEREALS. KARL DIENST, Charlottenburg, near Berlin, Germany. Filed Apr. 19, 1921. Serial No. 462,779. 1 Claim. (Cl. 83—42.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



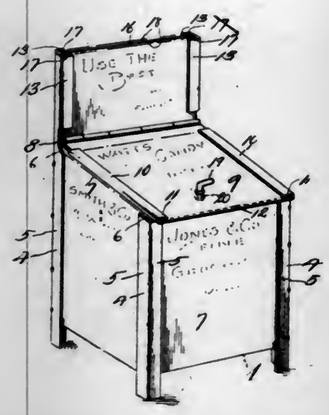
In a process for sterilizing flour or grit made from cereals and simultaneously increasing its baking capacity, the combination of drying the flour or the like under exclusion of atmospheric air and under constant agitation in a known manner under vacuum at a temperature of about 45° centigrade, then heating the flour to about 80 degrees centigrade and more, and subsequently subjecting it likewise under vacuum to rapid and strong cooling.

1,452,872. METHOD OF PRODUCING PHONOGRAPH RECORDS. VICTOR H. EMERSON, New York, N. Y., assignor, by mesne assignments, to Metal Recording Disc Company, Inc., a Corporation of New York. Filed Apr. 20, 1920. Serial No. 375,242. 3 Claims. (Cl. 18—48.4.)



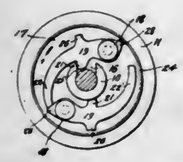
1. A method of forming sound records which comprises the following steps; preparing a thin metal disk, roughening the surfaces of the disk and applying a mass of thermo-plastic record material to each of said surfaces at substantially the centers thereof, applying heat to render said masses plastic and then pressing the sound record grooves into said record material by means of matrices as said matrices spread said record material upon the surface of the disk.

1,452,873. SIGN EXHIBIT. ZENAS A. GIFFORD, Lockport, N. Y. Filed Nov. 2, 1922. Serial No. 598,559. 1 Claim. (Cl. 40—63.)



The combination with a rectangular shaped receptacle, of reinforcing and sign holding means carried thereby, said means comprising angle bars disposed in the corners of the receptacle, an angle bar disposed on the outer sides of the corners, angle bars disposed on the last named angle bars and having their flanges wider thereby forming channels for the reception of signs, the rear outer angle bars extending upwardly above the receptacle and provided with oppositely disposed inwardly extending flanges thereby forming sign receiving channels.

1,452,874. CURTAIN ROLLER. FRANKLIN H. HART, New Haven, Conn., assignor to C. Cowles and Company, New Haven, Conn., a Corporation of Connecticut. Filed Sept. 19, 1921. Serial No. 501,533. 9 Claims. (Cl. 156—35.)



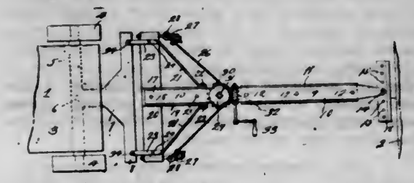
7. A curtain roller comprising rotary and stationary elements, means tending to rotate the rotary element in one direction, a plurality of separate relatively movable pawls carried by the rotary element and provided with shoulders, said stationary element being provided with a shoulder adapted to coact with the shoulder on any of the pawls to prevent turning of the element under the action of said means, and means carried by each pawl adapted when the pawl is in holding position to engage the adjacent free pawl and retain the same stationary to prevent rattling thereof.

1,452,875. STREET SAFETY ZONE. GEORGE E. HEALY, Buffalo, N. Y. Filed Mar. 22, 1920. Serial No. 367,610. 6 Claims. (Cl. 256—1.)



1. A safety zone device rigidly mounted in a concrete base and having a metalic portion consisting of vertical tubular posts carrying a plurality of tubular railing members in parallel relation with the base and a plastic portion extending at an oblique angle from said metallic portion and cooperating therewith for the purpose set forth.

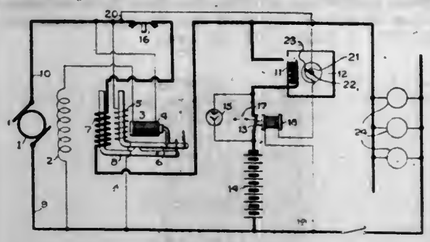
1,452,876. VEHICLE TONGUE. WILLIAM B. HUGHES, Newcastle, Ind. Filed Mar. 29, 1922. Serial No. 547,761. 1 Claim. (Cl. 280—33.6.)



A towing bar for threshing machines, said bar being formed from spaced plates, a spacing member between said plates and terminating spaced from the ends of the plates, an arm pivoted between said plates adjacent their rear ends and extending forwardly, means passing through the plates and preventing movement of the arm, a transversely disposed bar pivoted to the underside of the lower plate, braces connecting the transversely disposed bar and the forward end of the arm, a gear pivotally mounted on the upper side of the upper plate, a pulley carried by the upper side of said gear, a cable extending entirely around said pulley and having its ends connected to the transversely disposed bar adjacent its ends, a worm meshing with the gear and a crank carried by said worm.

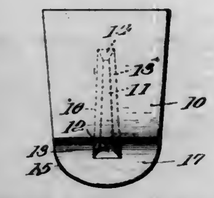
1,452,877. SYSTEM OF DISTRIBUTION. GEORGE E. HULSE, Newark, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Dec. 9, 1918. Serial No. 265,823. 18 Claims. (Cl. 171—313.)

5. In a system of the character described, in combination, a generator, a storage battery connected to be charged thereby, and a plurality of independent means each of which independently of the other is adapted to reduce the charging current upon said battery reaching full charge, one of said means including a voltage responsive coil connected to register charging voltage and an ampere hour meter connected to register full charge of said battery and to affect the operation of said voltage responsive coil upon said meter indicating full charge



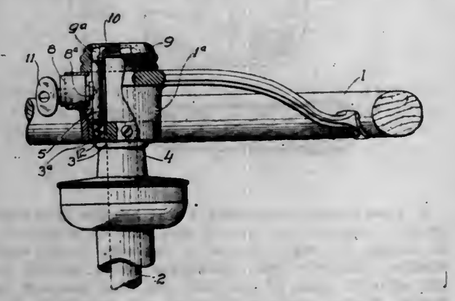
of said battery, and the other of said means including and being controlled by a voltage responsive coil connected to register charging voltage.

1,452,878. ARTIFICIAL TOOTH. MICHAEL KARMANN, Highland Park, Mich. Filed May 26, 1922. Serial No. 563,875. 2 Claims. (Cl. 32—9.)



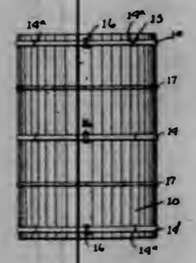
1. The combination with an artificial tooth having a plane back face with a groove therein and a beveled base intersecting said back face, of a plate-like backing plate covering the back face of the tooth and having a tenon on its front face complemental to said groove, the base end of said tenon projecting beyond the plane of the base edge of said plate and also beyond the plane of the beveled base of the tooth.

1,452,879. AUTOMOBILE LOCK. JAMES D. KING, Chicago, Ill. Filed Jan. 26, 1920. Serial No. 354,090. 2 Claims. (Cl. 70—129.)



1. In a steering wheel lock, in combination with the post and wheel, a pair of bolts longitudinally slidable in the wheel hub, a cap covering the top of said post and wheel and having internal sockets for the upper end of said bolts, a collar rigid on said post and provided with internal sockets for the lower end of the bolts, a cross bar combining said bolts, said bar having a transverse slot, and a key operated lock having a driving pin engaging said slot.

1,452,880. KNOCKDOWN BARREL. GEORGE A. LE FEVRE, Richmond Hill, N. Y., assignor to Paxfiat Barrel & Crate Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1922. Serial No. 527,085. 1 Claim. (Cl. 217—44.)

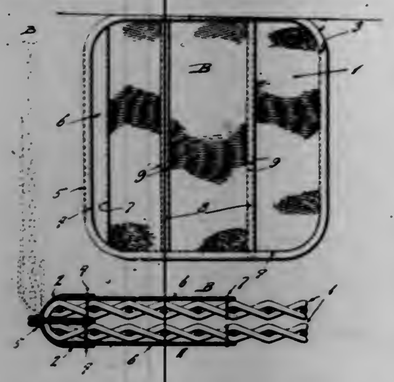


A flexible body blank for knock down barrels comprising staves placed together edge to edge and transverse flexible members lacking the functional characteristics of a hoop secured to the staves to hold them in the right relation.

1,452,881. FAT-SPLITTING REAGENT AND METHOD OF MAKING THE SAME. LELAND J. LEWIS, New York, N. Y., assignor of one-half to Ralph H. McKee, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,387. 3 Claims. (Cl. 260—159.)

1. Cymenestearosulfonic acid.

1,452,882. SEAT COVER. JOHN J. LOESCH, St. Louis, Mo., assignor to Evr Klean Seat Pad Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 24, 1921. Serial No. 509,902. 2 Claims. (Cl. 155—182.)



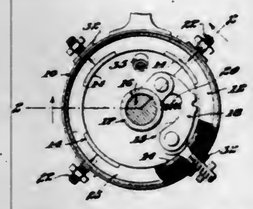
1. A seat cover, comprising a seat member of woven fabric, a separate back member also made of woven fabric having one edge adjacent to one edge of the seat member, relatively wide reinforcing strips secured to the adjacent edges of said seat and back members, a flexible binding strip surrounding and embracing the marginal edge of each of said members and also embracing the marginal edges of said reinforcing strips, stitches securing said binding strips to said members respectively and the adjacent portions of said binding strips being extended beyond the woven fabric at the adjacent edges of said seat and back members, and means securing the extended portions of said binding strips together to form a hinge uniting said seat and back members.

1,452,883. VAPORIZER FOR COMBUSTION ENGINES. MILTON C. LOESCH, Cincinnati, Ohio, assignor of one-half to William F. Ryan, Cincinnati, Ohio. Filed Apr. 28, 1920. Serial No. 377,297. 1 Claim. (Cl. 219—38.)



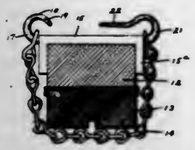
A device of the class described comprising an electrical heating element, means to mount the heating element transversely of the bore of an intake manifold, and a heat radiating, fluid absorbing, electrically insulating cover for the heating element.

1,452,884. TIMER. ALBERT P. MCCULLOCH, Dorchester, Mass. Filed Feb. 7, 1919. Serial No. 275,639. 7 Claims. (Cl. 200—19.)



1. A timer comprising a housing, a series of relatively thin contact plates, a fiber insulating ring of substantially greater depth than the thickness of the contact plates and consisting of a plurality of sections corresponding in number to the plates and each having shouldered portions formed in the inner face at opposite ends to receive the contact plates when the sections of the ring are assembled therewith and provide a continuous, smooth, circular track, and terminal screws connected with the contact plates for securing the plates and insulating ring within the housing.

1,452,885. FELLY-ENGAGING ANTISKID-CHAIN-ANCHORING MEANS. GEORGE P. MACINTOSH, Wakefield, Mass. Filed Oct. 10, 1921. Serial No. 506,585. 1 Claim. (Cl. 152—14.)



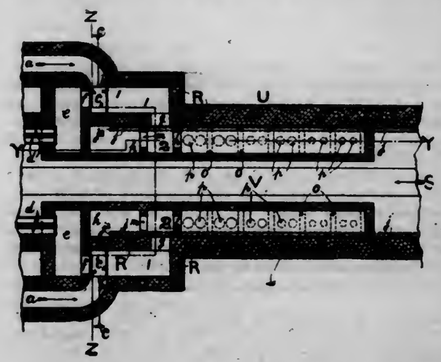
An anti-skid-chain anchoring means, adapted to hold a chain in the form of a loop extending across the tread of a wheel tire and across the opposite sides of the felly, comprising a base adapted to be secured to the inner face of the felly, said base being provided with hooks coextensive therewith and projecting therefrom to project outward from the opposite sides of the felly, so that the end portions of chains whose terminal links are engaged with said hooks extend substantially straight from the hooks across the sides of the felly, each hook being connected with the body of the base by a curved neck whereby the hook is directed backward and overhangs the base, said means including oppositely directed laterally extending flukes so arranged that a terminal link of the chain can only be engaged with the flukes by being arranged in a position substantially at right angles to that occupied by it after being passed onto said curved neck.

1,452,886. SPOKE-ENGAGING ANTISKID-CHAIN-ANCHORING MEANS. GEORGE P. MACINTOSH, Wakefield, Mass. Filed Oct. 10, 1921. Serial No. 506,586. 1 Claim. (Cl. 152—14.)



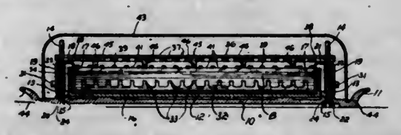
The combination with a spoked wheel, an elastic tire and an anti-skid chain adapted to be looped across the sides of the wheel felly and the tread face of the tire; of a pair of guarded hooks, and means securing said hooks to a spoke of the wheel, the hooks projecting from opposite sides of the spoke, each hook including a curved neck portion projecting from one side of the spoke and centrally thereof, a terminal portion overhanging the base of the neck portion, and flukes on the terminal portion projecting in opposite directions from the plane of the neck portion, said flukes having inclined outer link-guiding edges formed to permit the passage of terminal chain links across the said terminal portions and onto the neck portions, when the links are held in abnormal positions, and shoulder-forming inner edges formed to prevent the removal of said links when they are in their normal positions, said neck portions supporting the looped chain in its operative position.

1,452,887. GAS-FIRED OVEN OR KILN. JOHN HENRY MARLOW, Stoke-upon-Trent, England. Filed May 17, 1921. Serial No. 470,265. 6 Claims. (Cl. 25—142.)



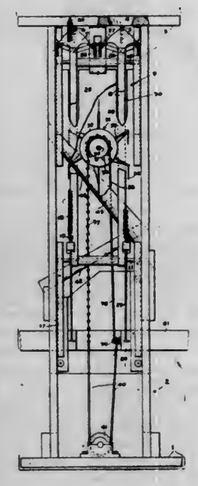
1. A tunnel oven or kiln provided on opposite sides with combustion chambers and air supply pipes, passages communicating with the combustion chambers, said passages decreasing in area towards the front of the oven or kiln, and a series of orifices which communicate with said passages.

1,452,888. GLUING MACHINE. CLIFFORD W. MARSH, Bridgeport, Conn. Filed Aug. 23, 1920. Serial No. 405,350. 11 Claims. (Cl. 91—47.)



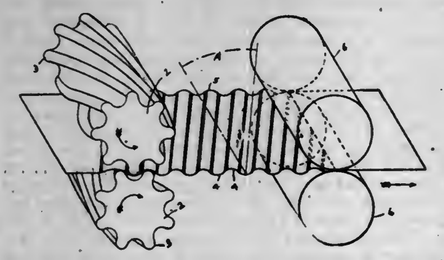
1. In a gluing machine, a glue pot, a sliding frame therein, a glue depositing comb provided with teeth carried by said sliding frame, and means for causing said teeth to be moved upwardly in said glue pot, said means comprising a hand lever adapted to have a sliding engagement with said sliding frame and provided with a stop for limiting the upward movement thereof.

1,452,889. FRUIT-PITTING MACHINE. SOICHI NAKASHIMA, Livingston, Calif. Filed June 20, 1922. Serial No. 571,044. 5 Claims. (Cl. 146—6.)



1. A fruit pitting machine comprising a frame having a table at its upper end provided with openings through which pieces of fruit to be pitted are dropped, means located immediately beneath the openings for engaging and releasably supporting pieces of fruit dropped through the openings, fruit gripping members mounted in the frame so as to be movable towards one another on opposite sides of the fruit supporting members and into engagement with which said fruit is moved, means for moving said fruit gripping members downwardly to move the fruit into contact with and beneath said knives, a rotating member beneath the knives having striker members pivoted thereon and arranged to engage pits of the fruit as the fruit is moved downwardly and means causing rotation of said rotary member coincident with the downward movement of the fruit past the knives.

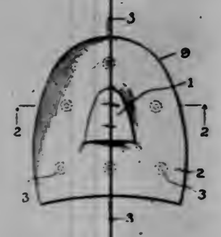
1,452,890. METHOD OF OPENING SHEET AND TIN-PLATE PACKS. WILLIAM NEWBY, Youngstown, Ohio. Filed May 23, 1921. Serial No. 471,840. 4 Claims. (Cl. 29—19.)



1. The method of opening sheet and tin plate packs by rolling corrugations into the pack, each corrugation be-

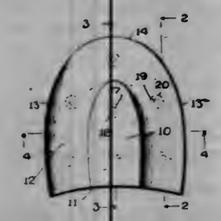
ing thus rolled gradually from one side toward the other transversely of the direction of movement of such pack through the rolls, and then passing the corrugated pack through flattening rolls.

1,452,891. RUBBER-HEEL LIFT. CLIFFORD H. OAKLEY, Trenton, N. J. Filed Mar. 27, 1919. Serial No. 285,469. 2 Claims. (Cl. 36—35.)



1. A resilient heel lift comprising a central core having parallel flat top and bottom surfaces, the top surface being of a sufficient area to form a stable base to support the lift when resting thereon and a deformable portion of uniform width surrounding said core and having a top surface normally concave when undistorted with the outer edge in the plane of the flat top surface forming a peripheral heel engaging rim, and a convex bottom surface corresponding to the concave top surface, said deformable portion being arranged to be deformed upon attachment to a heel to bring portions of the concave top surface into contact with the bottom heel surface without displacement of the central core substantially as described.

1,452,892. RESILIENT HEEL LIFT. LAURENCE M. OAKLEY, Trenton, N. J., assignor to Clifford H. Oakley, Trenton, N. J. Filed Feb. 5, 1920. Serial No. 356,374. 3 Claims. (Cl. 36—35.)



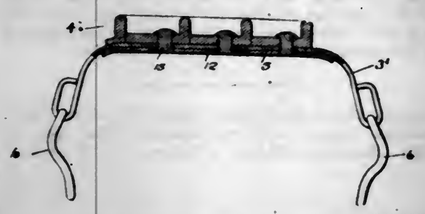
1. A deformable resilient heel lift of uniform thickness throughout, the upper surface of said lift having a central flat portion of a width equal to approximately one-third of the width of the lift and of substantial area disposed in a plane passing through the outer edges of the lift and a groove of uniform width throughout substantially its entire length; terminating at the breast edge of the lift and extending around said flat portion; the tread surface of the lift having a corresponding flat portion and a ridge of uniform width throughout substantially its entire length terminating at the breast edge and extending around said flat portion; the said lift being provided with nail holes positioned in said central flat portion and along the median line of said ridge and groove and disposed at right angles to the plane of said flat portion, whereby the lift when attached to a shoe heel may be deformed to produce a substantially uniform pressing contact from one breast corner along the side and rear edges of the heel to the other breast corner.

1,452,893. ATTACHMENT FOR SKINNING KNIVES. HARRY W. L. PORTH, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1922. Serial No. 559,891. 5 Claims. (Cl. 17—21.)



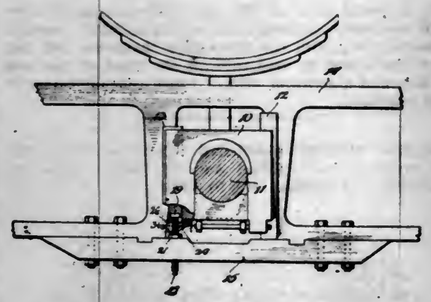
1. An attachment for skinning knives comprising a guard hinged to the knife, automatic means for locking said guard adjacent the blade of the knife, and means for swinging said guard away from the face of the blade when the locking means is released.

1,452,894. TREAD FOR AUTO TIRES. JOHN B. POUK, Streator, Ill., assignor of one-half to Benjamin D. Roberts, Streator, Ill. Filed Jan. 21, 1919. Serial No. 272,302. 1 Claim. (Cl. 152—16.)



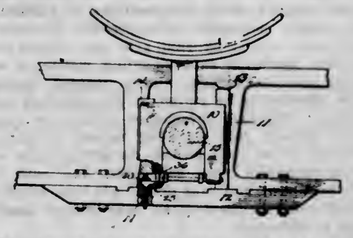
In a tread for vehicle wheels, the combination of identically constructed tread units consisting essentially of plates formed of flexible material adapted to bear and rest upon the tread portion of a tire casing, rivets permanently secured in the flexible material, plates formed of metal superimposed on the first-named plates and having inwardly extending tongs that terminate in hooks; said second-named plates having apertures in their body portions through which the rivets of the first-named plates pass by which the plates are fixedly secured to each other, and angle-iron plates superimposed on the second plates and secured thereto by the rivets.

1,452,895. LOCOMOTIVE DRIVING BOX. EDWARD W. RAWDON, Akron, Ohio. Filed July 20, 1922. Serial No. 576,358. 11 Claims. (Cl. 105—81.)



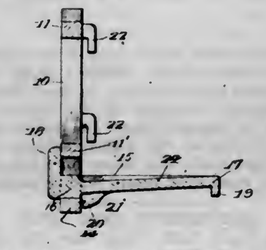
1. The combination with a journal box, a pedestal operatively supporting the box, and means interposed between the box and pedestal and adjustable for taking up forward and rear play of the box, of means operable by the box for adjusting the first means.

1,452,896. LOCOMOTIVE DRIVING BOX. EDWARD W. RAWDON, Akron, Ohio. Filed Oct. 6, 1922. Serial No. 592,755. 9 Claims. (Cl. 105—81.)



1. In a journal box, a box body, a pedestal operatively supporting the box body, means interposed between the box body and the pedestal adjustable for taking up forward and rear play of the box body, means for adjusting said first-mentioned means including a pawl and ratchet, and an operative connection between the box body and said pawl adapted to accommodate vertical movement of the box body with respect to the pawl.

1,452,897. GRATE. GEORGE M. SMITH, Maryville, Tenn., assignor of one-fourth to Rutherford M. Henry, Maryville, Tenn. Filed Mar. 16, 1922. Serial No. 544,203. 2 Claims. (Cl. 126—164.)



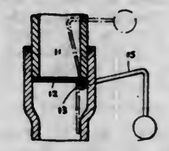
1. A grate basket comprising a front member having legs, said legs having ledges, and a removable grate member comprising a frame resting on said ledges, said frame having lugs bearing against the front face of the front member of the basket and lugs bearing against the rear of the ledges, said grate member being removable through the front member.

1,452,898. PROCESS OF TREATING ROCK ASPHALT. JOHN BLEWETT SMYTH, Beaumont, Tex. Filed Apr. 24, 1920. Serial No. 376,876. 10 Claims. (Cl. 18—48.)

1. A process of treating porous rock, the pores of which are partially filled with hard asphaltic material, said process consisting in comminuting said rock, thoroughly disseminating, throughout a mass of the comminuted rock, only sufficient solvent of the asphaltic material to soften the surface of said material to such an extent that the particles may be kneaded together, and to fill the voids in the pores of the rock not occupied by said asphaltic material.

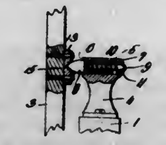
1,452,899. FLUID-FLOW-CONTROLLED SAFETY APPARATUS. CHARLES LESLIE STOKOE, Wallsend-on-Tyne, England. Filed Jan. 27, 1920. Serial No. 354,885. 1 Claim. (Cl. 200—81.)

A circuit closer for safety apparatus actuated on the failure or commencement of the flow of fluid through a pipe, comprising, in combination, a pipe, a spindle extending transversely through said pipe at one side thereof, a flap valve fixed on said spindle within said pipe and normally held open by fluid flowing through the pipe, a weighted lever on said spindle outside the pipe tending to cause the flap valve to assume a position in which it extends transversely across the pipe in the path of fluid flowing therethrough, an arm on said spindle outside the pipe, a block of insulating material on said arm, a supporting member of insulating material fixed



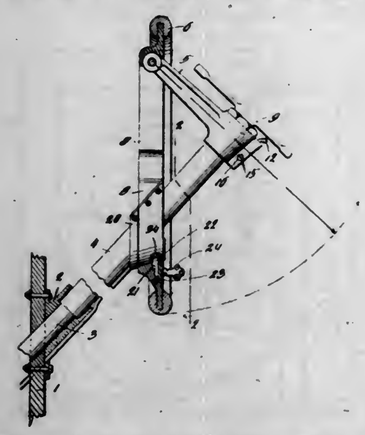
on the outside of the pipe, and a pair of resilient switch members mounted on said supporting member, said switch members being operated by the block of insulating material on the arm on the valve spindle upon rotation of said spindle upon failure or commencement of the flow of fluid through the pipe.

1,452,900. LOCKING MEANS FOR BELT-TIGHTENING MECHANISM. CHARLES H. TURNER, Statesville, N. C. Filed July 29, 1921. Serial No. 488,348. 1 Claim. (Cl. 74—89.)



In combination, a control lever for a belt tightening mechanism, a plate mounted on the control lever and provided with a centrally disposed indenture, arcuate ears extending in opposite directions from each other and laterally from the sides of the lever, and a second pair of ears extending from the plate in opposite directions and aligned at substantial right angles to the first mentioned ears, means passing through the second mentioned ears for fastening the plate to the lever, and a spring pressed latch element engageable with the plate and the arcuate ears and the indenture all in the manner and for the purpose specified.

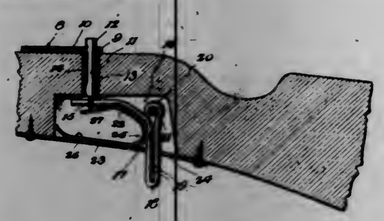
1,452,901. STEERING LOCKING DEVICE. LUDWIG WERLE, Sturgeon Bay, Wis. Filed Mar. 29, 1921. Serial No. 456,766. 1 Claim. (Cl. 74—33.)



The combination of a steering column, a steering shaft and a steering wheel secured to said steering shaft

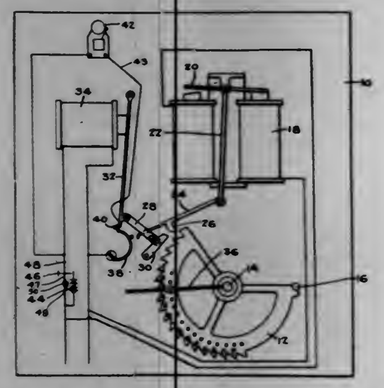
so as to rotate therewith but adapted to tilt about an axis transverse of the axis of said shaft so that it may be tilted from a normal operative to an out of the way position; said steering column including a member disposed at the limit of tilting movement of the wheel, a switch in said member, means for normally holding the switch in a closed position, a spring pressed latch mounted on said wheel and engageable with said switch when said wheel is in an out of the way position for holding said switch open, said switch being located in the ignition system of a vehicle to which the steering wheel is attached.

1,452,902. TOY GUN. ROY H. WILLIAMSON, Spooner, Wis. Filed Feb. 10, 1921. Serial No. 443,913. 5 Claims. (Cl. 124—14.)



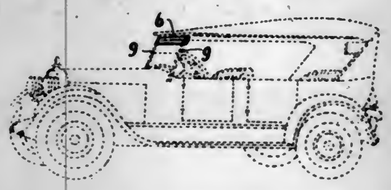
3. In a toy gun, a gun body having a recess in its under side, a plate closing the recess and provided with a slot, a pivot pin extending across the recess above the said plate, a trigger comprising a length of wire bent upon itself to provide a finger piece having one terminal formed with an eye pivotally engaging the said pin, the finger piece fitting through the slot in the said plate and adapted to engage one end wall of the slot whereby to have its movement in one direction limited by such engagement, the other terminal portion of the wire being extended forwardly within the recess to provide a finger, a detent pin slidable in an up and down direction in the gun body and having its lower end projecting into the recess and operatively engaged by the said finger, and a bowed leaf spring arranged between the said finger and the said plate and having one of its members resting against the upper side of the plate and its other member engaging beneath and bearing upwardly against the said finger whereby to yieldably hold the trigger in position to project the detent pin.

1,452,903. STATION SELECTOR. OLE K. BAKKEN, Northwood, N. Dak. Filed Jan. 30, 1920. Serial No. 355,289. 1 Claim. (Cl. 177—343.)



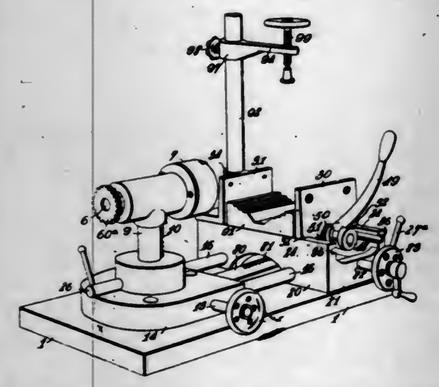
A selective signaling device for party lines comprising signaling means, a ratchet wheel, an arm adapted to be fixed in different positions on said ratchet wheel, a pawl engaging said ratchet wheel, a stationary electro magnet, connections between said pawl and the armature of said electro magnet whereby successive electrical impulses move said ratchet wheel progressively, a pivoted bow-shaped member normally in inoperative position and adapted to be moved by said arm into circuit-making position for operating said signaling means, a second stationary and independent electro magnet having an armature adapted to be moved by an electrical impulse into contact with said bow-shaped member to complete a circuit through said signaling means, a detent for said ratchet wheel, and a link connecting said second mentioned armature with said pawl and said detent whereby said pawl and said detent are both lifted away from said ratchet wheel when said second mentioned armature is attracted.

1,452,904. AUTO-WINDSHIELD ATTACHMENT. MAX BECKER, Los Angeles, Calif. Filed May 18, 1922. Serial No. 561,872. 1 Claim. (Cl. 296—97.)



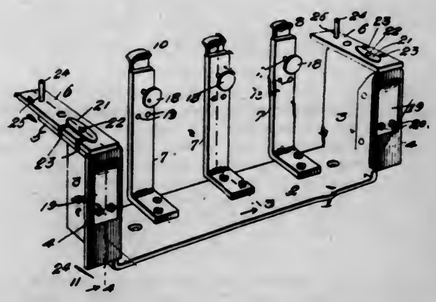
In a wind shield attachment, a rear-sight reflector comprising a hollow body having a mirror in its rear side and having perforations in its front side, a shading member shiftably disposed in the hollow body and adapted to be lowered below the lower edge of the mirror for increasing the normal shading facilities of the mirror, and controlling means for adjustably holding the auxiliary and second-named shading member.

1,452,905. AUTOMOTIVE TEST UNIT. ELMER G. BEEHLER, Yuma, Colo. Filed Sept. 24, 1921. Serial No. 502,863. 5 Claims. (Cl. 73—51.)



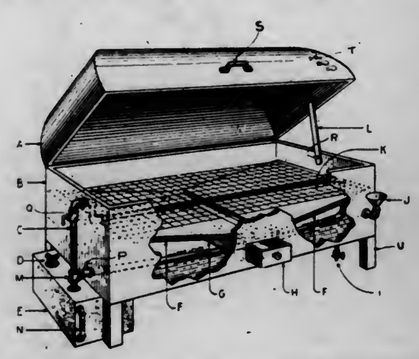
1. In an automotive equipment testing means of the character described, the combination with a base, a test head carrying support mounted on the base, means mounted on the base and engaging the support for effecting vertical adjustment of the test head, a pair of parallel oppositely disposed horizontal rods and a horizontal rack rod intermediate of the parallel rod and in parallelism with the said rod, the several rods being fixedly connected to the base that supports the test head, of a vise, a supporting frame therefor mounted on the aforesaid pair of oppositely disposed rods, said vise being adapted to hold the equipment to be tested and means carried on the vise for effecting adjustment thereof on the said rods to and from the test head, the said means including a hand operable rotatable shaft having a gear engaging the rack rod.

1,452,906. SPLICING APPARATUS. OBADIAH BUTLER and AMOS MORIN, Killingly, Conn. Filed Aug. 28, 1922. Serial No. 584,932. 5 Claims. (Cl. 117—6.)



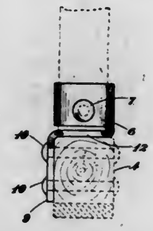
1. In an apparatus of the class described, the combination of a frame, including a base and ends, said ends provided with front and horizontal flanges, yarn-holding means carried by said front and horizontal flanges, and strand-holding or clamping means on said frame between said ends.

1,452,907. STEAM CABINET FOR FOODS. ROBERT JOSEPH CAMPBELL, Denver, Colo., assignor to W. Hawley Smith, Denver, Colo. Filed Sept. 17, 1921. Serial No. 501,414. 1 Claim. (Cl. 126—20.)



In a warming cabinet for food having a tight fitting lid, a water tank formed at the bottom of the cabinet, a perforated tray above said tank, dripping boards between said tank and said tray, said boards being inclined towards the middle of the cabinet, a dripping pan beneath the lower ends of said boards, a steam chest mounted exteriorly to the tank, a steam supply pipe from said chest provided with cocks adjacent the top and bottom of one end of the cabinet, a conduit opening into said supply pipe adjacent said cocks and having an upper horizontal portion situated above said dripping boards, and a lower horizontal portion situated below said dripping boards, whereby a complete circuit is formed by said supply pipe and said conduit for circulating steam from said chest through the cabinet.

1,452,908. SPOKE GRIP. MILTON NOAH COLVIN, Komoka, Ontario, Canada. Filed Mar. 16, 1922. Serial No. 544,383. 1 Claim. (Cl. 301—70.)



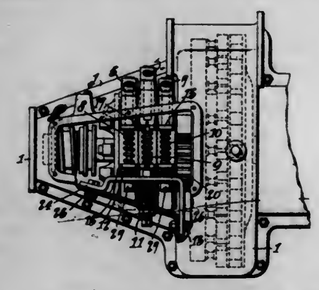
The herein described attachable reinforcing means for vehicle wheel spokes stamped from sheet metal and comprising a body portion to embrace a spoke and having apertures for the reception of securing means, and a plate offset from said body portion and having apertures for the reception of means to secure it to a felly, said body portion and plate being bendable at their point of union and the body portion having a horizontal portion insertable beneath the end of the spoke.

1,452,909. METHOD OF ADJUSTING GLASSES, SPECTACLES, AND THE LIKE. ALBERT E. COVELLE, West Medford, Mass. Filed Nov. 8, 1921. Serial No. 513,690. 5 Claims. (Cl. 88—20.)



1. That improvement in the process of adjusting spectacles, glasses and the like, which consists in restricting the vision of each eye of the individual being fitted substantially to the optical center of the respective lenses, and then adjusting the lenses until the individual, with his vision so restricted, sees the same field of vision with each eye.

1,452,910. CHATTERLESS LUG AND PEDAL-SHAFT SUPPORT. OSCAR W. GORENFLO, Buffalo, N. Y. Filed Mar. 23, 1922. Serial No. 546,096. 8 Claims. (Cl. 188—249.)



5. As a new article of manufacture, a transmission band lug for planetary type transmissions comprising a bifurcated member having a counterbore, and a bearing washer located in said counterbore and apertured to fit on the pedal shaft.

1,452,911. HIGH CHAIR. MARTIN GRONSDAHL, Congress, Saskatchewan, Canada. Filed Mar. 16, 1922. Serial No. 544,374. 1 Claim. (Cl. 155—181.)



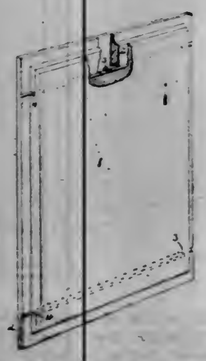
A chair attachment comprising uprights, end members having forked members pivotally mounted on the lower rear sides of the end members, a transverse rung connecting the end members near their upper ends, the end members having their upper edges notched adjacent said uprights, and a detachable tray having depending brackets at the ends, lateral projections at the rear side of said tray to engage in said notches and to bear against the rear faces of said uprights, and openings in the tray at the rear of said brackets to receive the said uprights.

1,452,912. PLOW FOR PLANTING POTATOES. WILLY HARTENSTEIN, Darmstadt, Germany, assignor to Josephine Aman, Rutherford, N. J. Filed Nov. 15, 1920. Serial No. 424,332. 5 Claims. (Cl. 221—118.)



1. A receptacle having a main and an auxiliary compartment, a pocketed drum rotating in open communication with both compartments, and means in both compartments for stripping the excess potatoes from the pockets of the drum.

1,452,913. CABINET-DOOR. EARL V. HUGHES, Andrews, Ind., assignor to Wasmuth-Endicott Company, a Corporation of Indiana. Filed Aug. 31, 1921. Serial No. 497,129. 2 Claims. (Cl. 20—35.)



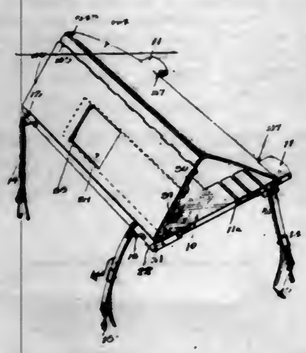
1. In a cabinet door comprised of a wooden slab having a transverse groove in each end and corresponding wooden cleats secured therein, a flat metallic strip positioned in each groove at the base thereof and being concealed therein by the corresponding wooden cleat, the ends of said strip terminating respectively within the slab a short distance from the corresponding ends of said groove.

1,452,914. BUCKLE. WILLIAM E. JAMES, St. Louis, Mo. Filed Feb. 9, 1922. Serial No. 535,211. 1 Claim. (Cl. 24—182.)



The improvement in buckles, comprising a flattened coiled spring and body having a terminal loop and formed of a single wire; the end of said wire opposite to said loop serving as a base for a buckle frame and tongue, and the interior of the body being of greater width than the belt whereon the buckle is used, and serving as a sheath for the end of the belt engaged by said buckle.

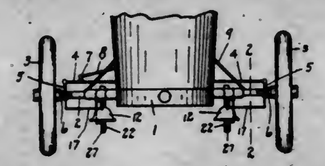
1,452,915. SUPPORT FOR INVALIDS. GEORGE KENNEDY, Covington, La. Filed July 14, 1922. Serial No. 575,035. 4 Claims. (Cl. 5—327.)



1. A support for invalids including a base having bars extending therefrom, means cooperating with the base and bars for securing them in position, a plate, means for pivotally connecting one end of said plate to said base, said plate having an opening therein, a closure for said opening comprising a sliding panel, guides carrying said sliding panel, a handle for operating said sliding panel, a second plate having a curved portion, a hinge for connecting the curved portion to the first plate, said bars having series of inclined notches cooperable with the free end of said second plate, the free end of said second plate being cut away adjacent each side to provide shoulders engageable with the bars for reinforcing the second plate and preventing lateral displacement thereof.

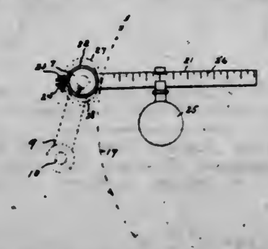
1,452,916. DIRIGIBLE AUTOMOBILE LAMP DEVICE. CHARLES E. KISTNER, Cincinnati, Ohio. Filed June 20, 1921. Serial No. 479,106. 7 Claims. (Cl. 240—45.2.)

1. In a dirigible automobile lamp device of the character described, steering mechanism, lamps rigidly connected to the automobile frame, shutters associated with each of said lamps and mounted to swing at the front middle point of said lamps, means upon which said shutters are mounted capable of being moved upwardly or downwardly to raise or lower the shutters to fit lamps mounted at various heights, means for locking the last mentioned means in variable vertical position, and means between the means upon which said shutters are



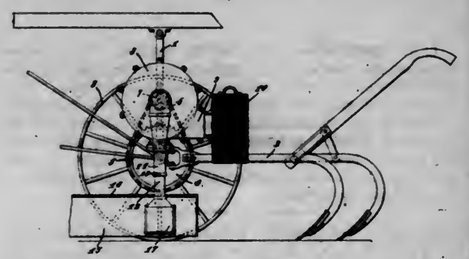
mounted and the inner hub of the wheels for forcing said shutters to automatically shift so that the light rays will be thrown in the path of the automobile.

1,452,917. LENS-GRINDER ATTACHMENT. JOSEPH J. KOVACS, Orange, N. J. Filed July 1, 1920. Serial No. 393,294. 1 Claim. (Cl. 51—101.)



An attachment for lens edge grinders comprising an arm having clamping means at one end thereof for rigidly but adjustably securing said arm in horizontal relation to the rocking frame of the lens grinder, and a weight adjustably suspended from said arm whereby the edge of a lens held upon said rocking frame may be caused to bear with uniform yielding pressure upon a grindstone during a complete revolution of said lens.

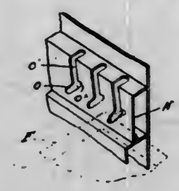
1,452,918. INSECT DESTROYER. CICERO HAMILTON LA CROIX, Bannister, Tex. Filed Mar. 9, 1921. Serial No. 450,986. 2 Claims. (Cl. 43—140.)



1. An insect destroying attachment for cultivators and the like comprising a hood open at its front, rear and bottom and increasing in area toward its front end, oppositely disposed suction heads within the hood near its rear end, said heads being arranged adjacent the sides of the hood and facing each other, a foraminous receiver, and means for creating suction through the hood and heads and directing the air currents into the receiver.

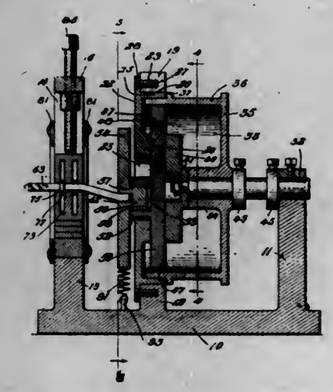
1,452,919. ACCOUNT-FILING CABINET. WILLIAM T. MCGRAW, Detroit, Mich. Filed Feb. 14, 1921. Serial No. 444,790. 2 Claims. (Cl. 45—2.)

1. In a filing cabinet, the combination with a casing, of a series of trays arranged within said casing in stepped relation, pintles projecting from each tray forming hinged members therefor and pressed sheet metal members secured to the inner walls of the casing, said members having spaced slots extending transversely thereof for en-



gaging the pintles, and the member on one side having entrance slots extending obliquely from said spaced slots for said pintles, said entrance slots intersecting the spaced slots intermediate the ends thereof to prevent accidental disengagement of the pintles.

1,452,920. MULTIPLE-DRILL MACHINE. JOHN MCLELLAN, Providence, R. I., assignor, by mesne assignments, to Multiple Drilling Machine Company, a Corporation of Rhode Island. Filed Aug. 4, 1921. Serial No. 489,663. 1 Claim. (Cl. 77—22.)

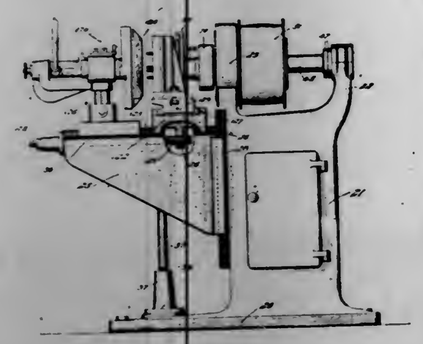


In a multiple spindle drilling machine, a base, an annular support, a retaining plate upon the support provided with a central orifice, a standard on the base, a spindle on the standard, a pulley on the spindle extending within the annular support and provided with an eccentric seat, a driving disk loosely mounted in the eccentric seat in slidable contact with the retaining plate, a thrust disk upon the spindle slidably engaging the driving disk, a boss on the driving disk projecting through the orifice, a driving disk detachably mounted on the boss exterior of the retaining plate provided with drill sockets, a tool holder support on the base adjacent the first support, a tool holder upon the second support, and drills comprising bodies rotatably mounted in the holder, and offset ends in the sockets.

1,452,921. MULTIPLE-DRILL MACHINE. JOHN MCLELLAN, Providence, R. I., assignor, by mesne assignments, to Multiple Drilling Machine Company, a Corporation of Rhode Island. Filed May 9, 1922. Serial No. 559,575. 13 Claims. (Cl. 77—22.)

1. In a multiple spindle drilling machine, a bearing, a pulley provided with an eccentric bore journaled in the

bearing, a bushing in the bore having an eccentric bore, a spindle free to rotate in the bushing, a driving plate carried by the spindle provided with drill sockets, a tool



holder adjacent the plate, and drills comprising bodies rotatably mounted in the holder and offset ends free to rotate in the sockets.

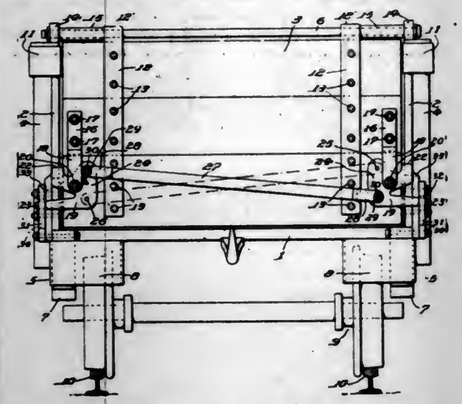
1,452,922. DISPENSING DEVICE. JOHN MASON, Philadelphia, Pa. Filed Oct. 26, 1920. Serial No. 419,671. 3 Claims. (Cl. 221—60.)



1. A dispensing device comprising a dispensing member provided with a dispensing outlet; and a closure member movable transversely relatively to said dispensing member to open and close said outlet; and securing means pivoted to one of the aforementioned relatively movable members and swingable transversely with reference to said closure member into and out of engagement with the other of the aforementioned relatively movable members, to lock said closure member with reference to said outlet or release it.

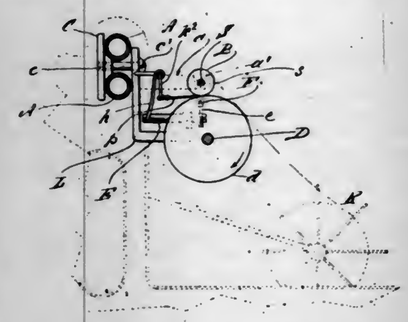
1,452,923. LOCKING DEVICE FOR MINE CARS. JOHN P. MILLER, Duryea, Pa., assignor of one-half to Herbert S. Woodward, Carbondale, Pa. Filed Jan. 26, 1920. Serial No. 353,940. 5 Claims. (Cl. 292—45.)

1. In a locking device for mine car doors, the combination of slotted locking plates fixed to the sides of said mine car adjacent the ends thereof, a pair of locking latches pivotally mounted on said door adjacent said plates and operative in planes transverse to said plates, said latches comprising means adapted to engage in the slots of said plates for normally maintaining said door in closed position, a link connecting said latches, said link having one end pivoted to one latch on one side of a plane passing through the axes of the pivots of said latches and its other end pivoted to the other latch on the opposite side of said plane, whereby an operating



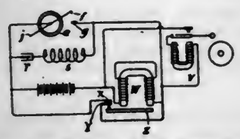
movement of either latch will be imparted by said link to simultaneously similarly operate the other of said latches.

1,452,924. STOP MOTION FOR BOBBIN WINDERS. PHILIP NATHANSON, Allentown, Pa. Filed Apr. 15, 1922. Serial No. 552,892. 4 Claims. (Cl. 242—39.)



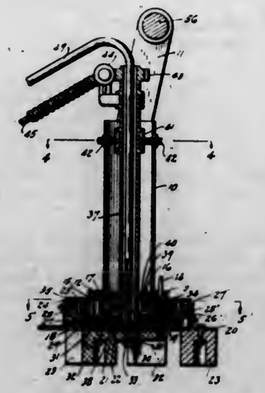
1. In combination with bobbin spindle drive mechanism of the character designated, an automatic stop device comprising a rock lever, a rotatable yarn mass feeler mounted on said rock lever, and a brake plate connected therewith by intermediate means and adapted to be protruded thereby between the spindle drive wheel and the spindle head by means of the accumulation of yarn mass on the bobbin, substantially in the manner and for the purpose described.

1,452,925. WIRELESS TELEGRAPH CALLING DEVICE. WILLIAM HOCKLEY NOTTAGE and THOMAS DIXON PARKIN, Chelmsford, England, assignors to The Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Dec. 18, 1920. Serial No. 431,599. 6 Claims. (Cl. 250—2.)



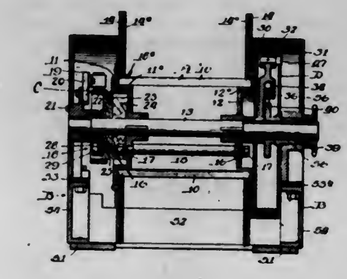
1. In a wireless telegraph timing mechanism, a spring controlled balance wheel oscillated by an electromagnet the circuit of which is interrupted by the oscillations of the wheel, substantially as described.

1,452,926. POLISHING MACHINE. ANTHONY ORLANDO, Chattanooga, Tenn. Filed Feb. 2, 1922. Serial No. 533,602. 8 Claims. (Cl. 51—177.)



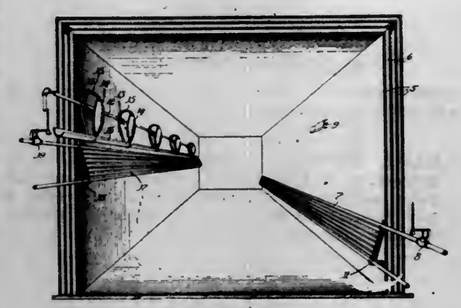
1. In a polishing machine, co-axial plates, polishing elements carried by the plates, planetary gearing connected with the plates and including a sun gear connected with one of the plates, an orbit gear connected with the other of the plates and a plate upon which the planet gears are mounted, a handle member, means connected with the handle member for preventing rotation of the plate upon which the planet gears are mounted and means extending longitudinally of the handle for driving said orbit gear.

1,452,927. GATHERING REEL. GLENN W. PACKER, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 30, 1920, Serial No. 400,251. Divided and this application filed Nov. 20, 1920. Serial No. 425,302. 2 Claims. (Cl. 173—367.)



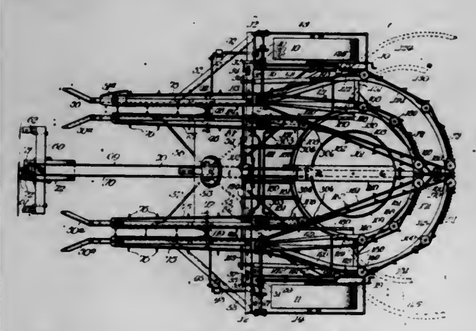
2. In a device of the class described, a reel provided with a conductor cable, a shaft for said reel, a support for said shaft adjacent one end of the reel, two end plates laterally spaced apart on said shaft, having annular shoulders concentric therewith, and flanges extending outwardly beyond said shoulders, a plurality of longitudinally disposed frame members of substantially equal length having their end portions abutting said flanges and seated on said shoulders, a collector ring carried at one end of said reel having electrical connection with said conductor cable, said collector ring comprising an annular contact ring and a plurality of radially extending lugs, insulating means interposed between said contact ring and said reel, an annular insulating disc provided with notches on the under surface thereof adapted to register with the lugs on said ring, a contact member for said collector ring mounted on said supports and securing means extending thru said end plates and said insulating disc to clamp said end plates, frame members and collector ring together as a unitary structure.

1,452,928. DRYING KILN. ELMER E. PERKINS, Chicago, Ill. Filed Mar. 5, 1921. Serial No. 449,798. 8 Claims. (Cl. 34—3.)



3. A drying kiln, comprising a heat insulated room, heating means disposed at one side of said room near the floor, and means spaced from the floor remote from said heating means for washing the air in said room, said last-mentioned means including a water supply pipe, a plurality of spray nozzles connected thereto, and means for collecting the water delivered by said nozzles.

1,452,929. CORN HARVESTER AND SHOCKER. DARIUS T. PHILLIPS, Chicago, Ill., assignor of one-half to Charles G. Williams, Chicago, Ill. Filed Mar. 15, 1919. Serial No. 282,941. 18 Claims. (Cl. 56—83.)



1. In a corn harvester and shocker, the combination with cutting and gathering devices, of shock forming and packing devices comprising a collapsible core, and a frame surrounding the core and provided with a plurality of packing chains adapted to receive the incoming corn from the cutting and gathering devices.

1,452,930. MEANS FOR PEELING CITRUS FRUIT. RALPH POLK, Greenwood, Ind. Filed Dec. 19, 1922. Serial No. 607,844. 2 Claims. (Cl. 146—14.)

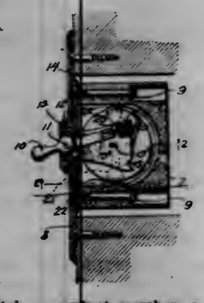
1. A knife for removing the peel of citrus fruit, comprising a blade curved to substantially conform to the

contour of the whole fruit and having a cutting edge and provided with a handle by which the blade may be



grasped, the curve of said blade commencing at the tip and extending substantially to the handle.

1,452,931. ELECTRIC SWITCH. CHARLES S. PRICE, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,537. 7 Claims. (Cl. 200—10.)



1. In a switch, a contact member, a rotatable ratchet member, a stepping pawl for driving said ratchet member and said contact member, a holding pawl operative to prevent both overthrow and retrograde movement of said ratchet member, said holding pawl being controllable by said stepping pawl.

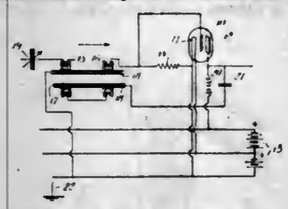
1,452,932. CONNECTING ROD FOR PISTONS. CHARLES A. G. PRITCHARD, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 3, 1921. Serial No. 519,617. 13 Claims. (Cl. 74—108.)



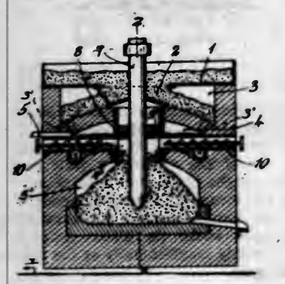
1. In a device of the class described, the combination of a piston rod having a head, a piston, a slotted socket cooperating with said head and fastened to said piston, and means for closing the slot in said socket.

1,452,933. SELECTIVE AMPLIFYING APPARATUS. MICHAEL IDVORSKY PUPIN, Norfolk, Conn., assignor to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 10, 1918, Serial No. 257,571. Renewed Sept. 14, 1922. Serial No. 588,287. 27 Claims. (Cl. 179—171.)

1. A multi-step selective amplifying apparatus comprising several units connected in cascade, each of said units including a circuit containing a high resistance conductor, a control device excited by an electrical reaction of said circuit, a source of electric energy, and a negative resistance compensator controlled by said device and which by conveying power to said circuit from said source increases said exciting electrical reaction.

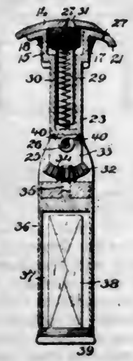


1,452,934. ZINC-SMELTING FURNACE. BJÖRN RÆDER, Kykkelsrud, Askim Station, Norway, assignor to himself and Aktieselskapet Zink, both of Kykkelsrud, Askim Station, Norway. Filed Feb. 5, 1920. Serial No. 356,515. 6 Claims. (Cl. 204—64.)



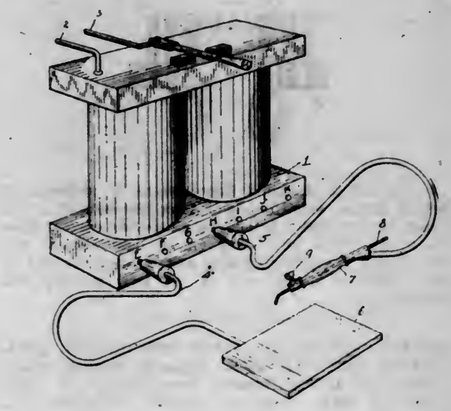
1. A furnace of the character described comprising essentially three superposed communicating chambers, the uppermost chamber constituting a preliminary drying chamber, the intermediate chamber constituting a preheating chamber, and the bottom chamber constituting a reduction chamber, said drying chamber being constructed to be heated by the combustion gases from the intermediate chamber, means for heating the last-named chamber, and an electrode extending down through the two uppermost chambers into the bottom chamber for the purpose of electrically heating the latter.

1,452,935. SAFETY RAZOR. JACOB SCHICK, New York, N. Y. Filed July 18, 1921. Serial No. 485,640. 12 Claims. (Cl. 30—12.)



11. A safety razor comprising means for holding a blade in shaving position, a magazine for holding a stack of blades, and means for feeding a blade from said stack to shaving position in the holding means.

1,452,936. METHOD OF AND APPARATUS FOR WELDING. FRANK J. SCHUMAN, Cleveland Heights, Ohio, assignor to The Allan Manufacturing and Welding Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,168. 3 Claims. (Cl. 219—8.)



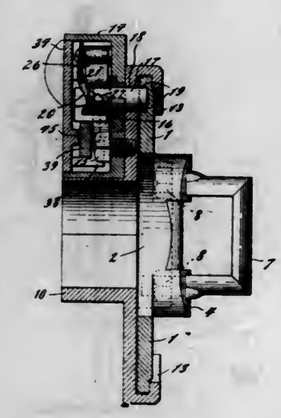
1. In a method of filling recesses in iron articles, the steps which consist in establishing a closed electrical circuit through a nickel pencil and the wall of such recess until a drop of the nickel has melted and deposited, and then moving such pencil to a new point on such wall and repeating such operation.

1,452,937. SUCKER-ROD-CONNECTING MEANS. ERNEST J. SHAFFER, Tulsa, Okla. Filed Dec. 24, 1921. Serial No. 524,688. 3 Claims. (Cl. 294—86.)



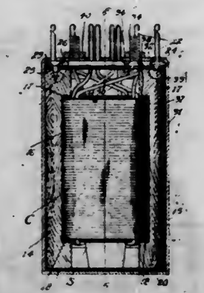
1. A device for recovering broken sucker rods from well tubing consisting of an elongated body portion having a threaded bore and slotted longitudinally at points spaced apart circumferentially of the bore thereby to provide resilient parts capable of yielding radially, said parts being arranged to grasp between them the broken end of a sucker rod and hold the same firmly by reason of the inherent resiliency of said parts and the presence of the thread.

1,452,938. LOCKING DEVICE. ERNEST SIMON, New York, N. Y., assignor to Axle Lock Corporation, a Corporation of New York. Filed Feb. 24, 1921. Serial No. 447,445. 18 Claims. (Cl. 70—129.)



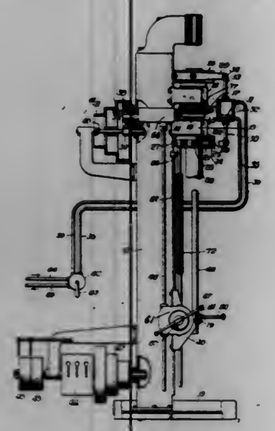
1. In a lock for vehicles having a steering wheel and a relatively stationary steering column, the combination of a disc, means for securing the disc to the spokes of the steering wheel for rotation therewith, a split element having means on each part overhanging the disc to prevent separation of the element and disc but permit of their relative rotation, means for clamping the parts of the split element together and to the steering column, and a locking device carried by one of the parts settable to lock the disc and split element against relative rotary movement.

1,452,939. COIL. CHARLES SPARKS, Oak Park, and WILLIAM G. SHULL, Chicago, Ill., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 9, 1920. Serial No. 350,316. 18 Claims. (Cl. 175—360.)



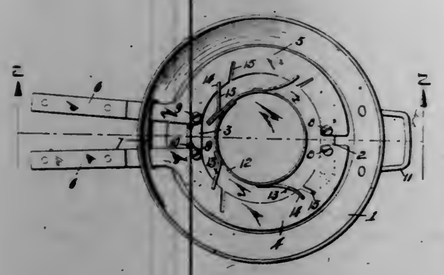
14. An inductorium of the character described including a spool provided with a plurality of windings and having a rectangular core of magnetic material, composed of a plurality of laminations, each lamination having two oblong openings opposite each other, the portion between said openings extending through the opening in said spool, a pair of rectangular plates, four posts connecting said plates together, and recessed portions cut in said posts adapted to receive the heads of said spool to maintain said coil in position, the said rectangular core for said coil being adapted to extend between the two sets of two posts to maintain said core in position.

1,452,940. BORING MACHINE. CHARLES STECHER, Chicago, Ill. Filed Apr. 6, 1918. Serial No. 227,118. 2 Claims. (Cl. 77—4.)



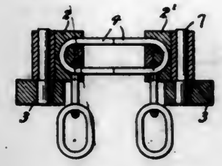
1. In a machine of the class described, the combination of a vertical column, bearings carried by the upper portion of said column, a hollow spindle disposed vertically in said bearings, chucking mechanism carried by said spindle, a tool carriage mounted on the lower portion of said column, means for rotating said spindle, clamping devices carried by said carriage for rigidly holding a tool in axial alignment with said spindle, mechanism for moving said carriage vertically on said column, horizontally disposed studs carried by said carriage supporting said clamping devices and permitting movement thereof, together with the tool held thereby laterally of the column to clear said spindle, return movement of said clamping devices on said studs again bringing said tool into axial alignment with said spindle, and retaining devices for holding said clamping devices on said studs in said alignment.

1,452,941. FRUIT-JAR HOLDER. WALTER C. SZYKOWNY, Toledo, Ohio. Filed May 25, 1922. Serial No. 563,744. 4 Claims. (Cl. 81—3.3.)



1. In a device of the class described, a pair of article gripping jaws mounted for opposed pivotal movements and having a set of notches provided in their inner edges, a compressible article engaging ring disposed between the jaws and having fingers projecting therefrom for seating in the notches in the jaws whereby a contraction of the jaws effects a contraction of the ring.

1,452,942. CHAIN-LINK WELDING. ELIHU THOMSON, Swampscott, Mass., assignor to Thomson Electric Welding Company, Lynn, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1921. Serial No. 452,665. 4 Claims. (Cl. 219—5.)



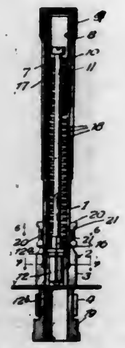
1. The herein described improvement in processes of making chains, consisting in heating the ends of the U blanks for two chains by passing an electric current from one to the other while they are in light contact and immediately thereafter forming and welding the end of each U-shaped blank each in its own welding and forming die.

1,452,943. CONVEYER CHAIN FOR DRYING APPARATUS AND THE LIKE. CHARLES WAGNER, Grantwood, and AUGUST HORMEL, Jersey City, N. J. Filed Mar. 15, 1921. Serial No. 452,632. 5 Claims. (Cl. 198—134.)



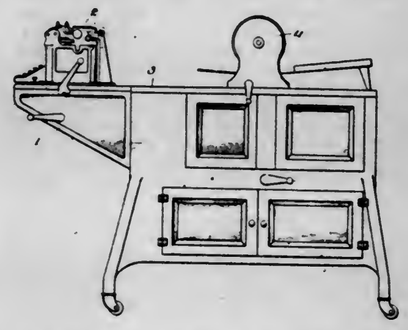
1. In a conveyer chain, the combination with a series of links having means adapted to engage a sprocket-wheel, of a series of web members connected to said chain and adapted to permit relative pivotal movement of the links in one direction from a rectilinear line but to prevent movement of such links in the opposite direction beyond such rectilinear line.

1,452,944. DEVICE FOR TESTING FIBER BOARD. JOHN W. WEBB, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,439. 7 Claims. (Cl. 265—12.)



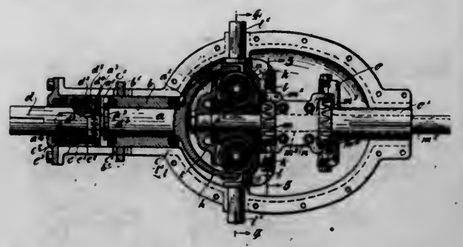
1. A testing device of the character described and comprising a shank, a transversely slotted base block, a spring-stressed plunger slidingly mounted in said shank and provided with means for indicating the stress of the spring, and a recessed clamping plug in alignment with said plunger, said plug being provided with a scale indicating the distance between the opposed clamping faces.

1,452,945. TYPESETTING MACHINE. BESTER R. WEBSTER, Chicago, Ill., assignor to Chester A. Macomic, Chicago, Ill. Filed Dec. 27, 1921. Serial No. 525,172. 9 Claims. (Cl. 276—3.)



1. In a typesetting machine of the class described, the combination with a typewriting machine, of type-selecting mechanism, said type-selecting mechanism comprising a plurality of differentially adjustable selecting bars, a guiding member for the keys of the typewriting machine, said guiding member being equipped with plungers for coacting with the keys of the typewriting machine and the type-selecting mechanism, and means for shifting said guiding member and plungers into and out of cooperation with the typewriter keys.

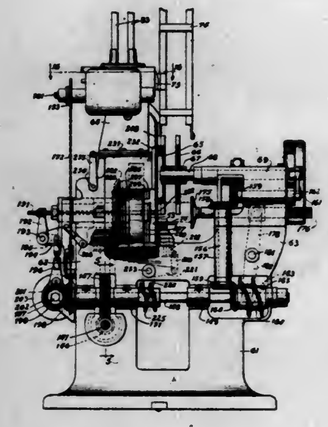
1,452,946. TRANSMISSION DEVICE. CARL W. WEISS, Brooklyn, N. Y. Filed Mar. 8, 1920. Serial No. 364,202. 5 Claims. (Cl. 74—26.)



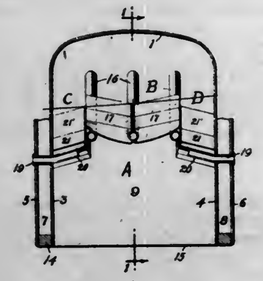
1. A power transmission device comprising a support, a rotating body supported thereby, a second rotating body having a spherical bearing surface for co-operation with the first mentioned body, a shaft carrying said second rotating body, a rotatable sleeve member, said shaft and said sleeve member being formed with opposed surfaces with tapered recesses and rollers in said recesses.

1,452,947. HORIZONTAL STATIONARY DOUBLE SEAMER FOR CANS. MAGNUS E. WIDELL, Maywood, and ARTHUR A. JAHR, Forest Park, Ill., assignors to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1920. Serial No. 424,697. 11 Claims. (Cl. 113—28.)

1. In a machine for seaming flanged can ends to flanged can bodies, the combination of a seaming head, a carrier rotating about a horizontal axis, means feeding non-circular can ends edgewise and downward and non-circular can bodies into said carrier, and means projecting said bodies endwise and thereby the can end into said seaming head for seaming.



1,452,948. FIRE-BOX-ARCH CONSTRUCTION. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, a Corporation of Delaware. Filed Oct. 18, 1920. Serial No. 417,665. 6 Claims. (Cl. 110—87.)

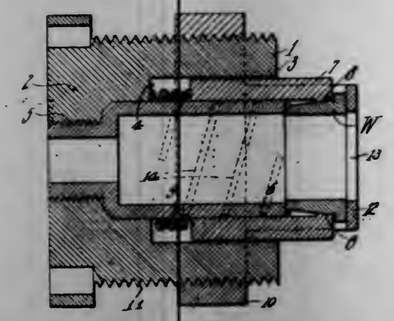


1. In a locomotive fire box provided with circulation tubes and an arch supported thereon, the combination with the side water legs of the fire box of a plurality of brick supporting members projecting into the fire box from said water legs and a plurality of bricks supported on said members independently of the circulation tubes, said bricks forming edge or side portions for the arch.

1,452,949. WORKHOLDER. IRVIN F. WOODROW, West Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Sept. 30, 1918. Serial No. 256,316. 1 Claim. (Cl. 279—8.)

A work holder comprising a body portion having a socket, an abutment member in said socket, means movably mounted on said abutment member to locate a piece

of work coaxial therewith, and a cap movable longitudinally of said body portion to clamp the work



against said abutment member, a portion of said cap being cut out to provide an aperture through which the work may be inserted and removed.

1,452,950. ADJUSTABLE DROPLIGHT SUPPORT. GEORGE W. ANDERSON, St. Louis, Mo. Filed July 24, 1922. Serial No. 577,042. 2 Claims. (Cl. 248—1.)



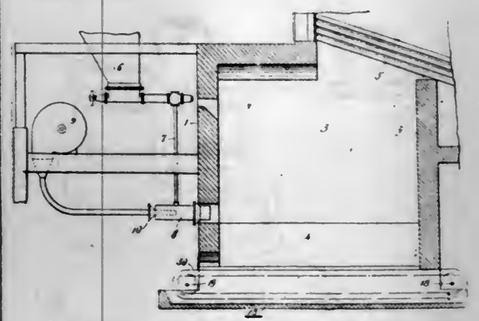
1. An adjustable drop light support comprising securing clamps adapted to be secured to a support, a plate hingedly carried by said securing clamps, a tube pivotally mounted on said plate, a screw threaded sleeve located in said tube, a dog located in said tube adapted to contact with the plate, a screw threaded rod extending through said sleeve and adapted to contact with said dog, said rod and dog adapted to hold the tube against movement on the second mentioned plate, and a cord holding clamp detachably and adjustably located on said rod.

1,452,951. WRENCH. GEORGE R. BAKER, Joliet, Ill., assignor to William E. Pratt, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,630. 1 Claim. (Cl. 81—134.)



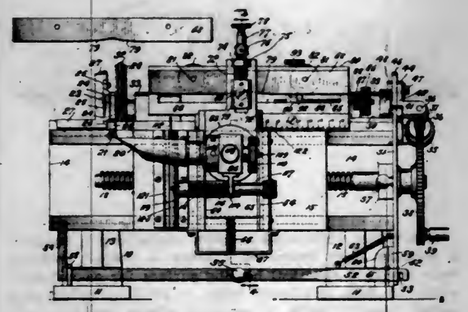
In a wrench of the class described, a body member having a jaw fixed thereon and a trough-shaped portion, a rack in the bottom of the trough-shaped portion of the body member, an adjustable member comprising a jaw, and a sleeve surrounding the trough-shaped portion of the body member and adjustable thereon, a pawl, trunnions on the pawl, means on the adjustable member receiving the trunnions and affording movement thereto longitudinally of the adjustable member, an eccentric journaled in the adjustable member and engaging the pawl to move the latter longitudinally of the adjustable member, a handle on the eccentric outside the adjustable member.

1,452,952. PULVERIZED-FUEL FURNACE. HENRY G. BARNHURST, Allentown, Pa., assignor to Fuller Engineering Company, a Corporation of Pennsylvania. Filed Feb. 17, 1919. Serial No. 277,411. 4 Claims. (Cl. 110—28.)



1. A furnace of burning pulverized fuel, comprising the combination of a relatively large combustion chamber, means for feeding a mixture of pulverized fuel and air into the combustion chamber, an endless conveyor mounted to travel through the bottom of the combustion chamber, shafts for supporting the conveyor, means for driving one of the shafts to cause travel of the conveyor to carry residues of combustion deposited thereon out of the combustion chamber, and means at the front and rear of the furnace contacting substantially closely with the conveyor and preventing a connection between the interior of the furnace and the atmosphere.

1,452,953. MACHINE FOR FACING MOUTHPIECES OF MUSICAL WIND INSTRUMENTS. EUGENE BERCIOUX, New York, N. Y. Filed July 11, 1921. Serial No. 483,727. 10 Claims. (Cl. 90—24.3.)

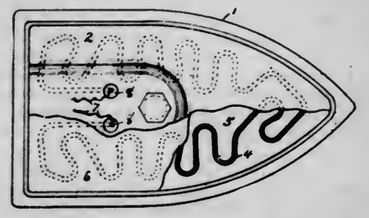


1. In a machine of the character desoribed, a main body-frame, a main vertically disposed carriage mounted on the front thereof and movable longitudinally along the same, a vertically movable plate carried by said carriage spring-pressed upwardly and carrying a pin to cooperate with a templet, a stationary templet against which said pin presses and slides, means carried by said plate for holding a mouth-piece to be faced and a reciprocatory cutter to move transversely across the face of said mouthpiece as the same is gradually fed thereto due to the movement of said carriage and said vertically movable plate, the presentation of the mouth-piece

to the cutter being under the control of said templet, and mechanism for holding and reciprocating said cutter.

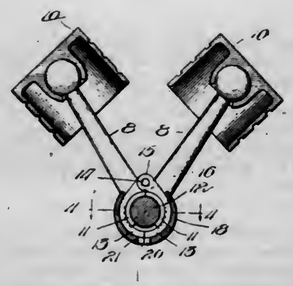
10. A machine as in claim 1 having a screw-shaft connected with said main carriage for moving the same forwardly and backwardly along said body frame and provided on one end with a gear-wheel carrying a crank-handle, a power shaft, means connecting said power shaft with said gear wheel for operating said gear wheel and screw-shaft by power and means for disconnecting said power shaft from said gear wheel when said screw shaft is to be operated manually, the means connecting the power shaft with said gear wheel being a power worm wheel on the end of said power shaft, a pivotally hung shaft having on one end a worm wheel in mesh with said power worm wheel and on its other end a worm to be placed into or out of mesh with said gear wheel according as said shaft is swung downwardly or upwardly, means for latching said pivotally hung shaft in its down position so that it may transmit power to said gear wheel and a spring for turning said shaft upwardly when freed by its latch, leaving said gear wheel for manual operation.

1,452,954. PACK FOR ELECTRICAL HEATING ELEMENTS. WILLIAM A. BRAUN, Dover, Ohio, assignor to Dover Manufacturing Company, a Corporation of Ohio. Filed Apr. 18, 1922. Serial No. 555,257. 2 Claims. (Cl. 219—25.)



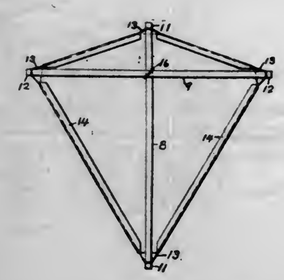
2. In an electrically heated unit having a resistance member, a pack encasing the member and being composed of pulverulent refractory material, clay and boracic acid.

1,452,955. PISTON AND CRANK CONNECTION FOR ENGINES. WILLIAM H. CALLAN and THEODORE P. KIMMAN, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 21, 1922. Serial No. 530,799. 16 Claims. (Cl. 74—17.)



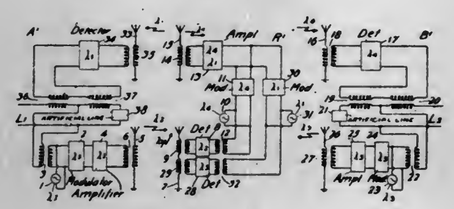
1. In a device of the class described, the combination of a pair of connecting rods cooperating with a single crank, bearing means on the ends of the rods, a device having relatively movable parts encircling said bearing means, and a resilient ring around said device.

1,452,956. KITE. ARTHUR W. CASH, Decatur, Ill., assignor to Harvey A. Sellers, Decatur, Ill. Filed Sept. 19, 1922. Serial No. 589,192. 2 Claims. (Cl. 244—22.)



1. In a kite having vertical and crosswise frame members a resilient metallic loop clamping member substantially rectangular in form adapted to slidably and loosely encompass the two frame members when in parallel partially assembled form, and tightly clamp said members against free sidewise movement of either one when said crosswise member is in full extended predetermined position when full assembled.

1,452,957. HIGH-FREQUENCY SIGNALING. EDWIN H. COLPITTS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1916. Serial No. 116,447. 5 Claims. (Cl. 250—6.)

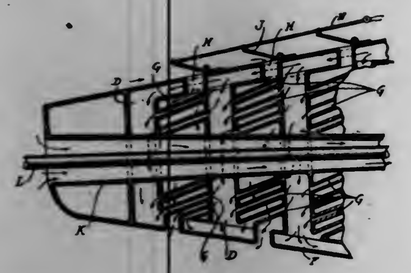


1. In combination, two widely separated stations each comprising a two-wire two-way telephone line, a balancing network simulating the impedance of said line connected to a terminal thereof, means including an antenna for transmitting high frequency waves modified in accordance with telephone currents received over said line, means, including a second antenna spaced from said first named antenna and differently tuned, for receiving different frequency waves modified in accordance with telephonic variations and for impressing corresponding telephonic currents on said line, said transmitting means and said receiving means being conjugately connected with respect to each other to said line and said network, and a two-way radio repeating apparatus located between said two widely separated stations for repeating energy transmitted from each of said stations to the other of said stations.

1,452,958. RADIATOR FOR AIRPLANE ENGINES. EDWARD T. CURRAN, Detroit, Mich. Filed Aug. 17, 1918. Serial No. 250,277. 8 Claims. (Cl. 257—125.)

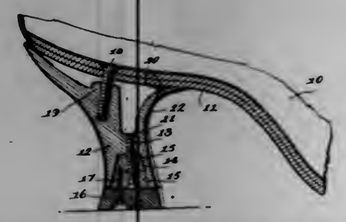
1. In a radiator, an upper water space, a lower water space, the outer surfaces thereof being at an angle to each other so that if prolonged they would meet in a

frontal direction, water legs connecting the two water spaces, water tubes passing diagonally from one water space to the other and connecting with the water legs,



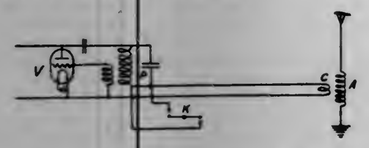
passageways in the water space through which air may pass transversely through the radiator and means for controlling the passage of air therethrough.

1,452,959. SHOE HEEL. GIUSEPPE DI DIO, New York, N. Y. Filed Jan. 9, 1922. Serial No. 527,899. 1 Claim. (Cl. 36—40.)



A shoe heel comprising a hollow body having an open upper end presenting the rear a relatively deep recess with its marginal edge inclining from the back to the breast of the heel body, said heel body having a post inclining forwardly from the rear wall of the body at substantially right angles to the plane of the upper edge of the body and at the center thereof, and a screw threaded axially in the post and adapted to engage through the sole of the shoe for binding the same evenly about the edge of the heel body, said post terminating below the plane of the upper edge of the heel body to permit the sole to extend downwardly into the recess in the top of the heel body and settle against the upper edge thereof at all sides, the breast portion of the heel body at its upper end having an opening therein adapted to receive an anchoring device subsequent to the clamping of the screw.

1,452,960. WIRELESS TRANSMITTER. WILLIAM THEODORE DITCHAM, Twickenham, England, assignor to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Dec. 18, 1920. Serial No. 431,583. 4 Claims. (Cl. 250—19.)



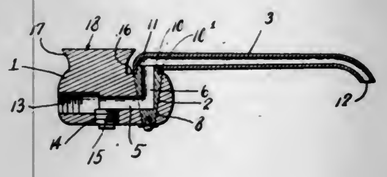
1. In radio transmitting apparatus, a vacuum tube oscillator, provided with inductance in its output circuit, an antenna having inductance in its circuit, said inductances being so constructed and arranged as to be substantially without effect on each other, an inductance connected in one of said circuits and located so as to be coupled to said other circuit, and means for short-circuiting said last named inductance.

1,452,961. GUTTIFORM SECTION. CLAUDIUS DORNIER, Friedrichshafen, near Berlin, Germany, assignor of one-half to Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,551. 4 Claims. (Cl. 244—31.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A stream lined structural member comprising in combination a hollow load carrying front portion with rearwardly projecting flanges and a non-load carrying fairing portion secured to said flanges.

1,452,962. VALVE. HARRY H. EMMONS, Alliance, Ohio. Filed Oct. 28, 1921. Serial No. 511,120. 1 Claim. (Cl. 251—95.)

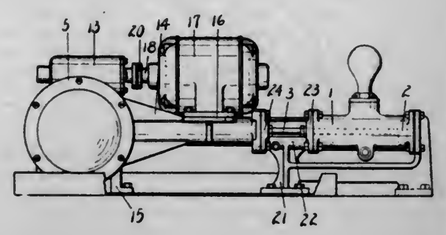


In combination, a valve casing, a valve rotatable therein, a nozzle connected with and adapted to be used as a handle or lever in turning the valve, said nozzle adapted to open the valve when in extended or operative position and to close the valve when in a folded or out-of-the-way position and a raised shoulder or boss formed on the top of the valve casing, said boss provided with a flat upper face disposed in a plane above that of the upper edge of the nozzle and having apertured lugs disposed at opposite edges thereof.

1,452,963. POWER PUMP. ROLAND J. FAIRCHILD, Kalamazoo, Mich., assignor to National Water Lift Co., Kalamazoo, Mich. Filed June 4, 1921. Serial No. 474,951. 4 Claims. (Cl. 103—57.)

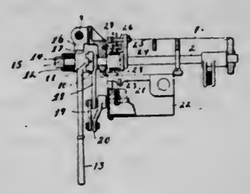
1. In a power pump, the combination with a cylinder, piston, and a piston rod, of a gear box provided with a base and having a removable side plate and an inwardly projecting bearing on its wall opposite said side plate, there being a removable cap for the outer end of said

bearing, said gear box also having a worm housing extension at its top, and a connecting rod and crosshead extension at the front, a base for said cylinder provided with a yoke having a cylinder head at one end and a head for said crosshead extension at the other, said heads being provided with packings for said piston rod, a worm



gear mounted in said bearing in said gear box, a connecting rod, a crosshead to which said piston and connecting rods are connected sliding in said extension, a motor mounted on said crosshead and connecting rod extension, and a driving worm to which the motor shaft is connected mounted in said worm extension of said gear box to coact with said worm gear.

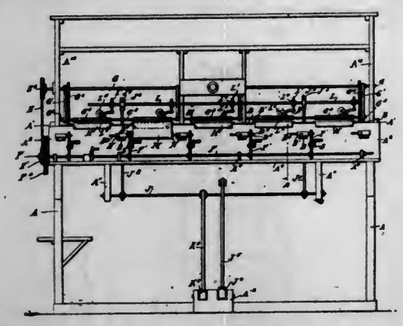
1,452,964. HOISTING MECHANISM. ARTHUR FALKENAU, New York, N. Y., assignor to Gillis & Geoghegan, New York, N. Y., a Firm. Filed Apr. 9, 1921. Serial No. 459,963. 5 Claims. (Cl. 192—142.)



1. In a mechanism of the character set forth, a screw-shaft, a nut arranged to travel thereon, an operating-shaft having a clutch member and connections to a switch, an operating-lever on said operating-shaft, having a clutch member adapted to engage said shaft clutch member to turn said operating-shaft, means actuated by said nut for disengaging said clutch members, and means for automatically returning said operating-shaft.

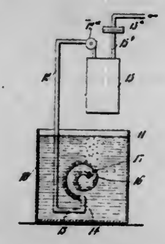
1,452,965. APPARATUS FOR WINDING MUSIC ROLLS. NUNEZ CLARENCE FERRIS, Brooklyn, N. Y., assignor to Elizabeth F. Boyle, Brooklyn, N. Y. Filed May 3, 1920, Serial No. 378,548. Renewed Sept. 22, 1922. Serial No. 589,917. 5 Claims. (Cl. 242—55.)

1. In an apparatus of the character set forth, a series of spool holders in axial alinement, each arranged to receive a spool, a shaft, means for driving the same, means for rotating simultaneously a plurality of spools and guiding sheets thereto, means for permitting of turning any of such spools in advance independently of



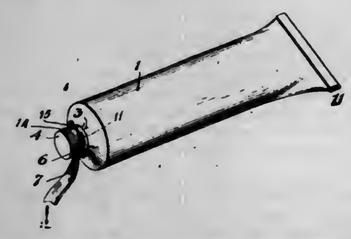
the others in initiating the winding operation, and suction means for freeing the sheets from dust during their passage through the apparatus.

1,452,966. AGITATOR. CROSBY FIELD, Yonkers, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y. Filed July 30, 1918, Serial No. 247,366. Renewed June 28, 1921. Serial No. 481,169. 6 Claims. (Cl. 259—99.)



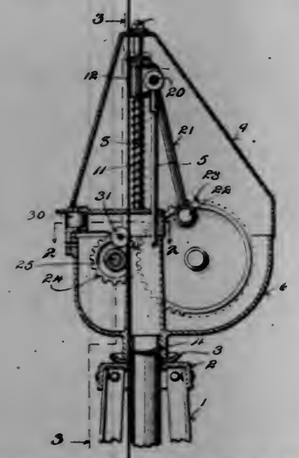
1. Agitating means consisting of a flexible tubular member, spring means carried by said tubular member, adapted to normally coil said tubular member, means for admitting pressure to said tubular member, said tubular member adapted to be moved proportionately as pressure is increased or diminished therein.

1,452,967. CLOSURE FOR TUBES. LOUIS A. FREEDMAN, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,302. 7 Claims. (Cl. 221—60.)



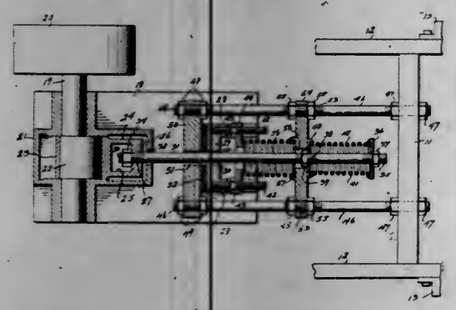
1. A device of the class described comprising a tube having a threaded end, a closure cap received on said threaded end, said cap having an opening, means on said cap for restricting movement of the cap on the threaded end, said means being removable to permit removal of the cap from the tube.

1,452,968. PUMP-OPERATING MECHANISM. MICHAEL N. FREEMAN, Racine, Wis., assignor to Freeman Manufacturing Co., Racine, Wis., a Corporation of Wisconsin. Filed Aug. 18, 1922. Serial No. 582,602. 2 Claims. (Cl. 74—14.)



1. In pump operating mechanism, parallel guide rods, a cross head slidable thereon, and springs on said guide rods and engaging said cross head for feeding lubricant to said cross head.

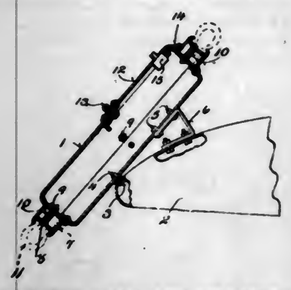
1,452,969. CONCENTRATING TABLE. CHARLES C. HEBBARD, Joplin, Mo., assignor of one-third to Edward H. Shackelford and one-third to Otto Ruhl, both of Joplin, Mo. Filed May 18, 1921. Serial No. 470,714. 23 Claims. (Cl. 74—14.)



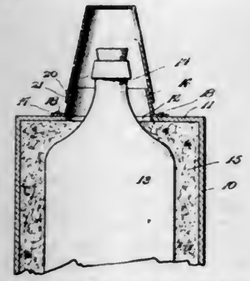
21. In a concentrator, the combination with a deck frame mounted for longitudinal reciprocation, of means urging the deck frame in one direction and power operated means operatively connected to the frame for intermittently retracting it against the urging means, and adjustable means permitting the retracting means to move rearward a predetermined distance before exerting any retraction on the frame.

1,452,970. LUGGAGE CARRIER AND TIRE RACK. CHARLES J. HEPTING, Milwaukee, Wis. Filed July 18, 1921. Serial No. 485,624. 1 Claim. (Cl. 224—29.)

In combination, a tire rack and luggage carrier comprising a closed receptacle, a wheel rim encircling the same, a hinged door for providing access to the interior of the receptacle, headed bolts extending through the rim and into the receptacle with the heads located exteriorly of the rim, nuts upon the inner end of said bolts and located within said receptacle, attaching means for securing the receptacle to the vehicle, and a lock for locking the hinged door, said headed nuts being removable radially outwardly and being adapted to be covered by a tire when carried upon said rim.

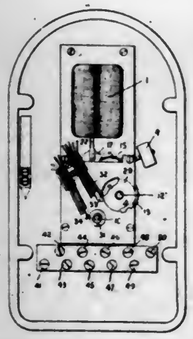


1,452,971. CARBOY. FRANK E. HODES, Denver, Colo. Filed Aug. 15, 1922. Serial No. 582,005. 1 Claim. (Cl. 215—12.)



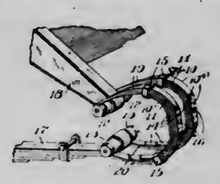
In a carboy, the combination of a casing having a top wall provided with an opening, a container within the casing having a neck projecting through said opening, a base ring mounted upon said wall to surround said opening and provided with a stud, and a removable cap slipped over the base ring and provided with a slot accommodating said stud locking the cap in position.

1,452,972. SIGNAL SYSTEM AND TRANSMITTER THEREFOR. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 12, 1918. Serial No. 249,460. 2 Claims. (Cl. 177—364.)



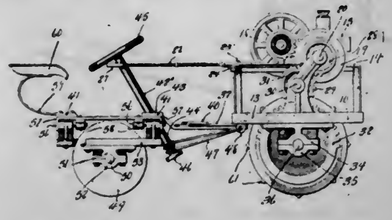
1. A transmitter such as described comprising in combination an electric generator, a controlling magnet, retard mechanism operated thereby, transmitting means comprising normally energized driving means therefor, restraining means for said transmitting means, a controlling cam for said restraining means arranged to be driven by said transmitting means but normally stationary, and releasing means for said restraining means, arranged to be operated by said retard mechanism upon deenergization of said magnet, said cam arranged to cause arrest of operation of said transmitting means in the event of reenergization of said magnet, connections for an external circuit and contact means operated concurrently with said transmitting means and arranged to reenergize said magnet during the operation of said transmitting means, in the event of breakage of said external circuit, and means for transposing the connections of said external circuit with the poles of said generator to thereby permit said magnet to be reenergized in the event of the grounding of said external circuit.

1,452,973. SHOCK-ABSORBER SPRING. THOMAS B. JENKINS, Richmond, Ind., assignor to Jenkins Vulcan Spring Company, Richmond, Ind., a Corporation of Indiana. Filed Aug. 3, 1922. Serial No. 579,344. 7 Claims. (Cl. 267—46.)



1. The combination with the body springs of a vehicle, of a pair of supplemental C-springs connected at their ends to the ends of the respective body springs of the vehicle, and having a portion of the back thereof flattened.

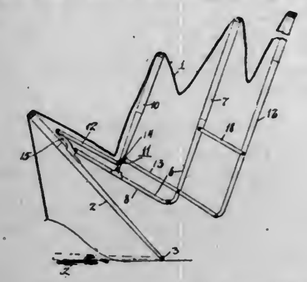
1,452,974. MOTOR-DRIVEN LAND ROLLER. WILLIAM KIPPENHAN, Allenton, Wis. Filed Mar. 28, 1922. Serial No. 547,390. 1 Claim. (Cl. 180—20.)



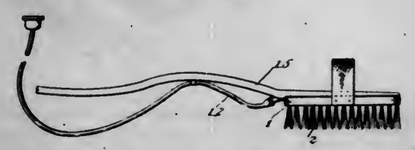
In a motor driven land roller, the combination of a front roller, a frame therefor, a rear frame pivoted to said front frame, a pair of rollers, a pair of trunnions on each of said rear rollers, a frame for each of said rear rollers secured to and permitting rotation of said trunnions, and means securing each of said last mentioned frames for pivotal movements in a transverse plane with respect to said rear frame.

1,452,975. TOP FOR VEHICLES AND THE LIKE. FRED K. LEWIS, Ashtabula, Ohio. Filed Jan. 11, 1919. Serial No. 270,709. 7 Claims. (Cl. 296—116.)

1. In a top for vehicles and the like, the combination of a main bow; a two-part articulated outrigger bow having its rear portion pivotally attached to said main bow; a lever pivotally attached to the forward portion of said outrigger bow and intersecting the same in the open position of the top; a second outrigger bow pivotally attached to the forward end of said lever, the rear end of the latter having a flexible linked connection with said main bow; and a supplemental bow pivotally attached to the rear portion of said first-named out-rigger bow and operatively connected with said lever through said linked connections.

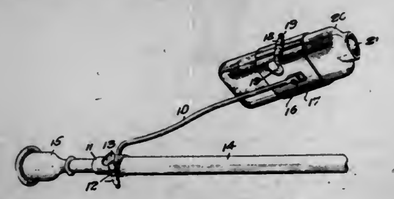


1,452,976. FOUNTAIN BATH BRUSH. EDWARD N. LICHTENSTEIN, Baltimore, Md. Filed Oct. 27, 1921 Serial No. 510,736. 3 Claims. (Cl. 15—128.)



1. In a device of the kind described comprising in combination, a brush back provided on its upper side with a converging wedge-shaped channel extending longitudinally from one edge thereof, the side walls of said channel being undercut, said brush back being further provided with an orifice opening from the lower face of said back into said channel, and a groove formed in the bottom wall of said channel and extending from one edge of the brush back and communicating with the orifice, a supply tube adapted to rest in said longitudinal groove, a rubber tube connected to said supply tube, a handle provided with a longitudinal groove, said handle being so constructed as to slide longitudinally within said converging wedge-shaped channel member to hold the brush and parts rigidly in position.

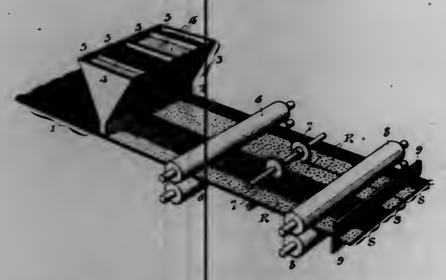
1,452,977. TORCH HOLDER FOR MUSICAL INSTRUMENTS. ERNEST B. MEDEIROS and ANTONE B. MEDEIROS, New Bedford, Mass. Filed May 14, 1921. Serial No. 469,571. 1 Claim. (Cl. 240—52.)



A torch holder for musical instruments comprising an elongated one-piece adjustable shank capable of being adjusted at any point throughout its length, a coupling element carried at the inner end of the shank and provided with means for connecting it to instruments of varying sizes, said element being resilient, a light imparting device holder member secured to the other end of

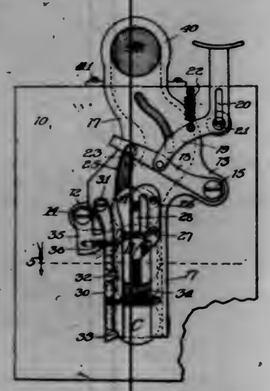
the shank and provided with means for connecting it to light imparting devices of varying sizes, said coupling element being circular in contour and said holder being substantially oval-shaped in contour and of materially greater width than said coupling element, said coupling element and holder member disposed at right angles with respect to the shank and said element extending in an opposite direction with respect to the direction of the holder member.

1,452,978. METHOD OF MAKING PARTI-COLORED BITUMINOUS ROOFING SHINGLES. JOHN STROTHER MILLER, Jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Feb. 11, 1921. Serial No. 444,117. 3 Claims. (Cl. 91—68.)



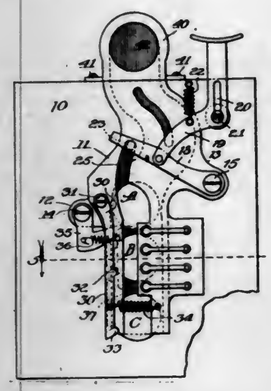
1. The method of producing shingles which consists in applying to one surface of a web of bituminous roofing material coloring matter to form a stripe, severing the web along the stripe in the direction thereof to form ribbons leaving a portion of the stripe on each ribbon, and cutting the ribbons transversely to form shingles.

1,452,979. COIN DETECTOR. FRANK W. MILLS, Chicago, Ill. Filed Sept. 15, 1920. Serial No. 410,512. 2 Claims. (Cl. 194—98.)



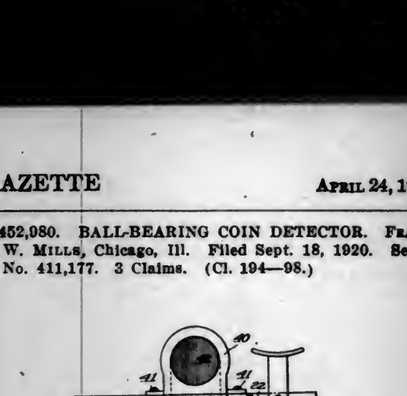
1. In a coin-operated machine, a guide having a slot thru which the coins are caused to pass, said slot having a smooth plane side, detents for stopping coins at definite points in said slot, and a plurality of spring-pressed fingers having free ends overlying said slot, one of said fingers having an elongated bearing surface running lengthwise of the slot, said fingers being adapted to engage the coin in front of the second detent and the coin immediately preceding to press them against the back of the slot.

1,452,980. BALL-BEARING COIN DETECTOR. FRANK W. MILLS, Chicago, Ill. Filed Sept. 18, 1920. Serial No. 411,177. 3 Claims. (Cl. 194—98.)



2. In a coin-operated machine, a slot thru which the coins are caused to pass, said slot having a smooth plane side, and spring pressed balls overlying said slot for pressing adjacent coins against the back of the slot whereby they will be brought edge to edge.

1,452,981. FASTENING DEVICE. HERMAN MUEHLE, Cleveland, Ohio. Filed Sept. 11, 1922. Serial No. 587,547. 7 Claims. (Cl. 24—132.)

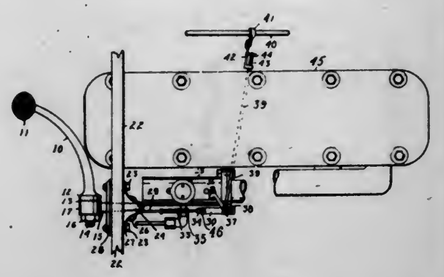


1. A device of the character described comprising the combination of a support, a clamping member pivotally mounted on said support and adapted gravitationally to assume an inutile position, and an actuating lever connected with said support for moving said member to its clamping position.

1,452,982. ACCELERATOR FOR MOTOR-CAR ENGINES. WILLIAM A. NORDSTROM, Jamestown, N. Y. Filed Oct. 28, 1921. Serial No. 511,203. 6 Claims. (Cl. 74—39.)

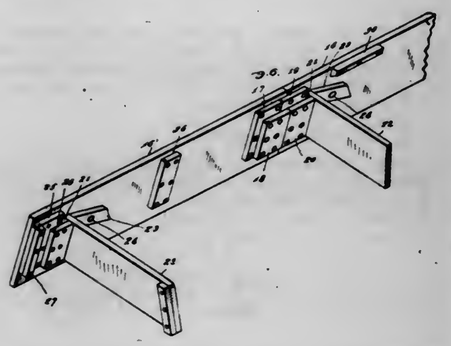
1. In combination with an operating arm of a throttle valve, an actuating lever, an elongated throttle plate having one end secured to the free outer end of the arm

and formed with a pair of lateral, depending ears for freely straddling said outer end of the arm to prevent



relative pivotal movement between said arm and plate, and means connecting the opposite end of the plate to the lever.

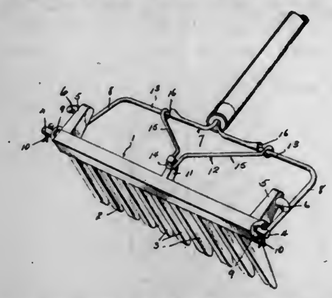
1,452,983. FORM FOR CONCRETE. HERMAN RATH, Indianapolis, Ind., assignor of one-half to Emil Rath, Indianapolis, Ind. Filed Dec. 16, 1921. Serial No. 522,783. 5 Claims. (Cl. 25—131.5.)



2. A collapsible floor form comprising a bottom board, side boards detachably associated therewith and having laterally extending sockets, cross braces having laterally extending projections removably engaging in said sockets, means for holding said cross braces and side boards in interlocked position and a bridge plate supported upon the upper edges of the side boards of two adjacent forms and withdrawable interlocking connections between the bridge plate and side boards.

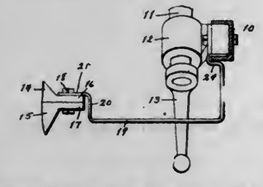
1,452,984. SELF-CLEANING RAKE. JESSE D. RICHARDS, La Fontaine, Ind., assignor of one-third to Jesse D. Gillenwater, Wabash, Ind., and one-third to Charley Gable, Peru, Ind. Filed July 30, 1921, Serial No. 488,594. Renewed Sept. 25, 1922. Serial No. 590,539. 2 Claims. (Cl. 306—11.)

1. A rake of the character described comprising a U-shaped frame provided with a handle, a rake head pivoted between the arms of said frame and provided with teeth, rearwardly extending arms at the end portions of the rake head provided with lateral lugs engaging against the arms of the frame for limiting swinging movement of the rake head in one direction, and means carried by the frame and cooperating with the head for locking the head against movement in the other direction, said means comprising a rearwardly extending upturned hook



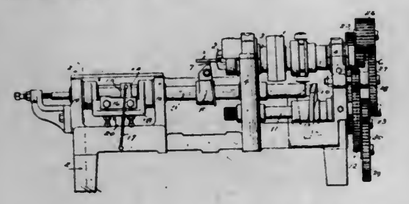
carried by the head, and a retaining yoke pivoted upon the bight portion of the frame and formed with a loop engaging over said hook.

1,452,985. STEERING-GEAR STOP DEVICE. JOHN ROWE, Casey, Iowa. Filed May 25, 1920. Serial No. 384,195. 2 Claims. (Cl. 280—89.)



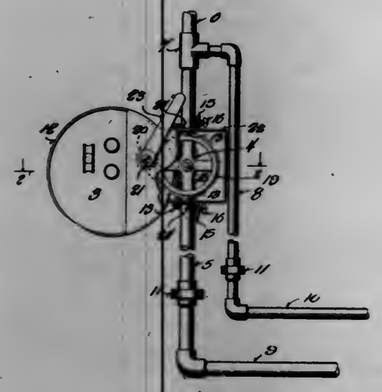
1. In a device of the class described, the combination with the frame and steering-gear arm of an automobile, of a plate arranged in horizontal position and attached to said frame, said plate being formed with a slot adapted to receive and limit movement of said steering-gear arm, said plate being formed with a notch opening from one of its margins to said slot.

1,452,986. OPERATING MECHANISM FOR WOOD-SCREW MACHINES. HENRY L. SMITH, Waterbury, Conn., assignor to The E. J. Manville Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 3, 1922. Serial No. 526,494. 7 Claims. (Cl. 10—101.)



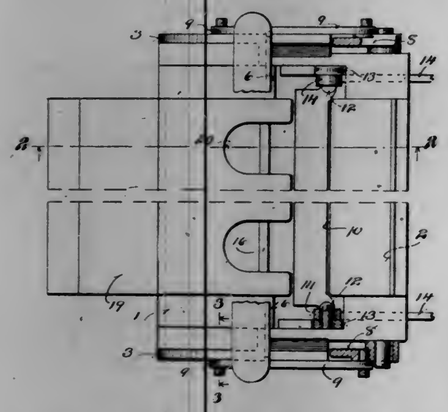
1. An operating mechanism for a wood screw machine comprising a spindle, means for rotating the spindle, a shaft, means for feeding the shaft longitudinally, means for oscillating the shaft on its axis, and intermeshing gears between the spindle and the shaft reciprocating and oscillating means, said gears having such ratio that the spindle turns one-half of a revolution more than a full number of revolutions with relation to the reciprocations and oscillations of the shaft, whereby a tool carried by the shaft will start cutting a blank carried by the spindle alternately on diametrically opposite sides.

1,452,987. AUTOMATIC GAS LIGHTER. RAY STANTON STARKS, Berlin, Wis., assignor of one-half to Henry Oliver Hamre, Berlin, Wis. Filed June 17, 1922. Serial No. 568,931. 2 Claims. (Cl. 161—9.)



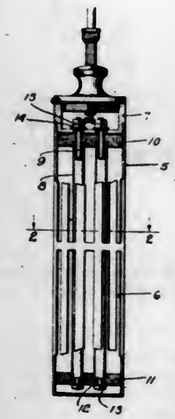
1. A device of the class described comprising a gas supply pipe, a valve for said pipe, a clock mechanism secured to said pipe adjacent the valve, gears for operably connecting the alarm pintle of the clock mechanism to the valve, a lever secured to the alarm pintle, and a pair of stops for limiting movement of said lever in both directions.

1,452,988. MACHINE FOR PRESSING AND LABELING INTERFOLDED SHEETS OF PAPER. LOUIS A. STRAUBEL, Green Bay, Wis. Filed Nov. 8, 1921. Serial No. 513,631. 9 Claims. (Cl. 216—9.)



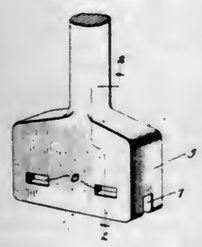
1. A machine of the character described comprising a table adapted to receive a label and a bundle of interfolded paper, said table being provided with an elongated opening in its top, a stop on the table, a presser operating in conjunction with the stop to compress the bundle and an oscillatory folder positioned in the said opening for folding the label on the bundle, said folder being normally flush with the top of the table whereby the label is supported.

1,452,989. HEATING ELEMENT. NORBERT F. STRAUSS, Milwaukee, Wis., assignor to Milwaukee Manufacturing Co., Milwaukee, Wis. Filed Apr. 26, 1921. Serial No. 464,657. 5 Claims. (Cl. 219—40.)



1. A heating element for liquids comprising a housing having openings therein, electrodes supported at one end of the housing and each having a metal core and a carbon covering therefor, and means for connecting said electrodes to an electric circuit.

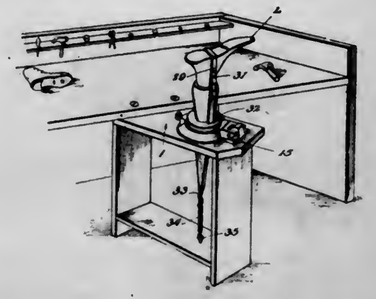
1,452,990. TAMPING TOOL. KNOX TAYLOR, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Aug. 3, 1921. Serial No. 489,653. 2 Claims. (Cl. 94—48.)



2. A tamping tool whereof the head is constructed of manganese steel with a deep slot ranging lengthwise thereof defining wings which spread in service and impart a flare to the slot.

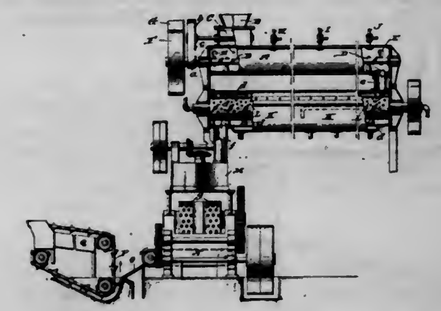
1,452,991. LAST SUPPORT. JULIUS C. TORCHIA, Hazleton, Pa. Filed Dec. 14, 1921. Serial No. 522,348. 3 Claims. (Cl. 12—123.)

1. The combination with a support having an opening therein, of a shoemaker's last support comprising an attaching member rotatably mounted upon said support for adjustment, means for holding the same at adjustment, a base pivotally connected with the attaching member and having a boss to seat within said opening within the support when the base is in the lowered



position, the base being movable upon its pivot to assume a tilted supporting position, and a last supporting member rotatably adjustably mounted upon the base.

1,452,992. BRIQUETTE AND PROCESS OF MAKING SAME. GERARD ANTHONY SCHADE VAN WESTRUM, Philadelphia, Pa. Filed Nov. 15, 1915, Serial No. 61,631. Renewed Aug. 4, 1922. Serial No. 579,770. 12 Claims. (Cl. 44—23.)



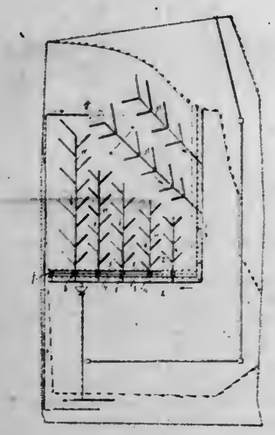
6. A process of producing briquettes, which comprises as a step in the operation, a complete and individual coating of the finely divided particles of combustible material with an asphaltic emulsion.

1,452,993. CLEAT FOR ELECTRIC CONDUITS. CHARLES H. WACK, Baltimore, Md. Filed July 13, 1921. Serial No. 484,306. 4 Claims. (Cl. 248—31.)



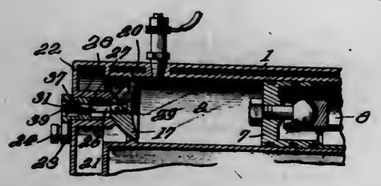
1. A cleat for supporting conduits comprising a base piece having flanges at its opposite edges projecting at the same side of the base-piece, each flange comprising a part bent outwardly to form a hook and a part bent inwardly over the base to form a support for the conduit, and a U-shaped strap having inwardly bent hooked portions at its ends adapted to engage the hooked portions on the base.

1,452,994. DEPOSITING METHOD FOR THE MASSES OF SAND AND GRAVEL OBTAINED IN BROWN-COAL OPEN WORKINGS. WILHELM WEBER, Wiesbaden, Germany, assignor to the Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Filed Jan. 22, 1921. Serial No. 439,274. 1 Claim. (Cl. 262—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



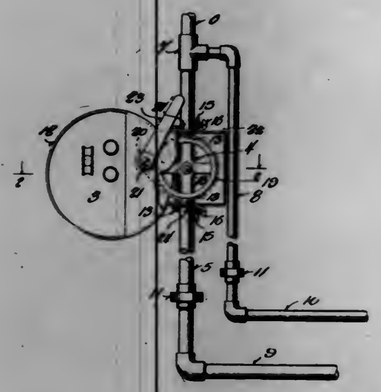
An improved method for depositing the masses of sand and gravel obtained in brown-coal open workings consisting in conducting the mixture of sand, gravel and water coming from the open working first between two boardings standing at a determined distance the one from the other and extending between the open workings and the dumping site so that a high dam of sand and gravel is erected between the boardings, whereupon the mixture of sand, gravel and water is conducted to a point of the field which is situated at a large distance from the dam so that the water has separated from the solid admixtures long before the deposited material reaches the dam and in draining the dumping site of the water by means of ditches arranged at the lowest parts of the flushing field.

1,452,995. VALVE-OPERATING CONNECTION. MELVIN A. YEAKLEY, Canton, Ohio. Original application filed May 17, 1915, Serial No. 28,669. Divided and this application filed Dec. 30, 1919. Serial No. 348,455. 5 Claims. (Cl. 123—190.)



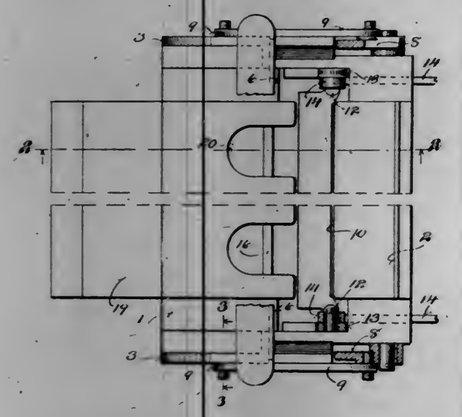
1. The combination with an engine cylinder having a frusto-conical valve seat at its head, an oscillating frusto-conical valve on said seat, an oscillating operating member, and a valve stem having an oscillatory connection between the apex of the valve and the operating member, whereby the valve cannot be unseated by the oscillation of the valve stem.

1,452,987. AUTOMATIC GAS LIGHTER. RAY STANTON STARKS, Berlin, Wis., assignor of one-half to Henry Oliver Hamre, Berlin, Wis. Filed June 17, 1922. Serial No. 568,931. 2 Claims. (Cl. 161—9.)



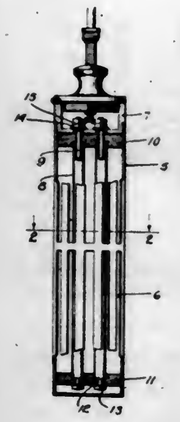
1. A device of the class described comprising a gas supply pipe, a valve for said pipe, a clock mechanism secured to said pipe adjacent the valve, gears for operably connecting the alarm pintle of the clock mechanism to the valve, a lever secured to the alarm pintle, and a pair of stops for limiting movement of said lever in both directions.

1,452,988. MACHINE FOR PRESSING AND LABELING INTERFOLDED SHEETS OF PAPER. LOUIS A. STRAUBEL, Green Bay, Wis. Filed Nov. 8, 1921. Serial No. 513,631. 9 Claims. (Cl. 216—9.)



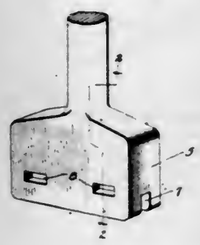
1. A machine of the character described comprising a table adapted to receive a label and a bundle of interfolded paper, said table being provided with an elongated opening in its top, a stop on the table, a presser operating in conjunction with the stop to compress the bundle and an oscillatory folder positioned in the said opening for folding the label on the bundle, said folder being normally flush with the top of the table whereby the label is supported.

1,452,989. HEATING ELEMENT. NORBERT F. STRAUSS, Milwaukee, Wis., assignor to Milwaukee Manufacturing Co., Milwaukee, Wis. Filed Apr. 26, 1921. Serial No. 464,657. 5 Claims. (Cl. 219—40.)



1. A heating element for liquids comprising a housing having openings therein, electrodes supported at one end of the housing and each having a metal core and a carbon covering therefor, and means for connecting said electrodes to an electric circuit.

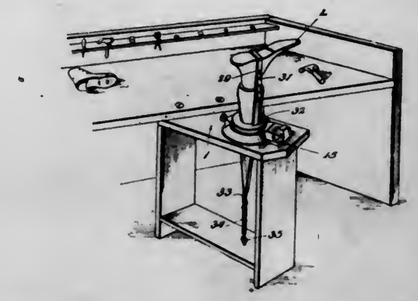
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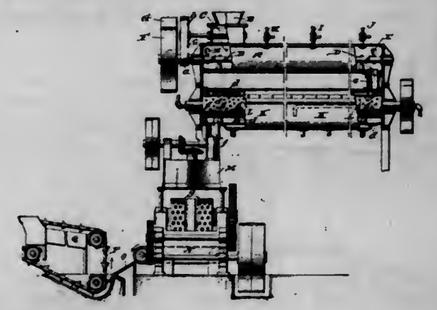
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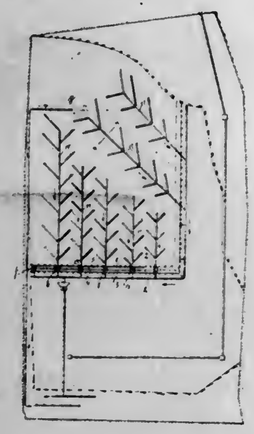
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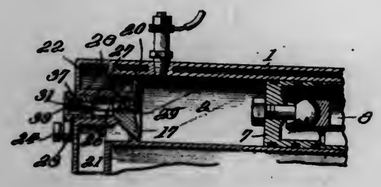
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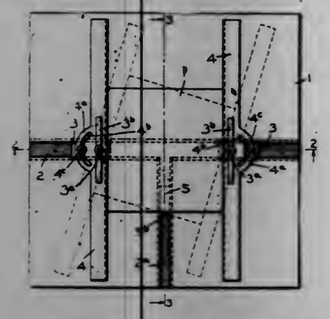
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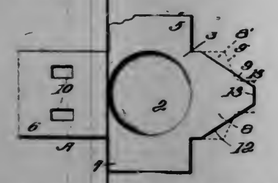
1. The combination with an engine cylinder having a frusto-conical valve seat at its head, an oscillating frusto-conical valve on said seat, an oscillating operating member, and a valve stem having an oscillatory connection between the apex of the valve and the operating member, whereby the valve cannot be unseated by the oscillation of the valve stem.

1,452,996. HOLDER FOR PHOTOGRAPHIC PAPER. NORMAN G. BAKER, Muscatine, Iowa. Filed June 11, 1921. Serial No. 476,805. 15 Claims. (Cl. 88—24.)



1. An adjustable holder for the purposes described comprising a board, a pair of parallel guide strips adjustable on the board to or from each other and adjustable at any desired angle relative to the vertical axis of the board adapted to support and position a sheet of paper between them, substantially as described.

1,452,997. RAILWAY SIGNAL TORPEDO. HARVEY O. BEMISDERFER, Hammond, Ind., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 14, 1921. Serial No. 514,988. 8 Claims. (Cl. 246—487.)



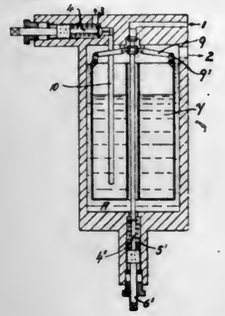
1. A railway signal torpedo comprising, an explosive, a casing for the explosive comprising several folds of material, a rail engaging member carried by the torpedo, and the final outer fold of the container locked beneath the rail engaging member.

1,452,998. ELBOW CUFF. SALLIE DAVIS BOWERS, Kansas City, Mo. Filed Aug. 3, 1921. Serial No. 489,418. 3 Claims. (Cl. 128—133.)



1. An elbow cuff comprising a flexible sheet adapted to be formed into a tube arranged to embrace the arm above and around the elbow, the upper portion of the sheet having overlapping portions and having means for fastening together said overlapping portions, elastic means provided along the upper edge of the sheet, longitudinal stiffening means attached to that portion of the sheet which embraces the elbow, and means for fastening together overlapping portions of that portion of the sheet which embraces the elbow, substantially as set forth.

1,452,999. RECEIVER OF REFRIGERATING APPARATUS. HENRY BRIER, Dartford, England. Filed Mar. 9, 1920. Serial No. 364,479. 4 Claims. (Cl. 137—68.)



1. In combination, a liquid-containing receiver for use with refrigerating apparatus, said receiver having at its upper part a gas inlet port and a gas outlet port, a spring loaded valve controlling said inlet port, said receiver having also a liquefied gas outlet port, a spring loaded valve controlling said outlet port, a float sustained by the liquid within said receiver, and operative connections between one of said spring loaded valves and said float whereby the load on the valve with which said float is connected is varied in dependence on the quantity of liquid within said receiver.

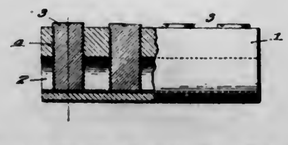
1,453,000. COLLAPSIBLE COAT HANGER. CARL F. BRINKMAN, Milwaukee, Wis. Filed May 8, 1922. Serial No. 559,200. 1 Claim. (Cl. 211—13.)



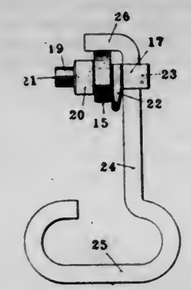
A foldable coat-hanger, comprising sheet metal bow-strips having longitudinal slots therein, the inner ends of the bow-strips being off-set and apertured, a pivot bolt engaging the apertures, tits extending from one of the off-set inner ends of the bow-strips for engagement with corresponding indentures in the outer off-set end of said bow-strips, said tits and depressions being diametrically arranged with respect to said pivot bolt, whereby said bow-strips are frictionally held in either extended or folded position, a hanger hook extending from the pivot bolt, T-shaped anchor lugs depending from the outer ends of the aforesaid bow-strips and alined with the slots therein, longitudinally adjustable shoulder-strips having slots therein for sliding engagement with the T-shaped lugs of the bow-strips, and T-shaped lugs projecting from the inner end of the shoulder-strips for engagement with the bow-strip slots, whereby the shoulder-strips are folded inwardly upon the bow-strips and the bow-strips are folded upon themselves about their pivot connection.

1,453,001. CABLE CONNECTOR. WILLIAM E. CAMP, Canton, Ohio. Filed May 1, 1920. Serial No. 378,240. 4 Claims. (Cl. 287—76.)

1. A cable connector comprising a block member having a main opening extending therethrough and a plurality of screw threaded openings at right angles to said main opening, and a screw threaded clamping member in each of said screw threaded openings having a diameter at least as great as the diameter of said main opening and extending completely to the side wall of said main opening opposite said right angle openings.



1,453,002. COUPLING-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed Aug. 12, 1922. Serial No. 581,400. 11 Claims. (Cl. 213—170.)

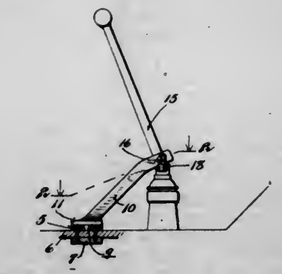


3. The combination with a coupler lock pin, of a pin lifting arm, a member attached to said arm and provided with a vertical eye, and a link connected to the lock pin and passing through the eye of said member, said link having an angular extension at its upper end to engage with the upper surface of the arm.

1,453,003. AUTOMOBILE POLISH. GEORGE A. COLETTE, Blanchard, Wash. Filed Sept. 21, 1922. Serial No. 589,705. 2 Claims. (Cl. 134—24.)

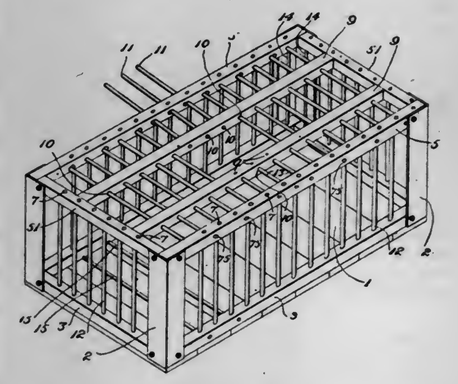
2. A composition of two parts of cider vinegar, one part of olive oil, and one part of corn oil.

1,453,004. GEAR-SHIFT LOCK. NICHOLAS COLLION, Milwaukee, Wis. Filed June 2, 1921. Serial No. 474,357. 4 Claims. (Cl. 70—128.)



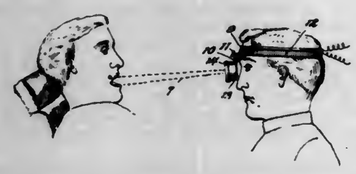
1. An attachment for motor vehicles comprising a block provided with means for securing it to the floor of the vehicle, said block having a slot therein, and an interior cavity in communication with said slot, an arm having a head adapted to removably seat on said block so as to conceal the securing means, said head having a key thereon insertible in said slot and securing said head against removal when turned angularly to said slot, and means operable when the head is keyed to the block for locking the other end of said arm to the gear shift lever to prevent the latter from being shifted.

1,453,005. CRATE. DANIEL T. CONSIDINE, Watertown, Mass. Filed May 15, 1922. Serial No. 560,865. 5 Claims. (Cl. 217—36.)



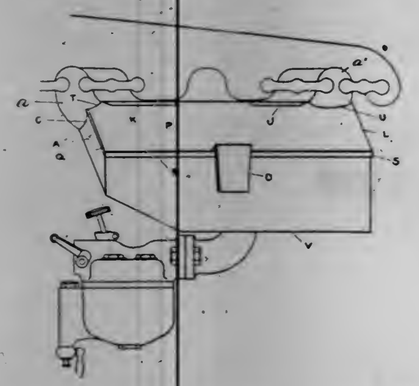
1. A crate or crate-like container comprising oppositely located frame-bars in pairs, and openwork composed of rods or staves, one frame-bar of each pair having a series of sockets for the corresponding ends of the rods or staves, and the other frame-bar of the pair having a second series of sockets, alined with those of the first bar, for the other ends, and also having through-holes disalined with but intersecting such sockets, whereby the rods or staves may be inserted by way of the said through-holes into the two series of sockets and by reason of the engagement of one set of their ends in the sockets of the first series their other ends will spring into the second series of sockets, out of register with the through-holes, and the rods or staves will be held from accidental endwise displacement.

1,453,006. LIGHTING MEANS FOR SURGICAL AND OTHER PURPOSES. EMORY C. DAY, Laguna Beach, Calif. Filed May 26, 1921. Serial No. 472,789. 9 Claims. (Cl. 128—22.)



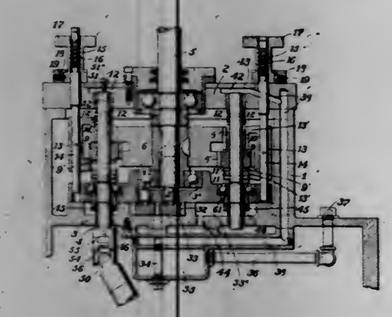
1. A lighting means for surgical and other purposes, comprising a body member with a centralized peep hole therethrough, a circular group of illuminating elements in the body member about the peep hole, and a circular group of reflector means also within the body member, with each reflector between the circular group of illuminating elements and the peep hole.

1,453,007. MANIFOLD HEATER. LORIN FLEGAL, Mount Williams, Va. Filed May 14, 1921. Serial No. 469,695. 3 Claims. (Cl. 123—180.)



1. A manifold heater comprising a receptacle shaped to substantially enfold the intake manifold of an internal combustion engine, and a cover-plate associated with the receptacle to lock the latter in position and to overlie the manifold.

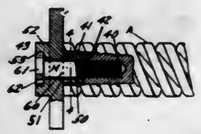
1,453,008. MULTIPLE-DRILLING MACHINE. WILLIAM R. FOX and HOWARD D. CORWIN, Jackson, Mich., assignors to Fox Machine Company, Jackson, Mich., a Corporation of Michigan. Filed Oct. 7, 1921. Serial No. 506,090. 26 Claims. (Cl. 77—24.)



1. In combination in a multiple drill press, spindles, one for each drill having means to connect, individually, each with its own drill driving gears, for high and low speed, high and low pinions on the spindles, clutch means, one for each drill spindle between the respective pinions and the spindle mounted in part on the spindle and in part on the pinion, said pinions and clutch means being relatively movable, to change the speed of the spindles individually while the pinions are maintained in mesh with their respective driving gears, substantially as described.

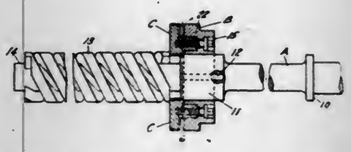
6. In combination in a multiple drilling machine, a casing, spindles, a pair of pinions on each spindle, gears for driving the pinions, and means for shifting the pinions including a screw threaded rod extending parallel with the spindle and to a point above the casing, a nut engaging the screw rod and carried by the top of the casing, a member mounted on the top of the casing, a rotary handle connected with the nut for moving the screw and detent means between the rotary handle and the said member, substantially as described.

1,453,009. TOP SCREW FOR GILL-DRAWING FRAMES. GEORGE T. HEMSLEY, Lawrence, Mass. Filed June 19, 1922. Serial No. 569,336. 5 Claims. (Cl. 19—129.)



1. An improved top screw for gill-drawing frames comprising a shaft having screw threads on its exterior extending in from its outer end, a stem recess having a flattened side and a threaded axial hole, a faller-cam having on the inside a stem which fits the stem recess and a bore which registers with the axial hole and having on the outside an annular projecting boss which serves as a bearing for the end of the screw and has a countersunk head recess, and a fastening screw having a shank which passes through said bore into said hole and a head which fits said countersunk recess.

1,453,010. CAM FOR GILL BOXES. GEORGE T. HEMSLEY, Lawrence, Mass. Filed Nov. 17, 1922. Serial No. 601,660. 3 Claims. (Cl. 19—129.)



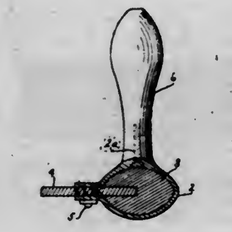
3. In a faller operating mechanism for a gill-box, the combination of a double threaded screw shaft, with a disc shaped cam plate fixed thereon, said cam plate having a face with two recesses therein, cam toes each detachable from said cam plate and each having a wearing edge together with an arm which fits into one of said cam plate recesses, and means to hold the cam toe arm in the cam plate recess.

1,453,011. DEVICE FOR EXTRICATING MUD-STALLED VEHICLES. BENNETT D. HOBSON, Richmond, Va. Filed June 15, 1922. Serial No. 568,609. 1 Claim. (Cl. 242—95.)



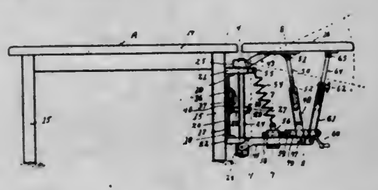
The combination with a vehicle, of a power wheel carried thereby, of a drum removably engaging the wheel and a cable engaging the drum, said drum having a hub and a pair of flanges spaced to receive but a single thickness of cable, the whole so arranged that when the vehicle is stalled and its resistance to movement is greatest, turning the power wheel and drum at a given expenditure of power exerts the greatest pull on the cable, and that as the vehicle moves and attains momentum, the effective diameter of the drum becomes increasingly greater and the vehicle speed of movement becomes increasingly greater with the same expenditure of power.

1,453,012. HANDWHEEL GRIP. HARRY L. JACKSON, Palo Alto, Calif. Filed Dec. 20, 1921. Serial No. 523,657. 2 Claims. (Cl. 74—33.)



1. A device of the character indicated comprising a resilient member having an inner contour adapted to engage the rim of a hand wheel and separable along one side to permit its engagement with said wheel, opposed flanges carried by the separable portions of said member, said flanges being formed to engage a spoke of said wheel, means for securing said flanges to said spoke, and a handle mounted on said member.

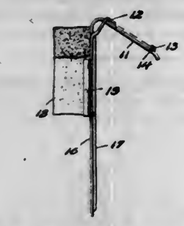
1,453,013. TREATMENT TABLE. FRANK KOENIGKRAMER, Cincinnati, Ohio, assignor to John V. McManis, Kirksville, Mo. Filed June 23, 1919. Serial No. 305,991. 4 Claims. (Cl. 128—74.)



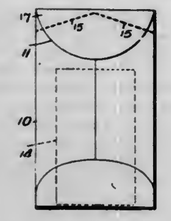
1. A table attachment comprising a rigid frame separately attached to two adjacent legs of a table near the upper extremities of said table legs and near the lower extremities of said table legs and serving to thereby add to the rigidity of the table and at the same time afford a more firm and rigid support for an oscillatable table top section, a vertically disposed shaft journaled to said frame, a table top section pivotally attached to the upper end of said shaft and oscillatable vertically with reference to said shaft and horizontally with said shaft in its bearings, means carried by said frame to resiliently support said table top section vertically, means attached to said frame and to said shaft to yieldingly support said shaft in a predetermined position with reference to said frame, and means to positively lock said shaft against rotation relative to said frame.

1,453,014. COMBINED RAZOR AND BRUSH. KOBY KOHN, New York, N. Y., assignor to Victory Sparkler & Specialty Co., Elkton, Md., a Corporation of Delaware. Filed Oct. 6, 1921. Serial No. 505,877. 3 Claims. (Cl. 132—80.)

3. In a device of the class described the combination of a sheet metal frame including a body portion having a flat back, a handle projecting from said back midway at one end and a razor supporting portion projecting from the other end of said body portion at an angle towards the handle end, means on said supporting portion for detachably engaging a razor blade, and a lathering brush composed of sponge rubber secured to said flat back portion by marginal flanges extending outwardly and inwardly, the central portion of said handle being curved transversely forming a rib and the razor blade holding means being formed integrally from the metal of the body and razor supporting portion.

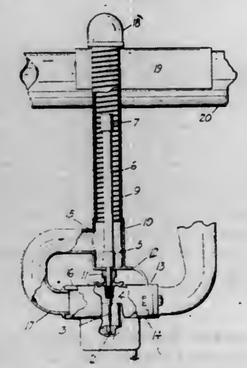


1,453,015. DRINKING CUP. JOSEPH W. LAVIGNE, Worcester, Mass. Filed Oct. 12, 1920, Serial No. 416,500. Renewed Feb. 27, 1923. 1 Claim. (Cl. 229—85.)



As an article of manufacture, a drinking cup formed of water repellant paper open at the top, but having a gummed flap for use in sealing it, whereby it can serve as a substantially water-proof sealed receptacle, and having a line of perforations through the front thereof and through the flap to permit of the top being torn off to adapt it for use as a drinking cup, said line of perforations being higher at the center of the front and rear than at the two edges, to provide, a depression at each edge of the top of the cup.

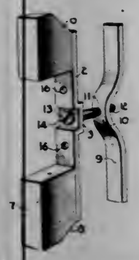
1,453,016. THERMOSTATIC VALVE FOR CARBURETORS. FREDERICK O. LEWIS, Dayton, Ohio, assignor of one-half to Oscar B. Reemelin, Oakwood, Ohio. Filed Aug. 31, 1921. Serial No. 497,445. 1 Claim. (Cl. 261—39.)



In a device of the type described, the combination with a carburetor having a liquid-fuel discharge orifice, of a

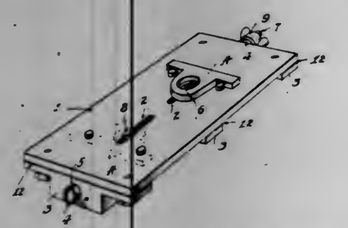
needle valve for controlling the latter, an air heater, an air conduit leading from the heater to the carburetor, a tubular support projecting into said air conduit, and an expansible element in said tubular support, connected to the needle valve, for the purpose specified.

1,453,017. WALL BRIDGE FOR SWITCHES. GUSTAF HERMAN LINDELOF, De Kalb, Ill. Filed Mar. 22, 1922. Serial No. 545,813. 7 Claims. (Cl. 247—21.)



3. A wall bridge for switches comprising spaced wall-engaging members, said members each comprising an elongated metal bar, a screw-swivelled centrally of one bar and threaded centrally into the other bar, the latter being bent intermediate of its length towards the first bar, said first bar having a countersunk seat for the head of the screw and means at opposite ends of the bar to bear against the inner face of the wall, said screw having a shoulder or flange in opposition to the head to prevent dislodgement of the screw, while permitting the free turning of the same to cause a separation of the members for engaging the opposite inner faces of the laths of a wall and thereby support the device at the desired location.

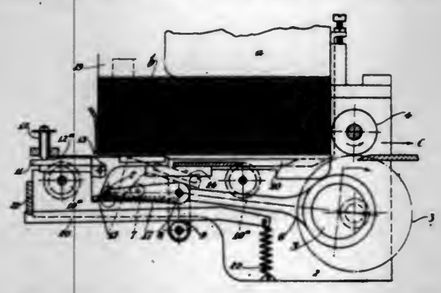
1,453,018. TOOL. WILLIAM MCHEWITT and HAROLD G. BRANDT, Burlington, Iowa. Filed Jan. 19, 1922. Serial No. 530,251. 2 Claims. (Cl. 81—33.)



1. In a tool of the nature described, the combination of a support having a plane surface, a tubular member beneath the support, bearings secured to the latter in which the said member is slidable in a longitudinal direction, a rod slidable within the member, a right-angled extension on said rod, there being a slot in the member through which the extension projects, there also being a pair of slots in the said support arranged parallel to the member and rod, the extension of the latter projecting through one of the said slots, an extension on the member extending through the other slot, a pair of studs extending from the surface of the support near each slot in the latter, and means to shift the member and rod relatively in opposite directions.

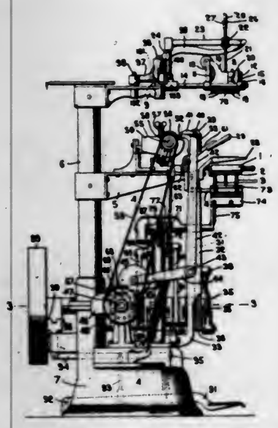
1,453,019. SHEET FEEDER. WALTER EVERETT MOLINS, London, England. Filed Mar. 24, 1922. Serial No. 546,511. 12 Claims. (Cl. 271—44.)

1. Apparatus for feeding sheets of material to sheet gripping means one by one from the bottom of a pile comprising in combination, a magazine adapted to receive a pile of sheets, a reciprocating slide beneath said magazine, a pin holder pivoted to said slide, pins in said



holder, a depending portion on said holder and an eccentric rod operating the slide and bearing on said depending portion of the holder.

1,453,020. LABELING MACHINE. NELSON MUSLAR, Worcester, Mass., assignor, by mesne assignments, to Royal Labeling Machine Company, Incorporated. Filed Feb. 2, 1920. Serial No. 355,874. 10 Claims. (Cl. 216—54.)

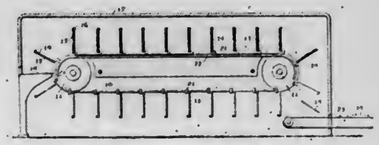


1. In a labeling machine, the combination with a bottle-supporting table, of means to place a glued label on a bottle on said table, a vertically-movable carrier, a pair of wipers mounted thereon for movement relative to each other, means to move the carrier vertically thereby to carry the wipers from a position above the table to one beneath the table, and means mounted on said carrier movable relative thereto to give the wipers a relative movement as the carrier is being moved.

1,453,021. PREPARATION FOR DYEING FURS, HAIRS, AND THE LIKE. PAUL ONNERTZ, Berlin-Wilmersdorf, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Apr. 17, 1922. Serial No. 553,982. 3 Claims. (Cl. 8—6.)

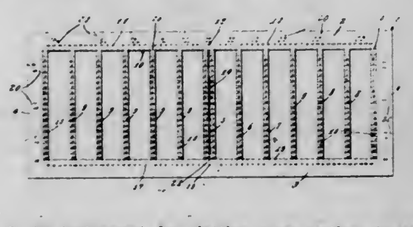
1. As new compositions of matter preparations for dyeing hairs, furs and the like, comprising a 4-amino-1-oxy-derivative of the benzene series and a m-diaminophenol-alkyl-ether, in aqueous solution in combination with an oxidizing agent producing on hairs, furs and the like from red-brown to violet to blue to black tints.

1,453,022. MAGNETIC DRYING APPARATUS. WILLIAM D. PHILIPS, Brooklyn, N. Y. Filed Apr. 27, 1920. Serial No. 377,133. 14 Claims. (Cl. 198—134.)



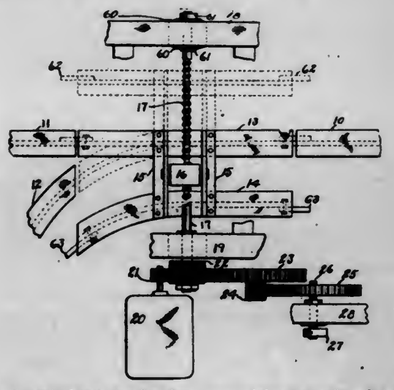
1. A magnetic drying apparatus comprising an enclosing casing, an endless carrier movable in the casing and provided with outwardly projecting spaced arms each adapted to carry a plate edgewise with relation to the carrier, means for magnetizing the arms so as to hold the plates against displacement, and means for substantially demagnetizing the arms at the discharge end of the carrier.

1,453,023. DRAFTING INSTRUMENT. ROBERT RUFFIN, Jr., Senatobia, Miss. Filed June 21, 1922. Serial No. 569,838. 2 Claims. (Cl. 33—75.)



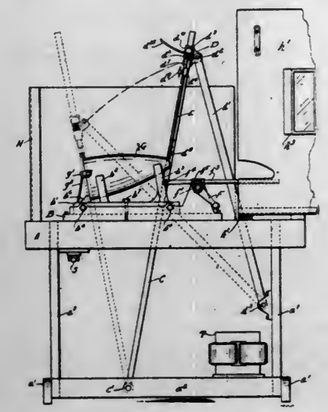
1. An instrument for platting cross sections in earth work, comprising a frame including top and bottom strips, an intermediate rib connecting the strips, and lateral ribs connecting the strips and located on opposite sides of the intermediate rib, one of the strips having an inner fiducial edge, the ribs being spaced apart and being located at right angles to the fiducial edge, one of the strips being calibrated in opposite directions from a zero point coinciding with the intermediate rib, all of the ribs being calibrated longitudinally from a zero point coinciding with the fiducial edge.

1,453,024. SWITCHING MECHANISM. TRACY B. RYON, Waltham, Mass. Filed Oct. 23, 1922. Serial No. 596,209. 6 Claims. (Cl. 104—102.)



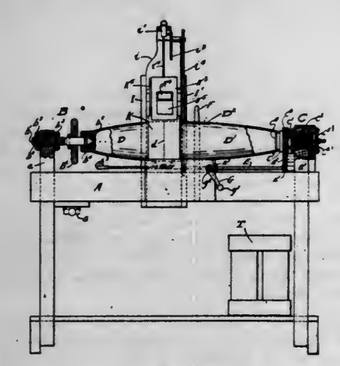
2. A switching mechanism comprising a pair of track sections, means to shift said sections alternately in opposite directions, said means including a motor, a circuit controlling switch for said motor, positive driving connections between said motor and said circuit controlling switch, and yielding driving connections between said motor and said track sections.

1,453,025. APPARATUS FOR ELECTRIC-ARC WELDING. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,522. 9 Claims. (Cl. 219—8.)



1. In an arc-welding apparatus, an electrical welding circuit, a holder for the work to be welded, a spring for retracting the electrode, an electrode carrier movable under compression of the spring to bring the electrode into contact with the work to strike an arc, and devices for feeding the fusible electrode along the welding line in the ratio of the consumption of the electrode.

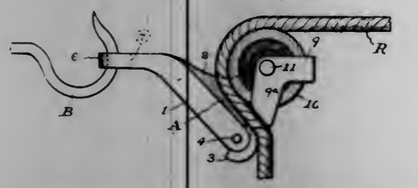
1,453,026. APPARATUS FOR ARC WELDING. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,523. 8 Claims. (Cl. 219—8.)



1. In an arc-welding apparatus, an electrical welding circuit of which a fusible electrode forms a part, a carrier for the electrodes, devices for imparting an initial movement to the said carrier to strike an arc between the electrode and the work to be welded, devices for feeding

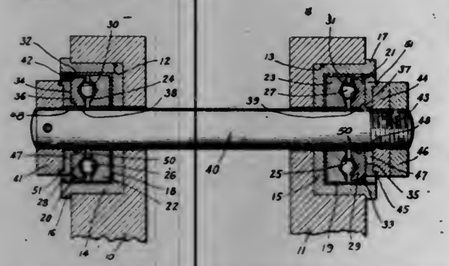
the fusible electrode and for moving the work past the point of the fusible electrode at a speed in fixed ratio to the consumption of the electrode, whereby the fused electrode is evenly deposited and amalgamated with the work, and means to disconnect the electrode carrier from its actuating devices to permit the quick return of the carrier to initial position.

1,453,027. CLOTHESLINE HOLDER AND TIGHTENER. HOWARD A. THAM and RALPH J. WEAVER, Akron, Ohio. Filed Sept. 13, 1922. Serial No. 587,862. 6 Claims. (Cl. 24—134.)



1. A rope tightener including a frame formed with a laterally opening rope receiving space, a pulley journaled upon the frame adjacent to the rope receiving space so that the rope to be tightened can be engaged with the pulley, and moved laterally into the rope receiving space, and a gravity releasable rope clamping member mounted upon the frame for engaging the rope in the rope receiving space to permit longitudinal movement thereof in one direction and prevent movement thereof in the opposite direction.

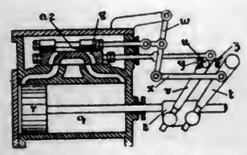
1,453,028. ANTIFRICTION BEARING AND SHAFT-CENTERING DEVICE. SIDNEY S. TOOKER, Rochester, N. Y. Filed Oct. 11, 1921. Serial No. 507,105. 4 Claims. (Cl. 64—49.)



4. An annular ball bearing comprising in combination with a support frame and a shaft passing loosely therethrough, a cup in said frame, a seat fixed in said cup, a race free in said cup, said seat and race being grooved, balls in the grooves of said seat and race, means formed with said cup preventing separation of said seat and race, a washer having a hub extending into a recess in said race, a peripheral flange on said washer extending opposite its hub, and a disc fixed on said shaft, said disc having its adjacent face recessed to receive the flange of said washer and being adapted to floatingly support said shaft.

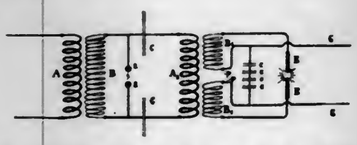
1,453,029. VALVE GEAR OF DUPLEX PUMPS. ARTHUR HUGHES TWELLS, Leicester, England. Filed Aug. 20, 1919. Serial No. 318,197. 2 Claims. (Cl. 121—116.)

1. A duplex pump having in combination, a cylinder for each pump, a valve for each cylinder to control the admittance of an actuating fluid thereto, valve actuating levers actuated by the crosshead of each pump, movable fulcrums supporting said levers, stops to limit the movement of said fulcrums, each fulcrum being moved by the other pump and having a certain amount of free movement in respect of such pump crosshead, whereby the



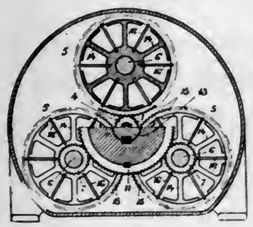
valve for each cylinder is opened by the other pump and closed by its own pump, and a separate cut-off valve working in combination with the valve for each cylinder.

1,453,030. MEANS FOR ESTABLISHING A VOLTAIC ARC BETWEEN ELECTRODES NOT IN CONTACT. FLORENCIO COMAMALA UCAR, Madrid, Spain. Filed July 6, 1915. Serial No. 38,363. 9 Claims. (Cl. 176—104.)



1. In apparatus for establishing arcs between non-contacting electrodes, in combination, a supply circuit for supplying current to said electrodes, means for introducing an oscillatory current of high frequency into the supply circuit, and as part of said means a divided coil through the divisions of which the oscillatory current is introduced into the main circuit, a conductor connected across the divided coil circuit and, in the said cross connecting conductor, electric means for checking the passage of the main current while permitting the passage of the oscillatory current.

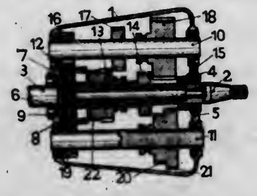
1,453,031. TOOTHED WHEEL. WILHELM ROBERT UGGLA and GUNNAR AUGUST FERDINAND WALLGREN, Harnosand, Sweden. Filed Feb. 21, 1921. Serial No. No. 446,927. 3 Claims. (Cl. 74—29.)



1. In a toothed wheel, a hub, spokes extending outwardly from said hub, a rim rotatably mounted on said spokes and provided with slots in the inner side thereof, springs fixed to said hub between said spokes and extending into said slots, and abutments provided on the spokes normally spaced from said springs and cooperating with the springs for positively limiting the relative movement between the rim and hub.

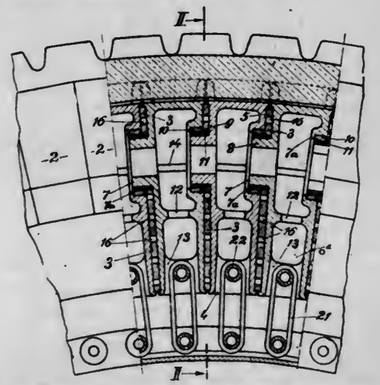
1,453,032. CHANGE-SPEED GEAR. GRAF ALFRED VON SODEN-FRAUNHOFEN, Friedrichshafen, Germany. Filed May 3, 1920. Serial No. 378,634. 3 Claims. (Cl. 74—58.)

1. In a device of the kind described in combination, a main shaft and two intermediate shafts extending at substantially equal distances from said main shaft, said three shafts being disposed in the corners of a triangle, gear wheels on said main shaft and a plurality of axially



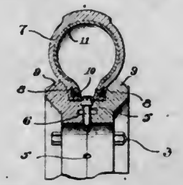
displaceable wheels distributed over said intermediate shafts, the number of displaceable wheels being the same on both intermediate shafts.

1,453,033. VEHICLE TIRE. ROMAN VON KRENSKI, Berlin-Friedenau, Germany. Filed Jan. 24, 1922. Serial No. 531,459. 10 Claims. (Cl. 152—9.)



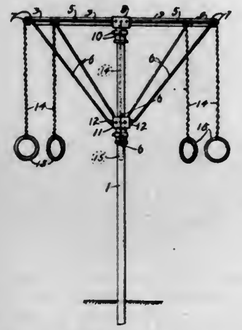
6. In a vehicle tire in combination, elastic and non-elastic segments alternating with one another and combined into an annulus, the non-elastic segments having the form of hollow bodies open on both sides and towards the centre of the annulus, a tubular extension surrounding the opening on each side of each segment, one extension being directed outwardly, the other inwardly a steel lining on said outwardly directed extension and a steel lining of convex section in said inwardly directed extension.

1,453,034. METHOD OF VULCANIZING TIRES. HARRY B. WALLACE, St. Louis, Mo. Filed Dec. 15, 1920. Serial No. 430,948. 2 Claims. (Cl. 18—53.)



1. A method of preparing a tire-casing for vulcanising upon an inflatable bag as a form, which method consists in distending the bag and the casing by the application of pressure internally of the bag until the bag is fully distended and free of wrinkles, reducing the pressure as required to accommodate the tire in a mould in which it is to be vulcanized so that it will take its proper position therein, and subsequently increasing the internal pressure of the air bag, after the mould has been fastened together, so as to receive the full and proper internal pressure during the process of vulcanization.

1,453,035. EXERCISING APPARATUS. WINFIELD WILLIAMS, San Jose, Calif., assignor to J. F. Patterson and Hortense Bean, a Copartnership operating as Patterson-Williams Mfg. Co., San Jose, Calif. Filed Mar. 17, 1921. Serial No. 453,115. 7 Claims. (Cl. 46—69.)



7. An exercising apparatus comprising a fixed support, a circuitous endless series of depending swing members directly connected thereto, and rings attached to the lower ends of said members.

1,453,036. SHOE-STRING-HOLDING CUFF. EDWARD H. BINNS and RALPH H. BINNS, Pittsburgh, Pa. Filed May 11, 1922. Serial No. 560,218. 1 Claim. (Cl. 24—117.)

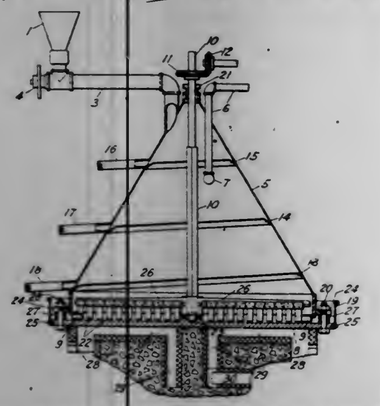


As a new article of manufacture, a shoe cuff provided at its upper inner margin with a lengthwise extending fillet forming a shoulder to rest on the shoe top, and provided at its ends with holes for attachment to opposed lacing studs adjacent the front foot opening of a shoe, each end portion of the cuff being provided with a rearwardly recessed shoe-string holder; the inner surface of the recessed holder being directly opposed to the cuff surface and being tippable in relation thereon for reception of a shoe-string end.

1,453,037. APPARATUS FOR THE TREATMENT OF NATURALLY-OCCURRING HYDROCARBON-CONTAINING MATERIALS. CLIFFORD P. BOWIE, Berkeley, Calif., and MARTIN J. GAVIN, Boulder, Colo. Original application filed Nov. 17, 1919, Serial No. 338,637. Divided and this application filed June 1, 1922. Serial No. 565,180. 6 Claims. (Cl. 196—19.)

1. An apparatus for the described purpose, comprising a retort to which the material to be treated is supplied;

an underlying heating hearth for receiving the material, said hearth being spaced from the base of the retort to leave a peripheral opening; means within the retort, operating over the hearth for moving the material to said



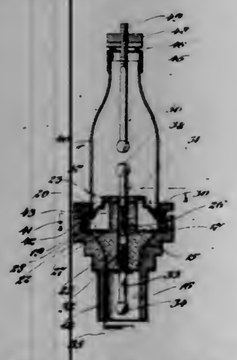
opening; offtakes in the wall of the retort above said opening for the vaporous material; and a sealed discharge associated with said opening for the residual material, consisting of a plate exterior to, spaced from, and rising above the level of the opening.

1,453,038. POWDER PUFF. CHARLES T. BOYD and GEORGE S. HERSHEY, Columbus, Ohio. Filed Sept. 30, 1922. Serial No. 591,624. 6 Claims. (Cl. 132—78.5.)



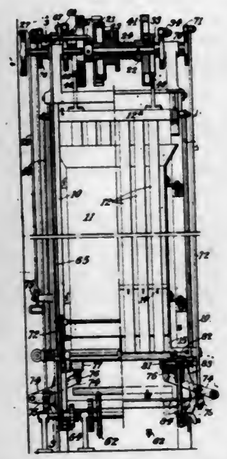
4. A powder puff comprising, in combination, a magazine for the powder and a distributing member for the powder comprised of a perforated support of resilient material surmounted with powder distributing fabric, said distributing fabric adapted for attachment to the magazine.

1,453,039. SPARK PLUG. HARRY H. CHINSKY and EMIL HONSTETTER, Brooklyn, N. Y. Filed Apr. 10, 1920. Serial No. 372,823. 1 Claim. (Cl. 123—169.)



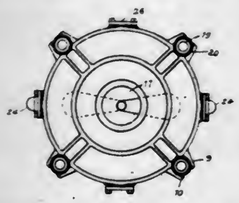
A spark plug comprising a body, an insulator therein, a ring above said insulator, a glass casing, means for clamping said casing to said ring, non-conducting, yielding packings between said casing and said ring, a sleeve in said insulator, a sectional conductor in said sleeve, each section being independently adjustable longitudinally, a fixed terminal at the inner end of said body, and an adjustable terminal engaged at the outer end of said casing.

1,453,040. MACHINE FOR MAKING CEMENTITIOUS ARTICLES. ALFRED OWEN CROZIER, New York, N. Y., assignor to Crozier-Straub, Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1920. Serial No. 383,501. 13 Claims. (Cl. 25—11.)



1. A machine for making cementitious articles by the column method from an intermittently descending unset cementitious column, comprising power actuated means operating to permit the unset cementitious column to descend upon a pallet, and a cutter means operating in the manner of a saw to sever the lower end of the column.

1,453,041. CONDENSER. MAX DONAUER, Elyria, Ohio, assignor to The Elyria Enameled Products Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 10, 1920. Serial No. 364,639. 5 Claims. (Cl. 227—245.)

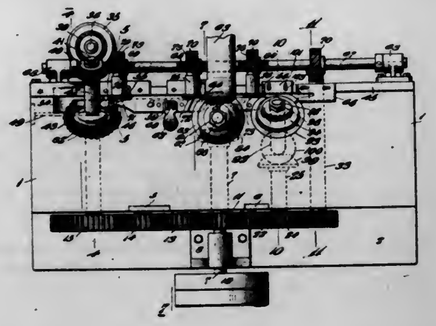


1. A condenser element consisting of a dished top plate having an opening in the bottom of the dished portion, a bottom plate having an opening in alignment with the first-mentioned opening, walls joining said plates at their periphery to form a chamber for cooling fluid, and walls joining said plates adjacent the edges of said openings to form a passage through the element.

1,453,042. PROCESS AND MACHINE FOR MAKING RANDS. JOHN F. DUGAN, Philadelphia, Pa., assignor to Laird, Schober and Co., Philadelphia, Pa., a Firm. Filed Aug. 26, 1922. Serial No. 584,402. 10 Claims. (Cl. 12—67.)

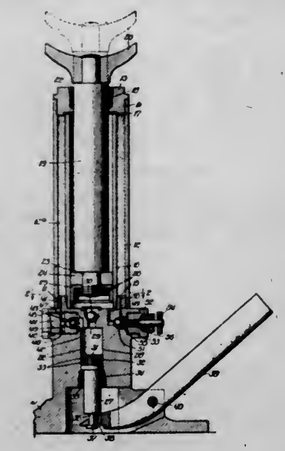
6. A machine for making rands from the offal strip of a block stock, in which are combined:—means for

continuously pressing and feeding forward against and along a guiding device or guideway an offal strip:—a guideway;—means for cutting off in a plane parallel with that of its opposite side the near side of the strip while the latter is being pressed against and advanced along



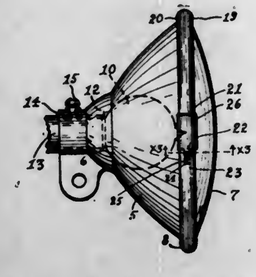
the guideway and expelling laterally from the machine said near side;—means for cutting off and expelling from the machine a uniform top portion of the strip;—and means for obliquely dividing the strip so as aforesaid reduced in both width and depth, into two strips or rands of opposite cross-section.

1,453,043. HYDRAULIC LIFTING JACK. JOSEPH ERHARDT, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 489,933. 10 Claims. (Cl. 138—9.)



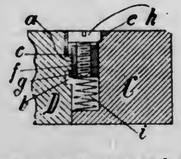
1. In a portable lifting device the combination of a member providing a base for the lifting device, said base having a fluid chamber and a pressure chamber secured thereto, a lifting element arranged in the pressure chamber, said base being provided with a chamber which communicates directly with the pressure chamber, a pump arranged in the chamber, a wall of the pump chamber providing a wall for the pressure chamber, a valve arranged in said wall, a passage leading from the fluid chamber to said pump chamber and a passage leading from the pressure chamber to the fluid chamber.

1,453,044. LAMP. HAROLD G. FITZ GERALD, Los Angeles, Calif. Filed Jan. 26, 1920. Serial No. 354,184. 2 Claims. (Cl. 240—41.)



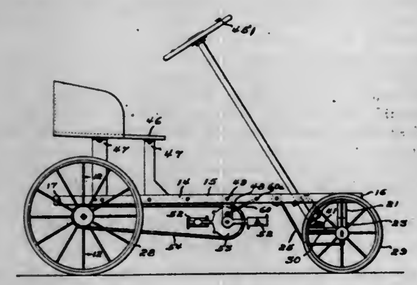
1. In a device of the character described, a casing, a glass applied to said casing, a packing element applied to said casing and glass, a U-shaped band to hold said casing and glass rigidly in position when affixed thereto, slots formed in said band adjacent one end, an inwardly extending lug formed integral with the other end which fits any one of said slots.

1,453,045. CHUCK JAW. PAUL FÖRSTER, Nuremberg, Germany, assignor to Aktiengesellschaft vorm. Adolf Finze & Co., Nuremberg, Germany. Filed Feb. 13, 1922. Serial No. 536,375. 1 Claim. (Cl. 279—123.)



A jaw part having a tongue and groove engagement with an arc shaped seat or guide and a perforation parallel to the axis of the arc and intersecting the engaging parts, a tightening piece in said perforation having a shoulder engaging a groove in the guide, a spring for yieldably pressing said shoulder against the guide and a screw for positively securing the piece in tightened position.

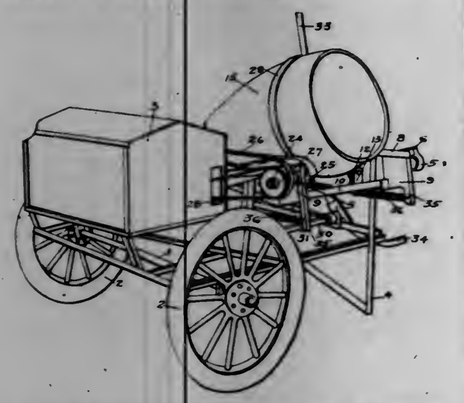
1,453,046. TOY VEHICLE. JOHN S. GABKE, Wilmington, Del. Filed June 21, 1921. Serial No. 479,185. 1 Claim. (Cl. 208—153.)



A toy vehicle comprising a frame; an axle mounted on the frame; traction wheels fixed to the axle; a sprocket fixed to the axle; hangers pivoted to the frame; a shaft bearing in the hangers; a sprocket fixed to the shaft between the hangers; a chain connecting the sprockets; blocks pivoted on the hangers; tension rods pivoted on

the frame and adjustably connected to the blocks, and means for holding the hangers in an adusted position against swinging movement in either direction.

1,453,047. CONCRETE MIXER. HENRY E. JOHNSON, Milwaukie, Oreg. Filed June 16, 1922. Serial No. 568,677. 2 Claims. (Cl. 83—73.)



1. In a concrete mixer of the type described, a mixer frame, a cradle pivoted at one end thereof and carrying a mixing container therein, levers and connecting rods mounted on said mixer frame and connected to the cradle, brackets mounted about said cradle pivota provided with levers failing in the down-ward direction, springs attached to said bracket levers and held in tension by a fastening on the mixer frame, such that said springs will operate in tension and assist in dumping the mixer container.

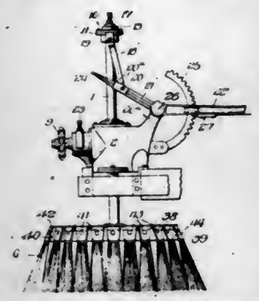
1,453,048. SPINNERET. FREDERICK G. KRAFT and CHARLES J. BACON, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 14, 1920. Serial No. 358,731. 13 Claims. (Cl. 18—8.)



1. In a spinneret, in combination, a nozzle member having an expansible open end, and an orifice member provided in its periphery with a transverse fluid channel and adapted to fit in said end, said orifice member being larger than the interior size of said end when unexpanded, whereby when said orifice member is fitted in said end, and said end expanda to receive it, the wall of said end closely contacts the periphery of said orifice member at the sides of said channel and prevents side-leakage from said channel along said periphery, and whereby upon insertion of said orifice member in said open end, said end will slide transversely of said periphery in contact therewith to clean the same.

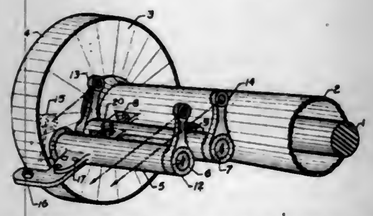
1,453,049. STREET SWEEPER. MOSES VOLNEY LIDDELL, Harvey, Ill., assignor to Austin Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,794. 9 Claims. (Cl. 74—7.)

1. In combination, a bearing box, a sleeve and a drive shaft mounted in said box, coacting bevel pinions carried, respectively, by said drive shaft and sleeve, a driven shaft having splined sliding bearing in said sleeve, and means for longitudinally positioning said driven shaft comprising a supporting head in which the driven shaft



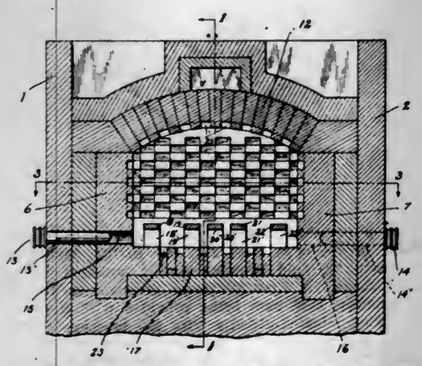
is suspended and a controlling lever having connection with said supporting head; said connection comprising an arm on said lever and a link forming with said arm a toggle lever.

1,453,050. BRAKING MECHANISM. VINCENT LINK, Detroit, Mich., assignor to Studebaker Corporation, a Corporation of New Jersey. Filed Oct. 28, 1921. Serial No. 511,050. 8 Claims. (Cl. 188—264.)



1. In combination with the rear axle of an automobile and associated braking mechanism including a brake support, a unit assemblage of brake operating mechanism having a relatively large lubricating magazine incorporated therewith and having one end of the unit socketed in the brake support and passing therethru.

1,453,051. ENAMELING FURNACE. FREDERIC C. MACKEY and JOHANN H. GUMZ, Chicago, Ill. Filed Mar. 20, 1922. Serial No. 545,159. 18 Claims. (Cl. 25—132.)



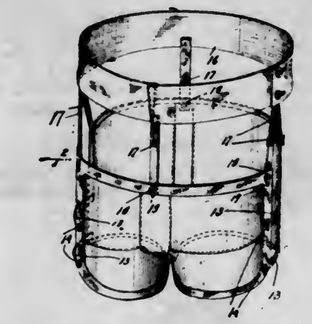
1. An enameling furnace embodying therein a refractory lining formed with a checkered surface, as and for the purpose specified.

1,453,052. HOLDER FOR DESK OR MEMORANDUM PADS. STEWART B. MEIN, Philadelphia, Pa. Filed June 7, 1922. Serial No. 566,460. 5 Claims. (Cl. 211—82.)



1. A holder for a desk or memorandum pad primarily of the form of a continuous length of paper or the like consisting of a plate composed of a front portion having a cutting edge, and means adapting it to be attached to the under side of the front cross bar of a desk or the like, a rear portion on which the length of paper is adapted to be mounted concealed beneath the top of the desk or the like, said plate having therein intermediate of said portions a horizontal passage for the paper from its support to said cutting edge, and a movably-mounted sustaining plate for retaining the paper close to said front portion of the plate adjacent to said cutting edge thereof.

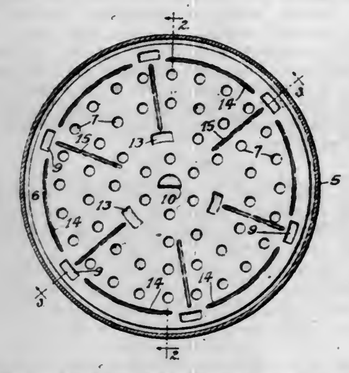
1,453,053. CATAMENIAL APPLIANCE. ISAAC NEWMAN, ISIDOR KERN, and MAMIE KERN, New York, N. Y. Filed Nov. 12, 1921. Serial No. 514,558. 6 Claims. (Cl. 128—287.)



1. In a support of the character described, the combination with a sanitary pad, of an apron like apparel capable of being folded into a bifurcated garment and having two lateral pockets to receive the sides of the pad, so that when the garment is worn the pad will rest on the crotch thereof and its sides be engaged in the pockets which extend downwardly around the inner sides of the legs of the wearer.

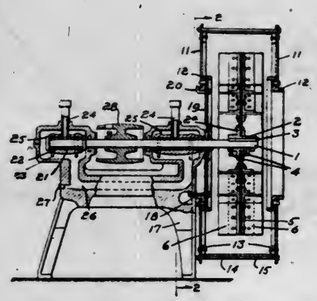
1,453,054. FALSE BOTTOM FOR COOKING UTENSILS. GUSTAVE P. NORDSTROM, Chicago, Ill. Filed Nov. 28, 1921. Serial No. 518,118. 1 Claim. (Cl. 53—1.)

A device of the class described consisting of a circular perforated flat plate having near its periphery a plurality of spaced depending legs punched therefrom and near its center a plurality of spaced depending legs punched therefrom, the said legs intersecting radial lines extended from the center of the plate and presenting one of their faces towards said center, the said legs adapted to rest on the bottom of a vessel for supporting the plate thereon at a distance therefrom, said plate also having near its periphery a plurality of spaced segmental ribs punched downwardly therefrom and located one between each pair of said peripheral legs, said plate also having a plurality of radially disposed ribs punched



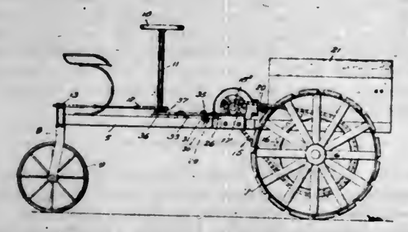
downwardly therefrom and centrally with an upwardly extended lip punched from the plate to provide means for removing the same from a vessel.

1,453,055. CENTRIFUGAL FAN. FRANK PHELPS, Little Rock, Ark., assignor to L. C. Barnett, Duluth, Minn. Filed Aug. 9, 1915. Serial No. 44,365. 4 Claims. (Cl. 230—11.)



1. In a centrifugal fan, a casing comprising side plates having outwardly facing shoulders on their proximate sides, a peripheral wall member mounted upon said shoulders and spacing the side plates apart, and tie members extending from one side plate to the other just outside such peripheral wall and holding the latter in place on the said shoulders.

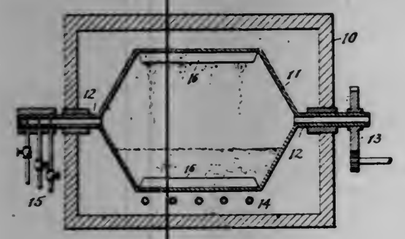
1,453,056. TRACTOR. GEORGE P. RISSER and ALBERT P. WILLIAMS, Seattle, Wash. Filed Feb. 10, 1921. Serial No. 443,817. 1 Claim. (Cl. 180—18.)



In a tractor, a guide wheel oscillatable about a vertical axis, a steering post operatively connected to said

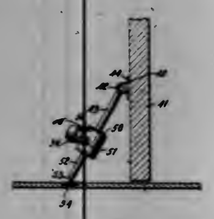
guide wheel for regulating the latter, an axle, two traction wheels rotatably mounted thereon, power operated means including two clutches for driving the respective traction wheels, means for releasably retaining said clutches in their engaged relations, two rock shafts operatively connected with the detachable members of the respective clutches, links connected from one arm of each to the respective rock shafts, a lever connected to the other ends of said links, and a cam operated by said steering post for oscillating the lever to uncouple said clutches selectively.

1,453,057. PROCESS OF MAKING IRON, STEEL, OR STEEL ALLOYS. JOSEPH A. WILLIAMS, Cleveland, Ohio. Filed Dec. 6, 1920. Serial No. 428,583. 14 Claims. (Cl. 75—50.)



1. The process which comprises oxidizing iron or steel scrap so as to produce iron oxide in finely divided form, reducing the oxide to powdered metallic iron, and subsequently treating the metallic iron so as to produce a solid metallic body.

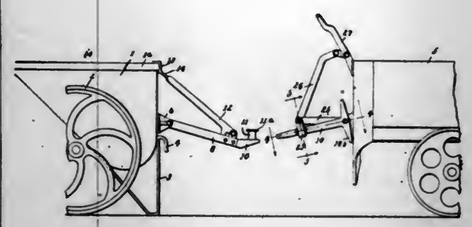
1,453,058. BURGLAR ALARM. ARNOLD ZUKOR, New York, N. Y. Filed Sept. 5, 1922. Serial No. 586,161. 1 Claim. (Cl. 116—13.)



The combination with a door, of a bar attached thereto at its upper end and carrying at its lower end a piston, a cylinder in which said piston is slidably arranged, a second bar fixed to said cylinder for engagement with the floor adjacent the door, the longitudinal axes of said bars forming a continuation of one another, a bell carried by said cylinder, a pin mounted upon said piston and adapted, when moved, to operate said bell, and a spring within said cylinder bearing on said piston for normally holding said pin disengaged from said bell.

1,453,059. COUPLING. CARL J. BLASS, Lakewood, Ohio, assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed Aug. 4, 1919. Serial No. 315,079. 8 Claims. (Cl. 280—33.15.)

1. A coupling device comprising two cooperating parts, one of said parts including an upstanding post, the other of said parts comprising a pair of jaws, said jaws being mounted to permit relative movement toward and from

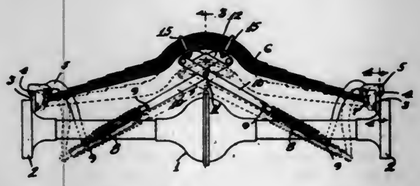


each other and movementk as a unit about a pivot, means cooperating with said jaws for moving them together, and also for moving said jaws about said pivot.

1,453,060. CONVERSION OF AMMONIA INTO AMMONIUM CHLORIDE. CARL BOSCH, Ludwigshafen-on-the-Rhine, ERICH DEHNEL, Rossen, near Merseburg, and CARL KIRCHER, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany, a Corporation of the Grand Duchy of Baden. Filed July 9, 1920. Serial No. 395,150. 3 Claims. (Cl. 23—13.)

1. The process of transforming synthetic ammonia into a salt for use as a fertilizer by employing such ammonia in the ammonia soda process and withdrawing from the bicarbonate mother liquor ammonium chlorid by alternately concentrating removing the sodium chlorid separated and cooling to precipitate ammonium chlorid.

1,453,061. VEHICLE SPRING. EDWARD BRUNDIGE, Chicago, Ill. Filed Feb. 2, 1922. Serial No. 533,572. 2 Claims. (Cl. 267—17.)

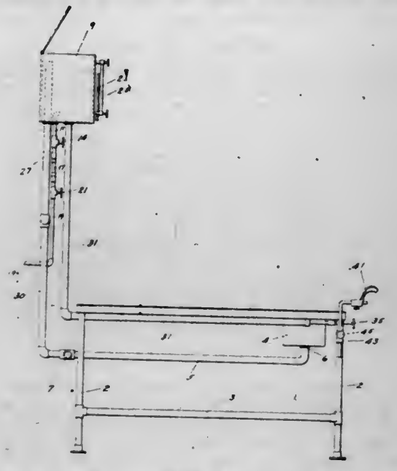


1. In a vehicle, a pair of spaced supports, levers pivoted at one end to said supports, a leaf spring having its ends attached to intermediate points of said levers, coil springs attached to the free ends of said levers, and toggle links connecting said coil springs with the central part of said leaf spring.

1,453,062. SURGICAL TABLE. ELBERT E. CARLE, Portland, Oreg. Filed Apr. 23, 1920. Serial No. 375,921. 7 Claims. (Cl. 45—50.)

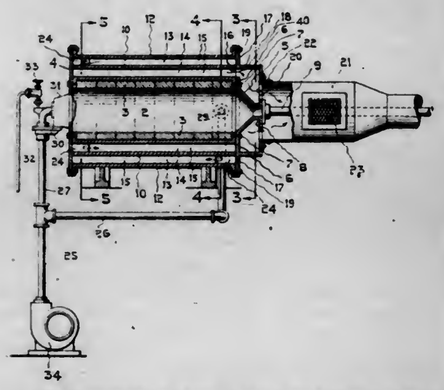
1. In apparatus of the kind described, the combination with an operating table having an unobstructive top in operative communication with a drain, of a reservoir elevated above the table, valve controlled intercommunicating pipe connections adapted through commingling

contributions at different temperatures to supply tempered water to the interior of the reservoir, and means



of service supply controllable by an operator from the foot of the table for drawing off the liquid contents of the reservoir.

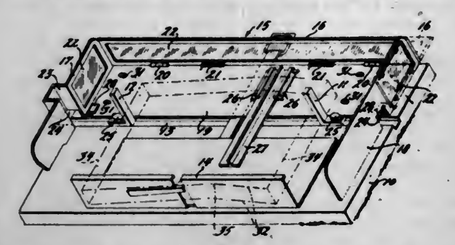
1,453,063. HOT-AIR FURNACE. JOHN CHALMERS, Vancouver, British Columbia, Canada. Filed Nov. 16, 1921. Serial No. 515,607. 5 Claims. (Cl. 126—116.)



1. The combination with a heat generating chamber; and a continuous air conductor surrounding the chamber, said conductor comprising a series of longitudinal passages of segmental cross-section collectively forming an annular unit surrounding the heat generating chamber, each passage having an inlet at one end and an outlet at its opposite end, the outlet communicating with the inlet of the next succeeding passage thereby forming a continuous zigzag conductor, a blower located in position exteriorly of the furnace, and means effecting communication between the air conductor and blower for the purpose of supplying fresh air thereto.

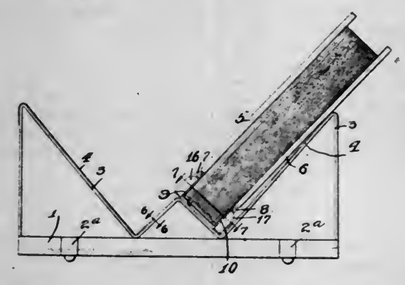
1,453,064. SHEET GUARD FOR PLATEN PRESSES. ABRAHAM DANSIGER, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,429. 8 Claims. (Cl. 271—61.)

1. A guard of the character described and for the purpose specified adapted to rest upon the sheet receiving platform of a printing press so as to prevent air currents from dislodging the sheets therein contained and other



means associated with said guard, and adapted to be disposed either longitudinally or transversely thereof so as to prevent the sheets from curling at the edges.

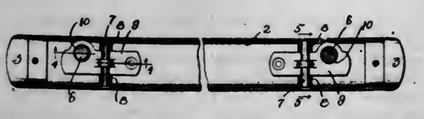
1,453,065. COMBINED STAND AND BINDER AND METHOD OF USE. CHARLES R. FARGO, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1915. Serial No. 40,183. 11 Claims. (Cl. 129—1.)



6. The combination with a loose leaf ledger having separable covers, of a base, and unitary members thereon each adapted to receive said covers disposed in opposite relation to one another thereon.

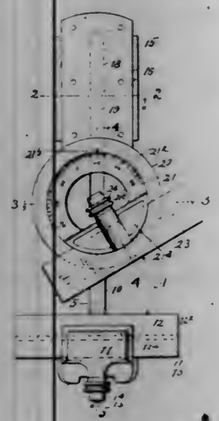
11. In a temporary binder the combination of clamping members having opposed post sockets in their inner faces, means for detachably connecting said clamping members, and a removable post adapted to be engaged in said sockets in said clamping members.

1,453,066. BINDER-LOCKING MECHANISM. CHARLES R. FARGO, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1917. Serial No. 160,685. 2 Claims. (Cl. 129—12.)



1. In a temporary binder, a hollow binder plate having holes in its walls, impaling posts through said holes traversing said binder plate, sheet metal levers each having a hole through which one of said posts goes, pintles for said levers secured in the walls of the binder plate and crossing the same at right angles to the posts, the planes of the sheet metal levers being each parallel to its pintle, and loops struck from the sheet metal of the levers and forming holding means for pivotally securing said levers each to its pintle.

1,453,067. UNIVERSAL TAPER PROTRACTOR. GUSTAVE H. FELSKE, Cleveland, Ohio. Filed July 26, 1922. Serial No. 577,520. 3 Claims. (Cl. 33—97.)



1. A universal taper protractor comprising a portable holder having a pair of blades disposed opposite each other, one blade being normally fixed, a slide movable toward and from said normally fixed blade, and a rotatable protractor carried by said slide, said protractor having a blade carrying portion in which said second blade is mounted and is adjustable in an endwise direction, and having also clamping means by which said second blade may be clamped in any adjusted position.

1,453,068. CROZE RING FOR BARRELS. STANTON W. FORSMAN, Los Angeles, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Mar. 7, 1921. Serial No. 450,386. 1 Claim. (Cl. 217—76.)

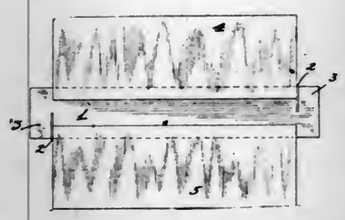


A closure heading and binding band comprising a single integral piece of sheet metal shaped to form an inwardly presented channel portion to receive a closure head, and a downwardly presented gradually widening channel portion to receive a closure wall, the outer wall of the downwardly presented gradually widening channel portion being flared outward at its lower edge.

1,453,069. MANUFACTURE OF UREA. WILHELM GAUS, WILHELM MEISER, and ERNST EBERHARDT, Ludwigshafen-on-the-Rhine, Germany, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany, a Corporation of Germany. Filed Aug. 1, 1921. Serial No. 489,070. 2 Claims. (Cl. 260—125.)

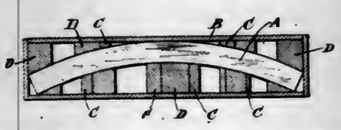
2. The process of producing urea which consists in heating an ammonium carbonate solution under pressure, liquefying the vapors to form a melt of moist ammonium carbamate and heating the melt to urea-producing temperature, while still under the pressure generated by the expelling by heat.

1,453,070. COLLAR WRAPPER. EDMUND F. JANTZ, Chicago, Ill. Filed June 6, 1921. Serial No. 475,195. 2 Claims. (Cl. 228—87.)



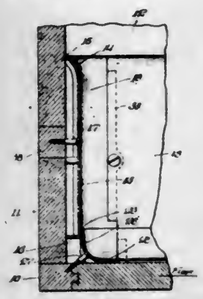
1. In a collar container, a strip of stiff wrapping material having slots near each end thereof at right angles to the length of said strip whereby said ends may be secured together, and wings of flexible wrapping material attached to the long edges of said strip and stopping at said slots, the width of said strip being greater than the height of a standard collar and the length being less than the circumference of such a collar.

1,453,071. FORMING AND FORM-RETAINING MEANS FOR PLASTIC, OR SEMIPLASTIC, OR SIMILAR MATERIALS. WILLIAM KLEEMAN, Hartwell, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Mar. 8, 1922. Serial No. 541,888. 4 Claims. (Cl. 18—48.)



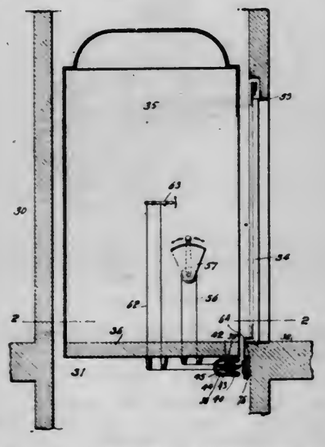
1. An arc forming and crating device, for plastic slabs, consisting of means for supporting a slab and removable wedge shaped means adapted to give the desired curve to the slab and retain same.

1,453,072. METALLIC BASEBOARD STRUCTURE. GEORGE A. KNAPP, Chicago, Ill., assignor to Knapp Brothers Manufacturing Company, a Corporation of Illinois. Filed June 23, 1921. Serial No. 479,735. 4 Claims. (Cl. 189—85.)



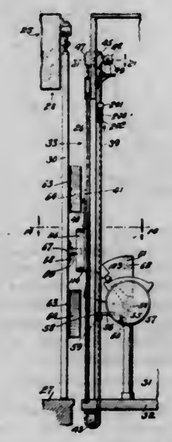
2. A metal base board comprising a face plate for attachment to a vertical wall having its lower edge spaced away from the floor and a cove strip having its upper edge overlapping the lower edge of the plate and having its lower edge in contact with a floor and secured to the floor to compensate for relative vertical displacement of the members.

1,453,073. SAFETY MECHANISM FOR ELEVATOR-SHAFT DOORS. GUSTAVE G. LAUREYNS, Newark, N. J. Filed Dec. 3, 1919. Serial No. 342,240. 18 Claims. (Cl. 187—50.)



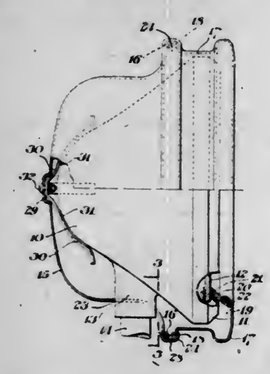
5. In safety appliances for elevator shaft doors, elevator cars and elevator shafts, a latch for the door, motive control means on the car, magnetic means on the car for freeing said latch and rendered operable on the movement of said control means to arrest the car, a locking bar in the shaft exposed to the magnetic force and locking means on the car connected with said control means to interlock with said bar when the bar is drawn thereto by the magnetic force, for locking said control means against movement.

1,453,074. SAFETY APPLIANCE FOR ELEVATOR-CAR GATES AND ELEVATOR-SHAFT DOORS. GUSTAVE G. LAUREYNS, Newark, N. J. Filed Nov. 9, 1920, Serial No. 422,764. Renewed Dec. 8, 1922. 14 Claims. (Cl. 187—52.)



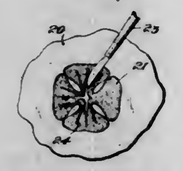
5. In mechanism of the character described comprising an elevator car having a gate, an elevator shaft, and shaft-doors at the floors of the building, locking devices at the shaft side of said doors for locking them closed, means on said gate for engaging said devices when said gate is opened and releasing them and moving said doors, respectively, to open position and holding them open, and means on the car independent of the car control mechanism for opening and closing said gate and therethrough the shaft doors, the means on said gate for engaging said locking devices comprising wings hinged to fixed abutments, sliding plates on said gate, links connecting said plates and wings and adapted to move said wings to open position as said plates are respectively moved on the opening and closing movements of said gate, means operable from the gate operating mechanism for alternately sliding said plates to open their respective wings, and a spring for closing said wings after they have performed their duty.

1,453,075. ORNAMENTAL CASING FOR AUTOMOBILE HEADLIGHTS. NORMAN J. LEIDY, Philadelphia, Pa. Filed Oct. 7, 1921. Serial No. 506,122. 7 Claims. (Cl. 240—41.)



1. The combination with an automobile headlight including a casing, of an auxiliary casing surrounding and supported by the rear portion of said headlight casing, a ring surrounding and bearing against the front portion of said headlight casing, and means for connecting said ring and auxiliary casing.

1,453,076. PROCESS FOR ORNAMENTING SURFACES. ARTHUR H. LEVINE, New York, N. Y. Filed Sept. 2, 1921. Serial No. 497,938. 3 Claims. (Cl. 41—29.)

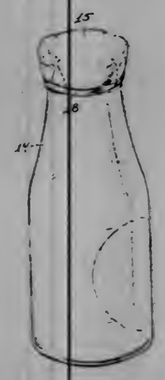


1. In the art of ornamenting surfaces, the process of producing the design by the use of a "resist" which comprises the steps of forming the gross design by deposition of the resist and forming the finer design portions by removing portions of the resist so deposited.

1,453,077. CLOSURE FOR CONTAINERS. WESLEY W. MASON, Baltimore, Md. Filed Jan. 19, 1922. Serial No. 530,324. 4 Claims. (Cl. 215—45.)

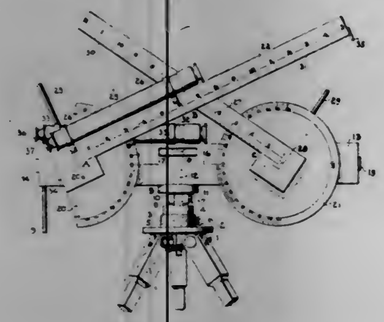
1. A closure for containers comprising a non-resilient flexible covering to seat over the mouth of a container and extend downwardly from said mouth in the form of a skirt or flange and a foldable non-resilient metallic

element attached to and carried by the said skirt or flange and foldable with said skirt or flange when the latter is contracted beneath the closure-mouth,—the folding of the metallic element producing a shortening there-



of, said metallic element having the characteristic of retaining substantially the folded shape to which it is bent whereby its folds will hold the contracted skirt or flange in close engagement with the container below the mouth of the latter.

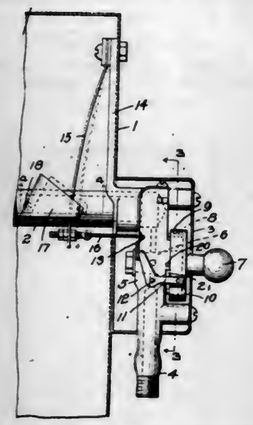
1,453,078. INSTRUMENT FOR THE SURVEY AND SOLUTION OF PLANE TRIANGLES IN FIELD WORK. WILLIAM S. MOSES, Onamia, Minn. Filed Aug. 22, 1921. Serial No. 494,200. 8 Claims. (Cl. 33—67.)



1. A surveying instrument comprising, in combination, a base-line bar, graduated arms pivotally mounted at spaced fixed points on the base-line bar, the distance between said points representing a unit base of a numerical triangle, the other two sides of the triangle being formed by the adjacent edges of the pivoted arms, means for rotating the pivoted arms, and telescopes one of which is collimated with the base-line bar and the other with a pivoted arm.

1,453,079. SAFETY VALVE. ROBERT E. NEWELL, Irwin, Pa. Filed Sept. 20, 1919. Serial No. 325,206. 9 Claims. (Cl. 67—116.)

1. In combination with a fuel burner, a valve, a thermostat controlling said valve and a shield adapted to concentrate the heat of said burner on said thermostat until the latter is heated and then to move with said

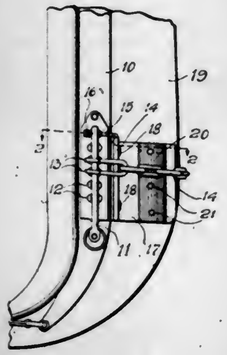


thermostat to a position where said thermostat will be heated by radiation only.

1,453,080. SOLDERING FLUX. HARRY A. PALLADY, Seattle, Wash. Filed Aug. 21, 1922. Serial No. 583,366. 1 Claim. (Cl. 148—23.)

A soldering flux comprising zinc chloride 44.44%, tin amalgamated 33.33%, sal ammoniac 21.90% and glycerine .33%.

1,453,081. HAME. ROAM PALMORE, Rison, Ark. Filed Apr. 17, 1922. Serial No. 553,536. 1 Claim. (Cl. 54—30.)

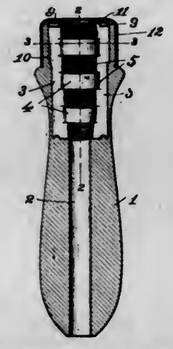


The combination with a hame of a metallic wear bar means to attach the wear bar removably to the hame in such manner that the edge of the wear bar extends beyond the lines of the hame, a flexible sheet rigidly secured to the bar, and a metallic wear plate permanently secured to the flexible sheet and spaced from the wear bar in position to receive the wear of the trace carried by the hame in the usual manner.

1,453,082. TOOL HANDLE. HEYMAN ROSENBERG, New York, N. Y. Filed Dec. 17, 1921. Serial No. 522,995. 5 Claims. (Cl. 279—99.)

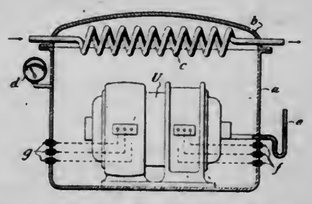
1. A tool handle comprising a body and an anchoring sleeve engaging the body and formed from oppositely-

disposed outstanding strips of a single sheet of material, the strips being curved for jointly forming substantially



the equivalent of a sleeve and being inclined at an angle to the planes of the faces of the sheet of material for giving a taper to the sleeve.

1,453,083. ELECTRIC MACHINE. MAX SCHULER, Neumuhlen, near Kiel, Germany, assignor to Anschutz & Co., Neumuhlen, near Kiel, Germany. Filed Oct. 25, 1916. Serial No. 127,682. 1 Claim. (Cl. 171—252.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In combination, a casing having an electric machine therein; hydrogen gas in said casing as a cooling medium; and means within said casing for cooling the hydrogen.

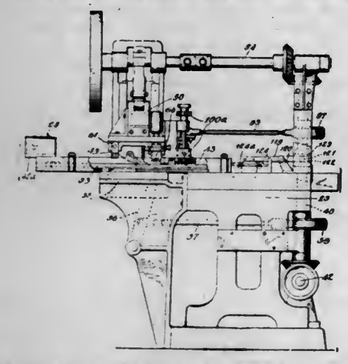
1,453,084. LONG-SPAN BRIDGE. JOSEPH B. STRAUSS, Chicago, Ill. Filed Dec. 27, 1921. Serial No. 524,832. 9 Claims. (Cl. 14—19.)



1. A bridge comprising separated cantilever arms extending towards each other and over the space to be spanned and terminating above the floor of the bridge, anchor cantilever arms extending from the supports of the first-named arms to the shore piers, and cables suspended between and secured to the extremities of said first-named arms, said cables supporting and extending over, at least one-half the total length of the span.

1,453,085. PINTLE-INSERTING MACHINE. CHARLES V. STRICKLAND, Winston-Salem, N. C., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C., a Corporation of New Jersey. Original application filed July 29, 1919, Serial No. 314,013. Divided and this application filed June 22, 1921. Serial No. 479,585. 10 Claims. (Cl. 29—11.)

1. In a machine of the class described, the combination with a container body forming machine having a guideway, of a blank conveyor adapted to deliver pintled



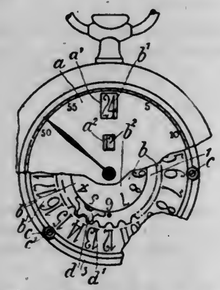
blanks to said guideway, and means for attaching pintles to blanks on said conveyor.

1,453,086. TIME INDICATOR. ANDRÉ VARAUD, Vesenaz, near Geneva, Switzerland, assignor to Société Anonyme d'Horlogerie et Bijouterie de Genève, Geneva, Switzerland, a Company of Switzerland. Original application filed Aug. 11, 1920, Serial No. 402,920. Divided and this application filed Nov. 5, 1921. Serial No. 513,120½. 12 Claims. (Cl. 58—128.)



1. In a time indicator and in combination with a casing and a motor mechanism, a fixed dial having an opening therein, a revoluble dial having chronometric indications thereon visible through the opening in the fixed dial, a cylinder escapement for controlling the movement of the revoluble dial, a cannon pinion, and means operated by the cannon pinion for turning the revoluble dial a predetermined portion of a revolution when released by the said escapement.

1,453,087. TIME INDICATOR. ANDRÉ VARAUD, Vesenaz, near Geneva, Switzerland, assignor to The Société Anonyme d'Horlogerie et Bijouterie de Genève, Geneva, Canton of Geneva, Switzerland, a Company of Switzerland. Original application filed Aug. 11, 1920, Serial No. 402,920. Divided and this application filed Nov. 5, 1921. Serial No. 513,121½. 8 Claims. (Cl. 58—128.)



1. In a time indicator and in combination with a casing and a motor mechanism, a fixed dial having an

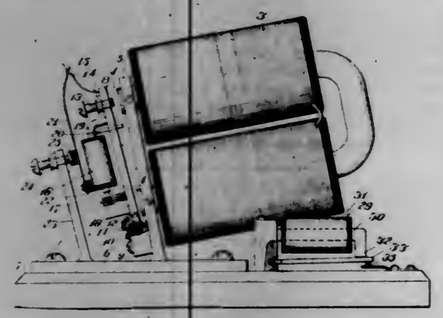
opening therein, a revoluble dial having chronometric indications thereon visible through the opening in the fixed dial, a cannon pinion, an escapement wheel, an escapement anchor, means actuated from the cannon pinion for operating the escapement anchor in one direction, yielding means for actuating the escapement anchor in the opposite direction, and means for moving the said revoluble dial a predetermined portion of a revolution when the said escapement anchor releases the said escapement wheel.

1,453,088. CHAIN LINK. JOSEPH E. BACHMAN and RAY A. BACHMAN, Bethlehem, Pa. Filed Dec. 3, 1921. Serial No. 519,795. 2 Claims. (Cl. 74—32.)



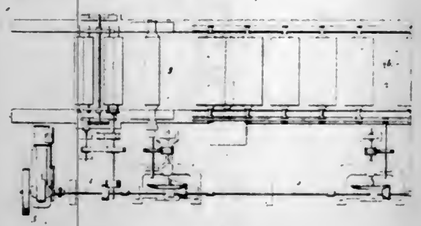
1. A chain including a plurality of solid links, and a plurality of open links arranged in alternate relation, a pair of headed studs formed at each end of each solid link, each open link comprising a pair of side bars, each side bar having an elongated, semi-circular ended opening at each end to receive the headed studs, and said openings being countersunk for a portion of their circumference to provide recesses in which to receive these heads, the countersunk portion having a diameter slightly greater than the major length of the stud head.

1,453,089. ELECTRIC-CIRCUIT CONTROLLER. STANLEY C. BRYANT, Chicago, Ill. Filed Aug. 6, 1921. Serial No. 490,398. 3 Claims. (Cl. 200—90.)



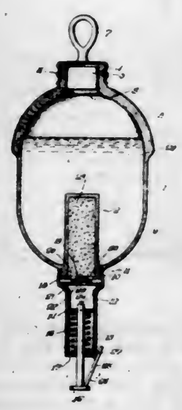
3. An electric circuit controller comprising an electromagnet, an armature therefor adapted to swing away from the poles of said magnet by gravity when said magnet is deenergized, an auxiliary electromagnet carried by said armature and having a pole adapted to magnetically engage said armature, the pole of said auxiliary magnet being adapted to swing away from said armature by gravity, means for moving the pole of said auxiliary magnet out of engagement with said armature when the latter reaches a predetermined position under the influence of said main electromagnet, and switch members carried by said armature and by said auxiliary electromagnet, said switch members being arranged to be in operative contact with each other when the pole of said auxiliary magnet engages said armature, and to be separated from each other when said pole is disengaged from said armature.

1,453,090. PAPER-MAKING MACHINE. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to A. P. W. Paper Co., Albany, N. Y., a Corporation of New York. Filed May 9, 1919. Serial No. 295,828. 3 Claims. (Cl. 92—38.)



1. In a paper making machine, a plurality of machine elements adapted to perform successive operations in making a paper web, and an adjustable mechanism for driving said elements at the desired relative speeds, said mechanism comprising a line shaft extending longitudinally of the machine, friction cones carried by said line shaft respectively adjacent said elements, means permitting each of said cones to slide longitudinally relative to the line shaft as a whole, friction gears respectively engaging said cones, means for transmitting motion from said gears to their respective machine elements, and means for adjusting the longitudinal position of each of said cones relative to the line shaft as a whole, to vary the speed ratio between the line shaft and corresponding machine elements.

1,453,091. MEANS FOR EXTINGUISHING FIRE. HECTOR E. DELBARE, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,625. 1 Claim. (Cl. 169—28.)



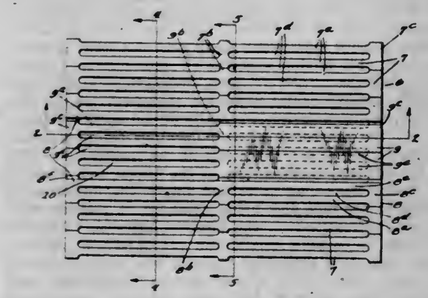
A fire extinguisher comprising a glass receptacle to contain extinguishing material having an integral cylinder to contain an explosive, open at its outer end and having a neck around the opening; a metal cylinder secured to the neck; a pair of disks having perforations out of register, adjacent the neck and within the metal cylinder; a percussion-cap within the metal cylinder and between the disks; a striker-pin in said metal cylinder arranged to pass thru one said disk; a spring to potentiate said pin and within the metal cylinder, and a low melting solder to hold the pin retracted.

1,453,092. CUSHION WHEEL. PHILIP H. DORSEY, Algiers, La. Filed Oct. 2, 1920. Serial No. 414,295. 1 Claim. (Cl. 152—48.)



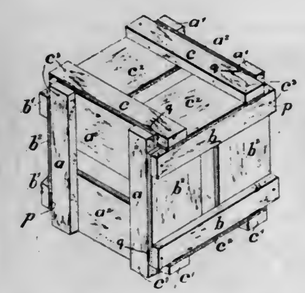
A resilient wheel comprising a hub-block provided with a series of pockets in combination with a series of compression blocks slidably mounted in said pockets, a post carried by each block, resilient means acting oppositely on said compression blocks, a felly, a driving ring extending radially inward therefrom and disposed midway between the opposite sides of said felly, a plurality of spoke sections alternately radially oppositely offset, pivotal connections between one end of each of said spoke sections and said drive ring, pivotal connections between the opposite end of each spoke section and one of the aforesaid posts, rings connected to said felly and extending radially inward and having their inner edges bevelled to provide clearance for the aforesaid spoke section in their flexing movements, annular casing plates slidably engaging said hub-block, each said plate being provided with a large central opening permitting easy access to the hub cap and end of the axle while all parts of the wheel and casing are in assembled relation, and connections between said casing plates and the aforesaid rings.

1,453,093. FURNACE GRATE. GEORGE C. EHRBAR, Cleveland, Ohio. Filed June 29, 1921. Serial No. 481,290. 1 Claim. (Cl. 126—152.)



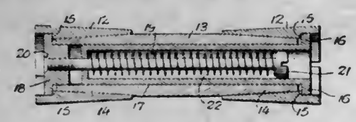
A furnace grate comprising side sections and an intermediate section therebetween, each side section consisting of spaced bars provided with spacing lugs at the ends and the middle thereof, the intermediate section being depressed thruout its entire length below the level of the side sections and consisting of bars having depending cross webs 9^b at the middle thereof, that part of the bars in front of said webs being spaced apart, and that part of the bars in the rear of said webs having laterally extending tops 9^c meeting to form a closed rear part of said intermediate section.

1,453,094. PACKING CASE. ROBERT HENRY ELLIS and FRANK SIMPER, Fremantle, Western Australia, Australia. Filed Sept. 11, 1922. Serial No. 587,536. 1 Claim. (Cl. 217—12.)



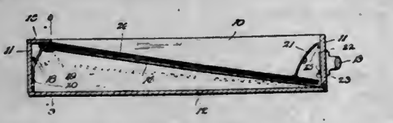
A packing case comprising frame members, wall members and straps; said frame members extending across the outside of the ends of wall members on all sides of the case and being inset adjacent their ends, said frame members holding the wall members against the edges of frame members on adjacent sides, said straps running parallel with said frame members on the opposite sides of said wall members and lying in the insets in the ends of the frame members.

1,453,095. PISTON PIN. JOHN C. ENGSTRAND, Chicago, Ill. Filed July 27, 1922. Serial No. 577,903. 4 Claims. (Cl. 74—108.)



1. The combination with a piston having inwardly and oppositely tapered diametrical bearing bores, a wrist pin therein having oppositely tapered bushings mounted upon its opposite ends and disposed within the said bores, and means also supported by the said pin for automatically adjusting the bushings as and for the purpose set forth.

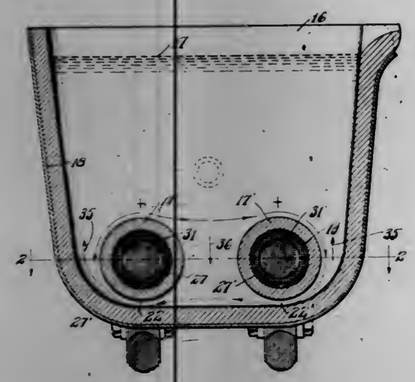
1,453,096. LETTER FILE. EDWARD ERICKSON, Fresno, Calif. Filed Apr. 18, 1922. Serial No. 554,941. 3 Claims. (Cl. 129—35.)



1. A device of the character described including a casing, a cross strip carried thereby, a clamping plate mounted at one end within the casing to extend at its opposite end beneath said strip, a spring secured in the casing below the latter end of the plate and bearing

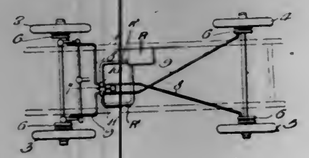
against the same to urge it toward the strip, and a spring mounted upon the casing above the opposite end of the plate to bear against a sheet overlying the plate.

1,453,097. MULTIPLE-UNIT INDUCTION FURNACE. CHARLES B. FOLEY, Bristol, Conn., assignor to Charles B. Foley, Inc., New York, N. Y., a Corporation of New York. Original application filed Dec. 28, 1916, Serial No. 139,437. Divided and this application filed Mar. 13, 1920. Serial No. 365,636. 8 Claims. (Cl. 204—64.)



1. An electric furnace, comprising a receptacle of refractory material, having interior walls forming channels, and independent current-inducing means linked with said channels said current inducing means being so connected as to produce secondary electromotive forces of the same direction.

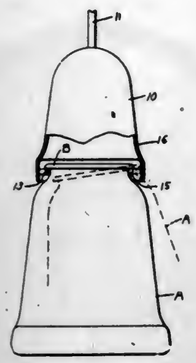
1,453,098. PRESSURE EQUALIZER FOR HYDRAULIC BRAKES. OSCAR J. FROCK, Wilmington, Del. Filed Jan. 27, 1922. Serial No. 532,088. 11 Claims. (Cl. 188—152.)



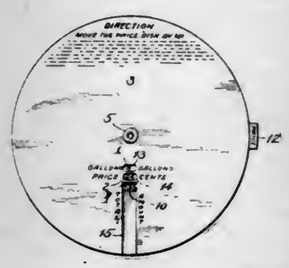
1. A brake structure comprising fluid brakes, and pressure applying means comprising separate cylinders, separate pipes connecting the brakes in pairs and connecting each cylinder with a pair of brakes to be controlled thereby, pistons in said cylinders, and common actuating means for causing movement of said pistons in an operative direction.

1,453,099. SHADE HOLDER. THEOPHILE EUPHRAT, Mount Vernon, N. Y. Filed Apr. 13, 1922. Serial No. 552,096. 4 Claims. (Cl. 240—111.)

1. A holder for a shade, comprising a fixture having an open end, and a spring secured within said end to removably retain a shade, said spring having an intermediate portion secured to the fixture and disconnected and spaced apart end portions extending from said intermediate portion and spaced from the fixture, the intermediate and end portions forming the shade support, whereby a shade can be inserted in said fixture and manipulated to swing said spring ends apart and toward the fixture when said shade is to be inserted in or removed from the fixture.

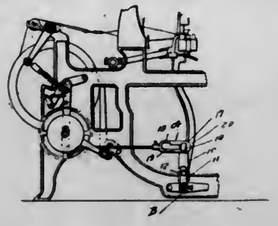


1,453,100. CALCULATING DEVICE. FRED FULGORA, Pittsburgh, Pa. Filed Jan. 17, 1922. Serial No. 529,834. 1 Claim. (Cl. 235—67.)



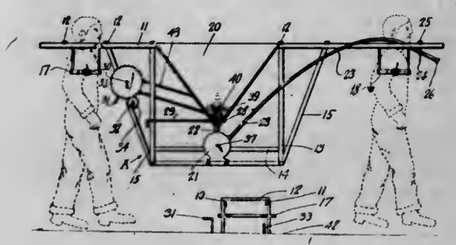
A calculator comprising a plurality of concentric pivotally-connected disks, the lowest disk having upon its face radial columns each containing a series of total cost indications and having a circular series of quantity designations spaced inwardly from the columns and each radially alined with one of the columns, an intermediate disk having an arcuate slot registering with the quantity designations on the first-mentioned disk and also having a series of price indications along said slot, said intermediate disk also having a series of slots therein radially alined with the respective price designations and at successively greater radial distances therefrom, and a facing disk having a series of radially alined openings therethrough, the innermost of said openings being arranged to register with the arcuate slot of the intermediate disk and the quantity designations on the lowest disk whereby said designations may be viewed singly, the intermediate opening in the face disk being arranged to register with the price indications on the intermediate disk to permit the latter to be read singly, and the outermost opening in the face disk extending radially and accommodating the range of the series of slots in the intermediate disk whereby when selected price and quantity designations are brought to view through the inner and intermediate openings of the face disk one of the series of slots in the intermediate disk will be caused to register with the outermost opening in the face disk and a total cost designation will be displayed through the registering opening and slot.

1,453,101. YARN LET-OFF CONNECTION. JOHN W. GILES, Greer, S. C. Filed Apr. 10, 1922. Serial No. 551,220. 2 Claims. (Cl. 139—59.)



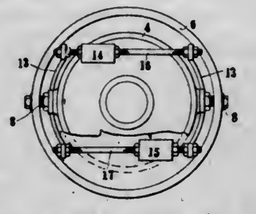
1. In combination with a let-off rod having a slot therethrough, an arm to drive said rod having a head provided with a shank and with a lug, said slot being of a size to permit passage of the lug therethrough in one position to facilitate attachment and detachment, said lug adapted to normally prevent detachment of the rod and arm, and said rod and said slot having a thickened portion to accommodate wear imposed by operation of the shank.

1,453,102. POWDER DUSTER. WILLIAM WILKINSON GOODE, Arlington, Ala. Filed May 28, 1920. Serial No. 385,052. 4 Claims. (Cl. 43—148.)



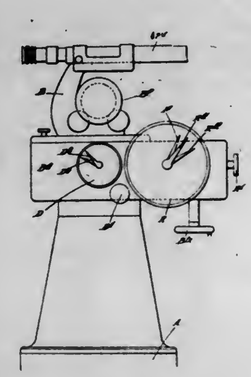
3. A powder duster comprising a carrying structure including a relatively vertical frame and horizontal carrying members projecting beyond opposite sides of the frame to provide shoulder-straddling bars adjacent the upper end, a powder spraying mechanism supported in said frame and including flexible sprayers, means operable from one side of the frame for actuating the spraying mechanism, and loops depending from the shoulder bars on the opposite side of the frame for supporting the nozzle ends of the said flexible sprayers.

1,453,103. GYROSCOPIC COMPASS. ARTHUR EDGAR GOTT, Southall, England. Filed Feb. 12, 1921. Serial No. 444,313. 18 Claims. (Cl. 33—204.)



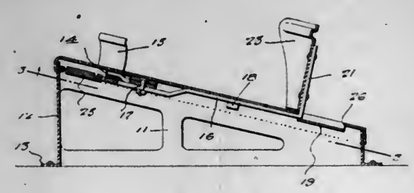
1. In a gyroscopic compass, the combination of a suspended vertical ring, a gyro case pivotally mounted therein, a gyro rotor revolubly mounted in said case and masses distributed upon the said gyro case adjustable about vertical and horizontal axes so that the maximum moment of inertia of the said case and rotor about an axis passing through the centre of gravity occurs in a vertical plane passing through the centre of gravity of the said case and rotor and containing one of the cardinal axes.

1,453,104. APPARATUS FOR USE IN THE LAYING OR SIGHTING OF ORDNANCE. PERCY WILLIS GRAY, Westminster, London, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Aug. 29, 1922. Serial No. 585,068. 10 Claims. (Cl. 235—61.)



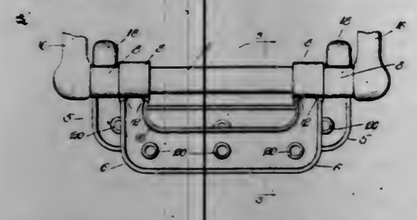
1. In a device of the type described, the combination with the training portion of a sight, of means adapted to be adjusted in accordance with the course of "own" ship, said means being actuated by the training movement of the sight.

1,453,105. BOOTJACK. WALTER C. GRUSS, Pittsburgh, Pa. Filed Sept. 29, 1922. Serial No. 591,359. 2 Claims. (Cl. 132—6.)



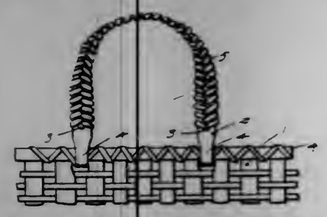
2. A boot jack comprising a foot rest, a stationary support therefor having an inclined upper edge, said foot rest having opposed slots, a bar arranged beneath the foot rest, and movable longitudinally thereof, shoe engaging members pivotally associated with said bar and movable through said slots toward and away from each other, one end of said bar extending upwardly from said foot rest, a heel engaging member secured thereto, and utilized for moving the bar in one direction, a coiled spring arranged beneath the foot rest, and normally holding the latter at the limit of its movement in the opposite direction, and a plurality of depressed portions formed on said foot rest, and constituting guides for said bar.

1,453,106. HINGE. BENJAMIN T. HAIN, Chicago, Ill., assignor to Beneke & Kropf Mfg. Co., a Corporation of Illinois. Filed Nov. 12, 1921. Serial No. 514,534. 4 Claims. (Cl. 4—18.)



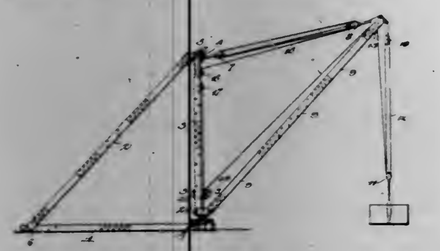
1. A hinge member comprising a flanged screw-receiving plate and an integral ligament extending from the flanged terminals thereof, having a head at its end with notches behind the head to receive part of the inturned flanges when the ligament is bent into a ring.

1,453,107. HANDLE FOR BASKETS, SATCHELS, AND LIKE CONTAINERS. WESLEY HAMM, Dolgeville, N. Y. Filed Apr. 10, 1922. Serial No. 551,330. 2 Claims. (Cl. 217—125.)



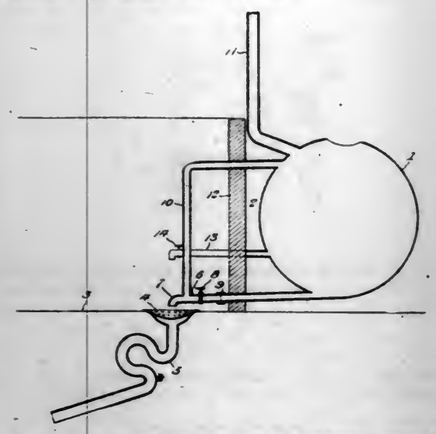
1. A handle of the character and for the purpose herein stated, the same comprising a member folded upon itself and having the fold or bight engaging the article to which the handle is applied, and having the portions adjacent the fold divided, and a binder woven about the divided portions and serving to connect the same and the folded parts.

1,453,108. DERRICK. HANS H. H. HARKLOW, Freeport, N. Y. Filed Aug. 31, 1920. Serial No. 407,140. 4 Claims. (Cl. 212—58.)



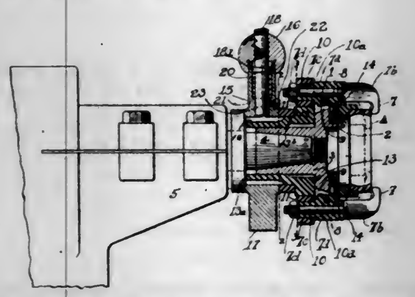
1. In a device of the class described, the combination of a plurality of beams secured together in pairs and in spaced relationship with each other, a socket member supported by said beams, a bearing supported by said socket member, a mast support rotatably supported by said bearing and provided with an element adapted to project into the socket of said socket member, and mechanical means for driving said mast support.

1,453,109. CISTERN. ROBERT W. HATHAWAY, Springfield, Ohio, assignor of one-half to Homer Powell, Springfield, Ohio. Filed July 18, 1921. Serial No. 485,491. 4 Claims. (Cl. 137—79.)



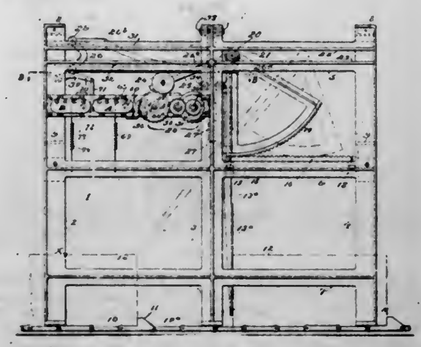
4. A cistern construction and arrangement comprising a cistern body arranged in the earth adjacent to one wall of a cellar, a drain pipe leading from the lower portion of the cistern body and provided with a valve and adapted to be connected outwardly beyond the valve with a sewer, and an overflow pipe leading from the upper portion of the cistern body to the drain pipe at a point outwardly beyond the valve of the latter; the valved portion of the drain pipe being located in the cellar.

1,453,110. CHUCK. CHARLES HIRD, Hartford, Conn., assignor to S. K. F. Ball Bearing Company, a Corporation of Connecticut. Filed Sept. 6, 1919. Serial No. 322,006. 3 Claims. (Cl. 279—106.)



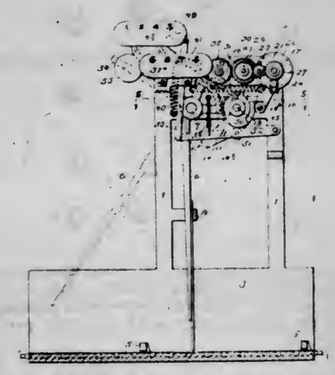
1. In a chuck, the combination of a rotary body provided with a work seat, a work clamping jaw pivoted between its ends on said body to move radially at its inner end in clamping and releasing the work at its outer end, a jaw actuating member movable circumferentially relatively to the body and provided with a peripheral cam so formed that when the actuating member is moved circumferentially in one direction the cam will engage and positively move the inner end of the jaw radially outward and cause its outer end to positively clamp the work, and when moved in the opposite direction the cam will relieve the inner end of the jaw and permit its outer end to release the work, a controlling device for the jaw actuating member in relation to which said member is freely rotatable with the chuck body, and means for releasably engaging the controlling device with the jaw actuating member at will.

1,453,111. MECHANISM FOR MEASURING THE CUBIC CONTENTS OF BODIES. PAUL V. HOLLENBECK, New York, N. Y., assignor to International Paper Company, a Corporation of New York. Filed Apr. 19, 1921. Serial No. 462,680. 16 Claims. (Cl. 33—142.)



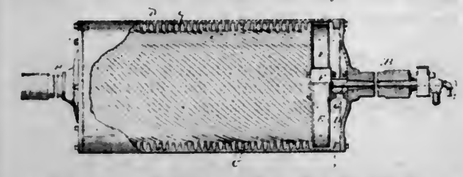
1. In a mechanism of the type described, the combination of a movable member adapted to be displaced by passing bodies to positions determined by the diameters of the respective bodies, means whereby said member is moved bodily in a direction opposite its displaced movement, a registering mechanism for registering the cubic contents of the bodies, and means operated by the movable member and operatively connected with the registering mechanism to actuate the same.

1,453,112. MECHANISM FOR MEASURING CUBIC CONTENTS OF BODIES. PAUL V. HOLLENBECK, New York, N. Y., assignor to International Paper Company, a Corporation of New York. Filed June 4, 1920, Serial No. 386,611. Renewed Oct. 26, 1922. Serial No. 597,137. 18 Claims. (Cl. 33—142.)



1. In a mechanism of the the type described, the combination of a movable member adapted to be displaced by passing bodies to positions determined by the diameters of the respective bodies, a registering mechanism for registering the cubic contents of the bodies, and means operated by the displaced movements of the movable member and operatively connected with said registering mechanism to actuate the same, said means being so formed in relation to the registering mechanism, that for bodies of a given length, the displaced movements of the movable member will operate said mechanism to register the cubic contents of the bodies.

1,453,113. DRYING CYLINDER. EDWARD HUTCHINS, New York, N. Y., assignor to International Paper Company, a Corporation of New York. Filed Feb. 18, 1922. Serial No. 537,378. 6 Claims. (Cl. 34—4.)



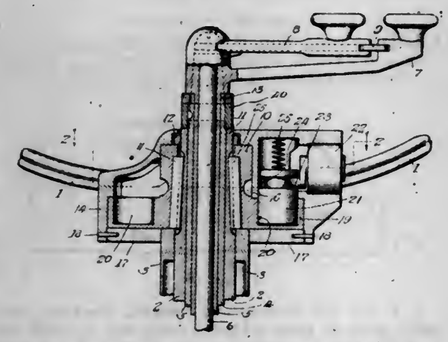
1. A drying cylinder adapted to have heating steam introduced therein, said cylinder being provided on its interior with heat conducting projections formed and arranged to be exposed to direct contact with the steam and to diffuse the heat of the steam throughout the external surface of the cylinder.

1,453,114. AIRPLANE-RIB CONSTRUCTION. JOHN W. RAPP, Flushing, and JOSEPH VANORIO, Brooklyn, N. Y.; said Vanorio assignor to said Rapp; William C. Lange temporary administrator of said John W. Rapp, deceased. Filed Dec. 19, 1917. Serial No. 207,832. 2 Claims. (Cl. 244—31.)



1. An aerofoil frame construction embodying marginal frame members and ribs secured in said marginal frame, each comprising top and bottom T-shaped members formed of a single strip of sheet metal perforated between its side edges and bent to provide an intermediate flat outer portion, return portions extending inwardly toward the center line of the strip and marginal flanges extending parallel to each other to form a seat therebetween; diagonal bracing members, each embossed along its longitudinal axis and arranged along the longitudinal axes of the said T-shaped members in single pairs, one member only of each pair crossing another, and having opposite ends seated within and abutting at opposite surfaces against the parallel marginal flanges of said T-shaped members and also having a connection to said parallel flanges.

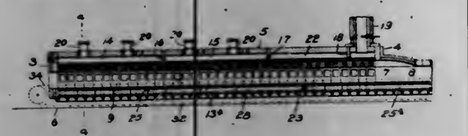
1,453,115. LOCK. SAMUEL L. TERRY, Chicago, Ill., assignor, by mesne assignments, to Terry-McCluskey Auto Lock Company, a Corporation of Illinois. Filed Feb. 1, 1910. Serial No. 274,469. 6 Claims. (Cl. 70—129.)



1. An automobile lock having a socketed head for attachment to the steering post of an automobile, a nut

for anchoring the head on the post, a steering wheel having at its axis a housing which encloses and journals on the head and also prevents access to the nut, lock mechanism for operatively connecting and disconnecting the wheel and head, and means for preventing the removal of the housing from the head.

1,453,116. ANNEALING FURNACE OR LEER. WALTER O. AMSLER, Pittsburgh, Pa. Filed May 21, 1920. Serial No. 383,256. 12 Claims. (Cl. 49—47.)



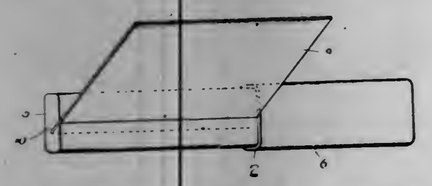
6. In an annealing furnace or leer, an annealing chamber, a tunnel in communication with the annealing chamber, a chimney disposed between the annealing chamber and tunnel, and longitudinally extending heating flues disposed below the annealing chamber and extending beyond the chimney and into the tunnel structure and exteriorly of the tunnel, said flues having connections with the chimney and arranged to produce a flow of gases from the tunnel back to the chimney.

1,453,117. DRAW CHUCK ATTACHMENT. LEONARD H. ANDERSON, Bridgeport, Conn. Filed Feb. 24, 1921. Serial No. 447,431. 1 Claim. (Cl. 279—53.)



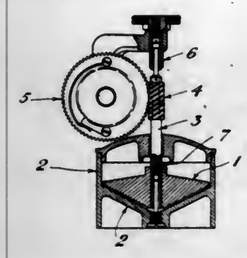
A draw chuck attachment comprising a tapered socket member adapted to be inserted in the tapered mouth of a rotating spindle, said socket member having a recessed mouth to form a bearing and a reduced threaded opening extending inwardly therefrom, and a beveled seat at its outer end, a shell having a cylindrical body journaled in the socket bearing and a head portion to form means for rotating the shell, said shell having a bevel portion to register with the beveled seat of the socket and a flared mouth, combined with a tool holding spring chuck mounted in the shell having a threaded end engaging the threaded opening of the socket and a tapered head cooperating with said flared mouth, and means for rotatably connecting the chuck with the shell.

1,453,118. TOOL FOR FORMING INSULATORS. VINCENT G. APPLE, Dayton, Ohio. Filed Apr. 4, 1921. Serial No. 458,590. 2 Claims. (Cl. 18—35.)



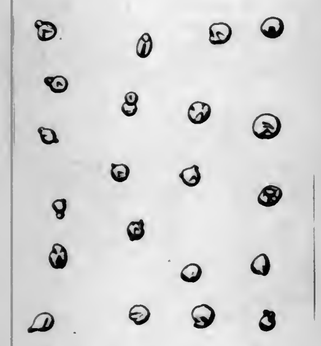
1. A tool for forming and inserting armature insulators made of sheet material, comprising a shank and a handle with a shoulder at the junction of the members, said shank being transversely slotted to receive the edge of the sheet.

1,453,119. SPEED-CONTROLLING DEVICE. ARCHIBALD BARR and WILLIAM STROUD, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Filed Feb. 10, 1921. Serial No. 443,977. 5 Claims. (Cl. 188—90.)



1. A speed controlling device comprising a rotatable member rotatable about a vertical axis and a stationary member having complementary surface portions the lower of which is recessed in close proximity forming a receptacle such that liquid within the receptacle is constrained by the surface portions into the form of a thin lamina and means for effecting relative axial adjustment of the members for varying the moment of the liquid friction involving variation of the thickness of the lamina, variation of the area of contact of the lamina with one of the members and variation of the effective radius at which the liquid acts upon the rotating member.

1,453,120. STEEL PEB. HERMANN LEROY BEAVER, Philadelphia, Pa. Filed Apr. 15, 1922. Serial No. 552,977. 2 Claims. Cl. 51—279.)

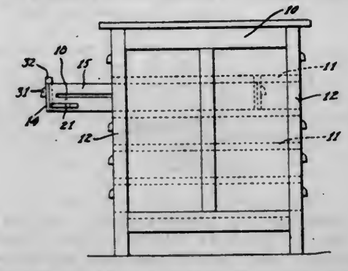


1. A metal polishing material comprising heteromorphic, asymmetrical polished metallic units, a portion of which have projections adapted to make polishing contact with the angular surfaces of the metal part to be polished.

1,453,121. DRAWER. ARTHUR M. BENNER, Olympia, Wash. Filed Nov. 29, 1920. Serial No. 427,066. 1 Claim. (Cl. 45—94.)

An article of furniture embodying a casing consisting of top, bottom and side walls, slotted guides arranged in parallel relation within the side walls, drawers slidingly mounted therein and capable of being pulled outward in either direction, the side members of each drawer having a longitudinally arranged groove registering with the guides of the side walls, and a block having its opposite ends extending within the guides and grooves to engage the opposite ends thereof to limit the outward movement of the drawer, and spring actuated

arms for holding the drawer in closed position, said arms having manually operated means connected thereto



whereby the drawer may be released to permit of its being opened.

1,453,122. TROMBONE ATTACHMENT. LEON C. BENSON, Philadelphia, Pa. Filed May 1, 1922. Serial No. 557,622. 2 Claims. (Cl. 84—395.)



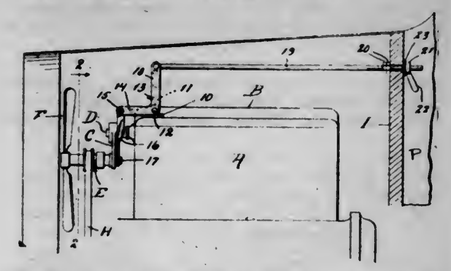
1. A counter-balance attachment for trombones comprising a substantially solid elongated body portion, axial longitudinal borings in the ends of said body portion, the inner ends whereof are screw-threaded in reverse direction, shank members for fitting in the aforesaid borings and having their inner ends reduced and screw-threaded for engagement in the aforesaid threaded counter-borings, the outer ends of said shank members being adapted for gripping engagement between opposed tubular portions of the trombone.

1,453,123. MOLD FOR RUBBER MATS, ETC. LEROY M. BICKETT, Watertown, Wis. Filed June 23, 1922. Serial No. 570,322. 5 Claims. (Cl. 18—35.)



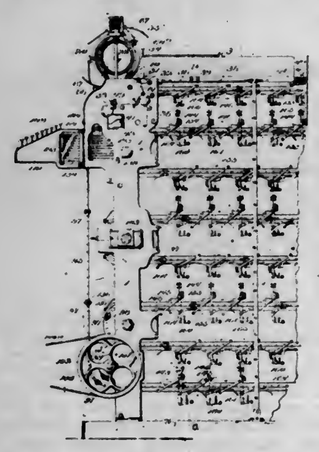
1. A mold for rubber sheets and mats comprising a plate having base and top portions composed of yielding material, and an embedded foraminous portion composed of a material which will not expand or distort laterally under vertical pressures.

1,453,124. FAN CONTROL FOR MOTOR VEHICLES. ELBERT I. BOWN, Huron, S. Dak. Filed Dec. 17, 1921. Serial No. 523,066. 5 Claims. (Cl. 123—171.)



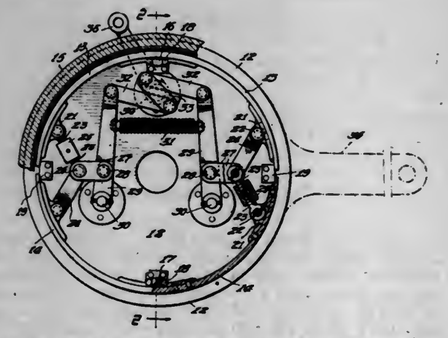
1. Means for controlling the temperature of internal combustion engines of vehicles comprising the combination with a fan for directing cooling air against the engine, and a drive belt for said fan driven from the engine, of a shiftable arm supporting the fan, and means operable from the cockpit, of the vehicle for shifting said arm to tension or loosen said belt.

1,453,125. MAIL-DISTRIBUTING APPARATUS. ARTHUR J. BRIGGS, Syracuse, N. Y., assignor to The Auto Mail Distributer, Inc., Syracuse, N. Y., a Corporation of New York. Filed May 23, 1913, Serial No. 769,438. Renewed July 17, 1922. Serial No. 575,639. 119 Claims. (Cl. 214—11.)



1. In combination, in mail distributing apparatus, a distributing case comprising rows of boxes and having a letter passage from row to row and throughout each row, an endless letter conveyer common to all of said boxes for moving letters throughout said passage and into delivering relation with every box of every row, normally-inactive letter moving mechanism on each stroke adapted to deliver a single letter to said conveyer and then come to rest, and devices, whereby said mechanism is caused to move on a letter moving stroke, and whereby the box to which said letter will be delivered by the conveyer is predetermined.

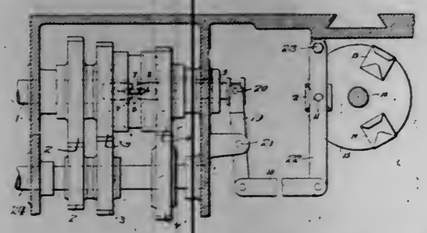
1,453,126. HUB BRAKE FOR MOTOR VEHICLES. WILLIAM GEORGE BRYAN, Sydney, New South Wales, Australia, assignor to Thomas Stuart Gurr and Percival Bernard Sheather, both of Mosman, near Sydney, New South Wales, Australia, and Cecil Roy Sweetman, Randwick, near Sydney, New South Wales, Australia. Filed Mar. 8, 1922. Serial No. 541,944. 3 Claims. (Cl. 188—78.)



3. In a brake mechanism, the combination of a pair of expansible brake shoes, a pair of toggles connected to

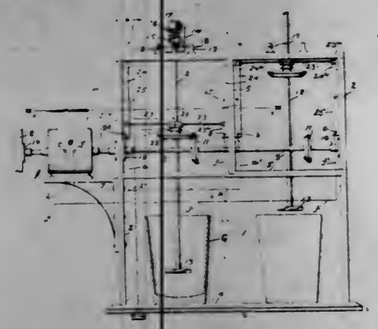
said shoes, one arm of each of said toggles comprising a turnbuckle device, means for operating said toggles to expand said shoes, and a spring acting upon the operating means for both of said toggles thereby to retire the same into inoperative position.

1,453,127. MULTISPEED GEAR FOR MACHINE TOOLS. ARTHUR BUTTERWORTH, ARTHUR BUTTERWORTH, Jr., and HAROLD BUTTERWORTH, Rochdale, England. Filed Nov. 13, 1919. Serial No. 337,843. 1 Claim. (Cl. 74—59.)



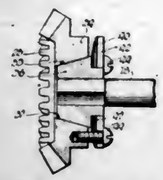
A device of the class described comprising a drive shaft, three spaced gears of varying diameter fixed thereon, a hollow driven shaft, three gears loosely mounted thereon and permanently meshing with said first three gears, the largest of said second three gears having an overruning clutch connection with said driven shaft, clutch mechanism for selectively connecting either of said two remaining loosely mounted gears to said driven shaft, said mechanism including a split-ring expanding friction lining within each gear, a pair of cam jaws arranged to operate between the free ends of each lining, the jaws of each pair being pivoted together at their outer ends and having their free ends facing an operating rod passing through said hollow driven shaft and provided with a lateral lug adapted to be selectively shifted between either pair of jaws to clutch the corresponding gear to said driven shaft.

1,453,128. DRINK MIXER. JAMES V. CARITHERS and [illegible]EY J. WILLIAMSON, Pomeroy, Wash. Filed Sept. [illegible], 1922. Serial No. 589,439. 5 Claims. (Cl. 259—131.)



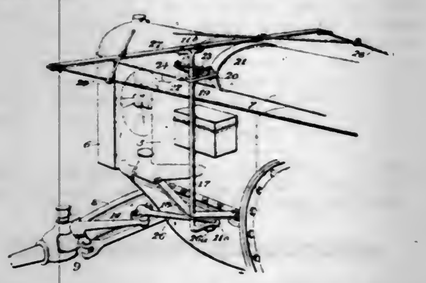
1. In a drink mixer, a casing having a horizontal wall, a power shaft journaled above the wall, a plurality of vertically slidable perpendicular mixing shafts associated with the power shaft and extending through the horizontal wall of the casing, stationary bearings through which the mixing shafts are slidable and a mixer carried by the lower end of each shaft and constantly remaining below the horizontal wall.

1,453,129. CLUTCH FOR WASHING MACHINES. WALTER J. CONLON, Oak Park, Ill. Filed Aug. 14, 1919. Serial No. 317,403. 5 Claims. (Cl. 64—99.)



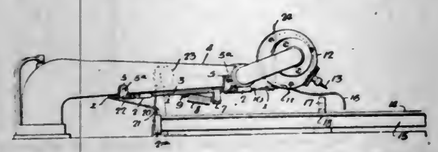
4. In combination, a driving element, a hub on said driving element, a conical bore in said hub, a conical plug engaging in said conical bore, said plug having a reduced hub extension forming an abutment shoulder, a circular pressure plate rotatably mounted on said reduced hub extension, a cup-shaped spring disk engaging said abutment shoulder and said pressure plate, said spring disk having recesses in its periphery thereby forming compression arms, said compression arms having holes therein, screws passing freely thru said pressure plate and thru the holes in said compression arms and tapping into the hub on said driving element, said screws being operable to adjust the compression pressure on said spring disk, and a driven shaft having rigid connection with said conical plug.

1,453,130. DISTANT CONTROL FOR TRACTORS. FRANK T. COURT, Walker, Iowa. Filed May 12, 1922. Serial No. 560,508. 2 Claims. (Cl. 180—77.)



1. Tractor control apparatus operable from a distance, comprising, in combination with the front axle steering-gear, a cranked upright shaft, bearing therefor, a link connecting its crank with the steering-gear, a right-and-left cross-lever attached to the shaft, pull-ropes attached to the arms of the lever, and strut-rods connecting with said ropes some distance from the arms, the struts being slidably connected with the lever arms, but limited in their inward movement, whereby leverage may always be had on the farther arm, while the nearer one may be practically in line with its pull-rope.

1,453,131. STOP DEVICE FOR TALKING MACHINES. EDWARD GRIEGER, Philadelphia, Pa. Filed Apr. 19, 1920. Serial No. 374,908. 10 Claims. (Cl. 274—15.)



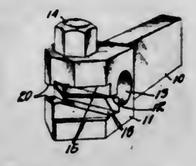
1. In a talking machine, the combination with a rotatable carriage adapted to hold a record, of a tone arm

carrying a stylus, a member slidably mounted upon and solely supported by the tone arm and having portions adapted respectively for raising the stylus clear of the record and to engage the carriage, a spring tending to shift the member into operating position in which the stylus is elevated by one of said portions and the carriage engaged by the other, means for normally retaining the said member in inoperative position, and means for releasing said member when the stylus has reached a predetermined point upon the record to permit the spring to shift the member into operating position.

1,453,132. PROCESS FOR THE RECOVERY OF PURE ALKALIES FROM IMPURE LYES. KARL HEINEMANN, Heidenau, Germany. Filed Nov. 8, 1920. Serial No. 422,734. 1 Claim. (Cl. 204—58.)

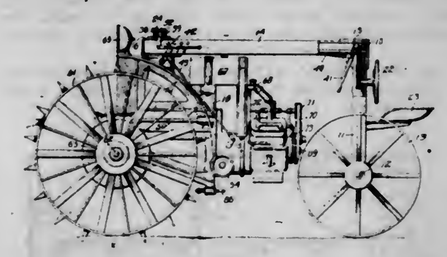
The herein described process for the recovery of pure caustic alkalies from impure alkali lyes, consisting in electrolyzing the said impure lyes, mercury cathodes being used, and decomposing the resulting alkali amalgam by water.

1,453,133. LATHE TOOL. JOHN O. HEINZE, Lakeland, Fla. Filed May 27, 1921. Serial No. 473,128. 6 Claims. (Cl. 29—96.)



1. A lathe tool comprising a shank, a head thereon, said head being bifurcated, means for drawing together the sides of the head, the opposing faces of such sides being formed to engage directly with and to hold in place a cylindrical boring bar or cutting blades of various widths, substantially as set forth.

1,453,134. TRACTOR. JOHN O. HEINZE, Lakeland, Fla. Filed June 18, 1921. Serial No. 478,612. 19 Claims. (Cl. 180—26.)



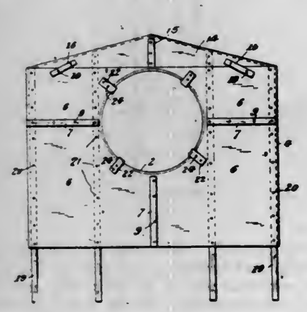
1. In a tractor, a traction wheel, a pair of spaced supporting wheels, a main frame having a U-shaped axle for the supporting wheels, a pair of horizontal converging members secured to the shoulders of said axle, a bearing supported by the converging members at their forward ends, an auxiliary frame supported on said traction wheel for carrying the engine and related parts, a vertical post on said auxiliary frame extending into said bearing on the main frame, an operator's seat suspended midway of the U-shaped axle, and a steering wheel and engine controlling devices carried by said axle adjacent to said seat, whereby a clearance for growing crops is provided beneath said main frame and at each side of said traction wheel from end to end of the tractor, substantially as set forth.

1,453,135. FLOATING FISH TRAP. AUGUST L. HERMANSON, Nome, Territory of Alaska. Filed July 23, 1920. Serial No. 398,356. 3 Claims. (Cl. 43—100.)



3. A floating fish trap comprising an elongated trap body of cylindrical formation terminating at one end in a substantially rectangular funnel and at the opposite end in a series of flexible loops, a plurality of successively arranged entrance funnels within the trap body, anchoring means at opposite lower corners of the rectangular funnel, stretching lines including floats connected with the said anchored corners of the rectangular funnel for stretching the lead line thereof, a shore lead connected with the said rectangular funnel and having anchoring means, and an anchoring line having one end threaded thru the loops at the opposite end of the strap to provide a draw-string and the other end carrying a weight, said anchoring line serving to close the end of the trap when in anchoring position.

1,453,136. CULVERT. WALTER E. HITCHCOCK, Blanchard, Iowa. Filed Aug. 21, 1922. Serial No. 583,297. 2 Claims. (Cl. 61—16.)

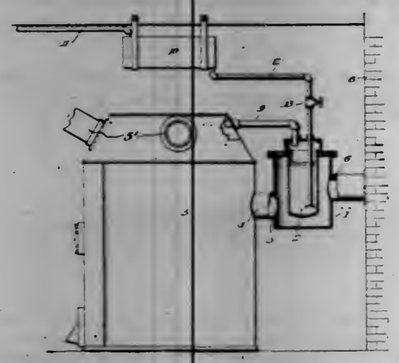


1. In a device of the character described, a main metal plate formed in sections securely fastened together, a crown plate also formed in sections and secured to said main plate at its upper edge, rearwardly directed flanges formed on said main plate and said crown plate and providing a continuous flange around the sides and upper edge of the device, said main plate being provided with a central opening for the terminal of a culvert.

1,453,137. HUMIDIFIER. CHARLES C. HOCKINS, Rochester, N. Y. Filed July 8, 1922. Serial No. 573,640. 1 Claim. (Cl. 126—113.)

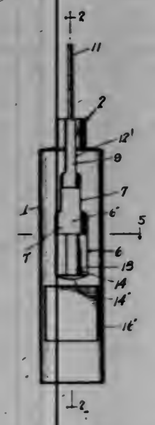
In combination with a furnace having the usual smoke pipe, of a drum arranged intermediate the ends of the smoke pipe and in communication therewith, a water tank entering the drum and spaced from the wall thereof

so that the products of combustion from the furnace will heat the water in the tank, valved means for supplying



water to the tank, and means for conveying steam from the tank to moisten the air from the furnace.

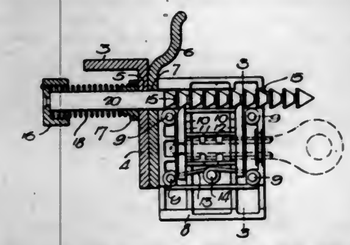
1,453,138. SOCKET. CURTER B. HOLLIDAY, Charleston, W. Va. Filed Feb. 20, 1922. Serial No. 538,052. 2 Claims. (Cl. 255—26.)



1. The combination, a wire line rope socket having a neck extension and having an interior bore communicating with a restricted bore in the neck, said socket having an opening communicating with the lower portion of the bore, a slot between the upper wall of the opening which also communicates with the bore of the socket, and a second slot in a line with the first mentioned slot but narrower than the former communicating with the said first mentioned slot, the bore of the socket and extending through the neck, a wire line swivel comprising a body and a neck, said body and neck being respectively of sizes to be passed into the bore of the socket through the opening of the first mentioned slot, and the line carried by the swivel designed to be passed into the socket through the last mentioned slot, and a removable block partially closing the opening and received in the bore of the socket after the swivel is arranged therein.

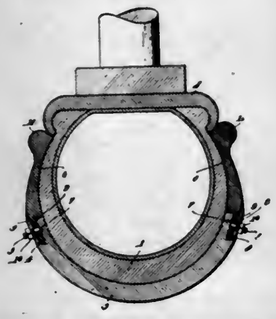
1,453,139. TIRE LOCK. JOHN L. HUSTON, Boston, Mass., assignor to The Miller Lock Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1921. Serial No. 509,485. 7 Claims. (Cl. 70—90.)

6. The combination in a tire lock, of a casing having an opening therein; a headed shackle arranged to pass into the opening and having a series of shoulders thereon; and two bolts in the casing so located that, when one bolt



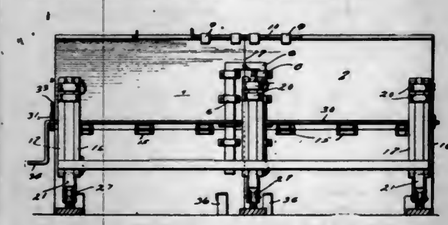
is in engagement with a shoulder of the shackle, the other bolt is midway between two shoulders.

1,453,140. TIRE PROTECTOR. CRUSSELLE B. JACKSON, Hartselle, Ala. Filed Apr. 3, 1922. Serial No. 549,063. 2 Claims. (Cl. 152—17.)



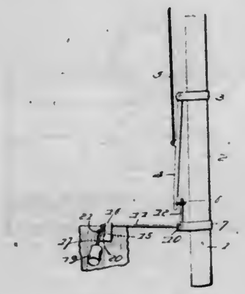
2. A tire protector comprising a metallic ring of trough shape in cross section to receive the threaded part of the tire, said ring having its edges recessed and studs located therein and projecting therefrom, annular bands of rubber arranged to engage the side walls of the tire, each band having a reduced outer edge for engaging the recess in the edge of the metallic ring, said reduced portions having eyelets formed therein to receive said studs, steel rings engaging reduced portions of the bands clamping the same in recess, said rings having openings therein for receiving the studs which are screw threaded, the heads provided on the inner edges of the bands for stiffening the latter and holding them in place on the tire.

1,453,141. BURIAL APPARATUS. JOHN DAWSON JENNINGS, Charleston, S. C. Filed Nov. 4, 1921. Serial No. 512,820. 10 Claims. (Cl. 214—130.)



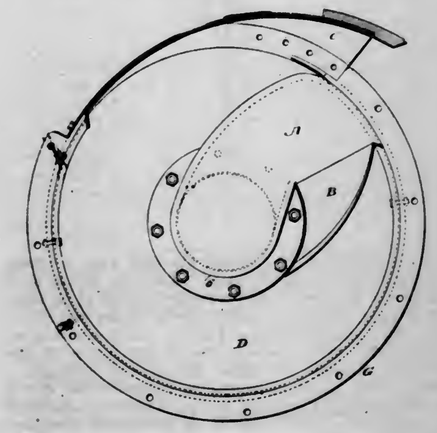
1. A burial apparatus comprising a hopper, a gate at one end of said hopper and adapted to open, means at such end of the hopper for engaging the ground whereby to prevent such end of the hopper from sliding along the ground when its other end is lifted, and means for holding the other end of the hopper elevated as and for the purpose set forth.

1,453,142. AUTOMATIC STOP FOR WINDMILL PUMPS. EDWIN JOHNSON, Osnabrock, N. Dak. Filed Jan. 7, 1922. Serial No. 527,657. 4 Claims. (Cl. 103—28.)



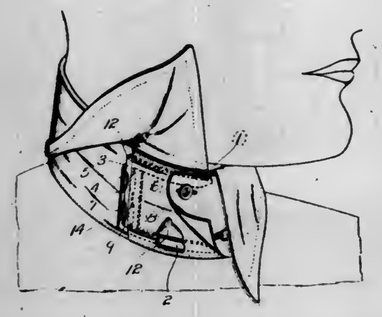
1. In combination with a windmill tank or reservoir and a windmill frame including a plurality of uprights, an elongated shaft journaled in a horizontal position and extending from an upper edge of the tank to a point adjacent one of the uprights, means carried by said one shaft is journaled for supporting the shaft from the upright, means carried by the tank in which the other end of said shaft is journaled, a lever swingingly mounted upon said one upright and depending toward said shaft, said lever being adapted to swing in a plane parallel with the longitudinal axis of said shaft and having a lateral hook upon its lower end, said shaft having a crank arm extending upwardly for engagement with said hook to hold the lever in lowered position, means for connecting the lever with the operating mechanism of a windmill, and a lateral arm upon one end of the shaft provided with a float on its free end movable by the rise of fluid in the tank for rocking said shaft to disengage the crank arm from the hook on the lever.

1,453,143. DRUM FEEDER. OSCAR H. JOHNSON and HENRY F. WEBB, Denver, Colo., assignor to The Mine & Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed Nov. 12, 1918. Serial No. 262,197. 7 Claims. (Cl. 83—9.)



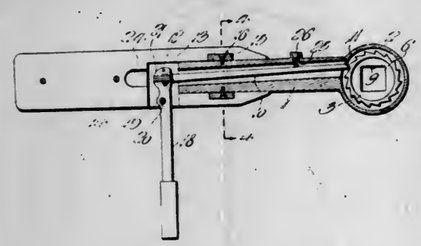
1. A drum feeder made in sections including a main casting or body portion which forms one end and the center of the drum, an end cone removably secured thereto, an internal scoop located within the center of the drum, and a wing located at the inlet of said internal scoop and flaring into the end cone.

1,453,144. SOFT-COLLAR SUPPORTER. FLORENCE A. KAUFMANN, Kansas City, Mo., assignor to W. A. Hill, Kansas City, Mo. Filed July 15, 1921. Serial No. 484,926. 4 Claims. (Cl. 2—91.)



1. A soft collar supporter having two arms, each having a right angular extension, one extension having a slot at an obtuse angle to the major portion of its arm and adjustably receiving the extension on the other arm.

1,453,145. COMBINED RATCHET WRENCH AND TOOL HOLDER. HOWARD A. KENNEDY, Latonia, Ky. Filed May 11, 1922. Serial No. 560,128. 8 Claims. (Cl. 81—60.)

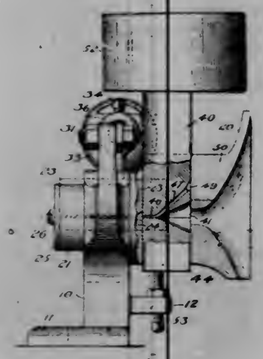


1. A device of the class described embodying a body provided with a rotary gripping device, a longitudinally reciprocating part cooperative with the device for rotating it, and an operating lever for said part, said lever being connected thereto through the medium of a universal joint, whereby to permit the lever to be disposed in a horizontal plane with the gripping device, or at various angles with respect thereto.

1,453,146. SPINNING-JENNY NIPPER. JOHN JOSEPH KINNEY, Auburn, N. Y., assignor to Columbian Rope Company, Auburn, N. Y., a Corporation of New York. Filed Sept. 1, 1922. Serial No. 585,776. 7 Claims. (Cl. 118—395.)

4. In a spinning jenny nipper, a nipper tube, an adjustable pointed lower nipper steel and a weighted pointed upper nipper steel with a conical sliver receiving recess

in the proximate faces of the steels, the apex of the recess being in proximity to the points, one of said steels



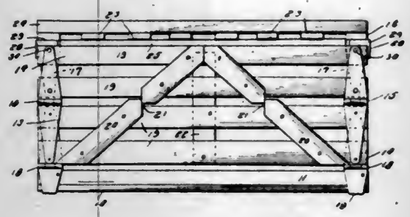
also having a center member receiving and guiding opening communicating with the conical recess in proximity to its apex.

1,453,147. NECKTIE DISPLAY AND ILLUMINATI STAND. ALPHONSE M. KUNZ, St. Louis, Mo. Filed Aug. 1, 1921. Serial No. 488,767. 1 Claim. (Cl. 240—4.)



A display and illuminating necktie stand, comprising a standard provided at the top with a forwardly extending arm, a horizontal casing centrally connected with the outer end of the arm and constituting a reflector adapted to contain illuminating means and open at the bottom, a rotary necktie rack mounted on the standard and below the said arm and composed of spaced necktie supporting rods, and a centrally connecting member pivoted by the standard to permit either of the necktie supporting rods to be swung to the front to a position below the arm and the casing supported by the same.

1,453,148. COLLAPSIBLE CRATE. HENRY J. LEE, Fountain Run, Ky. Filed Dec. 21, 1921. Serial No. 523,917. 5 Claims. (Cl. 217—47.)



1. A crate having a wall provided with a slat, said slat having an abutment thereon, a movable wall, and said movable wall being engageable with said slat to spring the same and cause locking engagement of said abutment with said movable wall.

1,453,149. TOOTHBRUSH. ANDRÉ LENIEF, Paris, France. Filed Oct. 16, 1922. Serial No. 594,841. 1 Claim. (Cl. 15—176.)



A brush, comprising a head provided with a brush-holding recess; a shank rigidly connected to the head and having a threaded axial passage opening at its inner end directly through the wall of said recess and at its outer end through the free end of the shank, said wall being provided with a lateral spur which is located diametrically opposite the inner end of said passage; a brush having its back conformably and removably fitting in said recess and provided at one end with a seat to receive said spur and at the other end with a seat in register with said inner passage end; a removable handle; and a threaded locking stem fixed to the inner end of the handle for engagement in said passage and terminating in a point which projects through the inner passage end into the second-named seat.

1,453,150. VEHICLE TIRE. JOSEPH HENRY MCCORMICK, South Pittsburg, Tenn. Filed Nov. 11, 1920. Serial No. 423,289. 1 Claim. (Cl. 152—10.)



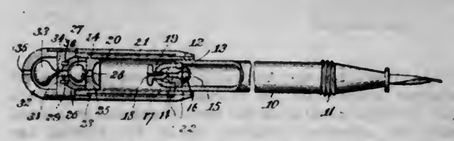
A double tube tire having an outer casing consisting of a split cross sectionally U-shaped element for disposition in surrounding relation to the felly of a wheel, a U-bolt spanning the connecting edges of the outer casing for the passage of its legs through the felly to receive nuts to hold it in engagement with the same, plates spanning the connecting edges of the side walls of the outer casing and secured to the same, a tread section surrounding and engaging with the outer section, and an inflatable tube carried in the outer section and embraced by the latter and the tread section.

1,453,151. POCKET STERILIZING CASE FOR CLINICAL THERMOMETERS. ALEXANDER JOSEPH VINCENT MCDONNELL, London, England. Filed Dec. 22, 1921. Serial No. 524,261. 1 Claim. (206—16.5.)



The combination of a clinical thermometer, a sterilizing tube open at both ends, an enlargement on the thermometer adapted to seat on the lip of the sterilizing tube to thereby hold the thermometer suspended in said tube, a plug projecting sufficiently from said end to be readily grasped, and an outer protecting case in which the sterilizing tube is slidable, said outer case being formed with a longitudinal slot whereby removal of the sterilizing tube is facilitated and which also serves for viewing purposes.

1,453,152. FOUNTAIN PEN. ROBERT J. MCVICKER, New York, N. Y. Filed Aug. 20, 1921. Serial No. 493,808. 4 Claims. (Cl. 120—47.)



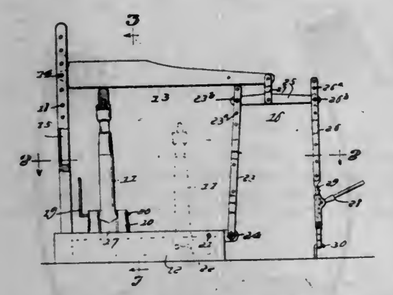
1. A fountain pen comprising a barrel a valve at one end of said barrel, a cap formed of two co-operating sleeves adapted to be threadedly engaged with either end of said barrel, and valves carried by said cap and operable for effecting suction at said first mentioned valve, as and for the purpose set forth.

1,453,153. OCCUPANT-STEERED SLED. MICHAEL MARCINIAK, Duluth, Minn., assignor of one-half to Michael W. Olszewski, Duluth, Minn. Original application filed May 23, 1921, Serial No. 471,644. Divided and this application filed Nov. 23, 1921. Serial No. 517,255. 2 Claims. (Cl. 296—75.)



1. In a sled, an elongated flat runner carrying platform, foot rests hinged on the upper surface of said platform adjacent its forward end for horizontal swinging movements to inoperative positions within the plane of the longitudinal edges of said platform and to operative positions outwardly beyond said edges substantially at right angles to the longitudinal axis of the platform, stops on the upper surface of the platform for limiting the outward swinging of said foot rests, said stops being located in the path of said foot rests to limit movement of the foot rests inwardly to their inoperative positions, with the foot rests extending forwardly substantially parallel with the longitudinal axis of the platform, and clips for releasably retaining the foot rests in their inoperative positions.

1,453,154. DRILL-BIT SWELLING AND DRESSING APPARATUS. HARVEY A. MARTIN, Brady, Tex. Filed Aug. 11, 1921. Serial No. 491,492. 3 Claims. (Cl. 76—5.)

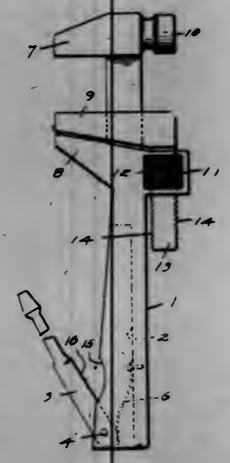


1. A drill bit swelling and dressing apparatus having an anvil provided with a die for the reception of the cutting head of the bit, a bearing member for imparting longitudinal movement of the bit toward the die, and means for actuating the bearing member, the bearing member consisting of a lever terminally mounted for pivotal movement and adapted for engagement at an intermediate point of its length with the rear end of the drill bit.

1,453,155. COMBINATION TOOL. MATIAS BERENDA MARTINEZ, Guasti, Calif. Filed Apr. 26, 1921. Serial No. 464,618. 2 Claims. (Cl. 81—77.)

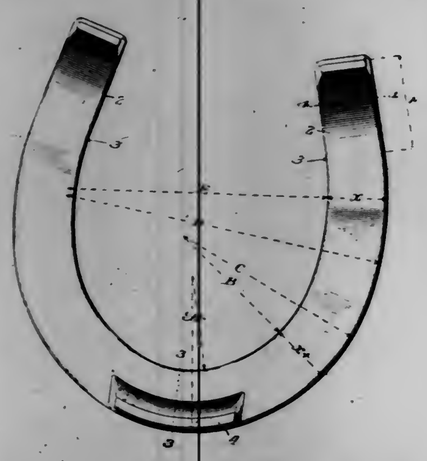
1. A wrench comprising a shank having a handle at one end, a pair of spaced stationary unlike jaws carried by the other end of said shank, a cage formed with one of

said stationary jaws and on said shank, a nut mounted in said cage, a movable jaw surrounding said shank and having a pair of unlike jaw faces, said movable jaw having a shank, said nut having screw-threaded engagement



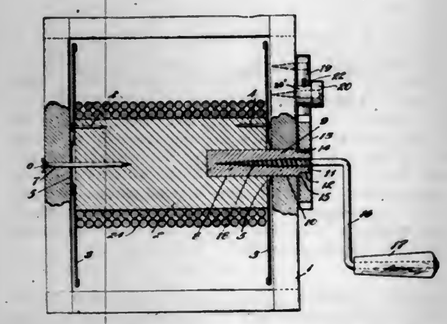
with the last-named shank to adjust said movable jaw, and said movable jaw being movable to bring corresponding jaw faces into cooperation with either of said stationary jaws.

1,453,156. HORSESHOE FOR PITCHING CONTESTS. GEORGE W. MAY, Akron, Ohio. Filed Nov. 9, 1921. Serial No. 513,879. 5 Claims. (Cl. 46—65.)



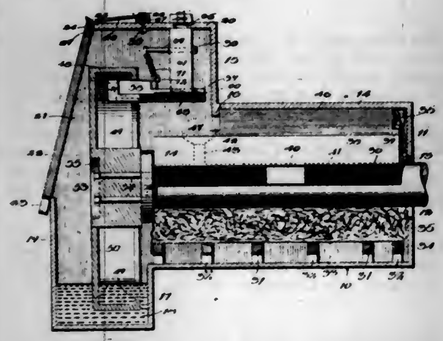
1. A horseshoe for pitching purposes, the arms of which converge to an unobstructed opening at the heel portion of the shoe, the inner surfaces of the arms being formed as straight lines diverging from the opening and extending to points between one-third and one-fourth of the total length of the shoe, thereupon merging with a curved line extending over the remainder of the shoe, whereby, should the shoe strike the stake against its inner surface, a spinning action will be set up only after the shoe has passed the stake between one-third and one-fourth of its total length.

1,453,157. CLOTHESLINE REEL. JOHN MIESSNER, Cleveland, Ohio. Filed Oct. 5, 1922. Serial No. 592,623. 3 Claims. (Cl. 242—100.)



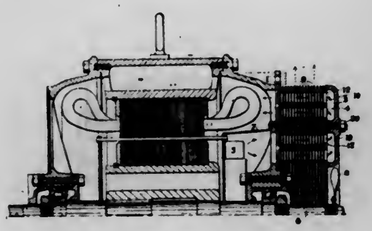
1. A device of the character described, comprising a frame, a drum mounted in the frame and having a longitudinal bore in one end, a journal secured in said bore and projecting through the frame and having a bearing in the latter, said journal having a reduced outer end forming an annular shoulder, a ratchet wheel secured on the reduced outer end of the journal and held by the shoulder away from the frame, a spring pressed pawl engaging the ratchet wheel, a cam turn button on the frame and adapted to move the pawl out of engagement with the ratchet wheel, and a crank arm secured to the journal.

1,453,158. CAR-WHEEL BOXING AND OILING DEVICE. ARTHUR WELLS MINNEY, Stockton, Calif., assignor of one-half to F. L. Boyd, Stockton, Calif. Filed Mar. 28, 1921. Serial No. 456,358. 2 Claims. (Cl. 64—24.)



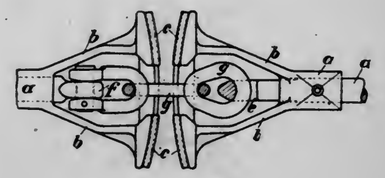
1. A lubricator for journal boxes comprising an oil collector mounted on the journal, a scraper adjustably and pivotally mounted on the journal box and cooperable with the collector, yieldable means for holding the scraper in cooperative engagement with the collector, and a distributer coacting with the journal and receiving the oil from the scraper.

1,453,159. COOLING OF DYNAMO-ELECTRIC MACHINES. PAUL ALPHONSE HUBERT MOSSAY and HENRY CHARLES EDWARD JACOBY, London, England. Filed Jan. 16, 1919. Serial No. 271,381. 4 Claims. (Cl. 171—252.)



1. The combination of a dynamo electric machine, having a casing, a cooling device arranged co-axial with and applied to the casing of said dynamo electric machine, said cooling device comprising an air-chest arranged co-axial with and in spaced relation to one end of said casing, a multiplicity of thin walled conduits adapted to connect said air chest to the interior of said casing at the adjacent end thereof to said air-chest, means for circulating the internal air of the machine through said conduits and said air-chest, and means for passing cooling fluid among and in contact with the exterior surfaces of said conduits substantially as and for the purpose hereinbefore set forth.

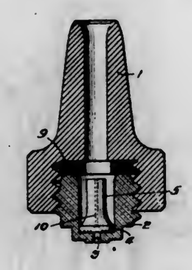
1,453,160. CENTRAL BUFFER FOR SHORT COUPLINGS OF RAILWAY VEHICLES. EMIL MÜLLER, Berlin, Germany. Filed Jan. 19, 1921. Serial No. 438,351. 1 Claim. (Cl. 213—178.)



A central buffer for short couplings of railway vehicles, comprising a buffer shaft provided at its rear portion with a longitudinal bore, a draw-bar disposed within said bore and provided at its forward end with a coupling member, the front portion of the buffer shaft being fork-shaped and having a web uniting the forked ends at their lower portions, a buffer plate secured to the end faces of the forks and web, said plate having a U-shaped recess, and means adapted to be inserted in said recess for connecting the coupling members disposed between the forks of two adjacent vehicles.

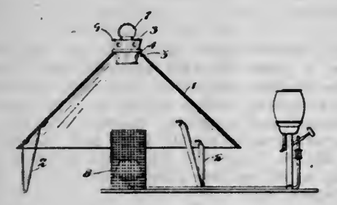
1,453,161. SPRAY NOZZLE. THOMAS W. MURPHY and WLADYSLAW CZARNECKI, Philadelphia, Pa. Filed Jan. 6, 1919. Serial No. 269,897. 2 Claims. (Cl. 299—120.)

1. The combination in a nozzle of a hollow porcelain cap having a flat inner surface and an outlet opening therefrom; with a loose porcelain member in the cap having a flat face normally engaging the flat face thereof and formed with a recess adjacent the outlet opening,



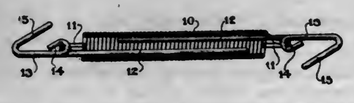
said member being freely movable toward and from said flat face of the cap and having passages leading to the recess.

1,453,162. VENTILATING MEANS FOR CHICKEN HOVERS AND BROODERS. JOHN W. MYERS, Quincy, Ill. Filed Dec. 30, 1919. Serial No. 348,344. 1 Claim. (Cl. 98—27.)



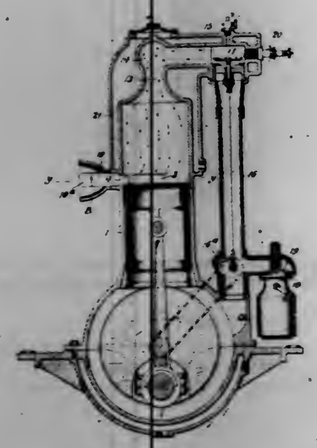
In a device of the character described, a roof with a circular opening in it, a ventilator comprising a frusto-conical hollow casing having an exterior encircling rib between the upper and lower ends thereof for supporting it in said opening, the side walls of said casing having openings formed therein above and below said rib, and a handle for said ventilator.

1,453,163. SHOCK ABSORBER TOP COUPLING. GEORGE D. NEAL, Little Rock, Ark., assignor of one-half to John R. Baker, Little Rock, Ark. Filed July 28, 1922. Serial No. 578,202. 2 Claims. (Cl. 267—72.)



2. Means for connecting the top with the windshield of an automobile, comprising an elongated coil spring formed at its ends with connecting loops, and a member associated with each end of the spring and formed of a single length of resilient wire bent upon itself intermediate its ends to define a long arm extending within the spring and a short arm having its terminal formed as an eye engaging a loop of the spring, the intermediate portion of the wire member being formed as a hook, one hook being designed for engagement with the ordinary top strap carrying staple subsequent to the removal of the strap and the other hook being designed for engagement with the bracket on the windshield.

1,453,164. INTERNAL-COMBUSTION ENGINE. EDWARD COVERLY NEWCOMB, North Scituate, Mass. Filed June 4, 1919. Serial No. 301,709. 32 Claims. (Cl. 123—73.)



1. An explosive engine comprising in combination a cylinder, a piston mounted to reciprocate therein, a clearance chamber comprising an ignition chamber, an equalizing chamber and a venturi in open communication between said equalizing chamber and said cylinder, an intake valve located at or near the outer end of said ignition chamber and electrical firing mechanism operating in the ignition chamber and located adjacent to said intake valve.

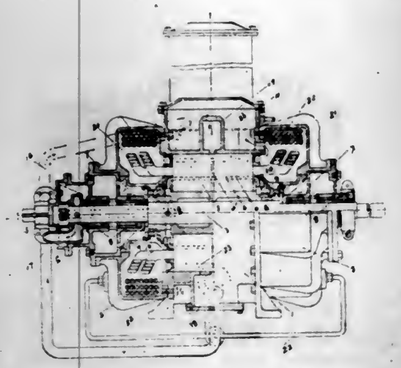
1,453,165. TROUSERS. LEOPOLD NEWMAN, Pittsburgh, Pa. Filed Apr. 17, 1922. Serial No. 553,708. 1 Claim. (Cl. 241—11.)



In combination with the waist band of a pair of trousers, a series of belt guiding loops each having its lower end secured to said waist band and its upper end doubled and fastening means passing through said waist band and through the double portion of said loop, and a suspender button disposed on the outer face of the waist band and at the upper end of said loop and secured thereto and to the waist band by the same fastening which secures the waist band and loop.

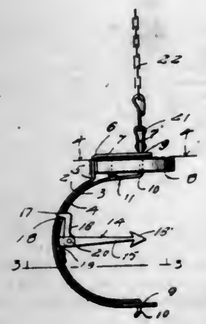
1,453,166. ROTARY ELECTRIC MACHINE. KANTARO NOBUHARA, Muko-gun, Hyogo-ken, Japan. Filed Oct. 23, 1919. Serial No. 332,697. 8 Claims. (Cl. 171—252.)

2. A machine having rotary mechanism comprising the combination of a stator member, a rotor member cooperating therewith and separated therefrom by a clearance space and means comprising substantially radial passages in one of said members for maintaining a partial vacuum in said clearance space.



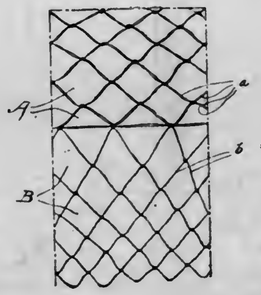
8. A machine having rotary mechanism comprising a stator, a rotor separated therefrom by a clearance space, means for circulating a liquid through said stator and rotor, means for creating a suction in said clearance space and means for cooling said liquid.

1,453,167. TRAP. JOHAN KONRAD NORDENSTAM, Strathcona, Minn. Filed Dec. 8, 1921. Serial No. 520,925. 3 Claims. (Cl. 43—89.)



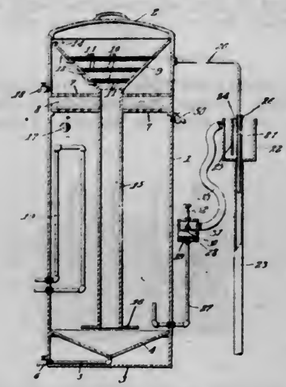
2. A trap comprising inner and outer jaws, the outer jaw having the upper terminal thereof offset to form a spaced arm, a tensioned spring positioned between the arm and the inner jaw member, said inner jaw member having an upstanding lug positioned in the space between the inner jaw and the arm, said tensioned spring having one of its terminals connected to said outer jaw and having its outer terminal connected to said lug, the outer jaw having registering apertures formed in the terminals thereof, the inner jaw having its terminals bent angularly and pivotally seated in said apertures, and a trigger mechanism for holding the jaws in operative position.

1,453,168. HAIR NET. JESSE OPPENHEIM, New York, N. Y., assignor to Hyman & Oppenheim, New York, N. Y., a Corporation of New York. Filed Aug. 15, 1922. Serial No. 582,017. 2 Claims. (Cl. 132—49.)



2. A hair net whose crown portion is of multiple strand and whose marginal portion is of single strand mesh.

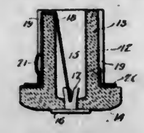
1,453,169. FILTERING TANK. JOHN HUNSICKER PACKER, Liberty, Mo. Filed Aug. 19, 1921. Serial No. 493,538. 1 Claim. (Cl. 210—48.)



A device of the class described comprising a casing; a filter extended across the casing adjacent to the top of the casing; a funnel in the casing above the filter, the funnel having a neck connected directly to the funnel and extending downwardly through the filter to a point adjacent to the bottom of the casing; superposed upper and lower screens extended across the funnel; air inlet conduits external to the funnel, the upper ends of all of the conduits opening through the funnel above the upper screen, the lower end of one conduit opening through the funnel below the lower screen, and the lower end of another of the conduits opening through the funnel at a point between the screens; and an outlet for the casing, the outlet being located above the filter.

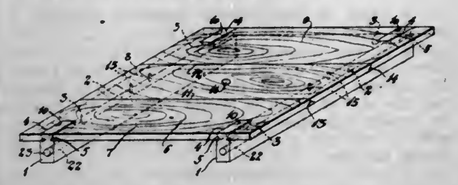
1,453,170. FUSE PLUG. HENRY T. PAISTE, Philadelphia, Pa., assignor to H. T. Paiste Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1917. Serial No. 208,802. 13 Claims. (Cl. 200—130.)

6. The combination in a fuse plug of a hollow body; a capsule removably fitting the cavity of said body; and a spring tongue structurally independent of and operative between said parts for frictionally holding them



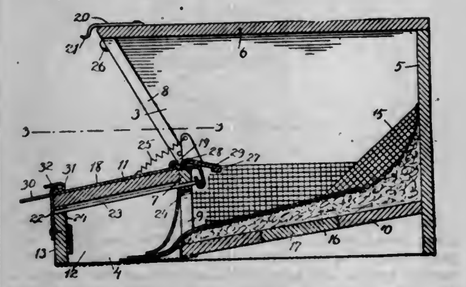
together; with means for removably holding the tongue on the capsule.

1,453,171. COLLAPSIBLE DRAWING BOARD. LEO L. OBERWARTH, Frankfort, Ky. Filed Nov. 14, 1921. Serial No. 514,074. 4 Claims. (Cl. 45—131.)



3. A device of the type described comprising a board composed of three sections, the end sections having recesses in one of their sides, transverse members, each having an arcuate groove therein and a projection at the ends thereof, pins carried by said transverse members, said projections being adapted to be received in the recesses of said end sections, whereby said end sections can only be moved toward each other, and means carried by the center section for locking said section in place with respect to said transverse members, said means comprising said pins which are adapted to be received in openings in said center section, and a strip pivotally secured to the center board, the ends thereof being adapted to enter the arcuate grooves in said transverse members.

1,453,172. TRAP NEST FOR HENS. OLE K. OLSON, Oakdale, N. Dak. Filed Jan. 4, 1922. Serial No. 526,941. 2 Claims. (Cl. 119—47.)



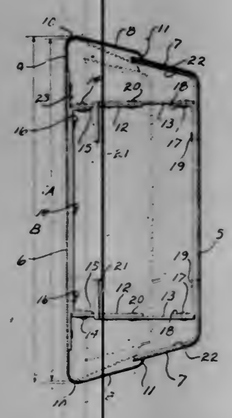
1. In a hen's nest, a casing the front wall of which is provided with an upper entrance opening for the hen, and a lower exit opening for the eggs, a forward collection chamber for eggs communicating in rear with said exit opening and having a removable top, a trap door normally resting upon said top and hinged in the angle between said top and said front wall, and adapted when raised to close entrance opening, a spring for raising said door, means for holding said door in lowered normal position, and means for releasing the holding means including a lever fulcrumed adjacent to the angle of said front wall and said top, and a reciprocatory rod engaged by one arm of said lever and at its outer end engaging the holding means.

1,453,173. ELECTRIC-WIRE CLAMP. PIERRE PAIRARD, Paris, France. Filed June 13, 1918. Serial No. 239,835. 3 Claims. (Cl. 173—313.)



1. A clamp of the character described including an annular strap-like body portion having spaced hooks formed at the terminals and adjacent the side edges thereof, the hooks on one terminal extending in a direction opposite to those on the other terminal, a threaded stud the base of which is formed with opposed recesses the opposite side edges of which are embraced by opposed hooks of the body portion and a clamping element embracing the stud.

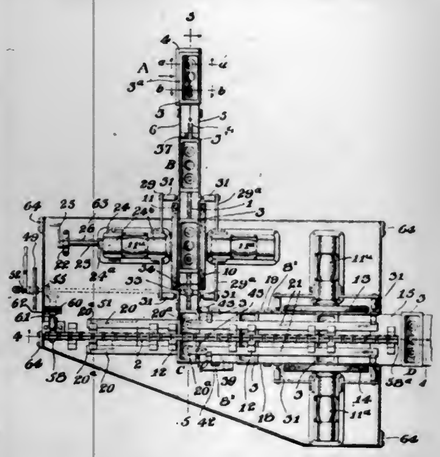
1,453,174. CONCRETE FORM. EDWARD E. PATMOR, Santa Ana, Calif. Filed June 9, 1922. Serial No. 567,038. 1 Claim. (Cl. 25—128.)



In a concrete form, the combination of trough-shaped sheet metal sections of different widths assembled with their flanges in opposition, the flanges of the narrower section flaring and being disposed between the flanges of the wider section, the flanges of the wider section having their longitudinal edges closer together than the longitudinal edges of the flanges of the narrower section when the sections are in collapsed position, and retractable means to hold the sections, against pressure tending to collapse them.

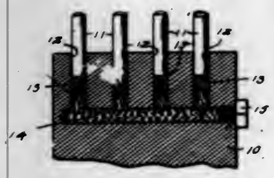
1,453,175. GRINDING MACHINE. JOSEPH E. PERAULT, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Feb. 17, 1922. Serial No. 537,269. 7 Claims. (Cl. 51—112.)

1. In a machine for shaping the edges of battery box covers and similar articles having flanged edges, two sets of upper and lower guide rails having intervening guide spaces through which the said flanged edges pro-



ject, shaping devices mounted outside said guide rails and arranged to shape said projecting edges, and means for moving said articles along said guide rails.

1,453,176. COMPENSATING JAW FOR CHUCKS AND THE LIKE. LESTER PERRINE, Detroit, Mich. Filed Mar. 18, 1921. Serial No. 453,287. 3 Claims. (Cl. 90—60.)

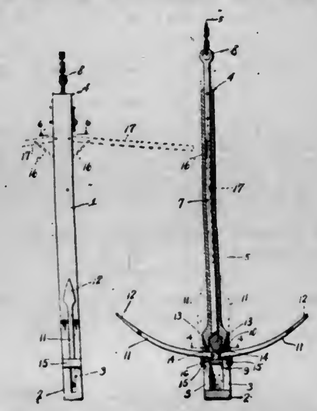


1. A gripper jaw having independently movable gripper elements to directly contact with the surface gripped and fitted in communicating guides provided with a mobile filler and capable of substantial movement in said guides whereby the elements will automatically adapt themselves to the contour of the said surface.

1,453,177. ANCHOR. PETER A. PETERSON, Pocatello, Idaho. Filed Apr. 18, 1922. Serial No. 554,733. 2 Claims. (Cl. 114—208.)

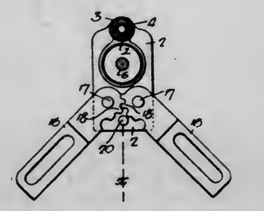
2. In an anchor, a hollow substantially cross sectionally rectangular shank having its sides and ends provided with elongated openings, a slide movable in the shank having its outer end provided with a ring for the reception of a chain, said slide having openings providing pockets therein, arms having flukes at their outer ends passing through two of the opposed openings in the shank entering one of the openings in the slide and pivotally secured therein, antifrictional guide members arranged transversely of the referred to openings in the shank to contact with the arms to swing the same at an outward angle with respect to the shank when the slide is drawn outwardly from the shank, bars pivotally secured in the remaining openings of the shank and

foldable into the remaining openings of the shank, links pivotally secured to the bars and to the arms, whereby



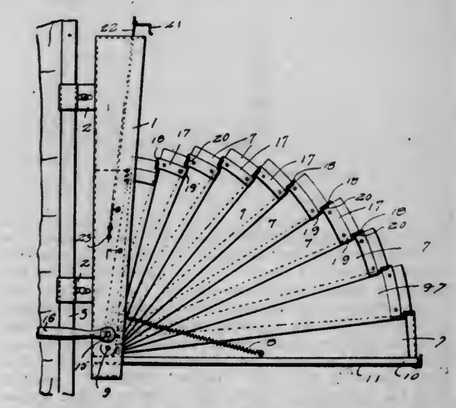
to limit the outward swinging of the arms when the slide is drawn outwardly through the shank.

1,453,178. AIR PUMP. NICHOLAS A. PETRY, Philadelphia, Pa. Filed Feb. 1, 1921. Serial No. 441,586. 5 Claims. (Cl. 230—27.)



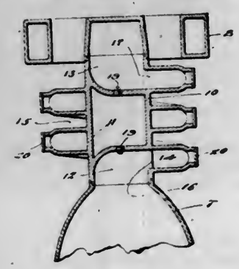
1. The combination of an air pump having a base; a cylinder on said base; two foot plates pivotally mounted on the base, with means whereby the foot plates are operatively geared together and are free to swing in a plane at right angles to the line of the cylinder.

1,453,179. VEHICLE SIGNAL. JOHN B. PHLEGER, Dayton, Ohio. Filed Nov. 8, 1921. Serial No. 513,635. 3 Claims. (Cl. 116—41.)



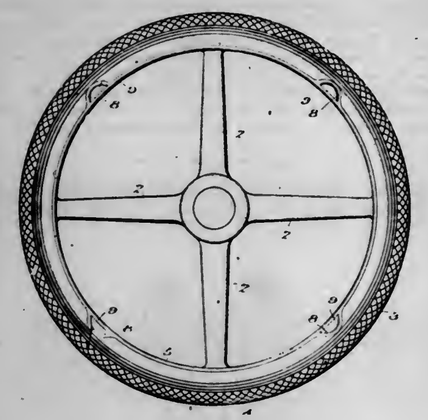
1. A signal of the character specified comprising a plurality of pivoted vanes adapted to be folded and spread, and stop and guide means on each of the vanes to direct and limit the movements thereof in each direction, said means consisting of transversely disposed strips having opposite end portions bent laterally in the same direction and corresponding ends of the strips expanded.

1,453,180. HOT-AIR HEATING APPARATUS. JAMES F. POWERS, Linwood, Pa. Filed Nov. 3, 1922. Serial No. 598,886. 3 Claims. (Cl. 126—102.)



1. As a new article of manufacture, a unit for use in hot air furnaces, comprising a lower central conduit, an upper central conduit, a body or core interposed between the said central conduits, and a spiral conduit surrounding the lower and upper central conduits and the body or core, and having its lower end in lateral communication with the lower conduit and its upper end in lateral communication with the upper conduit and also having its convolutions separated by a spiral space whereby all portions of the wall of the spiral conduit are utilized for heat radiating purposes.

1,453,181. STEERING-WHEEL COVER. WILLIAM F. RIDGE, Akron, Ohio. Filed Oct. 23, 1922. Serial No. 596,210. 9 Claims. (Cl. 74—33.)

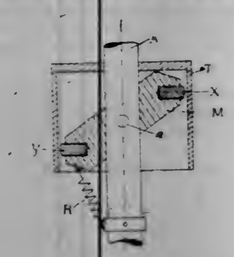


1. As a new article of manufacture, an elastic cover for steering wheels or the like, comprising a torus split along its inner circumference and provided on its surface in contact with the wheel with irregular formations adapted to prevent slippage of the cover.

1,453,182. CENTRIFUGAL FORCE GOVERNOR. GIOVANNI RIVETTA, Paris, France. Filed July 12, 1921. Serial No. 484,271. 2 Claims. (Cl. 188—184.)

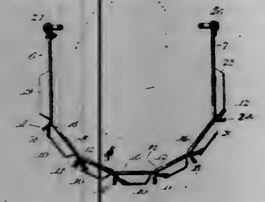
2. A centrifugal governor comprising in combination a rotary spindle, a rotary mass pivoted centrally on said

spindle, hardened blocks carried by the said mass, a spring tending to maintain the pivoted mass in an ob-



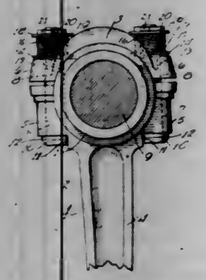
lique position relatively to the spindle, and a stationary brake ring against the inner surface of which the blocks tend to engage when the spindle is rotated.

1,453,183. GROUND-GRIPPING CHAIN FOR AUTOMOBILE TIRES. JAMES E. ROBISON, Denver, Colo. Filed July 29, 1921. Serial No. 488,362. 9 Claims. (Cl. 152—14.)



3. In a ground gripping chain for automobile tires, the combination with side chains, of cross chains connected thereto, comprising links, each having a fluked head at one end and an aperture adjoining the other end, the fluked head of one link engaging the margin of the aperture of the adjoining link, whereby the links are detachably hinged, and projecting lips on each of said links, which are disposed at right angles to each other.

1,453,184. AUTOMATIC BEARING ADJUSTER. JOHN F. ROSE, Moline, Ill. Filed Mar. 21, 1921. Serial No. 453,932. 1 Claim. (Cl. 85—32.)

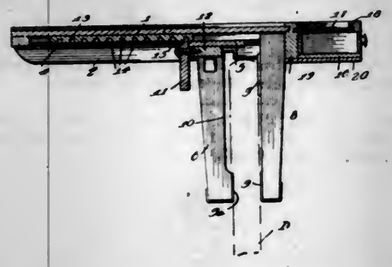


In a device of the character described, a threaded bolt having an opening extending transversely therethrough and adjacent the outer end thereof, a sleeve having an interiorly threaded bore arranged to receive said threaded bolt, said sleeve having a radial flange on the peripheral wall thereof, an adjustable washer having radial grooves on the upper face thereof, a torsion spring arranged to lie concentric with said sleeve on said bolt and engage said flange at one end and said washer at the other end, and a pin projected through the opening in said bolt and arranged to engage the grooves in said washer to normally prevent the rotation of said washer on said bolt.

1,453,185. APPLICATION OF THE BARK (SUBER) OF MELALEUCA LEUCADENDRON TO THERMIC, HYDRAULIC, AND DIELECTRIC DEVICES. PAUL EMMANUEL HIPPOLYTE ROUSSAN, Paris, France. Filed Aug. 23, 1920. Serial No. 405,310. 2 Claims. (Cl. 154—44.)

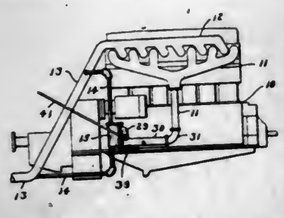
1. An insulating medium made of the bark of *Melaleuca leucadendron*.

1,453,186. TABLE. ROBERT RUFFIN, Jr., Como, Miss. Filed Oct. 28, 1922. Serial No. 597,575. 3 Claims. (Cl. 45—51.)



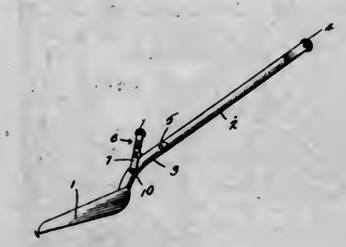
1. A table of the class described comprising a top having a pair of laterally spaced fixed legs depending therefrom, a slide movable toward and away from said fixed legs and having a pair of legs fixed thereto and movable therewith, a transversely grooved board secured to the lower face of said table and a pivotal latch carried by said slide to enter one of the grooves in said board and lock the slide in adjusted position.

1,453,187. MEANS FOR VAPORIZING HYDROCARBON FUELS. HARRY ROBINSON RUMFORD, Chester, Pa., assignor of one-half to Walter A. Landry, Chester, Pa. Filed Feb. 18, 1921. Serial No. 446,141. 2 Claims. (Cl. 123—133.)



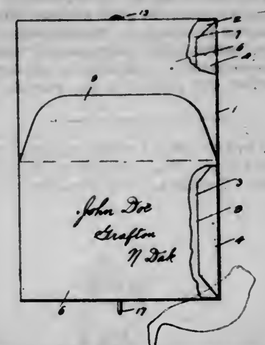
1. The combination with the intake manifold and the exhaust of an internal combustion engine of a reservoir adapted to receive a supply of hydrocarbon, means for regulating a supply of atmospheric air into the reservoir, float mechanism for controlling the supply of hydrocarbon to the reservoir, an auxiliary collecting pipe connecting with the exhaust and passing through the reservoir, a baffle in the reservoir for preventing raw hydrocarbon from splashing into the vaporized mixture, a conduit from the reservoir to the intake manifold having spaced choke and throttle valves therein, a spring-influenced valve intermediate the choke and throttle valves, and an auxiliary connection controllable by the spring-influenced valve for supplying raw hydrocarbon to the intake manifold when the engine is cold.

1,453,188. DETACHABLE HANDLE. CECIL R. RUPPE, Oakley, Kans. Filed June 3, 1921. Serial No. 474,656. 1 Claim. (Cl. 294—58.)



A scoop having a handle, auxiliary handle comprising a pair of spaced side members, means for pivotally connecting the auxiliary handle to the handle of the scoop, a grip for the auxiliary handle, and a strip connected to the spaced side members and engaging the lonitudinal edges thereof and adapted for abutment with the scoop handle to limit the pivotal movement of the auxiliary handle.

1,453,189. ENVELOPE. HORACE ETHELBERT SALTER, Grafton, N. Dak., assignor of one-half to H. A. Ball, Grafton, N. Dak. Filed Dec. 30, 1919. Serial No. 348,307. 2 Claims. (Cl. 229—73.)



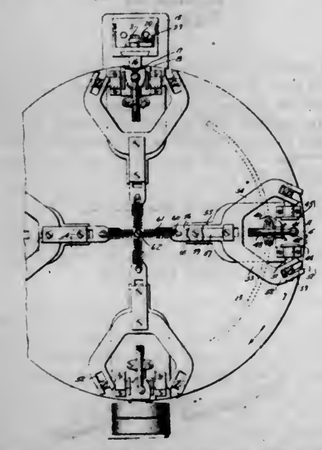
1. A mailing envelope having independent pockets flexibly connected together at their mouths for reversal to facilitate use both as an original and as a return packet by presenting different surfaces outermost to receive the original address and the return address, cooperating means on the pockets to selectively secure the pockets in either of their positions, and one of the pockets having a closure flap to function in one of the positions to extend into the opposite pocket to thus close both pockets.

1,453,190. HORSE-DRAWN CYCLE. FILANDRO HENRY SANDS, Nassau, Bahama Islands. Filed June 16, 1922. Serial No. 568,758. 2 Claims. (Cl. 280—29.)



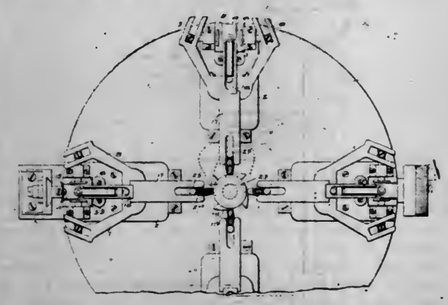
1. A vehicle embodying a pair of spaced parallel frames, means connecting the frames, a fork located at the rear end of each of the frames, wheels mounted within the forks, a transversely disposed front frame, a wheel mounted for rotation at each end thereof, means pivotally connecting the front frame to the front ends of the spaced parallel frames, a seat mounted upon each of the last mentioned frames and shafts connected to the front frame.

1,453,191. HEEL-BREASTING MACHINE. ADOLF SCHOEN, New York, N. Y. Filed Sept. 24, 1921. Serial No. 502,847. 7 Claims. (Cl. 12—47.)



1. A heel cutting machine comprising a turntable, a plurality of sets of mechanism for clamping heels on said table, automatically actuated means for bringing said clamping sets to an unclamped position for removing the cut heels and supplying new uncut heels, a knife arranged adjacent said table for severing the heels as they pass, means for stopping the table as each heel comes opposite said knife, and a single drive shaft for operating the knife and turntable in time relation.

1,453,192. HEEL-CUTTING MACHINE. ADOLF SCHOEN, New York, N. Y. Filed Aug. 12, 1922. Serial No. 581,506. 5 Claims. (Cl. 12—47.)



1. In a heel-cutting machine, a turntable, a plurality of spaced means for gripping heels mounted on said turntable, and means arranged adjacent said turntable for cutting said heels as they move to position past said means, and ejecting means for ejecting said heels after the cutting operation, said ejecting means including a reciprocating bar having an ejecting end, means for setting said reciprocating bar so that said ejecting end will act as a gage when inserting a new heel, and a cam for moving said bar in one direction.

1,453,193. DEVICE FOR ELECTROMAGNETICAL QUENCHING OF LIGHT ARCS APPEARING UPON THE INTERRUPTION OF AN ELECTRIC CIRCUIT. LUDWIG SCHÖN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,103. 9 Claims. (Cl. 200—147.)



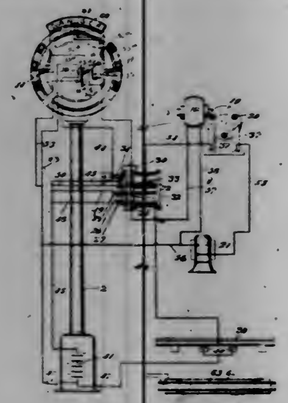
1. In apparatus of the character described the combination of a pair of separable contacts and opposing magnet cores in the plane of the meeting face of the contacts and having parallel, disc-shaped pole shoes, the contacts having fixed thereon oppositely curved arcing horns arranged between the pole shoes, said arcing horns including an angle of 180°.

1,453,194. DENTAL FILM HOLDER. ARTHUR E. SHAW, Columbia, S. C. Filed Apr. 26, 1922. Serial No. 556,687. 5 Claims. (Cl. 250—34.)



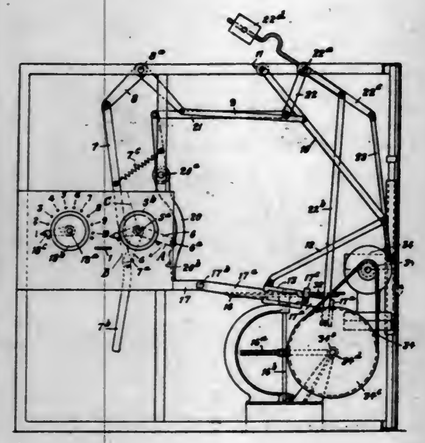
1. A dental film holder comprising a handle, a button member detachably connected thereto, and means for supporting a film pack by said button.

1,453,195. SIGNALING MECHANISM. JESSE CORNELIOUS SIMS, Maynard, Mass. Filed Nov. 6, 1919. Serial No. 336,036. 5 Claims. (Cl. 177—329.)



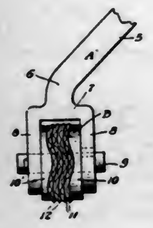
1. A signaling mechanism comprising a circular casing having inner and outer concentric transparent portions, a rotary support in the casing, signaling devices carried by said rotary support in position to be observed through said outer transparent portions, and light emitting means carried by the rotary support in position to be observed through the inner transparent portions.

1,453,196. GRAMOPHONE APPARATUS. CUTHBERT COATES SMITH, Twickenham, England. Filed Aug. 3, 1921. Serial No. 489,590. 12 Claims. (Cl. 274—10.)



1. A talking machine, including a frame, a record playing table mounted thereon, a reproducer carried by the frame, a slide member mounted on the frame for vertical sliding movement, said member having an inclined arm adapted to engage the reproducer, and means for raising and lowering the slide member, whereby when said slide member is raised the inclined arm will engage the reproducer and raise it, the incline of the arm being such that the reproducer will slide to the lower portion by gravity which will place it in the starting position.

1,453,197. FACING OR CUTTING TOOL. CHARLES F. SNYDER, Pittsburgh, Pa. Filed Sept. 2, 1921. Serial No. 497,813. 7 Claims. (Cl. 29—104.)



1. A cutter disk for forming a granulated surface on metallic articles, having a sinusoidal periphery provided with a continuous annular shape beveled cutting edge of a nature adapted to cut into a metal surface and give it a pitted or granulated appearance.

1,453,198. CUSHION WHEEL. EARL D. SNYDER, Albany, Ill. Filed June 15, 1921. Serial No. 477,719. 2 Claims. (Cl. 152—34.)

1. A cushion wheel comprising a hub structure including spaced parallel hub plates, a pneumatic tire, supporting means rigidly secured to said hub structure and extending outwardly therefrom and between the hub plate and supporting a tire rim on which said pneumatic tire is mounted, an outer rim resting on said tire, said outer rim consisting of inner and outer sections the inner side of the inner section shaped to conform to the



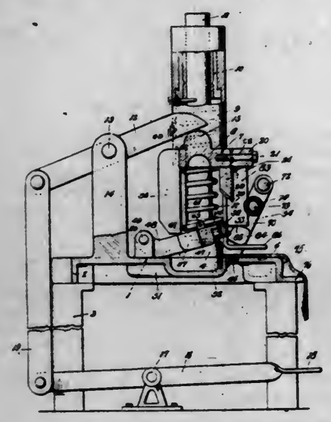
shape of the pneumatic tire and to rest thereon, the outer section of said outer rim carrying a cushion tire, outer plates secured to the outer rim and slidably received by the hub plates, and means loosely securing the outer plates to the supporting means whereby the outer rim and outer plates may move radially in respect thereto.

1,453,199. RESILIENT WHEEL AND AIR TIRE TO BE USED THEREWITH. JACOBUS SPIJKER, Amsterdam, Netherlands. Filed Aug. 24, 1921. Serial No. 494,885. 4 Claims. (Cl. 152—46.)



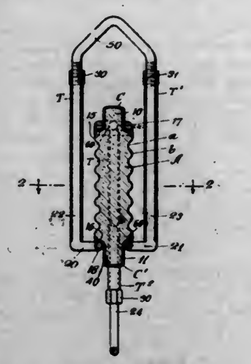
1. A resilient wheel of the character described comprising an outer wheel part including two disk-members having an internal circular chamber open at its inner side, an outer solid rim portion, said disk-like members having telescoping circumferential flanges, an inner wheel part, an air tube located in said chamber, and a separate cover overlying the inner surfaces of the side walls of the chamber and extending across the inner open side thereof, said cover forming a connection between the inner and outer wheel parts and the outer portion of said air tube being in direct contact with the rim portion of the outer wheel part.

1,453,200. FUR-CUTTING MACHINE. JOSEPH O. STACHO, Newark, N. J. Filed May 28, 1921. Serial No. 473,368. 36 Claims. (Cl. 164—50.)



1. The method of cutting furs which comprises passing a blade therethrough, skin side first, and supporting the material at points spaced apart a distance sufficient to permit of free deflection of the fur by the blade and thus avoid clipping the fur along the line of severance.

1,453,201. STRAIN INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Nov. 30, 1918. Serial No. 264,772. 7 Claims. (Cl. 173—366.)

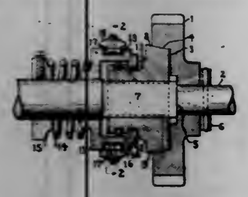


7. In a device of the kind described, a body of insulating material, strain members having bridge portions contacting with the ends of said body, leg portions extending axially beyond said bridge portions, the leg portions of each strain member being insulated from the bridge portion of the other strain member by tubular insulators surrounding the said leg portions, yokes for said leg portions, and nuts attaching said yokes to said leg portions and holding the insulating tubes in position on said leg portions.

1,453,202. CLUTCH. WILLIAM C. STEVENS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 27, 1920. Serial No. 413,057. 3 Claims. (Cl. 192—82.)

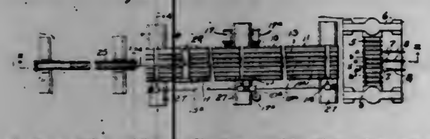
1. In a clutch, in combination, relatively rotatable members, one having an internal cone friction surface

and the other being arranged concentric to said surface, a cone element mounted on said latter member and engageable with and disengageable from said friction surface by relative axial movement between the same and certain of said members, said element being divided radially to form a plurality of segments and said latter member being formed to provide a plurality of cam sur-



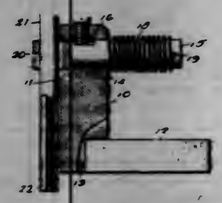
faces one for engaging each of said segments and means for normally holding said segments in a given relation with respect to said cam surfaces and for permitting movement of the same on said surfaces in a plane at right angles to the axis of said members to augment the pressure of said segments on said friction surface when either of said members tends to drive the other.

1,453,203. TUBE-ROLLING MILL. RALPH C. STIEFEL, Ellwood City, Pa. Filed June 16, 1920. Serial No. 389,247. 4 Claims. (Cl. 80—11.)



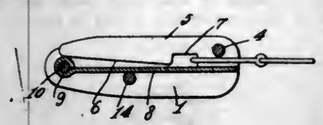
4. In a tube rolling mill, the combination of a set of grooved rolls having a plurality of passes, mandrel bars on the delivery side of the rolls in line with the passes therein, a table in front of said rolls provided with a plurality of tube supports in line with the passes in the rolls, said table being arranged to be bodily shifted sidewise, means on said table for transferring a tube sidewise from one of said tube supports to an adjacent one, and means for transferring the blanks from the delivery side of the rolls to the tube supports on the front side thereof in line with the feed of the blanks through the rolls.

1,453,204. GUIDE DEVICE FOR TAPS OR REAMERS. ALBERT W. STOKES, Philadelphia, Pa. Filed Nov. 8, 1921. Serial No. 513,790. 5 Claims. (Cl. 10—147.)



1. A guide device for screw-thread cutting taps, reamers or the like, comprising a body portion having one end thereof adapted to contact with the work having an opening therein, said body portion being provided upon one side with a groove, a holding element slidably engaging the body portion and adapted to move transversely of the groove, said holding element having means to slidably receive and hold a tap or the like, and yielding means to move said holding element in one direction.

1,453,205. CHAIN FASTENER. CEYLON STUBBEVANT, Castle Rock, Colo., assignor to George Robinson, Larkspur, Colo. Filed July 25, 1921. Serial No. 487,318. 2 Claims. (Cl. 24—69.)



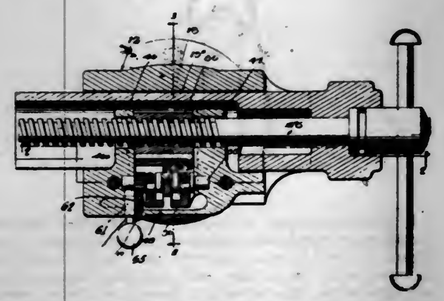
1. A chain fastener comprising a body formed of two spaced plates having outstanding ears at one end thereof and their edges notched at their said ears, a notched blade pivoted between the ears, a spring rod having an eye end which is pivoted between the plates near the ends thereof opposite those provided with the ears, and an element passing transversely through the plates engaging the spring rod for centrally bowing the same and for causing the free end of said rod to exert a pressure against the inner edge of the blade opposite the pivot therefor.

1,453,206. TWINE CUTTER. BENJAMIN SUBIN, Philadelphia, Pa. Filed June 17, 1922. Serial No. 568,896. 2 Claims. (Cl. 30—14.)



1. In an article of the character specified, a base having a projection, a sectional casing grouped about the projection of the base, a band confining the sections of the casing and securing the latter to the base, and cutting mechanism within the casing.

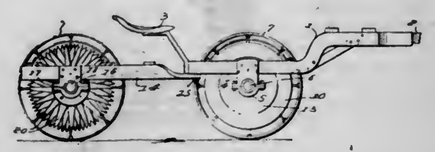
1,453,207. VISE. WALTER SUBY, Pieterlen, Switzerland. Filed Mar. 13, 1922. Serial No. 543,415. 3 Claims. (Cl. 81—32.)



1. In a vise, a fixed jaw including a body portion having an opening and provided with slideways and grooves, a movable jaw including a hollow slide having ribs operatively received in said slideways, an operating screw carried by said movable jaw and extending through the slide thereof, a nut carrying frame having tongues slid-

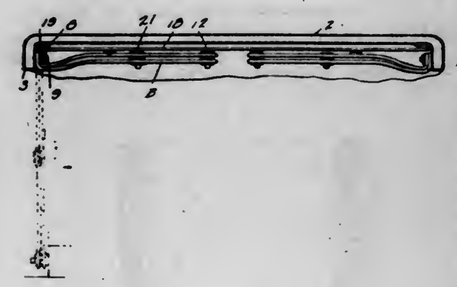
ably received in the groove of the body portion and comprising sections releasably secured to the body portion, the nut carrying frame having bearing lugs arranged within the hollow slide, a two-part nut mounted on the nut carrying frame, operating mechanism for moving the parts of the nut so as to engage them with or disengage them from the operating screw including a crank shaft having cranks of opposite throw operatively connected with the parts of the nut and actuating mechanism for said crank shaft including a lever, and gearing between the lever and the crank shaft.

1,453,208. SCARIFIER. NATHEN DANIEL THOMAS, Jacksonville, Fla. Filed Mar. 27, 1922. Serial No. 547,150. 4 Claims. (Cl. 55—11.)



1. An apparatus of the class described comprising a frame carrying an axle, a series of cutting disks arranged on said axle in spaced relation, a shaft mounted in the frame and arranged rearwardly of said axle, a series of star-shaped pulverizing cutters arranged on said shaft in spaced relation, and detachable supporting wheels of greater diameter than said cutting disks mounted on said axle.

1,453,209. SIDE CURTAIN FOR AUTOMOBILES. RALPH K. THOMSON, Sioux Falls, S. Dak. Filed June 28, 1920. Serial No. 392,229. 1 Claim. (Cl. 296—140.)

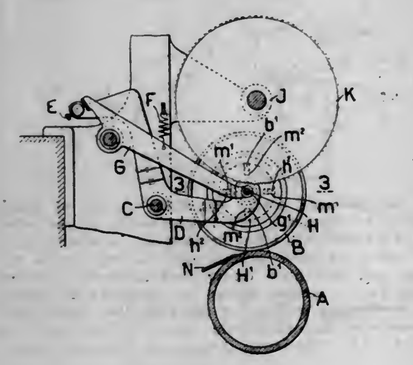


The combination with a vehicle having a top provided with a supporting frame and having a body on which said supporting frame rests, curtain securing pins located upon the supporting frame and body of the vehicle, a curtain comprising a plurality of sections each provided with socket members located along the edges thereof engageable over said pins, said sections overlapping at their adjacent edges, and transverse straps each extending across the under side of the top from a point opposite the overlapping edges of a respective pair of curtain sections to the point opposite the overlapping edges of the corresponding curtain sections on the opposite side of the vehicle and being free from engagement with the top intermediate its ends to permit the transverse straps to freely vibrate with the curtains, said straps being provided with downwardly extending curtain securing pins corresponding to the pins on the body in the frame whereby said curtains may be secured without rolling or folding in a flat position beneath the vehicle top.

1,453,210. PROCESS FOR PURIFYING THE RESIDUE OBTAINED IN PRODUCING AMMONIA FROM CYANIDE. CARL THEODOR THORSSELL and HARALD LUDVIG REINHOLD LUNDÉN, Gottenborg, Sweden, assignors to Aktiebolaget Kvåfveindustri, Gottenborg, Sweden. Filed July 9, 1919. Serial No. 309,738. 1 Claim. (Cl. 23—13.)

The herein described process of purifying a hydrolized product of a cyanide-forming reaction characterized in that the compounds present in the mass of reaction and consisting of silicates and aluminates, which are formed by the reaction by the base used in the mass, after water treatment of the cyanide-holding mass for the production of ammonia, are decomposed by carbon dioxide.

1,453,211. MACHINE FOR MEASURING SURFACE AREAS. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp ..ktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1922. Serial No. 536,588. 2 Claims. (Cl. 33—124.)

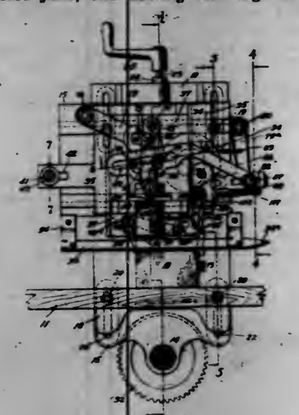


1. In a machine for measuring surface areas, in combination, a support over which the body to be measured is moved, members normally resting on the support and adapted to be lifted therefrom by the body to be measured, a series of coupling members adapted each to be engaged with a transferring element, a counter actuated by the said transferring elements, and a coupling between the liftable members and their co-operating coupling members, said coupling being adapted to prevent relative rotation between the liftable members and the coupling members but to allow relative shifting motion between the same in the sense of the lifting motion of the first-mentioned members.

1,453,212. CAPPING MACHINE. JONAS E. TORNQUIST, St. Paul, Minn. Filed Aug. 3, 1920. Serial No. 400,900. 24 Claims. (Cl. 113—18.)

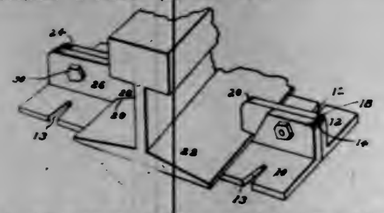
1. The combination, with means for supporting a container to be capped, of a cap sealing mechanism comprising jaws arranged to close under a cap in position on the neck of a container, means for closing said jaws

under said cap, means for forcing the edge of said cap against said jaws, and causing said edge to be turned



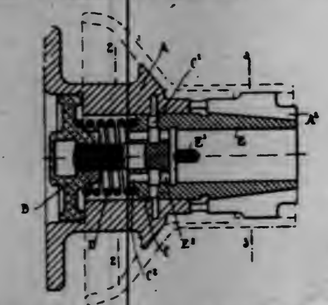
inward, and means for simultaneously moving said jaws in a direction opposite to the line of pressure on said cap.

1,453,213. RAIL-SECURING DEVICE. FRANK M. TUBBS, Santa Rosa, Calif. Filed Oct. 4, 1921. Serial No. 505,230. 1 Claim. (Cl. 238—290.)



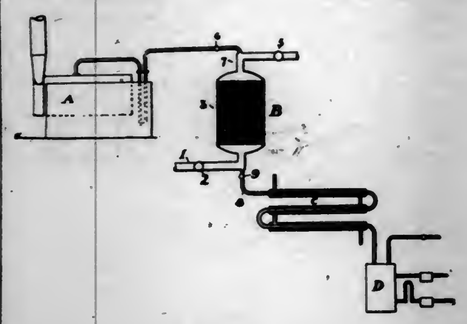
A rail securing device comprising a pair of plates adapted to support a rail independently of the other rail of a track, each plate including an upstanding member having an inner beveled edge for engaging a rail flange, and each plate carrying an upstanding member having an overhanging portion for engaging a rail flange, the overhanging portions of the respective plates being in reverse relation, all of said upstanding members being slotted, and bolts passing through the aforesaid slots.

1,453,214. SAFETY SUPPORT FOR THE SPARE WHEELS OF AUTOMOBILES. GAETANO VEGLIO, Levallois-Perret, France. Filed July 7, 1920. Serial No. 394,479. 6 Claims. (Cl. 224—29.)



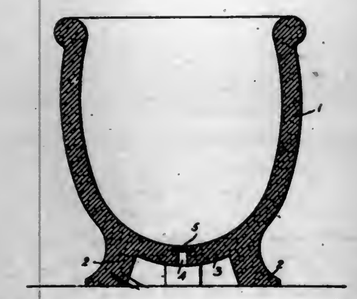
1. A support for securing spare wheels for automobiles, comprising an expansible hub, adapted to receive the spare wheel, a cone located within said hub, said cone terminating in a screwed portion, a nut fixed to said hub and receiving said screwed portion, means for rotating said cone and means for locking said cone.

1,453,215. METHOD OF VOLATILIZING, DISTILLING, OR SEPARATING ABSORBED VAPORS. CLYDE L. VORESS, New York, N. Y., and VERNON C. CANTER, Bradford, Pa., assignor to Gasoline Recovery Corporation, a Corporation of Delaware. Filed Feb. 18, 1922. Serial No. 537,570. 12 Claims. (Cl. 260—168.)



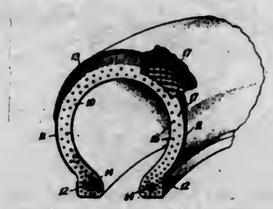
1. A process for the recovery of benzol vapors from gas mixtures by the method of absorption in activated charcoal, which consists in displacing benzol vapors from the charcoal by condensed distilling vapors at a temperature higher than the temperature at which the benzol was originally absorbed, then displacing the distilling vapors by lighter hydrocarbon vapors from substantially denuded gas at a temperature for the most part lower than that at which the benzol vapors were distilled from the charcoal, and then displacing the lighter hydrocarbon vapors by heavier benzol vapors from the gas mixture being denuded at a temperature lower than the temperature at which the previous displacement of benzol by the distilling vapors was made.

1,453,216. PLANT RECEPTACLE. EUGENE CHARLES WEIDIG, New Orleans, La. Filed Sept. 2, 1921. Serial No. 497,892. 2 Claims. (Cl. 47—19.)



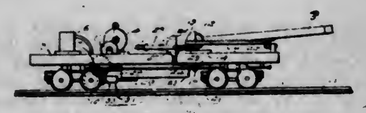
2. A receptacle of the character described having an opening in its bottom, and a wire mesh screen located across the opening and having its edges embedded in the material of the receptacle.

1,453,217. PNEUMATIC TIRE. DANIEL M. WEIGEL, Chicago, Ill., assignor to The Wire Cord Company, Akron, Ohio, a Corporation of Delaware. Filed Aug. 22, 1921. Serial No. 494,089. 9 Claims. (Cl. 152—13.)



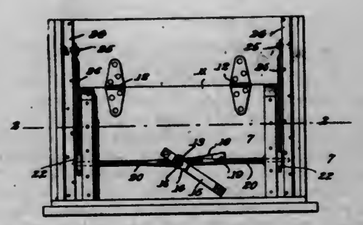
1. In a pneumatic tire, a carcass having a rubber body portion including bead portions, spaced wires embedded therein extending from bead to bead and being independent of each other throughout their length except at the point of fastening in the bead portion, said rubber body portion and said wires in themselves solely constituting the means for resisting the tendency of the contained air to rupture the tire.

1,453,218. TRUCK AND PUSH POLE FOR SWITCHING CARS. JAMES R. WESLEY, Chicago, Ill. Filed Jan. 23, 1922. Serial No. 531,248. 3 Claims. (Cl. 213—224.)



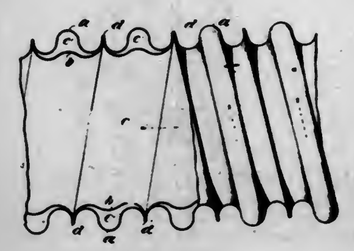
1. In a system for automatically switching cars, a truck, a propelling pole mounted upon the truck and laterally adjustable towards either side of the truck, and a notched bar in cooperative relation with the pole for securing the same in the adjusted position.

1,453,219. END GATE. HOWARD W. WHITE and WILLIAM LININGER, Kent, Iowa. Filed Apr. 17, 1922. Serial No. 553,349. 4 Claims. (Cl. 296—50.)



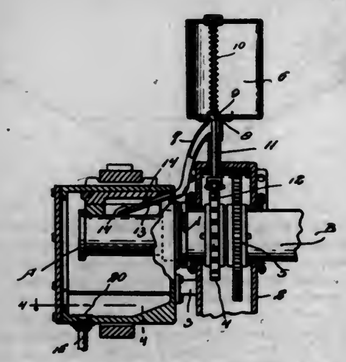
1. The combination with a vehicle body having an end gate, of bars pivotally secured to the vehicle body at each side of the gate, guides carried by the gate and slidingly engaging the bars and means operatively mounted upon the gate for engagement in openings provided in said bars to hold the gate in adjusted position.

1,453,220. DOUBLE-WALLED TUBE FOR HEATING AND COOLING PURPOSES. EMIL WITZENMANN, Pforzheim, Germany. Filed Mar. 4, 1918. Serial No. 220,384. 3 Claims. (Cl. 137—75.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. A tube of the character described comprising an inner and outer wall, said walls each consisting of a corrugated strip of metal and the opposite edges of said corrugated strips being connected together.

1,453,221. OILING DEVICE. JOSEPH WOROSILA, Fort Hancock, N. J. Filed Apr. 10, 1922. Serial No. 551,255. 4 Claims. (Cl. 184—6.)

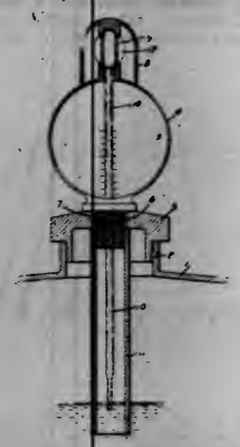


2. A lubricating device for the journal box of a vehicle comprising a supply tank connected with the box, a valve for controlling the flow of oil from the supply tank, means for intermittently operating the same from the axle of the vehicle, a pump for returning the oil from the box to the tank and means for actuating the pump from the vehicle axle.

1,453,222. GAUGE. LEONARD FOOTE, Pedro Miguel, Canal Zone, Panama. Filed Nov. 2, 1921. Serial No. 512,286. 10 Claims. (Cl. 116—118.)

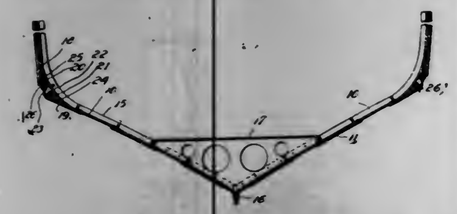
6. In a device of the character described, a supporting frame including a ring provided with diametrically opposed apertures, a hollow cap mounted on the ring and covering one of said apertures, said ring being provided with an annular shoulder adjacent to said aperture,

vacuum inducing means mounted on said shoulder and a tube carried by said means and extending from the



cap and through the apertures in the ring, said cap being provided with apertures whereby to manipulate said vacuum inducing means.

1,453,223. BOAT-HULL CONSTRUCTION. GEORGE MARSHALL FRENCH, Chicago, Ill. Filed Apr. 27, 1922. Serial No. 556,996. 8 Claims. (Cl. 114—84.)



1. A boat hull having, in combination, a shell comprising plates having flanges at their opposite longitudinal edges, other plates having plain edges overlapping the flanged edges of the first mentioned plates, and metallic frame members arranged in spaced relation and formed of sheet metal and flanged along one edge, said plates being secured directly to said frame members, and the flanges of the first mentioned plates being cut away to receive the frame members.

8. In a hull, the combination of a metallic shell construction and a wooden planking, a frame to which said shell and planking are secured, and means for securing the uppermost plate of the shell construction to the frame including a metallic bracket secured upon the inner side of said plate below its upper edge, the upper edge of said plate terminating between the planking and the frame.

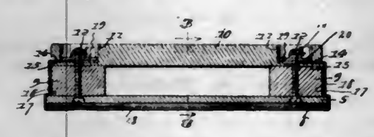
1,453,224. AUTOMOBILE TIRE. JOSEPH GRESZCZUK, Brooklyn, N. Y. Filed Nov. 25, 1921. Serial No. 517,540. 2 Claims. (Cl. 152—8.)

1. A spring wheel of the character described comprising in combination with a rim, a plurality of fastening cleats comprising complementary members adapted to be fastened together, the opposite ends of the cleats being opened, a plurality of leaves arranged in groups for forming a plurality of spring members, the leaves in each group being adapted to be extended into the open ends of the said fastening members whereby they may be engaged by the said cleats, the cleats having curved recesses, the ends of the springs being curved to fit the recesses, one



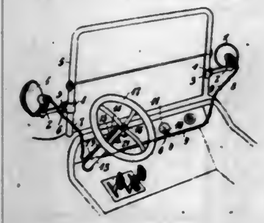
member of each cleat being provided with lugs to engage the curved portions of the said leaves whereby they will be rigidly held between the cleats.

1,453,225. BUFFER BLOCK. LUTHER E. HARRIS, Philadelphia, Pa., assignor to Harris & Wolfrey, a Partnership consisting of Luther E. Harris and John N. Wolfrey. Filed Apr. 15, 1921. Serial No. 461,665. 2 Claims. (Cl. 51—187.)



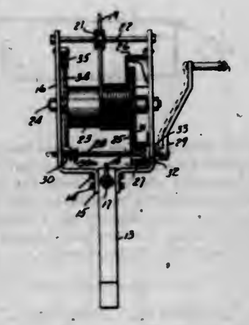
1. In a buffer block, a body and a handle, the said handle having slots extending inwardly from the ends and recesses in the top with which the slots merge, threaded studs projecting into the recesses, clamping elements having slotted portions extending through the slots of the handle into the recesses, members threaded on the studs and bearing on the slotted portions of the clamps for frictionally retaining the clamps in place, the said clamps having jaws overlying portions of the ends of the body and adapted to clamp sand paper against the said ends.

1,453,226. VEHICLE LIGHTING DEVICE. GERALD H. HARVEY, Cincinnati, Ohio. Filed Aug. 8, 1921. Serial No. 490,660. 12 Claims. (Cl. 240—7.)



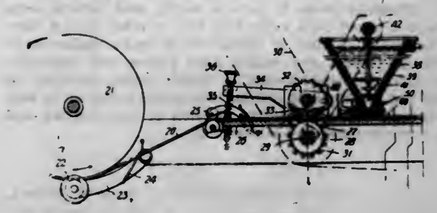
1. In a vehicle-lighting device, in combination with a vehicle, a steering-member on said vehicle, and a plurality of lamps on said vehicle, movable lamp-controlling means lighting one lamp or the other upon a requisite movement in one direction or the other, and engaging means carried by said steering-member momentarily engaging with said controlling means during steering movement in either direction and imparting said movement to said controlling means in one direction or the other entirely during the momentary engagement.

1,453,227. SCAFFOLD. WILLIAM J. MURRAY, Mamaroneck, N. Y. Filed Nov. 15, 1921. Serial No. 515,244. 2 Claims. (Cl. 254—167.)



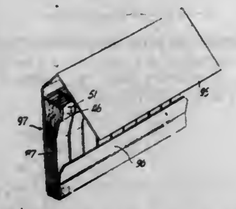
1. A hoisting and lowering unit for the suspension cables of scaffolds, said unit comprising a frame, a drum in said frame, a gear wheel rigid with said drum, a drive shaft turnable and slidable axially of the frame, a pinion on said shaft meshing with said gear wheel, a fixed clutch on said frame coaxial with the drive shaft, said clutch and pinion having mating clutch teeth, and spring means acting on said shaft and tending to maintain said pinion in engagement with said clutch.

1,453,228. PROCESS AND APPARATUS FOR MANUFACTURING MATCHES. JOHN GLEN NEWMAN, North Sydney, New South Wales, Australia, assignor to James Hardie and Company Limited, Sydney, New South Wales, Australia. Filed Nov. 2, 1921. Serial No. 512,361. 11 Claims. (Cl. 144—51.)



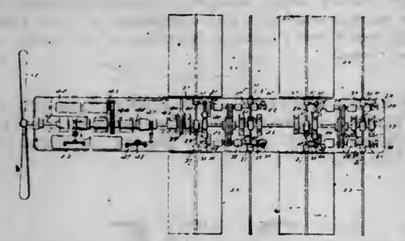
1. Apparatus for manufacturing flexible strip matches, comprising rolls with complementary sprocket teeth and indented teeth, said rolls positioned respectively below and above a table, and means for resiliently bearing said rollers against a continuous stock strip and for rotating them to feed the same and to form embossments therein, a heat jacketed hopper located above said table and adapted to contain match heading composition, a variable vent in the foot of said hopper and stirring means within it, fence and strickle guides below said hopper foot adapted to control the application of a streak of heading composition flowed on the strip from the hopper vent, an oven with heating means adapted for drying the streaked strip, rolls working in contact with said streaked strip after it leaves the oven, means for serving said rolls continuously with hot waxy material, means for drawing said strip from said last-mentioned rolls, and means for slitting it transversely to form individual headed match strips.

1,453,229. MATCH. JOHN GLEN NEWMAN, North Sydney, New South Wales, Australia, assignor to James Hardie and Company Limited, Sydney, New South Wales, Australia. Filed Nov. 2, 1921. Serial No. 512,362. 11 Claims. (Cl. 44—43.)



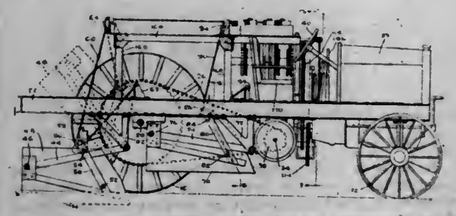
1. A match having a stem constructed of a strip of stout paper or thin wood veneer, and having slow burning igniting composition applied on one side only of said strip with a protuberance in said composition forming an ignitable striking face of small area.

1,453,230. AEROPLANE. LOUIS NORDQUIST, Galeton, Pa. Filed Apr. 3, 1922. Serial No. 549,028. 2 Claims. (Cl. 244—20.)



1. In a flying machine, a car, a crank shaft journaled therein, pairs of eccentrics on the crank shaft, eccentric straps engaging the said eccentrics and having arms extending oppositely, a crank partially rotated by each of the said arms, pitmen connected to the cranks and reciprocated thereby, shafts having wings mounted for oscillatory and rotary motion with respect to the car, arms extending from the said shafts to which the pitmen are connected, a pitman to which the inner ends of the shafts are connected, and means for connecting the opposite ends of the pitman to one of the throws of the crank shaft and means for driving the crank shaft.

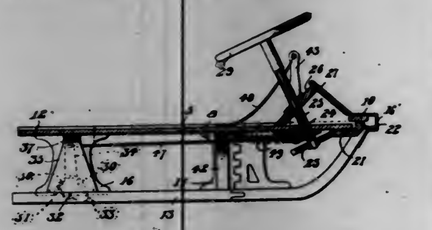
1,453,231. POWER-OPERATED ROAD-GRADING MACHINE. EDWIN M. WHEELOCK, Winona, Minn. Filed July 23, 1920. Serial No. 398,398. 4 Claims. (Cl. 37—126.)



1. A road grading machine comprising a wheel-supported frame, a traction engine mounted on said frame,

two hangers attached to said frame at opposite sides thereof, rearwardly extending arms pivoted to the lower ends of said hangers, a scoop pivotally attached at its rear to the rear ends of said arms, and means for lifting said scoop by power from said engine.

1,453,232. SLED. STEFAN ZUKOWSKI, Pascoag, R. I., assignor of forty-five per cent to Ludwik Okoniewski, Pascoag, R. I. Filed Feb. 21, 1922. Serial No. 538,198. 7 Claims. (Cl. 188—8.)



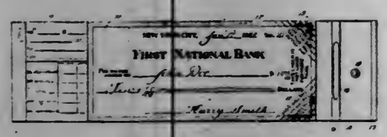
7. In an occupant-steered sled having runners and side rails disposed thereabove, braces rigidly connecting the runners and side rails, ground engaging spurs pivoted in said runners, means operatively connected to said spurs for moving said spurs into engagement with the ground, and means for automatic retraction of the spurs from the ground.

1,453,233. COUPLING FOR ELECTRIC-LIGHT FIXTURES. CHARLES M. BALL, Jr., Loveland, Colo. Filed Jan. 26, 1922. Serial No. 531,882. 1 Claim. (Cl. 240—85.)



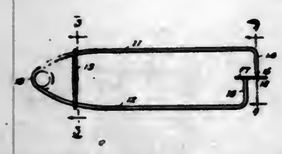
A coupling for electric fixtures comprising a flat base member having a laterally opening socket, a block having an annular groove adjacent one end so that the same may be slid laterally into said socket and having an opening, threads provided on the other end of said block exteriorly thereof, and a nut having an extension with a notched terminal disposed out of alignment with its body, said nut engaging said threads so as to hold said block in locked engagement with said base member.

1,453,234. BANK CHECK AND CHECK BOOK. ROY BATES, Nevada, Mo. Filed Jan. 31, 1922. Serial No. 533,079. 2 Claims. (Cl. 283—12.)



1. A check book having an extension at the outer end constituting a cutting device, said cutting device being foldable on itself and having an opening therethrough at the folding zone for the passage through the opening of a corner of a check, the edge of said extension having a cutter.

1,453,235. CHECK PERFORATOR. ROY BATES, Nevada, Mo. Filed Jan. 31, 1922. Serial No. 533,080. 3 Claims. (Cl. 164—119.)



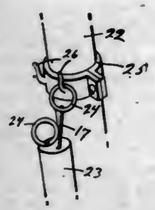
1. A perforating device of the class described formed of wire and having a spring coil therein and presenting arms extending forwardly from said coil, the one arm having a downturned puncturing member at the front end thereof, and the other arm supporting a table extending beneath the puncturing member and formed with a hole in register with said puncturing member.

1,453,236. AUTOMATIC ADDITIONAL AIR VALVE FOR COMBUSTION ENGINES. WILLIAM HENRY BAUERT, Roseville, near Sydney, New South Wales, Australia. Filed Feb. 18, 1920. Serial No. 359,643. 4 Claims. (Cl. 251—145.)



1. A device of the type herein described comprising a valve consisting of a hollow closed-bottom piston having air admission ports in its side walls, said bottom being adapted to act as a valve face and to coact with a movable seating capable of being secured to an engine manifold, a plunger rod within said piston and extending through the head thereof, a coiled spring mounted on said rod within said piston, and means adapted to support said valve in relative position to said seating and to vary the tension of said spring.

1,453,237. DIRECTION INDICATOR. ISAAC M. BROWN, Youngstown, Ohio. Filed Oct. 5, 1920. Serial No. 414,895. 1 Claim. (Cl. 74—39.)



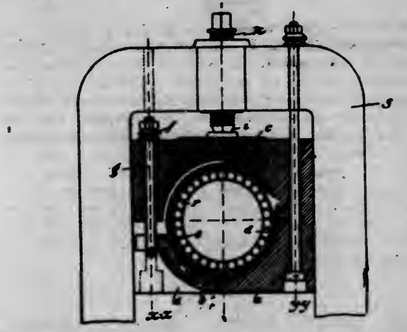
In an operating mechanism for signals comprising a support, a sleeve situated adjacent the support, cables mounted in the sleeve, rings situated on the terminals of the cables, a collar fixed to the support above the upper end of the sleeve, and provided with hooks adapted to be engaged by the rings.

1,453,238. DISPLAY EASEL. GEORGE ADDISON DONALDSON, Girard, Ill. Filed May 16, 1922. Serial No. 561,463. 2 Claims. (Cl. 40—146.)



1. An easel, comprising a face plate, a member fixed to the back of the face plate, a back stay hingedly connected to said member, an attachment comprising a shaft, and a pair of arms at an angle thereto, said shaft mounted to turn between said member and the back stay, and said arms adapted to receive the back stay between them and hold the latter in operative position, and also adapted to be moved against the back plate and permit the stay to fold flat against said member.

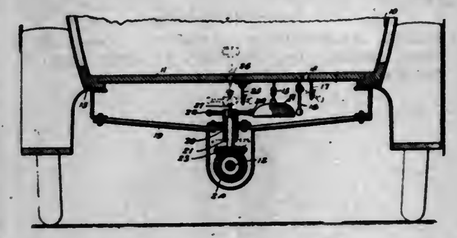
1,453,239. PEDESTAL. LEO DOSTAL, Kladno, Czechoslovakia. Filed May 15, 1920. Serial No. 381,736. 1 Claim. (Cl. 64—39.)



A bearing for rolling mills for taking a plurality of strains acting alternately in varying radial directions comprising a plurality of bearing rings arranged axially side by side, and supporting means for the bearing means, one of the said rings being resiliently mounted in such a manner as to keep the periphery of the neck of the roller in contact with the inner surface of the bearing member when there is a wear between the neck and the bearing, as set forth.

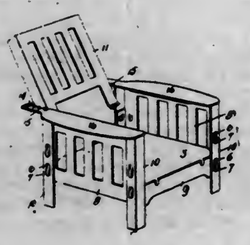
1,453,240. MOTOR-VEHICLE ALARM. PATRICK DOWD, Brooklyn, N. Y. Filed Feb. 7, 1922. Serial No. 534,725. 1 Claim. (Cl. 116—33.)

A device of the character described for use with vehicles, comprising a casing suspended from the vehicle, a gong suspended from the vehicle and located in the casing, a striking arm suspended from the vehicle adjacent the gong for sounding the latter when the car is in position, a hook suspended from the vehicle adjacent the striking arm for receiving the latter to retain it in



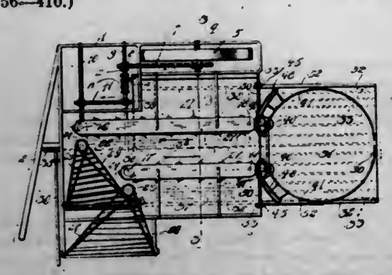
an inactive position when the vehicle is in motion, and means for inserting into the casing to place the striking arm in said hook to retain it in an inactive position when the vehicle is in motion.

1,453,241. TOY FURNITURE. ARCHIBALD DUFFIELD, Derby, Conn. Filed Aug. 12, 1920. Serial No. 403,016. 5 Claims. (Cl. 46—37.)



1. As a new article of manufacture, toy furniture, comprising side members, end members, and legs having right angular members fitting throughout their width against the adjacent ends of the side and end members and having detachable inter-locking engagement therewith, whereby the parts can be readily assembled and taken apart for the purpose set forth.

1,453,242. GRAIN-SHOCKING MACHINE. WALTER OTTO EICHENBERGER, Gray, Saskatchewan, Canada. Filed Dec. 9, 1918. Serial No. 265,943. 2 Claims. (Cl. 56—410.)



1. A grain shocking machine of the character described comprising a wheeled frame, a sliding plate supported on said frame, conveyors on said frame leading to said plate, vertical shafts positioned adjacent said plate and conveyors, arms on said shaft for retaining shocks of grain on the plate, a movable forked frame, means for normally retaining said plate above said forked frame, means for sliding said plate whereby the shocks supported thereby may be deposited upon said forked frame, and

means operatively connecting said forked frame with said arms whereby the arms will release said grain shocks when the latter have been deposited upon said forked frame.

1,453,243. ADJUSTABLE GARMENT. JOSEPH EICHHORN, Columbia, Pa. Filed May 31, 1922. Serial No. 564,908. 2 Claims. (Cl. 2—143.)



2. A bifurcated garment having a waist portion and comprising a rear cloth piece on each side having a forwardly-extending flap at the waist portion, a front cloth piece on each side overlapping one of said rear pieces, there being side pocket openings under the overlapping edges of said front pieces, said rear and front pieces being sewed together at the sides of the garment below the pocket openings upwardly to the bottoms of those openings, a reinforcing strip sewed to each rear piece from the bottom of each pocket opening to a place below the top of said opening and extending from said place free of said rear piece and secured to said front piece with its rear edge positioned forwardly of the rear edge of said front piece and at the top of the pocket opening, there being an opening between the front and rear pieces extending through the waist portion of the garment downwardly to the place below the top of the pocket opening from which said reinforcing strip extends free, and a plurality of fastening means on said front pieces at the waist portion and on said flaps cooperable one with another.

1,453,244. FILM HOLDER. CHESTER SCOTT HOWLAND, New Bedford, Mass. Filed Apr. 21, 1921. Serial No. 463,333. 7 Claims. (Cl. 95—100.)



1. A film holder including a U-shaped frame, a cross member connecting the ends of the U-shaped frame, a rectangular frame hinged to the cross member and adapted to cooperate with one end of the U-shaped frame to hold a film.

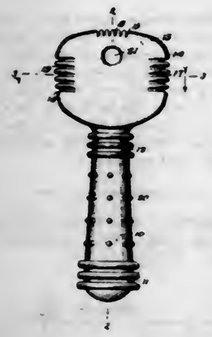
1,453,245. BUTTON. REUEL L. HUFFMAN, Brookfield, Mo. Filed Aug. 8, 1922. Serial No. 580,467. 1 Claim. (Cl. 24—95.)

A button comprising a body, a cylindrical neck extending from one side of the body and coaxial therewith, an annular flange extending inwardly around the outer end of the cylindrical neck and an attaching plate having a plurality of resilient hooks extending parallel to the axes of the body and attaching plate in assembly, said hooks having shanks arranged so that the outer



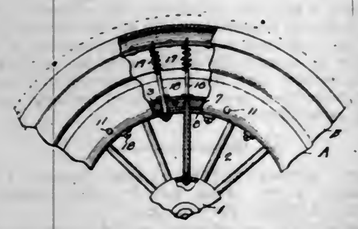
lateral faces of the shanks engage the inner peripheral face of the flange in assembly, said hooks also having outwardly extending projections at their free ends adapted to extend over and positively and directly engage the inner lateral face of the flange in the assembly.

1,453,246. SCISSORS SHARPENER. EMILY JONES, Brooklyn, N. Y. Filed Mar. 16, 1922. Serial No. 544,204. 1 Claim. (Cl. 51—205.)



As a new article of manufacture, a scissors sharpener of the character described, comprising a tapering cylindrical handle, a plurality of circumferential ridges formed integral with the handle at each end, said circumferential ridges being spaced apart forming circumferential grooves, a head having an opening therethrough formed integral with the smaller end of the handle, and a plurality of curved faces of different thickness formed on the head, each curved face having a plurality of grooves formed therein.

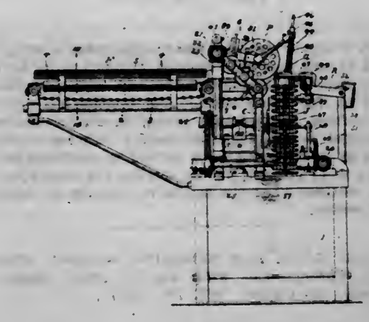
1,453,247. SPRING WHEEL. CHARLES A. KIGGINS, Weskan, Kans. Filed Feb. 25, 1920. Serial No. 361,131. 2 Claims. (Cl. 152—37.)



2. A resilient wheel comprising a hub, an inner rim portion, an outer rim portion slidably associated with

the inner rim portion, tubular spokes rigidly connecting the inner rim portion and the hub, radially extending rods fitted in the spokes and extending into the rim portions and terminating short of the outer wall of the outer rim portion, oppositely directed outwardly inclined coil springs secured to each rod at the outer terminal thereof and to the opposite side walls of the outer rim portion, relatively short rods rigidly secured to the inner rim portion intermediate the spokes extending radially from the inner rim portion and terminating short of the outer wall of the outer rim portion, and spring means connected with the terminals of the relatively short rods and with said outer rim sections.

1,453,248. GREEN - CORN - DEBUTTING MACHINE. WILLIAM HAMMOND LEISTER, Westminster, Md., assignor to The United Machinery Company, Westminster, Md., a Corporation of Maryland. Filed Sept. 20, 1917. Serial No. 192,367. 83 Claims. (Cl. 146—11.)



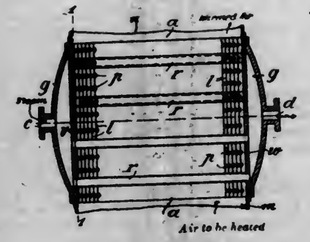
1. A corn debutting machine including cutting means, aliining means engaging the body of the ear proper to find the grain shoulder for positioning the ear by the grain shoulder relative to the cutting means, and means for giving said ear of corn and aliining means a relative movement to bring about the positioning of the ear on said aliining means.

1,453,249. ASSOCIATION VANITY BOX. ARTHUR E. ROPE, Brooklyn, N. Y. Filed Mar. 23, 1922. Serial No. 546,087. 5 Claims. (Cl. 132—83.)



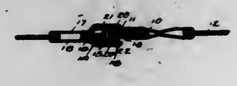
1. A device of the character described, comprising a plurality of independent containers, webs fixedly connecting the containers, and plates at the ends of the webs and spaced from the ends of the containers.

1,453,250. HEAT-EXCHANGING APPARATUS. RICHARD SCHNOECKEL, Auerbach, Germany, assignor to C. G. Haubold Aktien-Gesellschaft, Chemnitz, Germany, a Joint-Stock Company of Germany. Filed Aug. 26, 1922. Serial No. 584,593. 1 Claim. (Cl. 257—245.)



A heat exchange apparatus of the type having a plurality of substantially parallel plates pierced by a plurality of substantially parallel pipes at substantially right angles to said plates, the said plates being provided at regular intervals with struck-up portions in the form of parts of spheres, the struck-up portions of all the plates being similarly arranged on said plates, and being on the same sides of said plates, whereby a given plate is everywhere at substantially the same distance from its neighbor, including the stuck-up portion, the said plates being imperforate except as regards the perforations for accommodating the pipes above specified.

1,453,251. FASTENER FOR REVERSIBLE GARMENTS. JOHN J. SOMERS, Bridgeport, Conn. Filed Aug. 31, 1922. Serial No. 585,516. 8 Claims. (Cl. 24—222.)

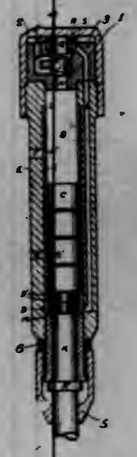


1. A fastener for reversible garments, comprising loop members carried by one edge of the reversible garment, studs slidably mounted in the other edge of the reversible garment, and means attached to the reversible garment for forcing the studs to either side of the reversible garment to engage the loop members.

1,453,252. AUTOMATIC STOPPING DEVICE FOR PNEUMATIC TOOLS. LEOPOLD ROBIVE, Brussels, Belgium. Filed Apr. 11, 1919. Serial No. 289,379. 3 Claims. (Cl. 121—11.)

1. In a fluid pressure actuated tool, a cylinder, a tool carried at one end of the cylinder to have a limited movement into and out of the cylinder, a reciprocable hammer piston in the cylinder to co-operate with the tool, inlet ports to the cylinder at opposite sides of the piston, a valve to control the entrance of the actuating fluid through said ports to the cylinder controlled by the pressure within the cylinder, exhaust ports from the cylinder at opposite sides of the piston, and a valve op-

erated by the actuating fluid to shut off the exhaust ports from the cylinder when the tool is relieved of the pres-



sure thereof upon the work and place the piston under equilibrium by the actuating fluid for the purpose specified.

1,453,253. METALLIC HEEL FOR SHOES AND THE LIKE. ANGEL KURTIS, now by judicial change of name ANGELOS KURTIS, Boston, Mass. Filed Jan. 21, 1921. Serial No. 438,861. 3 Claims. (Cl. 36—40.)

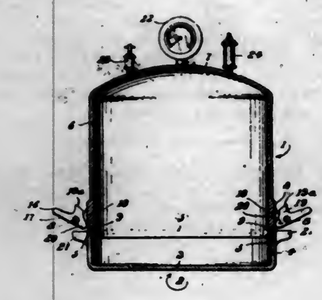


1. The combination of a hollow metallic heel member having plate supporting lugs interiorly therein, which are supplied with tapped holes for engaging with coupling screws; a perforated tap-plate adapted to be secured to a shoe bottom and provided with means for interlockingly fitting said lugs of said heel member for supportingly setting the plate within said heel member, and screw holes registering with the tapped holes of said heel member; and coupling screws adapted to engage the heel member with the tap-plate in set position and to anchor said heel member securely to the shoe.

1,453,254. ALLOY AND PROCESS OF MAKING THE SAME. ALLEN B. NORTON, Cleveland, Ohio, assignor to Aluminum Manufacturers, Incorporated, Cleveland, Ohio, a Corporation of Delaware. Filed May 31, 1921. Serial No. 473,826. 10 Claims. (Cl. 75—1.)

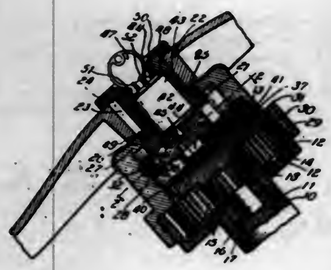
1. The process of making an alloy containing aluminum and metals having relatively high melting points as compared with aluminum, which comprises melting the aluminum, adding a high melting point metal in solid form to the molten aluminum and then adding a high melting point metal in molten form to the molten aluminum.

1,453,255. STEAM-PRESSURE COOKER. HENRY A. POPPERT, Milwaukee, Wis., assignor to Henry A. Poppert & Son Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 8, 1922. Serial No. 580,424. 3 Claims. (Cl. 53—2.)



3. In a steam pressure cooker embodying a receptacle formed of two separable sections adapted to be held together, combined lifting handles and separating means carried by the upper section and cooperating with the lower section, each of said lifting handles embodying a leg pivoted to the upper section, a cam-lug extension carried by said leg and a lug carried by the lower section adapted to be engaged by the cam-lug for separating the cooker sections when the handle is operated to raise the upper section.

1,453,256. LOCK FOR STEERING GEARS. WILLIAM GANZ, Chicago, Ill. Filed Dec. 7, 1921. Serial No. 520,468. 20 Claims. (Cl. 70—129.)

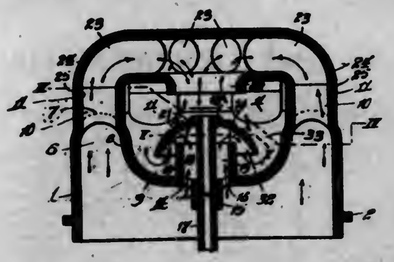


4. In a steering gear, a steering column, a steering shaft therein, a steering wheel, means adapted to simultaneously disconnect said steering wheel from said steering shaft, and secure said steering shaft against steering movement.

1,453,257. OIL BURNER. FERDINAND C. BRETSNYDER, St. Louis, Mo. Filed Jan. 17, 1919, Serial No. 271,605. Renewed Mar. 5, 1923. 2 Claims. (Cl. 158—01.)

1. An oil burner comprised of a housing having an inner and an outer circular wall, said walls being joined to each other by a curved top wall formed integral therewith, said inner wall curving inwardly at its lower end thereby providing a bowl within said inner wall in which the curving of the lower end of said inner wall forms a bottom to the bowl, a tubular extension formed integral with the bottom of said bowl forming a passageway to said bowl from therebeneath, an oil spreader extended above said extension having its lower edge extended on a plane below and on the outside of the upper end of said

extension, said walls of said housing forming an annular passageway, said upper wall of said housing having a plu-



rality of openings, and there being means provided for entraining air currents from said openings of said upper wall to the top of said spreader.

1,453,258. PROCESS OF MAKING A CONTACT TRANSFER PRINTING SURFACE WITH A COLORED EMULSION. ROBERT JOHN, New York, N. Y., assignor to Daylight Film Corporation, a Corporation of New York. Filed Oct. 23, 1919. Serial No. 332,806. 14 Claims. (Cl. 95—5.6.)

1. The process of forming a photographic record of lights and shades capable of use as a transfer printing plate, which comprises coloring a sensitized emulsion with a color complementary to the exposure light, exposing said emulsion to the lights and shades desired to be recorded, and hardening portions of emulsion adjacent the light affected sensitive content of a photographic emulsion with an agent adapted to harden said emulsion by reaction with the light affected sensitive content of the emulsion, and with a neutralizing agent for said hardening agent, the relative proportions of said hardening and neutralizing agents being such as to control selectively the effective area of influence of the hardening agent but to an extent less than the complete neutralization of said hardening agent.

1,453,259. PRINTING PLATE AND PROCESS AND COMPOSITION OF MATTER FOR FORMING THE SAME AND PROCESS OF PRINTING. ROBERT JOHN, New York, N. Y. Filed Aug. 16, 1922. Serial No. 582,321. 104 Claims. (Cl. 101—426.)

102. The process of printing which comprises forming on a backing a colloid coating, hardening said coating, sensitizing said colloid with a chromic acid salt, exposing said colloid to a light image, then without removng the unaltered portion of said salt, accentuating the difference in water-receptiveness between the exposed and unexposed portions of the colloid, removing the unaffected portions of said salt from the said colloid coating, hardening said colloid coating and heating said plate, moistening said plate, applying ink thereto, emulsifying said ink with the said water on said plate and transferring said ink.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Flavoring Co., Portland, Oreg. Food-flavoring extracts. 166,477; Apr. 3; Serial No. 166,069; published Jan. 16, 1923.

Acme Grocery Co., The, Chicago, Ill. Canned fruit and vegetables. 166,443; Apr. 3; Serial No. 166,625; published Jan. 16, 1923.

Aero-Kord Co. (See Berdon, Albert E.)

Air-Way Electric Appliance Corporation, The, Toledo, Ohio. Radio outfits and parts thereof. 166,428; Apr. 3; Serial No. 164,483; published Dec. 26, 1922.

Alexander, Armstead M., Independence, Mo. Ice cream. 166,445; Apr. 3; Serial No. 166,494; published Jan. 16, 1923.

Alling, Johan, Stockholm, Sweden. Steel pens. 166,361; Apr. 3; Serial No. 170,601; published Dec. 5, 1922.

Alouf Bros., Roanoke, Va. Coffee. 166,450; Apr. 3; Serial No. 166,217; published Jan. 16, 1923.

Alpine Chocolate Company, Boston, Mass. Candy. 166,359; Apr. 3; Serial No. 152,666; published Jan. 16, 1923.

Aluminum Company of America, Pittsburgh and New Kensington, Pa. Aluminum household, kitchen and cooking utensils. 166,413; Apr. 3; Serial No. 167,115; published Jan. 2, 1923.

American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. 166,380; Apr. 3; Serial No. 169,739; published Nov. 7, 1922.

American Tablet Co., Green Bay, Wis. Tablets. 166,366; Apr. 3; Serial No. 170,175; published Nov. 14, 1922.

American Thermostat Co., Newark, N. J. Thermostatic temperature-control apparatus. 166,491; Apr. 3; Serial No. 171,115; published Jan. 2, 1923.

Anaconda Lead Products Company, New York, N. Y. White lead, both dry and in oil. 166,434; Apr. 3; Serial No. 164,094; published Jan. 9, 1923.

Anita Company, The. (See Rostow, Anna D.)

Ansco Company, Binghamton, N. Y. Photographic films. 166,463; Apr. 3; Serial No. 169,274; published Jan. 2, 1923.

Art Industries, Inc. (See Waldmeyer, Francis J., assignor.)

Beckwith Co., The, Reedley, Calif. Preserved figs. 166,420; Apr. 3; Serial No. 164,861; published Jan. 9, 1923.

Berdon, Albert E., doing business as Aero-Kord Co., Detroit, Mich. Combined cords and plugs used to connect translating devices with lamp sockets. 166,417; Apr. 3; Serial No. 165,658; published Jan. 9, 1923.

Bertini Bros., Chicago, Ill. Olive oil. 166,454; Apr. 3; Serial No 166,034; published Jan. 16, 1923.

Blackford, Herbert R., Brooklyn, N. Y. Candied pop corn and other pop-corn confections. 166,432; Apr. 3; Serial No. 164,153; published Jan. 9, 1923.

Bonadio & Merchiorri Co., Pittsburgh, Pa. Alimentary paste. 166,476; Apr. 3; Serial No. 166,973; published Jan. 16, 1923.

Bonita Company, The, Fond du Lac, Wis. Candy. 166,343; Apr. 3; Serial No. 160,856; published Jan. 9, 1923.

Bownes, Frank, Company Inc., Lynn, Mass. Paint enamels. 166,484; Apr. 3; Serial No. 170,619; published Jan. 9, 1923.

Bristol Company, The, Waterbury, Conn. Electrical loud-speaking receivers, horns, control boxes, etc. 166,471; Apr. 3; Serial No. 168,098; published Jan. 9, 1923.

Brown, R. J., Petroleum Company, St. Louis, Mo. Thinning oil. 166,442; Apr. 3; Serial No. 166,646; published Jan. 9, 1923.

Burdette-Murray Company, The, Cleveland, Ohio. Pantographs. 166,468; Apr. 3; Serial No. 168,669; published Jan. 2, 1923.

Burhorn, Edwin Co., New York, N. Y. Noncorroding and nonrusting alloys, rolled plates and sheets of such alloys, etc. 166,358; Apr. 3; Serial No. 149,210; published Jan. 2, 1923.

Cairo Food Products Company, Cairo, Ill. Chocolate-covered ice-cream bar. 166,507; Apr. 3; Serial No. 163,328; published Jan. 9, 1923.

Callidendron Mfg. & Chemical Corp., Brooklyn, N. Y. Polishing creams for painted, varnished, and lacquered surfaces. 166,467; Apr. 3; Serial No. 168,824; published Jan. 9, 1923.

Cartoning Machinery Corporation, Newark, N. J., and Newport, R. I. Carton and box filling machinery. 166,412; Apr. 3; Serial No. 166,933; published Jan. 2, 1923.

Caulk, L. D., Company, The, Milford, Del. Cement for filling teeth and liquid therefor. 166,520; Apr. 3; Serial No. 172,082; published Jan. 9, 1923.

Caulk, L. D., Company, The, Milford, Del. Dental alloy. 166,521; Apr. 3; Serial No. 172,081; published Jan. 9, 1923.

Cervelli, Blanche, San Francisco, Calif. Hip and bust reducer. 166,458; Apr. 3; Serial No. 169,890; published Jan. 9, 1923.

Charter Chocolate Company, Boston, Mass. Candy. 166,352; Apr. 3; Serial No. 141,556; published Jan. 9, 1923.

Chemical Fire Apparatus Company. (See Frey, Henry R.)

Cheney Brothers, South Manchester, Conn. Silk fabrics in the piece. 166,381; Apr. 3; Serial No. 169,701; published Dec. 19, 1922.

Chester, C. L., Productions, Inc., Hollywood, Calif., assignor to Globe Trots Films, Inc., New York, N. Y. Motion pictures reproduced in copies for sale. 166,354; Apr. 3; Serial No. 146,692; published Dec. 26, 1922.

Chillicothe Paper Company, The, Chillicothe, Ohio. Writing paper, bond. 166,371; Apr. 3; Serial No. 170,005; published Dec. 5, 1922.

Chisholm, John F., Philadelphia, Pa. Ready-mixed paints, paints for protecting metals, and black coating paints. 166,485; Apr. 3; Serial No. 170,621; published Jan. 9, 1923.

Cincinnati Storage Battery Company, The, Cincinnati, Ohio. Electric batteries. 166,356; Apr. 3; Serial No. 148,958½; published Jan. 16, 1923.

Clancy, James E., Lynbrook, N. Y. Peanuts in the shell. 166,448; Apr. 3; Serial No. 166,346; published Jan. 16, 1923.

Consumers Biscuit Company, New Orleans, La. Molded sugar candy in the shape of chickens, rabbits, and eggs. 166,430; Apr. 3; Serial No. 164,282; published Jan. 9, 1923.

Contra Chemical Co. (See Schmidt, Frank P.)

Cotter, R. E., Company, San Francisco, Calif. Canned vegetables, fruits, and fish. 166,453; Apr. 3; Serial No. 166,453; published Jan. 16, 1923.

D-A Lubricant Company, Inc., Indianapolis, Ind. Motor and tractor lubricating oils. 166,493; Apr. 3; Serial No. 171,225; published Jan. 9, 1923.

Decorata Mfg. Co. (See O'Neill, Peter L.)

De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radio apparatus. 166,344; Apr. 3; Serial No. 159,955; published Jan. 9, 1923.

Dentald Products Co. (See Smith, Russell O. L.)

Detroit Brass & Malleable Works, Detroit, Mich. Brass valves and cocks, gas appliances, etc. 166,401; Apr. 3; Serial No. 153,649; published July 4, 1922.

Detroit Dental Manufacturing Company, Detroit, Mich. Rubber-dam holders. 166,490; Apr. 3; Serial No. 171,065; published Jan. 9, 1923.

De Vilbiss Manufacturing Co., The, Toledo, Ohio. Compressed-air spraying machines for applying paints, varnishes, etc., hose cleaners, etc. 166,404; Apr. 3; Serial No. 161,177; published Jan. 2, 1923.

Dodge, Sweeney & Co., San Francisco, Calif. Canned fruits, vegetables, and fish. 166,499; Apr. 3; Serial No. 162,724; published Jan. 9, 1923.

Duro Pump & Manufacturing Company, The, Dayton, Ohio. Pneumatic pressure systems, pumps, and fluid-pressure motors, explosive engines, and parts thereof. 166,416; Apr. 3; Serial No. 171,630; published Jan. 2, 1923.

East Tennessee Packing Company, Knoxville, Tenn. Bacon, ham, boiled ham, sugar-cured meats. 166,341; Apr. 3; Serial No. 161,622; published Jan. 9, 1923.

Elizabeth Candy Shops, The. (See Steeves, Elizabeth.)

Emily Brassiere Co. (See Shain, Harry.)

Faichney, G., Company, The, Watertown, N. Y. Clinical and medical thermometers, hypodermic syringes and needles. 166,478; Apr. 3; Serial No. 170,013; published Jan. 9, 1923.

Fair, William B., Habana, Cuba. Canned sausage. 166,511; Apr. 3; Serial No. 163,675; published Jan. 9, 1923.

Federal Telephone & Telegraph Co., Buffalo, N. Y. Telephone, telegraph, and radio apparatus. 166,470; Apr. 3; Serial No. 168,106; published Dec. 26, 1922.

Feist, Max, New York, N. Y. Silk and artificial-silk piece goods, cotton, wool, and combinations thereof. 166,369; Apr. 3; Serial No. 170,059; published Jan. 9, 1923.

Finkl, A., & Sons Company, Chicago, Ill. Forgings of steel alloy. 166,414; Apr. 3; Serial No. 168,623; published Jan 2, 1923.

Fishback Co., The, Indianapolis, Ind. Coffee. 166,456; Apr. 3; Serial No. 165,920; published Jan. 16, 1923.

Fitzgerald Manufacturing Company, The, Torrington, Conn. Portable electric motors. 166,492; Apr. 3; Serial No. 171,159; published Jan. 9, 1923.

Frey, Henry R., doing business as Chemical Fire Apparatus Company, Portland, Oreg. Dry-powder tube fire extinguishers. 166,449; Apr. 3; Serial No. 166,289; published Jan. 2, 1923.

Frontier Manufacturing Company, North Tonawanda, N. Y. Lubricating and cutting oils and greases. 166,360; Apr. 3; Serial No. 170,878; published Dec. 19, 1922.

Glendale Chemical Company. (See Williams, Maurice M.)

Glimmerglen Farms, Inc., Cooperstown and New York, N. Y. Horse blankets. 166,362; Apr. 3; Serial No. 170,525; published Dec. 19, 1922.

Globe Trots Films, Inc. (See Chester, C. L., Productions, Inc., assignor.)
Gorham Chocolate Company, Inc., Brooklyn, N. Y. Candy. 166,505; Apr. 3; Serial No. 163,269; published Jan. 9, 1923.
Grady Mfg. Co., The, Long Island City, N. Y. Furniture polish. 166,376; Apr. 3; Serial No. 169,806; published Dec. 5, 1922.
Graves, N. Z., Incorporated, Philadelphia, Pa. Varnishes, paints, both ready mixed and paste, japans. 166,461; Apr. 3; Serial No. 169,548; published Jan. 9, 1923.
Hall, C. C., Inc., Rochester, N. Y. Evaporated apples. 166,455; Apr. 3; Serial No. 165,999; published Jan. 16, 1923.
Haloid Company, The, Rochester, N. Y. Photographic developing papers. 166,480; Apr. 3; Serial No. 170,288; published Jan. 2, 1923.
Harrison, George, jr., doing business as The Lonesome Pine Apiaries, Bluemont, Va. Honey. 166,509–10; Apr. 3; Serial Nos. 163,664–5; published Jan. 9, 1923.
Hickory Hill Farm, Jefferson City, Mo. Hams. 166,346; Apr. 3; Serial No. 158,311; published Jan. 16, 1923.
Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. 166,500; Apr. 3; Serial No. 162,738; published Jan. 16, 1923.
Humble Oil & Refining Company, Houston, Tex. Cylinder oil, locomotive cylinder oil, marine cylinder oil, etc. 166,460; Apr. 3; Serial No. 169,594; published Jan. 9, 1923.
Hunter, Henry L., & Co., Dorchester, Mass. Polish for painted and varnished surfaces. 166,373; Apr. 3; Serial No. 169,974; published Dec. 19, 1922.
Hussmann, Harry L., Refrigerator & Supply Co., St. Louis, Mo. Show-case refrigerators. 166,379; Apr. 3; Serial No. 169,760; published Nov. 7, 1922.
I-sis Laboratories, Inc., New York, N. Y. Cleaning and polishing preparation for automobiles, furniture, etc. 166,519; Apr. 3; Serial No. 172,163; published Jan. 9, 1923.
Inlander-Steindler Paper Company, Chicago, Ill. Toilet paper. 166,365; Apr. 3; Serial No. 170,141; published Nov. 14, 1922.
Inlander-Steindler Paper Company, Chicago, Ill. Wrapping paper. 166,367; Apr. 3; Serial No. 170,140; published Nov. 28, 1922.
Interchangeable Parts Company, Newark, N. J. Cylinder blocks and heads, gear-case covers for hydrocarbon engines. 166,516; Apr. 3; Serial No. 163,750; published Nov. 14, 1922.
International Welding Engineering Corporation, Chicago, Ill. Arc-welding metal electrodes. 166,405; Apr. 3; Serial No. 162,011; published July 18, 1922.
Interstate Gasoline Co., Wichita Falls, Tex., and New York, N. Y. Petroleum products—namely, gasoline. 166,424; Apr. 3; Serial No. 164,807; published Jan. 9, 1923.
Interstate Paint & Supplies Co., Inc., Buffalo, N. Y. Ready-mixed and paste paints. 166,398; Apr. 3; Serial No. 169,402; published Dec. 19, 1922.
Johnson & Co. Cable Cord, Inc., New York, N. Y. Cable cord, macramé cord, shade cord made from cotton. 166,418; Apr. 3; Serial No. 165,628; published Jan. 9, 1923.
Kalbfleisch, Adam H., near Mercedes, Tex. Fresh citrus fruits. 166,423; Apr. 3; Serial No. 164,809; published Jan. 9, 1923.
Kern, George, Inc., New York, N. Y. Food product consisting of tongues of animals. 166,508; Apr. 3; Serial No. 163,450; published Jan. 9, 1923.
Kewanee Boiler Company, Kewanee, Ill. Boilers, garbage burners, heaters, and tanks. 166,368; Apr. 3; Serial No. 170,070; published Nov. 28, 1922.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 166,504; Apr. 3; Serial No. 163,045; published Sept. 19, 1922.
Kling-Tite Products Co., Chicago, Ill. Ready-mixed roof paint. 166,486; Apr. 3; Serial No. 170,687; published Jan. 9, 1923.
Kuhn, Harry J., doing business as Kuhn Paint and Varnish Works, Houston, Tex. Prepared paints, varnishes, driers, paste paints, colors in oil, etc. 166,489; Apr. 3; Serial No. 171,023; published Jan. 9, 1923.
Kuhn Paint and Varnish Works. (See Kuhn, Harry J.)
Lee, John C., sr., Leesburg, Fla. Fresh oranges, grapefruit, and tangerines and other fresh citrus fruits. 166,421; Apr. 3; Serial No. 164,815; published Jan. 9, 1923.
Leesburg Packing House, Leesburg, Fla. Fresh oranges, grapefruit, and tangerines and other fresh citrus fruits. 166,422; Apr. 3; Serial No. 164,813; published Jan. 9, 1923.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 166,375; Apr. 3; Serial No. 169,813; published Dec. 19, 1922.
Lewis Oil Company, St. Louis, Mo. Lubricant dressing for automobile planetary transmissions, etc. 166,495; Apr. 3; Serial No. 171,852; published Jan. 9, 1923.
Lincoln Steel Products Company. (See Pence, Harry E.)
Little Rock Barrel & Box Co., Little Rock, Ark. Barrels, boxes, crates, and fruit and vegetable containers. 166,383; Apr. 3; Serial No. 169,679; published Dec. 19, 1922.
Litwood Oil & Supply Company, Fort Worth, Tex. Oils and greases. 166,347; Apr. 3; Serial No. 157,226; published Jan. 16, 1923.
Lonesome Pine Apiaries. (See Harrison, George, jr.)
Louda, Charles G., Detroit, Mich. Ice-cream bar. 166,506; Apr. 3; Serial No. 163,277; published Jan. 9, 1923.
Lucile Somarco Brassiere, The, New York, N. Y. Brassières. 166,378; Apr. 3; Serial No. 169,768; published Jan. 2, 1923.
McMullen, Hattie, Knoxville, Tenn. Cleanser for woodwork, furniture, leather goods, and rugs. 166,409; Apr. 3; Serial No. 166,697; published Dec. 12, 1922.
McSweeny, Eugene D., El Monte, Calif. Fresh vegetables—namely, potatoes. 166,501; Apr. 3; Serial No. 162,755; published Jan. 9, 1923.
Marathon Company, The, Cuyahoga Falls, Ohio. Safety straps to hold children in high chairs, gocarts, etc. 166,340; Apr. 3; Serial No. 162,027; published Jan. 9, 1923.
Marshall & Burke, Richmond, Calif. Paint and varnish remover. 166,459; Apr. 3; Serial No. 169,642; published Jan. 9, 1923.
Marshall Metal Corporation, Chicago, Ill. Aluminum welding metal. 166,370; Apr. 3; Serial No. 170,032; published Dec. 19, 1922.
Mewbenney, A. B., Co., Inc., Terre Haute, Ind. Candy. 166,437; Apr. 3; Serial No. 166,952; published Jan. 16, 1923.
Miami Paper Company, The, West Carrollton, Ohio. Bond and ledger paper for writing and printing purposes. 166,384; Apr. 3; Serial No. 169,644; published Nov. 7, 1922.
Monarch Telephone Manufacturing Company, Fort Dodge, Iowa. Electromagnetic telephone apparatus. 166,464; Apr. 3; Serial No. 168,933; published Dec. 26, 1922.
Moore-Fuller Oil Co., Creston, Iowa. Crude oils, fuel oils, gasoline, kerosene, floor oils, etc. 166,487; Apr. 3; Serial No. 170,778; published Jan. 9, 1923.
Moore & Kellar, Azusa, Calif. Rub varnish. 166,349; Apr. 3; Serial No. 152,857; published Jan. 9, 1923.
Morris, Emil, Detroit, Mich. Headrest paper. 166,399; Apr. 3; Serial No. 169,370; published Nov. 7, 1922.
Muralo Company, The, New York and New Brighton, N. Y. Cold-water paint. 166,465; Apr. 3; Serial No. 168,898; published Jan. 9, 1923.
Muralo Company, The, New York and New Brighton, N. Y. Dry powder to be mixed with cold water and used as a wall coating. 166,488; Apr. 3; Serial No. 170,986; published Jan. 9, 1923.
Naamlooze Vennootschap Hollandsche Cacao- en Chocoladefabrieken Voorheen Bensdorp & Co., Amsterdam, Netherlands. Cocoa. 166,426; Apr. 3; Serial No. 164,767; published Jan. 16, 1923.
Nash Coffee Company, Minneapolis, Minn. Peanut butter. 166,439; Apr. 3; Serial No. 166,901–2; published Jan. 16, 1923.
Nashua Gummed & Coated Paper Company, Nashua, N. H. Paper wrappers for fruit. 166,364; Apr. 3; Serial No. 170,254; published Nov. 28, 1922.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, certified food colors, and intermediates. 166,390–7; Apr. 3; Serial Nos. 169,409–16; published Oct. 24, 1922.
National Egg Products Company, Los Angeles, Calif. Powder for making scrambled eggs. 166,440; Apr. 3; Serial No. 166,897; published Jan. 16, 1923.
New York Knife Company, New York, N. Y. Pocket and hunting knives. 166,474; Apr. 3; Serial No. 167,316; published Jan. 2, 1923.
Nitram Manufacturing Co., The, East Orange, N. J., and New York, N. Y. Knitted bags. 166,522–3; Apr. 3; Serial Nos. 172,007–8; published Jan. 9, 1923.
Okuda, K., Livingston, Calif. Fresh grapes. 166,435; Apr. 3; Serial No. 164,067; published Jan. 16, 1923.
O'Neill, Peter L., doing business as Decorata Mfg. Co., Jersey City, N. J. Gold, bronze, and aluminum paints and finishing compounds. 166,374; Apr. 3; Serial No. 169,959; published Dec. 5, 1922.
Owenwood Oil Corporation, Wilmington, Del., and Fort Worth, Tex. Oils and greases. 166,351; Apr. 3; Serial No. 140,959; published Jan. 9, 1923.
Pacific Coast Biscuit Company, Seattle, Wash. Candy. 166,431; Apr. 3; Serial No. 164,188; published Dec. 19, 1922.
Paraffine Companies, Inc., The, San Francisco, Calif. Varnish. 166,382; Apr. 3; Serial No. 169,683; published Dec. 5, 1922.
Pastene P., & Co., Inc., Boston, Mass. Canned peeled tomatoes, roasted peppers, and tomato sauce. 166,452; Apr. 3; Serial No. 166,095; published Jan. 16, 1923.
Penberthy Injector Company, Detroit, Mich. Vaporizing devices for engines. 166,353; Apr. 3; Serial No. 146,132; published Jan. 2, 1923.
Pence, Harry E., doing business as Lincoln Steel Products Company, Minneapolis, Minn. Pistons, piston pins, and shafts for automobile motors, etc. 166,411; Apr. 3; Serial No. 166,850; published Jan. 2, 1923.
Pennsylvania Pump & Compressor Co., Easton, Pa. Compressors and pumps and attachments therefor. 166,438; Apr. 3; Serial No. 166,906; published Jan. 2, 1923.
Physician's Radiopathic Company, Los Angeles, Calif. Radioactive pads for surgical or medical use. 166,497; Apr. 3; Serial No. 162,265; published Jan. 9, 1923.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Gas and oil lamps. 166,517; Apr. 3; Serial No. 159,523; Mar. 28, 1922.

Producers Canning and Packing Company, The, Salem, Oreg. Canned fruits. 166,429; Apr. 3; Serial No. 164,257; published Jan. 9, 1923.
Pryibil, P., Machine Company, Inc., New York, N. Y. Wood and metal working machines, tools, and supplies. 166,402; Apr. 3; Serial No. 160,719; published Jan. 2, 1923.
Radio Engineering & Sales Co., The, doing business as The Resco Radio Co., Cleveland, Ohio. Radio receiving sets, radio receiving and sending sets parts. 166,447; Apr. 3; Serial No. 166,405; published Jan. 16, 1923.
Radius Tool Co. (See Sheberashenko Andrey.)
Ruiz, Gonzalo, New York, N. Y. Puncture-filling compound for automobile and other tires. 166,481; Apr. 3; Serial No. 170,406; published Jan. 9, 1923.
Reboul, Theophile T., New Orleans, La. Coffee. 166,512; Apr. 3; Serial No. 163,698; published Jan. 9, 1923.
Resco Radio Co., The. (See Radio Engineering & Sales Co.)
Riggs, Thomas E., Independence, Mo. Washing compounds. 166,410; Apr. 3; Serial No. 166,749; published Dec. 5, 1922.
Robinson Silk Company, Inc., Astoria and New York, N. Y. Silk piece goods. 166,386–7; Apr. 3; Serial Nos. 169,497–8; published Dec. 12, 1922.
Rockland Hosiery Mills, Philadelphia, Pa. Hosiery. 166,406; Apr. 3; Serial No. 165,415; published Nov. 7, 1922.
Rohm & Haas Company, Philadelphia, Pa. Sulphoxylate of zinc formaldehyde. 166,407; Apr. 3; Serial No. 166,018; published Jan. 2, 1923. The Anita Company.
Rostow, Anna D., doing business as, Newark, N. J. Nose adjusters. 166,363; Apr. 3; Serial No. 170,507; published Dec. 19, 1922.
Santa Paula Citrus Fruit Association, Santa Paula, Calif. Fresh lemons. 166,513; Apr. 3; Serial No. 163,701; published Jan. 9, 1923.
Santa Paula Citrus Fruit Association, Santa Paula, Calif. Fresh lemons. 166,514; Apr. 3; Serial No. 163,704; published Jan. 9, 1923.
Schmidt, Frank P., doing business as Contra Chemical Co., Quincy, Ill. Paint and varnish removers. 166,446; Apr. 3; Serial No. 166,409; published Jan. 9, 1923.
Schrem, Albert, Glengen, Germany. Box openers and nail pullers. 166,415; Apr. 3; Serial No. 168,621; published Dec. 26, 1922.
Seaside Oil Company, Summerland, Calif. Petroleum products. 166,496; Apr. 3; Serial No. 171,961; published Jan. 9, 1923.
Shain, Harry, doing business as Emily Brassiere Co., New York, N. Y. Brassières, bandeaux, and corsets. 166,389; Apr. 3; Serial No. 169,425; published Dec. 5, 1922.
Shapleigh Hardware Company, St. Louis, Mo. Enameled ware consisting of rice boilers, mixing bowls, washbowls, etc. 166,408; Apr. 3; Serial No. 166,608; published Jan. 2, 1923.
Sheberashenko, Andrey, doing business as Radius Tool Co., Detroit, Mich. Radius tools and knurling tools for holders. 166,503; Apr. 3; Serial No. 162,954; published Jan. 2, 1923.
Smith, Russell O. L., doing business as Dentaid Products Co., Buffalo, N. Y. Paste for holding dental plates in position. 166,473; Apr. 3; Serial No. 167,693; published Jan. 9, 1923.
Smith-Yingling Company, Westminster, Md. Canned vegetables. 166,419; Apr. 3; Serial No. 165,091; published Jan. 9, 1923.
Smith-Yingling Company, Westminster, Md. Canned vegetables. 166,425; Apr. 3; Serial No. 164,779; published Jan. 9, 1923.
Société des Peintures Economiques "Fixalo," Marseille, France. Water-color paints. 166,357; Apr. 3; Serial No. 149,149; published Jan. 9, 1923.
Southwest Georgia Watermelon Growers' Association, Adel, Ga. Watermelons in their natural state. 166,427; Apr. 3; Serial No. 164,673; published Jan. 9, 1923.
"Sta-Rite" Mfg. Co., Asheville, N. C. Polishing preparation for painted, varnished, or enameled surfaces and for automobile bodies, etc. 166,372; Apr. 3; Serial No. 169,988; published Dec. 5, 1922.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 166,494; Apr. 3; Serial No. 171,666; published Jan. 2, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 166,345; Apr. 3; Serial No. 159,816; published Jan. 9, 1923.
Stanley Chemical Company, The, East Berlin, Conn. Dry, paste, and ready-mixed industrial and house paints, varnishes, japans, and paint enamels. 166,498; Apr. 3; Serial No. 162,514; published Jan. 9, 1923.
Steeves, Elizabeth, doing business as The Elizabeth Candy Shops, Waltham, Mass. Candies and salted nuts. 166,515; Apr. 3; Serial No. 163,716; published Jan. 9, 1923.
Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets, eyelets, lacing hooks, grommets, etc. 166,400; Apr. 3; Serial No. 147,814; published Jan. 2, 1923.
Strype, Fred C., New York, N. Y. Wrapping paper, waxed, parchment, and greaseproof paper, etc. 166,377; Apr. 3; Serial No. 169,790; published Nov. 14, 1922.
Sunland Packing House Company, Porterville, Calif. Fresh citrus fruits. 166,451; Apr. 3; Serial No. 166,106; published Jan. 16, 1923.
Tea Rose Corporation, Brooklyn, N. Y. Mayonnaise dressing, jams, and jellies. 166,350; Apr. 3; Serial No. 138,657; published Jan. 9, 1923.
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 166,436; Apr. 3; Serial No. 163,899; published Oct. 3, 1923.
Therapeutic Appliance Corporation, The, St. Louis, Mo. Chest splint. 166,524; Apr. 3; Serial No. 171,970; published Jan. 9, 1923.
Virden Packing Company, South San Francisco and Oakland, Calif. Cooked corn beef. 166,342; Apr. 3; Serial No. 161,161; published Jan. 9, 1923.
Waldemeyer, Francis J., New York, N. Y., assignor to Art Industries, Inc. Molded objects made from compositions containing sulphur. 166,444; Apr. 3; Serial No. 166,543; published Jan. 9, 1923.
Walters, R. S., Co. (See Walters, Russell S.)
Walters, Russell S., doing business as R. S. Walters Co., Clinton, Iowa. Candy. 166,433; Apr. 3; Serial No. 164,140; published Jan. 16, 1923.
Walton, Charles & Son, Needham Heights, Mass. Seamless elastic hosiery for sprains, varicose veins, etc. 166,482; Apr. 3; Serial No. 170,554; published Jan. 9, 1923.
Warren I. Bailey Co., Los Angeles, Calif. Lubricating oils and greases. 166,518; Apr. 3; Serial No. 172,247; published Jan. 9, 1923.
Watchung Springs Co., Plainfield, N. J. Coffee in beverage form. 166,441; Apr. 3; Serial No. 166,796; published Jan. 16, 1923.
Way, Frances M., doing business as George P. Way, Artificial Ear-Drum Company, Detroit, Mich. Eardrums. 166,388; Apr. 3; Serial No. 169,429; published Dec. 19, 1922.
Way, George P., Artificial Ear-Drum Company. (See Way, Frances M.)
Westlake, Albert, New York, N. Y. Milk bottles. 166,385; Apr. 3; Serial No. 169,513; published Jan. 9, 1923.
Wickwire Spencer Steel Corporation, Worcester, Mass. Galvanized-wire cloth. 166,403; Apr. 3; Serial No. 160,737; published Dec. 19, 1922.
Williams, Maurice M., doing business as Glendale Chemical Company, Dallas, Tex. Automobile polish. 166,469; Apr. 3; Serial No. 168,660; published Nov. 7, 1922.
Williamsport Wire Rope Distributing Company, Houston, Tex., and Tulsa, Okla. Wire rope. 166,472; Apr. 3; Serial No. 167,746; published Jan. 9, 1923.
Wolf Company, The, Chambersburg, Pa. Milling machinery. 166,475; Apr. 3; Serial No. 167,002; published Jan. 2, 1923.
Wondruschka-Duda Company, New York, N. Y. Cutting and lubricating oil composed of cotton oil, tallow, and soap. 166,483; Apr. 3; Serial No. 170,555; published Jan. 9, 1923.
Woodard, Clarke & Co., Portland, Oreg. Combination steel and elastic trusses. 166,355; Apr. 3; Serial No. 147,174; published Jan. 9, 1923.
Woodward, J. H., Company, Minneapolis, Minn. Icing sugar. 166,348; Apr. 3; Serial No. 155,726; published Jan. 9, 1923.
Wyandotte Olive Growers Association, Oroville, Calif. California ripe olives and olive oil. 166,502; Apr. 3; Serial No. 162,789; published Jan. 16, 1923.
York Street Flax Spinning Co., Limited, Belfast, Ireland. Linen small wares—namely, tablecloths, napkins, towels, sheets, etc. 166,466; Apr. 3; Serial No. 168,864; published Dec. 26, 1922.
Youngstown Welding Company, The, Youngstown, Ohio. Metal tanks. 166,479; Apr. 3; Serial No. 170,231; published Jan. 9, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ad-Packed Hair Net Co., Inc., New York, N. Y. Childs Very Best Hair Net. For Hair Nets. 25,772; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Philco Hair Net. For Hair Nets. 25,773; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Golden Rose Hair Net. For Hair Nets. 25,774; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Famous Brand Hair Net. For Hair Nets. 25,775; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Bernice Guaranteed Perfect Hair Net. For Hair Nets. 25,776–8; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Wanda Guaranteed Perfect Hair Net. For Hair Nets. 25,779; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Blendwell Hair Net. For Hair Nets. 25,780; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Bernice Hair Net. For Hair Nets. 25,781; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Konomy Hair Net. For Hair Nets. 25,782; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Mavourneen Hair Net. For Hair Nets. 25,783; Apr. 3.

Ad-Packed Hair Net Co., Inc., New York, N. Y. D. P. Hair Net. For Hair Nets. 25,784; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Portage Hair Net. For Hair Nets. 25,785; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Flory's Blendwell Hair Net. For Hair Nets. 25,786; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Par-Lin Hair Net. For Hair Nets. 25,787; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Gold Chain Hair Net. For Hair Nets. 25,788; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Hillco Hair Net. For Hair Nets. 25,789; Apr. 3.
Ad-Packed Hair Net Co., Inc., New York, N. Y. Rogers Hair Net. For Hair Nets. 25,790; Apr. 3.
Auto Indicator Company, Grand Rapids, Mich. Pocket Radio. For Pocket Radio Receiving Sets. 25,791; Apr. 3.
B. D. K. Company, The, Chicago, Ill. Patch-O-Paint. For an Enamel for Metal Surfaces. 25,792; Apr. 3.
Drummond, Herman F., Milwaukee, Wis. Drum's. For Malt Extract. 25,793; Apr. 3.
Florida Products Company, Inc., New York, N. Y. Pom-Ora. For Nonalcoholic Beverages. 25,794; Apr. 3.
Ginsburg Cigar Company, Davenport, Iowa. Cuban Prize. For Cigars. 25,795; Apr. 3.
Gordon, Mac, doing business as Saigo Varnish Works, New York, N. Y. Saigo. For Varnish. 25,796; Apr. 3.
Gotham Corporation, The, New York, N. Y. Fangerine. For Laxative and Corrective Preparations. 25,797; Apr. 3.
Hardwood Products Co., The, Mayville, Mich. Maid Of The Birch. For Packages Containing Toothpicks. 25,798; Apr. 3.
Hardwood Products Co., The, Mayville, Mich. Trophy Tooth Picks. For Packages Containing Toothpicks. 25,799; Apr. 3.
Kenney, M. C., Dubois, Pa. Lens-Lite. For a Bottle of Liquid for Cleaning Glasses. 25,800; Apr. 3.
Minto Tooth Pick & Specialty Co., Mayville, Mich. Silver-Birch. For Packages Containing Toothpicks. 25,801; Apr. 3.
National Carbon Company, Inc., New York N. Y. Eveready Radio 'A' Battery. For Electric Batteries. 25,802; Apr. 3.
Saigo Varnish Works. (See Gordon, Mac.)
Tidwell, Carl E., doing business as The Tidwell Company, Atlanta, Ga. Nu-Type. For a Preparation Used for Cleaning Metal Type and Stamps. 25,803; Apr. 3.
Tidwell Company, The. (See Tidwell, Carl E.)

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Eline's Incorporated, Milwaukee, Wis. Spark the Human Engine with Eline Chocolate Bars. For Chocolate. 6,630; Apr. 3.
Fougera, E., & Co., New York, N. Y. Snow Fluff. For Toilet Powder. 6,631; Apr. 3.
Franklin Knitting Mills, Inc., New York, N. Y. Look Best—Longest. For Knitted Neckties and Scarfs. 6,632; Apr. 3.
Kirk, James S., & Company, Chicago, Ill. Dare You Wear a Diamond Ring? For Soap. 6,633; Apr. 3.
Kirk, James S., & Company, Chicago, Ill. Could You Wear a String of Pearls? For Soap. 6,634; Apr. 3.
Kirk, James S., & Company, Chicago, Ill. Kirk's Cocoa Hardwater Castile. For Soap. 6,635; Apr. 3.
Southern Farm Products Co., Atlanta, Ga. Slasum. For Insecticide to Kill Boll Weevil. 6,636. Apr. 3.
Ward Baking Company, New York, N. Y. My Life's Best Work. For Bread. 6,637; Apr. 3.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., New York, N. Y. Lotions for external application to the body. 172,613; Apr. 3.
Advance Candy M'f'g. Corp., New York, N. Y. Chocolate candy. 164,356; Apr. 3.
Advance Manufacturing Co., St. Louis, Mo. Two-wheeled children's coaster vehicles. 174,684; Apr. 3.
Albers Bros. Milling Co., Seattle, Wash. Breakfast cereal food. 169,270; Apr. 3.
Allen, Gravel Company, Memphis, Tenn. Paving gravel. 159,676; Apr. 3.
Alsa Laboratory. (See Shely, Elizabeth.)
American Bottle Cap Co., Seattle, Wash. Bottle caps. 151,777; Apr. 3.
American Chemical Paint Company, Philadelphia, Pa. Preparation of acid reaction for preventing rust. 156,955; Apr. 3.
American Crayon Company, The, Sandusky, Ohio. Crayons, chalks, and pencils. 171,440; Apr. 3.
American Milling Company, Peoria, Ill. Dairy feed. 163,848; Apr. 3.
American Oil Company, The, Baltimore, Md. Crank-case flushing oil. 171,719; Apr. 3.
American Platinum Works, Newark, N. J. Certain gold, platinum, palladium, and silver metals and solder and rolled sheets and plates. 173,392; Apr. 3.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Nails. 168,594; Apr. 3.
Anaconda Copper Mining Company, New York, N. Y. Cast, drawn, rolled, extruded, pressed, and machined nonferrous metals and alloys and ingots, castings, sheets, etc. 164,291; Apr. 3.
Ansco Company, Binghamton, N. Y. Combined camera and film kits. 169,795; Apr. 3.
Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Rubber heels. 159,828; Apr. 3.
Asbestos and Allied Products Co., New York, N. Y. Asbestos brake lining and clutch-disk facing. 174,813; Apr. 3.
Auld, Ima, Dinuba, Calif. Face lotions. 173,393; Apr. 3.
Ault & Wiborg Co., The, Cincinnati, Ohio. Dry color for use in rubber manufacturing. 167,285; Apr. 3.
Badger Rubber Works, The, Milwaukee, and Cudahy, Wis. Nonmetallic tires. 170,267; Apr. 3.
Bachtold, Herman, doing business as Rochelle Lace Works, New York, N. Y. Imported woven fabrics. 174,032; Apr. 3.
Baker Paint & Varnish Co., Jersey City, N. J. Paint enamels. 174,604; Apr. 3.
Baker Paint & Varnish Co., Jersey City, N. J. Paints, varnishes, putties, dry colors, white lead, etc. 174,605; Apr. 3.
Baltimore Optical Company, Baltimore, Md. Lenses and frames for eyeglasses and spectacles. 172,929; Apr. 3.
Barnard Manufacturing Company, Superior, Nebr. Toothache medicine. 173,294; Apr. 3.
Barrett Company, The, New York, N. Y. Ready-mixed paint and paint thinner. 173,269; Apr. 3.
Barrett Company, The, New York, N. Y. Insulating paper. 173,345; Apr. 3.
Barriemore Shop, The. (See Lederer & Lats.)
Barry, T. D., Company, Brockton, Mass. Shoes made wholly or in part of leather. 173,460; Apr. 3.
Bartholomew Battery & Supply Co., doing business as Bartholomew Battery Co., St. Louis, Mo. Secondary electrical batteries. 157,020; Apr. 3.
Beck, Wm. & Chas., Inc., Lawrence, Mass. Cotton fire hose. 175,124; Apr. 3.
Behrendt, Jacob W., San Francisco, Calif. Solution for the treatment of inflamed, tender, or bleeding gums, pyorrhea, etc. 173,554; Apr. 3.
Benton Holladay & Co., New York, N. Y. Oil leather dye. 172,195; Apr. 3.
Berea Milling Co., The, Berea, Ohio. Milling products. 145,933; Apr. 3.
Berstel Mfg. Company, Chicago, Ill. Locking door handles. 171,060; Apr. 3.
Besaw, Willie O., Beedley, Calif. Fuse plugs. 167,929; Apr. 3.
Biehl, George M., doing business as Liberty Storage Battery Company, Pottsville, Pa. Storage batteries. 167,347; Apr. 3.
Biggar, W. M., & Co., New York, N. Y. Worsted piece goods. 174,165; Apr. 3.
Bleez, J. H., Philadelphia, Pa. Hosiery. 155,505; Apr. 3.
Blair, J. C., Company, Huntingdon, Pa. Paper, envelopes, tablets, blank books, papeteries. 175,706; Apr. 3.
Blakely, Harry C., New Britain, Conn. Potato chips. 168,913; Apr. 3.
Blazeout Company, The. (See Marstin, Clayton R.)
Blumenfield, Samuel M., New York, N. Y. Boys' and men's caps. 173,953; Apr. 3.
Britton, Albert, Myrtle Point, Oreg. Cream cheese. 168,097; Apr. 3.
Brooks, Max L., Brooklyn, N. Y. Games and game apparatus. 170,967; Apr. 3.
Brum Mfg. Co., Philadelphia, Pa. Laundry wax. 168,201; Apr. 3.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Brunner, Lamar F., doing business as Utility Fittings Company, Philadelphia, Pa. Electric conduit fittings. 156,344; Apr. 3.
Bryant, Frank H., doing business as Poe Chemical Company, Troy, N. Y. Preparation for internal and external use for the alleviation of pain, etc. 170,423; Apr. 3.
Burhop, Fred D., doing business as Melt-O Packing Company, Yonkers, N. Y. Aging and softening chemical powder for liquors. 171,196; Apr. 3.
Burton, J. H., & Sons Co. Inc., New York, N. Y. Lumber. 173,400; Apr. 3.
Butler, James, Grocery Company, New York, N. Y. Birds' food. 163,430; Apr. 3.
Calhoun, Robbins & Co., New York, N. Y. Face cloths, dishcloths, floorcloths, washrags, scarfs, shams, etc. 172,200; Apr. 3.
California Alfalfa Products Company, Pasadena, Calif. Medicine in tablet form. 158,221; Apr. 3.
California Paint Company, Oakland, Calif. Lubricating oils and greases. 165,483; Apr. 3.
Capdau, Hippolyte E., New Orleans, La. Salve for the treatment of catarrh, sore throat, croup, etc. 169,888; Apr. 3.
Capitol Hat Frame Works, Des Moines, Iowa. Hat frames. 170,807; Apr. 3.
Capitola Tonic Co., New York, N. Y. Fountain combs capable of containing a liquid for passage through the hair. 173,463; Apr. 3.
Carbide & Carbon Chemicals Corporation, New York, N. Y. Lubricants particularly intended for use in refrigerating machines. 175,710; Apr. 3.
Certified Foods, Inc., Westfield, Mass. Food preparation consisting of a vegetable seasoning. 163,918; Apr. 3.
Chaplin Classics Inc., New York, N. Y. Motion pictures. 173,072; Apr. 3.
Chertoff, N., Inc., doing business as U. S. Sewing Thread Co. Thread and yarn. 159,140; Apr. 3.
Claresa Chemical Works. (See Smith, J. Elmer.)
Code, George, Boston, Mass. Tonic to assist the digestion of food in the stomach. 172,663; Apr. 3.
Colby Steel and Engineering Co., Seattle, Wash. Industrial trucks and trailers. 142,775; Apr. 3.
Coleman and Company, Limited, Norwich, England. Liquor or liquid preparation containing malt. 140,917; Apr. 3.
Collegian, The, Minneapolis, Minn. Necktics, cravats, scarfs, hats, caps. 148,973; Apr. 3.
Collins Company, The, Collinsville, Conn. Pickaxes, crowbars, wrenches, tercados, mattocks, etc. 174,559; Apr. 3.
Corby Baking Company, The, Washington, D. C. Bread. 94,532; Apr. 3.
Crawford Farms, Incorporated, Millbrook, N. Y. Cheese. 168,025; Apr. 3.
Daugherty & Jackson, Seymour, Tex. Pyorrhea remedy. 172,666; Apr. 3.
Deutsche Elektrizitäts-Werke zu Aachen-Garbe, Lahmeyer & Co.- Aktiengesellschaft, Aachen, Germany. Dynamos, electromotors and parts thereof, electrical apparatus. 162,985; Apr. 3.
Devoto y Cauchaner, Buenos Aires, Argentina. Soaps, pastes, powders, and liquids for cleaning metal, wood, leather, and clothing. 171,729; Apr. 3.
Dinhofer Bros. Inc., New York, N. Y. Bar pins, belt buckles, bracelets, brooches, neck chains, etc. 173,918; Apr. 3.
Dinhofer Bros. Inc., New York, N. Y. Platinum in bars, sheets, rolls, etc., and platinum solder. 173,919; Apr. 3.
Disc Alley Manufacturing Company, Atlanta, Ga. Parlor board game. 165,010; Apr. 3.
Disney Hats, New York, N. Y. Hats and caps. 171,209; Apr. 3.
Doehler Die-Casting Co., Brooklyn, N. Y. Die-casting metal and die castings. 174,562; Apr. 3.
Donahue, Henry M., doing business as Hoyt Apothecaries Co., San Francisco, Calif. Mouth wash. 171,908; Apr. 3.
Dorfman & Miller, New York, N. Y. Coats for children, juniors, misses, and ladies. 169,396; Apr. 3.
Doscat Tire & Rubber Corporation, Rochester, N. Y. Rubber tires. 172,260; Apr. 3.
Duncan Chemical Company, Albany, Ala. Medicines and insecticides. 168,518; Apr. 3.
Dupian Silk Corporation, New York, N. Y. Silk piece goods. 175,473; Apr. 3.
Dyer, B. H., Company, Philadelphia, Pa. Hot bottles for medical purposes. 169,053; Apr. 3.
Eagle Picher Lead Company, The, Cincinnati, Ohio. Pure white lead. 170,757; Apr. 3.
Eberle, Francis X., Los Angeles, Calif. Containers made of wood or metal for merchandise. 172,036; Apr. 3.
Edwards, A. M., Incorporated, Atlanta, Ga. Hair tonics and scalp preparation. 170,011; Apr. 3.
Eisele & Co., Nashville, Tenn. Clinical thermometers, hypodermic and urethral syringes, eye droppers, etc. 173,959; Apr. 3.
Electrad Corporation of America, New York, N. Y. Vacuum tubes. 173,960; Apr. 3.
Empire Food Products Company, New York, N. Y. Powdered milk and a powder for making a beverage similar to cocoa. 151,358; Apr. 3.
Englert Manufacturing Co., Pittsburgh, Pa. Electric batteries. 152,609; Apr. 3.
Enterprise Paint Mfg. Co., Chicago, Ill. Ready-mixed and paste paints, varnishes, and paint enamels. 174,001–2; Apr. 3.
Estall Company. (See Finlayson, Estelle B.)
European Radio Company. (See Goll, Robert E.)
Eustathopoulo, Nap., & Fils, New York, N. Y. Cotton goods in the piece. 165,990; Apr. 3.
Fabriques des Montres Zénith, Le Locle, Switzerland. Magnetos and electric motors. 171,014; Apr. 3.
Fair, The, Chicago, Ill. Laundry washing machines. 174,614; Apr. 3.
Falstaff Corporation, St. Louis, Mo. Malt extract. 161,831; Apr. 3.
Fellner, Louis B., Belleville, Ill. Bread. 160,579; Apr. 3.
Fernandez, Cirilo, Milwaukee, Wis. Cigars, cheroots, and cigarettes. 174,432; Apr. 3.
Fiebrich-Fox-Hilker Shoe Company, Racine, Wis. Shoes made wholly or in part of leather. 173,480–1; Apr. 3.
Finlayson, Estelle B., doing business as Estall Company, New York, N. Y. Antiseptic lotion for the treatment of the scalp and skin. 172,830; Apr. 3.
Finstick, Lawrence A., doing business as Hi-Way Laboratories, Laporte, Ind. Self-vulcanizing tire patch. 169,582; Apr. 3.
Fisher Body Corporation, Detroit, Mich. Automobile bodies. 168,464; Apr. 3.
Fleckenstein, C. G., Co., Muskegon, Mich. Sole leather. 167,386; Apr. 3.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 175,482; Apr. 3.
Four Way Company. (See Munger, Louis de F.)
Freezerator Co., The, Detroit, Mich. Artificial refrigerating apparatus for household use. 163,512; Apr. 3.
Friedberger, Moritz, Charlottenburg, near Berlin, Germany. Heterocyclic compounds. 168,258; Apr. 3.
G. C. A. Manufacturing Company, The, Pittsfield, Mass. Apparatus for installing and removing electric-light bulbs, lamp sockets, etc. 174,570; Apr. 3.
Geltman, Israel, New York, N. Y. Cheese, mustard, farina, tea, coffee, chocolate, condensed milk, rice, etc. 169,751; Apr. 3.
Gillette Rubber Company, Eau Claire, Wis. Raincoats. 165,950; Apr. 3.
Gintone Laboratories. (See Schneider, Emil D.)
Glass, Henry, & Co., New York, N. Y. Ginghams in the piece. 173,820; Apr. 3.
Globe Rubber Tire Manufacturing Co., Trenton, N. J. Nonmetallic pneumatic tires and inner tubes. 175,589; Apr. 3.
Globe Shoe Company, Chelsea, Mass. Women's boots and shoes. 169,900; Apr. 3.
Globe Wire Co., Sharpsburg, Pa. Steel rods. 174,772; Apr. 3.
Goldman, Louis M., doing business as Louis M. Goldman & Co., Chicago, Ill. Coffees, teas, and spices. 153,600; Apr. 3.
Goll, Robert E., doing business as European Radio Company, New York, N. Y. Radio equipment. 174,388; Apr. 3.
Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings made of rubber combined with fabric. 172,472; Apr. 3.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Textile fabrics consisting of cotton piece goods. 174,898; Apr. 3.
Grant, C. W., Co. (See Grant, Charles W.)
Grant, Charles W., doing business as C. W. Grant Co., Seattle, Wash. Paint and varnish remover. 175,487; Apr. 3.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. 172,986; Apr. 3.
Great Falls Manufacturing Company, Somersworth, N. H. Cotton piece goods. 157,367; Apr. 3.
Greene, William C., Company, Providence, R. I. Pins, buckles, clasps, buttons, watch chains, neck chains, etc. 172,331; Apr. 3.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 170,377; Apr. 3.
Gross, L. N., Company, The, Cleveland, Ohio. Women's bloomers. 169,240; Apr. 3.
Gruenhagen's San Francisco, Calif. Chocolate fruit bar. 168,766; Apr. 3.
Guerra, M. G., Co. Inc., New York, N. Y. Table and bed linen, handkerchiefs, towels, curtains, etc. 175,786; Apr. 3.
Hager, Clark & Co., New York, N. Y. Woolen piece goods. 174,007; Apr. 3.
Hanover-Hall Company, New York, N. Y. Men's felt, straw, cloth, and silk hats and caps. 174,389; Apr. 3.
Hanson Milling Company, Ashland, Wis. Wheat flour. 161,881; Apr. 3.
Harlem Card & Paper Company, Inc., New York, N. Y. Writing paper and card board. 173,566; Apr. 3.
Harris Suspender Company, New York, N. Y. Apparel belts. 172,944; Apr. 3.

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Hatfield, Asa A., doing business as Med-A-Dent Dental Specialties Company, Danville, Ky. Tooth paste and cleanser and a preparation for the treatment of pyorrhea. 167,676; Apr. 3.
Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii and San Francisco, Calif. Canned pineapple. 168,109; Apr. 3.
Henning Wennersten Incorporated, Chicago, Ill. Malt extracts. 173,422; Apr. 3.
Hensbel Co. Inc., The, New York, N. Y. Artificial pearls. 173,597; Apr. 3.
Hevener, James K., doing business as Jameson-Havener Company, St. Paul, Minn. Wheat flour. 157,152; Apr. 3.
Hi-Way Laboratories. (See Finstick, Lawrence A.)
Hicks, Mme. Bertha M., Manufacturing Co., Indianapolis, Ind. Hair growers, tetter salve, face cream, etc. 171,365; Apr. 3.
Hicks, W. Wesley, San Francisco, Calif. Electric water heaters, electric air heaters, radiant floor and wall heaters, etc. 174,962; Apr. 3.
Hinckley Manufacturing Co., Providence, R. I. Buttons, shoe ornaments, badges, and emblems. 165,552; Apr. 3.
Hinkson, Andrew H., doing business as Shults Ointment Company, Chester, Pa. Ointments used for swellings, sores, bruises, burns, etc., and liniments. 172,593; Apr. 3.
Hipp. Didisheim Company, Inc., New York, N. Y. Watches, watch movements, and parts of the same. 174,618; Apr. 3.
Hipp. Didisheim Company, Inc., New York, N. Y. Watches, watch movements, and parts of the same. 174,620; Apr. 3.
Hipp. Didisheim Company, Inc., New York, N. Y. Watches, watch movements and parts of the same. 174,622–4; Apr. 3.
Holbrook, Merrell & Stetson, San Francisco and Los Angeles, Calif. Cooking and heating stoves. 162,409; Apr. 3.
Holzman, Samuel, doing business as Tsout Remedy Co., New York, N. Y. Remedy for corns, calluses, and warts. 170,818; Apr. 3.
Hood, H. P., & Sons, Inc., Boston, Mass. Butter, dried beans, bread, buttermilk, etc. 146,216; Apr. 3.
Hooven & Allison Company, The, Xenia, Ohio. Cordage. 154,515; Apr. 3.
Hornsby, Pauline K., Chicago, Ill. Deodorants. 157,923; Apr. 3.
Horstmann, Wm. H., Company, Philadelphia, Pa. Yarn. 172,475; Apr. 3.
Hoyt Apothecaries Co. (See Donahue, Henry M.)
Hudnall, Frank P., Manchester, Ohio. Toilet packages for containing tooth brush, paste, and powder. 172,045; Apr. 3.
Hunger and Hunger, Sacramento, Calif. Clothes hangers. 156,688; Apr. 3.
Ideal Roller & Manufacturing Co. Inc., Chicago, Ill. Rollers for printing presses, lithographic presses, etc. 172,678; Apr. 3.
Independent Paper Mills, Inc., Brooklyn, N. Y. Dispensing devices for paper towels, napkins, etc. 176,186; Apr. 3.
Independent Paper Mills, Inc., Brooklyn, N. Y. Paper towels and napkins. 174,141; Apr. 3.
Indianapolis Tent & Awning Company, Indianapolis, Ind. Awnings and tarpaulins. 172,538; Apr. 3.
Jameson-Havener Company. (See Hevener, James K.)
Jay Burns Baking Company, The, Omaha, Nebr. Loaves of wheat bread. 162,980; Apr. 3.
Jeannette Glass Company, Jeannette, Pa. Glass plates, bowls, napkins, jars, jugs, pitchers, etc. 172,277; Apr. 3.
Jennings, O. D., and Company, Chicago, Ill. Coin-controlled vending machines. 168,719; Apr. 3.
Joannes, Bros. Co., Green Bay, Wis. Jar rubbers. 172,880; Apr. 3.
Johns-Manville, Incorporated, New York, N. Y. Brake lining. 172,046; Apr. 3.
Johnston, Robert A., Co., doing business as Johnston's, Milwaukee, Wis. Candies. 169,715; Apr. 3.
Johnston's. (See Johnston, Robert A., Co.)
Jordan Marsh Company, Boston, Mass. Men's hats, caps, shirts, underwear, etc. 169,490; Apr. 3.
Juan Bautista Blancafort S. en C., La Garriga, Barcelona, Spain. Perforated music rolls for automatic pianos. 141,348; Apr. 3.
Kales Stamping Company, Detroit, Mich. Mirrors for motor vehicles. 172,397; Apr. 3.
Kann, Lewis L., doing business as Kann Manufacturing Co., New York, N. Y. Shoes made of leather and fabric and a combination of said materials. 173,426; Apr. 3.
Kann Manufacturing Co. (See Kann, Lewis L.)
Karlsruher Parfumerie & Toiletteseifen-Fabrik F. Wolff & Sohn, G. m. b. H., Karlsruhe, Germany, Perfume, toilet water, hair tonic, etc. 152,758; Apr. 3.
Kayack, Frederick L., New York, N. Y. Salad dressing. 170,435; Apr. 3.
Keith, Geo. E., Company, Brockton, Mass. Leather boots and shoes. 152,760; Apr. 3.
Kimberly-Clark Company, Neenah, Wis. Book papers. 175,662; Apr. 3.
Kimberly-Clark Company, Neenah, Wis. Book papers. 175,663–4; Apr. 3.
King Coal Company, San Francisco, Calif. Coal. 167,966; Apr. 3.
King, Wm. C., Scott City, Kans. Medicine for treatment of tuberculosis, chronic coughs, colds, etc. 172,477; Apr. 3.
Kirk, Samuel & Sons, Limited, Bradford, England. Piece goods composed of an admixture of wool and cotton. 132,052; Apr. 3.
Kondo Novelty Co., The, Mount Vernon, N. Y. Hosiery supporters. 170,201; Apr. 3.
Krank, Alfred J., St. Paul, Minn. Hair dressing and dandruff remedy. 173,427–8; Apr. 3.
La Crosse Rubber Mills Co., doing business as Wisconsin Rubber Mills Co., La Crosse, Wis. Rubber boots and shoes. 170,489; Apr. 3.
Lam, Gilnes & Co., Inc., New York, N. Y. Tea. 167,137; Apr. 3.
Lamb, Thomas B., New York, N. Y. Handkerchiefs. 159,096; Apr. 3.
Larrowe Milling Company, Detroit, Mich. Dairy and cattle feed. 159,587–9; Apr. 3.
Lasco Company. (See Stabler, Louis A.)
Lawrence, William, & Co., Limited, Colwick, England. Furniture and upholstery. 134,969; Apr. 3.
Lederer & Latz, doing business as The Barriemore Shop, New York, N. Y. Shoes made of leather. 170,655; Apr. 3.
Leech, Arthur L., Co., The, Kennebunk, Me. Flavorings and extracts. 160,880; Apr. 3.
Leggett, Francis H., & Company, New York, N. Y. Flavoring preparation for food products. 169,859; Apr. 3.
Liberty Storage Battery Company. (See Biehl, George M.)
Lips Specialty Candy Co. (See Lipschultz, Louis L.)
Lipschultz, Louis L., doing business as Lips Specialty Candy Co., Chicago, Ill. Candy. 169,311; Apr. 3.
Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. 176,028; Apr. 3.
Lousols Philadelphia, Philadelphia, Pa. Ladies', women's, and misses' gowns, wraps, dresses, coats, etc. 168,901; Apr. 3.
Lowry, Donald J., Pasadena, Calif. Lubricating oil and grease. 171,584. Apr. 3.
Manassas Feed & Milling Co. (See Robertson, Bolling L.)
Manhasset Manufacturing Company, Providence, R. I. Cotton tire fabrics in the piece. 170,439–40; Apr. 3.
Marschat Import Co., Inc., New York, N. Y. Cologne waters, bath salts, face clays, etc. 167,530; Apr. 3.
Marstin, Clayton R., doing business as The Blazeout Company, Boston, Mass. Fire-extinguishing powders. 168,272; Apr. 3.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. 168,978; Apr. 3.
Maxson Automatic Machinery Company, The, Westerly, R. I. Machines for cutting, piling, etc., paper and other sheet material. 155,973; Apr. 3.
Maynard Coal Company, The, Columbus, Ohio. Bituminous Coal. 158,191; Apr. 3.
Med-A-Dent Dental Specialties Company. (See Hatfield, Asa A.)
Melt-O Packing Company. (See Burhop, Fred D.)
Metz, H. A., Laboratories, Inc., New York, N. Y. Astringents and mild antiseptics. 173,434; Apr. 3.
Metzger, W. H., Company. (See Metzger, W. H.)
Metzger, W. H., doing business as W. H. Metzger Company, Bloomington, Ill. Exterminator for insects on plant life, trees, etc. 164,180; Apr. 3.
Miami Manufacturing Co., Miami, Fla. Casement-window adjusters. 173,520; Apr. 3.
Michel, August, Elberta, Ala. Healing salve for sore and callused feet. 173,521; Apr. 3.
Miltenberg, E., Inc., New York, N. Y. Paprika and spices. 169,407; Apr. 3.
Montague, W. R., Company, The, La Crosse, Wis. Cracker products, crackers, cakes, and Dutch-style cookies. 170,076; Apr. 3.
Morgan, Neil E., Ogdensburg, N. Y. House-fly killer, a liquid roach killer, liquid mosquito killer and repellant, etc. 172,388; Apr. 3.
Moser & Co. Inc., New York, N. Y. Bating material used in tanning leather. 173,101; Apr. 3.
Munger, Louis de F., doing business as Four Way Company, Springfield, Mass. Telephone plugs. 173,576; Apr. 3.
Munsingwear Corporation, The, Minneapolis, Minn. Underwear, knit or woven, and hosiery. 175,508; Apr. 3.
Munson, Elizabeth M., doing business at Madame Marie, San Francisco, Calif. Almond massage cream, shaving and beauty lotions, etc. 168,057; Apr. 3.
Muralo Company, The, New York and New Brighton, N. Y. Wall size in dry powder form. 173,201; Apr. 3.
Myers, Thomas A., doing business as Ye Olde Tyme Hard and Soft Pretzel Shop. Pretzels. 165,502; Apr. 3.
Nathan & Cohen Co., Inc., New York, N. Y. Cotton goods in the piece. 175,509; Apr. 3.

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Naumann, Frederick M., doing business as F. M. Neumann Company, Cleveland, Ohio. Antiseptic for the prevention of venereal diseases. 156,105; Apr. 3.
Never Enough Pie Company, The, Bridgeport, Conn. Articles of food. 169,769; Apr. 3.
New England Confectionery Company, Boston, Mass. Candy. 154,812; Apr. 3.
New England Confectionery Company, Boston, Mass. Candy. 154,815; Apr. 3.
New York Belting and Packing Company, New York, N. Y. Belting made of rubber and fabric. 175,320; Apr. 3.
New York Belting and Packing Company, New York, N. Y. Belting made of rubber and fabric. 175,322; Apr. 3.
Nickels Manufacturing Company, Bristol, Va. Ladies', misses', and children's dresses. 169,179; Apr. 3.
Nolen Apiaries, The. (See Nolen, Lawrence R.)
Nolen, Lawrence R., doing business as The Nolen Apiaries, Kerens, Tex. Honey. 169,072; Apr. 3.
North American Fur Dyeing Company, Newark, N. J. Fur skins. 171,883; Apr. 3.
Nypros Steel Company, Philadelphia, Pa. Liquid used in heat-treating steel. 170,400; Apr. 3.
Old Homestead Bread Company, The, Denver, Colo. Bread. 159,978; Apr. 3.
Oldach, William H., Inc., Philadelphia, Pa. Fancy patent hard-wheat flour. 163,232; Apr. 3.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. 175,677; Apr. 3.
Panhard Oil Corporation, Carlstadt, N. J., and New York, N. Y. Lubricating oils and greases. 172,552; Apr. 3.
Parkview Pharmacy. (See Smolinsky, Phillip.)
Paul, Israel, doing business as Russpharmaco Products Co., Philadelphia, Pa. Medicine for the treatment of the blood and stomach. 167,533; Apr. 3.
Peoples Drug Stores, Inc., Washington, D. C. Cigars. 157,690; Apr. 3.
Peppers, Thomas H., Los Angeles, Calif. Fresh cantaloupes. 162,949; Apr. 3.
Philipps Aktien-Gesellschaft, Frankfort-on-the-Main, Germany. Electrical lamps, electromotors, dynamos, etc. 150,286; Apr. 3.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Varnish. 175,517; Apr. 3.
Poe Chemical Company. (See Bryant, Frank H.)
Potter-McCune Company, McKeesport, Pa. Coffee, canned fruits, vegetables, and fish, table molasses. 167,687; Apr. 3.
Quisenberry Feed Mf'g. Co., Kansas City, Mo. Poultry feed. 164,265; Apr. 3.
Quisenberry Feed Mf'g. Co., Kansas City, Mo. Poultry feed. 164,773–4; Apr. 3.
R. C. Importation Corporation, New York, N. Y. Cigars, cigarettes, and smoking tobacco. 173,857; Apr. 3.
Radiola Wireless Corporation, The, New York, N. Y. Radio crystals. 168,786; Apr. 3.
Raffetto, G. B., Inc., New York, N. Y. Sweet-pickled watermelon rind. 169,561; Apr. 3.
Randolph Milling Company, Baldwin, Ill. Wheat flour. 168,170; Apr. 3.
Redland Citrus Growers Association, Homestead, Fla. Fresh citrus fruits. 168,068; Apr. 3.
Republic Photographic Corporation, Ferguson, Mo. Sensitized photographic paper. 174,336; Apr. 3.
Robertson, Bolling L., doing business as Manassas Feed & Milling Co., Manassas, Va. Wheat flour. 169,323; Apr. 3.
Rochelle Lace Works. (See Baechtold, Herman.)
Rogers & Hubbard Company, The, Portland, Conn. Fertilizers. 166,718; Apr. 3.
Rogers Bracket Company. (See Rogers, Joel H.)
Rogers, Joel H., doing business as Rogers Bracket Company, Jacksonville, Fla. Curtain brackets. 170,729; Apr. 3.
Rubin Bros. Foot-Wear, New York, N. Y. Leather, cloth, and fabric shoes and slippers and cloth spats. 169,826; Apr. 3.
Russpharmaco Products Co. (See Paul, Israel.)
Salem Manufacturing Company, doing business as Texoleum Company, Salem, N. J., and New York, N. Y. Floor coverings. 174,153; Apr. 3.
Schneider, Emil D., doing business as Gintone Laboratories, Memphis, Tenn. Tonic for use upon the scalp or skin. 171,140; Apr. 3.
Schrafft, W. F., & Sons Corporation, Boston, Mass. Candies. 159,327; Apr. 3.
Schwed, Bertie S., Far Rockaway, N. Y. Sewing case. 173,010; Apr. 3.
Scripture, Arthur P., New York, N. Y. Steel bars and billets. 175,328; Apr. 3.
Shapiro, Louis, and Co. (See Shapiro, Louis.)
Shapiro, Louis, doing business as Louis Shapiro and Co., Mount Vernon, N. Y. Men's ready-made suits and overcoats. 163,117; Apr. 3.
Sharp & Dohme, Baltimore, Md. Suppurative medicinal powder. 171,596; Apr. 3.
Shely, Elizabeth, doing business as Alsa Laboratory, Los Angeles, Calif. Toilet preparations. 162,696; Apr. 3.
Sherwood Petroleum Company Inc., Brooklyn, N. Y. White mineral oil for medicinal purposes. 173,368–9; Apr. 3.
Shults Ointment Company. (See Hinkson, Andrew H.)
Siegbert, Louis, & Bro., New York, N. Y. Cotton piece goods. 174,037; Apr. 3.
Simson & Frey, Inc., New York, N. Y. Strings for violins and similar musical instruments. 172,561; Apr. 3.
Sischo, Kittie F., Santa Monica, Calif. Dolls. 168,651; Apr. 3.
Smith, J. Elmer, doing business as Claresa Chemical Works, Irwin, Pa. Furniture polish. 175,529; Apr. 3.
Smolinsky, Phillip, doing business as Parkview Pharmacy, Kansas City, Mo. Ice cream. 166,725; Apr. 3.
Snappy Sales Co., St. Louis, Mo. Supports for telephone cords, electric-iron cords, etc. 173,539; Apr. 3.
Stabler, Louis A., doing business as The Lasco Company, Ltd., Baltimore, Md. Oil paint, linseed oil, floor wax, etc. 154,287; Apr. 3.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gasoline. 172,691; Apr. 3.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 175,959–60; Apr. 3.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 175,965; Apr. 3.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 175,968; Apr. 3.
Standard Paper Manufacturing Co., Richmond, Va. Blotters. 161,283; Apr. 3.
Stebbins, E., Manufacturing Company, Springfield, Mass. Quick-compression bibs. 174,271; Apr. 3.
Straubel, C. A., Co., Green Bay, Wis. Cheese. 157,857; Apr. 3.
Sun Drug Co., The, Los Angeles, Calif. Olive oil, caraway and celery seeds, cocoa butter, etc. 139,632; Apr. 3.
Supreme Orient O. O. H. & P., Schenectady, N. Y. Letterheads, envelopes, report blanks, etc. 145,597; Apr. 3.
Tee Pee Rubber Company, Inc., New York, N. Y. Rubber heels. 169,372; Apr. 3.
Texoleum Company. (See Salem Manufacturing Company.)
Timson, Frederick H., Boston, Mass. Gaiters of leather, fabric, and combination. 169,731; Apr. 3.
Tin Decorating Company of Baltimore, The, Baltimore, Md. Receptacle for gloves, handkerchiefs, lingerie, and sewing materials. 160,165; Apr. 3.
Tingue, Brown & Co., New York, N. Y. Laundry bags. 174,758; Apr. 3.
Trico Products Corporation, Buffalo, N. Y. Mirrors for vehicles, windshield wings, shock absorbers, etc. 170,910; Apr. 3.
Tristate Baking Co., Flint, Mich. Edible rolls. 169,103; Apr. 3.
Tsout Remedy Co. (See Holzman, Samuel.)
Tubular Woven Fabric Company, Pawtucket, R. I. Protective covering for electrical wires. 170,913; Apr. 3.
U. S. Sewing Thread Co. (See Chertoff, N., Inc.)
Utility Fittings Company. (See Brunner, Lamar F.)
Victor-American Fuel Company, The, Portland, Me., and Denver, Colo. Coal. 164,472; Apr. 3.
Victor-American Fuel Company, The, Portland, Me., and Denver, Colo. Coal. 164,476; Apr. 3.
Viller & Prost, Paris, France. Furniture and automobile polish. 159,449; Apr. 3.
Vitro Manufacturing Company, The, Pittsburgh, Pa. Ready-prepared ceramic glasses and enamels. 168,625; Apr. 3.
Vorhees Rubber Mfg. Co., Jersey City, N. J. Hose, belting, and packing made of rubber, etc. 171,003; Apr. 3.
W. V-B. Ames Company, The, Freemont, Ohio. Dental cement. 175,696; Apr. 3.
Ward Baking Company, New York, N. Y. Bread. 168,699; Apr. 3.
Ward Baking Company, New York, N. Y. Bread. 169,386; Apr. 3.
Watson & Aven, Little Rock, Ark. Ice cream. 169,343; Apr. 3.
Webster, Harry W., doing business as Decorators Wall Paper Co., Toledo, Ohio. Paints, putty, linseed oil, and turpentine, etc. 160,908; Apr. 3.
Weidner, Paul R., Woburn, Mass. Canned fruits and vegetables, dried fruits, fruit preserves, etc. 168,343; Apr. 3.
Weitz & Lefft, New York, N. Y. Noodles. 161,949; Apr. 3.
Weldit Company, Washington, D. C. Preheating torches. 166,965; Apr. 3.
Western Cartridge Company, East Alton and Springfield, Ill. Shot shells. 164,285; Apr. 3.
Weyer, George H., St. Joseph, Mo. Chemical preparation suitable for the treatment of hair. 173,311; Apr. 3.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, and envelopes. 175,749; Apr. 3.
Whitman, Stephen F., & Son, Philadelphia, Pa. Candy. 171,052; Apr. 3.
Wile, Julius, Sons & Co., New York, N. Y. Oilcloth. 175,829; Apr. 3.
Williams, Frank C., Inc., doing business as Frank C. Williams, Easton, Pa. Wheat flour. 167,277; Apr. 3.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. Hosiery. 163,722; Apr. 3.
Winter Machine Company, Pawtucket, R. I. Refrigerating and ice-making apparatus. 145,864; Apr. 3.
Wisconsin Rubber Mills Co. (See La Crosse Rubber Mills Co.)
Wortendyke Manufacturing Co., Richmond, Va. Toilet paper and paper towels. 171,192; Apr. 3.
Wyman, Partridge & Co., Minneapolis, Minn. Yarn. 156,207; Apr. 3.
Ye Olde Tyme Hard and Soft Pretzel Shop. (See Myers, Thomas A.)

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alimentary paste. Bonadio & Merchiorri Co. 166,476; Apr. 3; Serial No. 166,973; published Jan. 16, 1923.
Alloy, Forgings of steel. A. Finkl & Sons Company. 166,414; Apr. 3; Serial No. 168,523; published Jan. 2, 1923.
Alloys, rolled plates and sheets of such alloys, etc., Noncorroding and nonrusting. Edwin Burborn Co. 166,358; Apr. 3; Serial No. 149,210; published Jan. 2, 1923.
Aluminum household, kitchen, and cooking utensils. Aluminum Company of America. 166,413; Apr. 3; Serial No. 167,115; published Jan. 2, 1923.
Aluminum welding metal. Marshall Metal Corporation. 166,370; Apr. 3; Serial No. 170,032; published Dec. 19, 1922.
Apples, Evaporated. C. C. Hall, Inc. 166,455; Apr. 3; Serial No. 165,999; published Jan. 16, 1923.
Automobile body hardware. Ternstedt Manufacturing Company. 166,436; Apr. 3; Serial No. 163,899; published Oct. 3, 1923.
Automobile planetary transmissions, etc., Lubricant dressing for. Lewis Oil Company. 166,495; Apr. 3; Serial No. 171,852; published Jan. 9, 1923.
Bacon, ham, boiled ham, sugar-cured meats. East Tennessee Packing Company. 166,341; Apr. 3; Serial No. 161,622; published Jan. 9, 1923.
Barrels, boxes, crates, fruit and vegetable containers. Little Rock Barrel & Box Co. 166,383; Apr. 3; Serial No. 169,679; published Dec. 19, 1922.
Batteries, Electric. Cincinnati Storage Battery Company. 166,356; Apr. 3; Serial No. 148,058; published Jan. 16, 1923.
Beef, Cooked corn. Virden Packing Company. 166,342; Apr. 3; Serial No. 161,161; published Jan. 9, 1923.
Boilers, garbage burners, heaters, and tanks. Kewanee Boiler Company. 166,368; Apr. 3; Serial No. 170,070; published Nov. 28, 1922.
Bottles, Milk. A. Westlake. 166,385; Apr. 3; Serial No. 169,513; published Jan. 9, 1923.
Box openers and nail pullers. A. Schrem. 166,415; Apr. 3; Serial No. 168,021; published Dec. 26, 1922.
Brassières. Lucile Somarco Brassiere. 166,378; Apr. 3. Serial No. 169,765; published Jan. 2, 1923.
Brassières, bandeaux, and corsets. H. Shain. 166,389; Apr. 3; Serial No. 169,425; published Dec. 5, 1922.
Candy. Alpine Chocolate Company. 166,359; Apr. 3; Serial No. 152,666; published Jan. 16, 1923.
Candy. Bonita Company. 166,343; Apr. 3; Serial No. 160,856; published Jan. 9, 1923.
Candy. Charter Chocolate Company. 166,352; Apr. 3; Serial No. 141,556; published Jan. 9, 1923.
Candy. Gorham Chocolate Company. 166,505; Apr. 3; Serial No. 163,269; published Jan. 9, 1923.
Candy. Howard H. Hoyt Candy Co. 166,500; Apr. 3; Serial No. 162,738; published Jan. 16, 1923.
Candy. A. B. Mewhinney Co. 166,437; Apr. 3; Serial No. 166,952; published Jan. 16, 1923.
Candy. Pacific Coast Biscuit Company. 166,431; Apr. 3; Serial No. 164,188; published Dec. 19, 1922.
Candy. R. S. Walters. 166,433; Apr. 3; Serial No. 164,140; published Jan. 16, 1923.
Candy in the shape of chickens, rabbits, and eggs, Molded sugar. Consumers Biscuit Company. 166,430; Apr. 3; Serial No. 164,232; published Jan. 9, 1923.
Canned fruits. Producers Canning and Packing Company. 166,429; Apr. 3; Serial No. 164,257; published Jan 9, 1923.
Canned fruits and vegetables. Acme Grocery Co. 166,443; Apr. 3; Serial No. 166,625; published Jan. 16, 1923.
Canned fruits, vegetables, and fish. Dodge, Sweeney & Co. 166,499; Apr. 3; Serial No. 162,724; published Jan. 9, 1923.
Canned peeled tomatoes, roasted peppers, and tomato sauce. P. Pastene & Co. 166,452; Apr. 3; Serial No. 166,095; published Jan. 16, 1923.
Canned sausage. W. B. Fair. 166,511; Apr. 3; Serial No. 163,675; published Jan. 9, 1923.
Canned vegetables. Smith-Yingling Company. 166,419; Apr. 3; Serial No. 163,091; published Jan. 9, 1923.
Canned vegetables. Smith-Yingling Company. 166,425; Apr. 3; Serial No. 164,779; published Jan. 9, 1923.
Canned vegetables, fruits, and fish. R. E. Cotter Company. 166,453; Apr. 3; Serial No. 166,044; published Jan. 16, 1923.
Carton and box filling machinery. Cartoning Machinery Corporation. 166,412; Apr. 3; Serial No. 166,933; published Jan. 2, 1923.
Cement for filling teeth and liquid therefor. L. D. Caulk Company. 166,520; Apr. 3; Serial No. 172,082; published Jan. 9, 1923.
Chest splint. Therapeutic Appliance Corporation. 166,524; Apr. 3; Serial No. 171,970; published Jan. 9, 1923.
Cleaning and polishing preparation for automobiles, furniture, etc. I-Sis Laboratories, Inc. 166,510; Apr. 3; Serial No. 172,163; published Jan. 9, 1923.
Cleanser for woodwork furniture, leather goods, and rugs. H. McMullen. 166,409; Apr. 3; Serial No. 166,697; published Dec. 12, 1922.
Cocoa. Naamlooze Vennootschap Hollandsche Cacao- en Chocoladefabrieken Voorheen Bensdorp & Co. 166,426; Apr. 3; Serial No. 164,767; published Jan. 16, 1923.
Coffee. Alouf Bros. 166,450; Apr. 3; Serial No. 166,217; published Jan. 16, 1923.
Coffee. Fishback Co. 166,456; Apr. 3; Serial No. 165,920; published Jan. 16, 1923.
Coffee. T. T. Reboul. 166,512; Apr. 3; Serial No. 163,698; published Jan. 9, 1923.
Coffee. Watchung Springs Company. 166,441; Apr. 3; Serial No. 166,796; published Jan. 16, 1923.
Compressors and pumps and attachments therefor. Pennsylvania Pump & Compressor Co. 166,438; Apr. 3; Serial No. 166,906; published Jan. 2, 1923.
Cords and plugs used to connect translating devices with lamp sockets, Combined. A. E. Berdon. 166,417; Apr. 3; Serial No. 165,658; published Jan. 9, 1923.
Cords, Cable, macramé, and shade. Johnston & Co. Cable Cord, Inc. 166,418; Apr. 3; Serial No. 165,628; published Jan. 9, 1923.
Dental alloy. L. D. Caulk Company. 166,521; Apr. 3; Serial No. 172,081; published Jan. 9, 1923.
Dental plates in position, Paste for holding. R. O. L. Smith. 166,473; Apr. 3; Serial No. 167,693; published Jan. 9, 1923.
Dyestuffs, certified food colors, and intermediates. National Aniline & Chemical Company. 166,390–7; Apr. 3; Serial No. 169,409–16; published Oct. 24, 1922.
Eardrums. F. M. Way. 166,388; Apr. 3; Serial No. 169,429; published Dec. 19, 1922.
Eggs, Powder for making scrambled. National Egg Products Company. 166,440; Apr. 3; Serial No. 166,897; published Jan. 16, 1922.
Electric motors, Portable. Fitzgerald Manufacturing Company. 166,492; Apr. 3; Serial No. 171,159; published Jan. 9, 1923.
Electrical loud-speaking receivers, horns, etc. Bristol Company. 166,471; Apr. 3; Serial No. 168,098; published Jan. 9, 1923.
Electrodes, Arc-welding metal. International Welding Engineering Corporation. 166,405; Apr. 3; Serial No. 162,011; published July 18, 1922.
Enameled ware consisting of rice boilers, mixing bowls, etc. Shapleigh Hardware Company. 166,408; Apr. 3; Serial No. 166,608; published Jan. 2, 1923.
Engines, Cylinder blocks and heads, gear-case covers for hydrocarbon. Interchangeable Parts Company. 166,516; Apr. 3; Serial No. 163,755; published Nov. 14, 1922.
Engines, Vaporizing devices for. Penberthy Injector Company. 166,353; Apr. 3; Serial No. 146,182; published Jan. 2, 1923.
Fertilizer. American Agricultural Chemical Company. 166,380; Apr. 3; Serial No. 169,739; published Nov. 7, 1922.
Figs, Preserved. Beckwith Co. 166,420; Apr. 3; Serial No. 166,420; Apr. 3; Serial No. 164,861; published Jan. 9, 1923.
Fire extinguishers, Dry-powder tube. H. R. Frey. 166,449; Apr. 3; Serial No. 166,280; published Jan. 2, 1923.
Flavoring extracts, Food-. Acme Flavoring Co. 166,477; Apr. 3; Serial No. 166,969; published Jan. 16, 1923.
Food product. George Kern, Inc. 166,508; Apr. 3; Serial No. 163,450; published Jan. 9, 1923.
Fruits, Fresh citrus. A. H. Kalbfleisch. 166,422; Apr. 3; Serial No. 164,809; published Jan. 9, 1923.
Fruits, Fresh citrus. Sunland Packing House Company. 166,451; Apr. 3; Serial No. 166,106; published Jan. 16, 1923.
Gasoline. Interstate Gasoline Co. 166,424; Apr. 3; Serial No. 164,807; published Jan. 9, 1923.

Grapes, Fresh. K. Okuda. 166,435; Apr. 3; Serial No. 164,067; published Jan. 16, 1923.
Hams. Hickory Hill Farm. 166,346; Apr. 3; Serial No. 158,811; published Jan. 16, 1923.
Hip and bust reducer. B. Cervelli. 166,458; Apr. 3; Serial No. 169,890; published Jan. 9, 1923.
Hosey. G. Harrison, jr. 166,509–10; Apr. 3; Serial No. 163,664–5; published Jan. 9, 1923.
Horse blankets. Glimmerglen Farms, Inc. 166,362; Apr. 3; Serial No. 170,525; published Dec. 19, 1922.
Hosiery. Rockland Hosiery Mills. 166,406; Apr. 3; Serial No. 165,415; published Nov. 7, 1922.
Hosiery, Seamless elastic. Charles Walton & Son. 166,482; Apr. 3; Serial No. 170,554; published Jan. 9, 1923.
Ice cream. A. M. Alexander. 166,445; Apr. 3; Serial No. 166,494; published Jan. 16, 1923.
Ice-cream bar. C. G. Louda. 166,506; Apr. 3; Serial No. 163,277; Apr. 3; Serial No. 163,277; published Jan. 9, 1923.
Ice-cream bar, Chocolate-covered. Cairo Food Products Company. 166,507; Apr. 3; Serial No. 163,328; published Jan. 9, 1923.
Knitted bags. Nitram Manufacturing Company. 166,522–3; Apr. 3; Serial No. 172,007–8; published Jan. 9, 1923.
Knives, Pocket and hunting. New York Knife Company. 166,474; Apr. 3; Serial No. 167,316; published Jan. 2, 1923.
Lamps, Gas and oil. Pierce-Arrow Motor Car Company. 166,517; Apr. 3; Serial No. 159,523; published Mar. 28, 1922.
Lead, White. Anaconda Lead Products Company. 166,434; Apr. 3; Serial No. 164,004; published Jan. 9, 1923.
Lemons, Fresh. Santa Paula Citrus Fruit Association. 166,513; Apr. 3; Serial No. 163,701; published Jan. 9, 1923.
Lemons, Fresh. Santa Paula Citrus Fruit Association. 166,514; Apr. 3; Serial No. 163,704; published Jan. 9, 1923.
Linen small wares. York Street Flax Spinning Co. 166,466; Apr. 3; Serial No. 168,864; published Dec. 26, 1922.
Lubricants. Keystone Lubricating Company. 166,504; Apr. 3; Serial No. 163,045; published Sept. 19, 1922.
Mayonnaise dressing, jams, and jellies. Tea Rose Corporation. 166,350; Apr. 3; Serial No. 138,657; published Jan. 9, 1923.
Milling machinery. Wolf Company. 166,475; Apr. 3; Serial No. 167,062; published Jan. 2, 1923.
Molded objects made from composition containing sulphur. F. J. Waldmeyer. 166,444; Apr. 3; Serial No. 166,543; published Jan. 9, 1923.
Nose adjusters. A. D. Rostow. 166,363; Apr. 3; Serial No. 170,507; published Dec. 19, 1922.
Nuts, Candied and salted. E. Steeves. 166,515; Apr. 3; Serial No. 163,716; published Jan. 9, 1923.
Oil, Cutting and lubricating. Wondruschka-Duda Company. 166,483; Apr. 3; Serial No. 170,555; published Jan. 2, 1923.
Oil, Olive. Bertini Bros. 166,454; Apr. 3; Serial No. 166,034; published Jan. 16, 1923.
Oil, Thinning. R. J. Brown Petroleum Company. 166,442; Apr. 3; Serial No. 166,646; published Jan. 9, 1923.
Oils and greases. Litwood Oil & Supply Company. 166,247; Apr. 3; Serial No. 157,226; published Jan. 16, 1923.
Oils and greases. Moore-Fuller Oil Co. 166,487; Apr. 3; Serial No. 170,778; published Jan. 9, 1923.
Oils and greases. Owenwood Oil Corporation. 166,851; Apr. 3; Serial No. 140,959; published Jan. 9, 1923.
Oils and greases, Lubricating. Standard Oil Company. 166,494; Apr. 3; Serial No. 171,666; published Jan. 2, 1923.
Oils and greases, Lubricating. Warren & Bailey Co. 166,518; Apr. 3; Serial No. 172,247; published Jan. 9, 1923.
Oils and greases, Lubricating and cutting. Frontier Manufacturing Company. 166,360; Apr. 3; Serial No. 170,878; published Dec. 19, 1922.
Oils, greases, etc. Humble Oil & Refining Company. 166,460; Apr. 3; Serial No. 169,594; published Jan. 9, 1923.
Oils, Lubricating. D-A Lubricant Company. 166,493; Apr. 3; Serial No. 171,225; published Jan. 9, 1923.
Olives and olive oil. Wyandotte Olive Growers Association. 166,502; Apr. 3; Serial No. 162,789; published Jan. 16, 1923.
Oranges, grapefruit, tangerines, etc., Fresh. J. C. Lee, sr. 166,421; Apr. 3; Serial No. 164,815; published Jan. 9, 1923.
Oranges, grapefruit, tangerines, etc., Fresh. Leesburg Packing House. 166,422; Apr. 3; Serial No. 164,813; published Jan. 9, 1923.
Paint and varnish remover. Marshall & Burke. 166,459; Apr. 3; Serial No. 169,642; published Jan. 9, 1923.
Paint and varnish removers. F. P. Schmidt. 166,446; Apr. 3; Serial No. 166,409; published Jan. 9, 1923.
Paint, Cold-water. Muralo Company. 166,465; Apr. 3; Serial No. 168,898; published Jan. 9, 1923.
Paint enamels. Frank Bownes Company. 166,484; Apr. 3; Serial No. 170,619; published Jan. 9, 1923.
Paint, Ready-mixed roof. Kling-Tite Products Co. 166,486; Apr. 3; Serial No. 170,687; published Jan. 9, 1923.
Paints. J. F. Chisholm. 166,485; Apr. 3; Serial No. 170,621; published Jan. 9, 1923
Paints and finishing compounds, Gold, bronze, and aluminum. P. L. O'Neill. 166,374; Apr. 3; Serial No. 169,959; published Dec. 5, 1922.
Paints, Ready-mixed and paste. Interstate Paint & Supplies Co. 166,398; Apr. 3; Serial No. 169,402; published Dec. 19, 1922.
Paints, varnishes, driers, paste paints, colors in oil, etc., Prepared. H. J. Kuhn. 166,489; Apr. 3; Serial No. 171,023; published Jan. 9, 1923.
Paints, varnishes, japans, and paint enamels. Stanley Chemical Company. 166,498; Apr. 3; Serial No. 162,514; published Jan. 9, 1923.
Paints, Water-color. Société des Peintures Economiques "Pixalo." 166,357; Apr. 3; Serial No. 149,149; published Jan. 9, 1923.
Pantographs. Burdette-Murray Company. 166,468; Apr. 3; Serial No. 166,669; published Jan. 2, 1923.
Paper, Bond writing. Chillicothe Paper Company. 166,371; Apr. 3; Serial No. 170,005; published Dec. 5, 1922.
Paper for writing and printing purposes, Bond and ledger. Miami Paper Company. 166,384; Apr. 3; Serial No. 169,644; published Nov. 7, 1922.
Paper, Headrest. E. Morris. 166,399; Apr. 3; Serial No. 169,370; published Nov. 7, 1922.
Paper, Toilet. Inlander-Steindler Paper Company. 166,365; Apr. 3; Serial No. 170,141; published Nov. 14, 1922.
Paper, waxed, parchment, and greaseproof paper, etc., Wrapping. F. C. Strype. 166,377; Apr. 3; Serial No. 169,790; published Nov. 14, 1922.
Paper wrappers for fruit. Nasbua Gummed & Coated Paper Company. 166,364; Apr. 3; Serial No. 170,254; published Nov. 28, 1922.
Paper, Wrapping. Inlander-Steindler Paper Company. 166,367; Apr. 3; Serial No. 170,140; published Nov. 28, 1922.
Peanut butter. Nash Coffee Company. 166,480; Apr. 3; Serial Nos. 166,901–2; published Jan. 16, 1923.
Peanuts in the shell. J. E. Clancy. 166,448; Apr. 3; Serial No. 166,346; published Jan. 16, 1923.
Pens, Steel. J. Alling. 166,361; Apr. 3; Serial No. 170,601; published Dec. 5, 1922.
Petroleum and products of petroleum. Standard Oil Company of New York. 166,345; Apr. 3; Serial No. 159,816; published Jan. 9, 1923.
Petroleum products. Seaside Oil Company. 166,496; Apr. 3; Serial No. 171,961; published Jan. 9, 1923.
Photographic developing papers. Haloid Company. 166,480; Apr. 3; Serial No. 170,288; published Jan. 2, 1923.
Photographic films. Ansco Company. 166,463; Apr. 3; Serial No. 169,274; published Jan. 2, 1923.
Pictures reproduced in copies for sale, Motion. C. L. Chester Productions, Inc. 166,354; Apr. 3; Serial No. 146,692; published Dec. 26, 1922.
Piece goods. Lesher, Whitman & Co. 166,375; Apr. 3; Serial No. 169,813; published Dec. 19, 1922.
Pistons, piston pins, and shafts for automobile motors, etc. H. E. Pence. 166,411; Apr. 3; Serial No. 166,850; published Jan. 2, 1923.
Polish, Automobile. M. M. Williams. 166,469; Apr. 3; Serial No. 168,660; published Nov. 7, 1922.
Polish for painted and varnished surfaces. Henry L. Hunter & Co. 166,373; Apr. 3; Serial No. 169,974; published Dec. 19, 1922.
Polish, Furniture. Grady Mfg. Co. 166,376; Apr. 3; Serial No. 169,806; published Dec. 5, 1922.
Polishing creams for painted, varnished, and lacquered surfaces. Callidendron Mfg. & Chemical Corp. 166,467; Apr. 3; Serial No. 168,824; published Jan. 9, 1923.
Polishing preparation for painted, varnished, or enameled surfaces, etc. "Sta-Rite" Mfg. Co. 166,372; Apr. 3; Serial No. 169,988; published Dec. 5, 1922.
Pop corn and other pop-corn confections, Candied. H. R. Blackford. 166,422; Apr. 3; Serial No. 164,153; published Jan. 9, 1923.
Potatoes. E. D. McSweeny. 166,501; Apr. 3; Serial No. 162,755; published Jan. 9, 1923.
Powder mixed with cold water and used as a wall coating, Dry. Muralo Company. 166,488; Apr. 3; Serial No. 170,986; published Jan. 9, 1923.
Pressure systems, pumps, and fluid-pressure motors, explosive engines, and parts thereof, Pneumatic. Duro Pump & Manufacturing Company. 166,416; Apr. 3; Serial No. 171,630; published Jan. 2, 1923.
Radio apparatus. De Forest Radio Telephone and Telegraph Company. 166,344; Apr. 3; Serial No. 159,955; published Jan. 9, 1923.
Radio outfit and parts thereof. Air-Way Electric Appliance Corporation. 166,428; Apr. 3; Serial No. 164,483; published Dec. 26, 1922.
Radio receiving sets, radio receiving and sending set parts. Radio Engineering & Sales Co. 166,447; Apr. 3; Serial No. 164,405; published Jan. 16, 1923.
Radioactive pads for surgical or medical use. Physician's Radiopathic Company. 166,497; Apr. 3; Serial No. 162,265; published Jan. 9, 1923.
Radius tools and knurling tools for holders. A. Sheberashenko. 166,503; Apr. 3; Serial No. 162,954; published Jan. 2, 1923.

Refrigerators, Showcase. Harry L. Hussmann Refrigerator & Supply Co. 166,379; Apr. 3; Serial No. 169,760; published Nov. 7, 1922.
Rivets, eyelets, lacing hooks, garments, etc. Edwin B. Stimpson Company. 166,400; Apr. 3; Serial No. 147,814; published Jan. 2, 1923.
Rubber-dam holders. Detroit Dental Manufacturing Company. 166,490; Apr. 3; Serial No. 171,065; published Jan. 9, 1923.
Silk and artificial-silk piece goods, cotton, wool, and combinations thereof. M. Feist. 166,369; Apr. 3; Serial No. 170,059; published Jan. 9, 1923.
Silk fabrics in the piece. Cheney Brothers. 166,381; Apr. 3; Serial No. 168,701; published Dec. 19, 1922.
Silk piece goods. Robinson Silk Co. 166,386–7; Apr. 3; Serial Nos. 169,497–8; published Dec. 12, 1922.
Spraying machines for applying paints, varnishes, hose cleaners, etc., Compressed-air. De Vilbiss Manufacturing Co. 166,404; Apr. 3; Serial No. 161,177; published Jan. 2, 1923.
Straps to hold children in high chairs, etc., Safety. Marathon Company. 166,340; Apr. 3; Serial No. 162,027; published Jan. 9, 1923.
Sugar, Icing. J. H. Woodward Company. 166,348; Apr. 3; Serial No. 155,726; published Jan. 9, 1923.
Tablets. American Tablet Co. 166,366; Apr. 3; Serial No. 170,175; published Nov. 14, 1922.
Tanks, Metal. Youngstown Welding Company. 166,479; Apr. 3; Serial No. 170,231; published Jan. 9, 1923.
Telephone apparatus, Electromagnetic. Monarch Telephone Manufacturing Company. 166,464; Apr. 3; Serial No. 168,933; published Dec. 26, 1922.
Telephone, telegraph, and radio apparatus. Federal Telephone & Telegraph Co. 166,470; Apr. 3; Serial No. 168,106; published Dec. 2, 1922.
Temperature-control apparatus, Thermostatic. American Thermostat Co. 166,491; Apr. 3; Serial No. 171,115; published Jan. 2, 1923.
Thermometers, hypodermic syringes and needles, Clinical and medical. G. Faichney Company. 166,478; Apr. 3; Serial No. 170,013; published Jan. 9, 1923.
Tires, Puncture-filling compound for automobile and other. G. Ruiz. 166,481; Apr. 3; Serial No. 170,406; published Jan. 9, 1923.
Trusses, Combination steel and elastic. Woodard, Clarke & Co. 166,355; Apr. 3; Serial No. 147,174; published Jan. 9, 1923.
Valves and cocks, gas appliances, Brass. Detroit Brass & Malleable Works. 166,401; Apr. 3; Serial No. 153,649; published July 4, 1922.
Varnish. Paraffine Companies. 166,382; Apr. 2; Serial No. 169,683; published Dec. 5, 1922.
Varnish, Rub. Moore & Kellar. 166,349; Apr. 3; Serial No. 152,857; published Jan. 9, 1923.
Varnishes, paints, japans. N. Z. Graves Incorporated. 166,461; Apr. 3; Serial No. 169,548; published Jan. 9, 1923.
Washing compounds. T. E. Riggs. 166,410; Apr. 3; Serial No. 166,749; published Dec. 5, 1922.
Watermelons. Southwest Georgia Watermelon Growers' Association. 166,427; Apr. 3; Serial No. 164,673; published Jan. 9, 1923.
Wire cloth, Galvanized-. Wickwire Spencer Steel Corporation. 166,403; Apr. 3; Serial No. 160,737; published Dec. 19, 1922.
Wire rope. Williamsport Wire Rope Distributing Company. 166,472; Apr. 3; Serial No. 167,746; published Jan. 9, 1923.

ALPHABETICAL LIST OF LABELS.

Bernice Guaranteed Perfect Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,776–8; Apr. 3.
Bernice Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,781; Apr. 3.
Blendwell Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,780; Apr. 3.
Childs Very Best Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,772; Apr. 3.
Cuban Prize. For Cigars. Ginsburg Cigar Company. 25,795; Apr. 3.
D. P. Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,784; Apr. 3.
Drum's. For Malt Extract. H. F. Drummond. 25,793; Apr. 3.
Eveready Radio 'A' Battery. For Electric Batteries. National Carbon Company. 25,802; Apr. 3.
Famous Brand Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,775; Apr. 3.
Fangerine. For Laxative and Corrective Preparations. Gotham Corporation. 25,797; Apr. 3;
Flory's Blendwell Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,786; Apr. 3.
Gold Chain Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,788; Apr. 3.
Golden Rose Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,774; Apr. 3.
Hillco Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,789; Apr. 3.
Konomy Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,782; Apr. 3.
Lenz-Lite. For a Bottle of Liquid for Cleaning Glasses. M. C. Kenney. 25,800; Apr. 3.
Maid Of The Birch. For Packages Containing Toothpicks. Hardwood Products Co. 25,798; Apr. 3.
Mavoureen Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,783; Apr. 3.
Nu-Type. For a Preparation Used for Cleaning Metal Type and Stamps. C. E. Tidwell. 25,803; Apr. 3.
Par-Lin Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,787; Apr. 3.
Patch-O-Paint. For an Enamel for Metal Surfaces. B. D. K. Company. 25,792; Apr. 3.
Philco Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,773; Apr. 3.
Pocket Radio. For Pocket Radio Receiving Sets. Auto Indicator Company. 25,791; Apr. 3.
Pom-Ora. For Nonalcoholic Beverages. Florida Products Company. 25,794; Apr. 3.
Portage Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,785; Apr. 3.
Rogers Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,790; Apr. 3.
Saigo. For Varnish. M. Gordon. 25,796; Apr. 3.
Silver-Birch. For Packages Containing Toothpicks. Minto Tooth Pick & Specialty Co. 25,801; Apr. 3.
Trophy Tooth Picks. For Packages Containing Toothpicks. Hardwood Products Co. 25,799; Apr. 3.
Wanda Guaranteed Perfect Hair Net. For Hair Nets. Ad-Packed Hair Net Co. 25,779; Apr. 3.

ALPHABETICAL LIST OF PRINTS.

Could you wear a string of pearls? For Soap. James S. Kirk & Company. 6,634; Apr. 3.
Dare you wear a diamond ring? For Soap. James S. Kirk & Company. 6,633; Apr. 3.
Kirk's Cocoa Hardwater Castile. For Soap. James S. Kirk & Company. 6,635; Apr. 3.
Look best—Longest. For Knitted Neckties and Scarfs. Franklin Knitting Mills, Inc. 6,632; Apr. 3.
My Life's Best Work. For Bread. Ward Baking Company. 6,637; Apr. 3.
Slasum. For Insecticide to Kill Boll Weevil. Southern Farm Products Co. 6,636; Apr. 3.
Snow Fluff. For Toilet Powder. E. Fougera & Co. 6,631; Apr. 3.
Spark the Human Engine with Eline Chocolate Bars. For Chocolates. Eline's Incorporated. 6,630; Apr. 3.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Antiseptic for the prevention of venereal diseases. F. M. Naumann. 156,105; Apr. 3.
Antiseptic lotion for treatment of the scalp and skin. E. B. Finlayson. 172,830; Apr. 3.
Astringents and mild antiseptics. H. A. Metz Laboratories, Inc. 173,434; Apr. 3.
Automobile bodies. Fisher Body Corporation. 168,464; Apr. 3.
Awnings and tarpaulins. Indianapolis Tent & Awning Company. 172,538; Apr. 3.
Bags, Laundry. Tingue, Brown & Co. 174,758; Apr. 3.
Baling material used in tanning leather. Moser & Co. 173,101; Apr. 3.
Batteries, Electric. Englert Manufacturing Co. 152,609; Apr. 3.
Batteries, Secondary electrical. Bartholomew Battery & Supply Co. 157,020; Apr. 3.
Batteries, Storage. G. M. Biehl. 167,347; Apr. 3.
Belts, Apparel. Harris Suspender Company. 172,944; Apr. 3.
Bibs, Quick-compression. E. Stebbins Manufacturing Company. 174,271; Apr. 3.
Bloomers, Women's. L. N. Gross Company. 169,240; Apr. 3.
Blotters. Standard Paper Manufacturing Co. 161,283; Apr. 3.
Boots and shoes, Leather. Geo. E. Keith Company. 152,760; Apr. 3.
Boots and shoes, Women's. Globe Shoe Company. 169,900; Apr. 3.
Bottle caps. American Bottle Cap Co. 151,777; Apr. 3.
Bottles for medical purposes, Hot. B. H. Dyer Company. 169,053; Apr. 3.
Brake lining. Johns-Manville, Incorporated. 172,046; Apr. 3.
Brake lining and clutch-disk facing, Asbestos. Asbestos and Allied Products Co. 174,813; Apr. 3.
Bread. Corby Baking Company. 94,532; Apr. 3.
Bread. L. B. Fellner. 169,579; Apr. 3.
Bread. Old Homestead Bread Company. 159,978; Apr. 3.
Bread. Ward Baking Company. 168,699; Apr. 3.
Bread. Ward Baking Company. 169,386; Apr. 3.
Bread, Loaves of wheat. Jay Burns Baking Company. 162,980; Apr. 3.
Butter, dried beans, bread, etc. H. P. Hood & Sons, Inc. 146,216. Apr. 3.
Buttons, shoe ornaments, badges, and emblems. Hinckley Manufacturing Co. 165,552; Apr. 3.
Camera and film kits, Combined. Ansco Company. 169,798; Apr. 3.
Candies. Robert A. Johnston Co. 169,715; Apr. 3.
Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. 168,978; Apr. 3.
Candies. W. F. Schrafft & Sons Corporation. 159,327; Apr. 3.
Candy. L. L. Lipschultz. 169,311; Apr. 3.
Candy. New England Confectionery Company. 154,812; Apr. 3.
Candy. New England Confectionery Company. 154,815; Apr. 3.
Candy. Stephen F. Whitman & Son. 171,052; Apr. 3.
Candy, Chocolate. Advance Candy M'f'g Corp. 164,356; Apr. 3.
Canned fruits and vegetables, dried fruits, etc. P. R. Weidner. 168,343; Apr. 3.
Canned pineapple. Hawaiian Pineapple Company. 168,109; Apr. 3.
Caps, Boys' and men's. S. M. Blumenfield. 173,953; Apr. 3.
Cantaloupes, Fresh. T. H. Peppers. 162,949; Apr. 3.
Cheese. Crawford Farms, Incorporated. 168,025; Apr. 3.
Cheese. C. A. Straubel Co. 157,857; Apr. 3.
Cheese, Cream. A. Britton. 168,097; Apr. 3.
Cheese, mustard, farina, tea, coffee, chocolate, etc. I. Geltman. 169,751; Apr. 3.
Chemical preparation suitable for the treatment of hair. G. H. Weyer. 173,311; Apr. 3.
Chocolate fruit bar. Gruenhagen's. 168,766; Apr. 3.
Chocolates and candies. E. Greenfield's Sons. 170,377; Apr. 3.
Cigars. Peoples Drug Stores, Inc. 157,890; Apr. 3.
Cigars, cheroots, and cigarettes. C. Fernandes. 174,432; Apr. 3.
Cigars, cigarettes, and smoking tobacco. R. C. Importation Corporation. 173,857; Apr. 3.
Clothes hangers. Hunger & Hunger. 156,688; Apr. 3.
Coal. King Coal Company. 167,966; Apr. 3.
Coal. Victor-American Fuel Company. 164,472; Apr. 9.
Coal. Victor-American Fuel Company. 164,476; Apr. 3.
Coal, Bituminous. Maynard Coal Company. 158,191; Apr. 3.
Coats. Dorfman & Miller. 169,396; Apr. 3.
Coffee, canned fruits, vegetables, and fish, table molasses. Potter-McCune Company. 167,687; Apr. 3.
Coffees, teas, and spices. L. M. Goldman. 153,600; Apr. 3.
Cologne waters, bath salts, face clays, etc. Marschat Import Co. 167,530; Apr. 3.
Combs, Fountain. Capitola Tonic Comb Co. 173,463; Apr. 3.
Containers. F. X. Eberle. 172,936; Apr. 3.
Cordage. Hooven & Allison Company. 154,515; Apr. 3.
Cotton goods in the piece. Nap. Eustathopoulo & Fils. 165,990; Apr. 3.
Cotton piece goods. W. R. Grace & Co. 174,898; Apr. 3.
Cotton piece goods. Great Falls Manufacturing Company. 157,367; Apr. 3.
Cotton piece goods. Nathan & Cohen Co. 175,509; Apr. 3.
Cotton piece goods. Pacific Mills. 175,677; Apr. 3.
Cotton piece goods. Louis Siegbert & Bro. 174,037. Apr. 3.
Cracker products, crackers, cakes, and Dutch-style cookies, W. R. Montague Company. 170,076; Apr. 3.
Crayons, chalks, and pencils. American Crayon Company. 171,440; Apr. 3.
Creams, shaving and beauty lotions, etc., Almond massage. E. M. Munson. 168,057; Apr. 3.
Curtain brackets. J. H. Rogers. 170,729; Apr. 3.
Decorators Wall Paper Co. (See Webster, Harry W.)
Dental cement. W. V-B. Ames Company. 175,696; Apr. 3.
Deodorants. P. K. Hornsby. 157,923; Apr. 3.
Die-casting metal and die castings. Doehler Die-Casting Co. 174,562; Apr. 3.
Dolls. K. F. Sischo. 168,651; Apr. 3.
Door handles, Locking. Bersted Manufacturing Company. 171,060; Apr. 3.
Dresses. Nickels Manufacturing Company. 169,179; Apr. 3.
Dye, Oil leather. Benton Holladay & Co. 172,195; Apr. 3.
Dyes and dyestuffs. Grasselli Chemical Company. 172,986; Apr. 3.
Dynamos, electromotors and parts thereof, electrical apparatus. Deutsche Elektrizitäts-Werke Zu Aachen-Gerbe, Lahmeyer & Co. Aktiengesellschaft. 162,985; Apr. 3.
Electric conduit fittings. L. F. Brunner. 156,344; Apr. 3.
Electric-light bulbs, lamp sockets, etc., Apparatus for installing and removing. G. C. A. Manufacturing Company. 174,570; Apr. 3.
Electrical wires, Protective covering for. Tubular Woven Fabric Company. 170,913; Apr. 3.
Feed, Dairy. American Milling Company. 163,848; Apr. 3.
Feed, Dairy and cattle. Larrowe Milling Company. 159,587–9; Apr. 3.
Feed, Poultry. Quisenberry Feed Mf'g. Co. 164,265; Apr. 3.
Feed, Poultry. Quisenberry Feed Mf'g. Co. 164,773–4; Apr. 3.
Fertilizers. Rogers & Hubbard Company. 166,713; Apr. 3.
Fire-extinguishing powders. C. R. Marstin. 168,272; Apr. 3.
Fire hose, Cotton. Wm. & Chas. Beck, Inc. 175,124; Apr. 3.
Flavoring preparation for food products. Francis H. Leggett & Company. 169,859; Apr. 3.
Flavorings and extracts. Arthur L. Leech Co. 160,889; Apr. 3.
Floor coverings. Salem Manufacturing Company. 174,153; Apr. 3.
Flour, Fancy patent hard-wheat. William H. Oldach Inc. 163,232; Apr. 3.
Flour, Wheat. Hanson Milling Company. 161,881; Apr. 3.
Flour, Wheat. J. K. Hevener. 157,152; Apr. 3.
Flour, Wheat. Randolph Milling Company. 168,170; Apr. 3.
Flour, Wheat. B. L. Robertson. 169,323; Apr. 3.
Flour, Wheat. Frank C. Williams, Inc. 167,277; Apr. 3.
Food articles. Never Enough Pie Company. 169,769; Apr. 3.
Food, Birds'. James Butler Grocery Company. 163,480; Apr. 3.
Food, Breakfast cereal. Albers Bros. Milling Co. 169,270; Apr. 3.
Food preparation. Certified Foods, Inc. 163,918; Apr. 3.
Fruits, Fresh citrus. Redland Citrus Growers Association. 168,068; Apr. 3.
Fur skins. North American Fur Dyeing Company. 171,883; Apr. 3.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Furniture and upholstery. William Lawrence & Co. 134,969; Apr. 3.
Fuse plugs. W. O. Besaw. 167,929; Apr. 3.
Gaiters of leather, fabric, and combination. F. H. Tinson. 169,731; Apr. 3.
Game, Parlor board. Disc Alley Manufacturing Company. 165,010; Apr. 3.
Games and game apparatus. M. L. Brooks. 170,967; Apr. 3.
Gasoline. Standard Oil Company. 172,691; Apr. 3.
Gingahams in the piece. Henry Glass & Co. 173,820; Apr. 3.
Glass plates, bowls, nappies, jars, jugs, pitchers, etc. Jeanette Glass Company. 172,277; Apr. 3.
Glasses and enamels, Ready-prepared ceramic. Vitro Manufacturing Company. 168,625; Apr. 3.
Gold, platinum, palladium, and silver metals and solder and rolled sheets and plates. American Platinum Works. 173,392; Apr. 3.
Gowns, wraps, dresses, coats, etc., Ladies', women's, and misses'. Lousols Philadelphia. 168,901; Apr. 3.
Gravel, Paving. Allen Gravel Company. 159,676; Apr. 3.
Hair dressing and dandruff remedy. A. J. Krank. 173,427–8; Apr. 3.
Hair growers, tetter salve, face cream, etc. Mme. Bertha M. Hicks Manufacturing Co. 171,365; Apr. 3.
Hair tonics and scalp preparation. A. M. Edwards, Incorporated. 170,011; Apr. 3.
Handkerchiefs. T. B. Lamb. 159,096; Apr. 3.
Hat frames. Capitol Hat Frame Works. 170,807; Apr. 3.
Hats and caps. Disney Hats. 171,299; Apr. 3.
Hats and caps, Men's felt, straw, cloth, and silk. Hanover-Hall Company. 174,389; Apr. 3.
Hats, caps, shirts, etc., Men's. Jordan Marsh Company. 169,490; Apr. 3.
Heaters, radiant floor and wall heaters, etc., Electric water and air. W. W. Hicks. 174,962; Apr. 3.
Heterocyclic compounds. M. Freiberger. 168,253; Apr. 3.
Honey. L. R. Nolen. 169,072; Apr. 3.
Hose, belting, and packing. Vorhees Rubber Mfg. Co. 171,003; Apr. 3.
Hosiery. J. H. Blaetz. 155,595; Apr. 3.
Hosiery. George Wills and Sons, Ltd. 163,722. Apr. 3.
Hosiery supporters. Kondo Novelty Co. 170,201; Apr. 3.
House-fly killer, liquid roach killer, liquid mosquito killer and repellant, etc. N. E. Morgan. 172,388; Apr. 3.
Ice cream. P. Smolinsky. 166,725; Apr. 3.
Ice cream. Watson & Avon. 169,343; Apr. 3.
Insect exterminator. W. H. Metzger. 164,180; Apr. 3.
Knitted, netted, and textile fabrics. Calhoun, Robbins & Co. 172,200; Apr. 3.
Lamps, electromotors, dynamos, etc., Electrical. Philipps Aktien Gesellschaft. 170,286; Apr. 3.
Laundry washing machines. The Fair. 174,614; Apr. 3.
Lead, Pure white. Eagle Picher Lead Company. 170,757; Apr. 3.
Leather, Sole. C. G. Fleckenstein Co. 167,386; Apr. 3.
Lenses and frames for eyeglasses and spectacles. Baltimore Optical Company. 172,929; Apr. 3.
Letterheads, envelopes, report blanks, etc. Supreme Orient O. O. H. & P. 145,597; Apr. 3.
Linen, handkerchiefs, towels, curtains, etc., Table and bed. M. G. Guerra Co. Inc. 175,786; Apr. 3.
Lotion for external application. Abraham & Straus, Inc. 172,813. Apr. 3.
Lotions, Face. I. Auld. 173,393; Apr. 3.
Lubricants. Carbide & Carbon Chemicals Corporation. 175,710; Apr. 3.
Lumber. J. H. Burton & Sons Co. 173,400; Apr. 3.
Liquors, Aging and softening chemical powder for. F. D. Burhop. 171,196; Apr. 3.
Magnetos and electric motors. Fabriques des Montres Zénith. 171,014; Apr. 3.
Malt extract. Falstaff Corporation. 161,831; Apr. 3.
Malt extracts. Henning Wennersten Incorporated. 173,422; Apr. 3.
Malt, Liquor or liquid preparation containing. Coleman and Company. 140,917; Apr. 3.
Medicinal powder, Suppurative. Sharp & Dohme. 171,596; Apr. 3.
Medicine for the blood and stomach. I. Paul. 167,533; Apr. 3.
Medicine for treatment of tuberculosis, chronic coughs, colds, etc. W. C. King. 172,477; Apr. 3.
Medicine for rheumatism, backache, etc., and insecticides. Duncan Chemical Co. 168,518; Apr. 3.
Metals and alloys and ingots, castings, sheets, etc. Anaconda Copper Mining Company. 164,291; Apr. 3.
Milk and a powder for making a beverage, Powdered. Empire Food Products Company. 151,358; Apr. 3.
Milling products. Berea Milling Co. 145,933; Apr. 3.
Mirrors for vehicles, windshields, wings, shock absorbers, etc. Trico Products Corporation. 170,910; Apr. 3.
Mouth wash. H. M. Donahue. 171,908; Apr. 3.
Music rolls for automatic pianos, Perforated. Juan Bautista Biancafort S. en C. 141,348; Apr. 3.
Nails. American Steel and Wire Company of New Jersey. 168,594; Apr. 3.
Neckties, cravats, scarfs, hats, caps. The Collegian. 148,973; Apr. 3.
Noodles. Weitz & Lefft. 161,949; Apr. 3.
Oil and grease, Lubricating. D. J. Lowry. 171,584; Apr. 3.
Oil, caraway and celery seeds, cocoa butter, etc., Olive. Sun Drug Company. 139,632; Apr. 3.
Oil, Crank-case-flushing. American Oil Company. 171,719; Apr. 3.
Oil for medicinal purposes, White mineral. Sherwood Petroleum Company. 173,368–9; Apr. 3.
Oils and greases, Lubricating. California Paint Company. 165,483; Apr. 3.
Oils and greases, Lubricating. Panhard Oil Corporation. 172,552; Apr. 3.
Oilcloth. Julius Wile Sons & Co. 175,829; Apr. 3.
Ointments and liniments. A. H. Hinkson. 172,593; Apr. 3.
Packages, Toilet. F. P. Hudnall. 172,045; Apr. 3.
Paint and paint thinner, Ready-mixed. Barrett Company. 173,269; Apr. 3.
Paint and varnish remover. C. W. Grant. 175,487; Apr. 3.
Paint enamels. Baker Paint & Varnish Co. 174,604; Apr. 3.
Paint, linseed oil, etc., Oils. L. A. Stabler. 154,287; Apr. 3.
Paints, putty, linseed oil, and turpentine, etc. H. W. Webster. 160,908; Apr. 3.
Paints, varnishes, and paint enamels. Enterprise Paint Mfg. Co. 174,001–2; Apr. 3.
Paints, varnishes, putties, dry color, white lead, etc. Baker Paint & Varnish Co. 174,605; Apr. 3.
Paper and cardboard, Writing. Harlem Card & Paper Company. 173,566; Apr. 3.
Paper and other sheet material, Machines for cutting, piling, etc. Maxson Automatic Machinery Company. 155,973; Apr. 3.
Paper and paper towels, Toilet. Wortendyke Manufacturing Co. 171,192; Apr. 3.
Paper, envelopes, etc. J. C. Blair Company. 175,706; Apr. 3.
Paper, Insulating. Barrett Company. 173,345; Apr. 3.
Paper towels and napkins. Independent Paper Mills, Inc. 174,141; Apr. 3.
Paper towels, napkins, etc., Dispensing devices for. Independent Paper Mills, Inc. 176,186; Apr. 3.
Paper, Writing. E. E. Lloyd Paper Company. 176,028; Apr. 3.
Papers, Book. Kimberly-Clark Company. 175,662–4; Apr. 3.
Papeteries, writing and typewriting tablets, writing paper, etc. White & Wyckoff Manufacturing Company. 175,749; Apr. 3.
Paprika and spices. E. Miltenberg, Inc. 169,407; Apr. 3.
Pearls, Artificial. Henshel Co. Inc. 173,597; Apr. 3.
Perfume, toilet water, hair tonic, etc. Karlsruher Parfumerie- & Toiletteseifen-Fabrik F. Wolff & Sohn, G. m. b. H. 152,758; Apr. 3.
Petroleum and products of petroleum. Standard Oil Company of New York. 175,959–60; Apr. 3.
Petroleum and products of petroleum. Standard Oil Company of New York. 175,965; Apr. 3.
Petroleum and products of petroleum. Standard Oil Company of New York. 175,968; Apr. 3.
Photographic paper, Sensitized. Republic Photographic Corporation. 174,336; Apr. 3.
Pickaxes, crowbars, wrenches, tercados, mattocks, etc. Collins Company. 174,559; Apr. 3.
Pictures, Motion. Chaplin Classics Inc. 173,072; Apr. 3.
Pins, belt buckles, bracelets, brooches, neck chains, etc., Bar. Dinhofer Bros. Inc. 173,918; Apr. 3.
Pins, buckles, clasps, buttons, watch chains, neck chains, etc. William C. Green Company. 172,331; Apr. 3.
Platinum in bars, sheets, etc., and platinum solder. Dinhofer Bros. Inc. 173,919; Apr. 3.
Polish, Furniture. J. E. Smith. 175,529; Apr. 3.
Polish, Furniture and automobile. Viller & Frost. 159,449; Apr. 3.
Potato chips. H. C. Blakely. 168,913; Apr. 3.
Preparation for internal and external use for the alleviation of pain, etc. F. H. Bryant. 170,423; Apr. 3.
Preparation of acid reaction for preventing rust. American Chemical Paint Company. 156,955; Apr. 3.
Pretzels. T. A. Myers. 165,502; Apr. 3.
Printing presses, lithographic presses, etc., Rollers for. Ideal Roller & Manufacturing Co. 172,678; Apr. 3.
Pyorrhea remedy. Daugherty & Jackson. 172,666; Apr. 3.
Radio crystals. Radiola Wireless Corporation. 168,786; Apr. 3.
Radio equipment. R. E. Goll. 174,388; Apr. 3.
Raincoats. Gillette Rubber Company. 165,950; Apr. 3.
Receptacles for gloves, handkerchiefs, lingerie, and saving materials. Tin Decorating Company of Baltimore. 160,165; Apr. 3.
Refrigerating and ice-making apparatus. Winter Machine Company. 145,864; Apr. 3, 1923.
Refrigerating apparatus, Artificial. Freezerator Co. 163,512; Apr. 3.
Remedy for corns, calluses, and warts. S. Holsman. 170,818; Apr. 3.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rolls, Edible. Tristate Baking Co. 169,103; Apr. 3.
Rubber and fabric belting. New York Belting and Packing Company. 175,320; Apr. 3.
Rubber and fabric belting. New York Belting and Packing Company. 175,322; Apr. 3.
Rubber boots and shoes. La Crosse Rubber Mills Co. 170,489; Apr. 3.
Rubber heels. Armstrong Cork Company. 159,828; Apr. 3.
Rubber heels. Tee Pee Rubber Company. 169,372; Apr. 3.
Rubbers, Jar. Joannes Bros. Co. 172,880; Apr. 3.
Rubber Manufacturing, Dry color for use in. Ault & Wiborg Co. 167,285; Apr. 3.
Salad dressing. F. L. Kayack. 170,435; Apr. 3.
Salve for sore and calloused feet, Healing. A. Michel. 173,521; Apr. 3.
Salve for the treatment of catarrh, sore throat, etc. H. E. Capdan. 169 888; Apr. 3.
Sewing case. B. S. Schwed. 173,010; Apr. 3.
Shells, Shot. Western Cartridge Company. 163,285; Apr. 3, 1923.
Shoes. Fiebrich-Fox-Hilker Shoe Company. 173,480–1; Apr. 3.
Shoes, Leather. T. D. Barry Company. 173,460; Apr. 3.
Shoes, Leather and fabric. L. L. Kann. 173,426; Apr. 3.
Shoes made of leather. Lederer & Latz. 170,655; Apr. 3.
Shoes, slippers, and cloth spats. Rubin Bros. Foot-Wear. 169,826; Apr. 3.
Silk piece goods. Duplan Silk Corporation. 175,473; Apr. 3.
Size in dry powder form, Wall. Muralo Company. 173,201. Apr. 3.
Soaps, pastes, powders, etc. Devoto y Cauchaner. 171,729; Apr. 3.
Solution for the treatment of inflamed, tender, or bleeding gums, pyorrhea, etc. J. W. Behrendt. 173,554; Apr. 3.
Steel bars and billets. A. P. Scripture. 175,328; Apr. 3.
Steel, Liquid used in heat-treating. Nypros Steel Company. 170,400; Apr. 3.
Steel rods. Globe Wire Co. 174,772; Apr. 3.
Stoves, Cooking and heating. Holbrook, Merrill & Stetson. 162,409; Apr. 3.
Suits and overcoats, Men's ready-made. L. Shapiro. 163,117; Apr. 3.
Sweet-pickled watermelon rind. G. B. Raffetto, Inc. 169,561; Apr. 3.
Tablets, Medicinal. California Alfalfa Products Company. 158,221; Apr. 3.
Tea. Lam, Glines & Co. 167,137; Apr. 3.
Telephone cords, electric-iron cords, etc., Supports for. Snappy Sales Co. 173,539; Apr. 3.
Telephone plugs. L. de F. Munger. 173,576; Apr. 3.
Thermometers, syringes, eye droppers, etc., Clinical. Elsele & Co. 173,959; Apr. 3.
Thread and yarn. N. Chertoff, Inc. 159,140. Apr. 3.
Tire casings, Pneumatic. B. F. Goodrich Company. 172,472; Apr. 3.
Tire fabrics in the piece, Cotton. Manhasset Manufacturing Company. 170,439–40; Apr. 3.
Tire patch, Self-vulcanizing. L. A. Finstick. 169,582; Apr. 3.
Tires and inner tubes, Nonmetallic pneumatic. Globe Rubber Tire Manufacturing Co. 175,589; Apr. 3.
Tires, Nonmetallic. Badger Rubber Works. 170,267; Apr. 3.
Tires, Rubber. Doscat Tire & Rubber Corporation. 172,260; Apr. 3.
Toilet preparations. E. Shely. 162,696; Apr. 3.
Tonic for use upon the scalp or skin. E. D. Schneider. 171,140; Apr. 3.
Tonic to assist the digestion of food in the stomach. G. Code. 172,663; Apr. 3.
Tooth paste and tooth cleanser and a preparation for the treatment of pyorrhea. A. A. Hatfield. 167,676; Apr. 3.
Toothache medicine. Barnard Manufacturing Company. 173,394; Apr. 3.
Torches, Preheating. Weldit Company. 166,965; Apr. 3.
Trucks and trailers, Industrial. Colby Steel and Engineering Co. 142,775; Apr. 3.
Underwear and hosiery. Munsingwear Corporation. 175,508; Apr. 3.
Vacuum tubes. Electrad Corporation of America. 173,960; Apr. 3.
Varnish. Pittsburgh Plate Glass Company. 175,517; Apr. 3.
Vehicles, Mirrors for motor. Kales Stamping Company. 172,597; Apr. 3.
Vehicles, Two-wheeled children's coaster. Advance Manufacturing Co. 174,684; Apr. 3.
Vending machines, Coin-controlled. O. D. Jennings and Company. 168,719; Apr. 3.
Violins and similar musical instruments, Strings for. Simson & Frey, Inc. 172,561; Apr. 3.
Watches, watch movements, and parts of the same. Hipp. Didisheim Company, Inc. 174,618; Apr. 3.
Watches, watch movements, and parts of the same. Hipp. Didisheim Company. 174,620; Apr. 3.
Watches, watch movements, and parts of the same. Hipp. Didisheim Company. 174,622–4; Apr. 3.
Wax, Laundry, Brun Mfg. Co. 168,201; Apr. 3.
Window adjusters, Casement. Miami Manufacturing Co. 173,520; Apr. 3.
Wool and cotton admixture piece goods. Samuel Kirk & Sons, Limited. 132,052; Apr. 3.
Worsted piece goods. W. M. Biggar & Co. 174,165; Apr. 3.
Woolen piece goods. Forstmann & Huffmann Company. 175,482; Apr. 3.
Woolen piece goods. Hager, Clark & Co. 174,007; Apr. 3.
Woven fabrics, Imported. H. Baechtold. 174,032; Apr. 3.
Yarn. Wm. H. Horstmann Company. 172,475; Apr. 3.
Yarn. Wyman, Partridge & Co. 156,207; Apr. 3.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Adrian O., jr., Detroit, Mich., assignor to Morgan & Wright. Heavy-truck-tire flap. 1,450,163; Apr. 3.
Adam, Harry C., St. Louis, Mo. Holder for illuminating glassware. Des. 62,179; Apr. 3.
Adam, Harry C., St. Louis, Mo. Holder for illuminating glassware. Des. 62,180. Apr. 3.
Adam, Harry C., St. Louis, Mo. Holder for illuminating glassware. Des. 62,181; Apr. 3.
Adam, Harry C., St. Louis, Mo. Holder for illuminating glassware. Des. 62,182; Apr. 3.
Adam, Harry C., St. Louis, Mo. Holder for illuminating glassware. Des. 62,183; Apr. 3.
Adams, Edward A., Trumansburg, N. Y. Window board. 1,450,537; Apr. 3.
Adams, James L., jr. (See Smith, R. S., and Adams.)
Adams, Pomeroy. (See Stogner, J. E., and Adams.)
Adams, Roy W., New Britain, Conn. Reciprocating power jr pump. 1,450,345; Apr. 3.
Agnew, George B. (See de Simone, Michele G., assignor.)
Agnew, Thomas L. (See Helmick, M. J., and Agnew.)
Air Reduction Company, Incorporated. (See Anderson, J. L., and Plumley, assignors.)
Albach, Frank. (See Medart, P. S., and Albach.)
Alberger, Alvan H., New York, N. Y. Driving mechanism for agitators. 1,450,660; Apr. 3.
Alchemic Gold Company. (See McElroy, W. J., and Clarke, assignors.)
Alexander, William S., Elsmere, Del. Washer. 1,450,625. Apr. 3.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless amplifier. 1,450,275; Apr. 3.
Allen, George F., Oronogo, Mo. Hydrocarbon-oil burner. 1,450,881; Apr. 3.
Allen, Horace E., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Leer conveyer for sheet glass. 1,450,571; Apr. 3.
Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Manufacturing Company. (See Holthoff, Henry C., assignor.)
Allis-Chalmers Manufacturing Company. (See Kollberg, Gustaf L., assignor.)
Allis-Chalmers Manufacturing Company. (See Mortensen, Soren H., assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Manufacturing Company. (See Stemmler, Edwin F., assignor.)
Allworth, Frank E., assignor to Kalamazoo Paper Box Company, Kalamazoo, Mich. Display box. 1,450,477; Apr. 3.
Aluminum Company of America. (See Salisbury, Robert F., assignor.)
Aluminum Company of America. (See Varney, Theodore, assignor.)
Alvey Manufacturing Company. (See Rebstock, August, assignor.)
American Can Company. (See Leighton, George A., assignor.)
American Can Company. (See Wood, Frederick P., assignor.)
American Steel Foundries. (See Bender, Frederic H., assignor.)
American Telephone and Telegraph Company. (See Espenscheid, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)
Ames, Butler. (See Gilinson, Philip, assignor.)
Anderson, Anton, Port Washington, Wis. Concrete stair block. 1,450,404; Apr. 3.
Anderson, Carl L., assignor of one-fourth to L. Faust, one-fourth to E. S. Ekstrom, and one-fourth to C. E. Swenson, Rockford, Ill. Universal joint. 1,450,706; Apr. 3.
Anderson, Carl D., assignor of one-fourth to L. Faust, one-fourth to E. S. Ekstrom, and one-fourth to C. E. Swenson, Rockford, Ill. Universal joint. 1,450,707. Apr. 3.
Anderson, Carl L., et al. (See Faust, Levin, assignor.)
Anderson, James G., Needham, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Making resilient split rings. 1,450,346; Apr. 3.
Anderson, James L., Bayonne, and S. Plumley, Westfield, N. J., assignors, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Pressure regulator. 1,450,236; Apr. 3.
Anderson, Raymond E., Boone, Iowa. Draft equalizer. 1,450,781; Apr. 3.
Anderson, Robert M., Como, Miss. Plow fender. 1,450,828; Apr. 3.
Anderson, Wilson D., Bremerton, Wash. Vending device. 1,450,829; Apr. 3.
Anderson, Wilson D., Bremerton, Wash. Vending device. 1,450,830; Apr. 3.
Andrew, Joseph (See Andrew, Richard E., assignor.)
Andrew, Richard E., assignor of one-half to J. Andrew, Philadelphia, Pa. Trolley crossing. 1,450,276; Apr. 3.
Andrews, Frederick A., Pequannock, N. J., assignor to The Esmond Mills, New York, N. Y. Blanket or similar article. Des. 62,161; Apr. 3.
Andrews, Frederick A., Pequannock, N. J., assignor to The Esmond Mills, New York, N. Y. Blanket or similar article. Des. 62,162; Apr. 3.
Ansbacher Motorenfabrik Karl Bachmann Aktiengesellschaft. (See Kreisale, Hermann O., assignor.)
Armentrout, Luther E., Borderland, W. Va. Trolley and feed wire clamp. 1,450,347; Apr. 3.
Arthur, George T., assignor to The Holt Manufacturing Company, Stockton, Calif. Track link. 1,450,478; Apr. 3.
Arthur Trading Corporation. (See Hennech, Arthur B., assignor.)
Atlas Powder Company. (See Hazeltine, Walter E., assignor.)
Atwood, Leonard, Boston, Mass. Variable tractor wheel. 1,450,626; Apr. 3.
Atwood, Walter H., Walden, N. Y. Tie presser. 1,450,831; Apr. 3.
Audianne, Paul, assignor to Etablissents Kuhlmann, Paris, France. Apparatus for the manufacture of sulphuric anhydride. 1,450,661; Apr. 3.
Ayers, Dee, and H. D. Fossett, Mount Vernon, Mo. Animal poke. 1,450,237; Apr. 3.
Ayers, Dee, and H. D. Fossett, Mount Vernon, Mo. Churn. 1,450,238; Apr. 3.
Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Skin-drying boards. 1,450,782; Apr. 3.
Bahls, Otto, assignor to O. B. Electric Vehicles, Inc., Long Island City, N. Y. Reversing and control switch. 1,450,572; Apr. 3.
Bailey, Joseph O., Atlanta, Ga. Riveting machine. 1,450,198; Apr. 3.
Baker, Louis E., assignor of one-fourth to A. J. Martin, one-fourth to J. H. Brock, and one-fourth to A. E. Harroun, Blum, Tex. Insect and worm catcher. 1,450,538; Apr. 3.
Bannister, Bryant, Pittsburgh, Pa. Pressure regulator. 1,450,783; Apr. 3.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. 1,450,573; Apr. 3.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. 1,450,574; Apr. 3.
Barber, James T., Brooklyn, N. Y. Latch device for skid chains and the like. 1,450,190; Apr. 3.
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Sundae dish and manufacture. 1,450,832; Apr. 3.
Barnes, James, New Kensington, Pa. Building block. 1,450,784; Apr. 3.
Bartels, Louis E. (See Neunaber, J. F., and Bartels.)
Barton, Robert W., Chicago, Ill. Method of and means for the production and use of steam. 1,450,405; Apr. 3.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,450,164; Apr. 3.
Batts, John T., Grand Rapids, Mich. Packing and shipping case for garments. 1,450,708; Apr. 3.

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Column or support for rock drills. 1,450,709; Apr. 3.
Bayley, Harry P. (See Ross, Mark A., assignor.)
Baylis, Harry R., Seattle, Wash. Hairpin. 1,450,785; Apr. 3.
Beans, John F., Canton, assignor to The Beans Spring Company. Massillon, Ohio. Automobile bumper. 1,450,165; Apr. 3.
Beans Spring Company, The (See Beans, John F., assignor.)
Bear & Wilde Company, The. (See Wilde, Eben F., assignor.)
Bechtold, William S., Newark, N. J. Hairpin. 1,450,239; Apr. 3.
Becker, Joseph, Houston, Tex. Cabinet. 1,450,575; Apr. 3.
Beckley-Ralston Co., The. (See Rector, Harlan S., assignor.)
Beckwith, Henry C., assignor to The John F. Byers Machine Company, Ravenna, Ohio. Hoisting machine. 1,450,882; Apr. 3.
Beddingfield, John A., Fort Valley, Ga. Automobile tire rim. 1,450,786; Apr. 3.
Bedingfield, John A., Fort Valley, Ga. Automobile tire rim. 1,450,787; Apr. 3.
Beebe, Charles S., Tomahawk, Wis. Sled. 1,450,424; Apr. 3.
Beede, Herbert G., Pawtucket, R. I. Ring twisting or spinning device. 1,450,348; Apr. 3.
Beers, William H., Portland, Oreg. Pipe-bending machine. 1,450,317; Apr. 3.
Beierbach, Hans, Mannheim, Germany. Building unit. 1,450,240; Apr. 3.
Beiding, Warren S., Phillipsburg Borough, Pa. Telescope rifle sight. 1,450,349; Apr. 3.
Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Universal joint. 1,450,350; Apr. 3.
Bell, Willard J., Newaygo, Mich. Sifting-testing machine. 1,450,166; Apr. 3.
Bellows, Warren S., assignor to Walden-Worcester, Inc., Worcester, Mass. Valve-grinding tool. 1,450,788; Apr. 3.
Beloyt Corporation, The. (See Bell, Harvey W., assignor.)
Bender, Frederic H., assignor to American Steel Foundries, Chicago, Ill. Drawbar yoke. 1,450,167; Apr. 3.
Bender, Lonnie S., Kansas City, Mo. Cream lifter. 1,450,789; Apr. 3.
Benedict, Edward. (See Reynolds, Arthur W., assignor.)
Bennett, Albert J., Chicago, Ill. Comb cleaner. 1,450,576; Apr. 3.
Bennett, James C., Detroit, Mich. Combined primer and gas-saving device. 1,450,883; Apr. 3.
Bentley, Jetson O., Schenectady, N. Y. Incense burner. 1,450,790; Apr. 3.
Beran, Albert, Hirschwang, Austria. Rolling mill for manufacturing corrugated pasteboard, sheet metal, and the like. 1,450,351; Apr. 3.
Bergeon, Paul, Grenoble, France. Steam-heating appliance. 1,450,833; Apr. 3.
Bergmann, Theodor, Gaggenau, Germany. Machine pistol. 1,450,834; Apr. 3.
Bethke, Walter, Walburg, Tex. Instrument board and engine brace. 1,450,791; Apr. 3.
Beyer, Emil, Newark, N. J. Implement for removing jar tops. 1,450,168; Apr. 3.
Bienenstok, Edgar A., assignor to Milwaukee Tank Works, Milwaukee, Wis. Portable liquid pump for oil containers. 1,450,406; Apr. 3.
Biggs, John M., Helena, Ark. Attachment for furniture. 1,450,662; Apr. 3.
Biggs, Joseph F., Richmond, Va. Amplifier for talking machines. 1,450,241; Apr. 3.
Billings, John R., jr., Durham, N. C. Grain door. 1,450,792; Apr. 3.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Protection of alternating-current-distributing circuits. 1,450,425; Apr. 3.
Bishop, Newton J., Washington, D. C. Curtain holder. 1,450,539; Apr. 3.
Blair, Lones, Oakland, Calif. Yarn holder. 1,450,835; Apr. 3.
Blalock, Joseph E., Salisbury, N. C. Car-door fastener. 1,450,242; Apr. 3.
Blaw-Knox Company. (See Brynoldt, Christian, assignor.)
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Desk-stand base. 1,450,169; Apr. 3.
Böhme, Kurt, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Selecting switch for use in telephone systems. 1,450,352; Apr. 3.
Bond, James W., assignor of one-half to W. J. Taylor, Columbia, S. C. Brace for radius rods. 1,450,426; Apr. 3.
Boner, Hans, Maduleio, Switzerland. Saw for sawing trees. 1,450,540; Apr. 3.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,450,243; Apr. 3.
Bosworth, Alfred W., Boston, Mass. Powdered modified-milk substitute. 1,450,836; Apr. 3.
Bourgon, Joseph H., Detroit, Mich., assignor to Studebaker Corporation. Hub cap. Des. 62,163; Apr. 3.
Bradford, Charles M., Boston, and D. W. Bunker, Brookline, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,450,407; Apr. 3.
Bradshaw, Richard. (See Whittaker, J., Bradshaw, and Briggs.)
Brandenberger, Jaques E., assignor to La Societe La Cellophane, Siège Social, Paris, France. Photographic film with a carrier permeable to water. 1,450,479; Apr. 3.
Brasher, Albert. (See Leimberger, E. L., and Brasher.)
Breyer, Frank G. (See Singmaster, J. A., and Breyer.)
Briggs, Joseph, deceased. (See Whittaker, J., Bradshaw, and Briggs.)
Briggs, Millison, administratrix. (See Whittaker, J., Bradshaw, and Briggs.)
Brock, J. H., et al. (See Baker, Louis E., assignor.)
Brodner, John, Seattle, Wash. Automatic feeder. 1,450,710; Apr. 3.
Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing the edges of perforations. 1,450,244; Apr. 3.
Brooks, Charles, Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Preserving apples. 1,450,408; Apr. 3.
Brown, Dock W., et. al. (See Goodwin, Adolphus D., assignor.)
Brown, Edmund N., and A. M. Lambert, San Francisco, Calif., assignors to Majestic Electric Development Company. Waffle and hot-cake iron. 1,450,277; Apr. 3.
Browne, Albred L., East Orange, N. J. Elastic-fluid-controlling device. 1,450,245; Apr. 3.
Bruninga, John H., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo. Making piston rings. 1,450,200; Apr. 3.
Brynoldt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for constructing tunnels and the like. 7,450,577; Apr. 3.
Bucher, William W., Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis. Automatic power-unit control. 1,450,793; Apr. 3.
Buck, James W., New York, N. Y. Mechanical bird. 1,450,480; Apr. 3.
Buckeye Iron & Brass Works. (See Sheppard, Orlando, jr., assignor.)
Budd, Edward G., Manufacturing Company. (See Clay, William H., assignor.)
Bugbee, Lucian W., assignor to Franklin Optical Company, Indianapolis, Ind. Making a fused bifocal. 1,450,711; Apr. 3.
Bunker, Darius W. (See Bradford, C. M., and Bunker.)
Burckhardt, Rodolphe W., Mulhouse, France. Means for insuring complete combustion of coal in heating boilers. 1,450,201; Apr. 3.
Burditt, William F., jr. (See Jacobus, M. E., and Burditt.)
Burke & James, Inc. (See Davis, Ernest W., assignor.)
Burnham, George A., Saugus, assignor to S. B. Condit, jr., Brookline, Mass. Short-time-limit switch. 1,450,768; Apr. 3.
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Heated mold for plastic material. 1,450,481; Apr. 3.
Bursheim, Eilert J., Sperling, Manitoba, Canada. Tractor. 1,450,837; Apr. 3.
Burt, F. N., Company. (See Holly, Carlos, assignor.)
Burton, Thomas L. (See Ingersoll, H. L., and Burton.)
Bussac, Georges A., Paris, France. Steam generator. 1,450,838; Apr. 3.
Buzzo, Joseph T. (See Reese, C. C., Buzzo, and Woodford.)
Byers, John F., Machine Company, The. (See Beckwith, Henry C., assignor.)
Cady, Walter G., Middletown, Conn. Piezo-electric resonator. 1,450,246; Apr. 3.
Cady, Walter H., Boston, Mass. Making prepared roofing. 1,450,712; Apr. 3.
Campbell, Sterling H. (See Viberg, Ernest R., assignor.)
Cannard, William H., and G. A. Shaffer, Green Bay, Wis., assignors to said Cannard. Recording mechanism and dissemination method. 1,450,427; Apr 3.
Carey, Lawrence F., Philadelphia, Pa. Receptacle stand 1,450,713; Apr. 3.
Carpenter, Chester E., Aberdeen, S. Dak. Attachment for bens. 1,450,247; Apr. 3.
Carr, Melvin K., Bremerton, Wash. Coupling for railway cars. 1,450,248; Apr. 3.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,450,714; Apr. 3.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,450,715; Apr. 3.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,450,716; Apr. 3.
Carson, Henry A., St. Joseph, Mo. Resilient tire. 1,450,473; Apr. 3.
Cary, George W., Greenfield, Mass. Valve-spring compressor. 1,450,578; Apr. 3.
Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Tension oil cap for fishing reels. 1,450,738; Apr. 3.
Case, Leona M. (See Weber, Leona M.)

Casey, William, Tulsa, Okla. Fishing tool. 1,450,541; Apr. 3.
Cave, Henry, Hartford, Conn. Novelty attachment for vehicles. 1,450,278; Apr. 3.
Chandler, David G., Racine, Wis. Vulcanizer. 1,450,794; Apr. 3.
Chapman, Samuel, Cleveland, Ohio. Window seating attachment. 1,450,353; Apr. 3.
Chappell, John M., and R. E. Edmondson, Thornton, Tex. Jack support. 1,450,482; Apr. 3.
Chautauqua Hygienic Institute, Inc. (See Wood, Sidney C., assignor.)
Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor controller. 1,450,808; Apr. 3.
Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Switch. 1,450,809; Apr. 3.
Chick, William C., Boston, Mass. Shaker. 1,450,279; Apr. 3.
Chickering, Horace G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphur burner. 1,450,677; Apr. 3.
Chidlow, David, Ridgefield, Conn., assignor to J. F. Strachan and W. S. Strachan, Montreal, Canada. Making bread. 1,450,483; Apr. 3.
Childs, Wallace, Kansas City, Mo. Vehicle wheel. 1,450,484; Apr. 3.
Childs, William L., assignor to Hughes Tool Company, Houston, Tex. Backout device for drilling rigs. 1,450,249; Apr. 3.
Chilowsky, Constantin, Paris, France. Projectile. 1,450,579; Apr. 3.
Christman, Matthias, Springfield, Mo. Valve. 1,450,663; Apr. 3.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet feeding machine. Re15,573; Apr. 3.
Cirac, Charles P., Fallon, Nev. Reverse-movement control for driving and driven elements. 1,450,409; Apr. 3.
Cite, Joseph D. (See McElroy, R. H., Cite, and Langenkamp.)
Clark, Ezra E., Newtonville, Mass. Dry-pipe valve. 1,450,428; Apr. 3.
Clark, George M., Charleston, W. Va. Spike puller. 1,450,664; Apr. 3.
Clarke, John. (See McElroy, W. J., and Clarke.)
Clarke, Peter J., Chicago, Ill. Pneumatic-tire casing. 1,450,170; Apr. 3.
Clay, William H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Transfer mechanism for conveyers. 1,450,354; Apr. 3.
Cochran, Ralf S. (See Marsh, H. S., and Cochran.)
Cohen, Myer, Revere, Mass. Coin-controlled lock. 1,450,355; Apr. 3.
Cole, Don, assignor of one-half to J. A. Dienner, Chicago, Ill. Internal-combustion engine, method of and means for feeding the same. 1,450,250; Apr. 3.
Comfort Safety Razor and Novelty Co. Inc. (See Kulhawy, Ferdinand, assignor.)
Commonwealth Steel Company. (See Sheehan, William M., assignor.)
Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)
Condit, Sears B., jr. (See Burnham, George A., assignor.)
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Combined candlestick and flower vase. 1,450,429; Apr. 3.
Cornell, Fred W., St. Joseph, Mo. Safety head and track for traveling ladders. 1,450,430; Apr. 3.
Costmeter Company. (See Quigley, John T., assignor.)
Cote, Omer E., Pawtucket, R. I. Winding mandrel. 1,450,717; Apr. 3.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Courteen, Henry, Sunbury-on-Thames, England. Oil lamp. 1,450,580; Apr. 3.
Courtois-Suffit, Roger, Paris, France. Landing indicator for aircraft. 1,450,431; Apr. 3.
Cousins, Benjamin, Slick, Okla. Cementing dumper. 1,450,485; Apr. 3.
Cox, David C., Pittsfield, Mass. Indicator. 1,450,410; Apr. 3.
Cox, Oscar L., Memphis, Mo. Gate. 1,450,486; Apr. 3.
Coy, Earnest V., Excelsior Springs, Mo. Vehicle theft-preventing device. 1,450,411; Apr. 3.
Craig, Robert, assignor to International Scale Company, Dayton, Ohio. Scale. 1,450,487; Apr. 3.
Cramer, Albert N., Columbus, Ohio. Cap sterilizer and can-centering plate for can-sealing machines. 1,450,856; Apr. 3.
Crandell, Willis S., Elsmere, N. Y. Paper-making machine. 1,450,488; Apr. 3.
Crosby, Raymond A., Holyoke, Colo. Tire-deflation signal. 1,450,760; Apr. 3.
Cross, James W., Surbiton, England. Fluid-pressure-braking apparatus. 1,450,432; Apr. 3.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Arm for lighting fixtures. Des. 62,184; Apr. 3.
Crowley, John W., jr., Chicago, Ill. Clutch. 1,450,202; Apr. 3.
Crozier, Arthur R., El Paso, Tex. Coupling. 1,450,665; Apr. 3.
Cruse, Henry, Hyde, England. Vertical steam-generator furnace. 1,450,389; Apr. 3.
Culley, Alfred E., Burton-upon-Trent, England. Abrading machine. 1,450,251; Apr. 3.
Curran, Edward T., Detroit, Mich. Priming device. 1,450,490; Apr. 3.
Curtis, Earl W., Fort Madison, Iowa. Crosscut sawing machine. 1,450,357; Apr. 3.
Cusick, Roy, Carnegie, Pa. Vending machine. 1,450,839; Apr. 3.
Cuthbert, Robert F., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Box for garments. 1,450,171; Apr. 3.
Cutler-Hammer Mfg. Co., The. (See Taylor, Herman J., assignor.)
Cutting, George B., Worcester, Mass. Protector for rail ties. 1,450,280; Apr. 3.
Dahl, Thure E., New York, N. Y. Ceiling fixture for lighting fixtures. Des. 62,185; Apr. 3.
Dahl, Thure E., New York, N. Y. Ring for lighting fixtures. Des. 62,186; Apr. 5.
Damon, Murray C., Leominster, Mass., assignor to The Hairlight Company. Hair roll or puff. 1,450,491; Apr. 3.
Darnley, Percy H., assignor of one-half to B. Richards, London, England. Typewriter. 1,450,627; Apr. 3.
Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft rigging. 1,450,358; Apr. 3.
Daulton, Benjamin H., and C. B. Robinson, assignors to The Irwin Auger Bit Company, Wilmington, Ohio. Mechanism for manufacture of auger bits. 1,450,252; Apr. 3.
Davis, David L., Norwalk, Conn. Headlight. 1,450,581; Apr. 3.
Davis, Ernest W., assignor to Burke & James, Inc., Chicago, Ill. Motion-picture camera. 1,450,433; Apr. 3.
Davis, Norman C. (See Fisher, H. W., and Davis.)
De Brown, Peter, Bay City, Mich. Screw driver. 1,450,203; Apr. 3.
Decker, Sharp, Commodore, Pa. Explosive cartridge. 1,450,666; Apr. 3.
Deere and Company. (See Sklovsky, Max, assignor.)
Deming, Barton R. (See Yates, W. G., and Fatscher, assignors.)
De Simone, Michele G., Stapleton, assignor to G. B. Agnew, New York, N. Y. Calculating machine. 1,450,718; Apr. 3.
Det Tekniske Forsøgsaktieselskab. (See Goldschmidt, Rudolf, assignor.)
Dewald, Edward, jr. (See Dewald, Edward, sr., assignor.)
Dewald, Edward, sr., assignor of one-half to E. Dewald, jr., Cincinnati, Ohio. Swivel-plug connector. 1,450,172; Apr. 3.
Dexter Folder Company. (See Christophel, Carl E., assignor.)
Dick, Samuel M., Minneapolis, Minn. Dehydrating apparatus. 1,450,840; Apr. 3.
Dickbert, William, deceased, Evansville, Ind.; J. F. Pfeiffer, administrator. Signal for railway crossings. 1,450,841; Apr. 3.
Dickinson, Frederick S., New York, N. Y. Vehicle tire. Des. 62,164; Apr. 3.
Dienner, John A. (See Cole, Don, assignor.)
Decampo, Ricardo, Buenos Aires, Argentina. Mouthpiece for smoking tobacco. 1,450,359; Apr. 3.
Doerfler, Otto H., Omaha, Nebr. Serving apparatus. 1,450,434; Apr. 3.
Dohe, Russell C., Okeene, Okla. Film-repair tool. 1,450,795; Apr. 3.
Doig, William S., Inc. (See Macdonald, Charles A., assignor.)
Domestic Electric Company, The. (See Mace, Arthur T., assignor.)
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Co., Inc., New York, N. Y. Prismatic glass globe. Des. 62,187; Apr. 3.
Dorn, Henry C., Milwaukee, Wis. Composition board. 1,450,582; Apr. 3.
Douglas, Harry A., Bronson, Mich. Switching device. 1,450,253; Apr. 3.
Douglass, Leon F., San Rafael, Calif. Making a colored photographic image. 1,450,412; Apr. 3.
Drake, Joseph E., Blue Rapids, Kans. Grain-car door. 1,450,842; Apr. 3.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper, Thomas B., Toronto, Ontario, Canada. Spring and mattress supporting means. 1,450,204; Apr. 3.
Drensike, Otto B., San Francisco, Calif. Sliding and reversing window. 1,450,281; Apr. 3.
Drynan, Thomas H., Sewickley, Pa. Water-heating system. 1,450,796; Apr. 3.
Dunlop Rubber Company, The. (See Paull, Wallace H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Chickering, Horace G., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gibbs, Harry D., assignor.)
Du Pont, E. I., de Nemours and Company. (See Stine, Charles M., assignor.)
Dvorak, John, Cedar Rapids, Iowa. Bacon-stringing machine. 1,450,667; Apr. 3.
Dyrssen, Waldemar, New York, N. Y. Apparatus for moving furnace electrodes. 1,450,668; Apr. 3.

E. & J. Bass, Incorporated. (See Negbaur, Harry, assignor.)
Eads, Harry B., Port Arthur, Tex., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Automatic valve and rim. Re15,568; Apr. 3.
Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
Easton & Burnham Company. (See Easton, Fred W., assignor.)
Easton, Fred W., assignor to Easton & Burnham Company, Pawtucket, R. I. Yarn and thread guide. 1,450,205; Apr. 3.
Edmondson, Robert E. (See Chappell, J. M., and Edmondson.)
Edmundson, Herbert W., and W. T. Munro, Rugby, England, assignors to General Electric Company. Vacuum electric discharge device. 1,450,413; Apr. 3.
Effertz, Edward P., Winona, Minn. Self-computing level rod. 1,450,360; Apr. 3.
Elard, Francois E. M., Lerallois-Perret, France. Divisible and adjustable bridge or crane for lifting, carrying, or sustaining loads. 1,450,492; Apr. 3.
Elch, Albert A., Richmond, Minn. Pulverizer and quack-grass destroyer. 1,450,118; Apr. 3.
Ekstrom, Eric S., et al. (See Anderson, Carl L., assignor.)
Ekstrom, Eric S., et al. (See Faust, Levin, assignor.)
Elliott-Fisher Company, The. (See Richter, Emannel, assignor.)
Elliott, James P., deceased. Chicago, Ill.; M. B. Elliott, executrix. Material for phonograph-record blanks and making the same. 1,450,739; Apr. 3.
Elliott, Mary B., executrix. (See Elliott, James P.)
Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Ketone body and making same. 1,450,493; Apr. 3.
Enfield, William H., Osage, Iowa. Automatic gate for railway crossings. 1,450,797; Apr. 3.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Epstein, Eli, Dorchester, Mass., assignor to L. M. Starr, New York, N. Y. Impact-producing implement. 1,450,435; Apr. 3.
Esmond Mills, The. (See Andrews, Frederick A., assignor.)
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Balancing arrangement for multiplex carrier circuits. 1,450,254; Apr. 3.
Eszto, Joseph, Halfway, Mich. Lubricating device for saws. 1,450,884; Apr. 3.
Etablissents Kuhlmann. See Audianne, Paul, assignor.)
Eummelen, Henry, Santa Ana, Calif. Watering trough. 1,450,494; Apr. 3.
Ever Ready Auto Signal Co. (See Trinca, F., and Wolf, assignors.)
Evr Klean Seat Pad Co. (See Reece, John, assignor.)
Evr-Klean Seat Pad Co. See Reece, John, assignor.)
Fankboner, Harland. (See Walser, J. J., and Fankboner.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Thauss, A., and Günther, assignors.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Weyland, Hermann, assignor.)
Farmers' Loan and Trust Company, The, executors. (See Pierce, George W.)
Fatscher, George C. (See Yates, W. G., and Fatscher.)
Faust, Levin, assignor of one-fourth to C. E. Swenson, one-fourth to E. S. Ekstrom, and one-fourth to C. L. Anderson, Rockford, Ill. Universal joint. 1,450,719; Apr. 3.
Faust, Levin, et al. (See Anderson, Carl L., assignor.)
Faust, Roy C., Deary, Idaho. Rotary toothbrush. 1,450,542; Apr. 3.
Federal Malleable Company. (See MacNeill, William J., assignor.)
Ferguson, David W., Harrold, S. Dak. Trace holder. 1,450,495; Apr. 3.
Ferguson, William E., Louisville, Ky. Rivet holder. 1,450,414; Apr. 3.
Ferry, Thomas, Cleveland, Ohio. Fastening device. 1,450,583; Apr. 3.
Filipowski, Wladyslav, Chicago, Ill. Fishhook. 1,450,798; Apr. 3.
Findlay, Robert, Manufacturing Company. (See Smith, Curtis A., assignor.)
Firestone Tire and Rubber Company. (See Goodenberger, Daniel E., assignor.)
Fisher, Henry W., and N. C. Davis, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa. Cable-building machine. 1,450,584; Apr. 3.
Fisher, Raymond, assignor of one-half to O. W. Weisel, Philadelphia, Pa. Take-up mechanism for knitting machines. 1,450,799; Apr. 3.
Fisk, Carl A., New York, N. Y. Nonpneumatic tire. 1,450,843; Apr. 3.
Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fitton, John R., Woonsocket, R. I. Pencil. 1,450,436; Apr. 3.
Flannery, John M., Detroit, Mich. Carburetor. 1,450,628; Apr. 3.
Fleming, John L., Peoria, Ill. Plumbing apparatus. 1,450,844; Apr. 3.
Flint Electric and Manufacturing Company, The. (See Yont, Charles A., assignor.)
Flournoy, James P., jr., Shreveport, La. Drill bit and collar therefor. 1,450,845; Apr. 3.
Floyd, George G., Riverside, Ill., assignor to W. H. Miner, Chazy, N. Y. Manufacturing draft-rigging yokes. 1,450,361; Apr. 3.
Flues, Emil F., Buffalo, N. Y. Single-barrel firearm of the breakdown type. 1,450,496; Apr. 3.
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Range and bearing keeper. 1,450,585; Apr. 3.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Foresman, Robert A., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker. 1,450,586; Apr. 3.
Fossett, Hal D. (See Ayers, D., and Fossett.)
Fox, Eston F., Williamsport, Md. Toy. 1,450,282; Apr. 3.
Fowler, Claude F. (See Lalle, P. A., and Fowler.)
Franklin Optical Company. (See Bugbee, Lucian W., assignor.)
Frazier, Truman D., Martins Ferry, Ohio. Pneumatic tire. 1,450,800; Apr. 3.
Fredericksen, Clayton E. (See McGuire, Michael H., assignor.)
French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,450,415; Apr. 3.
Freshour, Thomas C., and B. M. Jennings, Troy, Ohio. Garment-form supporter. 1,450,416; Apr. 3.
Frick, Phillip S., and C. E. Robinson, Oswego, Kans. Sanitary self-cleaning filter. 1,450,770; Apr. 3.
Frickey, Edward H., St. Louis, Mo. Adjustable multiple disk and shredding hammer. 1,450,173; Apr. 3.
Friedman, Louis, New York, N. Y. Lock. 1,450,206; Apr. 3.
Frisbie, Arthur N., Utica, N. Y. Internal-combustion engine. 1,450,801; Apr. 3.
Frost, Frederic A., West Newton, Mass. Implement for opening and sealing jars. 1,450,587; Apr. 3.
Frye, Fred A., Azusa, Calif. Device for supporting utensils over camp fires. 1,450,802; Apr. 3.
Frye, William A. (See Keddy, Clifford L., assignor.)
Fuller, Boyd H., Detroit, Mich. Key fastener. 1,450,588; Apr. 3.
Gaken, Jozef F., assignor of one-third to L. Kuzdial, Dunkirk, N. Y. Window fire escape. 1,450,207; Apr. 3.
Gallon Iron Works & Mfg. Co., The. (See Jones, Henry D., assignor.)
Galizia, Frank, Farrell, Pa. Sanitary seat. 1,450,283; Apr. 3.
Gaschott, Conrad. (See Terhune, Richard A., assignor.)
Gassman, Howard M., Birmingham, Ala. Load-regulating means. 1,450,720; Apr. 3.
Gaudin, Oneil B., Laurel, Miss. Hand car. 1,450,846; Apr. 3.
Gaunt, Charles F., Birmingham, England. Holder for badges, buttons, and the like. 1,450,721; Apr. 3.
Gaunt, Charles F., Birmingham, England. Medal-ribbon mount. 1,450,722; Apr. 3.
Geiger, Charles M., Denver, Colo. Combined radiator, steam cooker, and warming oven. 1,450,847; Apr. 3.
General Electric Company. (See Edmundson, H. W., and Munro, assignors.)
General Electric Company. (See French, Henry G., assignor.)
General Electric Company. (See Perham, Charles F., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
Gerl, Frank F., Milwaukee, Wis. Guitar. Des. 62,165; Apr. 3.
Gerrard, Alec. J. (See Wood, George, assignor.)
Geto, Max M., Brooklyn, assignor to Watch Protector Corporation, New York, N. Y. Watch protector. 1,450,848; Apr. 3.
Gibbs, Harry D., Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing phthalimids. 1,450,678; Apr. 3.
Gilinson, Philip, assignor to B. Ames, Lowell, Mass. Electric coil. 1,450,362; Apr. 3.
Gillespie, Alexander, Pittsfield, Ill. Device and process for feeding roller mills. 1,450,723; Apr. 3.
Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
Gillette Safety Razor Company. (See Thompson, Ralph E., assignor.)
Gilpin, Garth G., Riverside, assignor to W. P. Murphy, Chicago, Ill. Sheet-metal end for railway cars. 1,450,255; Apr. 3.
Gingerick, Kent S., Urbana, assignor to R. T. Parrish, Dayton, Ohio. Plow-depth adjusting device. 1,450,417; Apr. 3.
Glenn, Samuel, Detroit, Mich. Garbage receptacle. 1,450,363; Apr. 3.
Glisson, William B., Rutherford, Tenn. Ventilation system. 1,450,771; Apr. 3.

Globe Paper Box Company. (See Schwenneke, Hans, assignor.)
Goff, Hobart. (See Walker, W. H., and Goff.)
Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordrup, Charlottenlund, Denmark. Flexible shafting. 1,450,284; Apr. 3.
Goldsmith, Walter A., Cleveland, Ohio. Bloomers. 1,450,437; Apr. 3.
Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Process and apparatus for the manufacture of solid tires. 1,450,256; Apr. 3.
Goodwin, Adolphus D., assignor of thirty per cent to D. W. Brown, East Durham, and thirty per cent to D. W. Sorrell, Durham, N. C. Railway-crossing gate. 1,450,285; Apr. 3.
Goss Printing Press Company. (See Walser, J. J., and Fankboner, assignors.)
Graff, George, New York, N. Y., and W. A. Kennedy, Leonia, N. J., assignors to Graff Washburne & Dunn. Combined heating and cooling device. 1,450,589; Apr. 3.
Graff, Joseph F., Milwaukee, Wis. Scaffold bracket. 1,450,286; Apr. 3.
Graff Washburne & Dunn. (See Graff, G., and Kennedy, assignors.)
Grande, Nicholas, New York, N. Y. Milk-bottle receptacle. 1,450,772; Apr. 3.
Granichstadten, Albert, and E. Sittig, Vienna, Austria. Nickeliferous catalyzers and manufacturing the same. 1,450,174; Apr. 3.
Grant, Fred C., Sangerville, Me. Hard grease cup. 1,450,773; Apr. 3.
Graser, Harry. (See Jackson, John C., assignor.)
Gray, Joseph M., assignor of one-third to J. M. Robertson and one-third to M. P. Pferrer, Brownstown, Ind. End gate. 1,450,364; Apr. 3.
Gray, Joseph M., assignor of one-third to J. M. Robertson and one-third to M. P. Pferrer, Brownstown, Ind. End-gate latch. 1,450,365; Apr. 3.
Gray, William, Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Glass-drawing apparatus. 1,450,590; Apr. 3.
Grafenstatt, Emil S., Los Angeles, Calif. Hydraulic clutch. 1,450,679; Apr. 3.
Green, Charles, assignor of one-fourth to E. F. Richman and one-fourth to C. J. Richman, Muscatine, Iowa. Hammer. 1,450,849; Apr. 3.
Green, William F., Houston, Tex. Coupling yoke. 1,450,591; Apr. 3.
Greenburg, Meyer, Kearney, N. J. Shaving-brush holder. Des. 62,166; Apr. 3.
Greene, Grover C., T. O. Tune, and R. E. Stamps, Nashville, Tenn. Self-serving store. 1,450,803; Apr. 3.
Gress, Calvin. (See Holtz, G., and Gress.)
Griffin, Henry F. (See Ott, W. D., and Griffin.)
Griffith, Thomas H., Cincinnati, Ohio. Bed. 1,450,497; Apr. 3.
Grigg, Lilly S., Long Beach, Calif. Drainer for sinks. 1,450,629; Apr. 3.
Grip, Martin A., Chippewa Falls, Wis. Changeable exhibitor. 1,450,850; Apr. 3.
Groner, Leo N., St. Thomas, Mo. Lace cutter. 1,450,498; Apr. 3.
Grönwall, Eugen A. A., Stockholm, Sweden. Method and device for the heating of material in electric furnaces. 1,450,543; Apr. 3.
Gross, Henry D., Kennett, Mo. Furnace stoker. 1,450,851; Apr. 3.
Gross, William B., Oxnard, Calif. Clutch. 1,450,804; Apr. 3.
Guazzoni, Alberto, Rome, Italy. Cycle stand and brush holder. 1,450,680; Apr. 3.
Gnenther, Henry L., Los Angeles, Calif. Seaming head for can machinery. 1,450,418; Apr. 3.
Gunn, James N., New York, N. Y., assignor to Morgan & Wright. Tire tread. Des. 62,167; Apr. 3.
Gunn, James N., New York, N. Y., assignor to Morgan & Wright. Tire tread. Des. 62,168; Apr. 3.
Günther, Alfred. (See Thauss, A., and Günther.)
Guynes, John W., Calvert, Tex. Lint-cleaning attachment for cotton gins. 1,450,592; Apr. 3.
Hadsell, Darwin G., Kansas City, Mo. Reversible handle socket. 1,450,438; Apr. 3.
Haering, Joseph, Louisville, Ky. Cow-tail holder. 1,450,774. Apr. 3.
Hager, Albert R., Manila, P. I. Game-scoring device. 1,450,852; Apr. 3.
Hahnemann, Walter, Kitzeberg, near Kiel, assignor to the Firm Signal Gesellschaft, m. b. H., Kiel, Germany. Submarine signaling apparatus. 1,450,287; Apr. 3.
Hairlight Company, The. (See Damon, Murray C., assignor.)
Haller, Herbert L. J. (See Williams, R. R., and Haller.)
Hamlin-Holmes Motor Company. (See Holmes, Edgar R., assignor.)
Hamm, William L., Oskaloosa, Iowa. Tire armor. 1,450,288; Apr. 3.
Hanlon & Goodman Company. (See Wright, Ernest B., assignor.)
Hannah, William G., Paterson, N. J. Preparing wound packages from skeins. 1,450,544; Apr. 3.
Hans, Oscar E., Bartlesville, Okla. Apparatus for separating liquids of different densities. 1,450,545; Apr. 3.
Hansen, Joseph, assignor to Marine Specialty Manufacturing Company, Seattle, Wash. Trolling spoon. 1,450,546; Apr. 3.
Hanson, James and R. G., Stafford, England. Rock-drilling apparatus. 1,450,208; Apr. 3.
Hanson, Richard G. (See Hanson, James and R. G.)
Hanson, Richard G. (See Hanson, James and R. G.) 1,450,775; Apr. 3.
Hardaway, Jarder, Pittsburgh, Pa. Game trap. 1,450,775; Apr. 3.
Hardinge, Harry W., New York, N. Y. Apparatus for entraining and removing fines from conical mills. 1,450,289; Apr. 3.
Hardinge, Harry W., New York, N. Y. Oversize return for mills. 1,450,290; Apr. 3.
Harroun, A. E., et al. (See Baker, Louis E., assignor.)
Harris, James, Ponoka, Alberta, Canada. Gate-fastening device. 1,450,630; Apr. 3.
Harris, John P., Lakewood, Ohio. Package for incandescent mantles. 1,450,593; Apr. 3.
Hart-Spratt, Herbert, London, England. Universal joint or coupling. 1,450,805; Apr. 3.
Harvey, Charles W., East Lyme, Conn. Clipping machine. 1,450,499; Apr. 3.
Harvey, Charles W., New London, Conn. Flash light. 1,450,500. Apr. 3.
Hase, Rudolf, Berlin, Germany, assignor, by mesne assignments, to Namlooze Vennootschap Finanzieele Mattschapij "Driebergen," Amsterdam, Netherlands. Recording phonograph. 1,450,439; Apr. 3.
Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. 1,450,366; Apr. 3.
Haubrock, Frank. (See Schwier, William, assignor.)
Hawes, Charlie L., Ashtabula, Ohio. Machine for polishing and grinding. 1,450,853; Apr. 3.
Hays, Fred, Tuckahoe, N. J. Tire tool. 1,450,209; Apr. 3.
Hazelton, John A., Baltimore, Md. Differential gearing. 1,450,210; Apr. 3.
Hazeltine, Walter E., Stamford, Conn., assignor to Atlas Powder Company, Philadelphia, Pa. Decorative fabric and manufacturing same. 1,450,367; Apr. 3.
Heacock, Harley O., Winslow, Ind. Burial vault. 1,450,291; Apr. 3.
Healy, James F., Chicago, Ill. Trolley construction. 1,450,885; Apr. 3.
Hecht, Earl A., Mansfield, Ohio. Tire tread. Des. 62,169; Apr. 3.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Spittoon. 1,450,806; Apr. 3.
Heidbrink, Jay A., Minneapolis, Minn. Dental device for spreading tissues. 1,450,419; Apr. 3.
Heidbrink, Jay A., Minneapolis, Minn. Sensitized-film holder for X-ray photography. 1,450,420; Apr. 3.
Helmerdinger, William G., Louisville, Ky. Ice-cream dipper. 1,450,886; Apr. 3.
Heine, Fritz F., Leipzig, Germany. Elastic ring-shaped holder for small lamps. 1,450,547; Apr. 3.
Helmick, Milton J., and T. L. Agnew, Albuquerque, N. Mex. Resilient wheel. 1,450,740; Apr. 3.
Hennech, Arthur B., assignor to Arthur Trading Corporation, New York, N. Y. Identification device. 1,450,854; Apr. 3.
Henriod, Charles E., Chanelaz, Areuse, Neuchatel, Switzerland. Progressive change-speed gear. 1,450,594; Apr. 3.
Henriod, Charles E., Lausanne, Switzerland. Gradual-change gear. 1,450,595; Apr. 3.
Henry, Ellison D., Houston, Tex. Firearm. 1,450,596; Apr. 3.
Hewitt, Peter C., deceased. (See Pierce, George W., assignor.)
Hewlett, James M., Lawrence, assignor to The Stockade Building System, Inc., New York, N. Y. Wall structure. 1,450,724; Apr. 3.
Hexagon Specialty Manufacturing Company. (See Kirsch, Raymond R., assignor.)
Higgins, James F., assignor to The Rogers-Higgins Co., Inc., New Orleans, La. Burner. 1,450,631; Apr. 3.
Hildreth, James W., assignor of one-half to W. C. Hufford, Marion, Ohio. Flytrap. 1,450,855; Apr. 3.
Hill, Edwin, Norwich, Conn. Billiard-cue-tip chalker. 1,450,741; Apr. 3.
Hilt, Frank E., Lyons, Kans. Egg tray. 1,450,368; Apr. 3.
Hines, Edwin G., Drums, Pa. Tree holder. 1,450,807; Apr. 3.
Hodson, Frank, Philadelphia, Pa. Electrical resistance heating element and making same. 1,450,725; Apr. 3.
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Keyboard screen for typewriters. 1,450,369; Apr. 3.
Holbrook, Charles W., Providence, R. I. Buffer for pickers. 1,450,726; Apr. 3.
Holland Rod Manufacturing Company. (See Mull, Raymond A., assignor.)
Holly, Carlos, Lockport, assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Making boxes and elements thereof. 1,450,681; Apr. 3.
Holmes, Edgar R., Detroit, Mich., assignor to Hamlin-Holmes Motor Company. Motor vehicle. 1,450,292; Apr. 3.

Holophane Glass Co. (See Dorey, William A., assignor.)
Holt Manufacturing Company, The. (See Arthur, George T., assignor.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holthoff, Henry C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roasting furnace. 1,450,900; Apr. 3.
Holtz, Gustav, and C. Gress, Gouldsboro, Pa. Self-centering ice chute and run. 1,450,887; Apr. 3.
Honsinger, William E., Round Lake, N. Y. Poultry feeder. 1,450,175; Apr. 3.
Hopkins, Alfred, assignor to Hopkins Manufacturing Company, Boston, Mass. Suspending element. 1,450,176; Apr. 3.
Hopkins Manufacturing Company. (See Hopkins, Alfred, assignor.)
Horton, Eugene L., San Francisco, Calif. Bucket protector. 1,450,632; Apr. 3.
Houpert, Henri J., Manhannock, N. Y. Internal-combustion-engine piston. 1,450,177; Apr. 3.
Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication means for light signals. 1,450,548; Apr. 3.
Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication means for light signals. 1,450,549; Apr. 3.
Howell, Wesley E., assignor to Whitall-Tatum Company, Millville, N. J. Marking machine. 1,450,776; Apr. 3.
Hudson, George R., Portland, Oreg. Mixer for gas engines. 1,450,550; Apr. 3.
Husdon, Pearl, Burlington, Iowa. Ratchet device for augers. 1,450,440; Apr. 3.
Hudson, Willard W., Shelbyville, Ill. Self-watering flowerpot. 1,450,633; Apr. 3.
Huebner, Julius J., Detroit, Mich. Spring suspension for vehicle bodies. 1,450,370; Apr. 3.
Huenergardt Manufacturing Co. (See Huenergardt, William H., assignor.)
Huenergardt, William H., assignor to Huenergardt Manufacturing Co., Lincoln, Nebr. Washing-machine frame. 1,450,808; Apr. 3.
Huff, Slaughter W., New York, N. Y. Automatically-operated slot cover. 1,450,727; Apr. 3.
Hufford, Ward C. (See Hildreth, James W., assignor.)
Hughes Tool Company. (See Childs, William L., assignor.)
Hull, Charles E., Onaway, Mich. Spark breaker. 1,450,501; Apr. 3.
Hummell, William, et al. (See Snyder, Samuel W., assignor.)
Hummell, William Q., New Philadelphia, Ohio. Artificial bait. 1,450,777; Apr. 3.
Hunt, Chester, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting shoe-part blanks. 1,450,257; Apr. 3.
Hunt, Seth B., trustee. (See Ellis, C., and Wells, assignors.)
Hunt, Seth B., trustee. (See Williams, R. R., and Haller, assignors.)
Hunter, Omer B., Chickasha, Okla. Amusement device. 1,450,624; Apr. 3.
Hurst, Leonard E., and J. F. Miller, Detroit, Mich. Truck conveyer. 1,450,371; Apr. 3.
Hydraulic Pressed Steel Company, The. (See Irish, William E., assignor.)
Illch, Herbert H., New York, N. Y. Attachment shield for automobile windshields. 1,450,551; Apr. 3.
Illemann, Robert, Glasgow, Scotland. Non-conducting material. 1,450,856; Apr. 3.
Illingworth Carbonization Company. (See Illingworth, Stewart R., assignor.)
Illingworth, Stewart, R., Radyr, Glamorgan, Wales, assignor to Illingworth Carbonization Company, Limited, Manchester, England. Coking of coal. 1,450,888; Apr. 3.
Ingersoll, Howard L., White Plains, and T. L. Burton, New York, N. Y. Superheater for locomotives. 1,450,178; Apr. 3.
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
International Scale Company. (See Craig, Robert, assignor.)
Ionite Storage Battery Co. (See Williams, Albert H., assignor.)
Irish, William E., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Fluid-pressure system. 1,450,372; Apr. 3.
Irwin Auger Bit Company, The. (See Daulton, B. H., and Robinson, assignors.)
Isaacs, Bernhardt B., and J. E. Marqua, assignors to The J. E. Marqua Company, Cincinnati, Ohio. Projecting lantern. 1,450,179; Apr. 3.
Jackson, John C., Philadelphia, assignor of one-fourth to H. Graser, Wissahickon, Philadelphia, Pa. Resilient wheel. 1,450,778; Apr. 3.
Jacobus, Martin R., Ridgefield, and W. F. Burditt, jr., Hillside, N. J.; said Burditt assignor to said Jacobus. Collapsible poultry feeder. 1,450,258; Apr. 3.
Jamison, Charles R., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Cabinet construction. 1,450,180; Apr. 3.
Janney, Robert E. L., Chicago, Ill. Transitional coupling arrangement. 1,450,295; Apr. 3.
Jenner, Percy, assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. Des. 62,170; Apr. 3.
Jennings, Bert M. (See Freshour, T. C., and Jennings.)
Jerry, John, Milwaukee, Wis. Welding tool. 1,450,294; Apr. 3.
Johnson, Albert H., Washington, D. C. Closure. 1,450,857; Apr. 3.
Johnson, Arvid L. (See Worna, Benjamin A., assignor.)
Johnson, Charles E. G., Des Moines, Iowa. Pneumatic clutch. 1,450,441; Apr. 3.
Johnson, Everard L., Patchogue, N. Y. Door construction for flashlight apparatus. 1,450,502; Apr. 3.
Johnson, Maxwell O., Waipio, Hawaii. Fruit-peeling machine. 1,450,295; Apr. 3.
Jombart, Félix, assignor to La Société d'Etudes et de Constructions Metallurgiques, Paris, France. Productions of hollow metal castings. 1,450,552; Apr. 3.
Jones, Frank S., Philadelphia, Pa. Straightening press. 1,450,375; Apr. 3.
Jones, Henry D., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Cooling system for motor vehicles. 1,450,442; Apr. 3.
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Kasley, Alexander T., Eslington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Torpedo. 1,450,597; Apr. 3.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition switch. 1,450,728; Apr. 3.
Kavanaugh, Edward W. and M. J., Minneapolis, Minn. Stuffing box and the like. 1,450,421; Apr. 3.
Kavanaugh, Michael J. (See Kavanaugh, Edward W. and M. J.)
Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Slide-actuating mechanism. 1,450,598; Apr. 3.
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Kelly, Irene E., Highland Park, Ill. Combination undergarment for stout women. 1,450,683; Apr. 3.
Kelly, William D., Riverside, Ill. Vehicle spring. 1,450,378; Apr. 3.
Kennedy, William A. (See Graff, G., and Kennedy.)
Killian, Laurence J, Boston, and E. J. Parker, Lynn, Mass. Signaling apparatus for motor vehicles. 1,450,553; Apr. 3.
Kirkpatrick, George W., Rochester, N. Y. Cooling device for power transmission jacks. 1,450,858; Apr. 3.
Kirsch, Raymond R., assignor to Hexagon Specialty Manufacturing Company, St. Louis, Mo. Automobile. 1,450,684; Apr. 3.
Kirschbraun, Lester, Chicago, Ill., assignor to The Raybestos Company, Bridgeport, Conn. Asbestos friction clutch rings. 1,450,319; Apr. 3.
Kirschbraun, Lester, Chicago, Ill. Bituminous emulsion and making same. 1,450,685; Apr. 3.
Klaasse, Arend, Jackson, Mich. Spring. 1,450,686; Apr. 3.
Kohler Company. (See Bucher, William W., assignor.)
Kollberg, Gustaf L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pump. 1,450,901; Apr. 3.
Kopp, Arile E., New Middletown, Ind. Ratchet plate and die. 1,450,211; Apr. 3.
Korn, Joseph, Newark, N. J. Grease-retaining device for hats. 1,450,181; Apr. 3.
Kreissle, Hermann O., assignor to Ansbacher Motorenfabrik Karl Bachmann Aktiengesellschaft, Ansbach, Germany. Trailer. 1,450,554; Apr. 3.
Kriegenhofer, August. (See Twitchell, Herbert E., assignor.)
Kulhawy, Ferdinand, assignor to Comfort Safety Razor and Novelty Co. Inc., West Hoboken, N. J. Safety razor. 1,450,859; Apr. 3.
Kunin, Harry, assignor to Midwest Machinery Products Co., Chicago, Ill. Cooking vessel. 1,450,687; Apr. 3.
Kuttroff Pickhardt & Co. (See Landle, August, assignor.)

Kuzdial, Lawrence. (See Gaken, Josef F., assignor.)
Lacki, Wojciech, Chicago, Ill. Cradle. 1,450,635; Apr. 3.
Laing, Norman B., Detroit, and F. C. Rindfish, Highland Park, Mich. Storage battery. 1,450,589; Apr. 3.
Lalle, Peter A., and C. F. Fowler, assignors of one-third to S. L. Petrino, Buffalo, N. Y. Amusement apparatus. 1,450,069; Apr. 3.
La Mar, Frank C., Pittsburgh, Pa. Indicator for electric fuses. 1,450,670; Apr. 3.
Lamb, George L., Nappanee, Ind. Visor for use with automobiles. 1,450,809; Apr. 3.
Lambert, Alfred M. (See Brown, E. N., and Lambert.)
Lamm, Anthony, Brooklyn, and J. F. Schroeder, Middle Village, N. Y. Roof structure. 1,450,182; Apr. 3.
Landgraf, William F., Washington, D. C. Valve-spring compressor. 1,450,890; Apr. 3.
Lang, Albert B., St. Louis, Mo. Transmission lock for automobiles. 1,450,212; Apr. 3.
Langenkamp, Albert G. (See McElroy, R. H., Cite, and Langenkamp.)
La Pierre, Frank H. (See Winter, Arthur, assignor.)
La Riviere, Mathias J., Waterbury, Conn. Antiskid device. 1,450,779; Apr. 3.
La Société d'Etudes et de Constructions Metallurgiques. (See Jombart, Félix, assignor.)
La Societe La Cellophane, Siège Social. (See Brandenberger, Jaques, E., assignor.)
Latshaw, Adam, Dubois, Pa. Traffic signal. 1,450,636; Apr. 3.
Laufe, Charles, New York, N. Y. Hair-waving comb. 1,450,860; Apr. 3.
Lawrence, John T., Newark, N. J. Paint. 1,450,688; Apr. 3.
Leece, Leicester L., Cleveland, Ohio. Gear shift for motor vehicles. 1,450,745; Apr. 3.
Leeds, Robert R., assignor to The Topping Manufacturing Co., Ashland, Ohio. Carrier for disappearing doors. 1,450,729; Apr. 3.
Lego, Russell C., Beaver Falls, Pa. Double-acting deep-well pump. 1,450,213; Apr. 3.
Leighton, George A., Roslindale, Mass., assignor to American Can Company, New York, N. Y. Friction-top can. 1,450,422; Apr. 3.
Leimberger, Edward L., and A. Brasher, Chicago, Ill. Feeding attachment for power wringers. 1,450,891; Apr. 3.
Lemon, Alfred B., Providence, R. I. Badge. 1,450,689; Apr. 3.
Lencke, John K., Brooklyn, N. Y. Armature. 1,450,599; Apr. 3.
Landle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Paper made from kapok fiber. 1,450,600; Apr. 3.
Leopold, Samuel N., assignor to Morris Paper Mills, Chicago, Ill. Collapsible caddy. 1,450,690; Apr. 3.
Lépine, Charles, Torino, Italy, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Apparatus for direct observation of picture films. 1,450,555; Apr. 3.
Lewis, Harry R., jr. (See Morse, A. C., and Lewis.)
Libbey-Owens Sheet Glass Company, The. (See Allen, Horace E., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Gray, William, assignor.)
Lincoln, Irvin, Lansing, Mich. Resilient wheel. 1,450,671; Apr. 3.
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube manufacture. 1,450,320; Apr. 3.
Locomobile Company, The. (See Roos, Delmar G., assignor.)
Lohr, Michael E., Johnstown, Pa. Mine car. 1,450,637; Apr. 3.
Lonergan, Patrick H., Boulder, Colo. Radiator cores. 1,450,746; Apr. 3.
Long, William N., Springfield, Oreg. Internal-combustion engine. 1,450,810; Apr. 3.
Longnaker, Milton S., Pleasant Hill, Ohio, assignor, by mesne assignments, to J. W. Page, Chicago, Ill. Excavating machine. Re15,571; Apr. 3.
Lovejoy, Ralph M., Meredith, N. H. Shock absorber. 1,450,601; Apr. 3.
Lowe, Edward L., Palo Alto, Calif. Burner for internal-combustion engines. 1,450,691; Apr. 3.
Lucas, Irving V., Muskogee, Okla. Vehicle jack. 1,450,504; Apr. 3.
Lucas, Stephen J., Chicago, Ill. Level attachment for carpenters' squares. 1,450,296; Apr. 3.
Lundell, Alben E., Chicago, Ill., and G. Thompson, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Party-line revertive ringing system. 1,450,321; Apr. 3.
Lunt, George P., New York, N. Y. Drying colloids. 1,450,377; Apr. 3.
McAnally, William R., Fort Dodge, Iowa. Light reflector. 1,450,376; Apr. 3.
McDowell, Joe E., Fort Worth, Tex. Pneumatic stage pump. 1,450,505; Apr. 3.
McElhany, John W., Denver, Colo. Hand-operating extensible fish-landing net and handle. 1,450,322; Apr. 3.
McElroy, Roy H., receiver. (See McElroy, R. H., Cite and Langenkamp, assignors.)
McElroy, Roy H., J. D. Cite, and A. G. Langenkamp, assignors to R. H. McElroy, receiver for The Bahmann Iron Works Co., Dayton, Ohio. Brick and tile machine.
McElroy, William J., New York, and J. Clarke, Manhasset, North Hempstead, N. Y., assignors, by mesne assignments, to Alchemic Gold Company, Inc. Printing ink. 1,450,692; Apr. 3.
McEwan, Hugh, Pittsburgh, Pa., assignor to W. W. Nicoll, New York, N. Y. Safety exploder. 1,450,672; Apr. 3.
McGahey, Robert E., Alexandria, Va. Self-locking angle-cock. 1,450,811; Apr. 3.
McGuire, James E., Camden, N. J. Safety device for tools. 1,450,323; Apr. 3.
McGuire, Lee, Paint Lick, Ky. Electrically operated vehicle signal. 1,450,214; Apr. 3.
McGuire, Michael H., Clifford, assignor of one-half to C. E. Frederickson, St. Joseph, Mich. Portable bathtub with heating appliance. 1,450,444; Apr. 3.
McKeever, William J., Cambridge, Mass. Mop. 1,450,556; Apr. 3.
McKenzie, William S., Creighton Mine, and R. Richardson, Copper Cliff, Ontario, Canada. Lighting accessory for automobiles. 1,450,324; Apr. 3.
McLean, Embury, Brooklyn, N. Y. Furnace control. 1,450,693; Apr. 3.
McNamara, Edward M., Chicago, Ill. Mop holder and wringer. 1,450,673; Apr. 3.
McNary, James E., Chicago, Ill., assignor to J. W. Weeks, Secretary of War of the United States of America. Helmet. 1,450,379; Apr. 3.
McNaughton, John. (See McNaughton, Mabel P. and J.)
McNaughton, Mabel P., and J., New York, N. Y. Mop. 1,450,445; Apr. 3.
Macdonald, Charles A., Cambridge, Mass., assignor to William S. Doig, Inc., Brooklyn, N. Y. Nailer for corrugated fasteners. 1,450,730; Apr. 3.
Mace, Arthur T., assignor to The Domestic Electric Company, Cleveland, Ohio. Driving mechanism for sewing machines. 1,450,602; Apr. 3.
Mack, William H., Oak Grove, La. Saw set. 1,450,812; Apr. 3.
Mackay, Philip A., London, England. Recovering vanadium from its ores. 1,450,507; Apr. 3.
Maclean, Robert S., Chicago, Ill. Building construction. 1,450,731; Apr. 3.
MacNeill, William J., Wauwatosa, assignor to Federal Malleable Company, West Allis, Wis. Molder's press. 1,450,862; Apr. 3.
MacPhee, Dougald, Rivers Inlet, British Columbia, Canada. Fish-cleaning machine. 1,450,508; Apr. 3.
Maegly, George B., Houston, Tex. Pump. 1,450,215; Apr. 3.
Magny, Daniel, Issoudun, France. Installation for the washing and combing of pigs' bristles. 1,450,325; Apr. 3.
Mahoney, Raymond, Philadelphia, Pa. Safety device for ladders. 1,450,694; Apr. 3.
Maitland, Harold T., Sharon Hill, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for treating oils. 1,450,326; Apr. 3.
Majestic Electric Development Company. (See Brown, E. N., and Lambert, assignors.)
Maltby, Julius, assignor to Waterbury Buckle Co., Waterbury, Conn. Strap buckle. 1,450,509; Apr. 3.
Mann, J. A. (See Reed, George E., assignor.)
Manning, Robert M., Hewitt, Okla. Stopcock. 1,450,861; Apr. 3.
Marine Specialty Manufacturing Company. (See Hansen, Joseph, assignor.)
Marks, Herbert E., Sewickley, Pa. Skylight. 1,450,557; Apr. 3.
Marlin Firearms Corporation, The. (See Swebilius, Carl G., assignor.)
Marqua, J. E., Company. (See Isaacs, B. B., and Marqua, assignors.)
Marqua, James E. (See Isaacs, B. B., and Marqua.)
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Method of and apparatus for recovering spent pickling solutions. 1,450,216; Apr. 3.
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Method of and apparatus for reclaiming spent pickling solution. 1,450,217; Apr. 3.
Marshall, Charles J., and F. R. Weaver, assignors to P. B. Yates Machine Company, Beloit, Wis. Milling-machine adjustment and quick release. 1,450,695; Apr. 3.
Marston, Howard F., Dayton, Ohio. Size-reducible box. 1,450,674; Apr. 3.
Martin, A. J., et al. (See Baker, Louis E., assignor.)
Martin, James M., Knoxville, Tenn. Pipe wrench. 1,450,297; Apr. 3.
Mason, William H., Leesburg, Ohio. Wire-fence fastener. 1,450,298; Apr. 3.
Master Carbureter Corporation. (See Summers, Caleb E., assignor.)
Masury-Young Company. (See Keene, Waite W., assignor.)
Mayer, Fred G., assignor to Starr Piano Company, Richmond, Ind. Automatic stop for phonographs. 1,450,299; Apr. 3.
Maze, Charles A. F., dit D. Maze, Paris, France. Gun. 1,450,558; Apr. 3.

Holophane Glass Co. (See Dorey, William A., assignor.)
Holt Manufacturing Company, The. (See Arthur, George T., assignor.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holthoff, Henry C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roasting furnace. 1,450,900; Apr. 3.
Holtz, Gustav, and C. Green, Gouldsboro, Pa. Self-centering ice chute and run. 1,450,887; Apr. 3.
Honsinger, William E., Round Lake, N. Y. Poultry feeder. 1,450,175; Apr. 3.
Hopkins, Alfred, assignor to Hopkins Manufacturing Company, Boston, Mass. Suspending element. 1,450,176; Apr. 3.
Hopkins Manufacturing Company. (See Hopkins, Alfred, assignor.)
Horton, Eugene L., San Francisco, Calif. Bucket protector. 1,450,632; Apr. 3.
Houpert, Henri J., Mamaroneck, N. Y. Internal-combustion-engine piston. 1,450,177; Apr. 3.
Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication means for light signals. 1,450,548; Apr. 3.
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Howell, Wesley E., assignor to Whitall-Tatum Company, Millville, N. J. Marking machine. 1,450,776; Apr. 3.
Hudson, George R., Portland, Oreg. Mixer for gas engines. 1,450,550; Apr.
Husdon, Pearl, Burlington, Iowa. Ratchet device for augers. 1,450,440; Apr. 3.
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Kirschbraun, Lester, Chicago, Ill., assignor to The Raybestos Company, Bridgeport, Conn. Asbestos friction clutch rings. 1,450,319; Apr. 3.
Kirschbraun, Lester, Chicago, Ill. Bituminous emulsion and making same. 1,450,685; Apr. 3.
Klaasse, Arend, Jackson, Mich. Spring. 1,450,686; Apr. 3.
Kohler Company. (See Bucher, William W., assignor.)
Kollberg, Gustaf L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pump. 1,450,901; Apr. 3.
Kopp, Arile E., New Middletown, Ind. Ratchet plate and die. 1,450,211; Apr. 3.
Korn, Joseph, Newark, N. J. Grease-retaining device for hats. 1,450,181; Apr. 3.
Kreissle, Hermann O., assignor to Ansbacher Motorenfabrik Karl Bachmann Aktiengesellschaft, Ansbach, Germany. Trailer. 1,450,554; Apr. 3.
Kriegenhofer, August. (See Twitchell, Herbert E., assignor.)
Kulhawy, Ferdinand, assignor to Comfort Safety Razor and Novelty Co. Inc., West Hoboken, N. J. Safety razor. 1,450,859; Apr. 3.
Kunin, Harry, assignor to Midwest Machinery Products Co., Chicago, Ill. Cooking vessel. 1,450,687; Apr. 3.
Kuttroff Pickhardt & Co. (See Lendle, August, assignor.)

Kuzdial, Lawrence. (See Gaken, Josef F., assignor.)
Lacki, Wojciech, Chicago, Ill. Cradle. 1,450,635; Apr. 3.
Laing, Norman B., Detroit, and F. C. Rindfish, Highland Park, Mich. Storage battery. 1,450,889; Apr. 3.
Lalle, Peter A., and C. F. Fowler, assignors of one-third to S. L. Petrino, Buffalo, N. Y. Amusement apparatus. 1,450,669; Apr. 3.
La Mar, Frank C., Pittsburgh, Pa. Indicator for electric fuses. 1,450,670; Apr. 3.
Lamb, George L., Nappanee, Ind. Visor for use with automobiles. 1,450,809; Apr. 3.
Lambert, Alfred M. (See Brown, E. N., and Lambert.)
Lamm, Anthony, Brooklyn, and J. F. Schroeder, Middle Village, N. Y. Roof structure. 1,450,182; Apr. 3.
Landgraf, William F., Washington, D. C. Valve-spring compressor. 1,450,890; Apr. 3.
Lang, Albert B., St. Louis, Mo. Transmission lock for automobiles. 1,450,212; Apr. 3.
Langenkamp, Albert G. (See McElroy, R. H., Cite, and Langenkamp.)
La Pierre, Frank H. (See Wister, Arthur, assignor.)
La Riviere, Mathias J., Waterbury, Conn. Antiskid device. 1,450,779; Apr. 3.
La Société d'Etudes et de Constructions Metallurgiques. (See Jombart, Félix, assignor.)
La Societe La Cellophane, Siège Social. (See Brandenberger, Jaques, E., assignor.)
Latshaw, Adam, Dubois, Pa. Traffic signal. 1,450,636; Apr. 3.
Laufe, Charles, New York, N. Y. Hair-waving comb. 1,450,860; Apr. 3.
Lawrence, John T., Newark, N. J. Paint. 1,450,688; Apr. 3.
Lecce, Leicester L., Cleveland, Ohio. Gear shift for motor vehicles. 1,450,745; Apr. 3.
Leeds, Robert R., assignor to The Topping Manufacturing Co., Ashland, Ohio. Carrier for disappearing doors. 1,450,729; Apr. 3.
Lego, Russell C., Beaver Falls, Pa. Double-acting deep-well pump. 1,450,213; Apr. 3.
Leighton, George A., Roslindale, Mass., assignor to American Can Company, New York, N. Y. Friction-top can. 1,450,422; Apr. 3.
Leimberger, Edward L., and A. Brasher, Chicago, Ill. Feeding attachment for power wringers. 1,450,891; Apr. 3.
Lemon, Alfred B., Providence, R. I. Badge. 1,450,689; Apr. 3.
Lencke, John K., Brooklyn, N. Y. Armature. 1,450,599; Apr. 3.
Lendle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Paper made from kapok fiber. 1,450,690; Apr. 3.
Leopold, Samuel N., assignor to Morris Paper Mills, Chicago, Ill. Collapsible caddy. 1,450,690; Apr. 3.
Lépine, Charles, Torino, Italy, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Apparatus for direct observation of picture films. 1,450,555; Apr. 3.
Lewis, Harry R., jr. (See Morse, A. C., and Lewis.)
Libbey-Owens Sheet Glass Company, The. (See Allen, Horace E., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Gray, William, assignor.)
Lincoln, Irvin, Lansing, Mich. Resilient wheel. 1,450,671; Apr. 3.
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube manufacture. 1,450,320; Apr. 3.
Locomobile Company, The. (See Roos, Delmar G., assignor.)
Lohr, Michael E., Johnstown, Pa. Mine car. 1,450,637; Apr. 3.
Lonergan, Patrick H., Boulder, Colo. Radiator cores. 1,450,746; Apr. 3.
Long, William N., Springfield, Oreg. Internal-combustion engine. 1,450,810; Apr. 3.
Longnaker, Milton S., Pleasant Hill, Ohio, assignor, by mesne assignments, to J. W. Page, Chicago, Ill. Excavating machine. Re15,571; Apr. 3.
Lovejoy, Ralph M., Meredith, N. H. Shock absorber. 1,450,601; Apr. 3.
Lowe, Edward L., Palo Alto, Calif. Burner for internal-combustion engines. 1,450,691; Apr. 3.
Lucas, Irving V., Muskogee, Okla. Vehicle jack. 1,450,504; Apr. 3.
Lucas, Stephen J., Chicago, Ill. Level attachment for carpenters' squares. 1,450,296; Apr. 3.
Lundell, Alben E., Chicago, Ill., and G. Thompson, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Party-line revertive ringing system. 1,450,321; Apr. 3.
Lunt, George P., New York, N. Y. Drying colloids. 1,450,377; Apr. 3.
McAnally, William R., Fort Dodge, Iowa. Light reflector. 1,450,376; Apr. 3.
McDowell, Joe E., Fort Worth, Tex. Pneumatic stage pump. 1,450,505; Apr. 3.
McElhany, John W., Denver, Colo. Hand-operating extensible fish-landing net and handle. 1,450,322; Apr. 3.
McElroy, Roy H., receiver. (See McElroy, R. H., Cite and Langenkamp, assignors.)
McElroy, Roy H., J. D. Cite, and A. G. Langenkamp, assignors to R. H. McElroy, receiver for The Bahmann Iron Works Co., Dayton, Ohio. Brick and tile machine.
McElroy, William J., New York, and J. Clarke, Manhasset, North Hempstead, N. Y., assignors, by mesne assignments, to Alchemic Gold Company, Inc. Printing ink. 1,450,692; Apr. 3.
McEwan, Hugh, Pittsburgh, Pa., assignor to W. W. Nicoll, New York, N. Y. Safety exploder. 1,450,672; Apr. 3.
McGahey, Robert E., Alexandria, Va. Self-locking anglecock. 1,450,811; Apr. 3.
McGuire, James E., Camden, N. J. Safety device for tools. 1,450,323; Apr. 3.
McGuire, Lee, Paint Lick, Ky. Electrically operated vehicle signal. 1,450,214; Apr. 3.
McGuire, Michael H., Clifford, assignor of one-half to C. E. Frederickson, St. Joseph, Mich. Portable bathtub with heating appliance. 1,450,444; Apr. 3.
McKeever, William J., Cambridge, Mass. Mop. 1,450,556; Apr. 3.
McKenzie, William S., Creighton Mine, and R. Richardson, Copper Cliff, Ontario, Canada. Lighting accessory for automobiles. 1,450,324; Apr. 3.
McLean, Embury, Brooklyn, N. Y. Furnace control. 1,450,693; Apr. 3.
McNamara, Edward M., Chicago, Ill. Mop holder and wringer. 1,450,673; Apr. 3.
McNary, James E., Chicago, Ill., assignor to J. W. Weeks, Secretary of War of the United States of America. Helmet. 1,450,379; Apr. 3.
McNaughton, John. (See McNaughton, Mabel P. and J.)
McNaughton, Mabel P., and J., New York, N. Y. Mop. 1,450,445; Apr. 3.
Macdonald, Charles A., Cambridge, Mass., assignor to William S. Doig, Inc., Brooklyn, N. Y. Nailer for corrugated fasteners. 1,450,780; Apr. 3.
Mace, Arthur T., assignor to The Domestic Electric Company, Cleveland, Ohio. Driving mechanism for sewing machines. 1,450,602; Apr. 3.
Mack, William H., Oak Grove, La. Saw set. 1,450,812; Apr. 3.
Mackay, Philip A., London, England. Recovering vanadium from its ores. 1,450,507; Apr. 3.
Maclean, Robert S., Chicago, Ill. Building construction. 1,450,731; Apr. 3.
MacNeill, William J., Wauwatosa, assignor to Federal Malleable Company, West Allis, Wis. Molder's press. 1,450,862; Apr. 3.
MacPhee, Dougald, Rivers Inlet, British Columbia, Canada. Fish-cleaning machine. 1,450,508; Apr. 3.
Maegly, George B., Houston, Tex. Pump. 1,450,215; Apr. 3.
Magny, Daniel, Issoudun, France. Installation for the washing and combing of pigs' bristles. 1,450,325; Apr. 3.
Mahoney, Raymond, Philadelphia, Pa. Safety device for ladders. 1,450,694; Apr. 3.
Maitland, Harold T., Sharon Hill, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for treating oils. 1,450,326; Apr. 3.
Majectic Electric Development Company. (See Brown, E. N., and Lambert, assignors.)
Maltby, Julius, assignor to Waterbury Buckle Co., Waterbury, Conn. Strap buckle. 1,450,509; Apr. 3.
Mann, J. A. (See Reed, George E., assignor.)
Manning, Robert M., Hewitt, Okla. Stopcock. 1,450,861; Apr. 3.
Marine Specialty Manufacturing Company. (See Hansen, Joseph, assignor.)
Marks, Herbert E., Sewickley, Pa. Skylight. 1,450,537; Apr. 3.
Marlin Firearms Corporation, The. (See Swebilius, Carl G., assignor.)
Marqua, J. E., Company. (See Isaacs, B. B., and Marqua, assignors.)
Marqua, James E. (See Isaacs, B. B., and Marqua.)
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Method of and apparatus for recovering spent pickling solutions. 1,450,216; Apr. 3.
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Method of and apparatus for reclaiming spent pickling solution. 1,450,217; Apr. 3.
Marshall, Charles J., and F. R. Weaver, assignors to P. B. Yates Machine Company, Beloit, Wis. Milling-machine adjustment and quick release. 1,450,695; Apr. 3.
Marston, Howard F., Dayton, Ohio. Size-reducible box. 1,450,674; Apr. 3.
Martin, A. J., et al. (See Baker, Louis E., assignor.)
Martin, James M., Knoxville, Tenn. Pipe wrench. 1,450,297; Apr. 3.
Mason, William H., Leesburg, Ohio. Wire-fence fastener. 1,450,298; Apr. 3.
Master Carbureter Corporation. (See Summers, Caleb E., assignor.)
Masury-Young Company. (See Keene, Waite W., assignor.)
Mayer, Fred G., assignor to Starr Piano Company, Richmond, Ind. Automatic stop for phonographs. 1,450,299; Apr. 3.
Maze, Charles A. F., dit D. Maze, Paris, France. Gun. 1,450,558; Apr. 3.

Mead-Morrison Manufacturing Company. (See Snow, Frederick O., jr., assignor.)
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Medart, Fred, Manufacturing Company. (See Medart, P. S., and Albach, assignors.)
Medart, Philip S., and F. Albach, assignors to Fred Medart Manufacturing Company, St. Louis, Mo. Exercising apparatus. 1,450,300; Apr. 3.
Medeiros, Emygdio S., assignor to New Bedford Tensioning Devices, Inc., New Bedford, Mass. Thread-tensioning device. 1,450,559; Apr. 3.
Meischke-Smith, William, Boldre Hill, Boldre Hants, England. Distilling bituminous matter. 1,450,327; Apr. 3.
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Mattel, John P., Dubuque, Iowa. Washboiler. 1,450,638; Apr. 3.
Metz, John J., Meadville, Pa. Train-order holder. 1,450,813; Apr. 3.
Meyer, Adolph F., St. Paul, Minn. Governor. 1,450,380; Apr. 3.
Meyer, Hubert J. (See Wells, N. C., and Meyer.)
Meyers, Hubert A., Company. (See Meyers, Hubert A., assignor.)
Micka, Henry R., Maywood, Ill. Fuel-gas mixer. 1,450,814; Apr. 3.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Jacket for preliminary cure. 1,450,328; Apr. 3.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tension device for tire-building machines. 1,450,747; Apr. 3.
Midwest Machinery Products Co. (See Kunin, Harry, assignor.)
Mieville, Herbert C., Davenport, Iowa, assignor to Squire Products Company, Pittsburgh, Pa. Grill. 1,450,381; Apr. 3.
Miller, Charles E., assignor to Universal Arch Company, Chicago, Ill. Locomotive arch. 1,450,696; Apr. 3.
Miller, James F. (See Hurst, L. E., and Miller.)
Milwaukee Tank Works. (See Bienenstok, Edgar A., assignor.)
Miner, William H. (See Dath, Charles E., assignor.)
Miner, William H. (See Floyd, George G., assignor.)
Miner, William H. (See Haseltine, Stacy B., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Mitchell, Arthur R., assignor to Mitchell Window Device Co., Milwaukee, Wis. Window construction. 1,450,697; Apr. 3.
Mitchell, John A. (See Schede, A. W., and Mitchell.)
Mitchell Window Device Co. (See Mitchell, Arthur R., assignor.)
Monson, George S., St. Paul, Minn. Dental impression tray. 1,450,639; Apr. 3.
Moon, Elmer C., Sheepshead Bay, N. Y. Typewriter-clamp. 1,450,183; Apr. 3.
Moore, James D., Northwilkesboro, N. C. Mechanical movement. 1,450,184; Apr. 3.
Moore, Lester L., Winder, Ga. Boll-weevil trap. 1,450,382; Apr. 3.
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morgan & Wright. (See Gunn, James N., assignor.)
Morgan, Edmund C., New York, N. Y. Mine-roof-supporting method and apparatus. 1,450,329; Apr. 3.
Morgan, Edmund C., New York, N. Y. Mining apparatus. 1,450,693; Apr. 3.
Morici, Nazarene, Chicago, Ill. Carving or reproducing machine. 1,450,698; Apr. 3.
Morris Paper Mills. (See Leopold, Samuel N., assignor.)
Morrow, James A., Wichita Falls, Tex. Spring wheel. 1,450,748; Apr. 3.
Morrow, John B., Harrisburg, Pa. Pressure regulator and cut-off. 1,450,853; Apr. 3.
Morse, Alonzo C., and H. R. Lewis, jr., Shelby, Ohio. Seamless-tube drawing. 1,450,699; Apr. 3.
Mortensen, Soren H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. 1,450,902; Apr. 3.
Morton, Charles D., assignor to Morton Filter Process Co., New York, N. Y. Separation and filter system and apparatus. 1,450,560; Apr. 3.
Morton Filter Process Co. (See Morton, Charles D., assignor.)
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Razor. 1,450,604; Apr. 3.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Mueller, Lawrence A., Kankakee, Ill. Trap-drum support. 1,450,732; Apr. 3.
Mull, Raymond A., Benton Harbor, assignor to Holland Rod Manufacturing Company, St. Joseph, Mich. Fish rod. 1,450,700; Apr. 3.
Munro, William T. (See Edmundson, H. W., and Munro.)
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murphy, Walter P. (See Gilpin, Garth G., assignor.)
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murphy, Walter P. (See Small, Arthur E., assignor.)
Murray, Charles E., Chicago, Ill. Machine for treating bolts of cloth for clothing. 1,450,701; Apr. 3.
Myers, Charles E., Canton, Ohio. Gauge plug. 1,450,185; Apr. 3.
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Metal mold. 1,450,186; Apr. 3.
Nacke, Karl, assignor to United Metal Spinning Co., Brooklyn, N. Y. Cast arm for lighting fixtures. Des. 62,177; Apr. 3.
Nacke, Karl, assignor to United Metal Spinning Co., Brooklyn, N. Y. Husk for ball-lamp-socket cover for lighting fixtures. Des. 62,178; Apr. 3.
Namlooze Vennootschap Finanzieele Mattschapij "Driebergen." (See Hase, Rudolf, assignor.)
National Acme Company, The. (See Smith, Oscar A., assignor.)
National Airless Tire Company. (See Patton, Darrell E., assignor.)
Negbaur, Harry, New York, N. Y., assignor to E. & J. Bass, Incorporated. Ovenware and holder therefor. 1,450,330; Apr. 3.
Nelson, Coral A., Binghamton, N. Y. Headlight attachment. 1,450,862; Apr. 3.
Nelson, Hjalmer A., Detroit, Minn. Memorandum attachment for automobiles. 1,450,446; Apr. 3.
Nemecek, Stephen, Chicago, Ill. Cue tip. 1,450,605; Apr. 3.
Nenoff, Christ, Pittsburgh, Pa. Portable and collapsible shower bath. 1,450,218; Apr. 3.
Nessler, Charles, New York, N. Y. Artificial eyelashes and making same. 1,450,259; Apr. 3.
Neubert, Walter P., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Plunger lock with circuit controller for railway switches. 1,450,331; Apr. 3.
Neunaber, John F., and L. E. Bartels, Bethalto, Ill. Road scraper. 1,450,815; Apr. 3.
New Bedford Tensioning Devices, Inc. (See Medeiros, Emygdio S., assignor.)
New Jersey Zinc Company. (See Singmaster, J. A., and Breyer, assignors.)
Newby, William, Youngstown, Ohio. Opening sheet and tin-plate packs. 1,450,863; Apr. 3.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fuel feeder. 1,450,903; Apr. 3.
Newman, Isidor, New York, N. Y. Closure for receptacles. 1,450,260; Apr. 3.
Newton, Robert W., Providence, R. I. Automatic sprinkler. 1,450,219; Apr. 3.
Nichols, Malcolm P., New Haven, Conn. Headlight installation for automobiles. 1,450,510; Apr. 3.
Nicole, Louis, London, England. Milling, drilling, and grinding appliance for lathes. 1,450,447; Apr. 3.
Nicoll, William W. (See McEwan, Hugh, assignor.)
Nielsen, Niels, Lincoln, Nebr. Engine-supporting stand. 1,450,511; Apr. 3.
Niesman, Charles P., Freeport, Ill. Saw-setting tool. 1,450,220; Apr. 3.
Norman, Charles E., Chicago, Ill. Pipe-supporting means. 1,450,640; Apr. 3.
Norris, Almon E., Brookline, Mass. Automobile winch. 1,450,301; Apr. 3.
Norris, Almon E., Brookline, Mass. Automobile winch. 1,450,302; Apr. 3.
O. B. Electric Vehicles, Inc. (See Bahls, Otto, assignor.)
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,450,383; Apr. 3.
Ograbisz, Stephen J., Buffalo, N. Y. Wrench. 1,450,641; Apr. 3.
Olson, Edward, Mount Alton, Pa. Knuckle joint for automobile steering mechanism. 1,450,780; Apr. 3.
Olson, Swan, Minneapolis, Minn. Push-harvester binder. 1,450,384; Apr. 3.
Ordung, Henry H., assignor of one-half to J. Wade, Laporte, Ind. Tag. 1,450,816; Apr. 3.
Otis, Spencer, Barrington, Ill. Wheel-pit drop table. 1,450,702; Apr. 3.
Ott, William D., and H. F. Griffin, Riverside, Iowa. Automobile headlight. 1,450,642; Apr. 3.
Ottinger, Leon, New York, N. Y. Latch. Re15,569; Apr. 3.
Owens, George H., Addison, N. Y. Berry-picker outfit. 1,450,221; Apr. 3.
Pache, Auguste, New York, N. Y. Means for locating trouble in ignition systems. 1,450,896; Apr. 3.
Page, John W. (See Longmaker, Milton S., assignor.)
Paine, Henry E., San Francisco, Calif. Pipe union. 1,450,606; Apr. 3.
Palm Brothers Company, The. (See Jenner, Percy, assignor.)
Parish, Le Grand, Mountainview, N. J. Locomotive fire box. 1,450,607; Apr. 3.
Parker, Charles B., Nashville, Tenn. Machine for filtering compressed air. 1,450,561; Apr. 3.
Parker, Eugene J. (See Killian, L. J., and Parker.)
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. File wire. 1,450,512; Apr. 3.
Parkison, Wallace M., Brooks, Ind. Brake band. 1,450,448; Apr. 3.
Parrish, Risl T. (See Gingerick, Kent S., assignor.)
Partenope, Nicholas. (See Ziloccki, Giordano, assignor.)
Pathe Cinema, Anciens Etablissements Pathe Freres. (See Lépine, Charles, assignor.)
Pattison, William, Widnes, England. Corrugating or like treatment of sheet plastic materials. 1,450,222; Apr. 3.

Patton, Darrell E., assignor to National Airless Tire Company, Los Angeles, Calif. Tire tread. Des. 62,171; Apr. 3.
Paull, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Tire tread. Des. 62,172; Apr. 3.
Pearson, Emil L., Chicago, Ill. Child's vehicle. Des. 62,173; Apr. 3.
Pearson, Miles E., and E. Tow, Sacramento, Calif.; said Pearson assignor to said Tow. Frame brace. 1,450,513; Apr. 3.
Peck, John W., jr., New York, N. Y. Projecting screen. 1,450,864; Apr. 3.
Pelc, Joseph, Cicero, Ill. Water-soluble product and making the same. 1,450,865; Apr. 3.
Pelosi, Frank, New York, N. Y. Fender for vehicles. 1,450,449; Apr. 3.
People of the United States. (See Brooks, Charles, assignor.)
People of the United States. (See Sherman, J. M., and Whittier, assignors.)
Perham, Charles F., Lynn, Mass., assignor to General Electric Company. Motion-picture projection. 1,450,514; Apr. 3.
Peters, Thomas, Peters, Fla. Preparing fruits and vegetables for shipment. 1,450,866; Apr. 3.
Petrino, Sebastian L. (See Lalle, P. A., and Fowler, assignors.)
Pfeiffer, John F., administrator. (See Dickhart, William, assignor.)
Pferrer, Martin P., et al. (See Gray, Joseph M., assignor.)
Philadelphia Textile Machinery Company, The. (See Ayres, Elwood B., assignor.)
Phillips, Lewis. (See Swindell, W. H., and Phillips.)
Pierce, George W., Cambridge, Mass., assignor to P. C. Hewitt, deceased, Ringwood Manor, N. J.; The Farmers' Loan and Trust Company, New York, N. Y., executor. Apparatus for and method of controlling electric currents. 1,450,749; Apr. 3.
Pietras, Ludwik R., Joliet, Ill. Motor-driven sled. 1,450,332; Apr. 3.
Piette, Olivier, Brussels, Belgium. Treatment of gases from gas producers. 1,450,562; Apr. 3.
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Platt, Edwin F. (See Platt, Edwin H., assignor.)
Platt, Edwin H., Denver, Colo., assignor of one-half to E. F. Platt, Portland, Oreg. Power transmission for motor vehicles. 1,450,643; Apr. 3.
Plumley, Stuart. (See Anderson, J. L., and Plumley.)
Podgorsek, Leo. (See Steinbach, Arthur, assignor.)
Polhemus, Louis E., Miami, Ariz. Carbide lamp. 1,450,867; Apr. 3.
Poppe, Edward W., assignor to Kalamazoo Paper Box Company, Kalamazoo, Mich. Display box. 1,450,450; Apr. 3.
Porter, Louis E., Connellsville, Pa. Moistener. 1,450,817; Apr. 3.
Potter, Washington M., Freedom, Pa. Suspender. 1,450,303; Apr. 3.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Trouble-locating device. 1,450,563; Apr. 3.
Pracht, Fred, Williamsville, Mo. Wire fastener for fence-posts. 1,450,644; Apr. 3.
Pressure Proof Piston Ring Company. (See Anderson, James G., assignor.)
Prince, Stewart V. V., Washington, D. C. Motor plow. 1,450,385; Apr. 3.
Putnam, George E., East Kansas City, Mo. Oil filter. 1,450,750; Apr. 3.
Quigley, John T., assignor, by mesne assignments, to Costmeter Company, Boston, Mass. Loose-leaf-index file. 1,450,304; Apr. 3.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Adjustable index. 1,450,751; Apr. 3.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing equipment. 1,450,752; Apr. 3.
Raber, Daniel E., Perry, Iowa. Draft regulator and chimney cleaner. 1,450,451; Apr. 3.
Raley, Elbert B., Mart, Tex. Powder-dusting attachment. 1,450,223; Apr. 3.
Randall, Samuel E., Junction City, Ark. Soldering block. 1,450,452; Apr. 3.
Randolph, Cary H., St. Louis, Mo. Elementary-music-notation device. 1,450,868; Apr. 3.
Rasche, Hugo, Princeton, Iowa. Automobile chain fastener and tightener. 1,450,453; Apr. 3.
Ratcliffe, Emily. (See Ratcliffe, Frank S., assignor.)
Ratcliffe, Frank S., deceased; L. M. Jones, administrator, assignor to E. Ratcliffe, Milwaukee, Wis. Wrench. 1,450,224; Apr. 3.
Raybestos Company, The. (See Kirschbraun, Lester, assignor.)
Reaugh Construction Company, The. (See Reaugh, Ernest W., assignor.)
Reaugh, Ernest W., assignor to The Reaugh Construction Company, Cleveland, Ohio. Sectional partition. 1,450,733; Apr. 3.
Rebstock, August J., assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer. 1,450,225; Apr. 3.
Rebstock, August J., assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer. 1,450,226; Apr. 3.
Rector, Harlan S., assignor to The Beckley-Ralston Co., Chicago, Ill. Tire casing. Des. 62,174; Apr. 3.
Reece, John, assignor to Evr Klean Seat Pad Co., St. Louis, Mo. Seat cover. 1,450,387; Apr. 3.
Reece, John, assignor to Evr Klean Seat Pad Co., St. Louis, Mo. Seat pad. 1,450,703; Apr. 3.
Reed, Andrew H., Fullerton, Calif. Pump construction. 1,450,333; Apr. 3.
Reed, George E., assignor of one-half to J. A. Mann, Greenville, Miss. Attachment for doors. 1,450,227; Apr. 3.
Reese, Charles C., San Francisco, J. T. Buzzo, Oakland, and R. S. Woodford, Crockett, Calif. Sugar-feeding machine. 1,450,423; Apr. 3.
Regan, Thomas J., New York, N. Y. Toilet-powder container. 1,450,386; Apr. 3.
Reid, Willard. (See Smith, Hazor J., assignor.)
Reinelt, William W., Deckerville, Mich. Carpenter's folding sawhorse. 1,450,869; Apr. 3.
Renshaw, Oscar J., Langells Valley, Oreg. Rifle turbine. 1,450,753; Apr. 3.
Reynolds, Arthur W., assignor of one-half to E. Benedict, Newtown, Conn. Power lift for tractor plows. 1,450,754. Apr. 3.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Winding machine. 1,450,228; Apr. 3.
Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone signaling system. 1,450,305; Apr. 3.
Ribak, Charles F., San Francisco, Calif. Cushion tire. 1,450,818; Apr. 3.
Rice, Louis W., New York, N. Y. Bowl or the like. Des. 62,175; Apr. 3.
Richards, Barnett. (See Darnley, Percy H., assignor.)
Richardson, Robert. (See McKenzie, W. S., and Richardson.)
Richardson, William W., London, England. Mineral classifying and concentrating apparatus. 1,450,515; Apr. 3.
Richman, Charles J., et al. (See Green, Charles, assignor.)
Richman, Evert F., et al. (See Green, Charles, assignor.)
Richter, Emanual, Chicago, Ill., assignor to The Elliott-Fisher Company, New York, N. Y. Calculating machine. 1,450,516; Apr. 3.
Riddle, Edward N., Co. (See Crowell, Frank S., assignor.)
Rider, Roy R., St. Louis, Mo. Catamenial bandage. 1,450,755; Apr. 3.
Rieff, John G., London, Wis. Detachable chain hook. 1,450,388; Apr. 3.
Rieff, John G., London, Wis. Detachable chain hook. 1,450,389; Apr. 3.
Rindfish, Fred C. (See Laing, N. B., and Rindfish.)
Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Gas range. 1,450,756; Apr. 3.
Robertshaw, George A. (See Robertshaw, Frederick W. and G. A.)
Robertson, Joseph M., et al. (See Gray, Joseph M., assignor.)
Robinson, Charles B. (See Daulton, B. H., and Robinson.)
Robinson, Claude E. (See Frick, P. S., and Robinson.)
Robinson, Edward K., Belmont, Mass. Bookbinding. 1,450,261; Apr. 3.
Robinson, John G., Fairfield, England. Furnace of locomotives. 1,450,229; Apr. 3.
Robinson, Leo S., Alameda, Calif. Segregating apparatus. 1,450,390; Apr. 3.
Rogers-Higgins Co., The. (See Higgins, James F., assignor.)
Roney, Alexander B., Chicago, Ill. Lever-controlled paddle-action flying machine. 1,450,454; Apr. 3.
Roney, Thomas F., Providence, R. I. Milk-bottle cap. 1,450,517; Apr. 3.
Rook, James H., Chicago, Ill. Wrapper for candy-box covers. 1,450,230; Apr. 3.
Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Spring shackle construction. 1,450,306; Apr. 3.
Rosier, Royal D. (See Watkins, Joseph B., assignor.)
Ross, Mark A., Flossmoor, assignor of one-half to H. P. Bayley, Chicago, Ill. Bearing. 1,450,307; Apr. 3.
Ross, Mark A., Flossmoor, assignor of one-half to H. P. Bayley, Chicago, Ill. Bearing. 1,450,308; Apr. 3.
Ross, Mark A., Flossmoor, assignor of one-half to H. P. Bayley, Chicago, Ill. Bearing. 1,450,309; Apr. 3.
Roth, Emery, Chicago, Ill. Heat-treating method of rendering metals ductile. 1,450,734; Apr. 3.
Royle, Vernon, Paterson, N. J. Registering and squaring machine. 1,450,608; Apr. 3.
Russell, Edgar S., Sweet Home, Oreg. Automatic clutch release. 1,450,757; Apr. 3.
Ruth, David C., assignor of one-half to S. E. L. Ruth, Halstead, Kans. Separator. 1,450,645; Apr. 3.
Ruth, S. Ella L. (See Ruth, David C., assignor.)
Sadenwater, Frank, Michigan City, Ind. Baseball bat. 1,450,646; Apr. 3.
Salisbury, Robert F., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Making steam-jacketed kettle outlets. 1,450,231; Apr. 3.
Sammes, Frank D., Carlinville, Ill. Ventilator. 1,450,819; Apr. 3.
Samminiatelli, Oreste, East Toledo, Ohio. Combined railway steel tie and rail fastener. 1,450,820; Apr. 3.
Sanders, James B., Basic, Va. Can opener. 1,450,894; Apr. 3.
Sanders, James E., Great Falls, Mont. Vapor stove. 1,450,870; Apr. 3.

Schauman, Karl O., San Francisco, Calif. Cable bumper. 1,450,262; Apr. 3.
Schecher, John L. (See Young, J. S., Young, and Schecher.)
Schecher, John L. (See Young, J. S., Young, and Schecher, assignors.)
Schede, Albert W., Drexel Hill, and J. A. Mitchell, Ridley Park, Pa. Wheel attachment. 1,450,904; Apr. 3.
Schede, Albert W., Drexel Hill, and J. A. Mitchell, Ridley Park, Pa. Wheel attachment. 1,450,905; Apr. 3.
Schelter, George G., Rochester, N. Y., assignor, by mesne assignments, to United Last Company, Auburn, Me. Last. Re15,572; Apr. 3.
Schiegries, Eduard, Duisburg-Meiderich, Germany. Apparatus for making open molds. 1,450,871; Apr. 3.
Schiesari, Mario, New York, N. Y. Apparatus for aerial projection. 1,450,263; Apr. 3.
Schitterer, Herman J., San Diego, Calif. Swivel hook for watch chains. 1,450,264; Apr. 3.
Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Plate clamp. 1,450,609; Apr. 3.
Schoeke, Max, Manchester, England. Vehicle wheel. 1,450,610; Apr. 3.
Schroeder, John F. (See Lamm, A., and Schroeder.)
Schroeder, Rudolph W., Dayton, Ohio. Flowmeter. 1,450,611; Apr. 3.
Schultz, Frederick A., Hasbrouck Heights, N. J. Ear manipulator. 1,450,612; Apr. 3.
Schuster, Karl R., Brooklyn, N. Y. Reinforced floor construction. 1,450,187; Apr. 3.
Schutz, Charles H., Paris, France. Easel. 1,450,821; Apr. 3.
Schwab, Henry, Bicknell, Calif. Deep-well pump. 1,450,647; Apr.
Schwartz, Harry A., Defiance, Ohio. Forming metal. 1,450,648; Apr. 3.
Schwartz, Israel, Danbury, Conn. Wheel-truing gauge. 1,450,518; Apr. 3.
Schwenneke, Hans, assignor to Globe Paper Box Company, Chicago, Ill. Pasteboard box. 1,450,334; Apr. 3.
Schwier, William, assignor of one-half to F. Haubrock, Tacoma, Wash. Monorail frog. 1,450,758; Apr. 3.
Scott, Jesse, Dayton, Ohio. Corn planter. 1,450,613; Apr. 3.
Scott, John W., West Allis, Wis. Window strips. 1,450,649; Apr. 3.
Seaman, Delbert O., Des Moines, Iowa. Moving-picture machine. 1,450,455; Apr. 3.
Setlow, John C., Spokane, Wash. Submarine salvage vessel. 1,450,232; Apr. 3.
Seymour, Charles, Brantford, Ontario, Canada. Cooling apparatus for automobiles. 1,450,650; Apr. 3.
Seymour, Dudley S., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,450,456; Apr. 3.
Shaffer, Glenn A. (See Cannard, W. H., and Shaffer.)
Shaft, Willis S., Faribault, Minn. File and file cabinet for letters or other papers. 1,450,614; Apr. 3.
Sharp, John H., Chicago, Ill. Travel and sales guide. 1,450,335; Apr. 3.
Sharp, John H., Chicago, Ill. Automobile protective device. 1,450,336; Apr. 3.
Shaw, Ira D., Boston, Mass. Fastener. 1,450,391; Apr. 3.
Sheal, Robert E., Cleveland, Ohio. Material-handling bridge. 1,450,735; Apr. 3.
Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Hopper-car door. 1,450,615; Apr. 3.
Sheppard, Orlando, jr., Atlanta, Ga., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Cake former. 1,450,457; Apr. 3.
Sherman, Edward T., Minneapolis, Minn. Door latch. 1,450,188; Apr. 3.
Sherman, James M., and E. O. Whittier, Washington, D. C., dedicated, by mesne assignments, to the People of the United States. Purification of propionates by the action of bacteria. 1,450,392; Apr. 3.
Sheuman, James E., Waynesboro, Pa. Floating reamer holder. 1,450,822; Apr. 3.
Shively, Albert B., Laurel, Nebr. Hog-trough apparatus. 1,450,519; Apr. 3.
Shiverick, Myron D., Albany, assignor to Sweet & Doyle Foundry and Machine Co., Green Island, N. Y. Automobile signal. 1,450,337; Apr. 3.
Siemens & Halske Aktiengesellschaft. (See Böhme, Kurt, assignor.)
Sieper, Conrad, Krawinkelerbrucke, Germany. Hammering machine. 1,450,896; Apr. 3.
Signal Gesellschaft m. b. H. (See Hahnemann, Walter, assignor.)
Silliman, William M., Syracuse, N. Y. Lining for conduit outlet boxes. 1,450,310; Apr. 3.
Simenson, Oscar, Locust, Iowa. Wire stretcher. 1,450,458; Apr. 3.
Simonye, Frank, New York, N. Y. Washing machine. 1,450,393; Apr. 3.
Singmaster, James A., and F. G. Breyer, Palmerton, Pa., assignors to New Jersey Zinc Company, New York, N. Y. Production of zinc oxide. 1,450,704; Apr. 3.
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Corrugated-metal end for freight cars. 1,450,233; Apr. 3.
Sittig, Emil. (See Grantchstadten, A., and Sittig.)
Sklovsky, Max, assignor to Deere and Company, Moline, Ill. Apparatus for producing gaseous fuel. 1,450,338; Apr. 3.
Sleplan, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hot-cathode tube. 1,450,265; Apr. 3.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-exchange system. 1,450,564; Apr. 3.
Small, Arthur E., assignor to W. P. Murphy, Chicago, Ill. Combined door closer, starter, and lock. 1,450,284; Apr. 3.
Smith, A. O., Corporation. (See Smith, R. S., and Adams, assignors.)
Smith, Curtis A., New Rochelle, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Hanging lamp. Des. 62,188; Apr. 3.
Smith, Curtis E., St. Joseph, Mo. Portable rotary saw. 1,450,459; Apr. 3.
Smith, Edward W., Philadelphia, Pa. Secondary or storage battery. 1,450,565; Apr. 3.
Smith, Harold E., Cleveland Heights, Ohio. Power-driven wringer mechanism. 1,450,736; Apr. 3.
Smith, Harry T., Kansas City, Mo. Vernier adjuster. 1,450,566; Apr. 3.
Smith, Hazor J., Springfield, Mass., assignor of one-half to W. Reid, Chicago, Ill. Traffic guide. 1,450,616; Apr. 3.
Smith, Henry A. W., Danville, Va. General-utility bolt. 1,450,460; Apr. 3.
Smith, James, Glasgow, Scotland. Process of purifying mineral oils. 1,450,617; Apr. 3.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,450,737; Apr. 3.
Smith, Oscar A., East Cleveland, assignor to The National Acme Company, Cleveland, Ohio. Feed collet and making same. 1,450,189; Apr. 3.
Smith, Reuben S., and J. L. Adams, jr., assignors to A. O. Smith Corporation, Milwaukee, Wis. Intermittingly-operating motor set. 1,450,339; Apr. 3.
Smith, Reuben S., and J. L. Adams, jr., assignors to A. O. Smith Corporation, Milwaukee, Wis. Intermittingly-operating motor system. 1,450,340; Apr. 3.
Smith, Wesley F., Bandana, Ky. Shade roller. 1,450,520; Apr. 3.
Smolk, Harry W., Cleveland, Ohio. Machine for use in manufacturing tire tubes. 1,450,235; Apr. 3.
Snow, Frederick O., jr., Winchester, assignor to Mead-Morrison Manufacturing Company, East Boston, Mass. Winch. 1,450,311; Apr. 3.
Snyder, Samuel W., assignor of one-third to J. H. Wable and one-third to W. Hummell, Hamlet, Nebr. Drawbars for towing vehicles. 1,450,750; Apr. 3.
Societe les Petits Fils de Francois de Wendel et Cie. (See Weber, Guillaume, assignors.)
Sonn, Frederick, Woodmere, N. Y. Picture-card frame. 1,450,190; Apr. 3.
Sorrell, Delos W., et al. (See Goodwin, Adolphus D., assignor.)
Sparks, Harry L., Huntsman, Nebr. Beet topper. 1,450,872; Apr. 3.
Spencer, Isaac C., Glendale, Utah. Rifle sight. 1,450,823; Apr. 3.
Sprouil, George F., Montgomery, Ala. Machine for distributing powder over growing plants. 1,450,651; Apr. 3.
Spyroseal Manufacturing Company. (See Brunnings, John H., assignor.)
Squire Products Company. (See Mieville, Herbert C., assignor.)
Stamps, Robert E. (See Greene, G. C., Tune, and Stamps.)
Standard Underground Cable Company. (See Fisher, H. W., and Davis, assignors.)
Starbard, Raymond C., Paterson, N. J. Brake for baby carriages. 1,450,873; Apr. 3.
Starr, Louis M. (See Epstein, Eli, assignor.)
Starr Piano Company. (See Mayer, Fred G., assignor.)
Steinbach, Arthur, assignor of one-half to L. Podgorsek, Chicago, Ill. Armature for dynamo-electric machines. 1,450,521; Apr. 3.
Stemmler, Edwin F., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Timber-treating apparatus. 1,450,897; Apr. 3.
Stiles, John C., St. Louis, Mo. Heel construction. 1,450,705; Apr. 3.
Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Lens shade. 1,450,522; Apr. 3.
Stine, Charles M., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Separating isomeric trinitrotoluenes. 1,450,675; Apr. 3.
Stockade Building System, Inc., The. (See Hewlett, James M., assignor.)
Stogner, John R., and P. Adams, Lancaster, S. C. Railway-crossing signal. 1,450,824; Apr. 3.
Stolworthy, Richard M., Cincinnati, Ohio. Extension ladder. 1,450,312; Apr. 3.
Strachan, James F., et al. (See Chidlaw, David, assignor.)
Strachan, William S., et al. (See Chidlow, David, assignor.)
Straight, Halver R., Adel, Iowa. Grain elevator. 1,450,461; Apr. 3.

Stramberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winifred T., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
Stromee, Karl O., San Bernardino, Calif. Game apparatus. 1,450,874; Apr. 3.
Stubbs, Robert C., Dallas, Tex. Method of transporting plastic material or concrete for paving and other purposes. 1,450,760; Apr. 3.
Studebaker Corporation. (See Bourgon, Joseph H., assignor.)
Stumph, Wynn W., Tulsa, Okla. Hair curler. 1,450,523; Apr. 3.
Sturm, Joseph, assignor to United Alloy Steel Corporation, Canton, Ohio. Sheet-metal shelving. 1,450,191; Apr. 3.
Stutika, John, West Pullman, Ill. Attachment for internal-combustion engines. 1,450,652; Apr. 3.
Sublette, William M., Fresno, Calif. Gasifier. 1,450,761; Apr. 3.
Summers, Caleb E., assignor to Master Carbureter Corporation, Detroit, Mich. Carburetor. 1,450,762; Apr. 3.
Sun Oil Company. (See Maitland, Harold T., assignor.)
Swain, Joseph G., Akron, Ohio. Pressed-steel wheel and making same. 1,450,618; Apr. 3.
Swann, William, assignor to C. Trawford, Limited, Walsall, England. Means for gripping wire or the like. 1,450,524; Apr. 3.
Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Automatic gun. 1,450,653; Apr. 3.
Sweet & Doyle Foundry and Machine Co. (See Shiverick, Myron D., assignor.)
Swenson, Carl E., et al. (See Anderson, Carl L., assignor.)
Swenson, Carl E., et al. (See Faust, Levin, assignor.)
Swindell, William H., and L. Phillips, Waldo, Fla. Railway switch. 1,450,763; Apr. 3.
Taliaferro, Edward O., Philadelphia, Pa. Car unloader. 1,450,313; Apr. 3.
Talley, Berry M., Morrow, Ark. Antiskid-tire protector. 1,450,764; Apr. 3.
Tartrais, Eugène H., Maisons-Laffitte, France. Internal-combustion engine. 1,450,567; Apr. 3.
Taylor, Herman J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Variable-speed gear set. 1,450,266; Apr. 3.
Taylor, Lawrence M., Philadelphia, Pa. Attachment for automobile gasoline tanks. 1,450,192; Apr. 3.
Taylor, William J. (See Bond, James W., assignor.)
Taylor-Wilson Manufacturing Company. (See Wilson, Edgar H., assignor.)
Technicolor Motion Picture Corporation. (See Wescott, William B., assignor.)
Terhune, Richard A., Fairhaven, Mass., assignor, by mesne assignments, to C. Gaschott, Corona, N. Y. Acidizing rubber waste. 1,450,462; Apr. 3.
Teselsky, Alex P., Ruso, N. Dak. Pliers. 1,450,875; Apr. 3.
Thauss, Alfred, Dentz, near Cologne, and A. Günther, Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Sulphurized compound of phenols. 1,450,463; Apr. 3.
Thomas, George, Chelsea, England. Folding push car. 1,450,193; Apr. 3.
Thomas, Horace T., Lansing, Mich. Panel adjustment for inclosed motor vehicles. 1,450,394; Apr. 3.
Thompson, Clarance W., assignor to Thompson Spring Company, Wilmington, Del. Vehicle spring. 1,450,654; Apr. 3.
Thompson, Clarance W., assignor to Thompson Spring Company, Wilmington, Del. Vehicle spring. 1,450,655; Apr. 3.
Thompson, George. (See Lundell, A. E., and Thompson.)
Thompson, Ralph E., Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Pile wire. 1,450,525; Apr. 3.
Thompson Spring Company. (See Thompson, Clarance W., assignor.)
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Crystal formation. 1,450,464; Apr. 3.
Tiedemann, Theo., & Sons, Inc. (See Cuthbert, Robert F., assignor.)
Timmis, Harold E., Dublin, Ireland. Coupling appliance for trailer vehicles, tilling implements, and the like. 1,450,526; Apr. 3.
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Topping Manufacturing Co., The. (See Leeds, Robert R., assignor.)
Tow, Edward. (See Pearson, M. E., and Tow.)
Trawford, Charles, Limited. (See Swann, William, assignor.)
Tréchot, François, Paris, France. Traction wheel with movable blades. 1,450,656; Apr. 3.
Trinca, Frederick, and H. Wolf, assignors to Ever Ready Auto Signal Co., Inc., New York, N. Y. Automobile signal. 1,450,765; Apr. 3.
Troidl, Nellie Y., Niagara Falls, N. Y. Educational appliance. 1,450,395; Apr. 3.
Trost, Harry, Troy, Ill. Piston-ring clamp. 1,450,527; Apr. 3.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. 1,450,267; Apr. 3.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tune, Thomas O. (See Greene, G. C., Tune, and Stamps.)
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Chain-track tractor. 1,450,465; Apr. 3.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Chain-track vehicle. 1,450,466; Apr. 3.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Machine for measuring fabrics. 1,450,268; Apr. 3.
Twitchell, Herbert E., assignor of one-half to A. Kriegonhofer, Hamilton, Ohio. Antiskid chain. 1,450,314; Apr. 3.
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Special Machine Company. (See Seymour, Dudley S., assignor.)
Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company, The. (See Neubert, Walter P., assignor.)
United Alloy Steel Corporation. (See Jamison, Charles R., assignor.)
United Alloy Steel Corporation. (See Sturm, Joseph, assignor.)
United Last Company. (See Schelter, George G., assignor.)
United Metal Spinning Co. (See Nacke, Karl, assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Bradford, C. M., and Bunker, assignors.)
United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
United Shoe Machinery Corporation. (See Hunt, Chester, assignor.)
Universal Arch Company. (See Miller, Charles E., assignor.)
Van Cleave, Charles N., Indianapolis, Ind. Coin-controlled lock. 1,450,825; Apr. 3.
Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Clamp device for electric conductors. 1,450,528; Apr. 3.
Vaughan, Jay W., Chicago, Ill. Band-saw-guide. 1,450,619; Apr. 3.
Viberg, Ernest R., Montreal, Quebec, Canada, assignor to S. H. Campbell, St. Louis, Mo. Car-uncoupling device. 1,450,341; Apr. 3.
Viertels, Ephraim, New York, N. Y. Protector for shoes. 1,450,396; Apr. 3.
Voelker, Edward, St. Louis, Mo. Direction signal and parking light for vehicles. 1,450,876; Apr. 3.
Vortex Mfg. Co., The. (See Barbieri, Cesare, assignor.)
Wable, John H., et al. (See Snyder, Samuel W., assignor.)
Wade, Joseph. (See Ordung, Henry H., assignor.)
Wahlen, Gustavus A. N., Louisville, Ky. Attachment for rakes. 1,450,877; Apr. 3.
Walden-Worcester, Inc. (See Bellows, Warren S., assignor.)
Walker, Edward M., Detroit, Mich. Toy shooter, 1,450,342; Apr. 3.
Walker, Joseph L., Baton Rouge, La. Sawing machine. 1,450,657; Apr. 3.
Walker, William H., and H. Goff, Parsons, Tenn. Dirigible headlight. 1,450,194; Apr. 3.
Walser, Joseph J., Ann Arbor, Mich., and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Inking mechanism. 1,450,269; Apr. 3.
Walser, Joseph J., Ann Arbor, Mich., and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Inking mechanism. 1,450,270; Apr. 3.
Walten, Max, Washington, D. C. Coupling device. 1,450,826; Apr. 3.
Warnick, Michael, assignor to Warnick Oil Heater Syndicate, Los Angeles, Calif. Oil-well heater. 1,450,658; Apr. 3.
Warnick Oil Heater Syndicate. (See Warnick, Michael, assignor.)
Warren Clock Company. (See Warren, Henry E., assignor.)
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. System for regulating frequency. 1,450,620; Apr. 3.
Watch Protector Corporation. (See Geto, Max M., assignor.)
Waterbury Buckle Co. (See Maltby, Julius, assignor.)
Watkins, Joseph B., assignor of one-half to R. D. Rosier, Willow Springs, Mo. Oil burner. 1,450,530; Apr. 3.
Weaver, Frank R. (See Marshall, C. J., and Weaver.)
Webb, Ellen R., Denver, Colo. Toy. Des. 62,176; Apr. 3.
Weber, Guillaume, Hayange, Lorraine, assignor to Societe les Petits Fils de Francois de Wendel et Cie., Paris, France. Liquid-air blast cartridge. 1,450,621; Apr. 3.
Weber, Leona M., now by degree of divorce L. M. Case, Portland, Oreg. Child's vehicle. 1,450,397; Apr. 3.
Webster, James C., Topeka, Kans. Hotel key check. 1,450,878; Apr. 3.
Weeks, John A., Secretary of War of the United States of America. (See McNary, James E., assignor.)

Welkert, Charles H. and H., Vesta, Minn. Haystacker. 1,450,271; Apr. 3.
Welkert, Henry. (See Welkert, Charles H. and H.)
Wels, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Thread-breaking mechanism. 1,450,531; Apr. 3.
Weisel, Oscar W. (See Fisher, Raymond, assignor.)
Wells, Alfred A. (See Ellis, C., and Wells.)
Wells, Newton C., and H. J. Meyer, Los Angeles, Calif.; said Meyer assignor to said Wells. Butt gauge. 1,450,676; Apr. 3.
Wenzel, Jacob B., Bloom, Colo. Packing ring and making the same. 1,450,568; Apr. 3.
Werner, Eugene, Highland Park, Mich. Needle and needle holder. 1,450,879; Apr. 3.
Wescott, William B., Wellesley, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic-film-feeding mechanism. 1,450,343; Apr. 3.
Wesnigk, Erwin, Berlin, Germany. Three-wheeled automobile. 1,450,622; Apr. 3.
West, Frank, East San Diego, Calif. Repairman's brake attachment for air brakes. 1,450,272; Apr. 3.
Western Electric Company. (See Lundell, A. E., and Thompson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Weyland, Hermann, Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Silicate cement. 1,450,467; Apr. 3.
Whitall-Tatum Company. (See Howell, Wesley E., assignor.)
White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)
White, William E., Citronelle, Ala. Automobile fender attachment. 1,450,532; Apr. 3.
Whittaker, John, Wilpshire, R. Bradshaw and J. Briggs, deceased, Rishton, near Blackburn, M. Briggs, administratrix; said administratrix and said Bradshaw assignors to Whittaker Loom Company Limited, Preston, Lancaster County, England. Weft-replenishing mechanism for looms. 1,450,623; Apr. 3.
Whittaker Loom Company Limited. (See Whittaker J., Bradshaw, and Briggs, assignors.)
Whittier, Earle O. (See Sherman, J. M., and Whittier.)
Wichita Scraper Drag Company, The. (See Winters, Edward B., assignor.)
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor frame suspension. 1,450,468; Apr. 3.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor construction. 1,450,469; Apr. 3.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Single-point frame suspension. 1,450,470; Apr. 3.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor tread link. 1,450,471; Apr. 3.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Suspension for tractors. 1,450,472; Apr. 3.
Wilcox, William A., Tacoma, Wash. Shipping box. 1,450,273; Apr. 3.
Wilde, Eben F., assignor to The Baer & Wilde Company, Attleboro, Mass. Cuff button. 1,450,344; Apr. 3.
Wilkens, Gesine, administratrix. (See Wilkens, Herman L.)
Wilkens, Herman L., deceased, Ridgewood, N. J.; A. G. Wilkens, administratrix. Portable lavatory. 1,450,474; Apr. 3.
Williams, Albert H., assignor to Ionite Storage Battery Co., Worcester, Mass. Storage battery and producing the same. 1,450,533; Apr. 3.
Williams, Jesse A., Baltimore, Md. Ironing board. 1,450,766; Apr. 3.
Williams, Joseph C., Cleveland, Ohio. Ripsaw sticker head. 1,450,659; Apr. 3.
Williams, Robert R., Chicago, Ill., and H. L. J. Haller, Cincinnati, Ohio, assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Apparatus for producing ketones. 1,450,569; Apr. 3.
Wilson, Edgar H., Chartiers Township, Allegheny County, assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa. Gas producer. 1,450,767; Apr. 3.
Wintemute, Willson E., Vancouver, British Columbia, Canada. Oar sleeve and collar. 1,450,475; Apr. 3.
Winter, Arthur, Jersey City, N. J., assignor of one-half to F. H. La Pierre. Pen. 1,450,398; Apr. 3.
Winters, Edward B., Coffeyville, assignor, by mesne assignments, to The Wichita Scraper Drag Company, Sedgwick County, Kans. Road drag and scraper. 1,450,195; Apr. 3.
Witte, Meinhard, St. Paul, Minn. Radiator. 1,450,399; Apr. 3.
Wolna, Benjamin A., South River, N. J., assignor of one-half to A. L. Johnson, New York, N. Y. Self-adjusting door latch. 1,450,624; Apr. 3.
Wolf, Henry. (See Trinca, F., and Wolf.)
Wolff, August L., Chicago, Ill. Internal-combustion engine. 1,450,400; Apr. 3.
Wood, Edwin W., Lockridge, Okla. Animal poke for restraining stock. 1,450,401; Apr. 3.
Wood, Frederick P., assignor to American Can Company, New York, N. Y. Moistureproof container body. 1,450,476; Apr. 3.
Wood, George, Seattle, Wash., assignor to A. J. Gerrard, Chicago, Ill. Box-strapping bench. 1,450,315; Apr. 3.
Wood, Sidney C., assignor to Chautauqua Hygienic Institute, Inc., Jamestown, N. Y. Bath tray. 1,450,827; Apr. 3.
Woodford, Robert S. (See Reese, C. C., Buzzo, and Woodford.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Worthington Pump and Machinery Corporation. (See Eads, Harry B., assignor.)
Wottle, Hans, Vienna, Austria. Split belt pulley. 1,450,880; Apr. 3.
Wright, Ernest B., Upper Montclair, N. J., assignor to Hanlon & Goodman Company, New York, N. Y. Brush. 1,450,534; Apr. 3.
Wunder, Frank F., Valley Falls, Kans. Clutch holder. 1,450,316; Apr. 3.
Wylie, William H., Jennings, Kans. Portable leveling apparatus for mounted machinery. 1,450,196; Apr. 3.
Yates, P. B., Machine Company. (See Marshall, C. J., and Weaver, assignors.)
Yates, William G., Cleveland, and G. C. Fatscher, Lakewood, assignors to B. R. Deming, Cleveland, Ohio. Ironing machine. 1,450,402; Apr. 3.
Yoder, Guldin G., Boyertown, Pa. Hat holder. 1,450,535; Apr. 3.
Yont, Charles A., assignor to The Flint Electric and Manufacturing Company, Denver, Colo. Oil-circuit closer. 1,450,403; Apr. 3.
Young, Edward W. (See Young, J. S., Young, and Schecher.)
Young, Edward W., administrator. (See Young, John S.)
Young, John S., deceased, by E. W. Young, administrator, E. W. Young, and J. L. Schecher, assignors to J. L. Schecher, Los Angeles, Calif. Caster. Re15,570; Apr. 3.
Zellers, Mahlon M., Belleville, Ill. Attachment for ironing boards. 1,450,274; Apr. 3.
Zilocki, Giordano, Granton, assignor of thirty per cent to N. Partenope, West New York, N. J. Reversing mechanism for drive shafts. 1,450,536; Apr. 3.
Zukerberg, David, Newark, N. J. Bag. 1,450,570; Apr. 3.
Zwickey, Clifford J., North St. Paul, Minn. Sport car. 1,450,197; Apr. 3.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. A. E. Culley. 1,450,251; Apr. 3.
Aerial projection, Apparatus for. M. Schiesari. 1,450,263; Apr. 3.
Agitators, Driving mechanism for. A. H. Alberger. 1,450,660; Apr. 3.
Air, Machine for filtering compressed. C. B. Parker. 1,450,561; Apr. 3.
Aircraft landing indicator. R. Courtois Suffit. 1,450,431; Apr. 3.
Amusement apparatus. P. A. Lalle and C. F. Fowler. 1,450,669; Apr. 3.
Amusement device. O. B. Hunter. 1,450,634; Apr. 3.
Anglecock, Self-locking. R. E. McGahey. 1,450,811; Apr. 3.
Antiskid chain. H. E. Twitchell. 1,450,314; Apr. 3.
Antiskid device. M. J. La Riviere. 1,450,779; Apr. 3.
Armature. J. K. Lencke. 1,450,599; Apr. 3.
Auger bits, Mechanism for manufacture of. B. H. Daulton and C. B. Robinson. 1,450,252; Apr. 3.
Augers, Ratchet device for. P. Hudson. 1,450,440; Apr. 3.
Automobile. R. R. Kirsch. 1,450,684; Apr. 3.
Automobile bumper. J. F. Beans. 1,450,165; Apr. 3.
Automobile chain fastener and tightener. H. Rasche. 1,450,453; Apr. 3.
Automobile cooling apparatus. C. Seymour. 1,450,650; Apr. 3.
Automobile fender attachment. W. E. White. 1,450,532; Apr. 3.
Automobile memorandum attachment. H. A. Nelson. 1,450,446; Apr. 3.
Automobile protective device. J. H. Sharp. 1,450,336; Apr. 3.
Automobile signal. M. D. Shiverick. 1,450,337; Apr. 3.
Automobile signal. F. Trinca and H. Wolf. 1,450,765; Apr. 3.
Automobile steering mechanism, Knuckle joint for. E. Olson. 1,450,780; Apr. 3.
Automobile, Three-wheeled. E. Wesnigk. 1,450,622; Apr. 3.
Automobile winch. A. E. Norris. 1,450,301–2; Apr. 3.
Automobile windshields, Attachment shield for. H. H. Ilich. 1,450,551; Apr. 3.
Automobiles, Headlight installation for. M. P. Nickols. 1,450,510; Apr. 3.
Automobiles, Lighting accessory for. W. S. McKenzie and R. Richardson. 1,450,324; Apr. 3.
Automobiles, Transmission lock for. A. B. Lang. 1,450,212; Apr. 3.
Automobiles, Visor for use with. G. L. Lamb. 1,450,809; Apr. 3.
Bacon-stringing machine. J. Dvorak. 1,450,667; Apr. 3.
Badge. A. B. Lemon. 1,450,689; Apr. 3.
Badge, button, and the like holder. C. F. Gaunt. 1,450,721; Apr. 3.
Bag. D. Zukerberg. 1,450,570; Apr. 3.
Bait, Artificial. W. Q. Hummell. 1,450,777; Apr. 3.
Bat, Baseball. F. Sadenwater. 1,450,646; Apr. 3.
Bath, Portable and collapsible shower. C. Nenoff. 1,450,218; Apr. 3.
Bath tray. S. C. Wood. 1,450,827; Apr. 3.
Bathtub with heating appliance, Portable. M. H. McGuire. 1,450,444; Apr. 3.
Battery: *See*—
Secondary or storage battery. — Storage battery.
Battery and producing the same, Storage. A. H. Williams. 1,450,533; Apr. 3.
Bearing. M. A. Ross. 1,450,307–9; Apr. 3.
Bed. T. H. Griffith. 1,450,497; Apr. 3.
Beet topper. H. L. Sparks. 1,450,872; Apr. 3.
Bench, Box-strapping. G. Wood. 1,450,315; Apr. 3.
Berry-picker outfit. G. H. Owens. 1,450,221; Apr. 3.
Bifocal, Making a fused. L. W. Bugbee. 1,450,711; Apr. 3.
Billiard-cue-tip chalker. E. Hill. 1,450,741; Apr. 3.
Binder, Loose-leaf. C. D. Trussell. 1,450,267; Apr. 3.
Binder, Push-harvester. S. Olson. 1,450,384; Apr. 3.
Bituminous matter, Distilling. W. Meischke-Smith. 1,450,327; Apr. 3.
Blanket or similar article. F. A. Andrews. Des. 62,161–2; Apr. 3.
Block: *See*—
Building block. — Soldering block.
Concrete stair block.
Bloomers. W. A. Goldsmith. 1,450,437; Apr. 3.
Board: *See*—
Composition board. — Ironing board.
Drying board. — Window board.
Board and engine brace, Instrument. W. Bethke. 1,450,791; Apr. 3.
Boards, Attachment for ironing. M. M. Zellers. 1,450,274; Apr. 3.
Boll-weevil trap. L. L. Moore. 1,450,382; Apr. 3.
Bolt: *See*—
Utility bolt.
Bookbinding. E. K. Robinson. 1,450,261; Apr. 3.
Bottle cap, Milk. T. F. Roney. 1,450,517; Apr. 3.
Bowl or the like. L. W. Rice. Des. 62,175; Apr. 3.
Box: *See*—
Display box. — Pasteboard box.
Fire box. — Reducible size box.
Garment box. — Shipping box.
Box covers, Wrapping for candy. J. H. Rook. 1,450,230; Apr. 3.
Boxes and elements thereof, Making. C. Holly. 1,450,681; Apr. 3.
Brace: *See*—
Frame brace.
Bracket: *See*—
Scaffold bracket.
Brake: *See*—
Carriage brake. — Hand brake.
Brake band. W. M. Parkison. 1,450,448; Apr. 3.
Brakes, Repairman's brake attachment for air. F. West. 1,450,272; Apr. 3.
Braking apparatus, Fluid-pressure. J. W. Cross. 1,450,432; Apr. 3.
Bread, Making. D. Chidlow. 1,450,483; Apr. 3.
Brick and tile machine. R. H. McElroy, J. D. Cite, and A. G. Langenkamp. 1,450,306; Apr. 3.
Bridge, Material-handling. R. E. Sheal. 1,450,735; Apr. 3.
Bridge or crane for lifting, carrying, or sustaining loads, Divisible and adjustable. F. E. M. Diard. 1,450,492; Apr. 3.
Bristles, Installation for the washing and combing of pigs. D. Magny. 1,450,325; Apr. 3.
Brush. E. B. Wright. 1,450,534; Apr. 3.
Brush holder, Shaving-. M. Greenburg. Des. 62,166; Apr. 3.
Bucket protector. E. L. Horton. 1,450,632; Apr. 3.
Buckle, Strap. J. Maltby. 1,450,509; Apr. 3.
Buffer for pickers. C. W. Holbrook. 1,450,726; Apr. 3.
Building block. J. Barnes. 1,450,784; Apr. 3.
Building construction. R. S. Maclean. 1,450,731; Apr. 3.
Building unit. H. Belerbach. 1,450,240; Apr. 3.
Burner: *See*—
Incense burner. — Sulphur burner.
Oil burner.
Burner. J. F. Higgins. 1,450,631; Apr. 3.
Butt gauge. N. C. Wells and H. J. Meyer. 1,450,676; Apr. 3.
Button, Cuff. E. F. Wilde. 1,450,344; Apr. 3.
Cabinet. J. Becker. 1,450,575; Apr. 3.
Cabinet construction. C. R. Jamison. 1,450,180; Apr. 3.
Cable-building machine. H. W. Fisher and N. C. Davis. 1,450,584; Apr. 3.
Cable bumper. K. O. Schauman. 1,450,262; Apr. 3.
Caddy, Collapsible. S. N. Leopold. 1,450,690; Apr. 3.
Cake former. O. Sheppard, jr. 1,450,457; Apr. 3.
Calculating machine. M. G. de Simone. 1,450,718; Apr. 3.
Calculating machine. E. Richter. 1,450,516; Apr. 3.
Camera, Motion-picture. E. W. Davis. 1,450,433; Apr. 3.
Can: *See*—
Friction-top can.
Can machinery, Seaming head for. H. L. Guenther. 1,450,418; Apr. 3.
Can opener. J. B. Sanders. 1,450,894; Apr. 3.
Can sealing machines, Cap sterilizer and can centering plate for. A. N. Cramer. 1,450,356; Apr. 3.
Candlestick and flower vase, Combined. M. H. Connor. 1,450,429; Apr. 3.
Car-door fastener. J. E. Bialock. 1,450,242; Apr. 3.
Car door, Grain-. J. E. Drake. 1,450,842; Apr. 3.
Car door, Hopper-. W. M. Sheehan. 1,450,615; Apr. 3.
Car, Folding push. G. Thomas. 1,450,193; Apr. 3.
Car, Hand. O. B. Gaudin. 1,450,846; Apr. 3.

Car, Mine. M. E. Lohr. 1,450,637; Apr. 3.
Car roof. C. D. Bonsall. 1,450,243; Apr. 3.
Car, Sport. C. J. Zwickey. 1,450,197; Apr. 3.
Car-uncoupling device. E. R. Viberg. 1,450,341; Apr. 3.
Car unloader. E. O. Taliaferro. 1,450,313; Apr. 3.
Cars, Corrugated-metal end for freight. V. E. Sisson. 1,450,233; Apr. 3.
Cars, Coupling for railway. M. K. Carr. 1,450,248; Apr. 3.
Cars, Sheet-metal end for railway. G. G. Gilpin. 1,450,255; Apr. 3.
Carburetor. J. M. Flannery. 1,450,628; Apr. 3.
Carburetor. C. E. Summers. 1,450,762; Apr. 3.
Carriage brake, Baby-. R. C. Starbard. 1,450,873; Apr. 3.
Cartridge, Explosive. S. Decker. 1,450,666; Apr. 3.
Cartridge, Liquid-air blast. G. Weber. 1,450,621; Apr. 3.
Carving or reproducing machine. N. Morici. 1,450,698; Apr. 3.
Caster. J. S. Young. Re15,570; Apr. 3.
Castings, Production of hollow metal. F. Jombart. 1,450,532; Apr. 3.
Catalyzers and manufacturing the same, Nickeliferous. A. Granichstadten and E. Sittig. 1,450,174; Apr. 3.
Catamenial bandage. R. R. Rider. 1,450,755; Apr. 3.
Cathode tube, Hot-. J. Slepian. 1,450,265; Apr. 3.
Cellulose-ether solvent and composition. S. J. Carroll. 1,450,714–6; Apr. 3.
Cement, Silicate. H. Weyland. 1,450,467; Apr. 3.
Cementing dumper. B. Cousins. 1,450,485; Apr. 3.
Chain hook, Detachable-. J. G. Rieff. 1,450,388–9; Apr. 3.
Chains and the like, Latch device for skid. J. T. Barber. 1,450,199; Apr. 3.
Churn. D. Ayers and H. D. Fossett. 1,450,238; Apr. 3.
Cinematographic-film feeding mechanism. W. B. Wescott. 1,450,343; Apr. 3.
Circuits, Balancing arrangement for multiplex carrier. L. Espenschied. 1,450,254; Apr. 3.
Circuits, Protection of alternating-current-distributing. R. V. Bingay. 1,450,423; Apr. 3.
Clamp: *See*—
Piston-ring clamp. Typewriter clamp.
Plate clamp.
Classifying and concentrating apparatus, Mineral. W. W. Richardson. 1,450,515; Apr. 3.
Cleaner: *See*—
Comb cleaner.
Clipping machine. C. W. Harvey. 1,450,490; Apr. 3.
Closure. A. H. Johnson. 1,450,857; Apr. 3.
Cloth for clothing, Machine for treating bolts of. C. E. Murray. 1,450,701; Apr. 3.
Clutch. J. W. Crowley, Jr. 1,450,202; Apr. 3.
Clutch. W. B. Gross. 1,450,804; Apr. 3.
Clutch holder. F. F. Wunder. 1,450,316; Apr. 3.
Clutch, Hydraulic. E. S. Greifenstatt. 1,450,679; Apr. 3.
Clutch, Pneumatic. C. E. G. Johnson. 1,450,441; Apr. 3.
Clutch release, Automatic. E. S. Russell. 1,450,757; Apr. 3.
Coal coking. S. R. Illingworth. 1,450,888; Apr. 3.
Coal in heating boilers, Means for insuring complete combustion of. R. W. Burckhardt. 1,450,201; Apr. 3.
Coin-controlled lock. M. Cohen. 1,450,355; Apr. 3.
Coin controlled lock. C. N. Van Cleave. 1,450,825; Apr. 3.
Colloids, Drying. G. P. Lunt. 1,450,377; Apr. 3.
Comb cleaner. A. J. Bennett. 1,450,576; Apr. 3.
Composition board. H. C. Dorn. 1,450,582; Apr. 3.
Concrete stair block. A. Anderson. 1,450,404; Apr. 3.
Conduit outlet boxes, Lining for. W. M. Silliman. 1,450,310; Apr. 3.
Conveyer. A. J. Rebstock. 1,450,225–6; Apr. 3.
Conveyers, Transfer mechanism for. W. H. Clay. 1,450,354; Apr. 3.
Cooking vessel. H. Kunin. 1,450,687; Apr. 3.
Corrugated fastener, Nailer for. C. A. Macdonald. 1,450,730; Apr. 3.
Cotton gins, Lint-cleaning attachment for. J. W. Guynes. 1,450,592; Apr. 3.
Coupling. A. E. Crozier. 1,450,665; Apr. 3.
Coupling device. M. Walton. 1,450,826; Apr. 3.
Coupling yoke. W. F. Grun. 1,450,591; Apr. 3.
Cow-tail holder. J. Haering. 1,450,774; Apr. 3.
Cradle. W. Lacki. 1,450,535; Apr. 3.
Cream lifter. L. S. Bender. 1,450,789; Apr. 3.
Crystal formation. E. Thomson. 1,450,464; Apr. 3.
Cue tip. S. Nemecek. 1,450,605; Apr. 3.
Cup: *See*—
Grease cup.
Curtain holder. N. J. Bishop. 1,450,539; Apr. 3.
Cutter: *See*—
Lace cutter.
Cycle stand and brush holder. A. Guazzoni. 1,450,680; Apr. 3.
Dehydrating apparatus. S. M. Dick. 1,450,840; Apr. 3.
Dental device for spreading tissues. J. A. Heidbrink. 1,450,419; Apr. 3.
Dental impression tray. G. S. Monson. 1,450,639; Apr. 3.
Desk stand base. E. A. Bohlman. 1,450,169; Apr. 3.
Dipper, Ice-cream. W. G. Heimerdinger. 1,450,886; Apr. 3.
Dish and manufacture, Sundae. C. Barbieri. 1,450,832; Apr. 3.
Display box. F. E. Allworth. 1,450,477; Apr. 3.
Display box. E. W. Poppe. 1,450,450; Apr. 3.
Door closer, starter, and lock, Combined. A. E. Small. 1,450,234; Apr. 3.
Door, grain. J. R. Billings, jr. 1,450,702; Apr. 3.
Door latch. E. T. Sherman. 1,450,188; Apr. 3.
Doors, Attachment for. G. E. Reed. 1,450,227; Apr. 3.
Doors, Carrier for disappearing. R. R. Leeds. 1,450,729; Apr. 3.
Draft equalizer. R. E. Anderson. 1,450,781; Apr. 3.
Draft regulator and chimney cleaner. D. E. Raber. 1,450,451; Apr. 3.
Drag and scraper, Road. E. B. Winters. 1,450,195; Apr. 3.
Drill bit and collar therefor. J. P. Flournoy, jr. 1,450,845; Apr. 3.
Drilling apparatus, Rock-. J. and R. G. Hanson. 1,450,208; Apr. 3.
Drilling operations, Draw work for standard and rotary. J. M. Kellerman. 1,450,743; Apr. 3.
Drilling rigs, Backout device for. W. L. Childs. 1,450,249; Apr. 3.
Driving and driven elements, Reverse-movement control for. C. P. Cirac. 1,450,409; Apr. 3.
Drying board, Skin-. E. B. Ayres. 1,450,782; Apr. 3.
Ear manipulator. F. A. Schultz. 1,450,612; Apr. 3.
Easel. C. H. Schutz. 1,450,821; Apr. 3.
Educational appliance. N. Y. Troidl. 1,450,395; Apr. 3.
Egg tray. F. E. Hilt. 1,450,368; Apr. 3.
Electric coil. P. Gilinson. 1,450,362; Apr. 3.
Electric conductors, Clamp device for. T. Varney. 1,450,528; Apr. 3.
Electric currents, Apparatus for and method of controlling. G. W. Pierce. 1,450,749; Apr. 3.
Electric discharge device, Vacuum. H. W. Edmundson and W. T. Munro. 1,450,413; Apr. 3.
Electric machine, Dynam-. S. H. Mortensen. 1,450,902; Apr. 3.
Electric machines, Armature for dynamo-. A. Steinbach. 1,450,521; Apr. 3.
Electrodes, Apparatus for moving furnace. W. Dyessen. 1,450,668; Apr. 3.
Element, Suspending. A. Hopkins. 1,450,176; Apr. 3.
Elevator: *See*—
Grain elevator.
Emulsion and making same, Bituminous. L. Kirschbraun. 1,450,685; Apr. 3.
End gate. J. M. Gray. 1,450,364; Apr. 3.
Engine: *See*—
Internal-combustion engine.
Engine, method and means for feeding same, Internal-combustion. D. Cole. 1,450,250; Apr. 3.
Engine piston, Internal-combustion. H. J. Houpert. 1,450,177; Apr. 3.
Engine-supporting stand. N. Nielsen. 1,450,511; Apr. 3.
Engines, Attachment for internal-combustion. J. Stutika. 1,450,652; Apr. 3.
Engines, Burner for internal-combustion. E. L. Lowe. 1,450,691; Apr. 3.
Engines, Mixer for gas. G. R. Hudson. 1,450,550; Apr. 3.
Excavating machine. M. S. Longnaker. Re15,571; Apr. 3.
Exercising apparatus. P. S. Medart and F. Albach. 1,450,300; Apr. 3.
Exhibitor, Changeable. M. A. Grip. 1,450,850; Apr. 3.
Exploder, Safety. H. McEwan. 1,450,672; Apr. 3.
Eyelashes and making same, Artificial. C. Nessler. 1,450,259; Apr. 3.
Fabric and manufacturing same, Decorative. W. E. Hazeltine. 1,450,367; Apr. 3.
Fastener. I. D. Shaw. 1,450,891; Apr. 3.
Fastening device. T. Ferry. 1,450,583; Apr. 3.
Fastening-inserting machine. A. Bates. 1,450,164; Apr. 3.
Feed collet and making same. O. A. Smith. 1,450,189; Apr. 3.
Feeder, Automatic. J. Brodner. 1,450,710; Apr. 3.
Feeder, Collapsible poultry. M. R. Jacobus and W. F. Burditt, jr. 1,450,258; Apr. 3.
Feeder, Poultry. W. E. Honsinger. 1,450,175; Apr. 3.
Fenceposts, Wire fastener for. F. Pracht. 1,450,644; Apr. 3.
Fender: *See*—
Plow fender. Vehicle fender.
File and file cabinet for letters or other papers. W. S. Shaft. 1,450,614; Apr. 3.
File, Loose-leaf-index. J. T. Quigley. 1,450,304; Apr. 3.
Filing equipment. J. T. Quigley. 1,450,752; Apr. 3.
Film-repair tool. R. C. Dohe. 1,450,795; Apr. 3.
Filter, Oil. G. E. Putnam. 1,450,750; Apr. 3.
Filter, Sanitary self-cleaning. P. S. Frick and C. E. Robinson. 1,450,770; Apr. 3.
Fire box, Locomotive. L. Parish. 1,450,607; Apr. 3.
Fire escape, Window. J. F. Gaken. 1,450,207; Apr. 3.
Firearm. E. D. Henry. 1,450,596; Apr. 3.
Firearm of the breakdown type, Single-barrel. E. F. Fines. 1,450,496; Apr. 3.
Fish-cleaning machine. D. MacPhee. 1,450,506; Apr. 3.
Fishhook. W. Filipowski. 1,450,798; Apr. 3.
Fish-landing net and handle, Hand-operating extensible. J. W. McElhany. 1,450,322; Apr. 3.
Fish rod. R. A. Mull. 1,450,700; Apr. 3.
Fishing reels, Tension oil cap for. F. M. Case. 1,450,738; Apr. 3.
Fishing tool. W. Casey. 1,450,541; Apr. 3.
Flash light. C. W. Harvey. 1,450,500; Apr. 3.
Flash light apparatus, Door construction for. E. L. Johnson. 1,450,502; Apr. 3.

Floor construction, Reenforced. K. R. Schuster. 1,450,187; Apr. 3.
Flowerpot, Self-watering. W. W. Hudson. 1,450,633; Apr. 3.
Flowmeter. R. W. Schroeder. 1,450,611; Apr. 3.
Fluid-controlling device, Elastic-. A. L. Browne. 1,450,245; Apr. 3.
Fluid-pressure system. W. E. Irish. 1,450,372; Apr. 3.
Fly-eliminating screen. J. E. Jones. 1,450,374; Apr. 3.
Flying machine, Lever controlled paddle-action. A. B. Roney. 1,450,454; Apr. 3.
Flytrap. J. W. Hildreth. 1,450,855; Apr. 3.
Frame: *See*—
Picture-card frame. Washing-machine frame.
Frame brace. M. E. Pearson and E. Tow. 1,450,513; Apr. 3.
Frame suspension, Single-point. E. E. Wickersham. 1,450,470; Apr. 3.
Friction-top can. G. A. Leighton. 1,450,422; Apr. 3.
Fruit-peeling machine. M. O. Johnson. 1,450,295; Apr. 3.
Fruits and vegetables for shipment, Preparing. T. J. Peters. 1,450,866; Apr. 3.
Fuel, Apparatus for producing gaseous. M. Sklovsky. 1,450,338; Apr. 3.
Fuel feeder. R. C. Newhouse. 1,450,903; Apr. 3.
Furnace: *See*—
Locomotive furnace. Steam-generator furnace.
Roasting furnace.
Furnace control. E. McLean. 1,450,693; Apr. 3.
Furnaces, Method and device for the heating of material in electric. E. A. A. Grönwall. 1,450,543; Apr. 3.
Furniture attachment. J. M. Biggs. 1,450,662; Apr. 3.
Fuses, Indicator for electric. F. C. La Mar. 1,450,670; Apr. 3.
Game apparatus. K. O. Stromée. 1,450,874; Apr. 3.
Game trap. J. Hardaway. 1,450,775; Apr. 3.
Garment box. R. F. Cuthbert. 1,450,171; Apr. 3.
Garment-form supporter. T. C. Freshour and B. M. Jennings. 1,450,416; Apr. 3.
Gas mixer, Fuel-. H. R. Micka. 1,450,814; Apr. 3.
Gas producer. E. H. Wilson. 1,450,767; Apr. 3.
Gases from gas producers, Treatment of. O. Piette. 1,450,562; Apr. 3.
Gasifier. W. M. Sublette. 1,450,761; Apr. 3.
Gate: *See*—
End gate.
Gate. O. L. Cox. 1,450,486; Apr. 3.
Gate-fastening device. J. Harris. 1,450,630; Apr. 3.
Gauge: *See*—
Butt gauge. Wheel-truing gauge.
Gear, Gradual-change. C. E. Henriod. 1,450,596; Apr. 3.
Gear, Progressive-change-speed. C. E. Henriod. 1,450,594; Apr. 3.
Gear set, Variable-speed. H. J. Taylor. 1,450,266; Apr. 3.
Gearing, Differential. J. A. Hazelton. 1,450,210; Apr. 3.
Generator: *See*—
Steam generator.
Glass-drawing apparatus. W. Gray. 1,450,590; Apr. 3.
Glass globe, Prismatic. W. A. Dorey. Des. 62,187; Apr. 3.
Glass, Leer conveyer for sheet. H. E. Allen. 1,450,571; Apr. 3.
Glassware, Holder for illuminating. H. C. Adam. Des. 62,179–83; Apr. 3.
Governor. A. F. Meyer. 1,450,380; Apr. 3.
Grain elevator. H. R. Straight. 1,450,461; Apr. 3.
Grease cup, Hard-. F. C. Grant. 1,450,773; Apr. 3.
Grill. H. C. Mieville. 1,450,381; Apr. 3.
Guitar. F. F. Gerl. Des. 62,165; Apr. 3.
Gun. C. A. F. Maze, dit D. Maze. 1,450,558; Apr. 3.
Gun, Automatic. C. G. Swebilius. 1,450,653; Apr. 3.
Hair curler. W. W. Stumph. 1,450,523; Apr. 3.
Hair roll or puff. M. C. Damon. 1,450,491; Apr. 3.
Hair-waving comb. C. Laufe. 1,450,860; Apr. 3.
Hairpin. H. R. Baylis. 1,450,785; Apr. 3.
Hairpin. W. S. Bechtold. 1,450,239; Apr. 3.
Hammer. C. Green. 1,450,849; Apr. 3.
Hammer, Adjustable multiple disk and shredding. E. H. Frickey. 1,450,173; Apr. 3.
Hammering machine. C. Sieper. 1,450,895; Apr. 3.
Hand brake. S. B. Haseltine. 1,450,366; Apr. 3.
Hat holder. G. G. Yoder. 1,450,535; Apr. 3.
Hats, Crease-retaining device for. J. Korn. 1,450,181; Apr. 3.
Haystacker. C. H. and H. Weikert. 1,450,271; Apr. 3.
Headlight. D. L. Davis. 1,450,581; Apr. 3.
Headlight attachment. C. A. Nelson. 1,450,862; Apr. 3.
Headlight, Automobile. W. D. Ott and H. F. Griffin. 1,450,642; Apr. 3.
Headlight, Dirigible. W. H. Walker and H. Goff. 1,450,194; Apr. 3.
Heater: *See*—
Well heater.
Heating and cooling device, Combined. G. Graff and W. A. Kennedy. 1,450,589; Apr. 3.
Heating appliance, Steam-. P. Bergeon. 1,450,833; Apr. 3.
Heating element and making same, Electrical resistance. F. Hodson. 1,450,725; Apr. 3.
Heel construction. J. C. Stiles. 1,450,705; Apr. 3.
Helmet. J. E. McNary. 1,450,379; Apr. 3.
Hens, Attachment for. C. E. Carpenter. 1,450,247; Apr. 3.
Hog-trough apparatus. A. B. Shively. 1,450,519; Apr. 3.
Hoisting machine. H. C. Beckwith. 1,450,882; Apr. 3.
Hub cap. J. H. Bourgon. Des. 62,163; Apr. 3.
Ice chute and run, Self-centering. G. Holtz and C. Gress. 1,450,887; Apr. 3.
Identification device. A. B. Hennech. 1,450,854; Apr. 3.
Ignition switch. W. Kaisling. 1,450,728; Apr. 3.
Ignition systems, Means for locating trouble in. A. Pache. 1,450,896; Apr. 3.
Impact-producing implement. E. Epstein. 1,450,435; Apr. 3.
Incense burner. J. O. Bentley. 1,450,790; Apr. 3.
Index, Adjustable. J. T. Quigley. 1,450,751; Apr. 3.
Indicator: *See*—
Aircraft landing indicator.
Indicator. D. C. Cox. 1,450,410; Apr. 3.
Ink, Printing. W. J. McElroy and J. Clarke. 1,450,692; Inking mechanism. J. J. Walser and H. Fankboner. 1,450,269–70; Apr. 3.
Insect and worm catcher. L. E. Baker. 1,450,538; Apr. 3.
Internal-combustion engine. A. N. Frisbie. 1,450,801; Apr. 3.
Internal-combustion engine. W. N. Long. 1,450,810; Apr. 3.
Internal-combustion engine. E. H. Tartrais. 1,450,567; Apr. 3.
Internal-combustion engine. A. L. Wolff. 1,450,400; Apr. 3.
Ironing board. J. A. Williams. 1,450,766; Apr. 3.
Ironing machine. W. G. Yates and G. C. Fatscher. 1,450,402; Apr. 3.
Isomeric trinitrotoluenes, Separating. C. M. Stine. 1,450,675; Apr. 3.
Jack: *See*—
Vehicle jack.
Jack support. J. M. Chappell and R. E. Edmondson. 1,450,482; Apr. 3.
Jacket for preliminary cure. T. Midgley. 1,450,328; Apr. 3.
Jar tops, Implement for removing. E. Beyer. 1,450,168; Apr. 3.
Jars, Implement for opening and sealing. F. A. Frost. 1,450,587; Apr. 3.
Joint: *See*—
Universal joint.
Joint or coupling, Universal. H. Hart-Spratt. 1,450,805; Apr. 3.
Ketone body and making same. C. Ellis and A. A. Wells. 1,450,493; Apr. 3.
Ketones, Apparatus for producing. R. R. Williams and H. L. J. Haller. 1,450,569; Apr. 3.
Kettle outlets, Making steam-jacketed. R. F. Salisbury. 1,450,231; Apr. 3.
Key check, Hotel. J. C. Webster. 1,450,878; Apr. 3.
Key fastener. B. H. Fuller. 1,450,588; Apr. 3.
Knitting machines, Take-up mechanism for. R. Fisher. 1,450,799; Apr. 3.
Lace cutter. L. N. Groner. 1,450,498; Apr. 3.
Ladder, Extension. R. M. Stolworthy. 1,450,312; Apr. 3.
Ladders, Safety device for. R. Mahoney. 1,450,694; Apr. 3.
Ladders, Safety head and track for traveling. F. W. Cornell. 1,450,430; Apr. 3.
Lamp, Carbide. L. E. Polhemus. 1,450,867; Apr. 3.
Lamp, Hanging. C. A. Smith. Des. 62,188; Apr. 3.
Lamp, Oil. H. Courteen. 1,450,580; Apr. 3.
Lamps, Elastic ring-shaped holder for small. F. F. Heine. 1,450,547; Apr. 3.
Lantern, Projecting. B. B. Isaacs and J. E. Marqua. 1,450,179; Apr. 3.
Last. G. G. Schelter. Re15,572; Apr. 3.
Latch. L. Ottinger. Re15,569; Apr. 3.
Latch, End-gate. J. M. Gray. 1,450,365; Apr. 3.
Latch, Gate. M. H. Judge. 1,450,443; Apr. 3.
Latch, Self-adjusting door. B. A. Woina. 1,450,624; Apr. 3.
Lathes, Milling, drilling, and grinding appliance for. L. Nicole. 1,450,447; Apr. 3.
Lavatory, Portable. H. L. Wilkens. 1,450,474; Apr. 3.
Lens shade. R. L. Stinchfield. 1,450,522; Apr. 3.
Level rod, Self-computing. E. P. Efferts. 1,450,360; Apr. 3.
Lifter: *See*—
Cream lifter.
Light: *See*—
Flash light.
Light reflector. W. R. McAnally. 1,450,376; Apr. 3.
Light signals, Indication means for. L. F. Howard. 1,450,548–9; Apr. 3.
Lighting-fixture arm. F. S. Crowell. Des. 62,184; Apr. 3.
Lighting fixture ring. T. E. Dahl. Des. 62,186; Apr. 3.
Lighting fixtures, Cast arm for. K. Nacke. Des. 62,177; Apr. 3.
Lighting fixtures, Ceiling fixture for. T. E. Dahl. Des. 62,185; Apr. 3.
Lighting fixtures, Husk for ball lamp socket cover for. K. Nacke. Des. 62,178; Apr. 3.
Liquids of different densities, Apparatus for separating. O. E. Hans. 1,450,545; Apr. 3.
Load-regulating means. H. M. Gassman. 1,450,720; Apr. 3.
Lobster trap. C. L. Keddy. 1,450,682; Apr. 3.
Lock: *See*—
Coin-controlled lock.
Lock. L. Friedman. 1,450,206; Apr. 3.

Locomotive arch. C. E. Miller. 1,450,606; Apr. 3.
Locomotive furnace. J. G. Robinson. 1,450,229; Apr. 3.
Locomotives, Superheater for. H. L. Ingersoll and T. L. Burton. 1,450,178; Apr. 3.
Looms, Weft-replenishing mechanism for. J. Whittaker, R. Bradshaw, and J. Briggs. 1,450,623; Apr. 3.
Machinery, Portable leveling apparatus for mounted. W. H. Wylie. 1,450,196; Apr. 3.
Mandrel, Winding. O. E. Cote. 1,450,717; Apr. 3.
Marking machine. W. E. Howell. 1,450,776; Apr. 3.
Measuring fabrics, Machine for. D. Turner. 1,450,268; Apr. 3.
Mechanical bird. J. W. Buck. 1,450,480; Apr. 3.
Mechanical movement. J. D. Moore. 1,450,184; Apr. 3.
Metal forming. H. A. Schwartz. 1,450,648; Apr. 3.
Metal mold. H. A. Myers. 1,450,186; Apr. 3.
Metals ductile, Heat-treatment method of rendering. E. Roth. 1,450,734; Apr. 3.
Milk-bottle receptacle. N. Grande. 1,450,772; Apr. 3.
Milk substitute, Powdered modified-. A. W. Bosworth. 1,450,826; Apr. 3.
Milling-machine adjustment and quick release. C. J. Marshall and F. R. Weaver. 1,450,695; Apr. 3.
Mills, Apparatus for entraining and removing fines from conical. H. W. Hardinge. 1,450,289; Apr. 3.
Mills, Oversize return for. H. W. Hardinge. 1,450,290; Apr. 3.
Mining apparatus. E. C. Morgan. 1,450,603; Apr. 3.
Mixer: *See*—
Gas mixer.
Moistener. L. E. Porter. 1,450,817; Apr. 3.
Moistureproof container body. F. P. Wood. 1,450,476; Apr. 3.
Mold: *See*—
Metal mold.
Molds, Apparatus for making open. E. Schiegries. 1,450,871; Apr. 3.
Molder's press. W. J. MacNeill. 1,450,892; Apr. 3.
Monorail frog. W. Schwier. 1,450,758; Apr. 3.
Mop. W. J. McKeever. 1,450,556; Apr. 3.
Mop. M. P. and J. McNaughton. 1,450,445; Apr. 3.
Mop holder and wringer. E. M. McNamara. 1,450,673; Apr. 3.
Motor controller. H. W. Cheney. 1,450,898; Apr. 3.
Motor set, Intermittingly-operating. R. S. Smith and J. L. Adams, jr. 1,450,339; Apr. 3.
Motor system, Intermittingly-operating. R. S. Smith and J. L. Adams, jr. 1,450,340; Apr. 3.
Music-notation device, Elementary-. C. H. Randolph. 1,450,868; Apr. 3.
Needle and needle holder. E. Werner. 1,450,879; Apr. 3.
Nonconducting material. R. Illemann. 1,450,856; Apr. 3.
Oar sleeve and collar. W. E. Wintemute. 1,450,475; Apr. 3.
Oil burner. J. B. Watkins. 1,450,530; Apr. 3.
Oil burner, Hydrocarbon-. G. F. Allen. 1,450,881; Apr. 3.
Oil-circuit closer. C. A. Yont. 1,450,403; Apr. 3.
Oils, Apparatus for treating. H. T. Maitland. 1,450,326; Apr. 3.
Oils, Purifying mineral. J. Smith. 1,450,617; Apr. 3.
Ovenware and holder therefor. H. Negbaur. 1,450,330; Apr. 3.
Package for incandescent mantles. J. P. Harris. 1,450,593; Apr. 3.
Packages from skeins, Preparing wound. W. G. Hannah. 1,450,544; Apr. 3.
Packing and shipping case for garments. J. T. Batts. 1,450,708; Apr. 3.
Packing ring and making the same. J. B. Wenzel. 1,450,568; Apr. 3.
Pad: *See*—
Seat pad.
Paint. J. T. Lawrence. 1,450,688; Apr. 3.
Paper made from papaik fiber. A. Lendle. 1,450,600; Apr. 3.
Paper-making machine. W. S. Crandell. 1,450,488; Apr. 3.
Partition, Sectional. E. W. Reaugh. 1,450,733; Apr. 3.
Pasteboard box. H. Schwenneke. 1,450,334; Apr. 3.
Pasteboard, sheet metal, and the like, Rolling mill for manufacturing corrugated. A. Beran. 1,450,351; Apr. 3.
Pen. A. Winter. 1,450,398; Apr. 3.
Pencil. J. R. Fitton. 1,450,436; Apr. 3.
Perforations, Finishing the edges of. J. A. Brogan. 1,450,244; Apr. 3.
Phonograph record blanks and making the same, Material for. J. P. Elliott. 1,450,739; Apr. 3.
Phonograph, Recording. R. Hase. 1,450,439; Apr. 3.
Phonographs, Automatic stop for. F. G. Mayer. 1,450,299; Apr. 3.
Photographic film with a carrier permeable to water. J. E. Brandenberger. 1,450,479; Apr. 3.
Photographic image, Making a colored. L. F. Douglass. 1,450,412; Apr. 3.
Phthalimids, Producing. H. D. Gibbs. 1,450,678; Apr. 3.
Pickling solution, Method and apparatus for reclaiming spent. H. S. Marsh and R. S. Cochran. 1,450,217; Apr. 3.
Pickling solutions, Method and apparatus for recovering spent. H. S. Marsh and R. S. Cochran. 1,450,216; Apr. 3.
Picture-card frame. F. Sonn. 1,450,190; Apr. 3.
Picture films, Apparatus for direct observation of. C. Lépine. 1,450,555; Apr. 3.
Picture machine, Moving-. D. O. Seaman. 1,450,455; Apr. 3.
Picture projection, Motion-. C. F. Perham. 1,450,514; Apr. 3.
Pipe-bending machine. W. H. Beers. 1,450,317; Apr. 3.
Pipe supporting means. C. E. Norman. 1,450,640; Apr. 3.
Pipe union. H. E. Paine. 1,450,606; Apr. 3.
Pipe wrench. J. M. Martin. 1,450,297; Apr. 3.
Pistol, Machine. T. Bergmann. 1,450,834; Apr. 3.
Piston-ring clamp. H. Trost. 1,450,527; Apr. 3.
Piston rings, Making. J. H. Bruninga. 1,450,200; Apr. 3.
Planter, Corn. J. Scott. 1,450,613; Apr. 3.
Plants, Machine for distributing powder over growing. G. F. Sproull. 1,450,651; Apr. 3.
Plastic material, Heated mold for. C. F. Burroughs. 1,450,481; Apr. 3.
Plastic material or concrete for paving and other purposes, Transporting. R. C. Stubbs. 1,450,760; Apr. 3.
Plastic materials, Corrugating or like treatment of sheet. W. Pattison. 1,450,222; Apr. 3.
Plate clamp. L. A. Schmidt. 1,450,609; Apr. 3.
Plate holding and guiding apparatus. T. F. Kelley. 1,450,744; Apr. 3.
Plate or similar article. P. Jenner. Des. 62,170; Apr. 3.
Pliers. A. P. Teselsky. 1,450,875; Apr. 3.
Plow-depth-adjusting device. K. S. Gingerick. 1,450,417; Apr. 3.
Plow fender. R. M. Anderson. 1,450,828; Apr. 3.
Plow, Motor. S. V. V. Prince. 1,450,385; Apr. 3.
Plows, Power lift for tractor. A. W. Reynolds. 1,450,754; Apr. 3.
Plug, Gauge. C. E. Myers. 1,450,185; Apr. 3.
Plumbing apparatus. J. L. Fleming. 1,450,844; Apr. 3.
Poke, Animal. D. Ayers and H. D. Fossett. 1,450,237; Apr. 3.
Poke for restraining stock, Animal. E. W. Wood. 1,450,401; Apr. 3.
Polishing and grinding machine. C. L. Hawes. 1,450,853; Apr. 3.
Powder container, Toilet-. T. J. Regan. 1,450,386; Apr. 3.
Powder-dusting attachment. E. B. Raley. 1,450,223; Apr. 3.
Power-transmission jacks, Cooling device for. G. W. Kirkpatrick. 1,450,858; Apr. 3.
Power-unit control, Automatic. W. W. Bucher. 1,450,793; Apr. 3.
Preserving apples. C. Brooks. 1,450,408; Apr. 3.
Press: *See*—
Molder's press. Straightening press.
Presser, Tie. W. H. Atwood. 1,450,831; Apr. 3.
Pressure regulator. J. L. Anderson and S. Plumley. 1,450,236; Apr. 3.
Pressure regulator. B. Bannister. 1,450,783; Apr. 3.
Pressure regulator and cut-off. J. B. Morrow. 1,450,893; Apr. 3.
Primer and gas-saving device, Combined. J. C. Bennett. 1,450,883; Apr. 3.
Priming device. E. T. Curran. 1,450,490; Apr. 3.
Projectile. C. Chilowsky. 1,450,579; Apr. 3.
Projecting screen. J. W. Peck, jr. 1,450,864; Apr. 3.
Propionates by the action of bacteria, Purification of. J. M. Sherman and E. O. Whittier. 1,450,392; Apr. 3.
Protective device. H. G. French. 1,450,415; Apr. 3.
Puller: *See*—
Spike puller.
Pulley, Split belt. H. Wottle. 1,450,880; Apr. 3.
Pulverizer and quack-grass destroyer. A. A. Eich. 1,450,318; Apr. 3.
Pulverizer, Bog. J. R. Keller. 1,450,503; Apr. 3.
Pump. G. L. Kollberg. 1,450,901; Apr. 3.
Pump. G. B. Maegly. 1,450,215; Apr. 3.
Pump construction. A. H. Reed. 1,450,333; Apr. 3.
Pump, Deep-well. H. Schwab. 1,450,647; Apr. 3.
Pump, Double-acting deep-well. R. C. Lego. 1,450,213; Apr. 3.
Pump for oil containers, Portable liquid. E. A. Bienenstok. 1,450,406; Apr. 3.
Pump, Pneumatic stage. J. E. McDowell. 1,450,505; Apr. 3.
Pump, Reciprocating power air. R. W. Adams. 1,450,345; Apr. 3.
Radiator. M. Witte. 1,450,399; Apr. 3.
Radiator core. P. H. Lonergan. 1,450,746; Apr. 3.
Radiator, steam cooker, and warming oven, Combined. C. M. Geiger. 1,450,847; Apr. 3.
Radius rods, Brace for. J. W. Bond. 1,450,426; Apr. 3.
Railway-crossing gate. A. D. Goodwin. 1,450,285; Apr. 3.
Railway-crossing signal. W. Dickhart. 1,450,841; Apr. 3.
Railway-crossing signal. J. R. Stogner and P. Adams. 1,450,824; Apr. 3.
Railway crossings, Automatic gate for. W. H. Enfield. 1,450,797; Apr. 3.
Railway draft rigging. C. E. Dath. 1,450,358; Apr. 3.
Railway steel tie and rail fastener, Combined. O. Sammiatelli. 1,450,820; Apr. 3.
Railway switch. W. H. Swindell and L. Phillips. 1,450,763; Apr. 3.
Railway switches, Plunger lock with circuit controller for. W. P. Neubert. 1,450,331; Apr. 3.
Rake attachment. G. A. N. Wahlen. 1,450,877; Apr. 3.
Range and bearing keeper. H. C. Ford. 1,450,585; Apr. 3.

Range, Gas. F. W. and G. A. Robertshaw. 1,450,756; Apr. 3.
Ratchet plate and die. A. E. Kopp. 1,450,211; Apr. 3.
Razor. F. Mossberg. 1,450,604; Apr. 3.
Razor, Safety. F. Kulhawy. 1,450,859; Apr. 3.
Reamer holder, Floating. J. E. Sheuman. 1,450,822; Apr. 3.
Receptacle, Garbage. S. Glenn. 1,450,363; Apr. 3.
Receptacle stand. L. F. Carey. 1,450,718; Apr. 3.
Receptacles, Closure for. I. Newman. 1,450,260; Apr. 3.
Recording mechanism and dissemination method. W. H. Cannard and G. A. Shaffer. 1,450,427; Apr. 3.
Reducible box, Size-. H. F. Maraton. 1,450,674; Apr. 3.
Registering and squaring machine. V. Royle. 1,450,608; Apr. 3.
Regulating frequency, System for. H. E. Warren. 1,450,620; Apr. 3.
Regulator: *See*—
Pressure regulator.
Resilient wheel. M. J. Helmick and T. L. Agnew. 1,450,740; Apr. 3.
Resilient wheel. J. C. Jackson. 1,450,778; Apr. 3.
Resilient wheel. I. Lincoln. 1,450,671; Apr. 3.
Resonator, Piezo-electric. W. G. Cady. 1,450,246; Apr. 3.
Reversing and control switch. O. Bahls. 1,450,572; Apr. 3.
Ribbon mount, Medal-. C. F. Gaunt. 1,450,722; Apr. 3.
Rifle sight. I. C. Spencer. 1,450,823; Apr. 3.
Rifle sight, Telescope. W. S. Belding. 1,450,349; Apr. 3.
Ring twisting or spinning device. H. G. Beede. 1,450,348; Apr. 3.
Rings, Making asbestos friction clutch. L. Kirschbraun. 1,450,319; Apr. 3.
Rings, Making resilient split. J. G. Anderson. 1,450,346; Apr. 3.
Ringing system, Party-line revertive. A. E. Lundell and G. Thompson. 1,450,321; Apr. 3.
Ripsaw sticker head. J. C. Williams. 1,450,659; Apr. 3.
Rivet holder. W. E. Ferguson. 1,450,414; Apr. 3.
Riveting machine. J. O. Bailey. 1,450,198; Apr. 3.
Roasting furnace. H. C. Holthoff. 1,450,900; Apr. 3.
Rock drills, Column or support for. L. C. Bayles. 1,450,709; Apr. 3.
Rod: *See*—
Fish rod. Level rod.
Roller: *See*—
Shade roller.
Roller mills, Device and process for feeding. A. Gillespie. 1,450,723; Apr. 3.
Roof structure. A. Lamm and J. F. Schroeder. 1,450,182; Apr. 3.
Roof-supporting method and apparatus, Mine-. E. C. Morgan. 1,450,329; Apr. 3.
Roofing, Making prepared. W. H. Cady. 1,450,712; Apr. 3.
Rubber waste, Acidizing. R. A. Terhune. 1,450,462; Apr. 3.
Safety device. C. M. Bradford and D. W. Bunker. 1,450,407; Apr. 3.
Sanitary seat. F. Galizia. 1,450,283; Apr. 3.
Saw guide, Band-. J. W. Vaughan. 1,450,619; Apr. 3.
Saw, Portable rotary. C. E. Smith. 1,450,459; Apr. 3.
Saw set. W. H. Mack. 1,450,812; Apr. 3.
Saw-setting tool. C. P. Niesman. 1,450,220; Apr. 3.
Saws, Lubricating device for. J. Eszto. 1,450,884; Apr. 3.
Sawhorse, Carpenter's folding. W. W. Reinelt. 1,450,869; Apr. 3.
Sawing machine. J. L. Walker. 1,450,657; Apr. 3.
Sawing machine, Crosscut. E. W. Curtis. 1,450,357; Apr. 3.
Sawing trees, Saw for. H. Boner. 1,450,540; Apr. 3.
Scaffold bracket. J. F. Graff. 1,450,286; Apr. 3.
Scale. R. Craig. 1,450,487; Apr. 3.
Scoring device, Game-. A. R. Hager. 1,450,852; Apr. 3.
Scraper, Road. J. F. Neunaber and L. E. Bartels. 1,450,815; Apr. 3.
Screen: *See*—
Fly-eliminating screen. Vehicle screen.
Projecting screen.
Screw driver. P. De Brown. 1,450,203; Apr. 3.
Seat: *See*—
Sanitary seat.
Seat cover. J. Reece. 1,450,387; Apr. 3.
Seat pad. J. Reece. 1,450,703; Apr. 3.
Secondary or storage battery. E. W. Smith. 1,450,565; Apr. 3.
Segregating apparatus. L. S. Robinson. 1,450,390; Apr. 3.
Separation and filter system and apparatus. C. D. Morton. 1,450,560; Apr. 3.
Separator. D. C. Ruth. 1,450,645; Apr. 3.
Serving apparatus. O. H. Doerfler. 1,450,434; Apr. 3.
Sewing machines, Driving mechanism for. A. T. Mace. 1,450,602; Apr. 3.
Sewing machines, Feeding mechanism for. D. S. Seymour. 1,450,456; Apr. 3.
Shackle construction, Spring-. D. G. Roos. 1,450,306; Apr. 3.
Shade roller. W. F. Smith. 1,450,520; Apr. 3.
Shafting, Flexible. R. Goldschmidt. 1,450,284; Apr. 3.
Shafts, Reversing mechanism for drive. G. Zilocchi. 1,450,536; Apr. 3.
Shaker. W. C. Chick. 1,450,279; Apr. 3.
Sheet and tin-plate packs, Opening. W. Newby. 1,450,863; Apr. 3.
Sheet collecting and associating mechanism. H. M. Barber. 1,450,573-4; Apr. 3.
Sheet-feeding machine. C. E. Christophel. Re15,573; Apr. 3.
Shelving, Sheet-metal. J. Sturm. 1,450,191; Apr. 3.
Shipping box. W. A. Wilcox. 1,450,273; Apr. 3.
Shock absorber. R. M. Lovejoy. 1,450,601; Apr. 3.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,450,383; Apr. 3.
Shoe-part blanks, Cutting. C. Hunt. 1,450,257; Apr. 3.
Shoe protector. E. Viertels. 1,450,396; Apr. 3.
Sifting-testing machine. W. J. Bell. 1,450,166; Apr. 3.
Signal: *See*—
Automobile signal. Tire-deflation signal.
Railway-crossing signal. Traffic signal.
Signaling apparatus, Submarine. W. Hahnemann. 1,450,287; Apr. 3.
Sink drainer. L. S. Grigg. 1,450,629; Apr. 3.
Skylight. H. E. Marks. 1,450,557; Apr. 3.
Sled. C. S. Beebe. 1,450,424; Apr. 3.
Sled, Motor-driven. L. R. Pietras. 1,450,332; Apr. 3.
Slide-actuating mechanism. E. J. Kearney. 1,450,598; Apr. 3.
Slot cover, Automatically-operated. S. W. Huff. 1,450,727; Apr. 3.
Socket, Reversible handle. D. G. Hadsell. 1,450,438; Apr. 3.
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Spark breaker. C. E. Hull. 1,450,501; Apr. 3.
Spike puller. G. M. Clark. 1,450,664; Apr. 3.
Spittoon. G. D. Heck. 1,450,806; Apr. 3.
Spoon, Trolling. J. Hansen. 1,450,546; Apr. 3.
Sprayer, Portable. W. W. Keene. 1,450,742; Apr. 3.
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Spring wheel. J. A. Morrow. 1,450,748; Apr. 3.
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Stop cock. R. M. Manning. 1,450,861; Apr. 3.
Storage battery. N. B. Laing and F. C. Rindfish. 1,450,889; Apr. 3.
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Stuffing box and the like. E. W. and M. J. Kavanaugh. 1,450,421; Apr. 3.
Sugar-feeding machine. C. C. Reese, J. T. Buzzo, and R. S. Woodford. 1,450,423; Apr. 3.
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Telephone signaling system. W. A. Rhodes. 1,450,305; Apr. 3.
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Thread breaking mechanism. J. P. Weis. 1,450,531; Apr. 3.
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Tire-building machines, Tension device for. T. Midgley. 1,450,747; Apr. 3.
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Traffic signal. A. Latshaw. 1,450,636; Apr. 3.
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Tree holder. E. G. Hines. 1,450,807; Apr. 3.
Trolley and feed wire clamp. L. E. Armentrout. 1,450,347; Apr. 3.
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Vehicle jack. I. V. Lucas. 1,450,504; Apr. 3.
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Vehicle signal, Electrically-operated. L. McGuire. 1,450,214; Apr. 3.
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Vehicle theft-preventing device. E. V. Coy. 1,450,411; Apr. 3.
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Vehicles, Cooling system for motor. H. D. Jones. 1,450,442; Apr. 3.
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Vehicles, tilling implements, and the like, Coupling appliance for trailer. H. E. Timmis. 1,450,526; Apr. 3.
Vending device. W. D. Anderson. 1,450,829–30; Apr. 3.
Vending machine. R. Cusick. 1,450,839; Apr. 3.
Ventilation system. W. B. Glisson. 1,450,771; Apr. 3.
Ventilator. F. D. Sammes. 1,450,819; Apr. 3.
Vernier adjuster. H. T. Smith. 1,450,566; Apr. 3.
Vessel, Submarine salvage. J. C. Setlow. 1,450,232; Apr. 3.
Vulcanizer. D. G. Chandler. 1,450,794; Apr. 3.
Waffle and hot-cake iron. E. N. Brown and A. M. Lambert. 1,450,277; Apr. 3.
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Washer. W. S. Alexander. 1,450,625; Apr. 3.
Washing machine. F. Simonye. 1,450,393; Apr. 3.
Washing-machine frame. W. H. Huenergardt. 1,450,808; Apr. 3.
Watch chains, Swivel hook for. H. J. Schitterer. 1,450,264; Apr. 3.
Watch protector. M. M. Geto. 1,450,848; Apr. 3.
Water-heating system. T. H. Drynan. 1,450,796; Apr. 3.
Water-soluble product and making the same. J. Pelc. 1,450,865; Apr. 3.
Welding tool. J. Jerry. 1,450,294; Apr. 3.
Well heater, Oil. M. Warnick. 1,450,658; Apr. 2.
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Window construction. A. R. Mitchell. 1,450,697; Apr. 3.
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CLASSIFICATION OF PATENTS

ISSUED APRIL 3, 1923.

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90— 13.1: 1,450,698
17: 1,450,447
21: 1,450,598
91— 54.4: 1,450,817
67.9: 1,450,367
68: 1,450,712
70: 1,450,319
92— 3: 1,450,600
43: 1,450,488
93— 40: 1,450,681
95— 9: 1,450,479
40: 1,450,522
88: 1,450,412
97— 10: 1,450,318
30: 1,450,385
41: 1,450,503
73: 1,450,754
98: 1,450,417
188: 1,450,828
98— 27: 1,450,771
30: 1,450,819
31: 1,450,537
99— 6: 1,450,368
8: 1,450,408
10: 1,450,483
11: 1,450,836
1,450,866
69— 13: 1,450,407
100— 51: 1,450,457
57: 1,450,831
101— 350: 1,450,269
1,450,270
378: 1,450,609
102— 6: 1,450,621
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8: 1,450,672
29: 1,450,579
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103— 41: 1,450,901
200: 1,450,213
204: 1,450,215
218: 1,450,406
220: 1,450,333
248: 1,450,505
104— 32: 1,450,702
60: 1,450,669
126: 1,450,492
145: 1,450,727
162: 1,450,371
105— 29: 1,450,735
89: 1,450,846
250: 1,450,615
364: 1,450,637
410: 1,450,233
1,450,255
106— 6: 1,450,467
20: 1,450,856
40: 1,450,714
1,450,715
1,450,716
107— 48: 1,450,886
108— 5.4: 1,450,243
9: 1,450,182
98: 1,450,731
16: 1,450,557
110— 22: 1,450,229
44: 1,450,586
72: 1,450,201
87: 1,450,607
111— 32: 1,450,613
112— 213: 1,450,456
220: 1,450,602
252: 1,450,531
113— 14: 1,450,356
24: 1,450,418
99: 1,450,452
112: 1,450,231
114— 20: 1,450,597
115— 1: 1,450,197
116— 33: 1,450,336
1,450,411
34: 1,450,709
36: 1,450,553
39: 1,450,616
49: 1,450,576
117— 36: 1,450,584
118— 56: 1,450,348
119— 18: 1,450,494
52: 1,450,175
119— 52: 1,450,258
56: 1,450,710
61: 1,450,519
97: 1,450,247
105: 1,450,774
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141: 1,450,237
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188: 1,450,793
108: 1,450,250
119: 1,450,883
1,450,603
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187.5: 1,450,490
195: 1,450,684
126— 20: 1,450,847
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38: 1,450,870
39: 1,450,756
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350: 1,450,444
127— 9: 1,450,840
128— 17: 1,450,419
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297: 1,450,612
129— 16: 1,450,304
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130— 17: 1,450,645
131— 22: 1,450,359
132— 29: 1,450,576
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134— 1: 1,450,523
136— 18: 1,450,436
139— 22: 1,450,726
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143— 43: 1,450,459
57: 1,450,657
68: 1,450,357
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65: 1,450,619
144— 228: 1,450,659
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145— 35: 1,450,323
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149— 21: 1,450,782
150— 12: 1,450,570
151— 2: 1,450,460
152— 1: 1,450,818
2: 1,450,163
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153— 84: 1,450,740
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49: 1,450,748
52: 1,450,671
46: 1,450,317
53: 1,450,373
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154— 10: 1,450,747
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156— 19: 1,450,539
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121: 1,450,795
167— 12: 1,450,790
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38: 1,450,219
171— 206: 1,450,599
207: 1,450,521
252: 1,450,902
172— 179: 1,450,572
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237: 1,450,339
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359: 1,450,172
175— 21: 1,450,362
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181— 0.5: 1,450,287
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183— 42: 1,450,561
64: 1,450,501
184— 38: 1,450,773
1: 1,450,434
186— 20: 1,450,873
30: 1,450,409
88: 1,450,601
249: 1,450,448
191— 37: 1,450,276
43: 1,450,347
87: 1,450,885
192— 56: 1,450,202
59: 1,450,441
61: 1,450,679
67: 1,450,804
122: 1,450,209
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194— 51: 1,450,355
70: 1,450,539
74: 1,450,825
196— 26: 1,450,617
27: 1,450,327
197— 46: 1,450,627
105: 1,450,269
135: 1,450,737
198— 26: 1,450,226
43: 1,450,354

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adam, Frank, Electric Co., St. Louis, Mo. Electrical switches, switchboards, switch boxes, etc. 166,559; Apr. 10; Serial No. 169,269; published Jan. 2, 1923.

Alabama Overall Company, Scottsboro, Ala. 166,688; Apr. 10; Serial No. 167,504; published Jan. 2, 1923.

Albert Neckwear Manufacturing Company, Dallas, Tex. Neckties, cravats, and neckscarfs. 166,603; Apr. 10; Serial No. 149,792; published June 6, 1922.

Alcone Knitting Mills, San Francisco, Calif. Men's knitted coats for outer wear. 166,600; Apr. 10; Serial No. 150,427; published Jan. 16, 1923.

Allcock S., & Co. Ltd., Redditch, England. Fishhooks. 166,780; Apr. 10.

American Hard Rubber Company, Hempstead and New York, N. Y. Dials made of hard rubber for radio apparatus. 166,617; Apr. 10; Serial No. 168,093; published Jan. 30, 1923.

American La France Fire Engine Company, Inc., Elmira, N. Y. Hand fire extinguisher. 166,680; Apr. 10; Serial No. 169,965; published Jan. 9, 1923.

American Radio and Research Corporation, Medford, Mass. Electric motors. 166,547; Apr. 10; Serial No. 138,207; published Dec. 26, 1922.

American Syrup Company, Inc., Boston, Mass. Jams, jellies, and icing. 166,634; Apr. 20. Serial No. 168,192; published Feb. 6, 1923.

American Watch & Diamond Company, New York, N. Y. Imitation-pearl necklaces. 166,553; Apr. 10; Serial No. 171,007; published Jan. 16, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Clocks. 166,767; Apr. 10.

Athens Hosiery Mills, Athens, Tenn. Hosiery for men. 166,631; Apr. 10; Serial No. 168,289; published Jan. 9, 1923.

Automatic Electric Company, Chicago, Ill. Automatic telephone systems. 166,580; Apr. 10. Serial No. 171,721; published Jan. 9, 1923.

Automatic Meshbag Co., Providence, R. I. Ladies' hand bags. 166,566; Apr. 10; Serial No. 167,449; published Jan. 2, 1923.

Baby Shop, Inc., The, San Francisco, Calif. Children's rompers, overalls, and dresses. 166,616; Apr. 10; Serial No. 121,143; published Apr. 11, 1922.

Baird-North Company, Providence, R. I. Artificial or reconstructed pearls. 166,587; Apr. 10; Serial No. 171,680; published Jan. 2, 1923.

Baldur-Pianofort-Fabrik Aktien-Gesellschaft, Frankfort-on-the-Main, Germany. Musical instruments and supplies. 166,533; Apr. 10; Serial No. 164,787; published Jan. 2, 1923.

Bamberger, L., & Co., Newark, N. J. Corsets and brassières. 166,726; Apr. 10; Serial No. 160,486; published Jan. 16, 1923.

Barbara Ann Dress Shops, Inc., New York, N. Y. Dresses. 166,665; Apr. 10; Serial No. 165,055; published Jan. 2, 1923.

Baum, Max, New York, N. Y. Hosiery. 166,644; Apr. 10. Serial No. 163,615; published Jan. 2, 1923.

Belcraft Shirt Company, New York, N. Y. Men's dress shirts. 166,696; Apr. 10; Serial No. 166,872; published Jan. 2, 1923.

Benjamin Moseley Co., The, Needham, Mass. Sweaters. 166,618; Apr. 10; Serial No. 169,220; published Jan. 9, 1923.

Bernstein, Samuel, & Sons, New York, N. Y. Children's suits and blouses. 166,640; Apr.10; Serial No. 166,164; published Dec. 12, 1922.

Betty Lou College Candy Company, Atlanta, Ga. Candies. 166,542; Apr. 10; Serial No. 152,670; published Jan. 9, 1923.

Blue Star Overall Company, Norwich, Conn. Overalls and jumpers. 166,680; Apr. 10; Serial No. 168,095; published Dec. 5, 1922.

Bonk, John J., doing business as Lucile Pearl Company, New York, N. Y. Pearls. 166,573; Apr. 10; Serial No. 171,200; published Jan. 2, 1923.

Bossard Railway Signal Corporation, Troy, N. Y. Electric flashers for intermittent signals and the like. 166,563; Apr. 10; Serial No. 168,667; published Dec. 26, 1922.

Brignall, Guy E., doing business as Lite Soap Company, Aurora, Ill. Household soap. 166,614; Apr. 10; Serial No. 167,159; published Dec. 26, 1922.

Brooklyn Heights Canning Company, Los Angeles, Calif. Tomato sauce and paste, fruit preserves, canned fruits and vegetables. 166,659; Apr. 10; Serial No. 164,855; published Jan. 30, 1923.

Brown, Betty, Co., Peoria, Ill. Ladies' dresses. 166,605; Apr. 10; Serial No. 148,920; published Dec. 12, 1922.

Bu-Ti-Maid Petticoat & Pettipants Co., New York, N. Y. Ladies' undergarments. 166,620; Apr. 10; Serial No. 169,051; published Jan. 2, 1923.

Byer, The House of, Malden, Mass. Waists and hosiery. 166,626; Apr. 10; Serial No. 168,612; published Jan. 9, 1923.

Cameron, Viola R., New York, N. Y. Fuel-treating devices to be installed in the path of internal-combustible mixtures in internal-combustion engines. 166,678; Apr. 10; Serial No. 170,260; published Jan. 9, 1923.

Camors, J. B., & Company Inc., New Orleans, La. Wheat flour. 166,716; Apr. 10; Serial No. 155,160; published Aug. 1, 1922.

Carson Pirie Scott & Co., Chicago, Ill. Children's underwear, of textile fabric. 166,721; Apr. 10; Serial No. 161,807; published Jan. 2, 1923.

Carson Pirie Scott & Co., Chicago, Ill. Women's, misses', girls', and children's hats, caps, and bonnets. 166,722; Apr. 10; Serial No. 161,805; published Jan. 2, 1923.

Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Grain separating and cleaning machines. 166,683; Apr. 10; Serial No. 168,204; published Jan. 23, 1923.

Casey, Thomas F., doing business as Ryan & Casey, Greenfield, Mass. Nonalcoholic beverages and sirups for making same. 166,744; Apr. 10.

Central California Berry Growers Association, San Francisco, Calif. Fresh berries. 166,668; Apr. 10; Serial No. 165,270; published Feb. 6, 1923.

Central Piano Co., Chicago, Ill. Pianos. 166,545; Apr. 10; Serial No. 149,890; published Dec. 26, 1922.

Chicago Radio Laboratory, Chicago, Ill. Electrical apparatus, radio telephone and telegraph and signaling and transmission of power apparatus. 166,554; Apr. 10; Serial No. 170,969; published Jan. 9, 1923.

Chipman's, Chas., Sons Co. Inc., New York, N. Y. Hosiery. 166,630; Apr. 10; Serial No. 168,450; published Dec. 19, 1922.

Chester Knitting Mills, St. Louis, Mo. Hosiery. 166,638–9; Apr. 10; Serial No. 166,171–2; published Jan. 2, 1923.

Cohen, A. M., Baltimore, Md. Men's, young men's, and boys' outer clothing. 166,607; Apr. 10; Serial No. 148,435; published Jan. 31, 1922.

Cohen, Friedlander & Martin Co., The, Toledo, Ohio. Ladies' suits and coats. 166,598; Apr. 10; Serial No. 152,003; published Jan. 2, 1923.

Cohn & Rosenberger, Inc., New York, N. Y. Buckles, necklaces, bracelets, hat ornaments, etc. 166,571; Apr. 10; Serial No. 165,912; published Dec. 26, 1922.

Cohn, Michael, doing business as Cohn's Credit Clothing Co., Brooklyn, N. Y. Men's and young men's suits and overcoats. 166,669; Apr. 10; Serial No. 165,349; published Dec. 19, 1922.

Cohn's Credit Clothing Co. (See Cohn, Michael.)

Consolidated Accessories Manufacturers Corporation, Frederick, Md. Pumps. 166,654; Apr. 10; Serial No. 149,214; published Jan. 9, 1923.

Corona Pen Company, Janesville, Wis. Fountain pens. 166,743; Apr. 10.

Crysler, J. M., Co., Boston, Mass. Dress, negligee, and work shirts, blouses, and sweaters. 166,633; Apr. 10; Serial No. 168,207; published Jan. 9, 1923.

Culm Burn Equipment Company, Inc., Philadelphia, Pa. Furnace grates. 166,757; Apr. 10.

Darsie Manufacturing Company, Los Angeles, Calif. Headlights, spotlights, and electric lamps. 166,581; Apr. 10; Serial No. 171,907; published Jan. 9, 1923.

Darwin & Milner, Inc., Cleveland, Ohio. Hack saws. 166,681–2; Apr. 10; Serial Nos. 169,536–7; published Jan. 9, 1923.

Davis, George H., doing business as Dur-A-Tone Record Co., Orange, N. J. Talking-machine records. 166,583; Apr. 10; Serial No. 172,148; published Jan. 23, 1923.

Davistone Company, The, Chicago, Ill. Radio horns and phonographic tone chambers used as sound amplifiers for radio receiving apparatus. 166,569; Apr. 10; Serial No. 166,435; published Dec. 26, 1922.

De Bevoise, Chas. R., Co., Newark, N. J. Brassières. 166,727; Apr. 10; Serial No. 159,744; published July 18, 1922.

Demmerle & Co., New York, N. Y. Straw hats. 166,667; Apr. 10; Serial No. 165,274; published Dec. 12, 1922.

Director, Hyman, Los Angeles, Calif. Ladies' cloaks, suits, and skirts. 166,704; Apr. 10; Serial No. 167,385; published Dec. 12, 1923.

Du Bois Machine Company, Albany, N. Y. Piston rings. 166,739; Apr. 10.

Dur-A-Tone Record Co. (See Davis, George H.)

Dyer Company, The, Cambridge, Mass. Radio apparatus. 166,556; Apr. 10; Serial No. 170,478; published Jan. 9, 1923.

Eclipse Specialty Manufacturing Company, Chicago, Ill. Timers for internal-combustion engines. 166,576; Apr. 10; Serial No. 171,266; published Jan. 9, 1923.

Elgin Stove & Oven Co., Elgin, Ill. Portable bake ovens, stoves, and ranges. 166,756; Apr. 10.

Electro-Magnetic Tool Company, Cicero, Ill. Electric drills, hammers, and grinders. 166,574; Apr. 10; Serial No. 171,068; published Jan. 9, 1923.

Ely Waist, Inc., New York, N. Y. Ladies' waists. 166,695; Apr. 10; Serial No. 166,824; published Dec. 19, 1922.

Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. 166,570; Apr. 10; Serial No. 166,298; published Jan. 16, 1923.

Estate of Constant Potential System, Fort Worth, Tex. Electrical apparatus consisting of an electrical generating machine and battery-charging benches. 166,537; Apr. 10; Serial No. 160,396; published Jan. 2, 1923.

Everplay Needle Co. (See Willat, Arnold F.)

Fairmount Electric and Manufacturing Company, The, Philadelphia, Pa. Radio apparatus. 166,558; Apr. 10; Serial No. 170,131; published Jan. 9, 1923.

Fairsex Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 166,624; Apr. 10; Serial No. 168,677; published Dec. 19, 1922.

Fisher, J. M., Co., Attleboro, Mass. Jewelry. 166,536; Apr. 10; Serial No. 160,490; published Dec. 26, 1922.

Flagg, Albert B., assignor to Flagg Ink Company, Inc., New York, N. Y. Writing fluids. 166,655; Apr. 10; Serial No. 148,139; published Dec. 26, 1922.

Flagg Ink Company. (See Flagg, Albert B., assignor.)

Fleckenstein, C. G., Company, Muskegon Heights, Mich. Leather. 166,737; Apr. 10.

Fleckenstein, C. G., Company, Muskegon Heights, Mich. Leather. 166,754–5; Apr. 10.

Flint, Howard, Ink Co., Detroit, Mich. Printing and lithographic inks. 166,684; Apr. 10; Serial No. 168,602; published Dec. 26, 1922.

Frank, Jerome, & Co., New York, N. Y. Dresses. 166,702; Apr. 10; Serial No. 167,719; published Jan. 9, 1923.

Fraser, Warren F., Company, Westboro, Mass. Piston pins. 166,650; Apr. 10; Serial No. 161,001; published Jan. 9, 1923.

French Ivory & Metal Corp., Providence, R. I. Cigarette cases of precious metal. 166,549; Apr. 10; Serial No. 132,522; published Dec. 26, 1921.

Fried & Gottheif, Vicksburg, Miss. Nonalcoholic, maltless beverages sold as soft drinks. 166,742; Apr. 10.

Galef, Jacques L., New York, N. Y. Shotguns and parts thereof. 166,585; Apr. 10; Serial No. 162,876; published Jan. 30, 1923.

G & W Electric Specialty Co., Chicago, Ill. Single and multiple conductor potheads, high and low tension potheads, cable-end bells, etc. 166,578; Apr. 10; Serial No. 171,638; published Jan. 9, 1923.

Gem Undergarment Co., Inc., New York, N. Y. Combination undergarment comprising brassière, drawers, and petticoat. 166,679; Apr. 10; Serial No. 168,467; published Dec. 19, 1922.

Gessing, C. J., & Sons Company, The, Cincinnati, Ohio. Clothing. 166,664; Apr. 10; Serial No. 165,016; published Dec. 19, 1922.

Gold Seal Co., Palisades Park, N. J. Phonograph needles. 166,582; Apr. 10; Serial No. 171,992; published Jan. 23, 1923.

Gold Seal Co., Palisades Park, N. J. Repeating attachments for phonographs. 166,539; Apr. 10; Serial No. 159,258; published Jan. 9, 1923.

Grant, W. T., Co., New York, N. Y. Children's hosiery. 166,715; Apr. 10; Serial No. 155,167; published May 9, 1922.

Greenberg, Nathan N., Philadelphia, Pa. Suits and coats for boys, dresses, rompers, and creepers for children. 166,643; Apr. 10; Serial No. 165,789; published Jan. 9, 1923.

Grossman, Elenore, New York. Sport clothes for women. 166,723; Apr. 10; Serial No. 160,936; published Jan. 9, 1923.

Halcolite Company, Inc., New York, N. Y. Electric-lighting fixtures and parts thereof. 166,572; Apr. 10; Serial No. 165,551; published Jan. 9, 1923.

Happ Brothers Co., doing business as American Mfg. Co., Macon, Ga. Overalls. 166,623; Apr. 10; Serial No. 168,843; published Dec. 19, 1922.

Harris & Barnett, New York, N. Y. Ladies' and misses' muslin and silk underwear. 166,625; Apr. 10; Serial No. 168,642; published Jan. 23, 1923.

Hartley, Freeman & Co., New York, N. Y. Cotton piece goods. 166,769; Apr. 10.

Haupt, Adolph, Brooklyn, N. Y. Composition, memorandum, and note books. 166,781; Apr. 10.

Haynes, Wm. S., Co., Boston, Mass. Flutes and piccolos. 166,575; Apr. 10; Serial No. 171,215; published Jan. 23, 1923.

Hearn, James A., & Son Inc., New York, N. Y. Phonographs and phonograph records. 166,593; Apr. 10; Serial No. 165,924; published Jan. 9, 1923.

Heileman, G., Brewing Co., La Crosse, Wis. Lager beer. 166,766–6; Apr. 10.

Higgin's Packing Company, Omaha, Nebr. Hams and bacon. 166,660; Apr. 10; Serial No. 164,908; published Jan. 30, 1923.

Hill, N. N., Brass Co., East Hampton, Conn. Toy telephones. 166,753; Apr. 10.

Himmer, Vitalis, New York, N. Y. Radiotelephone receiving sets and parts thereof. 166,561; Apr. 10; Serial No. 169,058; published Dec. 26, 1922.

Hitchings-Spence, Lynn, Mass. Electrical fixtures, lamp sockets, and brackets. 166,565; Apr. 10; Serial No. 167,615; published Dec. 26, 1922.

H. K. H Silk Co., The, Watertown, Conn., and New York, N. Y. Silk, linen, cotton, and fiber threads. 166,770; Apr. 10.

Homberg, Rudolph F., Boston, Mass. Women's and children's blouses, skirts, dresses, bloomers, and knickers. 166,621; Apr. 10; Serial No. 168,970; published Jan. 9, 1923.

Holtite Manufacturing Co., Baltimore, Md. Rubber heels for shoes. 166,552; Apr. 10; Serial No. 125,401; published Dec. 21, 1920.

House of Byer, The, Malden, Mass. Waists and hosiery. 166,628; Apr. 10; Serial No. 168,611; published Dec. 19, 1922.

Hygeia Glass Corporation, Buffalo, N. Y. Writing ink. 166,592; Apr. 10; Serial No. 165,996; published Dec. 26, 1922.

Indian Queen Silk Co., Bangor, Pa. Hosiery. 166,730; Apr. 10; Serial No. 169,303; published Jan. 9, 1923.

International Silver Company, Meriden, Conn. Silver-plated flatware consisting of spoons, forks, ladles, etc. 166,588; Apr. 10; Serial No. 171,272; published Jan. 23, 1923.

Jewel Phonoparts Company, Chicago, Ill. Reproducers, tone arms, tone modifiers, and automatic stops. 166,544; Apr. 10; Serial No. 150,539; published Dec. 26, 1922.

Jordan Marsh Company, Boston, Mass. Talking-machine needles. 166,584; Apr. 10; Serial No. 172,419; published Jan. 23, 1923.

Kaplan, Jacob, New York, N. Y. Baby bath robes. 166,632; Apr. 10; Serial No. 168,218; published Jan. 9, 1923.

Kastor, Adolph, & Bros., New York, N. Y. Razors and scissors. 166,651; Apr. 10; Serial No. 159,972; published May 9, 1922.

Kenilworth Manufacturing Co. Inc., New York, N. Y. Knickerbockers or bloomers. 166,661; Apr. 10; Serial No. 164,923; published Dec. 19, 1922.

Kenilworth Manufacturing Co. Inc., New York, N. Y. Knickerbockers or bloomers. 166,673; Apr. 10; Serial No. 165,553; published Dec. 19, 1922.

Kiddie Coat Manufacturing Co., New York, N. Y. Infants' and girls' coats. 166,649; Apr. 10; Serial No. 161,078; published Jan. 23, 1923.

Klein, Gordon & Company, Detroit, Mich. Hosiery, knit and cut underwear, knitted sweaters, and men's work shirts. 166,698; Apr. 10; Serial No. 168,047; published Dec. 12, 1922.

Knott, E. R., Machine Company, Boston, Mass. Electrical condensers. 166,564; Apr. 10; Serial No. 168,534; published Dec. 26, 1922.

Koehler Manufacturing Company, Marlboro, Mass. Storage batteries, mine lamps, charging apparatus for mine lamps, and parts of such articles and apparatus. 166,579; Apr. 10; Serial No. 171,643; published Jan. 9, 1923.

Lande & Miskend, New York, N. Y. Silk undergarments for women and children. 166,729; Apr. 10; Serial No. 169,364; published Jan. 23, 1923.

Lansburgh & Brother, Washington, D. C. Phonographs. 166,577; Apr. 10; Serial No. 171,424; published Jan. 23, 1923.

Lazrus, Benjamin, New York, N. Y. Watches. 166,589; Apr. 10; Serial No. 168,581; published Dec. 26, 1922.

Lilleberg, Charles L., Chicago, Ill. Timing switches for internal-combustion engines. 166,543; Apr. 10; Serial No. 152,511; published Jan. 9, 1923.

Lindenblossom Syrup Works. (See Schutte, Willebrordus J.)

Lite Soap Company. (See Brignal, Guy E.)

Loeb & Schoenfeld Company, New York, N. Y. Cotton piece goods. 166,760; Apr. 10.

Logan, Thos. H., Co., Hudson, Mass. Leather boots and shoes. 166,610; Apr. 10; Serial No. 135,759; published Jan. 16, 1923.

Loring, George, St. Louis, Mo. Electric sadirons. 166,546; Apr. 10; Serial No. 149,856; published Jan. 9, 1923.

Louisville Furnishing Goods Co., Louisville, Ky. Boys' overalls and men's work shirts. 166,615; Apr. 10; Serial No. 159,363; published July 18, 1922.

Lucile Pearl Company. (See Bonk, John J.)

Lynch, Frank R. (See Lynres Company, assignor.)

Lynres Company Inc., The, assignor to F. R. Lynch, New York, N. Y. Phonographs or talking machines and parts thereof. 166,555; Apr. 10; Serial No. 170,941; published Jan. 23, 1923.

Maass & Kemper, Baltimore, Md. Hosiery, sweaters, and ladies' scarfs and knit underwear. 166,637; Apr. 10; Serial 165,800; published Dec. 19, 1922.

Macey, R. H., & Co., Inc., New York, N. Y. Coats, bathing suits, capes, children's and infants' dresses, etc. 166,608; Apr. 10; Serial No. 148,393; published Dec. 12, 1922.

Macdonald, James, New York, N. Y. Dental cream. 166,656; Apr. 10; Serial No. 123,442; published June 22, 1920.

Manischewitz, B., Company, The, Cincinnati, Ohio. Matzos. 166,778; Apr. 10.

Mannesovitch, Israel, jr., doing business as Schenectady Knit Goods House, Schenectady, N. Y. Hosiery and underwear. 166,642; Apr. 10; Serial No. 165,803; published Jan. 9, 1923.

Mansmann Brothers, Inc., Pittsburgh, Pa. Hosiery. 166,657; Apr. 10; Serial No. 164,446; published Dec. 12, 1922.

Mappin & Webb Limited, Sheffield and London, England. Buttonhooks, shoehorns, buttonhook and shoehorn combinations, and glove hooks. 166,538; Apr. 10; Serial No. 159,474; published Jan. 2, 1923.

Marathon Co., Attleboro, Mass. Bib holders, baby pins, chains, and pendants, lockets, etc. 166,560; Apr. 10; Serial No. 169,218; published Dec. 26, 1922.

Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, etc., belts for supporting outer garments. 166,606; Apr. 10; Serial No. 148,499; published Jan. 9, 1923.

Mark Brothers, New York, N. Y. Men's, boys', and children's suits and coats. 166,601; Apr. 10; Serial No. 150,365; published Jan. 9, 1923.

Marshall Field & Company, Chicago, Ill. Alarm clocks. 166,596; Apr. 10; Serial No. 161,537; published July 18, 1922.

Marshall Field & Company, Chicago, Ill. Men's and women's scarfs, misses' and women's knit skirts, sweaters, men's jerseys, etc. 166,641; Apr. 10; Serial No. 165,930; published Dec. 12, 1922.

Maxo Products Corporation, New York, N. Y. Regasifying attachments for internal-combustion motors. 166,652; Apr. 10; Serial No. 155,511; published Jan. 9, 1923.

McConway & Torley Company, The, Pittsburgh, Pa. Automatic car couplers and parts thereof. 166,734; Apr. 10.

McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candies. 166,720; Apr. 10; Serial No. 163,588; published Feb. 6, 1923.

Meier & Frank Co., Portland, Oreg. Men's, women's, and children's outer clothing. 166,670; Apr. 10; Serial No. 165,402; published Jan. 16, 1923.

Miller, John, Cap Co. Inc., Buffalo, N. Y. Men's and boys' cloth caps and hats. 166,645; Apr. 10; Serial No. 165,592; published Dec. 19, 1922.

Minnesota Red River Valley Co-Operative Certified Seed Growers Association, Crookston, Minn. Wheat, alfalfa, and any other seed, and seed potatoes. 166,758; Apr. 10.

Montague, W. R., Company, The, La Crosse, Wis. Candy. 166,772–7; Apr. 10.

Monumental Shoe Mfg. Co. Inc., Baltimore, Md. Leather shoes. 166,548; Apr. 10; Serial No. 133,743; published Feb. 15, 1921.

Moran, William F., Philadelphia, Pa. Men's clothing. 166,711; Apr. 10; Serial No. 157,000; published July 11, 1922.

Mueller Metals Company, Port Huron, Mich. Rods, die and sand castings, and forgings of nonferrous metal. 166,741; Apr. 10.

Munter, Charles, New York, N. Y. Corsets, waist corsets, brassières. 166,612–13; Apr. 10; Serial Nos. 141,320–1; published Jan. 2, 1923.

Nantex Mfg. Co. Inc., New York, N. Y. Men's athletic underwear. 166,699; Apr. 10; Serial No. 166,687; published Jan. 23, 1923.

Neal & Hyde, Incorporated, Syracuse, N. Y. Hosiery. 166,602; Apr. 10; Serial No. 149,924; published May 23, 1922.

Newmarket Trading Company, Inc., New York, N. Y. Electrical appliances used in connection with wireless telephony. 166,567; Apr. 10; Serial No. 167,315; published Dec. 26, 1922.

Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 166,747–9; Apr. 10.

Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 166,761–3; Apr. 10.

New Zealand Refrigerating Company, Limited, The, Christchurch, New Zealand. Sheep and lambs' pelts. 166,535; Apr. 10; Serial No. 161,379; published Oct. 10, 1923.

Nissley Creamery Company, Fort Worth, Tex. Ice cream. 166,541; Apr. 10; Serial No. 157,726; published Jan. 9, 1923.

Norwalk Vault Company, The, Norwalk, Ohio, Cement paint. 166,746; Apr. 10.

Nustone Products Corporation, New York, N. Y. Stationary laundry tubs. 166,731; Apr. 10.

O'Callaghan, Marguerite, New York, N. Y. Ladies' and children's dresses. 166,619; Apr. 10; Serial No. 169,180; published Jan. 2, 1923.

Oneida Community, Limited, Oneida, N. Y. Containers or cabinets for holding and displaying goods. 166,647; Apr. 10; Serial No. 164,066; published Jan. 23, 1823.

Paragon Hat Company, Chicago, Ill. Men's straw and felt hats. 166,658; Apr. 10; Serial No. 164,665; published Jan. 9, 1923.

Pearson, Minnie A., doing business as Richardson's Dry Hop Yeast Company, Winchester, Va. Yeast. 166,771; Apr. 10.

Pendleton Manufacturing Company, Autun, S. C., Laundry nets. 166,594–5; Apr. 10; Serial Nos. 163,238–9; published Dec. 26, 1922.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Children's ready-to-wear clothing—namely, overall combination suits. 166,691; Apr. 10; Serial No. 166,258; published Jan. 2, 1923.

Petersen's, J. H. C., Sons Company, Davenport, Iowa. Children's play suits, wash suits, and boys' knickerbockers, blouses, and shirts. 166,597; Apr. 10; Serial No. 153,367; Published Jan. 2, 1923.

Phillips-Jones Corporation, New York, N. Y. Dress, negligee, and work shirts, collars, cuffs, pyjamas, and nightshirts. 166,701; Apr. 10; Serial No. 167,781; published Jan. 23, 1923.

Phillips-Jones Corporation, New York, N. Y. Neckbands. 166,700; Apr. 10; Serial No. 167,782; published Jan. 9, 1923.

Pied Pipers of America, New York, N. Y. Roach-exterminating poison. 166,697; Apr. 10; Serial No. 166,903; published Jan. 30, 1923.

Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 166,690; Apr. 10; Serial No. 166,246; published Jan. 9, 1923.

Premus Hat Manufacturing Company, Inc., New York, N. Y. Ladies' hats. 166,671; Apr. 10; Serial No. 165,503; published Dec. 12, 1922.

Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. 166,674; Apr. 10; Serial No. 165,708; published Jan. 30, 1923.

Pritchard, George T., Norfolk, Va. Stencil hand stamp. 166,768; Apr. 10.

Pruzan, Walter E., doing business as Sox Savor Company, New York, N. Y. Hosiery. 166,609; Apr. 10; Serial No. 147,578; published Dec. 12, 1922.

Quinn, Anne, Lake View, Iowa. Ladies' dresses, shirt waists, blouses, rompers, underwear, etc. 166,694; Apr. 10; Serial No. 166,600; published Dec. 12, 1922.

Rauh Bros. & Co., Pittsburgh, Pa. Men's and boys' shirts of flannel and flannelette nightshirts, and pyjamas. 166,719; Apr. 10; Serial No. 164,009; published Dec. 12, 1923.

Reliance Manufacturing Company, Chicago, Ill. Men's and boys' work shirts, boys' blouses and play suits. 166,672; Apr. 10; Serial No. 165,506; published Jan. 9, 1923.

Reliance Manufacturing Company, Chicago, Ill. Men's and boys' work shirts. 166,706; Apr. 10; Serial No. 167,268; published Jan. 9, 1923.

Republic Photographic Corporation, Ferguson, Mo., and New York, N. Y. Electric lamps for use in photographic and moving-picture studios. 166,557; Apr. 10; Serial No. 170,339; published Jan. 2, 1923.

Richardson's Dry Hop Yeast Company. (See Pearson, Minnie A.)

Ripley, Edward, & Son, Ltd., Bradford, England. Piece goods of wool and cotton. 166,551; Apr. 10; Serial No. 122,498; published Apr. 13, 1920.

Riverside Paint & Varnish Company, Boston, Mass. Paints, varnishes, japans, driers, etc. 166,735; Apr. 10.

Rowley Co., The, Chicago, Ill. Aprons and frocks. 166,733; Apr. 10.

Ryan & Casey. (See Casey, Thomas F.)

Scheinzeit-Goldman Co., New York, N. Y. Underwear of knit and woven fabric for men. 166,724; Apr. 10; Serial No. 160,567; published Dec. 12, 1922.

Scheinzeit-Goldman Co., New York, N. Y. Hosiery and underwear made of knit and woven fabrics. 166,725; Apr. 10; Serial No. 160,565; published Dec. 12, 1922.

Schenectady Knit Goods House. (See Mannesovitch, Israel, jr.)

Schneider, Fred M., doing business as The Schneider School of Music, Blue Island, Ill. Phonograph records for use in teaching music. 166,532; Apr. 10; Serial No. 165,039; published Dec. 26, 1922.

Schneider School of Music, The. (See Schneider, Fred M.)

Sharaf, Morris, Boston, Mass. Ladies' aprons. 166,713; Apr. 10; Serial No. 156,027; published Jan. 2, 1923.

Simons & Struve Hosiery Co., The, Philadelphia, Pa. Hosiery. 166,685; Apr. 10; Serial No. 166,961; published Jan. 9, 1923.

Simplex Manufacturing Company, Inc., Conneautville, Pa. Truck bodies. 166,759; Apr. 10.

Smithe, F. L., Machine Company, Incorporated, New York, N. Y. Wrenches. 166,679; Apr. 10; Serial No. 170,098; published Jan. 9, 1923.

Smith-Kirk Candy Co., The, Toledo, Ohio. Candy. 166,540; Apr. 10; Serial No. 158,901; published Dec. 12, 1922.

Solomon Mfg. Co., St. Louis, Mo. Knickerbockers for men, women, and children. 166,705; Apr. 10; Serial No. 167,331; published Dec. 12, 1922.

Southern Clothing Company Inc., Petersburg, Va. Men's outer clothing consisting of suits and overcoats. 166,686; Apr. 10; Serial No. 167,026; published Jan. 9, 1923.

Southern Fruit Julep Co., Fort Worth, Tex. Beverage sold as a soft drink and sirup for making same. 166,750; Apr. 10.

Sox Savor Company. (See Pruzan, Walter E.)

Spokane Valley Growers Union, Opportunity, Wash. Fresh apples. 166,675; Apr. 10; Serial No. 165,723; published Jan. 30, 1923.

Stack Heater Company, Boston, Mass. Temperature-controlled valves, relief valves, vacuum valves, and pipe fittings. 166,714; Apr. 10; Serial No. 155,276; published July 18, 1922.

Standard Conveyor Company, North St. Paul, Minn. Gravity and other conveyers, elevators, spirals and parts thereof. 166,740; Apr. 10.

Standard Knitting Mills, Knoxville, Tenn. Knitted fabric underwear for men and boys. 166,687; Apr. 10; Serial No. 167,056; published Jan. 9, 1923.

Standard Knitting Mills, Knoxville, Tenn. Knitted fabric underwear for men and boys. 166,708–9; Apr. 10; Serial No. 167,047–8; published Jan. 9, 1923.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Lubricating oils particularly for household use. 166,677; Apr. 10; Serial No. 171,711; published Jan. 23, 1923.
Starr Fruit Products Co., Portland, Oreg. Canned fruits and vegetables. 166,663; Apr. 10; Serial No. 164,973; published Feb. 6, 1923.
Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pianos and player pianos. 166,718; Apr. 10; Serial No. 148,678; published Jan. 2, 1923.
Steppacher, Lester G., Co., Inc., Philadelphia, Pa. Pyjamas. 166,622; Apr. 10; Serial No. 168,861; published Jan. 2, 1923.
Stern, Louis, Company, Providence, R. I. Bracelets, necklaces, neck chains, key chains, etc. 166,586; Apr. 10; Serial No. 171,749; published Jan. 23, 1923.
Stonecutter Mills Co., Spindale, N. C. Ginghams in the piece. 166,764; Apr. 10.
Strand Fisheries. (See Strand, Gus.)
Strand, Gus., doing business as Strand Fisheries, Aberdeen, Wash. Canned clams. 166,662; Apr. 10; Serial No. 164,971; published Jan. 30, 1923.
Superior Metal Products Company, The, Elyria, Ohio. Locking steering wheels for automobiles. 166,738; Apr. 10.
Sussman, Wormser & Co., San Francisco, Calif. Macaroni, spaghetti, and vermicelli. 166,703; Apr. 10; Serial No. 167,431; published Feb. 6, 1923.
Tenebaum, J., & Sons, New York, N. Y. Ladies' hats. 166,604; Apr. 10; Serial No. 149,250; published Dec. 6, 1922.
Thermatomic Carbon Co., Pittsburgh, Pa. Printing inks. 166,590; Apr. 10; Serial No. 167,905; published Dec. 26, 1922.
Torchweld Equipment Company, Chicago, Ill. Blowpipes. 166,550; Apr. 10.
Treat, Robert, Shirt Manufacturing Co., Newark, N. J. Dress, negligee, and plaited shirts. 166,693; Apr. 10; Serial No. 166,584; published Jan. 2, 1923.
Tryon, Edw. K., Company, Philadelphia, Pa. Artificial baits, fishhooks, fishing lines, etc. 166,751; Apr. 10.
Urbana Packing Co., The, Urbana, Ohio. Shoulders, hams, lard, and bacon. 166,666; Apr. 10; Serial No. 165,219; published Jan. 30, 1923.
Van De Kamp's Holland Dutch Bakers, Los Angeles, Calif. Bakery products. 166,779; Apr. 10.
Vanity Fair Silk Mills, Reading, Pa. Underwear consisting of vests, bloomers, knickerbockers, drawers, unionsuits, etc. 166,728; Apr. 10; Serial No. 159,329; published Dec. 12, 1922.
Virginia Woodworking Co., Inc., Bristol, Va. Construction material, millwork, manufactured lumber. 166,736; Apr. 10.
Vixen, Inc., Newark, N. J. Hosiery. 166,707; Apr. 10; Serial No. 167,061; published Jan. 9, 1923.
Walker Stetson Company, Boston, Mass. Men's, women's, and children's knit and nainsook underwear. 166,692; Apr. 10; Serial No. 166,421; published Jan. 9, 1923.
Wallach, Hoexter & Co., New York, N. Y. Outer garments—to wit, suits and overcoats for men, and suits and skirts and coats for women. 166,646; Apr. 10; Serial No. 161,219; published Dec. 12, 1922.
Warner Brothers Company, The, Bridgeport, Conn. Corsets. 166,712; Apr. 10; Serial No. 156,610; published Jan. 9, 1923.
Warren, S. D., Company, Boston, Mass. Printing paper. 166,732; Apr. 10.
Warshauer, Jack, New York, N. Y. Boys' suits. 166,636; Apr. 10; Serial No. 168,185; published Jan. 9, 1923.
Warshauer, Jack, New York, N. Y. Girls' dresses. 166,635; Apr. 10; Serial No. 168,186; published Jan. 9, 1923.
Waterbury Button Company, The, Waterbury, Conn. Electric insulating compound. 166,562; Apr. 10; Serial No. 168,740; published Jan. 9, 1923.
Waters & Waters Mfg. Co., St. Louis, Mo. Typewriter ribbons and carbon paper. 166,591; Apr. 10; Serial No. 167,788; published Dec. 26, 1922.
Werner Industries Company, The, Cincinnati, Ohio. Piano and player pianos. 166,563; Apr. 10; Serial Nos. 166,755–6; published Dec. 26, 1922.
Werner Industries Company, The, Cincinnati, Ohio. Pianos and player pianos. 166,676; Apr. 10; Serial No. 166,756; published Dec. 26, 1922.
Wester Bros., New York, N. Y. Cutlery—viz., razors and scissors made of solid steel. 166,646; Apr. 10; Serial No. 165,104; published Jan. 23, 1923.
Western Hosiery Company, Chicago, Ill. Knitted and textile underwear. 166,611; Apr. 10; Serial No. 147,384; published Dec. 12, 1922.
Wheeling Corrugating Company, Wheeling, W. Va. Gas heating stoves and portable baking ovens. 166,745; Apr. 10.
Whitney, J. C., Company, Chicago, Ill. Tea. 166,710; Apr. 10; Serial No. 167,035; published Jan. 23, 1923.
Willat, Arnold F., doing business as Everplay Needle Co., San Francisco, Calif. Phonograph needles. 166,534; Apr. 10; Serial No. 163,205; published Dec. 26, 1922.
Wonder Grain Cleaner Company, The, St. Paul, Minn. Grain-cleaning machines. 166,653; Apr. 10; Serial No. 151,341; published Jan. 9, 1923.
Woodison, E. J., Co., Detroit, Mich. Composition of matter used on patterns to facilitate the parting of the same from the molds. 166,752; Apr. 10.
Worthington Pump and Machinery Corporation, New York, N. Y. Pumping machinery, pumps, apparatus for raising and forcing liquids, etc. 166,717; Apr. 10; Serial No. 149,610; published Jan. 23, 1923.
Wozmak & Company, Chicago, Ill. Men's, young men's, and boys' outer garments—namely, suits, overcoats, spring coats, raincoats. 166,599; Apr. 10; Serial No. 151,302; published Aug. 1, 1922.
Yund, Kennedy & Yund, Amsterdam, N. Y. Knitted outer wear. 166,627; Apr. 10; Serial No. 168,658; published Jan. 23, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Andrews Brothers Company, Inc., Pittsburgh, Pa. Sheik. For Oranges. 25,804; Apr. 10.
Andrews Brothers Company, Inc., Pittsburgh, Pa. Mecca. For Oranges. 25,805; Apr. 10.
Berry, Lottie E., Milwaukee, Wis. Golden Gate. For Infants' Shoes. 25,806; Apr. 10.
Bissinger, George H., doing business as Bissinger Hat Manufacturing Co., New York, N. Y. The Bissinger Hat. For Hats. 25,807; Apr. 10.
Briar Mills, Keokuk, Iowa. Sweet Briar Graham Flour. For Flour. 25,808; Apr. 10.
Cooper Underwear Company, Kenosha, Wis. Coopers Sox. For Socks. 25,809; Apr. 10.
Cooper Underwear Company, Kenosha, Wis. Coopers Sox. For Socks. 25,810; Apr. 10.
Derryvale Linen Co., Inc., New York, N. Y. Derryvale. For Irish Linen. 25,811; Apr. 10.
Erickson, Harry, Chicago, Ill. Motorist. For Cigars. 25,812; Apr. 10.
Fermustex Hosiery Company, Inc., doing business as Lenox Guaranteed Hosiery Shops, Atlanta, Ga. Lenox Guaranteed Hosiery. For Hosiery and Boxes Containing the Same. 25,813; Apr. 10.
Gardiner, Samuel V., New York, N. Y. The Dubl-Wear Shirt. For Men's Shirts with Soft or Unstarched Cuffs. 25,814; Apr. 10.
Gillespie, Eugene P., York, Pa. Pre-War. For Cans and Boxes Containing Cigars. 25,815; Apr. 10.
Glenco Products Company, Quincy, Ill. Glenco Dustaway. For Mops. 25,816; Apr. 10.
Gould, William H., doing business as Sungloss Manufacturing Company, Little Rock, Ark. Sungloss. For Cans, Bottles, and Boxes Containing Polishes for Automobiles. 25,817; Apr. 10.
Hall, G. E., Company. (See Hodskin, Julius D.)
Hecker, H. G., Sacramento, Calif. An Art Light Fixture. For Electric-Lighting Fixtures. 25,818; Apr. 10.
Hodskin, Julius D., doing business as G. E. Hall Company, Binghamton, N. Y. Clover Club. For Cartons and Packages Containing Ice Cream and Ice-Cream Bricks. 25,819; Apr. 10.
Kellogg-Birge Company, doing business as Kellogg-Manufacturing Company, Keokuk, Iowa. Sugar Spread. For a Confection for Use as an Icing. 25,820; Apr. 10.
Kellogg Company, Battle Creek, Mich. Bran Flakes. For Edible Bran for Human Consumption. 25,821; Apr. 10.
Kellogg Manufacturing Company. (See Kellogg-Birge Company.)
Lenox Guaranteed Hosiery Shops. (See Fermustex Hosiery Company.)
Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Metro-Dutch Style Creams. For Packages or Boxes Containing Candy. 25,822; Apr. 10.
Miller, M. E., doing business as Miller Novelty Co., Chicago, Ill. Garden Sweets Rose Scent Bags. For Boxes of Sachet. 25,823; Apr. 10.
National Carbon Company, Inc., New York, N. Y. Columbia Ignitor Dry Cell. For Electric Batteries. 25,824; Apr. 10.
Roszell, J. D., Peoria, Ill. Roszell's Mallo-Nut. For Chocolate Bars. 25,825; Apr. 10.
Sungloss Manufacturing Company. (See Gould, William H.)
Twin City Shellac Co., New York, N. Y. White Shellac. For Shellac. 25,826; Apr. 10.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, Inc., The, New York, N. Y. Insist on this label. For Athletic Underwear. 6,638; Apr. 10.
Carleton & Hovey Company, Lowell, Mass. The Greatest Body Builder. For Father John's Medicine. 6,639; Apr. 10.
Engelke, William J. H., doing business as Pan-American Fire Works Company, Fort Dodge, Iowa. Spirit of No Man's Land. For Fireworks and Firework Displays. 6,640; Apr. 10.
Haynes Automobile Company, The, Kokomo, Ind. Two New Haynes Cars Now on display for first time at Your local Haynes Showroom. For Automobiles. 6,641; Apr. 10.
Holmes Company, Robbinston, Me. A Wooden Box Wire Bound Ready to Go. For Canned Fish. 6,642; Apr. 10.
Holmes Company, Robbinston, Me. H C O. For Canned Fish. 6,643; Apr. 10.
Kahns, E., Sons Company, The, Cincinnati, Ohio. Demand this Brand. For Ham and Bacon. 6,644; Apr. 10.
Keiser, James R., Inc., New York, N. Y. The Keiser Tied Tie. For Neckties. 6,645; Apr. 10.
Knothe Brothers Co., Inc., New York, N. Y. Kno the Club Garters. For Men's Garters. 6,646; Apr. 10.
Moist Piano Company, Chicago, Ill. The Greatest Piano Sale in the History of Chicago. For Pianos of All Kinds. 6,647; Apr. 10.
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Motor Oils. For Motor Oils. 6,648; Apr. 10.
Pan-American Fire Works Company. (See Engelke, William, J. H.)
Percy, Carl, Inc., New York, N. Y. Baby needs Blank's Talc and depends upon you to get it. For Talc. 6,649; Apr. 10.
Piston Service Co. Inc., Detroit, Mich. Motor Parts Replacement. For Pistons, Parts, and Accessories of Gasoline Engines. 6,650; Apr. 10.
Plumb, Fayette R., Inc., Philadelphia, Pa. Plumb Double Life Saw Files. For Files. 6,651; Apr. 10.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ad-Packed Hair Net Co., Inc., New York, N. Y. Hair nets. 176,240–3; Apr. 10.
African & Eastern Trading Co. Inc., New York, N. Y. Cotton piece goods. 175,230; Apr. 10.
Alkin & Alkin, Fort Worth, Tex. Playing cards. 174,056; Apr. 10.
Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet paper and paper towels. 176,437; Apr. 10.
Aladdin Mystic Beauty Company, Grand Rapids, Mich. Clay for facial treatment. 172,572; Apr. 10.
Allen-Spiegel Shoe Mfg. Co., Belgium, Wis. Shoes, insoles, and outer soles. 171,519; Apr. 10.
Ambrosia Chocolate Co., Milwaukee, Wis. Candy. 171,887; Apr. 10.
American Chemical & Drug Co., Olyphant, Pa. Proprietary medicinal preparation for use as an aid to nature in lung affections, coughs, etc. 171,889; Apr. 10.
American Cotton Oil Company, The, Union Township, near Guttenberg, N. J., and New York, N. Y. Oil for salads and cooking. 171,520; Apr. 10.
American Display Company, The, Dayton, Ohio. Toy electric railway. 174,718; Apr. 10.
American Pickle & Canning Co., Hattiesburg, Miss. Canned vegetables and sweet mixed pickles. 166,622; Apr. 10.
American Thread Company, The, Jersey City, N. J., and New York, N. Y. Spool and sewing cotton, cotton thread, cotton yarn, knitting cotton, etc. 175,910; Apr. 10.
Anhydrous Food Products Co., The, Chicago, Ill. Dehydrated soup mixture, vegetables, fruits, fish, and meats. 180,346; Apr. 10.
Art Label Company, The. (See Lasher, Charles, W., jr.)
Atmore and Son, Inc., Philadelphia, Pa. Mayonnaise. 172,196; Apr. 10.
Averill, Georgene, New York, N. Y. Dolls and doll outfits. 164,144; Apr. 10.
Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Dough and bun dividers, bread proofers, panning machines, mixers, etc. 174,228; Apr. 10.
Bear, John D., Company. (See O'Rear, Robert E.)
Beatrice Creamery Company, Chicago, Ill. Cheese. 172,793; Apr. 10.
Bernhard Ulmann Co. Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 176,375; Apr. 10.
Bernhard Ulmann Co., Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 176,379; Apr. 10.
Bernhard Ulmann Co. Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 176,382; Apr. 10.
Bilhuber, E., Inc., New York, N. Y. Medicinal preparation for treatment of asthma, etc. 173,695; Apr. 10.
Bio-Chemic Laboratory. (See Jensen, Dr. Walter D.)
Bion F. Reynolds Company, Brockton, Mass. Shoes. 169,730; Apr. 10.
Birnie Paper Company, Springfield, Mass. Writing and printing paper mailing envelopes, and papeteries. 176,876–7; Apr. 10.
Blackburn, Mrs. L. A., Fort Worth, Tex. Preparation for influenza. 173,952; Apr. 10.
Brecht Candy Company, The, Denver, Colo. Candy. 172,199; Apr. 10.
Brenchley, Emma M., New Malden, England. Cigarette paper. 176,445; Apr. 10.
Broome, Ernest L., New York, N. Y. Hydraulic gates. 172,028; Apr. 10.
Buel, David, Columbus, Ohio. Moth and dust proof cloth bags. 174,231; Apr. 10.
Calcorganic Laboratories. (See Holm, J. Henry.)
Camlin Corset Co., Inc., New York, N. Y. Corsets and brassières. 170,620; Apr. 10.
Carnrick, G. W., Co., New York, N. Y. Medicinal preparations for the treatment of glandular deficiency. 173,127; Apr. 10.
Cannon, Addis O., doing business as Cannon Toy Factory. Toy wagons. 174,053; Apr. 10.
Central Dental Laboratory Co. Incorporated, New York, N. Y. Dental crowns composed of artificial enamel and metal. 174,356; Apr. 10.
Ceres Core Binder Company. (See McGrory, Daniel T.)
Chapin & Gould Paper Company, Springfield, Mass. Writing and printing paper and mailing envelopes. 176,114; Apr. 10.
Charm-U Co., The, Chattanooga, Tenn. Vanishing cream and cleansing or cold cream. 167,838; Apr. 10.
Chicago Malt Extract Co., Chicago, Ill. Malt extract for food purposes. 168,754; Apr. 10.
Chicago Nipple Manufacturing Co., Chicago, Ill. Metal pipe nipples. 163,502; Apr. 10.
Clark Patent Tubing Co., Wheeling, W. Va. Paper tubes to be used with explosive powder in blasting. 175,069; Apr. 10.
Clark Tructractor Company, Buchanan, Mich. Tractors. 175,135; Apr. 10.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. 174,358; Apr. 10.
Clifford, Charles T. H., doing business as Promo Products Co., Oakland, Calif. Carbon remover. 163,533; Apr. 10.
Cloyes, Harold G., Boston, Mass. Recoil checkers. 168,102; Apr. 10.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. 174,655; Apr. 10.
Columbian Rope Company, Auburn, N. Y. Rope. 161,619; Apr. 10.
Colwell Pharmacal Corporation, New York, N. Y. Hormone products. 170,866; Apr. 10.
Combier & Cie., Saumur, France. Beverages sold as soft drinks. 174,166; Apr. 10.
Commercial Paste Co., The, Columbus, Ohio. Adhesive in the form of paste. 176,788; Apr. 10.
Concentrated Products Corporation, Carlstadt, N. J., and New York, N. Y. Shampoo. 173,323; Apr. 10.
Connor, James R., Pittsburgh, Pa. Envelopes and letterheads. 175,419; Apr. 10.
Corning Glass Works, Corning, N. Y. Glass teapots. 171,413; Apr. 10.
Covington, John W., Chicago, Ill. Tooth paste. 173,811; Apr. 10.
C-R Millinery Co., Chicago, Ill. Misses' and ladies' hats. 171,905; Apr. 10.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Crumley, C. V., doing business as Tubetite Manufacturing Company, Tacoma, Wash. Compound for preventing punctures in pneumatic tires. 176,606; Apr. 10.
Curtis & Jones Company, Reading, Pa. Shoes. 171,414; Apr. 10.
Dakota Compound Company, Pierre, S. Dak. Powder used as water softener. 172,084; Apr. 10.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, face powder, talcum powder, etc. 173,882; Apr. 10.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, face and talcum powders, etc. 173,916; Apr. 10.
De Cameron, Inc., New York, N. Y. Perfumes. 171,155; Apr. 10.
Deep Sea Fisheries, Inc., Rockland, Me. Boneless Salt codfish. 172,085; Apr. 10.
Deford, Paul F., Pasadena, Calif. Capsules for relief of bladder complaints, spasmodic asthma, heart pains, etc. 167,914; Apr. 10.
Del Sordo, Harry E., Newark, N. J. Dandruff remover. 173,593; Apr. 10.
Douglas, Richard, doing business as The R. E. D. Mfg. Co., Brooklyn, N. Y. Polishing oils for painted, varnished, and lacquered surfaces. 174,429; Apr. 10.
Drug Products Co. Inc., The, Long Island City, N. Y. Suppositories. 173,990; Apr. 10.
Dunn, John, Son & Co. New York, N. Y. Shovels and spades. 172,037; Apr. 10.
Egyptian Seed Growers Exchange, Flora, Ill. Grass and field seed. 170,759; Apr. 10.
Elmer & Amend, New York, N. Y. Beaker tongs. 174,691; Apr. 10.
Eisendrath, Joseph N. Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,466–8; Apr. 10.
Eisendrath, Joseph N. Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,470; Apr. 10.
Eisendrath, Joseph N. Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,472–3; Apr. 10.
Eisendrath, Joseph N. Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,475–6; Apr. 10.
Eisendrath, Joseph N. Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,478; Apr. 10.
Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton piece goods. 176,017; Apr. 10.
Ewald, Cora, Brooklyn, N. Y. Toy dolls. 174,515; Apr. 10.
Ewald, Cora, Brooklyn, N. Y. Toy dolls. 174,386; Apr. 10.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Antineuralgics. 173,923; Apr. 10.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Compositions for exterminating moths. 173,925; Apr. 10.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Hæmostatics. 173,922; Apr. 10.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Parasiticides. 173,926–1; Apr. 10.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Vulcanization accelerators. 173,926; Apr. 10.
Filice & Perrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. 171,534; Apr. 10.
Fleckenstein, C. G., Company, Muskegon Heights, Mich. Leather. 166,362; Apr. 10.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 176,674; Apr. 10.
Frank, A. J., Mfg. Co., St. Paul, Minn. Salve for burns, wounds, etc. 173,050; Apr. 10.
Get-Gas Service Stations, Inc., Springfield, Ill. Gasoline, kerosene, naphtha, etc. 158,391; Apr. 10.
Gilmore Petroleum Company, Los Angeles, Calif. Volatile compound derived from petroleum. 166,557; Apr. 10.
Gimbel Brothers, Incorporated, Philadelphia, Pa. Men's hats. 166,944; Apr. 10.
Globe Import Co. (See Richter, Julius.)
Goodall Worsted Co., Sanford, Me., and New York, N. Y. Men's and boys' coats, vests, pants, and knickerbockers. 162,546; Apr. 10.
Graham, William, New York, N. Y. Leather. 171,693; Apr. 10.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 170,383–4; Apr. 10.
Gross, Wm. H., Chemical Company, San Antonio, Tex. Chemicals, medicines, and pharmaceutical preparations. 169,295; Apr. 10.
Happy Thought Remedy Kansas City, Mo. Internal treatment for piles. 173,496; Apr. 10.
Health Products Corporation, New York, N. Y. Laxative chewing gum. 171,732; Apr. 10.
Hechtman, Chas., Osseo, Minn. Potatoes. 169,902; Apr. 10.
Heywood-Wakefield Company, Gardner, Mass. Baby carriages and gocarts. 171,458; Apr. 10.
Himmer Brothers Co. Inc., The, Baltimore, Md. Waxed paper. 175,394; Apr. 10.
Hochstadter, Harry C., Philadelphia, Pa. Dental floss. 174,392; Apr. 10.
Hoey, John J., Los Angeles, Calif. Canned ripe olives. 168,364; Apr. 10.
Hollander, Joseph, Inc., Newark, N. J. Dyed animal skins. 166,741; Apr. 10.
Holm, J. Henry, doing business as Calcorganic Laboratories, Chicago, Ill. Medicinal compound to be dispensed for promoting calcification. 171,539; Apr. 10.
Hood River Canning Co., Hood River, Oreg. Canned cherries. 172,093; Apr. 10.
Hupp Products Company, The, Columbus, Ohio. Rubber composition floor covering. 175,196; Apr. 10.
Hurty-Peck & Co., Indianapolis, Ind. Beverage sold as a soft drink and sirups for making the same. 174,011; Apr. 10.
Hutchinson Manufacturing Co., Inc., Norristown, Pa. Combination wood-working machines. 172,094; Apr. 10.
Hygienic Laboratories, Chicago, Il. Shampoo. 173,931; Apr. 10.
Hygienic Laboratories, Chicago, Ill. Hair tonics. 173,932; Apr. 10.
Hygrade Provision Co., Inc., Brooklyn, N. Y. Meat products. 138,568; Apr. 10.
Illinois Powder Mfg. Co., St. Louis, Mo. Dynamite. 172,095; Apr. 10.
Indian Refining Company Inc., New York, N. Y. Lubricating oils, greases, compounds, etc. 172,506; Apr. 10.
Iowa Fiber Box Company, Keokuk, Iowa. Fiber boxes. 176,475; Apr. 10.
Jefferson Co. Inc., Richmond, Va. Vegetable shortening, lard substitute. 153,551; Apr. 10.
Jensen, Dr. Walter D., doing busines as Bio-Chemic Laboratory, Taylor, Nebr. Remedy used for distemper in dogs. 167,943; Apr. 10.
"J-E" Storage Battery Company. (See Luburg, Charles E.)
Jordahn, Gus, Palm Beach, Fla. Inflatable swimming device or belt. 174,454; Apr. 10.
Karas, Kyriakos, Brooklyn, N. Y. Liquid preparation for internal use in the treatment of asthma. 166,836; Apr. 10.
Keely, James H., Philadelphia, Pa. Raisins. 156,281; Apr. 10.
Kehr, Ernest, Richmond Hill, New York, N. Y. Cough lozenges. 171,326; Apr. 10.
Kelley, Grant S., Inc., New York, N. Y. Woolen goods in the piece. 175,930; Apr. 10.
Keynote Manufacturing Co., Inc., Indianapolis, Ind. Cooling chest. 171,086; Apr. 10.
Kilby Frog & Switch Co., Birmingham, Ala. Railroad frogs. 152,224; Apr. 10.
King Candy Co., Fort Worth, Tex. Candies. 172,113; Apr. 10.
King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. 173,570; Apr. 10.
Koboit, George E., Chicago, Ill. Manicure preparations. 173,711; Apr. 10.
Korn, Wald, Davenport, Iowa. Motor cycles. 175,086; Apr. 10.
Lady Janis Perfume Co., Chicago, Ill. Cold cream, complexion powder, perfume, and toilet water. 173,652; Apr. 10.
Lasher, Charles W., jr., doing business as The Art Label Company, Chicago, Ill. Display stands or easels. 174,251; Apr. 10.
Lenapé Silk Company, East Stroudsburg, Pa. Broad silk goods in the piece. 175,089; Apr. 10.
Littooy, John F., Boise, Idaho. Calcium-caseinate spreader to be added to sprays. 161,263; Apr. 10.
Lowell Company, The, New York, N. Y. Toilet preparation for the removal of superfluous hair. 157,375; Apr. 10.
Lowell Company, The, New York, N. Y. Toilet preparation to darken and grow eyelashes. 157,376; Apr. 10.
Louisville Milling Company, Minneapolis, Minn. Wheat flour. 172,890; Apr. 10.
Luburg, Charles E., doing business as "J-E" Storage Battery Company, Philadelphia, Pa. Electrolyte compound for storage batteries. 171,933; Apr. 10.
Lutz & Zuellig, Manila, P. I. Cotton, silk, and woolen piece goods. 142,216–20; Apr. 10.
McCarthy, John C., doing business as The Ma-Lit-Ta Co., Norwood, Mass. Ointment for the treatment of piles, fistula, constipation, etc. 173,840; Apr. 10.
McGrory, Daniel T., doing business as Ceres Core Binder Company, Chicago, Ill. Processed cereal binder, and a paste for forming core compounds used in the casting of metals. 172,952; Apr. 10.
McKay Company, New York, N. Y. Compound for coloring electric bulbs. 174,090; Apr. 10.
McLaurin-Jones Co., Brookfield, Mass. Wrapping paper. 174,147; Apr. 10.
Magner, Charles T., Cleveland, Ohio. Dental suction plates. 167,779; Apr. 10.
Ma-Lit-Ta Co., The. (See McCarthy, John C.)

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mansfield Chemical Company, Chicago, Ill. Furniture and automobile polishes. 164,600; Apr. 10.
Marbletex Co., Inc., The, West Hoboken, N. J., and New York, N. Y. Silks, silk and cotton mixtures, cotton goods, linens, and draperies. 175,938; Apr. 10.
Marshall Field & Company, Chicago, Ill. Sheets and pillowcases. 140,289; Apr. 10.
Melville Shoe Corporation, New York, N. Y. Shoes 171,704; Apr. 10.
Melville Shoe Corporation, New York, N. Y. Shoes. 169,406; Apr. 10.
Merkin, M. J., Paint Co. Inc., Long Island City, N. Y. Lead oil, and zinc paint. 174,583; Apr. 10.
Metz, H. A., & Co., Inc., New York, N. Y. Dyes and dyestuffs. 173,238; Apr. 10.
Mewhinney, A. B., Co. Inc., also doing business as Mewhinney's, Terre Haute, Ind. Chocolate-coated fudge bars. 162,564; Apr. 10.
Milliard & Schmiedell, San Francisco, Calif. Canned fruits, vegetables, and fish. 172,232; Apr. 10.
Miller Petroleum Company, Kansas City, Mo. Naphtha. 176,200; Apr. 10.
Miller Petroleum Company, Kansas City, Mo. Kerosene. 175,673; Apr. 10.
Milwaukee Bag Co., Milwaukee, Wis. Cloth mailing bags. 176,638; Apr. 10.
Minck, George, New York, N. Y. Sheet-metal bill signs, advertising boards, and painted board signs. 169,136; Apr. 10.
Modern Pharmacal Co., Inc., New York, N. Y. Blood maker and general tonic. 172,283; Apr. 10.
Modern Pharmacal Co., Inc., New York, N. Y. Woman's tonic in the treatment of the weaknesses and disorders of the generative organs. 172,282; Apr. 10.
Morgan, Emma A., doing business as R. B. B. Company, North Charlotte, N. C. Preparation for the treatment of pneumonia. 171,507; Apr. 10.
Murphy Varnish Company, Newark, N. J. Varnishes, paint enamels, varnish stains. 154,986; Apr. 10.
Murray, R. W., & Co., South Boston, Mass. Malt extract. 174,970; Apr. 10.
National Fireworks Manufacturing Company, The, Boston and West Hanover, Mass. Fireworks. 158,942; Apr. 10.
Neal, Goldena J., Pine Bluff, Ark. Hair grower. 172,237; Apr. 10.
Nestor Drug and Chemical Company, Chicago, Ill. Dry anticonstipation medicine. 174,023; Apr. 10.
Neugass, Otto L., doing business as Pharaoh Drapery Company, New York, N. Y. Piece goods manufactured from cotton and silk and from cotton and artificial silk. 176,493; Apr. 10.
Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. 171,860; Apr. 10.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven gray, bleached, printed, and dyed cotton piece goods. 174,667; Apr. 10.
Newman, John J., doing business as J. J. Newman Co., Los Angeles, Calif. Corn plasters. 173,851; Apr. 10.
Newport Company, The, Carrollville, Wis. Turpentine substitutes. 175,940; Apr. 10.
New Process Company, Warren, Pa. Men's suitcases. 176,495; Apr. 10.
New Process Company, Warren, Pa. Portfolios (brief cases). 176,496; Apr. 10.
New Process Company, Warren, Pa. Women's suitcases. 176,494; Apr. 10.
Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 173,662; Apr. 10.
Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 173,665; Apr. 10.
North-Western Trust & Savings Bank, Chicago, Ill. Publications and negotiable papers. 151,922; Apr. 10.
O'Rear, Robert E., doing business as John D. Bear Company, Clearbrook, Va. Emulsion of petroleum combined with hypophosphites. 172,051; Apr. 10.
Oval Wood Dish Corporation, Tupper Lake, N. Y. Wooden plates. 176,204; Apr. 10.
Pacific Coast Biscuit Company, Seattle, Wash. Candies. 172,119; Apr. 10.
Paramount Lens Corporation. (See Tromba, Marius H.)
Paramount Paint & Varnish Co., Philadelphia, Pa. Ready-mixed paint. 175,208; Apr. 10.
Paramount Paint & Varnish Co., Philadelphia, Pa. White paint enamel. 175,209; Apr. 10.
Parfumerie Caron. (See E. Daltroff & Cie.)
Parker Brothers, Portland, Me., and Salem, Mass. Board game played with movable pieces. 172,955; Apr. 10.
Parker Brothers, Portland, Me., and Salem, Mass. Parlor game played with cards. 174,330; Apr. 10.
Pateychuk, Wolter V., doing business as W. V. Patty, Altoona, Pa. Medicine for sore throat, influenza, etc. 173,206; Apr. 10.
Patty, W. V. (See Pateychuk, Wolter V.)
Pedersen, Johannes T., New York, N. Y. Coffee-bag supports as used in coffee urns. 172,432; Apr. 10.
Peninsular Paper Company, Ypsilanti, Mich. Book paper. 172,555; Apr. 10.
Penn Paste Milling Company, Wilkes-Barre, Pa. Dry pastes. 176,690–1; Apr. 10.
Penn Paste Milling Company, Wilkes-Barre, Pa. Dry pastes. 160,255; Apr. 10.
Penn Paste Milling Company, Wilkes-Barre, Pa. Wall sizes. 176,689; Apr. 10.
Penn Tobacco Company, Wilkes-Barre, Pa. Cigarettes. 174,702; Apr. 10.
Perkins, Charles B., Co., Boston, Mass. Smoking tobacco. 173,980; Apr. 10.
Perolin Fabrikationsgesellschaft m. b. H., Vienna, Austria. Ethereal oils and essences for deodorizing and purifying the air. 146,780; Apr. 10.
Peters Manufacturing Company, Boston, Mass. Shoe fabrics. 176,209; Apr. 10.
Petroleum Export Corporation, Los Angeles, Calif. Gasoline, kerosene, lubricating oil, and gas oil. 176,210; Apr. 10.
Petroleum Export Corporation, Los Angeles, Calif. Kerosene, gasoline, and lubricating oil. 176,211; Apr. 10.
Pharaoh Drapery Company. (See Neugass, Otto L.)
Philippe, Louis, New York, N. Y. Massage for the face and body. 170,542; Apr. 10.
Platt's, Chicago, Ill. Hosiery. 163,170; Apr. 10.
Plumb, Fayette R., Incorporated, Philadelphia, Pa. Files. 165,504; Apr. 10.
Polak's Frutal Works, Amersfoort, Netherlands. Natural and synthetic essential oils and materials suitable for the production of perfumes. 172,240; Apr. 10.
Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 176,035; Apr. 10, 1923.
Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 176,038; Apr. 10.
Potter-Wrightington, Inc., Charlestown, Boston, Mass. Bread wrappers. 160,025; Apr. 10.
Potter-Wrightington, Inc., Charlestown, Boston, Mass. Bread wrappers. 164,187; Apr. 10.
Prairie Remedy Co., Batavia, Ill. Stock and poultry tonics and conditions. 146,397; Apr. 10.
Producers Canning & Packing Co., The, Salem, Oreg. Canned fruits and berries. 171,550; Apr. 10.
Promo Products Co. (See Clifford, Charles T. H.)
Ramapo Ajax Corporation, New York, N. Y. Track frogs, crossings, guard rails, etc. 172,395; Apr. 10.
R. B. B. Company. (See Morgan, Emma A.)
Reese Chemical Co., The, Cleveland, Ohio. Prophylactic remedy. 155,122; Apr. 10.
R. E. D. Mfg. Co., The. (See Douglas, Richard.)
Reliable Importing Company, Inc., New York, N. Y. Salad vegetable oil. 172,174; Apr. 10.
Remien & Kuhnert Co., Chicago, Ill. Varnishes. 175,885; Apr. 10.
Retailers' Manufacturing Corporation, Wilmington, Del.; Chicago, Ill., and Tulsa, Okla. Prophylactics for the prevention of sexual diseases. 172,014; Apr. 10.
Richardson Dry Goods Co., St. Joseph, Mo. Cotton, silk and cotton, linen, linen and cotton, and wool and cotton piece goods. 172,351; Apr. 10.
Richter, Julius, doing businesss as Globe Import Co., New York, N. Y. Scissors and pocketknives. 169,517; Apr. 10.
Rollaway Motor Company, The, Toledo, Ohio. Automobile steering-gear-control wheels. 162,853; Apr. 10.
Rosenberger, William A., doing business as William A. Rosenberger Chemical Products Company, New York, N. Y. Compound for the desulphurization and deoxidation of molten metals preparatory to the pouring of the same into molds for casting. 172,059; Apr. 10.
Rosebrand Co., Atlantic City, N. J. Nasal solution, douche therefor, and package containing both. 173,008; Apr. 10.
Rotolo, Benedict A., Brooklyn, N. Y. Hair tonic. 174,030; Apr. 10.
Sackett, H. B., Screen & Chute Company, Chicago, Ill. Scoops, shovels, and steel chutes. 172,443; Apr. 10.
Salembier & Clay, Inc., New York, N. Y. Silk goods in the piece. 176,045; Apr. 10.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Fabrics in the piece. 173,677; Apr. 10.
Sand Springs Bottling Co., Tulsa, Okla. Beverages sold as soft drinks and sirup for making the same. 174,339; Apr. 10.
Scott, Fannie H., San Diego, Calif. Hair dressing. 168,279; Apr. 10.
Sea Coast Packing Co., Seattle, Wash. Canned salmon. 168,647; Apr. 10.
Sehon, Stevenson & Company, Huntington, W. Va. Coffee. 171,595; Apr. 10.
Semel, J. H., & Co., New York, N. Y. Children's knit underwear. 168,653; Apr. 10.
Semet Solvay Company, Solvay, N. Y. Organic and inorganic chemicals. 173,251; Apr. 10.
Shepard Norwell Company, Boston, Mass. Boots, shoes, and slippers. 172,187; Apr. 10.
Simonson, Wilmot H., Medford, Mass. Filling for puddings, pies, and layer cake. 169,186; Apr. 10.
Sotham, Thomas F. B., St. Clair, Mich. Mincemeat. 172,126; Apr. 10.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Southard, Thos., Poultry Supply Co., Kansas City, Mo. Remedy for colds, roup, canker, cholera, etc., diseases in poultry. 167,337; Apr. 10.

Stahel, Edward P., & Co. New York, N. Y. Rubber tissue for reenforcing, stiffening, and waterproofing parts of garments, etc. 174,675; Apr. 10.

Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 176,506; Apr. 10.

Standard Paper Company, Kalamazoo, Mich. Paper cartons. 176,659; Apr. 10.

Standard Ultramarine Co., The, Huntington, W. Va. Ultramarine blue. 170,905; Apr. 10.

Stanley Glidden Co., Inc., Boston, Mass. Rubber tires, tubes, patches, hose, etc. 121,766; Apr. 10.

Steiger, Ernest, New York, N. Y. Kindergarten material. 154,769; Apr. 10.

Stevens & Company, Inc., Providence, R. I. Ophthalmic mountings and parts thereof. 175,224; Apr. 10.

Strasenburgh, R. J., Company, Rochester, N. Y. Tonic for use in connection with convalescence, anæmia, etc. 173,686; Apr. 10.

Stubbs, India K., Monroe, La. Dolls and contortional figures. 174,707; Apr. 10.

Swint, Davis & Davis, Atlanta, Ga. Cigars. 172,362; Apr. 10.

Tacoma Biscuit & Candy Company, Tacoma, Wash. Soda crackers. 172,913; Apr. 10.

Tinnerman, A. H., doing business as Tinnerman Stove & Range Co., Cleveland, Ohio. Gas and combination coal and gas ranges and gas and coal heaters. 169,261; Apr. 10.

Tromba, Marius H., doing business as Paramount Lens Corporation, Brooklyn, N. Y. Photographic projecting and optical lenses. 152,327; Apr. 10.

Tubetite Manufacturing Company. (See Crumley, C. V.)

United Oil & Natural Gas Products Corporation, The, Monroe, La. Hydrocarbon black used as a base in the manufacture of paints, varnish, etc. 172,133; Apr. 10.

United States Pencil Co., Philadelphia, Pa. Lead and paper crayon pencils. 166,334; Apr. 10.

Victory V Belt Co., Catasauqua, Pa. Link belts. 167,744; Apr. 10.

Vincent, Sidney C., Baltimore, Md. Toy alarm clocks or watches. 174,804; Apr. 10.

Virden Packing Company, San Francisco, Calif. Canned fruits. 172,068; Apr. 10.

Vogel, Morton J., New York, N. Y. Ladies' and children's hand bags, purses, and pocketbooks. 176,386; Apr. 10.

Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft, Berlin, Germany. Talking and dictating machines, records for talking machines. 160,166; Apr. 10.

Wall, King H., Goldsboro, N. C. Bluing compound and liquid bluing. 172,697; Apr. 10.

Wanamaker, John, New York, New York, N. Y. Men's leather gloves. 171,601–2; Apr. 10.

Warner, Charles, Company, Wilmington, Del. Hydrated lime. 154,344; Apr. 10.

Washington Embroidery Co., New York, N. Y. Pillowcases, bolster cases, bed sheets, shams, scarfs, table covers and napkins. 174,805; Apr. 10.

Welch & Marker, Ionia, Mich. Vermifuge to be used in the treatment of live stock. 172,022; Apr. 10.

Western Bottle Manufacturing Company, also doing business as The Western Company, Chicago, Ill. Handkerchiefs. 176,139; Apr. 10.

Western Bottle Manufacturing Company, also doing business as The Western Company, Chicago, Ill. Handkerchiefs. 176,144; Apr. 10.

Western Company, The. (See Western Bottle Manufacturing Company.)

Wesphal, Ernest J. H., Brooklyn, N. Y. Product consisting of an edible container with ice cream or an analogous filler within. 171,146; Apr. 10.

Whitehouse & Hardy, Inc., New York, N. Y. Dress and sport shoes. 171,972; Apr. 10.

White House Products Co., Chicago, Ill. Compound for opening clogged pipes, traps, drains, etc. 172,305; Apr. 10.

Wiegel Candy Co., Tacoma, Wash. Candy. 164,017; Apr. 10.

Williams, Jno. G., Widener, Ark. Medicinal preparation in the nature of a purgative and liver medicine. 168,626; Apr. 10.

Willamette Valley Canneries, Inc., Portland, Oreg. Canned fruits and vegetables. 167,443; Apr. 10.

Wilson, Marie L., Atlantic City, N. J. Corn salve. 165,251; Apr. 10.

Wolf, Philip, doing business as The Wolf Waist Shop, Wallingford, Conn. Brassières. 173,989; Apr. 10.

Wolf Waist Shop, The. (See Wolf, Philip.)

Wood Hydraulic Hoist & Body Company, Detroit, Mich. Hydraulic hoists and their parts. 173,801; Apr. 10.

Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 175,906; Apr. 10.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Apples, Fresh. Spokane Valley Growers Union. 166,675; Apr. 10; Serial No. 155,723; published Jan. 30, 1923.

Aprons and frocks. Rowley Co. 166,733; Apr. 10.

Aprons, Ladies'. M. Sharaf. 166,713; Apr. 10; Serial No. 156,027; published Jan. 2, 1923.

Automobiles, Locking steering wheels for. Superior Metal Products Company. 166,738; Apr. 10.

Baits, bait and tackle boxes, bait and minnow pails, etc., Artificial. Edw. K. Tryon Company. 166,751; Apr. 10.

Bakery products. Van De Kamp's Holland Dutch Bakers. 166,779; Apr. 10.

Bath robes, Baby. J. Kaplan. 166,632; Apr. 10; Serial No. 168,218; published Jan. 9, 1923.

Batteries, mine lamps, charging apparatus for mine lamps, and parts of such articles and apparatus, Storage. Koehler Manufacturing Company. 166,579; Apr. 10; Serial No. 171,643; published Jan. 9, 1923.

Beer, Lager. G. Heileman Brewing Co. 166,765–6; Apr. 10.

Belts. Marathon Tire & Rubber Company. 166,606; Apr. 10; Serial No. 148,496; published Jan. 9, 1923.

Berries, Fresh. Central California Berry Growers Association. 166,668; Apr. 10; Serial No. 165,270; published Feb. 6, 1923.

Beverage sold as a soft drink and a sirup used for making same. Southern Fruit Julep Co. 166,750; Apr. 10.

Beverages sold as soft drinks. Fried & Gottheif. 166,742; Apr. 10.

Beverages sold as soft drinks and sirup for making the same. T. F. Casey. 166,744; Apr. 10.

Bib holders, baby pins, chains and pendants, lockets, etc. Marathon Co. 166,560; Apr. 10; Serial No. 169,218; published Dec. 26, 1922.

Blouses, skirts, etc., Women's and children's. B. F. Homberg. 166,621; Apr. 10; Serial No. 168,970; published Jan. 9, 1923.

Blowpipes. Torchweld Equipment Company. 166,550; Apr. 10.

Books, Composition, memorandum, and note. A. Haupt. 166,781; Apr. 10.

Boots and shoes, Leather. Thos. H. Logan Co. 166,610; Apr. 10; Serial No. 155,759; published Jan. 16, 1923.

Braces, necklaces, neck chains, key chains, etc. Louis Stern Company. 166,486; Apr. 10; Serial No. 171,769; published Jan. 23, 1923.

Brassières. Chas. R. De Bevoise Co. 166,727; Apr. 10; Serial No. 150,744; published July 18, 1922.

Buckles, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 166,571; Apr. 10; Serial No. 165,912; published Dec. 26, 1922.

Buttonhooks, shoehorns, buttonhook and shoehorn combinations, and glove hooks. Mappin & Webb Limited. 166,538; Apr. 10; Serial No. 159,474; published Jan. 2, 1923.

Candies. Betty Lou College Candy Company. 166,542; Apr. 10; Serial No. 152,670; published Jan. 9, 1923.

Candies. J. G. McDonald Chocolate Co. 166,720; Apr. 10; Serial No. 163,588; published Feb. 6, 1923.

Candy. W. R. Montague Company. 166,772–7; Apr. 10.

Candy. Smith-Kirk Candy Co. 166,540; Apr. 10; Serial No. 158,901; published Dec. 12, 1922.

Canned clams. G. Strand. 166,662; Apr. 10; Serial No. 164,971; published Jan. 30, 1923.

Canned fruits and vegetables. Starr Fruit Products Co. 166,663; Apr. 10; Serial No. 164,973; published Feb. 6, 1923.

Canned vegetables. Ephraim Sanitary Canning Company. 166,570; Apr. 10; Serial No. 166,298; published Jan. 16, 1923.

Caps and hats, Men's and boys' cloth. John Miller Cap Co. 166,645; Apr. 10; Serial No. 165,592; published Dec. 19, 1922.

Car couplers, and parts thereof, Automatic. McConway & Torley Company. 166,734; Apr. 10.

Cigarette cases. French Ivory & Metal Corp. 166,549; Apr. 10; Serial No. 132,522; published Dec. 26, 1921.

Cloaks, suits, and skirts, Ladies'. H. Director. 166,704; Apr. 10; Serial No. 167,885; published Dec. 12, 1923.

Clocks. American Wholesale Corporation (Baltimore Bargain House). 166,767; Apr. 10.

Clocks, Alarm. Marshall Field & Company. 166,596; Apr. 10; Serial No. 161,587; published July 18, 1922.

Clothes for women, Sport. E. Grossman. 166,723; Apr. 10; Serial No. 160,986; published Jan. 9, 1923.

Clothing. C. J. Gessing & Sons Company. 166,664; Apr. 10; Serial No. 165,016; published Dec. 19, 1922.

Clothing, Children's ready-to-wear. J. C. Penney Company. 166,691; Apr. 10; Serial No. 166,258; published Jan. 2, 1923.

Clothing, Men's. W. F. Moran. 166,711; Apr. 10; Serial No. 157,000; published July 11, 1922.

Clothing, Men's, young men's, and boys'. A. M. Cohen. 166,607; Apr. 10; Serial No. 148,485; published Jan. 31, 1922.

Clothing, Outdoor. Meier & Frank Co. 166,670; Apr. 10; Serial No. 165,402; published Jan. 16, 1923.

Coats, bathing suits, capes, children's and infants' dresses. R. H. Macey & Co. 166,608; Apr. 10; Serial No. 148,393; published Dec. 12, 1922.

Coats, Infants' and girls'. Kiddie Coat Manufacturing Co. 166,649; Apr. 10; Serial No. 161,078; published Jan. 23, 1923.

Construction material, millwork, and manufactured lumber. Virginia Woodworking Co. 166,736; Apr. 10.

Containers or cabinets for holding and displaying goods. Oneida Community, Limited. 166,647; Apr. 10; Serial No. 164,066; published Jan. 23, 1923.

Conveyors, incline and automatic elevators, spirals, and parts thereof, Gravity, etc. Standard Conveyor Company. 166,740; Apr. 10.

Corsets. Warner Brothers Company. 166,712; Apr. 10; Serial No. 156,610; published Jan. 9, 1923.

Corsets and brassières. L. Bamberger & Co. 166,726; Apr. 10; Serial No. 160,486; published Jan. 16, 1923.

Corsets, waist corsets, brassières. C. Munter. 166,612–13; Apr. 10; Serial Nos. 141,320–1; published Jan. 2, 1923.

Cotton piece goods. Hartley, Freeman & Co. 166,769; Apr. 10.

Cotton piece goods. Loeb & Schoenfeld Company. 166,760; Apr. 10.

Dental cream. J. MacDonald. 166,656; Apr. 10; Serial No. 123,442; published June 22, 1920.

Dials for radio apparatus. American Hard Rubber Company. 166,617; Apr. 10; Serial No. 168,093; published Jan. 30, 1923.

Dresses. Barbara Ann Dress Shops, Inc. 166,665; Apr. 10; Serial No. 165,055; published Jan. 2, 1923.

Dresses. Jerome Frank & Co. 166,702; Apr. 10; Serial No. 167,719; published Jan. 9, 1923.

Dresses, Girls'. J. Warshauer. 166,635; Apr. 10; Serial No. 168,186; published Jan. 9, 1923.

Dresses, Ladies'. Betty Brown Co. 166,605; Apr. 10; Serial No. 148,920; published Dec. 12, 1922.

Dresses, Ladies' and children's. M. O'Callaghan. 166,619; Apr. 10; Serial No. 169,180; published Jan. 2, 1923.

Dresses, shirt waists, blouses, rompers, underwear, etc., Ladies'. A. Quinn. 166,694; Apr. 10; Serial No. 166,606; published Dec. 12, 1922.

Drills, hammers, and grinders, Electric. Electro-Magnetic Tool Company. 166,574; Apr. 10; Serial No. 171,068; published Jan. 9, 1923.

Electric-lighting fixtures and parts thereof. Halcolite Company. 166,572; Apr. 10; Serial No. 165,551; published Jan. 9, 1923.

Electrical apparatus. Estate of Constant Potential System. 166,537; Apr. 10; Serial No. 160,396; published Jan. 2, 1923.

Electrical apparatus, radio telephone and telegraph and signaling and transmission of power apparatus. Chicago Radio Laboratory. 166,554; Apr. 10; Serial No. 170,969; published Jan. 9, 1923.

Electrical appliances. Newmarket Trading Company. 166,567; Apr. 10; Serial No. 167,315; published Dec. 26, 1922.

Electrical condensers. E. R. Knott Manufacturing Company. 166,564; Apr. 10; Serial No. 168,534; published Dec. 26, 1922.

Electrical fixtures, lamp sockets, and brackets. Hitchings-Spence. 166,565; Apr. 10; Serial No. 167,615; published Dec. 26, 1922.

Electrical switches, switchboards, switch boxes, etc. Frank Adam Electric Co. 166,559; Apr. 10; Serial No. 169,269; published Jan. 2, 1923.

Engines, Timers for internal-combustion. Eclipse Specialty Manufacturing Company. 166,576; Apr. 10; Serial No. 171,266; published Jan. 9, 1923.

Engines, Timing switches for internal-combustion. C. L. Lilleberg. 166,543; Apr. 10; Serial No. 152,511; published Jan. 9, 1923.

Fire extinguisher, Hand. American La France Fire Engine Company. 166,680; Apr. 10; Serial No. 169,965; published Jan. 9, 1923.

Fishhooks. S. Allcock & Co. 166,780; Apr. 10.

Fishing lines. Newton Line Company Incorporated. 166,747–9; Apr. 10.

Fishing lines. Newton Line Company Incorporated. 166,761–8; Apr. 10.

Flatware consisting of spoons, forks, ladles, etc., Silverplated. International Silver Company. 166,588; Apr. 10; Serial No. 171,272; published Jan. 23, 1923.

Flour, Wheat. J. B. Camors & Company. 166,716; Apr. 10; Serial No. 155,160; published Aug. 1, 1922.

Flutes and piccolos. Wm. S. Haynes Co. 166,575; Apr. 10; Serial No. 171,215; published Jan. 23, 1923.

Fuel-treating devices. V. R. Cameron. 166,678; Apr. 10; Serial No. 170,260; published Jan. 9, 1923.

Furnace grates. Culm Burn Equipment Company. 166,757; Apr. 10.

Garments for men, young men, and boys, Outer. Wozniak & Company. 166,590; Apr. 10; Serial No. 151,302; published Aug. 1, 1922.

Garments, Outer. Wallach Hoexter & Co. 166,648; Apr. 10; Serial No. 161,219; published Dec. 12, 1922.

Ginghams in the piece. Stonecutter Mills Co. 166,764; Apr. 10.

Grain-cleaning machines. Wonder Grain Cleaner Company. 166,653; Apr. 10; Serial No. 151,341; published Jan. 9, 1923.

Grain separating and cleaning machines. Carter-Mayhew Manufacturing Company. 166,683; Apr. 10; Serial No. 168,204; published Jan. 23, 1923.

Hams and bacon. Higgin's Packing Company. 166,660; Apr. 10; Serial No. 164,908; published Jan. 30, 1923.

Hand bag, Ladies'. Automatic Meshbag Co. 166,566; Apr. 10; Serial No. 167,449; published Jan. 2, 1923.

Hats, caps, and bonnets. Carson Pirie Scott & Co. 166,722; Apr. 10; Serial No. 161,805; published Jan. 2, 1923.

Hats, Ladies'. Premus Hat Manufacturing Company. 166,671; Apr. 10; Serial No. 165,503; published Dec. 12, 1922.

Hats, Ladies'. J. Tenebaum & Sons. 166,604; Apr. 10; Serial No. 149,250; published Dec. 6, 1922.

Hats, Men's straw and felt. Paragon Hat Company. 166,658; Apr. 10; Serial No. 164,665; published Jan. 9, 1923.

Hats, Straw. Demmerle & Co. 166,667; Apr. 10; Serial No. 165,274; published Dec. 12, 1923.

Headlights, spotlights, and electric lamps. Darsie Manufacturing Company. 166,581; Apr. 10; Serial No. 171,907; published Jan. 9, 1923.

Hosiery. M. Baum. 166,644; Apr. 10; Serial No. 165,615; published Jan. 2, 1923.

Hosiery. Chester Knitting Mills. 166,638–9; Apr. 10; Serial Nos. 166,171–2; published Jan. 2, 1923.

Hosiery. Chas. Chipman's Sons Co. 166,630; Apr. 10; Serial No. 168,450; published Dec. 19, 1922.

Hosiery. Indian Queen Silk Co. 166,730; Apr. 10; Serial No. 169,303; published Jan. 9, 1923.

Hosiery. Fairsex Hosiery Mills, Inc. 166,624; Apr. 10; Serial No. 168,677; published Dec. 19, 1922.

Hosiery. Mansmann Brothers, Inc. 166,657; Apr. 10; Serial No. 164,446; published Dec. 12, 1922.

Hosiery. Neal & Hyde, Incorporated. 166,602; Apr. 10; Serial No. 149,924; published May 23, 1922.

Hosiery. Powell Knitting Company. 166,690; Apr. 10; Serial No. 166,246; published Jan. 9, 1923.

Hosiery. W. E. Pruzan. 166,609; Apr. 10; Serial No. 147,578; published Dec. 12, 1922.

Hosiery. Simons & Struve Hosiery Co. 166,685; Apr. 10; Serial No. 166,961; published Jan. 9, 1923.

Hosiery. Vixen, Inc. 166,707; Apr. 10; Serial No. 167,061; published Jan. 9, 1923.

Hosiery and underwear. I. Mannesovitch, jr. 166,642; Apr. 10; Serial No. 165,803; published Jan. 9, 1923.

Hosiery and underwear. Scheinzeit-Goldman Co. 166,725; Apr. 10; Serial No. 160,565; published Dec. 12, 1922.

Hosiery, Children's. W. T. Grant Co. 166,715; Apr. 10; Serial No. 155,167; published May 9, 1922.

Hosiery for men. Athens Hosiery Mills. 166,631; Apr. 10; Serial No. 168,289; published Jan. 9, 1923.

Hosiery, knit and cut underwear, knitted sweaters, and men's work shirts. Klein, Gordon & Company. 166,698; Apr. 10; Serial No. 163,047; published Dec. 12, 1922.

Hosiery, sweaters, and ladies' scarfs and knit underwear. Maass & Kemper. 166,637; Apr. 10; Serial No. 165,800; published Dec. 19, 1922.

Ice cream. Nissley Creamery Company. 166,541; Apr. 10; Serial No. 157,726; published Jan. 9, 1923.

Ink, Writing. Hygeia Glass Corporation. 166,592; Apr. 10; Serial No. 165,996; published Dec. 26, 1922.

Inks, Printing. Thermatomic Carbon Co. 166,590; Apr. 10; Serial No. 167,905; published Dec. 26, 1922.

Inks, Printing and lithographic. Howard Flint Ink Co. 166,684; Apr. 10; Serial No. 168,602; published Dec. 26, 1922.

Insulating compounds, Electric. Waterbury Button Company. 166,562; Apr. 10; Serial No. 168,740; published Jan. 9, 1923.

Jams, jellies, and icings. American Syrup Company. 166,634; Apr. 10; Serial No. 168,192; published Feb. 6, 1923.

Jewelry. J. M. Fisher Co. 166,536; Apr. 10; Serial No. 160,490; published Dec. 26, 1922.

Knickerbockers. Solomon Mfg. Co. 166,705; Apr. 10; Serial No. 167,331; published Dec. 12, 1922.

Knickerbockers or bloomers. Kenilworth Manufacturing Co. 166,661; Apr. 10; Serial No. 164,923; published Dec. 19, 1922.

Knickerbockers or bloomers. Kenilworth Manufacturing Co. 166,673; Apr. 10; Serial No. 165,553; published Dec. 19, 1922.

Knitted and textile underwear. Western Hosiery Company. 166,611; Apr. 10; Serial No. 147,384; published Dec. 12, 1922.

Knitted coats for outer wear, Men's. Alcone Knitting Mills. 166,600; Apr. 10; Serial No. 150,427; published Jan. 16, 1923.

Knitted outer wear. Yund, Kennedy & Yund. 166,627; Apr. 10; Serial No. 168,358; published Jan. 23, 1923.

Lamps, Electric. Republic Photographic Corporation. 166,557; Apr. 10; Serial No. 170,339; published Jan. 2, 1923.

Leather. C. G. Fleckenstein Company. 166,737; Apr. 10.

Leather. C. G. Fleckenstein Company. 166,754–5; Apr. 10.
Macaroni. Prince Macaroni Mfg. Co. 166,674; Apr. 10; Serial No. 165,708; published Jan. 30, 1923.
Macaroni, spaghetti, and vermicelli. Sussman, Wormser & Co. 166,703; Apr. 10; Serial No. 167,431; published Feb. 6, 1923.
Matzos. B. Manischewitz Company. 166,778; Apr. 10.
Motors, Electric. American Radio and Research Corporation. 166,547; Apr. 10; Serial No. 138,207; published Dec. 26, 1922.
Motors, Regasifying attachments for internal-combustion. Maxo Products Corporation. 166,652; Apr. 10; Serial No. 155,511; published Jan. 9, 1923.
Musical instruments and supplies. Baldur-Pianoforte-Fabrik Aktien-Gesellschaft. 166,533; Apr. 10; Serial No. 164,787; published Jan. 2, 1923.
Neckbands. Phillips-Jones Corporation. 166,700; Apr. 10; Serial No. 167,782; published Jan. 9, 1923.
Necklaces, Imitation-pearl. American Watch & Diamond Company. 166,553; Apr. 10; Serial No. 171,007; published Jan. 16, 1923.
Neckties, cravats, and neckscarfs. Albert Neckwear Manufacturing Company. 166,603; Apr. 10; Serial No. 149,792; published June 6, 1922.
Nets, Laundry. Pendleton Manufacturing Company. 166,594–5; Apr. 10; Serial Nos. 163,238–9; Dec. 26, 1922.
Oils, Lubricating. Standard Oil Company (Incorporated in New Jersey). 166,677; Apr. 10; Serial No. 171,711; published Jan. 23, 1923.
Ovens, gas stoves, oil cook stoves, etc., Portable bake. Elgin Stove & Oven Co. 166,756; Apr. 10.
Overalls. Alabama Overall Company. 166,688; Apr. 10; Serial No. 167,504; published Jan. 2, 1923.
Overalls. Happ Brothers Co. 166,623; Apr. 10; Serial No. 168,843; published Dec. 19, 1922.
Overalls and jumpers. Blue Star Overall Company. 166,689; Apr. 10; Serial No. 168,095; published Dec. 5, 1922.
Overalls and men's work shirts, Boys'. Louisville Furnishing Goods Co. 166,615; Apr. 10; Serial No. 159,363; published July 18, 1922.
Paint, Cement. Norwalk Vault Company. 166,746; Apr. 10.
Paints, varnishes, japans, etc. Riverside Paint & Varnish Company. 166,735; Apr. 10.
Paper, Printing. S. D. Warren Company. 166,732; Apr. 10.
Patterns to facilitate the parting of the same from molds, Composition of matter used on. E. J. Woodison Co. 166,752; Apr. 10.
Pearls. J. J. Bonk. 166,573; Apr. 10; Serial No. 171,200; published Jan. 2, 1923.
Pearls, Artificial or reconstructed. Baird-North Company. 166,587; Apr. 10; Serial No. 171,680; published Jan. 2, 1923.
Pelts, sheep and lambs'. New Zealand Refrigerating Company. 166,535; Apr. 10; Serial No. 161,379; published Oct. 10, 1923.
Pens, Fountain. Corona Pen Company. 166,743; Apr. 10.
Phonograph needles. Gold Seal Co. 166,582; Apr. 10; Serial No. 171,992; published Jan. 23, 1923.
Phonograph needles. A. F. Willat. 166,534; Apr. 10; Serial No. 163,205; published Dec. 26, 1922.
Phonograph records for use in teaching music. F. M. Schneider. 166,532; Apr. 10; Serial No. 165,029; published Dec. 26, 1922.
Phonograph repeating attachment. Gold Seal Co. 166,539; Apr. 10; Serial No. 159,258; published Jan. 9, 1923.
Phonographs. Lansburgh & Brother. 166,577; Apr. 10; Serial No. 171,424; published Jan. 23, 1923.
Phonographs and phonograph records. James A. Hearn & Son Inc. 166,593; Apr. 10; Serial No. 165,994; published Jan. 9, 1923.
Phonographs or talking machines and parts thereof. Lynres Company. 166,555; Apr. 10; Serial No. 170,941; published Jan. 23, 1923.
Pianos. Central Piano Co. 166,545; Apr. 10; Serial No. 149,890; published Dec. 26, 1922.
Pianos and player pianos. Seger & Sons Piano Manufacturing Company. 166,718; Apr. 10; Serial No. 148,678; published Jan. 2, 1923.
Pianos and player pianos. Werner Industries Company. 166,568; Apr. 10; Serial No. 166,755–6; published Dec. 26, 1922.
Pianos and player pianos. Werner Industries Company. 166,676; Apr. 10; Serial No. 166,756; published Dec. 26, 1922.
Piston pins. Warren F. Fraser Company. 166,650; Apr. 10; Serial No. 161,001; published Jan. 9, 1923.
Piston rings. Du Bois Machine Company. 166,739; Apr. 10.
Poison, Roach-exterminating. Pied Pipers of America. 166,697; Apr. 10; Serial No. 166,903; published Jan. 30, 1923.
Potheads, cable-end bells, etc., Single and multiple conductor and high and low tension. G & W Electric Specialty Co. 166,578; Apr. 10; Serial No. 171,638; published Jan. 9, 1923.
Pumping machinery, pumps, apparatus for raising and forcing liquids, etc. Worthington Pump and Machinery Corporation. 166,717; Apr. 10; Serial No. 149,610; published Jan. 23, 1923.
Pumps. Consolidated Accessories Manufacturers Corporation. 166,654; Apr. 10; Serial No. 149,214; published Jan. 9, 1923.
Pyjamas. Lester G. Steppacher Co. 166,622; Apr. 10; Serial No. 168,861; published Jan. 2, 1923.
Radio apparatus. Dyer Company. 166,556; Apr. 10; Serial No. 170,478; published Jan. 9, 1923.
Radio apparatus. Fairmont Electric and Manufacturing Company. 166,558; Apr. 10; Serial No. 170,131; published Jan. 9, 1923.
Radio receiving apparatus, radio horns, and phonographic tone chambers used as sound amplifiers for. Davistone Company. 166,569; Apr. 10; Serial No. 166,435; published Dec. 26, 1922.
Radiotelephone receiving sets and parts thereof. V. Himmer. 166,561; Apr. 10; Serial No. 169,058; published Dec. 26, 1922.
Razors and scissors. Adolph Kastor & Bros. 166,651; Apr. 10; Serial No. 159,972; published May 9, 1922.
Razors and scissors. Wester Bros. 166,646; Apr. 10; Serial No. 165,104; published Jan. 23, 1923.
Reproducers, tone arms, tone modifiers, and automatic stops. Jewel Phonoparts Company. 166,544; Apr. 10; Serial No. 150,539; published Dec. 26, 1922.
Rods, die and sand castings, and forgings. Mueller Metals Company. 166,741; Apr. 10.
Rompers, overalls, and dresses, Children's. Baby Shop, Inc. 166,616; Apr. 10; Serial No. 121,143; published Apr. 11, 1922.
Rubber heels for shoes. Holtite Manufacturing Co. 166,552; Apr. 10; Serial No. 125,461; published Dec. 21, 1920.
Sadirons, Electric. G. Loring. 166,546; Apr. 10; Serial No. 149,856; published Jan. 9, 1923.
Saws, Hack. Darwin & Milner, Inc. 166,681–2; Apr. 10; Serial Nos. 169,536–7; published Jan. 9, 1923.
Scarfs, misses' and women's knit skirts, sweaters, men's jerseys, etc. Marshall Field & Company. 166,641; Apr. 10; Serial No. 165,930; published Dec. 12, 1922.
Shirts, blouses, and sweaters. J. M. Crysler Co. 166,633; Apr. 10; Serial No. 168,207; published Jan. 9, 1923.
Shirts, boys' blouses and play suits, Men's and boys' work. Reliance Manufacturing Company. 166,672; Apr. 10; Serial No. 165,506; published Jan. 9, 1923.
Shirts, collars, cuffs, pyjamas, and nightshirts. Phillips-Jones Corporation. 166,701; Apr. 10; Serial No. 167,781; published Jan. 23, 1923.
Shirts, Dress, negligee, and plaited. Robert Treat Shirt Manufacturing Co. 166,693; Apr. 10; Serial No. 166,584; published Jan. 2, 1923.
Shirts, Men's and boys' work. Reliance Manufacturing Company. 166,706; Apr. 10. Serial No. 167,268; published Jan. 9, 1923.
Shirts, Men's dress. Belcraft Shirt Company. 166,696; Apr. 10; Serial No. 166,872; published Jan. 2, 1923.
Shirts, nightshirts, and pyjamas, Men's and boys'. Rauh Bros. & Co. 166,719; Apr. 10; Serial No. 164,009; published Dec. 12, 1923.
Shoes, Leather. Monumental Shoe Mfg. Co. 166,548; Apr. 10; Serial No. 133,743; published Feb. 15, 1921.
Shotguns and parts thereof. J. L. Galef. 166,585; Apr. 10; Serial No. 162,876; published Jan. 30, 1923.
Shoulders, hams, lard, and bacon. Urbana Packing Co. 166,666; Apr. 10; Serial No. 165,219; published Jan. 30, 1923.
Signals and the like, Electric flashers for intermittent. Bossard Railway Signal Corporation. 166,563; Apr. 10; Serial No. 168,667; published Dec. 26, 1922.
Soap, Household. G. E. Brignall. 166,614; Apr. 10; Serial No. 167,159; published Dec. 26, 1922.
Stencil hand stamp. G. T. Pritchard. 166,768; Apr. 10.
Stoves and portable baking ovens, Gas heating. Wheeling Corrugating Company. 166,745; Apr. 10.
Suits and blouses, Children's. Samuel Bernstein & Sons. 166,640; Apr. 10; Serial No. 166,164; published Dec. 12, 1922.
Suits and coats for boys, dresses, rompers, and creepers for children. N. N. Greenberg. 166,643; Apr. 10; Serial No. 165,789; published Jan. 9, 1923.
Suits and coats, Ladies'. Cohen, Friedlander & Martin Co. 166,598; Apr. 10; Serial No. 152,003; published Jan. 2, 1923.
Suits and coats, Men's, boys', and children's. Mark Brothers. 166,601; Apr. 10; Serial No. 150,365; published Jan. 9, 1923.
Suits and overcoats, Men's. Southern Clothing Company. 166,686; Apr. 10; Serial No. 167,026; published Jan. 9, 1923.
Suits and overcoats, Men's and young men's. M. Cohn. 166,669; Apr. 10; Serial No. 165,349; published Dec. 19, 1922.
Suits and wash suits and boys' knickerbockers, blouses, and shirts, Children's play. J. H. C. Petersen's Sons Company. 166,597; Apr. 10; Serial No. 153,367; published Jan. 2, 1923.
Suits, Boys'. J. Warshauer. 166,636; Apr. 10; Serial No. 168,185; published Jan. 9, 1923.
Sweaters. Benjamin Moseley Co. 166,618; Apr. 10; Serial No. 169,220; published Jan. 9, 1923.
Talking-machine needles. Jordan Marsh Company. 166,584; Apr. 10; Serial No. 172,419; published Jan. 23, 1923.
Talking-machine records. G. H. Davis. 166,583; Apr. 10; Serial No. 172,148; published Jan. 23, 1923.

Tea. J. C. Whitney Company. 166,710; Apr. 10; Serial No. 167,035; published Jan. 23, 1923.
Telephone systems, Automatic. Automatic Electric Company. 166,580; Apr. 10; Serial No. 171,721; published Jan. 9, 1923.
Threads, Silk, linen, cotton, and fiber. H. K. H. Silk Co. 166,770; Apr. 10.
Tomato sauce and paste, fruit preserves, canned fruits and vegetables. Brooklyn Heights Canning Company. 166,659; Apr. 10; Serial No. 164,855; published Jan. 30, 1923.
Toy telephones. N. N. Hill Brass Co. 166,753; Apr. 10.
Truck bodies. Simplex Manufacturing Company. 166,759; Apr. 10.
Tubs, Stationary laundry. Nustone Products Corporation. 166,731; Apr. 10.
Typewriter ribbons and carbon paper. Waters & Waters Mfg. Co. 166,591; Apr. 10; Serial No. 167,788; published Dec. 26, 1922.
Undergarment, Combination. Gem Undergarment Co. 166,629; Apr. 10; Serial No. 168,467; published Dec. 19, 1922.
Undergarments for women and children, Silk. Lande & Miskend. 166,729; Apr. 10; Serial No. 169,364; published Jan. 23, 1923.
Undergarments, Ladies'. Bu-Ti-Maid Petticoat & Pettipants Co. 166,620; Apr. 10; Serial No. 169,051; published Jan. 2, 1923.
Underwear. Vanity Fair Silk Mills. 166,728; Apr. 10; Serial No. 159,329; published Dec. 12, 1922.
Underwear. Walker Stetson Company. 166,692; Apr. 10; Serial No. 166,421; published Jan. 9, 1923.
Underwear for men and boys, Knitted fabric. Standard Knitting Mills. 166,687; Apr. 10; Serial No. 167,056; published Jan. 9, 1923.
Underwear, Men's and boys'. Standard Knitting Mills. 166,708–9; Apr. 10; Serial Nos. 167,057–8; published Jan. 9, 1923.
Underwear, Men's athletic. Nantex Mfg. Co. 166,699; Apr. 10; Serial No. 168,687; published Jan. 23, 1923.
Underwear, Muslin and silk. Harris & Barnett. 166,625; Apr. 10; Serial No. 168,642; published Jan. 23, 1923.
Underwear of knit and woven fabric for men. Scheinzeit-Goldman Co. 166,724; Apr. 10; Serial No. 160,567; published Dec. 12, 1922.
Underwear of textile fabric, Children's. Carson Pirie Scott & Co. 166,721; Apr. 10; Serial No. 161,807; published Jan. 2, 1923.
Valves and pipe fittings. Stack Heater Company. 166,714; Apr. 10; Serial No. 155,276; published July 18, 1922.
Waists and hosiery. House of Byer. 166,626; Apr. 10; Serial No. 168,612; published Jan. 9, 1923.
Waists and hosiery. House of Byer. 166,628; Apr. 10; Serial No. 168,611; published Dec. 19, 1922.
Waists, Ladies. Ely Waist, Inc. 166,695; Apr. 10; Serial No. 166,824; published Dec. 19, 1922.
Watches. B. Lazrus. 166,589; Apr. 10; Serial No. 168,581; published Dec. 26, 1922.
Wheat, alfalfa, and any other seed and seed potatoes. Minnesota Red River Valley Co-Operative Certified Seed Growers Association. 166,758; Apr. 10.
Wood and metal working machines, tools, and supplies. P. Pryibil Machine Company. 166,402; Apr. 3; Serial No. 160,719; published Jan. 2, 1923.
Wool and cotton mixed piece goods. Edward Ripley & Son. 166,551; Apr. 10; Serial No. 122,498; published Apr. 13, 1920.
Wrenches. F. L. Smithe Machine Company. 166,679; Apr. 10; Serial No. 170,098; published Jan. 9, 1923.
Writing fluids. A. B. Flagg. 166,655; Apr. 10; Serial No. 148,139; published Dec. 26, 1922.
Yeast. M. A. Pearson. 166,771; Apr. 10.
Zinc formaldehyde, Sulphoxylate of. Rohm & Haas Company. 166,407; Apr. 3; Serial No. 166,018; published Jan. 2, 1923.

ALPHABETICAL LIST OF LABELS.

An Art Light Fixture. For Electric-Lighting Fixtures. H. G. Hecker. 25,818; Apr. 10.
Bran Flakes. For Edible Bran for Human Consumption. Kellogg Company. 25,821; Apr. 10.
Clover Club. For Cartons and Packages Containing Ice Cream and Ice-Cream Bricks. J. D. Hodskin. 25,819; April 10.
Columbia Ignitor Dry Cell. For Electric Batteries. National Carton Company. 25,824; Apr. 10.
Coopers Sox. For Socks. Cooper Underwear Company. 25,809; Apr 10.
Coopers Sox. For Socks. Cooper Underwear Company. 25,810; Apr. 10.
Derryvale. For Irish Linen. Derryvale Linen Co. 25,811; Apr. 10.
Garden Sweets Rose Scent Bags. For Boxes of Sachet. M. E. Miller. 25,823; Apr. 10.
Glenco Dustaway. For Mops. Glenco Products Company. 25,816; Apr. 10.
Golden Gate. For Infants' Shoes. L. E. Berry. 25,806; Apr. 10.
Lenox Guaranteed Hosiery. For Hosiery and Boxes Containing the Same. Fermustex Hosiery Company. 25,813; Apr. 10.
Mecca. For Oranges. Andrews Brothers Company. 25,805; Apr. 10.
Metro-Dutch Style Creams. For Packages or Boxes Containing Candy. Metro Chocolate Co. Inc. 25,822; Apr. 10.
Motorist. For Cigars. H. Erickson. 25,812; Apr. 10.
Pre-War. For Cans and Boxes Containing Cigars. E. P. Gillespie. 25,815; Apr. 10.
Roszell's Mallo-Nut. For Chocolate Bars. J. D. Roszell. 25,825; Apr. 10.
Shiek. For Oranges. Andrews Brothers Company. 25,804; Apr. 10.
Sugar Spread. For a Confection for Use as an Icing. Kellogg-Birge Company. 25,820; Apr. 10.
Sungloss. For Cans, Bottles, and Boxes Containing Polishes for Automobiles. W. H. Gould. 25,817; Apr. 10.
Sweet Briar Graham Flour. For Flour. B. Mills. 25,808; Apr. 10.
The Bissinger Hat. For Hats. G. H. Bissinger. 25,807; Apr. 10.
The Dubl-Wear Shirt. For Men's Shirts with Soft or Unstarched Cuffs. S. V. Gardiner. 25,814; Apr. 10.
White Shellac. For Shellac. Twin City Shellac Co. 25,826; Apr. 10.

ALPHABETICAL LIST OF PRINTS.

A Wooden Box Wire Bound Ready to Go. For Canned Fish. Holmes Company. 6,642; Apr. 10.
Baby needs Blank's Talc and depends upon you to get it. For Talc. Carl Percy, Inc. 6,649; Apr. 10.
Demand this Brand. For Ham and Bacon. E. Kahn's Sons Company. 6,644; Apr. 10.
H C O. For Canned Fish. Holmes Company. 6,643; Apr. 10.
Insist on this label! For Athletic Underwear. B. V. D. Company. 6,638; Apr. 10.
Kno the Club Garters. For Men's Garters. Knothe Brothers Co. 6,646; Apr. 10.
Motor Parts Replacement, for Pistons, Parts, and Accessories of Gasoline Engines. Piston Service Co. Inc. 6,650; Apr. 10.
O'Neil's "Every drop tested" Motor Oils. For Motor Oils. O'Neil Oil & Paint Company. 6,648; Apr. 10.
Plumb Double Life Saw Files. For Files. Fayette R. Plumb, Inc. 6,651; Apr. 10.
Spirit of No Man's Land. For Fireworks and Firework Displays. W. J. H. Engelke. 6,640; Apr. 10.
The Greatest Body Builder. For Father John's Medicine. Carleton & Hovey Company. 6,639; Apr. 10.
The Greatest Piano Sale in the History of Chicago. For Pianos of All Kinds. Moist Piano Company. 6,647; Apr. 10.
The Keiser Tied Tie. For Neckties. James R. Keiser, Inc. 6,645; Apr. 10.
Two New Haynes Cars Now on display for first time at Your local Haynes Showroom. For Automobiles. Haynes Automobile Company. 6,641; Apr. 10.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adhesive in the form of paste. Commercial Paste Co. 176,788; Apr. 10.
Antineuralgics. Farbenfabriken vorm. Friedr. Bayer & Co. 173,923; Apr. 10.
Automobile steering-gear control wheels. Rollaway Motor Company. 162,853; Apr. 10.
Bags, Mailing. Milwaukee Bag Co. 176,638; Apr. 10.
Bags, Moth and dust proof cloth. D. Buel. 174,231; Apr. 10.
Batteries, Electrolyte compound for storage. C. E. Luburg. 171,933; Apr. 10.
Beverage sold as a soft drink and sirups for making the same. Hurty-Peck Co. 174,011; Apr. 10.
Beverages sold as soft drinks. Combier & Cie. 174,166; Apr. 10.
Beverages sold as soft drinks and sirup for making the same. Sand Springs Bottling Co. 174,339; Apr. 10.
Blood maker and general tonic. Modern Pharmacal Co. 172,283; Apr. 10.
Blue, Ultramarine. Standard Ultramarine Co. 170,905; Apr. 10.
Bluing compound and liquid bluing. K. H. Wall. 172,697; Apr. 10.
Boots, shoes, and slippers. Shepard Norwell Company. 172,187; Apr. 10.
Boxes, Fiber. Iowa Fiber Box Company. 176,475; Apr. 10.
Brassières. P. Wolf. 173,989; Apr. 10.
Bread wrappers. Potter-Wrightington, Inc. 160,025; Apr. 10.
Bread wrappers. Potter-Wrightington, Inc. 164,187; Apr. 10.
Candies. King Candy Co. 172,113; Apr. 10.
Candies. Pacific Coast Biscuit Company. 172,119; Apr. 10.
Candy. Ambrosia Chocolate Co. 171,887; Apr. 10.
Candy. Brecht Candy Company. 172,199; Apr. 10.
Candy. Wiegel Candy Co. 164,017; Apr. 10.
Canned cherries. Hood River Canning Co. 172,093; Apr. 10.
Canned fruits. Virden Packing Company. 172,068; Apr. 10.
Canned fruits and berries. Producers Canning & Packing Co. 171,550; Apr. 10.
Canned fruits and vegetables. Filice & Perreili Canning Co. 171,534; Apr. 10.
Canned fruits and vegetables. F. B. Neuhoff. 171,860; Apr. 10.
Canned fruits and vegetables. Willamette Valley Canneries, Inc. 167,443; Apr. 10.
Canned fruits, vegetables and fish. Milliard & Schmiedell. 172,232; Apr. 10.
Canned ripe olives. J. J. Hoey. 168,364; Apr. 10.
Canned salmon. Sea Coast Packing Co. 168,647; Apr. 10.
Canned vegetables and sweet mixed pickles. American Pickle & Canning Co. 166,622; Apr. 10.
Capsules for the relief of bladder complaints, spasmodic asthma, heart pains, etc. P. F. Deford. 167,914; Apr. 10.
Carbon remover. C. H. Clifford. 163,533; Apr. 10.
Cards, Playing. Aikin & Aikin. 174,056; Apr. 10.
Carriages and gocarts, Baby. Heywood-Wakefield Company. 171,458; Apr. 10.
Casting of metals, Pressed cereal binder and a paste for forming core compounds used in the. D. T. McGrory. 172,952; Apr. 10.
Cheese. Beatrice Creamery Company. 172,793; Apr. 10.
Chemicals. Semet Solvay Company. 173,251; Apr. 10.
Chemicals, medicines, and pharmaceutical preparations. Wm. H. Gross Chemical Company. 169,295; Apr. 10.
Chest, Cooling. Keynote Manufacturing Co. 171,086; Apr. 10.
Chocolates and candies. E. Greenfield's Sons. 170,383–4; Apr. 10.
Cigarettes. Penn Tobacco Company. 174,702; Apr. 10.
Cigars. Swint, Davis & Davis. 172,362; Apr. 10.
Clay for facial treatment. Aladdin Mystic Beauty Company. 172,572; Apr. 10.
Coats, vests, pants, and knickerbockers, Men's and boys'. Goodall Worsted Co. 162,546; Apr. 10.
Codfish, Boneless salt. Deep Sea Fisheries, Inc. 172,085; Apr. 10.
Coffee. Sehon, Stevenson & Company. 171,595; Apr. 10.
Coffee urns, Coffee-bag supports used in. J. T. Pedersen. 172,432; Apr. 10.
Compositions for exterminating moths. Farbenfabriken vorm. Friedr. Bayer & Co. 173,925; Apr. 10.
Compound for opening clogged pipes, traps, drains, etc. White House Products Co. 172,305; Apr. 10.
Corsets and brassières. Camlin Corset Co. 170,620; Apr. 10.
Cotton and silk piece goods. O. L. Neugass. 176,493; Apr. 10.
Cotton, cotton thread, cotton yarn, Spool, sewing, etc. American Thread Company. 175,910; Apr. 10.
Cotton piece goods. African & Eastern Trading Co. 175,230; Apr. 10.
Cotton piece goods. Cohn Hall Marx Co. 174,655; Apr. 10.
Cotton piece goods. Ely & Walker Dry Goods Company. 176,017; Apr. 10.
Cotton piece goods. John P. King Manufacturing Co. 173,570; Apr. 10.
Cotton piece goods. Neuss, Hesslein & Co. 174,667; Apr. 10.
Cotton piece goods. Charles L. Poor Co. 176,035; Apr. 10.
Cotton piece goods. Charles L. Poor Co. 176,038; Apr. 10.
Cotton, silk and cotton, linen, etc., piece goods. Richardson Dry Goods Co. 172,351; Apr. 10.
Cotton, silk, and woolen piece goods. Lutz & Zuellig. 142,219–20; Apr. 10.
Cough lozenges. E. Kehr. 171,326; Apr. 10.
Crackers, Soda. Tacoma Biscuit & Candy Company. 172,913; Apr. 10.
Cream and cleansing or cold cream, Vanishing. Charm-U Co. 167,838; Apr. 10.
Cream, complexion powder, perfume and toilet water, Cold. Lady Janis Perfume Co. 173,652; Apr. 10.
Dandruff remover. H. E. Del Sordo. 173,593; Apr. 10.
Dental crowns. Central Dental Laboratory Co. Incorporated. 174,356; Apr. 10.
Dental floss. H. C. Hochstadter. 174,392; Apr. 10.
Dental suction plates. C. T. Magner. 167,779; Apr. 10.
Display stands or easels. C. W. Lasher, jr. 174,251; Apr. 10.
Dolls and contortional figures. I. K. Stubbs. 174,707; Apr. 10.
Dolls and doll outfits. G. Averill. 164,144; Apr. 10.
Dough and bun dividers, bread proofers, panning machines, mixers, etc. Baker-Perkins Manufacturing Corporation. 174,228; Apr. 10.
Dry pastes. Penn Paste Milling Company. 176,690–1; Apr. 10.
Dyes and dyestuffs. H. A. Metz & Co. 173,238; Apr. 10.
Dynamite. Illinois Powder Mfg. Co. 172,095; Apr. 10.
Electric bulbs, Compound for coloring. McKay Company. 174,090; Apr. 10.
Envelopes and letterheads. J. R. Connor. 175,419; Apr. 10.
Fabrics in the piece. Salt's Textile Manufacturing Company. 173,677; Apr. 10.
Files. Fayette R. Plumb, Incorporated. 165,504; Apr. 10.
Fireworks. National Fireworks Manufacturing Company. 158,042; Apr. 10.
Fishing lines. Newton Line Company Incorporated. 173,662; Apr. 10.
Fishing lines. Newton Line Company Incorporated. 173,665; Apr. 10.
Flour, Wheat. Louisville Milling Company. 172,890; Apr. 10.
Fudge bars, Chocolate-coated. A. B. Mewhinney Co., Inc. 162,564; Apr. 10.
Game, Board. Parker Brothers. 172,955; Apr. 10.
Game played with cards, Parlor. Parker Brothers. 174,330; Apr. 10.
Gasoline, kerosene, lubricating oil, and gas oil. Petroleum Export Corporation. 176,210; Apr. 10.
Gasoline, Kerosene, naphtha, etc. Get-Gas Service Stations, Inc. 158,391; Apr. 10.
Gates, Hydraulic. E. L. Broome. 172,028; Apr. 10.
Glass teapots. Corning Glass Works. 171,413; Apr. 10.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 173,466–8; Apr. 10.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 173,470; Apr. 10.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 173,472–3; Apr. 10.
Gloves, gauntlets and mittens, Leather. Joseph N. Eisendrath Company. 173,475–6; Apr. 10.
Gloves, gauntlets and mittens, Leather. Joseph N. Eisendrath Company. 173,478; Apr. 10, 1923.
Gloves, Men's leather. John Wanamaker, New York. 171,601–2; Apr. 10.
Gum, Laxative chewing. Health Products Corporation. 171,732; Apr. 10.

Hæmostatics. Farbenfabriken vorm. Friedr. Bayer & Co. 173,922; Apr. 10.
Hair dressing. F. H. Scot. 168,279; Apr. 10.
Hair grower. G. J. Neal. 172,237; Apr. 10.
Hair nets. Ad-Packed Hair Net Co. 176,240–3; Apr. 10.
Hair tonic. B. A. Rotolo. 174,030; Apr. 10.
Hair tonics. Hygienic Laboratories. 173,932; Apr. 10.
Hand bags, purses, and pocketbooks, Ladies' and children's. M. J. Vogel. 176,386; Apr. 10.
Handkerchiefs. Western Bottle Manufacture Company. 176,139; Apr. 10.
Handkerchiefs. Western Bottle Manufacturing Company. 176,144; Apr. 10.
Hats, Men's. Gimbel Brothers, Incorporated. 166,944; Apr. 10.
Hats, Misses' and ladies'. C-R Millinery Co. 171,905; Apr. 10.
Hoists and their parts, Hydraulic. Wood Hydraulic Hoist & Body Company. 173,801; Apr. 10.
Hormone Products. Colwell Pharmacal Corporation. 170,866; Apr. 10.
Hosiery. Platt's. 163,170; Apr. 10.
Hydrocarbon black. United Oil & Natural Gas Products Corporation. 172,133; Apr. 10.
Ice cream or analogous filler within, Product consisting of an edible container with. E. J. H. Westphal. 171,146; Apr. 10.
Kerosene. Miller Petroleum Company. 175,673; Apr. 10.
Kerosene, gasoline, and lubricating oil. Petroleum Export Corporation. 176,211; Apr. 10.
Kindergarten material. E. Steiger. 154,769; Apr. 10.
Knit underwear, Children's. J. H. Semel & Co. 163,653; Apr. 10.
Leather. C. G. Fleckenstein Company. 166,362; Apr. 10.
Leather. W. Graham. 171,693; Apr. 10.
Lenses, Photographic, projecting, and optical. M. H. Tromba. 162,327; Apr. 10.
Lime, Hydrated, Charles Warner Company. 154,344; Apr. 10.
Link belts. Victory V Belt Co. 167,744; Apr. 10.
Liquid preparation for treatment of asthma. K. Karas. 166,836; Apr. 10.
Malt extract. Chicago Malt Extract Co. 168,754; Apr. 10.
Malt extract. R. W. Murray & Co. 174,970; Apr. 10.
Manicure preparations. G. E. Kobalt. 173,711; Apr. 10.
Massage for the face and body. L. Philippe. 170,542; Apr. 10.
Mayonnaise. Atmore and Son, Inc. 172,196; Apr. 10.
Meat products. Hygrade Provision Co. 138,568; Apr. 10.
Medicinal compound for promoting calcification. J. H. Hoim. 171,539; Apr. 10.
Medicinal preparation for an aid to nature in lung affections, coughs, etc. American Chemical & Drug Co. 171,889; Apr. 10.
Medicinal preparation for asthma, etc. E. Bilhuber, Inc. 173,695; Apr. 10.
Medicinal preparation in the nature of a purgative and liver medicine. J. G. Williams. 168,626; Apr. 10.
Medicinal preparations for the treatment of glandular deficiency. G. W. Carnrick Co. 173,127; Apr. 10.
Medicine, Dry anticonstipation. Nestor Drug and Chemical Company. 174,023; Apr. 10.
Medicine for sore throat, influenza, etc. W. V. Pateychuk. 173,206; Apr. 10.
Metals, Compound for the desulphurization and deoxidation of molten. W. A. Rosenberger. 172,059; Apr. 10.
Mincemeat. T. F. B. Sotham. 172,126; Apr. 10.
Motor cycles. W. Korn. 175,086; Apr. 10.
Naphtha. Miller Petroleum Company. 176,200; Apr. 10.
Nasal solution, douche therefor, and a package containing both. Rosebrand Co. 173,008; Apr. 10.
Oil for salads and cooking. American Cotton Oil Company. 171,520; Apr. 10.
Oil, Salad vegetable. Reliable Importing Company. 172,174; Apr. 10.
Oils and essences for deodorizing and purifying the air, Ethereal. Peroiin Fabrikationsgesellschaft m. b. H. 146,780; Apr. 10.
Oils for painted, varnished, and lacquered surfaces, Polishing. R. Douglas. 174,429; Apr. 10.
Oils, greases, compounds, etc., Lubricating. Indian Refining Company Inc. 172,596; Apr. 10.
Ointment for the treatment of piles, fistula, constipation, etc. J. C. McCarthy. 173,840; Apr. 10.
Ophthalmic mountings and parts thereof. Stevens & Company. 175,224; Apr. 10.
Paint enamel, White-. Paramount Paint & Varnish Co. 175,209; Apr. 10.
Paint, Lead, oil, and zinc. M. J. Merkin Paint Co. Inc. 174,583; Apr. 10.
Paint, Ready-mixed. Paramount Paint & Varnish Co. 172,208; Apr. 10.
Paper and mailing envelopes, Writing and printing. Chapin & Gould Paper Company. 176,114; Apr. 10.
Paper and paper towels, Toilet. Albany Perforated Wrapping Paper Co. 176,437; Apr. 10.
Paper, Book. Peninsular Paper Company. 172,555; Apr. 10.
Paper cartons. Standard Paper Company. 176,659; Apr. 10.
Paper, Cigarette. E. M. Brenchley. 176,445; Apr. 10.
Paper, envelopes, and papeteries. Birnie Paper Company. 176,876–7; Apr. 10.
Paper, paper napkins, towels, and table cloths, Toilet. Fort Howard Paper Company. 176,674; Apr. 10.
Paper tubes to be used with explosive powder in blasting. Clark Patent Tubing Co. 175,069; Apr. 10.
Paper, Waxed. Hummer Brothers Co. 175,394; Apr. 10.
Paper, Wrapping. McLaurin-Jones Co. 174,147; Apr. 10.
Parasiticides. Farbenfabriken vorm. Friedr. Bayer & Co. 173,920–1; Apr. 10.
Pastes, Dry. Penn Paste Milling Company. 160,255; Apr. 10.
Pencils, Lead and paper crayon. United States Pencil Co. 166,334; Apr. 10.
Perfume, toilet water, rouges, face and talcum powders, etc. E. Daltroff & Cie. 173,882; Apr. 10.
Perfume, toilet water, rouges, face and talcum powders, etc. E. Daltroff & Cie. 173,916; Apr. 10.
Perfumes. De Cameron, Inc. 171,155; Apr. 10.
Perfumes, Oils and materials for the production of. Polak's Frutal Works. 172,240; Apr. 10.
Petroleum and petroleum products. Standard Oil Company of New York. 176,506; Apr. 10.
Petroleum combined with hypophosphites, Emulsion of. R. E. O'Rear. 172,051; Apr. 10.
Petroleum, Volatile compound derived from. Gilmore Petroleum Company. 166,557; Apr. 10.
Piles, Internal treatment of. Happy Thought Remedy Co. 173,596; Apr. 10.
Pillow and bolster cases, bed sheets, shams, scarfs, table covers, and napkins. Washington Embroidery Co. 174,805; Apr. 10.
Pipe nipples, Metal. Chicago Nipple Manufacturing Co. 163,502; Apr. 10.
Plasters, Corn. J. J. Newman. 173,851; Apr. 10.
Plates, Wooden. Oval Wood Dish Corporation. 176,204; Apr. 10.
Polishes, Furniture and automobile. Mansfield Chemical Company. 164,600; Apr. 10.
Portfolios (brief cases). New Process Company. 176,496; Apr. 10.
Potatoes. C. Hechtman. 169,902; Apr. 10.
Powder used as water softener. Dakota Compound Company. 172,084; Apr. 10.
Preparation for influenza. Mrs. L. A. Blackburn. 173,952; Apr. 10.
Preparation for the treatment of pneumonia. E. A. Morgan. 171,507; Apr. 10.
Prophylactics for the prevention of sexual diseases. Retailers' Manufacturing Corporation. 172,014; Apr. 10.
Publications and negotiable papers. North-Western Trust & Savings Bank. 151,922; Apr. 10.
Pudding, pie, and layer-cake filling. W. H. Simonson. 169,186; Apr. 10.
Railroad frogs. Kilby Frog & Switch Co. 152,224; Apr. 10.
Raisins. J. H. Keely. 156,281; Apr. 10.
Ranges and gas and coal heaters, Gas and combination coal and gas. A. H. Tinnerman. 169,261; Apr. 10.
Recoil checkers. H. G. Cloyes. 168,102; Apr. 10.
Remedy for diseases in poultry. Thos. Southard Poultry Supply Co. 167,337; Apr. 10.
Remedy, Prophylactic. Reese Chemical Co. 155,122; Apr. 10.
Remedy used for the treatment of distemper in dogs. Dr. W. D. Jensen. 167,943; Apr. 10.
Rope. Columbian Rope Company. 161,619; Apr. 10.
Rubber-composition floor covering. Hupp Products Company, The. 175,196; Apr. 10.
Rubber tissue for reenforcing, stiffening, and waterproofing of garments, etc. Edward P. Stahel & Co. 174,676; Apr. 10.
Salve, Corn. M. L. Wilson. 165,251; Apr. 10.
Salve for burns, wounds, etc. A. J. Krank Mfg. Co. 173,050; Apr. 10.
Scissors and pocketknives. J. Richter. 169,517; Apr. 10.
Scoops, shovels, and steel chutes. H. B. Sackett Screen & Chute Company. 172,443; Apr. 10.
Seed, Grass and field. Egyptian Seed Growers Exchange. 170,759; Apr. 10.
Shampoo. Concentrated Products Corporation. 173,323; Apr. 10.
Shampoo. Hygienic Laboratories. 173,931; Apr. 10.
Sheets and pillowcases. Marshall Field & Company. 140,289; Apr. 10.
Shoe fabrics. Peters Manufacturing Company. 176,209; Apr. 10.
Shoes. Curtis & Jones Company. 171,414; Apr. 10.
Shoes. Melville Shoe Corporation. 169,406; Apr. 10.
Shoes. Melville Shoe Corporation. 171,704; Apr. 10.
Shoes. Bion F. Reynolds Company. 169,730; Apr. 10.
Shoes, Dress and sport. Whitehouse & Hardy, Inc. 171,972; Apr. 10.
Shoes, insoles, and outer soles. Allen-Spiegel Shoe Mfg. Co. 171,519; Apr. 10.
Shortening, lard substitute, Vegetable. Jefferson Co. Inc. 153,551; Apr. 10.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Shovels and spades. John Dunn, Son & Co. 172,037; Apr. 10.
Signs, advertising boards, and painted board signs, Sheet-metal bill. G. Minck. 169,136; Apr. 10.
Silk goods in the piece. Salembier & Clay, Inc. 176,045; Apr. 10.
Silk goods in the piece, Broad. Lenapé Silk Company. 175,089; Apr. 10.
Silk piece goods. Zollinger & Schroth, Inc. 175,906; Apr. 10.
Silks, silk and cotton mixtures, cotton goods, linens, and draperies. Marbetex Co. 175,938; Apr. 10.
Sizes, Wall. Benn Paste Milling Company. 176,689; Apr. 10.
Skins, Dyed animal. Joseph Hollander, Inc. 166,741; Apr. 10.
Soup mixture, vegetables, fish, etc. Dehydrated. Anhydrous Food Products Co. 136,346; Apr. 10.
Spreader to be added to sprays, Calcium-caseinate. J. F. Littory. 161,263; Apr. 10.
Suitcases. New Process Company. 176,494–5; Apr. 10.
Suppositories. Drug Products Co. 173,999; Apr. 10.
Swimming device or belt, Inflatable. G. Jordahn. 174,454; Apr. 10.
Talking and dictating machines, records for talking machines. Vox-Schallplatten-und Sprechmaschinen-Aktiengesellschaft. 160,160; Apr. 10.
Tires, Compound for preventing puncture in pneumatic. C. V. Crumley. 176,606; Apr. 10.
Tires, tubes, patches, hose, etc., Rubber. Stanley Glidden Co. 121,766; Apr. 10.
Tobacco, Smoking. Charles B. Perkins, Co. 173,980; Apr. 10.
Toilet preparation. Lowell Company. 157,375–6; Apr. 10.
Tongs, Beaker. Eimer & Amend. 174,691; Apr. 10.
Tonic. R. J. Strasenburgh Company. 173,686; Apr. 10.
Tonic in the treatment of the weaknesses and disorders of the female generative organs. Modern Pharmacal Co. 172,282; Apr. 10.
Tonics and conditioners, Stock and poultry. Prairie Remedy Co. 146,397; Apr. 10.
Tools, Metal-working small. Cleveland Twist Drill Company. 174,358; Apr. 10.
Tooth paste. J. W. Covington. 173,811; Apr. 10.
Toy alarm clocks or watches. S. E. Vincent. 174,804; Apr. 10.
Toy dolls. C. Ewald. 174,386; Apr. 10.
Toy dolls. C. Ewald. 174,515; Apr. 10.
Toy electric railway. American Display Company. 174,718; Apr. 10.
Toy wagons. A. O. Cannon. 174,053; Apr. 10.
Track frogs, crossings, guard rails, etc. Ramapo Ajax Corporation. 172,395; Apr. 10.
Tractors. Clark Tructractor Company. 175,135; Apr. 10.
Turpentine substitutes. Newport Company. 175,940; Apr. 10.
Varnishes. Remien & Kuhnert Co. 175,885; Apr. 10.
Varnishes, paint enamels, varnish stains. Murphy Varnish Company. 154,986; Apr. 10.
Vermifuge to be used in the treatment of live stock. Welch & Marker. 172,022; Apr. 10.
Vulcanization accelerators. Farbenfabriken vorm. Friedr. Bayer & Co. 173,926; Apr. 10.
Woodworking machines, Combination. Hutchinson Manufacturing Co. 172,094; Apr. 10.
Woolen goods in the piece. Grant S. Kelley Inc. 175,930; Apr. 10.
Yarns for knitting, crocheting, and art needlework. Bernhard Ulmann Co. Inc. 176,375; Apr. 10.
Yarns for knitting, crocheting, and art needlework. Bernhard Ulmann Co. Inc. 176,379; Apr. 10.
Yarns for knitting, crocheting, and art needlework. Bernhard Ulmann Co. Inc. 176,382; Apr. 10.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. & J. Manufacturing Company, The. (See Johnson, Edward H., assignor.)
A C Spark Plug Company. (See Berge, Joseph, assignor.)
Acme Cushion Wheel Company. (See Cornfield, Noah, assignor.)
Adam Fisher Manufacturing Co. (See Graber, Henry P., assignor.)
Adams, Edwin G., The Dalles, Oreg. Tractor. 1,451,194; Apr. 10.
Adelson, Edward. (See Adelson, Philip and E.)
Adelson, Philip and E., Cambridge, Mass. Carrousel. 1,451,605. Apr. 10.
Advance Rumely Company. (See Ross, James, assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Synchronizing system. 1,450,966; Apr. 10.
Air Reduction Company. (See Anderson, James L., assignor.)
Akron Lamp Company, The. (See Steese, J. C., and Hoff, assignors.)
Aktiebolaget Ljungströms Angturbin. (See Ljungstrom, F., Broberg, and Eriksson, assignors.)
Aldrich, Thomas B., assignor to Parke, Davis & Company, Detroit, Mich. Nitrobenzoic acid esters of trihalogentertiary butyl-alcohol. 1,451,357; Apr. 10.
Allebrand, Charles W., and C. G. Guyatt, Duquesne, Pa. Arm support. 1,451,561; Apr. 10.
Allen, Alfred E., et al. (See Beingessner, Albert J., assignor.)
Allnutt, Benjamin F., Chicago, Ill. Filling tube for liquid receptacles. 1,451,136; Apr. 10.
Allshouse, Reuben R., Freedom, Pa. Metallic railway tie and chair. 1,450,967; Apr. 10.
American Can Company. (See Fleischer, Paul W., assignor.)
American Chain Company. (See Weston, Alonzo H., assignor.)
American Lithographic Company. (See Hopkins, William L., assignor.)
American Multigraph Company, The. (See Chisholm, Clifton, assignor.)
American Reduction Company. (See Baxter, Burke M., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Carson, John R., assignor.)
American Wringer Company. (See Kowalsky, Rudolf A., assignor.)
American Zinc, Lead & Smelting Co. (See Pedersen, John E., assignor.)
Anderson, Charles W., Brooklyn, N. Y. Power control for saw tables and the like. 1,450,906; Apr. 10.
Anderson, James L., Bayonne, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Permanent joint in fabricated form and making the same. 1,450,935; Apr. 10.
Anderson, Peter, Owatonna, Minn. Pencil pin and clip. 1,451,418; Apr. 10.
Anthony, Alfred R., Detroit, Mich. Burner. 1,451,063; Apr. 10.
Anthony, Marcus O., New York, N. Y. Pin ticket. 1,451,486; Apr. 10.
Archer, Charles L., Des Moines, Iowa. Cord tire. 1,451,645; Apr. 10.
Ardo, Joseph, assignor of one-half to K. Horvath, Newhall, W. Va. Manually-propelled flying machine. 1,451,385; Apr. 10.
Arent, Arthur, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa. Reducing inflammability of materials. 1,451,313; Apr. 10.
Arent, Arthur, Laboratories, Inc. (See Arent, Arthur, assignor.)
Armbroster, Frederick, Averne, N. Y. Window or door stop. 1,451,487; Apr. 10.
Arneson, Oscar, Garretson, S. Dak. Lifting tongs. 1,451,606; Apr. 10.
Arrow Electric Company, The. (See Gates, Frederic P., assignor.)
Arrow Grip Manufacturing Co. (See Avery, True M., assignor.)
Assistant Secretary of Agriculture of the United States of America. (See Reed, Jesse O., assignor.)
Atlantic Refining Company, The. (See Van Dyke, John W., assignor.)
Austin, F. C., Machinery Company. (See French, James C., assignor.
Austin, F. C., Machinery Company. (See Olsen, Halften E., assignor.)
Austin, Henry F., New Orleans, La. Feeder for fountain pens. 1,451,314; Apr. 10.
Avery, True M., assignor to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Hook fastener. 1,451,315; Apr. 10.
Ayres, Elwood B. (See Schwartz, W. M., and Ayres.)
Babcock, Henry W., Bloomington, Ill. Comb. 1,451,562; Apr. 10.
Babel, Raymond. (See Vareaux, P., and Babel.)
Baer, Carl J., Riverside, Ill. Boat-propelling means. 1,451,563; Apr. 10.
Bagley, Joseph C., Beloit, Ala. Combined shovel, torch, and match holder. 1,451,195; Apr. 10.
Bahr, Joseph C., St. Louis, Mo. Pocket lock for garments. 1,451,198; Apr. 10.
Baily, Franklin L., Los Angeles, Calif. Ventilated hand protector for guns. 1,451,137; Apr. 10.
Baird-Daniels Co. et al. (See Popper, Joseph, assignor.)
Baker, Joseph, & Sons, Limited. (See Prescott, William E., assignor.)
Baker, Joseph, Sons and Perkins Company. (See Head, Ronald, assignor.)
Baldt Anchor & Chain Company. (See Powell, Norris D., assignor.)
Ball, John P., Chicago, Ill. Aeroplane gun mounting. 1,451,197; Apr. 10.
Ball, Joseph A. (See Comstock, D. F., and Ball.)
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barnett, Lyman R., Missoula, Mont. Clasp. 1,451,316; Apr. 10.
Barnia, Frank I., assignor of one-half to M. Barnia, Merrill, Wis. Artificial minnow. 1,451,436; Apr. 10.
Barnia, Mathilde. (See Barnia, Frank, I., assignor.)
Barr and Stroud, Limited. See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Apparatus for testing and recording the efficiency of range-finder operators. 1,450,907; Apr. 10.
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett Company, The. (See Perry, Ray P., assignor.)
Barrett, Roy, Palmyra, N. Y. Burglar alarm. 1,451,414; Apr. 10.
Barton, Louis E., and C. J. Kinzie, assignors to The Titanium Alloy Manufacturing Company, Inc., Niagara Falls, N. Y. Separating zircon from undesired substances. 1,451,004; Apr. 10.
Barton, Robert W., Chicago, Ill. Combined flywheel and suction fan. 1,450,936; Apr. 10.
Bartosz, Joseph A., Turner, Oreg. Flax-puller attachment for binders. 1,451,317; Apr. 10.
Bates, Langdon B., Thomaston, Me. Knife. 1,451,607; Apr. 10.
Baxter, Burke M., Cleveland, Ohio, assignor to American Reduction Company, Pittsburgh, Pa. Mechanism for the recovery of paper stock. 1,451,522; Apr. 10.
Beauchamp, Frederick A., Berkeley, Calif. Process and apparatus for recovery of precious metals. 1,451,454; Apr. 10.
Becker, George. (See Higerd, F. A., and Becker.)
Beebe, Louis, M., Kansas City, Mo. Caster. 1,451,250; Apr. 10.
Beecher, Milton F. (See Klein, A. A., and Beecher.)
Beingessner, Albert, et al. (See Beingessner, Albert J., assignor.)
Beingessner, Albert J., assignor of one-third to A. Beingessner and one-third to A. E. Allen, Calgary, Alberta, Canada. Weed puller. 1,451,455; Apr. 10.
Belcher, Donald. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
Bell, Thomas T., and J. G. Schoenleber, New York, N. Y. Torch. 1,450,908; Apr. 10.
Bell, William C., Baltimore, Md. Crank shaft and connecting-rod bearing. 1,451,608; Apr. 10.
Benham, William T., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Combination lock. 1,451,036; Apr. 10.
Benner, James, et al. (See Helm, Emerson B., assignor.)
Benson, Carl N., New York, N. Y., assignor to The Skayef Ball Bearing Company. Bearing mounting. 1,451,523; Apr. 10.

Benson, Victor A., San Jose, Calif. Building construction. 1,451,198; Apr. 10.
Bercka, Nilsen, Buenos Aires, Argentina. Artificial teeth. 1,451,005; Apr. 10.
Berg, Franz W. (See Federsen, Anton, assignor.)
Bergander, John F., Chicago, Ill. Phonograph. 1,451,358; Apr. 10.
Berge, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Temperature-compensating means for speedometers. 1,450,909; Apr. 10.
Berkley, Oscar V., Barbourville, Ky. Vehicle headlight. 1,451,318; Apr. 10.
Bernier, Leah E., Kelso, Wash. Bed bathing apparatus. 1,451,437; Apr. 10.
Bernstein, Samuel, New York, N. Y. Insect-powder gun. 1,451,138; Apr. 10.
Bess, Gustavus, Scappoose, Oreg. Aeroplane. 1,451,415; Apr. 10.
Bialick, Michael H., Saginaw, Mich. Cigar holder and ash receptacle. 1,450,910; Apr. 10.
Biggs, Robert H., St. Catharines, Canada. Combination string holder and advertising device. 1,451,251; Apr. 10.
Billings, Frank. (See Greenleaf, Robert P., assignor.)
Birchy, R. O., et al. (See Busby, Robert S.)
Birkholz, Benjamin L., Colonia, N. J. Controlling mechanism for toilet stools. 1,451,524; Apr. 10.
Bittler, Edward R., Schuylkill Haven, Pa. Automobile dash attachment. 1,451,646; Apr. 10.
Bjerklund, Eric G., assignor to The Lake Torpedo Company, Bridgeport, Conn. Torpedo guide for torpedo tubes. 1,451,319; Apr. 10.
Blair, Frank M., assignor to The Cree-Becker Oil Tool Company, Newark, Ohio. Casing elevator. 1,451,199; Apr. 10.
Blanchard, William N., East St. Louis, Ill. Valve. 1,451,037; Apr. 10.
Blatch, Francis H. (See Wilmot, G. W., and Blatch.)
Blaw, Jacob B., Atlantic City, N. J. Adjustable fire-nozzle support. 1,451,006; Apr. 10.
Boatright, Lenore, Sausalito, Calif. Doll. Des. 62,189; Apr. 10.
Bodnar, John, Springfield, Mass. Can opener. 1,451,320; Apr. 10.
Bogle, George M., and A. Smithson, Glenwood, Minn. Horseshoe. 1,451,007; Apr. 10.
Bondy, Richard S. (See Feder, Louis H., assignor.)
Bonelli, Louis, Upper Montclair, N. J. Shoe tool. 1,451,288; Apr. 10.
Booze, Macdonald C., assignor to Norton Company, Worcester, Mass. Nonslip quartz tile. 1,451,456; Apr. 10.
Borax Consolidated Limited. (See Kelly, Andrew, assignor.)
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Spring-needle presser. 1,450,937; Apr. 10.
Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet. 1,451,525; Apr. 10.
Bowles, Byron E., Council Bluffs, Iowa. Knife sharpener. 1,451,526; Apr. 10.
Bowlus, Lauren M., San Luis Obispo, Calif. Ice box for fish and other sea food. 1,451,416; Apr. 10.
Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicating instrument for motor-vehicle radiators. 1,451,527; Apr. 10.
Boyer, Thomas A., Gainesville, Tex. Vehicle wheel. 1,451,528; Apr. 10.
Boyle, Alfred S., Cincinnati, Ohio. Floor waxer and polisher. 1,451,200; Apr. 10.
Boyle, James C., Flint, Mich. Ford brake-clutch connector. 1,451,488; Apr. 10.
Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor element. 1,451,529; Apr. 10.
Braun, Louis. (See White, Charles C., assignor.)
Breeding, Delson, Tulsa, Okla. Control head. 1,450,968; Apr. 10.
Breil, Julius, J., New York, N. Y. Snap fastener. 1,450,938. Apr. 10.
Brhel, John W., (See Palmer, H. D., and Brhel.)
Brill, Max, New York, N. Y. Hand bag. Des. 62,199; Apr. 10.
Brisbois, Odilon, Chicago, Ill. Electric starter for internal-combustion engines. 1,451,530; Apr. 10.
Broad, William, Beaver Falls, Pa. Electric switch, 1,451,008; Apr. 10.
Broberg, Isidor. (See Ljungstrom, F., Broberg, and Eriksson.)
Brobst, Ulysses S. G., Fresno, Calif. Headlight dimmer. 1,451,321; Apr. 10.
Brooks, Thomas J., Sheridan, Pa. Method of and apparatus for detecting faulty engine construction. 1,451,386; Apr. 10.
Brother, William, Salt Lake City, Utah. Fluid clutch mechanism. 1,451,139; Apr. 10.
Brown, Alexander T. and C. S., Syracuse, N. Y. Air-cooled internal-combustion engine and electric generator plant. 1,451,201; Apr. 10.
Brown, Alexander T., Syracuse, N. Y. Agricultural machine. 1,451,140; Apr. 10.
Brown, Charles S. (See Brown, Alexander T. and C. S.)
Brown Company. (See Richter, George A., assignor.)
Brown, E. W. (See Bote, Charles V., assignor.)
Brown, James W., San Diego, Calif. Automobile tool-box support. 1,451,202; Apr. 10.
Brown, Oliver W., and C. O. Henke, Bloomington, Ind. Manufacture of azoxy, azo, hydrazo, and amino compounds. 1,451,489; Apr. 10.
Brown, Theophilus, assignor to Deere and Company, Moline, Ill. Motor cultivator. 1,451,672; Apr. 10.
Brunner, Harold E., Larchmont, N. Y. Manufacturing antifriction bearing rings. 1,451,531; Apr. 10.
Brunswick-Balke-Collender Company. (See Miller, John O., assignor.)
Buchenau, John C., De Witt, N. Y. Adjustable form tie and spacer. 1,451,457; Apr. 10.
Buchner, Louis B., Caldwell, N. J., Convertible baby crib and seat for automobiles. 1,451,532; Apr. 10.
Buckingham, Harry W., et al., executors. (See Mathews, Thomas.)
Buckles, James H. (See Simpson, E. M., and Buckles.)
Buckley, Harry and R., Louisville, Ky. Grinding machine. 1,451,647; Apr. 10.
Buckley, Ray. (See Buckley, Harry and R.)
Bugbee, Lucian W., assignor to Franklin Optical Company, Indianapolis, Ind. Making bifocal lenses. 1,451,490; Apr. 10.
Burrell, Ellis B., Baltimore, Md. Shoe-polish-applying brush. 1,451,322; Apr. 10.
Burrill, Harold G., Baltimore, Md. Agitator for mechanical stokers. 1,451,141; Apr. 10.
Burns, Fred T., Detroit, Mich., assignor of one-third to J. J. Burns, Race Track, and one-third to F. L. Fisher, Butte, Mont. Gradometer. 1,451,387; Apr. 10.
Burns, Jay J., et al. (See Burns, Fred T., assignor.)
Burns, Robert M. (See Nordblad, Gunnar F., assignor.)
Burson Knitting Company. (See Hinchliff, Ralph, assignor.)
Burt, George W., et al. (See Myers, Wilson R., assignor.)
Busby, Robert S., assignor of one-half to A. D. Richardson and R. O. Birchy, Jacksonville, Fla. Tilting and locking device for steering wheels. 1,451,458; Apr. 10.
Busch-Sulzer Bros.-Diesel Engine Company. (See Schlatter, Rudolph, assignor.)
Cain, William H., Los Angeles, Calif. Gas radiator. 1,451,600; Apr. 10.
California Packing Corporation. (See Smith, Otto, assignor.)
Calkins, Seward H., assignor to The Traitel Marble Company, Long Island City, N. Y. Pattern and guide strip. 1,451,491; Apr. 10.
Campbell, Harry E., New York, N. Y., assignor to Campbell Metal Window Corporation, Baltimore, Md. Suspension means for vertically-sliding sashes. 1,451,668; Apr. 10.
Campbell, Joseph E., Rosedale, Kans. Sash antirattler. 1,451,359; Apr. 10.
Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)
Canadian Electro Products Company Limited. (See Matheson, Howard W., assignor.)
Carpenter, Charles U., Dayton, Ohio. Typewriting machine. 1,451,203; Apr. 10.
Carroll, Houston M., sr., San Antonio, Tex. Denture. 1,451,533; Apr. 10.
Carson, Clarence, New Rochelle, N. Y., assignor to Johns-Manville, Incorporated. Speedometer. 1,450,939; Apr. 10.
Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Receiving circuits for weak signal currents. 1,450,969; Apr. 10.
Cartter, William G., Monrovia, and F. W. Thompson, Arcadia, Calif. Electric water heater. 1,451,671; Apr. 10.
Casamayor, Marcos, Manzanillo, Cuba. Sling releaser for transporting apparatus. 1,451,324; Apr. 10.
Casper, George C., assignor of one-half to A. N. Evans, Chicago, Ill. Vehicle spring. 1,451,492; Apr. 10.
Caughey, Arnott S. (See Miebach, H. E., and Caughey.)
Century Machinery Corporation. (See Schmelzer, Anton C., assignor.)
Chain Belt Company. (See Montague, W. L., and Welser, assignors.)
Chain Belt Company. (See Shafer, Samuel, jr., assignor.)
Chapin, Alfred H., et al. (See Smith, Hazor H., assignor.)
Charlesworth, Fred H., St. Paul, Minn. Casket. 1,451,009; Apr. 10.
Cheever, Dwight B. (See Ecker, William B., assignor.)
Cheezneky, Frank, Yukon, W. Va. Trolley hanger. 1,450,970; Apr. 10.
Chicago Railway Signal and Supply Company. (See McCarthy, Daniel J., assignor.)
Chicago Railway Signal and Supply Company. (See Vogel, Eugene W., assignor.)
Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Duplicating machine. 1,451,142; Apr. 10.
Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Flexible printing form. 1,451,204; Apr. 10.
Choppa, John, New Haven, Conn. Tomato strainer. 1,451,534; Apr. 10.
Christian, William, Bridgeport, Conn. Drum. 1,451,289; Apr. 10.

Church, Harold D., Fairfield, assignor to The Locomobile Company, Bridgeport, Conn. Internal-combustion engine. 1,451,648; Apr. 10.
Church, Lewis H., Roselle, and G. C. Thomas, jr., assignors to The Thomas & Betts Co., Elizabeth, N. J. Outlet box. 1,450,972; Apr. 10.
Churchill, Edwin, jr. (See Morgan, R. L., Griffith, and Churchill.)
Clark, Daniel W., Los Angeles, Calif. Core box for pistons. 1,451,010; Apr. 10.
Clark, James H., Portage, Wis., assignor of one-half to J. M. Russell, Portland, Oreg. Demountable hard-rubber cushioned tire and rim. 1,451,143; Apr. 10.
Clark, John T., Provo, Utah. Necktie holder. 1,451,290; Apr. 10.
Clark, Raymond P., Rochester, N. Y. Cover cushion for fruit baskets. 1,450,911; Apr. 10.
Cleary, John W., New York, N. Y. Shield for bank windows. 1,451,360; Apr. 10.
Clopton, William H., jr., Camp Meade, Md. Wrench. 1,450,973; Apr. 10.
Cobb, Isaac W., Portland, Me. Door clamp. 1,450,940; Apr. 10.
Cohen, Charles, Bridgeport, Conn. Bottle holder. 1,451,649; Apr. 10.
Collings, William R. (See Cottringer, P., and Collings.)
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Knotter. 1,450,941; Apr. 10.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. 1,450,942; Apr. 10.
Colnot, Henri, Paris, France. Internal-combustion engine. 1,451,417; Apr. 10.
Comegys, Edward F. (See Hormann, Diedrich, F., assignor.)
Commercial Camera Company. (See Greene, John S., assignor.)
Comstock, Daniel F., Cambridge, and J. A. Ball, Wollaston, assignors, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic film. 1,451,325; Apr. 10.
Connecticut Telephone & Electric Co. (See Stahl, Charles E., assignor.)
Continental and Commercial Trust and Savings Bank. (See Hubbard, James W., assignor.)
Cooney, Colonel, Ada, Ohio. Combined weather strip and sash fastener. 1,451,650; Apr. 10.
Cornell, Jacob J., Paducah, Ky. Whistle. 1,451,459; Apr. 10.
Cornfield, Noah, Detroit, Mich., assignor to Acme Cushion Wheel Company, Wilmington, Del. Vehicle wheel. 1,451,252; Apr. 10.
Cornfield, Noah, Detroit, Mich., assignor to Acme Cushion Wheel Company, Wilmington, Del. Vehicle wheel. 1,451,253; Apr. 10.
Cottringer, Paul, and W. R. Collings, assignors to The Dow Chemical Company, Midland, Mich. Making anhydrous magnesium chloride. 1,450,912; Apr. 10.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Appliance for attaching bumpers adjustably to automobiles. 1,451,535; Apr. 10.
Cracker Jack Co., The. (See Eckstein, Henry G., assignor.)
Crawford, McGregor and Candy Company, The. (See Long, Claud L., assignor.)
Cree-Becker Oil Tool Company, The. (See Blair, Frank M., assignor.)
Crockett, Jesse G., Winnebago, Nebr., assignor to Sloan-Crockett Co., Sioux City, Iowa. Elevating jack. 1,451,661; Apr. 10.
Cruickshank, James H., Big Indian, N. Y. Stopping and landing mechanism for aeroplanes, dirigibles, balloons, and the like. 1,451,493; Apr. 10.
Cruyt, Lucien C., London, assignor to Heenan & Froude Limited, Worcester, England. Wet-filter screen. 1,450,951; Apr. 10.
Cruzan, Wayne M., Eureka, Kans. Fruit pitter. 1,451,254; Apr. 10.
Crysdale George F., Toronto, Ontario, Canada. Bicycle stand and carrier. 1,451,651; Apr. 10.
Cundy, Jack A., London, England. Ring for curtains and the like. 1,451,326; Apr. 10.
Cunningham, Austin, L. (See Olop, Stephen, assignor.)
Cunningham, John D., Houston, Tex. Vehicle tire. 1,451,327; Apr. 10.
Cutsinger, T. H. (See Lawlor, James M., assignor.)
Daniels, George W., Hamilton, Ontario, Canada. Automobile lock. 1,450,943; Apr. 10.
Darling, Elmer E., Salt Lake City, Utah. Tire alarm. 1,451,291; Apr. 10.
Dashew, Jacob, Baltimore, Md. Steam garment-pressing machine. 1,451,292; Apr. 10.
Daughdrill, John D., Anniston, Ala. Molding machine. 1,451,323; Apr. 10.
Davis, Solomon L., and E. H. Rinehart, El Paso, Tex. Tire tube. 1,451,536; Apr. 10.
Decker, Frank L., Kimble, Pa. Building construction. 1,451,144; Apr. 10.
De Clairmont, Adolfo, Toledo, Ohio. Combined purse and bill fold. 1,451,205; Apr. 10.
Deere and Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See Welker, Henry C., assignor.)
Deere & Company. (See White, Charles H., assignor.)
De Lacy, Thomas H., Trenton, N. J. Hosiery form. 1,450,913; Apr. 10.
Deming Company, The. (See Vincent, Elbert S., assignor.)
Dennis, Gibbons J., Kiefer, Okla. Clamp. 1,451,091; Apr. 10.
Desplats, Domingo, Buenos Aires, Argentina. Electric signal transmitter. 1,451,328; Apr. 10.
De Vere, Eugene L., Chicago, Ill. Resilient shoe heel. 1,451,494; Apr. 10.
Dick, A. B., Company. (See Chipperfield, Walter, assignor.)
Dillon, Edward P., and A. A. Helmrod, assignors to Research Corporation, New York, N. Y. Electric precipitator. 1,451,418; Apr. 10.
Dills, Thomas O., Batesville, Miss. Dirigible headlight. 1,451,419; Apr. 10.
Dinsmoor, John L., Philadelphia, Pa. Audible signal device. 1,451,495; Apr. 10.
Dodge Tool Company. (See Larson, Arvid G., assignor.)
Dominguez, Manuel D., New Orleans, La. Electric heater. 1,451,537; Apr. 10.
Donaldson, Stephen M., Meggett, S. C. Railway signal. 1,451,438; Apr. 10.
Donlon, Charles. (See Kroonen, Leo, assignor.)
Doody, John E., Toronto, Ontario, Canada, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,293; Apr. 10.
Dorrington, H. T. (See Van Doren, Chester J., assignor.)
Doucet, Louis C. A. de B., London, England. Firearm for teaching or practicing the aiming thereof, and for adapting the same for signaling. 1,451,294; Apr. 10.
Douglass, Frank E. (See Townsend, W. S., and Douglass.)
Dow Chemical Company, The. (See Cottringer, P., and Collings, assignors.)
Dow, Vernon E., Muskegon, Mich. Strainer-cloth clamp. 1,451,206; Apr. 10.
Draeseke, Alfred W., and A. W. Parkes, Dundas, Ontario, Canada, assignors to Niles-Bement-Pond Company, New York, N. Y. Planer. 1,450,971; Apr. 10.
Draper, Thomas B., Toronto, Ontario, Canada. Dressing table. 1,451,207; Apr. 10.
Dreffein, Henry A., Chicago, Ill. Regulator for gas producers. 1,451,011; Apr. 10.
Drekmeier, Frederick J., Beloit, Wis. Automobile curtain. 1,451,255; Apr. 10.
Dressler, Alvin R., Sheboygan, Wis. Air filter for engines. 1,451,329; Apr. 10.
Dreyfus, Henry, London, England. Manufacture of cellulose derivatives. 1,451,330; Apr. 10.
Dreyfus, Henry, London, England. Manufacture of cellulose derivatives. 1,451,331; Apr. 10.
Driver, Arthur S. and S. R., Summit, N. J. Artificial-fly container. 1,451,295; Apr. 10.
Driver, Susan R. (See Driver, Arthur S. and S. R.)
Duchemin, George W., Newark, N. J. Machine for turning irregular forms. 1,451,496; Apr. 10.
Dunajeff, Leonid A., New York, N. Y. Speed indicator. 1,451,064; Apr. 10.
Dunham, Joseph C., Oklahoma, Okla. Weather strip. Re15,574; Apr. 10.
Dunn, Benjamin F., St. Paul, Minn. Tent-tension equalizer. 1,451,208; Apr. 10.
Dunston, Wayne E., assignor to C. Girl, Kalamazoo, Mich. Pivotal clamping device for bumpers and the like. 1,451,497; Apr. 10.
Dura Company, The. (See Nicholson, Stanley W., assignor.)
Durand, Victor, jr., Vineland, N. J. Making solid glass rods having bends therein. 1,451,361; Apr. 10.
Dye, Glen M., Minneapolis, Minn. Method and device for handling photographic films. 1,451,066; Apr. 10.
Dye, Glen M., Minneapolis, Minn. Photographic-developing apparatus and method. 1,451,065; Apr. 10.
Eaton, Crane & Pike Company. (See Hopkins, Leonard, assignor.)
Ecker, William B., assignor of one-fourth to D. B. Cheever, Chicago, Ill. Tire spreader. 1,450,944; Apr. 10.
Eckert, Fritz, Wetzlar, Germany. Hollow wall. 1,451,439; Apr. 10.
Eckstein, Henry G., Chicago, Ill., assignor, by mesne assignments, to The Cracker Jack Co. Manufacture of moistureproof packages. 1,451,145; Apr. 10.
Edmister, William W., Kokomo, Ind. Bottle attachment. 1,451,564; Apr. 10.
Edwards, Orin R. (See Haughey, Charles B., assignor.)
Egger, Louis, Sumiswald-Grunen, Berne, Switzerland. Book-sewing machine. 1,450,914; Apr. 10.
Ehrlich, Albert H., St. Joseph, Mo. Display refrigerator. 1,451,565; Apr. 10.
Ehrlich, Albert H., St. Joseph, Mo. Refrigerator display counter. 1,451,566; Apr. 10.
Eisenhart, George W., assignor to Mid-East Specialty Company, Inc., Binghamton, N. Y. Handle construction for paper bags. 1,451,652; Apr. 10.
Elastic Paint Co. (See Goldthorpe, Edwin T., assignor.)
Elder, Andrew D. (See Elder, Robert B., assignor.)
Elder, Robert B., assignor to A. D. Elder, Denver, Colo. Hydraulic classifier. 1,451,067; Apr. 10.
Electric Arc Cutting & Welding Company. (See Holslag, Claude J., assignor.)
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Cumaron paint. 1,451,092; Apr. 10.

Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis Resilient wheel Corporation. (See Patch, H. M., and Romney, assignors.)
Ellison, Edward H., Jamestown, N. Y. Metallic frame for windows, doors, etc. 1,451,012; Apr. 10.
Elmore, Richard E., New York, N. Y. Locking system for automobiles. 1,451,209; Apr. 10.
Emery, Erastus, Pittsburgh, Pa. Brake-shoe key. 1,451,332; Apr. 10.
Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Ventilator. 1,451,538; Apr. 10.
Eppenstein, Otto, assignor to Firm of Carl Zeiss, Jena, Germany. Stereoscopic telemeter. 1,450,915; Apr. 10.
Erickson, Charles E., Delta, Utah, and M. J. Mast, Grand Junction, Colo. Gold-panning machine. 1,451,567; Apr. 10.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,191; Apr. 10.
Ericsson, Elov, St. Paul, Minn. Rotary steam engine. 1,451,653; Apr. 10.
Eriksson, Erik O. (See Ljungstrom, F., Broberg, and Eriksson.)
Esch, Henry S., New York, N. Y. Articulated tire guard. 1,451,013; Apr. 10.
Eslick, Joseph S., San Jose, Calif. Motor-cycle support. 1,451,210; Apr. 10.
Eustis, Frederic A., Milton, C. R., Hayward, Quincy, and H. M. Schleicher and D. Belcher, Boston, Mass., assignors of one-half to said Eustis and one-half to C. P. Perin, New York, N. Y. Making electrolytic iron. 1,451,333; Apr. 10.
Evans, Arthur N. (See Casper, George C., assignor.)
Ewell, Charles O., Dyer, Tenn. Barrel. 1,451,068; Apr. 10.
Ewing, James C., Oakland, Calif. Pyjamas. 1,451,093; Apr. 10.
Faitz, Gustav A., Chicago, Ill. Ratchet wrench. 1,451,498; Apr. 10.
Faries, Robert, Williamsport, Pa., assignor to A. Schrader's Son, Inc., New York, N. Y. Pressure gauge. 1,451,038; Apr. 10.
Farley, John W., trustee. (See Tolson, Robert L., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door-control device. 1,451,441; Apr. 10.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,451,440; Apr. 10.
Farnham, Bion B., Buffalo, N. Y. Vacuum roll. 1,451,568; Apr. 10.
Fate, Daisy L., executrix. (See Fate, John L.)
Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Rack for stacked containers. 1,451,146; Apr. 10.
Fay, John L., St. Louis, Mo. Chassis lubricating and cleaning system. 1,451,388; Apr. 10.
Feder, Louis H., assignor of one-half to R. S. Bondy, Cleveland, Ohio. Curtain-supporting means for automobile doors. 1,451,147; Apr. 10.
Fether, George A., El Dorado, Pa. Nut and bolt lock. 1,451,014; Apr. 10.
Fibre Corporation Limited. (See Michot, Georges, assignor.)
Fike, Oliver P., assignor of one-half to E. M. Hoppenberg, Findlay, Ohio. Conveyer. 1,450,952; Apr. 10.
Firestone, Joseph B., Roanoke, La. Band cutter and feeder. 1,451,442; Apr. 10.
Firestone Tire and Rubber Company. (See Maranville, Harvey H., assignor.)
Fisher, Frank L., et al. (See Burns, Fred T., assignor.)
Flannery, Martin A., New York, assignor to Will & Baumer Candle Co., Inc., Syracuse, N. Y. Votive stand. Des. 62,190; Apr. 10.
Fleischer, Paul W., Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y. Automatic chain-feed attachment. 1,451,015; Apr. 10.
Floring, Frank H., Syracuse, N. Y. Clutch-pedal control for motor vehicles. 1,451,148; Apr. 10.
Fontaine, Marie A., Manchester, N. H. Abdominal supporter. 1,450,953; Apr. 10.
Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Fastening device for motor-vehicle hoods. 1,451,002; Apr. 10.
Ford, James H., Mount Vernon, N. Y. Locking device for automobiles. 1,451,490; Apr. 10.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric heating system for ironing machines. 1,451,539; Apr. 10.
Forton, George, Detroit, Mich. Handsaw. 1,451,211; Apr. 10.
Foster, Theodore W., & Bro. Co. (See Foster, Theodore W., assignor.)
Foster, Theodore W., assignor to Theodore W. Foster & Bro. Co., Providence, R. I. Vanity case. Des. 62,200; Apr. 10.
Fowler, Elbert, Baltimore, Md. Machine gun. 1,451,443; Apr. 10.
Fowler, William C., Birmingham, Ala. Convertible vehicle body. 1,451,016; Apr. 10.
France, William A., Philadelphia, Pa. Manufacture of self-hardening refractory articles. 1,451,540; Apr. 10.
Franklin Optical Company. (See Bugbee, Lucian W., assignor.)
Franklin, Sterling B., and G. S. Younkin, Arkansas City, Kans. Light shield and reflecting device. 1,451,017; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Crushing machine. 1,451,149; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Machine for crushing and grinding. 1,451,156; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Machine for crushing or grinding. 1,451,150; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Machine for crushing or grinding. 1,451,151; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Machine for crushing or grinding. 1,451,155; Apr. 10.
Fraser, George H. Brooklyn, N. Y. Machine for grinding and crushing. 1,451,154; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Pulverizing mill. 1,451,152; Apr. 10.
Fraser, George H., Brooklyn, N. Y. Pulverizing mill. 1,451,153; Apr. 10.
Frederick, Foster T. (See Smith, A. J., and Frederick.)
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for making propellers. 1,451,541; Apr. 10.
Frederick, Roland, Fairmount, Ind. Permutation switch. 1,451,569; Apr. 10.
French, James C., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Motor-truck dumping vehicle. 1,451,018; Apr. 10.
Frey, Elmer E., Long Beach, Calif. Time switch. 1,451,094; Apr. 10.
Friedley Voshardt Co. (See Mohrmann, Paul, assignor.)
Frobbieter, Gerhard E., Princeton, Ind. Process and means for removing corroded terminals from storage batteries. 1,451,500; Apr. 10.
Frost, Eber. (See Gavel, S., and Frost.)
Ftyklo, Andrew, Braznell, Pa. Combination utensil. 1,451,542; Apr. 10.
Fulton Iron Works Company. (See Hurter, Henry, assignor.)
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine and method applicable in the cutting of sheet material. 1,450,945; Apr. 10.
Fye, John G., Ollie, Iowa. Valve-spring-lifting device. 1,451,212; Apr. 10.
Fynn, Valère A., assignor, by mesne assignments, to Wagner Electric Corporation, St. Louis, Mo. Speed-regulating apparatus. 1,451,501; Apr. 10.
Fynn, Valère A., assignor, by mesne assignments, to Wagner Electric Corporation, St. Louis, Mo. Speed-regulating apparatus. 1,451,502; Apr. 10.
Gagné, Augustin, assignor to Hemphill Company, Central Falls, R. I. Open or lace work knitting machine. 1,450,946; Apr. 10.
Gallagher, George D. (See Moore, J. B., and Gallagher.)
Gantt, Michael D. (See Youngson, James, assignor.)
Garcin, Marie L., New York, N. Y. Marking device. 1,451,654; Apr. 10.
Gardner, William C., Ardmore, Okla. Fishhook holder. 1,451,256; Apr. 10.
Gates, Frederic P., West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,451,570; Apr. 10.
Gavel, Stephen, and E. Frost, Olds, Alberta, Canada. Shock absorber. 1,450,954; Apr. 10.
Gay, Edward E., Springdale, Ark. Apple-preparing machine. 1,451,571; Apr. 10.
Gebauer, Charles L., et al. (See Helm, Emerson B., assignor.)
Geddes, Charles A., Philadelphia, Pa., assignor to National Carbonator Manufacturing Company, Incorporated. Carbonator and draft arm for soda water. Re15,575; Apr. 10.
Gee, Norman E., assignor of one-half to J. W. Parks, Altoona, Pa. Milk receptacle. 1,451,420; Apr. 10.
General Motors Corporation. (See Forbes, Kingston, assignor.)
Gerbig, Bert G., Seattle, Wash. Circuit breaker. 1,451,157; Apr. 10.
Gestas, Isidore, Los Angeles, Calif. Boring machine for paper. 1,451,610; Apr. 10.
Gibbons, William J., Philadelphia, Pa. Contact for electric knife switches. 1,451,296; Apr. 10.
Gilbert, Harold K., Garner, Iowa. Direction signal for automobiles. 1,451,213; Apr. 10.
Gile Engine Company. (See Gile, William A., assignor.)
Gile, William A., Stoneham, assignor to Gile Engine Company, Boston, Mass. Internal-combustion engine. 1,450,916; Apr. 10.
Gill, David R., assignor of one-half to H. M. Sturgeon, Erie, Pa. Forging press. 1,450,947; Apr. 10.
Gillcy, Sullivan E., New York, N. Y. Auxiliary seat for automobiles. 1,451,655; Apr. 10.
Gilson, Ara, assignor to Packard Motor Car Company, Detroit, Mich. Lock for motor vehicles. 1,451,039; Apr. 10.
Ginabat, André, Paris, France. Surface condenser. 1,451,334; Apr. 10.
Girl, Christian. (See Dunston, Wayne E., assignor.)
Girl, Christian. (See Short, Bladen M., assignor.)
Glassman, Allan, New York, N. Y. Bonquet holder. 1,450,955; Apr. 10.

Gleason, C. Roy. (See Fate, John L., assignor.)
Glidden, Harvey L., Needham Heights, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,450,948; Apr. 10.
Goertz, August, & Co. (See Goertz, Frederick, assignor.)
Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co. Combined stiffening and closing device for bags. 1,451,504; Apr. 10.
Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co. Container. 1,451,505; Apr. 10.
Goetz, Henry A., Chicago, Ill. Dirigible airship. 1,451,503; Apr. 10.
Goitre, Mario, Turin, Italy. Tab of guide cards for card indexes and the like. 1,451,214; Apr. 10.
Goldee Mfg. Co. (See Olshan, Harry, assignor.)
Goldthorpe, Edwin T., assignor to Elastic Paint Co., Chicago, Ill. Drier. 1,450,917; Apr. 10.
Gombos, Karoly. (See Toth, F., and Gombos.)
Goodman, Irving, New York, N. Y. Bloomers. 1,451,421; Apr. 10.
Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
Goodwin, Lewis A., Cora, Mo. Cooling system for houses or rooms. 1,451,215; Apr. 10.
Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
Gossner, Joseph, New York, N. Y. Combined ash tray, match holder, and cigar cutter. Des. 62,201; Apr. 10.
Gottsch, Christian H., New Hyde Park, N. Y. Drainpipe trap. 1,450,956; Apr. 10.
Graber, Henry P., assignor to Adam Fisher Mfg. Co., St. Louis, Mo. Vacuum massager. 1,451,019; Apr. 10.
Graf, Fredrik, Krokslatt, and J. W. Svensson, Molndal, Sweden. Self-acting friction clutch. 1,451,506; Apr. 10.
Graff, Oscar, Philadelphia, Pa. Shoe lacing. 1,450,918; Apr. 10.
Graham, Ulysses G. (See Lorig, E. V., and Graham.)
Grannan, Thomas W. and W. D., Loogootee, Ind. Internal-combustion engine. 1,451,389; Apr. 10.
Grannon, William D. (See Grannon, Thomas W. and W. D.)
Grant, Hugo B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-elevating device for motor-vehicle engines. 1,451,158; Apr. 10.
Green, William R., Downers Grove, Ill. Measuring instrument. 1,451,572; Apr. 10.
Greene, Gustave F., South Manchester, Conn. Apron. 1,451,095; Apr. 10.
Greene, John S., Rochester, N. Y., assignor to Commercial Camera Company, Providence, R. I. Photographic dark room. 1,451,159; Apr. 10.
Greenfield Tap and Die Corporation. (See Morgan, R. L., Griffith, and Churchill, assignors.)
Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading machine. 1,451,020; Apr. 10.
Greenslade, Louis M., Los Angeles, Calif. Spring-leaf spreader. 1,451,297; Apr. 10.
Greger, George G., Detroit, Mich. Wheeled toy. Des. 62,202; Apr. 10.
Greth, August, Los Angeles, Calif. Windmill. 1,451,298; Apr. 10.
Griffith, Winifred S. (See Morgan, R. L., Griffith, and Churchill.)
Gruetter, John R., Cleveland, Ohio. Discharge mechanism. 1,451,216; Apr. 10.
Guelbaum, David, Syracuse, N. Y. Grain-cutting machine. 1,451,217; Apr. 10.
Guilbert, Augustus T., Pasadena, Calif. Statuette lamp stand. Des. 62,203; Apr. 10.
Gulick, Edward J., Elkhart, Ind., assignor to Packard Motor Car Company, Detroit, Mich. Steering-rod connection. 1,451,040; Apr. 10.
Guyatt, Christopher G. (See Allebrand, C. W., and Guyatt.)
Guynn, John M., assignor of one-half to J. D. McLain, Newport, Ark. Dumping wagon. 1,451,218; Apr. 10.
H-R Manufacturing Company. (See Hilliard, Harry D., assignor.)
Haas Electric Sales Company, The. (See Haas, Max L.)
Haas, Joseph, jr., Muncie, Ind., assignor to The Roessler & Hassiacher Chemical Company, New York, N. Y. Electroplating with zinc. 1,415,543; Apr. 10.
Haas, Max L., assignor to The Haas Electric Sales Company, Cleveland, Ohio. Electric fixture. Des. 62,204; Apr. 10.
Hagen, Oscar A., Fargo, N. Dak. Telescope. 1,451,096; Apr. 10.
Hahnemann, Walter, Kitzeberg, near Kiel, Germany, assignor to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Sound-signaling device for dense sound-propagating mediums. 1,451,422; Apr. 10.
Halferty, Peter F., Grayland, Wash. Fly hook and leader. 1,451,656; Apr. 10.
Hammond, William P., Passaic, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure gauge. 1,451,257; Apr. 10.
Handley, George F., Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,451,423; Apr. 10.
Hondoll, Percy G., Battersea, London, England. Cleaner for water-tube boilers. 1,450,957; Apr. 10.
Hanks, George R., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Grinding body and producing same. 1,451,335; Apr. 10.
Hanner, Edward, Philadelphia, Pa. Hoop. 1,451,258; Apr. 10.
Hansen, August, Aberdeen, S. Dak. Automatic punching device. 1,451,219; Apr. 10.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Independent rotation for percussive tools. 1,451,362; Apr. 10.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Lug chuck for rock drills. 1,451,363; Apr. 10.
Hanson, John, Alderson, Alberta, Canada. Water drain for windows. 1,451,021; Apr. 10.
Hanson, John A., Harwood, N. Dak. Seal case and ejector. 1,451,069; Apr. 10.
Harrington, Norman T., Cleveland, Ohio. Tower. 1,451,259; Apr. 10.
Harris, Loy E., and T. A. Leach, Emporia, Kans. Gravity angle meter for dental radiography. 1,451,507; Apr. 10.
Harris, Paul, New York, N. Y. Rheostat. 1,450,919; Apr. 10.
Haskell, Samuel, Brooklyn, N. Y. Phonograph doll. 1,451,022; Apr. 10.
Hastings Manufacturing Company. (See Johnson, A. E., and Taffee, assignors.)
Haughey, Charles B., Council Bluffs, assignor of one-half to O. R. Edwards, Davenport, Iowa. Printing vulcanizer. 1,451,611; Apr. 10.
Hausner, Ben Z., New York, N. Y. Attaching means for separable fastener elements. 1,451,612; Apr. 10.
Haynn, Richard, and F. Münz, Fechenheim-on-the-Main, Germany, assignors to Leopold Cassella & Co., Gesellschaft mit beschränkter Haftung. Production of shot effects, not to be stained in piece dyeing. 1,451,299; Apr. 10.
Hayward, Carle R. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
Head, Ronald, Luton, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y. Means for grinding or pulverizing food or other substances of a similar nature. 1,451,424; Apr. 10.
Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Plait folder for sewing machines. 1,451,220; Apr. 10.
Heberling, John, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,451,160; Apr. 10.
Heenan & Froude Limited. (See Cruyt, Lucien C., assignor.)
Hefner, Jesse A. L., Danese, W. Va. Jay bar. 1,451,657; Apr. 10.
Helmrod, Albert A. (See Dillon, E. P., and Helmrod.)
Heinz, H. J., Company. (See Higerd, F. A., and Becker, assignors.)
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,451,544; Apr. 10.
Heotes, John, Tomahawk, Wis. Sliding drawer and locking means therefor. 1,450,974; Apr. 10.
Helfrecht, Fred A., Berkeley, Calif. Casing for holding counting disks. Des. 62,192; Apr. 10.
Helm, Emerson B., assignor of one-third to C. L. Gebauer and one-third to J. Benner, Cleveland, Ohio. Headlight for automobiles. 1,451,161; Apr. 10.
Helman, Calvin C., Cleveland, Ohio. Cord dispenser. 1,451,300; Apr. 10.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Gagné, Augustin, assignor.)
Henderson, Charles J., Chicago, Ill. Combined table and ironing board. 1,451,508; Apr. 10.
Hendrix, Roberta W., Chicago, Ill. Doll walker. 1,451,390; Apr. 10.
Hendry, Alexander and M. A., Glasgow, Scotland. Belt for machinery driving. 1,451,573; Apr. 10.
Hendry, Malcolm A. (See Hendry, Alexander and M. A.)
Henke, Clyde O. (See Brown, O. W., and Henke.)
Hennekin, Kaspar F., Seaside, Calif. Release device for towing. 1,451,658; Apr. 10.
Herr, Henry A., Chicago, Ill. Producing a matrix. 1,451,162; Apr. 10.
Herrmann, Charles F. (See Ladd, Earnest W., assignor.)
Heys, William E. (See Macpherson, R., and Heys.)
Hickok Manufacturing Company. (See Heberling, John, assignor.)
Higerd, Floyd A., Bellevue, Pa., and G. Becker, Silver Creek, N. Y., assignors to H. J. Heinz Company, Pittsburgh, Pa. Means for shipping fruit, etc. 1,451,070; Apr. 10.
Highland Body Manufacturing Company, The. (See Morrison, James, assignor.)
Hilliard, Harry D., assignor, by mesne assignments, to H-R Manufacturing Company, Chicago, Ill. Shock absorber for automobiles. 1,451,509; Apr. 10.
Hillman, Charles F., Wichita Falls, Tex. Oil-refining device. 1,451,574; Apr. 10.
Hinchliff, Ralph, assignor to Burson Knitting Company, Rockford, Ill. Openwork knitted fabric and producing same. 1,451,391; Apr. 10.
Hochman, Jacob, New York, N. Y. Quick-stop emergency brake for vehicles. 1,451,336; Apr. 10.
Hockman, Russel, assignor of one-third to H. H. Wilson and one third to E. B. Shaffer, Lock Haven, Pa. Automatic stock regulator for paper-making machines. 1,451,659; Apr. 10.

Hodgkiss, Frank, Oakland, Calif. Tractor. 1,451,613; Apr. 10.
Hoecke, David, Greenwich, Conn. Leaf turner. 1,451,614; Apr. 10.
Hoff, Chester A. (See Steese, J. C., and Hoff.)
Hoffman, Clarence O., assignor of one-half to L. Schulman, Detroit, Mich. Window-cleaning device. 1,451,221; Apr. 10.
Hoffstetter, Carl H., assignor to Odin Stove Manufacturing Company, Erie, Pa. Burner. 1,451,072; Apr. 10.
Hoffstetter, Carl H., assignor to Odin Stove Manufacturing Company, Erie, Pa. Stove. 1,451,071; Apr. 10.
Holland, Henry T., Windeld, N. Y. Comb. 1,451,260; Apr. 10.
Holmes, George E., Salt Lake City, Utah. Oil-shale retort. 1,451,575; Apr. 10.
Holmes, Levi, Raynham, Mass. Mold for rubber heels. 1,451,510; Apr. 10.
Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Electrode for electric-arc cutting or reducing. 1,451,392; Apr. 10.
Holtorp, Wilhelm, Hamburg, Germany. Bearing. 1,451,222; Apr. 10.
Hope, Alfred S., Chicago, Ill. Candle pointer. 1,451,163; Apr. 10.
Hopkins, Leonard, assignor, by mesne assignments, to Eaton, Crane & Pike Company, Pittsfield, Mass. Imprinting machine. 1,450,949; Apr. 10.
Hopkins, William L., Roslyn, assignor to American Lithographic Company, New York, N. Y. Display device. 1,451,023; Apr. 10.
Hoppenberg, Ernest M. (See Fike, Oliver P., assignor.)
Hormann, Diedrich F., assignor of one-half to E. F. Comegys, Oklahoma, Okla. Homogenizing valve. 1,451,393; Apr. 10.
Horvath, Kalman. (See Ardo, Joseph, assignor.)
Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible pinion. 1,451,576; Apr. 10.
Howard, Rowland G., Jackson, Tenn. Animal trap. 1,451,223; Apr. 10.
Huckestein, Norman C., Pittsburgh, Pa. Radiator guard. 1,451,337; Apr. 10.
Hurley, Roy F., assignor to A. T. Twesme, Galesville, Wis. Sterilizing holder for toothbrushes. 1,451,425; Apr. 10.
Hurst, Frederick G., Portland, Oreg. Fish screen. 1,451,394; Apr. 10.
Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-crushing apparatus. 1,451,164; Apr. 10.
Hustvedt, Olaf M., and H. J. Nichols, Washington, D. C. Spotting projectile. 1,451,395; Apr. 10.
Hubbard, James W., Eau Claire, Wis., assignor, by mesne assignments, to Continental and Commercial Trust and Savings Bank. Ticket-printing machine. Re15,576; Apr. 10.
Hunt, William J., St. Joseph, Mo. Tire-carrier lock. 1,451,615; Apr. 10.
Hutchinson, William M., New Kensington, Pa. Window screen. 1,450,920; Apr. 10.
Hyde, Burdon P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Producing distinctive articles. 1,451,041; Apr. 10.
Hyland, Edward J., Mount Morris, Ill. Curtain mounting for trucks. 1,451,690; Apr. 10.
Impellizieri, Joseph, Brooklyn, N. Y. Power-transmission mechanism. 1,451,516; Apr. 10.
Ingersoll, Fred, Omaha, Nebr. Frying-pan-cover holder. 1,451,545; Apr. 10.
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Instant Hot Primer Company. (See Sweet, Frederick D., assignor.)
International Motor Company. See Masury, Alfred F., assignor.)
International Scale Company. (See Osgood, Louis A., assignor.)
International Silver Company. (See Leech, John, assignor.)
Intertype Corporation. (See Sperry, Samuel E., assignor.)
Jacobs, George W. (See Wade, E. J., and Jacobs.)
Jallier, Gustave P., Paris, France. Fountain-pen spring safety clip. 1,451,261; Apr. 10.
Jantzen, Paul H. H., London, England. Dynamo-electric machine. 1,451,577; Apr. 10.
Jarmer, William C., Chicago, Ill. Weather strip. 1,450,921; Apr. 10.
Jenkins, Stanley S., Buffalo, N. Y. Invalid lifter and carrier. 1,450,950; Apr. 10.
Johannesen, Conrad A., Erie, Pa. Game board. 1,450,958; Apr. 10.
Johns, Elvy E., Heppner, Oreg. Adjustable bearing. 1,451,224; Apr. 10.
Johns-Manville, Incorporated. (See Carson, Clarence, assignor.)
Johnson, Aben E., and L. H. Taffee, assignors to Hastings Manufacturing Company, Hastings, Mich. Tire carrier. 1,451,262; Apr. 10.
Johnson, Edward H., assignor to The A. & J. Manufacturing Company, Binghamton, N. Y. Handle for kitchen utensils. 1,451,358; Apr. 10.
Johnson, James R., Omaha, Nebr. Pan lifter. 1,451,642; Apr. 10.
Jokisch, Rudolf. (See Schember, K., and Jokisch.)
Jones, Alfred E., Indian Orchard, Mass. Aeroplane race game. 1,451,511; Apr. 10.
Jones, Earle M., assignor to O. B. McClintock Company, Minneapolis, Minn. Burglar-alarm housing. Des. 62,205; Apr. 10.
Jones, Walter, Cleveland, Ohio. Shears sharpener. 1,451,396; Apr. 10.
Kalmus Comstock & Wescott Incorporated. (See Wescott, William B., assignor.)
Kaplan, Victor, Brunn, Czechoslovakia. Water turbine. 1,451,263; Apr. 10.
Keegan, Francis W. (See Pokorny, Frank, jr., assignor.)
Keene, Walter E., Baltimore, Md. Brush holder. Des. 62,193; Apr. 10.
Kellogg Switchboard and Supply Company. (See Suckoff, Samuel, assignor.)
Kellogg, Sylvanus H., Los Angeles, Calif. Measuring apparatus. 1,451,512; Apr. 10.
Kelly, Andrew, assignor to Borax Consolidated Limited, London, England. Manufacture of borax and boric acid. 1,450,975; Apr. 10.
Kelsey Wheel Company. (See Winter, John R., assignor.)
Kendall, William G., Newark, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,451,617; Apr. 10.
Kent, Thomas F., New York, N. Y. Burner. 1,451,546; Apr. 10.
Kerrick Steam Motors Company. (See Kerrick, Walter B., assignor.)
Kerrick, Walter B., assignor to Kerrick Steam Motors Company, Los Angeles, Calif. Oil burner. 1,451,460; Apr. 10.
Kimball, A., Company. (See Marsh, Alonzo K., assignor.)
Kincaid, Harry B. (See Sweeney, Daniel, assignor.)
King, Clifford G., Providence, R. I. Collapsible tube. 1,451,461; Apr. 10.
Kintzele, Julius H., St. Louis, assignor to Ste. Genevieve Wash Machine Corporation, Ste. Genevieve, Mo. Washing machine. 1,451,547; Apr. 10.
Kinzie, Charles J. (See Barton, L. E., and Kinzie.)
Kirby Manufacturing Company, The. (See Otterbein, Arthur, assignor.)
Kissel Motor Car Company, The. (See Palmer, H. D., and Brhel, assignors.)
Kitto, William H., jr., and S. B. Molles, Detroit, Mich.; said Kitto assignor to said Molles. Gear-cutting machine. 1,451,097; Apr. 10.
Klein, Abraham A., and M. F. Beecher, assignors to Norton Company, Worcester, Mass. Non-slip tile. 1,451,462; Apr. 10.
Kleinschmidt, Henry F. A., Johnstown, Pa., assignor to The Lorain Steel Company. Mold or form. 1,451,264; Apr. 10.
Klemmer, Conrad, and W. P. Koechel, Bogota, N. J.; said Koechel assignor to said Klemmer. Combined rheostat and socket. 1,451,024; Apr. 10.
Koechel, Walter P. (See Klemmer, C., and Koechel.)
Koehring Company. (See Winkler, Henry O., assignor.)
Kopperl, Joseph I. (See Reilly, Frank C., assignor.)
Korrectolite Company, Inc. (See Oliver, Eben F., assignor.)
Koretzky, Harry M., New York, N. Y. Flash light. 1,451,618; Apr. 10.
Korten, Ernest, Sunbury, Pa., assignor to Susquehanna Silk Mills, New York, N. Y. Bunch builder. 1,451,073; Apr. 10.
Kottas, Arthur, Vienna, Austria. Magazine firearm. 1,451,339; Apr. 10.
Kowalsky, Rudolf A., assignor to American Wringer Company, Woonsocket, R. I. Waterboard for wringing machines. 1,451,664; Apr. 10.
Kraft, Henry P., Ridgewood, N. J. Vulcanizing valve. 1,451,025; Apr. 10.
Kraft, Henry P. (See Schweinert, M., and Kraft.)
Krause, Robert J., Japatul, Calif. Sealing ring. 1,451,225; Apr. 10.
Kreisheid, Henry, Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Contact terminal. 1,451,548; Apr. 10.
Kroonen, Leo, Corona, assignor to C. Donlon, Oxnard, Calif. Building construction. 1,451,340; Apr. 10.
Kucewicz, Joseph C., Cleveland, Ohio. Hairpin. 1,451,397; Apr. 10.
Kupec, Joseph F., Lincoln, Nebr. Automobile radiator system. 1,451,364; Apr. 10.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,463; Apr. 10.
Kyger, Frank L., Streator, Ill. Soldering iron. 1,451,578; Apr. 10.
Kyle, Nicholas W., Colfax, Ill. Lifting device. 1,451,549; Apr. 10.
L-T-L Company. (See Thulander, Konstantine, assignor.)
Ladd, Earnest W., assignor of one-half to C. F. Herrmann, New York, N. Y. Speed regulator for phonographs. 1,451,665; Apr. 10.
Ladinsky, Stanley, Newark, N. J. Window-sash holder. 1,451,226; Apr. 10.
Lake Torpedo Company, The. (See Björklund, Eric G., assignor.)

Landing, William H., assignor of one-half to A. Lindsey, Santa Ana, Calif. Lock. 1,451,265; Apr. 10.
Lane, Daniel F., Painted Post, N. Y. Washing machine. 1,451,513; Apr. 10.
Langenau Manufacturing Company. (See Yemniker, Rudolph M., assignor.)
Lango, Charles H., assignor to The Noshok Co., Detroit, Mich. Rebound absorber. 1,451,227; Apr. 10.
Larson, Arvid G., assignor to Dodge Tool Company, Grinnell, Iowa. Fuel-feeding device for internal-combustion engines. 1,451,228; Apr. 10.
Larson, Edward, Lerdala, Sweden. Safety device for portable firearms. 1,450,976; Apr. 10.
Larsonneur, David L. A., Chicago, Ill. Governor. 1,451,365; Apr. 10.
Latrace, Septiamus, Saskatoon, Saskatchewan, Canada. Folding door for garages. 1,451,619; Apr. 10.
Lawler, James M., assignor of one-half to T. H. Cutsinger, Topeka, Kans. Optician's tool. 1,450,959; Apr. 10.
Lazara, Ignacio, Salem, Va. Web-feeding device. 1,451,579; Apr. 10.
Leach, Troy A. (See Harris, L. E., and Leach.)
Le Blanc, Joseph A., Salem, Mass. Nonskidding tire shoe. 1,451,074; Apr. 10.
Le Compte, Harry J., Oklahoma, Okla. Stovepipe fastener. 1,451,043; Apr. 10.
Lecuyer, Stanly, Detroit, Mich.. Lock. 1,451,464; Apr. 10.
Leech, John, Bridgeport, assignor to International Silver Company, Meriden, Conn. Fork or similar article. Des. 62,206; Apr. 10.
Leilich, Frank T., Baltimore, Md. Switch lock. 1,451,366; Apr. 10.
Leonard, Caswell L., Corinth, Miss. Vegetable slicer. 1,451,075; Apr. 10.
Leonard, Joseph P., Paterson, N. J. Device for detecting overheated bearings. 1,451,044; Apr. 10.
Leopold, Cassella & Co. Gesellschaft mit beschränkter Haftung. (See Haynn, R., and Münz, assignors.)
Lesh, Lawrence J., assignor to E. J. Simon, New York, N. Y. Spark-gas apparatus. 1,451,426; Apr. 10.
Lesh, Lawrence J., assignor to E. J. Simon, New York, N. Y. Spark-gas apparatus. 1,451,427; Apr. 10.
Lespinasse, Victor D., Chicago, Ill. Instrument for removing the testicles of birds. 1,451,398; Apr. 10.
Limoseth, Bernt, Westby, Wis. Draft attachment. 1,451,620; Apr. 10.
Lindenberg, Moritz T., Boston, Mass. Liquid motor. 1,451,580; Apr. 10.
Lindsey, Al. (See Landing, William H., assignor.)
Ljungstrom, Frederik, I. Broberg, and E. O. Ericksson, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Reversible gearing. 1,451,266; Apr. 10.
Locomobile Company, The. (See Church, Harold D., assignor.)
Locomobile Company, The. (See Rosner, Adolph, assignor.)
Loepfe, Louis H., St. Louis, Mo. Window-cleaner's seat. 1,451,076; Apr. 10.
London, Louis B., New York, N. Y. Bowl for lighting fixtures. Des. 62,207; Apr. 10.
Long, Claud L., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Cutter-head drive for last lathes. 1,451,665; Apr. 10.
Long, William H., New York, N. Y. Printing press. 1,451,045; Apr. 10.
Lontz, Harry R., Richmond, Ind. Resilient bearing sleeve. 1,451,428; Apr. 10.
Lontz, Harry R., Richmond, Ind. Making resilient bearing sleeves. 1,451,429; Apr. 10.
Lorain Steel Company, The. (See Kleinschmidt, Henry F. A., assignor.)
Lorig, Emanuel V., and U. G. Graham, Omaha, Nebr. Protective apparatus for safes and safety vaults. 1,451,581; Apr. 10.
Louden Machinery Company, The. (See Neller, Albert H., assignor.)
Loudenslager, Edgar L., Toledo, Ohio. Tile manufacture. 1,451,229; Apr. 10.
Loudon, Warren P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. 1,451,550; Apr. 10.
Low, Eugene P., Oneida Castle, N. Y. Attachment for headlights. 1,451,582; Apr. 10.
Low, Frank S., Niagara Falls, N. Y., assignor to Weaver Company, Madison, Wis. Producing halogen acids. 1,451,399; Apr. 10.
Lubac, Alfred, Paris, France. Printing-type-composing apparatus. 1,450,960; Apr. 10.
Luckett, William S., Chestnut Hill, Pa. Clear-vision rain guard for windshields. 1,450,977; Apr. 10.
Lunken, Edmund H., Cincinnati, Ohio. Window. 1,451,077; Apr. 10.
Lupton, William B., Windermere, England. Paperhanger's tool. 1,451,444; Apr. 10.
Lüske, Karl, Budapest, and A. Moussong and P. Moussong, Tolna-Hogyesz, Hungary. Stove. 1,450,978; Apr. 10.
Lyttleton, Henry T., Marshall, Tex. Sweet-potato-curing apparatus. 1,450,979; Apr. 10.
McCauley, Chester B., Palo Alto, Calif. Hydraulic-nossle construction. 1,451,165; Apr. 10.
McCardle, Samuel, Strathcona, Canada. Flypaper holder. 1,451,583; Apr. 10.
McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal and Supply Company, Chicago, Ill. Signal device. 1,451,166; Apr. 10.
McClintock, O. B., Company. (See Jones, Earle M., assignor.)
McDonell, William E., assignor to Shur-On Optical Company, Inc., Rochester, N. Y. Ophthalmic mounting. 1,451,098; Apr. 10.
McGregor, Alexander G., Warren, Ariz. Calcine car. 1,450,980; Apr. 10.
McLain, John D. (See Guynn, John M., assignor.)
McLaughlin, William C., Oakland, Calif. Amalgamator. 1,451,099; Apr. 10.
McLoughlin, Patrick, Worcester, Mass. Chain. 1,450,981; Apr. 10.
McRuer, Donald, and J. E. Sellers, Phoenix, Ariz. License plate. 1,451,621; Apr. 10.
Mabee, May C., Toledo, Ohio. Apparatus for treating materials. 1,451,168; Apr. 10.
MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for forming straps and applying the same to articles. 1,451,167; Apr. 10.
Macpherson, Robert, Worthington, and W. E. Heys, Bushey, England. Antiseptic and insecticidal soap or composition. 1,451,670; Apr. 10.
Maddock Pottery Company. (See May, Charles A., assignor.)
Mahoney, Thomas J., Colorado Springs, Colo. Marble shooter. 1,451,230; Apr. 10.
Mansmith, Chauncy I. (See Staley, E. H., and Mansmith.)
Mantha, William L., Bayport, N. Y. Adjustable holder for turning crank shafts. 1,451,078; Apr. 10.
Mapes, James R., Canaseraga, N. Y. Gun sight. 1,451,584; Apr. 10.
Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for the preparation of tire beads. 1,451,169; Apr. 10.
Marko, Stephan, Chicago, Ill. Treating shale. 1,451,367; Apr. 10.
Marlatt, George E., Pasadena, Calif. Typographic matrix and production of same. 1,451,170; Apr. 10.
Marquis, Alister W., Hollister, Calif. Boring machine. 1,451,585; Apr. 10.
Marsh, Alonzo K., assignor to A. Kimball Company, New York, N. Y. Marking ticket. 1,451,341; Apr. 10.
Marshall, Melville J., and G. S. Shaw, Shawinigan Falls, assignors to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Removing destructive substances from non-aqueous media. 1,450,982; Apr. 10.
Marston, Howard F., Dayton, Ohio. Size-reducible box. 1,451,622; Apr. 10.
Mast, Matthew J. (See Erickson, C. E., and Mast.)
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Wheel mounting for motor-propelled railway cars. 1,451,267; Apr. 10.
Matheson, Howard W., assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Making condensation products of aliphatic aldehydes. 1,450,984; Apr. 10.
Matheson, Howard W., assignor to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Manufacture of aldehyde-ammonia. 1,450,983; Apr. 10.
Mathews, Annie, et al., executors. (See Mathews, Thomas.)
Mathews, Thomas, deceased, Leicester, England; A. Mathews and H. W. Buckingham, executors. Cardboard and like toy. 1,451,301; Apr. 10.
Mattick, Victor A. (See Pelling, E. R., and Mattick.)
Mattson, Julius, Chicago, Ill. Silo. 1,451,171; Apr. 10.
Maxwell, Joseph M., Wichita, Kans. Regenerating beds of exchange silicates. 1,450,985; Apr. 10.
Maxwell, William, Revere, Mass. Scenic effect. 1,451,046; Apr. 10.
May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Plate or similar article. Des. 62,208; Apr. 10.
May, Frederic, Vienna, Austria. Cutting device for copying machines. 1,451,445; Apr. 10.
Mayer, Grover C. F., Brooklyn, N. Y. Window guard. 1,451,172; Apr. 10.
Mead, Robert P., and R. B. Thompson, Chicago, Ill. Foldable stool. 1,451,047; Apr. 10.
Mendes, Prestiliano, Valmy, Nev. Food-preparing utensil. 1,451,342; Apr. 10.
Michot, Georges, Dromara, Ireland, assignor to Fibre Corporation Limited, London, England. Flax-pulling machine. 1,451,231; Apr. 10.
Mid-East Specialty Company. (See Eisenhart, George W., assignor.)
Miebach, Harry E., and A. S. Caughey, Lethbridge, Alberta, Canada. Transmission-case cover. 1,451,173; Apr. 10.
Mihalyi, Joseph, Washington, D. C. Optical testing and measuring instrument. 1,451,302; Apr. 10.
Miller, Charles M. (See Schroeder, E. R., and Miller.)
Miller, Edward C., Williamsport, Pa. Air-pressure indicator and gauge. 1,451,514; Apr. 10.
Miller, John O., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Grille for phonograph cabinets. Des. 62,194; Apr. 10.
Miller, Leo O., Detroit, Mich. Lock for milk cabinets. 1,451,100; Apr. 10.

Miller, Richard E., Bay Village, Ohio. Automatic windshield-cleaning device. 1,451,368; Apr. 10.
Miller, Steve, San Antonio, Tex. Traffic signal. Des. 62,209; Apr. 10.
Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Production of alpha-naphthylamine. 1,451,666; Apr. 10.
Milliner, Edgar, St. Louis, Mo. Soldering iron. 1,451,623; Apr. 10.
Mills Belt Company. (See Smith, Clarence E., assignor.)
Mills, James M., Helena, Mont. Grease gun. 1,451,446; Apr. 10.
Millsaps, Jefferson H., Chicago, Ill. Lumber-sawing implement. 1,451,070; Apr. 10.
Miner, William H. (See O'Connor, John F., assignor.)
Mintrop, Ludger, Hanover, Germany. Field seismograph. 1,451,080; Apr. 10.
Mirus, Charles H., Louisville, Ky. Adjustable cap. 1,451,174; Apr. 10.
Mitchell, Edward A., London, England. Gas-distributing system. 1,451,303; Apr. 10.
Mitchell, Mary P., Eaton, Ohio. Inner tube. 1,451,304; Apr. 10.
Mitchell Rail Anchor Company Inc. (See Runyan, William B., assignor.)
Moe, George, Saginaw, Mich. Brush construction. 1,451,400; Apr. 10.
Mohrmann, Paul, assignor to Friedley Voshardt Co., Chicago, Ill. Bracket back for lighting fixtures. Des. 62,210; Apr. 10.
Molles, Stanley B. (See Kitto, W. H., jr., and Molles.)
Momenee, Edward J., Lima, Ohio. Honeycomb-candy cutting and cooling machine. 1,451,081; Apr. 10.
Montague, William L., and B. Welser, assignors to Chain Belt Company, Milwaukee, Wis. Sprocket chain. 1,451,624; Apr. 10.
Montague, William L., and G. B. Welser, jr., assignors to Chain Belt Company, Milwaukee, Wis. Sprocket chain. 1,451,625; Apr. 10.
Moore, Harvey W., and C. H. Schumacher, Stockton, Calif. Electric jack. 1,451,048; Apr. 10.
Moore, James B., and G. D. Gallagher, Washington, D. C. Coin-controlled clock bank. 1,451,305; Apr. 10.
Morgan, Edmund C., Richmond Hill, N. Y. Apparatus for mining. 1,451,101; Apr. 10.
Morgan, Ralph L., W. S. Griffith, and E. Churchill, jr., Worcester, assignors, by mesne assignments, to Greenfield Tap and Die Corporation, Greenfield, Mass. Magnetic chuck. 1,451,268; Apr. 10.
Morrison, James, assignor to The Highland Body Manufacturing Company, Cincinnati, Ohio. Vehicle body and the like. 1,451,626; Apr. 10.
Morrison, James. (See Steiner, H. W., Shipley, and Morrison.)
Morrison, Robert A., and F. L. Oswald, Portland, Oreg. Ironing board. 1,450,986; Apr. 10.
Mosler Lock Company. (See Benham, William T., assignor.)
Moussong, Andor. (See Lüske, K., and Moussong.)
Moussong, Paul. (See Lüske, K., and Moussong.)
Muehleisen, Thomas, San Diego, assignor of one-third to C. Musch, Fullerton, Calif. Water-heater mechanism. 1,451,551; Apr. 10.
Munkel, Walter G., Anamosa, Iowa. Toilet hopper. 1,451,430; Apr. 10.
Munson, Sweney, Fowler, Colo. Tractor spreader. 1,451,627; Apr. 10.
Münz, Ferdinand. (See Haynn, R., and Münz.)
Murdock, Albert O., Fort Payne, Ala. Reserve oil tank and gauge for automobiles. 1,451,232; Apr. 10.
Murray, Thomas E. and T. E., jr., Brooklyn, N. Y. Axle housing and making same. 1,451,401; Apr. 10.
Murray, Thomas E., jr. (See Murray, Thomas E. and T. E., jr.)
Musch, Conrad. (See Muehleisen, Thomas, assignor.)
Muxen, Matthew B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Dispensing apparatus. 1,451,552; Apr. 10.
Myers, Wilson R., assignor of one-third to G. W. Burt and one-third to G. W. Weatherby, Portland, Oreg. Apparatus for positioning materials. 1,451,431; Apr. 10.
Nacke, Karl, assignor to United Spinning Co., Brooklyn, N. Y. Plate for lighting fixtures. Des. 62,211; Apr. 10.
Nakian, Reuben, West Hoboken, N. J. Figure toy. 1,451,628; Apr. 10.
Nannini, Cherubino, Manhattan, Nev. Hair clipper. 1,451,175; Apr. 10.
National Carbonator Manufacturing Company. (See Geddes, Charles A., assignor.)
Neale, Charles C., Toledo, Ohio, assignor of one-half to P. T. Ulmer, St. Paul, Minn. Nonvibratory tool guide. 1,451,102; Apr. 10.
Near, Wilmer M., New Era, Mich. Testing prod. 1,451,233; Apr. 10.
Neher, John S., North Manchester, Ind. Removable silo cover. 1,451,082; Apr. 10.
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Animal stanchion. 1,451,402; Apr. 10.
Nelson, Lawrence C., assignor to Stewart Manufacturing Corporation, Chicago, Ill. Carriage curtain window frame. 1,451,026; Apr. 10.
Nelson, Otto, Crystal Falls, Mich. Washing machine. 1,451,447; Apr. 10.
Neuland, Alfons H., assignor to Neuland Electrical Company, Inc., San Francisco, Calif. Power-transmission apparatus. 1,451,465; Apr. 10.
Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
New England Electric Company, The. (See Wade, Jem R., assignor.)
Newman, Daniel C., Elyria, Ohio. Mechanism for molding concrete blocks. 1,451,049; Apr. 10.
Nic-Heater Corporation. (See Nichols, James S., assignor.)
Nichols, Harry J. (See Hustvedt, O. M., and Nichols.)
Nichols, James S., assignor to Nic-Heater Corporation, Atlanta, Ga. Fireplace heater. Re15,577; Apr. 10.
Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Handle mounting for window regulators. 1,451,234; Apr. 10.
Niemczewski, Aloysius, Elmira, N. Y. Flower stand. 1,451,515; Apr. 10.
Niles-Bement-Pond Company. (See Draeseke, A. W., and Parkes, assignor.)
Nordblad, Gunnar F., assignor to R. M. Burns, Chicago, Ill. Weather strip. 1,451,466; Apr. 10.
Norton, Charles H., and A. Turner, assignors to Norton Company, Worcester, Mass. Work support for roll-grinding machines. 1,451,467; Apr. 10.
Norton Company. (See Booze, Macdonald C., assignor.)
Norton Company. (See Klein, A. A., and Beecher, assignors.)
Norton Company. (See Norton, C. H., and Turner, assignors.)
Noshok Co., The. (See Lango, Charles H., assignor.)
O'Connell, John E., Springfield, Mass. Picker or fiber-cleaning machine. 1,450,922; Apr. 10.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,451,103; Apr. 10.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,451,104; Apr. 10.
Odin Stove Manufacturing Company. (See Hoffsetter, Carl H., assignor.)
O'Donnell, William F., and C. Seybold, Chicago, Ill. Awning construction. 1,451,083; Apr. 10.
Oliver, Eben F., Jersey City, N. J., assignor to Korrectolite Company, Inc., New York, N. Y. Lighting fixture and producing same. 1,450,923; Apr. 10.
Olop, Stephen, Denver, Colo., assignor of one-third to A. L. Cunningham, St. Paul, Minn. Safety-pin. 1,451,105; Apr. 10.
Olsen, Haiften E., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Snow-melting apparatus. 1,451,027; Apr. 10.
Olshan, Harry, Newark, N. J., assignor to Goldee Mfg. Co., Inc., Brooklyn, N. Y. Lunch box. 1,451,568; Apr. 10.
Olson, Richard A., Ironwood, Mich. Single-valve wall register. 1,451,586; Apr. 10.
Ord, Craven R., Guelph, Ontario, Canada. Runner attachment for wheeled carriages. 1,450,924; Apr. 10.
Osgood, Louis A., assignor to International Scale Company, Dayton, Ohio. Counting device for scales. 1,451,403; Apr. 10.
Oswald, Franklin L. (See Morrison, R. A., and Oswald.)
Otterbein, Arthur, assignor to The Kirby Manufacturing Company, Middletown, Conn. Mounting bells on toys or other articles. 1,450,961; Apr. 10.
Packard Motor Car Company. (See Gilson Ara, assignor.)
Packard Motor Car Company. (See Gulick, Edward J., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Painter, William B., and E. A. Reeves, River Rouge, Mich. Attachment for ovens. 1,451,050; Apr. 10.
Palmer, Herman D., and J. W. Brhel, Hartford, Wis., assignors to The Kissel Motor Car Company, Hartford, Wis. Apparatus for measuring materials in concrete construction. 1,451,106; Apr. 10.
Palmer, Wayne F., Washington, D. C. Submarine mine. 1,451,107; Apr. 10.
Panagopolous, Nick, Muskogee, Okla. Mail receptacle. 1,451,343; Apr. 10.
Park, William H. (See Quin, F. J., and Park.)
Parke, Davis & Company. (See Aldrich, Thomas B., assignor.)
Parkes, Albert W. (See Draeseke, A. W., and Parks.)
Parks, Dennis, St. Louis, Mo. Heel-blank separator and former. 1,451,469; Apr. 10.
Parks, Joseph W., Altoona, Pa. Automobile floor-board clamp. 1,451,404; Apr. 10.
Parks, Joseph W. (See Gee, Norman E., assignor.)
Patch, Harry M., and R. R. Romney, assignors to Ellis Resilient Wheel Corporation, Seattle, Wash. Resilient wheel. 1,451,269; Apr. 10.
Patents Holding Corporation. (See Prouty, Theodore C., assignor.)
Pedersen, Anton, Dagmar, Mont., assignor of one-half to F. W. Berg, Grenora, N. Dak. Kitchen cabinet. 1,451,587; Apr. 10.
Pedersen, John E., Hillsboro, Ill., assignor to American Zinc, Lead & Smelting Compny, St. Louis, Mo. Machine for charging furnace retorts. 1,451,176; Apr. 10.

Peelle, Willis J., Chicago, Ill. Means for forming and securing gaskets to jar covers. 1,451,470; Apr. 10.
Pelling, Ernest R., Croydon, and V. A. Mattick, Beckenham, England. Motor tractor. 1,451,448; Apr. 10.
Pelser, Abraham P., Greenfield, Mass. Combustion-chamber carburetor. 1,451,629; Apr. 10.
Penn, Oscar S., Old Charlton, London, assignor to Roadless Traction, Limited, London, England. Flexible track and the like. 1,451,516; Apr. 10.
Pennsylvania Textile Mills Inc., The. (See Ericson, E., and Weiss, assignors.)
Perin, Charles P., et al. (See Eustis, F. A., Hayward, Schleicher, and Belcher, assignors.)
Perkins, Henry A., East Templeton, Mass. Vehicle brake. 1,451,630; Apr. 10.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Strip shingle. 1,451,369; Apr. 10.
Peterman, Charles L., York, Pa. Collapsible crate. 1,451,449; Apr. 10.
Peters, Leonard C., Providence, R. I. Means for reducing the capacity of fire boxes. 1,451,405; Apr. 10.
Peterson, Ernest A., Oakland, Calif. Pipe wrench. 1,451,084; Apr. 10.
Pethoud, Edouard, Lausanne, Switzerland. Sparking plug. 1,450,987; Apr. 10.
Pierce, Frank M., assignor to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping and unwrapping machine. 1,451,051; Apr. 10.
Pierce, James H., Shelburn, Ind. Traction wheel. 1,451,177; Apr. 10.
Pierce Wrapping Machine. (See Pierce, Frank M., assignor.)
Pokorny, Frank, jr., assignor of one-half to F. W. Keegan, New York, N. Y. Air heater. 1,451,471; Apr. 10.
Pomeroy, Ralph E. H., Canton, Ohio. Pulverizing mill. 1,451,472; Apr. 10.
Pope, William J., Holmesdale, Cambridge, assignor of one-half to Scottish Dyes Limited, Carlisle, Cumberland, England. Production of coloring matters. 1,451,270; Apr. 10.
Popper, Joseph, assignor of one-half to Baird-Daniels Co., Inc., New York, and one-half to R. H. Popper, Brooklyn, N. Y. Toy. 1,451,085; Apr. 10.
Popper, Ruby H., et al. (See Popper, Joseph, assignor.)
Post, Georgia A., Forest Hills, N. Y. Game. 1,451,108; Apr. 10.
Potash Reduction Company. (See Stevens, Truman E., assignor.)
Powell, Norris D., Chester, Pa., assignor, by mesne assignments, to Baldt Anchor & Chain Company. Anchor. 1,451,109; Apr. 10.
Powell, Norris D., Chester, Pa., assignor, by mesne assignments, to Baldt Anchor & Chain Company. Anchor. 1,451,370; Apr. 10.
Prahar, Robert L., Brooklyn, N. Y. Bag frame. 1,451,028; Apr. 10.
Prescott, William E., assignor to Joseph Baker & Sons, Limited, London, England. Charging of cocoa-butter presses and the like. 1,451,432; Apr. 10.
Proctor & Schwartz, Incorporated. (See Schwartz, W. M., and Ayres, assignors.)
Progress Press Brick and Machine Company. (See Stocke, Jacob, jr., assignor.)
Prouty, Theodore C., Elgin, assignor, by mesne assignments, to Patents Holding Corporation, Chicago, Ill. Needle valve. 1,451,371; Apr. 10.
Pulliam, Herbert A., assignor of one-half to L. J. Taylor, Eustis, Fla. Attachment for gatherers on sewing machines. 1,451,110; Apr. 10.
Pulverman, William E., Wilkes-Barre, Pa. Valve. 1,451,473; Apr. 10.
Purcell, Isaac T., Wakeeney, Kans. Making and exhibiting moving pictures. 1,451,086; Apr. 10.
Quicksafe Manufacturing Company. (See Waller, Robert H., assignor.)
Quin, Francis J., and W. H. Park, Belfast, Ireland. Automatic valve for pneumatic hose fittings. 1,451,372; Apr. 10.
Raje, Thor, Los Angeles, Calif. Cigarette holder. 1,451,235; Apr. 10.
Raphael, Reginald D. (See Wisroth, Ernst, assignor.)
Reed, Jesse O., Washington, D. C., assignor to Assistant Secretary of Agriculture of the United States of America. Pneumatic cleaning nozzle. 1,451,553; Apr. 10.
Reedy, John H., Hamilton, Ohio. Driving collar. 1,451,111; Apr. 10.
Reeves, Elizabeth A. (See Painter, W. B., and Reeves.)
Reid, Willard, et al. (See Smith, Hazor J., assignor.)
Reidt, Ulrich, Los Angeles, Calif. Hose valve. 1,451,588; Apr. 10.
Reilly, Frank C., assignor to J. I. Kopperl, New York, N. Y. Controller for electric signs. 1,451,112; Apr. 10.
Remy Electric Company, The. (See Rogers, Samuel, assignor.)
Rennie, Arthur L., Jamaica, N. Y. Brake-band lining. 1,450,925; Apr. 10.
Rentschler, Harvey C., Wilkinsburg, Pa., assignor to Westinghouse Lamp Company. Vapor arc lamp. 1,451,271; Apr. 10.
Research Corporation. (See Dillon, E. P., and Heimrod, assignors.)
Richardson, A. D., et al. (See Busby, Robert S., assignor.)
Richter, George A., assignor to Brown Company, Berlin, N. H. Producing catalytic material. 1,451,113; Apr. 10.
Ricksecker, Frederick K., Washington, D. C. Combined match and cigarette case. 1,451,433; Apr. 10.
Rinehart, Earl H. (See Davis, S. L., and Rinehart.)
Roadless Traction, Limited. (See Penn, Oscar S., assignor.)
Roberts, Clarence E., Hagerstown, Md. Loading cartridge for grease guns. 1,451,114; Apr. 10.
Roberts, Raney J., Detroit, Mich. Frame for sheet-metal tubs. 1,451,115; Apr. 10.
Robin, Jacob I., New York, N. Y. Gas burner. 1,451,116; Apr. 10.
Robinett, Winfield S., Seattle, Wash. Tire changer. 1,451,344; Apr. 10.
Robinson, Arthur W., Montreal, Quebec, Canada. Delivery pipe for hydraulic dredging machines. 1,451,272; Apr. 10.
Rockwell, Byrd C., Camden, Ark. Folding crate. 1,451,373; Apr. 10.
Rodgers, John, Jamaica, N. Y. Album. 1,451,474; Apr. 10.
Roedl, George C., Beaver Dam, Wis. Automobile perch. 1,450,988; Apr. 10.
Roesch, Daniel, Chicago, Ill. Priming device for internal-combustion engines. 1,451,434; Apr. 10.
Roessler & Hasslacher Chemical Company, The. (See Haas, Joseph, jr., assignor.)
Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Construction of electrical windings. 1,451,374; Apr. 10.
Romney, Richard R. (See Patch, H. M., and Romney.)
Rosenberg, James, Cleveland, Ohio. Device for printing intersecting lines. 1,451,475; Apr. 10.
Rosenbluth, Edwin M., Wallingford, Pa. Signaling device. 1,451,345; Apr. 10.
Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Fuel system for internal-combustion engines. 1,451,631; Apr. 10.
Ross, James, assignor to Advance Rumely Company, Laporte, Ind. Drive-wheel-locking device. 1,451,406; Apr. 10.
Rostin, Heliodor, Vallo, Norway. Treatment of hydrocarbons. 1,451,052; Apr. 10.
Rote, Charles V., assignor of one-half to E. W. Brown, Lancaster, Pa. Pull mechanism for railway cars. 1,451,178; Apr. 10.
Roth, Harry, Detroit, Mich. Photograph-display cabinet. 1,451,029; Apr. 10.
Rounds, Edward W., Washington, D. C. Landing gear for aeroplanes. 1,451,117; Apr. 10.
Royal Typewriter Company. (See Handley, George F., assignor.)
Ruan, John A., Beacon, Iowa. Signal. 1,451,053; Apr. 10.
Rubin, Herman, New York, N. Y. Loose-leaf binder. 1,451,273; Apr. 10.
Runyan, William B., assignor to Mitchell Rail Anchor Company, Inc., Dayton, Ohio. Rail anchor. 1,451,179; Apr. 10.
Russell, J. M. (See Clark, James H., assignor.)
Russell, Thomas F. (See Smith, A. L., and Russell.)
Rybicky, Antonina, New London, Conn. Sanitary cuspidor. 1,451,554; Apr. 10.
Santini, Battista, Roseville, Calif. Nonskid-tire protector. 1,451,054; Apr. 10.
Sargent, Charles E., Indianapolis, Ind. Internal-combustion engine. 1,451,407; Apr. 10.
Sawin, Lester M., Chicago, Ill. Display case. 1,451,055; Apr. 10.
Schember, Kornelius, Atzgersdorf, near Vienna, Austria, and R. Joksch, Prague Karolinenthal, Czechoslovakia. Electric steelyard weighing machine. 1,451,118; Apr. 10.
Schenstrom, William, Brooklyn, N. Y. Arc-welded truss. 1,451,555; Apr. 10.
Schieber, Robert E., Detroit, Mich. Push-button construction. 1,451,476; Apr. 10.
Schindler, Walter R., Los Angeles, Calif. Irrigation signal. 1,451,056; Apr. 10.
Schindler, Walter R., Los Angeles, Calif. Paper-cupping machine. 1,451,057; Apr. 10.
Schlatter, Rudolph, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Piston-cooling device. 1,451,375; Apr. 10.
Schleicher, Henry M. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
Schless, Maurice J., New York, N. Y. Display tray. Des. 62,212; Apr. 10.
Schmelzer, Anton C., Springfield, assignor, by mesne assignments, to Century Machinery Corporation, Holyoke, Mass. Washing machine. 1,451,180; Apr. 10.
Schneider, Isidor, New York, N. Y. Portable container handle. 1,451,408; Apr. 10.
Schoenleber, John G. (See Bell, T. H., and Schoenleber.)
Schrader's, A., Son, Inc. (See Faries, Robert, assignor.)
Schrader's, A., Son, Incorporated. (See Hammond, William P., assignor.)
Schrader's, A., Son, Inc. (See Schweinert, M. C., and Kraft, assignors.)
Schroeder, Ernst H., and C. M. Miller, Alameda, Calif. Tube bracket. 1,451,119; Apr. 10.
Schulman, Louis. (See Hoffman, Clarence O., assignor.)
Schumacher, Charles H. (See Moore, H. W., and Schumacher.)

Schuster, Thomas, Phoenix, Ariz. Water gate. 1,450,989; Apr. 10.
Schuttig, Charles L., Ridgefield Park, N. J. Treating cotton fabric and product obtained thereby. 1,451,306; Apr. 10.
Schwartz, Walter M., and E. B. Ayres, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. 1,451,589; Apr. 10.
Schweder, Oscar F., Billings, Mont. Rake. 1,451,590; Apr. 10.
Schweinert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, Brooklyn, N. Y., assignors to A. Schrader's Son, Inc., New York, N. Y. Pressure gauge. 1,451,307; Apr. 10.
Scott, La Forrest D., Los Angeles, Calif. Bed construction. 1,451,181; Apr. 10.
Scottish Dyes Limited. (See Pope, William J., assignor.)
Scovill Manufacturing Company. (See Hyde, Burdon P., assignor.)
Scovill Manufacturing Company. (See Kendall, William G., assignor.)
Searle, Robert M., Rochester, N. Y. Reading appliance. 1,451,182; Apr. 10.
Sears, Mary A., Los Angeles, Calif. Carpet-rag looper. 1,451,409; Apr. 10.
Seiger M., & Son. (See Seiger, Morres, assignor.)
Seiger, Morres, assignor to M. Seiger & Son, New York, N. Y. Watchcase or similar article of manufacture. Des. 62,195; Apr. 10.
Seiger, Morres, assignor to M. Seiger & Son, New York, N. Y. Watchcase or similar article of manufacture. Des. 62,196; Apr. 10.
Seiber, Charles F., Chicago, Ill. Wedding ring. Des. 62,197; Apr. 10.
Sellers, James E. (See McRuer, D., and Sellers.)
Seybold, Chancy. (See O'Donnell, W. F., and Seybold.)
Seybold, Charles, Dayton, Ohio. Paper-cutting machine. 1,451,120; Apr. 10.
Seydel, Adolf, Brooklyn, N. Y. Aerial vehicle. 1,451,346; Apr. 10.
Shader, Edmund G., Brockton, Mass. Automatic boiler control. 1,451,274; Apr. 10.
Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Conveying and distributing apparatus. 1,451,308; Apr. 10.
Shaffer, Ellis B., et al. (See Hockman, Russel, assignor.)
Shaffer, Ernest J., Tulsa, Okla. Sucker-rod slip socket. 1,451,275; Apr. 10.
Shatzke, Reason P., Denver, Colo. Grid plate for electric-current storage batteries. 1,451,058; Apr. 10.
Shaw, George S. (See Marshall, M. J., and Shaw.)
Shawinigan Laboratories, Limited. (See Marshall, M. J., and Shaw, assignors.)
Shawinigan Laboratories, Limited. (See Matheson, Howard W., assignor.)
Sherow, Lindolph, M., Ossining, N. Y. Composition of matter for silver-plating metals. 1,450,926; Apr. 10.
Shipley, Caleb W. (See Steiner, H. W., Shipley, and Morrison.)
Shorey, Edmund C., Washington, D. C. Making 2-naphthol 3-carboxylic acid. 1,450,990; Apr. 10.
Short, Bladen M., Detroit, Mich., assignor to C. Girl, Kalamazoo, Mich. Automobile bumper. 1,451,477; Apr. 10.
Short, Hugh O., Rochester, England. Wing and like member constructed of metal for aeroplane flying machines and other aircraft. 1,451,059; Apr. 10.
Shoup, Samuel R., Weehawken, N. J. Sheathing board. 1,450,962; Apr. 10.
Shrock, John W., Akron, Ohio. Traction attachment for wheels. 1,451,183; Apr. 10.
Shur-On Optical Company. (See McDonell, William E., assignor.)
Sibiski, John C., Baltimore, Md. Adjustable socket wrench. 1,451,591; Apr. 10.
Sides, Charles E., Lexington, N. C. Gasoline dispenser. 1,451,592; Apr. 10.
Signal Gesellschaft m. b. H. (See Hahnemann, Walter, assignor.)
Simon, Emil J. (See Leah, Lawrence J., assignor.)
Simpson, Edith M., and J. H. Buckles, Nighthawk, Wash. Tire-repair device. 1,451,121; Apr. 10.
Skaar, Ole, Akron, Ohio. Box opener. 1,451,593; Apr. 10.
Skayef Ball Bearing Company, The. (See Benson, Carl N., assignor.)
Slater, Robert, Paterson, N. J. Covering for railway ties. 1,451,309; Apr. 10.
Sloan-Crockett Co. (See Crockett, Jesse G., assignor.)
Small, Hervey W., Small, Idaho. Wrench. 1,451,184; Apr. 10.
Smith, Aaron J., and F. T. Frederick, Chicago, Ill., said Smith assignor to said Frederick. Safety-pin. 1,451,478; Apr. 10.
Smith, Adam L., and T. F. Russell, Youngstown, Ohio. Doorstrip. 1,451,310; Apr. 10.
Smith, Alfred H., Chappaqua, N. Y. Compartment freight car. 1,451,632; Apr. 10.
Smith, Alfred H., Chappaqua, N. Y. Freight car. 1,451,633; Apr. 10.
Smith, Clarence E., assignor to Mills Belt Company, Worcester, Mass. Military equipment. 1,451,030; Apr. 10.
Smith, Guy W., Paonia, Colo. Ingrown-toenail appliance. 1,451,311; Apr. 10.
Smith, Hazor J., Chicago, Ill., assignor of one-fourth to W. Reid and one-half to A. H. Chapin, Springfield, Mass. Ice-block freezer. 1,451,376; Apr. 10.
Smith, Horace L., and H. L. Smith, jr., Petersburg, Va. Fertilizer and lime distributor. 1,451,312; Apr. 10.
Smith, Horace, L., jr. (See Smith, Horace L. and H. L., jr.)
Smith, Otto, Honolulu, Hawaii, assignor to California Packing Corporation, San Francisco, Calif. Can-feeding device. 1,451,450; Apr. 10.
Smith, Rosell, Lebanon, Ind. Chain sand dredge. 1,451,479; Apr. 10.
Smith, Walter L., New York, N. Y. Rain shield. 1,451,276; Apr. 10.
Smith, William H., Bridgeport, Conn. Spring wheel. 1,451,517; Apr. 10.
Smithson, Arthur. (See Bogie, G. M., and Smithson.)
Smookler, Harry, Los Angeles, Calif. Kitchen tool. 1,451,594; Apr. 10.
Societe Anonyme d'Horlogerie et Bijouterie de Geneve. (See Varaud, André, assignor.)
Soss, Charles J., assignor of one-third to H. Soss and one-third to S. Soss, New York, N. Y. Antirattling device. 1,450,927; Apr. 10.
Soss, Henry, et al. (See Soss, Charles J., assignor.)
Soss, Samuel, et al. (See Soss, Charles J., assignor.)
Speck, Clifford P., Oakland, Calif. Confection-making apparatus. 1,451,031; Apr. 10.
Sperry, Samuel E., Woodhaven, assignor to Intertype Corporation, New York, N. Y. Typographical machine. 1,451,595; Apr. 10.
Stafford, Lewis F., assignor to Stafford Spring Guard Co., Chicago, Ill. Automobile bumper. 1,450,928; Apr. 10.
Stafford Spring Guard Co. (See Stafford, Lewis F., assignor.)
Staggers, William F., Mannington, W. Va. Tongs for lifting batteries. 1,451,185; Apr. 10.
Stahl, Charles E., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Electric-lamp socket. 1,451,122; Apr. 10.
Staley, Edwin H., Burt, and C. I. Mansmith, Algona, Iowa. Railway-crossing signal. 1,451,186; Apr. 10.
Stanfield, Earl E., Helena, Mont. Hair-dressing-mirror device. 1,451,236; Apr. 10.
Ste. Genevieve Wash Machine Corporation. (See Kintzele, Julius H., assignor.)
Stecher, Charles, Chicago, Ill. Soldering machine. 1,451,032; Apr. 10.
Stecher, Hans, Brooklyn, N. Y. Pencil-illuminating device. 1,450,991; Apr. 10.
Steese, Jay C., and C. A. Hoff, assignors to The Akron Lamp Company, Akron, Ohio. 1,451,123; Apr. 10.
Stehl, Conrad, Oakland, Calif. Pencil. Des. 62,198; Apr. 10.
Stein, Louis, Chicago, Ill. Temporary binder. 1,451,377; Apr. 10.
Steiner, Hubbard W., C. W. Shipley, and J. Morrison, assignors to The Trailmobile Company, Cincinnati, Ohio. Army field kitchen. 1,451,087; Apr. 10.
Stevens, George L., Long Beach, Calif. Circuit closer for soft-tire alarms. 1,451,596; Apr. 10.
Stevens, Truman E., Omaha, assignor to Potash Reduction Company, Holland, Nebr. Crystallizer. 1,450,992; Apr. 10.
Stevenson, Tilden B., Caroleen, N. C. Stop motion for spinning frames. 1,451,634; Apr. 10.
Stewart, Charles M., Denver, Colo. Safety-first reminder. 1,451,597; Apr. 10.
Stewart Manufacturing Corporation. (See Nelson, Lawrence C., assignor.)
Stewart-Warner Speedometer Corporation. (See Grant, Hugo B., assignor.)
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,277; Apr. 10.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,278; Apr. 10.
Stocke, Jacob, jr., assignor to Progress Press Brick and Machine Company, St. Louis, Mo. Brick-surfacing machine. 1,451,187; Apr. 10.
Stolze, William O., Newport, R. I. Automatic device for fishing through ice. 1,451,124; Apr. 10.
Strietelmeier, John E., Cincinnati, Ohio. Ticket holder. 1,451,279; Apr. 10.
Stroud, William. (See Barr, A., and Stroud.)
Study, William A., Richmond, Ind. Milling machine. 1,451,188; Apr. 10.
Sturgeon, Harold M. (See Gill, David R., assignor.)
Stütting, Heinrich, Witten-on-the-Ruhr, Germany. Rolling mill. 1,451,060; Apr. 10.
Suekoff, Samuel, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Calling device. 1,451,480; Apr. 10.
Summers, Bertrand S., Port Huron, Mich. Production of paper pulp and the like. 1,451,125; Apr. 10.
Sundh, August, Hastings-upon-Hudson, N. Y., and W. Westerman, Detroit, Mich. Indicator. 1,451,281; Apr. 10.
Sundh, August, Hastings-upon-Hudson, N. Y., and W. Westerman, Detroit, Mich. Mill. 1,451,280; Apr. 10.
Sundstrand Engineering Company. (See Sundstrand, Gustaf D., assignor.)

Sundstrand, Gustaf D., assignor to Sundstrand Engineering Company, Rockford, Ill. Heater. 1,451,126; Apr. 10.
Susquehanna Silk Mills. (See Korten, Ernest, assignor.)
Sutherland, Enos E., Los Angeles, Calif. Collapsible crate. 1,451,598; Apr. 10.
Svenson, John W. (See Graf, F., and Svenson.)
Sweeney, Daniel, assignor of one-half to H. B. Kincaid, Clarksburg, W. Va. Traffic signal. 1,451,227; Apr. 10.
Sweet, Frederick D., assignor to Instant Hot Primer Company, Cleveland, Ohio. Engine-priming device. 1,450,929; Apr. 10.
Szalai, Charles, Easton, Pa. Stove-lid lifter. 1,451,238; Apr. 10.
Szastalo, Stanley, New York, N. Y. Matchbox. 1,450,963; Apr. 10.
Taffee, Leo H. (See Johnson, A. E., and Taffee.)
Tayor, L. J. (See Pulliam, Herbert A., assignor.)
Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
Teague, Edward C., Kansas City, Mo. Brake shoe. 1,451,599; Apr. 10.
Technicolor Motion Picture Corporation. (See Comstock, D. F., and Ball, assignors.)
Terrell, Edgar A., Charlotte, N. C. Bobbin cleaner. 1,451,239; Apr. 10.
Thayer, Henry E., Portland, Oreg. Vehicle signal. 1,450,993; Apr. 10.
Thiele, Eltel W., Hoxter-on-the-Weser, Germany. Molding press. 1,451,378; Apr. 10.
Thiele, Rudolf, Hoxter-on-the-Weser, Germany. Continuous furnace for burning cement and the like. 1,451,379; Apr. 10.
Thomas & Betts Co., The. (See Church, L. H., and Thomas, assignors.)
Thomas, George C., jr. (See Church, L. H., and Thomas.)
Thomas, Joseph, Aberdeen, Wash. Last for shoes and sandals. 1,451,635; Apr. 10.
Thompson, Fuller W. (See Cartter, W. G., and Thompson.)
Thompson, Robert B. (See Mead, R. P., and Thompson.)
Thon, Louis J., Marshfield, Wis. Magazine phonograph. 1,451,282; Apr. 10.
Thornton, Frank, jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric percolator. 1,451,556; Apr. 10.
Thornton, Daniel N., Waitsburg, Wash. Truck and trailer carrier. 1,451,127; Apr. 10.
Thorpe, William H., Mount Vernon, N. Y. Storage battery. 1,451,347; Apr. 10.
Thorpe, William H., Mount Vernon, N. Y. Storage battery. 1,451,348; Apr. 10.
Thulander, Konstantine, assignor to L-T-L Company, Rockford, Ill. Carving tool. 1,451,128; Apr. 10.
Thum, Rudolf, Baldwin, assignor to The Weva Company Incorporated, New York, N. Y. Toothpick. 1,451,380; Apr. 10.
Titanium Alloy Manufacturing Company, The. (See Barton, L. E., and Kinzie, assignors.)
Todd, Samuel H., Detroit, Mich. Compressor. 1,451,033; Apr. 10.
Tokheim Oil Tank and Pump Company. (See Muxden, Matthew B., assignor.)
Tolson, Robert L., assignor to J. W. Farley, trustee, Memphis, Tenn. Brace for tractors. 1,451,088; Apr. 10.
Toth, Frank, and K. Gombos, Phoenixville, Pa. Clothesline. 1,451,557; Apr. 10.
Townsend, William S., and F. E. Douglass, Rochester, Pa. Visible display attachment for measuring pumps. 1,450,994; Apr. 10.
Towne, George S., San Francisco, Calif. Power-transmission belt. 1,451,349; Apr. 10.
Traitel Marble Company, The. (See Calkins, Seward H., assignor.)
Trailmobile Company, The. (See Steiner, H. W., Shipley, and Morrison, assignors.)
Trinkel, Andrew E., Jeffersonville, Ind. Wire stretcher. 1,451,410; Apr. 10.
Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Feed mechanism for machine tools. 1,451,061; Apr. 10.
Tulley, William M., Corpus Christi, Tex. Liquid gauge. 1,451,240; Apr. 10.
Tunnell, Harry E., New York, N. Y. Assembling machine. 1,451,381; Apr. 10.
Turenne, Wilfred J., Danvers, Mass. Flatiron. 1,450,995; Apr. 10.
Turner, Albert. (See Norton, C. H., and Turner.)
Turner, George W., Cleveland, Ohio. Incandescent electric lamp. 1,450,964; Apr. 10.
Twesme, Albert T. (See Hurley, Roy F., assignor.)
Ulmer, Philip T. (See Neale, Charles C., assignor.)
Ullrich, Richard, Wels, Austria. Electric heater. 1,451,636; Apr. 10.
Underwood Typewriter Company. (See Doody, John E., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Unger, Benjamin V., New Haven, Conn. Tool for tire rims. 1,450,965; Apr. 10.
Unger, William, Wooster, Ohio. Constructing brushes. 1,451,350; Apr. 10.
Union Special Machine Company. (See Heap, Jesse J., assignor.)
United Metal Spinning Co. (See Macke, Karl, assignor.)
United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
U. S. Light & Heat Corporation. (See Engel, Frank, assignor.)
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Dirigible and the like. 1,451,667; Apr. 10.
Van Deusen, Henry M., Westfield, Mass. Mop holder. 1,451,600; Apr. 10.
Van Doren, Chester J., Oak Park, assignor of one-half to H. T. Dorrington, Chicago, Ill. Apparatus for bottling liquids. 1,451,351; Apr. 10.
Vanderpool, Albion A., Newark, N. J. Guide for T squares. 1,451,189; Apr. 10.
Van Dyke, John W., assignor to The Atlantic Refining Company, Philadelphia, Pa. Method of and apparatus for oil distillation. 1,451,129; Apr. 10.
Van Orstrand, Charles E., Washington, D. C. Apparatus for measuring depths of wells. 1,451,130; Apr. 10.
Van Santvoort, Constant, Waukegan, Ill. Gas heater. 1,451,241; Apr. 10.
Vaughn, Samuel C., Charlotte, N. C. Journal-box jack. 1,451,601; Apr. 10.
Varaud, André, assignor to Societe Anonyme, d'Horologerie et Bijouterie de Geneve, Geneva, Switzerland. Time indicator. 1,450,996; Apr. 10.
Vescuso, Frank, Providence, R. I. Receptacle for holding milk bottles. 1,450,997; Apr. 10.
Viberg, Ernest R., Montreal, Quebec, Canada. Nonfreezing waste outlet. 1,451,242; Apr. 10.
Viberg, Ernest R., Montreal, Quebec, Canada. Truck construction. 1,451,243; Apr. 10.
Vincent, Elbert S., assignor to The Deming Company, Salem, Ohio. Pressure regulator. 1,451,481; Apr. 10.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,451,034; Apr. 10.
Vogel, Eugene W., Oak Park, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Highway-crossing signal. 1,450,998; Apr. 10.
Voorhies, Frederick E., Tulsa, Okla. Gas condenser. 1,451,190; Apr. 10.
Voracek, Frank B., Portland, Oreg. Airplane. 1,451,352; Apr. 10.
Voreaux, Paul, and R. Babel, Paris, France. Rotary apparatus operating as pump or motor. 1,451,284; Apr. 10.
Wade, Edward J., St. John's Wood, London, and G. W. Jacobs, Furley, England. Variable-speed gearing for motor road and other vehicles. 1,450,999; Apr. 10.
Wade, Jem R., assignor of one-half to The New England Electric Company, Denver, Colo. Automatically-operating fabric clamping and gripping buckle. 1,451,191; Apr. 10.
Wagner, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electropercussive welding system. 1,451,558; Apr. 10.
Wagner Electric Corporation. (See Fynn, Valère A., assignor.)
Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Section insulator. 1,451,559; Apr. 10.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,482; Apr. 10.
Waldman, Herman C., St. Louis, Mo. Fire door. 1,451,353; Apr. 10.
Walker, Philip J. (See Walker, Thomas S. and P. J.)
Walker, Thomas S. and P. J., Birmingham, England. Ship's log. 1,451,602; Apr. 10.
Wallace, Harry, Newark, N. J. Wheel hub and axle construction. 1,451,244; Apr. 10.
Waller, Robert H., assignor to Quicksafe Manufacturing Company, Nashville, Tenn. Can opener. 1,451,192; Apr. 10.
Walter, John E., Waukegan, Ill. Direction signal for vehicles. 1,450,030; Apr. 10.
Wante, Vincent, Woonsocket, R. I. Stop motion. 1,450,931; Apr. 10.
Ward, De Witt C., Rochester, N. Y. Foldable nursery table. 1,451,285; Apr. 10.
Weatherby, George W., et al. (See Myers, Wilson R., assignor.)
Weatherwax, James L., Wilkinsburg, Pa., assignor to Westinghouse Lamp Company. Thermocell. 1,451,283; Apr. 10.
Weaver Company. (See Low, Frank S., assignor.)
Weaver, Floyd C., Washington, D. C. Grinding and lapping machine. 1,451,080; Apr. 10.
Weber, Henry, Chicago, Ill. Adjustable reel. 1,451,131; Apr. 10.
Weber, Henry C. P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Still. 1,451,603; Apr. 10.
Weber, Robert, Dresden, Germany. Shutting or fastening contrivance. 1,451,518; Apr. 10.
Weiss, Roger. (See Ericson, E., and Weiss.)
Welker, Henry C., Minneapolis, Minn., assignor to Deere & Company, Moline, Ill. Plowbrace. 1,451,560; Apr. 10.

Welser, Brinton. (See Montague, W. L., and Welser.)
Welser, George B., jr. (See Montague, W. L., and Welser.)
Wendling, Alexander, Detroit, Mich. Cycle handle. 1,451,411; Apr. 10.
Werner, Paul W., Niota, Ill. Pencil. 1,451,193; Apr. 10.
Wescott, William B., Wellesley, assignor to Kalmus Comstock & Wescott Incorporated, Boston, Mass. Apparatus for supporting cinematographic machines or the like. 1,451,382; Apr. 10.
Wesley, John W., Chicago, Ill. Automatic weighing mechanism. 1,450,932; Apr. 10.
Westergaard, Carl J., Minneapolis, Minn. Milk and cream pasteurizer. 1,451,132; Apr. 10.
Westerman, William. (See Sundh, A., and Westerman.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brackett, Quincy A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Houston, Harold A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Loudon, Warren P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wagner, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric Products Company. (See Kreisheld, Henry, assignor.)
Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
Westinghouse Lamp Company. (See Weatherwax, James L., assignor.)
Weston, Alonzo H., Yonkers, N. Y., assignor to American Chain Company, Inc. Guard rail. 1,451,245; Apr. 10.
Weston, William S., Dallas, Tex. Anticreeper for railway rails. 1,451,637; Apr. 10.
Weston, William S., Dallas, Tex. Anticreeper for railway rails. 1,451,638; Apr. 10.
Wetzel, Emma A., Jamaica, N. Y. Sectional stove. 1,451,246; Apr. 10.
Weva Company Incorporated, The. (See Thum, Rudolf, assignor.)
Weymer, Benjamin F., Cedar Rapids, Iowa. Gate. 1,451,247; Apr. 10.
Wheeler, Harvey L., Fremont, Ohio. Washing machine. 1,451,604; Apr. 10.
White, Charles C., Ocean Springs, assignor of one-third to L. Braun, Biloxi, Miss. Clamp for roofs. 1,451,639; Apr. 10.
White, Charles H., assignor to Deere & Company, Moline, Ill. Marker device for planters. 1,451,669; Apr. 10.
White, Joseph A., Berkeley, Calif. Concrete structure. 1,451,000; Apr. 10.
Whitlock, E. D., et al. (See Whitlock, Ralph G., assignor.)
Whitlock, M. H., et al. (See Whitlock, Ralph G., assignor.)
Whitlock, Ralph G., Los Angeles, assignor to E. D. Whitlock and M. H. Whitlock, Los Angeles, Calif. Loose-leaf book. 1,451,451; Apr. 10.
Whyte, John, Chicago, Ill. Solenoid-controlled fuel injection and ignition valve. 1,451,384; Apr. 10.
Wickert, Elmer H., St. Paul, Minn. Pneumatic tire. 1,451,640; Apr. 10.
Williams, Hannah T., Seattle, Wash. Tiller lock. 1,451,452; Apr. 10.
Williams, William F., Chicago, Ill. Corrugated-plate wheel. 1,451,354; Apr. 10.
Will & Baumer Candle Co. (See Flannery, Martin A., assignor.)
Willis, Clifford, Salt Lick, Ky. Railway switch. 1,451,435; Apr. 10.
Wilcox, George L., Escalon, Calif. Earth scraper. 1,451,062; Apr. 10.
Wilks, Goeffrey L., Surbiton, London, England. Leather-finishing machine. 1,450,933; Apr. 10.
Wilmot Engineering Company. (See Wilmot, George W., assignor.)
Wilmot Engineering Company. (See Wilmot, G. W., and Blatch, assignors.)
Wilmot, George W., and F. H. Blatch, assignors to Wilmot Engineering Company, Hazleton, Pa. Coal jig. 1,451,287; Apr. 10.
Wilmot, George W., assignor to Wilmot Engineering Company, Hazleton, Pa. Drive chain. 1,451,286; Apr. 10.
Wilson, Clarence C., Bridgeport, Conn. Box for flat metal tableware. 1,451,383; Apr. 10.
Wilson, George H., Coleman, Alberta, Canada. Hog pincers. 1,451,133; Apr. 10.
Wilson, Harry H., et al. (See Hockman, Russel, assignor.)
Wilson, Henry W., Duluth, Minn. Rolling-mill coupling and spindle. 1,451,519; Apr. 10.
Wilson, Jesse E., Oxford Junction, Iowa. Air confining and releasing valve. 1,450,934; Apr. 10.
Wilson, John J., Columbia, Tenn. Cotton harvester. 1,451,090; Apr. 10.
Wine, William E., Toledo, Ohio. Car door. 1,451,001; Apr. 10.
Wine, William E., Toledo, Ohio. Car door. 1,451,002; Apr. 10.
Winkler, Henry O., Los Angeles, Calif., assignor to Koehring Company, Milwaukee, Wis. Batch mixer and meter. 1,451,483; Apr. 10.
Winter, John E., Lansing, assignor to Kelsey Wheel Company, Detroit, Mich. Wheel hub. 1,451,248; Apr. 10.
Wisniewski, Vincent, Berlin, Germany. Advertising signboard with movable reflecting and translucent inscriptions. 1,451,520; Apr. 10.
Wisroth, Ernst, assignor of one-half to R. D. Raphael, Los Angeles, Calif. Ice-cream-vending cabinet. 1,451,134; Apr. 10.
Witte, Gertrud, Berne, Switzerland. Hand loom with device for reading weaving drawings. 1,451,641; Apr. 10.
Woll, John M., Kittanning, Pa. Automobile hood. 1,451,642; Apr. 10.
Wood, Franz J., Des Moines, Iowa. Molding machine. 1,451,249; Apr. 10.
Wood, Herbert O., Saltaire, England. Wheel fork. 1,451,521; Apr. 10.
Wood, William H., South Euclid, Ohio. Storage battery. 1,451,003; Apr. 10.
Woodward, Irving C., Syracuse, N. Y. Screw thread. 1,451,484; Apr. 10.
Woody, Regina J., Chestnut Hill, Mass. Diaper, catamenial bandage, and the like. 1,451,643; Apr. 10.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,451,035; Apr. 10.
Wootton, William L., Brooklyn, N. Y. Composition for fireproofing and other purposes and preparing same. 1,451,485; Apr. 10.
Wren, Hugh C., Louisville, Ky. Tie form. 1,451,355; Apr. 10.
Wright, Elisabeth H. (See Wright, Albert W. and E. H.)
Wright, Albert W. and E. H., San Francisco, Calif. Food product and production. 1,451,135; Apr. 10.
Yemniker, Rudolph M., assignor to The Langenau Manufacturing Company, Cleveland, Ohio. Fastening device. 1,451,356; Apr. 10.
York, William X., Clinton, Ind. Adjustable window shade and curtain support. 1,451,453; Apr. 10.
Youkin, Galvin S. (See Franklin, S. B., and Youkin.)
Youngson, James, assignor of one-half to M. D. Gantt, Winston-Salem, N. C. Boat propulsion means. 1,451,412; Apr. 10.
Zachary, Charles E., Atlanta, Ga. Air-brake test valve. 1,451,644; Apr. 10.
Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abdominal supporter. M. A. Fontaine. 1,450,953; Apr. 10.
Absorber, Rebound. C. H. Lango. 1,451,227; Apr. 10.
Acid esters of trihalogentertiary butyl-alcohol, Nitrobenzoic. T. B. Aldrich. 1,451,357; Apr. 10.
Acid, Making 2-naphthol 3-carboxylic. E. C. Shorey. 1,450,990; Apr. 10.
Acids, Producing halogen. F. S. Low. 1,451,399; Apr. 10.
Adjustable reel. H. Weber. 1,451,131; Apr. 10.
Aerial vehicle. A. Seydel. 1,451,346; Apr. 10.
Aeroplane. G. Bess. 1,451,415; Apr. 10.
Aeroplane flying machines and other aircraft, Wing and like member constructed of metal for. H. O. Short. 1,451,059; Apr. 10.
Aeroplane gun mounting. J. P. Ball. 1,451,197; Apr. 10.
Aeroplane race game. A. E. Jones. 1,451,511; Apr. 10.
Aeroplanes, dirigibles, balloons, and the like, Stopping and landing mechanism for. J. H. Cruickshank. 1,451,493; Apr. 10.
Aeroplanes, Landing gear for. E. W. Rounds. 1,451,117; Apr. 10.
Agricultural machine. A. T. Brown. 1,450,140; Apr. 10.
Air heater. F. Pokorny, jr. 1,451,471; Apr. 10.
Airplane. F. B. Voracek. 1,451,352; Apr. 10.
Airship, Dirigible. H. A. Goetz. 1,451,503; Apr. 10.
Alarm: *See*—
  Burglar alarm. Fire alarm.
Album. J. Rodgers. 1,451,474; Apr. 10.
Aldehyde ammonia, Manufacture of. H. W. Matheson. 1,450,983; Apr. 10.
Aldehydes, Making condensation products of aliphatic. H. W. Matheson. 1,450,984; Apr. 10.
Alpha-naphthylamine, Production of. S. P. Miller. 1,451,666; Apr. 10.
Amalgamator. W. C. McLaughlin. 1,451,099; Apr. 10.
Anchor. N. D. Powell. 1,451,109; Apr. 10.
Anchor. N. D. Powell. 1,451,370; Apr. 10.
Animal trap. R. G. Howard. 1,451,223; Apr. 10.
Antirattling device. C. J. Sosa. 1,450,927; Apr. 10.
Apple-preparing machine. E. E. Gay. 1,451,571; Apr. 10.
Apron. G. F. Greene. 1,451,095; Apr. 10.
Arm support. C. W. Allebrand and C. G. Guyatt. 1,451,561; Apr. 10.
Articles, Producing distinctive. B. P. Hyde. 1,451,041; Apr. 10.
Ash tray, match holder, and cigar cutter, Combined. J. Gossner. Des. 62,201; Apr. 10.
Assembling machine. H. E. Tunnell. 1,451,381; Apr. 10.
Automobile bumper. B. M. Short. 1,451,477; Apr. 10.
Automobile bumper. L. F. Stafford. 1,450,928; Apr. 10.
Automobile curtain. F. J. Drekmeier. 1,451,255; Apr. 10.
Automobile dash attachment. E. R. Bittler. 1,451,646; Apr. 10.
Automobile direction signal. H. K. Gilbert. 1,451,213; Apr. 10.
Automobile doors, Curtain-supporting means for. L. H. Feder. 1,451,147; Apr. 10.
Automobile floor-board clamp. J. W. Parks. 1,451,404; Apr. 10.
Automobile hood. J. M. Woll. 1,451,642; Apr. 10.
Automobile lock. G. W. Daniels. 1,450,943; Apr. 10.
Automobile locking device. J. H. Ford. 1,451,499; Apr. 10.
Automobile perch. G. C. Roedl. 1,450,988; Apr. 10.
Automobile radiator system. J. F. Kupec. 1,451,364; Apr. 10.
Automobile seat, Auxiliary. S. E. Gilley. 1,451,655; Apr. 10.
Automobile starting system. W. P. Loudon. 1,451,550; Apr. 10.
Automobile tool-box support. J. W. Brown. 1,451,202; Apr. 10.
Automobiles, Appliance for attaching bumpers adjustably to. W. G. Cox. 1,451,535; Apr. 10.
Automobiles, Convertible baby crib and seat for. L. B. Buchner. 1,451,532; Apr. 10.
Automobiles, Locking system for. R. E. Elmore. 1,451,209; Apr. 10.
Automobiles, Reserve oil tank and gauge for. A. O. Murdock. 1,451,232; Apr. 10.
Axle housing and making same. T. E. Murray and T. E. Murray, jr. 1,451,401; Apr. 10.
Azoxy, azo, hydrazo, and amino compounds, Manufacture of. O. W. Brown and C. O. Henke. 1,451,489; Apr. 10.
Awning construction. W. F. O'Donnell and C. Seybold. 1,451,083; Apr. 10.
Bag frame. R. L. Prahar. 1,451,028; Apr. 10.
Bag stiffening and closing device, Combined. F. Goerts. 1,451,504; Apr. 10.
Bank, Coin-controlled clock. J. B. Moore and G. D. Gallagher. 1,451,305; Apr. 10.
Barrel. C. O. Ewell. 1,451,068; Apr. 10.
Baskets, Cover cushion for fruit. R. P. Clark. 1,450,911; Apr. 10.
Batteries, Grid plate for electric-current storage. B. P. Shatzke. 1,451,058; Apr. 10.
Batteries, Process and means for removing corroded terminals from storage. G. E. Frohbieter. 1,451,500; Apr. 10.
Batteries, Tongs for lifting. W. F. Staggers. 1,451,185; Apr. 10.
Battery: *See*—
  Storage Battery.
Bearing. W. Holtorp. 1,451,222; Apr. 10.
Bearing, Adjustable. E. E. Johns. 1,451,224; Apr. 10.
Bearing mounting. C. N. Benson. 1,451,523; Apr. 10.
Bearing rings, Manufacturing antifriction. H. E. Brunner. 1,451,531; Apr. 10.
Bearing sleeve, Resilient. H. R. Lontz. 1,451,428; Apr. 10.
Bearing sleeves, Making resilient. H. R. Lontz. 1,451,429; Apr. 10.
Bearings, Crank shaft and connecting-rod. W. C. Bell. 1,451,608; Apr. 10.
Bearings, Device for detecting overheated. J. P. Leonard. 1,451,044; Apr. 10.
Bed bathing apparatus. L. E. Bernier. 1,451,437; Apr. 10.
Bed construction. L. D. Scott. 1,451,181; Apr. 10.
Belt for machinery driving. A. and M. A. Hendry. 1,451,373; Apr. 10.
Belt, Power-transmission. G. S. Towne. 1,451,349; Apr. 10.
Bicycle stand and carrier. G. F. Crysdale. 1,451,651; Apr. 10.
Binder, Loose-leaf. H. Rubin. 1,451,273; Apr. 10.
Binder, Temporary. L. Stein. 1,451,377; Apr. 10.
Binders, Flax-puller attachment for. J. A. Bartoss. 1,451,317; Apr. 10.
Birds, Instrument for removing the testicles of. V. D. Lespinasse. 1,451,398; Apr. 10.
Bloomers. I. Goodman. 1,451,421; Apr. 10.
Board: *See*—
  Game board. Sheathing board.
  Ironing board.
Boat-propelling means. C. J. Baer. 1,451,563; Apr. 10.
Boat propulsion means. J. Youngson. 1,451,412; Apr. 10.
Bobbin cleaner. E. A. Terrell. 1,451,239; Apr. 10.
Boiler control, Automatic. E. G. Shader. 1,451,274; Apr. 10.
Boilers, Cleaner for water-tube. P. G. Handoll. 1,450,957; Apr. 10.
Book, Loose-leaf. R. G. Whitlock. 1,451,451; Apr. 10.
Borax and boric acid, Manufacture of. A. Kelly. 1,450,975; Apr. 10.
Boring machine. A. W. Marquis. 1,451,585; Apr. 10.
Bottle attachment. W. W. Edmister. 1,451,564; Apr. 10.
Bottle holder. C. Cohen. 1,451,649; Apr. 10.
Bottles, Receptacle for holding milk. F. Vescuso. 1,450,997; Apr. 10.
Bouquet holder. A. Glassman. 1,450,955; Apr. 10.
Box: *See*—
  Lunch box. Outlet box.
  Match box. Size-reducible box.
Box opener. O. Skaar. 1,451,593; Apr. 10.
Brace: *See*—
  Tractor brace.
Bracket: *See*—
  Tube bracket.
Brake: *See*—
  Fluid-pressure brake. Vehicle brake.
Brake-band lining. A. L. Rennie. 1,450,925; Apr. 10.
Brake-clutch connector, Ford. J. C. Boyle. 1,451,488; Apr. 10.
Brake shoe. E. C. Teague. 1,451,599; Apr. 10.
Brake-shoe key. E. Emery. 1,451,332; Apr. 10.
Brick-surfacing machine. J. Stocke, jr. 1,451,187; Apr. 10.
Brush construction. G. Moe. 1,451,400; Apr. 10.
Brush holder. W. E. Keene. Des. 62,193; Apr. 10
Brush, Shoe-polish-applying E. B. Burrell. 1,451,322; Apr. 10.
Brushes, Constructing. W. Unger. 1,451,350; Apr. 10.

Buckle, Automatically-operating fabric clamping and gripping. J. R. Wade. 1,451,191; Apr. 10.
Buckle, Belt. J. Heberling. 1,451,160; Apr. 10.
Builder, Bunch. E. Korten. 1,451,073; Apr. 10.
Building construction. W. A. Benson. 1,451,198; Apr. 10.
Building construction. F. L. Decker. 1,451,144; Apr. 10.
Building construction. L. Kroonen. 1,451,340; Apr. 10.
Bumpers, Pivotal clamping device for. W. E. Dunston. 1,451,497; Apr. 10.
Burglar alarm. R. Barrett. 1,451,414; Apr. 10.
Burglar-alarm housing. E. M. Jones. Des. 62,205; Apr. 10.
Burner: *See*—
Gas burner. Oil burner.
Burner. A. R. Anthony. 1,451,063; Apr. 10.
Burner. C. H. Hoffstetter. 1,451,072; Apr. 10.
Burner. T. F. Kent. 1,451,546; Apr. 10.
Cabinet, Kitchen. A. Pedersen. 1,451,587; Apr. 10.
Cabinets, Lock for milk. L. O. Miller. 1,451,100; Apr. 10.
Calling device. S. Suekoff. 1,451,480; Apr. 10.
Can-feeding device. O. Smith. 1,451,450; Apr. 10.
Can opener. J. Bodnar. 1,451,320; Apr. 10.
Can opener. R. H. Waller. 1,451,192; Apr. 10.
Candle pointer. A. S. Hope. 1,451,164; Apr. 10.
Candy cutting and cooling machine, Honeycomb-. E. J. Momenee. 1,451,081; Apr. 10.
Cap, Adjustable. C. H. Mirus. 1,451,174; Apr. 10.
Car, Calcine. A. G. McGregor. 1,450,980; Apr. 10.
Car, Compartment freight. A. H. Smith. 1,451,632; Apr. 10.
Car door. W. E. Wine. 1,451,001–2; Apr. 10.
Car-door-control device. C. C. Farmer. 1,451,441; Apr. 10.
Car, Freight. A. H. Smith. 1,451,633; Apr. 10.
Cars, Pull mechanism for railway. C. V. Rote. 1,451,178; Apr. 10.
Cars, Wheel mounting for motor-propelled railway. A. F. Masury. 1,451,267; Apr. 10.
Carbonator and draft arm for soda water. C. A. Geddes. Re15,575; Apr. 10.
Carburetor, Combustion-chamber. A. P. Peiser. 1,451,629; Apr. 10.
Card indexes and the like, Tab of guide cards for. M. Goitre. 1,451,214; Apr. 10.
Carpet-rag looper. M. A. Sears. 1,451,409; Apr. 10.
Carriages, Runner attachment for wheeled. C. R. Ord. 1,450,024; Apr. 10.
Carrier: *See*—
Tire carrier.
Carrousel. P. and E. Adelson. 1,451,605; Apr. 10.
Carving tool. K. Thulander. 1,451,128; Apr. 10.
Case: *See*—
Display case. Vanity case.
Casing elevator. F. M. Blair. 1,451,199; Apr. 10.
Casket. F. H. Charlesworth. 1,451,009; Apr. 10.
Caster. L. M. Beebe. 1,451,250; Apr. 10.
Catalytic material, Producing. G. A. Richter. 1,451,113; Apr. 10.
Cellulose derivatives, Manufacturer of. H. Dreyfus. 1,451,330–1; Apr. 10.
Chain. P. McLaughlin. 1,450,981; Apr. 10.
Chain, Drive. G. W. Wilmot. 1,451,286; Apr. 10.
Chain-feed attachment, Automatic. P. W. Fleischer. 1,451,015; Apr. 10.
Chain, Sprocket. W. L. Montague and B. Welser. 1,451,624; Apr. 10.
Chain, Sprocket. W. L. Montague and G. B. Welser, jr. 1,451,625; Apr. 10.
Chloride, Making anhydrous magnesium. P. Cottringer and W. R. Collings. 1,450,912; Apr. 10.
Chuck, Magnetic. R. L. Morgan, W. S. Griffith, and E. Churchill, jr. 1,451,265; Apr. 10.
Cigar holder and ash receptacle. M. H. Bialick. 1,450,910; Apr. 10.
Cigarette holder. T. Rae. 1,451,235; Apr. 10.
Cinematographic film. D. F. Comstock and J. A. Ball. 1,451,325; Apr. 10.
Cinematographic machines or the like, Apparatus for supporting. W. B. Wescott. 1,451,382; Apr. 10.
Circuit breaker. B. G. Gerbig. 1,451,157; Apr. 10.
Clamp: *See*—
Automobile floor-board Clamp. Roof clamp.
Strainer-cloth clamp.
Door clamp.
Clamp. G. J. Dennis. 1,451,091; Apr. 10.
Clasp. L. R. Barnett. 1,451,316; Apr. 10.
Cleaner: *See*—
Bobbin cleaner.
Clothesline. F. Toth and K. Gombos. 1,451,557; Apr. 10.
Clutch, Self-acting friction. F. Graf and J. W. Svensson. 1,451,506; Apr. 10.
Coal jig. G. W. Wilmot and F. H. Blatch. 1,451,287; Apr. 10.
Collapsible tube. C. G. King. 1,451,461; Apr. 10.
Collar, Driving. J. H. Reedy. 1,451,111; Apr. 10.
Coloring matters, Production of. W. J. Pope. 1,451,270; Apr. 10.
Comb. H. W. Babcock. 1,451,562; Apr. 10.
Comb. H. T. Holland. 1,451,260; Apr. 10.
Combination lock. W. T. Benham. 1,451,636; Apr. 10.
Compressor. S. H. Todd. 1,451,033; Apr. 10.
Concrete blocks, Mechanism for molding. D. C. Newman. 1,451,049; Apr. 10.
Concrete structure. J. A. White. 1,451,000; Apr. 10.
Condenser, Surface. A. Ginabat. 1,451,334; Apr. 10.
Confection-making apparatus. C. P. Speck. 1,451,031; Apr. 10.
Contact terminal. H. Kreisheld. 1,451,548; Apr. 10.
Container. F. Goerts. 1,451,505; Apr. 10.
Container handle, Portable. I. Schneider. 1,451,408; Apr. 10.
Containers, Rack for stacked. J. L. Fate. 1,451,146; Apr. 10.
Control apparatus. R. E. Hellmund. 1,451,544; Apr. 10.
Control head. D. Breeding. 1,450,968; Apr. 10.
Conveyer. O. P. Fike. 1,450,952; Apr. 10.
Conveying and distributing apparatus. S. Shafer, jr. 1,451,308; Apr. 10.
Copying machines, Cutting device for. F. May. 1,451,445; Apr. 10.
Cord dispenser. C. C. Helman. 1,451,300; Apr. 10.
Corrugated-plate wheel. W. E. Williams. 1,451,354; Apr. 10.
Cotton fabric and product obtained thereby, Treating. C. L. Shuttig. 1,451,306; Apr. 10.
Counting disks, Casing for holding. F. A. Helfrecht. Des. 62,192; Apr. 10.
Coupling and spindle, Rolling-mill. H. W. Wilson. 1,451,519; Apr. 10.
Crank shafts, Adjustable holder for turning. W. L. Mantha. 1,451,078; Apr. 10.
Crate, Collapsible. C. L. Peterman. 1,451,449; Apr. 10.
Crate, Collapsible. E. E. Sutherland. 1,451,598; Apr. 10.
Crate, Folding. B. C. Rockwell. 1,451,373; Apr. 10.
Crushing and grinding, Machine for. G. H. Fraser. 1,451,154; Apr. 10.
Crushing and grinding machine. G. H. Fraser. 1,451,156; Apr. 10.
Crushing apparatus, Cane-. H. Hurter. 1,451,164; Apr. 10.
Crushing machine. G. H. Fraser. 1,451,149; Apr. 10.
Crushing or grinding machine. G. H. Fraser. 1,451,150–1; Apr. 10.
Crystallizer. T. E. Stevens. 1,450,992; Apr. 10.
Cultivator, Motor. T. Brown. 1,451,672; Apr. 10.
Currents, Receiving circuits for weak signal. J. R. Carson. 1,450,969; Apr. 10.
Curtain ring. J. A. Cund. 1,451,326; Apr. 10.
Curtain window frame, Carriage. L. C. Nelson. 1,451,026; Apr. 10.
Cuspidor, Sanitary. A. Rybicky. 1,451,554; Apr. 10.
Cutter and feeder, Band. J. B. Firestone. 1,451,442; Apr. 10.
Cycle handle. A. Wendling. 1,451,411; Apr. 10.
Dental radiography, Gravity angle meter for. L. E. Harris and T. A. Leach. 1,451,507; Apr. 10.
Denture. H. M. Carroll, sr. 1,451,533; Apr. 10.
Diaper, catamenial bandage, and the like. R. J. Woody. 1,451,643; Apr. 10.
Dirigible and the like. R. H. Upson. 1,451,667; Apr. 10.
Discharge mechanism. J. R. Gruetter. 1,451,216; Apr. 10.
Dispensing apparatus. M. B. Muxen. 1,451,552; Apr. 10.
Display case. L. M. Sawin. 1,451,055; Apr. 10.
Display device. W. L. Hopkins. 1,451,023; Apr. 10.
Display tray. M. J. Schloss. Des. 62,212; Apr. 10.
Doll. L. Boatright. Des. 62,189; Apr. 10.
Doll walker. R. W. Hendrix. 1,451,390; Apr. 10.
Door clamp. I. W. Cobb. 1,450,940; Apr. 10.
Doorstrip. A. L. Smith and T. F. Russell. 1,451,310; Apr. 10.
Draft attachment. B. Limoseth. 1,451,620; Apr. 10.
Drainpipe trap. C. H. Gottsch. 1,450,956; Apr. 10.
Drawer and locking means therefor, Sliding. J. Heotes. 1,450,974; Apr. 10.
Dredge, Chain sand. R. Smith. 1,451,479; Apr. 10.
Dredging machines, Delivery pipe for hydraulic. A. W. Robinson. 1,451,272; Apr. 10.
Dressing table. T. B. Draper. 1,451,207; Apr. 10.
Drier. E. T. Goldthorpe. 1,450,917; Apr. 10.
Drier. W. M. Schwartz and E. B. Ayres 1,451,589; Apr. 10.
Drills, Lug chuck for rock. C. C. Hansen. 1,451,363; Apr. 10.
Drum. W. Christian. 1,451,289; Apr. 10.
Duplicating machine. W. Chipperfield. 1,451,142; Apr. 10.
Dyeing, Production of shot effects, not to be stained in piece. R. Haynn. 1,451,299; Apr. 10.
Electric fixture. M. L. Haas. Des 62,204; Apr. 10.
Electric heater. M. D. Dominguez. 1,451,537; Apr. 10.
Electric heater. R. Ullrich. 1,451,636; Apr. 10.
Electric jack. H. W. Moore and C. H. Schumacher. 1,451,048; Apr. 10.
Electric knife switches, Contact for. W. J. Gibbons. 1,451,296; Apr. 10.
Electric machine, Dynamo-. P. H. H. Jantzen. 1,451,577; Apr. 10.
Electric precipitator. E. P. Dillon and A. A. Helmrod. 1,451,418; Apr. 10.
Electric switch. W. Broad. 1,451,008; Apr. 10.
Electric switch. F. P. Gates. 1,451,570; Apr. 10.
Electrical windings, Construction of. S. Rogers. 1,451,374; Apr. 10.
Electrode for electric-arc cutting or reducing. C. J. Holslag. 1,451,392; Apr. 10.
Electrolytic iron, Making. F. A. Eustis, C. R. Hayward, H. M. Schleicher, and D. Belcher. 1,451,333; Apr. 10.
Electromagnet. E. M. Bouton. 1,451,525; Apr. 10.

Elevating jack. J. G. Crockett. 1,451,661; Apr. 10.
Engine: *See*—
Internal-combustion engine. Steam engine.
Engine and electric generator plant, Air-cooled internal-combustion. A. T. and C. S. Brown. 1,451,201; Apr. 10.
Engine construction, Method of and apparatus for detecting faulty. T. J. Brooks. 1,451,386; Apr. 10.
Engine-priming device F. D. Sweet. 1,450,929; Apr. 10.
Engines, Air filter for. A. R. Dressler. 1,451,329; Apr. 10.
Engines, Electric starter for internal-combustion. O. Brisbois. 1,451,530; Apr. 10.
Engines, Fuel-feeding device for internal-combustion. A. G. Larson. 1,451,228; Apr. 10.
Engines, Fuel system for internal-combustion. A. Rosner. 1,451,631; Apr. 10.
Engines, Liquid-elevating device for motor-vehicle. H. B. Grant. 1,451,158; Apr. 10.
Engines, Priming device for internal-combustion. D. Roesch. 1,451,434; Apr. 10.
Fastening device. R. M. Yemniker. 1,451,356; Apr. 10.
Fastening elements, Attaching means for separable. B. Z. Hausner. 1,451,612; Apr. 10.
Feeding device, Web-. I. Lazaga. 1,451,579; Apr. 10.
Fertilizer and lime distributor. H. L. Smith and H. L. Smith, jr. 1,451,312; Apr. 10.
Filter screen, Wet-. L. C. Cruyt. 1,450,951; Apr. 10.
Fire boxes, Means for reducing the capacity of. L. C. Peters. 1,451,405; Apr. 10.
Fire door. H. C. Waldman. 1,451,353; Apr. 10.
Fire-nozzle support, Adjustable. J. B. Blaw. 1,451,006; Apr. 10.
Firearm for teaching or practicing the aiming thereof and for adapting the same for signalling. L. C. A. de B. Doucet. 1,451,294; Apr. 10.
Firearm, Magazine. A. Kottas. 1,451,339; Apr. 10.
Firearms, Safety device for portable. E. Larson. 1,450,976; Apr. 10.
Fireplace heater. J. S. Nichols. Re15,577; Apr. 10.
Fireproofing and other purposes and preparing same, Composition for. W. L. Wooton. 1,451,485; Apr. 10.
Fish screen. F. G. Hurst. 1,451,394; Apr. 10.
Fishhook holder. W. C. Gardner. 1,451,256; Apr. 10.
Fishing through ice, Automatic device for. W. O. Stolze. 1,451,124; Apr. 10.
Flash light. H. M. Koretzky. 1,451,618; Apr. 10.
Flatiron. W. J. Turenne. 1,450,995; Apr. 10.
Flax-pulling machine. G. Michot. 1,451,231; Apr. 10.
Floor waxer and polisher. A. S. Boyle. 1,451,200; Apr. 10.
Flower stand. A. Niemczewski. 1,451,515; Apr. 10.
Fluid clutch mechanism. W. Brother. 1,451,139; Apr. 10.
Fluid-pressure brake. C. C. Farmer. 1,451,440; Apr. 10.
Fly container, Artificial-. A. S. and S. R. Driver. 1,451,295; Apr. 10.
Fly hook and leader. P. F. Halferty. 1,451,656; Apr. 10.
Flying machine, Manually-propelled. J. Ardo. 1,451,385; Apr. 10.
Fly-paper holder. S. McCardle. 1,451,583; Apr. 10.
Flywheel and suction fan, Combined. R. W. Barton. 1,450,936; Apr. 10.
Food or other substances of a similar nature, Means for grinding or pulverizing. R. Head. 1,451,424; Apr. 10.
Food-preparing utensil. P. Mendez. 1,451,342; Apr. 10.
Food product and production. A. W. and E. H. Wright. 1,451,135; Apr. 10.
Forging press. D. R. Gill. 1,450,947; Apr. 10.
Fork: *See*—
Wheel fork.
Fork or similar article. J. Leech. Des. 62,206; Apr. 10.
Form tie and spacer, Adjustable. J. C. Buchenau. 1,451,457; Apr. 10.
Frame: *See*—
Bag frame. Curtain window frame.
Fruit, etc., Means for shipping. F. A. Higerd and G. Becker. 1,451,070; Apr. 10.
Fruit pitter. W. M. Cruzan. 1,451,254; Apr. 10.
Frying-pan-cover holder. F. Ingersoll. 1,451,545; Apr. 10.
Fuel injection and ignition valve, Solenoid-controlled. J. Whyte. 1,451,384; Apr. 10.
Furnace for burning cement and the like, Continuous. R. Thiele. 1,451,379; Apr. 10.
Game. G. A. Post. 1,451,108; Apr. 10.
Game board. C. A. Johannesen. 1,450,958; Apr. 10.
Garages, Folding door for. S. Latrace. 1,451,619; Apr. 10.
Gas burner. J. I. Robin. 1,451,116; Apr. 10.
Gas condenser. F. E. Voorhies. 1,451,190; Apr. 10.
Gas-distributing system. E. A. Mitchell. 1,451,303; Apr. 10.
Gas heater. C. Van Santvoort. 1,451,241; Apr. 10.
Gas producers, Regulator for. H. A. Dreffein. 1,451,011; Apr. 10.
Gas radiator. W. H. Cain. 1,451,609; Apr. 10.
Gasoline dispenser. C. E. Sides. 1,451,592; Apr. 10.
Gate: *See*—
Water gate.
Gate. B. F. Weymer. 1,451,247; Apr. 10.
Gauge: *See*—
Liquid gauge. Pressure gauge.
Gear-cutting machine. W. H. Kitto, jr., and S. B. Moiles. 1,451,097; Apr. 10.
Gearing, Reversible. F. Ljungstrom, I. Broberg, and E. O. Ericksson. 1,451,266; Apr. 10.
Glass rods having bends therein, Making solid. V. Durand, jr. 1,451,361; Apr. 10.
Gold-panning machine. C. E. Erickson and M. J. Mast. 1,451,567; Apr. 10.
Governor. D. L. A. Larsonneur. 1,451,365; Apr. 10.
Gradometer. F. T. Burns. 1,451,387; Apr. 10.
Grain-cutting machine. D. Guelbaum. 1,451,217; Apr. 10.
Grinding and lapping machine. F. C. Weaver. 1,451,089; Apr. 10.
Grinding body and producing same. G. R. Hanks. 1,451,335; Apr. 10.
Grinding machine. H. and R. Buckley. 1,451,647; Apr. 10.
Grinding machines, Work support for roll-. C. H. Norton and A. Turner. 1,451,467; Apr. 10.
Grinding or crushing machine. G. H. Fraser. 1,451,155; Apr. 10.
Gun, Grease. J. M. Mills. 1,451,446; Apr. 10.
Gun, Insect-powder. S. Bernstein. 1,451,138; Apr. 10.
Gun, Machine. E. Fowler. 1,451,443; Apr. 10.
Gun sight. J. R. Mapes. 1,451,584; Apr. 10.
Guns, Loading cartridge for grease. C. E. Roberts. 1,451,114; Apr. 10.
Guns, Ventilated hand protector for. F. L. Baily. 1,451,137; Apr. 10.
Hair clipper. C. Nannini. 1,451,175; Apr. 10.
Hair-dressing-mirror device. E. E. Stanfield. 1,451,286; Apr. 10.
Hairpin. J. C. Kucewicz. 1,451,397; Apr. 10.
Hand bag. M. Brill. Des. 62,199; Apr. 10.
Handle: *See*—
Container handle. Kitchen utensil handle.
Cycle handle.
Handsaw. G. Forton. 1,451,211; Apr. 10.
Hanger: *See*—
Trolley hanger.
Harvester, Cotton. J. J. Wilson. 1,451,090; Apr. 10.
Headlight dimmer. U. S. G. Brobst. 1,451,321; Apr. 10.
Headlight, Dirigible. T. O. Dills. 1,451,419; Apr. 10.
Headlight for automobiles. E. B. Helm. 1,451,161; Apr. 10.
Headlight, Vehicle. O. V. Berkley. 1,451,318; Apr. 10.
Headlights, Attachment for. E. P. Low. 1,451,582; Apr. 10.
Heater: *See*—
Air heater. Gas heater.
Electric heater. Water heater.
Fireplace heater.
Heater. G. D. Sundstrand. 1,451,126; Apr. 10.
Heel-blank separator and former. D. Parks. 1,451,469; Apr. 10.
Heel, Resilient shoe. E. L. De Vere. 1,451,494; Apr. 10.
Highway-crossing signal. E. W. Vogel. 1,450,998; Apr. 10.
Hog pincers. G. H. Wilson. 1,451,133; Apr. 10.
Hook fastener. T. M. Avery. 1,451,315; Apr. 10.
Hoop. E. Hauner. 1,451,258; Apr. 10.
Horseshoe. G. M. Bogie and A. Smithson. 1,451,007; Apr. 10.
Hosiery form. T. H. DeLacy. 1,450,913; Apr. 10.
Houses or rooms, Cooling system for. L. A. Goodwin. 1,451,215; Apr. 10.
Hub and axle construction, Wheel. H. Wallace. 1,451,244; Apr. 10.
Hub, Wheel. J. R. Winter. 1,451,248; Apr. 10.
Hydraulic classifier. R. B. Elder. 1,451,067; Apr. 10.
Hydrocarbon motor L. M. Woolson. 1,451,035; Apr. 10.
Hydrocarbons, Treatment of. H. Rostin. 1,451,052; Apr. 10.
Ice-block freezer. H. J. Smith. 1,451,376; Apr. 10.
Ice box for fish and other sea food. L. M. Bowlus. 1,451,416; Apr. 10.
Ice-cream-vending cabinet. E. Wisroth. 1,451,134; Apr. 10.
Imprinting machine. L. Hopkins. 1,450,949; Apr. 10.
Indicator: *See*—
Speed indicator. Time indicator.
Indicator. A. Sundh and W. Westerman. 1,451,281; Apr. 10.
Inflammability of materials, Reducing. A. Arent. 1,451,313; Apr. 10.
Inner tube. M. P. Mitchell. 1,451,304; Apr. 10.
Insulator, Section. N. A. Wahlberg. 1,451,559; Apr. 10.
Internal-combustion engine. H. D. Church. 1,451,648; Apr. 10.
Internal-combustion engine. H. Colnot. 1,451,417; Apr. 10.
Internal-combustion engine. W. A. Gile. 1,450,916; Apr. 10.
Internal-combustion engine. T. W. and W. D. Grannan. 1,451,389; Apr. 10.
Internal-combustion engine. C. E. Sargent. 1,451,407; Apr. 10.
Invalid lifter and carrier. S. S. Jenkins. 1,450,950; Apr. 10.
Iron: *See*—
Soldering iron.
Ironing board. R. A. Morrison and F. L. Oswald. 1,450,986; Apr. 10.
Ironing machines, Electric heating system for. F. F. Forshee. 1,451,539; Apr. 10.
Irrigation signal. W. R. Schindler. 1,451,056; Apr. 10.

Jack: *See*—
Electric jack. Journal-box jack.
Elevating jack.
Jar covers, Means for forming and securing gaskets to. W. J. Peelle. 1,451,470; Apr. 10.
Jay bar. J. A. L. Hefner. 1,451,657; Apr. 10.
Joint in fabricated form and making the same, Permanent. J. L. Anderson. 1,450,935; Apr. 10.
Journal-box jack. S. C. Vaughn. 1,451,601; Apr. 10.
Key: *See*—
Brake-shoe key.
Kitchen, Army field. H. W. Steiner, C. W. Shipley, and J. Morrison. 1,451,087; Apr. 10.
Kitchen tool. H. Smookler. 1,451,594; Apr. 10.
Kitchen utensil handle. E. H. Johnson. 1,451,338; Apr. 10.
Knife. L. B. Bates. 1,451,607; Apr. 10.
Knitted fabric and producing same, Openwork. R. Hinchliff. 1,451,391; Apr. 10.
Knitting machine, Open or lace work. A. Gagné. 1,450,946; Apr. 10.
Knotter. H. D. Colman. 1,450,941; Apr. 10.
Lamp. J. C. Steese and C. A. Hoff. 1,451,123; Apr. 10.
Lamp, Incandescent electric. G. W. Turner. 1,450,964; Apr. 10.
Lamp socket, Electric-. C. E. Stahl. 1,451,122; Apr. 10.
Lamp stand, Statuette. A. T. Guilbert. Des. 62,203; Apr. 10.
Lamp, Vapor arc. H. C. Rentschler. 1,451,271; Apr. 10.
Last for shoes and sandals. J. Thomas. 1,451,635; Apr. 10.
Lathes, Cutter-head drive for last. C. L. Long. 1,451,665; Apr. 10.
Leaf turner. D. Hoecke. 1,451,614; Apr. 10.
Leather-finishing machine. G. L. Wilks. 1,450,933; Apr. 10.
Lenses, Making bifocal. L. W. Bugbee. 1,451,490; Apr. 10.
License plate. D. McRuer and J. E. Sellers. 1,451,621; Apr. 10.
Lifter: *See*—
Pan lifter. Stove-lid lifter.
Lifting device. N. W. Kyle. 1,451,549; Apr. 10.
Light: *See*—
Flash light.
Light shield and reflecting device. S. B. Franklin and G. S. Younkin. 1,451,017; Apr. 10.
Lighting fixture and producing same. E. F. Oliver. 1,450,923; Apr. 10.
Lighting-fixture bowl. L. B. London. Des. 62,207; Apr. 10.
Lighting-fixture plate. K. Nacke. Des. 62,211; Apr. 10.
Lighting fixtures, Bracket back for. P. Mohrmann. Des. 62,210; Apr. 10.
Liquid gauge. W. M. Talley. 1,451,240; Apr. 10.
Liquid motor. M. T. Lindenberg. 1,451,580; Apr. 10.
Liquids, Apparatus for bottling. C. J. Van Doren. 1,451,351; Apr. 10.
Loading machine. R. P. Greenleaf. 1,451,020; Apr. 10.
Lock: *See*—
Automobile lock. Tiller lock.
Combination lock. Tire-carrier lock.
Switch lock.
Lock. W. H. Landing. 1,451,265; Apr. 10.
Lock. S. Leczycki. 1,451,464; Apr. 10.
Loom with device for reading weaving drawings, Hand. G. Witte. 1,451,641; Apr. 10.
Lubricating and cleaning system, Chassis. J. L. Fay. 1,451,388; Apr. 10.
Lunch box. H. Olshan. 1,451,468; Apr. 10.
Mail receptacle. N. Panagopolous. 1,451,343; Apr. 10.
Marble shooter. T. J. Mahoney. 1,451,230; Apr. 10.
Marking device. M. L. Garcin. 1,451,654; Apr. 10.
Match and cigarette case, Combined. F. K. Ricksecker. 1,451,433; Apr. 10.
Match box. S. Szastalo. 1,450,963; Apr. 10.
Material-positioning apparatus. W. R. Myers. 1,451,431; Apr. 10.
Matrix, Producing a. H. A. Herr. 1,451,162; Apr. 10.
Measuring apparatus. S. H. Kellogg. 1,451,512; Apr. 10.
Measuring instrument. W. R. Green. 1,451,572; Apr. 10.
Measuring materials in concrete construction, Apparatus for. H. D. Palmer and J. W. Brhel. 1,451,106; Apr. 10.
Measuring depths of wells, Apparatus for. C. E. Van Orstrand. 1,451,130; Apr. 10.
Military equipment. C. E. Smith. 1,451,030; Apr. 10.
Milk receptacle. N. E. Gee. 1,451,420; Apr. 10.
Mill: *See*—
Pulverizing mill. Rolling mill.
Mill. A. Sundh and W. Westerman. 1,451,280; Apr. 10.
Milling machine. W. A. Study. 1,451,188; Apr. 10.
Mine, Submarine. W. F. Palmer. 1,451,107; Apr. 10.
Mining, Apparatus for. E. C. Morgan. 1,451,101; Apr. 10.
Minnow, Artificial. F. I. Barnia. 1,451,436; Apr. 10.
Mixer and meter, Batch. H. O. Winkler. 1,451,483; Apr. 10.
Molding machine. J. D. Daughdrill. 1,451,323; Apr. 10.
Molding machine. F. J. Wood. 1,451,249; Apr. 10.
Molding press. E. W. Thiele. 1,451,378; Apr. 10.
Mold or form. H. F. A. Kleinschmidt. 1,451,264; Apr. 10.
Mop holder. H. M. Van Deusen. 1,451,600; Apr. 10.
Motor: *See*—
Hydrocarbon motor. Liquid motor.
Motor-cycle support. J. S. Ealick. 1,451,210; Apr. 10.
Necktie holder. J. T. Clark. 1,451,290; Apr. 10.
Needle presser, Spring-. G. P. Bosworth. 1,450,937; Apr. 10.
Nozzle construction, Hydraulic-. C. B. McAulay. 1,451,165; Apr. 10.
Nozzle, Pneumatic cleaning. J. O. Reed. 1,451,553; Apr. 10.
Nursery table, Foldable. D. C. Ward. 1,451,285; Apr. 10.
Nut and bolt lock. G. A. Fether. 1,451,014; Apr. 10.
Oil burner. W. B. Kerrick. 1,451,460; Apr. 10.
Oil distillation, Method of and apparatus for. J. W. Van Dyke. 1,451,129; Apr. 10.
Oil-refining device. C. F. Hillman. 1,451,574; Mar. 10.
Oil-shale retort. G. E. Holmes. 1,451,575; Apr. 10.
Optical testing and measuring instrument. J. Mihalyi. 1,451,302; Apr. 10.
Optician's tool. J. M. Lawlor. 1,450,959; Apr. 10.
Ophthalmic mounting. W. E. McDonell. 1,451,098; Apr. 10.
Outlet box. L. H. Church and G. C. Thomas, jr. 1,450,972; Apr. 10.
Ovens, Attachment for. W. B. Painter and E. A. Reeves. 1,451,050; Apr. 10.
Packages, Manufacture of moistureproof. H. G. Eckstein. 1,451,145; Apr. 10.
Paint, Cumaron. C. Ellis. 1,451,092; Apr. 10.
Pan lifter. J. R. Johnson. 1,451,042; Apr. 10.
Paper-bag handle construction. G. W. Eisenhart. 1,451,652; Apr. 10.
Paper, Boring machine for. I. Gestas. 1,451,610; Apr. 10.
Paper-cupping machine. W. R. Schindler. 1,451,057; Apr. 10.
Paper-cutting machine. C. Seybold. 1,451,120; Apr. 10.
Paper-hanger's tool. W. B. Lupton. 1,451,444; Apr. 10.
Paper-making machines, Automatic stock regulator for. R. Hockman. 1,451,659; Apr. 10.
Paper pulp and the like, Production of. B. S. Summers. 1,451,125; Apr. 10.
Paper stock, Mechanism for the recovery of. B. M. Baxter. 1,451,522; Apr. 10.
Pasteurizer, Milk and cream. C. J. Westergaard. 1,451,132; Apr. 10.
Pattern and guide strip. S. H. Calkins. 1,451,491; Apr. 10.
Pencil. C. Stehl. Des. 62,198; Apr. 10.
Pencil. P. W. Werner. 1,451,193; Apr. 10.
Pencil-illuminating device. H. Stecher. 1,450,991; Apr. 10.
Pen feeder, Fountain-. H. F. Austin. 1,451,314; Apr. 10.
Pen spring safely clip, Fountain-. G. P. Jallier. 1,451,261; Apr. 10.
Percolator, Electric. F. Thornton, jr. 1,451,556; Apr. 10.
Percussive tools, Independent rotation for. C. C. Hansen. 1,451,362; Apr. 10.
Permutation switch. R. Frederick. 1,451,569; Apr. 10.
Phonograph. J. F. Bergander. 1,451,358; Apr. 10.
Phonograph-cabinet grille. J. O. Miller. Des. 62,194; Apr. 10.
Phonographic doll. S. Haskell. 1,451,022; Apr. 10.
Phonograph, Magazine. L. J. Thon. 1,451,282; Apr. 10.
Phonographs, Speed regulator for. E. W. Ladd. 1,451,663; Apr. 10.
Photograph-display cabinet. H. Roth. 1,451,029; Apr. 10.
Photographic dark room. J. S. Greene. 1,451,159; Apr. 10.
Photographic-developing apparatus and method. G. M. Dye. 1,451,065; Apr. 10.
Photographic films, Method and device for handling. G. M. Dye. 1,451,066; Apr. 10.
Pictures, Making and exhibiting moving. I. T. Purcell. 1,451,086; Apr. 10.
Picker or fiber-cleaning machine. J. E. O'Connell. 1,450,922; Apr. 10.
Pin and clip, Pencil. P. Anderson. 1,451,413; Apr. 10.
Pinion, Flexible. H. A. Houston. 1,451,576; Apr. 10.
Pin: *See*—
Safety pin.
Pin, Safety. S. Olop. 1,451,105; Apr. 10.
Pipe wrench. E. A. Peterson. 1,451,084; Apr. 10.
Piston-cooling device. R. Schlatter. 1,451,375; Apr. 10.
Pistons, Core box for. D. W. Clark. 1,451,010; Apr. 10.
Planer. A. W. Draeseke and A. W. Parkes. 1,450,971; Apr. 10.
Planters, Marker-device for. C. H. White. 1,451,669; Apr. 10.
Plate or similar article. C. A. May. Des. 62,208; Apr. 10.
Plowbrace. H. C. Welker. 1,451,560; Apr. 10.
Plug, Sparking. E. Pethoud. 1,450,987; Apr. 10.
Pocket lock, Garment. J. C. Bahr. 1,451,196; Apr. 10.
Potato-curing apparatus, Sweet-. H. T. Lyttleton. 1,450,979; Apr. 10.
Power-transmission apparatus. A. H. Neuland. 1,451,465; Apr. 10.
Power-transmission mechanism. J. Impellizieri. 1,451,616; Apr. 10.
Precious metals, Process and apparatus for recovery of. F. A. Beauchamp. 1,451,454; Apr. 10.

Press: *See*—
Forging press. Printing press.
Molding press.
Presses, Charging of cocoa-butter. W. E. Prescott. 1,451,432; Apr. 10.
Pressing machine, Steam garment-. J. Dashew. 1,451,292; Apr. 10.
Pressure gauge. R. Faries. 1,451,038; Apr. 10.
Pressure gauge. W. P. Hammond. 1,451,257; Apr. 10.
Pressure gauge. M. C. Schweinert and H. P. Kraft. 1,451,307; Apr. 10.
Pressure indicator and gauge, Air-. E. C. Miller. 1,451,514; Apr. 10.
Pressure regulator. E. S. Vincent. 1,451,481; Apr. 10.
Printing form, Flexible. C. Chisholm. 1,451,204; Apr. 10.
Printing intersecting lines, Device for. J. Rosenberg. 1,451,475; Apr. 10.
Printing press. W. H. Long. 1,457,045; Apr. 10.
Printing-type-composing apparatus. A. Lubac. 1,450,960; Apr. 10.
Printing vulcanizer. C. B. Haughey. 1,451,611; Apr. 10.
Projectile, Spotting. O. M. Hustvedt and H. J. Nichols. 1,451,395; Apr. 10.
Propellers, Method of and apparatus for making. L. T. Frederick. 1,451,541; Apr. 10.
Puller: *See*—
Weed puller.
Pulverizing mill. G. H. Fraser. 1,451,152–3; Apr. 10.
Pulverizing mill. R. E. H. Pomeroy. 1,451,472; Apr. 10.
Pump or motor, Rotary apparatus operating as. P. Voreaux and R. Babel. 1,451,284; Apr. 10.
Pumps, Visible display attachment for measuring. W. S. Townsend and F. E. Douglass. 1,450,994; Apr. 10.
Punching device, Automatic. A. Hansen. 1,451,219; Apr. 10.
Purse and bill fold, Combined. A. de Clairmont. 1,451,205; Apr. 10.
Push button construction. R. E. Schieber. 1,451,476; Apr. 10.
Pyjamas. J. C. Ewing. 1,451,093; Apr. 10.
Rack: *See*—
Shoe rack.
Radiator guard. N. C. Huckestein. 1,451,337; Apr. 10.
Rail anchor. W. B. Runyan. 1,451,179; Apr. 10.
Rail, Guard. A. H. Weston. 1,451,245; Apr. 10.
Railway-crossing signal. E. H. Staley and C. I. Mansmith. 1,451,186; Apr. 10.
Railway rails, Anticreeper for. W. S. Weston. 1,451,637–8; Apr. 10.
Railway signal. S. M. Donaldson. 1,451,438; Apr. 10.
Railway switch. C. Wills. 1,451,435; Apr. 10.
Railway tie and chair, Metallic. R. R. Allshouse. 1,450,967; Apr. 10.
Railway ties, Covering for. R. Slater. 1,451,309; Apr. 10.
Rain shield. W. L. Smith. 1,451,276; Apr. 10.
Rake. Q. F. Schweder. 1,451,590; Apr. 10.
Range-finder operators, Apparatus for testing and recording the efficiency of. A. Barr and W. Stroud. 1,450,907; Apr. 10.
Ratchet wrench. G. A. Faitz. 1,451,498; Apr. 10.
Reading appliance. R. M. Searle. 1,451,182; Apr. 10.
Receptacles, Filling tube for liquid. B. F. Allnutt. 1,451,136; Apr. 10.
Reel: *See*—
Adjustable reel.
Refractory articles, Manufacture of self-hardening. W. A. France. 1,451,540; Apr. 10.
Refrigerator display. A. H. Ehrlich. 1,451,565; Apr. 10.
Refrigerator display counter. A. H. Ehrlich. 1,451,566; Apr. 10.
Regulator: *See*—
Pressure regulator.
Resilient wheel. H. M. Patch and R. R. Romney. 1,451,269; Apr. 10.
Resistor element. O. A. Brackett. 1,451,529; Apr. 10.
Retorts, Machine for charging furnace. J. E. Pedersen. 1,451,176; Apr. 10.
Rheostat. P. Harris. 1,450,919; Apr. 10.
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Rolling mill. H. Stülting. 1,451,060; Apr. 10.
Roof clamp. C. C. White. 1,451,639; Apr. 10.
Rubber heels, Mold for. L. Holmes. 1,451,510; Apr. 10.
Safes and safety vaults, Protective apparatus for. E. V. Lorig and U. G. Graham. 1,451,581; Apr. 10.
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Safety pin. A. J. Smith and F. T. Frederick. 1,451,478; Apr. 10.
Sash antirattler. J. E. Campbell. 1,451,359; Apr. 10.
Sashes, Suspension means for vertically-sliding. H. E. Campbell. 1,451,668; Apr. 10.
Sawing implement, Lumber-. J. H. Millsaps. 1,451,079; Apr. 10.
Saw tables and the like, Power control for. C. W. Anderson. 1,450,906; Apr. 10.
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Sewing machines, Plait folder for. J. J. Heap. 1,451,220; Apr. 10.
Shade and curtain support, Adjustable window. W. X. York. 1,451,453; Apr. 10.
Shale, Treating. S. Marko. 1,451,367; Apr. 10.
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Sheathing board. S. R. Shoup. 1,450,962; Apr. 10.
Sheet material, Machine and method applicable in the cutting of. F. M. Furber. 1,450,945; Apr. 10.
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Ship's log. T. S. and P. J. Walker. 1,451,602; Apr. 10.
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Shock absorber for automobiles. H. D. Hilliard. 1,451,509; Apr. 10.
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. & Z. (See Zes, James.)
Adams, D. E., Co., Inc., Athol, Mass., and New York, N. Y. Silk and artificial-silk thread and yarn. 166,894; Apr. 17; Serial No. 165,849; published Jan. 30, 1923.
Ainsley, J. C., Packing Co., Campbell, Calif. Canned fruits. 166,930; Apr. 17; Serial No. 167,911; published Feb. 6, 1923.
Amend, Fred W., Co., Chicago, Ill. Candy. 166,889; Apr. 17; Serial No. 167,286; published Feb. 6, 1923.
American Company for International Commerce, New York, N. Y. Cotton sheeting. 166,784; Apr. 17; Serial No. 161,102; published July 25, 1922.
American Hard Rubber Company, Hempstead and New York, N. Y. Battery jars, panels, covers, and vents, plate separators, etc. 166,855; Apr. 17; Serial No. 164,214; published Aug. 29, 1922.
American Machine Products Co., Detroit, Mich. Twist drills, milling, cutters, and reamers. 166,786; Apr. 17; Serial No. 160,106; published Sept. 12, 1922.
Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, and scoops. 166,833; Apr. 17; Serial No. 170,348; published Jan. 9, 1923.
Ames Shovel & Tool Company. (See Terre Haute Shovel & Tool Co., assignor.)
Anderson, A. & J. M., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Electric insulators. 22,148; renewed Dec. 6, 1922.
Anderson, Albert & J. M. Manufacturing Company. (See Anderson, A. & J. M., assignor.)
Anderson, Maurice K., Seattle, Wash. Candy. 166,887; Apr. 17; Serial No. 167,446; published Feb. 6, 1923.
Anti-Poison Medicine Co., Springfield, Mo. Antidote for poison, and remedies for blood and liver diseases. 22,904; renewed May 9, 1923.
Armour & Co., assignor to Armour and Company, Chicago, Ill. Substitute for lard and butter. 23,291; renewed July 4, 1923.
Ashkar, Michael A., doing business as Geddes Manufacturing Company, Syracuse, N. Y. Hair lotion. 166,966; Apr. 17.
Baer Company, The, Lehighton, Pa. Thrown silk. 166,924; Apr. 17; Serial No. 154,119; published Jan. 30, 1923.
Baldwins Limited, London, England. Tin and terne plates and sheets. 166,790; Apr. 17; Serial No. 158,415; published Jan. 16, 1923.
Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 166,869; Apr. 17; Serial No. 163,254; published Jan. 30, 1923.
Barnard, Geo. D., Stationery Company, St. Louis, Mo. Writing paper. 166,979; Apr. 17.
Bear Brand Hosiery Co. (See Paramount Knitting Company, The, assignor.)
Bennett, Nellie L., doing business as Mayfair, Hollywood, Calif. Jams and fruit preserves. 166,897; Apr. 17; Serial No. 165,478; published Feb. 6, 1923.
Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' shirts. 166,862; Apr. 17; Serial No. 163,566; published Jan. 9, 1923.
Berger, Harry, Shirt Company. (See Berger, Harry.)
Bernstein, Louis, doing business as Bernstein Shoe Co., New York, N. Y. Women's shoes. 166,829; Apr. 17; Serial No. 170,862; published Jan. 23, 1923.
Bernstein Shoe Co. (See Bernstein, Louis.)
Beshere, Joseph J., doing business as Vita-Grain Mfg. Co., Charleston, S. C. Cereal breakfast food. 166,917; Apr. 17; Serial No. 164,856; published Jan. 30, 1923.
Blumenthal, Edwin M., doing business as E. M. Blumenthal & Co., Chicago, Ill. Malt and corn sirup used in the manufacture of nonalcoholic malt beverages. 166,832; Apr. 17; Serial No. 170,678; published Jan. 9, 1923.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 166,941; Apr. 17; Serial No. 171,895; published Jan. 30, 1923.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 166,947; Apr. 17; Serial No. 171,894; published Jan. 30, 1923.
Boise Butcher Company, Ltd., Boise, Idaho. Boiled hams, sugar-cured meats, lard, etc. 166,792; Apr. 17; Serial No. 156,775; published Jan. 30, 1923.
Bonsmo, Albert, Brooklyn, N. Y. Candy. 166,880; Apr. 17; Serial No. 151,306; published Feb. 6, 1923.
Boyle, John, & Company Incorporated, New York, N. Y. Unbleached, bleached, dyed, and colored cotton ducks and drills in the piece. 167,001; Apr. 17.
Brandeau, Anna F., Chicago, Ill. Garters. 166,805–6; Apr. 17; Serial Nos. 168,199–200; published Jan. 9, 1923.
Broadway Knitting Mills, New York, N. Y. Knitted caps. 166,847; Apr. 17; Serial No. 165,984; published Jan. 9, 1923.
Brown Company, Portland, Me. Wrapping paper. 166,931–2; Apr. 17; Serial Nos. 168,021–2; published Jan. 16, 1923.
Buckingham & Hecht, San Francisco, Calif. Shoes of leather. 166,857; Apr. 17; Serial No. 164,020; published Jan. 9, 1923.
Buffalo Novelty Company. (See Diodato, Frank A., assignor.)
Cairo Food Products Company, Cairo, Ill. Chocolate-covered ice-cream bar. 166,867; Apr. 17; Serial No. 163,327; published Dec. 19, 1922.
Campbell, Joseph, Company, Camden, N. J. Spaghetti. 166,870–1; Apr. 17; Serial Nos. 162,606–7; published Feb. 6, 1923.
Cangen, Mark, doing business as M. Cangen & Co., Brooklyn, N. Y. Steel shoe shanks. 166,852; Apr. 17; Serial No. 165,272; published Jan. 16, 1923.
Carr, L. M. (See Rathburn, Silas E.)
Cash, Charles S., Inc., New York, N. Y. Nuts in the shell and shelled, salted, and candied nuts and glacé fruit candies. 166,904; Apr. 17; Serial No. 163,813; published Feb. 6, 1923.
Champion Tool Company, Meadville, Pa. Farriers', blacksmiths', and cobblers' tools. 166,796; Apr. 17; Serial No. 152,410; published Aug. 1, 1922.
Chandler & Price Company, The, Cleveland, Ohio. Printing presses and parts thereof. 166,810; Apr. 17; Serial No. 167,801; published Jan. 23, 1923.
Chemical Paper Manufacturing Co., Holyoke, Mass. Cover paper. 166,883; Apr. 17; Serial No. 142,385; published Jan. 16, 1923.
Cherry-Bassett-Winner Company, Wilmington, Del., and Philadelphia, Pa., Pasteurizing vats, coolers and batch mixers, etc. 166,859; Apr. 17; Serial No. 163,740; published Jan. 23, 1923.
Chicago Varnish Company, Chicago, Ill., assignor to Flint Varnish & Color Works, Flint, Mich. Varnishes, stains, driers, japans, and kindred goods. 22,394–5; renewed Jan. 31, 1923.
China and Japan Trading Company, (Ltd.), New York, N. Y. Woven cotton and woolen fabrics. 166,940; Apr. 17; Serial No. 171,831; published Jan. 30, 1923.
Chiswick Polish Company, Ltd., The, Chiswick, London, England. Stains, varnishes, and enamels, floor polishes. 166,821; Apr. 17; Serial No. 166,524; published Jan. 9, 1923.
Chromol Manufactory of Chemical Products, Inc., The, Vienna, Austria. Coloring and conserving means in the nature of a paint for leather, iron and wood. 166,799; Apr. 17; Serial No. 138,847; published May 9, 1922.
Clarke, Algernon E., Grand Rapids, Mich. Implements for weighing liquids and semisolids. 166,849; Apr. 17; Serial No. 165,662; published Jan. 23, 1923.
Clicquot Club Company. (See Millis, Henry L., assignor.)
Cluett, Peabody & Company, Inc., Troy, N. Y. Handkerchiefs. 166,951; Apr. 17; Serial No. 171,787; published Jan. 30, 1923.
Coleman Lamp Co., Wichita, Kans. Air pumps and parts therefor. 166,962; Apr. 17.
Comas Cigarette Machine Company, Salem, Va. Machinery used in the manufacture of cigarettes. 166,803; Apr. 17; Serial No. 168,457; published Jan. 23, 1923.
Consolidated Textile Corporation, New York, N. Y. Cotton crêpe, printed, woven, and in plain colors. 166,954; Apr. 17; Serial No. 170,808; published Jan. 30, 1923.
Darwin & Milner, Inc., Cleveland, Ohio. Tool steel. 166,838; Apr. 17; Serial No. 160,535; published Jan. 9, 1923.
De Grauw, Aymar & Co., assignor to De Grauw, Aymar & Company, New York, N. Y. Oars, handspikes, and capstan bars. 21,081; renewed May 10, 1922.
Deaman-Myers Cord Tire Co., The, Warren, Ohio. Rubber tires. 166,986; Apr. 17.
Dick, A. B., Company, Chicago, Ill. Duplicating machines and parts thereof. 166,808; Apr. 17; Serial No. 167,937; published Jan. 23, 1923.
Dickinson, Albert, Company, The, Chicago, Ill. Farm or agricultural seeds. 23,347; renewed July 11, 1923.
Dickinson, Albert, Company, The, Chicago, Ill. Shelled pop corn. 23,250; renewed June 27, 1923.
Diodato, Frank A., doing business as Buffalo Novelty Company, Buffalo, N. Y. Gasoline savers or devices for supplying water vapor to internal-combustion engines. 166,840; Apr. 17; Serial No. 169,011; published Jan. 9, 1923.
Distillers Company, Limited, The, Edinburgh, Scotland. Whisky. 22,771; renewed Apr. 11, 1923.
Dudley Gum Company, Nashville, Tenn. Chewing gum. 167,002; Apr. 17.
Duplex Printing Press Company, Battle Creek, Mich. Perfecting printing presses. 23,192; renewed June 6, 1923.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Collars for personal wear. 166,787; Apr. 17; Serial No. 160,053; published Jan. 9, 1923.
Eastern Hair Net Trading Co., New York, N. Y. Hair nets. 166,944; Apr. 17; Serial No. 172,267; published Jan. 30, 1923.

Economos, Michael, Oak Park, Ill. Candy bars. 166,902; Apr. 17; Serial No. 164,310; published Feb. 6, 1923.
Embro Medicine Company. (See Shinbaum, Ernest.)
Endicott-Johnson Corporation, Endicott, N. Y. Leather shoes. 166,802; Apr. 17; Serial No. 168,520; published Jan. 9, 1923.
Erie County Milk Association, Erie, Pa. Ice cream. 166,816; Apr. 17; Serial No. 167,237; published Feb. 6, 1923.
Evans, George B., Philadelphia, Pa. Toilet powders and dentifrice. 23,445; renewed Aug. 1, 1923.
Everard, James, assignor to James Everard's Breweries, New York, N. Y. Lager beer. 22,481: renewed Feb. 14, 1923.
Ferris Bros. Co., The, New York, N. Y. Corsets, waists, brassières and girdle brassières. 166,861; Apr. 17; Serial No. 163,576; published Jan. 9, 1923.
Flint Varnish & Color Works. (See Chicago Varnish Company, assignor.)
Florida Honey Products Co. (See Warnecke, Jacob A.)
Forrest Mercerizing Co., Gloucester, N. J. Mercerized yarns. 166,912; Apr. 17; Serial No. 168,213; published Jan. 23, 1923.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 166,945; Apr. 17; Serial No. 172,217; published Jan. 30, 1923.
Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Pumping equipment and water systems. 166,819; Apr. 17; Serial No. 166,942; published Jan. 23, 1923.
Fox River Paper Company, Appleton, Wis. Writing paper. 166,943; Apr. 17; Serial No. 172,328; published Jan. 16, 1923.
Friedrich, Johannes, doing business as L. Perlmann, Leipzig, Germany. Knives and scissors. 166,822; Apr. 17; Serial No. 166,444; published Jan. 23, 1923.
G. B. Borsalino Fu Lazzaro & C., Alessandria, Italy. Men's hats. 166,864; Apr. 17; Serial No. 163,136; published Jan. 9, 1923.
Gage Brothers & Company, Chicago, Ill. Ladies' hats. 166,817; Apr. 17; Serial No. 167,124; published Jan. 9, 1923.
Galban, Lobo Co., S. A., Habana, Cuba. Wheat flour. 166,984; Apr. 17.
Garlock Packing Co., assignor to The Garlock Packing Company, Palmyra, N. Y. Packing for machinery. 23,420; renewed July 25, 1923.
Gauthier, Hector A., Lynn, Mass. Dyspeptic compound. 166,973; Apr. 17.
Geddes Manufacturing Company. (See Ashkar, Michael A.)
General Electric Company, Schenectady, N. Y. Non-metallic gear wheels and gear-wheel blanks. 166,783; Apr. 17; Serial No. 161,181; published Jan. 23, 1923.
Glass, Henry, & Co., New York, N. Y. Cotton piece goods. 166,955; Apr. 17; Serial No. 170,580; published Jan. 30, 1923.
Golber, Hyman E., doing business as H. E. Golber and Company, Chicago, Ill. Pencil leads and mechanical pencils holding such leads. 166,892; Apr. 17; Serial No. 165,949; published Sept. 19, 1922.
Goldie Fruit Co. (See Weinstein, Goldie.)
Golding Fabrics Corporation, New York, N. Y. Piece goods made of silk. 166,906; Apr. 17; Serial No. 170,276; published Jan. 23, 1923.
Golding Fabrics Corporation, New York, N. Y. Piece goods made of silk. 166,937; Apr. 17; Serial No. 170,278; published Jan 30, 1923.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber or composition heels and soles for boots and shoes. 166,827; Apr. 17; Serial No. 170,934; published Jan. 23, 1923.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Textile fabrics consisting of cotton, woolen, and silk piece goods. 166,826; Apr. 17; Serial No. 171,269; published Feb. 6, 1923.
Gray Motor Corporation, Detroit, Mich. Internal-combustion engines. 166,877; Apr. 17; Serial No. 156,489; published Nov. 28, 1922.
Greater N. Y. Hat & Cap Works, New York, N. Y. Men's and boys' hats. 166,840; Apr. 17; Serial No. 166,229; published Jan. 9, 1923.
Grossmith, John L., assignor to J. Grossmith & Son, Limited, London, England. Perfumery and perfumed soap. 23,025; renewed May 16, 1923.
Gruendler Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers, shredders, breakers, pulverizers, and grinders. 166,850; Apr. 17; Serial No. 165,372; published Jan. 23, 1923.
Halferty, G. P., Seattle, Wash. Canned salmon. 166,881; Apr. 17; Serial No. 150,677; published Jan. 17, 1922.
Halferty, G. P., Seattle, Wash. Canned salmon. 166,882; Apr. 17; Serial No. 150,674; published Jan. 17, 1922.
Hammesfahr, Gottlieb, Solingen-Foche, Germany. Table flatware of base metal, consisting of knives, forks, spoons, etc. 166,843; Apr. 17; Serial No. 165,951; published Jan. 23, 1923.
Harrower, Henry B., doing business as The Harrower Laboratory, Glendale, Calif. Medicinal preparation for diabetes. 167,004; Apr. 17.
Hartzell, Earl F., Pittsburgh, Pa. Oils and greases. 166,791; Apr. 17; Serial No. 157,667; published Jan. 30, 1923.
Hauck, Peter, jr., East Orange, N. J. Malt sirups for food purposes. 166,919; Apr. 17; Serial No. 164,432; published Jan. 30, 1923.
Heller, B., & Company, Chicago, Ill. Waste and drain pipes, sink opener and cleaner. 166,058; Apr. 17.
Heller, Joseph J., Los Angeles, Calif. Fountain pens. 166,874; Apr. 17; Serial No. 159,027; published Jan. 23, 1923.
Heylman, Frederick C., Martinez, Calif. Valves. 166,812; Apr. 17; Serial No. 167,566; published Jan. 23, 1923.
Hipp, Didisheim Company, Inc., New York, N. Y. Watches, watch movements, and parts of same. 166,999; Apr. 17.
Hirschl & Bendheim, Washington, Mo. Corncob tobacco-smoking pipes. 166,789; Apr. 17; Serial No. 159,313; published June 13, 1922.
Holbrook, Merrill & Stetson, San Francisco, Calif. Plumbing, steam-fitting, and hardware supplies. 166,798; Apr. 17; Serial No. 150,531; published Jan. 9, 1923.
Hollins, William, & Co., Inc., New York, N. Y. Cotton piece goods. 166,907; Apr. 17; Serial No. 170,193; published Jan. 30, 1923.
Hoody Peanut Butter Co. (See Townsend, Glenn Q.)
Hurlock Bros. Company, Inc., Philadelphia, Pa. Paper illustration stock. 166,997–8; Apr. 17.
Hutcheon Brothers, New York, N. Y. Pens and pencils. 166,978; Apr. 17.
Industrial Chemical & Fertilizer Company, Brunswick, Ga. Potassium phosphate as well as general mixed fertilizers and highly-concentrated plant food. 166,823; Apr. 17; Serial No. 173,831; published Feb. 13, 1923.
Isaacsen, Adolph, & Son, assignor to Adolph Isaacsen & Son, Inc., New York, N. Y. Insect and vermin destroying preparations. 23,498; renewed Aug. 15, 1923.
Jacobs, Harry L., Detroit, Mich. Caps. 166,809; Apr. 17; Serial No. 167,877; published Jan. 9, 1923.
Jevne, H., Company, doing business as Jevne's, Los Angeles, Calif. Candies. 166,896; Apr. 17; Serial No. 165,685; published Jan. 30, 1923.
John, Hermann A., doing business as Von der Heyde & John, New York, N. Y. Cotton, woolen, half-wool, and woven piece goods. 166,956; Apr. 17; Serial No. 170,389; published Jan. 23, 1923.
Jones Bros. & Co., San Francisco and Watsonville, Calif. Apple-cider vinegar. 166,987; Apr. 17.
Jones, S. M., Company, The, Toledo, Ohio. Sucker rods. 166,858; Apr. 17; Serial No. 163,874; published Jan. 23, 1923.
Julien, Alexander, Chicago, Ill. Mustard, tartar, and mayonnaise dressings. 166,901; Apr. 17; Serial No. 164,595; published Feb. 6, 1923.
Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes and kid, canvas, and leather. 166,835; Apr. 17; Serial No. 170,200; published Jan. 23, 1923.
Kant-Skore Piston Company, The, Cincinnati, Ohio. Pistons. 166,980; Apr. 17.
Kennedy, David E., Inc., New York, N. Y. Linoleum flooring. 166,906; Apr. 17.
Keystone Manufacturing Co., The, Buffalo, N. Y. Stud drivers, pipe and nut wrenches, drilling posts, etc. 166,836; Apr. 17; Serial No. 169,716; published Jan. 9, 1923.
Kings County Packing Co., Armona, Calif. Canned fruits and vegetables. 166,933; Apr. 17; Serial No. 168,041; published Feb. 6, 1923.
Knickerbocker Brace Company, Easton, Pa. Shoulder braces and suspenders. 23,427; renewed Aug. 1, 1923.
Kroder, John, and Henry Reubel Company, The New York, N. Y. Angle joints for railings, brackets, brads, metallic carpet bindings, etc. 166,860; Apr. 17; Serial No. 163,584; published Jan. 23, 1923.
Kurtin & Kurtin, New York, N. Y. Butter, eggs, cheese. 166,878; Apr. 17; Serial No. 155,410; published Feb. 6, 1923.
Lacost & Schwedler, Chicago, Ill. Shoes made of leather. 166,975; Apr. 17.
Lasitter, Joseph, Richmond, Va. General tonic for animals. 166,993; Apr. 17.
Laucks, I. F., Inc., Seattle, Wash. Fertilizer. 166,968; Apr. 17.
Lewis, Edgar P., Boston, Mass. Chocolates and cream walnuts. 166,994; Apr. 17.
Lewis, L. H., Company, Dallas, Tex. Hair nets. 166,952; Apr. 17; Serial No. 171,425; published Jan. 30, 1923.
Livinggood Manufacturing Corporation, Lebanon, Pa. Portable refrigerators. 166,939; Apr. 17; Serial No. 171,426; published Jan. 23, 1923.
Loeser, David, New York, N. Y. Intravenous solutions, iron, arsenic, phosphorus, digitalis, etc. 166,961; Apr. 17.
Loewenberg, Victor, doing business as Victor Specialty Company, New York, N. Y. Nipples. 166,828; Apr. 17; Serial No. 170,918; published Jan. 30, 1923.
London Lightingwares Corporation, New York, N. Y. Gas heaters. 167,007; Apr. 17.
Loomis-Woodward Co., The, Fort Dodge, Iowa. Candies and chocolates. 166,875; Apr. 17; Serial No. 158,086; published Jan. 30, 1923.
Lowney, Walter M., Co., The, assignor to Walter M. Lowney Company, Boston, Mass. Chocolates and other bonbons. 22,591; renewed Mar. 7, 1923.
Lumidor Co., The. (See Semple, Jas. A.)

McCutcheon, James, & Company, New York, N. Y. Linen and cotton fabrics in the piece, tablecloths, napkins, handkerchiefs, etc. 166,915; Apr. 17; Serial No. 166,391; published Jan. 30, 1923.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolates, cocoa, chocolate, and candies. 166,865; Apr. 17; Serial No. 163,589; published Feb. 6, 1923.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolates, cocoa, chocolate, and candies. 166,905; Apr. 17; Serial No. 163,591; published Feb. 6, 1923.
McKay Metallic Fastening Association, assignor to United Shoe Machinery Corporation, Boston, Mass. Metallic nail strips. 23,104; renewed May 23, 1923.
Magnolia Metal Company, New York, N. Y. Babbitt, bearing, and antifriction metals and alloys. 166,841; Apr. 17; Serial No. 168,929; published Jan. 9, 1923.
Mahoney & Saxton, North Adams, Mass. Salad dressings. 166,868; Apr. 17; Serial No. 163,279; published Feb. 6, 1923.
Mailliard & Schmiedell, San Francisco, Calif. Canned fruits. 166,888; Apr. 17; Serial No. 167,312; published Feb. 6, 1923.
Malone Dairy Co., New York, N. Y. Fermented milk. 166,895; Apr. 17; Serial No. 165,804; published Jan. 30, 1923.
Marshall Field & Company, Chicago, Ill. Cigar and cigarette cases. 166,851; Apr. 17; Serial No. 165,366; published Jan. 30, 1923.
Matson, N. A., Co., Minneapolis, Minn. Toast. 166,990; Apr. 17.
Mayfair. (See Bennett, Nellie L.)
Meehan, Augustus F., Chattanooga, Tenn. Gray-iron castings. 166,856; Apr. 17; Serial No. 164,177; published Jan. 16, 1923.
Mendell, Jacob, Brooklyn, N. Y. Candies. 166,879; Apr. 17; Serial No. 153,610; published Mar. 14, 1922.
Meridian Textile Corporation, New York, N. Y. Silk, wool, cotton, linen piece goods and combinations thereof. 166,845; Apr. 17; Serial No. 166,392; published Aug. 8, 1922.
Metal Goods Manufacturing Co., Boston, Mass. Egg beaters and cream whip. 166,818; Apr. 17; Serial No. 167,050; published Jan. 9, 1923.
Meyer's Company, The, Greensboro, N. C. Nainsook, sheets, diaper cloth, quilts, and long cloth. 166,916; Apr. 17; Serial No. 166,238; published Jan. 30, 1923.
Millis, Henry L., assignor to Clicquot Club Company, Millis, Mass. Ginger ale. 19,634; renewed June 2, 1921.
Milwaukee Screw Products Co., Milwaukee, Wis. Piston pins. 166,844; Apr. 17; Serial No. 168,778; published Jan. 23, 1923.
Mint Products Co. (See Post, Leo L., assignor.)
Mitchell, Fredrick G., doing business as L. Mitchell & Company, Chicago, Ill. Hair net. 166,950; Apr. 17; Serial No. 171,855; published Jan. 23, 1923.
Mitchell, L., & Company. (See Mitchell, Fredrick G.)
Moody, R. M., London, England. Dress, negligee, and work shirts, and collars and cuffs. 166,785; Apr. 17; Serial No. 160,423; published Jan. 9, 1923.
Morse Bros., Canton, Mass., assignor to J. L. Prescott Company, New York, N. Y. Stove polish or blacking. 22,622; renewed Mar. 7, 1923.
Morvillo, Mariano, doing business as Prune Co., New York, N. Y. Laxative confection. 166,795; Apr. 17; Serial No. 152,764; published Jan. 23, 1923.
Moton, Mary L., Washington, D. C. Hair dressing. 166,911; Apr. 17; Serial No. 169,067; published Jan. 9, 1923.
Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and canned vegetables. 167,005–6; Apr. 17.
New Castle Refractories Co., New Castle, Pa. Fire bricks and furnace, kiln, burner, and other refractory parts made of fire-brick material. 166,969; Apr. 17.
Nitro-Culture Company. (See Vaisberg, Herman.)
Novelty Cutlery Company, The, Canton, Ohio. Pocket and pen knives, dirks, razors, and ink erasers. 166,843; Apr. 17; Serial No. 168,781; published Jan. 23, 1923.
Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk, cotton and silk, and silk and wool goods in the piece. 166,992; Apr. 17.
Owens Bottle Company, The, Toledo, Ohio. Bottles made of glass. 166,961; Apr. 17.
Paramount Knitting Company, The, assignor to Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 166,977; Apr. 17.
Pavitchich, Steve, Woodriver, Ill. Drain valves. 166,834; Apr. 17; Serial No. 170,208; published Jan. 23, 1923.
Peerless Traveling Goods Co., Mayville, Wis. Coat cases, suitcases, traveling bags. 166,960; Apr. 17.
Peninsular Paper Company, Ypsilanti, Mich. Cover paper. 166,268; Apr. 17; Serial No. 172,345–7; published Jan. 16, 1923.
Perlmann, Louis. (See Friedrich, Johannes.)
Pettijohn California Breakfast Food Company, Minneapolis, Minn., assignor to The Quaker Oats Company, Chicago, Ill. Rolled wheat. 22,459; renewed Feb. 14, 1923.
Physio-Chemical Laboratories, Salt Lake City, Utah. Granulated effervescent salt compound used as a blood salt. 166,988; Apr. 17.
Pike Manufacturing Company, The Pike Station, Haverhill, N. H. Oilstones and whetstones. 23,448; renewed Aug. 1, 1923.
Pollock, Wm., Milling & Elevator Co., Mexico, Mo. Graham wholewheat flour. 166,983; Apr. 17.
Post, Leo L., Forest Hills, N. Y., assignor by mesne assignments to Mint Products Co., Inc., Port Chester, N. Y. Cigarettes. 166,923; Apr. 17; Serial No. 155,446; published July 25, 1922.
Powell & Compbell, New York, N. Y. Leather shoes. 166,967; Apr. 17.
Prescott, J. L., Company. (See Morse Bros., assignor.)
Prune Co. (See Morvillo, Mariano.)
Quaker Oats Company, The. (See Pettijohn California Breakfast Food Company, assignor.)
Quaker Soap Company, Secaucus, N. J. Chemical compound for cleaning and polishing silverware. 166,989; Apr. 17.
Ramsey, Edward J., doing business as E. J. Ramsey Co., Brooklyn, N. Y. Shoes. 166,965. Apr. 17.
Rasmussen & Co., Portland, Oreg. Ready-mixed-wall paint. 166,831; Apr. 17; Serial No. 170,695; published Jan. 30, 1923.
Rathburn, Silas E., doing business as L. C. Carr, Somerville, Mass. Candies. 166,885; Apr. 17; Serial No. 167,751; published Feb. 6, 1923.
Red Star Macaroni Co. Inc., Brooklyn, N. Y. Macaroni and spaghetti. 166,891; Apr. 17; Serial No. 167,101; published Jan. 23, 1923.
Rieger, Ernest A., New York, N. Y. Silk piece goods. 166,953; Apr. 17; Serial No. 170,899; published Jan. 30, 1923.
Rigaud, Henri, doing business as Rigaud, Paris, France, and New York, N. Y. Perfume, toilet water, face lotion. 166,971; Apr. 17.
Rigaud, Henri, doing business as Rigaud, Paris, France, and New York, N. Y. Perfume, rouge, face creams, etc. 166,972; Apr. 17.
Robinson Silk Company, Inc., Astoria and New York, N. Y. Silk piece goods. 166,957; Apr. 17; Serial No. 170,309; published Jan. 30, 1923.
Rogers Peet Company, New York, N. Y. Men's and boys' hats and caps. 166,839; Apr. 17; Serial No. 169,084; published Jan. 9, 1923.
Rose & Frank Company, New York, N. Y. Cloth used for making typewriter ribbon. 166,946; Apr. 17; Serial No. 172,175; published Jan. 30, 1923.
Sanderson Brothers & Newbould, Limited, Sheffield, England. Files and rasps, handsaws, hack-saw blades, etc. 166,854; Apr. 17; Serial No. 164,276; published Jan. 16, 1923.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Men's, youths', and boys' suits and overcoats. 166,863; Apr. 17; Serial No. 163,293; published Oct. 24, 1922.
Sanimo Company, The, St. Louis, Mo. Rubber crib sheets, rubber baby pants, rubber sanitary aprons, etc. 166,788; Apr. 17; Serial No. 159,629; published Jan. 30, 1923.
Santander Coffee Co., New York, N. Y. Coffee. 166,872; Apr. 17; Serial No. 162,317; published Feb. 6, 1923.
Sauers Milling Company, The, Evansville, Ill. Self-rising wheat flour. 167,009; Apr. 17.
Sauers Milling Company, The, Evansville, Ill. Wheat flour. 166,995; Apr. 17.
Schmidt, Max, doing business as Peter Ludwig Schmidt, Elberfeld, Germany. Razors. 166,830; Apr. 17; Serial No. 170,792; published Jan. 23, 1923.
Schmidt, Peter L. (See Schmidt, Max.)
Scott, Sibyl A., New York, N. Y. Wooden wedge blocks. 166,794; Apr. 17; Serial No. 154,420; published Jan. 9, 1923.
Schoenberg, F. E., Mfg. Co., St. Louis, Mo. Screen doors, windows, and transoms and frames for same. 167,000; Apr. 17.
Scinsheimer Paper Company, The, Cincinnati, Ohio. Wrapping paper. 166,800; Apr. 17; Serial No. 138,110; published Feb. 1, 1921.
Semple, Jas. A., doing business as The Lumidor Co., Chicago, Ill. Humidifying devices for internal-combustion engines. 166,936; Apr. 17; Serial No. 169,377; published Jan. 9, 1923.
Sewell-Clapp-Envelopes, Chicago, Ill. Envelopes. 166,938; Apr. 17; Serial No. 171,288; published Jan. 16, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Cleaning and renewing the finish of waxed, painted, and varnished floors, furniture, etc. 166,963; Apr. 17.
Shinbaum, Ernest, doing busines as Embro Medicine Company, Chattanooga, Tenn. Embrocation or liniment. 166,876; Apr. 17; Serial No. 156,827; published Jan. 9, 1923.
Smith & Dove Manufacturing Co., Andover, Mass. Cotton thread. 166,913; Apr. 17; Serial No. 167,059; published Jan. 23, 1923.
Société Marcel Bassot & Co., Paris, France. Nonferrous pipes for power water-inlet piping. 166,793; Apr. 17; Serial No. 156,758; published Jan. 16, 1923.
Societe Vinicole de Champagne, Paris, France. Champagne wines and other sparkling wines. 166,853; Apr. 17; Serial No. 165,212; published Jan. 30, 1923.
Stampher, Lillian R., Dover, N. J. Bonnets, hats, and caps. 166,820; Apr. 17; Serial No. 166,750; published Jan. 9, 1923.
Standard Coupler Company, New York, N. Y. Draft gear for locomotives and railway and trolley cars. 166,959; Apr. 17.
Standard Vibrating Churn Company, Chicago, Ill. Butter churns. 166,807; Apr. 17; Serial No. 168,176; published Jan. 23, 1923.

Star and Crescent Milling Company, Chicago, Ill. Wheat flour. 23,262; renewed June 27, 1923.
Staso Milling Company, Poultney, Vt. Compound used for sealing metallic pipe joints. 166,901; Apr. 17.
Stein, S., & Co., New York, N. Y. Woolen cloths in the piece intended for suiting, etc. 166,914; Apr. 17; Serial No. 166,479; published Feb. 6, 1923.
Stein, S., & Co., New York, N. Y. Woolen cloths in the piece intended for suiting, etc. 166,915; Apr. 17; Serial No. 164,459; published Jan. 30, 1923.
Stetson Shoe Company, Inc., The, Weymouth, Mass. Boots and shoes for men and women. 166,976; Apr. 17.
Strype, Fred. C., New York, N. Y. Wrapping, etc., paper. 166,934–5; Apr. 17; Serial No. 168,385–6; published Jan. 16, 1923.
Stubs, Peter, Limited, Warrington and Rotherham, England. Steel, steel wire, tools, files and saws. 22,752–3; renewed Apr. 4, 1923.
Sullivan Packing Company, Detroit, Mich. Hams, bacon, sausage, lard, and boiled hams. 167,008; Apr. 17.
Swift and Company, Chicago, Ill. Dressed poultry. 166,899; Apr. 17; Serial No. 165,096; published Jan. 30, 1923.
Swift & Company, Chicago, Ill. Pepsin pancreatin and rennet and their compounds. 22,539; renewed Feb. 28, 1923.
Swing, M. E., Company, Washington, D. C. Coffee. 166,890; Apr. 17; Serial No. 167,104; published Feb. 6, 1923.
Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. 166,948–9; Apr. 17; Serial No. 171,877–8; published Jan. 30, 1923.
Terre Haute Shovel & Tool Co., Terre Haute, Ind., assignor to Ames Shovel & Tool Company, Boston, Mass. Diamond-pointed spades. 23,409; renewed July 25, 1923.
Thlinket Packing Company, Portland, Oreg., and Funter Bay, Alaska. Canned salmon. 166,884; Apr. 17; Serial No. 113,333; published Feb. 6, 1923.
Thompson, Mabel L., doing business as The Thompson Medical Company, Avon, N. Y. Medicinal throat tablets. 166,985; Apr. 17.
Thompson Milling Co., Lockport, N. Y. Wheat flour. 166,922; Apr. 17; Serial No. 159,543; published Mar. 20, 1923.
Tingue, Brown & Co., New York, N. Y. Cotton sheeting, knitted padding, netting, and canvas and duck piece goods. 166,908; Apr. 17; Serial No. 170,167; published Jan. 30, 1923.
Tingue, Brown & Co., New York, N. Y. Cotton sheeting for covering the padding on ironing rolls. 166,909; Apr. 17; Serial No. 170,166; published Jan. 23, 1923.
Tingue Manufacturing Company, Seymour, Conn., and New York, N. Y. Textile fabrics—namely, fabrics of silk and worsted for women's wear. 166,910; Apr. 17; Serial No. 170,102; published Jan. 30, 1923.
Tissue Co., The, Saugerties, N. Y. Crêpe paper. 166,942; Apr. 17; Serial No. 172,066; published Jan. 16, 1923.
Town Talk M'f'g. Co., Louisville, Ky. Adjustable caps. 166,970; Apr. 17.
Townsend, Glenn Q., doing business as Hoody Peanut Butter Co., Portland, Oreg. Peanut butter and salted peanuts. 166,903; Apr. 17; Serial No. 164,280; published Feb. 6, 1923.
Tru-Way Razor Company, The, Pittsburgh, Pa. Razor and razor blades. 166,804; Apr. 17; Serial No. 168,228; published Jan. 23, 1923.
Ubry, Edmund, New York, N. Y. Ladies' trimmed and tailored hats. 166,815; Apr. 17; Serial No. 167,276; published Jan. 9, 1923.
Union Macaroni Company, Beaumont, Tex. Macaroni, spaghetti, vermicelli, noodles, and cut macaroni. 166,866; Apr. 17; Serial No. 163,554; published Jan. 30, 1923.
United Shoe Machinery Corporation. (See McKay Metallic Fastening Association, assignor.)
United States Printing Co., The, assignor to The United States Playing Card Company, Cincinnati, Ohio. Playing cards. 22,580; renewed Mar. 7, 1923.
United States Printing Co., The, assignor to The United States Playing Card Company, Cincinnati, Ohio. Playing cards. 22,582; renewed Mar. 7, 1923.
Vaisberg, Herman, doing business as Nitro-Culture Company, Savannah, Ga. Germ food for plants. 166,974; Apr. 17.
Vapo-Cresolene Company, The, Stanley, N. J., and New York, N. Y. Certain medical and disinfecting compounds and apparatus. 23,441; renewed Aug. 1, 1923.
Victor Oil Company, The, Cleveland, Ohio. Lubricating oils. 166,801; Apr. 17; Serial No. 129,916; published Feb. 14, 1922.
Victor Specialty Company. (See Loewenberg, Victor.)
Vislok Limited, London, England. Nuts and bolts. 166,814; Apr. 17; Serial No. 167,438; published Jan. 16, 1923.
Vita Food Company, Salt Lake City, Utah. Medicated food for convalescents and invalids. 166,925; Apr 17; Serial No. 137,549; published Dec. 12, 1922.
Vita-Grain Mfg. Co. (See Beshere, Joseph J.)
Von der Heyde & John. (See John, Hermann A.)
Vulcan Crucible Steel Co., Aliquippa, Pa. Tool steel. 166,797; Apr. 17; Serial No. 152,292; published Jan. 9, 1923.
Wabash Cabinet Co., The, Wabash, Ind. Blank index guides, record cards, card alphabets, and folders. 166,982; Apr. 17.
Wagner, Augusta A., successor. (See Wagner, Robert H.)
Wagner, G. M. H., & Sons, Chicago, Ill. Fresh cantaloupes and apples. 166,900; Apr. 17; Serial No. 164,791; published Feb. 6, 1923.
Wagner Research Society, Cincinnati, Ohio. Carburetors. 166,842; Apr. 17; Serial No. 168,909; published Jan. 23, 1923.
Wagner, Robert H., assignor to A. A. Wagner, successor, Rye, N. Y. Liniment. 23,562; renewed Aug. 29, 1923.
Walker, Fred, & Co. Proprietary Limited, Melbourne, Victoria, Australia. Meat extracts. 166,873; Apr. 17; Serial No. 162,087; published Feb. 6, 1923.
Wander Company, The, Chicago, Ill. Antiobesity tablets. 166,904; Apr. 17.
Ward Baking Company, New York, N. Y. Bread. 166,921; Apr. 17; Serial No. 161,662; published Dec. 12, 1922.
Ward Baking Company, New York, N. Y. Cereal breakfast foods. 166,920; Apr. 17; Serial No. 164,353; published Jan. 30, 1923.
Warnecke, Jacob A., doing business as Florida Honey Products Co., Tavares, Fla. Honey. 166,886; Apr. 17; Serial No. 167,665; published Feb. 6, 1923.
Weber Lithographing Co., Chicago, Ill. Bond paper. 166,824; Apr. 17; Serial No. 172,022; published Feb. 6, 1923.
Weck, Edward, & Son, Inc., New York, N. Y. Cutlery—namely, pocketknives, kitchen and table knives, scissors, razors, and razor blades. 166,782; Apr. 17; Serial No. 161,471; published Dec. 5, 1922.
Weinstein, Goldie, doing business as Goldie Fruit Coffee Co., New York, N. Y. Beverage suitable as a substitute for coffee. 166,893; Apr. 17; Serial No. 165,904; published Feb. 6, 1923.
Weiever Piston Ring Company, The, Toledo, Ohio. Piston rings. 167,003; Apr. 17.
West Electric Hair Curler Company, Philadelphia, Pa. Hair nets. 166,811; Apr. 17; Serial No. 167,591; published Jan. 23, 1923.
Wetherald, James T., Pasadena, Calif. Raisins. 166,813; Apr. 17; Serial No. 167,440; published Feb. 6, 1923.
Williamson, Homer J., Indianapolis, Ind. Candies. 166,929; Apr. 17; Serial No. 167,857; published Feb. 6, 1923.
Wirth-Concordade Company, Providence, R. I. Grape juice. 166,837; Apr. 17; Serial No. 169,662; published Jan. 20, 1923.
Workman Manufacturing Company, The, Chicago, Ill. Stationery envelope blanks. 166,825; Apr. 17; Serial No. 171,882; published Feb. 6, 1923.
Zes, James, doing business as A. & Z., Los Angeles, Calif. Potato chips. 166,898; Apr. 17; Serial No. 165,107; published Feb. 6, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

A. B. C. Sales Corporation, New York, N. Y. Mato Wonder Washing Powder. For Washing Powder. 25,827; Apr. 17.

Barnet Leather Co. Inc., New York, N. Y. Sunset Label. For Calf Leather. 25,828; Apr. 17.

Bonnie-B Co., New York, N. Y. Bonnie B Talcum. For Talcum Powders. 25,829; Apr. 17.

Bowen Chemical Co., San Francisco, Calif. Moonshine Cleaner. For Cartons Containing Cleaner for Automobiles and Furniture. 25,830; Apr. 17.

Christians, H. C., Co., Johnson Creek, Wis., and Chicago, Ill. Elmdale. For Butter. 25,831; Apr. 17.

Economy Bias Binding Co., New York, N. Y. Double V Fold. For Bias-Seam Tape and Bias-Seam Binding. 25,832; Apr. 17.

Haupt, John J., Pittsburgh, Pa. Gold Seal Malt Extract. For Cans Containing Malt Extract. 25,833; Apr. 17.

Houghton, Wm. L., and Sons, Philadelphia, Pa. Champion Metal Polish. For a Polish for Silverware, Brassware, and Similar Metal Surfaces. 25,834; Apr. 17.

Humphrey, W. E., Co., Inc., Tacoma, Wash. Humphrey's Big Chief Bar. For Candy Bar. 25,835; Apr. 17.

Humphrey, W. E., Co., Inc., Tacoma, Wash. Humphrey's Bright Eyes Bar. For Candy Bar. 25,836; Apr. 17.

Kellogg Company, Battle Creek, Mich. Vim. For Cereal Food. 25,837; Apr. 17.

Little & Golze, Philadelphia, Pa. Alverond. For Overcoats. 25,838; Apr. 17.

National Carbon Company, Inc., New York, N. Y. Eveready Radio B Battery. For Electric Batteries. 25,839; Apr. 17.

Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. Butarol Butter Paper. For Butter. 25,840; Apr. 17.

Northrup, King & Co., Minneapolis, Minn. Sterling Lawn Grass Seed. For Bags Containing Sterling Lawn-Grass Seed. 25,841; Apr. 17.

Ono Trading Co. (See Tatsukawa, Naosaburo.)

Perfection Products Company, New York, N. Y. Rice Hearts. For Cereal Products. 25,842; Apr. 17.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint—Varnish. For Paints and Varnishes. 25,843; Apr. 17.

Salant & Salant, Inc., New York, N. Y. Veteran. For Work Shirts for Men and Boys. 25,844; Apr. 17.

Tatsukawa, Naosaburo, doing business as Ono Trading Co., San Francisco, Calif. Blue Flag Brand Fancy Crab. For Canned Crabs. 25,845; Apr. 17.

Wonderlay Milling Company, Indianapolis, Ind. Wonderlay. For Containers for Egg Mash. 25,846; Apr. 17.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Brooklyn Curtain Works, Inc., Brooklyn, N. Y. 10-Piece Cretonne Set. For Cretonne Draperies. 6,652; Apr. 17.

California Peach & Fig Growers, Fresno, Calif. Keep Your System Regulated. For Dried Peaches and Figs and Fig Products. 6,653; Apr. 17.

Christy, Blanche C., doing business as Mary Jane Christy, Chicago, Ill. Kantlose Mitten and Glove Guard. For Mitten and Glove Guards. 6,654; Apr. 17.

Christy, Mary Jane. (See Christy, Blanche C.)

Cream of Wheat Co., Minneapolis, Minn. An Old Wood Cut. For Wheat Breakfast Food. 6,655; Apr. 17.

Desmond, B. G., Manufacturing Corporation, College Point, N. Y. Desmond's Miracle Oil for Upper Motor Lubrication. For Lubricating Oils and Lubricants. 6,656; Apr. 17.

Don, Edward, & Company, Chicago, Ill. Order Today! Delivered Tomorrow. For Hotels, Restaurants, and Janitor Supplies. 6,657; Apr. 17.

Eline's Incorporated, Milwaukee, Wis. Brace up Your Child with Eline's Milk Chocolate Bars. For Chocolate. 6,658; Apr. 17.

Fairbank, N. K., Company, The, New York, N. Y. Like a Painted Lily—. For Fairy Soap. 6,659; Apr. 17.

Fairbank, N. K., Company, The, New York, N. Y. For Your Spring Cleaning. For Gold Dust Washing Powder. 6,660; Apr. 17.

Franklin Manufacturing Co., The. (See Oppenheim Oberndorf & Co.)

Kayser, Julius, & Co., New York, N. Y. Say—Kayser Gloves. For Gloves. 6,661; Apr. 17.

Oppenheim Oberndorf & Co., Inc., doing business as The Franklin Manufacturing Co., Baltimore, Md. King Tut. For Cotton Piece Goods. 6,662; Apr. 17.

Palmolive Company, The, Milwaukee, Wis. The Springtime of Life. For Palmolive Soap. 6,663; Apr. 17.

Palmolive Company, The, Milwaukee, Wis. Not a Day Older. For Palmolive Soap. 6,664; Apr. 17.

Schrafft, W. F., & Sons Corporation, Boston, Mass. Chocolates Fit for a Queen. For Schrafft's Chocolates. 6,665; Apr. 17.

Standard Oil Company. (New Jersey), Bayonne, N. J. Regular as Clock Work. For Medicinal Oils. 6,666; Apr. 17.

Ward Baking Company, New York, N. Y. Vitovim Twins. For Bread. 6,667; Apr. 17.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. and G. Co., St. Louis, Mo. Applicators for the lips. 172,409; Apr. 17.

Aetna Carpet Co., New York, N. Y. Textile carpets. 174,504; Apr. 17.

Agripa Company, The. (See Mitchell, Robert G.)

Alexander, Samuel, Philadelphia, Pa. Boots and shoes made of leather. 172,410; Apr. 17.

Aller Brothers, Chicago, Ill. Paper tablets, composition and blank books, pads, papeteries, etc. 175,589; Apr. 17.

Allingham, E. F., Mfg. Co., Colorado Springs, Colo. Puffed-wheat confection. 172,714; Apr. 17.

Altfeld, Lazarus, doing business as Altfeld Drug Co., South Bend, Ind. Liver pills, headache tablets, eye balm, uterine tonic, cold and grip tablets. 172,855; Apr. 17.

American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. 176,868; Apr. 17.

American Pickle & Canning Company, Hattiesburg, Miss. Pickles. 172,716; Apr. 17.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, and scoops. 174,986; Apr. 17.

Anderson, Arthur A., doing business as Arthur Anderson Fish Co., Astoria, Oreg. Canned salmon. 172,821; Apr. 17.

Arizona Citrus Growers' Co., Phoenix, Ariz. Fresh citrous fruits. 172,857; Apr. 17.

Associated Textile Manufacturers, Inc., New York, N. Y. Manufactured textile fabrics. 175,232; Apr. 17.

Baltimore Copper Paint Company. (See Reeder, Oliver & Son, Inc.)

Beaton & Cadwell Manufacturing Company, The, New Britain, Conn. Mops and mopsticks. 175,760; Apr. 17.

Bellingham Publishing Company, Bellingham, Wash. Afternoon newspaper. 175,127; Apr. 17.

Bellingham Publishing Company, Bellingham, Wash. Morning newspaper. 175,128; Apr. 17.

Bird-Archer Company, The, New York, N. Y. Core facings, blockings, and binders, etc. 158,596; Apr. 17.

Blair, Samuel A., doing business as Blair Lumber Company, New York, N. Y. Wall or plaster board. 174,723; Apr. 17.

Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils, pencil-point protectors, and penholders. 175,914; Apr. 17.

Blanl's, John, Sons Company, Burlington, Iowa. Coffee, tea, food extracts, spices, canned fruits and vegetables, etc. 173,028; Apr. 17.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,763; Apr. 17.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,765; Apr. 17.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,767; Apr. 17.

Booth, F. E., Co., San Francisco, Calif. Oil used in making high-gloss varnish. 167,553; Apr. 17.

Bon-Quin Co. (See Brown, H. Clay.)

Bost, Bernice C., Chicago, Ill. Section of a monthly periodical. 173,910; Apr. 17.

Bownes, Frank, Company, Inc., Lynn, Mass. Paint enamels. 176,396; Apr. 17.

Biegler, George C., doing business as Dent Laboratories, Cincinnati, Ohio. Antiseptic. 165,058; Apr. 17.

Brine, James W., Company, Boston, Mass. Woolen football blankets. 172,728; Apr. 17.

Brown, H. Clay, doing business as The Bon-Quin Co., Shreveport, La. Medicinal tonics for keeping the system in a healthy condition, etc. 173,589; Apr. 17.

Brown Orcola Company, The, Chicago, Ill. Shortening. 167,598; Apr. 17.

Bunge, Herman, Elgin, Ill. Gasoline and lubricating oils. 176,064; Apr. 17.

Butler-Blanchard Co., Grand Island, Nebr. Frozen confections. 168,706; Apr. 17.

Cabrera, G. M., doing business as Cabrera & Co., New York, N. Y. Chocolate. 168,511; Apr. 17.

California Card Manufacturing Co., San Francisco, Calif. Photographic mountings. 175,340; Apr. 17.

Carolina Remedies Company, Union, S. C. Egg producer and poultry tonic. 177,272; Apr. 17.

Celite Products Company, Los Angeles, Calif., and New York, N. Y. Material for arresting and separating impurities or other matter from fluids. 146,755; Apr. 17.

Checker Cab Manufacturing Corporation, Chicago, Ill. Automobile cabs and trucks. 169,576; Apr. 17.

Chute, Clarence L., doing business as The Chute Laboratories, New Lexington, Ohio. Embalmers' face pack, clay massage, cold cream, and vanishing cream. 170,742; Apr. 17.

Cleveland Steel Barrel Company, The, Cleveland, Ohio. Pump outfits for dispensing lubricants and other fluids, parts thereof, and fittings thereof. 171,063; Apr. 17.

Cohen, J. H., doing business as The Connecticut Automotive Specialties Co. Inc. Vacuum tank floats. 167,840; Apr. 17.

Columbia Tire and Rubber Company, The, Mansfield, Ohio. Inner tubes, pneumatic, cord, and fabric tires. 171,751; Apr. 17.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Conley, Frederick T., doing business as Symbolox Box Co., South Boston, Mass. Toothbrush containers. 175,771; Apr. 17.
Connecticut Automotive Specialties Co. Inc. (See Cohen, J. H.)
Con-O-Lite Corporation, Cortland, N. Y. Burial vaults. 176,072; Apr. 17.
Cord Tire Corporation, The, Chester, W. Va. Automobile tire casings. 167,712; Apr. 17.
Cortright Coal Company, Philadelphia, Pa. Coal. 157,475; Apr. 17.
Cox Brass Manufacturing Company, Albany, N. Y. Automobile bumpers, bumper brackets, and fittings, etc. 162,806; Apr. 17.
Cox Brass Manufacturing Company, Albany, N. Y. Bumpers, bumper brackets and fittings. 162,203–4; Apr. 17.
Cramer, C. N., Co., Ashland, Wis. Brooms. 174,891; Apr. 17.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, face powder, talcum powder, etc. 173,876; Apr. 17.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, face powder, talcum powder, etc. 173,880; Apr. 17.
Deane Plaster Co., The, Yonkers, N. Y. Antiseptic dressings and absorbent and medicated cottons and gauzes, and bandages. 175,307; Apr. 17.
De Laney, Paul, Co. Inc., The, Brockton, N. Y. Grape juice and apple juice. 175,772; Apr. 17.
Dent Laboratories. (See Biegler, George C.)
Diamond Match Company, The, Chicago, Ill. Matches. 158,322–3; Apr. 17.
Diamond Match Company, The, Chicago, Ill. Matches. 177,075–8; Apr. 17.
Diekemper, Ray J., Terre Haute, Ind. Horse-radish. 172,867; Apr. 17.
Eads, William H., Bristol, Va. Candy. 168,759; Apr. 17.
Edmonds Shoe Company, Milwaukee Wis. Leather shoes. 174,514; Apr. 17.
Empire Tire & Rubber Corporation, Trenton, N. J. Pneumatic vehicle tires. 164,223; Apr. 17.
Enterprise Paint Mfg. Co., Chicago, Ill. Paints, varnishes and paint enamels. 174,827; Apr. 17.
Enterprise Paint Manufacturing Co., Chicago, Ill Ready-mixed and paste paints, varnishes, and paint enamels. 174,829; Apr. 17.
Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. 168,477; Apr. 17.
Erste Karlsruher Parfümerie- & Toilettenseifen-Fabrik, F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung, Vienna, Austria. Perfume, toilet water, toilet powder, hair tonic, shampoo, etc. 173,708; Apr. 17.
Evonol Laboratories. (See Stemmler, Theodore W.)
Fisher, William H., doing business as Fisher Manufacturing Co., Brockton, Mass. Mops and mop handles. 175,855; Apr. 17.
Fitchburg Machine Works. (See Meteor Mixing Machine Co., assignor.)
Flexible Steel Lacing Company, Chicago, Ill. Flexible or hinged belt fasteners. 167,870; Apr. 17.
Fontana Food Products Company, San Francisco, Calif. Macaroni products, canned fruits, vegetables, and fish, evaporated milk, etc. 172,872; Apr. 17.
Food Products Co., San Francisco, Calif. Canned figs. 172,873; Apr. 17.
Forst Products Co., Inc., New Orleans, La. Beverage sold as a soft drink and flavoring sirups, etc., used in preparation of the same. 176,172; Apr. 17.
Fruit Belt Preserving Company, East Williamson, N. Y. Canned fruits and vegetables. 172,984; Apr. 17.
Fuchs, Joseph J., doing business as Tourists Pride Mfg. Co., Minneapolis, Minn. Inner-tube repair patches. 132,601; Apr. 17.
Garnet, George H., doing business as The George H. Garnet Company, Allentown, Pa. Ice cream inclosed in pastry. 161,251; Apr. 17.
Gellman Wrench Corporation, The, Chicago, Ill. Wrenches. 174,896; Apr. 17.
George Close Co., The, Cambridge, Mass. Candy. 172,516–7; Apr. 17.
Glickman, Abraham E., Brooklyn, N. Y. Hair tonic. 171,017; Apr. 17.
Goldthorp, Henry, Company, Inc., Philadelphia, Pa. Upholstery and drapery fabrics. 170,063; Apr. 17.
Gomi, Tadashi D., New York, N. Y. Medicine for tuberculosis, pneumonia, and pleurisy. 173,131; Apr. 17.
Goodman American Ice Cream Company, Chicago, Ill. Ice cream. 169,710; Apr. 17.
Goodyear Rubber Company, Middletown, Conn. Rubber boots and shoes and arctic overshoes. 176,338; Apr. 17.
Gotham Corporation, The, New York, N. Y. Laxatives and corrective preparations. 173,928; Apr. 17.
Griswold Manufacturing Company, The, Erie, Pa. Dutch ovens. 172,156; Apr. 17.
Gump, B. F., Co., Chicago, Ill. Milling machinery, bolting reels, feed screens, etc. 124,986; Apr. 17.
Gund, George, doing business as Hygienic Coffee Company, Cleveland, Ohio. Coffee. 172,529; Apr. 17.
Halligan Candy Company, Davenport, Iowa. Candy. 173,043; Apr. 17.
Harlequin Parfumerie Compagnie, New York, N. Y. Bottles or vials or packages or cases in which there is inclosed or contained either perfume or toilet water, etc. 171,167; Apr. 17.
Harrison, Sarah A., Omaha, Nebr. Sanitary-napkin holders. 175,491; Apr. 17.
Havens, Horace E., Chicago, Ill. Salad and cooking oil. 172,738; Apr. 17.
Hawthorne Paper Company, Kalamazoo, Mich. Writing paper. 156,447; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Nickel and alloys of nickel in ingots, sheets, and wire. 172,701; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Metals used for electrical purposes. 172,702; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Nickel steel in the form of plates, sheets, wire, etc. 172,703; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Nickel-chrome alloy. 172,704–6; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Nickel and manganese alloy. 172,707; Apr. 17.
Henry Wiggin & Company Limited, Parade, Birmingham, England. Nickel-copper alloys. 172,708; Apr. 17.
Hershey Chocolate Company of New York, Inc., New York, N. Y. Sugar-coated raisins. 158,774; Apr. 17.
H. K. H. Silk Co., The, Watertown, Conn. Pure and artificial silk threads. 173,828; Apr. 17.
Hood, H. P., & Sons, Inc., Boston, Mass. Coated frozen confections. 159,360; Apr. 17.
Horstmann, Wm. H., Company, Philadelphia, Pa. Yarn. 176,999; Apr. 17.
H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Zeolites and base-exchange water-softening agents. 173,888; Apr. 17.
Hugg'me Company, New York, N. Y. Face powder. 170,453; Apr. 17.
Hygienic Coffee Co. (See Gund, George.)
Ideal Tire and Rubber Company, The, Cleveland, Ohio. Vehicle tires, inner tubes, tire casings and shoes, and repair parts. 155,968; Apr. 17.
International Harvester Company, Chicago, Ill. Tractors and attachments and parts thereof. 173,649; Apr. 17.
Jaeger, C., Distributing Co., New York, N. Y. Facial cream. 170,388; Apr. 17.
Joannes Bros. Co., Green Bay, Wis. Tea. 172,743; Apr. 17.
Joannes Bros. Co., Green Bay, Wis. Canned vegetables and fish, molasses, and fruit preserves. 172,745; Apr. 17.
John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, or applying various liquids. 175,584; Apr. 17.
Johns-Manville Incorporated, New York, N. Y. Piston-rod packing. 170,294; Apr. 17.
Johnson Pickett Rope Co., The, Manila, P. I. Rope and twine of all kinds. 164,920–1; Apr. 17.
Kappeler, Charles, St. Paul, Minn. Cow-hoof trimmers. 174,396; Apr. 17.
Keystone Varnish Company, Brooklyn, N. Y. Preparation used in the manufacture of floor paints, enamels, etc. 176,351; Apr. 17.
Kimbalton Lime Company, Inc., Kimbalton, Va. Lime. 170,822; Apr. 17.
Kirsch, H., & Co., Brooklyn, N. Y. Ginger ale, sarsaparilla, cream soda, celery, etc., beverages, and sirups for making the same. 175,400; Apr. 17.
Kolbe Paint Company, The, Cincinnati, Ohio. Ready-mixed paints, house paints, paint enamels, varnishes, etc. 175,358; Apr. 17.
Kurtz Brothers, Philadelphia, Pa. Macaroni and olive oil. 167,002; Apr. 17.
Leather Products & Finishing Co., Los Angeles, Calif. Ring books, leather coin pouches, leather key cases, and special leather letter covers. 173,902; Apr. 17.
Little, A. E., Company, Lynn, Mass. Boots and shoes. 175,254; Apr. 17.
Louisville Coffee Company, The, Louisville, Ky. Coffee. 168,080; Apr. 17.
Lurye, B., & Co. (See Lurye, Benjamin.)
Lurye, Benjamin, doing business as B. Lurye & Co., Chicago, Ill. Hammers, hatchets, shovels, screw drivers, and chisels. 171,226; Apr. 17.
McCarthy, John W., jr., Inc., San Francisco, Calif. Canned fruits and vegetables. 163,341; Apr. 17.
MacGillivray, Dr. D. D., Pine Village, Ind. Goiter ointment. 172,278; Apr. 17.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 174,020; Apr. 17.
Maple Grove Candies, Inc., St. Johnsbury, Vt. Maple cream, sirup, sugar, and honey, sauce for ice cream. 154,522; Apr. 17.
Markt & Hammacher Company, New York, N. Y. Carpenters' tools, agricultural implements. 172,233; Apr. 17.
Melanson Shoe Company, Lynn, Mass. Leather shoes. 175,259; Apr. 17.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Meteor Mixing Machine Co., Inc., New York, N. Y., assignor to Fitchburg Machine Works, Fitchburg, Mass. Food-mixing machines and parts thereof. 170,441; Apr. 17.
Mitchell, Robert G., doing business as The Agrippa Company, New York, N. Y. Portable metallic holders for beverage containers. 161,733; Apr. 17.
Monroe, John W., Lima, Ohio. Wood rolling partitions in buildings, for doors, wardrobes, etc. 166,705; Apr. 17.
Motor Schopp, The. (See Schopp, Charles J.)
Mountain State Glass Co., Mannington, W. Va. Window glass. 177,139; Apr. 17.
National Lumber Manufacturers Association, Washington, D. C. Lumber. 174,478–9; Apr. 17.
New England Confectionery Company, Boston, Mass. Candy. 154,820; Apr. 17.
New England Confectionery Company, Boston, Mass. Candy. 154,839; Apr. 17.
Non-Crush Fruit Guard Company. (See Satake, Shuzo.)
Nutting, Walter M., doing business as Nutting Truck Company, Faribault, Minn. Floor trucks. 173,240; Apr. 17.
Oklahoma Publishing Company, The, Oklahoma, Okla. Daily newspaper. 175,152; Apr. 17.
Oklahoma Publishing Company, The, Oklahoma, Okla. Daily newspaper. 174,973; Apr. 17.
Olson Coffee Co., Omaha, Nebr. Coffee, tea, spices, flavoring extracts. 168,546; Apr. 17.
Ostra Corporation, The, New York, N. Y. Sprayers for medicinal use. 172,954; Apr. 17.
Page Steel & Wire Company, Adrian, Mich., and Bridgeport, Conn. Base-metal wire. 162,646; Apr. 17.
Parfumerie Caron. (See Daltroff, E., & Cie.)
Pearce, C. R., Company, The, Pittsburgh, Pa. Candy confections and sugar-coated fruits. 173,143–4; Apr. 17.
Perfumeria Gal, Sociedad Anonima, Madrid, Spain. Toilet powders and handkerchief extracts. 168,418; Apr. 17.
Petroleum Products Co., San Francisco, Calif. Lubricating oils and greases, gasoline, motor spirit, etc. 173,904; Apr. 17.
Pfyffer, Siegfried, Zurich, Switzerland. Metallic soldering alloys. 173,053; Apr. 17.
Pinnacle Coal & Coke Company, Dana, W. Va., and Easton, Pa. Coal and coke. 144,043; Apr. 17.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints. 175,518; Apr. 17.
Post-Time Publishing Co., Inc., New York, N. Y. Triweekly and daily publication. 175,323; Apr. 17.
Process Chemicals Incorporated, New York, N. Y. Insecticide and mothproofing composition. 168,489; Apr. 17.
Progress Paint Mfg. Co., Louisville, Ky. Wagon paint, fiber roof paint, varnish, paint enamel, etc. 176,043; Apr. 17.
Rabinow, Harry L., New York, N. Y. Hair salve and pomade. 172,058; Apr. 17.
Raymond Bag Co., The, Middletown, Ohio. Paper receptacles. 172,687; Apr. 17.
Reeder, Oliver, & Son, Inc., Proprietors of the Baltimore Copper Paint Company, Baltimore, Md. Paints and varnishes. 173,006; Apr. 17.
Reynolds, James R., doing business as Soldiers Bonus Products Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in the preparation of same. 176,217; Apr. 17.
Rockford Wholesale Grocery Co., Rockford, Ill. Coffee. 169,263; Apr. 17.
Romer Axe and Tool Company, Dunkirk, N. Y. Tools. 155,070; Apr. 17.
Royal Candy Company, St. Louis, Mo. Chocolates and nut candy. 153,951; Apr. 17.
Satake, Shuzo, doing business as Non-Crush Fruit Guard Company, Sacramento, Calif. Cardboard to be placed in fruit boxes to prevent crushing of the fruit. 169,328; Apr. 17.
Schopp, Charles J., doing business as The Motor Schopp, St. Louis, Mo. Chemical carbon destroyer. 172,953; Apr. 17.
Shields, Burton T., doing business as Shields and Hopkins Company, Indianapolis, Ind. Periodical publications. 174,927; Apr. 17.
Sheratone Products Corporation, New York, N. Y. Finishing and polishing materials in the nature of a varnish. 173,678; Apr. 17.
Sherwin-William Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, etc. 174,413; Apr. 17.
Society Club Beverage Corporation, Newark, N. J. Beverages sold as soft drinks and sirups for making the same. 175,411; Apr. 17.
Soldiers Bonus Products Co. (See Reynolds, James R.)
Squire and Co. Birmingham Limited, Stirchley, Birmingham, England. Cough mixture for human use. 172,776; Apr. 17.
Standard Paper Manufacturing Co., Richmond, Va. Blotting paper. 174,703–4; Apr. 17.
St. Louis Surfacer & Paint Company, St. Louis, Mo. Dry, paste, and ready-mixed paints and varnishes. 172,777; Apr. 17.
Stemmler, Theodore W., doing business as Evonol Laboratories, New York, N. Y. Preparation for use in the treatment of inflamed eyes. 171,576; Apr. 17.
Stemmler, Theodore W., doing business as Evonol Laboratories, New York, N. Y. Preparation for inflammatory conditions. 171,575; Apr. 17.
Stephens, A. J., Rubber Co., Kansas City, Mo. Outer tires or coverings for pneumatic-tire casings. 173,306; Apr. 17.
St. Regis Paper Co., Watertown, N. Y. Fiber shipping cases. 175,445; Apr. 17.
Stout, A. L., & Co., Indianapolis, Ind., and New York, N. Y. Piston rods. 174,345; Apr. 17.
Suffern, Robert A., New York, N. Y. Unbleached sheetings and drills. 157,109; Apr. 17.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. 174,868; Apr. 17.
Sussfeld, Lorsch & Schimmel, New York, N. Y. Ophthalmic-lens blanks. 176,766; Apr. 17.
Sussfeld, Lorsch & Schimmel, New York, N. Y. Ophthalmic lenses and blanks. 176,767; Apr. 17.
Symbolox Box Co. (See Conley, Frederick T.)
Taintor Company, The, New York, N. Y. Whiting. 175,171; Apr. 17.
Templeton, James, & Son, Ltd., Ayr, Scotland. Knitting wool. 174,870; Apr. 17.
Toledo Scale Company, Jersey City, N. J., and Toledo, Ohio. Page in a publication. 174,115; Apr. 17.
Toledo Steel Products Co., The, Toledo, Ohio. Poppet valves. 168,091; Apr. 17.
Tourists Pride Mfg. Co. (See Fuchs, Joseph J.)
Union Cutlery Co., Olean, N. Y. Razors. 175,033; Apr. 17.
United States Products Corporation, San Jose, Calif. Canned fruits, vegetables, and fish. 168,391; Apr. 17.
Victor-American Fuel Company, The, Portland, Me., and Denver, Colo. Coal. 164,474; Apr. 17.
Valentine & Bunker, New York, N. Y. Textile fabrics. 175,630; Apr. 17.
Walter Reed General Hospital, Washington, D. C. Weekly periodical. 174,189; Apr. 17.
Washington Dehydrated Food Co., Yakima, Wash. Dehydrated apples. 172,919; Apr. 17.
Watson, Lee M., Boston, Mass. Chemical compounds, etc., for use in producing varying colors in burning fuel. 157,396–7; Apr. 17.
Weber Milk Company, Indianapolis, Ind. Malted chocolate milk drink. 165,320; Apr. 17.
Weiner Brother, Inc., New York, N. Y. Cotton piece goods. 174,550; Apr. 17.
Westfield Manufacturing Company, Westfield, Mass. Baby carriages. 171,051; Apr. 17.
Wetherill, Samuel P., jr., Philadelphia, Pa. Gas-generating means. 170,848; Apr. 17.
Weyenberg Shoe Mfg. Co., Milwaukee, Wis. Boots and shoes made wholly or in part of leather. 176,387; Apr. 17.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, etc. 173,114; Apr. 17.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, etc. 173,116; Apr. 17.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, etc. 173,120–2; Apr. 17.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, etc. 175,827; Apr. 17.
Wiggin, Henry, & Company Limited, Parade, Birmingham, England. Nickel-chrome-steel alloy. 172,709; Apr. 17.
Wiggin, Henry, & Company Limited, Parade, Birmingham, England. Resistance wires of copper, nickel, iron, or of combinations or alloys of these metals. 170,345; Apr. 17.
Williams, Percy B. T., Philadelphia, Pa. Toothbrushes. 176,389–91; Apr. 17.
Windmill Food Products Company, New York, N. Y. French dressing. 170,171; Apr. 17.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antidote for poison, and remedies for blood and liver diseases. Anti-Poison Medicine Co. 22,994; renewed May 9, 1923.
Battery jars, panels, covers, and vents, plate separators, etc. American Hard Rubber Company. 166,855; Apr. 17; Serial No. 164,214; published Aug. 29, 1922.
Beer. Lager. J. Everard. 22,481; renewed Feb. 14, 1923.
Beverage suitable as a coffee substitute. G. Weinstein. 166,893; Apr. 17; Serial No. 165,904; published Feb. 6, 1923.
Bonnets, hats, and caps. L. R. Stampher. 166,820; Apr. 17; Serial No. 166,750; published Jan. 9, 1923.
Boots and shoes. Stetson Shoe Company. 166,976; Apr. 17.
Boots and shoes, Kid, canvas, and leather. Juvenile Shoe Corporation of America. 166,835; Apr. 17; Serial No. 170,200; published Jan. 23, 1923.
Bottles, Glass. Owens Bottle Company. 166,961; Apr. 17.
Braces and suspenders, Shoulder. Knickerbocker Brace Company. 23,427; renewed Aug. 1, 1923.
Bread. Ward Baking Company. 166,921; Apr. 17; Serial No. 161,662; published Dec. 12, 1922.
Bricks and furnace, kiln, burner, and other refractory parts made of fire-brick material, Fire. New Castle Refractories Co. 166,969; Apr. 17.
Butter, eggs, cheese. Kurtin & Kurtin. 166,878; Apr. 17; Serial No. 155,410; published Feb. 6, 1923.
Candies. H. Jevne Co. 166,896; Apr. 17; Serial No. 165,685; published Jan. 30, 1923.
Candies. J. Mendell. 166,879; Apr. 17; Serial No. 153,610; published Mar. 14, 1922.
Candies. S. E. Rathburn. 166,885; Apr. 17; Serial No. 167,751; published Feb. 6, 1923.
Candies. H. J. Williamson. 166,929; Apr. 17; Serial No. 167,857; published Feb. 6, 1923.
Candies and chocolates. Loomis-Woodward Co. 166,875; Apr. 17; Serial No. 158,096; published Jan. 30, 1923.
Candy. Fred W. Amend Co. 166,889; Apr. 17; Serial No. 167,286; published Feb. 6, 1923.
Candy. M. K. Anderson. 166,887; Apr. 17; Serial No. 167,446; published Feb. 6, 1923.
Candy. A. Bonomo. 166,880; Apr. 17; Serial No. 151,306; published Feb. 6, 1923.
Candy bars. M. Economos. 166,902; Apr. 17; Serial No. 164,310; published Feb. 6, 1923.
Canned fruits. J. C. Ainsley Packing Co. 166,930; Apr. 17; Serial No. 167,111; published Feb. 6, 1923.
Canned fruits. Maillard & Schmiedell. 166,888; Apr. 17; Serial No. 167,312; published Feb. 6, 1923.
Canned fruits and vegetables. Kings County Packing Co. 166,933; Apr. 17; Serial No. 168,041; published Feb. 6, 1923.
Canned fruits and vegetables. F. B. Nenhoff. 167,005-6; Apr. 17.
Canned salmon. G. P. Halferty. 166,881; Apr. 17; Serial No. 150,677; published Jan. 17, 1922.
Canned salmon. G. P. Halferty. 166,882; Apr. 17; Serial No. 150,674; published Jan. 17, 1922.
Canned salmon. Thlinket Packing Company. 166,884; Apr. 17; Serial No. 113,333; published Feb. 6, 1923.
Cantaloupes and apples, Fresh. G. W. H. Wagner & Sons. 166,900; Apr. 17; Serial No. 164,791; published Feb. 6, 1923.
Caps. H. L. Jacobs. 166,809; Apr. 17; Serial No. 167,877; published Jan. 9, 1923.
Caps, Adjustable. Town Talk M'f'g Co. 166,970; Apr. 17.
Carburetors. Wagner Research Society. 166,842; Apr. 17; Serial No. 168,909; published Jan. 23, 1923.
Cards, Playing. United States Printing Co. 22,580; renewed Mar. 7, 1923.
Cards, Playing. United States Printing Co. 22,582; renewed Mar. 7, 1923.
Cases and traveling bags, Coat and suit. Peerless Traveling Goods Co. 166,960; Apr. 17.
Castings, Gray-iron. A. F. Meehan. 166,856; Apr. 17; Serial No. 164,177; published Jan. 6, 1923.
Chemical compound to be used in connection with an aluminum plate for cleaning and polishing solid and plated silverware. Quaker Soap Company. 166,989; Apr. 17.
Chocolates and cream walnuts. E. P. Lewis. 166,994; Apr. 17.
Chocolates and other bonbons. Walter M. Lowney Co. 22,591; renewed Mar. 7, 1923.
Chocolates, cocoa, chocolate, and candies. J. G. McDonald Chocolate Co. 166,865; Apr. 17; Serial No. 163,589; published Feb. 6, 1923.
Chocolates, cocoa, chocolate, and candies. J. G. McDonald Chocolate Co. 166,905; Apr. 17; Serial No. 163,591; published Feb. 6, 1923.

Churns, Butter. Standard Vibrating Churn Company. 166,807; Apr. 17; Serial No. 168,176; published Jan. 23, 1923.
Cigar and cigarette cases. Marshall Field & Company. 166,851; Apr. 17; Serial No. 165,366; published Jan. 30, 1923.
Cigarettes. L. L. Post. 166,923; Apr. 17; Serial No. 155,446; published July 25, 1922.
Cigarettes, Machinery used in the manufacture of. Comas Cigarette Machine Company. 166,803; Apr. 17; Serial No. 168,457; published Jan. 23, 1923.
Coffee. Santander Coffee Co. 166,872; Apr. 17; Serial No. 162,317; published Feb. 6, 1923.
Coffee. M. E. Swing Company. 166,890; Apr. 17; Serial No. 167,104; published Feb. 6, 1923.
Collars for personal wear. E. I. du Pont de Nemours & Company. 166,787; Apr. 17; Serial No. 160,053; published Jan. 9, 1923.
Coloring and conserving means for leather, iron, and wood. Chromol Manufactory of Chemical Products, Inc. 166,790; Apr. 17. Serial No. 138,847; published May 9, 1922.
Confection, Laxative. M. Morvillo. 166,795; Apr. 17. Serial No. 152,764; published Jan. 23, 1923.
Corsets, waists, brassières, and girdle brassières. Ferris Bros. Co., 166,861; Apr. 17; Serial No. 163,576; published Jan. 9, 1923.
Cotton ducks and drills in the piece, Unbleached, bleached, dyed, and colored. John Boyle & Company. 167,001; Apr. 17.
Cotton piece goods. Henry Glass & Co. 166,955; Apr. 17; Serial No. 170,580; published Jan. 30, 1923.
Cotton piece goods. William Hollins & Co. 166,907; Apr. 17; Serial No. 170,193; published Jan. 30, 1923.
Cotton, woolen, and half-wool piece goods. H. A. John. 166,956; Apr. 17; Serial No. 170,389; published Jan. 23, 1923.
Cotton, woolen, and silk piece goods. W. R. Grace & Co. 166,826; Apr. 17; Serial No. 171,269; published Feb. 6, 1923.
Crêpe printed, woven, and in plain colors, Cotton. Consolidated Textile Corporation. 166,954; Apr. 17; Serial No. 170,808; published Jan. 30, 1923.
Crushers, shredders, breakers, pulverizers, and grinders. Gruendler Patent Crusher & Pulverizer Co. 166,850; Apr. 17; Serial No. 165,372; published Jan. 23, 1923.
Cutlery. Edward Weck & Son, Inc. 166,782; Apr. 17; Serial No. 161,471; published Dec. 5, 1922.
Dyspeptic compound. H. A. Gauthier. 166,973; Apr. 17.
Drills, milling cutters, and reamers, Twist. American Machine Products Co. 166,786; Apr. 17; Serial No. 160,106; published Sept. 12, 1922.
Duplicating machines and parts thereof. A. B. Dick Company. 166,808; Apr. 17; Serial No. 167,937; published Jan. 23, 1923.
Egg beaters and cream whip. Metal Goods Manufacturing Co. 166,818; Apr. 17; Serial No. 167,050; published Jan. 9, 1923.
Embrocation or liniment. E. Shinbaum. 166,876; Apr. 17; Serial No. 156,827; published Jan. 9, 1923.
Engines, Humidifying devices for internal-combustion. J. A. Semple. 166,936; Apr. 17; Serial No. 169,377; published Jan. 9, 1923.
Engines, Internal-combustion. Gray Motor Corporation. 166,877; Apr. 17; Serial No. 156,489; published Nov. 28, 1922.
Envelope blanks, Stationery. Workman Manufacturing Company. 166,825; Apr. 17; Serial No. 171,882; published Feb. 6, 1923.
Envelopes. Sewell-Clapp-Envelopes. 166,938; Apr. 17; Serial No. 171,288; published Jan. 16, 1923.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 166,947; Apr. 17; Serial No. 171,894; published Jan. 30, 1923.
Fabrics, Textile. Tingue Manufacturing Company. 166,910; Apr. 17; Serial No. 170,102; published Jan. 30, 1923.
Farriers', blacksmiths', and cobblers' tools, etc. Champion Tool Company. 166,796; Apr. 17; Serial No. 152,419; published Aug. 1, 1922.
Fertilizer. J. F. Laucks, Inc. 166,968; Apr. 17.
Files and rasps, handsaws, hack-saw blades, etc. Sanderson Brothers & Newbould, Limited. 166,854; Apr. 17; Serial No. 164,276; published Jan. 16, 1923.
Flatware of base metal, Table. G. Hammesfahr. 166,848; Apr. 17; Serial No. 165,951; published Jan. 23, 1923.
Floors, furniture, and woodwork, Cleaning and renewing the finish of. Sherwin-Williams Company. 166,963; Apr. 17.
Flour, Graham or whole-wheat. Wm. Pollock Milling & Elevator Co. 166,983; Apr. 17.
Flour, Self-rising wheat. Sauers Milling Company. 167,009; Apr. 17.

Flour, Wheat. Galban, Lobo Co., S. A. 166,984; Apr. 17.
Flour, Wheat. Sauers Milling Company. 166,995; Apr. 17.
Flour, Wheat. Star and Crescent Milling Company. 23,262; renewed June 27, 1923.
Flour, Wheat. Thompson Milling Co. 166,922; Apr. 17; Serial No. 159,543; published Mar. 20, 1923.
Food, Cereal breakfast. J. J. Beshere. 166,917; Apr. 17; Serial No. 164,856; published Jan. 30, 1923.
Food for plants, Germ. H. Vaisberg. 166,974; Apr. 17.
Foods, Cereal breakfast. Ward Baking Co. 166,920; Apr. 17; Serial No. 164,853; published Jan. 30, 1923.
Garters. A. F. Brandeau. 166,805-6; Apr. 17; Serial Nos. 168,199-200; published Jan. 9, 1923.
Gas heaters. London Lightingwares Corporation. 167,007; Apr. 17.
Gasoline savers. F. A. Diodato. 166,840; Apr. 17; Serial No. 169,011; published Jan. 9, 1923.
Gear wheels and gear-wheel blanks, Nonmetallic. General Electric Company. 166,783; Apr. 17; Serial No. 161,181; published Jan. 23, 1923.
Ginger ale. H. L. Millis. 19,634; renewed June 2, 1921.
Grape juice. Wirth-Concordade Company. 166,837; Apr. 17; Serial No. 169,662; published Jan. 30, 1923.
Gum, Chewing. Dudley Gum Company. 167,002; Apr. 17.
Hair dressing. M. L. Moton. 166,911; Apr. 17; Serial No. 169,067; published Jan. 9, 1923.
Hair lotion. M. A. Ashkar. 166,966; Apr. 17.
Hair net. F. G. Mitchell. 166,950; Apr. 17. Serial No. 171,855; published Jan. 23, 1923.
Hair nets. Eastern Hair Net Trading Co. 166,944; Apr. 17; Serial No. 172,267; published Jan. 30, 1923.
Hair nets. L. H. Lewis Company. 166,952; Apr. 17; Serial No. 171,425; published Jan. 30, 1923.
Hair nets. West Electric Hair Curler Company. 166,811; Apr. 17; Serial No. 167,591; published Jan. 23, 1923.
Hams, bacon, sausage, lard, and boiled hams. Sullivan Packing Company. 167,008; Apr. 17.
Hams, sugar-cured meats, lard, pork sausage. Boise Butcher Company. 166,792; Apr. 17; Serial No. 156,775; published Jan. 30, 1923.
Handkerchiefs. Cluett, Peabody & Company. 166,951; Apr. 17; Serial No. 171,787; published Jan. 30, 1923.
Hats and caps, Men's and boys'. Rogers Peet Company. 166,839; Apr. 17; Serial No. 169,084; published Jan. 9, 1923.
Hats, Ladies'. Cage Brothers & Company. 166,817; Apr. 17; Serial No. 167,124; published Jan. 9, 1923.
Hats, Ladies' trimmed and tailored. E. Uhry, 166,815; Apr. 17; Serial No. 167,276; published Jan. 9, 1923.
Hats, Men's. G. B. Borsalino Fu Lazzaro & C. 166,864; Apr. 17; Serial No. 163,136; published Jan. 9, 1923.
Hats, Men's and boys'. Greater N. Y. Hat & Cap Works. 166,846; Apr. 17; Serial No. 166,229; published Jan. 9, 1923.
Honey. J. A. Warnecke. 166,886; Apr. 17; Serial No. 167,665; published Feb. 6, 1923.
Hosiery. Paramount Knitting Company. 166,977; Apr. 17.
Ice cream. Erie County Milk Association. 166,816; Apr. 17; Serial No. 167,237; published Feb. 6, 1923.
Ice-cream bar, Chocolate-covered. Cairo Food Products Company. 166,867; Apr. 17; Serial No. 163,327; published Dec. 19, 1922.
Index guides, record cards, card alphabets, and folders, Blank. Wabash Cabinet Co. 166,982; Apr. 17.
Insect and vermin destroying preparations. Adolph Isaacsen & Son. 23,498; renewed Aug. 15, 1923.
Insulators, Electric. A. & J. M. Anderson. 22,148; renewed Dec. 6, 1922.
Intravenous solutions, Iron, arsenic, and phosphorus, digitalis, etc. D. Loeser. 166,981; Apr. 17.
Jams and fruit preserves. N. L. Bennett. 166,897; Apr. 17; Serial No. 165,478; published Feb. 6, 1923.
Knitted caps. Broadway Knitting Mills. 166,847; Apr. 17; Serial No. 165,984; published Jan. 9, 1923.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 166,869; Apr. 17; Serial No. 163,254; published Jan. 30, 1923.
Knives and scissors. J. Friedrich. 166,822; Apr. 17; Serial No. 166,444; published Jan. 23, 1923.
Lard and butter, Substitute for. Armour & Co. 23,291; renewed July 4, 1923.
Linen and cotton fabrics, in the piece, tablecloths, napkins, handkerchiefs, etc. James McCutcheon & Company. 166,915; Apr. 17; Serial No. 166,391; published Jan. 30, 1923.
Liniment. R. H. Wagner. 23,562; renewed Aug. 29, 1923.
Linoleum flooring. David E. Kennedy, Inc. 166,996; Apr. 17.
Liquids and semisolids. Implements for weighing. A. H. Clarke. 166,849; Apr. 17; Serial No. 165,662; published Jan. 23, 1923.
Locomotives and railway and trolley cars, Draft gear for. Standard Coupler Company. 166,959; Apr. 17.
Macaroni and spaghetti. Red Star Macaroni Co. 166,891; Apr. 17; Serial No. 167,101; published Jan. 23, 1923.
Macaroni, spaghetti, vermicelli, etc. Union Macaroni Company. 166,866; Apr. 17; Serial No. 163,554; published Jan. 30, 1923.
Meat extracts. Fred Walker & Co. Proprietary Limited. 166,873; Apr. 17; Serial No. 162,087; published Feb. 6, 1923.
Medical and disinfecting compounds and apparatus, Certain. Vapo-Cresolene Company. 23,441; renewed Aug. 1, 1923.
Medicated food for convalescents and invalids. Vita Food Company. 166,925; Apr. 17; Serial No. 137,549; published Dec. 12, 1922.
Medical preparation for diabetes. H. R. Harrower. 167,004; Apr. 17.
Metals and alloys, Babbitt, etc. Magnolia Metal Company. 166,941; Apr. 17; Serial No. 168,929; published Jan. 9, 1923.
Milk, Fermented. Malone Dairy Co. 166,895; Apr. 17; Serial No. 165,804; published Jan. 30, 1923.
Mustard, tartar, and mayonnaise dressings. A. Julien. 166,901; Apr. 17; Serial No. 164,595; published Feb. 6, 1923.
Nail strips, Metallic. McKay Metallic Fastening Association. 23,104; renewed May 23, 1923.
Nainsook, sheets, diaper cloth, quilts, and long cloth. Meyer's Company. 166,916; Apr. 17; Serial No. 166,238; published Jan. 30, 1923.
Nipples. V. Loewenberg. 166,828; Apr. 27; Serial No. 170,918; published Jan. 30, 1923.
Nuts and bolts. Vislok Limited. 166,814; Apr. 17; Serial No. 167,438; published Jan. 16, 1923.
Nuts in the shell and shelled, salted and candied nuts, and glace fruit candies. Charles S. Cash, Inc. 166,904; Apr. 17; Serial No. 163,613; published Feb. 6, 1923.
Oars, handspikes, and capstan bars. De Grauw, Aymar & Co. 21,081; renewed May 10, 1922.
Oilstones and whetstones. Pike Manufacturing Company. 23,448; renewed Aug. 1, 1923.
Oils and greases. E. F. Hartzell. 166,791; Apr. 17; Serial No. 157,667; published Jan. 30, 1923.
Oils, Lubricating. Victor Oil Company. 166,801; Apr. 17; Serial No. 129,916; published Feb. 14, 1922.
Packing for machinery. Garlock Packing Co. 23,420; renewed July 25, 1923.
Paints, Ready-mixed wall. Rasmussen & Co. 166,831; Apr. 17; Serial No. 170,695; published Jan. 30, 1923.
Paper. F. C. Strype. 166,934-5; Apr. 17; Serial Nos. 168,385-6; published Jan. 16, 1923.
Paper, Bond. Weber Lithographing Co. 166,824; Apr. 17; Serial No. 172,922; published Feb. 6, 1923.
Paper, Cover. Chemical Paper Manufacturing Co. 166,883; Apr. 17; Serial No. 142,885; published Jan. 16, 1923.
Paper, Cover. Peninsular Paper Company. 166,926-8; Apr. 17; Serial Nos. 172,845-7; published Jan. 16, 1923.
Paper, Crêpe. Tissue Co. 166,942; Apr. 17; Serial No. 172,066; published Jan. 16, 1923.
Paper illustration stock. Hurlock Bros. Company. 166,997-8; Apr. 17.
Paper, Wrapping. Brown Company. 166,931-2; Apr. 17. Serial Nos. 168,021-2; published Jan. 16, 1923.
Paper, Wrapping. Seinsheimer Paper Company. 166,800; Apr. 17; Serial No. 138,110; published Feb. 1, 1921.
Paper, Writing. Geo. D. Barnard Stationery Company. 166,979; Apr. 17.
Paper, Writing. Fox River Paper Company. 166,943; Apr. 17; Serial No. 172,328; published Jan. 16, 1923.
Pasteurizing vats, coolers, etc. Cherry-Bassett-Winner Company. 166,859; Apr. 17; Serial No. 163,740; published Jan. 23, 1923.
Peanut butter and salted peanuts. G. Q. Townsend. 166,903; Apr. 17; Serial No. 164,280; published Feb. 6, 1923.
Pencil leads and mechanical pencils holding such leads. H. E Golber. 166,892; Apr. 17; Serial No. 165,949; published Sept. 19, 1922.
Pens and pencils. Hutcheon Brothers. 166,978; Apr. 17.
Pens, Fountain. J. J. Heller. 166,874; Apr. 17; Serial No. 159,027; published Jan. 23, 1923.
Pepsin pancreatin and rennet and their compounds. Swift & Company. 22,539; renewed Feb. 28, 1923.
Perfume, toilet water, and face lotion. H. Rigaud. 166,971; Apr. 17.
Perfume, toilet water, face powder, rouge, face creams, etc. H. Rigaud. 166,972; Apr. 17.
Perfumery and perfumed soap. J. L. Grossmith. 23,025; renewed May 16, 1923.
Phosphate, general mixed fertilizers, etc. Potassium. Industrial Chemical & Fertilizer Company. 166,823; Apr. 17; Serial No. 173,831; published Feb. 13, 1923.
Pile fabrics in the piece. Sidney Blumenthal & Co. 166,941; Apr. 17; Serial No. 171,895; published Jan. 30, 1923.
Pipe and sink opener and cleaner, Waste and drain. B. Heller & Company. 166,958; Apr. 17.
Pipe joints, Compound for sealing metallic. Staso Milling Company. 166,991; Apr. 17.
Pipes, Corncob tobacco-smoking. Hirsch & Bendheim. 166,789; Apr. 17; Serial No. 159,313; published June 13, 1922.
Pipes for power water-inlet piping, Nonferrous. Société Marcel Bassot & Co. 166,793; Apr. 17; Serial No. 156,758; published Jan. 16, 1923.
Piston pins. Milwaukee Screw Products Co. 166,844; Apr. 17; Serial No. 168,778; published Jan. 23, 1923.

Piston rings. Welever Piston Ring Company. 167,003; Apr. 17.
Pistons. Kant-Skore Piston Company. 166,980; Apr. 17.
Plumbing, steam-fitting, and hardware supplies. Holbrook, Merrill & Stetson. 166,788; Apr. 17; Serial No. 150,531; published Jan. 9, 1923.
Pocketknives, penknives, dirks, razors, and ink erasers. Novelty Cutlery Company. 166,843; Apr. 17; Serial No. 168,781; published Jan. 23, 1923.
Polish or blacking, Stove. Morse Bros. 22,622; renewed Mar. 7, 1923.
Pop corn, Shelled. Albert Dickinson Company. 23,250; renewed June 27, 1923.
Potato chips. J. Zee. 166,898; Apr. 17; Serial No. 165,107; published Feb. 6, 1923.
Poultry, Dressed. Swift and Company. 166,899; Apr. 17; Serial No. 165,096; published Jan. 30, 1923.
Powders and dentifrice, Toilet. G. B. Evans. 23,445; renewed Aug. 1, 1923.
Printing presses and parts thereof. Chandler & Price Company. 166,810; Apr. 17; Serial No. 167,801; published Jan. 23, 1923.
Printing presses, Perfecting. Duplex Printing Press Company. 23,192; renewed June 6, 1923.
Pumping equipment and water systems. Fort Wayne Engineering & Manufacturing Co. 166,819; Apr. 17; Serial No. 166,942; published Jan. 23, 1923.
Pumps and parts therefor, Air. Coleman Lamp Co. 166,962; Apr. 17.
Railings, brackets, brads, etc., Angle joints for. John Kroder and Henry Reubel Company. 166,860; Apr. 17; Serial No. 163,584; published Jan. 23, 1923.
Raisins. J. T. Wetherald. 166,813; Apr. 17; Serial No. 167,440; published Feb. 6, 1923.
Razor and razor blades. Tru-Way Razor Company. 166,804; Apr. 17; Serial No. 166,228; published Jan. 23, 1923.
Razors. M. Schmidt. 166,830; Apr. 17; Serial No. 170,792; published Jan. 23, 1923.
Refrigerators, Portable. Livingood Manufacturing Corporation. 166,939; Apr. 17; Serial No. 171,426; published Jan. 23, 1923.
Ribbons in the piece, Silk. Taylor-Friedsam Company. 166,948–9; Apr. 17; Serial Nos. 171,877–8; published Jan. 30, 1923.
Rubber crib sheets, baby pants, sanitary aprons, etc. Sanimo Company. 166,788; Apr. 17; Serial No. 159,629; published Jan. 30, 1923.
Rubber or composition heels and soles for boots and shoes. Goodyear Tire & Rubber Company. 166,827; Apr. 17; Serial No. 170,934; published Jan. 23, 1923.
Salad dressing. Mahoney & Saxton. 166,868; Apr. 17; Serial No. 163,279; published Feb. 6, 1923.
Salt compound, Granulated effervescent. Physio-Chemical Laboratories. 166,988; Apr. 17.
Screen doors, windows, and transoms and frames for same. F. E. Schoenberg Mfg. Co. 167,000; Apr. 17.
Seeds, Farm or agricultural. Albert Dickinson Company. 23,347; renewed July 11, 1923.
Sheeting, Cotton. American Company for International Commerce. 166,784; Apr. 17; Serial No. 161,102; published July 25, 1922.
Sheeting for covering the padding on ironing rolls, Cotton. Tingue, Brown & Co. 166,909; Apr. 17; Serial No. 170,166; published Jan. 23, 1923.
Sheeting, knitted padding, netting, and canvas and duck piece goods, Cotton. Tingue, Brown & Co. 166,908; Apr. 17; Serial No. 170,167; published Jan. 30, 1923.
Shirts and collars and cuffs. R. M. Moody. 166,785; Apr. 17; Serial No. 160,423; published Jan. 9, 1923.
Shirts, Men's and boys'. H. Berger. 166,862; Apr. 17; Serial No. 163,566; published Jan. 9, 1923.
Shoe shanks, Steel. M. Cangen. 166,852; Apr. 17; Serial No. 165,272; published Jan. 16, 1923.
Shoes. E. J. Ramsey. 166,945; Apr. 17.
Shoes of leather. Buckingham & Hecht. 166,857; Apr. 17; Serial No 164,020; published Jan. 9, 1923.
Shoes, Leather. Endicott-Johnson Corporation. 166,802; Apr. 17; Serial No. 168,520; published Jan. 9, 1923.
Shoes, Leather. Lacost & Schwedler. 166,975; Apr. 17.
Shoes, Leather. Powell & Campbell. 166,967; Apr. 17.
Shoes, Women's. L. Bernstein. 166,829; Apr. 17; Serial No. 170,862; published Jan. 23, 1923.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 166,833; Apr. 17; Serial No. 170,348; published Jan. 9, 1923.
Silk, cotton and silk, and silk and wool piece goods. Oriental Silk Printing Company. 166,992; Apr. 17.
Silk piece goods. Golding Fabrics Corporation. 166,906; Apr. 17; Serial No. 170,276; published Jan. 23, 1923.
Silk piece goods. Golding Fabrics Corporation. 166,937; Apr. 17; Serial No. 170,278; published Jan. 30, 1923.
Silk piece goods. E. A. Rieger. 166,953; Apr. 17; Serial No. 170,899; published Jan. 30, 1923.
Silk piece goods. Robinson Silk Company. 166,957; Apr. 17; Serial No. 170,309; published Jan. 30, 1923.
Silk, Thrown. Baer Company. 166,924; Apr. 17; Serial No. 154,119; published Jan. 30, 1923.
Silk, wool, cotton, linen piece goods and combinations thereof. Meridian Textile Corporation. 166,845; Apr. 17; Serial No. 166,392; published Aug. 8, 1922.
Sirup, Malt and corn. E. M. Blumenthal. 166,832; Apr. 17; Serial No. 170,678; published Jan. 9, 1923.
Sirups, Malt. P. Hauck, jr. 166,919; Apr. 17; Serial No. 164,432; published Jan. 30, 1923.
Spades, Diamond-pointed. Terre Haute Shovel & Tool Co. 23,409; renewed July 25, 1923.
Spaghetti. Joseph Campbell Company. 166,870–1; Apr. 17; Serial Nos. 162,606–7; published Feb. 6, 1923.
Stains, varnishes, and enamels. Chiswick Polish Company. 166,821; Apr. 17; Serial No. 166,524; published Jan. 9, 1923.
Steel, steel wire, tools, files, and saws. Peter Stubs Limited. 22,752–3; renewed Apr. 4, 1923.
Steel, Tool. Darwin & Milner, Inc. 166,838; Apr. 17; Serial No. 169,535; published Jan. 9, 1923.
Steel, Tool. Vulcan Crucible Steel Co. 166,797; Apr. 17; Serial No. 152,292; published Jan. 9, 1923.
Steel drivers, pipe and nut wrenches, drilling posts, etc. Keystone Manufacturing Co. 166,836; Apr. 17; Serial No. 169,716; published Jan. 9, 1923.
Sucker rods. S. M. Jones Company. 166,858; Apr. 17; Serial No. 163,874; published Jan. 23, 1923.
Suits and overcoats, Men's, youths', and boys'. Sanger Brothers, Inc. 166,863; Apr. 17; Serial No. 163,293; published Oct. 24, 1922.
Tablets, Antiobesity. Wander Company. 166,964; Apr. 17.
Tablets, Medicinal throat. M. L. Thompson. 166,985; Apr. 17.
Thread and yarn. D. E. Adams Co. 166,894; Apr. 17; Serial No. 165,849; published Jan. 30, 1923.
Thread, Cotton. Smith & Dove Manufacturing Co. 166,913; Apr. 17; Serial No. 167,059; published Jan. 23, 1923.
Tin and terne plates and sheets. Baldwins Limited. 166,790; Apr. 17; Serial No. 158,415; published Jan. 16, 1923.
Tires, Rubber. Denman-Myers Cord Tire Co. 166,986; Apr. 17.
Toast. N. A. Matson Co. 166,990; Apr. 17.
Tonic for animals, General. J. Lasitter. 166,993; Apr. 17.
Typewriter ribbon, Cloth used for making. Rose & Frank Company. 166,946; Apr. 17; Serial No. 172,175; published Jan. 30, 1923.
Valves. F. C. Heylman. 166,812; Apr. 17; Serial No. 167,566; published Jan. 23, 1923.
Valves, Drain. S. Pavitchich. 166,834; Apr. 17; Serial No. 170,208; published Jan. 23, 1923.
Varnishes, stains, driers, japans, and kindred goods. Chicago Varnish Company. 22,394–5; renewed Jan. 31, 1923.
Vinegar, Apple-cider. Jones Bros. & Co. 166,987; Apr. 17.
Watches, watch movements, and parts of same. Hipp. Didisheim Company. 166,999; Apr. 17.
Wedge blocks, Wooden. S. A. Scott. 166,794; Apr. 17; Serial No. 154,420; published Jan. 9, 1923.
Wheat, Rolled. Pettijohn California Breakfast Food Company. 22,459; renewed Feb. 14, 1923.
Whisky. Distillers Company. 22,771; renewed Apr. 11, 1923.
Wines and other sparkling wines, Champagne. Societe Vinicole de Champagne. 166,853; Apr. 17; Serial No. 165,212; published Jan. 30, 1923.
Woolen cloths in the piece. S. Stein & Co. 166,914; Apr. 17; Serial No. 166,479; published Feb. 6, 1923.
Woolen cloths in the piece. S. Stein & Co. 166,918; Apr. 17; Serial No. 164,459; published Jan. 30, 1923.
Woolen piece goods. Forstmann & Huffmann. 166,945; Apr. 17; Serial No. 72,217; published Jan. 30, 1923.
Woven cotton and woolen fabrics. China and Japan Trading Company. 166,940; Apr. 17; Serial No. 171,831; published Jan. 30, 1923.
Yarns, Mercerized. Forrest Mercerizing Co. 166,912; Apr. 17; Serial No. 168,213; published Jan. 23, 1923.

ALPHABETICAL LIST OF LABELS.

Alverond. For Overcoats. Little & Golze. 25,838; Apr. 17.
Blue Flag Brand Fancy Crab. For Canned Crabs. N. Tatsukawa. 25,845; Apr. 17.
Bonnie B Talcum. For Talcum Powders. Bonnie-B Co. 25,829; Apr. 17.
Butarol Butter Paper. For Butter. Newark Paraffine & Parchment Paper Co. 25,840; Apr. 17.
Champion Metal Polish. For a Polish for Silverware, Brassware, and Similar Metal Surfaces. Wm. L. Houghton and Sons. 25,834; Apr. 17.
Double V Fold. For Bias-Seam Tape and Bias-Seam Binding. Economy Bias Binding Co. 25,832; Apr. 17.
Elmdale. For Butter. H. C. Christians Co. 25,831; Apr. 17.
Eveready Radio B Battery. For Electric Batteries. National Carbon Company. 25,839; Apr. 17.
Gold Seal Malt Extract. For Cans Containing Malt Extract. J. J. Haupt. 25,833; Apr. 17.
Humphrey's Big Chief Bar. For Candy Bar. W. E. Humphrey Co. 25,835; Apr. 17.
Humphrey's Bright Eyes Bar. For Candy Bar. W. E. Humphrey Co. 25,836; Apr. 17.
Mato Wonder Washing Powder. For Washing Powder. A. B. C. Sales Corporation. 25,827; Apr. 17.
Moonshine Cleaner. For Cartons Containing Cleaner for Automobiles and Furnitures. Bowen Chemical Co. 25,830; Apr. 17.
Paint—Varnish. For Paints and Varnishes. Pittsburgh Plate Glass Company. 25,843; Apr. 17.
Rice Hearts. For Cereal Products. Perfection Products Company. 25,842; Apr. 17.
Sterling Lawn Grass Seed. For Bags Containing Sterling Lawn-Grass Seed. Northrup, King & Co. 25,841; Apr. 17.
Sunset Label. For Calf Leather. Barnet Leather Co. Inc. 25,828; Apr. 17.
Veteran. For Work Shirts for Men and Boys. Salant & Salant, Inc. 25,844; Apr. 17.
Vim. For Cereal Food. Kellogg Company. 25,837; Apr. 17.
Wonderlay. For Containers for Egg Mash. Wonderlay Milling Company. 25,846; Apr. 17.

ALPHABETICAL LIST OF PRINTS.

An Old Wood Cut. For Wheat Breakfast Food. Cream of Wheat Co. 6,655; Apr. 17.
Brace up Your Child with Eline's Milk Chocolate Bars. For Chocolate. Eline's Incorporated. 6,658; Apr. 17.
Chocolates Fit for a Queen. For Schrafft's Chocolates. W. F. Schrafft & Sons Corporation. 6,665; Apr. 17.
Desmond's Miracle Oil for Upper Motor Lubrication. For Lubricating Oils and Lubricants. B. G. Desmond Manufacturing Corporation. 6,656; Apr. 17.
For Your Spring Cleaning. For Gold Dust Washing Powder. N. K. Fairbank Company. 6,660; Apr. 17.
Kantlose Mitten and Glove Guard. For Mitten and Glove Guards. B. C. Christy. 6,654; Apr. 17.
Keep Your System Regulated. For Dried Peaches and Figs and Fig Products. California Peach & Fig Growers. 6,653; Apr. 17.
King Tut. For Cotton Piece Goods. Oppenheim Oberndorf & Co. 6,662; Apr. 17.
Like a Painted Lily—. For Fairy Soap. N. K. Fairbank Company, 6,659; Apr. 17.
Not a Day Older. For Palmolive Soap. Palmolive Company. 6,664; Apr. 17.
Order Today! Delivered Tomorrow. For Hotels, Restaurants, and Janitor Supplies. Edward Don & Company. 6,657; Apr. 17.
Regular as Clock Work. For Medicinal Oils. Standard Oil Company (New Jersey). 6,666; Apr. 17.
Say—Kayser Gloves. For Gloves. Julius Kayser & Co. 6,661; Apr. 17.
10-Piece Cretonne Set. For Cretonne Draperies. Brooklyn Curtain Works, Inc. 6,652; Apr. 17.
The Springtime of Life. For a Palmolive Soap. Palmolive Company. 6,663; Apr. 17.
Vitovim Twins. For Bread. Ward Baking Company. 6,667; Apr. 17.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alloy, Nickel and manganese. Henry Wiggin & Company Limited. 172,707; Apr. 17.
Alloy, Nickel-chrome. Henry Wiggin & Company Limited. 172,704–6; Apr. 17.
Alloy, Nickel-chrome-steel. Henry Wiggin & Company Limited. 172,709; Apr. 17.
Alloys, Metallic soldering. S. Pfyffer. 173,053; Apr. 17.
Alloys, Nickel-copper. Henry Wiggin & Company Limited. 172,708; Apr. 17.
Antiseptic. G. C. Biegler. 165,058; Apr. 17.
Antiseptic dressings and absorbent and medicated cottons and gauzes, and bandages. Deane Plaster Co. 175,307; Apr. 17.
Apples, Dehydrated. Washington Dehydrated Food Co. 172,919; Apr. 17.
Applicators for the lips. A. and G. Co. 172,409; Apr. 17.
Automobile bumpers, bumper brackets and fittings, etc. Cox Brass Manufacturing Company. 162,806; Apr. 17.
Automobile cabs and trucks. Checker Cab Manufacturing Corporation. 169,576; Apr. 17.
Belt fasteners. Flexible Steel Lacing Company. 167,870; Apr. 17.
Beverage sold as a soft drink and flavoring sirups, etc., used in preparation of the same. Forst Products Co. 176,172; Apr. 17.
Beverages sold as soft drinks and sirups for making the same. Society Club Beverage Corporation. 175,411; Apr. 17.
Beverages sold as soft drinks and sirups for making the same. H. Kirsch & Co. 175,400; Apr. 17.
Beverages sold as soft drinks and sirups used in the preparation of same. J. R. Reynolds. 176,217; Apr. 17.
Blankets, Woolen football. James W. Brine Company. 172,728; Apr. 17.
Boots and shoes. A. E. Little Company. 175,254; Apr. 17.
Boots and shoes. Weyenberg Shoe Mfg. Co. 176,387; Apr. 17.
Boots and shoes, Leather. S. Alexander. 172,410; Apr. 17.
Brooms. C. N. Cramer Co. 174,891; Apr. 17.
Brushes for painting, etc. John L. Whiting-J. J. Adams Company. 175,584; Apr. 17.
Bumpers, bumper brackets and fittings. Cox Brass Manufacturing Company. 162,803–4; Apr. 17.
Candy. W. H. Eads. 168,759; Apr. 17.
Candy. George Close Co. 172,516–7; Apr. 17.
Candy. Halligan Candy Company. 173,043; Apr. 17.
Candy. New England Confectionery Company. 154,820; Apr. 17.
Candy. New England Confectionery Company. 154,839; Apr. 17.
Candy confections and sugar-coated fruits. C. R. Pearce Company. 173,143–4; Apr. 17.
Canned figs. Food Products Co. 172,873; Apr. 17.
Canned fruits and vegetables. Fruit Belt Preserving Company. 172,984; Apr. 17.
Canned fruits and vegetables. John W. McCarthy, jr. Inc. 163,341; Apr. 17.
Canned fruits, vegetables, and fish. United States Products Corporation. 168,891; Apr. 17.
Canned salmon. A. A. Anderson. 172,821; Apr. 17.
Canned vegetables. Ephraim Sanitary Canning Company. 169,477; Apr. 17.
Canned vegetables and fish, molasses, and fruit preserves. Joannes Bros. Co. 172,745; Apr. 17.
Cardboard to be placed in fruit boxes to prevent the crushing of the fruit. S. Satake. 169,328; Apr. 17.
Carpets, Textile. Aetna Carpet Co. 174,504; Apr. 17.
Carriages, Baby. Westfield Manufacturing Company. 171,051; Apr. 17.

Chemical carbon destroyer. C. J. Schopp. 172,953; Apr. 17.
Chemical compounds, etc., for use in producing varying colors in burning fuel. L. M. Watson. 157,896-7; Apr. 17.
Chocolate. G. M. Cabrera. 168,511; Apr. 17.
Chocolates and nut candy. Royal Candy Company. 153,951; Apr. 17.
Coal. Cortright Coal Company. 157,475; Apr. 17.
Coal. Victor-American Fuel Company. 164,474; Apr. 17.
Coal and coke. Pinnacle Coal & Coke Company. 144,043; Apr. 17.
Coffee. G. Gund. 172,529; Apr. 17.
Coffee. Louisville Coffee Company. 166,080; Apr. 17.
Coffee. Rockford Wholesale Grocery Co. 169,563; Apr. 17.
Coffee, tea, food extracts, spices, canned fruits, etc. John Blaul's Sons Company. 173,028; Apr. 17.
Coffee, tea, spices, flavoring extracts. Olson Coffee Co. 168,546; Apr. 17.
Confections, Coated frozen. H. P. Hood & Sons. 159,360; Apr. 17.
Confections, Frozen. Butler-Blanchard Co. 168,706; Apr. 17.
Container holders, Beverage-. R. G. Mitchell. 161,733; Apr. 17.
Core facings, blackings, and binders, etc. Bird-Archer Company. 158,596; Apr. 17.
Cough mixture. Squire and Co. Birmingham Limited. 172,776; Apr. 17.
Cotton piece goods. Weiner Brothers, Inc. 174,550; Apr. 17.
Cream, Facial. C. Jaeger Distributing Co. 170,388; Apr. 17.
Drink, Malted chocolate milk. Weber Milk Company. 165,320; Apr. 17.
Egg producer and poultry tonic. Carolina Remedies Company. 177,272; Apr. 17.
Embalmers' face pack, clay massage, cold and vanishing creams. C. L. Chute. 170,742; Apr. 17.
Enamels, Paint. Frank Bowles Company. 176,396; Apr. 17.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 173,763; Apr. 17.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 175,765; Apr. 17.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 175,767; Apr. 17.
Fertilizer. American Agricultural Chemical Company. 176,868; Apr. 17.
Finishing and polishing materials in the nature of a varnish. Sheratone Products Corporation. 173,678; Apr. 17.
Fluids, Material for arresting and separating impurities or other matter from. Celite Products Company. 146,755; Apr. 17.
Food-mixing machines and parts thereof. Meteor Mixing Machine Co. 170,441; Apr. 17.
French Dressing. Windmill Food Products Company. 170,171; Apr. 17.
Fruits, Fresh citrous. Arizona Citrus Growers' Co. 172,857; Apr. 17.
Gas-generating means. S. P. Wetherill, jr. 170,848; Apr. 17.
Gasoline and lubricating oils. H. Bunge. 176,064; Apr. 17.
Grape juice and apple juice. Paul De Laney Co. Inc. 175,772; Apr. 17.
Hair salve and pomade. H. L. Rabinow. 172,058; Apr. 17.
Hair tonic. A. E. Glickman. 171,017; Apr. 17.
Hammers, hatchets, shovels, screw drivers, and chisels. B. Lurye. 171,226; Apr. 17.
Hoof trimmers, Cow-. C. Kappeler. 174,396; Apr. 17.
Horse-radish. R. J. Diekemper. 172,867; Apr. 17.
Ice cream. Goodman American Ice Cream Company. 169,710; Apr. 17.
Ice cream inclosed in pastry. G. H. Garnet. 161,251; Apr. 17.
Inner-tube repair patches. J. J. Fuchs. 132,601; Apr. 17.
Insecticide and moth proofing composition. Process Chemicals Incorporated. 168,489; Apr. 17.
Knitting wool. James Templeton & Son, Ltd. 174,870; Apr. 17.
Lens blanks, Ophthalmic. Sussfeld, Lorch & Schimmel. 176,766; Apr. 17.
Lenses and blanks, Ophthalmic. Sussfeld, Lorch & Schimmel. 176,767; Apr. 17.
Lime. Kimbalton Lime Company. 170,822; Apr. 17.
Lumber. National Lumber Manufacturers Association. 174,478–9; Apr. 17.
Macaroni and olive oil. Kurts Brothers. 167,002; Apr. 17.
Macaroni products, canned fruits, vegetables, and fish, evaporated milk, etc. Fontana Food Products Company. 172,872; Apr. 17.
Maple cream, sirup, sugar, and honey, sauce for ice cream. Maple Grove Candies, Inc. 164,522; Apr. 17.
Matches. Diamond Match Company. 158,622–3; Apr. 17.
Matches. Diamond Match Company. 177,076–8; Apr. 17.
Medicine for tuberculosis, pneumonia, and pleurisy. T. D. Gomi. 173,131; Apr. 17.
Metals used for electrical purposes. Henry Wiggin & Company, Limited. 172,702; Apr. 17.
Milling machinery, bolting reels, etc. B. F. Gump Co. 124,986; Apr. 17.
Mops and mop handles. W. H. Fisher. 175,855; Apr. 17.
Mops and mopsticks. Beaton & Cadwell Manufacturing Company. 175,760; Apr. 17.
Newspaper, Afternoon. Bellingham Publishing Company. 175,127; Apr. 17.
Newspaper, Daily. Oklahoma Publishing Company. 174,973; Apr. 17.
Newspaper, Daily. Oklahoma Publishing Company. 175,152; Apr. 17.
Newspaper, Morning. Bellingham Publishing Company. 175,128; Apr. 17.
Nickel and alloys of nickel. Henry Wiggin & Company Limited. 172,701; Apr. 17.
Nickel steel. Henry Wiggin & Company Limited. 172,703; Apr. 17.
Oil, Salad and cooking. H. E. Havens. 172,738; Apr. 17.
Oils and greases, gasoline, motor spirit, etc., Lubricating. Petroleum Products Co. 173,904; Apr. 17.
Oil used in making high-gloss varnish. F. E. Booth Co. 167,553; Apr. 17.
Ointment, Goiter. Dr. D. D. MacGillivray. 172,278; Apr. 17
Ovens, Dutch. Griswold Manufacturing Company. 172,156; Apr. 17.
Packing, Piston-rod. Johns-Mansville Incorporated. 170,294; Apr. 17.
Paints and varnishes. Oliver Reeder & Son, Inc. 173,006; Apr. 17.
Paints and varnishes. St Louis Surfacer & Paint Company. 172,777; Apr. 17.
Paint, fiber roof paint, varnish, paint enamel, etc., Wagon. Progress Paint Mfg. Co. 176,043; Apr. 17.
Paints, enamels, etc., Preparation used in the manufacture of floor. Keystone Varnish Company. 176,351; Apr. 17.
Paints, house paints, paint enamels, etc., Ready-mixed. Kolbe Paint Company. 175,858; Apr. 17.
Paints, Liquid and paste. Pittsburgh Plate Glass Company. 175,518; Apr. 17.
Paints, paint enamels, japans, etc. Sherwin-Williams Company. 174,413; Apr. 17.
Paints, varnishes, paint enamels. Enterprise Paint Mfg. Co. 174,827; Apr. 17.
Paints, varnishes, and paint enamels. Enterprise Paint Mfg. Co. 174,829; Apr. 17.
Paper, Blotting. Standard Paper Manufacturing Co. 174,703–4; Apr. 17.
Paper receptacles. Raymond Bag Company. 172,687; Apr. 17.
Paper tablets, composition and blank books, pads, papeteries, etc. Aller Brothers. 175,539; Apr. 17.
Paper, Writing. Hawthorne Paper Company. 156,447; Apr. 17.
Papeteries, writing and typewriting tablets, etc. White & Wyckoff Manufacturing Company. 173,114; Apr. 17.
Papeteries, writing and typewriting tablets, etc. White & Wyckoff Mfg. Company. 173,116; Apr. 17.
Papeteries, writing and typewriting tablets, etc. White & Wyckoff Manufacturing Company. 173,120–2; Apr. 17.
Papeteries, writing and typewriting tablets, etc. White & Wyckoff Manufacturing Company. 175,827; Apr. 17.
Partitions in buildings, for doors, wardrobes, and the like, Wood rolling. J. W. Monroe. 166,705; Apr. 17.
Pencils, pencil-point protectors, and penholders, Lead. Blaisdell Pencil Company. 175,914; Apr. 17.
Perfume or toilet water, etc., Bottles, vials, packages, or cases containing. Harlequin Parfumerie Campagnie. 171,167; Apr. 17.
Perfume, toilet water, toilet powder, hair tonic, shampoo, etc. Erste Karlsruher Parfümerie- & Toilettenseifen-Fabrik, F. Wolff & Sohn Gesellschaft mit beschränkter Haftung. 173,706; Apr. 17.
Perfume, toilet water, rouges, face powder, etc. E. Daltroff & Cie. 173,876; Apr. 17.
Perfume toilet water, rouges, face powder, etc. E. Daltroff & Cie. 173,880; Apr. 17.
Periodical, Section of a monthly. B. C. Bost. 173,910; Apr. 17.
Periodical, Weekly. Walter Reed General Hospital. 174,189; Apr. 17.
Photographic mountings. California Card Manufacturing Co. 175,340; Apr. 17.
Pickles. American Pickle & Canning Company. 172,716; Apr. 17.
Pills, headache tablets, eye balm, etc., Liver. L. Altfeld. 172,855; Apr. 17.
Piston rods. A. L. Stout & Co. 174,345; Apr. 17.
Powder, Face. Hugg'me Company. 170,453; Apr. 17.
Preparation for inflammatory conditions. T. W. Stemmler. 171,575; Apr. 17.
Preparation for the treatment of inflamed eyes. T. W. Stemmler. 171,576; Apr. 17.
Preparations, Laxatives and corrective. Gotham Corporation. 173,928; Apr. 17.
Publication. Post-Time Publishing Co. 175,328; Apr. 17.

Publications, Periodical. B. T. Shields. 174,927; Apr. 17.
Publication page. Toledo Scale Company. 174,115; Apr. 17.
Pump outfits, parts, and fittings thereof. Cleveland Steel Barrel Company. 171,063; Apr. 17.
Raisins. Hershey Chocolate Company of New York. 158,774; Apr. 17.
Razors. Union Cutlery Co. 175,033; Apr. 17.
Ring books, and leather coin pouches, key cases, and letter covers. Leather Products & Finishing Co. 173,902; Apr. 17.
Rope and twine. Johnson Pickett Rope Co. 164,920–1; Apr. 17.
Rubber boots and shoes and arctic overshoes. Goodyear Rubber Company. 176,338; Apr. 17.
Sanitary-napkin holders. S. A. Harrison. 175,491; Apr. 17.
Sheetings and drills, Unbleached. R. A. Suffern. 157,109; Apr. 17.
Shipping cases, Fiber. St. Regis Paper Co. 175,445; Apr. 17.
Shoes, Leather. McIanson Shoe Company. 175,259; Apr. 17.
Shoes, Leather. Edmonds Shoe Company. 174,514; Apr. 17.
Shortening. Brown Orcola Company. 167,598; Apr. 17.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 174,986; Apr. 17.
Silk piece goods. H. R. Mallinson & Co. Inc. 174,020; Apr. 17.
Silk piece goods. Susquehanna Silk Mills. 174,868; Apr. 17.
Sprayers for medicinal use. Ostra Corporation. 172,954; Apr. 17.
Tank floats, Vacuum. J. H. Cohen. 167,840; Apr. 17.
Tea. Joannes Bros. Co. 172,743; Apr. 17.
Textile fabrics. Valentine & Bunker. 175,630; Apr. 17.
Textile fabrics, Manufactured. Associated Textile Manufacturers, Inc. 175,232; Apr. 17.
Tire casings, Automobile. Cord Tire Corporation. 167,712; Apr. 17.
Tire casings, Outer tires or coverings for pneumatic-. A. J. Stephens Rubber Co. 173,306; Apr. 17.
Tires, Pneumatic vehicle. Empire Tire & Rubber Corporation. 166,223; Apr. 17.
Tires, inner tubes, etc., Vehicle. Ideal Tire and Rubber Company. 155,968; Apr. 1.
Threads, Pure and artificial silk. H. K. H. Silk Co. 173,828; Apr. 17.
Toilet powders and handkerchief extracts. Perfumerie Gal, Sociedad Anonima. 169,418; Apr. 17.
Tonics, Medicinal. H. C. Brown. 173,589; Apr. 17.
Tools. Romer Axe and Tool Company. 155,070; Apr. 17.
Tools, agricultural implements, Carpenters'. Markt & Hammacher Company. 172,233; Apr. 17.
Toothbrushes. P. B. T. Williams. 176,389–91; Apr. 17.
Toothbrush containers. F. T. Conley. 175,771; Apr. 17.
Tractors and attachments and parts thereof. International Harvester Company. 173,649; Apr. 17.
Trucks, Floor. W. M. Nutting. 173,240; Apr. 17.
Tubes, pneumatic, cord, and fabric tires, Inner. Columbia Tire and Rubber Company. 171,751; Apr. 17.
Upholstery and drapery fabric. Henry Goldthorp Company. 170,003; Apr. 17.
Valves, Poppet. Toledo Steel Products Co. 168,991; Apr. 17.
Vaults, Burial. Con-O-Lite Corporation. 176,072; Apr. 17.
Wall or plaster board. S. A. Blair. 174,723; Apr. 17.
Wheat confection, Puffed-. E. F. Allingham Mfg. Co. 172,714; Apr. 17.
Whiting. Taintor Company. 175,171; Apr. 17.
Window glass. Mountain State Glass Co. 177,139; Apr. 17.
Wire, Base-metal. Page Steel & Wire Company. 162,646; Apr. 17.
Wires, Resistance. Henry Wiggin & Company Limited. 170,345; Apr. 17.
Wrenches. Gellman Wrench Corporation. 174,896; Apr. 17.
Yarn. Wm. H. Horstmann Company. 176,990; Apr. 17.
Zeolites and base-exchange water-softening agents. H. S. B. W. Cochrane Corporation. 173,888; Apr. 17.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abbott Laboratories, The. (See Young, Ferdinand H., assignor.)
Abrames, Harvey, Norfolk, Va. Hydraulic piling. 1,451,753; Apr. 17.
Ackermann, Frank B. (See Steffan, W. C., Ackermann, and Greiner.)
Adams, Ora L., Berkeley, Calif. Load-supporting connection for wheeled structures. 1,452,135; Apr. 17.
Agner, Raymond C., Burlington, Wis. Flexible conduit. 1,451,800; Apr. 17.
Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus especially for naval guns. 1,452,015; Apr. 17.
Aktiebolaget Ars. (See Hasait, Max, assignor.)
Alexander, Henry W., jr., Philadelphia, Pa. Candy mint. Des. 62,213; Apr. 17.
Allen, Broadus S., Gaffney, S. C., assignor, by mesne assignments, to M. B. Lipscomb. Folding crate. 1,452,404; Apr. 17.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. 1,452,016; Apr. 17.
Allen, George P., Los Angeles, Calif. Spring suspension for motor vehicles, etc. 1,452,017; Apr. 17.
Allen, Malcolm O., Newport, Tenn. Cleaner for meter-dial guards. 1,462,018; Apr. 17.
Alter, Charles N., Alliance, Ohio. Electric switch. 1,452,333; Apr. 17.
American Can Company. (See De Land, Daniel B., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Leighton, George A., assignor.)
American Lacing Hook Co. (See Havener, Arthur R., assignor.)
American Metal Products Company. (See Zaiser, Carl J., assignor.)
American Optical Company. (See Kreissl, Frank N., assignor.)
American Potash Corporation. (See Charlton, H. W., and Shreve, assignors.)
American Radio & Research Corporation. (See Bush, Vannevar, assignor.)
American Stove Company. (See Blackford, Atwell J., assignor.)
American Sugar Refining Company, The. (See Niese, Henry E., assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Suitzer, Morton, assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
Ancidoni, Alfred, Newark, N. J. Tire construction. 1,462,136; Apr. 17.
Andelsen, Vigго W., assignor to Burson Knitting Company, Rockford, Ill. Pattern-control mechanism for knitting machines. 1,452,137; Apr. 17.
Anderson, Tom D., San Jose, Calif. Bed. 1,452,104; Apr. 17.
Andraska, Frank, Marshfield, Wis. Tire chain. 1,452,405; Apr. 17.
Andrews, Leslie G., and R. R. Theis, Lincoln, Nebr. Key holder. 1,451,802; Apr. 17.
Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Handling, drying, and forming pasted battery plates. 1,451,801; Apr. 17.
Angevine, G. U., Company, The. (See Angevine, Glenn U., assignor.)
Angevine, Glenn U., assignor to The G. U. Angevine Company, Chicago, Ill. Drapery hanger. 1,451,754; Apr. 17.
Angier, Edward H. (See Whelidon, William M., assignor.)
Ansley, Frederick C. R. (See Bedingfield, Charles H., assignor.)
Archer, Thomas P. (See Edgar, F. M., and Archer.)
Arm, Max, New York, N. Y. Lock. 1,452,406; Apr. 17.
Armstrong, Edward P. and H. W., Portland Oreg. Automatic saw-sharpening machine. 1,452,351; Apr. 17.
Armstrong, Edwin J., assignor of one-half to A. C. Vicary, Erie, Pa. Locking device for power shovels and the like. 1,451,803; Apr. 17.
Armstrong, Henry W. (See Armstrong, Edward P. and H. W.)
Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
Arnold, Joseph, Ganshoren, near Brussels, Belgium. Device for the preservation and aseptic drawing off of liquids. 1,451,937; Apr. 17.
Aragose, Frank, North Adams, Mass. Spark plug. 1,452,177; Apr. 17.
Aske, Irving E., Duluth, Minn. Heater or vaporizer. 1,452,105; Apr. 17.
Aske, Leonard E., Duluth, Minn. Electric vaporizer. 1,451,673; Apr. 17.
Asselin, James H., San Francisco, Calif. Tongue switch and mate for railways. 1,452,019; Apr. 17.
Atkins, Frank, J., Davenport, Iowa. Oil burner. 1,452,020; Apr. 17.
Auld, Frederick H., Columbus, Ohio. Massaging device. 1,452,106; Apr. 17.
Austin, F. C., Machinery Company. (See French, James C., assignor.)
Automatic Electric Company. (See Keith, Alexander E., assignor.)
Automatic Electric Company. (See Nelson, Martin L., assignor.)
Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
Ayres, John E. (See Spiker, T. A., and Ayres.)
B. G. Tertilwerke G. m. b. H. (See Trenckmann, Erich and B., assignors.)
Backer, Christian B., Bergen, Norway. Producing a protective coating on objects of magnesium or magnesium alloys. 1,451,755; Apr. 17.
Baddiley, James, J. B. Payman, and E. G. Bainbridge, assignors to British Dyestuffs Corporation Limited, Manchester, England. Manufacture of 1.4 naphthol sulphonic acid. 1,452,481; Apr. 17.
Baer, Carl J., St. Louis, Mo. Boat-propelling means. 1,452,059; Apr. 17.
Baer, Walter C., Toledo, Ohio. Lamp bracket. 1,452,138; Apr. 17.
Bahr, August T. J., Detroit, Mich., assignor of one-half to C. B. Kline, Dormont, Pa. Lug ring. 1,451,804; Apr. 17.
Bailey, James G., Delavan, assignor to Rotary Spreader, Mason City, Ill. Manure spreader. 1,452,139; Apr. 17.
Bainbridge, Ernest G. (See Baddiley, J., Payman, and Bainbridge.)
Baisley, Charles T., North Edgecomb, Me., assignor to Manhattan Electrical Supply Co. Inc., New York, N. Y. Telephone receiver. 1,452,334; Apr. 17.
Baker, Guy O., Atlantic, Iowa. Unloading device. 1,452,021; Apr. 17.
Baker, William H., Newton, Kans. Calendar. 1,452,407; Apr. 17.
Balcke, Walter H., Winchester, assignor to National Company, Cambridge, Mass. Dancing toy figure. 1,451,805; Apr. 17.
Balcker, Marten, assignor to J. Nelson, Chicago, Ill. Rotary compressor. 1,451,859; Apr. 17.
Baldridge, Joseph E., Avalon, Pa. Dental tool holder. 1,451,806. Apr. 17.
Baldwin, William H., Middletown, Conn. Tractor lawn mower. 1,451,807; Apr. 17.
Ball, John P., Chicago, Ill. Starting device for treating liquids. 1,452,335; Apr. 17.
Ballew, Elmer L., Chicago, Ill. Electric-sign-flashing apparatus. 1,452,178; Apr. 17.
Balls, William L., Manchester, England. Apparatus for grading or separating fibers according to their length. 1,452,352; Apr. 17.
Balls, William L., and F. Hutchins, Manchester, England. Apparatus for grading or separating fibers according to their length. 1,452,353; Apr. 17.
Barker Asphalt Paving Company, The. (See Monrath, Gustav, assignor.)
Barlow, Harry, and J. E. H. Mathies, East Moline, Ill. Mail-bag delivery and receiving crane. 1,452,234; Apr. 17.
Barnard, William F., Marion, Ind. Station stop device. 1,452,022; Apr. 17.
Baumgartner, John A., South Bend, Ind. Meat-cutting machine. 1,451,674; Apr. 17.
Baumgartner, John A., South Bend, Ind. Meat-cutting machine. 1,451,675; Apr. 17.
Baumhover, Herbert A., Dubuque, Iowa. Wall construction. 1,452,107; Apr. 17.

Bausch & Lomb Optical Company. (See Powell, John R., assignor.)
Baxter, Ernest A., St. Paul's, Ontario, Canada. Hen's nest. 1,452,141; Apr. 17.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-feed control for rock drills. 1,452,140; Apr. 17.
Beckwith, Walter C., Fostoria, Ohio. Safe and vault protector. 1,451,974; Apr. 17.
Bedingfield, Charles H., Maple, assignor to F. C. R. Ansley, St. Catharines, Ontario, Canada. Combined spark intensifier and detector for internal-combustion engines. 1,451,808; Apr. 17.
Beere, Arthur W. (See Clews, C. E., and Beere.)
Belcher Aerial Manufacturing Company. (See Belcher, Osmond T., assignor.)
Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Rudder and elevator assembly for aeroplanes. 1,452,060; Apr. 17
Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Tractor. 1,452,262; Apr. 17.
Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Steering means for tractors. 1,452,263; Apr. 17.
Bell, George G., Ashland, Ky. Dental tool. 1,451,809; Apr. 17.
Bell, Leslie G., and M. Grimm, Montreal, Quebec, Canada. Signal. 1,452,455; Apr. 17.
Berg, John, Pasadena, Calif. Steel eraser. 1,451,938; Apr. 17.
Berlien, Corwin M., Burkburnett, assignor of one-half to The Texhoma Oil & Refining Company, Wichita Falls, Tex. Standing valve. 1,451,676; Apr. 17.
Bertsch, John C., Tulsa, Okla. Gas expansion and absorption process and apparatus therefor. 1,452,061; Apr. 17.
Besly, Charles H., & Company. (See Miller, John, jr., assignor.)
Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Padlock. 1,451,860; Apr. 17.
Best, Frank E., Inc. (See Best, Frank E., assignor.)
Bethlehem Steel Company. (See Fulda, Edward, assignor.)
Bindel, Friedrich W., Hamburg, Germany. Device for welding chain links, rings, and the like. 1,452,023; Apr. 17.
Binks, Harry D., River Forest, Ill. Adjustable spray nozzle. 1,452,264; Apr. 17.
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wickless oil burner. 1,452,354; Apr. 17.
Blixt, Terry. (See Frosch, E. E., and Blixt.)
Blodgett, George R., M. E. Cheney, Brooklyn, and R. T. Hurley, New York, N. Y. Making spark plugs. 1,451,677; Apr. 17.
Bloom, Edgar J., Tiffin, Ohio. Force pump. 1,451,861; Apr. 17.
Blot, Lucien P., assignor to The Peck, Stow & Wilcox Co., Southington, Conn. Bench vise. 1,452,062; Apr. 17.
Böhle, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Swaging press. 1,451,756; Apr. 17.
Bolf, John, Miles, Tex. Animal trap. 1,452,355; Apr. 17.
Bolgár, Sándor, Vienna, Austria, assignor to J. Breyer, Nashville, Tenn. Chain and making same. 1,452,408; Apr. 17.
Bongirno, Andrew, Brooklyn, N. Y. Toy cat. Des. 62,214; Apr. 17.
Bonney, Bick R., assignor to Stroud and Company, Omaha, Nebr. Steering means for drawn vehicles. 1,421,757; Apr. 17.
Bostrom, Earnst A., assignor to Pomona Products Company, Griffin, Ga. Roasting machine. 1,452,409; Apr. 17.
Boucher, Pierre J., Kensington, London, England. Machine for capping bottles or the like. 1,452,410; Apr. 17.
Bourn, Stephen W., Providence, R. I. Machine for making flexible tubular armor. 1,452,356; Apr. 17.
Bower, Lyda S., Covington, Ga. Color-mixing device. 1,451,810; Apr. 17.
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Bozard, Harrison B., Hamilton, Ontario, Canada, and C. W. Robinson, Auburn, N. Y., assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Power-lift drill. 1,452,286; Apr. 17.
Bradley, George R., Brooklyn, N. Y. Power declinkering apparatus. 1,452,336; Apr. 17.
Brandock, Andrew S., Pueblo, Colo. Wedgeless driving box. 1,452,235; Apr. 17.
Branson, Thomas, assignor to Sibson & Stern, Inc., Philadelphia, Pa. Reenforcing fabric for tires. 1,451,975; Apr. 17.
Brecel, Edward, assignor of one-fourth to P. Dzmitrowicz, Brooklyn, N. Y. Camper's combination utensil. 1,452,337; Apr. 17.
Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable support. Re15,581; Apr. 17.
Brenner, Fredrick N., Tell City, Ind. Band-saw guide and guard. 1,452,179; Apr. 17.
Brewster, Oswald C. (See Porter, C. A., and Brewster.)
Breyer, Frank G., and W. H. Finkeldey, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of dry-battery cans. 1,451,758; Apr. 17.
Breyer, Julius. (See Bolgár, Sándor, assignor.)
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Liquid head gauge. 1,452,142; Apr. 17.
Bristol, William H., Waterbury, Conn. Synchronous operation of entertainment apparatus. 1,452,063; Apr. 17.
British Dyestuffs Corporation Limited. (See Baddiley, J., Payman, and Bainbridge, assignors.)
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, Francis H., Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass. Burner. 1,451,811; Apr. 17.
Brown, Francis H., Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass. Burner. 1,451,812; Apr. 17.
Brubacker, Howard C., Rodney, Ontario, Canada. Inside pocket iron. 1,451,813; Apr. 17.
Bruhn, Gustav A., Harburg-on-the-Elbe, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic weighing apparatus for loose materials. 1,451,750; Apr. 17.
Brunner, Harold E., Larchmont, N. Y., assignor to The Hess-Bright Manufacturing Company. Spinning spindle. 1,452,180; Apr. 17.
Bryant Electric Company, The. (See Stendahl, Ludwig, assignor.)
Bucks, David H., La Fayette, Ohio. Safety chick box. 1,451,760; Apr. 17.
Bunn, Orrice F., Bristol, Tenn. Life-saving garment. 1,452,411; Apr. 17.
Burke, Albert C., La Crosse, Wis. Can opener. 1,452,287; Apr. 17.
Burke Electric Company. (See Burke, James, assignor.)
Burke, James, Erie, Pa., assignor to Burke Electric Company. Dynamo frame and forming the same. 1,452,143; Apr. 17.
Burrows, Robert P., South Bend, Ind. Flashing fastening for concrete and other buildings. 1,452,412; Apr. 17.
Burson Knitting Company. (See Andelsen, Viggo W., assignor.)
Burson Knitting Company. (See Parker, W. S., and Jesperson, assignors.)
Burton, Jesse B., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stop mechanism. 1,452,357; Apr. 17.
Busch, Auguste. (See Tommasi, C., Sandholm, Danneel, and Busch.)
Bush, Vannevar, Chelsea, assignor to American Radio & Research Corporation, Medford, Mass. Radiotransmitter. 1,452,064; Apr. 17.
Butler, Rollo J., Tonopah, Nev. Centrifugal amalgamator. 1,452,181; Apr. 17.
Butrum, Clarence A., Holton, Kans. Platform ladder jack. 1,452,182; Apr. 17.
By-Products Recovery Company. (See Mellott, Howard S., assignor.)
Bye, Karl, and P. Werle, Butte, Mont. Vehicle headlight. 1,451,862; Apr. 17.
Byor, Gustav A., Edgar, Nebr. Register. 1,451,761; Apr. 17.
Byrd, H. B., Manufacturing Company. (See Marshall, Stanmore P., assignor.)
Calabrese, Vincent, Brooklyn, N. Y. Camera. 1,452,413; Apr. 17.
Calahan, Harold A., New York, N. Y. Automobile lock protective device. 1,452,065; Apr. 17.
Cameron, Will J., Chicago, Ill. Variable-resistance unit. 1,451,678; Apr. 17.
Campbell, Henry A., Oakland, Calif. Rotary compressor. 1,452,024; Apr. 17.
Campbell, Henry A., Oakland, Calif. Two-stroke deep-well power head. 1,452,025; Apr. 17.
Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. 1,452,358; Apr. 17.
Caps, John E., Wilmette, Ill. Water-softening apparatus. 1,452,288; Apr. 17.
Carlin, Arvid F., New York, N. Y. Combined shelf and bracket. 1,452,144; Apr. 17.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Tatting shuttle. 1,452,183; Apr. 17.
Caron, Octave, Faribault, Minn. Clod crasher. 1,452,184; Apr. 17.
Carrau, Salvador, and W. R. Cobean, Buenos Aires, Argentina. Device for the use of carbon paper in typewriters. 1,452,414; Apr. 17.
Carter, Clark E., Montreal, Quebec, Canada. Chain link. 1,452,476; Apr. 17.
Carter, Donald M., trustee. (See Dahl, Conrad, assignor.)
Carter, Francis A., Chicago, Ill. Spark plug. 1,451,939; Apr. 17.
Carter, John H., Cohoes, N. Y. Toothbrush. 1,452,108; Apr. 17.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon the soles of shoes. 1,451,679; Apr. 17.
Caspary, Emil, Berlin, Germany. Ship's cabin. 1,452,026; Apr. 17.

Cass, Frank A., assignor to South Bend Bait Co., South Bend, Ind. Fishing lure. 1,452,359; Apr. 17.
Cave, Henry, Hartford, Conn. Drying apparatus for clothes. 1,452,066; Apr. 17.
Cederberg, Ivar W., Berlin, Germany. Apparatus and method for carrying out catalytic oxidation of ammonia with oxygen. 1,452,145; Apr. 17.
Cederberg, Ivar W., Lidingo-Brevik, near Stockholm, Sweden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Catalyzer for the synthetic manufacture of ammonia and producing same. 1,452,027; Apr. 17.
Centerbar, Lorenzo R., Fitchburg, Mass. Toy. 1,452,109; Apr. 17.
Chambers, William L., Eden, Utah. Wheel-rim adjuster. 1,451,976; Apr. 17.
Chapman, Norton W., assignor to The Guilford Mfg. Co., Guilford, Conn. Manicure buffer. 1,452,067; Apr. 17.
Chard, William H. (See Hills, W. F., and Chard.)
Charles, Edward S., Berwyn, Ill., assignor to International Harvester Company, Ensilage-cutter-knife adjustment. 1,452,289; Apr. 17.
Charlton, Harry W., and R. N. Shreve, assignors to American Potash Corporation, New York, N. Y. Accelerating agent in potash recovery. 1,452,186; Apr. 17.
Charlton, Harry W., and R. N. Shreve, assignors to American Potash Corporation, New York, N. Y. Alkali-metal product and producing the same. 1,452,185; Apr. 17.
Chemical Machinery Corporation. (See Field, Crosby, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Laska, A. L., and Zitscher, assignors.)
Cheney, Moses E. (See Blodgett, G. R., Cheney, and Hurley.)
Cheramy, Inc. (See Miles, Frank J. M., assignor.)
Chiles, George S., Chicago, Ill. Car truck. 1,452,187; Apr. 17.
Chott, Edward L., Chicago, Ill. Dental articulator. 1,452,477; Apr. 17.
Christ, Benjamin F., Idagrove, Iowa. Lifter block for motor vehicles. 1,452,188; Apr. 17.
Christensen, Emil, Portland, Oreg. Automobile guard and bumper. 1,452,189; Apr. 17.
Chriswell, Frederick W., assignor to Pacific car and foundry company, Seattle, Wash. Logging car for short logs. 1,451,940; Apr. 17.
Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
Clark, Warren F., assignor to Automatic Electric Heater Company, Warren, Pa. Liquid heater. 1,451,863; Apr. 17.
Clarke, Charles L., Fort Worth, Tex. Knee pad. 1,452,360; Apr. 17.
Clausen, Henry P., Mamaroneck, assignor to Western Electric Company, Incorporated, New York, N. Y. Phonographic apparatus. 1,452,361; Apr. 17.
Claussen, Herman H., San Antonio, Tex. Lock mechanism. 1,425,190; Apr. 17.
Cleveland, Benjamin L., assignor of one-fourth to S. C. Hutcheson, one-fourth to G. F. Meehan, and one-fourth to F. M. Hobbins, Chattanooga, Tenn. Anticreeper tie plate. 1,451,762; Apr. 17.
Cleveland Tractor Company, The. (See Savage, Edwin H., assignor.)
Cleveland Tractor Company, The. (See White, Rollin H., assignor.)
Clews, Charles E., and A. W. Beere, assignors to P. N. Kingswell, Auckland, New Zealand. Lifting jack and hauler. 1,452,236; Apr. 17.
Clifford, Curtis T., San Francisco, Calif. Dry-pipe mechanism for automatic springler systems. 1,452,191; Apr. 17.
Clifton-Ewart Construction Company, The. (See Clifton, W. E., and Ewart, assignors.)
Clifton, William E., and J. S. Ewart, assignors to The Clifton-Ewart Construction Company, Limited, Nottingham, England. Construction of concrete roofs. 1,452,362; Apr. 17.
Clinkinbeard, George W., St. Joseph, Mo. Attachment for mowing-machine sickle bars. 1,451,680; Apr. 17.
Cloud, John W., London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,452,068; Apr. 17.
Clum, Frederick H., assignor of one-half to J. W. Donaldson, Detroit, Mich. Toothbrush and paste holder. 1,451,941; Apr. 17.
Cmejla, Ferdinand A., Milwaukee, Wis. Curtain stretcher. 1,452,415; Apr. 17.
Coats, Roy N., Renton, assignor to Pacific Car and Foundry Company, Seattle, Wash. Car brake. 1,451,942; Apr. 17.
Cobean, Warren R. (See Carrau, S., and Cobean.)
Coffey, Cullom W. (See Doty, C. C., and Coffey.)
Collins, Charles S., New York, and L. Roessel, Brooklyn, N. Y. Method and apparatus for proportionally regulating the flow of fluids. 1,452,265; Apr. 17.
Comerford, Patrick, Victoria, British Columbia, Canada. Railway-switch lock. 1,452,069; Apr. 17.
Conboy, William H., Cheboygan, Mich. Valve cap. 1,452,146; Apr. 17.
Congar, Reville S. (See Keller, J. W., and Congar.)
Connecticut Electric Manufacturing Company, The. (See McClatchie, Stanley, assignor.)
Conrad, Hermann, Neustadt, Haardt, Germany. Plan sifting machine. 1,452,290; Apr. 17.
Container Club, The. (See Webb, John W., assignor.)
Coogan, James J., New York, N. Y. Dispensing receptacle. 1,451,899; Apr. 17.
Cook, Albert, Holyoke, Mass. Band-tying gauge. 1,451,681; Apr. 17.
Cook, Albert, Holyoke, Mass. Band-tying gauge. 1,451,682; Apr. 17.
Cook, Albert. (See Curry, M., and Cook.)
Cook, Harmon J., assignor to The Torrington Company, Torrington, Conn. Handle-adjusting mechanism. 1,452,192; Apr. 17.
Coryell, Charles L., Neodesha, Kans. Valve. 1,452,416; Apr. 17.
Cosgitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding attachment for typewriters. 1,451,864; Apr. 17.
Cosgitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding attachment for typewriters. 1,451,865; Apr. 17.
Cosgitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding attachment for typewriters. 1,451,866; Apr. 17.
Cosgitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding attachment for typewriters. 1,452,193; Apr. 17.
Couser, Isaac, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Bobbin-supply box. 1,451,683; Apr. 17.
Crane, Frederick G., et al. (See Hammond, Grant, assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Crupain, Morris, Newark, N. J. Sanitary package. 1,452,456; Apr. 17.
Crupain, Morris, Newark, N. J. Toilet-article package. 1,452,363; Apr. 17.
Culbertson, Moses, Kelfield, Saskatchewan, Canada. Seeder boot and shoe. 1,452,417; Apr. 17.
Cullinan, John J., Bradford, Pa. Pump packing. 1,451,814; Apr. 17.
Cummer, Harry, Buffalo, N. Y. Weighing scale. 1,451,684; Apr. 17.
Cunneen, Peter, New Rochelle, N. Y. Dish rack. 1,452,418; Apr. 17.
Cunningham, James, Son & Company. (See Franquist, Gustave E., assignor.)
Curry, Malcolm, Scarsdale, N. Y., and A. Cook, Holyoke, Mass.; said Curry assignor to said Cook. Band-tying gauge. 1,451,685; Apr. 17.
Curtis, William E., Wyandotte, Mich. Tire. 1,451,977; Apr. 17.
Cutler-Hammer Mfg. Co. (See Lightfoot, Edwin N., assignor.)
Czaran, Otto, Long Island City, N. Y. Apparatus for making belting. 1,451,686; Apr. 17.
Dahl, Conrad, assignor to D. M. Carter, trustee, Chicago, Ill. Occupant-steered vehicle. 1,451,868; Apr. 17.
Dahl, Conrad, assignor to D. M. Carter, trustee, Chicago, Ill. Vehicle wheel. 1,451,867. Apr. 17.
Daimler-Motoren-Gesellschaft. (See Schwerdtfeger, Walter, assignor.)
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Packing for steam turbines. 1,452,147; Apr. 17.
Danneel, Heinrich. (See Tommasi, C., Sandholm, Danneel, and Busch.)
Davenport, Ransom W., assignor to Jeffery-Dewitt Company, Detroit, Mich. Rapid decorating firing furnace or kiln. 1,451,815; Apr. 17.
David, Otto, Far Rockaway, N. Y. Girdle for women's apparel. 1,452,148; Apr. 17.
Davis, Harold S., Pittsburgh, Pa., assignor to Texas Gulf Sulfur Company, Bay City, Tex. Burning sulfur. 1,451,763; Apr. 17.
Davis, Sidney, Lankershim, Calif. Gopher trap. 1,452,028; Apr. 17.
Davis, Walter T., assignor to Wheeling Stamping Company, Wheeling, W. Va. Purifying molten metal. 1,452,364; Apr. 17.
Davy, Charles F., Syracuse, N. Y. Lowering device. 1,452,070; Apr. 17.
Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
Decker, Joseph T. (See Hampton, I. M., and Decker.)
Decker, Louis J. (See Hampton, I. M., and Decker.)
Deere & Company. (See White, Charles E., assignor.)
De Francisco, Marshall. (See Holbrook, J. K., and De Francisco.)
Dehouck, Joseph, Thielt, Belgium. Aeroplane assuring automatically the lateral and longitudinal stability. 1,452,071; Apr. 17.
De Land, Daniel B., Fairport, assignor to American Can Company, New York, N. Y. Key-opening can. 1,451,869; Apr. 17.
De Laval Separator Company, The. (See Hall, Selden H., assignor.)

Dentten, Walter E., Milwaukee, Wis. Shoe last. 1,452,237; Apr. 17.
Det Tekniske Forsøgsaktieselskab. (See Goldschmidt, Rudolf, assignor.)
Deuel, Sanford H., Oakland, Calif. Construction of coffins. 1,452,029; Apr. 17.
Dever, Henry L., assignor to Owensboro Ditcher & Grader Company, Owensboro, Ky. Road grader and ditcher. 1,452,365; Apr. 17.
De Voe, Albert H., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,452,072; Apr. 17.
De Wallace, Harry, Syracuse, N. Y., assignor to J. B. Wise Incorporated. Waste fitting for sinks. 1,451,943; Apr. 17.
Dick, Seward J., Clymer, Pa. Bracket. 1,451,764; Apr. 17.
Diegel, John M., Minneapolis, Minn. Electrical signaling and recording system. 1,451,900; Apr. 17.
Dobbin, Henry F., assignor to Western Electric Company, Incorporated, New York, N. Y. Centrifugal governor. 1,452,266; Apr. 17.
Doland, Samuel M. (See Van Duyne, Simeon, assignor.)
D'Ollier, William L. (See Geiger, Eugen, assignor.)
Dolphin, Mary C. R., Bloomfield, Nebr. Bodkin. 1,452,030; Apr. 17.
Donaldson, Joseph W. (See Clum, Frederick H., assignor.)
Donat, Joseph L., Chicago, Ill. Resilient tire. 1,452,293; Apr. 17.
Donat, Joseph L., Chicago, Ill. Resilient wheel. 1,452,294; Apr. 17.
Donat, Joseph L., Chicago, Ill. Resilient wheel for vehicles. 1,452,291; Apr. 17.
Donat, Joseph L., Chicago, Ill. Resilient wheel for vehicles. 1,452,292; Apr. 17.
Dooner, James J., Norristown, assignor of one-half to J. J. Farren, Philadelphia, Pa. Locking device for gas valves. 1,451,944; Apr. 17.
Doty, Chester C., Danville, and C. W. Coffey, Monticello, Ky. License plate. 1,451,765; Apr. 17.
Dow Chemical Company, The. (See Stewart, Leroy C., assignor.)
Dow, Harry E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Electrically-heated burnishing machine. 1,451,687; Apr. 17.
Dowell, William. (See Stockton, William A., assignor.)
Draper Corporation. (See Couser, Isaac, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Driemeyer, Edward W., assignor to The K-D Lamp Company, Cincinnati, Ohio. Lock for lamp doors. 1,451,870; Apr. 17.
Dunford & Elliott (Sheffield) Limited. (See Watton, Harold E., assignor.)
Duplex Transmission Company. (See Stumpenhorst, John A., assignor.)
Durgin, Charles B. (See Ross, W. H., Durgin, and Jones.)
Duro Pump and Manufacturing Company, The. (See Larsh, Everett P., assignor.)
Dusinberre, George B., Elmira, N. Y. Electrical testing clip. 1,452,194; Apr. 17.
Dzmitrowicz, Peter. (See Brecel, Edward, assignor.)
Earl, Charles M., and B. F. Wheeler, Detroit, Mich. Beverage-dispensing device. 1,451,688; Apr. 17.
Eaton, James M., et al., trustees. (See Gifford, Richard T., assignor.)
Eckermann, Leo A., assignor to Kales Stamping Company, Detroit, Mich. Timer for internal-combustion engines. 1,452,419; Apr. 17.
Eddy, Edgar D., Toronto, Ontario, Canada. Apparatus for separating seeds. 1,452,457; Apr. 17.
Edgar, Frank M., and T. F. Archer, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Windshield pivot. 1,451,978; Apr. 17.
Edwards, Jose S., Helper, Utah. Automobile rim. 1,452,073; Apr. 17.
Egan, Naomi, Redding, Calif. Collapsible roost. 1,452,366; Apr. 17.
Egry Register Company, The. (See Wimmers, August A., assignor.)
Ekberg, Lender, Vasteras, Sweden. Rail joint. 1,451,766; Apr. 17.
Eklund, Oscar F., Worcester, Mass. Belt shipper. 1,451,945; Apr. 17.
Electric Auto-Lite Company. (See Patterson, Harry R., assignor.)
Electric Auxiliaries Company. (See Herz, Alfred, assignor.)
Elektrizitatswerk Lonza. (See Gütlin, Hermann, assignor.)
Elektrizitatswerk Lonza. (See Tommasi, C., Sandholm, Danneel, and Busch, assignors.)
Elgin Street Sweeper Co. (See Martin, Elmer R., assignor.)
Ellingson, Hans, Hamilton, Ohio. Lock nut. 1,452,367; Apr. 17.
Elliott, Henry D., Tabor, N. C. Transplanting device. 1,452,110; Apr. 17.
Ellis, Carleton, Montclair, N. J. Making nickel formate. 1,452,478; Apr. 17.
Elrod, Henry E., Dallas, Tex. Incinerator. 1,452,031; Apr. 17.
Emerson-Brantingham Company. (See Waterman, L. E., Traphagen, and Waterman, assignors.)
Erb, Samuel, Tacoma, Wash. Log-carriage-offsetting mechanism. 1,452,149; Apr. 17.
Erickson, Frederic W., Tarrytown, N. Y. Coupling for pipes, conduits, etc. 1,452,268; Apr. 17.
Esche, Herbert E., Chemnitz, Germany. Machine-made seam for knitted materials and the like. 1,452,195; Apr. 17.
Esler Electric Manufacturing Company. (See Esler, Samuel M., assignor.)
Esler, Samuel M., Chicago, Ill., assignor to Esler Electric Manufacturing Company, Marion, Ind. Connecting device for electric circuits. 1,452,267; Apr. 17.
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Composite ringer for multiplex transmission systems. 1,451,767; Apr. 17.
Evans, Guy J., Buffalo, N. Y. Stencil. 1,451,816; Apr. 17.
Evans, Guy J., Buffalo, N. Y. Stencil. 1,451,817. Apr. 17.
Evans, Thomas N., London, England. Loose-letter sign and the like. 1,452,074; Apr. 17.
Evenson, Oscar, Rio, Wis. Hot-water attachment for stoves. 1,452,368; Apr. 17.
Ewart, John S. (See Clifton, W. E., and Ewart.)
Fageol, Frank R., Oakland, Calif. Automobile body. 1,452,369; Apr. 17.
Falls, James M., Louisville, Ky. Container. 1,451,768; Apr. 17.
Farren, John J. (See Dooner, James J., assignor.)
Farrington, John F., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator for signaling systems. 1,452,032; Apr. 17.
Faurot, Joseph A. (See Wolfe, C. L., and Faurot.)
Fauser, Gustave M., assignor to Tingue Manufacturing Company, New York, N. Y. Woven fabric. Des. 62,215; Apr. 17.
Fauser, Gustave M., assignor to Tingue Manufacturing Company, New York, N. Y. Woven fabric. Des. 62,216; Apr. 17.
Fauser, Gustave M., assignor to Tingue Manufacturing Company, New York, N. Y. Woven fabric. Des. 62,217; Apr. 17.
Fauser, Gustave M., assignor to Tingue Manufacturing Company, New York, N. Y. Woven fabric. Des. 62,218; Apr. 17.
Fauser, Gustave M., assignor to Tingue Manufacturing Company, New York, N. Y. Woven fabric. Des. 62,219; Apr. 17.
Fenby, Edgar B., Leamington Spa, England. Machine for use in the manufacture of linen collars and the like. 1,452,111; Apr. 17.
Fergusson, Alan R., Buffalo, N. Y. Toy railway. 1,452,370; Apr. 17.
Fenn, Thomas H., assignor of one-half to T. Foulkes, Cleveland, Ohio. Electric-conductor coupling. 1,451,979; Apr. 17.
Field, Crosby, Yonkers, assignor to Chemical Machinery Corporation, New York, N. Y. Apparatus for transferring heat. 1,451,901; Apr. 17.
Field, Crosby, Yonkers, assignor to Chemical Machinery Corporation, New York, N. Y. Heat-transferring apparatus. 1,451,903; Apr. 17.
Field, Crosby, Yonkers, assignor to Chemical Machinery Corporation, New York, N. Y. Heat-transferring apparatus. 1,451,904; Apr. 17.
Field, Crosby, assignor to Chemical Machinery Corporation, New York, N. Y. Separating a brittle product from a base. 1,451,902; Apr. 17.
Fifield, Albert F., Newark, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling device. 1,452,033; Apr. 17.
Filby, James C. (See Yoders, I. G., and Filby.)
Finkeldey, William H. (See Breyer, T. G., and Finkeldey.)
Finnigan, John J., Atlanta, Ga. Making flanged tank couplings. 1,452,238; Apr. 17.
Fisher Body Corporation. (See Rissmann, Paul, assignor.)
Fisher, George J. (See Fox, H. K., and Fisher.)
Fjord Company, The. (See Ross, Harry B., assignor.)
Fleming, James R., Scranton, Pa. Mining-car truck. 1,451,690; Apr. 17.
Fleming, James R., Scranton, Pa. Tight and loose wheel. 1,451,689; Apr. 17.
Flowers, William J., Complete, Miss. Rope and cable tie. 1,452,338; Apr. 17.
Ford, Ralph L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Latch mechanism. 1,452,479; Apr. 17.
Forkardt, Paul, Dusseldorf-Oberkassel, Germany. Centering device. 1,452,034; Apr. 17.
Forster, John C., Pittsburgh, Pa. Gyroscopic top and making same. 1,451,818; Apr. 17.
Foster, Charles J., Higby, and R. D. Simpson, Columbus, Ohio. Fastener for vehicle curtains. 1,452,150; Apr. 17.
Foulkes, Thomas. (See Fenn, Thomas H., assignor.)
Fowler, Lewis D., Oklahoma, Okla. Automobile radiator. 1,451,871; Apr. 17.
Fox, Harold K., Fresno, and G. J. Fisher, Big Creek, Calif. Concrete-mixing machine. 1,451,819; Apr. 17.
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Franklin, E. I., & Co. (See Willis, Warren E., assignor.)

Franquist, Gustave E., assignor to James Cunningham, Son & Company, Rochester, N. Y. Fastening device. 1,452,196; Apr. 17.
Franzengerle Company. (See Zengerle, Walter C., assignor.)
Frederick, Howard F., Detroit, Mich. Pump-actuating mechanism. 1,451,691; Apr. 17.
Freeman, Harold A., Los Angeles, Calif. Silencer. 1,452,035; Apr. 17.
French & Hecht. (See Hecht, Joseph L., assignor.)
French, Henry W., Chicago, Ill. Clamp. 1,451,692; Apr. 17.
French, James C., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Tractor-wheel chain. 1,451,872; Apr. 17.
Frey, Herman A., Champaign, Ill. Horseshoe. 1,451,905; Apr. 17.
Fried. Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
Fried. Krupp Aktiengesellschaft. (See Böhle, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Bruhn, Gustav A., assignor.)
Fried. Krupp Aktiengesellschaft. (See Lauer, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Lehmann, Karl A., assignor.)
Frozeth, Ernst E., and T. Blixt, Minneapolis, Minn. Fire arch for furnaces. 1,452,295; Apr. 17.
Fry, Harry M., Johnstown, Pa. Tire tread. 1,451,820; Apr. 17.
Fulda, Edward. (See Lachman, L. S., and Fulda.)
Fulda, Edward, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Welded steel wheel. 1,452,036; Apr. 17.
Funnell, Harry M., Bloomfield, Conn. Universal joint. 1,451,946; Apr. 17.
Gaines, Edward C. (See Vaughan, H. H., and Gaines.)
Garceau, Harry J., assignor to Warner Gear Company, Muncie, Ind. Automobile lock. 1,451,821; Apr. 17.
Geiger, Eugen, Karlsruhe, Germany, assignor to W. L. D'Ollier, New York, N. Y. Cleaning brush. 1,452,458; Apr. 17.
Gellman, Israel C., Chicago, Ill. Adjustable socket wrench. 1,451,873; Apr. 17.
Gellman, Israel C., Chicago, Ill. Wrench. 1,451,906; Apr. 17.
General Engineering Company, The, et al. (See Genter, A. L., and Jones, assignors.)
Genter, Albert L., and G. C. Jones, assignors of one-half to The General Engineering Company and one-half to A. L. Genter, Salt Lake City, Utah. Continuous thickening process. 1,452,151; Apr. 17.
Genter, Albert L., et al. (See Genter, A. L., and Jones, assignors.)
Gifford, Richard T., Springfield, assignor to E. N. White, J. L. Wyckoff, and J. M. Eaton, trustees, Holyoke, Mass. Holding latch for truck steering handles. 1,451,907; Apr. 17.
Gilchrist Company, The. (See Gilchrist, Raymond B., assignor.)
Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,452,197; Apr. 17.
Gingerick, Kent S., Urbana, assignor to R. T. Parrish, Dayton, Ohio. Tractor wheel. 1,451,769; Apr. 17.
Ginther, Anthony E., Philadelphia, Pa. Truck or wagon body. 1,452,371; Apr. 17.
Glaholt, Carl, Union, N. Dak. Dirigible headlight. 1,451,698; Apr. 17.
Gleasner, William J., Kenmore, N. Y. Asphalt-cutting tool. 1,452,037; Apr. 17.
Gloub, John. (See Spitzer, C. S., and Gloub.)
Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordrup, Charlottenlund, Denmark. Mechanism for converting rotary into oscillatory motion. 1,452,038; Apr. 17.
Gomez, Joaquin S., Washington, D. C. Surgical suturing device. 1,452,372; Apr. 17.
Gómez, Joaquin S., Washington, D. C. Surgical ligature and means for applying the same. 1,452,373; Apr. 17.
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodrich, B. F., Company, The. (See Haren, Urban, assignor.)
Goodrich, B. F., Company, The. (See Kepler, I. F., and Robb, assignors.)
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,452,269; Apr. 17.
Goolman, Fred R., Syracuse, N. Y., assignor, by mesne assignments, to Mimmo Toy Company, Inc. Toy player piano. 1,452,112; Apr. 17.
Gottlieb, Abraham. (See Simon, D., and Gottlieb.)
Gottschalk, Karl P., Dresden, assignor to H. Staier, Grunau, near Rosswein, Saxony, Germany. Apparatus for impregnating matches of wood, pasteboard, paper, or the like with paraffin. 1,452,374; Apr. 17.
Gottschalk, Karl P., Dresden, assignor to H. Staier, Grunau, near Rosswein, Saxony, Germany. Apparatus for adjusting and fixing the setting or straddling of partly-cut matches of paper, pasteboard, or the like and still connected in the shape of a continuous strip or band. 1,422,375; Apr. 17.
Gottschalk, Karl P., Dresden, assignor to H. Staier, Grunau, near Rosswein, Saxony, Germany. Filling apparatus for match-dipping machines. 1,452,376; Apr. 17.
Gould, Fred J., Springfield, Mass. Stone-surfacing machine. 1,452,113; Apr. 17.
Graham, Henry W. B., deceased, New London, Ohio; M. Graham, executrix; said Henry W. B. Graham assignor to The Arnold-Creager Company, New London, Ohio. Brick-making apparatus. 1,452,152; Apr. 17.
Graham, Margaret, executrix. (See Graham, Henry W. B.)
Gravell, James H., Elkins Park, Pa. Leakproof liquid container. 1,452,039; Apr. 17.
Gravely, Julian S., Wytheville, Va., assignor to Winchester Repeating Arms Co., New Haven, Conn. Paper shot shell. 1,452,040; Apr. 17.
Gray, William E., Chicago, Ill. Lemon squeezer. 1,452,270; Apr. 17.
Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Seat spring. 1,452,041; Apr. 17.
Greenfield, Joseph W., and W. Waller, St. Paul, Minn. Ball-throwing toy. 1,452,459; Apr. 17.
Greiner, Walter J. (See Steffan, W. C., Ackermann, and Greiner.)
Greuter, Henry J., Fairfield, Conn. Cue-tip fastener. 1,452,420; Apr. 17.
Grenier, John O., Vancouver, British Columbia, Canada. Direction indicator for automobiles and other vehicles. 1,452,114; Apr. 17.
Grignon, Robert. (See Oberley, C. G., and Grignon.)
Grimm, Morris. (See Bell, L. G., and Grimm.)
Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
Gugliuzzi, Nicholas, Ansonia, Conn. Window shade fixture. 1,451,947; Apr. 17.
Guilford Mfg. Co., The. (See Chapman, Norton W., assignor.)
Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatic action. 1,451,980; Apr. 17.
Gütlin, Hermann, Basel, assignor to Elektrizitatswerk Lonza, Gampel, Switzerland. Utilizing solid fuel. 1,452,239; Apr. 17.
Gutsell, Hiram S., Ithaca, N. Y. Automobile buffer. 1,451,874; Apr. 17.
Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction. 1,452,271; Apr. 17.
Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction. 1,452,272; Apr. 17.
Haeberlein, Max, Maplewood, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Wicket gate-adjusting means. 1,451,694; Apr. 17.
Hagens, G. R., et al. (See Porter, C. A., and Brewster, assignors.)
Hagerty, Robert J., assignor of one-half to F. H. Hebron and one-half to T. C. Kelly, Philadelphia, Pa. Nursing bottle. 1,451,822; Apr. 17.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine relay. 1,452,153; Apr. 17.
Halvorsen, Olaf, and A. H. Johnson, Chicago, Ill.; said Johnson assignor to said Halvorsen. Leather-stamping machine. 1,452,421; Apr. 17.
Hamilton, Frank S., Boston, Mass. Lock nut. 1,452,422; Apr. 17.
Hammer, Hans O., Chicago, Ill. Tuning device for stringed musical instruments. 1,452,075; Apr. 17.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine catch and release for firearms. 1,452,042; Apr. 17.
Hammond Typewriter Company, The. (See Noack, Carl O., assignor.)
Hamon, Marius A., Paris, France. Apparatus for preventing the stealing of motor cars. 1,452,240; Apr. 17.
Hampton, Isaac M., J. T. Decker, and L. J. Decker, Hartford, Ill. Portable refrigerator. 1,451,823; Apr. 17.
Hancock, George L., Geneva, N. Y. Dumping car. 1,452,198; Apr. 17.
Hanselman, Arthur H., St. Paul, Minn. Fishhook. 1,452,377; Apr. 17.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic liquid valve. 1,452,155; Apr. 17.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation release for rock drills. 1,452,154; Apr. 17.
Hanson, Henry, assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn. Bilge pump. 1,452,378; Apr. 17.
Harburg, James E., assignor to Yerrick Manufacturing Co., Denver, Colo. Tool. 1,451,727; Apr. 17.
Hardy, F. A., & Company. (See Howe, Thomas M., assignor.)
Haren, Urban, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for building laminated strips. 1,452,379; Apr. 17.

Harley-Davidson Motor Co. (See Harley, William S., assignor.)
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Combined engine shaft, clutch, and transmission. Re. 15,578; Apr. 17.
Harmon, James B., Helena, Mont. Vehicle wheel. 1,452,423; Apr. 17.
Harrington, Edwin, Son & Company. (See Scott, Robert F., assignor.)
Harris Automatic Press Company. (See Harrold, Charles W., assignor.)
Harris, Hu M., Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, New York, N. Y. Bull and calf wheel. 1,451,770; Apr. 17.
Harrold, Charles W., assignor to The Harris Automatic Press Company, Cleveland, Ohio. Inking mechanism. 1,452,043; Apr. 17.
Hart, Harry S., Chicago, Ill. Plate-metal car ends. 1,451,948; Apr. 17.
Hart, Thomas I., St. Louis, Mo. Tag. 1,452,460; Apr. 17.
Hasalt, Max, Dresden, Germany, assignor to Aktiebolaget Ars, Stockholm, Sweden. Adjustable scene portal in theaters. 1,452,424; Apr. 17.
Haseltine, William E., Ripon, Wis. Glove. 1,451,940; Apr. 17.
Haskell, Broderick, Franklin, Pa. Load-controlled air brake. 1,452,199; Apr. 17.
Hass, Martin F., Wilkes-Barre, Pa. Attachment for thread doubling and twisting machines. 1,451,771; Apr. 17.
Hatch, Frank E., Rutherford, N. J. Box-covering machine. 1,451,908; Apr. 17.
Hatfield, Andrew L., Hillside, N. J. Dishwashing machine. 1,452,156; Apr. 17.
Hatton, Thomas F., Indianapolis, Ind. Oil heater. 1,451,772; Apr. 17.
Hausman, George J., and A. J. Jones, Cincinnati, Ohio. Shifter for belts on cone pulleys. 1,452,044; Apr. 17.
Havener, Arthur R., Wayland, Mass., assignor to American Lacing Hook Co. Stop mechanism. 1,451,728; Apr. 17.
Hawley, Charles G., Chicago, Ill. Apparatus for furnace-slag disposal. 1,452,045; Apr. 17.
Hawley, Charles G., Chicago, Ill. Liquid-fuel furnace. 1,452,380; Apr. 17.
Heany, John A., New Haven, Conn., assignor to Rockbestos Products Corporation, New York, N. Y. Apparatus for making asbestos yarn. 1,451,824; Apr. 17.
Hebron, Frank H., et al. (See Hagerty, Robert J., assignor.)
Hecht, Joseph L., Davenport, assignor to G. W. French, J. L. Hecht, Davenport, Iowa, and W. H. Stackhouse, Springfield, Ohio, composing the Firm of French & Hecht. Making metal wheel hubs. 1,452,200; Apr. 17.
Helder, Henry J., Carroll, Iowa. Roller bearing. 1,451,825; Apr. 17.
Helsing, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical discharge device. 1,452,339; Apr. 17.
Heller, Max, Berlin-Charlottenburg, Germany. Metal-scouring and ungreasing device. 1,451,981; Apr. 17.
Heller, Milton L., Brooklyn, N. Y. Waistband. 1,452,201; Apr. 17.
Hemingway, James T., Woonsocket, R. I. Cap-spindle washer. 1,452,425; Apr. 17.
Henry, Charles F., and J. M. Hulett, assignors to National Sewing Machine Company, Belvidere, Ill. Mechanical movement and base therefor. 1,452,273; Apr. 17.
Henry Furnace and Foundry Company, The. (See Novak, Joseph, assignor.)
Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Cooker. 1,451,729; Apr. 17.
Henry, Reeves, Forney, Tex. Cotton-chopping machine. 1,452,046; Apr. 17.
Henschel, Charles J., Brooklyn, N. Y. Indicator motor. 1,452,157; Apr. 17.
Hermann, Charles, Brooklyn, N. Y. Automobile signal device. 1,451,909; Apr. 17.
Herron, Wingo, and J. H. Jester, Augusta, Ga. Split hub head for cylinders for spinning frames, spoolers, and cylinders of like nature. 1,451,982; Apr. 17.
Herz, Alfred, Chicago, Ill., assignor to Electric Auxiliaries Company, Dover, Del. Dimming mechanism. 1,452,115; Apr. 17.
Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry and Machine Company. Portable elevator. 1,451,773; Apr. 17.
Heskett, Chris, Indianapolis, Ind. Nonpreheating oil burner. 1,451,950; Apr. 17.
Hess-Bright Manufacturing Company, The. (See Brunner, Harold E., assignor.)
Heue, Joseph H., Carroll, Iowa. Door and window buck. 1,452,116; Apr. 17.
Heyman, Laurence J. (See Neal, Robert A., assignor.)
Heys, John J., Lynn, Mass., assignor, by mesne assignments to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for measuring bodies. 1,451,730; Apr. 17.
Higdon, Robert W., Atlanta, Ga. Pipe joint. 1,451,731; Apr. 17.
Hildebrand, Walter S., Mount Union, Pa. Means for filling molds. 1,452,381; Apr. 17.
Hileman, George H. (See Leahy, F. C., and Hileman.)
Hill, Curtiss L., Dayton, Ohio. Refrigerating apparatus. 1,452,461; Apr. 17.
Hills, William F., Mountain View, and W. H. Chard, Palcines, Calif. Superheater. 1,452,382; Apr. 17.
Hipwood, George, New York, assignor to F. C. Mayle, Niagara Falls, N. Y. Fish-rod holder. 1,451,732; Apr. 17.
Hobart Manufacturing Company, The. (See Rataiczak, Thomas F., assignor.)
Hobbs, William N., Kensington, Kans. Device for weighing animals and for indicating dosage. 1,451,926; Apr. 17.
Hobson, Ota O., Vinton, Iowa. Resilient wheel. 1,451,827; Apr. 17.
Hodgson, Raymond, Freeport, N. Y. Safety plug for water-tube boilers. 1,452,047; Apr. 17.
Hoe, R., and Co. (See Zuckerman, Adolph M., assignor.)
Hoener, Frederick, assignor to W. Modra, St. Louis, Mo. Supporting bracket for automobile visors. 1,451,605; Apr. 17.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Portable oil heater. 1,451,910; Apr. 17.
Holbrook, John K., New York, N. Y., and M. De Francisco, Jersey City Heights, assignors to D. S. Pinnb, East Orange, N. J. Two-color photography. 1,451,774; Apr. 17.
Holmes, Edward. (See Lightner, A. D., and Holmes.)
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Dobby lever. 1,451,828; Apr. 17.
Holmes, Lora E., Moultrie, Ga. Convertible furniture. 1,452,117; Apr. 17.
Holworthy, Herbert F., Salop, England. Sparking plug for internal-combustion engines. 1,452,118; Apr. 17.
Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. 1,452,158; Apr. 17.
Horrocks, Williams A., Wilton, Me. Motor sleigh. 1,451,733; Apr. 17.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Vacuum hinge-cover container. 1,451,875; Apr. 17.
Houghton, Lewis T., Worcester, Mass. Quiller-wire holder. 1,452,119; Apr. 17.
Houseman, James A., York, Pa. Hedge trimmer. 1,452,402; Apr. 17.
Housekeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Making leading-in conductors. 1,452,275; Apr. 17.
Housekeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Pressure gauge. 1,452,274; Apr. 17.
Howard, Hasting P., Memphis, Tenn. Store ladder. 1,452,076; Apr. 17.
Howard, Otis W., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Controlling mechanism for tractors. 1,452,296; Apr. 17.
Howard, Otis W. (See Shonts, L. C., and Howard.)
Howe, Thomas M., Louisville, Ky., assignor to F. A. Hardy & Company, Chicago, Ill. Ophthalmic mounting. 1,451,696; Apr. 17.
Howland, Henry P., and F. A. Wiley, Chicago, Ill., assignors, by mesne assignments, to International Harvester Company. Safety device for hot-blast stoves. 1,452,297; Apr. 17.
Hubbard, Gwendolen B. N. E., Hollywood, Calif. Educational toy. 1,452,340; Apr. 17.
Hubbard, William B., Smithboro, Ill. Spindle. 1,451,829; Apr. 17.
Huber, Frederick W., Riverside, Calif. Method and composition for cementing oil wells. 1,452,463; Apr. 17.
Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Apparatus for positioning the printing plates on the plate holders of photographic-printing machines. 1,452,078; Apr. 17.
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-projection printing apparatus. 1,452,077; Apr. 17.
Huestis, Charles A., Elmhurst, N. Y. Tool holder. 1,452,241; Apr. 17.
Hulett, John M. (See Henry, C. F., and Hulettt.)
Hunt, Seth B., trustee. (See Mann, Matthew D., jr., assignor.)
Hurley, Roy T. (See Blodgett, G. R., Cheney, and Hurley.)
Husch, George S. (See Husch, S. B. and G. S.)
Husch, Sylvester B., New York, and G. S. Husch, Brooklyn, N. Y. Toothbrush. 1,451,775; Apr. 17.
Hutcheson, S. C., et al. (See Cleveland, Benjamin L., assignor.)
Hutchins, Frederick. (See Balls, W. L., and Hutchins.)
Ikerman, Frederick, et al. (See Ikerman, Wayne E., assignor.)
Ikerman, Wayne E., assignor of forty one-hundredths to B. Reinike and five one-hundredths to F. Ikerman, Long Beach, Miss. Aerial train. 1,451,830; Apr. 17.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Independent Stove Co., The. (See Robinson, William V., assignor.)
Industrial Research Corporation. (See Green, Charles F., assignor.)

Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
International Harvester Company. (See Bozard, H. B., and Robinson, assignors.)
International Harvester Company. (See Charles, Edward S., assignor.)
International Harvester Company. (See Ford, Ralph L., assignor.)
International Harvester Company. (See Howland, H. P., and Wiley, assignors.)
International Harvester Company. (See Kaspari, Mathias J., assignor.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
Irving, Joseph, Bisbee, Ariz. Leaching of copper ores and recovery of copper. 1,451,734; Apr. 17.
Irwin, Robert U., Oshawa, Ontario, Canada. Sharpening device. 1,451,831; Apr. 17.
Irwin, Roy H., Seattle, Wash. Building construction. 1,452,426; Apr. 17.
Isaacs, Sebright B., Kansas City, Mo. Spoon. 1,452,464; Apr. 17.
J. H. & F. A. Sells Company, The. (See Woodward, John H., assignor.)
Jacquemin, Victor, St. Louis, Mo. Combined paper clip and envelope opener. 1,452,341; Apr. 17.
Jaeger, Carl W., Westby, Wis. Time indicator. 1,451,983; Apr. 17.
Jaquette, Grantham, Philadelphia, Pa. Meat-slicing machine. 1,451,776; Apr. 17.
Jeanblanc, Abel F. (See Sandberg, S. A., and Jeanblanc.)
Jeffery-Dewitt Company. (See Davenport, Ransom W., assignor.)
Jeffres, Lynn, Greeley, Nebr. Cultivator attachment. 1,451,697; Apr. 17.
Jensen, Thomas P., Racine, Wis. Counter. 1,452,242; Apr. 17.
Jerdone, Francis, jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. 1,452,276; Apr. 17.
Jerome, George C., Chicago, Ill. Packaging rod packing in combustible material for unsweating the same. 1,452,159; Apr. 17.
Jesperson, Joseph. (See Parker, W. S., and Jesperson.)
Jester, Joseph H. (See Herron, W., and Jester.)
Jewett, John R., jr., Wood River, Nebr. Rural mail box. 1,451,876; Apr. 17.
Jobst, Gerhard, Wilmersdorf, Germany. Device for readily fastening together loose leaves of paper. 1,451,777; Apr. 17.
Johnson, Albion H. (See Halvorsen, O., and Johnson.)
Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone substation set. 1,452,277; Apr. 17.
Johnson, Nels, Racine, Wis. Bicycle rim. 1,451,911; Apr. 17.
Johnson, Tomlinson F., jr., Atlanta, Ga. Manipulating stick for clamps, switches, etc., in electric distributing systems. 1,451,832; Apr. 17.
Johnston, Millard L., Utica, N. Y. Actuator for machine guns. 1,452,465; Apr. 17.
Jones, Albert J. (See Hausman, G. J., and Jones.)
Jones, Clayton M., Jamestown, N. Y. Wrench. 1,452,079; Apr. 17.
Jones, George C. (See Genter, A. L., and Jones.)
Jones, Grayson, Nashville, Tenn. Pipe bender or elbow former. 1,452,383; Apr. 17.
Jones, James T., Maidenhead, England. Resilient-tired wheel. 1,452,342; Apr. 17.
Jones, Russell M. (See Ross, W. H., Durgin, and Jones.)
Jones, William T., Omar, W. Va. Loader. 1,452,080; Apr. 17.
Jones, Willis O., Louisville, Ky. Chair desk. 1,452,343; Apr. 17.
Jordan, Francis R., Boone, Iowa. Glue container and brush holder. 1,451,984; Apr. 17.
Jory, William E., Martinez, Calif. Internal-combustion engine. 1,452,202; Apr. 17.
Juengling, Karl F., Lakewood, Ohio. Automatic stoker. 1,452,081; Apr. 17.
K-D Barrel & Hamper Co., The. (See Walker, Joseph L., assignor.)
K-D Lamp Company, The. (See Driemeyer, Edward W., assignor.)
Kaelble, Herman F., Egg Harbor City, N. J. Transmission lock. 1,452,203; Apr. 17.
Kahlow, Arthur, Mayville, Wis. Handle for traveling bags. 1,452,243; Apr. 17.
Kales Stamping Company. (See Eckermann, Leo A., assignor.)
Kaniuk, Michael, Boyerton, Pa. Dish or vessel cover. Des. 62,227; Apr. 17.
Kaniuk, Michael, Boyertown, Pa. Milk boiler. 1,452,344; Apr. 17.
Kaspari, Mathias J., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Controlling mechanism for balling machines. 1,452,298; Apr. 17.
Katzick, Oscar S., Bridgeport, Conn. Ice-cream cone. Des. 62,220; Apr. 17.
Kauffmann, Ferdinand E., Rahway, N. J. Hat-clipping machine. 1,452,048; Apr. 17.
Kauffmann, Ferdinand E., Rahway, N. J. Machine for finishing the edges of hat brims. 1,452,049; Apr. 17.
Kaurich, John, Milwaukee, Wis. Accident-proof automobile fender. 1,451,833; Apr. 17.
Keith, Alexander E., Hinsdale, assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Telephone trunking system. 1,451,912; Apr. 17.
Kelber, Edward, Harriman, Pa. Windshield cleaner. 1,451,698; Apr. 17.
Keller, John W., and R. S. Congar, Lorimore, Iowa. Damper. 1,451,985; Apr. 17.
Kelley, George B. (See Scruby, George E., assignor.)
Kellogg, Carl A., Brooklyn, N. Y. Inking mechanism for printing presses. 1,452,050; Apr. 17.
Kellogg, Carl A., Brooklyn, N. Y. Inking mechanism for printing presses. 1,452,051; Apr. 17.
Kelly Springfield Tire Co. (See McClenathen, Robert, assignor.)
Kelly, Thomas C., et al. (See Hagerty, Robert J., assignor.)
Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Printing press. 1,452,466; Apr. 17.
Kent, Orion E., Reed City, Mich. Mandrel. 1,451,699; Apr. 17.
Kepler, Irwin F., and A. A. Robb, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tire structure for tractors. 1,452,345; Apr. 17.
Kettlitz, Edward W., New York, and G. Kuhn, St. Albans, N. Y. Automobile bumper. 1,452,427; Apr. 17.
Keystone Steel & Wire Company. (See Sommer, Henry G., assignor.)
Keystone Steel & Wire Company. (See Sommer, John, assignor.)
Kildow, Pickett G., Iowa Park, Tex. Sucker-rod-elevating device. 1,451,700; Apr. 17.
Kilpatrick, Robert L., Hempstead, Tex. Variable sign. 1,451,986; Apr. 17.
Kind, Hermann, Stapleton, N. Y. Display container and holder. 1,452,278; Apr. 17.
Kingswell, Percy N. (See Clews, C. E., and Beere, assignors.)
Kinney, Andrew S., Redwood Falls, Minn. Slot-closure mat for automobiles. 1,451,987; Apr. 17.
Kissendorfer, Karl, assignor to Waffenfabrik Mauser, A. G., Oberndorf-on-the-Neckar, Germany. Screw clamp. 1,452,384; Apr. 17.
Klein, Bernat M., and S. Wald, New York, N. Y. Shoestring fastener. 1,451,988; Apr. 17.
Kline, Clarie B. (See Bahr, August T. J., assignor.)
Kline, Everett C., assignor to The Laminated Metal Products Company, Cincinnati, Ohio. Lock and lock mounting. 1,452,471; Apr. 17.
Knowlton, Eugene W., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Butter-blocking machine. 1,452,160; Apr. 17.
Kochler, John E., and R. Paul, Chicago, Ill. Advertising device. 1,451,877; Apr. 17.
Kokke, Evert, Duluth, Minn. Vehicle wheel. 1,451,913; Apr. 17.
Kollar, George J., Whiting, Ind. Bath device. 1,451,878; Apr. 17.
Kongsrud, Ole, Minneapolis, Minn. Brake head and shoe for railway cars. 1,451,914; Apr. 17.
Kreimer, William J., St. Louis, Mo. Air compressor. 1,451,834; Apr. 17.
Kreissl, Frank N., Chicago, Ill., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,451,735; Apr. 17.
Kress, Claude W., New York, N. Y. Display window. 1,451,778; Apr. 17.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Pen or pencil case. Des. 62,221; Apr. 17.
Kryzanowsky, Constant J. (See Taylor, Samuel W., assignor.)
Kuhn, George. (See Ketilitz, E. W., and Kuhn.)
Kuenneth, George W., assignor, by mesne assignments, to J. Kuenneth Paterson, N. J. Tension-controlling means for beaming machines. 1,452,161; Apr. 17.
Kuenneth, Jeanette. (See Kuenneth, George W., assignor.)
Kupetz, Adolph G., New Rochelle, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. 1,452,162; Apr. 17.
Kuster, Charles E., administrator. (See Kuster, Frederick E., assignor.)
Kuster, Frederick E., deceased, Evansville, Ind.; C. E. Kuster, administrator. Tray-making machine. 1,452,346; Apr. 17.
Kyle, George B., assignor to The Measuregraph Company, St. Louis, Mo. Fabric measuring and cost computing machine. 1,452,279; Apr. 17.
La Belle, William E., St. Paul, assignor of one-half to T. Schadegg, Minneapolis, Minn. Folding veneer container. 1,451,980; Apr. 17.
La Chapelle, Frank, Pittsfield, Mass. Roll cleaner. 1,451,990; Apr. 17.
Lachman, Laurence S., and E. Fulda, New York, N. Y. Reel. 1,451,835; Apr. 17.
Lacke, William A., Chicago, Ill. Mechanism for stamping large hot-metal sheets. 1,451,879; Apr. 17.

Ladd-Davis, Clarence, assignor to himself and J. A. Taylor, joint trustees, Brooklyn, N. Y. Automatic fire extinguisher. 1,451,915; Apr. 17.

Ladd-Davis, Clarence, assignor to himself and J. A. Taylor, joint trustees, Brooklyn, N. Y. Automatic fire extinguisher for distributing aqueouslike fluent material. 1,451,916; Apr. 17.

Lamb, Richard, deceased, New York, N. Y.; S. E. Lamb, executrix, assignor to S. E. Lamb. Compensating filler for block paving. 1,452,120; Apr. 17.

Lamb, Sarah E. (See Lamb, Richard, assignor.)

Lamb, Sarah E., executrix. (See Lamb, Richard.)

Lambert, Byron J., Iowa City, Iowa. Grand-stand construction. 1,452,467; Apr. 17.

Laminated Metal Products Company, The. (See Kline, Everett C., assignor.)

Landroth, Henry M. (See Sterner, L. H., Landroth, and Sterner.)

Langdon-Meyer Laboratories. (See Meyer, Emanuel M., assignor.)

Lapham, Ralph E., Oakland, Calif. Centrifugal separator. 1,451,779; Apr. 17.

Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Racket for tennis and similar games. 1,451,836; Apr. 17.

Larsh, Everett P., assignor, by mesne assignments, to The Duro Pump and Manufacturing Company, Dayton, Ohio. Lubricating apparatus. 1,451,701; Apr. 17.

Larsson, Gustaf H., Svedala, Sweden. Adjustable tool holder. 1,452,082; Apr. 17.

Laska, August L., and A. Zitscher, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Black azo dyestuffs and making same. 1,452,083; Apr. 17.

Lauer, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Internal gauge. 1,451,736; Apr. 17.

Laughery, Mrs. E. A. (See Schultz, Edward, assignor.)

Leahy, Frank C., and G. H. Hileman, Detroit, Mich. Antiseptic container. 1,452,299; Apr. 17.

Lee, Leif, Youngstown, Ohio. Roll-balancing mechanism. 1,452,347; Apr. 17.

Lee, Ralston T., Marietta, Ohio. Drive-wheel rim. 1,451,991; Apr. 17.

Lee, Ross, Chaffee, Mo. Tool for inserting piston rings. 1,452,468; Apr. 17.

Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Test bench. 1,451,992; Apr. 17.

Lehmann, Karl A., Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Case-shift mechanism. 1,451,737; Apr. 17.

Leighton, George A., Roslindale, Mass., assignor to American Can Company, New York, N. Y. Blacking-box cover. 1,451,702; Apr. 17.

Leisge, William L., Atkinson, Nebr. Meter for milking apparatus. 1,451,738; Apr. 17.

Leissner, Harry F., Sodertalje, Sweden. Fuel-supply pump for internal-combustion engines. 1,452,428; Apr. 17.

Lemelin, George T., assignor of one-half to E. A. Menard, Springfield, Mass. Spring oiler. 1,452,429; Apr. 17.

Levy, Arthur B. (See Singer, J. B., and Levy.)

Levy, Henri G., San Francisco, Calif. Curling-iron heater. 1,452,163; Apr. 17.

Lewis, Frank M., London, England. Apparatus for cutting toothed gears. 1,452,121; Apr. 17.

Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heating appliance. 1,451,880; Apr. 17.

Lightner, Arthur D., and E. Holmes, assignor to The Willys-Overland Company, Toledo, Ohio. Elevating truck. 1,452,300; Apr. 17.

Lindgren, Alexus C., Evanston, Ill., assignor to International Harvester Company. Sulky plow. 1,452,301; Apr. 17.

Lipscomb, May B. (See Allen, Broadus S., assignor.)

Lloyd, Richard A. (See Miller, D. J. G., and Lloyd.)

Lockhart, Harold J., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Control mechanism for well-drilling machines. 1,452,244; Apr. 17.

Locomobile Company, The. (See Roos, Delmar G., assignor.)

Long Furniture Company. (See Weeks, John B., assignor.)

Loomis, Evarts G., assignor to St. Mungo Manufacturing Company of America, Newark, N. J. Ball-winding machine. 1,452,469; Apr. 17.

Loven, Carl, Portland, Oreg. Stocking. 1,452,302; Apr. 17.

Lucey Manufacturing Corporation. (See Harris, Hu M., assignor.)

Luckett, William S., Chestnut Hill, Pa. Golfing outfit. 1,452,084; Apr. 17.

Ludlow, George M., assignor to Sanitary Scale Company, Chicago, Ill. Computing scale with interchangable charts. 1,451,703; Apr. 17.

Luebker, Henry E., Plum City, Wis. Milking stool. 1,452,303; Apr. 17.

Luetcher, Oliver P., Peru, Ill. Separator for gaseous fluids. 1,452,204; Apr. 17.

Lumen Bearing Company. (See Patch, Nathaniel K. B., assignor.)

Lutkins, Beatrice C., Montclair, N. J. Earring. Des. 62,222; Apr. 17.

Lyon, George A., Philadelphia, Pa. Separable multiple unit bumper package. 1,451,780; Apr. 17.

Lyon, George A., Philadelphia, Pa. Bumper package. 1,451,781; Apr. 17.

McCann, George F., Jersey City, N. J. Doll. Des. 62,223; Apr. 17.

McCauley, James, New York, N. Y. Combined gas heat and light burner. 1,451,951; Apr. 17.

McClatchie, Stanley, Cambridge, Mass., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Attachment plug. 1,451,704; Apr. 17.

McClenathen, Robert, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Bead-making machine. 1,451,837; Apr. 17.

McConnel, William N., Milner, Idaho. Recorder. 1,452,122; Apr. 17.

McCormack, Edward J., San Francisco, Calif. Collapsible electric heater. 1,452,304; Apr. 17.

McCray, Cuge L., Norton, Va. Rail fastener. 1,451,838; Apr. 17.

McCrudden, John C. R., Hurstville, near Sydney, New South Wales, Australia. Machine gun. 1,452,123; Apr. 17.

McFarland, James, Tilin, Tex. Train stop. 1,451,952; Apr. 17.

McGrath, Hiram, McConnelsville, Ohio. Fan attachment for swings. 1,452,385; Apr. 17.

McLellan, Charles, Sioux City, Iowa. Rotary toothbrush. 1,451,993; Apr. 17.

McMullen, Joseph B., Catonsville, Md. Adjustable supporting bracket. 1,451,881; Apr. 17.

Macdonald, David B., Davenport, Iowa. Match box. 1,451,882; Apr. 17.

Macdonald, David B., Davenport, Iowa. Match box. 1,451,953; Apr. 17.

Machol, David J., West New Brighton, N. J. Dental syringe. 1,452,085; Apr. 17.

Mackenzie, Daniel, Pomona, Calif. Device for preventing frost in orchards. 1,451,994; Apr. 17.

Maclaren, James G., Mamaroneck, N. Y. Pneumatic-dispatch system. 1,452,280; Apr. 17.

MacMillan, Alexander. (See Wright, Edward, assignor.)

Madsen, Peder C., Granada, Minn. Post puller. 1,452,205; Apr. 17.

Madsen, Sern, Clinton, Iowa. Cutting device for wood-working tools. 1,451,995; Apr. 17.

Maehler, Arthur, Chicago, Ill. Means for ventilating drying ovens. 1,451,883; Apr. 17.

Magee, William H., Wheeling, W. Va. Glass dish. Des. 62,228; Apr. 17.

Magee, William H., Wheeling, W. Va. Fruit dish. Des. 62,229; Apr. 17.

Maguin, Abel, Paris, France, assignor to Societe Nouvelle des Etablissements Alfred Maguin, Aubervilliers, Seine, France. Drum root cutter with a horizontal axis. 1,452,124; Apr. 17.

Mahony, William F., Washington, D. C. Eye shade. 1,452,305; Apr. 17.

Maillard, Joseph E. B., Coulombs, France. Powder puff. 1,452,470; Apr. 17.

Mandeville, Paul, Chicago, Ill. Storage building. 1,452,306; Apr. 17.

Manhattan Electrical Supply Co. Inc. (See Baisley, Charles T., assignor.)

Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)

Mann, Matthew D., jr., Roselle, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Means for dehydrating alcoholic liquids. 1,452,206; Apr. 17.

Margelis, Anthony, Grand Rapids, Mich. Furniture clamp. 1,452,164; Apr. 17.

Maries, Francis G., Kingston-on-Thames, England. Manufacture of solid plastic material from casein. 1,452,086; Apr. 17.

Marino, Quintin, Hampstead, London, England. Metallizing articles. 1,452,281; Apr. 17.

Mark Patent Company. (See Mark, W., and Parker, assignors.)

Mark, William, Wetheral, near Carlisle, and F. J. Parker, Carlisle, England, assignors to The Mark Patent Company, Limited, Weston, Bath, England. Trap for mice, rats, or other vermin. 1,452,087; Apr. 17.

Marshall, Stanmore P., Cincinnati, Ohio, assignor to H. B. Byrd Manufacturing Company, Incorporated, Washington, D. C. Apparatus for casting articles of metal. 1,452,245; Apr. 17.

Marshall, Stanmore P., assignor to H. B. Byrd Manufacturing Company, Incorporated, Washington, D. C. Art of and apparatus for casting metals. 1,452,246; Apr. 17.

Martin, Elmer R., assignor to Elgin Street Sweeper Co., Elgin, Ill. Gutter-broom arrangement for street sweepers. 1,452,307; Apr. 17.

Martin, Frank J., Turners Falls, Mass., assignor to Martin Machine Company, Inc. Tool holder. 1,451,705; Apr. 17.

Martin Machine Company. (See Martin, Frank J., assignor.)

Mathies, John E. H. (See Barlow, H., and Mathies.)

Matoushek, Frank J., Prairie du Sac, Wis. Aeroplane safety appliance. 1,452,348; Apr. 17.

Mayberry, Thomas A., Los Angeles, assignor of four-fifths to W. E. Winfield, La Verne, and one-fifth to M. Thompson, Pomona, Calif. Mold for making cementitious products. 1,452,247; Apr. 17.

Mayes, John, Wichita, Kans. Apparatus for refining crude oil. 1,451,739; Apr. 17.

Mayle, Francis C. (See Hipwood, George, assignor.)

Measuregraph Company, The. (See Kyle, George B., assignor.)

Meehan, G. F., et al. (See Cleveland, Benjamin L., assignor.)

Mellott, Howard S., Morenci, Mich., assignor to By-Products Recovery Company, Toledo, Ohio. Evaporating apparatus. 1,451,839; Apr. 17.

Memo Manufacturing Company. (See Platz, Henry T., assignor.)

Menard, Edward A. (See Lemelin, George T., assignor.)

Mercer, Charles G., New York, N. Y. Automobile license box. 1,452,430; Apr. 17.

Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator. 1,452,207; Apr. 17.

Merkel, George H., Bluefield, W. Va. Combined piano bench and music cabinet. 1,451,996; Apr. 17.

Meyer, Emanuel M., assignor to Langdon-Meyer Laboratories, Cincinnati, Ohio. Refrigerator. 1,451,917; Apr. 17.

Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tension device. 1,451,918; Apr. 17.

Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tension device. 1,451,919; Apr. 17.

Michael, John B., Selma, Ala. Locomotive-wheel-hub liner. 1,452,165; Apr. 17.

Michell, Anthony G. M., Melbourne, Victoria, Australia. Hydraulic mechanism for the transmission of power. 1,451,997; Apr. 17.

Milarch, Alfred E., assignor to I. A. Milarch, Atlanta, Ga. Automobile transmission. 1,452,248; Apr. 17.

Milarch, Isabel A. (See Milarch, Alfred E., assignor.)

Miles, Frank J. M., assignor to Cheramy, Inc., New York, N. Y. Holders for compacts. 1,451,740; Apr. 17.

Milkie, George A., Brooklyn, N. Y. Automobile pedal attachment. 1,452,431; Apr. 17.

Miller, Anthony, Burlingame, Calif. Cooking device. 1,452,208; Apr. 17.

Miller, Dana O., Reading, Mass. Combination heater. 1,452,249; Apr. 17.

Miller, Donald J. G., Bootle, and R. A. Lloyd, Liverpool, England. Grinding or crushing machine. 1,452,088; Apr. 17.

Miller, Ewell B., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-blanking operation. 1,452,308; Apr. 17.

Miller, James F., Minden, La. Resilient wheel. 1,451,706; Apr. 17.

Miller, John, jr., Beloit, Wis., assignor to Charles H. Besly & Company, Chicago, Ill. Disk grinder. 1,452,209; Apr. 17.

Miller, Paul, Philadelphia, Pa. Expanding reamer. 1,451,741; Apr. 17.

Miller, Paul, Philadelphia, Pa. Expanding reamer. 1,451,742; Apr. 17.

Miller, Vernon J., East Orange, N. J. Material building unit. 1,452,432; Apr. 17.

Miller, William J., Swissvale, Pa. Process and apparatus for feeding glass. 1,451,707; Apr. 17.

Milton, John K., Chicago, Ill. Manually-operated boat. 1,452,433; Apr. 17.

Mimmo Toy Company, Inc. (See Goolman, Fred R., assignor.)

Mitchell, Howard B., Tacoma, Wash. Assembling tool for interrupter arms. 1,451,708; Apr. 17.

Modra, William. (See Hoener, Frederick, assignor.)

Moen, Thorey I., Beloit, Wis. Ventilator. 1,451,884; Apr. 17.

Moline Plow Company. (See Howard, Otis W., assignor.)

Moline Plow Company. (See Shonts, L. C., and Howard, assignors.)

Monrath, Gustav, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa. Asphalt composition. 1,452,310; Apr. 17.

Monrath, Gustav, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa. Asphalt structure and composition. 1,452,309; Apr. 17.

Moore, Lawrence L., and F. W. Radcliffe, Los Angeles, Calif.; said Moore assignor to said Radcliffe. Tag. 1,452,250; Apr. 17.

Moreno, Manuel J., San Francisco, Calif. Shoe-polishing device. 1,452,386; Apr. 17.

Morley, Denys W., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,451,709; Apr. 17.

Morris, Edward D., Chicago, Ill. Seam presser for shoe uppers. 1,452,251; Apr. 17.

Morton, Dudley J., Milford, Conn. Statuette. Des. 62,230; Apr. 17.

Mukai, Kichimatsu, San Francisco, Calif. Wood-splitting machine. 1,452,387; Apr. 17.

Müller, Joseph, Dayton, N. J.. Automatic safety expansion valve. 1,452,252; Apr. 17.

Murray Company, The. (See Henry, Nelson R., assignor.)

Murray, Thomas E. (See Rypinski, Albert B., assignor.)

Myers, Edmund T. D., jr., Richmond, Va. Locomotive combustion regulator. 1,452,210; Apr. 17.

Myers, William L., Industry, Ill. Latch. 1,452,211; Apr. 17.

Nalle, Charles R., Richmond, Va. Detachable button. 1,452,052; Apr. 17.

National Brass Manufacturing Company, The. (See Wray, Charles F., assignor.)

National Carbon Company. (See Wells, Alfred A., assignor.)

National Company. (See Balcke, Walter H., assignor.)

National Company. (See Ready, William A., assignor.)

National Sewing Machine Company. (See Henry, C. F., and Hulett, assignors.)

Neal, Robert A., assignor of one-half to L. J. Heyman, Lexington, Ky. Brake-actuating mechanism. 1,452,212; Apr. 17.

Nell, Arthur L., Brooklyn, N. Y. Combination furniture. 1,452,434; Apr. 17.

Nelson, Andrew, Milwaukee, Wis. Extension manifold. 1,452,213; Apr. 17.

Nelson, John. (See Balcker, Marten, assignor.)

Nelson, Martin L., assignor to Automatic Electric Company, Chicago, Ill. Private-branch-exchange system. 1,451,885; Apr. 17.

Nelson, Martin L., assignor to Automatic Electric Company, Chicago, Ill. Signaling apparatus for telephone systems. 1,451,886; Apr. 17.

Neubauer, Curt, Mecklenburg, Germany. Process of and device for drawing bellied objects of sheet metal. 1,451,998; Apr. 17.

Nevitt, Henry G., Tampico, Mexico. Liquid and vapor separator. 1,452,253; Apr. 17.

New Jersey Foundry and Machine Company. (See Hescock, Ethan N., assignor.)

New Jersey Zinc Company, The. (See Breyer, F. G., and Finkeldey, assignors.)

Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,452,214; Apr. 17.

Niese, Henry E., Morristown, N. J., assignor to The American Sugar Refining Company, New York, N. Y. Apparatus for drying char. 1,452,166; Apr. 17.

Nitsch, Charles H., and W. A. Weightman, Logan, Philadelphia, and W. H. Streeper, Frankford, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Stay or tab applying machine. 1,451,782; Apr. 17.

Noack, Carl O., Stamford, Conn., assignor to The Hammond Typewriter Company. Folding typewriter. 1,452,254; Apr. 17.

Nolan, Francis A., St. Paul, Minn. Resilient tread for footwear. 1,452,089; Apr. 17.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Cederberg, Ivar W., assignor.)

North East Electric Company. (See Lee, Thomas L., assignor.)

Novak, Joseph, assignor to The Henry Furnace and Foundry Company, Cleveland, Ohio. Hot-air conduit. 1,451,887; Apr. 17.

Novotny, Emil E., Logan, Philadelphia, assignor to J. S. Stokes, Philadelphia, Pa. Molded sound-reproduction article. 1,451,783; Apr. 17.

Novotny, Rudolf, Portage, Pa. Arch support for mines. 1,451,840; Apr. 17.

Null, Jesse, Arcadia, Calif. Chicken feeder. 1,452,215; Apr. 17.

Nussbaum, Bert A. (See Spencer, Madison A., assignor.)

Nutt, Buell W., assignor to The Safety Equipment Service Company, Cleveland, Ohio. Lantern support. 1,451,920; Apr. 17.

Oberley, Charles G., and R. Grignon, Munising, Mich. Friction clutch. 1,452,349; Apr. 17.

O'Harrow, Fred, Rockwell, Iowa. Pulley-shield device. 1,451,743; Apr. 17.

O'Kelly, James, Onconta, N. Y. Combination lock. 1,451,954; Apr. 17.

Olin, Louis B., Chicago, Ill. Refrigerator vehicle. 1,452,090; Apr. 17.

Oliver, Ralph W., Toledo, Ohio. Powder box. 1,451,955; Apr. 17.

Olsen, Albert A., Ranger, Tex. Oil-well pump. 1,451,784; Apr. 17.

Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Mechanism for testing gear-cutting machines. 1,451,921; Apr. 17.

Ostenberg, Pontus, San Jose, Calif. Pump mechanism, 1,452,091; Apr. 17.

Owensboro Ditcher & Grader Company. (See Dever, Henry L., assignor.)

Pacific Car and Foundry Company. (See Chriswell, Frederick W., assignor.)

Pacific Car and Foundry Company. (See Coats, Roy N., assignor.)

Paquette, Napoléon, Detroit, Mich., assignor of one-fourth to M. C. Sampson, Ottawa, Kans. Lubricator. 1,451,710; Apr. 17.

Paranteau, George R., Oxnard, Calif. Fruit-pitting machine. Re15,579; Apr. 17.

Parker, Charles, Company, The. (See Walker, P. H. D., and Turner, assignors.)

Parker, Frederic J. (See Mark, W., and Parker.)

Parker, John S., Earlville, N. Y. Paper or cardboard berry basket. 1,451,888; Apr. 17.
Parker, William S., and J. Jesperson, assignors to Burson Knitting Company, Rockford, Ill. Fashioning indices and knitting the same. 1,451,841; Apr. 17.
Parkersburg Rig & Reel Company, The. (See Lockhart, Harold J., assignor.)
Parkhurst, Charles E., Somerville, Mass. Heating device for liquids. 1,452,311; Apr. 17.
Parrish, Rial T. (See Gingerick, Kent S., assignor.)
Patch, Nathaniel K. B., assignor to Lumen Bearing Company, Buffalo, N. Y. Apparatus for casting metals. 1,452,480; Apr. 17.
Patterson, Harry R., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Ignition coil. 1,452,167; Apr. 17.
Paul, Raymond. (See Koehler, J. E., and Paul.)
Payman, Joseph B. (See Baddiley, J., Payman, and Bainbridge.)
Payne, Arlie, Paragould, Ark. Camera attachment. 1,451,956; Apr. 17.
Payson, John H., Rockford, Ill. Razor stropper. 1,451,844; Apr. 17.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Controlling mechanism for harvesters. 1,452,282; Apr. 17.
Peck, Stow & Wilcox Co., The. (See Blot, Lucien P., assignor.)
Peffer, Lloyd T. and T. E., Waukesha, Wis. Tire boot. 1,421,712; Apr. 17.
Peffer, Thomas E. (See Peffer, Lloyd T. and T. E.)
Peirce, William B., North Tonawanda, N. Y. Self-feeding machine and method. 1,452,053; Apr. 17.
People of the United States (See Ross, W. H., Durgin, and Jones, assignors.)
Perna, Joseph, Philadelphia, Pa. Duplex sheet-pile driver. 1,451,922; Apr. 17.
Perry, George R., Washington, D. C. Furniture-leveling device. 1,451,909; Apr. 17.
Peterka, James V., Indiana Harbor, Ind. Regenerator. 1,452,216; Apr. 17.
Petroleum Heat and Power Company. (See Brown, Francis H., assignor.)
Petroleum Rectifying Company. (See Meredith, Wynn, assignor.)
Pfeiffer, Fred B., Akron, Ohio. Tire. 1,452,217; Apr. 17.
Pieper, Nicolas, Liege, Belgium. Disjointing device for automatic pistols. 1,452,000; Apr. 17.
Pierce, Winslow S., jr., Berville, N. Y. Velocity indicator. 1,451,923; Apr. 17.
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die holder. 1,452,312; Apr. 17.
Pittman, Reinhart W., New York, N. Y. Magazine for slug machines. 1,451,842; Apr. 17.
Pittsburgh Transformer Company. (See Horelick, Samuel, assignor.)
Platt Brothers and Company. (See Wilkinson, Henry, assignor.)
Platz, Henry T., Ashland, Ohio, assignor to Memo Manufacturing Company, Detroit, Mich. Desk memorandum pad. 1,452,092; Apr. 17.
Plauson, Hermann, Hamburg, Germany. Manufacture of resinous condensation products. 1,451,843; Apr. 17.
Plehaty, Carl W., assignor of one-half to F. R. White, White Plains, N. Y. Controller for motors. 1,452,472; Apr. 17.
Plumb, D. S. (See Holbrook, J. K., and De Francisco, assignors.)
Pollack, Israel, Dorchester, Mass. Cleansing. 1,452,093; Apr. 17.
Pomeroy, Ralph E. H., Canton, Ohio. Pulverizing mill. 1,452,218; Apr. 17.
Pomona Products Company (See Bostrom, Earust A., assignor.)
Pont, José Fons, Barcelona, Spain. Internal-combustion engine. 1,452,125; Apr. 17.
Porter, Clovis A., and O. C. Brewster, Casper, Wyo., assignors of one-half to P. Sullivan and G. R. Hagens, Casper, Wyo. Process and apparatus for centrifugal separation. 1,452,388; Apr. 17.
Powell, John R., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for the manufacture of bifocal lens blanks. 1,451,957; Apr. 17.
Pozdech, Adolph F., Newark, N. J. Enamel composition. 1,452,219; Apr. 17.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Vulcanized-rubber solution and producing it. 1,451,711; Apr. 17.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. 1,451,889; Apr. 17.
Price, John C., Olcott, W. Va. Wheel grinding and truing machine. 1,451,958; Apr. 17.
Price, Mitchell D., Miami, Fla. Garter. 1,452,001; Apr. 17.
Priebe, Herman C., Blue Island, Ill. Draft gear. 1,451,959; Apr. 17.
Priebe, Herman C., Blue Island, Ill. Car door. 1,451,960; Apr. 17.
Priebe, Herman C., Blue Island, Ill. Draft gear. 1,451,961; Apr. 17.
Propst, Christy A., Longview, Tex. Spark plug. 1,452,054; Apr. 17.
Proulx, Charles A., Woonsocket, R. I. Spindle. 1,451,744; Apr. 17.
Pullen, Frank L., Oldtown, Me. Paper waxing and sizing composition. 1,452,389; Apr. 17.
Pullin, Cyril G., Isleworth, England. Exhaust silencer for internal-combustion engines. 1,452,435; Apr. 17.
Pullin, Cyril G., Isleworth, England. Front fork for velocipedes. 1,452,436; Apr. 17.
Pursel, Marshall A., West Haven, Conn. Calculating device. 1,451,890; Apr. 17.
Pyle-National Company, The. (See Dake, Charles W., assignor.)
Radcliffe, Frederick W. (See Moore, L. L., and Radcliffe.)
Rasmussen, Hans E., Graettinger, Iowa. Trousers holder and press. 1,452,437; Apr. 17.
Rataiczak, Thomas F., assignor to The Hobart Manufacturing Company, Troy, Ohio. Meat chopper and making same. 1,451,891; Apr. 17.
Ready, William A., Brookline, assignor to National Company, Cambridge, Mass. Pressure gauge. 1,452,126; Apr. 71.
Rector, Harlan S., Chicago, Ill. Pneumatic tire. 1,452,168; Apr. 17.
Rehn, Albert B., Philadelphia, Pa. Phonograph reproducer. 1,452,094; Apr. 17.
Reidenbach, Herman O., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring structure. 1,451,924; Apr. 17.
Reimche, George W., Moorhead, Minn. Articulator. 1,451,892; Apr. 17.
Reinike, Bernard, et al. (See Ikerman, Wayne E., assignor.)
Reiter, Gustaf A., San Diego, Calif. Safety razor. 1,452,002; Apr. 17.
Reizenstein, Emile, Brookline, Mass. Pressing device. 1,452,095; Apr. 17.
Rhein, Lloyd R., assignor to C. R. Wilson Body Company, Detroit, Mich. Vehicle door lock. 1,451,785; Apr. 17.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Cushion stop for picker sticks. 1,451,845; Apr. 17.
Richardson, De Soto E., Riverside, Wash. Implement support and carriage. 1,452,003; Apr. 17.
Rise, Carl H., Rapid City, S. Dak. Device for straightening photographic prints. 1,452,438; Apr. 17.
Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Machine for stitching covers on cores. 1,451,962; Apr. 17.
Ritter, Elmer R., assignor to S. A. Wuestefeld, Cincinnati, Ohio. Attachable brake. 1,452,439; Apr. 17.
Robb, Arthur A. (See Kepler, I. F., and Robb.)
Robbins, F. M., et al. (See Cleveland, Benjamin L., assignor.)
Robinson, Charles O., Bismarck, N. Dak. Collapsible supporting device. 1,451,846; Apr. 17.
Robinson, Charles W. (See Bozard, H. B., and Robinson.)
Robinson, William V., assignor to The Independent Stove Co., Owosso, Mich. Gas burner. 1,452,440; Apr. 17.
Rockbestos Products Corporation. (See Heany, John A., assignor.)
Rodda, Bertie N. (See Rodda, Thomas H. and B. N.)
Rodda, Thomas H., Joslin, and B. N. Rodda, Torrensville, South Australia, Australia. Auxiliary spring or shock absorber for vehicles, particularly motor vehicles. 1,452,441; Apr. 17.
Rodenhizer, Bernard C., Lynchburg, Va. Water-gauge glass for steam boilers. 1,452,390; Apr. 17.
Rodrigues, Manuel R., Brooklyn, N. Y. Cartridge fuse. 1,452,255; Apr. 17.
Roessel, Louis. (See Collins, C. S., and Roessel.)
Roos, Delmar G., assignor, by mesne assignments, to the Locomobile Company, Bridgeport, Conn. Ventilating system. 1,452,313; Apr. 17.
Rosenbluth, Edwin M. (See Scoville, Royal L., assignor.)
Ross, Harry B., Denver, Colo. Washing machine. 1,452,097; Apr. 17.
Ross, Harry B., assignor to the Fjord Company, Denver, Colo. Washing and drying machine. 1,452,096; Apr. 17.
Ross, William H., C. B. Durgin, and R. M. Jones, Washington, D. C.; dedicated, by mesne assignments, to the People of the United States. Purification of commercial phosphoric acid by crystallization. 1,451,786; Apr. 17.
Rotary Spreader. (See Bailey, James G., assignor.)
Roush, Eli S., Lynchburg, Ohio. Cultivator. 1,452,442; Apr. 17.
Rowe, William H., Jacksonville, Fla. Electrically heated and controlled steam boiler. 1,451,847; Apr. 17.
Rowley, Edward G., assignor of one-half to Sun Typewriter Company, Newark, N. J. Percolator. 1,452,256; Apr. 17.
Ruff, William J., Quincy, Ill. Live-bait bucket. 1,451,925; Apr. 17.
Ruggles, Gilbert W., Youngstown, Ohio. Extension grate apparatus. 1,452,314; Apr. 17.
Rupert, Louis, Decatur, Ill. Closure. 1,452,391; Apr. 17.
Russell, Robert C., Pittsburgh, Pa. Index. Re15,582; Apr. 17.

Rutter, John, Edmonton, Alberta, Canada. Apparatus for delivering messages to moving trains and the like. 1,452,443; Apr. 17.
Ryan, Frederick J., Toronto, Ontario, Canada. Auto signal. 1,452,392; Apr. 17.
Ryan, Walter D., Schenectady, N. Y. Headlight. 1,451,983; Apr. 17.
Rypinski, Albert B., Laurelton, N. Y., assignor to T. E. Murray, Long Island, N. Y. Electric riveting machine and process. 1,451,894; Apr. 17.
Safety Equipment Service Company, The. (See Nutt, Buell W., assignor.)
Saffert, George J., New Ulm, Minn. Concrete door-frame construction. 1,451,713; Apr. 17.
Saffert, George J., New Ulm, Minn. Means for molding concrete blocks. 1,451,714; Apr. 17.
Sampson, Archibald T., assignor to Sampson Axcess System, Inc., Lynn, Mass. System of electrical construction. 1,452,169; Apr. 17.
Sampson Axcess System, Inc. (See Sampson, Archibald T., assignor.)
Sampson, May C. (See Paquette, Napoléon, assignor.)
Samuell, Charles A., Hedgesville, Mont. Well tool. 1,452,444; Apr. 17.
Sandberg, Swan A., and A. F. Jeanblanc, Lee Center, Ill. Lever control for clutch pedals. 1,452,170; Apr. 17.
Sandholm, John. (See Tommasi, C., Sandholm, Daneel, and Busch.)
Saudlands, James, Toronto, Ontario, Canada. Automatic valves. 1,451,895; Apr. 17.
Sanitary Scale Company. (See Ludlow, George M., assignor.)
Sardeson, Robert, Minneapolis, Minn. Relining motor-vehicle brake bands. 1,452,475; Apr. 17.
Sargent, Allan C., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Rake tooth for carbonizing acid bowls. 1,451,926; Apr. 17.
Sargent's Sons Corporation. (See Sargent, Allan C., assignor.)
Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. 1,452,171; Apr. 17.
Savidge, Clinton, L., Callaway, Nebr. Valve coupling for tubular wells. 1,452,004; Apr. 17.
Schact, Gustav A., Plainville, Ohio. Transmission mechanism. 1,452,220; Apr. 17.
Schadegg, Theophilus. (See La Belle, William E., assignor.)
Schenck, Paul W. (See Utter, P., and Schenck.)
Scheuer, Joseph B., Lanett, Ala. Bleaching barytes. 1,452,315; Apr. 17.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Wheeled gun carriage having divergible trail. 1,451,848; Apr. 17.
Schultz, Edward, Maywood, assignor, by mesne assignments, to Mrs. E. A. Laughery, Chicago, Ill. Coin-operated vending machine. 1,451,787; Apr. 17.
Schulz, M. Company. (See Gustafson, Adolph P., assignor.)
Schwerdtfeger, Walter, assignor to Daimler-Motoren-Gesellschaft, Unterturkeim, Germany. Device for indicating the oil circulation and oil pressure. 1,451,849; Apr. 17.
Scott, Henry L., & Company. (See Valentine, Frank A., assignor.)
Scott, Robert F., assignor to Edwin Harrington, Son & Company, Inc., Philadelphia, Pa. Drill-spindle-adjusting mechanism. 1,452,172; Apr. 17.
Scoville, Royal L., New York, N. Y., assignor to E. M. Rosenbluth, Wallingford, Pa. Low-water indicator. 1,452,173; Apr. 17.
Scruby, George E., assignor to G. B. Kelley, Birmingham, Ala. Box cover. 1,451,963; Apr. 17.
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Seldeman, Léon, New York, N. Y. Silicate composition. 1,452,445; Apr. 17.
Seppmann, Alfred B., Lake Crystal, Minn. Valve cage vise and spring remover. 1,451,715; Apr. 17.
Seydel Chemical Company. (See Spencer, Hugh M., assignor.)
Sharpe, George E., Steubenville, Ohio. Gas burner. 1,451,716; Apr. 17.
Sheiman, Morris, New York, assignor to Wilson Rohannan, Inc., Brooklyn, N. Y. Lock. 1,451,788; Apr. 17.
Shek, Frank P., Brooklyn, N. Y. Lock. 1,452,393; Apr. 17.
Shirley, William M., Aliceville, Ala. Differential gear. 1,452,316; Apr. 17.
Shonts, Leroy C., and O. W. Howard, assignors, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor. 1,452,283; Apr. 17.
Short, Lillie A., Washington, D. C. Meat-tendering machine. 1,452,098; Apr. 17.
Shreve, Randolph N. (See Charlton, H. W., and Shreve.)
Shultz, Albert B., Buffalo, N. Y. Ball joint. 1,451,964; Apr. 17.
Shultz, Albert B., Buffalo, N. Y. Liquid-level gauge. 1,451,965; Apr. 17.
Sibson & Stern, Inc. (See Branson, Thomas, assignor.)
Simon, Dezsö, and A. Gottlieb, New York, N. Y. Hoof-protecting horseshoe. 1,452,317; Apr. 17.
Simon, Lewis, Gary, Ind. Extension body for automobiles. 1,452,394; Apr. 17.
Simpson, Robert D. (See Foster, C. J., and Simpson.)
Singer, Joseph B., Brooklyn, and A. B. Levy, New York, N. Y. Display container and advertising in connection therewith. 1,452,257; Apr. 17.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
Sipe, John F., New York, N. Y. Elastic tire and making same. 1,452,099; Apr. 17.
Sitzman, Charles E., Taft, Calif. Rod elevator. 1,452,127; Apr. 17.
Sleeper & Hartley, Inc. (See Sleeper, Frank H., assignor.)
Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Spring-coiling machine. 1,452,128; Apr. 17.
Slider, George, Baltimore, Md. Gearing. 1,452,222; Apr. 17.
Slider, George, Baltimore, Md. Mechanical movement. 1,452,221; Apr. 17.
Smallwood, Robert F., New York, N. Y. Cutting tool. 1,451,966; Apr. 17.
Smith, Alexander, Dykehead, and W. M. Wood, Montrose, Scotland. Machine for raising or digging turnips and other like roots. 1,452,395; Apr. 17.
Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
Smith, Carl J., Indiana Harbor, Ind. Differential governor for boiler feed pumps. 1,452,228; Apr. 17.
Smith, Clarence E., Peoria, Ill. Stropping machine. 1,451,789; Apr. 17.
Smith, Clarence E., Peoria, Ill. Blade holder for stropping machines. 1,451,790; Apr. 17.
Smith, Elmer H., Minneapolis, Minn. Welding-torch tip. 1,452,258; Apr. 17.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Manifolding pack and holder. 1,451,791; Apr. 17.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,451,792; Apr. 17.
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Punching press and die therefor. 1,452,224; Apr. 17.
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Forming curved flanged bars. 1,452,225; Apr. 17.
Smith, Winfield D., Newark, N. J. Reversible driving gear. 1,451,793; Apr. 17.
Smith's John E., Sons Company. (See Knowlton, Eugene W., assignor.)
Snell, Lyle K., assignor to The Willys-Overland Company, Toledo, Ohio. Breather tube. 1,452,259; Apr. 17.
Societe Nouvelle des Etablissements Alfred Maguin. (See Maguin, Abel, assignor.)
Sommer, Henry G., Peoria, Ill., assignor, by mesne assignments, to Keystone Steel & Wire Company, Peoria, Ill. Hand tool. 1,451,717; Apr. 17.
Sommer, John, Peoria, assignor to Keystone Steel & Wire Company, Bartonville, Ill. Reel. 1,451,745; Apr. 17.
South Bend Bait Co. (See Cass, Frank A., assignor.)
Spencer, Hugh M., Newark, N. J., assignor, by mesne assignments, to Seydel Chemical Company, New York, N. Y. Mercurial composition. 1,451,850; Apr. 17.
Spencer, Madison A., Yonkers, N. Y., assignor of one-half to B. E. Nussbaum, Muskogee, Okla. Boll-weevil destroyer. 1,452,226; Apr. 17.
Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Means for governing the rolling of ships. 1,452,482; Apr. 17.
Sperry, Elmer A., jr., Brooklyn, N. Y. Horizontal bearing for gyroscopes. 1,452,483; Apr. 17.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gunfire control for battleships. 1,452,484; Apr. 17.
Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)
Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
Spiker, Thomas A., Pittsburgh, and J. E. Ayres, McDonald, Pa. Pump. 1,452,318; Apr. 17.
Spitzer, Charles S., and J. Gioub, Chicago, Ill. Sound box. 1,452,319; Apr. 17.
Sprague, Frank D., Newport, R. I. Automatic angle cock. 1,452,473; Apr. 17.
Spuhler, Victor, Zug, Switzerland. Two-stroke-cycle internal-combustion engine. 1,452,005; Apr. 17.
Staempfli, Joseph, New Orleans, La. Portable boring machine. 1,452,320; Apr. 17.
Staier, Henry. (See Gottschalk, Karl P., assignor.)
Staley, Joseph H., Columbus, Ind. Engine-bearing burning-in and running-in machine. 1,452,446; Apr. 17.
Starclough, William H., Parkersburg, W. Va. Tank. 1,451,987; Apr. 17.
Steffan, William C., F. B. Ackermann, and W. J. Greiner, Chicago, Ill. Pencil. Des. 62,224; Apr. 17.
Stehmann, Harry, Berlin-Hohenschonhausen, Germany. Grate for shaft furnaces. 1,452,006; Apr. 17.
Steinberger, Louis, Brooklyn, N. Y. Insulator. 1,451,968; Apr. 17.
Steinberger, Louis, Brooklyn, N. Y. Insulated connector. 1,451,969; Apr. 17.
Steinmetz, Joseph A., Philadelphia, Pa. Tire-inflating attachment for disk wheels. 1,452,284; Apr. 17.

Stelter, Francis C. W., Astoria, N. Y. Dyeing machine. 1,452,129; Apr. 17.
Stendahl, Ludwig, Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Adapter. 1,452,321; Apr. 17.
Stephens, Thomas J., Spokane, Wash. Dust cap for tire valves. 1,451,719; Apr. 17.
Sternad, Andrew F., Chicago, Ill. Feeding machine. 1,451,897; Apr. 17.
Stern, Isidore, New York, N. Y. Adjustable attachment for removable bridgework. 1,451,718; Apr. 17.
Sterner, Lloyd H., H. M. Landroth, and M. E. Sterner, Fremont, Nebr. Advertising device. 1,452,396; Apr. 17.
Sterner, Minnie E. (See Sterner, L. H., Landroth, and Sterner.)
Stevens, Harry P., New York, N. Y. Battery steamer. 1,452,397; Apr. 17.
Stewart, Leroy C., assignor to The Dow Chemical Company, Midland, Mich. Segregating olefines. 1,452,322; Apr. 17.
Stimson, Ralph J., Rogersville, Mich. Controlling means for tractors. 1,451,925; Apr. 17.
St. Mungo Manufacturing Company of America. (See Loomis, Evarts G., assignor.)
Stockton, Charles G., Ocean Grove, N. J. Exhaust muffler. 1,452,056; Apr. 17.
Stockton, William A., assignor of two-thirds to W. Dowell, Pleasant Hill, La. Cultivator. 1,452,398; Apr. 17.
Stoffel, Martin, McHenry, Ill. Road drag. 1,452,260; Apr. 17.
Stokely, Ray L., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Toll trunking circuits for machine-switching telephone systems. 1,452,323; Apr. 17.
Stokes & Smith Company. (See Nitsch, C. H., Weightman, and Streeper, assignors.)
Stokes, Henry C., Sumter, S. C. Valve for air-brake safety appliances. 1,452,055; Apr. 17.
Stokes, John C., Shreveport, La. Drill. 1,451,794; Apr. 17.
Stokes, John S. (See Novotny, Emil E., assignor.)
Straubel, Louis A., Green Bay, Wis. Paper-cutting machine. 1,452,227; Apr. 17.
Straubel, Louis A., assignor to Straubel Machine Company, Green Bay, Wis. Rewinding machine. 1,452,228; Apr. 17.
Strauss, Louis, Brooklyn, N. Y. Sweater. Des. 62,225; Apr. 17.
Streeper, William H. (See Nitsch, C. H., Weightman, and Streeper.)
Straubel Machine Company. (See Straubel, Louis A., assignor.)
Stroud and Company. (See Bonney, Bick R., assignor.)
Strutz, Louis P., Corning, N. Y. Tire valve. 1,452,324; Apr. 17.
Stumpenhorst, John A., Wilkinsburg, Pa., assignor to Duplex Transmission Company. Motor-vehicle transmission mechanism. 1,451,851; Apr. 17.
Sullivan, Patrick, et al. (See Porter, C. A., and Brewster, assignors.)
Sultzer, Morton, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Multiplex selecting circuits. 1,451,746; Apr. 17.
Sun Typewriter Company. (See Rowley, Edward G., assignor.)
Swank, Christian J., Topeka, Kans. Exterminator trap. 1,451,720; Apr. 17.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. 1,452,485; Apr. 17.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Magnetic gyroscopic navigation device. 1,451,928; Apr. 17.
Taylor, James A., et al., joint trustees. (See Ladd-Davis, Clarence, assignor.)
Taylor, Samuel W., Baltimore, assignor to C. J. Kryzanowsky, Ruxton, Md. Temporary fastening. 1,451,970; Apr. 17.
Ternstedt Manufacturing Company. (See Edgar, F. M., and Archer, assignors.)
Ternes, Henry, Albion, Nebr. Stock waterer. 1,452,325; Apr. 17.
Terrey, Arthur, Hayes, England. Rotary printing press. 1,451,721; Apr. 17.
Texas Gulf Sulfur Company. (See Davis, Harold S., assignor.)
Texhoma Oil & Refining Company, The. (See Berlien, Corwin M., assignor.)
Tew, James D., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Prolonging the life of expansible vulcanizing cores. 1,452,326; Apr. 17.
Thatcher, Emerson B., Marine City, Mich. Water separator for air tanks. 1,452,447; Apr. 17.
Theis, Raymon R. (See Andrews, L. G., and Theis.)
Thelen, Rolf. (See Tiemann, H. D., and Thelen.)
Thompson, Charles, Hamilton, Ontario, Canada. Direction signal for automobiles. 1,451,795; Apr. 17.
Thompson, Clarence W., assignor to Thompson Spring Company, Wilmington, Del. Support for vehicle springs. 1,452,448; Apr. 17.
Thompson, M., et al. (See Mayberry, Thomas A., assignor.)
Thompson, Milton E., Ridgway, Pa. Power-transmission arrangement. 1,452,327; Apr. 17.
Thompson Spring Company. (See Thompson, Clarence W., assignor.)
Thouviot, Jean C., Paris-L'Hopital, France. Apparatus for heaping or piling up packages, bags, and the like. 1,452,449; Apr. 17.
Tiemann, Harry D., and R. Thelen, Madison, Wis. Reversing blower kiln. 1,451,747; Apr. 17.
Tingue Manufacturing Company. (See Fauser, Gustave M., assignor.)
Tocchio, Michele, Hammersmith, London, England. Cooking grill. 1,451,971; Apr. 17.
Tompkins, Hermann W., Greensburg, Pa. Radio variable rheostat. 1,452,399; Apr. 17.
Tommasi, Carlo, J. Sandholm, H. Danneel, and A. Busch, Basel, Switzerland, assignors to Elektrizitatswerk Lonza, Gampel, Canton of Valais, Switzerland. Burner for burning metaldehyde. 1,452,450; Apr. 17.
Torbron, Orin F., Ardmore, Okla. Swimming shoe. 1,452,400; Apr. 17.
Torrington Company, The. (See Cook, Harmon J., assignor.)
Towns, Eugene S., Austin, Tex. Boring machine. 1,452,007; Apr. 17.
Towers, Arthur A., Cleveland, Ohio. Vehicle top. 1,452,328; Apr. 17.
Traphagen, Harry R. (See Waterman, L. E., Traphagen, and Waterman.)
Trenckmann, Bruno. (See Trenckmann, Erich and B.)
Trenckmann, Erich and Bruno, assignors to B. G. Tertilwerke G. m. b. H., Berlin-Tempelhof, Germany. Balloon envelope material and manufacturing the same. 1,452,229; Apr. 17.
Trumble Gas Trap Co. (See Trumble, Milon J., assignor.)
Trumble, Milon J., Alhambra, Calif., assignor to Trumble Gas Trap Co., Los Angeles, Calif. Gas-trap float. Re. 15,580; Apr. 17.
Tunstall, William B., Worcester, Mass. Player piano. 1,452,174; Apr. 17.
Turgeon, Edward, Minneapolis, Minn. Couch bed. 1,451,929; Apr. 17.
Turner, Hubert S., San Diego, Calif. Telephony. 1,451,896; Apr. 17.
Turner, Lewis L. (See Walker, P. H. D., and Turner.)
Underwood Computing Machine Company. (See Kupetz, Adolph G., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Corporation. (See Dow, Harry E., assignor.)
United Shoe Machinery Corporation. (See Heys, John J., assignor.)
United Shoe Machinery Corporation. (See Meyer, William C., assignor.)
United Shoe Machinery Corporation. (See Morley, Denys W., assignor.)
Upton, Joseph C., Pelzer, S. C. Loom. 1,452,057; Apr. 17.
Utter, Phil, and P. W. Schenck, Los Angeles, Calif. Prop or brace. 1,452,329; Apr. 17.
Valentine, Frank A., Apponaug, assignor to Henry L. Scott & Company, Providence, R. I. Speed-changing mechanism. 1,451,722; Apr. 17.
Vallier, Orvis W., assignor to J. B. Wise Incorporated, Watertown, N. Y. Waste-operating mechanism. 1,451,930; Apr. 17.
Vallier, Orvis W., Watertown, N. Y., assignor to J. B. Wise Incorporated. Waste fitting for sinks. 1,451,931; Apr. 17.
Vandevender, Adam S. (See Vandevender, George W., assignor.)
Vandevender, George W., Mill Creek, W. Va., assignor of one-half to A. S. Vandevender, Mingo, W. Va. Folding coop. 1,451,972; Apr. 17.
Van Duyne, Simeon, assignor to S. M. Doland, Boonton, N. J. Fruit picker. 1,452,175; Apr. 17.
Vaughan, Henry H., and E. C. Gaines, Montreal, Quebec, Canada. Apparatus for loading and unloading railway cars. 1,451,748; Apr. 17.
Verdoorn, Neal, assignor of one-half to J. Zylstra, Sheldon, Iowa. Clutch-spring remover. 1,451,852; Apr. 17.
Vesta Battery Corporation. (See Angell, Chester M., assignor.)
Vicary, Arthur C. (See Armstrong, Edwin J., assignor.)
Vietor, William A., Eureka, Calif. Grate bar. 1,452,130; Apr. 17.
Volkman, Stanley, Minneapolis, Minn. Attachment for woodworking machines. 1,452,008; Apr. 17.
Vollmann, Carl W., Montreal, Quebec, Canada. Compressor. 1,451,723; Apr. 17.
Waffenfabrik Mauser, A. G. (See Kissendorfer, Karl, assignor.)
Wagner, Paul A., Jersey City, N. J. Pile-cutting device. 1,452,285; Apr. 17.
Wait, Justin F., New York, N. Y. Utilization of ammonia. 1,452,009; Apr. 17.
Wakefield, Frank T., Pittsburgh, Pa. Outdoor gaming apparatus. 1,452,350; Apr. 17.
Walden, Frederick E., deceased, Worcester, Mass., G. E. Walden, executrix. Auto jack. 1,452,131; Apr. 17.

Walden, Grace E., executrix. (See Walden, Frederick E.)
Wald, Samuel. (See Klein, B. M., and Wald.)
Walker, Cyril T., Secunderabad, Deccan, India. Apparatus for sharpening the blades of safety razors. 1,452,401; Apr. 17.
Walker, Joseph L., assignor to The K-D Barrel & Hamper Co., Baton Rouge, La. Machine for making barrel heads. 1,452,010; Apr. 17.
Walker, Percy H. D., Meriden, and L. L. Turner, South Meriden, Conn., assignors to The Charles Parker Company, Meriden, Conn. Quick-action vise. 1,451,724; Apr. 17.
Waller, William. (See Greenfield, J. W., and Waller.)
Warner Gear Company. (See Garceau, Harry J., assignor.)
Warner, William E., Linden, N. J. Cooking and wash utensil. 1,452,261; Apr. 17.
Washburne, Alva C., et al. (See Hammond, Grant, assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Burton, Jesse B., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
Waterman, Howard L. (See Waterman, L. E., Traphagen, and Waterman.)
Waterman, Lewis E., H. R. Traphagen, and H. L. Waterman, assignors to Emerson-Brantingham Company, Rockford, Ill. Tractor. 1,451,796; Apr. 17.
Wattel, Achille L. F., Sevres, France. Brake mechanism for automobiles. 1,452,402; Apr. 17.
Wattie, William M., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Vibrator lever for looms. (1,451,797; Apr. 17.
Watton, Harold E., Birmingham, England, assignor to Dunford & Elliott (Sheffield) Limited, Attercliffe, Sheffield, England. Internal-combustion engine. 1,452,011; Apr. 17.
Webber, Arthur H., Boston, Mass. Carburetor. 1,452,451; Apr. 17.
Webb, John W., assignor to The Container Club, Chicago, Ill. Paper-testing machine. 1,451,932; Apr. 17.
Weeks, John B., assignor to Long Furniture Company, Hanover, Pa. Phonograph cabinet. 1,452,132; Apr. 17.
Weguelin, George C. L., Chertsey, England. Bureau. 1,451,973; Apr. 17.
Weig, Herman, Chicago, Ill. Eraser holder. 1,451,933; Apr. 17.
Weig, Herman, Chicago, Ill. Eraser holder. 1,451,934; Apr. 17.
Weightman, William A. (See Nitsch, C. H., Weightman, and Streeper.)
Wells, Alfred A., Montclair, N. J., assignor to National Carbon Company, Inc., New York, N. Y. High-power dry battery. 1,452,230; Apr. 17.
Wells, Jacob L., Minneapolis, Minn. Air-washing attachment for carburetors. 1,452,231; Apr. 17.
Werle, Philip. (See Bye, K., and Werle.)
West, John W., Camberwell, London, England. Binding case for holding sheet music and the like. 1,452,452; Apr. 17.
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Dobbin, Henry F., assignor.)
Western Electric Company. (See Farrington, John F., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Houskeeper, William G., assignor.)
Western Electric Company. (See Johnson, Kenneth S., assignor.)
Western Electric Company. (See Miller, Ewell B., assignor.)
Western Electric Company. (See Stokely, Ray L., assignor.)
Western Maryland Railway Company. (See Wieseckel, George F., assignor.)
Westinghouse Air Brake Company. (See Cloud, John W., assignor.)
Weston, William S., Dallas, Tex. Anti-creeper for railway rails. 1,451,808; Apr. 17.
Wheeler, Benjamin F. (See Earl, C. M., and Wheeler.)
Wheeling Stamping Company. (See Davis, Walter T., assignor.)
Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Package. 1,452,100; Apr. 17.
White, Charles E., assignor to Deere & Company, Moline, Ill. Beet puller. 1,451,725; Apr. 17.
White, Edward N., et al, trustees. (See Gifford, Richard T., assignor.)
White, Francis R. (See Plehaty, Carl W., assignor.)
Whiting, Jasper, Boston, Mass. Bread slicer. 1,452,474; Apr. 17.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track belt and unit therefor. 1,452,176; Apr. 17.
Wieseckel, George F., Hagerstown, Md., assignor to Western Maryland Railway Company. Coal trimmer. 1,452,012; Apr. 17.
Wike, Reginald E., Springfield, Ohio. Bottle-disk extractor. 1,451,853; Apr. 17.
Wilcox, Crittenden and Company. (See Hanson, Henry, assignor.)
Wiley, Frank A. (See Howland, H. P., and Wiley.)
Wilkinson, Henry, assignor of one-half to Platt Brothers and Company Limited, Oldham, England. Machine for opening and cleaning cotton and other fibrous materials. 1,452,133; Apr. 17.
Williams, Frank, Hot Springs, S. Dak. Combined pencil sharpener and guard. 1,452,013; Apr. 17.
Williams, Harry C., Fulton, Ky. Motion-picture apparatus. 1,452,101; Apr. 17.
Williams, Walter W., Bloomington, Ill. Liquid-fuel-atomizing device. 1,451,798; Apr. 17.
Willis, Warren E., assignor to E. I. Franklin & Co., North Attleboro, Mass. Box-link chain. 1,452,058; Apr. 17.
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Jerdone, Francis, jr., assignor.)
Willys-Overland Company, The. (See Lightner, A. D., and Holmes, assignors.)
Willys-Overland Company, The. (See Snell, Lyle K., assignor.)
Wilson Bohannan, Inc. (See Sheinman, Morris, assignor.)
Wilson, C. R., Body Company. (See Rhein, Lloyd R., assignor.)
Wilson, Verney A., Atalla, Ala. Compressed-air ice machine. 1,452,403; Apr. 17.
Wiltrout, Alton J., Warsaw, Ind. Oar. 1,451,749; Apr. 17.
Wimmers, August A., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. 1,452,453; Apr. 17.
Wimmers, August A., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. 1,452,454; Apr. 17.
Winchester Repeating Arms Co. (See Gravely, Julian S., assignor.)
Winfield, Walter E., et al. (See Mayberry, Thomas A., assignor.)
Winters, Edward B., Coffeyville, Kans. Earth loader. 1,452,330; Apr. 17.
Wise, J. B., Incorporated. (See De Wallace, Harry, assignor.)
Wise, J. B., Incorporated. (See Vallier, Orvis W., assignor.)
Wodiska, Julius, New York, N. Y. Finger ring, pin, brooch, or similar article. Des. 62,226; Apr. 17.
Wood, William M. (See Smith, A., and Wood.)
Woodward, John H., assignor to The J. H. & F. A. Sells Company, Columbus, Ohio. Horse collar. 1,451,750; Apr. 17.
Wolfe, Clinton L., Brooklyn, and J. A. Faurot, New York, N. Y. Electric lock and door-control device. 1,452,014; Apr. 17.
Wolff, Franklyn J., Trenton, N. J. Blank-transfer mechanism for sagger-making machines. 1,452,331; Apr. 17.
Worthington Pump and Machinery Corporation. (See Haeberlein, Max, assignor.)
Wotton, Edward, Edgewater, N. J. Display sign for passenger vehicles. 1,452,332; Apr. 17.
Wray, Charles F., assignor to The National Brass Manufacturing Company, Rochester, N. Y. Lubricator cup. 1,451,854; Apr. 17.
Wright, Edward, assignor of one-half to A. MacMillan, Hamilton, Ontario, Canada. Wedge. 1,451,855; Apr. 17.
Wuestefeld, Steve A. (See Ritter, Elmer R., assignor.)
Wyckoff, J. Lewis, et al., trustees. (See Gifford, Richard T., assignor.)
Yamamoto, Takejiro, Nishinari-gun, Osaka, Japan. Interlocking splice for threads of two strands. 1,452,102; Apr. 17.
Yerrick Manufacturing Co. (See Harburg, James E., assignor.)
Yerxa, Winslow, Delburne, Alberta, Canada. Reaming tool. 1,452,103; Apr. 17.
Yoders, Irvin G., and J. C. Filby, Washington, Pa. Connector link for tire chains. 1,451,856; Apr. 17.
Young, Ferdinand H., assignor to The Abbott Laboratories, Chicago, Ill. Solution of di-chloramine-T. 1,451,857; Apr. 17.
Young, L. A., Industries, Inc. (See Reidenbach, Herman O., assignor.)
Young, Leonard A., Detroit, Mich. Forming compound springs. 1,451,936; Apr. 17.
Young, Leonard A., Highland Park, Mich. Spring-seat construction. 1,451,935; Apr. 17.
Youngblood, James A., Dallas, Tex. Method of and means for reenforcing wall foundations. 1,451,799; Apr. 17.
Zaiden, David, East Orange, N. J. Mechanical doll. 1,452,134; Apr. 17.
Zaiser, Carl J., assignor to American Metal Products Company, Milwaukee, Wis. Alloy. 1,452,232; Apr. 17.

Zengerle, Walter C., assignor to Franzengerle Company, Cleveland, Ohio. Cradle or creeper for automobile work. 1,451,858; Apr. 17.
Ziebold, Henry, sr., Woodlawn, Ohio. Burner. 1,451,751; Apr. 17.
Ziebold, Henry, sr., Lockland, Ohio. Burner. 1,451,752; Apr. 17.
Zitscher, Arthur. (See Laska, A. L., and Zitscher.)
Zsuffa, Louis, New York, N. Y. Combined molding-setting device for circular saws. 1,452,233; Apr. 17.
Zuckerman, Adolph M., assignor to R. Hoe and Co., New York, N. Y. Bearing and fountain adjustment for intaglio machines. 1,451,726; Apr. 17.
Zylstra, Joseph. (See Verdoorn, Neal, assignor.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acid bowls, Rake tooth for carbonizing. A. C. Sargent. 1,451,926; Apr. 17.
Acid by crystallization, Purification of commercial phosphoric. W. H. Ross, C. B. Durgin, and R. M. Jones. 1,451,786; Apr. 17.
Acid, Manufacture of 1.4 naphthol sulphonic. J. Baddiley, J. B. Payman, and E. G. Bainbridge. 1,452,481; Apr. 17.
Adapter. L. Stendahl. 1,452,321; Apr. 17.
Advertising device. J. E. Koehler and R. Paul. 1,451,877; Apr. 17.
Advertising device. L. H. Sterner, H. M. Landroth, and M. E. Sterner. 1,452,396; Apr. 17.
Aerial train. W. E. Ikerman. 1,451,830; Apr. 17.
Aeroplane assuring automatically the lateral and longitudinal stability. J. Dehouck. 1,452,071; Apr. 17.
Aeroplane safety appliance. F. J. Matoushek. 1,452,348; Apr. 17.
Aeroplanes, Rudder and elevator assembly for. O. T. Belcher. 1,452,060; Apr. 17.
Air brake, Load-controlled. R. Haskell. 1,452,199; Apr. 17.
Air compressor. W. J. Kreimer. 1,451,834; Apr. 17.
Alkali-metal product and producing the same. H. W. Charlton and R. N. Shreve. 1,452,185; Apr. 17.
Alloy. C. J. Zaiser. 1,452,232; Apr. 17.
Alloys, Producing a protective coating on objects of magnesium or magnesium. C. B. Backer. 1,451,755; Apr. 17.
Amalgamator, Centrifugal. R. J. Butler. 1,452,181; Apr. 17.
Ammonia and producing same, Catalyzer for the synthetic manufacture of. I. W. Cederberg. 1,452,027; Apr. 17.
Ammonia, Utilization of. J. F. Wait. 1,452,009; Apr. 17.
Ammonia with oxygen, Apparatus and method for carrying out catalytic oxidation of. I. W. Cederberg. 1,452,145; Apr. 17.
Animal trap. J. Bolf. 1,452,355; Apr. 17.
Armor, Machine for making flexible tubular. S. W. Bourn. 1,452,356; Apr. 17.
Articulator. G. W. Reimche. 1,451,892; Apr. 17.
Asphalt composition. G. Monrath. 1,452,310; Apr. 17.
Asphalt-cutting tool. W. J. Gleasner. 1,452,037; Apr. 17.
Asphalt structure and composition. G. Monrath. 1,452,309; Apr. 17.
Assembling tool for interrupter arms. H. B. Mitchell. 1,451,708; Apr. 17.
Attachable brake. E. R. Ritter. 1,452,439; Apr. 17.
Auto jack. F. E. Walden. 1,452,131; Apr. 17.
Auto signal. F. J. Ryan. 1,452,392; Apr. 17.
Autographic register. A. A. Wimmers. 1,452,453–4; Apr. 17.
Automobile body. F. R. Fageol. 1,452,369; Apr. 17.
Automobile brake mechanism. A. L. F. Wattel. 1,452,402; Apr. 17.
Automobile buffer. H. S. Gutsell. 1,451,874; Apr. 17.
Automobile bumper. E. W. Kettlitz and G. Kuhn. 1,452,427; Apr. 17.
Automobile extension body. L. Simon. 1,452,394; Apr. 17.
Automobile fender, Accident-proof. J. Kaurich. 1,451,833; Apr. 17.
Automobile guard and bumper. E. Christensen. 1,452,189; Apr. 17.
Automobile license box. C. G. Mercer. 1,452,430; Apr. 17.
Automobile lock. H. J. Garceau. 1,451,821; Apr. 17.
Automobile lock protective device. H. A. Calahan. 1,452,065; Apr. 17.
Automobile pedal attachment. G. A. Milkie. 1,452,431; Apr. 17.
Automobile radiator. L. D. Fowler. 1,451,871; Apr. 17.
Automobile rim. J. S. Edwards. 1,452,073; Apr. 17.
Automobile signal device. C. Hermann. 1,451,909; Apr. 17.
Automobile transmission. A. E. Milarch. 1,452,248; Apr. 17.
Automobile visors, Supporting bracket for. F. Hoener. 1,451,695; Apr. 17.
Automobile work, Cradle or creeper for. W. C. Zengerle. 1,451,858; Apr. 17.
Automobiles and other vehicles, Direction indicator for. J. O. Grenier. 1,452,114; Apr. 17.
Automobiles, Direction signal for. C. Thompson. 1,451,795; Apr. 17.
Automobiles, Slot-closure mat for. A. S. Kinney. 1,451,987; Apr. 17.
Bags, Handle for traveling. A. Kahlow. 1,452,243; Apr. 17.
Ball joint. A. B. Shultz. 1,451,964; Apr. 17.
Ball-winding machine. E. G. Loomis. 1,452,469; Apr. 17.
Balling machines, Controlling mechanism for. M. J. Kaspari. 1,452,298; Apr. 17.
Balloon envelope material and manufacturing the same. E. and B. Trenckmann. 1,452,229; Apr. 17.
Band-tying gauge. A. Cook. 1,451,681–2; Apr. 17.
Band-tying gauge. M. Curry and A. Cook. 1,451,685; Apr. 17.
Bar: *See*—
Grate bar.
Barrel heads, Machine for making. J. L. Walker. 1,452,010; Apr. 17.
Bars, Forming curved flanged. R. S. Smith. 1,452,225; Apr. 17.
Barytes, Bleaching. J. B. Scheuer. 1,452,315; Apr. 17.
Basket, Paper or cardboard berry. J. S. Parker. 1,451,888; Apr. 17.
Bath device. G. J. Kollar. 1,451,878; Apr. 17.
Battery: *See*—
High-power dry battery.
Battery cans, Manufacture of dry-. F. G. Breyer and W. H. Finkeldey. 1,451,758; Apr. 17.
Battery plates, Handling, drying, and forming pasted. C. M. Angell. 1,451,801; Apr. 17.
Battery steamer. H. P. Stevens. 1,422,397; Apr. 17.
Battleships, Gunfire control for. E. A. Sperry. 1,452,484; Apr. 17.
Bead-making machine. R. McClenathen. 1,451,837; Apr. 17.
Beaming machines, Tension-controlling means for. G. W. Kuenneth. 1,452,161; Apr. 17.
Bearing burning-in and running in machine, Engine-. J. H. Staley. 1,452,446; Apr. 17.
Bearing, Roller. H. J. Heider. 1,451,825; Apr. 17.
Bed. T. D. Anderson. 1,452,104; Apr. 17.
Bed, Couch. E. Turgeon. 1,451,829; Apr. 17.
Beet puller. C. E. White. 1,451,725; Apr. 17.
Belt shipper. O. F. Eklund. 1,451,945; Apr. 17.
Belts on cone pulleys, Shifter for. G. J. Hausman and A. J. Jones. 1,452,044; Apr. 17.
Belting, Apparatus for making. O. Czaran. 1,451,686; Apr. 17.
Bench: *See*—
Test bench.
Beverage-dispensing device. C. M. Earl and B. F. Wheeler 1,451,688; Apr. 17.
Bicycle rim. N. Johnson. 1,451,911; Apr. 17.
Blacking-box cover. G. A. Leighton. 1,451,702; Apr. 17.
Blanking operation, Material-. E. B. Miller. 1,452,308; Apr. 17.
Boat, Manually-operated. J. K. Milton. 1,452,433; Apr. 17.
Boat-propelling means. C. J. Baer. 1,452,059; Apr. 17.
Bobbin supply box. I. Couser. 1,451,683; Apr. 17.
Bodkin. M. C. R. Dolphin. 1,452,030; Apr. 17.
Boiler: *See*—
Milk boiler.
Boiler, Electrically heated and controlled steam. W. H. Rowe. 1,451,847; Apr. 17.
Boilers, Water-gauge glass for steam. B. C. Rodenhizer. 1,452,390; Apr. 17.
Boll-weevil destroyer. M. A. Spencer. 1,452,226; Apr. 17.
Boring machine. E. S. Towns. 1,452,007; Apr. 17.
Boring machine, Portable. J. Staempfl. 1,452,320; Apr. 17.
Bottle-disk extractor. R. E. Wike. 1,451,853; Apr. 17.
Bottle, Nursing. R. J. Hagerty. 1,451,822; Apr. 17.
Bottles or the like, Machine for capping. P. J. Boucher. 1,452,410; Apr. 17.
Box: *See*—
Automobile license box.
Bobbin supply box.
Match box.
Powder box.
Rural mail box.
Safety chick box.
Box cover. G. E. Scruby. 1,451,963; Apr. 17.
Box-covering machine. F. E. Hatch. 1,451,908; Apr. 17.
Bracket: *See*—
Lamp bracket.
Bracket. S. J. Dick. 1,451,764; Apr. 17.
Brake: *See*—
Attachable brake.
Car brake.
Load-controlled air brake.

Brake-actuating mechanism. R. A. Neal. 1,452,212; Apr. 17.
Brake bands, Relining motor-vehicle. R. Sardeson. 1,452,475; Apr. 17.
Bread slicer. J. Whiting. 1,452,474; Apr. 17.
Breather tube. L. K. Snell. 1,452,259; Apr. 17.
Brickmaking apparatus. H. W. B. Graham. 1,452,152; Apr. 17.
Bridgework, Adjustable attachment for removable. I. Stern. 1,451,718; Apr. 17.
Brittle product from a base, Separating a. C. Field. 1,451,902; Apr. 17.
Brush, Cleaning. E. Geiger. 1,452,458; Apr. 17.
Bucket, Live-bait. W. J. Ruff. 1,451,925; Apr. 17.
Building construction. R. H. Irwin. 1,452,426; Apr. 17.
Building laminated strips, Method and apparatus for. U. Haren. 1,452,379; Apr. 17.
Building, Storage. P. Mandeville. 1,452,306; Apr. 17.
Building unit, Material. V. J. Miller. 1,452,432; Apr. 17.
Bull and calf wheel. H. M. Harris. 1,451,770; Apr. 17.
Bureau. G. C. L. Wegueln. 1,451,973; Apr. 17.
Burner: *See*—
Gas burner.
Nonpreheating oil burner.
Oil burner.
Wickless oil burner.
Burner. F. H. Brown. 1,451,811–2; Apr. 17.
Burner. H. Ziebold, sr. 1,451,751–2; Apr. 17.
Burnishing machine. Electrically-heated. H. E. Dow. 1,451,687; Apr. 17.
Butter-blocking machine. E. W. Knowlton. 1,452,160; Apr. 17.
Button, Detachable. C. R. Nalle. 1,452,052; Apr. 17.
Cable support. O. W. Brenizer. Re15,581; Apr. 17.
Calculating device. M. A. Pursel. 1,451,890; Apr. 17.
Calendar. W. H. Baker. 1,452,407; Apr. 17.
Camera. V. Calabrese. 1,452,413; Apr. 17.
Camera attachment. A. Payne. 1,451,956; Apr. 17.
Camper's combination utensil. E. Brecel. 1,452,337; Apr. 17.
Can: *See*—
Key-opening can.
Can opener. A. C. Burke. 1,452,287; Apr. 17.
Candy mint. H. W. Alexander, jr. Des. 62,213; Apr. 17.
Car brake. R. N. Coats. 1,451,942; Apr. 17.
Car door. H. C. Priebe. 1,451,960; Apr 17.
Car, Dumping. G. L. Hancock. 1,452,198; Apr. 17.
Car end, Plate-metal. O. S. Hart. 1,451,948; Apr 17.
Car for short logs, Logging. F. W. Chriswell. 1,451,940; Apr. 17.
Car truck. G. S. Chiles. 1,452,187; Apr. 17.
Car truck, Mining-. J. R. Fleming. 1,451,690; Apr. 17.
Cars, Apparatus for loading and unloading railway. H. H. Baughan and E. C. Gaines. 1,451,748; Apr. 17.
Cars, Apparatus for preventing the stealing of motor. M. A. Hamon. 1,452,240; Apr. 17.
Cars, Brake head and shoe for railway. O. Kongsrud. 1,451,914; Apr. 17.
Carburetor. A. H. Webber. 1,452,451; Apr. 17.
Carburetors, Air-washing attachment for. J. L. Wells. 1,452,231; Apr. 17.
Casting articles of metal, Apparatus for. S. P. Marshall. 1,452,245; Apr. 17.
Casting metals, Apparatus for. N. K. B. Patch. 1,452,480; Apr. 17.
Casting metals, Art of and apparatus for. S. P. Marshall. 1,452,246; Apr. 17.
Cementitious products, Mold for making. T. A. Mayberry. 1,452,247; Apr. 17.
Centering device. P. Forkardt. 1,452,034; Apr. 17.
Centrifugal separation, Process and apparatus for. C. A. Porter and O. C. Brewster. 1,452,388; Apr. 17.
Centrifugal separator. R. E. Lapham. 1,451,779; Apr. 17.
Chain and making same. S. Bolgár. 1,452,408; Apr. 17.
Chain, Box-link. W. E. Willis. 1,452,058; Apr. 17.
Chain link. C. E. Carter. 1,452,476; Apr. 17.
Chain, Tractor-wheel. J. C. French. 1,451,872; Apr. 17.
Char, Apparatus for drying. H. E. Niese. 1,452,166; Apr. 17.
Chick box, Safety. D. H. Bucks. 1,451,760; Apr. 17.
Circuits, Multiplex selecting. M. Suitzer. 1,451,746; Apr. 17.
Clamp: *See*—
Furniture clamp.
Screw clamp.
Clamp. H. W. French. 1,451,692; Apr. 17.
Clamps, switches, etc., in electric distributing systems, Manipulating stick for. T. F. Johnson, jr. 1,451,832; Apr. 17.
Cleaner: *See*—
Roll cleaner.
Windshield cleaner.
Cleansing. I. Pollack. 1,452,093; Apr. 17.
Clip: *See*—
Electrical testing clip.
Clod crusher. O. Carom. 1,452,184; Apr. 17.
Closure. L. Rupert. 1,452,391; Apr. 17.
Clothes-drying apparatus. H. Cave. 1,452,066; Apr. 17.
Clutch, Friction. C. G. Oberley and R. Grignon. 1,452,349; Apr. 17.
Clutch pedals, Lever control for. S. A. Sandberg and A. F. Jeanblanc. 1,452,170; Apr. 17.
Clutch-spring remover. N. Verdoorn. 1,451,852; Apr. 17.
Coal trimmer. G. F. Wieseckel. 1,452,012; Apr. 17.
Cock, Automatic angle. F. D. Sprague. 1,452,473; Apr. 17.
Coffin construction. S. H. Deuel. 1,452,029; Apr. 17.
Collar, Horse. J. H. Woodward. 1,451,750; Apr. 17.
Collars and the like, Machine for use in the manufacture of linen. E. B. Fenby. 1,452,111; Apr. 17.
Color-mixing device. L. S. Bower. 1,451,810; Apr. 17.
Combination heater. D. O. Miller. 1,452,249; Apr. 17.
Combination lock. J. O'Kelly. 1,451,954; Apr. 17.
Compacts, Holder for. F. J. M. Miles. 1,451,740; Apr. 17.
Compass, Gyroscopic. H. L. Tanner. 1,452,485; Apr. 17.
Compressor. C. W. Vollmann. 1,451,723; Apr. 17.
Compressor, Rotary. M. Balcker. 1,451,859; Apr. 17.
Compressor, Rotary. H. A. Campbell. 1,452,024; Apr. 17.
Computing scale with interchangeable charts. G. M. Ludlow. 1,451,703; Apr. 17.
Concrete and other buildings, Flashing fastening for. R. P. Burrows. 1,452,412; Apr. 17.
Concrete blocks, Means for molding. G. J. Saffert. 1,451,714; Apr. 17.
Concrete door-frame construction. G. J. Saffert. 1,451,713; Apr. 17.
Concrete-mixing machine. H. K. Fox and G. J. Fisher. 1,451,819; Apr. 17.
Concrete roofs, Construction of. W. E. Clifton and J. S. Ewart. 1,452,362; Apr. 17.
Conductors, Making leading-in. W. G. Housekeeper. 1,452,275; Apr. 17.
Conduit, Flexible. R. C. Agner. 1,451,800; Apr. 17.
Conduit, Hot-air. J. Novak. 1,451,887; Apr. 17.
Container. J. M. Falls. 1,451,768; Apr. 17.
Container, Antiseptic. F. C. Leahy and G. H. Hileman. 1,452,299; Apr. 17.
Container, Folding veneer. W. E. La Belle. 1,451,989; Apr. 17.
Container, Vacuum hinge-cover. J. M. Hothersall. 1,451,875; Apr. 17.
Cooker. N. B. Henry. 1,451,729; Apr. 17.
Cooking and washing utensil. W. E. Warner. 1,452,261; Apr. 17.
Cooking device. A. Miller. 1,452,208; Apr. 17.
Coop, Folding. G. W. Vandevender. 1,451,972; Apr. 17.
Cores, Prolonging the life of expansible vulcanizing. J. D. Tew. 1,452,326; Apr. 17.
Cotton and other fibrous materials, Machine for opening and cleaning. H. Wilkinson. 1,452,133; Apr. 17.
Cotton-chopping machine. R. Henry. 1,452,046; Apr. 17.
Counter. T. P. Jensen. 1,452,242; Apr. 17.
Coupling: *See*—
Electric conductor coupling.
Coupling-release rigging. S. H. Campbell. 1,452,358; Apr. 17.
Covers on cores, Machine for stitching. P. Rissmann. 1,451,962; Apr. 17.
Crate, Folding. B. S. Allen. 1,452,404; Apr. 17.
Crusher: *See*—
Clod crusher.
Cue-tip fastener. H. J. Grenier. 1,452,420; Apr. 17.
Cultivator. E. S. Roush. 1,452,442; Apr. 17.
Cultivator. W. A. Stockton. 1,452,398; Apr. 17.
Cultivator attachment. L. Jeffres. 1,451,607; Apr. 17.
Curling-iron heater. H. G. Levy. 1,452,163; Apr. 17.
Curtain stretcher. F. A. Cmejla. 1,452,415; Apr. 17.
Curtains, Fastener for vehicle. C. J. Foster and R. D. Simpson. 1,452,150; Apr. 17.
Cutting tool. R. F. Smallwood. 1,451,966; Apr. 17.
Cylinder for spinning frames, spoolers, and cylinders of like nature, Split hub head for. W. Herron and J. H. Jester. 1,451,982; Apr. 17.
Damper. J. W. Keller and R. S. Congar. 1,451,985; Apr. 17.
Declinkering apparatus, Power. G. R. Bradley. 1,452,336; Apr. 17.
Dehydrator. W. Meredith. 1,452,207; Apr. 17.
Dental articulator. E. L. Chott. 1,452,477; Apr. 17.
Dental tool. G. G. Bell. 1,451,809; Apr. 17.
Dental-tool holder. J. E. Baldridge. 1,451,806; Apr. 17.
Desk chair. W. O. Jones. 1,452,343; Apr. 17.
Di-chloramine-T, Solution of. F. H. Young. 1,451,857; Apr. 17.
Die holder. W. D. Pierson. 1,452,312; Apr. 17.
Dimming mechanism. A. Herz. 1,452,115; Apr. 17.
Dish, Fruit. W. H. Magee. Des. 62,229; Apr. 17.
Dish or vessel cover. M. Kaniuk. Des. 62,227; Apr. 17.
Dish rack. P. Cunneen. 1,452,418; Apr. 17.
Dishwashing machine. A. L. Hatfield. 1,452,156; Apr. 17.
Disk grinder. J. Miller, jr. 1,452,209; Apr. 17.
Dispatch system, Pneumatic-. J. G. Maclaren. 1,452,280; Apr. 17.
Display container and advertising in connection therewith. J. B. Singer and A. B. Levy. 1,452,257; Apr. 17.
Display container and holder. H. Kind. 1,452,278; Apr. 17.
Display window. C. W. Kress. 1,451,778; Apr. 17.
Doll. G. T. McCann. Des. 62,223; Apr. 17.
Doll, Mechanical. D. Zalden. 1,452,134; Apr. 17.
Door and window buck. J. H. Heue. 1,452,116; Apr. 17.
Drapery hanger. G. U. Angevine. 1,451,754; Apr. 17.
Drill: *See*—
Power-lift drill.
Drill. J. C. Stokes. 1,451,794; Apr. 17.

Drills, Air-feed control for rock. L. C. Bayles. 1,452,140; Apr. 17.
Drills, Rotation release for rock. C. C. Hansen. 1,452,154; Apr. 17.
Drilling machines, Control mechanism for well-. H. J. Lockhart. 1,452,244; Apr. 17.
Drink mixer. R. B. Gilchrist. 1,452,197; Apr. 17.
Driving box, Wedgeless. A. S. Brandock. 1,452,235; Apr. 17.
Drum root cutter with a horizontal axis. A. Maguin. 1,452,124; Apr. 17.
Dyeing machine. F. C. W. Stelter. 1,452,129; Apr. 17.
Dyestuffs and making same, Black azo. A. L. Laska and A. Zitscher. 1,452,083; Apr. 17.
Dynamo frame and forming same. J. Burke. 1,452,143; Apr. 17.
Earring. B. C. Lutkins. Des. 62,222; Apr. 17.
Earth loader. E. B. Winters. 1,452,330; Apr. 17.
Electric circuits, Connecting device for. S. M. Esler. 1,452,267; Apr. 17.
Electric-conductor coupling. T. H. Fenn. 1,451,979; Apr. 17.
Electric heater, Collapsible. E. J. McCormack. 1,452,304; Apr. 17.
Electric heating appliance. E. N. Lightfoot. 1,451,880; Apr. 17.
Electric lock and door-control device. C. L. Wolfe and J. A. Faurat. 1,452,014; Apr. 17.
Electric riveting machine and process. A. B. Rypinski. 1,451,894; Apr. 17.
Electric switch. C. N. Alter. 1,452,333; Apr. 17.
Electric construction, System of. A. T. Sampson. 1,452,169; Apr. 17.
Electrical discharge device. R. A. Heising. 1,452,339; Apr. 17.
Electrical signaling and recording system. J. M. Diegel. 1,451,900; Apr. 17.
Electrical testing clip. G. B. Dusinberre. 1,452,194; Apr. 17.
Elevator: *See*—
Portable elevator.
Rod elevator.
Enamel composition. A. F. Pozdech. 1,452,219; Apr. 17.
Engine: *See*—
Internal-combustion engine.
Two-stroke-cycle internal-combustion engine.
Engine shaft, clutch, and transmission, Combined. W. S. Harley. Re15,578; Apr. 17.
Engines, Combined spark intensifier and detector for internal-combustion. C. H. Bedingfield. 1,451,808; Apr. 17.
Engines, Exhaust silencer for internal-combustion. C. G. Pullin. 1,452,435; Apr. 17.
Engines, Fuel-supply pump for internal-combustion. H. F. Leissner. 1,452,428; Apr. 17.
Engines, Sparking plug for internal-combustion. H. F. Holworthy. 1,452,118; Apr. 17.
Engines, Timer for internal-combustion. L. A. Eckermann. 1,452,419; Apr. 17.
Entertainment apparatus, Synchronous operation of. W. H. Bristol. 1,452,063; Apr. 17.
Eraser holder. H. Weig. 1,451,933–4; Apr. 17.
Eraser, Steel. J. Berg. 1,451,938; Apr. 17.
Evaporating apparatus. H. S. Mellott. 1,451,839; Apr. 17.
Exchange system, Private-branch-. M. L. Nelson. 1,451,885; Apr. 17.
Exterminator trap. C. J. Swank. 1,451,720; Apr. 17.
Extractor: *See*—
Bottle-disk extractor.
Eye shade. W. F. Mahony. 1,452,305; Apr. 17.
Fabric, Woven. G. M. Fauser. Des. 62,215–9; Apr. 17.
Fastening device. G. E. Franquist. 1,452,196; Apr. 17.
Fastening, Temporary. S. W. Taylor. 1,451,970; Apr. 17.
Feeder, Chicken. J. Null. 1,452,215; Apr. 17.
Feeding machine. A. F. Sternad. 1,451,897; Apr. 17.
Feeding machine and method, Self-. W. B. Peirce. 1,452,053; Apr. 17.
Fender: *See*—
Accident-proof automobile fender.
Fibers according to their length, Apparatus for grading or separating. W. L. Balls. 1,452,352; Apr. 17.
Fibers according to their lengths, Apparatus for grading or separating. W. L. Balls and F. Hutchins. 1,452,353; Apr. 17.
Film machines, Magazine for. R. W. Pittman. 1,451,842; Apr. 17.
Finger ring, pin, brooch, or similar article. J. Wodiska. Des. 62,226; Apr. 17.
Fire-control apparatus especially for naval guns. W. Akemann. 1,452,015; Apr. 17.
Fire extinguisher, Automatic. C. Ladd-Davis. 1,451,915; Apr. 17.
Fire extinguisher for distributing aqueous-like fluent material, Automatic. C. Ladd-Davis. 1,451,916; Apr. 17.
Firearms, Magazine catch and release for. G. Hammond. 1,452,042; Apr. 17.
Fish-rod holder. G. Hipwood. 1,451,732; Apr. 17.
Fishhook. A. H. Hanselman. 1,452,377; Apr. 17.
Fishing lure. F. A. Cass. 1,452,359; Apr. 17.
Fluids, Method and apparatus for proportionally regulating the flow of. C. S. Collins and L. Roessel. 1,452,265; Apr. 17.
Fluids, Separator for gaseous. O. P. Luetscher. 1,452,204; Apr. 17.
Footwear, Resilient tread for. F. A. Nolan. 1,452,089; Apr. 17.
Fruit picker. S. Van Duyne. 1,452,175; Apr. 17.
Fruit-pitting machine. G. R. Paranteau. Re15,579; Apr. 17.
Fuel, Utilizing solid. H. Gutlin. 1,452,239; Apr. 17.
Furnace: *See*—
Liquid-fuel furnace.
Furnace or kiln, Rapid decorating firing. R. W. Davenport. 1,451,815; Apr. 17.
Furnaces, Fire arch for. E. E. Frozeth and T. Blixt. 1,452,295; Apr. 17.
Furnaces, Grate for shaft. H. Stehmann. 1,452,006; Apr. 17.
Furniture clamp. A. Margelis. 1,452,164; Apr. 17.
Furniture, Combination. A. L. Neil. 1,452,434; Apr. 17.
Furniture, Convertible. L. E. Holmes. 1,452,117; Apr. 17.
Furniture-leveling device. G. R. Perry. 1,451,999; Apr. 17.
Fuse, Cartridge. M. R. Rodrigues. 1,452,255; Apr. 17.
Games, Racket for tennis and similar. W. A. Larned. 1,451,836; Apr. 17.
Gaming apparatus, Outdoor. F. T. Wakefield. 1,452,350; Apr. 17.
Garter. M. D. Price. 1,452,001; Apr. 17.
Gas burner. W. V. Robinson. 1,452,440; Apr. 17.
Gas burner. G. E. Sharpe. 1,451,716; Apr. 17.
Gas expansion and absorption, Process and apparatus therefor. J. C. Bertsch. 1,452,061; Apr. 17.
Gas trap float. M. J. Trumble. Re15,580; Apr. 17.
Gate-adjusting means, Wicket-. M. Haeberlein. 1,451,694; Apr. 17.
Gauge: *See*—
Band-tying gauge.
Internal gauge.
Liquid head gauge.
Liquid-level gauge.
Pressure gauge.
Gear-cutting machines, Mechanism for testing. C. G. Olson. 1,451,921; Apr. 17.
Gear, Differential. W. M. Shirley. 1,452,316; Apr. 17.
Gear, Draft. H. C. Priebe. 1,451,959; Apr. 17.
Gear, Draft. H. C. Priebe. 1,451,961; Apr. 17.
Gear, Reversible driving. W. D. Smith. 1,451,793; Apr. 17.
Gears, Apparatus for cutting toothed. F. M. Lewis. 1,452,121; Apr. 17.
Gearing. G. Slider. 1,452,222; Apr. 17.
Girdle for women's apparel. O. David. 1,452,148; Apr. 17.
Glass dish. W. H. Magee. Des. 62,228; Apr. 17.
Glass, Process and apparatus for feeding. W. J. Miller. 1,451,707; Apr. 17.
Glove. W. E. Haseltine. 1,451,949; Apr. 17.
Glue container and brush holder. F. R. Jordan. 1,451,984; Apr. 17.
Golfing outfit. W. S. Luckett. 1,452,084; Apr. 17.
Gopher trap. S. Davis. 1,452,028; Apr. 17.
Governor, Centrifugal. H. F. Dobbin. 1,452,266; Apr. 17.
Grader and ditcher, Road. H. L. Dever. 1,452,365; Apr. 17.
Grand-stand construction. B. J. Lambert. 1,452,467; Apr. 17.
Grate apparatus, Extension. G. W. Ruggles. 1,452,314; Apr. 17.
Grate bar. W. A. Vietor. 1,452,130; Apr. 17.
Grill, Cooking. M. Tocchio. 1,451,971; Apr. 17.
Grinding and truing machine, Wheel. J. C. Price. 1,451,958; Apr. 17.
Grinding or crushing machine. D. J. G. Miller and R. A. Lloyd. 1,452,088; Apr. 17.
Gun carriage having divergible trail, Wheeled. E. Schneider. 1,451,848; Apr. 17.
Gun, Machine. J. C. R. McCrudden. 1,452,123; Apr. 17.
Guns, Actuator for machine. M. L. Johnston. 1,452,465; Apr. 17.
Gyroscopes, Horizontal bearing for. E. A. Sperry, jr. 1,452,483; Apr. 17.
Gyroscopic top and making same. J. C. Forster. 1,451,818; Apr. 17.
Hanger: *See*—
Drapery hanger.
Handle-adjusting mechanism. H. J. Cook. 1,452,192; Apr. 17.
Harvesters, Controlling mechanism for. C. Pearson. 1,452,282; Apr. 17.
Hat brims, Machine for finishing the edges of. F. E. Kauffmann. 1,452,049; Apr. 17.
Hat-clipping machines. F. E. Kauffmann. 1,452,048; Apr. 17.
Headlight. W. D. Ryan. 1,451,893; Apr. 17.
Headlight, Dirigible. C. Glaholt. 1,451,893; Apr. 17.
Headlight, Vehicle. K. Bye and P. Werle. 1,451,862; Apr. 17.
Heat and light burner, Combined gas. J. McCauley. 1,451,951; Apr. 17.
Heat, Apparatus for transferring. C. Field. 1,451,901; Apr. 17.
Heat-transferring apparatus. C. Field. 1,451,903–4; Apr. 17.
Heater: *See*—
Collapsible electric heater.
Combination heater.
Liquid heater.
Portable oil heater.
Heater or vaporizer. I. E. Aske. 1,452,105; Apr. 17.

Hedge trimmer. J. A. Houseman. 1,452,462; Apr. 17.
High-power dry battery. A. A. Wells. 1,452,230; Apr. 17.
Horseshoe. H. A. Frey. 1,451,905; Apr. 17.
Horseshoe, Hoof-protecting. D. Simon and A. Gottlieb. 1,452,317; Apr. 17.
Hubs, Making metal wheel. J. L. Hecht. 1,452,200; Apr. 17.
Ice-cream cone. O. S. Katzick. Des. 62,220; Apr. 17.
Ice machine, Compressed-air. V. A. Wilson. 1,452,403; Apr. 17.
Ignition coil. H. R. Patterson. 1,452,167; Apr. 17.
Implement support and carriage. D. E. Richardson. 1,452,003; Apr. 17.
Incinerator. H. E. Elrod. 1,452,031; Apr. 17.
Index. R. C. Russell. Re15,582; Apr. 17.
Indicator: *See*—
Low-water indicator. Velocity indicator.
Time indicator.
Indicator, Motor. C. J. Henschel. 1,452,157; Apr. 17.
Indices and knitting the same, Fashioning. W. S. Parker and J. Jesperson. 1,451,841; Apr. 17.
Inking mechanism. C. W. Harrold. 1,452,043; Apr. 17.
Insulated connector. L. Steinberger. 1,451,969; Apr. 17.
Insulator. L. Steinberger. 1,451,968; Apr. 17.
Intaglio machines, Bearing and fountain adjustment for. A. M. Zuckerman. 1,451,726; Apr. 17.
Internal-combustion engine. J. Fons Pont. 1,452,125; Apr. 17.
Internal-combustion engine. W. E. Jory. 1,452,202; Apr. 17.
Internal-combustion engine. H. E. Watton. 1,452,011; Apr. 17.
Internal-combustion engine, Two-stroke-cycle. V. Spuhler. 1,452,005; Apr. 17.
Internal gauge. K. Lauer. 1,451,736; Apr. 17.
Iron: *See*—
Inside pocket iron.
Jack: *See*—
Auto jack. Platform ladder jack.
Joint: *See*—
Ball joint. Rail joint.
Pipe joint. Universal joint.
Key holder. L. G. Andrews and R. R. Theis. 1,451,802; Apr. 17.
Key-opening can. D. B. De Land. 1,451,869; Apr. 17.
Kiln: *See*—
Reversing blower kiln.
Knee pad. C. L. Clarke. 1,452,360; Apr. 17.
Knife adjustment, Ensilage-cutter. E. S. Charles. 1,452,289; Apr. 17.
Knitted materials and the like, Machine-made seam for. H. E. Esche. 1,452,195; Apr. 17.
Knitting machines, Pattern-control mechanism for. V. W. Andelsen. 1,452,137; Apr. 17.
Ladder jack, Platform. C. A. Butrum. 1,452,182; Apr. 17.
Ladder, Store. H. P. Howard. 1,452,076; Apr. 17.
Lamp bracket. W. C. Baer. 1,452,138; Apr. 17.
Lamp doors, Lock for. E. W. Driemeyer. 1,451,870; Apr. 17.
Lantern support. B. W. Nutt. 1,451,920; Apr. 17.
Latch. W. L. Myers. 1,452,211; Apr. 17.
Latch mechanism. R. L. Ford. 1,452,479; Apr. 17.
Lemon squeezer. W. E. Gray. 1,452,270; Apr. 17.
Lens blanks, Apparatus for the manufacture of bifocal. J. R. Powell. 1,451,957; Apr. 17.
Letter sign and the like, Loose-. T. N. Evens. 1,452,074; Apr. 17.
Lever, Dobby. E. R. Holmes. 1,451,828; Apr. 17.
License plate. C. C. Doty and C. W. Coffey. 1,451,765; Apr. 17.
Life-saving garment. O. F. Bunn. 1,452,411; Apr. 17.
Lifting jack and hauler. C. E. Clews and A. W. Beere. 1,452,236; Apr. 17.
Liquid and vapor separator. H. G. Nevitt. 1,452,253; Apr. 17.
Liquid container, Leakproof. J. H. Gravell. 1,452,039; Apr. 17.
Liquid-fuel atomizing device. W. W. Williams. 1,451,798; Apr. 17.
Liquid-fuel furnace. C. G. Hawley. 1,452,380; Apr. 17.
Liquid head gauge. E. H. Bristol. 1,452,142; Apr. 17.
Liquid heater. W. F. Clark. 1,451,863; Apr. 17.
Liquid-level gauge. A. B. Shultz. 1,451,965; Apr. 17.
Liquids, Device for the preservation and aseptic drawing off of. J. Arnold. 1,451,937; Apr. 17.
Liquids, Heating device for. C. E. Parkhurst. 1,452,311; Apr. 17.
Liquids, Means for dehydrating alcoholic. M. D. Mann, jr. 1,452,206; Apr. 17.
Liquids, Starting device for treating. J. P. Ball. 1,452,335; Apr. 17.
Loader. W. T. Jones. 1,452,080; Apr. 17.
Lock: *See*—
Automobile lock. Transmission lock.
Combination lock. Vehicle door lock.
Railway switch lock.
Lock. M. Arm. 1,452,406; Apr. 17.
Lock. M. Sheinman. 1,451,788; Apr. 17.
Lock. F. P. Shek. 1,452,393; Apr. 17.
Lock and lock mounting. E. C. Kline. 1,452,471; Apr. 17.
Lock mechanism. H. H. Claussen. 1,452,190; Apr. 17.
Locomotive. T. E. Pray. 1,451,889; Apr. 17.
Locomotive combustion regulator. E. T. D. Myers, jr. 1,452,210; Apr. 17.
Locomotive-wheel-hub liner. J. B. Michael. 1,452,165; Apr. 17.
Log-carriage-offsetting mechanism. S. Erb. 1,452,140; Apr. 17.
Loom. J. C. Upton. 1,452,057; Apr. 17.
Looms, Vibrator lever for. W. M. Wattie. 1,451,797; Apr. 17.
Lowering device. C. F. Davy. 1,452,070; Apr. 17.
Lubricating apparatus. E. P. Larsh. 1,451,701; Apr. 17.
Lubricator. N. Paquette. 1,451,710; Apr. 17.
Lubricator cup. C. F. Wray. 1,451,854; Apr. 17.
Lug ring. A. T. J. Bahr. 1,451,804; Apr. 17.
Mail-bag delivery and receiving crane. H. Barlow and J. E. H. Mathies. 1,452,234; Apr. 17.
Mail box, Rural. J. R. Jewett, jr. 1,451,876; Apr. 17.
Mandrel. O. E. Kent. 1,451,699; Apr. 17.
Manicure buffer. N. W. Chapman. 1,452,067; Apr. 17.
Manifold, Extension. A. Nelson. 1,452,213; Apr. 17.
Manifolding pack and holder. J. A. B. Smith. 1,451,791; Apr. 17.
Manure spreader. J. G. Bailey. 1,452,139; Apr. 17.
Marking machine. D. W. Morley. 1,451,709; Apr. 17.
Massaging device. F. H. Auld. 1,452,106; Apr. 17.
Match box. D. B. Macdonald. 1,451,953; Apr. 17.
Match box. D. B. Macdonald. 1,451,882; Apr. 17.
Match-dipping machines, Filling apparatus for. K. P. Gottschalk. 1,452,376; Apr. 17.
Matches of paper, pasteboard, or the like and still connected in the shape of a continuous strip or band, Apparatus for adjusting and fixing the setting or straddling of partly-cut. K. P. Gottschalk. 1,452,375; Apr. 17.
Matches of wood, pasteboard, paper, or the like with paraffin, Apparatus for impregnating. K. P. Gottschalk. 1,452,374; Apr. 17.
Measuring and cost computing machine, Fabric. G. B. Kyle. 1,452,279; Apr. 17.
Measuring bodies, Method of and machine for. J. J. Heys. 1,451,730; Apr. 17.
Meat-cutting machine. J. A. Baumgartner. 1,451,674–5; Apr. 17.
Meat chopper and making same. T. F. Ratalczak. 1,451,891; Apr. 17.
Meat-tendering machine. L. A. Short. 1,452,098; 1,452,098; Apr. 17.
Mechanical movement. G. Slider. 1,452,221; Apr. 17.
Memorandum pad, Desk. H. T. Platz. 1,452,092; Apr. 17.
Mercurial composition. H. M. Spencer. 1,451,850; Apr. 17.
Messages to moving trains and the like, Apparatus for delivering. J. Rutter. 1,452,443; Apr. 17.
Metaldehyde, Burner for burning. C. Tommasi, J. Sandholm, H. Danneel, and A. Busch. 1,452,450; Apr. 17.
Metallizing articles. Q. Marino. 1,452,281; Apr. 17.
Metal, Purifying molten. W. T. Davis. 1,452,364; Apr. 17.
Metal scouring and ungreasing device. M. Heller. 1,451,981; Apr. 17.
Metal sheets, Mechanism for stamping large hot. W. A. Lacke. 1,451,879; Apr. 17.
Meter-dial guards, Cleaner for. M. O. Allen. 1,452,018; Apr. 17.
Mice, rat, or other vermin trap. W. Mark and F. J. Parker. 1,452,087; Apr. 17.
Milk boiler. M. Kaniuk. 1,452,344; Apr. 17.
Milking apparatus, Meter for. W. L. Leisge. 1,451,738; Apr. 17.
Milking-machine relay. S. H. Hall. 1,452,153; Apr. 17.
Mill: *See*—
Pulverizing mill.
Mines, Arch support for. R. Novotny. 1,451,840; Apr. 17.
Mixer: *See*—
Drink mixer.
Molds, Means for filling. W. S. Hildebrand. 1,452,381; Apr. 17.
Motion, Mechanism for converting rotary into oscillatory. R. Goldschmidt. 1,452,038; Apr. 17.
Motors, Controller for. C. W. Plehaty. 1,452,472; Apr. 17.
Movement and base therefor, Mechanical. C. F. Henry and J. M. Hulett. 1,452,273; Apr. 17.
Mower, Tractor lawn. W. H. Baldwin. 1,451,807; Apr. 17.
Mowing-machine sickle bars, Attachment for. G. W. Clinkinbeard. 1,451,680; Apr. 17.
Muffler, Exhaust. C. G. Stockton. 1,452,056; Apr. 17.
Musical instruments, Tuning device for stringed. H. O. Hammer. 1,452,075; Apr. 17.
Navigation device, Magnetic gyroscopic. H. L. Tanner. 1,451,928; Apr. 17.
Nest, Hen's. E. A. Baxter. 1,452,141; Apr. 17.
Nickel formate. C. Ellis. 1,452,478; Apr. 17.
Nozzle, Adjustable spray. H. D. Binks. 1,452,264; Apr. 17.
Nut. Lock. H. Ellingson. 1,452,367; Apr. 17.
Nut. Lock. F. S. Hamilton. 1,452,422; Apr. 17.
Oar. A. J. Wiltrout. 1,451,749; Apr. 17.
Oil. Apparatus for refining crude. J. Mayes. 1,451,739; Apr. 17.

Oil burner. F. J. Atkins. 1,452,020; Apr. 17.
Oil burner, Wickless. A. J. Blackford. 1,452,354; Apr. 17.
Oil burner, Nonpreheating. C. Heskett. 1,451,950; Apr. 17.
Oil circulation and oil pressure, Device for indicating the. W. Schwerdtfeger. 1,451,849; Apr. 17.
Oil heater. T. F. Hatton. 1,451,772; Apr. 17.
Oil heater, Portable. R. Hoffman. 1,451,910; Apr. 17.
Oiler, Spring. G. T. Lemelin. 1,452,429; Apr. 17.
Olefines, Segregating. L. C. Stewart. 1,452,322; Apr. 17
Ophthalmic mounting. T. M. Howe. 1,451,696; Apr. 17.
Ophthalmic mounting. F. N. Kreisel. 1,451,785; Apr. 17.
Orchards, Device for preventing frost in. D. Mackenzie. 1,451,994; Apr. 17.
Ores and recovery of copper, Leaching of copper. J. Irving. 1,451,734; Apr. 17.
Ovens, Means for ventilating drying. A. Maehler. 1,451,883; Apr. 17.
Package. W. M. Wheildon. 1,452,100; Apr. 17.
Package, Bumper. G. A. Lyon. 1,451,781; Apr. 17.
Package, Sanitary. M. Crupain. 1,452,456; Apr. 17.
Package, Separable multiple unit bumper. G. A. Lyon. 1,451,780; Apr. 17.
Package, Toilet-article. M. Crupain. 1,452,363; Apr. 17.
Packages, bags, and the like, Apparatus for heaping or piling up. J. C. Thouviot. 1,452,449; Apr. 17.
Packing for steam turbines. C. W. Dake. 1,452,147; Apr. 17.
Packing in combustible material for unsweating the same, Packaging rod. G. C. Jerome. 1,452,159; Apr. 17.
Packing pump. J. J. Cullinan. 1,451,814; Apr. 17.
Pad: *See*—
Desk memorandum pad. Knee pad.
Padlock. F. E. Best. 1,451,860; Apr. 17.
Paper clip and envelope opener, Combined. V. Jacquemin. 1,452,341; Apr. 17.
Paper-cutting machine. L. A. Straubel. 1,452,227; Apr. 17.
Paper, Device for readily fastening together loose leaves of. G. Jobst. 1,451,777; Apr. 17.
Paper shot shell. J. S. Gravely. 1,452,040; Apr. 17.
Paper-testing machine. J. W. Webb. 1,451,932; Apr. 17.
Paper waxing and sizing composition. F. L. Pullen. 1,452,389; Apr. 17.
Paving, Compensating filler for block. R. Lamb. 1,452,120; Apr. 17.
Pen or pencil case. F. J. Kristofek. Des. 62,221; Apr. 17.
Pencil. W. C. Steffen, F. B. Ackermann, and W. J. Greiner. Des. 62,224; Apr. 17.
Pencil sharpener and guard, Combined. F. Williams. 1,452,013; Apr. 17.
Percolator. E. G. Rowley. 1,452,256; Apr. 17.
Phonograph cabinet. J. B. Weeks. 1,452,132; Apr. 17.
Phonograph reproducer. A. B. Rehn. 1,452,004; Apr. 17.
Phonographic apparatus. H. P. Clausen. 1,452,361; Apr. 17.
Photographic-printing machines, Apparatus for positioning the printing plates on the plate holders of. W. C. Huebner. 1,452,078; Apr. 17.
Photographic prints, Device for straightening. C. H. Rise. 1,452,438; Apr. 17.
Photographic-projection printing apparatus. W. C. Huebner. 1,452,077; Apr. 17.
Photography, Two-color. J. K. Holbrook and M. De Francisco. 1,451,774; Apr. 17.
Piano bench and music cabinet, Combined. G. H. Merkel. 1,451,996; Apr. 17.
Piano, Player. W. B. Tunstall. 1,452,174; Apr. 17.
Picker: *See*—
Fruit picker.
Picker sticks, Cushion stop for. A. E. Rhoades. 1,451,845; Apr. 17.
Picture apparatus, Motion-. H. C. Williams. 1,422,101; Apr. 17.
Pile-cutting device. P. A. Wagner. 1,452,285; Apr. 17.
Pile driver, Duplex sheet-. J. Perna. 1,451,922; Apr. 17.
Piling, Hydraulic. H. Abrames. 1,451,753; Apr. 17.
Pipe joint. R. W. Higdon. 1,451,731; Apr. 17.
Pipe bender or elbow former. G. Jones. 1,452,383; Apr. 17.
Pipes, conduits, etc., Coupling for. F. W. Erickson. 1,452,268; Apr. 17.
Pistols, Disjointing device for automatic. N. Pieper. 1,452,000; Apr. 17.
Piston rings, Tool for inserting. R. Lee. 1,452,468; Apr. 17.
Plastic material from casein, Manufacture of solid. F. G. Maries. 1,452,086; Apr. 17.
Plow, Sulky. A. C. Lindgren. 1,452,301; Apr. 17.
Plug for water tube boilers, Safety. B. Hodgson. 1,452,047; Apr. 17.
Plug, Attachment. S. McClatchie. 1,451,704; Apr. 17.
Pneumatic action. A. P. Gustafson. 1,451,980; Apr. 17. Apr. 17.
Pocket iron, Inside. H. C. Brubacker. 1,451,813;
Portable elevator. E. N. Hescock. 1,451,773; Apr. 17.
Post puller. P. C. Madsen. 1,452,205; Apr. 17.
Potash recovery, Accelerating agent in. H. W. Charlton and R. N. Shreve. 1,452,186; Apr. 17.
Powder box. R. W. Oliver. 1,451,955; Apr. 17.
Powder puff. J. E. B. Maillard. 1,452,470; Apr. 17.
Powder-lift drill. H. B. Bozard and C. W. Robinson. 1,452,286; Apr. 17.
Power-transmission arrangement. M. E. Thompson. 1,452,327; Apr. 17.
Press: *See*—
Printing press. Swaging press.
Rotary printing press.
Pressing device. E. Reizenstein. 1,452,095; Apr. 17.
Pressure gauze. W. G. Housekeeper. 1,452,274; Apr. 17.
Pressure gauge. W. A. Ready. 1,452,126; Apr. 17.
Printing press. W. M. Kelly. 1,452,466; Apr. 17.
Printing presses, Inking mechanism for. C. A. Kellogg. 1,452,050–1; Apr. 17.
Printing press, Rotary. A. Terrey. 1,451,721; Apr. 17.
Prop or brace. P. Utter and P. W. Schenck. 1,452,329; Apr. 17.
Puller: *See*—
Beet puller. Post puller.
Pulley-shield device. F. O'Harrow. 1,451,743; Apr. 17.
Pulp thickener, Slime-. C. Allen. 1,452,016; Apr. 17.
Pulverizing mill. R. E. H. Pomeroy. 1,452,218; Apr. 17.
Pump. T. A. Spiker and J. E. Ayres. 1,452,318; Apr. 17.
Pump-actuating mechanism. H. F. Frederick. 1,451,691; Apr. 17.
Pump, Bilge. H. Hanson. 1,452,378; Apr. 17.
Pump, Force. E. J. Bloom. 1,451,861; Apr. 17.
Pump mechanism. P. Ostenberg. 1,452,091; Apr. 17.
Pump, Oil-well. A. A. Olsen. 1,451,784; Apr. 17.
Pumps, Differential governor for boiler feed. C. J. Smith. 1,452,223; Apr. 17.
Punching press and die therefor. B. S. Smith. 1,452,224; Apr. 17.
Rack: *See*—
Dish rack.
Radiotransmitter. V. Bush. 1,452,064; Apr. 17.
Radio variable rheostat. H. W. Tompkins. 1,452,399; Apr. 17.
Rail fastener. C. L. McCray. 1,451,838; Apr. 17.
Rail joint. L. Ekberg. 1,451,766; Apr. 17.
Railway rails, Anticreeper for. W. S. Weston. 1,451,898; Apr. 17.
Railways, Tongue switch and mate for. J. H. Asselin. 1,452,019; Apr. 17.
Railway-traffic-controlling apparatus. F. H. Nicholson. 1,452,214; Apr. 17.
Razor, Safety. G. A. Reiter. 1,452,002; Apr. 17.
Razor stropper. J. H. Payson. 1,451,844; Apr. 17.
Reamer, Expanding. P. Miller. 1,451,741–2; Apr. 17.
Reaming tool. W. Yerxa. 1,452,103; Apr. 17.
Receptacle, Dispensing. J. J. Coogan. 1,451,899; Apr. 17.
Recorder. W. N. McConnel. 1,452,122; Apr. 17.
Refrigerator. E. M. Meyer. 1,451,917; Apr. 17.
Refrigerator construction. H. J. Gwyer. 1,452,271–2; Apr. 17.
Refrigerator, Portable. I. M. Hampton, J. T. and L. J. Decker 1,451,823; Apr. 17.
Refrigerator vehicle. L. B. Olin. 1,452,090; Apr. 17.
Refrigerating apparatus. C. L. Hill. 1,452,461; Apr. 17.
Reel. L. S. Lachman and E. Fulda. 1,451,835; Apr. 17.
Reel. J. Sommer. 1,451,745; Apr. 17.
Regenerator. J. V. Peterka. 1,452,216; Apr. 17.
Register: *See*—
Autographic register.
Register. G. A. Byor. 1,451,761; Apr. 17.
Regulator: *See*—
Locomotive combustion regulator.
Resilient wheel. O. O. Hobson. 1,451,827; Apr. 17.
Resilient wheel. J. L. Donat. 1,452,294; Apr. 17.
Resilient wheel. J. F. Miller. 1,451,706; Apr. 17.
Resinous condensation products, Manufacture of. H. Plauson. 1,451,843; Apr. 17.
Resistance unit, Variable-. W. J. Cameron. 1,451,678; Apr. 17.
Reversing blower kiln. H. D. Tiemann and R. Theien. 1,451,747; Apr. 17.
Rewinding machine. L. A. Straubel. 1,452,228; Apr. 17.
Ring: *See*—
Lug ring.
Road drag. M. Stoffel. 1,452,260; Apr. 17.
Roasting machine. E. A. Bostrom. 1,452,409; Apr. 17.
Rod elevator. C. E. Sitzman. 1,452,127; Apr. 17.
Roll-balancing mechanism. L. Lee. 1,452,347; Apr. 17.
Roll cleaner. F. La Chapelle. 1,451,990; Apr. 17.
Roost, Collapsible. N. Egan. 1,452,366; Apr. 17.
Rope and cable tie. W. J. Flowers. 1,452,338; Apr. 17.
Rubber solution and producing it, Vulcanized-. W. B. Pratt. 1,451,711; Apr. 17.
Sagger-making machines, Blank-transfer mechanism for. F. J. Wolff. 1,452,331; Apr. 17.
Safe and vault protector. W. C. Beckwith. 1,451,974; Apr. 17.
Saw guide and guard, Band-. F. N. Brenner. 1,452,179; Apr. 17.
Saws, Combined molding-setting device for circular. L. Zeuffa. 1,452,233; Apr. 17.
Scale, Weighing. H. Cummer. 1,451,684; Apr. 17.
Screw clamp. K. Kissendorfer. 1,452,384; Apr. 17.
Seat spring. C. F. Green. 1,452,041; Apr. 17.
Seeder boot and shoe. M. Culbertson. 1,452,417; Apr. 17.
Seeds, Apparatus for separating. E. D. Eddy. 1,452,457; Apr. 17.
Separator: *See*—
Centrifugal separator.
Liquid and vapor separator.

Sewing-machine feeding mechanism. A. H. De Voe. 1,452,072; Apr. 17.
Shade fixture, Window-. N. Gugliuzzi. 1,451,947; Apr. 17.
Sharpening device. R. U. Irwin. 1,451,831; Apr. 17.
Sharpening machine, Automatic saw-. E. P. and H. W. Armstrong. 1,452,351; Apr. 17.
Sharpening the blades of safety razors, Apparatus for. C. T. Walker. 1,452,401; Apr. 17.
Sheet metal, Process of and device for drawing bellied objects of. C. Neubeauer. 1,451,998; Apr. 17.
Sheet music and the like, Binding case for holding. J. W. West. 1,452,452; Apr. 17.
Shelf and bracket, Combined. A. F. Carlin. 1,452,144; Apr. 17.
Shift mechanism, Case-. K. A. Lehmann. 1,451,737; Apr. 17.
Ship's cabin. E. Caspary. 1,452,026; Apr. 17.
Ships, Means for governing the rolling of. E. A. Sperry. 1,452,482; Apr. 17.
Shoe last. W. E. Deuttes. 1,452,237; Apr. 17.
Shoe-polishing device. M. J. Moreno. 1,452,386; Apr. 17.
Shoe, Swimming. O. F. Toebron. 1,452,400; Apr. 17.
Shoe uppers, Seam presser for. E. D. Morris. 1,452,251; Apr. 17.
Shoes, Machine for operating upon the soles of. L. A. Casgrain. 1,451,679; Apr. 17.
Shoestring fastener. B. M. Kleim and S. Wald. 1,451,988; Apr. 17.
Shovels and the like, Locking device for power. E. J. Armstrong. 1,451,803; Apr. 17.
Shuttle, Tatting. G. A. Carlson. 1,452,183; Apr. 17.
Sifting machine, Plan. H. Conrad. 1,452,290; Apr. 17.
Sign-flashing apparatus, Electric-. E. L. Ballew. 1,452,178; Apr. 17.
Sign, Variable. R. L. Kilpatrick. 1,451,986; Apr. 17.
Signal: *See*—
Auto signal.
Signal. L. G. Bell and M. Grimm. 1,452,455; Apr. 17.
Signaling systems, Oscillation generator for. J. F. Farrington. 1,452,032; Apr. 17.
Silicate composition. L. Seideman. 1,452,445; Apr. 17.
Silencer. H. A. Freeman. 1,452,035; Apr. 17.
Sinks, Waste fitting for. O. W. Vallier. 1,451,931; Apr. 17.
Sinks, Waste fitting for. H. De Wallace. 1,451,943; Apr. 17.
Slag disposal, Apparatus for furnace. C. G. Hawley. 1,452,045; Apr. 17.
Slicing machine, Meat-. G. Jaquette. 1,451,776; Apr. 17.
Sleigh, Motor. W. A. Horrocks. 1,451,733; Apr. 17.
Socket wrench, Adjustable. I. C. Gellman. 1,451,873; Apr. 17.
Sound box. C. S. Spitzer and J. Gloub. 1,452,319; Apr. 17.
Sound-reproduction article, Molded. E. E. Novotny. 1,451,783; Apr. 17.
Spark plug. F. Aragose. 1,452,177; Apr. 17.
Spark plug. C. A. Propst. 1,452,054; Apr. 17.
Spark plug. F. A. Carter. 1,451,939; Apr. 17.
Spark plugs, Making. G. R. Blodgett, M. E. Cheney and R. T. Hurley. 1,451,677; Apr. 17.
Speed-changing mechanism. F. A. Valentine. 1,451,722; Apr. 17.
Spindle. W. B. Hubbard. 1,451,829; Apr. 17.
Spindle. C. A. Proulx. 1,451,744; Apr. 17.
Spindle-adjusting mechanism, Drill-. R. F. Scott. 1,452,172; Apr. 17.
Spindle, Spinning. H. E. Brunner. 1,452,180; Apr. 17.
Spindle washer, Cap. J. T. Hemingway. 1,452,425; Apr. 17.
Spoon. S. B. Isaacs. 1,452,464; Apr. 17.
Spring: *See*—
Seat spring.
Spring-coiling machine. F. H. Sleeper. 1,452,128; Apr. 17.
Spring-seat construction. L. A. Young. 1,451,935; Apr. 17.
Spring structure. H. O. Heidenbach. 1,451,924; Apr. 17.
Springs, Forming compound. L. A. Young. 1,451,936; Apr. 17.
Springs, Support for vehicle. C. W. Thompson. 1,452,448; Apr. 17.
Sprinkler systems, Dry pipe mechanism for automatic. C. T. Clifford. 1,452,191; Apr. 17.
Stamping machine, Leather-. O. Halvorsen and A. H. Johnson. 1,452,421; Apr. 17.
Station stop device. W. F. Barnard. 1,452,022; Apr. 17.
Statuette. D. J. Morton. Des. 62,230; Apr. 17.
Stay or tab applying machine. C. H. Nitsch, W. A. Weightman, and W. H. Streeper. 1,451,782; Apr. 17.
Stencil. G. J. Evans. 1,451,816–7; Apr. 17.
Stock waterer. H. Terres. 1,452,325; Apr. 17.
Stocking. C. Loven. 1,452,302; Apr. 17.
Stoker, Automatic. R. F. Juengling. 1,452,081; Apr. 17.
Stool, Milking. H. E. Luebker. 1,452,303; Apr. 17.
Stone-surfacing machine. F. J. Gould. 1,452,113; Apr. 17.
Stop mechanism. J. B. Burton. 1,452,357; Apr. 17.
Stop mechanism. A. R. Havener. 1,451,728; Apr. 17.
Stoves, Hot-water attachment for. O. Evenson. 1,452,368; Apr. 17.
Stoves, Safety device for hot-blast. H. P. Howland and F. A. Wiley. 1,452,297; Apr. 17.
Stropper: *See*—
Razor stropper.
Stropping machine. C. E. Smith. 1,451,789; Apr. 17.
Stropping machines, Blade holder for. C. E. Smith. 1,451,790; Apr. 17.
Structures, Load-supporting connection for wheeled. O. L. Adams. 1,452,135; Apr. 17.
Sucker-rod-elevating device. P. G. Kildow. 1,451,700; Apr. 17.
Sulphur, Burning. H. S. Davis. 1,451,763; Apr. 17.
Superheater. W. F. Hills and W. H. Chard. 1,452,382; Apr. 17.
Supporting bracket, Adjustable. J. B. McMullen. 1,451,881; Apr. 17.
Supporting device, Collapsible. C. O. Robinson. 1,451,846; Apr. 17.
Surgical ligature and means for applying the same. J. S. Gómez. 1,452,373; Apr. 17.
Surgical suturing device. J. S. Gómez. 1,452,372; Apr. 17.
Swaging press. K. Böhle. 1,451,756; Apr. 17.
Sweater. L. Strauss. Des. 62,225; Apr. 17.
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CLASSIFICATION OF PATENTS

ISSUED APRIL 17, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham & Co. (See Abraham, Edward.)
Abraham, Edward, doing business as Abraham & Co., New York, N. Y. Buckles and resilient belt links for personal wear. 167,149; Apr. 24; Serial No. 145,542; published Dec. 12, 1922.
Aktiebolaget Galco, Stockholm, Sweden. Office supplies. 167,088; Apr. 24; Serial No. 147,149; published Feb. 6, 1923.
Alaska Packers Association, San Francisco, Calif. Canned salmon. 167,094; Apr. 24; Serial No. 166,804; published Jan. 30, 1923.
Albers Bros. Milling Co., Seattle, Wash. Wheat flour. 167,100; Apr. 24; Serial No. 168,744; published Jan. 23, 1923.
Albers Bros. Milling Co., Seattle, Wash. Wheat flour. 167,118; Apr. 24; Serial No. 164,853; published Dec. 19, 1922.
Albrecht, Fred W., Grocery Company, The, Akron, Ohio. Crackers. 167,216; Apr. 24. Serial No. 163,662; published Jan. 30, 1923.
Alexandria Potato Curing Company, Inc., Alexandria, La. Sweet potatoes in their natural state. 167,015; Apr. 24; Serial No. 162,475; published Jan. 30, 1923.
Allen, Chester S., Warren, Pa. Tool chests. 167,331; Apr. 24.
Alonso Bros., Brunswick, Ga. Cigars. 167,163; Apr. 24; Serial No. 171,245; published Jan. 9, 1923.
Alpina Cheese Co., Burgdorf, Switzerland. Cheese and preserved cheese. 167,136; Apr. 24; Serial No. 157,127; published Jan. 30, 1923.
Aluminum-Industrie-Aktien-Gesellschaft, Neuhausen, Switzerland. Crude and prepared aluminum and aluminum alloys. 167,243; Apr. 24; Serial No. 173,023; published Feb. 6, 1923.
American Pile Fabric Company, Philadelphia, Pa. Velours in piece goods, curtains, table scarfs, and pillow slips. 167,324; Apr. 24.
Animated Advertising Corporation, Lancaster, Pa., and New York, N. Y. Colored transparencies of the type of stereopticon slides. 167,316; Apr. 24.
Arango y Arango, Tampa, Fla. Cigars. 167,041; Apr. 24; Serial No. 170,676; published Jan. 16, 1923.
Ardath Tobacco Company, Limited, London, England. Smoking tobacco. 167,174; Apr. 24; Serial No. 171,981; published Jan. 9, 1923.
Arwe, Carl H., Manufacturing Company, Brooklyn, N. Y. Coffee, chocolate, water and other urns, sugar bowls, fruit bowls, and steam tables. 167,255; Apr. 24; Serial No. 169,742; published Feb. 6, 1923.
Atlanta Bottling Works. (See Fleming, J. A.)
Automatic Dishwasher Co., New York, N. Y. Dishwashing machines. 167,258; Apr. 24; Serial 168,996; published Feb. 6, 1923.
Babcock, A. P. Company, New York, N. Y. Perfumery, talcum, toilet, and face powders, rouge, etc. 167,300; Apr. 24.
Badger Wire & Iron Works, Milwaukee, Wis. Concrete mixers. 167,314; Apr. 24.
Baldwin Tool Works, Parkersburg, W. Va. Shovels, scoops, spades, posthole diggers, and wooden handles. 167,230; Apr. 24. Serial No. 166,644; published Jan. 30, 1923.
Ballard & Ballard Company, Louisville, Ky. Stock, poultry, and chick feeds. 167,147; Apr. 24; Serial No. 156,074; published Dec. 26, 1922.
Beaton & Cadwell Manufacturing Company, The, New Britain, Conn. Saw-handle trimmings. 167,261; Apr. 24; Serial No. 167,261; published Feb. 6, 1923.
Barnet, Craft and Kauffman Milling Company, St. Louis, Mo. Wheat flour. 167,144; Apr. 24; Serial No. 156,516; published Feb. 6, 1923.
Beverages. Erbo Company. 167,095; Apr. 24; Serial No. 167,007; published Jan. 9, 1923.
Black Diamond Paint & Varnish Works, Cincinnati, Ohio. Ready-mixed paints, varnishes, stains, lacquers, etc. 167,332; Apr. 24.
Blanke-Baer Extract & Preserving Company, St. Louis, Mo. Jelly, apple butter, and fruit preserves. 167,111; Apr. 24; Serial No. 163,316; published Jan. 30, 1923.
Bonnie-B Company, Inc., The, New York, N. Y. Powder puffs. 167,164; Apr. 24; Serial No. 171,249; published Feb. 6, 1923.
Boonville Mills Company, Boonville, Mo. Wheat flour. 167,184; Apr. 24; Serial No. 162,911; published Dec. 12, 1922.
Bradley & Vrooman Company, Chicago, Ill. Ready-mixed paints. 167,327; Apr. 24.
Brown, Earle D., doing business as The Everam Co., South Bend, Ind. Baked confections. 167,196–7; Apr. 24; Serial No. 162,473–4; published Jan. 30, 1923.
Browne, Mayotta, San Francisco, Calif. Dolls. 167,167; Apr. 24; Serial No. 171,610; published Jan. 30, 1923.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Game-table cushions. 167,160–1; Apr. 24; Serial No. 172,078–9; published Jan. 30, 1923.

Burley Flour Mills, The. (See Colorado Milling & Elevator Co.)
Burnham, E., Inc., Chicago, Ill. Preparation for the hair. 167,319; Apr. 24.
Bush, W. J., & Co. Inc., New York, N. Y. Toilet water. 167,202–3; Apr. 24.
Cabinet Milling Co. (See Sanders, Edw. G.)
California Cotton Oil Company, Los Angeles, Calif. Cottonseed cake and meal, salad and pay oils. 167,068; Apr. 24; Serial No. 158,293; published Nov. 7, 1922.
Cincinnati Game Company, The, assignor to The United States Playing Card Company, Cincinnati, Ohio. Card games. 167,308; Apr. 24.
Citrus Products Company, Chicago, Ill. Beverages and sirups and concentrates for making same. 167,082; Apr. 24; Serial No. 154,483; published Aug. 22, 1922.
Citrus Products Company, Chicago, Ill. Beverages sold as soft drinks and compounds and concentrates for manufacturing the same. 167,099; Apr. 24; Serial No. 167,555; published Jan. 30, 1923.
Colonial Butter & Egg Co., Inc., New York, N. Y. Fresh eggs. 167,268; Apr. 24; Serial No. 152,606; published Dec. 19, 1922.
Colorado Milling & Elevator Co., The, Denver, Colo., also doing business as The Burley Flour Mills, Burley, Idaho. Wheat flour. 167,200; Apr. 24; Serial No. 162,609; published Dec. 12, 1922.
Colorado Milling & Elevator Co., The, doing business as The Monte Vista Flour Mills, Denver, and Monte Vista, Colo. Wheat flour. 167,267; Apr. 24; Serial No. 152,784; published Dec. 26, 1922.
Columbia Tire & Rubber Company, The, Mansfield, Ohio. Inner tubes for pneumatic tires, cord tires, and fabric tires. 167,142; Apr. 24; Serial No. 156,776; published Mar. 14, 1922.
Concrete Machinery & Supply Co., Los Angeles, Calif. Concrete-mixing machines and brickmaking machines. 167,273; Apr. 24; Serial No. 152,066; published Jan. 16. 1923,
Cook, Charles K., Company, Camden, N. J. Leather goods. 167,336; Apr. 24.
Copps Co., The, Stevens Point, Wis. Canned vegetables, peanut butter, corn meal, etc. 167,092; Apr. 24; Serial No. 165,916; published Jan. 30, 1923.
Corkran, Hill & Co. Inc., Baltimore, Md. Hams and bacon. 167,061; Apr. 24; Serial No. 160,235; published Dec. 26, 1922.
Coston, Edward C., Skidmore, Mo. Machines for forcing gears or other articles from shafts and cylinder-boring machines. 167,276; Apr. 24; Serial No. 150,800; published Jan. 30, 1923.
Court, R. G., Co. Inc., Covington, Ky. Beverage sold as soft drink. 167,013; Apr. 24; Serial No. 162,666; published Aug. 29, 1922.
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf clubs and balls. 167,065; Apr. 24; Serial No. 159,558; published Jan. 9, 1923.
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf balls. 167,168; Apr. 24; Serial No. 171,617; published Jan. 30, 1923.
Dean, Wm. G., & Son, New York, N. Y. Baking powder. 167,284; Apr. 24.
Delrose Laboratories, Carbondale, Pa. Preparation for preventing perspiration and odor. 167,232; Apr. 24; Serial No. 164,403; published Oct. 24, 1922.
Dessart Brothers, Inc., Brooklyn, N. Y. False faces, toy mustaches, and beards, toy wigs, etc. 167,306; Apr. 24.
Diamond Star Products Co. (See Katz, Sigmund.)
Didisheim, Hipp., Company, Inc., New York, N. Y. Watches, watch movements, and parts of the same. 167,335; Apr. 24.
Dobbie McInnes & Clyde, Ltd., Glasgow, Scotland. Liquid-measuring and level-indicating apparatus. 167,224; Apr. 24; Serial No. 157,413; published Jan. 30, 1923.
Dorman, Nathan, New York, N. Y. Cheese. 167,209; Apr. 24; Serial No. 165,126; published Jan. 30, 1923.
Drew, E. F., & Co., Inc., New York, N. Y. Nut margarine. 167,215; Apr. 24; Serial No. 163,619; published Dec. 19, 1922.
Dunlop Milling Co., Clarksville, Tenn. Wheat flour. 167,062; Apr. 24; Serial No. 160,051; published Dec. 26, 1922.
Dura Film Protector Co., Inc., New York, N. Y. Motion-picture films, photographic transparencies, raw films, and photographic supplies, etc. 167,253; Apr. 24; Serial No. 170,477; published Feb. 6, 1923.
Durand & Winfield, Glendale, Calif. Carburetors. 167,294; Apr. 24.
E. A. Clark & Company, Portland, Me. Wheat flour. 167,281; Apr. 24; Serial No. 135,038; published Dec. 26, 1922.

Eastman Kodak Company, Rochester, N. Y. Sensitized film. 167,271; Apr. 24; Serial No. 152,122; published Aug. 1, 1922.
Edtbauer, E., & Co., Chicago, Ill. Weighing machines. 167,150; Apr. 24; Serial No. 144,669; published Jan. 30, 1923.
Empire Fire-Proof Door Co., Inc., New York, N. Y. Metal-covered doors and windows. 167,056; Apr. 24; Serial No. 160,756; published Nov. 7, 1922.
Ensley, Harry M., Oakland, Calif. Powder for insect exterminator. 167,285; Apr. 24.
Erbo Company, The, Pittsburgh, Pa. Beverages. 167,095; Apr. 24; Serial No. 167,007; published Jan. 9, 1923.
Esleeck Manufacturing Co., Turners Falls, Mass. Manifold paper. 167,309; Apr. 24.
Etablissements Continsouza, Société Anonyme, Paris, France. Cinematographic projectors and cameras, plates for fixed projections, etc. 167,280; Apr. 24; Serial No. 142,754; published Jan. 30, 1923.
Everam Co. (See Brown, Earle D.)
Fair, The, Chicago, Ill. Children's toy wagons. 167,034; Apr. 24; Serial No. 170,973; published Feb. 6, 1923.
Fair, William B., Habana, Cuba. Chocolate, cocoas, bonbons, caramels, crackers, butter, hams, etc. 167,264; Apr. 24; Serial No. 154,080; published Jan. 30, 1923.
Fairmont Creamery Co., The, Omaha, Nebr. Eggs. 167,024; Apr. 24; Serial No. 161,983; published Dec. 12, 1922.
Federal Manufacturing Co., The, Columbus, Ohio. Brass fittings for gas brackets and cocks, T's, elbows, and gas-range cocks. 167,250; Apr. 24; Serial No. 170,681; published Feb. 6, 1923.
Federal Mill & Elevator Co., Inc., Lockport, N. Y. Wheat flour. 167,029; Apr. 24; Serial No. 161,680; published Dec. 12, 1922.
Feldt Manufacturing Company, Inc., Jamestown, N. Y. Ash trays, match-box holders. 167,166; Apr. 24; Serial No. 171,532; published Jan. 30, 1923.
Fireside Yarns Company, Philadelphia, Pa. Yarn. 167,050; Apr. 24; Serial No. 161,676; published Feb. 6, 1923.
Fleming, J. A., doing business as Atlanta Bottling Works, Atlanta, Ga. Beverage sold as a soft drink and syrup for making same. 167,107; Apr. 24; Serial No. 169,673; published Jan. 30, 1923.
Fox River Paper Company, Appleton, Wis. Writing paper. 167,152; Apr. 24; Serial No. 172,418; published Feb. 6, 1923.
Foxboro Company, The, Foxboro, Mass. Measuring and scientific appliances. 167,287; Apr. 24.
Franklin Williams, Inc., of N. J., Newark, N. J. Striker plates and locks. 167,279; Apr. 24; Serial No. 143,524; published Jan. 30, 1923.
Fredericks, Charles, Brooklyn, N. Y. Fishing hooks and leaders. 167,165; Apr. 24; Serial No. 171,492; published Jan. 23, 1923.
G. F. H. Corporation, The, Denver, Colo. Gas, gasoline, oil, and steam tractors. 167,266; Apr. 24; Serial No. 152,919; published Feb. 6, 1923.
Garza, Pablo G., doing business as Grain Export Co., San Antonio, Tex. Corn flour. 167,210; Apr. 24; Serial No. 165,078; published Jan. 30, 1923.
General Baking Company, New York, N. Y. Bread. 167,085; Apr. 24; Serial Nos. 152,465–6; published Dec. 19, 1922.
General Baking Company, New York, N. Y. Bread. 167,270; Apr. 24; Serial No. 152,466; published Dec. 19, 1922.
General Baking Company, New York, N. Y. Bread. 167,275; Apr. 24; Serial No. 151,266; Dec. 26, 1922.
General Radio Company, Cambridge, Mass. Amplifiers, direct and alternating current; sockets, rheostats, etc. 167,334; Apr. 24.
Gerber & Co., Ltd., Thoune, Switzerland. Cheese. 167,133; Apr. 24; Serial No. 158,388; published Jan. 30, 1923.
Gibson, Geo. R., Co., New York, N. Y. Bath and tooth brushes. 167,115; Apr. 24; Serial No. 163,978; published Feb. 6, 1923.
Globe Grain & Milling Co., Los Angeles, Calif. Wheat flour. 167,124–5; Apr. 24; Serial No. 165,369–70; published Dec. 12, 1922.
Golden Grain Juice Co., Minneapolis, Minn. Dry compound for making a nonalcoholic, maltless beverage. 167,106; Apr. 24; Serial No. 169,588; published Jan. 9, 1923.
Golden Grain Milling Company, East St. Louis, Ill. Mixed horse and mule feed. 167,238; Apr. 24; Serial No. 159,462; published Jan. 30, 1923.
Golding Fabrics Corporation, New York, N. Y. Silk piece goods. 167,044; Apr. 24; Serial No. 170,376; published Jan. 30, 1923.
Goldman, Sigmund L., doing business as Red Sun Products Co., Chicago, Ill. Sirups for use in making nonalcoholic beverages. 167,169; Apr. 24; Serial No. 171,635; published Jan. 30, 1923.
Goldsmith, P., Sons Company, The, Cincinnati, Ohio. Footballs, basketballs, baseballs, bats, gloves, etc. 167,104; Apr. 24; Serial No. 169,478; published Jan. 9, 1923.
Goldsmith's Music Store Co., The, Columbus, Ohio. Pianos, violins, guitars, banjos, and talking machines. 167,326; Apr. 24.
Goldsmith's Music Store Co., The, Columbus, Ohio. Pianos, violins, guitars, banjos, and talking machines. 167,328; Apr. 24.
Good-Grape Company, Chattanooga, Tenn. Carbonated grape drink. 167,019; Apr. 24; Serial No. 162,168; published Jan. 16, 1923.
Goodale Dairy Co. (See Goodale, Robert W.)
Goodale Ice Cream Co. (See Goodale, Robert W.)
Goodale, Robert W., doing business as Goodale Dairy Co., Goodale Ice Cream Co., and Howdy Bottling Works, Centralia, Ill. Beverage made from milk, cocoa, sugar, malted milk, and flavor, and sold as a soft drink, and a sirup for making same. 167,162; Apr. 24; Serial No. 171,214; published Feb. 6, 1923.
Goodrich Drug Company, Anoka, Minn. Liniment for external use for rheumatism, sore throat, colds, etc. 167,228; Apr. 24; Serial No. 169,633; published Feb. 13, 1923.
Gordon-Pagel Company, Detroit, Mich. Bread. 167,265; Apr. 25; Serial No. 153,506; published Feb. 6, 1923.
Graham Co. Inc, The, New York, N. Y. Mixed nuts. 167,333; Apr. 24.
Grain Export Co. (See Garza Pablo G.)
Green & Company, Chicago, Ill. Butter and eggs. 167,119; Apr. 24; Serial No. 164,900; published Dec. 19, 1922.
Grossman, Joseph, doing business as Kasdum Flour Company, Steubenville, Ohio. Winter-wheat flour. 167,230; Apr. 24; Serial No. 159,356; published Feb. 6, 1923.
Gustenhoven, Anton, New York, N. Y. Hard candies. 167,301; Apr. 24.
Hamilton, William H., doing business as Pactwell Food Products Co., Baltimore, Md. Canned tomatoes. 167,282; Apr. 24; Serial No. 134,364; published Jan. 23, 1923.
Heller, B., & Company, Chicago, Ill. Cleaner for windows, glass, cut glass, and skylights. 167,297; Apr. 24.
Heller, B., & Company, Chicago, Ill. Enamel cleaner. 167,298; Apr. 24.
Helvetia Milk Condensing Company, St. Louis, Mo. Condensed milk. 167,303; Apr. 24.
Hogland, Joseph L., doing business as Victor Products Co., Kansas City, Mo. Dressing and cleaner for pantasote leather, and rubber. 167,286; Apr. 24.
Holland O'Neil Milling Co., Mount Vernon, Mo. Wheat flour. 167,140; Apr. 24; Serial No. 156,899; published Dec. 26, 1922.
Howdy Bottling Works. (See Goodale, Robert W.)
Hugo, John, Manufacturing Company, The, New Haven, Conn. Toy banks. 167,114; Apr. 24; Serial No. 163,519; published Jan. 30, 1923.
Hyman, Henry, & Co. Inc., New York, N. Y. Dials for electrical instruments and appliances. 167,254; Apr. 24; Serial No. 169,855; published Feb. 6, 1923.
Ideal Clamp Mfg. Co. Inc., Brooklyn, N. Y. Hose clamps and parts thereof. 167,247; Apr. 24; Serial No. 171,322; published Jan. 30, 1923.
Independent Salt Co., New York, N. Y. Salt. 167,318; Apr. 24.
Index-Ray Mount Co. (See Kulik, Irving.)
Industrial Service Company, Lincoln, N. J. Automobile-actuated transmission appliance. 167,222; Apr. 24; Serial No. 156,833; published Feb. 6, 1923.
Inland Crystal Salt Company of Utah, Salt Lake City, Utah. Table salt. 167,321; Apr. 24.
Irwin Auger Bit Company, The, Wilmington, Ohio. Bits and augers. 167,244; Apr. 24; Serial No. 171,801; published Jan. 30, 1923.
Ismert-Hincke Milling Company, The, Kansas City, Kans. Wheat flour. 167,146; Apr. 24; Serial No. 156,161; published Jan. 30, 1923.
Iten Biscuit Co., Omaha, Nebr. Sugar wafers. 167,012; Apr. 24; Serial No. 162,740; published Jan. 30, 1923.
Jack Beverage Company, New York, N. Y. Beverages sold as soft drinks and sirups for making the same. 167,074; Apr. 24; Serial No. 172,107; published Feb. 6, 1923.
Jackson & Finkenaur, New York, N. Y. Radio receiving sets. 167,252; Apr. 24; Serial No. 170,529; published Jan. 30, 1923.
Jackson, John W., Mercer, Pa. Oil containers. 167,337; Apr. 24.
Johnson, Cowdin & Co., Inc., assignor to Johnson-Cowdin-Emmerich, Inc., New York, N. Y. Ribbons in the piece. 167,075; Apr. 24; Serial No. 156,834; published Jan. 30, 1923.
Johnson-Cowdin-Emmerich, Inc. (See Johnson, Cowdin & Co., assignor.)
Jones, R. E., Company, Wabasha, Minn. Scratch, calf, dairy, horse, and hog feeds. 167,277; Apr. 24; Serial No. 150,361; published Dec. 26, 1922.
Junglegym, Inc., Chicago, Ill. Playground apparatus, in particular climbing frames. 167,081; Apr. 24; Serial No. 155,408; published Jan. 30, 1923.
Kasdum Flour Company. (See Grossman, Joseph.)
Katz, Sigmund, doing business as Diamond Star Products Co., New York, N. Y. Pure malt extracts. 167,179; Apr. 24; Serial No. 172,048; published Jan. 30, 1923.
Katzinger, Edward, Company, Chicago, Ill. Baking pans. 167,242; Apr. 24; Serial No. 173,192; published Feb. 6, 1923.
Katzinger, Edward, Company, Chicago, Ill. Baking pans. 167,245–6; Apr. 24; Serial No. 171,577–8; published Feb. 6, 1923.

Kehlor Flour Mills Co., St. Louis, Mo. Breakfast cereal. 167,120; Apr. 24; Serial No. 164,922; published Dec. 19, 1922.
Keller, George E., Laboratories, Huxley, Iowa. Flour made of cornstarch, carbonate of magnesia, vitamines, and wheat flour. 167,076; Apr. 24; Serial No. 156,495; published Feb. 6, 1923.
Keydel Co., The. (See Keydel, Oscar F.)
Keydel, Oscar F., doing business as The Keydel Co., Detroit, Mich. Window wipers. 167,058; Apr. 24; Serial No. 160,612; published Feb. 6, 1923.
Keystone Flour Company, Clearfield, Pa. Wheat flour. 167,219; Apr. 24; Serial No. 163,336; published Jan. 30, 1923.
Keystone Varnish Company, Brooklyn, N. Y. Preparation to be used in the manufacture of floor paints, enamels, etc. 167,338; Apr. 24.
King, Frank O., Chicago, Ill. Dolls. 167,153; Apr. 24; Serial No. 172,598; published Jan. 30, 1923.
King, William H., jr., East Orange, N. J., and New York, N. Y. Typewriter paper. 167,059; Apr. 24; Serial No. 160,496; published Nov. 14, 1922.
Kinney-Rome Company, Chicago, Ill. Bed springs. 167,302; Apr. 24.
Knoxall Novelties, Inc., New York, N. Y. Play balls and beach balls. 167,109; Apr. 24; Serial No. 169,857; published Feb. 6, 1923.
Konroe Merchants. (See Robert, Samuel.)
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese. 167,054; Apr. 24; Serial No. 160,814; published Jan. 30, 1923.
Krumm & McDonald Co. (See McDonald, William J.)
Kulik, Irving, doing business as Index-Ray Mount Co., Brooklyn, N. Y. Mounts for photographic negatives. 167,031; Apr. 24; Serial No. 170,143; published Jan. 16, 1923.
La Dez Cigar Co., Denver, Colo. Cigars. 167,178; Apr. 24; Serial No. 172,023; published Jan. 9, 1923.
Lassen, Frank U., Los Angeles, Calif. Health wafers. 167,269; Apr. 24; Serial No. 152,510; published Dec. 26, 1922.
Laurel Ice & Packing Co., Laurel, Miss. Butter. 167,207; Apr. 24; Serial No. 165,295; published Dec. 12, 1922.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Scratch feed. 167,193; Apr. 24; Serial No. 162,423; published Dec. 12, 1922.
Leonard, H. L., Rod Co., The, New York, N. Y. Fishing rods and reels. 167,070; Apr. 24; Serial No. 172,336; published Feb. 6, 1923.
Lindstrom, Victoria C., doing business as Potor Coffee Co., New York, N. Y. Coffees and teas. 167,069; Apr. 24; Serial No. 158,050; published Feb. 6, 1922.
Lineaweaver and Swift, St. Louis, Mo. Map-measuring instrument. 167,218; Apr. 24; Serial No. 158,781; published Dec. 5, 1922.
Loeb, Ben S., New York, N. Y. Sadirons. 167,325; Apr. 24.
Long, S. S., & Bro. Inc., New York, N. Y. Butter, fresh eggs, and cheese. 167,188; Apr. 24; Serial No. 157,932; published Jan. 23, 1923.
M. Valle y Ca., Inc., New York, N. Y. Cigars. 167,096; Apr. 24; Serial No. 167,032; published Jan. 9, 1923.
McCall, John O., Buffalo, N. Y. Toothbrushes. 167,172; Apr. 24; Serial No. 171,810; published Jan. 9, 1923.
McDonald, William J., doing business as Krumm & McDonald Co., Columbus, Ohio. Wheat flour. 167,018; Apr. 24; Serial No. 162,191; published Jan. 30, 1923.
Magi-Graph Co., The, New York, N. Y. Toys. 167,033; Apr. 24; Serial No. 171,092; published Jan. 16, 1923.
Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. 167,086; Apr. 24; Serial No. 151,633; published Oct. 11, 1921.
Manhasset Manufacturing Company, Providence, R. I. Cotton thread and yarn. 167,038; Apr. 24; Serial No. 170,880; published Jan. 30, 1923.
Manhattan Electrical Supply Co. Inc., New York, N. Y. Electrical apparatus, machines, and supplies. 167,102; Apr. 24; Serial No. 169,134; published Feb. 13, 1923.
Manischewitz, B., Company, The, Cincinnati, Ohio. Matzos. 167,289; Apr. 24.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 167,329–30; Apr. 24.
Mapele Silk Manufacturing Co. Inc., Paterson, N. J., and New York, N. Y. Ribbons of silk and artificial silk. 167,093; Apr. 24; Serial No. 166,781; published Jan. 30, 1923.
Maple Products Co., Brooklyn, N. Y. Candy. 167,014; Apr. 24; Serial No. 162,498; published Jan. 30, 1923.
Marshall Canning Company, Marshalltown, Iowa. Canned foods. 167,126–7; Apr. 24; Serial Nos. 165,397–8; published Dec. 12, 1922.
Marshall, Edward E., doing business as Huntingdon Manufacturing Company, Philadelphia, Pa. Golf Balls. 167,039–40; Apr. 24; Serial Nos. 170,883–4; published Jan. 9, 1923.
Marshall Field & Company, Chicago, Ill. Sachet and face powder, vanishing cream, cold cream, rouge, etc. 167,227; Apr. 24; Serial No. 169,641; published Feb. 6, 1923.
Martin, Charles F., Fairmont, W. Va. Maltless beverage sold as a soft drink. 167,116; Apr. 24; Serial No. 164,254; published July 25, 1922.
Marty, Carl, and Company, Chicago, Ill. Cheese. 167,194; Apr. 24; Serial No. 162,432; published Jan. 30, 1923.
Matthael Baking Co., Tacoma, Wash. Bakery products—viz, cookies. 167,023; Apr. 24; Serial No. 162,031; published Dec. 12, 1922.
Matthews Selected Dairies Company, The, Cincinnati, Ohio. Fresh milk. 167,237; Apr. 24; Serial No. 159,603; published Dec. 26, 1922.
Merchants Supply Company, Beatrice, Nebr. Feed for chickens. 167,211; Apr. 24; Serial No. 165,088; published Dec. 19, 1922.
Merolla, Ricciardi and Salomone Corporation, New York, N. Y. Spaghetti, cheese, and sauce. 167,182; Apr. 24; Serial No. 162,842; published Jan. 30, 1923.
Merrick Scale Mfg. Company, Passaic, N. J. Automatic and continuous weighing apparatus, recording mechanism for weighing mechanism, etc. 167,234; Apr. 24; Serial No. 162,168; published Jan. 30, 1923.
Messinger Paper Company, Chicago, Ill. Toilet, wrapping, book, and printing paper. 167,156; Apr. 24; Serial No. 172,098; published Feb. 6, 1923.
Messinger Paper Company, Chicago, Ill. Toilet, wrapping, book, and printing paper. 167,157; Apr. 24; Serial No. 173,000; published Feb. 6, 1923.
Metallic Industries, Inc., St. Louis, Mo. Toys constructed of metal and wood. 167,011; Apr. 24; Serial No. 162,757; published Jan. 30, 1923.
Midland Flour Milling Co., The, Kansas City, Mo. Wheat flour. 167,201; Apr. 24; Serial No. 162,639; published Dec. 12, 1922.
Midland Flour Milling Co., The, Kansas City, Mo. Wheat flour. 167,202; Apr. 24; Serial No. 162,654; published Dec. 12, 1922.
Milton Dairy Company, St. Paul, Minn. Butter. 167,028; Apr. 24; Serial No. 161,691; published Jan. 30, 1923.
Mizell, Murrey & Co., Nashville, Tenn. Canned fruits, vegetables, salted peanuts, and rolled oats. 167,272; Apr. 24; Serial No. 152,033; published Dec. 19, 1922.
Modern Flour Mills, Macon, Ga. Stock feed, more specifically wheat feed. 167,022; Apr. 24; Serial No. 162,128; published Dec. 12, 1922.
Monte Vista Flour Mills, The. (See Colorado Milling & Elevator Co.)
Morris & Company, Chicago, Ill. Oleomargarine. 167,112–13; Apr. 24; Serial Nos. 163,346–7; published Dec. 19, 1922.
Morrow Milling Company, Carthage, Mo. Wheat flour. 167,083; Apr. 24; Serial No. 154,456; published Jan. 30, 1923.
Mother's Favorite Cookie Company, Seattle, Wash. Cookies and macaroons. 167,241; Apr. 24; Serial No. 159,322; published Jan. 30, 1923.
Murray Company, The, Dallas, Tex. Cotton gins, elevators, presses, distributors, etc. 167,288; Apr. 24.
Musante, G., Calistoga, Calif. Mineral water. 167,307; Apr. 24.
Mutual Chemical Co. of America, New York, N. Y. Chemicals such as bichromate of potash and bichromate of soda. 167,233; Apr. 24; Serial No. 163,939; published Oct. 17, 1922.
N. V. Koninklijke Pellerij "Mercurius" voorheen Gebroeders Laan, Wormer, Netherlands. Barley, pot barley, pearl barley, oats, and rolled oats, etc. 167,132; Apr. 24; Serial No. 158,396; published Dec. 26, 1922.
Nash Coffee Company, Minneapolis, Minn. Coffee. 167,097; Apr. 24; Serial No. 167,188; published Jan. 23, 1923.
National Ring Traveler Co., Providence, R. I. Ring and twister travelers. 167,249; Apr. 24; Serial No. 170,779; published Jan. 30, 1923.
Naughtin, T. F., Co. (See Naughtin, Thomas F.)
Naughtin, Thomas F., doing business as T. F. Naughtin Co., Omaha, Nebr. Bakers' and confectioners' supplies. 167,010; Apr. 24; Serial No. 162,762; published Jan. 30, 1923.
Neuner, Martin C., Los Angeles, Calif. Game. 167,089; Apr. 24; Serial No. 142,162; published Jan. 9, 1923.
New York Blue Print Paper Company, New York, N. Y. Sensitized blue-print paper. 167,248; Apr. 24; Serial No. 171,182; published Feb. 6, 1923.
Newman, Christopher F., Springfield, Mass. Butter, cheese, and eggs. 167,055; Apr. 24; Serial No. 160,772; published Dec. 26, 1923.
Nitro Pencil Company, Nitro, W. Va. Lead for pencils. 167,155; Apr. 24; Serial No. 172,897; published Feb. 6, 1923.
Noiboff, Harry, New Haven, Conn. Cigars. 167,170; Apr. 24; Serial No. 171,652; published Feb. 6, 1923.
Onward Manufacturing Company, Menasha, Wis. Furniture sliding shoes, being either a glass or hard-metal base with a metal stem. 167,262; Apr. 24; Serial No. 167,144; published Feb. 6, 1923.
Osborn Manufacturing Company, The, Cleveland, Ohio. Brushes for household use. 167,175; Apr. 24; Serial No. 172,010; published Jan. 9, 1923.
Pacific Coast Biscuit Company, Seattle, Wash. Crackers. 167,128; Apr. 24; Serial No. 165,409; published Dec. 12, 1922.
Pactwell Food Products Co. (See Hamilton, William H.)
Palmer, William T., & Company, Inc., New York, N. Y. Toothbrushes. 167,032; Apr. 24; Serial No. 171,183; published Jan. 9, 1923.
Paulero, Alfonso M., Baltimore, Md. Malt and hops compound for beverage purposes. 167,173; Apr. 24; Serial No. 171,948; published Jan. 30, 1923.

Peggy's Health Food Company, Butte, Mont. Cereal. 167,213; Apr. 24; Serial No. 164,829; published Jan. 30, 1923.

Pennsylvania Wire Glass Company, Philadelphia, Pa. Sheet glass. 167,043; Apr. 24; Serial No. 170,596; published Jan. 30, 1923.

Perkins, B. F., & Son, Inc., Holyoke, Mass. Cloth pilers, exhaust fans, rag cutters, paper and textile finishing machinery. 167,299; Apr. 24.

Perkins Products Co., Hastings, Nebr. Toilet and medicinal preparations. 167,231; Apr. 24; Serial No. 165,411; published Jan. 30, 1923.

Perkins, Robert F., Framingham Center, Mass. Fresh apples, fresh potatoes, fresh cream, cattle. 167,057; Apr. 24; Serial No. 160,721; published Jan. 30, 1923.

Perry, Desjardins & Temple Co., assignor to The Skylark Radio Company, Cincinnati, Ohio. Radio receiving sets and antennæ and parts thereof, head phones, etc. 167,259; Apr. 24; Serial No. 168,000; published Jan. 23, 1923.

Perry, Desjardins & Temple Co., The, assignor to The Skylark Radio Company, Cincinnati, Ohio. Radio receiving sets, parts thereof, antennæ and parts thereof, head phones, etc. 167,260; Apr. 24; Serial No. 167,999; published Feb. 6, 1923.

Perry, J. C., & Company, Indianapolis, Ind. Canned vegetables, fruits, and fish, sweet pickles, olives, rolled oats. 167,078; Apr. 24; Serial No. 156,401; published Dec. 26, 1922.

Peters, M. C., Mill Co., Omaha, Nebr. Stock and poultry feed. 167,278; Apr. 24; Serial No. 149,929; published Jan. 30, 1923.

Phospho Food Co., Inc., Los Angeles, Calif. Breakfast cereal. 167,121; Apr. 24; Serial No. 164,950; published Jan. 2, 1923.

Pillsbury Flour Mills Company, Minneapolis, Minn. Mixed feed. 167,310; Apr. 24.

Pineberry Punch Syrup Co. (See Wolf, Lewis.)

Poage-Wall Milling Co., Catlettsburg, Ky. Wheat flour. 167,131. Apr. 24; Serial No. 157,772; published Dec. 19, 1922.

Podesta Import Company, San Francisco, Calif. Mushroom sauce, olive oil, dry mushrooms, concentrated paste, etc. 167,084; Apr. 24; Serial No. 152,586; published Dec. 26, 1922.

Poland Paper Company, Mechanic Falls, Me. Bond, ledger, and writing paper. 167,154; Apr. 24; Serial No. 172,651; published Feb. 6, 1923.

Polatsik, William, New York, N. Y. Soap. 167,283; Apr. 24.

Pool, William W., Dallas, Tex. Cotton mattresses. 167,315; Apr. 24.

Porter Electric Carburetter, Inc., New York, N. Y. Liquid-level indicators. 167,226; Apr. 24; Serial No. 169,777; published Jan. 30, 1923.

Postel, Ph. H., Milling Co., Mascoutah, Ill. Self-rising wheat flour. 167,020; Apr. 24; Serial No. 162,134; published Dec. 12, 1922.

Potor Coffee Co. (See Lindstrom, Victoria C.)

Poultry, Producers of Southern California, Inc., Los Angeles, Calif. Fresh eggs. 167,130; Apr. 24; Serial No. 158,723; published Nov. 7, 1922.

Pratt Food Co., Philadelphia, Pa. Foods for horses, mules, cattle, calves, ducks, birds, etc. 167,145; Apr. 24; Serial No. 156,339; published Dec. 19, 1922.

Premier Malt Products Company of Ohio, Inc., Chicago, Ill., and Steubenville, Ohio. Nonalcoholic, maltless, fruit-flavored concentrate for beverage purposes. 167,048; Apr. 24; Serial No. 170,213; published Jan. 30, 1923.

Price Food Products Corporation, Minneapolis, Minn. Corn flakes. 167,122; Apr. 24; Serial No. 164,951; published Dec. 19, 1922.

Priestleys, Limited, Bradford, England. Cloths and piece goods of wool, worsted, and hair, and combinations of same. 167,103; Apr. 24; Serial No. 169,422; published Feb. 6, 1923.

Puritan Gelatin Company, Boston and Marblehead, Mass. Gelatin. 167,077; Apr. 24; Serial No. 156,403; published Jan. 30, 1923.

Purity Creamery Co., Baltimore, Md. Butter. 167,199; Apr. 24; Serial No. 162,568; published Dec. 12, 1922.

Queensbury Farms, Toms River, N. J. Eggs, young chicks, live and dressed poultry, pullets, etc. 167,236; Apr. 24; Serial No. 159,615; published Jan. 30, 1923.

Quisenberry Feed Mfg. Co., Kansas City, Mo. Poultry feed. 167,189–91; Apr. 24; Serial Nos. 158,143–5; published Jan. 2, 1923.

R. & G. Co., Attleboro, Mass. Magazine pencils. 167,079; Apr. 24; Serial No. 155,830; published Feb. 6, 1923.

Radiogem Corporation, New York, N. Y. Radio tuning coil. 167,256; Apr. 24; Serial No. 169,184; published Jan. 30, 1923.

Rae-Tol Company. (See Ryan, Maurice J.)

Red Sun Products Co. (See Goldman, Sigmund L.)

Robert, Samuel, doing business as Konroe Merchants, New York, N. Y. Dolls. 167,161; Apr. 24; Serial No. 173,244; published Feb. 6, 1923.

Robinson Silk Company Inc., Astoria and New York, N. Y. Silk piece goods. 167,046–7; Apr. 24; Serial Nos. 170,310–11; published Jan. 30, 1923.

Roessler & Hasslacher Chemical Co., The, New York, N. Y. Nonferrous alloy containing various proportions of nickel. 167,206; Apr. 24; Serial No. 167,013; published Feb. 6, 1923.

Rosenwald-Milius Co., Inc., New York, N. Y. Parlor board game. 167,035; Apr. 24; Serial No. 170,955; published Jan. 16, 1923.

Russell Playing Card Co., Milltown, N. J. Playing cards. 167,072; Apr. 24; Serial No. 172,176; published Jan. 30, 1923.

Ryan, Maurice J., doing business as The Rae-Tol Company, Oakland, Calif. Tablets for the relief of headache, neuralgia, grippe, etc. 167,229; Apr. 24; Serial No. 168,071; published Jan. 23, 1923.

S. & S. Melloroll Company, Scranton, Pa. Crullers. 167,021; Apr. 24; Serial No. 162,133; published Dec. 12, 1922.

San-it Rubber Company. (See Usdin, Hyman.)

Sanders, Edw. G., doing business as Cabinet Milling Co., Nashville, Tenn. Wheat flour. 167,063; Apr. 24; Serial No. 160,034; published Dec. 19, 1922.

Scheller Catering Company, St. Louis, Mo. Bread. 167,183; Apr. 24; Serial No. 162,856; published Dec. 12, 1922.

Schmick Gear & Screw Company, Williamsport, Pa. Lifting jacks and screw jacks. 167,251; Apr. 24; Serial No. 170,672; published Jan. 30, 1923.

Schmidt, Robert W., Chicago, Ill. Jewelry articles. 167,323; Apr. 24.

Schulte, D. A., Inc., New York, N. Y. Holders for cigars and cigarettes and mouthpieces for pipes. 167,151; Apr. 24; Serial No. 172,358; published Jan. 30, 1923.

Sears, Roebuck and Co., Chicago, Ill. Tooth paste. 167,305; Apr. 24.

Selenkow, Jacob K., Brooklyn, N. Y. Hobbyhorses, children's automobiles, aeroplane toys. 167,080; Apr. 24; Serial No. 156,031; published Feb. 6, 1923.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry and eggs. 169,137; Apr. 24; Serial No. 156,929; published Jan. 23, 1923.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry and eggs. 167,138; Apr. 24; Serial No. 156,927; published Jan. 23, 1923.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry. 167,139; Apr. 24; Serial No. 156,926; published Jan. 23, 1923.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry. 167,223; Apr. 24; Serial No. 156,928; published Jan. 23, 1923.

Shakeproof Screw & Nut Lock Company, Chicago, Ill. Nut locks. 167,320; Apr. 24.

Sirup and molasses. Dunbar Molasses & Syrup Co. 167,090; Apr. 24; Serial No. 165,529; published Feb. 6, 1923.

Skylark Radio Company, The. (See Perry, Desjardins & Temple Co., assignor.)

Sloan, Dr. Earl S., Incorporated, Wilmington, Del., and New York, N. Y. Liniments. 167,295; Apr. 24.

South Jersey Farmers Exchange, Woodstown, N. J. Potatoes and dairy feeds. 167,185; Apr. 24; Serial No. 162,960; published Jan. 2, 1923.

Southern Cotton Oil Company, The, Jersey City, N. J.; New York, N. Y.; New Orleans, La.; Savannah, Ga.; and Chicago, Ill. Shortening or fat. 167,017; Apr. 24; Serial No. 162,215; published Jan. 30, 1923.

Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Oil meal. 167,208; Apr. 24; Serial No. 165,138; published Dec. 19, 1922.

Spencer, Lane H., New York, N. Y. Metal tankards and trays of base metal. 167,225; Apr. 24; Serial No. 158,456; published Jan. 30, 1923.

Stafford County Flour Mills Co., Hudson, Kans. Wheat flour. 167,192; Apr. 24; Serial No. 158,156; published Nov. 7, 1922.

Stanard-Tilton Milling Co., St. Louis, Mo. Wheat flour. 167,098; Apr. 24; Serial No. 167,430; published Dec. 12, 1922.

Standard Baking Company, San Francisco, Calif. Coconut macaroon strip. 167,129; Apr. 24; Serial No. 165,420; published Jan. 30, 1923.

Standard Lime & Stone Co., The, Martinsburg, W. Va., and Baltimore, Md. Poultry food. 167,060; Apr. 24; Serial No. 160,305; published Feb. 6, 1923.

Star Bakery Co., Hastings, Mich. Bread. 167,198; Apr. 24; Serial No. 162,513; published Jan. 23, 1923.

Stayshyn Co. (See Wilmot, Julius C.)

Steen, John A., Varnish Company, Chicago, Ill. Rapid-drying varnish binder and varnish. 167,187; Apr. 24; Serial No. 153,371; published Nov. 29, 1922.

Stehli Silks Corporation, New York, N. Y. Broad silks in the piece. 167,108; Apr. 24; Serial No. 169,789; published Jan. 30, 1923.

Stevens & Company Inc., Providence, R. I. Ophthalmic mountings and parts thereof. 167,257; Apr. 24; Serial No. 169,142; published Feb. 6, 1923.

Stevenson, E. A., & Co. Inc., Boonton, N. J. Oleomargarine. 167,025; Apr. 24; Serial No. 161,899; published Dec. 12, 1922.

Stone, F. O., Baking Company, The, Cincinnati, Ohio. Cake. 167,290–1; Apr. 24.

Strohmeier, Frederick E., Ashland, Pa. Curtains, draperies, and an open-mesh netted fabric. 167,101; Apr. 24; Serial No. 169,091; published Feb. 6, 1923.

Stroud-Dockum Grocery Co., Corsicana, Tex. Wheat flour. 167,016; Apr. 24; Serial No. 162,354; published Jan. 30, 1923.

Suhling & Co. Inc., Lynchburg, Va. Leaf tobacco. 167,176–7; Apr. 24; Serial No. 172,019–20; published Jan. 9, 1923.

Susie, Fred, Volga, Iowa. Eggs in their natural state. 167,026; Apr. 24; Serial No. 161,864; published Dec. 12, 1922.

Tawney Ice Cream Company, The, Barberton, Ohio. Frozen confections, ice cream, and ices. 167,066; Apr. 24; Serial No. 159,436; published Jan. 30, 1923.

Tebbetts, The, Misses, Pittsburgh, Pa. Dolls. 167,071; Apr. 24; Serial No. 172,244; published Jan. 30, 1923.

Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 167,214; Apr. 24; Serial No. 163,900; published Jan. 30, 1923.

Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 167,217; Apr. 24; Serial No. 163,900; published Jan. 30, 1923.

Texas Star Flour Mills, Galveston, Tex. Wheat flour. 167,064; Apr. 24; Serial No. 159,896; published Dec. 26, 1922.

Timber Truss Co. of America, New York, N. Y. Ring dowels. 167,220–1; Apr. 24; Serial No. 163,365–6; published Feb. 6, 1923.

Titman Egg Company, Chicago, Ill. Fresh eggs in the shell, mixed whole eggs, egg yolks, and egg whites, being in liquid and frozen form. 167,195; Apr. 24; Serial No. 162,467; published Dec. 12, 1922.

Trico Products Corporation, Buffalo, N. Y. Windshield cleaners. 167,037; Apr. 24; Serial No. 170,909; published Feb. 6, 1923.

Triplett, Jos. I., Woodstock, Va. Self-rising wheat flour. 167,134; Apr. 24; Serial No. 157,455; published Dec. 19, 1922.

Union Biscuit Co., St. Louis, Mo. Sugar wafers. 167,110; Apr. 24; Serial No. 162,785; published Dec. 12, 1922.

United States Playing Card Company, The. (See Cincinnati Game Company, assignor.)

Usdin, Hyman, doing business as San-It Rubber Company, New York, N. Y. Sanitary belts and shields. 167,042; Apr. 24; Serial No. 170,598; published Jan. 9, 1923.

Victor Products Co. (See Hogland, Joseph L.)

Vitreous Steel Products Company, Cleveland, Ohio. Enameled metal table tops. 167,313; Apr. 24.

Vocaltone-Pianotina Co., Chicago, Ill. Phonographs. 167,322; Apr. 24.

Wadley Company, The, Indianapolis and Terre Haute, Ind. Butter. 167,135; Apr. 24; Serial No. 157,243; published Dec. 26, 1922.

Wagner, G. M. H., & Sons, Chicago, Ill. Fresh cantaloupes and pears. 167,117; Apr. 24; Serial No. 164,790; published Feb. 6, 1923.

Wanamaker, John, New York, New York, N. Y. Golf balls. 167,036; Apr. 24; Serial No. 170,915; published Jan. 16, 1923.

Ward Baking Company, New York, N. Y. Yeast, yeast food of mineral salts and flour, malt extract, etc. 167,051; Apr. 24; Serial No. 161,661; published Jan. 30, 1923.

Ward Baking Company, New York, N. Y. Bread, cake, wheat, corn, and rye flour, and yeast. 167,087; Apr. 24; Serial No. 148,637; published Dec. 19, 1922.

Washburn-Crosby Co., Minneapolis, Minn. Wheat flour. 167,143; Apr. 24; Serial No. 156,670; published Dec. 19, 1922.

Washburn-Crosby Co., Minneapolis, Minn. Wheat flour. 167,263; Apr. 24; Serial No. 155,721; published Dec. 19, 1922.

Weaver Manufacturing Company, Springfield, Ill. Garage and shop equipment. 167,317; Apr. 24.

Weber Lifelike Fly Co., The, Stevens Point, Wis. Artificial fishing flies. 167,304; Apr. 24.

West Virginia Pulp & Paper Co., New York, N. Y. English-finish and supercalender book papers. 167,105; Apr. 24; Serial No. 169,570; published Jan. 30, 1923.

Western Dairy Co., Chicago, Ill. Butter. 167,274; Apr. 24; Serial No. 152,052; published Mar. 14, 1922.

Western Dairy Co., Chicago, Ill. Butter cream, fluid or raw sweet milk and cream, whip cream, buttermilk. 167,141; Apr. 24; Serial No. 156,814; published Dec. 26, 1922.

White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. 167,158; Apr. 24; Serial No. 173,115; published Feb. 6, 1923.

White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. 167,159; Apr. 24; Serial No. 173,117; published Feb. 6, 1923.

White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. 167,160; Apr. 24; Serial No. 173,119; published Feb. 6, 1923.

White Cedar Farm, Elwood, N. J. Poultry and eggs. 167,240; Apr. 24; Serial No. 159,333; published Dec. 19, 1922.

White, Luella A., Buffalo, N. Y. Medicinal preparations for nervousness, anæmia, etc. 167,235; Apr. 24; Serial No. 161,215; published Sept. 19, 1922.

White-Stokes Company, Inc., Chicago, Ill. Confection for coating or covering for candy, biscuits, cakes, pastry, etc. 167,027; Apr. 24; Serial No. 161,812; published Jan. 30, 1923.

Wichita Flour Mills Co., The, Wichita, Kans. Wheat flour. 167,203–4; Apr. 24; Serial Nos. 162,654–5; published Jan. 23, 1923.

Wiegand, Charles C., New York, N. Y. Preparations for rejuvenating the hair, preventing the hair falling out, etc. 167,296; Apr. 24.

Williams Food Co., San Francisco, Calif. Pickles, catchup, tomato paste, vinegar, mustard, etc. 167,053; Apr. 24; Serial No. 161,603; published Feb. 6, 1923.

Williams, Percy, Los Angeles, Calif. Photographic enlargement easels. 167,148; Apr. 24; Serial No. 152,973; published Jan. 30, 1923.

Williamson, F. A., Manufacturing Company, Limited, Ottawa, Canada. Washing tablets. 167,311; Apr. 24.

Wilmot, Julius C., doing business as Stayshyn Co., Milton, Mass. Preparation for polishing and cleaning automobiles, pianos, etc. 167,073; Apr. 24; Serial No. 172,139; published Jan. 9, 1923.

Wilson, Thos. E., & Co., Chicago, Ill. Athletic outfits. 167,030; Apr. 24; Serial No. 170,169; published Jan. 30, 1923.

Wilson, Thos. E., & Co., Chicago, Ill. Athletic outfits. 167,049; Apr. 24; Serial No. 170,170; published Jan. 30, 1923.

Wimberley Grocer Co., Jonesboro, Ark. Rolled oats. 167,123; Apr. 24; Serial No. 164,984; published Dec. 19, 1922.

Wimpfheimer, Lloyd A., New York, N. Y. Golf balls. 167,171; Apr. 24; Serial No. 171,776; published Jan. 30, 1923.

Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Electrical condensers. 167,067; Apr. 24; Serial No. 158,693; published May 9, 1922.

Wolf, Fred, doing business as Wolf Milling Co., Ellinwood, Kans. Wheat flour. 167,205; Apr. 24; Serial No. 162,656; published Jan. 30, 1923.

Wolf, Lewis, doing business as Pineberry Punch Syrup Co., Philadelphia, Pa. Beverage sold as a soft drink. 167312; Apr. 24.

Wolf Milling Co. (See Wolf, Fred.)

Wonder Gloss Laboratories, Jasper, Ala. Liquid compound in the nature of a furniture and automobile polish. 167,186; Apr. 24; Serial No. 168,233; published Jan. 9, 1923.

World Match Corporation, New York, N. Y. Book matches. 167,045; Apr. 24; Serial No. 170,321; published Jan. 30, 1923.

Wrigley, Wm. Jr., Company, Chicago, Ill. Sugar-coated chewing gum. 167,091; Apr. 24; Serial No. 165,734; published Feb. 6, 1923.

Yost, A., & Son, Johnstown, Pa. Rye, wheat, and French bread. 167,052; Apr. 24; Serial No. 161,611; published Dec. 26, 1922.

Zincke, Hans, Hoboken, N. J. Pastry, fruit tarts, and fruit pies. 167,212; Apr. 24; Serial No. 164,847; published Jan. 30, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bevis Rock Salt Co., Kansas City, Mo., and Lyons, Kans. Bevis. For Salt. 25,847; Apr. 24.

Bevis Rock Salt Co., Kansas City, Mo., and Lyons, Kans. Rainbow. For Salt. 25,848; Apr. 24.

Cohen, N. B., & Bro., Scranton, Pa. Real Human Hair Net. For Hair Nets. 25,849–50; Apr. 24.

Cohen, N. B., & Bro., Scranton, Pa. Janet Real Human Hair Net. For Hair Nets. 25,851; Apr. 24.

Cohen, N. B., & Bro., Scranton, Pa. Real Human Hair Net. For Hair Nets. 25,852; Apr. 24.

Croft & Allen Company, Philadelphia, Pa. King Tut. For Wrapper for a Candy Confection. 25,853; Apr. 24.

Defiance Grocery Company, Defiance, Ohio. Kro Mor. For Tomatoes. 25,854; Apr. 24.

Dilas, Harry, Bay City, Mich. Nutty Notion Nougat. For Candy. 25,855; Apr. 24.

Hovden, K., Co., Monterey, Calif. Portola. For Sardines. 25,856; Apr. 24.

Hovden, K., Co., Monterey, Calif. Hovden's. For Sardines. 25,857; Apr. 24.

Johnston, Robert A., Co., Milwaukee, Wis. R. S. V. P. For Candy. 25,858; Apr. 24.

Kern, Charles J., doing business as The Kern Toy Co., Buffalo, N. Y. Eleise Toy Furniture 'You Build It' Instructive—Educational—Entertaining. For Sets of Toy Furniture. 25,859; Apr. 24.

Kern Toy Co., The. (See Kern, Charles J.)

Kickbusch, A., Grocery Company, Wausau, Wis. Scottie. For Peas. 25,860; Apr. 24.
Kroeze, Nicholas V., Paterson, N. J. Bromo. For Headache Capsules. 25,861; Apr. 24.
McMorran, C. W., San Francisco, Calif. Inland Chowder. For Chowder Made from Combination of Various Meats and Vegetables. 25,862; Apr. 24.
Nell, Thomas H., Long Beach, Calif. Golden Quinine. For Hair Tonic. 25,863; Apr. 24.
New York Vitreous Enamel Products Corporation, Dover, Del., and Flushing, N. Y. Lemane. For Porcelain and Enamel. 25,864; Apr. 24.
Oppenheim Oberndorf & Co. Inc., Baltimore, Md. King Tut Shirt. For Shirts and Boxes Containing Shirts. 25,865; Apr. 24.
Stern, Max, Charleroi, Pa. Silver Cap. For Cigars. 25,866; Apr. 24.
Weidenhamer, John P., Harrisburg, Pa. Cleen-Made. For Alimentary Paste Products, Such as Macaroni. 25,867; Apr. 24.
Young, W. F., Inc., Springfield, Mass. Absorbine. For Healing Antiseptic Liniment for Cuts, Chafes, and Bruises. 25,868; Apr. 24.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Carleton & Hovey Company, Lowell, Mass. Father John's Medicine No. Drugs. For Father John's Medicine. 6,668; Apr. 24.
Hartmann Trunk Company, Racine, Wis. Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. 6,669–71; Apr. 24.
Hills Bros., San Francisco, Calif. Where the finest coffee flavor comes from. For Coffee. 6,672; Apr. 24.
Tide Water Oil Sales Corporation, New York, N. Y. Veedol 1923. For Oil. 6,673; Apr. 24.
U. S. Oil Company, Providence, R. I. Fulling scouring Perfectol. For Greases for Treating Textile Fabrics. 6,674; Apr. 24.
Volta Co. of America, Inc., Philadelphia, Pa. Volta Powder. For Medicinal Preparation—Namely a Powder for the Treatment of Rheumatism. 6,675; Apr. 24.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abel-Jensen Laboratories, Chicago, Ill. Alkaline salts. 171,884; Apr. 24.
Ad-Pep Printing and Publishing Co. (See International Association of Machinists.)
Adams, Harry E., Haverhill, Mass. Women's sandals of leather and textile material. 176,705–8; Apr. 24.
Agra Company, Detroit, Mich. Perfumes. 174,762; Apr. 24.
Akin Manufacturing Company, Charlotte, N. C. Shoe polish. 174,809; Apr. 24.
Alling & Cory Co., The, Rochester, N. Y. Wrapping paper. 177,158; Apr. 24.
American Banking Machine Corporation, The, Saginaw, Mich. Advertising cards and educational posters. 173,948; Apr. 24.
American Copper Products Corporation, Elizabeth Port, N. J. Bars and insulated wire, cable, and cordage for electrical purposes. 160,685; Apr. 24.
American Marine Paint Company, Inc., New York, N. Y. Paints. 174,987; Apr. 24.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Combined boiler and heater. 154,073; Apr. 24.
American Range & Foundry Company, Minneapolis, Minn. Clothes-washing machines. 173,552; Apr. 24.
American Sport Shop, Inc., New York, N. Y. Sporting goods—namely, ice skates. 175,453; Apr. 24.
American Uniform Company, Inc., Wales, Mass. Woolen fabrics in the piece. 170,115; Apr. 24.
American Watch Import Company, Detroit, Mich. Watch-cases. 173,736; Apr. 24.
Asiatic Import Co., Inc., New York, N. Y. Toy animals. 177,030; Apr. 24.
Associated Exhibitors Inc., Dover, Del., and New York, N. Y. Motion pictures. 175,759; Apr. 24.
Auerbach, D., and Sons, New York, N. Y. Candies. 173,737; Apr. 24.
Baalmann, John, San Francisco, Calif. Gas tablets for relieving gas from the stomach and bowels, etc. 169,996; Apr. 24.
Balsamea Co., The, San Francisco, Calif. Medicinal preparation recommended for the treatment of affections of the throat, etc. 172,661; Apr. 24.
Barnard, William E., doing business as Web Sterilizer Co., New York, N. Y. Toothbrush sterilizers. 160,747; Apr. 24.
Barton, H. H., and Son Co. Inc., Philadelphia, Pa. Aluminum-oxide paper, carbon paper, electric abrasive cloth, etc. 173,461; Apr. 24.
Beech-Nut Packing Company, Canajoharie, N. Y. Bacon. 162,798; Apr. 24.
Benjamin & Johnes, Newark, N. J. Brassières. 170,861; Apr. 24.
Beougher, Lawrence E., McFarland, Calif. Polishes for automobiles and furniture. 176,781; Apr. 24.
Berg, Frank L., Alton, Ill. Candy. 173,289; Apr. 24.
Berkeley Light Corporation, San Francisco, Calif. Electric headlights and hood lights. 137,513; Apr. 24.
Berry Brothers, Detroit, Mich. Varnishes. 177,647; Apr. 24.
Bevin-Wilcox Line Company, East Hampton, Conn. Fish-lines. 175,595; Apr. 24.
Blackbird Factories, Inc., Los Angeles, Calif. Typewriter ribbons. 146,950; Apr. 24.
Blackmore, Edwin N., Vancouver, British Columbia, Canada. Washing compounds and liquids. 172,825; Apr. 24.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 176,943; Apr. 24.
Bowers, Claude E., doing business as Bowers Manufacturing Company, Los Angeles, Calif. Self-propelled toy vehicles. 177,067; Apr. 24.
Brackett, William E., Toledo, Ohio. Powder for bathing, washing, and cleaning purposes. 173,994; Apr. 24.
Braw Laddie Golf Company, Oakland, Calif. Golf clubs. 176,062; Apr. 24.
Brown Company, Portland, Me., and Berlin, N. H. Fiber conduits for electrical purposes. 175,709; Apr. 24.
Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Carbon paper and typewriter ribbons. 172,080; Apr. 24.
Buettner, T., & Co., Chicago, Ill. Art needlework. 170,270; Apr. 24.
Bull Dog Floor Clip Company, Winterset, Iowa. Floor clips for fastening wooden floors or the like to a concrete construction. 160,480; Apr. 24.
Burns, E. Reed, Manufacturing Corp., Brooklyn, N. Y. Polishing compositions in the form of powder, paste, and liquid for metal. 171,009; Apr. 24.
Burns, Frederick M., Mount Vernon, N. Y. Ladies' coats, suits, dresses, outer skirts, blouses, and hats. 175,381; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable seeds. 175,065; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Flower seeds. 175,066; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable, flower, and lawn-grass seeds and bulbs. 175,067; Apr. 24.
Bush, W. J., & Co., Inc., New York, N. Y. Toilet water. 173,170–1; Apr. 24.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 176,067; Apr. 24.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 176,069–71; Apr. 24.
Calhoun, Robbins & Co., New York, N. Y. Hose supporters, garters, belts, etc. 172,201; Apr. 24.
Can-Ho-Lab. Chemical Co., New Orleans, La. Insecticide and germicide. 173,401; Apr. 24.
Cassileth & Schwartz, Brooklyn, N. Y. Fur skins. 169,754; Apr. 24.
Chadwin, Leo L., doing business as Gem Tire and Rubber Company, Philadelphia, Pa. Tires and inner tubes. 172,512; Apr. 24.
Charlotte Electric Repair Co., Inc., Charlotte, N. C. Electric motors, generators, and transformers. 175,300; Apr. 24.
Chillicothe Paper Company, The, Chillicothe, Ohio. Book, bond, and writing paper. 174,610; Apr. 24.
Chore Utensils Corporation of America, The, Orange, N. J. Scouring utensils. 173,321; Apr. 24.
Cicetti, Federico, doing business as No-Worry Chemical Co., Newark, N. J. Washing fluid. 174,725; Apr. 24.
Cleveland Metal Products Company, The, Cleveland, Ohio. Burner drums. 161,302; Apr. 24.
Coggins, Leslie I., San Francisco, Calif. Toilet cream. 167,972; Apr. 24.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. 175,302; Apr. 24.
Consolvo Manufacturing Company, Inc., South Norfolk, Va. Chemical used as a flux for the preparation of an antirusting soldering solution. 172,644; Apr. 24.
Continental Rubber Company of New York, New York, N. Y. Unvulcanized Guayule rubber. 174,427; Apr. 24.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Coulson, Chas. H., doing business as Coulson Heel Company, Hanover, Pa. Shoe heels. 172,262; Apr. 24.
Craddock Terry Company, Lynchburg, Va. Women's shoes. 171,906; Apr. 24.
Cumberland Chemical Co., Nashville, Tenn. Proprietary medicinal preparations. 170,429; Apr. 24.
Cyganiewicz, John, Chicago, Ill. Ladies' hand bags and pocketbooks. 175,071; Apr. 24.
Dalton, Whittier, True Company, Chicago, Ill. Electrical control apparatus. 174,201; Apr. 24.
Daltroff, E. & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, etc. 174,169; Apr. 24.
Davis Chemical Company, Toledo, Ohio. Dry cleaner. 152,834; Apr. 24.
Davis, William A., doing business as Wm. A. Davis Co., Temple, Tex. Frozen fruits and ice cream. 167,767; Apr. 24.
Dawson-Edwards Company, Rocky Ford, Colo. Cantaloupes. 160,876; Apr. 24.
Deavy, Thomas R., doing business as Vesper Pharmacal Co., Tacony, Philadelphia, Pa. Liquid medicine for indigestion, vertigo, etc. 165,855; Apr. 24.
De Brule, August G., doing business as Porcupine Medicine Co., Blewett and Spokane, Wash. Compound for treating rheumatism and diseases of the blood. 174,295; Apr. 24.
Defiance Pressed Steel Company, The, Defiance, Ohio. Bottle containers or cases. 175,714; Apr. 24.
Delacour Bros. Ltd., London, England. Tobacco pipes. 176,723–8; Apr. 24.
Des Lauriers Metal Products Co. Inc., St. Paul, Minn. Milk-shipping cans and cans used for packing and shipping ice cream. 176,166; Apr. 24.
Easting Windscreens Limited, Birmingham, England. Wind screens for use with vehicles. 171,987; Apr. 24.
Ecometer Manufacturing Company, Inc., Orange, N. J. Ignition-timing devices for internal-combustion engines. 151,151; Apr. 24.
Edith, Frances. (See Gallagher, James T.)
Ehmann Olive Company, Oroville, Calif. Canned baked beans with pork. 168,359; Apr. 24.
Eisenlohr, Otto, & Bros. Incorporated, Philadelphia, Pa. Cigars. 177,477; Apr. 24.
Elk Mountain Orchard Co., Asheville, N. C. Fresh apples. 166,356; Apr. 24.
Erste Karlsruher Parfümerie- & Toiletteseifen-Fabrik, F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung, Vienna, Austria. Toilet soap and shaving powder. 173,709–10; Apr. 24.
Evans, Emory J., Kenova, W. Va. Medicine and ingredients of medicine used for tuberculosis, bronchial trouble, etc. 172,324; Apr. 24.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. 166,820; Apr. 24.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. 166,823; Apr. 24.
Exline & Exline Co., The, Dallas, Tex. Bond papers. 173,411; Apr. 24.
Eye-Ryne Laboratories. (See Wahlenmaier, Frank C.)
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires. 173,186; Apr. 24.
Flannery, John R., Pittsburgh, Pa. Gear shifts and parts thereof for motor vehicles. 174,566; Apr. 24.
Fletcher American Company, Indianapolis, Ind. Monthly publication. 158,676; Apr. 24.
Forstmann & Huffmann Company, assignor to Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 169,441; Apr. 24.
Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment made of or plated with precious metal. 139,118; Apr. 24.
Fort Dearborn Candy Company, Chicago, Ill. Candy bars. 160,801; Apr. 24.
Freeman's Foods, Limited, Watford, England. Powders for making lemonade. 168,147; Apr. 24.
Gallagher, James T., doing business as Edith Frances, Miami, Fla. Deodorant. 174,239; Apr. 24.
Gem Tire and Rubber Company. (See Chadwin, Leo L.)
General Bakelite Company, Perth Amboy, N. J. Pipes and pipe parts. 175,601; Apr. 24.
Glistridis, Frosso & Co., New York, N. Y. Candies. 177,183; Apr. 24.
Glo-Tex Company, The, Indianapolis, Ind. Cleaning fluid for dry-cleaning fabrics, leather, and the like. 173,763; Apr. 24.
Golf Progress Company. (See Miller, Arnold W.)
Goodlatte, T. R., & Sons, (Inc.), Clifton, N. J. Oilcloth. 175,193; Apr. 24.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Furniture polish. 176,405; Apr. 24.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Chocolates. 173,417; Apr. 24.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 170,380–1; Apr. 24.
Grimes, David, doing business as Grimes Radio Engr. Co., New York, N. Y. Radio receiving outfits. 174,657; Apr. 24.
H. E. M. Mfg. Co., The, Hamilton, Ohio. Toy coasters. 176,023; Apr. 24.
Haas Baruch & Co., Los Angeles, Calif. Tapioca. 171,317; Apr. 24.
Hale, Alfred, Rubber Company, Quincy, Mass. Boots, shoes, and slippers made wholly or in part of leather, canvas, rubber, etc. 173,314; Apr. 24.
Hale, O. A., & Co., San Jose, Calif. Wool, wool and cotton mixed, and cotton blankets. 174,693; Apr. 24.
Heinze, Augustus P., doing business as Motor Kool Co., Detroit, Mich. Preparation to clean and remove scale and foreign accumulations from the interior of automobile radiators and cooling systems. 138,168; Apr. 24.
Henderson, F. R., & Co., Inc., New York, N. Y. Caoutchouc milk. 172,533; Apr. 24.
Hennessy, Francis W., Providence, R. I. Clothes-supporting racks. 172,836; Apr. 24.
Herrick, William W., Saratoga Springs, N. Y. Cathartic tablets, dyspepsia and indigestion tablets, antiseptic preparations. 174,206; Apr. 24.
Hibler, John M., doing business as J. M. Hibler Mfg. Co., Defiance, Ohio. Cleanser for rugs, carpets, woolen goods, clothing, upholstered furniture, etc. 171,019; Apr. 24.
Hipp, Didisheim Company, Inc., New York, N. Y. Watches, watch movements, and parts of same. 174,621; Apr. 24.
Hirsch, Walter J., Co., Chicago, Ill. Peanut butter, olives, mustard, chow relish. 157,523; Apr. 24.
Hom-Pyrrho Co., San Francisco, Calif. Mouth wash and a remedy for pyorrhea. 174,626; Apr. 24.
Honey Products Co., Tustin, Calif. Peanut jam. 173,769; Apr. 24.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas shoes. 176,344; Apr. 24.
Hooker Electrochemical Company, Niagara Falls, N. Y. Caustic soda, granulated lye, and chlorinated lime. 169,903; Apr. 24.
Hughes, Henry L., Co. Inc., New York, N. Y. Nail polish. 173,497; Apr. 24.
Humber Limited, Coventry, England. Bicycles, tricycles, motor cycles, motor trucks, passenger automobiles. 154,513; Apr. 24.
Hunter Manufacturing & Commission Co., New York, N. Y. Cotton piece goods. 175,314; Apr. 24.
Hurley Shoe Co., Rockland, Mass. Shoes. 168,844. Apr. 24.
Hutmacher Braiding Company, The, Paterson, N. J. Shoe and corset laces. 156,789; Apr. 24.
Hutt & Wasserman, Inc., New York, N. Y. Men's hats. 172,887; Apr. 24.
Hyde, Geo. E., & Co. Inc., Campbell, Calif. Canned fruits. 168,413; Apr. 24.
Illinois Fruit Exchange, Centralia, Ill. Fresh fruits and vegetables. 167,641; Apr. 24.
International Association of Machinists, doing business as Ad-Pep Printing and Publishing Co., Washington, D. C. Cartoons, advertising cartoons, and illustrations. 158,121; Apr. 24.
International Dry Milk Co., Minneapolis, Minn. Powdered milk. 155,689–91; Apr. 24.
International Supply Company, Boston, Mass. Sliding casters. 171,697; Apr. 24.
J. J. Company, The. (See Jenen, Joseph.)
Jaenecke-Ault Company, Newark, N. J. Printing inks. 168,135; Apr. 24.
Jenen, Joseph, doing business as The J. J. Company, Chicago, Ill. Polish for varnished enameled, and lacquered surfaces. 174,142; Apr. 24.
Jimmy Boy Doll Co. (See Kelley, Lucille B.)
John, J. T., Company, Johns, N. C. Cantaloupes 167,569; Apr. 24.
Johnson, Walter J., Columbus, Ohio. Carbon paper, typewriter and multigraph ribbon. 171,221; Apr. 24.
Jolo Laboratories. (See Yydon, Louis H.)
Jones, V. K. & A. H., & Thomas Co., Lynn, Mass. Boots and shoes. 173,357; Apr. 24.
Jordan Marsh Company, Boston, Mass. Electric sad-irons. 173,890; Apr. 24.
Justus, Ocee, doing business as Rado Manufacturing Company, Muncie, Ind. Liquid soap. 174,455; Apr. 24.
Kahlbaum, C. A. F., Chemische Fabrik Gesellschaft mit beschrankter Haftung, Adlershof-Berlin, Germany. Medicinal and pharmaceutical products for treating gouty, rheumatic, neuralgic, and migraine affections. 168,972; Apr. 24.
Kahlbaum, C. A. F., Chemische Fabrik Gesellschaft mit beschrankter Haftung, Adlershof-Berlin, Germany. Medicinal and chemical pharmaceutical products for treating neuralgic and convulsive affections. 168,978. Apr. 24.
Kase Electric Company, Duluth, Minn. Electric vaporizers. 172,421; Apr. 24.
Kelley, Lucille B., doing business as Jimmy Boy Doll Co., Sidney, Ohio. Dolls. 175,660; Apr. 24.
Kendall Mfg. Co., Providence, R. I., Soaps. 170,487; Apr. 24.
Kent-Costikyan Trading Company Inc., New York, N. Y. Textile rugs. 175,661; Apr. 24.

Kickbusch, A., Grocery Company, Wausau, Wis. Scottie. For Peas. 25,860; Apr. 24.
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Oppenheim Oberndorf & Co. Inc., Baltimore, Md. King Tut Shirt. For Shirts and Boxes Containing Shirts. 25,865; Apr. 24.
Stern, Max, Charleroi, Pa. Silver Cap. For Cigars. 25,866; Apr. 24.
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U. S. Oil Company, Providence, R. I. Fulling scouring Perfectol. For Greases for Treating Textile Fabrics. 6,674; Apr. 24.
Volta Co. of America, Inc., Philadelphia, Pa. Volta Powder. For Medicinal Preparation—Namely a Powder for the Treatment of Rheumatism. 6,675; Apr. 24.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abel-Jensen Laboratories, Chicago, Ill. Alkaline salts. 171,884; Apr. 24.
Ad-Pep Printing and Publishing Co. (See International Association of Machinists.)
Adams, Harry E., Haverhill, Mass. Women's sandals of leather and textile material. 176,705–8; Apr. 24.
Agra Company, Detroit, Mich. Perfumes. 174,762; Apr. 24.
Akin Manufacturing Company, Charlotte, N. C. Shoe polish. 174,809; Apr. 24.
Alling & Cory Co., The, Rochester, N. Y. Wrapping paper. 177,158; Apr. 24.
American Banking Machine Corporation, The, Saginaw, Mich. Advertising cards and educational posters. 173,948; Apr. 24.
American Copper Products Corporation, Elizabeth Port, N. J. Bars and insulated wire, cable, and cordage for electrical purposes. 160,685; Apr. 24.
American Marine Paint Company, Inc., New York, N. Y. Paints. 174,987; Apr. 24.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Combined boiler and heater. 154,073; Apr. 24.
American Range & Foundry Company, Minneapolis, Minn. Clothes-washing machines. 173,552; Apr. 24.
American Sport Shop, Inc., New York, N. Y. Sporting goods—namely, ice skates. 175,453; Apr. 24.
American Uniform Company, Inc., Wales, Mass. Woolen fabrics in the piece. 170,115; Apr. 24.
American Watch Import Company, Detroit, Mich. Watch-cases. 173,736; Apr. 24.
Asiatic Import Co., Inc., New York, N. Y. Toy animals. 177,030; Apr. 24.
Associated Exhibitors, Inc., Dover, Del., and New York, N. Y. Motion pictures. 175,759; Apr. 24.
Auerbach, D., and Sons, New York, N. Y. Candies. 173,737; Apr. 24.
Baalmann, John, San Francisco, Calif. Gas tablets for relieving gas from the stomach and bowels, etc. 169,996; Apr. 24.
Balsamea Co., The, San Francisco, Calif. Medicinal preparation recommended for the treatment of affections of the throat, etc. 172,661; Apr. 24.
Barnard, William E., doing business as Web Sterilizer Co., New York, N. Y. Toothbrush sterilizers. 160,747; Apr. 24.
Barton, H. H., and Son Co. Inc., Philadelphia, Pa. Aluminum-oxide paper, carbon paper, electric abrasive cloth, etc. 173,461; Apr. 24.
Beech-Nut Packing Company, Canajoharie, N. Y. Bacon. 162,798; Apr. 24.
Benjamin & Johnes, Newark, N. J. Brassières. 170,861; Apr. 24.
Beougher, Lawrence E., McFarland, Calif. Polishes for automobiles and furniture. 176,781; Apr. 24.
Berg, Frank L., Alton, Ill. Candy. 173,289; Apr. 24.
Berkeley Light Corporation, San Francisco, Calif. Electric headlights and hood lights. 137,513; Apr. 24.
Berry Brothers, Detroit, Mich. Varnishes. 177,647; Apr. 24.
Bevin-Wilcox Line Company, East Hampton, Conn. Fish-lines. 175,595; Apr. 24.
Blackbird Factories, Inc., Los Angeles, Calif. Typewriter ribbons. 146,950; Apr. 24.
Blackmore, Edwin N., Vancouver, British Columbia, Canada. Washing compounds and liquids. 172,825; Apr. 24.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 176,043; Apr. 24.
Bowers, Claude E., doing business as Bowers Manufacturing Company, Los Angeles, Calif. Self-propelled toy vehicles. 177,067; Apr. 24.
Brackett, William E., Toledo, Ohio. Powder for bathing, washing, and cleaning purposes. 173,994; Apr. 24.
Braw Laddie Golf Company, Oakland, Calif. Golf clubs. 176,062; Apr. 24.
Brown Company, Portland, Me., and Berlin, N. H. Fiber conduits for electrical purposes. 175,709; Apr. 24.
Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Carbon paper and typewriter ribbons. 172,080; Apr. 24.
Buettner, T., & Co., Chicago, Ill. Art needlework. 170,270; Apr. 24.
Bull Dog Floor Clip Company, Winterset, Iowa. Floor clips for fastening wooden floors or the like to a concrete construction. 160,480; Apr. 24.
Burns, E. Reed, Manufacturing Corp., Brooklyn, N. Y. Polishing compositions in the form of powder, paste, and liquid for metal. 171,009; Apr. 24.
Burns, Frederick M., Mount Vernon, N. Y. Ladies' coats, suits, dresses, outer skirts, blouses, and hats. 175,381; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable seeds. 175,065; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Flower seeds. 175,066; Apr. 24.
Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable, flower, and lawn-grass seeds and bulbs. 175,067; Apr. 24.
Bush, W. J., & Co., Inc., New York, N. Y. Toilet water. 173,170–1; Apr. 24.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 176,067; Apr. 24.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 176,069–71; Apr. 24.
Calhoun, Robbins & Co., New York, N. Y. Hose supporters, garters, belts, etc. 172,201; Apr. 24.
Can-Ho-Lab. Chemical Co., New Orleans, La. Insecticide and germicide. 173,401; Apr. 24.
Cassileth & Schwartz, Brooklyn, N. Y. Fur skins. 169,754; Apr. 24.
Chadwin, Leo L., doing business as Gem Tire and Rubber Company, Philadelphia, Pa. Tires and inner tubes. 172,512; Apr. 24.
Charlotte Electric Repair Co., Inc., Charlotte, N. C. Electric motors, generators, and transformers. 175,300; Apr. 24.
Chillicothe Paper Company, The, Chillicothe, Ohio. Book, bond, and writing paper. 174,610; Apr. 24.
Chore Utensils Corporation of America, The, Orange, N. J. Scouring utensils. 173,321; Apr. 24.
Cicetti, Federico, doing business as No-Worry Chemical Co., Newark, N. J. Washing fluid. 174,725; Apr. 24.
Cleveland Metal Products Company, The, Cleveland, Ohio. Burner drums. 161,302; Apr. 24.
Coggins, Leslie I., San Francisco, Calif. Toilet cream. 167,972; Apr. 24.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. 175,302; Apr. 24.
Consolvo Manufacturing Company, Inc., South Norfolk, Va. Chemical used as a flux for the preparation of an antirusting soldering solution. 172,644; Apr. 24.
Continental Rubber Company of New York, New York, N. Y. Unvulcanized Guayule rubber. 174,427; Apr. 24.

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Coulson, Chas. H., doing business as Coulson Heel Company, Hanover, Pa. Shoe heels. 172,262; Apr. 24.
Craddock Terry Company, Lynchburg, Va. Women's shoes. 171,006; Apr. 24.
Cumberland Chemical Co., Nashville, Tenn. Proprietary medicinal preparations. 170,429; Apr. 24.
Cyganiewicz, John, Chicago, Ill. Ladies' hand bags and pocketbooks. 175,071; Apr. 24.
Dalton, Whittier, True Company, Chicago, Ill. Electrical control apparatus. 174,201; Apr. 24.
Daltroff, E. & Cie., doing business as Parfumerie Caron, Paris, France. Perfume, toilet water, rouges, etc. 174,169; Apr. 24.
Davis Chemical Company, Toledo, Ohio. Dry cleaner. 152,834; Apr. 24.
Davis, William A., doing business as Wm. A. Davis Co., Temple, Tex. Frozen fruits and ice cream. 167,767; Apr. 24.
Dawson-Edwards Company, Rocky Ford, Colo. Cantaloupes. 160,876; Apr. 24.
Deavy, Thomas R., doing business as Vesper Pharmacal Co., Tacony, Philadelphia, Pa. Liquid medicine for indigestion, vertigo, etc. 165,855; Apr. 24.
De Brule, August G., doing business as Porcupine Medicine Co., Blewett and Spokane, Wash. Compound for treating rheumatism and diseases of the blood. 174,295; Apr. 24.
Defiance Pressed Steel Company, The, Defiance, Ohio. Bottle containers or cases. 175,714; Apr. 24.
Delacour Bros. Ltd., London, England. Tobacco pipes. 176,723–8; Apr. 24.
Des Lauriers Metal Products Co. Inc., St. Paul, Minn. Milk-shipping cans and cans used for packing and shipping ice cream. 176,166; Apr. 24.
Easting Windscreens Limited, Birmingham, England. Wind screens for use with vehicles. 171,987; Apr. 24.
Ecometer Manufacturing Company, Inc., Orange, N. J. Ignition-timing devices for internal-combustion engines. 151,151; Apr. 24.
Edith, Frances. (See Gallagher, James T.)
Ehmann Olive Company, Oroville, Calif. Canned baked beans with pork. 168,359; Apr. 24.
Eisenlohr, Otto, & Bros. Incorporated, Philadelphia, Pa. Cigars. 177,477; Apr. 24.
Elk Mountain Orchard Co., Asheville, N. C. Fresh apples. 166,356; Apr. 24.
Erste Karlsruher Parfümerie- & Toiletteseifen-Fabrik, F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung, Vienna, Austria. Toilet soap and shaving powder. 173,709–10; Apr. 24.
Evans, Emory J., Kenova, W. Va. Medicine and ingredients of medicine used for tuberculosis, bronchial trouble, etc. 172,324; Apr. 24.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. 166,820; Apr. 24.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. 166,823; Apr. 24.
Exline & Exline Co., The, Dallas, Tex. Bond papers. 173,411; Apr. 24.
Eye-Ryne Laboratories. (See Wahlenmaier, Frank C.)
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires. 173,186; Apr. 24.
Flannery, John R., Pittsburgh, Pa. Gear shifts and parts thereof for motor vehicles. 174,566; Apr. 24.
Fletcher American Company, Indianapolis, Ind. Monthly publication. 158,676; Apr. 24.
Forstmann & Huffmann Company, assignor to Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 169,441; Apr. 24.
Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment made of or plated with precious metal. 139,118; Apr. 24.
Fort Dearborn Candy Company, Chicago, Ill. Candy bars. 160,801; Apr. 24.
Freeman's Foods, Limited, Watford, England. Powders for making lemonade. 168,147; Apr. 24.
Gallagher, James T., doing business as Edith Frances, Miami, Fla. Deodorant. 174,239; Apr. 24.
Gem Tire and Rubber Company. (See Chadwin, Leo L.)
General Bakelite Company, Perth Amboy, N. J. Pipes and pipe parts. 175,601; Apr. 24.
Glistridis, Frosso & Co., New York, N. Y. Candies. 177,183; Apr. 24.
Glo-Tex Company, The, Indianapolis, Ind. Cleaning fluid for dry-cleaning fabrics, leather, and the like. 173,763; Apr. 24.
Golf Progress Company. (See Miller, Arnold W.)
Goodiatte, T. R., & Sons, (Inc.), Clifton, N. J. Oilcloth. 175,193; Apr. 24.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Furniture polish. 176,405; Apr. 24.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Chocolates. 173,417; Apr. 24.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 170,380–1; Apr. 24.
Grimes, David, doing business as Grimes Radio Engr. Co., New York, N. Y. Radio receiving outfits. 174,657; Apr. 24.
H. E. M. Mfg. Co., The, Hamilton, Ohio. Toy coasters. 176,023; Apr. 24.
Haas Baruch & Co., Los Angeles, Calif. Tapioca. 171,317; Apr. 24.
Hale, Alfred, Rubber Company, Quincy, Mass. Boots, shoes, and slippers made wholly or in part of leather, canvas, rubber, etc. 173,314; Apr. 24.
Hale, O. A., & Co., San Jose, Calif. Wool, wool and cotton mixed, and cotton blankets. 174,693; Apr. 24.
Heinze, Augustus P., doing business as Motor Kool Co., Detroit, Mich. Preparation to clean and remove scale and foreign accumulations from the interior of automobile radiators and cooling systems. 138,168; Apr. 24.
Henderson, F. R., & Co., Inc., New York, N. Y. Caoutchouc milk. 172,533; Apr. 24.
Hennessy, Francis W., Providence, R. I. Clothes-supporting racks. 172,836; Apr. 24.
Herrick, William W., Saratoga Springs, N. Y. Cathartic tablets, dyspepsia and indigestion tablets, antiseptic preparations. 174,206; Apr. 24.
Hibler, John M., doing business as J. M. Hibler Mfg. Co., Defiance, Ohio. Cleanser for rugs, carpets, woolen goods, clothing, upholstered furniture, etc. 171,019; Apr. 24.
Hipp, Didisheim Company, Inc., New York, N. Y. Watches, watch movements, and parts of same. 174,621; Apr. 24.
Hirsch, Walter J., Co., Chicago, Ill. Peanut butter, olives, mustard, chow relish. 157,523; Apr. 24.
Hom-Pyrrho Co., San Francisco, Calif. Mouth wash and a remedy for pyorrhea. 174,626; Apr. 24.
Honey Products Co., Tustin, Calif. Peanut jam. 173,769; Apr. 24.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas shoes. 176,344; Apr. 24.
Hooker Electrochemical Company, Niagara Falls, N. Y. Caustic soda, granulated lye, and chlorinated lime. 169,903; Apr. 24.
Hughes, Henry L., Co. Inc., New York, N. Y. Nail polish. 173,497; Apr. 24.
Humber Limited, Coventry, England. Bicycles, tricycles, motor cycles, motor trucks, passenger automobiles. 154,513; Apr. 24.
Hunter Manufacturing & Commission Co., New York, N. Y. Cotton piece goods. 175,314; Apr. 24.
Hurley Shoe Co., Rockland, Mass. Shoes. 168,844. Apr. 24.
Hutmacher Braiding Company, The, Paterson, N. J. Shoe and corset laces. 156,789; Apr. 24.
Hutt & Wasserman, Inc., New York, N. Y. Men's hats. 172,837; Apr. 24.
Hyde, Geo. E., & Co. Inc., Campbell, Calif. Canned fruits. 168,413; Apr. 24.
Illinois Fruit Exchange, Centralia, Ill. Fresh fruits and vegetables. 167,641; Apr. 24.
International Association of Machinists, doing business as Ad-Pep Printing and Publishing Co., Washington, D. C. Cartoons, advertising cartoons, and illustrations. 158,121; Apr. 24.
International Dry Milk Co., Minneapolis, Minn. Powdered milk. 155,689–91; Apr. 24.
International Supply Company, Boston, Mass. Sliding casters. 171,697; Apr. 24.
J. J. Company, The. (See Jenen, Joseph.)
Jaenecke-Ault Company, Newark, N. J. Printing inks. 168,135; Apr. 24.
Jenen, Joseph, doing business as The J. J. Company, Chicago, Ill. Polish for varnished enameled, and lacquered surfaces. 174,142; Apr. 24.
Jimmy Boy Doll Co. (See Kelley, Lucille B.)
John, J. T., Company, Johns, N. C. Cantaloupes 167,569; Apr. 24.
Johnson, Walter J., Columbus, Ohio. Carbon paper, typewriter and multigraph ribbon. 171,221; Apr. 24.
Jolo Laboratories. (See Yydon, Louis H.)
Jones, V. K. & A. H., & Thomas Co., Lynn, Mass. Boots and shoes. 173,357; Apr. 24.
Jordan Marsh Company, Boston, Mass. Electric sad-irons. 173,890; Apr. 24.
Justus, Ocee, doing business as Rado Manufacturing Company, Muncie, Ind. Liquid soap. 174,455; Apr. 24.
Kahlbaum, C. A. F., Chemische Fabrik Gesellschaft mit beschrankter Haftung, Adlershof-Berlin, Germany. Medicinal and pharmaceutical products for treating gouty, rheumatic, neuralgic, and migraine affections. 168,972; Apr. 24.
Kahlbaum, C. A. F., Chemische Fabrik Gesellschaft mit beschrankter Haftung, Adlershof-Berlin, Germany. Medicinal and chemical pharmaceutical products for treating neuralgic and convulsive affections. 168,978. Apr. 24.
Kase Electric Company, Duluth, Minn. Electric vaporizers. 172,421; Apr. 24.
Kelley, Lucille B., doing business as Jimmy Boy Doll Co., Sidney, Ohio. Dolls. 175,660; Apr. 24.
Kendall Mfg. Co., Providence, R. I., Soaps. 170,487; Apr. 24.
Kent-Costikyan Trading Company Inc., New York, N. Y. Textile rugs. 175,661; Apr. 24.

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Kermul Products, Inc., New York, N. Y. Wonder soap, body wash, floor cleaner, glass polish, metal polish, etc. 173,968; Apr. 24.

Kilzol Products Company, The, New York, N. Y. Insecticides, disinfectants, and deoderizers. 171,274; Apr. 24.

Kin, Yamei, New York, N. Y. Curd meat from the soyer. 131,177; Apr. 24.

King, Frank O., Chicago, Ill. Dolls. 177,228; Apr. 24.

King Player Action Company, Inc., New York, N. Y. Piano-player actions. 172,420; Apr. 24.

Knox Hat Company, Inc., New York, N. Y. Hats for men, women, and children. 171,806; Apr. 24.

Kops Bros., New York, N. Y. Corsets, brassières, corset covers, waists, and underwear for women. 167,987; Apr. 24.

Kazol Laboratories. (See McCollam, Francis L.)

Krank, A. J., Mfg. Co., St. Paul, Minn. Vanishing and massage cream. 173,500; Apr. 24.

Krank, Alfred J., St. Paul, Minn. Hair tonic and fixative. 173,193; Apr. 24.

Laidlaw, James H., doing business as Marvel-o Manufacturing Co., San Diego, Calif. Polishing compound for automobile bodies. 149,592; Apr. 24.

Lawrence Soap Co., Methuen, Mass. Soaps. 169,366; Apr. 24.

Lesh, Edwin Z., Dayton, Ohio. Drafting instruments. 136,377; Apr. 24.

Lever Brothers Company, Cambridge, Mass. Soap and soap powder. 171,130; Apr. 24.

Levussove, Louis, New York, N. Y. Human and animal hair. 162,751; Apr. 24.

Lindemann, A. J., & Hoverson Company, Milwaukee, Wis. Electric stoves, heaters, sadirons, etc. 167,575; Apr. 24.

Lionel Trading Co., Inc., New York, N. Y. Face powders and rouges. 174,085; Apr. 24.

London Shoe Co., Inc., New York, N. Y. Fabric and leather shoes. 172,948; Apr. 24.

Lurie Company, Inc., The, New York, N. Y. Monthly magazine. 167,471; Apr. 24.

Lydon, Louis H., doing business as Jolo Laboratories, Denver, Colo. Lotion to be used on hands and face. 174,664; Apr. 24.

Lyndon Chemical Company, The, Dayton, Ohio. Ointment for aches, pains, burns, etc. 174,088–9; Apr. 24.

McCollam, Francis L., doing business as Kozol Laboratories, New York, N. Y. Medical compounds for the relief of pain and the reduction of temperature. 172,426; Apr. 24.

McKay Company, New York, N. Y. Chemical compound for etching glass. 174,091; Apr. 24.

McMillan, A. G., doing business as Sales Equipment Company, Detroit, Mich. Combination index and sales-data book. 174,318; Apr. 24.

Mailliard & Schmiedell, San Francisco, Calif. Olive oil. 165,801–2; Apr. 24.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 173,139; Apr. 24.

Marinette Electric Corporation, Marinette, Wis. Radio receiving sets. 176,634; Apr. 24.

Markman, Simon, New York, N. Y. Clay and paste for the complexion. 162,941; Apr. 24.

Marshall Field & Company, Chicago, Ill. Women's hosiery. 158,115; Apr. 24.

Marshall-Wells Company, Duluth, Minn. Laundry washing machines and wringers. 174,211; Apr. 24.

Marvel-o Manufacturing Company. (See Laidlaw, James H.)

Marvello Lace Company, New York, N. Y. Lace edgings in the piece. 168,220; Apr. 24.

Mason, Judson T., doing business as Tol-O-Nite Remedy Co., Washington, D. C. Compound for treating influenza, grippe, etc. 174,317; Apr. 24.

Meier, John, Shoe Company, St. Louis, Mo. Leather shoes. 158,722; Apr. 24.

Menihan Company, The, Rochester, N. Y. Leather shoes. 158,787–8; Apr. 24.

Merton, Charles S., & Co., East Rutherford, N. J. Men's and boys' hats and caps. 173,778; Apr. 24.

Meyer Bros., Dalcour, La. Fresh vegetables. 164,334; Apr. 24.

Meyer, Jos. H., Bros., Inc., Brooklyn, N. Y. Reproductions of precious and semiprecious gems and stones. 164,931–2; Apr. 24.

Mica Insulator Company, New York, N. Y. Treated and untreated tapes for electrical insulation purposes. 173,844; Apr. 24.

Mid-Continent Tire Manufacturing Company, Wichita, Kans. Rubber tires and inner tubes. 118,089; Apr. 24.

Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Silk, cotton, wool piece goods and combinations thereof. 175,670; Apr. 24.

Miller, Arnold W., doing business as Golf Progress Company, Columbus, Ohio. Golf-stroke practice and exercising device. 176,637; Apr. 24.

Miller Rubber Company, The, Akron, Ohio. Solid and pneumatic rubber and fabric tires. 174,791; Apr. 24.

Milwaukee Paint & Varnish Works, Milwaukee, Wis. Varnish. 168,328; Apr. 24.

Mitchell, Fredrick G., doing business as L. Mitchell & Company, Chicago, Ill. Bluing paddles. 173,334; Apr. 24.

Mme. Irene, New York, N. Y. Corsets. 169,361; Apr. 24.

Morrill, Joseph H., Portsmouth, N. H. Automobile top dressing. 173,360; Apr. 24.

Morse, A. G., Company, Chicago, Ill. Candy. 173,438; Apr. 24.

Motor Kool Co. (See Heinze, Augustus P.)

Munning, A. P., & Co., Matawan, N. J. Abrasives. 166,312; Apr. 24.

Munning, A. P., & Co., Matawan, N. J. Buffing rouge and materials of similar character. 174,321–4; Apr. 24.

Munning, A. P., & Co., Matawan, N. J. Buffing rouge used in the buffing and polishing trade to produce a bright luster on gold, silver, etc. 174,792–3; Apr. 24.

N. V. Vernis- en Verffabriek v. h. J. Wagenmakers & Zonen, Breda, Netherlands. Paints, varnishes, oils. 172,391; Apr. 24.

National Electric Manufacturing Company, Pittsburgh, Pa. Electric hammers. 175,881; Apr. 24.

National Graphite Company, doing business as National Laboratories, Boston, Mass. Metal and stove polish. 172,389; Apr. 24.

National Paper Can Company, The, Milwaukee, Wis. Paper cans. 177,317; Apr. 24.

Naylor, Roger W., Chicago, Ill. Sanitary napkins. 174,629; Apr. 24.

Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. 173,657; Apr. 24.

New Process Company, Warren, Pa. Wardrobe trunks. 175,620; Apr. 24.

Niagara Alkali Company, Niagara Falls, N. Y. Flake lye. 169,918; Apr. 24.

No-Worry Chemical Co. (See Cicetti, Federico.)

Northman Publishing Company, The, Portland, Oreg. Monthly magazine. 171,380; Apr. 24.

Oil and Chemical Corporation, The, Chicago, Ill. Lubricating oils and greases, automobile fuel oils, cutting oils for treating metals. 138,722; Apr. 24.

Olivette Laboratories, Inc., Providence, R. I. Toilet powder. 174,700; Apr. 24.

Olson Brothers Company, Minneapolis, Minn. Polishes for furniture, automobiles, etc. 173,203; Apr. 24.

Oneida Community Limited, Oneida, N. Y. Silver-plated flatware, tableware, and cutlery. 168,617–18; Apr. 24.

Oneida Community Limited, Oneida, N. Y. Silver-plated flatware, tableware, and cutlery. 168,724; Apr. 24.

Oppenheim, Collins & Company, New York, Inc., New York, N. Y. Footwear. 173,001; Apr. 24.

Orchard Drug Co., Lynchburg, Va. Emulsion petroleum used in throat, lung trouble, bronchitis, bronchial catarrh, etc. 165,807–8; Apr. 24.

Ottenheimer, Reuben E., doing business as The Reol Refrigerator Co., Baltimore, Md. Refrigerators and refrigerator show cases. 173,204; Apr. 24.

Owego Corset Company, Inc., Owego, N. Y. Corsets, girdles, bandeaux, and brassières. 172,899; Apr. 24.

Parfumerie Caron. (See Daltroff, E., & Cie.)

Parker-Bridget Company, Washington, D. C. Men's winter hats. 172,238; Apr. 24.

Pennsylvania Soap Company of Lancaster, Pa., Lancaster, Pa. Soaps. 170,728; Apr. 24.

Pfund Nursery Co., Oak Park, Ill. Nursery products. 174,028; Apr. 24.

Phillips, Manning, doing business as I. & M. Phillips, New York, N. Y. Women's shirts, trousers, and jackets. 157,581; Apr. 24.

Phospho-Albumen Company, Inc., The, Newburgh, N. Y. Pharmaceutical preparation. 174,258; Apr. 24.

Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; New York, N. Y.; Orleans, Ind.; and Hot Springs, Ark. Oilstones, scythestones, whetstones, ax stones, oil and water stones, etc. 173,362; Apr. 24.

Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; New York, N. Y.; Orleans, Ind., and Hot Springs, Ark. Oilstones, scythestones, whetstones, ax stones, water stones, hones, strops, etc. 173,783; Apr. 24.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints. 177,451; Apr. 24.

Plainville Electric Products Company, The, Plainville, Conn. Knife switches, panel boards, switchboards, and fuse reducers. 171,432; Apr. 24.

Polyphonwerke Aktiengesellschaft, Berlin, Germany. Phonographs, coin-operated talking and musical machines, and phonograph needles. 145,583; Apr. 24.

Porcupine Medicine Co. (See De Brule, August G.)

Price, Arthur, New York, N. Y. Advertising motion-picture-projection apparatus, motion-picture-display cabinets, etc. 168,691; Apr. 24.

Primalt Products Co., Chicago, Ill. Malt sirup. 167,420; Apr. 24.

Products Mfg. & Sales Co., Milwaukee, Wis. Compound having the appearance of putty and used to retain molten metal while pouring bearings. 167,686; Apr. 24.

Public Ledger Company, Philadelphia, Pa. Title for cartoons. 172,900; Apr. 24.

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Radio Corporation of America, New York, N. Y. Radio receiving sets. 174,859; Apr. 24.

Radio-Lite, Inc., Boston, Mass. Electric lights for automobiles and other vehicles and parts thereof. 172,394; Apr. 24.

Radio Manufacturing Company. (See Justus, Ocee.)

Radio Publishing Corporation, New York, N. Y. Monthly Magazine. 168,720; Apr. 24.

Reese, Bert, Philadelphia, Pa. Cartoons and illustrations used for advertising purposes. 173,209; Apr. 24.

Reol Refrigerator Co. (See Ottenheimer, Reuben E.)

Reubenstone, Louis, New York, N. Y. Jewelry. 169,423; Apr. 24.

Reynolds, Charles A., doing business as C. A. Reynolds Leather Company, Camden, N. J. Goatskins, colt and horse hides, kips, and cow sides. 174,592; Apr. 24.

Ridley, Lotta B., Louisville, Ky. Face powder in paste form. 167,327; Apr. 24.

Rike Folding Box Company, The, Dayton, Ohio. Paper garment bags. 159,882; Apr. 24.

Ritter Brothers, New York, N. Y. Vanity cases and ladies' hand bags. 177,517; Apr. 24.

Roach Tisdale & Co., Minneapolis, Minn. Confections comprising chocolates, bonbons, hard candies, etc. 173,534; Apr. 24.

Robertson, Walter, & Son, Ltd., Brentford Bridge, Middlesex, England. Table jellies, caramel toffees, and other boiled-sugar goods. 167,690; Apr. 24.

Robinson-Roders Co., Inc., The, Newark, N. J. Mattresses, pillows, bolsters, cushions. 130,604; Apr. 24.

Rock Island Register Company, Rock Island, Ill. Registers for heating purposes. 165,157; Apr. 24.

Rogers, Francis, & Sons, New York, N. Y. Arch supports. 172,557; Apr. 24.

Roller, George W., Spokane, Wash. Insecticide for use in exterminating rodents and insects. 173,364; Apr. 24.

Russell Playing Card Co., Milltown, N. J. Playing cards. 177,100; Apr. 24.

S & C Manufacturing Company, Stockton, Calif. Combined pump and fan attachment for automobiles. 170,508; Apr. 24.

Safety Sled Company, Inc., Mount Jewett, Pa. Sleds. 175,949; Apr. 24.

Sales Equipment Company. (See McMillan A. G.)

Sally Mint Company, New York, N. Y. Candy and peppermint lozenges. 169,185; Apr. 24.

Samstag & Hilder Bros., New York, N. Y. Lingerie tape, pins, etc. 172,060; Apr. 24.

San Francisco Breweries, Ltd., The, San Francisco, Calif. Canned preserved fruits, jams, jellies, and fruit sirups. 167,368; Apr. 24.

Savoy Importing Co. Inc., New York, N. Y. Tunny fish, tomatoes, tomato sauce and paste, string beans, etc. 163,711; Apr. 24.

Sawkins, Huntington D., Baltimore, Md. Salted peanuts and salted almonds. 173,580; Apr. 24.

Scheel, William H., New York, N. Y. Lacquer compositions. 175,326; Apr. 24.

Scott, Harry L., Baltimore, Md. Ice-cream cones made of milk chocolate. 170,043; Apr. 24.

Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Phonograph records. 140,072; Apr. 24.

Seldage, Joseph J., Spokane, Wash. Insecticide for use in exterminating rodents, etc. 173,366; Apr. 24.

Setzer, Albert, Providence, R. I. Electric storage batteries. 164,129; Apr. 24.

Silberstein, Rosen & Sons, Inc., New York, N. Y. Handkerchiefs. 173,304; Apr. 24.

Sisco Bros. Candy Co., Chicago, Ill. Candy. 168,493; Apr. 24.

Smith & Egge Manfg. Co., The, Bridgeport, Conn. Sheet-metal chains. 173,447; Apr. 24.

Smith-Beal Fire Brick Co., Minneapolis, Minn. Fire brick, high-temperature cements, fire-clay tile, cupola blocks, and kiln liners. 170,904; Apr. 24.

Smith, Thomas S., Chicago, Ill. Fresh deciduous fruits and vegetables. 174,038; Apr. 24.

Sonnenschein, J., Hop Company, Inc., New York, N. Y. Hops. 173,149; Apr. 24.

Southern Spring Bed Company, Atlanta, Ga. Spring beds, mattresses, cots, and metal bedsteads. 173,859; Apr. 24.

Spencer, George, Moulton & Co. Ltd., Westminster, London, England. Rubber tires and inner tubes. 151,299; Apr. 24.

Sperlich and Uhlig Company, Detroit, Mich. Mangles. 170,222; Apr. 24.

Sprague, Eugene A., doing business as Sprague Manufacturing Co., San Francisco, Calif. Soap compounds. 174,641; Apr. 24.

Standard Motor Parts Company, Chicago, Ill. Lining for automobile transmissions. 175,413; Apr. 24.

Supersoap Products Co., Inc., New York, N. Y. Soaps. 149,601; Apr. 24.

Susquehanna Silk Mills, New York, N. Y. Ratine in the piece. 177,147; Apr. 24.

Taft, Royal C., doing business as R. C. Taft Company, Chicago, Ill. Ribbon novelties or trims as may be used upon powder puffs, camisole straps, lingerie sets, etc. 170,164; Apr. 24.

Takamine Laboratory, Inc., Clifton, N. J. Enzyme substances of vegetable fungus. 147,806; Apr. 24.

Taylor-Friedsam Company, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. 176,860; Apr. 24.

Texas Farm Bureau Melon Growers' Exchange, Dallas, Tex. Watermelons. 167,152; Apr. 24.

Thermalene Gas Corporation, Kankakee, Ill. Generators for producing gas, gas cartridges, and parts thereof, etc. 171,823; Apr. 24.

Thomas-Body Co., Oakland, Calif. Canned fruits. 173,792; Apr. 24.

Tol-O-Nite Remedy Co. (See Mason, Judson T.)

Travis, Romaine & Jellé, Inc., New York, N. Y. Silk, artificial-silk, cotton, and wool piece goods and combinations thereof. 174,545; Apr. 24.

Tween-Meal Products Co. (See Wilcox, Edgar A.)

Twombly, Edna G., administratrix of the estate of Dr. James Twombly, Stoughton, Mass. Tonic for the nervous system. 171,341; Apr. 24.

Tyler, E. J., Bethel, Me. Canned fruits and vegetables. 162,328; Apr. 24.

Typke & King, Ltd., Micham Common, Surrey, England. Antimony, cadmium sulphides, arsenic sulphides, chrome exides, etc. 165,168; Apr. 24.

U. R. S. Candy Stores, Inc., New York, N. Y. Candy. 168,502; Apr. 24.

Union Radio Corporation, New York, N. Y. Radio telephone and telegraphic instruments and parts thereof. 162,091; Apr. 24.

United States Bung Mfg. Co., The, New York and Brooklyn, N. Y., and Cincinnati, Ohio. Bungs. 162,909; Apr. 24.

Vaughan-Towle Co., Lynn, Mass. Shoes made wholly or in part of leather. 176,300; Apr. 24.

Vesper Pharmacal Co. (See Deavy, Thomas R.)

Virginia Blue Gem Coal Corporation, Pennington Gap and North Fork, Va. Steam and domestic coal. 175,691; Apr. 24.

Waelchli, N. L., Denver, Colo. Pharmaceutical preparations used as an inhalant for use in cases of tuberculosis. 172,852; Apr. 24.

Wahlenmaier, Frank C., doing business as Eye-Ryne Laboratories, Kansas City, Kans. Eye lotion. 162,702; Apr. 24.

Walker Webbing Co., Providence, R. I. Shoe, etc., lacings, galloons, braids, webbings, beltings, tapes, and hair-pins. 156,125; Apr. 24.

Ward Baking Company, New York, N. Y. Yeast food. 173,586; Apr. 24.

Warren Foundry and Machine Company, Phillipsburg, N. J. Cast-iron gas and water pipes and fittings. 164,846; Apr. 24.

Way Works, Incorporated, Philadelphia, Pa. Hinges. 174,549; Apr. 24.

Web Sterilizer Co. (See Barnard, William E.)

Wertheimer Brothers, New York, N. Y. Ribbons. 176,052; Apr. 24.

West Disinfecting Company, New York, N. Y. Liquid-soap-dispensing systems. 173,264; Apr. 24.

Western Tobacco Company, Inc., New York, N. Y. Cigarettes. 176,236; Apr. 24.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lightning arresters. 176,864; Apr. 24.

White, Edward F., doing business as White Products Company, Norfolk, Va. Preparation for the treatment of coughs, colds, etc. 172,459; Apr. 24.

White, Joseph J., Inc., New Lisbon, N. J. Blueberry plants. 172,458; Apr. 2.

Wilcox, Edgar A., doing business as Tween-Meal Products Co., Los Angeles, Calif. Honey, marmalade, candied fruits, peanut roll, etc. 169,883; Apr. 24.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. 166,757; Apr. 24.

Wilson, G. N. W., Tacoma, Wash. Razor strops. 164,684; Apr. 24.

Winchester Company, The, New Haven, Conn. Golf bags. 176,055; Apr. 24.

Witman, Frank R., doing business as Frank R. Witman Phonograph Supply Company, Putnam, Conn. Phonograph accessories. 170,964; Apr. 24.

Wolf Creek Soap Works Company, The, near Dayton, Montgomery County, Ohio. Soaps. 157,744; Apr. 24.

Womble Chemical Company, Womble, Ark. Hair tonic. 174,714; Apr. 24.

Wood, T. W., & Sons, Richmond, Va. Section of a catalogue published monthly. 174,682; Apr. 24.

Zolla, Max A., Chicago, Ill. Artificial pearls. 160,378; Apr. 24.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Aluminum and aluminum alloys, Crude and prepared. Aluminum-Industrie-Aktien-Gesellschaft. 167,243; Apr. 24; Serial No. 173,023; published Feb. 6, 1923.
Alley, Nonferrous. Roessler & Hasslacher Chemical Co. 167,206; Apr. 24; Serial No. 167,013; published Feb. 6, 1923.
Amplifiers, audiofrequency transformers, sockets, etc. General Radio Company. 167,334; Apr. 24.
Apples, potatoes, and cream, cattle, Fresh. R. F. Perkins. 167,057; Apr. 24; Serial No. 160,721; published Jan. 30, 1923.
Athletic outfits. Thos. E. Wilson & Co. 167,030; Apr. 24; Serial No. 170,169; published Jan. 30, 1923.
Athletic outfits. Thos. E. Wilson & Co. 167,049; Apr. 24; Serial No. 170,170; published Jan. 30, 1923.
Automobile-actuated transmission appliance. Industrial Service Company. 167,222; Apr. 24; Serial No. 156,833; published Feb. 6, 1923.
Automobile body hardware. Ternstedt Manufacturing Company. 167,214; Apr. 24; Serial No. 163,901; published Jan. 30, 1923.
Automobile body hardware. Ternstedt Manufacturing Company. 167,217; Apr. 24; Serial No. 163,900; published Jan. 30, 1923.
Bakers' and confectioners' supplies. T. F. Naughtin. 167,010; Apr. 24; Serial No. 162,762; published Jan. 30, 1923.
Baking powder. Wm. G. Dean & Son. 167,284; Apr. 24.
Balls, Golf. Crawford, McGregor & Canby Company. 167,168; Apr. 24; Serial No. 171,617; published Jan. 30, 1923.
Balls, Golf. John Wanamaker, New York. 167,036; Apr. 24; Serial No. 170,915; published Jan. 16, 1923.
Balls, Golf. L. A. Wimpfheimer. 167,171; Apr. 24; Serial No. 171,776; published Jan. 30, 1923.
Balls, Play and beach. Knoxall Novelties, Inc. 167,109; Apr. 24; Serial No. 169,857; published Feb. 6, 1923.
Barley, oats, and rolled oats, etc. N. V. Koninklijke Pellerij "Mercurius" voorheen Gebroeders Laan. 167,132; Apr. 24; Serial No. 159,396; published Dec. 26, 1922.
Beverage, Dry compound for making nonalcoholic, maltless. Golden Grain Juice Co. 167,106; Apr. 24; Serial No. 169,588; published Jan. 9, 1923.
Beverage made from milk, cocoa, etc., and a sirup for making the same. R. W. Goodale. 167,162; Apr. 24; Serial No. 171,214; published Feb. 6, 1923.
Beverage purposes, Nonalcoholic, maltless fruit-flavored concentrate for. Premier Malt Products Company of Ohio. 167,048; Apr. 24; Serial No. 170,213; published Jan. 30, 1923.
Beverage sold as a soft drink. R. G. Court Co. 167,013; Apr. 24; Serial No. 162,666; published Aug. 29, 1922.
Beverage sold as a soft drink. C. F. Martin. 167,116; Apr. 24; Serial No. 164,254; published July 25, 1922.
Beverage sold as a soft drink and sirup for making same. J. A. Fleming. 167,107; Apr. 24; Serial No. 169,673; published Jan. 30, 1923.
Beverage sold as a soft drink. L. Wolf. 167,312; Apr. 24.
Beverages sold as soft drinks and sirups for making same. Jack Beverage Company. 167,074; Apr. 24; Serial No. 172,107; published Feb. 6, 1923.
Beverages and sirups and concentrates for making same. Citrus Products Company. 167,082; Apr. 24; Serial No. 154,483; published Aug. 22, 1922.
Beverages sold as soft drinks and compounds and concentrates for manufacturing same. Citrus Products Company. 167,099; Apr. 24; Serial No. 167,555; published Jan. 30, 1923.
Bits and augers. Irwin Auger Bit Company. 167,244; Apr. 24; Serial No. 171,801; published Jan. 30, 1923.
Bread. General Baking Company. 167,085; Apr. 24; Serial Nos. 152,465–6; published Dec. 19, 1922.
Bread. General Baking Company. 167,270; Apr. 24; Serial No. 152,466; published Dec. 19, 1922.
Bread. General Baking Company. 167,275; Apr. 24; Serial Nos. 151,266–7; published Dec. 26, 1922.
Bread. Gordon-Pagel Company. 167,265; Apr. 24; Serial No. 153,596; published Feb. 6, 1923.
Bread. Scheller Catering Company. 167,183; Apr. 24; Serial No. 162,856; published Dec. 12, 1922.
Bread. Star Bakery Co. 167,198; Apr. 24; Serial No. 162,513; published Jan. 23, 1923
Bread, cake, wheat, corn, and rye flour, and yeast. Ward Baking Company. 167,087; Apr. 24; Serial No. 148,637; published Dec. 9, 1922.
Bread, Rye, wheat, and French. A. Yost & Son. 167,052; Apr. 24; Serial No. 161,611; published Dec. 26, 1923.
Brushes. Osborn Manufacturing Company. 167,175; Apr. 24; Serial No. 172,010; published Jan. 9, 1923.
Brushes, Bath and tooth. Geo. R. Gibson Co. 167,115; Apr. 24; Serial No. 153,978; published Feb. 6, 1923.
Buckles and resilient belt links. E. Abraham. 167,149; Apr. 24; Serial No. 145,542; published Dec. 12, 1922.
Butter. Laurel Ice & Packing Co. 167,207; Apr. 24; Serial No. 165,295; published Dec. 12, 1922.
Butter. Milton Dairy Company. 167,028; Apr. 24; Serial No. 161,691; published Jan. 30, 1923.
Butter. Purity Creamery Co. 167,199; Apr. 24; Serial No. 162,568; published Dec. 12, 1922.
Butter. Wadley Company. 167,135; Apr. 24; Serial No. 157,243; published Dec. 26, 1922.
Butter. Western Dairy Co. 167,274; Apr. 24; Serial No. 152,052; published Mar. 14, 1922.
Butter and eggs. Green & Company. 167,119; Apr. 24; Serial No. 164,900; published Dec. 19, 1922.
Butter, cheese, and eggs. C. F. Newman. 167,055; Apr. 24; Serial No. 160,772; published Dec. 26, 1923.
Butter, fresh eggs, cheese. S. S. Long & Bro., Inc. 167,188; Apr. 24; Serial No. 157,932; published Jan. 23, 1923.
Cake. F. O. Stone Baking Company. 167,296–1; Apr. 24.
Candy. Maple Products Co. 167,014; Apr. 24; Serial No. 162,498; published Jan. 30, 1923.
Candies, Hard. A. Gustenhoven. 167,301; Apr. 24.
Canned foods. Marshall Canning Company. 167,126; Apr. 24; Serial No. 165,397; published Dec. 12, 1922.
Canned foods. Marshall Canning Company. 167,127; Apr. 24; Serial No. 165,398; published Jan. 30, 1923.
Canned fruits, vegetables, salted peanuts, and rolled oats. Mizell, Murray & Co. 167,272; Apr. 24; Serial No. 152,033; published Dec. 19, 1922.
Canned salmon. Alaska Packers Association. 167,094; Apr. 24; Serial No. 166,804; published Jan. 30, 1923.
Canned tomatoes. W. H. Hamilton. 167,282; Apr. 24; Serial No. 134,364; published Jan. 23, 1923.
Canned vegetables, corn meal, rice, etc. Copps Co. 167,092; Apr. 24; Serial No. 165,916; published Jan. 30, 1923.
Canned vegetables, fruits, and fish, sweet pickles, olives, rolled oats. J. C. Perry & Company. 167,078; Apr. 24; Serial No. 156,401; published Dec. 26, 1922.
Cantaloupes and pears, Fresh. G. M. H. Wagner & Sons. 167,117; Apr. 24; Serial No. 164,790; published Feb. 6, 1923.
Carburetors. Durand & Winfield. 167,294; Apr. 24.
Cards, Playing. Russell Playing Card Co. 167,072; Apr. 24; Serial No. 172,176; published Jan. 30, 1923.
Cereal. Peggy's Health Food Company. 167,213; Apr. 24; Serial No. 164,829; published Jan. 30, 1923.
Cereal, Breakfast. Kehlor Flour Mills Co. 167,120; Apr. 24; Serial No. 164,922; published Dec. 19, 1922.
Cereal, Breakfast. Phospho Food Co. 167,121; Apr. 24; Serial No. 164,950; published Jan. 2, 1923.
Cheese and preserved cheese, Alpina Cheese Co. 167,136; Apr. 24; Serial No. 157,127; published Jan. 30, 1923.
Cheese. Carl Marty and Company. 167,194; Apr. 24; Serial No. 162,432; published Jan. 30, 1923.
Cheese. N. Dorman. 167,209; Apr. 24; Serial No. 165,126; published Jan. 30, 1923.
Cheese. Gerber & Co. 167,133; Apr. 24; Serial No. 158,38; published Jan. 30, 1923.
Cheese. J. L. Kraft & Bros. Co. 167,054; Apr. 24; Serial No. 160,814; published Jan. 30, 1923.
Chests, Tool. C. S. Allen. 167,331; Apr. 24.
Chemicals such as bichromate of potash and bichromate of soda. Mutual Chemical Co. of America. 167,233; Apr. 24; Serial No. 163,939; published Oct. 17, 1922.
Chocolate, cocoas, bonbons, crackers, etc. W. B. Fair. 167,264; Apr. 24; Serial No. 154,080; published Jan. 30, 1923.
Cigar and cigarette holders and pipe mouthpieces. D. A. Schulte, Inc. 167,151; Apr. 24; Serial No. 172,358; published Jan. 30, 1923.
Cigars. Alonso Bros. 167,163; Apr. 24; Serial No. 171,245; published Jan. 9, 1923.
Cigars. Arango y Arango. 167,041; Apr. 24; Serial No. 170,766; published Jan. 16, 1923.
Cigars, La Dez Cigar Co. 167,178; Apr. 24; Serial No. 172,023; published Jan. 9, 1923.
Cigars. M. Valle y Ca., Inc. 167,096; Apr. 24; Serial No. 167,032; published Jan. 9, 1923.
Cigars. H. Noliboff. 167,170; Apr. 24; Serial No. 171,652; published Feb. 6, 1923.
Cinematographic projectors and cameras, plates for fixed projections, etc. Etablissements Continsouza, Société Anonyme. 167,280; Apr. 24; Serial No. 142,754; published Jan. 30, 1923.
Clamps and parts thereof, Hose. Ideal Clamp Mfg. Co. 167,247; Apr. 24; Serial No. 171,322; published Jan. 30, 1923.
Cloth pilers, exhaust fans, rag cutters, etc. B. F. Perkins & Son, Inc. 167,299; Apr. 24.
Cloths and piece goods of wool, worsted, and hair, and combinations of same. Priestleys, Limited. 167,103; Apr. 24; Serial No. 169,422; published Feb. 6, 1923.
Coconut macaroon strip. Standard Baking Company. 167,129; Apr. 24; Serial No. 165,420; published Jan. 30, 1923.
Coffees and teas. V. C. Lindstrom. 167,069; Apr. 24; Serial No. 158,050; published Feb. 6, 1923.

Coffee. Nash Coffee Company. 167,097; Apr. 24; Serial No. 167,188; published Jan. 23, 1923.
Concrete mixers. Badger Wire & Iron Works. 167,314; Apr. 24.
Concrete-mixing machines, brickmaking machines. Concrete Machinery & Supply Co. 167,273; Apr. 24; Serial No. 152,066; published Jan. 16, 1923.
Confection for coating or covering for candy, biscuits, cakes, pastry, etc. White-Stokes Company. 167,027; Apr. 24; Serial No. 161,812; published Jan. 30, 1923.
Confections, Baked. E. D. Brown. 167,196–7; Apr. 24; Serial Nos. 162,473–4; published Jan. 30, 1923.
Confections, ice cream, and ices, Frozen. Tawney Ice Cream Company. 167,066; Apr. 24; Serial No. 159,436; published Jan. 30, 1923.
Cookies. Matthael Baking Co. 167,023; Apr. 24; Serial No. 162,031; published Dec. 12, 1922.
Cookies and macaroons. Mother's Favorite Cookie Company. 167,241; Apr. 24; Serial No. 159,322; published Jan. 30, 1923.
Corn flakes. Price Food Products Corporation. 167,122; Apr. 24; Serial No. 164,951; published Dec. 19, 1922.
Cotton gins, elevators, presses, etc. Murray Company. 167,288; Apr. 24.
Cottonseed cake and meal, salad and psy oils. California Cotton Oil Company. 167,068; Apr. 24; Serial No. 158,293; published Nov. 7, 1922.
Crackers. Fred W. Albrecht Grocery Company. 167,216; Apr. 24; Serial No. 163,662; published Jan. 30, 1923.
Crackers. Pacific Coast Biscuit Company. 167,128; Apr. 24; Serial No. 165,409; published Dec. 12, 1922.
Cream, sweet milk and cream, whip cream, buttermilk, butter. Western Dairy Co. 167,141; Apr. 24; Serial No. 156,814; published December 26, 1922.
Crullers. S. & S. Melloroll Company. 167,021; Apr. 24; Serial No. 162,133; published Dec. 12, 1922.
Curtains, draperies, and open-mesh netted fabric. F. E. Strohmeier. 167,101; Apr. 24; Serial No. 169,091; published Feb. 6, 1923.
Cushions, Game-table. Brunswick-Balke-Collender Company. 167,180–1; Apr. 24; Serial Nos. 172,078–9; published Jan. 30, 1923.
Dishwashing machines. Automatic Dishwasher Co. 167,258; Apr. 24; Serial No. 168,996; published Feb. 6, 1923.
Dolls. M. Browne. 167,167; Apr. 24; Serial No. 171,610; published Jan. 30, 1923.
Dolls. F. O. King. 167,153; Apr. 24; Serial No. 172,598; published Jan. 30, 1923.
Dolls. S. Robert. 167,161; Apr. 24; Serial No. 173,244; published Feb. 6, 1923.
Dolls, Misses Tebbets. 167,071; Apr. 24; Serial No. 172,244; published Jan. 30, 1923.
Doors and windows, Metal-covered. Empire Fire-Proof Door Co. 167,056; Apr. 24; Serial No. 160,756; published Nov. 7, 1922.
Dowels, Ring. Timber Truss Co. of America. 167,220–1; Apr. 24; Serial Nos. 163,365–6; published Feb. 6, 1923.
Drink, Carbonated grape. Good-Grape Company. 167,019; Apr. 24; Serial No. 162,168; published Jan. 16, 1923.
Dunbar Molasses & Syrup Co., New Orleans, La. Table sirup and molasses. 167,090; Apr. 24; Serial No. 165,529; published Feb. 6, 1923.
Eggs. Fairmont Creamery Co. 167,024; Apr. 24; Serial No. 161,983; published Dec. 12, 1922.
Eggs. F. Susie. 167,026; Apr. 24; Serial No. 161,864; published Dec. 12, 1922.
Eggs, Fresh. Colonial Butter & Egg Co. 167,268; Apr. 24; Serial No. 152,606; published Dec. 19, 1922.
Eggs, Fresh. Poultry Producers of Southern California, Inc. 167,130; Apr. 24; Serial No. 158,723; published Nov. 7, 1922.
Eggs, mixed whole eggs, egg yolks, and egg whites, in liquid and frozen form, Fresh. Titman Egg Company. 167,195; Apr. 24; Serial No. 162,467; published Dec. 12, 1922.
Eggs, young chicks, live and dressed poultry, pullets, etc. Queensbury Farms. 167,236; Apr. 24; Serial No. 159,615; published Jan. 30, 1923.
Electrical apparatus, machines, and supplies. Manhattan Electrical Supply Co. 167,102; Apr. 24; Serial No. 169,134; published Feb. 13, 1923.
Electrical condensers. Wireless Specialty Apparatus Company. 167,067; Apr. 24; Serial No. 158,693; published May 9, 1922.
Electrical instruments and appliances, Dials for. Henry Hyman & Co. 167,254; Apr. 24; Serial No. 169,855; published Feb. 6, 1923.
Enamel cleaner. B. Heller & Company. 167,298; Apr. 24.
False faces, toy wigs, etc. Dessart Brothers, Inc. 167,306; Apr. 24.
Feed for chickens. Merchants Supply Company. 167,211; Apr. 24; Serial No. 165,088; published Dec. 19, 1922.
Feed, Mixed horse and mule. Golden Grain Milling Company. 167,238; Apr. 24; Serial No. 159,462; published Jan. 30, 1923.
Feed, Mixed. Pillsbury Flour Mills Company. 167,310; Apr. 24.
Feed, Poultry. Quisenberry Feed Mfg. Co. 167,189; Apr. 24; Serial No. 158,145; published Jan. 2, 1923.
Feed, Poultry. Quisenberry Feed Mfg. Co. 167,190; Apr. 24; Serial No. 158,144; published Nov. 7, 1922.
Feed, Poultry. Quisenberry Feed Mfg. Co. 167,191; Apr. 24; Serial No. 158,145; published Jan. 2, 1923.
Feed, Scratch. Lawrenceburg Roller Mills Co. 167,193; Apr. 24; Serial No. 162,423; published Dec. 12, 1922.
Feed, Stock. Modern Flour Mills. 167,022; Apr. 24; Serial No. 162,128; published Dec. 12, 1922.
Feed, Stock and poultry. M. C. Peters Mill Co. 167,278; Apr. 24; Serial No. 149,929; published Jan. 30, 1923.
Feeds, Scratch, calf, dairy, horse, etc. R. E. Jones Company. 167,277; Apr. 24; Serial No. 150,361; published Dec. 26, 1922.
Feeds, Stock, poultry, and chick. Ballard & Ballard Company. 167,147; Apr. 24; Serial No. 156,074; published Dec. 26, 1922.
Film, Sensitized. Eastman Kodak Company. 167,271; Apr. 24; Serial No. 152,122; published Aug. 1, 1922.
Fishing flies, Artificial. Weber Lifelike Fly Co. 167,304; Apr. 24.
Fishing hooks and leaders. C. Fredricks. 167,165; Apr. 24; Serial No. 171,492; published Jan. 23, 1923.
Fishing rods and reels. H. L. Leonard Rod Co. 167,070; Apr. 24; Serial No. 172,336; published Feb. 6, 1923.
Flour. George E. Keller Laboratories. 167,076; Apr. 24; Serial No. 156,495; published Feb. 6, 1923.
Flour, Corn. P. G. Garza. 167,210; Apr. 24; Serial No. 165,078; published Jan. 30, 1923.
Flour, Self-rising. J. I. Triplett. 167,134; Apr. 24; Serial No. 157,455; published Dec. 19, 1922.
Flour, Self-rising wheat. Ph. H. Postel Milling Co. 167,020; Apr. 24; Serial No. 162,134; published Dec. 12, 1922.
Flour, Wheat. Albers Bros. Milling Co. 167,100; Apr. 24; Serial No. 168,744; published Jan. 23, 1923.
Flour, Wheat. Albert Bros. Milling Co. 167,118; Apr. 24; Serial No. 164,853; published Dec. 19, 1922.
Flour, Wheat. Bernet, Craft and Kauffman Milling Company. 167,144; Apr. 24; Serial No. 156,516; published Feb. 6, 1923.
Flour, Wheat. Boonville Mills Company. 167,184; Apr. 24; Serial No. 162,911; published Dec. 12, 1922.
Flour, Wheat. E. A. Clark & Company. 167,281; Apr. 24; Serial No. 135,038; published Dec. 26, 1922.
Flour, Wheat. Colorado Milling & Elevator Co. 167,267; Apr. 24; Serial No. 152,784; published Dec. 26, 1922.
Flour, Wheat. Colorado Milling & Elevator Co. 167,200; Apr. 24; Serial No. 162,609; published Dec. 12, 1922.
Flour, Wheat. Dunlop Milling Co. 167,062; Apr. 24; Serial No. 160,051; published Dec. 26, 1922.
Flour, Wheat. Federal Mill & Elevator Co. 167,020; Apr. 24; Serial No. 161,680; published Dec. 12, 1922.
Flour, Wheat. Globe Grain & Milling Co. 167,124–5; Apr. 24; Serial Nos. 165,369–70; published Dec. 12, 1922.
Flour, Wheat. Holland O'Neal Milling Co. 167,140; Apr. 24; Serial No. 156,890; published Dec. 26, 1922.
Flour, Wheat. Isbert-Hincke Milling Company. 167,146; Apr. 24; Serial No. 156,161; published Jan. 30, 1923.
Flour, Wheat. Keystone Flour Company. 167,219; Apr. 24; Serial No. 163,336; published Jan. 30, 1923.
Flour, Wheat. W. J. McDonald. 167,018; Apr. 24; Serial No. 162,191; published Jan. 30, 1923.
Flour, Wheat. Midland Flour Milling Co. 167,201; Apr. 24; Serial No. 162,639; published Dec. 12, 1922.
Flour, Wheat. Midland Flour Milling Co. 167,202; Apr. 24; Serial No. 162,654; published Dec. 12, 1922.
Flour, Wheat. Morrow Milling Company. 167,083; Apr. 24; Serial No. 154,456; published Jan. 30, 1923.
Flour, Wheat. Ponge-Wall Milling Co. 167,131; Apr. 24; Serial No. 157,772; published Dec. 19, 1922.
Flour, Wheat. E. G. Sanders. 167,063; Apr. 24; Serial No. 160,034; published Dec. 19, 1922.
Flour, Wheat. Stafford County Flour Mills Co. 167,192; Apr. 24; Serial No. 158,156; published Nov. 7, 1922.
Flour, Wheat. Stanard-Tilton Milling Co. 167,098; Apr. 24; Serial No. 167,430; published Dec. 12, 1922.
Flour, Wheat. Stroud-Dockum Grocery Co. 167,016; Apr. 24; Serial No. 162,354; published Jan. 30, 1923.
Flour, Wheat. Texas Star Flour Mills. 167,064; Apr. 24; Serial No. 159,896; published Dec. 26, 1922.
Flour, Wheat. Washburn-Crosby Co. 167,143; Apr. 24; Serial No. 156,670; published Dec. 19, 1922.
Flour, Wheat. Washburn-Crosby Co. 167,263; Apr. 24; Serial No. 155,721; published Dec. 19, 1922.
Flour, Wheat. Wichita Flour Mills Co. 167,203–4; Apr. 24; Serial Nos. 162,654–5; published Jan. 23, 1923.
Flour, Wheat. F. Wolf. 167,205; Apr. 24; Serial No. 162,656; published Jan. 30, 1923.
Flour, Winter-wheat. J. Grossman. 167,239; Apr. 24; Serial No. 159,356; published Feb. 6, 1923.
Food, Poultry. Standard Lime & Stone Co. 167,060; Apr. 24; Serial No. 160,305; published Feb. 6, 1923.
Foods for horses, cattle, calves, ducks, etc. Pratt Food Co. 167,145; Apr. 24; Serial No. 156,339; published Dec. 19, 1922.
Footballs, basket balls, baseballs, bats, gloves, etc. P. Goldsmith Sons Company. 167,104; Apr. 24; Serial No. 169,478; published Jan. 9, 1923.
Furniture sliding shoes. Onward Manufacturing Company. 167,262; Apr. 24; Serial No. 167,144; published Feb. 6, 1923.
Game. M. C. Neuner. 167,089; Apr. 24; Serial No. 142,162; published Jan. 9, 1923.
Game, Parlor board. Rosenwald-Milius Co. 167,035; Apr. 24; Serial No. 170,955; published Jan. 16, 1923.
Games, Card. Cincinnati Game Company. 167,308; Apr. 24.

Garage and shop equipment. Weaver Manufacturing Company. 167,317; Apr. 24.
Gas brackets, and cocks, T's, elbows, and gas-range cocks, Brass fittings for. Federal Manufacturing Co. 167,250; Apr. 24; Serial No. 170,681; published Feb. 6, 1923.
Gears or other articles from shafts and cylinder-boring machines, Machines for forcing. E. C. Coston. 167,276; Apr. 24; Serial No. 150,800; published Jan. 30, 1923.
Gelatin. Puritan Gelatin Company. 167,077; Apr. 24; Serial No. 156,403; published Jan. 30, 1923.
Glass, Sheet. Pennsylvania Wire Glass Company. 167,043; Apr. 24; Serial No. 170,596; published Jan. 30, 1923.
Golf balls. E. E. Marshall. 167,039–40; Apr. 24; Serial Nos. 170,883–4; published Jan. 9, 1923.
Golf clubs and balls. Crawford, McGregor & Canby Company. 167,065; Apr. 24; Serial No. 159,558; published Jan. 9, 1923.
Gum, Chewing. Wm. Wrigley Jr. Company. 166,091; Apr. 24; Serial No. 165,734; published Feb. 6, 1923.
Hair preparation. E. Burnham, Inc. 167,319; Apr. 24.
Hams and bacon. Corkran, Hill & Co. 167,061; Apr. 24; Serial No. 160,235; published Dec. 26, 1922.
Hobbyhorses, children's automobiles, and aeroplane toys. J. K. Selenkow. 167,080; Apr. 24; Serial No. 156,031; Feb. 6, 1923.
Insect exterminator, Powder for. H. M. Ensley. 167,285; Apr. 24.
Jacks, Lifting and screw. Schmick Gear & Screw Company. 167,251; Apr. 24; Serial No. 170,672; published Jan. 30, 1923.
Jelly, apple butter, and fruit preserves. Blanke-Baer Extract & Preserving Company. 167,111; Apr. 24; Serial No. 163,316; published Jan. 30, 1923.
Jewelry articles. R. W. Schmidt. 167,323; Apr. 24.
Leather goods. Charles K. Cook Company. 167,336; Apr. 24.
Liniment for external use for rheumatism, sore throat, etc. Goodrich Drug Company. 167,228; Apr. 24; Serial No. 169,633; published Feb. 13, 1923.
Liniments. Dr. Earl S. Sloan Incorporated. 167,295; Apr. 24.
Liquid compound in the nature of a furniture and automobile polish. Wonder Gloss Laboratories. 167,186; Apr. 24; Serial No. 163,233; published Jan. 9, 1923.
Liquid-level indicators. Porter Electric Carbureter, Inc. 167,226; Apr. 24; Serial No. 169,777; published Jan. 30, 1923.
Liquid-measuring and level-indicating apparatus. Dobbie McInnes & Clyde, Ltd. 167,224; Apr. 24; Serial No. 157,413; published Feb. 6, 1923.
Malt and hops compound for beverage purposes. A. M. Paulero. 167,173; Apr. 24; Serial No. 171,948; published Jan. 30, 1923.
Malt extracts. S. Katz. 167,179; Apr. 24; Serial No. 172,048; published Jan. 30, 1923.
Malt extracts, Concentrated liquid. Malt-Diastase Company. 167,086; Apr. 24; Serial No. 151,633; published Oct. 11, 1921.
Margarine, Nut. E. F. Drew & Co. 167,215; Apr. 24; Serial No. 163,619; published Dec. 19, 1922.
Matches, Book. World Match Corporation. 167,045; Apr. 24; Serial No. 170,321; published Jan. 30, 1923.
Mattresses, Cotton. W. W. Pool. 167,315; Apr. 24.
Matzos. B. Manischewitz Company. 167,289; Apr. 24.
Meal, Oil. Spencer Kellogg & Sons, Inc. 167,208; Apr. 24; Serial No. 165,138; published Dec. 19, 1922.
Measuring instrument. Map- Lineaweaver and Swift. 167,218; Apr. 24; Serial No. 158,781; published Dec. 5, 1922.
Measuring and scientific appliances. Foxboro Company. 167,287; Apr. 24.
Medicinal preparation for nervousness, anæmia, etc. L. A White. 167,235; Apr. 24; Serial No. 161,215; published Sept. 19, 1922.
Milk, Condensed. Helvetia Milk Condensing Company. 167,303; Apr. 24.
Milk, Fresh. Matthews Selected Dairies Company. 167,237; Apr. 24; Serial No. 159,603; published Dec. 26, 1922.
Mushroom sauce, olive oil, dry mushrooms, concentrated paste, etc. Podesta Import Company. 167,084; Apr. 24; Serial No. 152,580; published Dec. 26, 1922.
Nut locks. Shakeproof Screw & Nut Lock Company. 167,320; Apr. 24.
Nuts, Mixed. Graham Co. Inc. 167,333; Apr. 24.
Oats, Rolled. Wimberley Grocer Co. 167,123; Apr. 24; Serial No. 164,984; published Dec. 19, 1922.
Office supplies. Aktiebolaget Galco. 167,088; Apr. 24; Serial No. 147,149; published Feb. 6, 1923.
Oil containers. J. W. Jackson. 167,337; Apr. 24.
Oleomargarine. Morris & Company. 167,112–13; Apr. 24; Serial Nos. 163,346–7; published Dec. 19, 1922.
Oleomargarine. E. A. Stevenson & Co. 167,025; Apr. 24; Serial No. 161,891; published Dec. 12, 1922.
Ophthalmic mountings and parts thereof. Stevens & Company. 167,257; Apr. 24; Serial No. 169,142; published Feb. 6, 1923.
Paints, Ready-mixed. Bradley & Vrooman Company. 167,327; Apr. 24.
Paints, varnishes, stains, etc. Black Diamond Paint & Varnish Works. 167,332; Apr. 24.
Pans, Baking. Edward Katzinger Company. 167,242; Apr. 24; Serial No. 173,192; published Feb. 6, 1923.
Pans, Baking. Edward Katzinger Company. 167,245–6; Apr. 24; Serial Nos. 171,577–8; published Feb. 6, 1923.
Pantasote, leather, and rubber, Dressing and cleaner for. J. L. Hogland. 167,286; Apr. 24.
Paper, Bond, ledger, and writing. Poland Paper Company. 167,154; Apr. 24; Serial No. 172,651; published Feb. 6, 1923.
Paper, Book. West Virginia Pulp & Paper Co. 167,105; Apr. 24; Serial No. 169,570; published Jan. 30, 1923.
Paper, Manifold. Esleeck Manufacturing Co. 167,309; Apr. 24.
Paper, Toilet, wrapping, book, and printing. Messinger Paper Company. 167,156; Apr. 24; Serial No. 172,998; published Feb. 6, 1923.
Paper, Toilet, wrapping, book, and printing. Messinger Paper Company. 167,157; Apr. 24; Serial No. 173,000; published Feb. 6, 1923.
Paper, Sensitized blue-print. New York Blue Print Paper Company. 167,248; Apr. 24; Serial No. 171,182; published Feb. 6, 1923.
Paper, Typewriter. W. H. King, jr. 167,059; Apr. 24; Serial No. 160,496; published Nov. 14, 1922.
Paper, Writing. Fox River Paper Company. 167,152; Apr. 24; Serial No. 172,418; published Feb. 6, 1923.
Papeteries, writing and typewriting tablets, writing paper, and envelopes. White & Wyckoff Manufacturing Company. 167,158; Apr. 24; Serial No. 173,115; published Feb. 6, 1923.
Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. White & Wyckoff Manufacturing Company. 167,159; Apr. 24; Serial No 173,117; published Feb. 6, 1923.
Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. White & Wyckoff Manufacturing Company. 167,160; Apr. 24; Serial No. 173,119; published Feb. 6, 1923.
Pastry, fruit tarts and pies. H. Zincke. 167,212; Apr. 24; Serial No. 164,847; published Jan. 30, 1923.
Pencils, Lead for. Nitro Pencil Company. 167,155; Apr. 24; Serial No. 172,897; published Feb. 6, 1923.
Pencils, Magazine. R. & G. Co. 167,079; Apr. 24; Serial No. 155,830; published Feb. 6, 1923.
Perfumery, toilet powder, rouge, etc. A. P. Babcock Company. 167,300; Apr. 24.
Phonographs, Vocaltone-Pianotina Co. 167,322; Apr. 24.
Photographic enlargement easels. P. Williams. 167,148; Apr. 24; Serial No. 152,973; published Jan. 30, 1923.
Photographic negatives, Mounts for. I. Kulik. 167,031; Apr. 24; Serial No. 170,143; published Jan. 16, 1923.
Pianos, violins, guitars, banjos, and talking machines. Goldsmith's Music Store Co. 167,326; Apr. 24.
Pianos, violins, guitars, banjos, and talking machines. Goldsmith's Music Store Co. 167,328; Apr. 24.
Pickles, catchup, tomato paste, vinegar, mustard, etc. Williams Food Co. 167,053; Apr. 24; Serial No. 161,603; published Feb. 6, 1923.
Picture films, photographic transparencies, raw films, etc., Motion. Dura Film Protector Co. 167,253; Apr. 24; Serial No. 170,477; published Feb. 6, 1923.
Playground climbing frames. Junglegym, Inc. 167,081; Apr. 24; Serial No. 155,408; published Jan. 30, 1923.
Polishing and cleaning automobiles, pianos, etc., Preparation for. J. C. Wilmot. 167,073; Apr. 24; Serial No. 172,139; published Jan. 9, 1923.
Potatoes and dairy feeds. South Jersey Farmers Exchange. 167,185; Apr. 24; Serial No. 162,960; published Jan. 2, 1923.
Potatoes, Sweet. Alexandria Potato Curing Company. 167,015; Apr. 24; Serial No. 162,475; published Jan. 30, 1923.
Poultry and eggs. White Cedar Farm. 167,240; Apr. 24; Serial No. 159,333; published Dec. 19, 1922.
Poultry and eggs, Dressed. Seymour Packing Company. 167,137; Apr. 24; Serial No. 156,929; published Jan. 23, 1923.
Poultry and eggs, Dressed. Seymour Packing Company. 167,138; Apr. 24; Serial No. 156,927; published Jan. 23, 1923.
Poultry, Dressed. Seymour Packing Company. 167,139; Apr. 24; Serial No. 156,926; published Jan. 23, 1923.
Poultry, Dressed. Seymour Packing Company. 167,223; Apr. 24; Serial No. 156,928; published Jan. 23, 1923.
Powder puffs. Bonnie-B Company. 167,164; Apr. 24; Serial No. 171,240; published Feb. 6, 1923.
Powders, vanishing cream, cold cream, rouge, etc., Sachet and face. Marshall Field & Company. 167,227; Apr. 24; Serial No. 169,641; published Feb. 6, 1923.
Preparation for preventing perspiration and odor. Delrose Laboratories. 167,232; Apr. 24; Serial No. 164,403; published Oct. 24, 1922.
Preparation to be used in the manufacture of floor paints, etc., and as a finishing varnish. Keystone Varnish Company. 167,338; Apr. 24.
Preparations for rejuvenating the hair, destroying dandruff, etc. C. C. Wiegand. 167,296; Apr. 24.
Radio receiving sets. Jackson & Finkenaur. 167,252; Apr. 24; Serial No. 170,529; published Jan. 30, 1923.
Radio receiving sets and antennæ and parts thereof, head phones, etc. Perry Desjardins & Temple Co. 167,259; Apr. 24; Serial No. 168,000; published Jan. 23, 1923.

Radio receiving sets, parts thereof, antennæ and parts thereof, head phones, etc. Perry, Desjardins & Temple Co. 167,260; Apr. 24; Serial No. 167,999; published Feb. 6, 1923.
Radio tuning coil. Radiogen Corporation. 167,256; Apr. 24; Serial No. 169,184; published Jan. 30, 1923.
Ribbons. Mapele Silk Manufacturing Co. 167,093; Apr. 24; Serial No. 166,781; published Jan. 30, 1923.
Ribbons in the piece. Johnson, Cowdin & Co. 167,075; Apr. 24; Serial No. 156,834; published Jan. 30, 1923.
Sadirons. B. S. Loeb. 167,325; Apr. 24.
Salt, Independent Salt Co. 167,318; Apr. 24.
Salt, Table. Inland Crystal Salt Company of Utah. 167,321; Apr. 24.
Sanitary belts and shields. H. Usdin. 167,042; Apr. 24; Serial No. 170,598; published Jan. 9, 1923.
Saw-handle trimmings. Beaton & Cadwell Manufacturing Company. 167,261; Apr. 24; Serial No. 167,261; published Feb. 6, 1923.
Shortening or fat. Southern Cotton Oil Company. 167,017; Apr. 24; Serial No. 162,215; published Jan. 30, 1923.
Shovels, scoops, spades, posthole diggers, and wooden handles. Baldwin Tool Works. 167,230; Apr. 24; Serial No. 166,644; published Jan. 30, 1923.
Silk piece goods. Golding Fabrics Corporation. 167,044; Apr. 24; Serial No. 170,376; published Jan. 30, 1923.
Silk piece goods. Robinson Silk Company. 167,046–7; Apr. 24; Serial Nos. 170,310–11; published Jan. 30, 1923.
Silks in the piece, Broad. Stehli Silks Corporation. 167,108; Apr. 24; Serial No. 169,789; published Jan 30, 1923.
Sirups for use in making beverages. S. L. Goldman. 167,169; Apr. 24; Serial No. 171,635; published Jan. 30, 1923.
Soap. W. Polatsik. 167,283; Apr. 24.
Spaghetti, cheese, and sauce. Merolla Ricciardi and Salomone Corporation. 167,182; Apr. 24; Serial No. 162,842; published Jan. 30, 1923.
Springs, Bed. Kinney-Rome Company. 167,302; Apr. 24.
Striker plates and locks. Franklin Williams, Inc., of N. J. 167,279; Apr. 24; Serial No. 143,524; published Jan. 30, 1923.
Table tops, Metal. Vitreous Steel Products Company. 167,313; Apr. 24.
Tablets for relief of headache, neuralgia, grippe, etc. M. J. Ryan. 167,229; Apr. 24; Serial No. 168,071; published Jan. 23, 1923.
Tablets, Washing. F. A. Williamson Manufacturing Company. 167,311; Apr. 24.
Tankards and trays, Metal. L. H. Spencer. 167,225; Apr. 24; Serial No. 158,456; published Jan. 30, 1923.
Thread and yarn, Cotton. Manhasset Manufacturing Company. 167,038; Apr. 24; Serial No. 170,889; published Jan. 30, 1923.
Threads, Manufacturers Supplies Company. 167,329–30; Apr. 24.
Tires, Inner tubes for pneumatic, cord, and fabric. Columbia Tire & Rubber Company. 167,142; Apr. 24; Serial No. 156,776; published Mar. 14, 1922.
Tobacco, Leaf. Suhling & Co. 167,176–7; Apr. 24. Serial Nos. 172,019–20; published Jan. 9, 1923.
Tobacco, Smoking. Ardath Tobacco Company. 167,174; Apr. 24; Serial No. 171,981; published Jan. 9, 1923.
Toilet preparations. Perkins Products Co. 167,231; Apr. 24; Serial No. 165,411; published Jan. 30, 1923.
Toilet water. W. J. Bush & Co. Inc. 167,292–3; Apr. 24.
Toothbrushes. J. O. McCall. 167,172; Apr. 24; Serial No. 171,810; published Jan. 9, 1923.
Toothbrushes. William T. Palmer & Company. 167,032; Apr. 24; Serial No. 171,183; published Jan. 9, 1923.
Tooth paste. Sears, Roebuck and Co. 167,305; Apr. 24.
Toy banks. John Hugo Manufacturing Company. 167,114; Apr. 24; Serial No. 163,519; published Jan. 30, 1923.
Toy wagons, Children's. The Fair. 167,034; Apr. 24; Serial No. 170,973; published Feb. 6, 1923.
Toys. Magi-Graph Co. 167,033; Apr. 24; Serial No. 171,092; published Jan. 16, 1923.
Toys. Metallic Industries, Inc. 167,011; Apr. 24; Serial No. 162,757; published Jan. 30, 1923.
Tractors, Gas, gasoline, oil, and steam. G. F. H. Corporation. 167,266; Apr. 24; Serial No. 152,919; published Feb. 6, 1923.
Transparencies, Colored. Animated Advertising Corporation. 167,316; Apr. 24.
Travelers, Ring and twister. National Ring Traveler Co. 167,249; Apr. 24; Serial No. 170,779; published Jan. 30, 1923.
Trays, match-box holders, Ash. Feldt Manufacturing Company. 167,166; Apr. 24; Serial No. 171,532; published Jan. 30, 1923.
Urns, sugar and fruit bowls, etc., Coffee, chocolate, water, and other. Carl H. Arwe Manufacturing Company. 167,255; Apr. 24; Serial No. 169,742; published Feb. 6, 1923.
Varnish binder and varnish, Rapid-drying. John A. Steen Varnish Company. 167,187; Apr. 24; Serial No. 153,371; published Nov. 29, 1922.
Velours in piece goods, curtains, table scarfs, and pillow slips. American Pile Fabric Company. 167,324; Apr. 24.
Wafers, Health. F. U. Lassen. 167,269; Apr. 24; Serial No. 152,510; published Dec. 26, 1922.
Wafers, Sugar. Iten Biscuit Co. 167,012; Apr. 24; Serial No. 162,740; published Jan. 30, 1923.
Wafers, Sugar. Union Biscuit Co. 167,110; Apr. 24. Serial No. 162,785; published Dec. 12, 1922.
Watches, watch movements, and parts of the same. Hipp. Didisheim Company. 167,335; Apr. 24.
Water, Mineral. G. Musante. 167,307; Apr. 24.
Weighing apparatus, recording mechanism for weighing mechanism, etc., Automatic and continuous. Merrick Scale Mfg. Company. 167,234; Apr. 24. Serial No. 162,188; published Jan. 30, 1923.
Weighing machines. E. Edtbauer & Co. 167,150; Apr. 24; Serial No. 144,669; published Jan. 30, 1923.
Windshield cleaners. Trico Products Corporation. 167,037; Apr. 24; Serial No. 170,909; published Feb. 6, 1923.
Windows, glass, cut glass, and skylights, Cleaner for. B. Heller & Company. 167,297; Apr. 24.
Window wipers. O. F. Keydel. 167,058; Apr. 24; Serial No. 160,612; published Feb. 6, 1923.
Yarn. Fireside Yarns Company. 167,050; Apr. 24; Serial No. 161,676; published Feb. 6, 1923.
Yeast, Yeast food of mineral salts and flour, malt extract, etc. Ward Baking Company. 167,051; Apr. 24; Serial No. 161,661; published Jan. 30, 1923.

ALPHABETICAL LIST OF LABELS.

Absorbine. For Healing Antiseptic Liniment for Cuts, Chafes, and Bruises. W. F. Young, Inc. 25,868; Apr. 24.
Bevis. For Salt. Bevis Rock Salt Co. 25,847; Apr. 24.
Bromo. For Headache Capsules. N. V. Kroeze. 25,861; Apr. 24.
Cleen-Made. For Alimentary Paste Products, Such as Macaroni. J. P. Weidenhamer. 25,867; Apr. 24.
Eleise Toy Furniture 'You Build It' Instructive—Educational—Entertaining. For Sets of Toy Furniture. C. J. Kern. 25,850; Apr. 24.
Golden Quinine. For Hair Tonic. T. H. Nell. 25,863; Apr. 24.
Hovden's. For Sardines. K. Hovden Co. 22,857; Apr. 24.
Inland Chowder. For Chowder Made from Combination of Various Meats and Vegetables. C. W. McMorran. 25,862; Apr. 24.
Janet Real Human Hair Net. For Hair Nets. N. B. Cohen & Bro. 25,851; Apr. 24.
King Tut. For Wrapper for a Candy Confection. Croft & Allen Company. 25,853; Apr. 24.
King Tut Shirt. For Shirts and Boxes Containing Shirts. Oppenheim Oberndorf & Co. Inc. 25,865; Apr. 24.
Kro Mor. For Tomatoes. Defiance Grocery Company. 25,854; Apr. 24.
Lemane. For Porcelain and Enamel. New York Vitreous Enamel Products Corporation. 25,864; Apr. 24.
Nutty Notion Nougat. For Candy. H. Dilas. 25,855; Apr. 24.
Portola. For Sardines. K. Hovden Co. 25,856; Apr. 24.
R. S. V. P. For Candy. Robert A. Johnston Co. 25,858; Apr. 24.
Rainbow. For Salt. Bevis Rock Salt Co. 25,848; Apr. 24.
Real Human Hair Net. For Hair Nets. N. B. Cohen & Bro. 25,849–50; Apr. 24.
Real Human Hair Net. For Hair Nets. N. B. Cohen & Bro. 25,852; Apr. 24.
Scottie. For 'Peas. A. Kickbusch Grocery Company. 25,860; Apr. 24.
Silver Cap. For Cigars. M. Stern. 25,866; Apr. 24.

ALPHABETICAL LIST OF PRINTS.

Father John's Medicine No Drugs. For Father John's Medicine. Carleton & Hovey Company. 6,668; Apr. 24.

Fulling Scouring Perfecsol. For Greases for Treating Textile Fabrics. U. S. Oil Company. 6,674; Apr. 24.

Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. Hartmann Trunk Company. 6,669–71; Apr. 24.

Veedol 1923. For Oil. Tide Water Oil Sales Corporation. 6,673; Apr. 24.

Volta Powder. For Medicinal Preparation—Namely a Powder for the Treatment of Rheumatism. Volta Co. of America, Inc. 6,675; Apr. 24.

Where the Finest Coffee Flavor Comes From. For Coffee. Hills Bros. 6,672; Apr. 24.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abrasives. A. P. Munning & Co. 166,312; Apr. 24.

Antimony, cadmium sulphides, arsenic sulphides, chromo oxides. Typke & King Ltd. 165,168; Apr. 24.

Apples, Fresh. Elk Mountain Orchard Co. 166,356; Apr. 24.

Arch supports. Francis Rogers & Sons. 172,557; Apr. 24.

Automobile bodies, Polishing compound for. J. H. Laidlaw. 149,592; Apr. 24.

Automobile radiators and cooling systems, Preparation to clean, etc. A. P. Heinze. 138,168; Apr. 24.

Automobile top dressing. J. H. Morrill. 173,360; Apr. 24.

Automobile transmissions, Lining for. Standard Motor Parts Company. 175,813; Apr. 24.

Automobiles, Combined pump and fan attachment for. S & G Manufacturing Company. 170,508; Apr. 24.

Bacon. Beech-Nut Packing Company. 162,798; Apr. 24.

Bars and insulated wire cable, and cordage for electrical purposes. American Copper Products Corporation. 160,685; Apr. 24.

Batteries and parts thereof, Storage. Willard Storage Battery Company. 163,757; Apr. 24.

Batteries, Electric storage. A. Setzer. 164,129; Apr. 24.

Bicycles, tricycles, motor trucks, etc. Humber Limited. 154,513; Apr. 24.

Blankets. O. A. Hale & Co. 174,693; Apr. 24.

Blueberry plants. Joseph J. White, Inc. 172,458. Apr. 24.

Bluing paddles. F. G. Mitchell. 173,334; Apr. 24.

Boiler and heater, Combined. American Radiator Company. 154,073; Apr. 24.

Boots and shoes. V. K. & A. H. Jones & Thomas Co. 173,357; Apr. 24.

Boots, shoes and slippers. Alfred Hale Rubber Company. 173,314; Apr. 24.

Bottle containers or cases. Defiance Pressed Steel Company. 175,714; Apr. 24.

Brassières. Benjamin & Johnes. 170,861; Apr. 24.

Buffing rouge used in the buffing and polishing trade. A. P. Munning & Co. 174,321–4; Apr. 24.

Buffing rouge used in the buffing and polishing trade. A. P. Munning & Co. 174,792–3; Apr. 24.

Bungs. United States Bung Mfg. Co. 162,909; Apr. 24.

Burner drums. Cleveland Metal Products Company. 161,302; Apr. 24.

Candies. D. Auerbach and Sons. 173,737; Apr. 24.

Candy. F. L. Berg. 173,289; Apr. 24.

Candy. A. G. Morse Company. 173,438; Apr. 24.

Candy. Sisco Bros. Candy Co. 168,493; Apr. 24.

Candy. U. R. S. Candy Stores, Inc. 168,502; Apr. 24.

Candy and peppermint lozenges. Sally Mint Company. 169,185; Apr. 24.

Candy bars. Fort Dearborn Candy Company. 160,801; Apr. 24.

Candies. Glistridis, Fresso & Co. 177,183; Apr. 24.

Canned baked beans with pork. Ehmann Olive Company. 168,350; Apr. 24.

Canned fruits. Geo. E. Hyde & Co. Inc. 168,413; Apr. 24.

Canned fruits. Thomas Body Co. 173,792; Apr. 24.

Canned fruits and vegetables. F. B. Neuhoff. 173,657; Apr. 24.

Canned fruits and vegetables. F. J. Tyler. 162,328; Apr. 24.

Canned preserved fruits, jams, jellies, and fruit sirups. San Francisco Breweries, Ltd. 167,368; Apr. 24.

Cans and cans used for packing and shipping ice cream, Milk-shipping. Des Lauriers Metal Products Co. Inc. 176,166; Apr. 24.

Cantaloupes. Dawson Edwards Company. 160,876; Apr. 24.

Cantaloupes. J. T. John Company. 167,569; Apr. 24.

Caoutchouc milk. F. R. Henderson & Co. 172,533; Apr. 24.

Carbon black. Godfrey L. Cabot, Inc. 176,067; Apr. 24.

Carbon black. Godfrey L. Cabot, Inc. 176,069–71; Apr. 24.

Cards and educational posters, Advertising. American Banking Machine Corporation. 173,948; Apr. 24.

Cards, Playing. Russell Playing Card Co. 177,109; Apr. 24.

Cartoon title. Public Ledger Company. 172,900; Apr. 24.

Cartoons, advertising cartoons, and illustrations. International Association of Machinists. 158,121; Apr. 24.

Cartoons and illustrations used for advertising purposes. B. Reese. 173,209; Apr. 24.

Casters, Sliding. International Supply Company. 171,697; Apr. 24.

Catalogue section. T. W. Wood & Sons. 174,682; Apr. 24.

Chains for personal adornment. Forstner Chain Corporation. 139,118; Apr. 24.

Chains, Sheet-metal. Smith & Egge Manf'g Co. 173,447; Apr. 24.

Chemical used as a flux. Consolvo Manufacturing Company. 172,664; Apr. 24.

Chocolates. Great Atlantic and Pacific Tea Company. 173,417; Apr. 24.

Chocolates and candies. E. Greenfield's Sons. 170,380–1; Apr. 24.

Cigarettes. Western Tobacco Company. 176,236; Apr. 24.

Cigars. Otto Eisenlohr & Bros. Incorporated. 177,477; Apr. 24.

Clay and paste for the complexion. S. Markman. 162,941; Apr. 24.

Cleaner, Dry. Davis Chemical Company. 152,834; Apr. 24.

Cleaning fluid. Glo-Tex Company. 173,763; Apr. 24.

Cleanser for rugs, carpets, etc. J. M. Hibler. 171,019; Apr. 24.

Clothes-supporting racks. F. W. Hennessy. 172,836; Apr. 24.

Coal, Steam and domestic. Virginia Blue Gem Coal Corporation. 175,691; Apr. 24.

Coats, suits, dresses, outer skirts, blouses, and hats, Ladies'. F. M. Burns. 175,381; Apr. 24.

Compound for treating influenza, grippe, etc. J. T. Mason. 174,317; Apr. 24.

Compound for treating rheumatism and diseases of the blood. A. G. De Brule. 174,295; Apr. 24.

Compound having the appearance of putty. Products Mfg. & Sales Co. 167,686; Apr. 24.

Concrete construction, Floor clips for fastening wooden floors or the like to a. Bull Dog Floor Clip Company. 160,480; Apr. 24.

Conduits for electrical purposes, Fiber. Brown Company. 175,709; Apr. 24.

Confections comprising chocolates, bonbons, etc. Roach Tisdale & Co. 173,534; Apr. 24.

Corsets. Mme. Irene. 169,361; Apr. 24.

Corsets, brassières, corset covers, waists, and underwear. Kops Bros. 167,987; Apr. 24.

Corsets, girdles, bandeaux, and brassières. Owego Corset Company. 172,899; Apr. 24.

Cotton piece goods. Cohn Hall Marx Co. 175,302; Apr. 24.

Cotton piece goods. Hunter Manufacturing & Commission Co. 175,314; Apr. 24.

Cream, Toilet. L. I. Coggins. 167,972; Apr. 24.

Cream, Vanishing and massage. A. J. Krank Mfg. Co. 173,500; Apr. 24.

Deodorant. J. T. Gallagher. 174,239; Apr. 24.

Dolls. L. B. Kelley. 175,660; Apr. 24.

Dolls. F. O. King. 177,228; Apr. 24.

Drafting instruments. E. Z. Lesh. 136,377; Apr. 24.

Electric lights for automobiles, etc., and parts thereof. Radio-Lite, Inc. 172,394; Apr. 24.

Electric stoves, heaters, sadirons, etc. A. J. Lindemann & Hoverson Company. 167,575; Apr. 24.

Electric vaporizers. Kase Electric Company. 172,421; Apr. 24.

Electrical control apparatus. Dalton, Whittier, True Company. 174,201; Apr. 24.

Emulsion petroleum. Orchard Drug Co. 165,807–8; Apr. 24.

Engines, Ignition-timing devices for internal-combustion. Ecometer Manufacturing Company. 151,151; Apr. 24.

Enzyme substances of vegetable fungus. Takamine Laboratory, Inc. 147,806; Apr. 24.

Fire brick, high-temperature cements, fire-clay tile, etc. Smith-Beal Fire Brick Co. 170,904; Apr. 24.

Fishlines. Bevin-Wilcox Line Company. 175,595; Apr. 24.

Footwear. Oppenheim, Collins & Company, New York, Inc. 173,001; Apr. 24.

Fruits and ice cream, Frozen. W. A. Davis. 167,767; Apr. 24.

Fruits and vegetables, Fresh. Illinois Fruit Exchange. 167,641; Apr. 24.

Fruits and vegetables, Fresh deciduous. T. S. Smith. 174,038; Apr. 24.

Fur skins. Cassileth & Schwartz. 169,754; Apr. 24.

Gems and stones, Reproductions of precious and semi-precious. Jos. H. Meyer Bros., Inc. 164,931–2; Apr. 24.

Generators for producing gas, gas cartridges, and parts thereof, etc. Thermalene Gas Corporation. 171,823; Apr. 24.

Glass, Chemical compound for etching. McKay Company. 174,091; Apr. 24.

Goatskins, colt and horse hides, kips, and cow sides. C. A. Reynolds. 174,592; Apr. 24.

Golf bags. Winchester Company. 176,055; Apr. 24.

Golf clubs. Braw Laddie Golf Company. 176,062; Apr. 24.

Golf-stroke practice and exercising device. A. W. Miller. 176,637; Apr. 24.

Hair, Human and animal. L. Levussove. 162,751; Apr. 24.

Hair tonic. Womble Chemical Company. 174,714; Apr. 24.

Hair tonic and fixative. A. J. Krank. 173,193; Apr. 24.

Hammers, Electric. National Electric Manufacturing Company. 175,881; Apr. 24.

Hand bags and pocketbooks, Ladies'. J. Cyganiewicz. 175,071; Apr. 24.

Handkerchiefs. Silberstein, Rosen & Sons, Inc. 173,304; Apr. 24.

Hats. Knox Hat Company. 171,806; Apr. 24.

Hats and caps, Men's and boys'. Charles S. Merton & Co. 173,778; Apr. 24.

Hats, Men's. Hutt & Wasserman, Inc. 172,837; Apr. 24.

Hats, Men's winter. Parker-Bridget Company. 172,238; Apr. 24.

Headlights and flood lights, Electric. Berkeley Light Corporation. 137,513; Apr. 24.

Heels, Shoe. C. H. Coulson. 172,262; Apr. 24.

Hinges. Way Works, Incorporated. 174,549; Apr. 24.

Honey, marmalade, candied fruits, peanut roll, etc. E. A. Wilcox. 169,883; Apr. 24.

Hops. J. Sonnenschein Hop Company. 173,149; Apr. 24.

Hose supporters, garters, belts, etc. Calhoun, Robbins & Co. 172,201; Apr. 24.

Hosiery, Women's. Marshall Field & Company. 158,115; Apr. 24.

Ice cream cones made of milk chocolate. H. L. Scott. 170,043; Apr. 24.

Index and sales-data book, Combination. A. G. McMillan. 174,318; Apr. 24.

Inks, Printing. Jaenecke-Ault Company. 168,135; Apr. 24.

Insecticide and germicide. Can-Ho-Lab. Chemical Co. 173,401; Apr. 24.

Insecticide for use in exterminating rodents and insects. G. W. Roller. 173,364; Apr. 24.

Insecticide for use in exterminating rodents, etc. J. J. Seidage. 173,366; Apr. 24.

Insecticides, disinfectants, and deodorizers. Kilzol Products Company. 171,274; Apr. 24.

Insulation purposes, Treated and untreated tapes for electrical. Mica Insulator Company. 173,844; Apr. 24.

Jellies, caramel toffees, and other boiled-sugar goods. Walter Robertson & Son Ltd. 167,690; Apr. 24.

Jewelry. L. Reubenstone. 169,423; Apr. 24.

Knife switches, panel boards, switchboards, and fuse reducers. Plainville Electrical Products Company. 171,432; Apr. 24.

Lace edgings in the piece. Marvello Lace Company. 168,220; Apr. 24.

Laces, Shoe and corset. Hutmacher Braiding Company. 156,780; Apr. 24.

Lacings, galloons, braids, etc., Shoe and other. Walker Webbing Co. 156,125; Apr. 24.

Lacquer compositions. W. H. Scheel. 175,326; Apr. 24.

Lemonade powders. Freeman's Foods, Limited. 168,147; Apr. 24.

Lightning arresters. Westinghouse Electric & Manufacturing Company. 176,864; Apr. 24.

Lotion, Eye. F. C. Wahlenmaier. 162,702; Apr. 24.

Lotion for the hands and face. L. H. Lydon. 174,604; Apr. 24.

Lye, Flake. Niagara Alkali Company. 169,918; Apr. 24.

Magazine, Monthly. Lurie Company. 167,471; Apr. 24.

Magazine, Monthly. Northman Publishing Company. 171,380; Apr. 24.

Magazine, Monthly. Radio Publishing Corporation. 168,729; Apr. 24.

Mangles. Sperlich and Uhlig Company. 170,222; Apr. 24.

Mattresses, pillows, bolsters, cushions. Robinson-Roders Co. 136,604; Apr. 24.

Medical compounds. F. L. McCollam. 172,426; Apr. 24.

Medicinal and chemical products for treating neuralgic and convulsive affections. C. A. F. Kahlbaum Chemische Fabrik Gesellschaft mit beschränkter Haftung. 168,973; Apr. 24.

Medicinal and pharmaceutical products for treating gouty, rheumatic, etc. affections. C. A. F. Kahlbaum Chemische Fabrik Gesellschaft mit beschränkter Haftung. 168,972–3; Apr. 24.

Medicinal preparation for the treatment of affections of the throat, etc. Balsamea Co. 172,661; Apr. 24.

Medicinal preparations, Proprietary. Cumberland Chemical Co. 170,429; Apr. 24.

Medicine and ingredients of medicine for tuberculosis, etc. E. J. Evans. 172,324; Apr. 24.

Medicine for indigestion, vertigo, etc. T. R. Deavy. 165,855; Apr. 24, 1923.

Milk, Powdered. International Dry Milk Co. 155,689–91; Apr. 24.

Motors, generators, and transformers, Electric. Charlotte Electric Repair Co. 175,300; Apr. 24.

Mouth wash and a remedy for pyorrhea. Hom-Pyrrho Co. 174,026; Apr. 24.

Nail polish. Henry L. Hughes Co. Inc. 173,497; Apr. 24.

Needlework, Art. T. Buettner & Co. 170,270; Apr. 24.

Nursery products. Pfund Nursery Co. 174,028; Apr. 24.

Oil, Olive. Maillard & Schmiedell. 165,801–2; Apr. 24.

Oils and greases, automobile fuel oils, cutting oils for treating metals, Lubricating. Oil and Chemical Corporation. 138,722; Apr. 24.

Oilcloth. T. R. Goodlatte & Sons, (Inc.). 175,193; Apr. 24.

Oilstones, scythestones, whetstones, ax stones, oil and water stones, etc. Pike Manufacturing Company. 173,362; Apr. 24.

Oilstones, scythestones, whetstones, hones, strops, etc. Pike Manufacturing Company. 173,783; Apr. 24.

Ointment. Lyndon Chemical Company. 174,088–9; Apr. 24.

Paints. American Marine Paint Company. 174,987; Apr. 24.

Paints, Liquid and paste. Pittsburgh Plate Glass Company. 177,451; Apr. 24.

Paints, varnishes, and oils. N. V. Vernis- en Verffabriek v. h. J. Wagenmakers & Zonen. 172,391; Apr. 24.

Paper and typewriter ribbons, Carbon. Buckeye Ribbon & Carbon Co. 172,080; Apr. 24.

Paper, Book, bond, and writing. Chillicothe Paper Company. 174,610; Apr. 24.

Paper cans. National Paper Can Company. 177,317; Apr. 24.

Paper garment bags. Rike Folding Box Company. 159,882; Apr. 24.

Paper, typewriter, and multigraph ribbon, Carbon. W. J. Johnson. 171,221; Apr. 24.

Paper, Wrapping. Alling & Cory Co. 177,158; Apr. 24.

Papers, Bond. Exline & Exline Co. 173,411; Apr. 24.

Papers, electric abrasive cloth, etc., Aluminum-oxide, etc. H. H. Barton and Son Co. 173,461; Apr. 24.

Peanut butter, Olives, mustard, chow relish. Walter J. Hirsch Co. 157,523; Apr. 24.

Peanut jam. Honey Products Co. 173,769; Apr. 24.

Peanuts and salted almonds, Salted. H. D. Sawkins. 173,580; Apr. 24.

Pearls, Artificial. M. A. Zolla. 160,378; Apr. 24.

Pencils, Lead. Blaisdell Pencil Company. 176,943; Apr. 24.

Perfume, toilet water, rouges, etc. E. Daltroff & Cie. 174,169; Apr. 24.

Perfumes. Agra Company. 174,762; Apr. 24.

Pharmaceutical preparation. Phospho-Albumen Company. 174,258; Apr. 24.

Pharmaceutical preparations for use in cases of tuberculosis. N. L. Waelchli. 172,852; Apr. 24.

Phonograph accessories. R. R. Witman. 170,964; Apr. 24.

Phonograph records. Sears, Roebuck and Company. 140,072; Apr. 24.

Phonographs, talking and musical machines, phonograph needles. Polyphonwerke Aktiengesellschaft. 145,583; Apr. 24.

Piano-player actions. King Player Action Company. 172,420; Apr. 24.

Picture-projection apparatus, motion-picture-projecting machines, etc., Advertising motion-. A. Price. 168,691; Apr. 24.

Pictures, Motion. Associated Exhibitors Inc. 175,759; Apr. 24.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Pipes and fittings, Cast-iron gas and water. Warren Foundry and Machine Company. 164,846; Apr. 24.
Pipes and pipe parts. General Bakelite Company. 175,601; Apr. 24.
Pipes, Tobacco. Delacour Bros. Ltd. 176,723–8; Apr. 24.
Polish. J. Jenen. 174,142; Apr. 24.
Polish, Furniture. W. T. Grant Company. 176,405; Apr. 24.
Polish, Metal and stove. National Graphite Company. 172,389; Apr. 24.
Polish, Shoe. Akin Manufacturing Company. 174,809; Apr. 24.
Polishes for automobiles and furniture. L. E. Beougher. 176,781; Apr. 24.
Polishes for furniture, automobiles, etc. Olson Brothers Company. 173,203; Apr. 24.
Polishing compositions. E. Reed Burns Manufacturing Corp. 171,009; Apr. 24.
Powder, Face. L. B. Ridley. 167,327; Apr. 24.
Powder for bathing, washing, and cleaning purposes. W. E. Brackett. 173,904; Apr. 24.
Powder, Toilet. Olivette Laboratories, Inc. 174,700; Apr. 24.
Powders and rouges, Face. Lionel Trading Co. 174,085; Apr. 24.
Preparation for the treatment of coughs, colds, etc. E. F. White. 172,459; Apr. 24.
Publication, Monthly. Fletcher American Company. 158,676; Apr. 24.
Radio receiving outfits. D. Grimes. 174,657; Apr. 24.
Radio receiving sets. Marinette Electric Corporation. 176,634; Apr. 24.
Radio receiving sets. Radio Corporation of America. 174,859; Apr. 24.
Radio telephone and telegraphic instruments and parts thereof. Union Radio Corporation. 162,091; Apr. 24.
Ratine in the piece. Susquehanna Silk Mills. 177,147; Apr. 24.
Razor straps. G. N. W. Wilson. 164,684; Apr. 24.
Refrigerators and refrigerator show cases. R. E. Ottenheimer. 173,204; Apr. 24.
Registers for heating purposes. Rock Island Register Company. 165,157; Apr. 24.
Ribbon novelties or trims. R. C. Taft. 170,164; Apr. 24.
Ribbons. Wertheimer Brothers. 176,052; Apr. 24.
Ribbons in the piece, Silk. Taylor-Friedsam Company. 176,860; Apr. 24.
Rubber boots and shoes, rubber overshoes, etc. Hood Rubber Company. 176,344; Apr. 24.
Rubber, Guayule. Continental Rubber Company of New York. 174,427; Apr. 24.
Rugs, Textile. Kent-Costikyan Trading Company Inc. 175,661; Apr. 24.
Sadirons, Electric. Jordan Marsh Company. 173,890; Apr. 24.
Salts, Alkaline. Abel-Jensen Laboratories. 171,884; Apr. 24.
Sandals of leather and textile material, Women's. H. E. Adams. 176,705–8; Apr. 24.
Sanitary napkins. R. W. Naylor. 174,629; Apr. 24.
Scouring utensils. Chore Utensils Corporation of America. 173,321; Apr. 24.
Seeds and bulbs, Vegetable, flower, and lawn-grass. W. Atlee Burpee Co. 175,067; Apr. 24.
Seeds, Flower. W. Atlee Burpee Co. 175,066; Apr. 24.
Seeds, Vegetable. W. Atlee Burpee Co. 175,065; Apr. 24.
Shirtings and percales, Printed. Everett, Heaney & Co., Inc. 166,820; Apr. 24.
Shirtings and percales, Printed. Everett, Heaney & Co., Inc. 166,823; Apr. 24.
Shirts, trousers, and jackets, Women's. M. Phillips. 157,581; Apr. 24.
Shoes. Hurley Shoe Co. 168,844; Apr. 24.
Shoes. London Shoe Co. 172,948; Apr. 24.
Shoes. Vaughan-Towle Co. 176,300; Apr. 24.
Shoes, Leather. John Meier Shoe Company. 158,722; Apr. 24.
Shoes, Leather. Menihan Company. 158,787–8; Apr. 24.
Shoes, Women's. Craddock Terry Company. 171,906; Apr. 24.
Silk, cotton, etc., piece goods. Travis, Romaine & Jelle, Inc. 174,545; Apr. 24.
Silk, cotton, wood piece goods and combinations thereof. J. A. Migel, Inc. 175,670; Apr. 24.
Silk piece goods. H. R. Mallinson & Co. Inc. 173,139; Apr. 24.
Silver-plated flatware, tableware, and cutlery. Oneida Community, Limited. 168,617–18; Apr. 24.
Silver-plated flatware, tableware, and cutlery. Oneida Community, Limited. 168,724; Apr. 24.
Sirup, Malt. Primalt Products Co. 167,420; Apr. 24.
Skates, Ice. American Sport Shop, Inc. 175,453; Apr. 24.
Sleds. Safety Sled Company. 175,949; Apr. 24.
Soap and shaving powder, Toilet. Erste Karlsruher Parfümerie- & Toiletteseifen-Fabrik, F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung. 173,709–10; Apr. 24.
Soap and soap powder. Lever Brothers Company. 171,130; Apr. 24.
Soap compounds. E. A. Sprague. 174,641; Apr. 24.
Soap-dispensing systems, Liquid. West Disinfecting Company. 173,264; Apr. 24.
Soap, Liquid. O. Justus. 174,455; Apr. 24.
Soaps. Kendall Mfg. Co. 170,487; Apr. 24.
Soaps. Lawrence Soap Co. 169,366; Apr. 24.
Soaps. Pennsylvania Soap Company of Lancaster, Pa. 170,728; Apr. 24.
Soaps. Supersoap Products Co. 149,601; Apr. 24.
Soaps. Wolf Creek Soap Works Company. 157,744; Apr. 24.
Soaps, body wash, floor cleanser, glass polish, metal polish, etc. Kermul Products, Inc. 173,068; Apr. 24.
Soda, granulated lye, and chlorinated lime, Caustic. Hooker Electrochemical Company. 169,903; Apr. 24.
Soyer, Curd meat from the. Y. Kin. 131,177; Apr. 24.
Spring beds, mattresses, cots, and metal bedsteads. Southern Spring Bed Company. 173,859; Apr. 24.
Tablets and antiseptic preparations for the treatment of scalds, burns, etc. W. W. Herrick. 174,206; Apr. 24.
Tablets, Gas. J. Banlmann. 169,996; Apr. 24.
Tape, pins, hair curlers, etc., Lingerie. Samstag & Hilder Bros. 172,060; Apr. 24.
Tapioca. Haas Baruch & Co. 171,317; Apr. 24.
Tires and inner tubes. L. L. Chadwin. 172,512; Apr. 24.
Tires and inner tubes. George Spencer, Moulton & Co. Ltd. 151,299; Apr. 24.
Tires and inner tubes, Rubber. Mid-Continent Tire Manufacturing Company. 118,089; Apr. 24.
Tires, Rubber. Fisk Rubber Company. 173,186; Apr. 24.
Tires, Solid and pneumatic rubber and fabric. Miller Rubber Company. 174,791; Apr. 24.
Toilet water. W. J. Bush & Co. 173,170–1; Apr. 24.
Tonic. E. G. Twombly, administratrix of the estate of Dr. James Twombly. 171,341; Apr. 24.
Toothbrush sterilizers. W. E. Barnard. 160,747; Apr. 24.
Toy animals. Asiatic Import Co. 177,030; Apr. 24.
Toy coasters. H. E. M. Mfg. Co. 176,023; Apr. 24.
Toy vehicles, Self-propeller. C. E. Bowers. 177,067; Apr. 24.
Trunks, Wardrobe. New Process Company. 175,620; Apr. 24.
Tunny fish, tomatoes, tomato sauce, and paste, string beans, etc. Savoy Importing Co., Inc. 163,711; Apr. 24.
Typewriter ribbons. Blackbird Factories, Inc. 146,950; Apr. 24.
Vanity cases and ladies' hand bags. Ritter Brothers. 177,517; Apr. 24.
Varnish. Milwaukee Paint & Varnish Works. 168,328; Apr. 24.
Varnishes. Berry Brothers. 177,647; Apr. 24.
Vegetables, Fresh. Meyer Bros. 164,334; Apr. 24.
Vehicles, Gear shifts and parts thereof for motor. J. R. Flannery. 174,566; Apr. 24.
Washing compounds and liquids. E. N. Blackmore. 172,825; Apr. 24.
Washing fluid. F. Cicetti. 174,725; Apr. 24.
Washing machines and wringers, Laundry. Marshall-Wells Company. 174,211; Apr. 24.
Washing machines, Clothes-. American Range & Foundry Company. 173,522; Apr. 24.
Watchcases. American Watch Import Company. 173,736; Apr. 24.
Watches, watch movements, and parts thereof. Hipp. Didisheim Company. 174,621; Apr. 24.
Watermelons. Texas Farm Bureau Melon Growers' Exchange. 167,152; Apr. 24.
Wind screens for use with vehicles. Easting Windscreens Limited. 171,987; Apr. 24.
Woolen fabrics in the piece. American Uniform Company. 170,115; Apr. 24.
Woolen piece goods. Forstmann & Huffmann Company. 169,441; Apr. 24.
Yeast food. Ward Baking Company. 173,586; Apr. 24.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. P. W. Paper Co. (See Crandell, Willis S. assignor.)
Abbott, Cecil C., Harbor Springs, and W. E., B. L., and I. L. Bassett, Detroit, Mich. Fire escape. 1,452,543; Apr. 24.
Abel, Theodore, Cleveland, Ohio. Furnace-grate structure. 1,452,584; Apr. 24.
Acme Cement Plaster Company. (See Pipe, Edward H., assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Onnertz, Paul, assignor.)
Adams & Westlake Co., The. (See Hamm, William S., assignor.)
Adams, Benjamin F., Tenafly, N. J., assignor to American Machinery Company, Philadelphia, Pa. Feed for powder in automatic packaging machines. 1,452,585; Apr. 24.
Adkinson, William, Providence, assignor to H. & B. American Machine Company, Pawtucket, R. I. Combined doffer guard and oil-well cover. 1,452,678; Apr. 24.
Advance Machine Company. (See Antoine, Alfred D., assignor.)
Aktiebolaget Kvafveindustri. (See Thorssell, C. T., and Lundén, assignors.)
Aktiengese Uschaft vorm, Adolf Finze & Co. (See Förster, Paul, assignor.)
Aktieselskapet Zink, et. al. (See Ræder, Björn, assignor.)
Allen Manufacturing and Welding Corporation, The. (See Schuman, Frank J., assignor.)
Allen, Will D., Farmington, N. H. Enameling rack. 1,452,821; Apr. 24.
Almquist, Leopold, assignor to American Car and Foundry Company, New York, N. Y. Cane car. 1,452,486; Apr. 24.
Aluminum Manufacturers, Incorporated. (See Norton, Allen B., assignor.)
Aman, Josephine. (See Hartenstein, Willy, assignor.)
American Arch Company. (See Willett, Alfred H., assignor.)
American Can Company. (See Widell, M. E., and Jahr, assignors.)
American Car and Foundry Company. (See Almquist, Leopold, assignor.)
American Car and Foundry Company. (See Auchincloss, William K., assignor.)
American Car and Foundry Company. (See Fischer, Charles C., assignor.)
American Car and Foundry Company. (See Flinn, Christopher, assignor.)
American Car and Foundry Company. (See Hervig, Richard, assignor.)
American Car and Foundry Company. (See Johnson, W. S., and Sheffer, assignors.)
American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
American Car and Foundry Company. (See Rohling, John M., assignor.)
American Car and Foundry Company. (See Scheibli, Robert J., jr., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
American District Telegraph Company. (See Hopkins, Richard M., assignor.)
American Machinery Company. (See Adams, Benjamin F., assignor.)
American Radium Appliance Company. (See Savoye, Herbert F., assignor.)
American Telephone and Telegraph Company. (See Conlee, Carlton N., assignor.)
American Telephone and Telegraph Company. (See Potts, Louis M., assignor.)
Amores, Rosa M., Washington, D. C. Detachable and foldable lamp shade. 1,452,773; Apr. 24.
Amsler, Walter O., Pittsburgh, Pa. Annealing furnace or leer. 1,453,116; Apr. 24.
Anaconda Lead Products Company. (See Sperry, Elmer A., assignor.)
Anson, John H., Stirling, N. J. Attachment for typewriting machines. 1,452,822; Apr. 24.
Anderson, George W., St. Louis, Mo. Adjustable droplight support. 1,452,950; Apr. 24.
Anderson, Leonard, H., Bridgeport, Conn. Draw-chuck attachment. 1,453,117; Apr. 24.
Andrea, Agnes L., New York, N. Y., assignor to Nichols Dehydrator Corporation. Apparatus for desiccating food. 1,452,586; Apr. 24.
Andrews, Frederick A., Brooklyn, assignor to The Esmond Mills, New York, N. Y. Blanket or similar article. Des. 62,252; Apr. 24.
Anschutz & Co. (See Schuler, Max, assignor.)
Antoine, Alfred D., assignor to Advance Machine Company, Chicago, Ill. Check-controlled machine. 1,452,721; Apr. 24.
Appel, Fred, et al. (See Webb, Benjamin F., assignor.)
Apple, Vincent G., Dayton, Ohio. Tool for forming insulators. 1,453,118; Apr. 24.
Arvidson, Herman, Minneapolis, Minn. Necktie holder. 1,452,722; Apr. 24.
Atack, Frederick W., Manchester, England, and C. W. Boutar, St. Andrews, Scotland. Intermediates and dyestuffs of the anthraquinone series. 1,452,774; Apr. 24.
Atkins, Charles H., Palmer, assignor to Phoenix Sprinkler Company, Springfield, Mass. Thermostatic valve. 1,452,723; Apr. 24.
Atlas Powder Company. (See Mitscherling, Waldemar O., assignor.)
Atwood, Francis C., Newton, assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Cannula and clamp. 1,452,863; Apr. 24.
Auchincloss, William K., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Tank car. 1,452,487; Apr. 24.
Austin Manufacturing Co. (See Liddell, Moses V., assignor.)
Auto Mail Distributer, Inc., The. (See Briggs, Arthur J., assignor.)
Axle Lock Corporation. (See Siegel, Ernest, assignor.)
Bachman, Joseph E. and R. A., Bethlehem, Pa. Chain link. 1,453,088; Apr. 24.
Bachman, Ray A. (See Bachman, Joseph E. and R. A.)
Bacon Bros. Co., The. (See Bacon, Charles F., assignor.)
Bacon, Charles F., assignor to The Bacon Bros. Co., Toledo, Ohio. Rug manufacture. 1,452,776; Apr. 24.
Bacon, Charles J. (See Kraft, F. G., and Bacon.)
Bacon, Chester A., assignor to Bowen Products Corporation, Auburn, N. Y. Lubricating device. 1,452,775; Apr. 24.
Badische Anilin & Soda Fabrik. (See Bosch, C., Dehnel, and Kircher, assignors.)
Badische Anilin & Soda-Fabrik. (See Gaus, W., Meiser, and Eberhardt, assignors.)
Baker, Fenner B., assignor, by mesne assignments, to Superior Hand Embroiderer Corporation, New York, N. Y. Embroidery needle. 1,452,544; Apr. 24.
Baker, John R. (See Neal, George D., assignor.)
Baker, Norman G., Muscatine, Iowa. Holder for photographic paper. 1,452,996; Apr. 24.
Bakken, Ole K., Northwood, N. Dak. Station selector. 1,452,903; Apr. 24.
Balcom, Raymond A., Akron, Ohio. Heating apparatus. 1,452,864; Apr. 24.
Baldwin, Frederic E., Philadelphia, Pa. Carburetor. 1,452,488; Apr. 24.
Balhorn, Hans. (See Herz, R., and Balhorn.)
Ball, Charles M., jr., Loveland, Colo. Coupling for electric-light fixtures. 1,453,233; Apr. 24.
Ball, H. A. (See Salter, Horace E., assignor.)
Band, Stephen W., San Francisco, assignor of one half to W. Hackett, Oakland, Calif. Locking bolt. 1,452,777; Apr. 24.
Banzhaf, Edwin J. (See Wenderhold, William, assignor.)
Barber Asphalt Company, The. (See Miller, John S., jr., assignor.)
Barbet, Emile A., Paris, France. Process and apparatus for the recovery of the vapors of volatile liquids from aeriform mixtures. 1,452,778; Apr. 24.
Barker, George E., Aberdeen, S. Dak. Decoy. 1,452,631; Apr. 24.
Barker, George R., Joliet, assignor to W. E. Pratt, Chicago, Ill. Wrench. 1,452,951; Apr. 24.
Barnes, Albert E., assignor, by mesne assignments, to Kritikson Bros., Inc., Chicago, Ill. Check protector. 1,452,674; Apr. 24.
Barnett, L. C. (See Phelps, Frank, assignor.)
Barnett, William H., Knoxville, Tenn. Sewing machine. 1,452,632; Apr. 24.
Barnett, William H., Knoxville, Tenn. Sewing machine. 1,452,633; Apr. 24.
Barnhurst, Henry G., Allentown, Pa., assignor to Fuller Engineering Company. Pulverized-fuel Furnace. 1,452,952; Apr. 24.

Barr and Stroud, Limited. (See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Speed-controlling device. 1,453,119; Apr. 24.
Barry Company. (See Barry, Nicholas, assignor.)
Barry, Nicholas, assignor to Barry Company, Muscatine, Iowa. Water-jet head attachment for button-blank-cutting machines. 1,452,779; Apr. 24.
Basilio, Gennaro, New Haven, Conn. Combined window-shade bracket and curtain-pole support. 1,452,865; Apr. 24.
Bassett, Bert L. (See Abbott, C. C., and Bassett.)
Bassett, Irvin L. (See Abbott, C. C., and Bassett.)
Bassett, Willard E. (See Abbott, C. C., and Bassett.)
Bates, Roy, Nevada, Mo. Bank check and check book. 1,453,234; Apr. 24.
Bates, Roy, Nevada, Mo. Check perforator. 1,453,235; Apr. 24.
Bauer, Carl E., Hammond, Ind. Producing fulcrums. 1,452,489; Apr. 24.
Bauert, William H., Roseville, near Sydney, New South Wales, Australia. Automatic additional air valve for combustion engines. 1,453,236; Apr. 24.
Beard, Lawrence O., Lancaster, Pa. Micrometer calipers. 1,452,780; Apr. 24.
Beaver, Hermann L., Philadelphia, Pa. Steel peb. 1,453,120; Apr. 24.
Becker, Max, Los Angeles, Calif. Auto-windshield attachment. 1,452,904; Apr. 24.
Becket, Frederick M., Niagara Falls, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Welding rod. 1,452,781; Apr. 24.
Beehler, Elmer G., Yuma, Colo. Automotive test unit. 1,452,905; Apr. 24.
Beisel, William J., Port Richmond, N. Y. Spring wheel. 1,452,782; Apr. 24.
Bell, Benjamin F. T., Taunton, Mass. Wire-insulation cutter and stripper. 1,452,634; Apr. 24.
Bemisderfer, Harvey O., Hammond, Ind., assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. 1,452,907; Apr. 24.
Beneke & Kropf Mfg. Co. (See Hain, Benjamin T., assignor.)
Benner, Arthur M., Olympia, Wash. Drawer. 1,453,121; Apr. 24.
Benson, Leon C., Philadelphia, Pa. Trombone attachment. 1,453,122; Apr. 24.
Bercioux, Eugene, New York, N. Y. Machine for facing mouthpieces of musical wind instruments. 1,452,953; Apr. 24.
Berninghaus, Eugene, Cincinnati, Ohio. Enameling. 1,452,635; Apr. 24.
Besser, Herman and J. H., Alpena, Mich. Door for mixing machines. 1,452,824; Apr. 24.
Besser, Jesse H. (See Besser, Herman and J. H.)
Beuc, Jacob. (See Mesker, F. Smith, and Beuc.)
Bickett, Leroy M., Watertown, Wis. Mold for rubber mats, etc. 1,453,123; Apr. 24.
Binns, Edward H. and R. H., Pittsburgh, Pa. Shoe-string-holding cuff. 1,453,036; Apr. 24.
Binns, Ralph H. (See Binns, Edward H. and R. H.)
Bishop, Joseph T., Toledo, Ohio. Automobile testing apparatus. 1,452,783; Apr. 24.
Blackall, Robert H., Pittsburgh, Pa., assignor to Ratchet Brake Company. Ratchet-brake mechanism. 1,452,784; Apr. 24.
Blake, Eli J., Buffalo, N. Y., assignor to Gould Coupler Company. Regulating and circuit-controlling apparatus. 1,452,587; Apr. 24.
Blanco, Jose M., Newark, N. J. Vegetable slicer. 1,452,724; Apr. 24.
Blass, Carl J., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Coupling. 1,453,059; Apr. 24.
Bliss, E. W., Company. (See Klocke, William, assignor.)
Bliss, Herbert R., Niagara Falls, N. Y. Sealing fiber shipping cases. 1,452,588; Apr. 24.
Boller, George C. and W. B., Loomis, Calif. Fruit-press crate and cleat-positioning machine. 1,452,866; Apr. 24.
Boller, Warren B. (See Boller, George C. and W. B.)
Borden Company, The. (See Hopkins, Archibald E., assignor.)
Bosch, Carl, Ludwigshafen-on-the-Rhine, E. Dehnel, Rossen, near Marseburg, and C. Kircher, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Conversion of ammonia into ammonium chloride. 1,453,060; Apr. 24.
Bosworth, William G., New York, N. Y. Roller. 1,452,824; Apr. 24.
Bowden, Thomas, Forest City, Pa. Toy vehicle. 1,452,636; Apr. 24.
Bowe, Elbert I., Huron, S. Dak. Fan control for motor vehicles. 1,453,124; Apr. 24.
Bowen Products Corporation. (See Bacon, Chester A., assignor.)
Bowers, Sallie B., Kansas City, Mo. Elbow cuff. 1,452,998; Apr. 24.
Bowie, Clifford P., Berkeley, Calif., and M. J. Gavin, Boulder, Colo. Apparatus for the treatment of naturally-occurring hydrocarbon-containing materials. 1,453,037; Apr. 24.
Boyce, John E., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Correcting device for floor controllers. 1,452,490; Apr. 24.
Boyd, Charles T., and G. S. Hershey, Columbus, Ohio. Powder puff. 1,453,038; Apr. 24.
Boyd, F. L. (See Minney, Arthur W., assignor.)
Boyle, Elizabeth F. (See Ferris, Nunez C., assignor.)
Brading, Dennis A., Chicago, Ill. Electrolytic cell. 1,452,589; Apr. 24.
Bradley, Joseph B., Miami, Fla. Nail puller. 1,452,545; Apr. 24.
Brandenberger, Jaques E., assignor to La Societe La Cellophane, Paris, France. Production of sensitive films for photographic purposes. 1,452,785; Apr. 24.
Brandt, Harold G. (See McHewitt, W., and Brandt.)
Branston, George W. (See Brewer, F. A., and Branston.)
Brantford Computing Scales Ltd. (See McGregor, James D., assignor.)
Braun, William A., Dover, Ohio, assignor to Dover Manufacturing Company. Pack for electrical heating elements. 1,452,954; Apr. 24.
Bretnayder, Ferdinand C., St. Louis, Mo. Oil burner. 1,453,257; Apr. 24.
Brewer, Frank A., and G. W. Branston; said Brewer assignor of his entire right to F. A. Brewer, jr., Vancouver, British Columbia, Canada. Ball-pulverizing mill. 1,452,786; Apr. 24.
Brewer, Frank A., jr. (See Brewer, F. A., and Branston, assignors.)
Brewer, Frank G., Hunter, N. Dak. Vegetable cutter. 1,452,546; Apr. 24.
Brier, Henry, Dartford, England. Receiver of refrigerating apparatus. 1,452,999; Apr. 24.
Briggs, Arthur J., assignor to The Auto Mail Distributer, Inc., Syracuse, N. Y. Feeding and imprinting mechanism for mail and other units. 1,452,867; Apr. 24.
Briggs, Arthur J., assignor to The Auto Mail Distributer, Inc., Syracuse, N. Y. Mail-distributing apparatus. 1,453,125; Apr. 24.
Brindley, Joseph F., assignor to Hodges Finishing Company, East Dedham, Mass. Cloth-piling machine. 1,452,825; Apr. 24.
Brinkman, Carl F., Milwaukee, Wis. Collapsible coat hanger. 1,453,000; Apr. 24.
Brogger, Ivar W., Newark, N. J., assignor to Standard Electric Manufacturing Company. Electrical measuring instrument. 1,452,590; Apr. 24.
Brogger, Ivar W., Newark, N. J., assignor to Standard Electric Manufacturing Company. Electrical measuring instrument. 1,452,591; Apr. 24.
Brooks, Chester K., Mentor, assignor to The National Malleable Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. 1,452,725; Apr. 24.
Brown, Isaac M., Youngstown, Ohio. Direction indicator. 1,453,237; Apr. 24.
Brown, Max. (See Gleason, Frederick J., assignor.)
Brown, Theodore P., assignor to Simplex Player Action Company, Worcester, Mass. Automatic musical instrument. 1,452,491; Apr. 24.
Brundige, Edward, Chicago, Ill. Vehicle spring. 1,453,061; Apr. 24.
Brunk, Oscar E. W., assignor to J. J. Marx, St. Louis, Mo. Pad for pressing machines. 1,452,726; Apr. 24.
Bryan, William G., Sydney, assignor to T. S. Gurr, P. B. Sheather, Mosman, near Sydney, and C. R. Sweetman, Randwick, near Sydney, New South Wales, Australia. Hub brake for motor vehicles. 1,453,126; Apr. 24.
Bryant, Ralph. (See Richardson, Wilber D., assignor.)
Bryant, Stanley C., Chicago, Ill. Electric-circuit controller. 1,453,089; Apr. 24.
Bundy, Harry W. (See Snell, Samuel A., assignor.)
Bureau d'Organisation Économique. (See Toulon, Pierre M. G., assignor.)
Burt, William H., assignor to The Chase Companies Inc., Waterbury, Conn. Visible spark plug. 1,452,868; Apr. 24.
Busch-Sulzer Bros.-Diesel Engine Company. (See Kägi, Emil, assignor.)
Busch-Sulzer Bros.-Diesel Engine Co. (See Pfeffer, Oscar W., assignor.)
Busenbark, William R., Akron, Ohio. Pneumatic tire. 1,452,787; Apr. 24.
Butler, Obadiah, and A. Morin, Killingly, Conn. Splicing apparatus. 1,452,906; Apr. 24.
Butterworth, Arthur, A. B., jr., and H., Rochdale, England. Multispeed gear for machine tools. 1,453,127; Apr. 24.
Butterworth, Arthur, jr. (See Butterworth, Arthur A., jr., and H.)
Butterworth, Harold. (See Butterworth, Arthur A., jr., and H.)
Buxton, Incorporated. (See Buxton, Warner R., assignor.)
Buxton, Warner R., Longmeadow, Mass., assignor to Buxton, Incorporated. Key-case holder. 1,452,727; Apr. 24.
C. G. Haubold Aktien-Gesellschaft. (See Schnoeckel, Richard, assignor.)
Cable, Elbert E., Portland, Oreg. Surgical table. 1,453,062; Apr. 24.
Calderwood, Earl B., Oakland, Calif. Combination door-knob and ringing device. 1,452,788; Apr. 24.

Call, Ira A. and J. C., New York, N. Y., assignors, by mesne assignments, to The Ideal Automatic Train Control Company, Dover, N. J. Insulated wheel structure. 1,452,547; Apr. 24.
Call, Joseph C. (See Call, Ira A. and J. C.)
Callan, William H., and T. P. Kimman, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Piston and crank connection for engines. 1,452,955; Apr. 24.
Camp, William E., Canton, Ohio. Cable connector. 1,453,001; Apr. 24.
Campbell, Robert J., assignor to W. H. Smith, Denver, Colo. Steam cabinet for foods. 1,452,907; Apr. 24.
Campbell, Robert L. (See Mock, George R., assignor.)
Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. 1,453,002; Apr. 24.
Canter, Vernon C. (See Voress, C. L., and Canter.)
Capouch, Emil, Cicero, Ill. Engine-cranking device. 1,452,592; Apr. 24.
Carek, Charles C., Touhy, Nebr. Portable air-storage tank. 1,452,780; Apr. 24.
Carey, Philip Manufacturing Company, The. (See Kleeman, William, assignor.)
Carithers, James V., and H. J. Williamson, Pomeroy, Wash. Drink mixer. 1,453,128; Apr. 24.
Carol, Charles W., Globe, Ariz. Chicken coop or brooder. 1,452,728; Apr. 24.
Carpenter, Edgar H., Yoakum, Tex. Washer. 1,452,492; Apr. 24.
Caresow, Felix H., Vallejo, Calif. Optical instrument. 1,452,675; Apr. 24.
Carter, William H., et al. (See Webb, Benjamin F., assignor.)
Cash, Arthur W., assignor to H. A. Sellers, Decatur, Ill. Kite. 1,452,956; Apr. 24.
Cattier, Raymond E., Paris, France. Portable folding seat. 1,452,869; Apr. 24.
Central Railway Signal Company. (See Bemisderfer, Harvey O., assignor.)
Century Machinery Corporation. (See Schmelzer, Anton C., assignor.)
Chalmers, John, Vancouver, British Columbia, Canada. Hot-air furnace. 1,453,063; Apr. 24.
Chase Companies Inc., The. (See Burt, William H., assignor.)
Chase, Horace B., jr., Paris, France. Fly for fly fishing and similar uses. 1,452,593; Apr. 24.
Chemical Machinery Corporation. (See Field, Crosby, assignor.)
Chicago Manufacturing and Distributing Co. (See Sultemeyer, Charles F., assignor.)
Chicago Pneumatic Tool Company. (See Callan, W. H., and Kimman, assignors.)
Chicago Pneumatic Tool Company. (See Pritchard, Charles A. G., assignor.)
Chinsky, Harry H., and E. Honstetter, Brooklyn, N. Y. Spark plug. 1,453,039; Apr. 24.
Clark, John. (See Hood, J. J., and Clark.)
Clark, Percy G. (See Hood, J. J., and Clark.)
Claude, Georges, assignor to Societe l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Thermally-insulated apparatus and insulating the same. 1,452,594; Apr. 24.
Claupin, Wilhelm F., Attleboro, Mass. Swimming device. 1,452,790; Apr. 24.
Cleveland Tractor Company, The. (See Savage, Edwin H., assignor.)
Cole, Clifford E., Birmingham, Ala. Hot-water-tank heater. 1,452,676; Apr. 24.
Colette, George A., Blanchard, Wash. Automobile polish. 1,453,003; Apr. 24.
Collins, Charles H., West Albany, N. Y. Tube frame for Axminster looms. 1,452,791; Apr. 24.
Collion, Nicholas, Milwaukee, Wis. Gear-shift lock. 1,453,004; Apr. 24.
Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling. 1,452,957; Apr. 24.
Columbian Rope Company. (See Kinney, John J., assignor.)
Colvin, Milton N., Komoka, Ontario, Canada. Spoke grip. 1,452,908; Apr. 24.
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Comlee, Carlton N., Chicago, Ill., assignor to American Telephone and Telegraph Company. Manhole-platform support. 1,452,548; Apr. 24.
Conlon, Walter J., Oak Park, Ill. Clutch for washing machines. 1,453,129; Apr. 24.
Connelly, Joseph I., Chicago, Ill. Burglar alarm. 1,452,595; Apr. 24.
Conner, Ralph L., Wilmington, Del. Floor planers. 1,452,493; Apr. 24.
Conrader, Rudolph, Erie, Pa. Apparatus for treating oils from flowing wells. 1,452,549; Apr. 24.
Considine, Daniel T., Watertown, Mass. Crate. 1,453,005; Apr. 24.
Coolidge, Karl R. (See Whitcomb, R. F., and Coolidge.)
Cooper, Thomas S., jr., Charleston, W. Va., assignor to Kooper Damper Co., Philadelphia, Pa. Automatic damper. 1,452,792; Apr. 24.
Corwin, Howard D. (See Fox, W. R., and Corwin.)
Court, Frank T., Walker, Iowa. Distant control for tractors. 1,453,130; Apr. 24.
Covelle, Albert E., West Medford, Mass. Adjusting glasses, spectacles, and the like. 1,452,909; Apr. 24.
Cowles, C., and Company. (See Hart, Franklin H., assignor.)
Crandell, Willis S., Elsmere, assignor to A. P. W. Paper Co., Albany, N. Y. Paper-making machine. 1,453,090; Apr. 24.
Crawford, McGregor and Canby Company, The. (See Mattern, George W., assignor.)
Creed, Frederick G., Croydon, England. Telegraphic receiving apparatus. 1,452,793; Apr. 24.
Creed, Frederick G., Croydon, England. Telegraphic receiving apparatus. 1,452,794; Apr. 24.
Crouse-Hinds Company. (See Olley, Edwin A., assignor.)
Crozier, Alfred O., assignor to Crozier-Straub, Inc., New York, N. Y. Machine for making cementitious articles. 1,453,040; Apr. 24.
Crozier-Strab, Inc. (See Crozier, Alfred O., assignor.)
Crucet, Joseph M., New York, N. Y. Electric-lamp shade. Des. 62,231; Apr. 24.
Curran, Edward T., Detroit, Mich. Radiator for airplane engines. 1,452,958; Apr. 24.
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Cutler-Hammer M'f'g Co., The. (See Yerger, Charles W., assignor.)
Czarnecki, Wladyslaw. (See Murphy, T. W., and Czarnecki.)
Dahl, Thure, New York, N. Y. Light receptacle for lighting fixtures. Des. 62,232; Apr. 24.
Dalits, Harry, Cleveland, Ohio. Sink strainer. 1,452,494; Apr. 24.
Daniels, Eugene O., Toledo, Ohio. Gas and vapor burner. 1,452,826; Apr. 24.
Danson, Willa, San Leandro, Calif. Statuette. Des. 62,253; Apr. 24.
Danziger, Abraham, New York, N. Y. Sheet guard for platen presses. 1,453,064; Apr. 24.
Davidson, Louis, New York, N. Y. Reenforcement for reenforced-concrete flat-slab construction. 1,452,677; Apr. 24.
Davies, Thomas M., Llanelly, Wales. Tire-inflating pump. 1,452,870; Apr. 24.
Day, Emory C., Laguna Beach, Calif. Lighting means for surgical and other purposes. 1,453,006; Apr. 24.
Daylight Film Corporation. (See John, Robert, assignor.)
Dayton-Wright Company. (See Jacobs, James M. H., assignor.)
De Boer, Ralph, Sheldon, Iowa. Four-horse evener. 1,452,729; Apr. 24.
De Fernelmont, Leon, Paterson, N. J. Tire tool. 1,452,596; Apr. 24.
De Forest, Lee, New York, N. Y. Telephone device. 1,452,827; Apr. 24.
Dehnel, Erich. (See Bosch, C., Dehnel, and Kircher.)
De Hooydonck, Henry, Biarritz, France. Wheel with improved pneumatic tire for motor vehicles. 1,452,795; Apr. 24.
Deitz, Frank W., Cleveland, Ohio. Adjustable spacing tool. 1,452,828; Apr. 24.
De La Mare, Thomas, Tooele, Utah. Culvert. 1,452,796; Apr. 24.
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Delbare, Hector E., Chicago, Ill. Means for extinguishing fire. 1,453,091; Apr. 24.
Detroit Hoist and Machine Company. (See Martin, Henry F., assignor.)
Detroit Stamping Company. (See Roberts, William H., assignor.)
Deutsche Werke Aktiengesellschaft. (See Retterath, Valentin, assignor.)
De Vries, John, assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y. Convertible one-pipe furnace. 1,452,637; Apr. 24.
Di Dio, Giuseppe, New York, N. Y. Shoe heel. 1,452,959; Apr. 24.
Diebold Safe & Lock Company, The. (See Miller, C. H., and Scott, assignors.)
Dienst, Karl, Charlottenburg, near Berlin, Germany. Sterilizing flour and grits made from cereals. 1,452,871; Apr. 24.
Dilas, Harry, Bay City, Mich. Apparatus for removing the division plate from ice-cream receptacles. 1,452,678; Apr. 24.
Ditcham, William T., Twickenham, England, assignor to Radio Corporation of America, New York, N. Y. Wireless transmitter. 1,452,960; Apr. 24.
Dodge Brothers. (See Goddard, George E., assignor.)
Donaldson, George A., Girard, Ill. Display easel. 1,453,238; Apr. 24.
Donauer, Max, assignor to The Elyria Enameled Products Company, Elyria, Ohio. Condenser. 1,453,041; Apr. 24.
Dornier, Claudius, Friedrichshafen, near Berlin, assignor of one-half to Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gutiform section. 1,452,961; Apr. 24.
Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)
Dorsey, Philip H., Algiers, La. Cushion wheel. 1,453,092; Apr. 24.

Dostal, Leo, Kladno, Czechoslovakia. Pedestal. 1,453,239; Apr. 24.
Dover Manufacturing Company. (See Braun, William A., assignor.)
Dowd, Patrick, Brooklyn, N. Y. Motor-vehicle alarm. 1,453,240; Apr. 24.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Drees, Andrew A., assignor of one-half to P. B. Rohner, Lewistown, Mont. Air-brake-release valve. 1,452,495; Apr. 24.
Dremel, Albert J., Racine, Wis. Motor-driven lawn mower. 1,452,730; Apr. 24.
Dudley, William H. C., Americano, Ga. Stereopticon device. 1,452,797; Apr. 24.
Duffield, Archibald. Derby, Conn. Toy furniture. 1,453,241; Apr. 24.
Dugan, John F., assignor to Laird, Schober and Co., Philadelphia, Pa. Process and machine for making rands. 1,453,042; Apr. 24.
Duncan, David C., Duluth, Minn. Portable gas generator. 1,452,731; Apr. 24.
Du Pont, E. I., de Nemours & Company. (See Kraft, F. G., and Bacon, assignors.)
Dutcher, Frank, Los Angeles, Calif. Window construction. 1,452,732; Apr. 24.
Dyer, Robert J., Oakland, Calif. Kiln. 1,452,638; Apr. 24.
Eaton, Fred A., South Stukely, Quebec, Canada. Mop wringer. 1,452,798; Apr. 24.
Eberhardt, Ernst. (See Gaus, W., Meiser, and Eberhardt.)
Edison, Thomas A., jr., Orange, N. J. Air auxiliary supply means for internal-combustion engines. 1,452,829; Apr. 24.
Ehrbar, George C., Cleveland, Ohio. Furnace grate. 1,453,093; Apr. 24.
Eichenberger, Walter O., Gray, Saskatchewan, Canada. Grain-shocking machine. 1,453,242; Apr. 24.
Eichhorn, Joseph, Columbia, Pa. Adjustable garment. 1,453,243; Apr. 24.
Ellis, Robert H., and F. Simper, Fremantle, Western Australia, Australia. Packing case. 1,453,094; Apr. 24.
Elyria Enameled Products Company. (See Donauer, Max, assignor.)
Emerson, Victor H., New York, N. Y., assignor, by mesne assignments, to Metal Recording Disc Company, Inc. Producing phonograph records. 1,452,872; Apr. 24.
Emmons, Harry H., Alliance, Ohio. Valve. 1,452,962; Apr. 24.
Engle, Paul, et al. (See Webb, Benjamin F., assignor.)
Engstrand, John C., Chicago, Ill. Piston pin. 1,453,095; Apr. 24.
Erhardt, Joseph, Chicago, Ill. Hydraulic lifting jack. 1,453,043; Apr. 24.
Erickson, Edward, Fresno, Calif. Letter file. 1,453,096; Apr. 24
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,254; Apr. 24.
Erpenbeck, Theodore C., Chicago, Ill. Belt buckle. 1,452,799; Apr. 24.
Eschholz, Otto H., Williamsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit interrupter. 1,452,530; Apr. 24.
Esmond Mills, The. (See Andrews, Frederick A., assignor.)
Euphrat, Theophile, Mount Vernon, N. Y. Shade holder. 1,453,099; Apr. 24.
Eve, Percy N. (See Harris, Arthur, assignor.)
Eyr Klean Seat Pad Co. (See Loesch, John J., assignor.)
Fairbanks, Morse & Co. (See Heath, William C., assignor.)
Fairchild, Roland J., assignor to National Water Lift Co., Kalamazoo, Mich. Power pump. 1,452,963; Apr. 24.
Falkenau, Arthur, assignor to Gillis & Geoghegan, New York, N. Y. Hoisting mechanism. 1,452,964; Apr. 24.
Fargo, Charles R., assignor to Wilson-Jones Loose Leaf Company, Chicago, Ill. Combined stand and binder and method of use. 1,453,065; Apr. 24.
Fargo, Charles R., assignor to Wilson-Jones Loose Leaf Company, Chicago, Ill. Binder-locking mechanism. 1,453,066; Apr. 24.
Feiske, Gustave H., Cleveland, Ohio. Universal taper protractor. 1,453,067; Apr. 24.
Ferguson, Milford B., and E. Haas, Brooklyn, N. Y. Label-affixing apparatus. 1,452,830; Apr. 24.
Ferrara, Vincent, Watertown, S. Dak. Apparatus for drying clothes. 1,452,496; Apr. 24.
Ferris, Nunez C., assignor to E. F. Boyle, Brooklyn, N. Y. Apparatus for winding music rolls. 1,452,965; Apr. 24.
Field, Crosby, Yonkers, assignor to Chemical Machinery Corporation, New York, N. Y. Agitator. 1,452,966; Apr. 24.
Fischer, Charles C., Bloomfield, N. J., assignor to American Car and Foundry Company, N. Y. Pipe clamp for steam coils. 1,452,497; Apr. 24.
Fisher, Henry W., Perth Amboy, N. J. Retriever for golf balls. 1,452,679; Apr. 24.
Fitz Gerald, Harold G., Los Angeles, Calif. Lamp. 1,453,044; Apr. 24.
Flagler, Louis B., Butte, Mont. Saw clamp. 1,452,551; Apr. 24.
Flegal, Lorin. Mount Williams, Va. Manifold heater. 1,453,007; Apr. 24.
Fletcher, Elmer, assignor to Fletcher-Wickes Co., Chicago, Ill. Sound box. 1,452,498; Apr. 24.
Fletcher-Wickes Co. (See Fletcher, Elmer, assignor.)
Flinn, Christopher, Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y. Straightening sheet metal. 1,452,499; Apr. 24.
Foley, Charles B., Bristol, Conn., assignor to Charles B. Foley, Inc., New York, N. Y. Multiple-unit induction furnace. 1,453,097; Apr. 24.
Foley, Charles B., Inc. (See Foley, Charles B., assignor.)
Foote, Leonard, Pedro Miguel, Canal Zone, Panama. Gauge. 1,453,222; Apr. 24.
Forsman, Stanton W., Los Angeles, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Croze ring for barrels. 1,453,068; Apr. 24.
Förster, Paul, assignor to Aktiengesellschaft vorm. Adolf Finze & Co., Nuremberg, Germany. Chuck jaw. 1,453,045; Apr. 24.
Fourniaud, Léon J. B., Marseille, France. Rim for wheels of vehicles. 1,452,831; Apr. 24.
Fourniaud, Léon J. B., Marseille, France. Rim for wheels of vehicles. 1,452,832; Apr. 24.
Fowler, Adele. (See Riethmiller, O. C., and Fowler.)
Fox Machine Company. (See Fox, W. R., and Corwin, assignors.)
Fox, William R., and H. D. Corwin, assignors to Fox Machine Company, Jackson, Mich. Multiple-drilling machine. 1,453,008; Apr. 24.
Foxon, Horace M., Brockton, assignor to Lapworth Webbing Company, Stoughton, Mass. Spiral puttee. 1,452,680; Apr. 24.
Franklin Railway Supply Company. (See Woodard, William E., assignor.)
Frear, Leo J., Ithaca, N. Y. Sanitary seat cover. 1,452,552; Apr. 24.
Freedman, Louis A., New York, N. Y. Closure for tubes. 1,452,967; Apr. 24.
Freeman Manufacturing Co. (See Freeman, Michael N., assignor.)
Freeman, Michael N., assignor to Freeman Manufacturing Co., Racine, Wis. Pump-operating mechanism. 1,452,968; Apr. 24.
French, George M., Chicago, Ill. Boat-hull construction. 1,453,223; Apr. 24.
Fried. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Fritsche, Wenzel, New York, N. Y. Apparatus for automatically focusing multiple-exposure cameras. 1,452,833; Apr. 24.
Frock, Oscar J., Wilmington, Del. Pressure equaliser for hydraulic brakes. 1,453,098; Apr. 24.
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, Department of Seine, France. Measuring instrument. 1,452,834; Apr. 24.
Fujimoto, Motozo, and T. Okawa, Portland, Oreg. Auto signal. 1,452,681; Apr. 24.
Fulgora, Fred, Pittsburgh, Pa. Calculating device. 1,453,100; Apr. 24.
Fuller Engineering Company. (See Barnhurst, Henry G., assignor.)
Gabke, John S., Wilmington, Del. Toy vehicle. 1,453,046; Apr. 24.
Gable, Charley, et al. (See Richards, Jesse D., assignor.)
Galerman, Benjamin, Philadelphia, Pa. Burglar-alarm apparatus. 1,452,500; Apr. 24.
Galoppa, Jerry. (See Ugnon, C., Galoppa, and Saldarini.)
Ganz, William, Chicago, Ill. Lock for steering gears. 1,453,256; Apr. 24.
Gardner, Henry A., Washington, D. C. Dechlorinated chlorinated-glycerides and derivatives therefrom. 1,452,553; Apr. 24.
Gardner, Samuel L., Cedar Rapids, Iowa. Auxiliary tie rod. 1,452,554; Apr. 24.
Garlock, William H., Seattle, Wash. Surgical apparatus. 1,452,733; Apr. 24.
Garrigue, William, & Company. (See Sanger, Walter E., assignor.)
Gasoline Recovery Corporation. (See Voress, C. L., and Canter, assignors.)
Gasser, Joseph, Trenton, N. J. Combined high-hoist and dump wagon. 1,452,501; Apr. 24.
Gaus, Wilhelm, W. Meiser, and E. Eberhardt, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of urea. 1,453,069; Apr. 24.
Gavin, Martin J. (See Bowie, C. P., and Gavin.)
Gewerkschaft Hausbach II. (See Weber, Wilhelm, assignor.)
Geyer, Edgar, Silver Creek, Nebr. Detachable, swinging, washboiler apron. 1,452,682; Apr. 24.
Gifford, Xenas A., Lockport, N. Y. Sign exhibit. 1,452,873; Apr. 24.
Giles, John W., Greenville, S. C. Yarn let-off connection. 1,453,101; Apr. 24.
Gillenwater, Jesse D., et al. (See Richards, Jesse D., assignor.)
Gillis & Geoghegan. (See Falkenau, Arthur, assignor.)
Ginger, Henry, Waltham Cross, England. Heating and lighting radiator. 1,452,800; Apr. 24.
Gissler, August, New York, N. Y. Brush. 1,452,502; Apr. 24.

Gleason, Frederick J., Cambridge, assignor of one-half to M. Brown, Boston, Mass. Making brake linings and the like. 1,452,555; Apr. 24.
Goddard, George E., assignor to Dodge Brothers, Detroit, Mich. Demountable wheel. 1,452,597; Apr. 24.
Goldman, William L., Los Angeles, Calif. Mechanical toy. 1,452,835; Apr. 24.
Good Inventions Co. (See Good, John, assignor.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Engine-fuel vaporizer. 1,452,683; Apr. 24.
Goodchild, Walter, Oakland, assignor to "Nipa" Incorporated, Hoboken, N. J. Manufacture of capillary containers and dispensers. 1,452,801; Apr. 24.
Goode, William W., Arlington, Ala. Powder duster. 1,453,102; Apr. 24.
Goodman Manufacturing Company. (See Packer, Glenn W., assignor.)
Goodrich, B. F., Company, The. (See Pigeon, Ernest A., assignor.)
Gorendo, Oscar W., Buffalo, N. Y. Chatterless lug and pedal-shaft support. 1,452,910; Apr. 24.
Gott, Arthur E., Southall, England. Gyroscopic compass. 1,453,103; Apr. 24.
Gould Coupler Company. (See Blake, Eli J., assignor.)
Gray, Hiram C., Bucyrus, Ohio. Sash fastener. 1,452,596; Apr. 24.
Gray, Malcolm E., assignor to Rochester Can Company, Rochester, N. Y. Pail. Des. 62,233; Apr. 24.
Gray, Percy W., assignor to Vickers Limited, Westminster, London, England. Apparatus for use in the laying or sighting of ordnance. 1,453,104; Apr. 24.
Gregg, William H. (See Hachmann, Frederick, assignor.)
Gresczsuk, Joseph, Brooklyn, N. Y. Automobile tire. 1,453,224; Apr. 24.
Grid-Iron-Grip Company. (See Slauson, Louis E., assignor.)
Grieger, Edward, Philadelphia, Pa. Stop device for talking machines. 1,453,131; Apr. 24.
Griesche, Gustav, Berkeley, Calif. Rock drill. 1,452,734; Apr. 24.
Griggs, Victor R. (See Morton, William R., assignor.)
Gronsdahl, Martin, Congress, Saskatchewan, Canada. High chair. 1,452,911; Apr. 24.
Grove, Elias H. (See Jenness, Frank C., assignor.)
Grubb, William B., Philadelphia, Pa. Lock. 1,452,503; Apr. 24.
Gruss, Walter C., Pittsburgh, Pa. Bootjack. 1,453,105; Apr. 24.
Guckert, Edward N., Toledo, Ohio. Stringed musical instrument. Des. 62,235; Apr. 24.
Gumz, Johann H. (See Mackey, F. C., and Gumz.)
Gurr, Thomas S., et al. (See Bryan, William G., assignor.)
H. & B. American Machine Company. (See Adkinson, William, assignor.)
Haas, Edward. (See Ferguson, M. B., and Haas.)
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Metal book cover. 1,452,802; Apr. 24.
Hackett, William. (See Band, Stephen W., assignor.)
Hackworth, Alfred and J., Ironton, Ohio. Car-controlling mechanism. 1,452,556; Apr. 24.
Hackworth, Jesse. (See Hackworth, Alfred and J.)
Hadley, Carrie B. (See Hadley, Walter B., assignor.)
Hadley, Walter B., assignor to C. B. Hadley, Grand Rapids, Mich. Baker's implement. 1,452,504; Apr. 24.
Hain, Benjamin T., Chicago, Ill., assignor to Beneke & Kropf Mfg. Co. Hinge. 1,453,106; Apr. 24.
Hames, Harry C., assignor to F. O. Schoedinger, Columbus, Ohio. Roof lug. 1,452,599; Apr. 24.
Hamilton, David, Greensburg, Pa. Glass facing. 1,452,684; Apr. 24.
Hamm, Wesley, Dolgeville, N. Y. Handle for baskets, satchels, and like containers. 1,453,107; Apr. 24.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Co. Door. 1,452,685; Apr. 24.
Hammond, Myron B. (See Taylor, H. H., and Hammond.)
Hamre, Henry O. (See Starks, Ray S., assignor.)
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Actuating means for milking-machine pulsators. 1,452,600; Apr. 24.
Hardie, James, and Company Limited. (See Newman, John G., assignor.)
Harklow, Hans H. H., Freeport, N. Y. Derrick. 1,453,108; Apr. 24.
Harman, Ferrin C. (See Harman, Henry and F. C.)
Harman, Henry, and F. C., Custer City, Okla. Antidrip pump. 1,452,686; Apr. 24.
Harmer, Joseph P. (See Hussey, Lindley M., assignor.)
Harpham, Julius C., Lincoln, Nebr. Harness rosette. Des. 62,255; Apr. 24.
Harpham, Julius C., Lincoln, Nebr. Harness rosette. Des. 62,256; Apr. 24.
Harris & Wolfrey. (See Harris, Luther E., assignor.)
Harris, Arthur, Romford, assignor of one-half to P. N. Eve, Upminster, England. Racket for tennis and like games. 1,452,803; Apr. 24.
Harris, Luther E., Philadelphia, Pa., assignor to Harris & Wolfrey. Buffer block. 1,453,225; Apr. 24.
Harroun, Ray, Detroit, Mich. Tractor. 1,452,557; Apr. 24.
Hart, Franklin H., assignor to C. Cowles and Company, New Haven, Conn. Curtain roller. 1,422,874; Apr. 24.
Hartenstein, Willy, Darmstadt, Germany, assignor to J. Aman, Rutherford, N. J. Plow for planting potatoes. 1,452,912; Apr. 24.
Hartup, Frank E., assignor of one-half to W. M. Kunkel, Indianapolis, Ind. Device for turning music. 1,452,804; Apr. 24.
Harvey, Gerald H., Cincinnati, Ohio. Vehicle lighting device. 1,453,226; Apr. 24.
Hathaway, Robert W., assignor of one-half to H. Powell, Springfield, Ohio. Cistern. 1,453,109; Apr. 24.
Hawley, James H., Stockbridge, Mich. Transmission control. 1,452,505; Apr. 24.
Haworth, Henry G., assignor of one-half to B. F. Samuels, Leavenworth, Kans. Street-sweeping machine. 1,452,735; Apr. 24.
Healy, George E., Buffalo, N. Y. Street safety zone. 1,452,875; Apr. 24.
Heath, William C., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Ignition system for combustion engines. 1,452,601; Apr. 24.
Hebbard, Charles C., assignor of one-third to E. H. Shackelford and one-third to O. Ruhl, Joplin, Mo. Concentrating table. 1,452,969; Apr. 24.
Heinemann, Karl, Heidenau, Germany. Recovery of pure alkalies from impure lyes. 1,453,132; Apr. 24.
Heinse, John O., Lakeland, Fla. Lathe tool. 1,453,133; Apr. 24.
Heinse, John O., Lakeland, Fla. Tractor. 1,453,134; Apr. 24.
Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Embroidering attachment for sewing machines. 1,452,687; Apr. 24.
Hemsley, George T., Lawrence, Mass. Top screw for gill-drawing frames. 1,453,009; Apr. 24.
Hemsley, George T., Lawrence, Mass. Cam for gill boxes. 1,453,010; Apr. 24.
Henry, Rutherford M. (See Smith, George M., assignor.)
Henting, Charles J., Milwaukee, Wis. Luggage carrier and tire rack. 1,452,970; Apr. 24.
Herman Pneumatic Machine Company. (See Ringle, Robert F., assignor.)
Hermanson, August L., Nome, Alaska. Floating fish trap. 1,453,135; Apr. 24.
Herr, Herbert T. Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine-blade fastening. 1,452,602; Apr. 24.
Hershey, George S. (See Boyd, C. T., and Hershey.)
Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Cam chuck for centering valves. 1,452,506; Apr. 24.
Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Rivet sets. 1,452,507; Apr. 24.
Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Machine for grinding valves. 1,452,508; Apr. 24.
Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Grinding machine. 1,452,509; Apr. 24.
Herz, Richard, Frankfort-on-the-Main, and H. Balhorn, Hochst-on-the-Main, Germany, assignors to Leopold Cassella & Co., Gesellschaft mit beschränkter Haftung. Dyestuffs containing sulphur and dyeing vegetable fibers without a mordant and making same. 1,452,805; Apr. 24.
Heydt, Johannes. (See Ruperti, Henri, assignor.)
Heyser, John A., Los Angeles, Calif. Brake. 1,452,736; Apr. 24.
Hird, Charles, Hartford, Conn., assignor to S. K. F. Ball Bearing Company. Chuck. 1,453,110; Apr. 24.
Hill, Frederick M., Chicago, Ill. Signaling device. 1,452,737; Apr. 24.
Hill, W. A. (See Kaufmann, Florence A., assignor.)
Himes, Howard P., Detroit, Mich. Bearing. 1,452,603; Apr. 24.
Hitchcock, Walter E., Blanchard, Iowa. Culvert. 1,453,136; Apr. 24.
Hoberg, William J., Jersey City, N. J. Abrasive device. 1,452,738; Apr. 24.
Hobson, Bennett D., Richmond, Va. Device for extricating mud-stalled vehicles. 1,453,011; Apr. 24.
Hockins, Charles C., Rochester, N. Y. Humidifier. 1,453,137; Apr. 24.
Hodes, Frank E., Denver, Colo. Carboy. 1,452,971; Apr. 24.
Hodges Finishing Company. (See Brindley, Joseph F., assignor.)
Hollenbeck, Paul V., New York, N. Y., assignor to International Paper Company. Mechanism for measuring cubic contents of bodies. 1,453,112; Apr. 24.
Hollenbeck, Paul V., New York, N. Y., assignor to International Paper Company. Mechanism for measuring the cubic contents of bodies. 1,453,111; Apr. 24.
Holliday, Custer B., Charleston, W. Va. Socket. 1,453,138; Apr. 24.
Holway, Orlando G., Chippewa Falls, Wis. Vehicle trunk rack. 1,452,639; Apr. 24.
Honstetter, Emil. (See Chinsky, H. H., and Honstetter.)
Hood, John J., London, J. Clark, Hutton, and P. G. Clark, London, England. Decolorising and purification of saccharine materials. 1,452,739; Apr. 24.
Hood Rubber Company. (See Perrault, Joseph E., assignor.)
Hoover, Austin W., and R. Winter, jr., Irwin, Pa. Tone arm. Des. 62,257; Apr. 24.

Hoover, Austin W., and R. Winter, jr., Irwin, Pa. Tone arm. Des. 62,258; Apr. 24.
Hopkins, Archibald E., Middletown, assignor to The Borden Company, New York, N. Y. Wrapping machine. 1,452,604; Apr. 24.
Hopkins, Nevil M., New York, N. Y., assignor to National Carbon Co. Inc. Storage-battery vent. 1,452,806; Apr. 24.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Signal system and transmitter therefor. 1,452,972; Apr. 24.
Hormel, August. (See Wagner, C., and Hormel.)
Howland, Chester S., New Bedford, Mass. Film holder. 1,453,244; Apr. 24.
Hoyt, Homer J., Detroit, Mich., assignor to Morgan & Wright. Conveyer system. 1,452,836; Apr. 24.
Hrib, George. (See Lyeso, George, assignor.)
Hubble, Grover C., Bonners Ferry, Idaho. Voltage-controlling device for dynamos. 1,452,688; Apr. 24.
Huffman, Reuel L., Brookfield, Mo. Button. 1,453,245; Apr. 24.
Hughes, Earl V., Andrews, Ind., assignor to Wasmuth-Endicott Company. Cabinet door. 1,452,913; Apr. 24.
Hughes, William B., Newcastle, Ind. Vehicle tongue. 1,452,876; Apr. 24.
Hulick, Samuel C., Spokane, Wash. Camp cooker. 1,452,640; Apr. 24.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. System of distribution. 1,452,877; Apr. 24.
Hultquist, Charles A., Los Angeles, Calif. Fluid-operated drill. 1,452,689; Apr. 24.
Hussey, Lindley M., assignor to J. P. Harmer, Philadelphia, Pa. Arsenical compound. 1,452,605; Apr. 24.
Huston, John L., Boston, Mass., assignor to The Miller Lock Company, Philadelphia, Pa. Tire lock. 1,453,139; Apr. 24.
Hutchins, Edward, New York, N. Y., assignor to International Paper Company. Drying cylinder. 1,453,113; Apr. 24.
Hyman & Oppenheim. (See Oppenheim, Jesse, assignor.)
Ideal Automatic Train Control Company, The. (See Call, Ira A. and J. C., assignors.)
Inland Steel Company. (See Stefan, Jacob, jr., assignor.)
International Paper Company. (See Hollenbeck, Paul V., assignor.)
International Paper Company. (See Hutchins, Edward, assignor.)
Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. 1,452,837; Apr. 24.
Jackson, Crusselle B., Hartsells, Ala. Tire protector. 1,453,140; Apr. 24.
Jackson, Harry L., Palo Alto, Calif. Handwheel grip. 1,453,012; Apr. 24.
Jackson, Whitnell H., Bowling Green, Ky. Cover for food receptacles. 1,452,558; Apr. 24.
Jacobs, Clare S., assignor to Tube Products Company, Detroit, Mich. Feed mechanism for swaging machines. 1,452,740; Apr. 24.
Jacobs, James M. H., assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio. Aeroplane wing. 1,452,641; Apr. 24.
Jacoby, Henry C. E. (See Mossay, P. A. H., and Jacoby.)
Jahr, Arthur A. (See Widell, M. E., and Jahr.)
James, William E., St. Louis, Mo. Buckle. 1,452,914; Apr. 24.
Jantz, Edmund F., Chicago, Ill. Collar wrapper. 1,453,070; Apr. 24.
Jardine, Robert, assignor to Rich Tool Company, Chicago, Ill. Apparatus for making motor valves. 1,452,510; Apr. 24.
Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
Jenkins, Thomas B., assignor to Jenkins Vulcan Spring Company, Richmond, Ind. Shock-absorber spring. 1,452,973; Apr. 24.
Jenkins Vulcan Spring Company. (See Jenkins, Thomas B., assignor.)
Jenness, Frank C., assignor of one-half to E. H. Grove, Los Angeles, Calif. Stylus guide for psychic games. 1,452,741; Apr. 24.
Jennings, John D., Charleston, S. C. Burial apparatus. 1,453,141; Apr. 24.
Jewett Refrigerator Company, The. (See Statler, William J., assignor.)
John, Robert, New York, N. Y., assignor to Daylight Film Corporation. Making a contact transfer printing surface with a colored emulsion. 1,453,258; Apr. 24.
John, Robert, New York, N. Y. Printing plate and process and composition of matter for forming the same and printing. 1,453,259; Apr. 24.
Johnson, Charles E., assignor to The Piston Ring Company, Muskegon, Mich. Piston. 1,452,807; Apr. 24.
Johnson, Edwin, Osnabrock, N. Dak. Automatic stop for windmill pumps. 1,453,142; Apr. 24.
Johnson, Harry L. (See Kearney, J. R., and Johnson.)
Johnson, Henry E., Milwaukie, Oreg. Concrete mixer. 1,453,047; Apr. 24.
Johnson, Jesse C., San Francisco, Calif. Oil-burner construction. 1,452,559; Apr. 24.
Johnson, Jesse C., San Francisco, Calif. Pressure-control valve. 1,452,560; Apr. 24.
Johnson, Oscar H., and H. F. Webb, assignors to The Mine & Smelter Supply Company, Denver, Colo. Drum feeder. 1,453,143; Apr. 24.
Johnson, William S., and J. W. Sheffer, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo. Electric rivet heater. 1,452,511; Apr. 24.
Johnson, William S., and J. W. Sheffer, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo. Electric rivet heater. 1,452,512; Apr. 24.
Johnson, William S., and J. W. Sheffer, Berwick, Pa., assignors to American Car and Foundry Company, St. Louis, Mo. Electric rivet heater. 1,452,513; Apr. 24.
Johnston, Robert J., Kansas City, assignor of one-half to G. F. Rogge, Corder, Mo. Apparatus for manufacture of wall board. 1,452,742; Apr. 24.
Jones, Emily, Brooklyn, N. Y. Scissors sharpener. 1,453,246; Apr. 24.
Jones, Milton D., Cleveland, Ohio. Car-dumping machine. 1,452,606; Apr. 24.
Juer, George, Hopewell, Va., assignor to Tubize Artificial Silk Company of America, Wilmington, Del. Artificial-silk-spinning machine. 1,452,607; Apr. 24.
Kägi, Emil, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Controlling means for internal-combustion-engine plants. 1,452,561; Apr. 24.
Kalmus, Comstock & Wescott, Inc. (See Atwood, Francis C., assignor.)
Kane, Edmund J., Chicago, Ill. Power-operated crane. 1,452,690; Apr. 24.
Karitzky, John, Garwood, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Bolt anchor. 1,452,514; Apr. 24.
Karl, Andrew J., et al. (See Webb, Benjamin F., assignor.)
Karmann, Michael, Highland Park, Mich. Artificial tooth. 1,452,878; Apr. 24.
Kartzmark, Otto, West Haven, Conn. Dispensing receptacle. 1,452,691; Apr. 24.
Kaufmann, Florence A., assignor to W. A. Hill, Kansas City, Mo. Soft-collar supporter. 1,453,144; Apr. 24.
Kearney, James R., and H. L. Johnson, Kansas City, Mo. Wall bracket. 1,452,515; Apr. 24.
Keating, Frank J., Rochester, N. Y. Combination pliers. 1,452,642; Apr. 24.
Kell, Morris, New Orleans, La. Separable fastener. 1,452,743; Apr. 24.
Keller, Cora E., Springfield, Mo. Suspenders for children's clothes. 1,452,643; Apr. 24.
Kellogg Switchboard and Supply Company. (See Sparks, C., and Shull, assignors.)
Kennedy Car Liner & Bag Co., The. (See Kennedy, Frederick W., assignor.)
Kennedy, Frederick W., Shelbyville, Ind., assignor to The Kennedy Car Liner & Bag Co. Garment bag. 1,452,644; Apr. 24.
Kennedy, George, Covington, La. Support for invalids. 1,452,915; Apr. 24.
Kennedy, Howard A., Latonia, Ky. Combined ratchet wrench and tool holder. 1,453,145; Apr. 24.
Kern, Isidor. (See Newman, I., and Kern.)
Kern, Mamie. (See Newman, I., and Kern.)
Kiggins, Charles A., Weskan, Kans. Spring wheel. 1,453,247; Apr. 24.
Killefer Manufacturing Company. (See Watters, Daniel M., assignor.)
Kimman, Theodore P. (See Callan, W. H., and Kimman.)
King, James D., Chicago, Ill. Automobile lock. 1,452,879; Apr. 24.
Kinney, John J., assignor to Columbian Rope Company, Auburn, N. Y. Spinning-jenny nipper. 1,453,146; Apr. 24.
Kippenhan, William, Alleton, Wis. Motor-driven land roller. 1,452,974; Apr. 24.
Kircher, Carl. (See Bosch, C., Dehnel, and Kircher.)
Kirst, John P., Ohio, Ill. Toy elevator. 1,452,608; Apr. 24.
Kistner, Charles E., Cincinnati, Ohio. Dirigible automobile lamp device. 1,452,916; Apr. 24.
Kleeman, William, Hartwell, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Forming and form-retaining means for plastic, or semi-plastic, or similar materials. 1,453,071; Apr. 24.
Klein, Paul M., Cedarhurst, N. Y. Piston ring and making same. 1,452,645; Apr. 24.
Kleinfield, Irving L., Brooklyn, N. Y. Electric-lamp stand. Des. 62,236; Apr. 24.
Kleinfield, Irving L., Brooklyn, N. Y. Electric-lamp stand. Des. 62,237; Apr. 24.
Kleinfield, Irving L., Brooklyn, N. Y. Electric lamp stand. Des. 62,238; Apr. 24.
Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Friction clutch. 1,452,609; Apr. 24.
Klosner, Morris, New York, N. Y. Electrical condenser. 1,452,610; Apr. 24.
Knapp Brothers Manufacturing Company. (See Knapp, George A., assignor.)
Knapp, George A., Chicago, Ill., assignor to Knapp Brothers Manufacturing Company. Metallic baseboard structure. 1,453,072; Apr. 24.

Knapp, Horace G., assignor to Knapp Plow Co., Inc., San Jose, Calif. Plowlift. 1,452,744; Apr. 24.
Knapp Plow Co. (See Knapp, Horace G., assignor.)
Koenigkramer, Frank, Cincinnati, Ohio, assignor to J. V. McManis, Kirksville, Mo. Treatment table. 1,453,013; Apr. 24.
Kohn, Koby, New York, N. Y., assignor to Victory Sparkler & Specialty Co., Elkton, Md. Combined razor and brush. 1,453,014; Apr. 24.
Kooper Damper Co. (See Cooper, Thomas S., jr., assignor.)
Kornblum, Morris, Brooklyn, N. Y. Combined lamp shade and stand. Des. 62,239; Apr. 24.
Kovacs, Joseph J., Orange, N. J. Lens-grinder attachment. 1,452,917; Apr. 24.
Kraft, Frederick G., and C. J. Bacon, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinneret. 1,453,048; Apr. 24.
Krauss, Charles A., Philadelphia, Pa. Bail for receptacles. 1,452,562; Apr. 24.
Kritikson Bros., Inc. (See Barnes, Albert E., assignor.)
Kunkel, William M. (See Hartup, Frank E., assignor.)
Kuns, Alphonse M., St. Louis, Mo. Necktie display and illuminating stand. 1,453,147; Apr. 24.
Kurtis, Angel (now by judicial change of name Angelos Kurtis), Boston, Mass. Metallic heel for shoes and the like. 1,453,253; Apr. 24.
Kurtis, Angelos. (See Kurtis, Angel.)
La Croix, Cicero H., Bannister, Tex. Insect destroyer. 1,452,918; Apr. 24.
Laird, Schober and Co. (See Dugan, John F., assignor.)
Lakewood Engineering Company. (See Blass, Carl J., assignor.)
Lambert, Victor, Brooklyn, N. Y. Can opener. 1,452,516; Apr. 24.
Landau, John A., New York, N. Y. Garment hanger. 1,452,745; Apr. 24.
Landry, Walter A. (See Rumford, Harry R., assignor.)
Lang, Philip G., jr. (See Parks, E. F., jr., and Lang.)
Lange, William C., temporary administrator. (See Rapp, J. W., and Vanorio.)
Lapworth Webbing Company. (See Foxon, Horace M., assignor.)
La Societe La Cellophane. (See Brandenberger, Jaques E., assignor.)
Laureyns, Gustave G., Newark, N. J. Safety mechanism for elevator shaft doors. 1,453,073; Apr. 24.
Laureyns, Gustave G., Newark, N. J. Safety appliance for elevator-car gates and elevator-shaft doors. 1,453,074; Apr. 24.
Lavigne, Joseph W., Worcester, Mass. Drinking cup. 1,453,015; Apr. 24.
Lazaga, Ignacio, Salem, Va. Machine for packaging articles. 1,452,692; Apr. 24.
Lee, Frederick C., Toronto, Ontario, Canada. Fishing-rod handle. 1,452,808; Apr. 24.
Lee, Henry J., Fountain Run, Ky. Collapsible crate. 1,453,148; Apr. 24.
Le Fevre, George A., Richmond Hill, assignor to Paxfiat Barrel & Crate Corporation, New York, N. Y. Knock-down barrel. 1,452,880; Apr. 24.
Leidy, Norman J., Philadelphia, Pa. Ornamental casing for automobile headlights. 1,453,075; Apr. 24.
Leister, William H., assignor to The United Machinery Company, Westminster, Md. Green-corn-debutting machine. 1,453,248; Apr. 24.
Lenief, André, Paris, France. Toothbrush. 1,453,149; Apr. 24.
Leopold Cassella & Co. Gesellschaft mit beschränkter Haftung. (See Herz, R., and Balhorn, assignors.)
Lepow, Eva, Philadelphia, Pa. Stocking. 1,452,517; Apr. 24.
Levine, Arthur H., New York, N. Y. Ornamenting surfaces. 1,453,076; Apr. 24.
Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. 1,452,975; Apr. 24.
Lewis, Frederick O., Dayton, assignor of one-half to O. B. Reemelin, Oakwood, Ohio. Thermostatic valve for carburetors. 1,453,016; Apr. 24.
Lewis, Leland J., assignor of one-half to R. H. McKee, New York, N. Y. Fat-splitting reagent and making the same. 1,452,881; Apr. 24.
Lewis, William K., Omaha, Nebr. Oil burner. 1,452,563; Apr. 24.
Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)
Lichtenstein, Edward N., Baltimore, Md. Fountain bath brush. 1,452,976; Apr. 24.
Liddell, Moses V., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Street sweeper. 1,453,049; Apr. 24.
Lincoln, William W., Washington, D. C. Direction signal for automobiles. Re15,584; Apr. 24.
Lindelof, Gustaf H., De Kalb, Ill. Wall bridge for switches. 1,453,017; Apr. 24.
Lininger, William. (See White, H. W., and Lininger.)
Link, Vincent, Detroit, Mich., assignor to Studebaker Corporation. Braking mechanism. 1,453,050; Apr. 24.
Loehler, Martial J., Asnieres, France. Rotary mold for molding milling cutters by centrifugal force. 1,452,838; Apr. 24.
Loesch, John J., assignor to Evr Klean Seat Pad Co., St. Louis, Mo. Seat cover. 1,452,882; Apr. 24.
Loesch, Milton C., assignor of one-half to W. F. Ryan, Cincinnati, Ohio. Vaporizer for combustion engines. 1,452,883; Apr. 24.
Logue, John, Philadelphia, Pa. Workholding and positioning device for rule and border type or slug-cutting machines. 1,452,809; Apr. 24.
Lord, Hugh C., Erie, Pa. Oscillating joint. 1,452,693; Apr. 24.
Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. 1,452,839; Apr. 24.
Loveland, Clyde B., Buffalo, N. Y. Key fastener. 1,452,646; Apr. 24.
Lowenstein, M., & Sons, Inc. (See Reimann, Paul, assignor.)
Lowenstein, M., & Sons, Inc. (See Sonntag, Eugene, jr., assignor.)
Lund, Andrew G., St. Paul, Minn. Record-sheet holder and protector. 1,452,694; Apr. 24.
Lunden, Harald L. R. (See Thorssell, C. T., and Lunden.)
Lunken, Edmund H., Cincinnati, Ohio. Window shade. 1,452,611; Apr. 24.
Lyding, Peter R., Sacramento, Calif. Poultry house. 1,452,746; Apr. 24.
Lyeso, George, assignor of one-half to G. Hrib, Simpson, W. Va. Slicing machine. 1,452,564; Apr. 24.
McBee Binder Company, The. (See McBee, Charles F., assignor.)
McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Binding machine. 1,452,565; Apr. 24.
McCloud, John M., Brooklyn, N. Y. Mount for vehicle curtain window panes. 1,452,612; Apr. 24.
McCormick, Joseph H., South Pittsburg, Tenn. Vehicle tire. 1,453,150; Apr. 24.
McCulloch, Albert P., Dorchester, Mass. Timer. 1,452,884; Apr. 24.
McDonnell, Alexander J. V., London, England. Pocket sterilizing case for clinical thermometers. 1,453,151; Apr. 24.
McGraw, William T., Detroit, Mich. Account-filing cabinet. 1,452,919; Apr. 24.
McGregor, James D., assignor to Brantford Computing Scales, Ltd., Brantford, Ontario, Canada. Price-scale cabing. Des. 62,234; Apr. 24.
McHewitt, William, and H. G. Brandt, Burlington, Iowa. Tool. 1,453,018; Apr. 24.
McKee, Ralph H. (See Lewis, Leland J., assignor.)
McLellan, John, Providence, R. I., assignor, by mesne assignments, to Multiple Drilling Machine Company. Multiple-drill machine. 1,452,920; Apr. 24.
McLellan, John, Providence, R. I., assignor, by mesne assignments, to Multiple Drilling Machine Company. Multiple-drill machine. 1,452,921; Apr. 24.
McManis, John V. (See Koenigkramer, Frank, assignor.)
McVicker, Robert J., New York, N. Y. Fountain pen. 1,453,152; Apr. 24.
MacIntosh, George P., Wakefield, Mass. Felly-engaging antiskid-chain-anchoring means. 1,452,885; Apr. 24.
MacIntosh, George P., Wakefield, Mass. Spoke-engaging antiskid-chain-anchoring means. 1,452,886; Apr. 24.
Mackey, Frederic C., and J. H. Gumz, Chicago, Ill. Enameling furnace. 1,453,051; Apr. 24.
Macomic, Chester A. (See Webster, Bester R., assignor.)
Mainwaring, John W., Brooklyn, N. Y. Piston-ring holder. 1,452,518; Apr. 24.
Mallory, Harry C., Bellport, N. Y. Automatic temperature-controlling means. 1,452,748; Apr. 24.
Malovich, Franjo, Chicago, Ill. Cabinet. Des. 62,240; Apr. 24.
Manville, E. J., Machine Company, The. (See Smith, Henry L., assignor.)
Marciniak, Michael, assignor of one-half to M. W. Olszewski, Duluth, Minn. Occupant-steered sled. 1,453,153; Apr. 24.
Markos, Gus W., Columbus, Ohio. Safety pin. 1,452,747; Apr. 24.
Marlow, John H., Stoke-upon-Trent, England. Gas-fired oven or kiln. 1,452,887; Apr. 24.
Marsh, Clifford W., Bridgeport, Conn. Gluing machine. 1,452,888; Apr. 24.
Martin, Harvey A., Brady, Tex. Drill-bit swelling and dressing apparatus. 1,453,154; Apr. 24.
Martin, Henry F., assignor to Detroit Hoist and Machine Company, Detroit, Mich. Lifting truck. 1,452,566; Apr. 24.
Martinez, Matias B., Guasti, Calif. Combination tool. 1,453,155; Apr. 24.
Marx, Joseph J. (See Brunk, Oscar E. W., assignor.)
Mason, John, Philadelphia, Pa. Dispensing device. 1,452,922; Apr. 24.
Mason, Wesley W., Baltimore, Md. Closure for containers. 1,453,077; Apr. 24.
Mather, Richard. (See Moore, H., and Mather.)
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Sole plate for golf clubs. 1,452,695; Apr. 24.
May, George W., Akron, Ohio. Horseshoe for pitching contests. 1,453,156; Apr. 24.
Mayberry, James D., Minneapolis, Minn. Convertible chair, ironing board, and table. 1,452,749; Apr. 24.
Mead, Charles M., Los Angeles, Calif. Safety signal for vehicles. 1,452,647; Apr. 24.

Mead, James S., Cincinnati, Ohio. Necktie holder. 1,452,648; Apr. 24.
Medeiros, Antone B. (See Medeiros, Ernest B. and A. B.)
Medeiros, Ernest B. and A. B., New Bedford, Mass. Torch holder for musical instruments. 1,452,977; Apr. 24.
Mein, Stewart, B., Philadelphia, Pa. Holder for desk or memorandum pads. 1,453,052; Apr. 24.
Meiser, Wilhelm. (See Gans, W., Meiser, and Eberhardt.)
Mesker Brothers Iron Company. (See Mesker, F., Smith, and Beuc, assignors.)
Mesker, Frank, C. E. Smith, and J. Beuc, assignors to Mesker Brothers Iron Company, St. Louis, Mo. Metal window construction. 1,452,519; Apr. 24.
Metal Recording Disc Company. (See Emerson, Victor H., assignor.)
Meyer, August H., Plauen, Germany. Device for the production of crochet seams and patterns in embroidery machines. 1,452,840; Apr. 24.
Meyer, Waldemar, Woodhaven, N. Y. Magnetic holder-on. 1,452,841; Apr. 24.
Miessner, John, Cleveland, Ohio. Clothesline reel. 1,453,157; Apr. 24.
Miller, Charles H., and A. N. Scott, assignors to The Diebold Safe & Lock Company, Canton, Ohio. Auxiliary locking bolt. 1,452,567; Apr. 24.
Miller, John P., Duryea, assignor of one-half to H. S. Woodward, Carbondale, Pa. Locking device for mine cars. 1,452,923; Apr. 24.
Miller, John S., jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Making parti-colored bituminous roofing shingles. 1,452,978; Apr. 24.
Miller, Joseph N., Brainerd, Minn. Combined settee and table. 1,452,613; Apr. 24.
Miller Lock Company, The. (See Huston, John L., assignor.)
Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Needle-controlling mechanism for knitting machines. 1,452,842; Apr. 24.
Miller Rubber Company, The. (See Riley, Ralph, assignor.)
Mills, Frank W., Chicago, Ill. Coin detector. 1,452,979; Apr. 24.
Mills, Frank W., Chicago, Ill. Ball-bearing coin detector. 1,452,980; Apr. 24.
Milwaukee Manufacturing Co. (See Strauss, Norbert F., assignor.)
Mine & Smelter Supply Company, The. (See Johnson, O. H., and Webb, assignors.)
Minney, Arthur W., assignor of one-half to F. L. Boyd, Stockton, Calif. Car-wheel boxing and oiling device. 1,453,158; Apr. 24.
Mitscherling, Waldemar O., assignor to Atlas Powder Company, Wilmington, Del. Carrying out continuous fusions. 1,452,520; Apr. 24.
Mock, George R., assignor of one-third to R. L. Campbell, Chicago, Ill. Supplemental work support for portable sewing machines. 1,452,696; Apr. 24.
Molins, Walter E., London, England. Sheet feeder. 1,453,019; Apr. 24.
Montgomery, Charles H., Fredericksburg, Va. Unloading mechanism for freight cars. 1,452,649; Apr. 24.
Moon Brothers Manufacturing Company. (See Snell, Samuel A., assignor.)
Moore, Harold and R. Mather, Woolwich, England. Apparatus for testing the hardness of metals and other materials. 1,452,510; Apr. 24.
Morgan & Wright. (See Hoyt, Homer J., assignor.)
Morin, Amos. (See Butler, O., and Morin.)
Morrill, Richard R., Palo Alto, Calif., assignor to Oliver Oil-Gas Burner and Machine Company, St. Louis, Mo. Oil burner. 1,452,521; Apr. 24.
Morrisey, William J., Los Angeles, Calif. Toy. Des. 62,241; Apr. 24.
Morton, William R., assignor of one-half to V. R. Griggs, Havre, Mont. Shock absorber. 1,452,568; Apr. 24.
Moses, William S., Onamia, Minn. Instrument for the survey and solution of plane triangles in field work. 1,453,078; Apr. 24.
Mossay, Paul A. H. and H. C. E. Jacoby, London, England. Cooling of dynamo-electric machines. 1,453,159; Apr. 24.
Muehie, Herman, Cleveland, Ohio. Fastening device. 1,452,981; Apr. 24.
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Compression cock. 1,452,811; Apr. 24.
Mullen, John E., New Duluth, Minn. Agricultural machine. 1,452,697; Apr. 24.
Müller, Emil, Berlin, Germany. Central buffer for short couplings of railway vehicles. 1,453,160; Apr. 24.
Mulligan, Arthur de W., London, England. Readily-fusible alloy. 1,422,750; Apr. 24.
Multiple Drilling Machine Company. (See McLellan, John, assignor.)
Mummery, Clyde W., Richmond, Mich. Burner. 1,452,650; Apr. 24.
Murmann, Eugene O., Glendale, Calif. Lock. 1,452,812; Apr. 24.
Murphy Iron Works. (See Riley, Robert S., assignor.)
Murphy, Thomas W. and W. Csarnecki, Philadelphia, Pa. Spray nozzle. 1,453,161; Apr. 24.
Murray, William J., Mamaroneck, N. Y. Scaffold. 1,453,227; Apr. 24.
Musiar, Nelson, Worcester, Mass., assignor, by mesne assignments, to Royal Labeling Machine Company, Incorporated. Labeling machine. 1,453,020; Apr. 24.
Myers, John W., Quincy, Ill. Ventilating means for chicken hovers and brooders. 1,453,162; Apr. 24.
Nacey, Harry M., Chicago, Ill. Fusible link. 1,452,522; Apr. 24.
Nakashima, Soichi, Livingston, Calif. Fruit-pitting machine. 1,452,889; Apr. 24.
Nathanson, Philip, Allentown, Pa. Stop motion for bobbin winders. 1,452,924; Apr. 24.
National Carbon Co. Inc. (See Hopkins, Nevil M., assignor.)
National Lead Company. (See Simpkins, Louis D., assignor.)
National Malleable Castings Company, The. (See Brooks, Chester K., assignor.)
National Water Lift Co. (See Fairchild, Roland J., assignor.)
Neal, George D., assignor of one-half to J. R. Baker, Little Rock, Ark. Shock-absorber top coupling. 1,453,163; Apr. 24.
Nealley, Henry A., Newton, Mass. Lubricant demonstrator. 1,452,569; Apr. 24.
Nelson, Axel H., Turlock, Calif. Concrete wall construction. 1,452,751; Apr. 24.
Neumann, R., Hardware Co., The. (See Isidor, Joseph S., assignor.)
Neumann, R., Hardware Co., The. (See Lots, William A., assignor.)
Newby, William, Youngstown, Ohio. Opening sheet and tin-plate packs. 1,452,890; Apr. 24.
Newcomb, Edward C., North Scituate, Mass. Internal-combustion engine. 1,453,164; Apr. 24.
Newell, Robert E., Irwin, Pa. Safety valve. 1,453,079; Apr. 24.
Newhall, Henry B. (See Karitzky, John, assignor.)
Newman, John G., North Sydney, assignor to James Hardie and Company Limited, Sydney, New South Wales, Australia. Process and apparatus for manufacturing matches. 1,453,228; Apr. 24.
Newman, John G., North Sydney, assignor to James Hardie and Company Limited, Sydney, New South Wales, Australia. Match. 1,453,229; Apr. 24.
Newman, Isaac, I. Kern, and M. Kern, New York, N. Y. Catamenial appliance. 1,453,053; Apr. 24.
Newman, Leopold, Pittsburgh, Pa. Trousers. 1,453,165; Apr. 24.
Nichols Dehydrator Corporation. (See Andrea, Agnes L., assignor.)
"Nipa" Incorporated. (See Goodchild, Walter, assignor.)
Nobuhara, Kantaro, Muko-gun, Hyogo-ken, Japan. Rotary electric machine. 1,453,166; Apr. 24.
Nordenstam, Johan K., Strathcona, Minn. Trap. 1,453,167; Apr. 24.
Nordquist, Louis, Galeton, Pa. Aeroplane. 1,453,230; Apr. 24.
Nordsarom, Elof, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Machine for feeding vessels. 1,452,843; Apr. 24.
Nordstrom, Gustave P., Chicago, Ill. False bottom for cooking utensils. 1,453,054; Apr. 24.
Nordstrom, William A., Jamestown, N. Y. Accelerator for motor-car engines. 1,452,982; Apr. 24.
Norrlin, Charles H., New York, N. Y. Target finder for firearms. 1,452,651; Apr. 24.
Northwood, H., Company. (See Taylor, Morgan O., assignor.)
Norton, Allen B., assignor to Aluminum Manufacturers, Incorporated, Cleveland, Ohio. Alloy and making the same. 1,453,254; Apr. 24.
Nottage, William H., and T. D. Parkin, Chelmsford, England, assignors to The Radio Corporation of America, New York, N. Y. Wireless telegraph calling device. 1,452,925; Apr. 24.
Nube, Curd. (See Wetzer, R., and Nube.)
Nygaard, Oscar O., Milton, Mass. Driving mechanism. 1,452,570; Apr. 24.
Oakley, Clifford H. (See Oakley, Laurence M., assignor.)
Oakley, Clifford H., Trenton, N. J. Rubber heel lift. 1,452,891; Apr. 24.
Oakley, Laurence M., assignor to C. H. Oakley, Trenton, N. J. Resilient heel lift. 1,452,892; Apr. 24.
Oberwarth, Leo L., Frankfort, Ky. Collapsible drawing board. 1,453,171; Apr. 24.
Ogburn, John S., Lindale, Tex. Berry and fruit washing machine. 1,452,844; Apr. 24.
Okawa, Tetsuji. (See Fujimoto, M., and Okawa.)
Okoniewski, Ludwik. (See Zukowski, Stefan, assignor.)
Oliver Oil-Gas Burner and Machine Company. (See Morrill, Richard R., assignor.)
Olley, Edwin A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board construction. 1,452,752; Apr. 24.
Olsen, Julius H. T., New York, N. Y. Shoe polish. 1,452,614; Apr. 24.
Olson, Ole K., Oakdale, N. Dak. Trap nest for hens. 1,453,172; Apr. 24.
Olszewski, Michael W. (See Marciniak, Michael, assignor.)
O'Neill, William L., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureting apparatus for internal-combustion engines. 1,452,698; Apr. 24.

Onnerts, Paul, Berlin-Wilmersdorf, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Preparation for dyeing furs, hairs, and the like. 1,453,021; Apr. 24.
Oppenheim, Jesse, assignor to Hyman & Oppenheim, New York, N. Y. Hair net. 1,453,168; Apr. 24.
Orlando, Anthony, Chattanooga, Tenn. Polishing machine. 1,452,926; Apr. 24.
Osborn, Alden E., New York, N. Y. Motor vehicle. 1,452,698; Apr. 24.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Making welded and riveted joints. 1,452,523; Apr. 24.
Otis Elevator Company. (See Boyce, John E., assignor.)
Otto, William H., and W. Ulrich, Cincinnati, Ohio. Clamp. 1,452,753; Apr. 24.
Packer, Glenn W., assignor to Goodman Manufacturing Company, Chicago, Ill. Gathering reel. 1,452,927; Apr. 24.
Packer, John H., Liberty, Mo. Filtering tank. 1,453,169; Apr. 24.
Paedersen, Fred, Oakland, Minn. Sliding-gear transmission for Ford automobiles. 1,452,754; Apr. 24.
Pairard, Pierre, Paris, France. Electric-wire clamp. 1,453,173; Apr. 24.
Paiste, H. T., Company. (See Paiste, Henry T., assignor.)
Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Fuse plug. 1,453,170; Apr. 24.
Pallady, Harry A., Seattle, Wash. Soldering flux. 1,453,080; Apr. 24.
Palmore, Roam, Bison, Ark. Hame. 1,453,081; Apr. 24.
Paraffine Companies, The. (See Forsman, Stanton W., assignor.)
Parkin, Thomas D. (See Nottage, W. H., and Parkin.)
Parks, Elisha F., jr., Timonium, and P. G. Lang, jr., Baltimore, Md. Trimmer-belt attachment. 1,452,524; Apr. 24.
Parsons, Irving R., Chicago, Ill. Envelope. Des. 62,259; Apr. 24.
Patent Button Company, The. (See White, Franklin R., assignor.)
Patent Novelty Company. (See Reimer, George H., assignor.)
Patmor, Edward E., Santa Ana, Calif. Concrete form. 1,453,174; Apr. 24.
Patterson-Williams Mfg. Co. (See Williams, Winfield, assignor.)
Pauling, Harry, Berlin-Grunewald, Germany. Decomposing mixed metal-salt solutions. 1,452,813; Apr. 24.
Pauling, Martin W., Dover, Mo. Grease retainer. 1,452,755; Apr. 24.
Paxfiat Barrel & Crate Corporation. (See Le Fevre, George A., assignor.)
Peck, Stow & Wilcox Company, The. (See Quinlan, James A., assignor.)
Pendleton, Virginia H., New York, N. Y. Carrying bag. Des. 62,242; Apr. 24.
Pennsylvania Textile Mills Inc., The. (See Ericson, E., and Weiss, assignors.)
Perkins, Elmer E., Chicago, Ill. Drying kiln. 1,452,928; Apr. 24.
Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Grinding machine. 1,453,175; Apr. 24.
Perrine, Lester, Detroit, Mich. Compensating jaw for chucks and the like. 1,453,176; Apr. 24.
Peterson, Peter A., Pocatello, Idaho. Anchor. 1,453,177; Apr. 24.
Petry, Nicholas A., Philadelphia, Pa. Air pump. 1,453,178; Apr. 24.
Peyer, Rudolf, St. Gallen, Switzerland. Device for storing and displaying smokers' articles. 1,452,700; Apr. 24.
Pfeffer, Oscar W., assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Means for checking the wear of shaft bearings. 1,452,571; Apr. 24.
Pfeifer, John, assignor to The Springfield Auto Lock Company, Springfield, Ohio. Permutation locking mechanism for gear-shifting levers. 1,452,652; Apr. 24.
Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Articulated car. 1,452,526; Apr. 24.
Pflager, Harry M., assignor to Commonwealth Steel Car Company, St. Louis, Mo. Articulated car underframe. 1,452,525; Apr. 24.
Phelps, Frank, Little Rock, Ark, assignor to L. C. Barnett, Duluth, Minn. Centrifugal fan. 1,453,055; Apr. 24.
Phoenix Sprinkler Company. (See Atkins, Charles H., assignor.)
Philips, William D., Brooklyn, N. Y. Magnetic drying apparatus. 1,453,022; Apr. 24.
Phillips & Clark Stove Co. (See De Vries, John, assignor.)
Phillips, Darius T., assignor of one-half to C. G. Williams, Chicago, Ill. Corn harvester and shocker. 1,452,929; Apr. 24.
Phleger, John B., Dayton, Ohio. Vehicle signal. 1,453,179; Apr. 24.
Pigeon, Ernest A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Wire-assembling machine. 1,452,615; Apr. 24.
Pike, Seneca M., assignor to Wilder-Pike Thermometer Co., Inc., Troy, N. Y. Thermometer. 1,452,701; Apr. 24.
Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Stucco-mixing machine. 1,452,702; Apr. 24.
Piston Ring Company, The. (See Johnson, Charles E., assignor.)
Platt, Clarence D., Bridgeport, Conn. Inclosed-switch construction. 1,452,814; Apr. 24
Polk, Ralph, Greenwood, Ind. Means for peeling citrus fruit. 1,452,930; Apr. 24.
Pollard, Henry V., Somerville, Mass. Threshold eliminator. 1,452,703; Apr. 24.
Poole, Arthur F., Kenilworth, and G. B. Vernier, jr., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Fountain pen. 1,452,653; Apr. 24.
Poppert, Henry A., & Son Company. (See Poppert, Henry A., assignor.)
Poppert, Henry A., assignor to Henry A. Poppert & Son Company, Milwaukee, Wis. Steam-pressure cooker. 1,453,255; Apr. 24.
Porth, Harry W. L., assignor to Swift & Company, Chicago, Ill. Attachment for skinning knives. 1,452,893; Apr. 24.
Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. Transmitting apparatus for electrical telegraphs. 1,452,527; Apr. 24.
Pouk, John B., assignor of one-half to B. D. Roberts, Streator, Ill. Tread for auto tires. 1,452,894; Apr. 24.
Poulin, Hector L. and U. A., Anthony, R. I., assignors to The Rosella Mills Inc. Belt and making same. 1,452,704; Apr. 24.
Poulin, Uiric A. (See Poulin, Hector L. and U. A.)
Powell, Homer. (See Hathaway, Robert W., assignor.)
Powers, James F., Linwood, Pa. Hot-air heating apparatus. 1,453,180; Apr. 24.
Pratt, William E. (See Barker, George R., assignor.)
Price, Charles S., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric switch. 1,452,931; Apr. 24.
Pritchard, Charles A. G., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Connecting rod for pistons. 1,452,932; Apr. 24.
Prosser, Harold T., Chicopee Falls, Mass. Engine. 1,452,572; Apr. 24.
Pryde, Robert D., Orange, Conn. Golf club. 1,452,845; Apr. 24.
Pullman, George, New York, N. Y. Time recorder for locks. 1,452,846; Apr. 24.
Pupin, Michael I., Norfolk, Conn., assignor to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Selective amplifying apparatus. 1,452,833; Apr. 24.
Quinlan, James A., assignor to The Peck, Stow & Wilcox Company, Southington, Conn. Bench vise. 1,452,847; Apr. 24.
Rabenold, Charles F., Philadelphia, Pa. Lamp casing. Des. 62,243; Apr. 24.
Radiotive Corporation. (See Schmidt, Lambert, assignor.)
Radio Corporation of America. (See Ditcham, William T., assignor.)
Radio Corporation of America, The. (See Nottage, W. H., and Parkin, assignors.)
Radio Corporation of America. (See Round, Henry J., assignor.)
Ræder, Björn, assignor to himself and Aktieselskapet Zink, Kykkelsrud, Askim Station, Norway. Zinc smelting furnace. 1,452,934; Apr. 24.
Rapp, John W., deceased, Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp; W. C. Lange, temporary administrator. Airplane-rib construction. 1,453,114; Apr. 24.
Rapp, William M., San Francisco, Calif., assignor to Vapo Corporation. Refrigerator. 1,452,756; Apr. 24.
Rapp, William M., San Francisco, Calif., assignor to Vapo Corporation. Cooler. 1,452,757; Apr. 24.
Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Stock-watering device. 1,452,705; Apr. 24.
Ratchet Brake Company. (See Blackall, Robert H., assignor.)
Rath, Emil. (See Rath, Herman, assignor.)
Rath, Herman, assignor of one-half to E. Rath, Indianapolis, Ind. Form for concrete. 1,452,983; Apr. 24.
Rauch, George F., Pukwana, S. Dak. Safety crank for automobiles. 1,452,758; Apr. 24.
Rawdon, Edward W., Akron, Ohio. Locomotive driving box. 1,452,895; Apr. 24.
Rawdon, Edward W., Akron, Ohio. Locomotive driving box. 1,452,896; Apr. 24.
Raymond Concrete Pile Company. (See Schroeder, F. A., and Smith, assignors.)
Reed, Charles J., Glenside, Pa. Process of and apparatus for grading solid materials. 1,452,815; Apr. 24.
Reeks, Albert H., Toronto, Ontario, Canada. Automobile lamp. 1,452,654; Apr. 24.
Reemelin, Oscar B. (See Lewis, Frederick O., assignor.)
Reimann, Paul, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,260; Apr. 24.
Reimann, Paul, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,261; Apr. 24.
Reimann, Paul, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,262; Apr. 24

Reimann, Paul, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,263; Apr. 24.
Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Holding device. 1,452,816; Apr. 24.
Reinhold, John J., Marietta, Pa. Foot lever. 1,452,759; Apr. 24.
Renault, Louis. (See Fuchs, Ernest, assignor.)
Retterath, Valentin, Dresden-Cossebaude, assignor to the Firm: Deutsche Werke Aktiengesellschaft, Berlin, Germany. Link. 1,452,817; Apr. 24.
Reynolds, R. J., Tobacco Company. (See Strickland, Charles V., assignor.)
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-carrier support for looms. 1,452,655; Apr. 24.
Rich Tool Company. (See Jardine, Robert, assignor.)
Richards, Jesse D., La Fontaine, assignor of one-third to J. D. Gillenwater, Wabash, and one-third to C. Gable, Peru, Ind. Self-cleaning rake. 1,422,984; Apr. 24.
Richardson, Wilber D., Rosedale, Kans., assignor of one-half to R. Bryant, Kansas City, Mo. Steering mechanism stabilizing device. 1,452,656; Apr. 24.
Rickert, Fred D., Reading, Pa. Sock. Des. 62,264; Apr. 24.
Ridge, William F., Akron, Ohio. Steering-wheel cover. 1,453,181; Apr. 24.
Riethmiller, Oliver C., and A. Fowler, Philadelphia, Pa. Sewing cabinet. Des. 62,244; Apr. 24.
Riggs, Fletcher S., Marshall, Tex. Sign. 1,452,760; Apr. 24.
Riker, Samuel M., Chester, N. J. Belt buckle. 1,452,818; Apr. 24.
Riley, Ralph, assignor to The Miller Rubber Company, Akron, Ohio. Doll. Des. 62,265; Apr. 24.
Riley, Robert S., Worcester, Mass., assignor to Murphy Iron Works, Detroit, Mich. Furnace stoker. 1,452,706; Apr. 24.
Ringle, Robert F., assignor to Herman Pneumatic Machine Company, Zelienople, Pa. Control valve. 1,452,848; Apr. 24.
Risser, George P., and A. P. Williams, Seattle, Wash. Tractor. 1,453,056; Apr. 24.
Riverside Engineering Co., Inc. (See Ugnon, C., Galoppa, and Saldarini assignors.)
Rivetta, Giovanni, Paris, France. Centrifugal-force governor. 1,453,182; Apr. 24.
Roberts, Benjamin D. (See Pouk, John B., assignor.)
Roberts, William H., assignor to Detroit Stamping Company, Detroit, Mich. Collapsible-tube holder. 1,452,761; Apr. 24.
Robinson, Archie D., Westfield, Mass. Holder for memorandum pads and the like. 1,452,707; Apr. 24.
Robinson, George. (See Sturdevant, Ceylon, assignor.)
Robinson, Luther, Eldorado, Kans. Fire extinguisher. 1,452,657; Apr. 24.
Robison, James E., Denver, Colo. Ground-gripping chain for automobile tires. 1,453,183; Apr. 24.
Rochester Can Company. (See Gray, Malcolm E., assignor.)
Rogge, George F. (See Johnston, Robert J., assignor.)
Rohling, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake. 1,452,528; Apr. 24.
Rohner, Philip B. (See Drees, Andrew A., assignor.)
Rope, Arthur E., Brooklyn, N. Y. Association vanity box. 1,453,249; Apr. 24.
Rorimer, Louis, Cleveland, Ohio, assignor to Simmons Company, Kenosha, Wis. Bedstead frame. Des. 62,245; Apr. 24.
Rorive, Leopold, Brussels, Belgium. Automatic stopping device for pneumatic tools. 1,453,252; Apr. 24.
Rose, John F., Moline, Ill. Automatic bearing adjuster. 1,453,184; Apr. 24.
Rosella Mills Inc., The. (See Poulin, Hector L. and U. A., assignors.)
Rosenberg, Heyman, New York, N. Y. Tool handle. 1,453,082; Apr. 24.
Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Operating means for sash adjusters. 1,452,616; Apr. 24.
Round, Henry J., London, England, assignor to Radio Corporation of America. Wireless transmitting station. 1,452,849; Apr. 24.
Roussan, Paul E. H., Paris, France. Application of the bark (suber) of melaleuca leucadendron to thermic, hydraulic, and dielectric devices. 1,453,185; Apr. 24.
Rowe, John, Casey, Iowa. Steering-gear stop device. 1,452,985; Apr. 24.
Royal Labeling Machine Company. (See Muslar, Nelson, assignor.)
Ruffin, Robert, jr., Como, Miss. Table. 1,453,186; Apr. 24.
Ruffin, Robert, jr., Senatobia, Miss. Drafting instrument. 1,453,023; Apr. 24.
Ruhl, Otto, et al. (See Hebbard, Charles C., assignor.)
Rumford, Harry R., assignor of one-half to W. A. Landry, Chester, Pa. Means for vaporizing hydrocarbon fuels. 1,453,187; Apr. 24.
Ruperti, Henri, Hamburg, assignor to J. Heydt, Albrechts, Germany. Device for cleaning pipes. 1,452,708; Apr. 24.
Ruppe, Cecil P., Oakley, Kans. Detachable handle. 1,453,188; Apr. 24.
Ryan, William F. (See Loesch, Milton C., assignor.)
Ryon, Tracy B., Waltham, Mass. Switching mechanism. 1,453,024; Apr. 24.
S. K. F. Ball Bearing Company. (See Hird, Charles, assignor.)
Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
Saldarini, Charles. (See Ugnon, C., Galoppa, and Saldarini.)
Salm, John, Torrance, Calif. Handle for a toilet article. Des. 62,246; Apr. 24.
Salm, John, Torrance, Calif. Handle for a manicure article. Des. 62,247; Apr. 24.
Salm, John, Torrance, Calif. Handle for a manicure article. Des. 62,248; Apr. 24.
Salm, John, Torrance, Calif. Handle for a manicure article. Des. 62,249; Apr. 24.
Salter, Horace E., assignor of one-half to H. A. Ball, Grafton, N. Dak. Envelope. 1,453,189; Apr. 24.
Samuels, Benjamin F. (See Haworth, Henry G., assignor.)
Sands, Filandro H., Nassau, Bahama Islands. Horse-drawn cycle. 1,453,190; Apr. 24.
Sanger, Walter E., assignor to William Garrigue & Company, Inc., New York, N. Y. Process of and apparatus for distilling liquids. 1,452,617; Apr. 24.
Sauereisen, Christian F., Pittsburgh, Pa. Insulator. Re15,585; Apr. 24.
Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-belt unit. Re-15,583; Apr. 24.
Savoye, Herbert F., Hackensack, assignor to American Radium Appliance Company, Morristown, N. J. Apparatus for preparing artificial radioactive water. 1,452,709; Apr. 24.
Sayers, William L., Brooklyn, N. Y. Game. 1,452,618; Apr. 24.
Scheibli, Robert J., jr., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Car truck. 1,452,529; Apr. 24.
Schick, Jacob, New York, N. Y. Safety razor. 1,452,935; Apr. 24.
Schmelzer, Anton C., Springfield, assignor, by mesne assignments, to Century Machinery Corporation, Holyoke, Mass. Washing machine. 1,452,710; Apr. 24.
Schmidt, Lambert, assignor to Radiotive Corporation, Brooklyn, N. Y. Telephone apparatus. 1,452,850; Apr. 24.
Schmidt, Lambert, assignor to Radiotive Corporation, Brooklyn, N. Y. Head receiver for telephones. 1,452,851; Apr. 24.
Schnoeckel, Richard Auerbach, assignor to C. G. Haubold Aktien-Gesellschaft, Chemnitz, Germany. Heat-exchanging apparatus. 1,453,250; Apr. 24.
Schoedinger, F. O. (See Hames, Harry C., assignor.)
Schoen, Adolf, New York, N. Y. Heel-breasting machine. 1,453,191; Apr. 24.
Schoen, Adolf, New York, N. Y. Heel-cutting machine. 1,453,192; Apr. 24.
Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Device for electromagnetical quenching of light arcs appearing upon the interruption of an electric circuit. 1,453,193; Apr. 24.
Schroeder, Frederick A., Bogota, N. J., and H. R. Smith, Brooklyn, assignors to Raymond Concrete Pile Company, New York, N. Y. Brick-handling apparatus. 1,452,711; Apr. 24.
Schröder, Edmund, Berlin, Germany. Electric seam-welding machine. 1,452,762; Apr. 24.
Schuler, Max, assignor to Anschutz & Co., Neumühlen, near Kiel, Germany. Electric machine. 1,453,083; Apr. 24.
Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Pendulet. Des. 62,250; Apr. 24.
Schuman, Frank J., Cleveland Heights, Ohio, assignor to The Allan Manufacturing and Welding Corporation, Buffalo, N. Y. Method of and apparatus for welding. 1,452,936; Apr. 24.
Scott, Alexander N. (See Miller, C. H., and Scott.)
Scott, Paul, Waynoka, Okla. Bath brush. 1,452,658; Apr. 24.
Secretary of War of the United States of America, The, trustee. (See Uphoff, Leslie S., assignor.)
Seelman, John J., Milwaukee, Wis. Dispensing device. 1,452,659; Apr. 24.
Sellers, Harvey A. (See Cash, Arthur W., assignor.)
Seymour, William A., Leavenworth, Kans. Baling-wire needle. 1,452,712; Apr. 24.
Shackelford, Edward H., et al. (See Hebbard, Charles C., assignor.)
Shaffer, Ernest J., Tulsa, Okla. Sucker-rod-connecting means. 1,452,937; Apr. 24.
Shaw, Arthur E., Columbia, S. C. Dental film holder. 1,453,194; Apr. 24.
Sheather, Percival B., et al. (See Bryan, William G., assignor.)
Sheffer, John W. (See Johnson, W. S., and Sheffer.)
Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Universal joint. 1452,530; Apr. 24.
Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Steering knuckle for motor vehicles. 1,452,531; Apr. 24.
Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Vehicle chassis. 1,452,532; Apr. 24.

Sherman, John Q., Dayton, Ohio. Manifolding register. 1,452,660; Apr. 24.
Shuford, Stephen W., Woodlawn, N. C. Weighing mechanism. 1,452,763; Apr. 24.
Shull, William G. (See Sparks, C., and Shull.)
Siegel, Ernest, New York, N. Y., assignor to Axle Lock Corporation. Locking device. 1,452,938; Apr. 24.
Sigwalt, Clarence R., Chicago, Ill. Spring oiler. 1,452,852; Apr. 24.
Simmons Company. (See Rorimer, Louis, assignor.)
Simper, Frank. (See Ellis, R. H., and Simper.)
Simpkins, Louis D., Brooklyn, assignor to National Lead Company, New York, N. Y. Electro-deposition of tin. 1,452,573; Apr. 24.
Simplex Player Action Company. (See Brown, Theodore P., assignor.)
Sims, Jesse C., Maynard, Mass. Signaling mechanism. 1,453,195; Apr. 24.
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Metal wheel. 1,452,661; Apr. 24.
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,452,574; Apr. 24.
Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
Smith, Clarence E. (See Mesker, F. Smith, and Benc.)
Smith, Cuthbert C., Twickenham, England. Gramophone apparatus. 1,453,196; Apr. 24.
Smith, George M., assignor of one-fourth to R. M. Henry, Maryville, Tenn. Grate. 1,452,897; Apr. 24.
Smith, Henry L., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Operating mechanism for wood-screw machines. 1,452,986; Apr. 24.
Smith, Herman R. (See Schroeder, F. A., and Smith.)
Smith, Reinold V., Eureka, Utah. Recovering zinc from lead-zinc ores. 1,452,662; Apr. 24.
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for arc welding. 1,453,026; Apr. 24.
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for electric-arc welding. 1,453,025; Apr. 24.
Smith, W. Hawley. (See Campbell, Robert J., assignor.)
Smith, Walter R., Lompoc, Calif. Valve. 1,452,764; Apr. 24.
Smyth, John B., Beaumont, Tex. Treating rock asphalt. 1,452,898; Apr. 24.
Snell, Samuel A., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Jack. 1,452,533; Apr. 24.
Snell, Samuel A., St. Louis, Mo., assignor to H. W. Bundy, Detroit, Mich. Steering wheel. 1,452,534; Apr. 24.
Snyder, Atherton B., Grass Valley, Calif. Recording device for liquid pumps. 1,452,663; Apr. 24.
Snyder, Charles F., Pittsburgh, Pa. Facing or cutting tool. 1,453,197; Apr. 24.
Snyder, Earl D., Albany, Ill. Cushion wheel. 1,453,198; Apr. 24.
Société Anonyme d'Horlogerie et Bijouterie de Genève. (See Varaud, André, assignor.)
Societe l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. (See Claude, Georges, assignor.)
Somers, John J., Bridgeport, Conn. Fastener for reversible garments. 1,453,251; Apr. 24.
Sonntag, Eugene, jr., Astoria, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,266; Apr. 24.
Sonntag, Eugene, jr., Astoria, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,267; Apr. 24.
Soutar, Charles W. (See Atack, F. W., and Soutar.)
Sparks, Charles, Oak Park, and W. G. Shull, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Coil. 1,452,939; Apr. 24.
Specialty Manufacturing Company. (See Wood, William D., assignor.)
Speed, James B., New York, N. Y. Compression of gases. 1,452,619; Apr. 24.
Sperry, Elmer A., Brooklyn, N. Y., assignor to Anaconda Lead Products Company. Treating white lead. 1,452,620; Apr. 24.
Spijker, Jacobus, Amsterdam, Netherlands. Resilient wheel and air tire to be used therewith. 1,453,199; Apr. 24.
Springfield Auto Lock Company, The. (See Pfeifer, John, assignor.)
Stacho, Joseph O., Newark, N. J. Fur-cutting machine. 1,453,200; Apr. 24.
Standard Electric Manufacturing Company. (See Brogger, Ivar W., assignor.)
Standard Steel and Bearings Incorporated. (See Woodrow, Irvin F., assignor.)
Starks, Ray S., assignor of one-half to H. O. Hamre, Berlin, Wis. Automatic gas lighter. 1,452,987; Apr. 24.
Statler, William J., assignor to The Jewett Refrigerator Company, Buffalo, N. Y. Shelf. 1,452,765; Apr. 24.
Staub, Henri, Manoir du Cygne, Coppet, Switzerland. Gaiter of springs. 1,452,853; Apr. 24.
Stecher, Charles, Chicago, Ill. Boring machine. 1,452,940; Apr. 24.
Stefan, Jacob, jr., Chicago Heights, assignor, by mesne assignments, to Inland Steel Company, Chicago, Ill. Fence. 1,452,766; Apr. 24.
Steinberger, Louis, Brooklyn, N. Y. Strain insulator. 1,453,201; Apr. 24.
Stephen, Edward, Manchester, England. Means for detaching and delivering lengths of paper. 1,452,621; Apr. 24.
Sterling Bronze Company. (See Roth, Louis, assignor.)
Stern, Morris J., Jamaica, N. Y. Jewel mount. Des. 62,268; Apr. 24.
Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Clutch. 1,453,202; Apr. 24.
Stewart, Alfred C., Los Angeles, Calif. Valve for internal-combustion engines. 1,452,622; Apr. 24.
Stiansen, Anton P., Brooklyn, N. Y. Safety razor. 1,452,767; Apr. 24.
Stiefel, Ralph C., Ellwood City, Pa. Tube-rolling mill. 1,453,203; Apr. 24.
Stitzel, Frederick, Louisville, Ky. Spring wheel. 1,452,623; Apr. 24.
Stokes, Albert W., Philadelphia, Pa. Guide device for taps or reamers. 1,453,204; Apr. 24.
Stokoe, Charles L., Wallsend-on-Tyne, England. Fluid-flow-controlled safety apparatus. 1,452,899; Apr. 24.
Storts, John H., Philadelphia, Pa. Counting and registering device for box-wrapping and similar machines. 1,452,713; Apr. 24.
Straubel, Louis A., Green Bay, Wis. Machine for pressing and labeling interfolded sheets of paper. 1,452,988; Apr. 24.
Strauss, Joseph B., Chicago, Ill. Long-span bridge. 1,453,084; Apr. 24.
Strauss, Norbert F., assignor to Milwaukee Manufacturing Co., Milwaukee, Wis. Heating element. 1,452,989; Apr. 24.
Strickland, Charles V., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Pintle-inserting machine. 1,453,085; Apr. 24.
Stromberg Motor Devices Company. (See O'Neill, William L., assignor.)
Stroud, William. (See Barr, A., and Stroud.)
Strout, Calvin E., Portland, Me. Cable chair. 1,452,664; Apr. 24.
Stuart, Fredrick G., Washington, D. C. Attachment for rotary clipper machines. 1,452,624; Apr. 24.
Studebaker Corporation. (See Link, Vincent, assignor.)
Sturdevant, Ceylon, Castle Rock, assignor to G. Robinson, Larkspur, Colo. Chain fastener. 1,453,205; Apr. 24.
Subin, Benjamin, Philadelphia, Pa. Twine cutter. 1,453,206; Apr. 24.
Sulitemeyer, Charles F., Oak Park, Ill., assignor to Chicago Manufacturing and Distributing Co. Manufacture of bearing rings. 1,452,535; Apr. 24.
Sunnen, Joseph, St. Louis, Mo. Valve lifter. 1,452,714; Apr. 24.
Superior Hand Embroiderer Corporation. (See Baker, Fenner B., assignor.)
Sury, Walter, Pieterlen, Switzerland. Vise. 1,453,207; Apr. 24.
Sweetman, Cecil R., et al. (See Bryan, William G., assignor.)
Swift & Company. (See Porth, Harry W. L., assignor.)
Szykowny, Walter C., Toledo, Ohio. Fruit-jar holder. 1,452,941; Apr. 24.
Targosky, Peter, Cleveland, Ohio. Combined seeding machine and manure spreader. 1,452,625; Apr. 24.
Tate-Jones & Co. (See Trinks, Willibald, assignor.)
Taylor, Henry H., and M. B. Hammond, assignors to The Thomas P. Taylor Co., Bridgeport, Conn. Adjustable garter buckle. 1,452,854; Apr. 24.
Taylor, Knox, assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Tamping tool. 1,452,990; Apr. 24.
Taylor, Morgan O., assignor to H. Northwood Company, Wheeling, W. Va. Holder for candle shades. 1,452,575; Apr. 24.
Taylor, Thomas P., Co., The. (See Taylor, H. H., and Hammond, assignors.)
Taylor-Wharton Iron and Steel Company. (See Taylor, Knox, assignor.)
Terry McCluskey Auto Lock Company. (See Terry, Samuel L., assignor.)
Terry, Samuel L., Chicago, Ill., assignor, by mesne assignments, to Terry McCluskey Auto Lock Company. Lock. 1,453,115; Apr. 24.
Tham, Howard A., and R. J. Weaver, Akron, Ohio. Clothesline holder and tightener. 1,453,027; Apr. 24.
Thomas, Charles W., Cleveland, Ohio. Drawing pen. 1,452,576; Apr. 24.
Thomas, Frederick, Philadelphia, Pa. Creasing machine. 1,452,536; Apr. 24.
Thomas, Nathen D., Jacksonville, Fla. Scarifier. 1,453,208; Apr. 24.
Thomas, William G., Victoria, Va. Babbitting and brassing machine. 1,452,819; Apr. 24.
Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Chain-link welding. 1,452,942; Apr. 24.
Thomson, Ralph K., Sioux Falls, S. Dak. Side curtain for automobiles. 1,453,209; Apr. 24.

Thornhill, Edwin B., Hurley, N. Mex. Apparatus for the production of sponge iron and other metallic products. 1,452,626; Apr. 24.
Thornhill, Edwin B., Hurley, N. Mex. Production of sponge iron and other metallic products. 1,452,627; Apr. 24.
Thorssell, Carl T., and H. L. R. Lundén, assignors to Aktiebolaget Kvafveindustri, Gottenborg, Sweden. Purifying the residue obtained in producing ammonia from cyanides. 1,453,210; Apr. 24.
Thuernau, Henry A., Chicago, Ill. Advertising sign. Des. 62,251; Apr. 24.
Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Machine for measuring surface areas. 1,453,211; Apr. 24.
Tindall, Joseph S., Cedar Springs, Mich. Mold-handling apparatus. 1,452,665; Apr. 24.
Tingley, David E., Marshall, Ill. Concrete form. 1,452,628; Apr. 24.
Toal, Edmond J., Minneapolis, Minn. Writing tablet. 1,452,537; Apr. 24.
Tooker, Sidney S., Rochester, N. Y. Antifriction bearing and shaft-centering device. 1,453,028; Apr. 24.
Torchia, Julius C., Hazleton, Pa. Last support. 1,452,991; Apr. 24.
Tornquist, Jonas E., St. Paul, Minn. Capping machine. 1,453,212; Apr. 24.
Toulon, Pierre M. G., assignor to Bureau d'Organisation Économique, Paris, France. Device for the cooling of electric apparatus by the circulation of liquid through the conductors. 1,452,666; Apr. 24.
Towner, Heber F., Santa Ana, Calif. Self lift for agricultural implements. 1,452,855; Apr. 24.
Tribble, Walter, Oakland, Calif. Shpiping container. 1,452,768; Apr. 24.
Trinks, Willibald, Pittsburgh, assignor to Tate-Jones & Co., Inc., Leetsdale, Pa. Heating furnace. 1,452,856; Apr. 24.
Tubbs, Frank M., Santa Rosa, Calif. Rail-securing device. 1,453,213; Apr. 24.
Tube Products Company. (See Jacobs, Clare S., assignor.)
Tubize Artificial Silk Company of America. (See Juer, George, assignor.)
Turner, Charles H., Statesville, N. C. Locking means for belt-tightening mechanism. 1,452,900; Apr. 24.
Turpin, George W., Cleveland, Ohio. Device for producing waves in the hair. 1,452,577; Apr. 24.
Twells, Arthur H., Leicester, England. Valve gear of duplex pumps. 1,453,029; Apr. 24.
Ucar, Florencio C., Madrid, Spain. Means for establishing a voltaic arc between electrodes not in contact. 1,453,030; Apr. 24.
Uggla, Wilhelm R., and G. A. F. Wallgren, Harnosand, Sweden. Toothed wheel. 1,453,031; Apr. 24.
Ugnon, Claudius, J. Galoppa, and C. Saldarini, assignors to Riverside Engineering Co. Inc., Paterson, N. J. Mangle or quetch. 1,452,715; Apr. 24.
Ulrich, William. (See Otto, W. H., and Ulrich.)
Union Carbide & Carbon Research Laboratories, Inc. (See Becket, Frederick M., assignor.)
United Machinery Company, The. (See Leister, William H., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
Uphoff, Leslie S., U. S. Army, assignor to the Secretary of War of the United States of America, trustee. System of voltage control. 1,452,857; Apr. 24.
Van Cott, Frank J., Unadilla, N. Y. Silo structure. 1,452,578; Apr. 24.
Vanorio, Joseph. (See Rapp J. W. and Vanorio.)
Van Westrum, Gerard A. S., Philadelphia, Pa. Briquette and making same. 1,452,992; Apr. 24.
Vapo Corporation. (See Rapp, William M., assignor.)
Varaud, André, Vesenaz, near Geneva, assignor to Société Anonyme d'Horogerie et Bijouterie de Genève, Geneva, Switzerland. Time indicator. 1,453,086; Apr. 24.
Varaud, André, Vesenaz, near Geneva, assignor to the Société Anonyme d'Horlogerie et Bijouterie de Genève, Geneva, Canton of Geneva, Switzerland. Time indicator. 1,453,087; Apr. 24.
Veeder, Peter Y., Toms River, N. J. Berry-picking machine. 1,452,629; Apr. 24.
Veglio, Gaetano, Levallois-Perret, France. Safety support for the spare wheels of automobiles. 1,453,214; Apr. 24.
Vernier, George B., jr. (See Poole, A. F., and Vernier.)
Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
Vickers Limited. (See Gray, Percy W., assignor.)
Victory Sparkler & Specialty Co. (See Kohn, Koby, assignor.)
Von Krenski, Roman, Berlin-Friedenau, Germany. Vehicle tire. 1,453,033; Apr. 24.
Von Soden-Fraunhofen, Graf Alfred, Friedrichshafen, Germany. Change-speed gear. 1,453,032; Apr. 24.
Voress, Clyde L., New York, N. Y., and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Volatilizing, distilling, or separating absorbed vapors. 1,453,215; Apr. 24.
Wack, Charles H., Baltimore, Md. Cleat for electric conduits. 1,452,993; Apr. 24.
Wagner, Charles, Grantwood, and A. Hormel, Jersey City, N. J. Conveyer chain for drying apparatus and the like. 1,452,943; Apr. 24.
Wahl Company, The. (See Poole, A. F., and Vernier, assignors.)
Waitz, Charles A., Rouseville, Pa. Pump. 1,452,579; Apr. 24.
Waitz, Charles A., Rouseville, Pa. Pump. 1,452,580; Apr. 24.
Waldon, Sidney D. (See Sherbondy, Earl H., assignor.)
Walker, David, New York, N. Y. Fishing hook. 1,452,630; Apr. 24.
Wallace, Harry B., St. Louis, Mo. Vulcanizing tires. 1,453,034; Apr. 24.
Wallgren, Gunnar A. F. (See Uggla, W. R., and Wallgren.)
Warner, Loring V., Fostoria, Ohio. Lapper. 1,452,769; Apr. 24.
Wasmuth-Endicott Company. (See Hughes, Earl V., assignor.)
Watters, Daniel M., assignor to Killefer Manufacturing Company, Los Angeles, Calif. Power lift for ground-working implements. 1,452,716; Apr. 24.
Weaver, Ralph J. (See Tham, H. A., and Weaver.)
Webb, Benjamin F., Sistersville, W. Va., assignor of nine-twentieth to A. J. Karl, one-eighth to F. Appel, Sistersville, W. Va., and one-tenth to P. Engle and W. H. Carter, Middlebourne, W. Va. Power-transmitting mechanism. 1,452,770; Apr. 24.
Webb, Henry F. (See Johnson, O. H., and Webb.)
Webb, John W., Chicago, Ill. Device for testing fiber board. 1,452,944; Apr. 24.
Weber, Rudolph H., New York, N. Y. Jacquard mechanism for weaving machines or the like. 1,452,771; Apr. 24.
Weber, Wilhelm, assignor to the Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Depositing method for the masses of sand and gravel obtained in brown-coal open workings. 1,452,994; Apr. 24.
Webster, Bester R., assignor to C. A. Macomic, Chicago, Ill. Typesetting machine. 1,452,942; Apr. 24.
Weidig, Eugene C., New Orleans, La. Plant receptacle. 1,453,216; Apr. 24.
Weigel, Daniel M., Chicago, Ill., assignor to The Wire Cord Company, Akron, Ohio. Pneumatic tire. 1,453,217; Apr. 24.
Weiss, Carl W., Brooklyn, N. Y. Transmission device. 1,452,946; Apr. 24.
Weiss, Roger. (See Ericson, E., and Weiss.)
Welch, Clarence R., Denver, Colo. Rock drill. 1,452,581; Apr. 24.
Wenderhold, William, assignor, by mesne assignments, to E. J. Banshaf, New York, N. Y. Combination lamp-house support. 1,452,582; Apr. 24.
Werle, Ludwig, Sturgeon Bay, Wis. Steering locking device. 1,452,901; Apr. 24.
Werner, Henry E., Houston, Tex. Cotton gin. 1,452,667; Apr. 24.
Wertz, Harvey C., Homestead, Pa. Scaffold jack. 1,452,717; Apr. 24.
Wesley, James R., Chicago, Ill. Truck and push pole for switching cars. 1,453,218; Apr. 24.
Western Electric Company. (See Colpitts, Edwin H., assignor.)
Western Electric Company. (See Price, Charles S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pupin, Michael I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Pilot beam. 1,452,538; Apr. 24.
Wettwer, Arthur H., Rice Lake, Wis. Wrench. 1,452,668; Apr. 24.
Wetzer, Rudolf, Pfronten, B., and C. Nube, Offenbach-on-the-Main, Germany. Engraving machine. 1,452,858; Apr. 24.
Wheelock, Edwin M., Winona, Minn. Power-operated road-grading machine. 1,453,231; Apr. 24.
Whitcomb, Daniel F., and K. R. Coolidge, Los Angeles, Calif. Figure toy. 1,452,820; Apr. 24.
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,452,539; Apr. 24.
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,452,540; Apr. 24.
White, Howard W. and W. Lininger, Kent, Iowa. End gate. 1,453,219; Apr. 24.
Wichser, Bernhard, Brooklyn, N. Y. Valve-operating device. 1,452,859; Apr. 24.
Widell, Magnus E., Maywood, and A. A. Jahr, Forest Park, Ill., assignors to American Can Company, New York, N. Y. Horizontal stationary double seamer for cans. 1,452,947; Apr. 24.
Wilburger, William, Brooklyn, N. Y. Binding post for loose-leaf books. 1,452,860; Apr. 24.
Wilburger, William, Brooklyn, N. Y. Album for disk records. 1,452,861; Apr. 24.
Wilder-Pike Thermometer Co. (See Pike, Seneca M., assignor.)

Willett, Alfred H., West New York, N. J., assignor to American Arch Company. Fire-box-arch construction. 1,452,948; Apr. 24.
Williams, Albert P. (See Risser, G. P., and Williams.)
Williams, Charles G. (See Phillips, Darius T., assignor.)
Williams, Joseph A., Cleveland, Ohio. Making iron, steel, or steel alloys. 1,452,057; Apr. 24.
Williams, Walter J., Binghamton, N. Y. Interlocking fire brick for arches. 1,452,583; Apr. 24.
Williams, William E., Chicago, Ill. Steel wheel for automobiles. 1,452,772; Apr. 24.
Williams, Winfield, assignor to Patterson-Williams Mfg. Co., San Jose, Calif. Exercising apparatus. 1,453,035; Apr. 24.
Williamson, Harley J. (See Carithers, J. V., and Williamson.)
Williamson, Roy H., Spooner, Wis. Toy gun. 1,452,902; Apr. 24.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Draft and buffing mechanism. 1,452,541; Apr. 24.
Wilson, Edward, assignor to Wilson Engineering Company, St. Louis, Mo. Compressor. 1,452,718; Apr. 24.
Wilson Engineering Company. (See Wilson, Edward, assignor.)
Wilson-Jones Loose Leaf Company. (See Fargo, Charles R., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. 1,452,669; Apr. 24.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,452,670; Apr. 24.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,452,671; Apr. 24.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,452,672; Apr. 24.
Winter, Robert, jr. (See Hoover, A. W., and Winter.)
Wire Cord Company, The. (See Weigel, Daniel M., assignor.)
Witzenmann, Emil, Pforzheim, Germany. Double-walled tube for heating and cooling purposes. 1,453,220; Apr. 24.
Wood, William D., assignor to Specialty Manufacturing Company, Seattle, Wash. Light-controlling device for photographic-printing machines. 1,452,719; Apr. 24.
Woodrow, Irvin F., West Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Workholder. 1,452,949; Apr. 24.
Woodward, Herbert S. (See Miller, John P., assignor.)
Woodward, William E., Forest Hills, assignor to Franklin Railway Supply Company, New York, N. Y. Lateral-motion device for driving boxes. 1,452,862; Apr. 24.
Worcester, Albert, Los Angeles, Calif. Box-covering machine. 1,452,720; Apr. 24.
Worosila, Joseph, Fort Hancock, N. J. Oiling device. 1,453,221; Apr. 24.
Yeakley, Melvin A., Canton, Ohio. Valve-operating connection. 1,452,995; Apr. 24.
Yerger, Charles W., Washington, D. C., assignor to The Cutler-Hammer M'f'g Co., Milwaukee, Wis. Motor controller. 1,452,542; Apr. 24.
Zukor, Arnold, New York, N. Y. Burglar alarm. 1,453,058; Apr. 24.
Zukowski, Stefan, assignor of forty-five per cent to L. Okoniewski, Pascoag, R. I. Sled. 1,453,232; Apr. 24

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF APRIL, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive device. W. J. Hoberg. 1,452,738; Apr. 24.
Aeroplane. L. Nordquist. 1,453,230; Apr. 24.
Aeroplane wing. J. M. H. Jacobs. 1,452,641; Apr. 24.
Agitator. C. Field. 1,452,966; Apr. 24.
Agricultural implements, Self-lift for. H. F. Towner. 1,452,855; Apr. 24.
Agricultural machine. J. E. Mullen. 1,452,697; Apr. 24.
Airplane engines, Radiator for. E. T. Curran. 1,452,958; Apr. 24.
Airplane-rib construction. J. W. Rapp and J. Vanorio. 1,453,114; Apr. 24.
Alarm: *See*—
Burglar alarm. Vehicle alarm.
Alarm apparatus, Burglar-. B. Galerman. 1,452,500; Apr. 24.
Alkalies from impure lyes, Recovery of pure. K. Heinemann. 1,453,132; Apr. 24.
Alloy and making same. A. B. Norton. 1,453,254; Apr. 24.
Alloy, Readily-fusible. A. de W. Mulligan. 1,452,750; Apr. 24.
Ammonia from cyanide, Purifying the residue obtained in producing. C. T. Thorssell and H. L. R. Lundén. 1,453,210; Apr. 24.
Ammonia into ammonium chloride, Conversion of. C. Bosch, E. Dehnel, and C. Kircher. 1,453,060; Apr. 24.
Amplifying apparatus, Selective. M. I. Pupin. 1,452,933; Apr. 24.
Anchor. P. A. Peterson. 1,453,177; Apr. 24.
Annealing furnace or leer. W. A. Amsler. 1,453,116; Apr. 24.
Antiskid-chain-anchoring means, Spoke-engaging. G. P. Macintosh. 1,452,886; Apr. 24.
Arsenical compound. L. M. Hussey. 1,452,605; Apr. 24.
Asphalt, Treating rock. J. B. Smyth. 1,452,898; Apr. 24.
Auto signal. M. Fujimoto and T. Okawa. 1,452,681; Apr. 24.
Auto windshield attachment. M. Becker. 1,452,904; Apr. 24.
Automobile direction signal. W. W. Lincoln.—Re15,584; Apr. 24.
Automobile lock. J. D. King. 1,452,879; Apr. 24.
Automobile steel wheel. W. E. Williams. 1,452,772; Apr. 24.
Automobile testing apparatus. J. T. Bishop. 1,452,783; Apr. 24.
Automobiles, Safety crank for. G. F. Rauch. 1,452,758; Apr. 24.
Automobiles, Safety support for the spare wheels of. G. Veglio. 1,453,214; Apr. 24.
Automobiles, Side curtain for. R. K. Thomson. 1,453,209; Apr. 24.
Automobiles, Sliding-gear transmission for Ford. F. Paedersen. 1,452,754; Apr. 24.
Babbitting and brassing machine. W. G. Thomas. 1,452,819; Apr. 24.
Bag: *See*—
Garment bag.
Bag, Carrying. V. H. Pendleton. Des. 62,242; Apr. 24.
Bag-frame fastener. J. S. Isidor. 1,452,837; Apr. 24.
Bag-frame fastener. W. A. Lotz. 1,452,839; Apr. 24.
Baker's implement. W. B. Hadley. 1,452,504; Apr. 24.
Balls, Retriever for golf. H. W. Fisher. 1,452,679; Apr. 24.
Barrel. Knockdown. G. A. LeFevre. 1,452,880; Apr. 24.
Barrels, Croze ring for. S. W. Forsman. 1,453,068; Apr. 24.
Baseboard structure, Metallic. G. A. Knapp. 1,453,072; Apr. 24.
Baskets, satchels, and like containers, Handle for. W. Hamm. 1,453,107; Apr. 24.
Battery vent, Storage-. N. M. Hopkins. 1,452,806; Apr. 24.
Bearing. H. P. Himes. 1,452,603; Apr. 24.
Bearing adjuster, Automatic. J. F. Rose. 1,453,184; Apr. 24.
Bearing and shaft-centering device, Antifriction. S. S. Tooker. 1,453,028; Apr. 24.
Bearing rings, Manufacture of. C. F. Sultemeyer. 1,452,535; Apr. 24.
Bearings, Means for checking the wear of shaft. O. W. Pfeffer. 1,452,571; Apr. 24.
Bedstead frame. L. Rorimer. Des. 62,245; Apr. 24.
Belt and making same. H. L. and U. A. Poulin. 1,452,704; Apr. 24.
Belt attachment, Trimmer-. E. F. Parks, jr., and P. G. Lang, jr. 1,452,524; Apr. 24.
Belt-tightening mechanism, Locking means for. C. H. Turner. 1,452,900; Apr. 24.
Berry and fruit washing machine. J. S. Ogburn. 1,452,844; Apr. 24.
Berry-picking machine. P. Y. Veeder. 1,452,629; Apr. 24.
Binder-locking mechanism. C. R. Fargo. 1,453,066; Apr. 24.
Binding machine. C. F. McBee. 1,452,565; Apr. 24.
Blanket or similar article. F. A. Andrews. Des. 62,252; Apr. 24.
Block: *See*—
Buffer block.
Board: *See*—
Drawing board.
Boat-hull construction. G. M. French. 1,453,223; Apr. 24.
Bobbin winders, Stop motion for. P. Nathanson. 1,452,924; Apr. 24.
Bolt: *See*—
Locking bolt.
Bolt anchor. J. Karitzky. 1,452,514; Apr. 24.
Book cover, Metal. F. Hachmann. 1,452,802; Apr. 24.
Books, Binding post for loose-leaf. W. Wilburger. 1,452,860; Apr. 24.
Bootjack. W. C. Gruss. 1,453,105; Apr. 24.
Boring machine. C. Stecher. 1,452,940; Apr. 24.
Box: *See*—
Locomotive driving box. Vanity box.
Sound box.
Box-covering machine. A. Worcester. 1,452,720; Apr. 24.
Box-wrapping and similar machines, Counting and registering device for. J. H. Stortz. 1,452,713; Apr. 24.
Boxes, Cam for gill. G. T. Hemsley. 1,453,010; Apr. 24.
Boxes, Lateral-motion device for driving. W. E. Woodard. 1,452,862; Apr. 24.
Bracket: *See*—
Wall bracket.
Brake. J. A. Heyser. 1,452,736; Apr. 24.
Brake. J. M. Rohling. 1,452,528; Apr. 24.
Brake linings and the like, Making. F. J. Gleason. 1,452,555; Apr. 24.
Brakes, Pressure equalizer for hydraulic. O. J. Frock. 1,453,098; Apr. 24.
Braking mechanism. V. Link. 1,453,050; Apr. 24.
Brick for arches, Interlocking fire. W. J. Williams. 1,452,583; Apr. 24.
Brick-handling apparatus. F. A. Schroeder and H. R. Smith. 1,452,711; Apr. 24.
Bridge, Long-span. J. B. Strauss. 1,453,084; Apr. 24.
Briquette and making same. G. A. S. van Westrum. 1,452,992; Apr. 24.
Brush. A. Gissler. 1,452,502; Apr. 24.
Brush, Bath. P. Scott. 1,452,658; Apr. 24.
Brush, Fountain bath. E. N. Lichtenstein. 1,452,976; Apr. 24.
Buckle. W. E. James. 1,452,914; Apr. 24.
Buckle, Adjustable garter. H. H. Taylor and M. B. Hammond. 1,452,854; Apr. 24.
Buckle, Belt. T. C. Erpenbeck. 1,452,799; Apr. 24.
Buckle, Belt. S. M. Riker. 1,452,818; Apr. 24.
Buffer block. L. E. Harris. 1,453,225; Apr. 24.
Burglar alarm. J. I. Connelly. 1,452,595; Apr. 24.
Burglar alarm. A. Zukor. 1,453,058; Apr. 24.
Burial apparatus. J. D. Jennings. 1,453,141; Apr. 24.
Burner: *See*—
Gas and vapor burner. Oil burner.
Burner. C. W. Mummery. 1,452,650; Apr. 24.
Button. R. L. Huffman. 1,453,245; Apr. 24.
Button. F. R. White. 1,452,538–40; Apr. 24.
Button-blank-cutting machines, Water-jet head attachment for. N. Barry. 1,452,779; Apr. 24.
Cabinet. F. Malovich. Des. 62,240; Apr. 24.
Cabinet, Account-filing. W. T. McGraw. 1,452,919; Apr. 24.
Cabinet door. E. V. Hughes. 1,452,913; Apr. 24.
Cabinet for foods, Steam. R. J. Campbell. 1,452,907; Apr. 24.

Cabinet, Sewing. O. C. Klethmiller and A. Fowler. Des. 62,244; Apr. 24.
Cable chair. C. E. Strout. 1,452,664; Apr. 24.
Cable connector. W. E. Camp. 1,453,001; Apr. 24.
Calculating device. F. Fulgora. 1,453,100; Apr. 24.
Calipers, Micrometer. L. O. Beard. 1,452,780; Apr. 24.
Cameras, Apparatus for automatically focusing multiple-exposure. W. Fritsche. 1,452,833; Apr. 24.
Can opener. V. Lambert. 1,452,516; Apr. 24.
Cans, Horizontal stationary double seamer for. M. E. Widell and A. A. Jahr. 1,452,047; Apr. 24.
Candle shades, Holder for. M. O. Taylor. 1,452,575; Apr. 24.
Cannula and clamp. F. C. Atwood. 1,452,863; Apr. 24.
Capping machine. J. E. Tornquist. 1,453,212; Apr. 24.
Car, Articulated. H. M. Pflager. 1,452,526; Apr. 24.
Car, Cane. L. Almquist. 1,452,486; Apr. 24.
Car-controlling mechanism. A. and J. Hackworth. 1,452,556; Apr. 24.
Car-dumping machine. M. D. Jones. 1,452,606; Apr. 24.
Car, Tank. W. K. Auchincloss. 1,452,487; Apr. 24.
Car truck. R. J. Scheibl, jr. 1,452,529; Apr. 24.
Car under frame, Articulated. H. M. Pflager. 1,452,525; Apr. 24.
Car-wheel boxing and oiling device. A. W. Minney. 1,453,158; Apr. 24.
Cars, Locking device for mine. J. P. Miller. 1,452,923; Apr. 24.
Cars, Truck and push pole for switching. J. R. Wesley. 1,453,218; Apr. 24.
Cars, Unloading mechanism for freight. C. H. Montgomery. 1,452,649; Apr. 24.
Carboy. F. E. Hodes. 1,452,971; Apr. 24.
Carburetor. F. E. Baldwin. 1,452,488; Apr. 24.
Case: *See*—
Packing case.
Catamenial appliance. I. Newman and I. and M. Kern. 1,453,053; Apr. 24.
Cementitious articles, Machine for making. A. O. Crozier. 1,453,040; Apr. 24.
Chain-anchoring means. Felly-engaging antiskid-. G. P. MacIntosh. 1,452,885; Apr. 24.
Chain fastener. C. Sturdevant. 1,453,205; Apr. 24.
Chain for drying apparatus and the like, Conveyer. C. Wagner and A. Hormel. 1,452,943; Apr. 24.
Chain link. J. E. and R. A. Bachman. 1,453,088; Apr. 24.
Chain-link welding. E. Thomson. 1,452,942; Apr. 24.
Chair: *See*—
Cable chair. High chair.
Chair, Ironing board, and table, Convertible. J. D. Mayberry. 1,452,749; Apr. 24.
Check and check book, Bank. R. Bates. 1,453,234; Apr. 24.
Check-controlled machine. A. D. Antoine. 1,452,721; Apr. 24.
Check perforator. R. Bates. 1,453,235; Apr. 24.
Check protector. A. E. Barnes. 1,452,674; Apr. 24.
Chicken coop or brooder. C. W. Carol. 1,452,728; Apr. 24.
Chuck. C. Hird. 1,453,110; Apr. 24.
Chuck attachment, Draw. L. H. Anderson. 1,453,117; Apr. 24.
Chuck jaw. P. Förster. 1,453,045; Apr. 24.
Chucks and the like, Compensating jaw for. L. Perrine. 1,453,176; Apr. 24.
Circuit interrupter. O. H. Eschholz. 1,452,550; Apr. 24.
Circuit interrupter. J. Slepian. 1,452,574; Apr. 24.
Cistern. R. W. Hathaway. 1,453,109; Apr. 24.
Clamp: *See*—
Electric-wire clamp. Saw clamp.
Clamp. W. H. Otto and W. Ulrich. 1,452,753; Apr. 24.
Clipper machines, Attachment for rotary. F. G. Stuart. 1,452,624; Apr. 24.
Cloth-piling machine. J. F. Brindley. 1,452,825; Apr. 24.
Clothes-drying apparatus. V. Ferrara. 1,452,498; Apr. 24.
Clothesline holder and tightener. H. A. Tham and R. J. Weaver. 1,453,027; Apr. 24.
Clothesline reel. J. Miessner. 1,453,157; Apr. 24.
Clutch. W. C. Stevens. 1,453,202; Apr. 24.
Clutch, Friction. W. Klocke. 1,452,009; Apr. 24.
Coat hanger, Collapsible. C. F. Brinkman. 1,453,000; Apr. 24.
Cock, Compression. P. Mueller. 1,452,811; Apr. 24.
Coil. C. Sparks and W. G. Shull. 1,452,939; Apr. 24.
Coils, Pipe clamp for steam. C. C. Fischer. 1,452,497; Apr. 24.
Coin detector. F. W. Mills. 1,452,979; Apr. 24.
Coin detector, Ball-bearing. F. W. Mills. 1,452,980; Apr. 24.
Collar supporter, Soft-. F. A. Kaufmann. 1,453,144; Apr. 24.
Collar wrapper. E. F. Jantz. 1,453,070; Apr. 24.
Combination tool. M. B. Martinez. 1,453,155; Apr. 24.
Compass, Gyroscopic. A. E. Gott. 1,453,103; Apr. 24.
Compressor. E. Wilson. 1,452,718; Apr. 24.
Concentrating table. C. C. Hebbard. 1,452,969; Apr. 24.
Concrete flat-slab construction, Reenforcement for reenforced-. L. Davidson. 1,452,677; Apr. 24.
Concrete form. E. E. Patmor. 1,453,174; Apr. 24.
Concrete form. H. Rath. 1,452,983; Apr. 24.
Concrete form. D. E. Tingley. 1,452,628; Apr. 24.
Concrete mixer. H. E. Johnson. 1,453,047; Apr. 24.
Concrete wall construction. A. H. Nelson. 1,452,751; Apr. 24.
Condenser. M. Donauer. 1,453,041; Apr. 24.
Container closure. W. W. Mason. 1,453,077; Apr. 24.
Containers and dispensers, Manufacture of capillary. W. Goodchild. 1,452,801; Apr. 24.
Conveyer system. H. J. Hoyt. 1,452,836; Apr. 24.
Cooker, Camp. S. C. Hulick. 1,452,640; Apr. 24.
Cooker, Steam-pressure. H. A. Poppert. 1,453,255; Apr. 24.
Cooking utensils, False bottom for. G. P. Nordstrom. 1,453,054; Apr. 24.
Cooler. W. M. Rapp. 1,452,757; Apr. 24.
Corn-debutting machine, Green-. W. H. Leister. 1,453,248; Apr. 24.
Cotton gin. H. E. Werner. 1,452,667; Apr. 24.
Coupling. C. J. Blass. 1,453,059; Apr. 24.
Coupling-release rigging. S. H. Campbell. 1,453,002; Apr. 24.
Crane, Power-operated. E. J. Kane. 1,452,690; Apr. 24.
Crate. D. T. Considine. 1,453,005; Apr. 24.
Crate, Collapsible. H. J. Lee. 1,453,148; Apr. 24.
Creasing machine. F. Thomas. 1,452,536; Apr. 24.
Culvert. T. De La Mare. 1,452,796; Apr. 24.
Culvert. W. E. Hitchcock. 1,453,136; Apr. 24.
Cup: *See*—
Drinking cup.
Curtain roller. F. H. Hart. 1,452,874; Apr. 24.
Curtain windowpanes, Mount for vehicle. J. M. McCloud. 1,452,612; Apr. 24.
Cushion wheel. P. H. Dorsey. 1,453,092; Apr. 24.
Cushion wheel. E. D. Snyder. 1,453,198; Apr. 24.
Cutter: *See*—
Twine cutter. Vegetable cutter.
Cycle, Horse-drawn. F. H. Sands. 1,453,190; Apr. 24.
Cylinder, Drying. E. Hutchins. 1,453,113; Apr. 24.
Damper, Automatic. T. S. Cooper, jr. 1,452,792; Apr. 24.
Dechlorinated chlorinated-glycerides and derivatives therefrom. H. A. Gardner. 1,452,553; Apr. 24.
Decoy. G. E. Barker. 1,452,631; Apr. 24.
Demountable wheel. G. E. Goddard. 1,452,597; Apr. 24.
Dental film holder. A. E. Shaw. 1,453,194; Apr. 24.
Derrick. H. H. H. Harklow. 1,453,108; Apr. 24.
Desk or memorandum pad holder. S. B. Mein. 1,453,052; Apr. 24.
Detachable handle. C. P. Ruppe. 1,453,188; Apr. 24.
Direction indicator. I. M. Brown. 1,453,237; Apr. 24.
Disk records, Album for. W. Wilburger. 1,452,861; Apr. 24.
Dispensing device. J. Mason. 1,452,922; Apr. 24.
Dispensing device. J. J. Seelman. 1,452,659; Apr. 24.
Distribution, System of. G. E. Hulse. 1,452,877; Apr. 24.
Doffer guard and oil-well cover, Combined. W. Adkinson. 1,452,673; Apr. 24.
Doll. B. Riley. Des. 62,265; Apr. 24.
Door. W. S. Hamm. 1,452,685; Apr. 24.
Doorknob and ringing device, Combination. E. B. Calderwood. 1,452,788; Apr. 24.
Draft and buffing mechanism. V. Willoughby. 1,452,541; Apr. 24.
Drafting instrument. R. Ruffin, jr. 1,453,023; Apr. 24.
Drawer. A. M. Benner. 1,453,121; Apr. 24.
Drawing board, Collapsible. L. L. Oberwarth. 1,453,171; Apr. 24.
Drawing frames, Top screw for gill-. G. T. Hemsley. 1,453,009; Apr. 24.
Drill: *See*—
Fluid-operated drill. Rock drill.
Drill-bit swelling and dressing apparatus. H. A. Martin. 1,453,154; Apr. 24.
Drill machine, Multiple-. J. McLellan. 1,452,920–1; Apr. 24.
Drilling machine, Multiple. W. R. Fox and H. D. Corwin. 1,453,008; Apr. 24.
Drink mixer. J. V. Carithers and H. J. Williamson. 1,453,128; Apr. 24.
Drinking cup. J. W. Lavigne. 1,453,015; Apr. 24.
Driving mechanism. O. O. Nygaard. 1,452,570; Apr. 24.
Droplight support, Adjustable. G. W. Anderson. 1,452,950; Apr. 24.
Drying apparatus, Magnetic. W. D. Phillips. 1,453,022; Apr. 24.
Drying kiln. E. E. Perkins. 1,452,928; Apr. 24.
Dyeing furs, hairs, and the like, Preparation for. P. Onnerts. 1,453,021; Apr. 24.
Dyestuffs containing sulphur and dyeing vegetable fibers without a mordant and making same. R. Herz and H. Balhorn. 1,452,805; Apr. 24.
Dynamos, Voltage-controlling device for. G. C. Hubbie. 1,452,688; Apr. 24.
Easel, Display. G. A. Donaldson. 1,453,238; Apr. 24.
Elbow cuff. S. D. Bowers. 1,452,998; Apr. 24.
Electric-arc welding, Apparatus for. R. S. Smith. 1,453,025–6; Apr. 24.
Electric-circuit controller. S. C. Bryant. 1,453,089; Apr. 24.
Engine: *See*—
Internal-combustion engine.
Electric circuit, Device for electromagnetical quenching of light arcs appearing upon the interruption of an. L. Schön. 1,453,193; Apr. 24.
Electric conduits. Cleat for. C. H. Wack. 1,452,993; Apr. 24.

Electric-light fixtures, Coupling for. C. M. Ball, jr. 1,453,233; Apr. 24.
Electric machine. M. Schuler. 1,423,083; Apr. 24.
Electric machine, Rotary. K. Nobuhara. 1,453,166; Apr. 24.
Electric machines, Cooling of dynamo-. P. A. H. Mossay and H. C. E. Jacoby. 1,453,159; Apr. 24.
Electric switch. C. S. Price. 1,452,931; Apr. 24.
Electric-wire clamp. P. Pairard. 1,453,173; Apr. 24.
Electrical condenser. M. Klosner. 1,452,610; Apr. 24.
Electrical heating elements, Pack for. W. A. Braun. 1,452,954; Apr. 24.
Electrolytic cell. D. A. Brading. 1,452,589; Apr. 24.
Elevator-car gates, and elevator shaft doors, Safety appliance for G. G. Laureyns. 1,453,074; Apr. 24.
Elevator-shaft doors, Safety mechanism for. G. G. Laureyns. 1,453,073; Apr. 24.
Embroidery machines, Device for the production of crochet seams and patterns in. A. H. Meyer. 1,452,840; Apr. 24.
Enameling. E. Berninghaus. 1,452,635; Apr. 24.
Enameling furnace. F. C. Mackey and J. H. Gumz. 1,453,051; Apr. 24.
Enameling rack. W. D. Allen. 1,452,821; Apr. 24.
End gate. H. W. White and W. Lininger. 1,453,219; Apr. 24.
Engine. H. T. Prosser. 1,452,572; Apr. 24.
Engine-cranking device. E. Capouch. 1,452,592; Apr. 24.
Engine plants, Controlling means for internal-combustion-. E. Kägi. 1,452,561; Apr. 24.
Engines, Accelerator for motor-car. W. A. Nordstrom. 1,452,982; Apr. 24.
Engines, Air auxiliary supply means for internal-combustion. T. A. Edison, jr. 1,452,829; Apr. 24.
Engines, Carbureting apparatus for internal-combustion. W. L. O'Neill. 1,452,699; Apr. 24.
Engines, Ignition system for combustion. W. C. Heath. 1,452,001; Apr. 24.
Engines, Piston and crank connection for. W. H. Callan and T. P. Kimman. 1,452,955; Apr. 24.
Engines, Valve for internal-combustion. A. C. Stewart. 1,452,622; Apr. 24.
Engines, Vaporizer for combustion. M. C. Loesch. 1,452,883; Apr. 24.
Engraving machine. R. Wetzer and C. Nube. 1,452,858; Apr. 24.
Envelope. I. R. Parsons. Des. 62,259; Apr. 24.
Envelope. H. E. Salter. 1,453,189; Apr. 24.
Exercising apparatus. W. Williams. 1,453,035; Apr. 24.
Facing or cutting tool. C. F. Snyder. 1,453,197; Apr. 24.
Fan, Centrifugal. F. Phelps. 1,453,055; Apr. 24.
Fastener, Separable. M. Kell. 1,452,743; Apr. 24.
Fastening device. H. Mueble. 1,452,081; Apr. 24.
Fat-splitting reagent and making same. L. J. Lewis 1,452,881; Apr. 24.
Feeder, Drum. O. H. Johnson and H. F. Webb. 1,453,143 Apr. 24.
Fence. J. Stefan, jr. 1,452,766; Apr. 24.
Fiber board, Device for testing. J. W. Webb. 1,452,944; Apr. 24.
File, Letter. E. Erickson. 1,453,096; Apr. 24.
Film holder. C. S. Howland. 1,453,244; Apr. 24.
Filtering tank. J. H. Packer. 1,453,169; Apr. 24.
Fire-box-arch construction. A. H. Willett. 1,452,948; Apr. 24.
Fire escape. C. C. Abbott and W. E., B. L., and I. L. Bassett. 1,452,543; Apr. 24.
Fire extinguisher. L. Robinson. 1,452,657; Apr. 24.
Fire, Means for extinguishing. H. E. Delbare. 1,453,091; Apr. 24.
Firearms, Target finder for. C. H. Norrlin. 1,452,651; Apr. 24.
Fish trap, Floating. A. L. Hermanson. 1,453,135; Apr. 24.
Fishing and similar uses, Fly for fly. H. B. Chase, jr. 1,452,593; Apr. 24.
Fishing hook. D. Walker. 1,452,630; Apr. 24.
Fishing-rod handle. F. C. Lee. 1,452,808; Apr. 24.
Floor controllers, Correcting device for. J. E. Boyce. 1,452,490; Apr. 24.
Floor planer. R. L. Conner. 1,452,493; Apr. 24.
Flour and grits made from cereals, Sterilizing. K. Dienst. 1,452,871; Apr. 24.
Fluid-flow-controlled safety apparatus. C. L. Stokoe. 1,452,899; Apr. 24.
Fluid-operated drill. C. A. Hultquist. 1,452,689; Apr. 24.
Folding seat, Portable. R. E. Cattier. 1,452,869; Apr. 24.
Food, Apparatus for desiccating. A. L. Andrea. 1,452,586; Apr. 24.
Four-horse evener. R. De Boer. 1,452,729; Apr. 24.
Fruit, Means for peeling citrus. R. Polk. 1,452,930; Apr. 24.
Fruit-pitting machine. S. Nakashima. 1,452,889; Apr. 24.
Fruit-press crate and cleat-positioning machine. G. C. and W. B. Boller. 1,452,866; Apr. 24.
Fuel furnace, Pulverized-. H. G. Barnhurst. 1,452,952; Apr. 24.
Fuels, Means for vaporizing hydrocarbon. H. R. Rumford. 1,453,187; Apr. 24.
Fulcrums, Producing. C. E. Bauer. 1,452,489; Apr. 24.
Fur-cutting machine. J. O. Stacho. 1,453,200; Apr. 24.
Furnace: *See*—
Enameling furnace. Induction furnace.
Fuel furnace. One-pipe furnace.
Heating furnace. Smelting furnace.
Hot-air furnace.
Fuse plug. H. T. Paiste. 1,453,170; Apr. 24.
Fusions, Carrying out continuous. W. O. Mitscherling. 1,452,520; Apr. 24.
Game. W. L. Sayers. 1,452,618; Apr. 24.
Games, Stylus guide for psychic. F. C. Jenness. 1,452,741; Apr. 24.
Garment, Adjustable. J. Eichhorn. 1,453,243; Apr. 24
Garment bag. F. W. Kennedy. 1,452,644; Apr. 24.
Garment hanger. J. A. Landan. 1,452,745; Apr. 24.
Garments, Fastener for reversible. J. J. Somers. 1,453,251; Apr. 24.
Gas and vapor burner. E. O. Daniels. 1,452,826; Apr. 24.
Gas generator, Portable. D. C. Duncan. 1,452,731; Apr. 24.
Gas-lighter, Automatic. R. S. Starks. 1,452,987; Apr. 24.
Gases, Compression of. J. B. Speed. 1,452,619; Apr. 24.
Gate: *See*—
End gate.
Gathering reel. G. W. Packer. 1,452,927; Apr. 24.
Gauge. L. Foote. 1,453,222; Apr. 24.
Gear, Change-speed. Graf A. von Soden-Fraunhofen. 1,453,032; Apr. 24.
Gear-shift lock. N. Collion. 1,453,004; Apr. 24.
Gears, Lock for steering. W. Ganz. 1,453,256; Apr. 24.
Generator: *See*—
Gas generator.
Glass facing. D. Hamilton. 1,452,684; Apr. 24.
Glasses, spectacles, and the like, Adjusting. A. A. Coveille. 1,452,909; Apr. 24.
Gluing machine. C. W. Marsh. 1,452,888; Apr. 24.
Golf club. R. D. Pryde. 1,452,845; Apr. 24.
Golf clubs, Sole plate for. G. W. Mattern. 1,452,695; Apr. 24.
Governor, Centrifugal-force. G. Rivetta. 1,453,182; Apr. 24.
Grain-shocking machine. W. O. Eichenberger. 1,453,242; Apr. 24.
Gramophone apparatus. C. C. Smith. 1,453,196; Apr. 24.
Grate. G. M. Smith. 1,452,897; Apr. 24.
Grate, Furnace. G. C. Ehrbar. 1,453,093; Apr. 24.
Grate structure, Furnace-. T. Abel. 1,452,584; Apr. 24.
Grease retainer. M. W. Pauling. 1,452,755; Apr. 24.
Grinding machine. R. Hervig. 1,452,509; Apr. 24.
Grinding machine. J. E. Perrault. 1,453,175; Apr. 24.
Groundworking implements, Power lift for. D. M. Watters. 1,452,716; Apr. 24.
Guttiform section. C. Dornier. 1,452,961; Apr. 24.
Hair, Device for producing waves in the. G. W. Turpin. 1,452,577; Apr. 24.
Hair net. J. Oppenheim. 1,453,168; Apr. 24.
Hame. R. Palmore. 1,453,081; Apr. 24.
Handle: *See*—
Detachable handle. Tool handle.
Fishing-rod handle.
Handwheel grip. H. L. Jackson. 1,453,012; Apr. 24.
Hanger: *See*—
Coat hanger. Garment hanger.
Harness rosette. J. C. Harpham. Des. 62,255–6; Apr. 24.
Harvester and shocker, Corn. D. T. Phillips. 1,452,929; Apr. 24.
Heater: *See*—
Manifold heater. Water-tank heater.
Rivet heater.
Heat-exchanging apparatus. R. Schnoeckel. 1,453,250; Apr. 24.
Heating apparatus. R. A. Balcom. 1,452,864; Apr. 24.
Heating apparatus, Hot-air. J. F. Powers. 1,453,180; Apr. 24.
Heating element. N. F. Strauss. 1,452,989; Apr. 24.
Heating furnace. W. Trinks. 1,452,856; Apr. 24.
Headlights, Ornamental casing for automobile. N. J. Leidy. 1,453,075; Apr. 24.
Heel-breasting machine. A. Schoen. 1,453,191; Apr. 24.
Heel-building machine. E. E. Winkley. 1,452,669; Apr. 24.
Heel-cutting machine. A. Schoen. 1,453,192; Apr. 24.
Heel lift, Resilient. L. M. Oakley. 1,452,892; Apr. 24.
Heel press. E. E. Winkley. 1,452,670–2; Apr. 24.
Heel, Shoe. G. Di Dio. 1,452,959; Apr. 24.
High chair. M. Gronsdahl. 1,452,911; Apr. 24.
Hinge. B. T. Hain. 1,453,106; Apr. 24.
Hoisting mechanism. A. Falkenau. 1,452,964; Apr. 24.
Holding device. G. H. Reimer. 1,452,816; Apr. 24.
Hook: *See*—
Fishing hook.
Horseshoe for pitching contests. G. W. May. 1,453,156; Apr. 24.
Hot-air furnace. J. Chalmers. 1,453,063; Apr. 24.
Hovers and brooders, Ventilating means for chicken. J. W. Myers. 1,453,162; Apr. 24.
Humidifier. C. C. Hockins. 1,453,137; Apr. 24.
Hydrocarbon-containing materials, Apparatus for the treatment of naturally-occurring. C. P. Bowie and M. J. Gavin. 1,453,037; Apr. 24.
Ice-cream receptacles, Apparatus for removing the division plates from. H. Dilas. 1,452,678; Apr. 24.
Indicator: *See*—
Direction indicator. Time indicator.

Induction furnace, Multiple-unit. C. B. Foley. 1,453,097; Apr. 24.
Insect destroyer. C. H. La Croix. 1,452,918; Apr. 24.
Insulated apparatus and insulating the same, Thermally. G. Claude. 1,452,594; Apr. 24.
Insulator. C. F. Sauerelson. Re15,585; Apr. 24.
Insulator, Strain. L. Steinberger. 1,453,201; Apr. 24.
Insulators, Tool for forming. V. G. Apple. 1,453,118; Apr. 24.
Intermediates and dyestuffs of the anthraquinone series. F. W. Atack and C. W. Soutar. 1,452,774; Apr. 24.
Internal-combustion engine. E. C. Newcomb. 1,453,164; Apr. 24.
Invalids, Support for. G. Kennedy. 1,452,915; Apr. 24.
Iron and other metallic products, Apparatus for the production of sponge. E. B. Thornhill. 1,452,626; Apr. 24.
Iron and other metallic products, Production of sponge. E. B. Thornhill. 1,452,627; Apr. 24.
Iron, steel, or steel alloys, Making. J. A. Williams. 1,453,057; Apr. 24.
Jack: *See*—
Lifting jack. Scaffold jack.
Jack. S. A. Snell. 1,452,533; Apr. 24.
Jar holder, Fruit. W. C. Szykowny. 1,452,941; Apr. 24.
Jewel mount. M. J. Stern. Des. 62,268; Apr. 24.
Joint: *See*—
Oscillating joint. Universal joint.
Joints, Making welded and riveted. A. E. Ostrander. 1,452,523; Apr. 24.
Key-case holder. W. R. Buxton. 1,452,727; Apr. 24.
Key fastener. C. B. Loveland. 1,452,646; Apr. 24.
Kiln: *See*—
Drying-kiln.
Kiln. R. J. Dyer. 1,452,668; Apr. 24.
Kite. A. W. Cash. 1,452,956; Apr. 24.
Knitting machines, Needle-controlling mechanism for. M. C. Miller. 1,452,842; Apr. 24.
Knives, Attachment for skinning. H. W. L. Porth. 1,452,893; Apr. 24.
Label-affixing apparatus. M. B. Ferguson and E. Haas. 1,452,830; Apr. 24.
Labeling machine. N. Muslar. 1,453,020; Apr. 24.
Lamp. H. G. Fitz Gerald. 1,453,044; Apr. 24.
Lamp, Automobile. A. H. Reeks. 1,452,654; Apr. 24.
Lamp casing. C. F. Rabenold. Des. 62,243; Apr. 24.
Lamp device, Dirigible automobile. C. E. Kistner. 1,452,916; Apr. 24.
Lamp-house support, Combination. W. Wenderhold. 1,452,582; Apr. 24.
Lamp shade and stand, Combined. M. Kornblum. Des. 62,239; Apr. 24.
Lamp shade, Detachable and foldable. R. M. Amores. 1,452,773; Apr. 24.
Lamp shade, Electric. J. M. Crucet. Des. 62,231; Apr. 24.
Lamp stand, Electric. I. L. Kleinfield. Des. 62,236–8; Apr. 24.
Land roller, Motor-driven. W. Kippenhan. 1,452,974; Apr. 24.
Lapper. L. V. Warner. 1,452,769; Apr. 24.
Last support. J. C. Torcilla. 1,452,991; Apr. 24.
Lathe tool. J. O. Heinze. 1,453,133; Apr. 24.
Lead, Treating white. E. A. Sperry. 1,452,620; Apr. 24.
Lens-grinder attachment. J. J. Kovacs. 1,452,917; Apr. 24.
Lever, Foot. J. J. Reinhold. 1,452,759; Apr. 24.
Levers, Permutation locking mechanism for gear-shifting. J. Pfeifer. 1,452,652; Apr. 24.
Lifter: *See*—
Valve lifter.
Lifting jack, Hydraulic. J. Erbardt. 1,453,043; Apr. 24.
Lighting fixtures, Light receptacle for. T. Dahl. Des. 62,232; Apr. 24.
Link. V. Retterath. 1,452,817; Apr. 24.
Link, Fusible. H. M. Nacey. 1,452,522; Apr. 24.
Liquid through the conductors, Device for the cooling of electric apparatus by the circulation of. P. M. G. Toulon. 1,452,666; Apr. 24.
Liquids from aeriform mixtures, Process and apparatus for the recovery of the vapors of volatile. E. A. Barbet. 1,452,778; Apr. 24.
Liquids, Process of and apparatus for distilling. W. E. Sanger. 1,452,617; Apr. 24.
Lock: *See*—
Automobile lock. Tire lock.
Gear-shift lock.
Lock. W. B. Grubb. 1,452,503; Apr. 24.
Lock. E. O. Murmann. 1,452,812; Apr. 24.
Lock. S. L. Terry. 1,453,115; Apr. 24.
Locks, Time recorder for. G. Pullman. 1,452,846; Apr. 24.
Locking bolt. S. W. Band. 1,452,777; Apr. 24.
Locking bolt, Auxiliary. C. H. Miller and A. N. Scott. 1,452,567; Apr. 24.
Locking device. E. Siegel. 1,452,938; Apr. 24.
Locking device, Steering. L. Werle. 1,452,901; Apr. 24.
Locomotive driving box. E. W. Rawdon. 1,452,895–6; Apr. 24.
Looms, Filling-carrier support for. A. E. Rhoades. 1,452,655; Apr. 24.
Looms, Tube frame for Axminster. C. H. Collins. 1,452,791; Apr. 24.
Lubricant demonstrator. H. A. Nealley. 1,452,569; Apr. 24.
Lubricating device. C. A. Bacon. 1,452,775; Apr. 24.
Lug and pedal-shaft support, Chatterless. O. W. Gorenflo. 1,452,910; Apr. 24.
Luggage carrier and tire rack. C. J. Hepting. 1,452,970; Apr. 24.
Magnetic holder-on. W. Meyer. 1,452,841; Apr. 24.
Mail and other units, Feeding and imprinting mechanism for. A. J. Briggs. 1,452,867; Apr. 24.
Mail-distributing apparatus. A. J. Briggs. 1,453,125; Apr. 24.
Mangle or quetch. C. Ugnon, J. Galoppa, and C. Saldarini. 1,452,715; Apr. 24.
Manhole-platform support. C. N. Conlee. 1,452,548; Apr. 24.
Manicure article handle. J. Salm. Des. 62,247–9; Apr. 24.
Manifold heater. L. Flegal. 1,453,007; Apr. 24.
Manifolding register. J. Q. Sherman. 1,452,660; Apr. 24.
Match. J. G. Newman. 1,453,229; Apr. 24.
Matches, Process and apparatus for manufacturing. J. G. Newman. 1,453,228; Apr. 24.
Materials, Process and apparatus for grading solid. C. J. Reed. 1,452,515; Apr. 24.
Measuring instrument. E. Fuchs'. 1,452,834; Apr. 24.
Measuring instrument, Electrical. I. W. Brogger. 1,452,590–1; Apr. 24.
Measuring surface areas, Machine for. H. Thun. 1,453,211; Apr. 24.
Measuring the cubic contents of bodies, Mechanism for. P. V. Hollenbeck. 1,453,111–12; Apr. 24.
Melaleuca leucadendron to thermic, hydraulic, and dielectric devices, Application of the bark (suber) of. P. E. H. Roussan. 1,453,185; Apr. 24.
Memorandum pads and the like, Holder for. A. D. Robinson. 1,452,707; Apr. 24.
Metal wheel. L. E. Slauson. 1,452,661; Apr. 24.
Metals and other materials, Apparatus for testing the hardness of. H. Moore and R. Mather. 1,452,810; Apr. 24.
Milking machine pulsators, Actuating means for. C. H. Hapgood. 1,452,600; Apr. 24.
Mill: *See*—
Pulverizing mill. Tube-rolling mill.
Milling cutters by centrifugal force, Rotary mold for molding. M. J. Loehler. 1,452,838; Apr. 24.
Mixer: *See*—
Concrete mixer. Drink mixer.
Mixing machines, Door for. H. and J. H. Besser. 1,452,823; Apr. 24.
Mold-handling apparatus. J. S. Tindall. 1,452,665; Apr. 24.
Mop wringer. F. A. Eaton. 1,452,798; Apr. 24.
Motor controller. C. W. Yerger. 1,452,542; Apr. 24.
Mower, Motor-driven lawn. A. J. Dremel. 1,452,730; Apr. 24.
Music rolls, Apparatus for winding. N. C. Ferris. 1,452,965; Apr. 24.
Musical instrument, Automatic. T. P. Brown. 1,452,491; Musical instrument, Stringed. E. N. Guckert. Des. 62,235; Apr. 24.
Musical instruments, Torch holder for. E. B. and A. B. Medeiros. 1,452,977; Apr. 24.
Musical wind instruments, Machine for facing mouthpieces of. E. Bercioux. 1,452,953; Apr. 24.
Nail puller. J. B. Bradley. 1,422,545; Apr. 24.
Necktie display and illuminating stand. A. M. Kunz. 1,453,147; Apr. 24.
Necktie holder. H. Arvidson. 1,452,722; Apr. 24.
Necktie holder. J. S. Mead. 1,452,648; Apr. 24.
Needle, Baling-wire. W. A. Seymour. 1,452,712; Apr. 24.
Needle, Embroidery. F. B. Baker. 1,452,544; Apr. 24.
Nest for hens, Trap. O. K. Olson. 1,453,172; Apr. 24.
Nozzle, Spray. T. W. Murphy and W. Czarnecki. 1,453,161; Apr. 24.
Oil burner. F. C. Bretsnyder. 1,453,257; Apr. 24.
Oil burner. W. K. Lewis. 1,452,563; Apr. 24.
Oil burner. R. R. Morrill. 1,452,521; Apr. 24.
Oil-burner construction. J. C. Johnson. 1,452,559; Apr. 24.
Oiler, Spring. C. H. Sigwalt. 1,452,852; Apr. 24.
Oiling device. J. Worosila. 1,453,221; Apr. 24.
One-pipe furnace, Convertible. J. de Vries. 1,452,637; Apr. 24.
Optical instrument. F. H. Carssow. 1,452,675; Apr. 24.
Ordnance, Apparatus for use in the laying or sighting of. P. W. Gray. 1,453,104; Apr. 24.
Ores, Recovering zinc from lead-zinc. R. V. Smith. 1,452,662; Apr. 24.
Ornamenting surfaces. A. H. Levine. 1,453,076; Apr. 24.
Oscillating joint. H. C. Lord. 1,452,693; Apr. 24.
Oven or kiln, Gas-fired. J. H. Marlow. 1,452,887; Apr. 24.
Packaging articles, Machine for. I. Lazaga. 1,452,692; Apr. 24.
Packing case. R. H. Ellis and F. Simper. 1,453,004; Apr. 24.
Pail. M. E. Gray. Des. 62,233; Apr. 24.
Panel-board construction. E. A. Olley. 1,452,752; Apr. 24.
Paper, Machine for pressing and labeling interfolded sheets of. L. A. Straubel. 1,452,988; Apr. 24.
Paper-making machine. W. S. Crandell. 1,453,090; Apr. 24.

Paper, Means for detaching and delivering lengths of. E. Stephen. 1,452,621; Apr. 24.
Pedestal. L. Dostal. 1,453,239; Apr. 24.
Pen, Drawing. C. W. Thomas. 1,452,576; Apr. 24.
Pen, Fountain. R. J. McVicker. 1,453,152; Apr. 24.
Pen, Fountain. A. E. Poole and G. B. Vernier, jr. 1,452,653; Apr. 24.
Penduiet. J. W. Schulze. Des. 62,250; Apr. 24.
Phonograph records, Producing. V. H. Emerson. 1,452,872; Apr. 24.
Photographic paper holder. N. G. Baker. 1,452,996; Apr. 24.
Photographic printing machines, Light-controlling device for. W. D. Wood. 1,452,719; Apr. 24.
Photographic purposes, Production of sensitive films for. J. E. Brandenberger. 1,452,785; Apr. 24.
Pilot beam. C. T. Westlake. 1,452,538; Apr. 24.
Pin: *See*—
Piston pin. Safety pin.
Pintle-inserting machine. C. V. Strickland. 1,453,085; Apr. 24.
Pipes, Device for cleaning. H. Ruperti. 1,452,708; Apr. 24.
Piston. C. E. Johnson. 1,452,807; Apr. 24.
Piston pin. J. C. Engstrand. 1,453,095; Apr. 24.
Piston ring and making same. P. M. Klein. 1,452,645; Apr. 24.
Piston-ring holder. J. W. Mainwaring. 1,452,518; Apr. 24.
Pistons, Connecting rod for. C. A. G. Pritchard. 1,452,932; Apr. 24.
Plastic, or semiplastic, or similar materials, Forming and form-retaining means for. W. Kleeman. 1,453,071; Apr. 24.
Pliers, Combination. F. J. Keating. 1,452,642; Apr. 24.
Plow for planting potatoes. W. Hartenstein. 1,452,912; Apr. 24.
Plowlift. H. G. Knapp. 1,452,744; Apr. 24.
Polish, Automobile. G. A. Colette. 1,453,003; Apr. 24.
Polish, Shoe. J. H. T. Olsen. 1,452,614; Apr. 24.
Polishing machine. A. Orlando. 1,452,926; Apr. 24.
Poultry house. P. R. Lyding. 1,452,746; Apr. 24.
Powder duster. W. W. Goode. 1,453,102; Apr. 24.
Powder in automatic packaging machines, Feed for. B. F. Adams. 1,452,585; Apr. 24.
Powder puff. C. T. Boyd and G. S. Hershey. 1,453,038; Apr. 24.
Power-transmitting mechanism. B. F. Webb. 1,452,770; Apr. 24.
Press: *See*—
Heel press.
Presses, Sheet guard for platen. A. Danziger. 1,453,064; Apr. 24.
Pressing-machine pad. O. E. W. Brunk. 1,452,726; Apr. 24.
Price-scale casing. J. D. McGregor. Des. 62,234; Apr. 24.
Printing plate and process and composition of matter for forming the same and printing. R. John. 1,453,259; Apr. 24.
Printing surface with a colored emulsion, Making a contact transfer. R. John. 1,453,258; Apr. 24.
Puller: *See*—
Nail puller.
Pulverizing mill, Ball. F. A. Brewer and G. W. Branston. 1,452,786; Apr. 24.
Pump. C. A. Waltz. 1,452,579–80; Apr. 24.
Pump, Air. N. A. Petry. 1,453,178; Apr. 24.
Pump, Anti-drip. H. and F. C. Harman. 1,452,686; Apr. 24.
Pump-operating mechanism. M. N. Freeman. 1,452,968; Apr. 24.
Pump, Power. R. J. Fairchild. 1,452,963; Apr. 24.
Pumps, Automatic stop for windmill. E. Johnson. 1,453,142; Apr. 24.
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Razor and brush, Combined. K. Kohn. 1,453,014; Apr. 24.
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Receptacles, Bail for. C. A. Krauss. 1,452,562; Apr. 24.
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CLASSIFICATION OF PATENTS

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NOTE.—First number=class, second number=subclass, third number=patent number.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by one star (•); of the United States Circuit Court of Appeals by the letter (⁴); and of the Supreme Court of the United States by two stars (••).]

ERRATA.

15,597 (Design), May 15, 1923, page 554, in heading, first line, strike out "15,597. Measuring and Indicating Apparatus." and insert instead *62,251. Bicycle Frame. James C. Baine, Michigan.*

62,295 (Design) May 1, page 67, in heading, after residence of patentee insert the words *assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York.*

1,454,867, page 568, third claim, line 2, strike out the word "of".

166,672 (Registered Trade-Mark), page 1030, in the heading, after residence of registrant insert *assignor to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts.*

Alphabetical List of Patentees, page xxv, second column, line 2, insert *Lyndon, Lamar, New York, N. Y. Vent plug for storage batteries. 1,455,344; May 15.*

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Labels	37—No.	25,899 to No.	25,905,	inclusive.
Prints	12—No.	6,678 to No.	6,687,	inclusive.
Reissues	9—No.	15,586 to No.	15,594,	inclusive.
Designs	66—No.	62,200 to No.	62,214,	inclusive.
Patents	770—No.	1,453,260 to No.	1,454,029,	inclusive.
Total	1179			

Disclaimer.

1,224,253.—*Roy R. Wiley* and *Wallace K. Wiley*, Buffalo, N. Y., and *William S. Hough, jr.*, St. Catharines, Ontario, Canada. ILLUMINATED SIGN. Patent dated May 1, 1917. Disclaimer filed April 12, 1923, by the assignee, the *Flexlume Corporation*.

Hereby enters this disclaimer to those claims of the specification of said Letters Patent which are excessive, namely claims 8, 9 and 10 of said Letters Patent and which are as follows:

"8. In an illuminated sign, a sign character comprising a sheet of light transmitting material having the strokes of the sign character in spaced relation to the margins of the sheet, a covering of sheet metal for the exterior of the sheet of light transmitting material leaving the character strokes exposed, said covering being of greater spread than the area defined by the character strokes, and angle strips of sheet metal each of an extent to embrace the marginal portions of the sheet of light transmitting material exterior to the area defined by the character strokes with the angle edge of each angle member in spaced relation to the corresponding edge of the sheet of light transmitting material, and fastening means traversing the angle member between the edge of the sheet of light transmitting material and the angle edge of the angle member and also secured to the exterior metal covering of the sign character.

"9. In an illuminated sign, a sign character comprising a sheet of light transmitting material with the character strokes in spaced relation to the margin of the sheet, an exterior opaque covering for that portion of the sheet of light transmitting material other than the character stroke portions thereof and extending beyond the margins of said sheet, and holding means for the sheet of light transmitting material comprising angle strips applied to the marginal portions of the sheet with fastening members traversing the angle strips exterior to the marginal portions of the sheet and securing the angle strips to the exterior covering for the sheet of light-transmitting material.

"10. An illuminated sign comprising a casing having openings therein, doors mounted in said openings, and each comprising a sheet of metal cut out in conformity with the outline of a sign character, a plate of light-transmitting material with a sign character produced thereon in relief, and holding members applied to the marginal portions of the sheet and to the door with the inner face of the sheet except where engaged by the holding members wholly exposed."

Interference Notices.

U. S. PATENT OFFICE, *Washington, Apr. 3, 1923.*

Rex Fluid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Rex Laboratories, of 2453 North Halsted Street, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 4, 1906, No. 58,083, to the Rex Fluid Company, Des Moines, Iowa, and a notice of such declaration sent by registered mail to said Rex Fluid Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rex Fluid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 11, 1923.*

Austin Poor & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ireland Bros., Inc., of 102 Franklin Street, New York, N. Y., for registration of a trade-mark and trade-mark registered June 26, 1906, No. 54,319, to Austin, Poor & Co., of 72 Leonard Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Austin, Poor & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Austin Poor & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 16, 1923.*

Jiffy Apron Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Jiffy Jumper Mfg. Co., of 39 West Adams Street, Chicago, Ill., and Guiterman Brothers, of Fourth and Sibley Streets, St. Paul, Minn., for registration of trade-mrks and trade-mark registered February 9, 1915, No. 102,521, to Jiffy Apron Company, 255 Gratiot Avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to said Jiffy Apron Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jiffy Apron Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 20, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 73,846; Trade-Mark Division, 3,986. Oldest new case, April 28, 1922; oldest amended, May 3, 1923. The dates given are 1923 except where * indicates 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators: Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	July 24	July 8	1,148
128	2. HADEN, C. F. (Acting). Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	June 26	July 8	1,631
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 15	May 19	1,713
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways: Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 26	*Jan. 18	1,394
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 11	June 30	1,364
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Aug. 15	Dec. 1	1,576
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	July 1	Sept. 20	2,480
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Nov. 9	*Jan. 2	1,530
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 8	*Mar. 15	868
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 6	July 31	1,411
154	11. ARMSTRONG, H. C., Boot and Shoe Making: Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Oct. 2	Sept. 23	1,037
322	12. PIERCE, P. P., Machine Elements	Sept. 15	Oct. 20	1,540
329	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 28	*Jan. 8	1,339
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 3	*Mar. 17	1,202
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 21	Aug. 10	2,035
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	May 19	May 3	2,513
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	May 22	Oct. 23	1,493
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 6	May 8	2,046
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 26	*Jan. 6	815
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 2	Oct. 12	1,902
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 9	Nov. 3	1,024
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 29	Oct. 5	644
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	May 5	881
144	24. DURAS, C. O., Apparel: Apparel Apparatus; Garment Supporters; Sewing Machines	June 21	Sept. 6	1,578
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 15	*Jan. 11	429
105	26. HODGES, J. S., Electricity, Generation: Motive Power; Prime-Mover Dynamo Plants	June 7	July 25	875
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 24	June 9	2,184
225	28. BENSON, A. R., Internal-Combustion Engines	June 28	Sept. 9	1,619
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 1	Dec. 18	724
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 4	Dec. 27	1,764
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 15	June 19	1,741
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 1	Sept. 1	1,281
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valves; Pipe Joints or Couplings.	June 5	June 1	1,674
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Sept. 28	Nov. 27	745
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Dec. 5	*Feb. 15	1,006
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Oct. 9	Sept. 9	1,908
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 16	June 27	1,830
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	May 18	June 2	1,936
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 4	June 21	1,521
269	40. OBERLIN, J. J., Baggage: Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	June 26	Sept. 28	2,162
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 10	Aug. 17	964
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 16	May 27	1,730
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery: Liquid Separation or Purification.	July 14	July 15	1,320
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	June 24	Nov. 22	1,319
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 14	Sept. 9	1,508
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	July 12	Aug. 4	1,471
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	June 29	Oct. 5	1,238
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 28	June 10	2,415
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	June 13	June 29	766
102	DESIGNS: C. O. MARKHAM (Acting)	July 10	Nov. 18	2,552
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Dec. 11	*Mar. 28	3,966
	{Labels and Prints	*Apr. 14	*Apr. 17	20

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE THE BRADFORD DYERS' ASSOCIATION, LTD.

Decided January 5, 1923.

TRADE-MARKS—REGISTRATION BY A PARTY WHO DYES BUT NEITHER BUYS NOR SELLS FABRICS.

Where an applicant dyes goods, which operation results in a finished fabric, and stamps its mark upon the goods dyed by it as a guarantee of the quality of the dye and the character of the dyeing as well as of the quality of the fabric selected for dyeing, after which the fabric is placed upon the market, *Held* that the goods dyed being goods of commerce the applicant is entitled to registration, although it does not appear that the applicant either buys or sells the goods which it dyes.

APPEAL from Examiner of Trade-Marks.

TRADE-MARK FOR WOOLEN PIECE GOODS.

Mr. William Wallace White for applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiner of Trade-Marks refusing to register applicant's mark. Applicant alleges that it has established a world-wide reputation for the quality of its dyes and finishes. It receives woven fabric, the weaving having been accomplished by some other concern or concerns whose business it is to weave the raw fibers into the fabric. Applicant dyes the goods, which operation results in a finished fabric, which is then placed upon the market. Applicant stamps its mark upon the goods dyed by it as a guarantee of the quality of the dye and the character of the dyeing as well as of the quality of the fabric selected for dyeing. It alleges that this indication of its mark is well known to the trade. It does not appear, however, that applicant either buy or sells goods which it dyes. The Examiner suggests that unless applicant shows that it actually owns the goods which it dyes and that the finished goods are marketed by it its mark is not used in commerce, and therefore it is not a trade-mark. Reliance is placed upon *ex parte Hankison* (8 O. G., 89; 1875, O. G., p. 72); but there the applicant was a carpet cleaner, and the goods before being treated by applicant had been withdrawn from commerce.

Applicant refers to *Amoskeag Mfg. Co.* v. *Garner* (155 Barb., 151), where a State court apparently was willing to protect a mark of one who took fabrics woven by other manufacturers and printed designs on them. It may be that applicant is entitled to protection at common law, but is not entitled to trade-mark registration. In 1880, however, in an English case (*re Sykes & Co.'s Trade-Mark*, 43 Law Times, New Series, p. 626) the English court held that the mark of a firm which bleached cotton was a good and registrable trade-mark. The decision indicates that the facts there differed from the present case merely in that in the Sykes case the goods were bleached by the applicant, where here the goods are dyed by the applicant.

On the state of facts here shown it is certainly of benefit to the public to be able to know that its goods are dyed by a proper party. The goods dyed are goods of commerce. It is a questionable case, but readily distinguishable from the typical cases of organizations rendering service for whom registration has been denied. Cleaning carpets, selling mortgages, writing insurance, doing laundry work, is different from dyeing goods as one step in their manufacture.

The present mark has been registered in England.

Until the courts definitely determine that applicant is not entitled to registration I believe this Office should give it the benefit of the doubt.

The Examiner is reversed, and the mark will be registered.

Supreme Court of the United States.

EIBEL PROCESS COMPANY *v.* MINNESOTA & ONTARIO PAPER COMPANY.

Decided February 19, 1923.

1. PATENTABILITY—UNIVERSAL ADOPTION OF INVENTION—ACQUIESCENCE BY TAKING LICENSE—LICENSES BY PARTIES FINANCIALLY INTERESTED IN PATENT.

Where the makers of two-thirds of all the print paper of the country are licensees of E., but the makers of the greater part of this output are shareholders in E.'s company, and practically all the other manufacturers of the country use E.'s improvement, it can hardly be that dividends on the stock held by the shareholding licensees would furnish motive enough for them to continue to be licensees and to use something that was not of great advantage to them.

2. SAME—SAME—MARKED INCREASE IN PRODUCTION.

The fact that E.'s improvement has been generally adopted in the paper-making business and that the daily product in paper making has thus been increased at least twenty per cent over that which had been achieved before E. is very weighty evidence to sustain the presumption from his patent that what he invented and discovered was new and useful, but the presumption is not conclusive and may be explained.

3. EVIDENCE—PRIOR DISCOVERY MUST BE CLEARLY AND SATISFACTORILY PROVEN.

The temptation to remember in cases where important results are attained by carrying forward old expedients and the ease with which honest witnesses can convince themselves after many years of having had a conception at the basis of a valuable patent are well known in this branch of the law, and have properly led to a rule that evidence to prove prior discovery must be clear and satisfactory.

4. EVIDENCE OF PRIOR DISCOVERY WHERE INVENTION COMES AS A SURPRISE AND IS UNIVERSALLY ADOPTED.

Considering the indisputable fact that E.'s successful experiment and his application for a patent surprised the whole paper trade, and that for a short time many held back from risking so radical a change and then all adopted it, oral evidence that some per-

sons had discovered the source of trouble and the means of remedying it some years before E. is incredible.

5. CONSTRUCTION OF PATENTS—IMPORTANT AND UNIMPORTANT IMPROVEMENTS.

If an invention has advanced the art substantially, then the court is liberal in its construction of the patent to secure the inventor the reward he deserves. If what he has done marks only a slight step forward and that which he says is a discovery is on the border line between mere mechanical change and real invention, then his patent will be given a narrow scope and infringement will be found only in approximate copies of the new device. * * * A patent which is only an improvement on an old machine may be very meritorious and entitled to liberal treatment.

6. SAME—PATENT FOR AN AVOWED IMPROVEMENT MAY IN ADDITION COVER FEATURES OF OLD MACHINE NOT MENTIONED IN SPECIFICATION.

Where E. is an avowed improver upon a well-known and universally used machine in which the subject matter of his improvement had always been controlled by two factors, and he says nothing in his specification to exclude these factors, but merely adds another factor, and defendants contend that the patentee mentions no other factor, that he must be confined to this, and that a machine which used other factors for this purpose does not infringe, *Held* that the patent is to be construed to cover a machine of the old type in which the improvement is used as an appreciable factor, in addition to the factors theretofore known in the machine in bringing about the desired result.

7. SAME—DEFINITENESS—RELATIVE TERMS SUFFICIENT WHERE IT IS DIFFICULT TO BE MORE DEFINITE AND THE TERMS ARE UNDERSTOOD BY THOSE SKILLED IN THE ART.

Where it was difficult to be more definite, due to the varying conditions existing in the operations of a machine, but where reference in the specification to the small elevations shown in earlier devices indicated that the patentee had in mind substantial elevations as compared with them in order to achieve his result, where the drawing indicates a definite elevation, and where the evidence discloses that one skilled in the art had no difficulty when his attention was called to its importance, in determining what was the elevation required to produce the desired result, *Held* that such expressions as "high" and "substantial" were sufficiently definite.

8. ANTICIPATION—ACCIDENTAL RESULTS NOT INTENDED AND NOT APPRECIATED.

Where the defendant contended that whether a prior patentee perceived the advantage of speeding up the stock to an equality with the wire, yet the necessary effect of their devices was to achieve that result, and therefore their machine anticipated E., *Held* that there was no evidence that any pitch of the wire used before E. had brought about such a result as that sought by him, and if it had done so under unusual conditions, accidental results, not intended and not appreciated, do not constitute anticipation.

9. PATENTABILITY—CHANGE IN DEGREE WITH WHOLLY DIFFERENT OBJECT FROM THAT OF THE PRIOR ART.

Where the defendant contended that the alleged invention covers only a matter of degree in pitch, *Held* that this attack upon E.'s patent cannot prevail where E.'s high or substantial pitch was directed toward a wholly different object from that of the prior art.

10. SAME—CHANGE IN DEGREE TO REMEDY A HITHERTO UNKNOWN SOURCE OF TROUBLE.

Where the invention was not the mere use of a high or substantial pitch to remedy a known source of trouble, but was the discovery of a source not before known and the application of the remedy, the inventor was entitled to be rewarded in his patent.

11. SAME—DISCOVERY OF LONG-SOUGHT SOURCE OF TROUBLE AND APPLICATION OF REMEDY—UNIVERSAL ADOPTION OF REMEDY.

The fact that in a decade of eager quest for higher speeds an important chain of circumstances had escaped observation, the fact that no one had applied a remedy for the consequent trouble until E., and the final fact that when he made known his discovery all adopted his remedy, leave no doubt that what he saw and did was not obvious and did involve discovery and invention.

12. SAME—VALIDITY OF PATENT NOT AFFECTED BY POSSIBILITY OF ACCOMPLISHING SAME RESULT IN ANOTHER WAY.

Although the speed of flow by gravity may be increased by increasing the head of the flow box, this does not affect the validity of E.'s patent, which covers a change in the inclination of the endless carrier for accomplishing the same result, especially since there were difficulties in the first method at the time he filed his application.

13. INFRINGEMENT—MAY BE AVOIDED BY ACCOMPLISHING SAME RESULT IN ANOTHER WAY AND BY DIFFERENT MEANS.

If defendant or others can do what E. accomplished in another way, and by means he did not include in his specification and claims, they are at liberty to do so and avoid infringement.

CERTIORARI to the United States Circuit Court of Appeals for the First Circuit.

Mr. Frederick P. Fish, Mr. Harrison F. Lyman, and *Mr. Guy Cunningham* for the petitioner.

Mr. Nathan Heard, Mr. Maurice M. Moore, Mr. Amasa C. Paul, and *Mr. Livingston Gifford* for the respondent.

STATEMENT OF THE CASE.

This was a bill in equity charging the infringement of a patent and seeking an injunction, an accounting and damages. The Patent No. 845,224 issued to William Eibel, February 26, 1907. The application was filed August 22, 1906. The specifications describe the patent as for an improvement for Fourdrinier machines for paper making and say that—

it has for its object to construct and arrange the machine whereby it may be run at a very much higher speed than heretofore and produce a more uniform sheet of paper which is strong, even and well formed.

The contention of the plaintiff, the petitioner here, is that his improvement was an important step in the art of paper making, and increased the daily product from twenty to thirty per cent.

The patent was held void by the District Court for the Western District of New York in the case of *Eibel Process Company* v. *Remington-Martin Company* (226 Fed., 766, 1914). On appeal, the Circuit Court of Appeals for the Second Circuit reversed the decree of dismissal in the district court, sustained the patent and found infringment of claims Nos. 1, 2 and 3, but did not pass upon claims Nos. 7, 8 and 12. (234 Fed., 624, 1916). The bill in the present case was filed in the district court for Maine, January 1, 1917. That court in 1920 held the patent valid and entered a decree of injunction and for damages. (267 Fed., 847). On appeal, the Circuit Court of Appeals for the First Circuit reversed the decree and directed the dismissal of the bill. (274 Fed., 540, 1921). Because of the conflict in the two circuits, certiorari was granted to review the latter decree.

The Fourdrinier machine has for many years been well known and most widely used for making newsprint paper. Its main feature is an endless wire cloth sieve passed over a series of rolls at a

constant speed. The sieve known as the "wire" is woven with 60 or 70 meshes to the inch. It may be 70 feet or more in length and is often more than 100 inches in width. Its working surface with the total length of 70 feet is about 30 feet, the rest being taken up in the return of the wire underneath. At what is called the breast roll, at one end of the machine, there is discharged upon the wire from a flow box or pond, a constant stream of paper making stock of fibres of wood pulp mixed with from 135 to 200 times their weight of water of the consistency and fluidity of diluted milk. As this stream moves along the wire, the water drains through its meshes and the fibres are deposited thereon. The process is stimulated by a device to shake the wire with constant and rapid sidewise thrusts, forward and back, which insures the proper interlocking and felting of the stock as it progresses, the water continuing to drain from it. At the end of the surface length of the wire, the stock reaches what are called the couch rolls between which it is pressed and then in the form of a sheet of uniformly-distributed pulp, felted sufficiently to hold together, it leaves the wire and is carried through a series of rolls or calenders by which the sheet is pressed and dried and from which it emerges to be rolled up as finished paper.

In the flow box or "pond" where the stream of pulp stock is stored there is a gate or door forming the end of the flow box called the "slice" by lifting which the stock is given the opportunity to flow upon the wire. The stream thus issuing is given a width of the desired sheet of paper and a depth regulated by the height to which the slice is lifted. The stream on the wire is prevented from flowing off the sides by "deckle straps" which are thick rubber bands, resting on each side of the wire at each side of the pulp. Traveling with the wire, they form lateral walls confining the stock till it is too dry to flow. Between the breast roll where the stream of liquid stock strikes the wire, and the couch rolls at the end of the surface length of the wire, there is a series of parallel horizontal rolls supporting the wire, called table rolls, and twenty feet from the breast roll, there are placed under the wire and in contact with it, three suction boxes in succession, in which a partial vacuum is maintained and through them is sucked out the greater part of the water remaining in the wet sheet of the pulp. Placed above the wire and just beyond the first suction box is what is called the "dandy roll" which is faced with wire cloth. Its office is to impress the upper surface of the forming sheet of paper and give it a texture similar to that which the lower surface of the paper has from its contact with the wire. It may also carry the design which is to give the watermark to the sheet if such a mark is desired. Beyond this is a larger roll called the guide roll, arranged with an automatic device varying its axis so as to keep the wire straight. From the guide roll the wire drops below the plane to the couch rolls already referred to.

These machines are very large, some of them weighing more than a million pounds, and their cost will range as high as one hundred twenty-five thousand dollars. They are run night and day in order that the capital invested in them may yield a proper return. Speed which increases production is therefore of the highest importance. Eibel's patent had for its avowed purpose the increase of this speed.

Eibel says in his specifications:

My invention is embodied, essentially, in the first part or element of the machine having the Fourdrinier wire or paper-making wire, and consists in causing the stock to travel by gravity in the direction of movement of the making-wire and approximately as fast as the making-wire moves, thereby resulting in a "gravity-feed" for the machine. The stock may be and preferably is caused to travel more rapidly than the normal or usual speed of the making-wire for a certain grade of stock, and means are provided for increasing the speed of the machine so as to cause the making-wire to move at a higher rate of speed than usual, being substantially equal to the speed of the rapidly-moving stock. To accomplish this result in a simple manner, the breast-roll end of the paper-making wire is maintained at a substantial elevation above the level, thereby providing a continuous downwardly-moving paper-making wire, and the declination thus given to the wire is such that the stock is caused to travel by gravity in the direction of the movement of the wire and substantially as fast as the wire moves. The declination of the paper-making wire may be adjustable or the speed of the wire may be adjustable, in order that the velocity produced by gravity in the stock on the declining wire will approximately equal the speed of the wire. By this arrangement the speed of the machine may be increased to such an extent as to bring the speed of the making-wire up to the maximum velocity of the rapidly-moving stock and a strong, even and well-formed sheet produced which is more uniform than usual.

Two figures accompany the specifications of the Eibel patent. Figure No. 1 shows the wire of the Fourdrinier machine in outline from the breast roll to the guide and couch rolls, with a screw device for raising and lowering the breast roll and wire from the horizontal. The outline shows an elevation of the breast roll and wire so that the angle between the wire and the horizontal at the guide roll is about four per cent, which in a surface length of 30 feet would mean an elevation of 12 inches at the breast roll. The other figure No. 2 shows a device for regulating the speed of the wire applied at the lower couch roll.

Again the patentee says:

For the purpose of increasing the speed of the machine to the maximum I maintain the breast-roll end of the making-wire at a high elevation above the level, so that the stock travels by gravity much faster than the making-wire ordinarily runs for a certain grade of stock, and I then increase the speed of the machine to such extent as to bring the rate of speed of the making-wire up to the speed of the rapidly-moving stock, and as a result the capacity of the machine is largely increased.

I find in practice that by providing a gravity-feed operating substantially as herein described, the stock runs smoothly and evenly without waving or rippling, and the fibers are thereby permitted to settle with great uniformity as regards their distribution over the wire, so that the paper in addition to being well formed is very uniform. Furthermore, as the stock is moving with the paper-making wire instead of being moved by the wire, or essentially by the wire, the formation of the paper will begin at the start and will continue to the end of the travel of the stock with the wire.

The claims in question are:

1. A Fourdrinier machine having the breast-roll end of the paper-making wire maintained at a substantial elevation above the level, whereby the stock is caused to travel by gravity, rapidly, in the direction of movement of the wire, and at a speed approximately equal to the speed of the wire, substantially as described.

2. A Fourdrinier machine having the breast-roll end of the paper-making wire maintained at a high elevation, whereby the stock is caused to travel by gravity faster than the normal speed of the wire for a certain grade of stock, and having means for increasing the speed of the machine to cause the wire to travel at substantially the same rate of speed as the rapidly-moving stock, substantially as described.

3. A Fourdrinier machine having the paper-making wire declined from the breast-roll to the guide-roll, the breast-roll end of the wire being maintained at a substantial elevation above the level, whereby the stock is caused to travel by gravity, rapidly, in the direction of movement of the wire and at a speed approximately equal to the speed of the wire, substantially as described.

7. A Fourdrinier machine having the paper-making wire declined from the breast-roll to the guide-roll, and the suction-boxes supported at a corresponding declination, substantially as described.

8. A Fourdrinier machine having the paper-making wire declined from the breast-roll to the guide-roll, and the several suction-boxes arranged at different elevations, substantially as described.

12. In a Fourdrinier machine, a downwardly-moving paper-making wire, the declination and speed of which are so regulated that the velocity of the stock down the declining wire, caused by gravity, is so related to the velocity of the wire in the same direction, that waves and ripples on the stock are substantially avoided and the fibers deposited with substantial uniformity on the wire, substantially as described.

Mr. Chief Justice TAFT, after stating the case as above, delivered the opinion of the Court.

The evidence in the case establishes that before Eibel entered the field, continued high speeds in the wire of the Fourdrinier machine much beyond five hundred feet a minute resulted in defective paper. Eibel concluded that this was due to the disturbance and ripples in the stock as it was forming at a point between the breast roll and the first suction box, caused by the fact that at that point the wire was travelling much faster than the stock, and that if at that point the speed of the flowing stock could be increased approximately to the speed of the wire, the disturbance and rippling in the stock would cease and the defects would disappear from the paper product. Accordingly he proposed to add to the former speed of the stock by substantially tilting up the wire and giving the stock the added force of the downhill flow. He thought that as long as he could thus maintain equality of speed between stock and wire at the crucial point, and prevent the disturbance and rippling there, a further increase in the speed of the wire would not result in a defective product. He confirmed this by actual trial.

The first and most important question is whether this was a real discovery of merit. The circuit court of appeals thought not. The prior art and the obvious application of the principle that water will run down hill in their opinion robbed it of novelty or discovery. The issue is one largely of evidence.

The plaintiff below introduced the patent and some evidence of infringement and a single expert to explain the discovery and invention and rested. Then the defendant brought in a mass of evidence to show prior discovery and use, to impeach the utility of plaintiff's alleged invention and to demonstrate the indefiniteness of specification and claims. The fact that the adjudication of the validity of the patent would impose a royalty on many of the paper manufacturers of the country who were not already licensees of the plaintiff led to the defendant's sending a circular letter to awaken the interest and secure the help of all so situated. This, as the record shows, had the effect to invoke offers of testimony on the critical points in the case from the unlicensed part of the trade. The plaintiff adduced a few witnesses in rebuttal as to particular details and the same expert as in chief. The plaintiff's case as presented on the record is largely the presumption of validity and novelty attaching to the patent and such evidence as comes from defendants' witnesses. A case that can be made out in all its elements by cross-examination of opposing witnesses is a strong case. Implication of facts and conditions falling from the mouths of witnesses when only collateral to the exact point of inquiry for which they are called is generally the most trustworthy evidence because the result of the natural, so to say, subconscious adherence to truth uninfluenced by a knowledge or perception of the bearing of the implication on the ultimate issue in the case.

A thorough examination of the whole voluminous record produces a satisfying conviction first that for years newsprint paper makers and manufacturers of paper-making machinery were engaged in seeking a method of increasing the speed of the newsprint machines, and that they had succeeded by improving the stock and by strengthening the parts in bringing the speed of the wire and the delivered paper up to between five and six hundred feet a minute but that when these high speeds were attained and maintained for any length of time, though they served to enable manufacturers to advertise such maximums, their continued and regular operation showed defects in the paper which were only overcome by a reduction of speed to something less than five hundred feet. As against advertisement, and the exuberant memory of witnesses, the actual contemporaneous record of daily figures of production whenever brought to light justifies this conclusion. A leading manufacturer, one of the most enthusiastic witnesses on the subject of speed before Eibel produced a memorandum of a visit he made in October, 1904, less than two years before Eibel's application, to see the operation of a machine he had manufactured which he called "the banner installation of the world" and made an entry in his diary, "Grand Sight—475 feet." There is the usual unconscious straining of memory without written record carried back ten or fifteen years, but the evidence on the whole is satisfying that the practical speed for the regular production of good newsprint paper never much exceeded that speed which had gratified the pride of this witness. A typical case is in that of machines made by Bagley & Sewall, large manufacturers of paper-making machines for the Laurentide Paper Company. The president of Bagley & Sewall testified that the speed of the machine was 552 feet a minute with satisfactory paper, and that he visited Laurentide in October, 1904, and counted the revolutions himself. He produced a letter from Mr. Chahoon, of the Laurentide Company, of about the same date, confirming his statement of the count and the satisfactory product and an advertisement of Bagley & Sewall to the same effect of January, 1905. In rebuttal, a monthly record of the work of the machine is produced by the foreman at Laurentide for this same machine from January, 1905, to December, 1906, showing the speed to vary from a maximum of 518 in 1905, to 475 in 1908, with a general average of less than 500 and an explanation that the high speeds did not make a good product and were reduced. Our conclusion is confirmed, and indeed the importance of the issue of fact as to maximum speed before Eibel is minimized by the circumstance, uncontroverted, that the owners of these fastest machines, at once upon Eibel's publication of his discovery, adopted his pitch and increased their product.

What Eibel tried to do was to enable the paper maker to go to six or seven hundred feet and above

in speed and retain a good product. Did he do it? Eibel was the superintendent of a paper mill at Rhinelander, Wisconsin. Before August, 1906, he raised the pitch of the wire from two or three inches to twelve inches and greatly increased the speed with a satisfactory product and in that month he applied for a patent. The defendant's witnesses without exception refer to that disclosure as something that surprised and startled the paper-making trade. It spread, to use the expression of one witness, like wild fire. There were those who hesitated to take the venturesome step to give such an unheard of pitch to the wire and waited until others assumed the risk, but the evidence is overwhelming that within a short interval of a year or two all of the fast machines were run with wires at a pitch of twelve inches and that this pitch has been increased to fifteen and eighteen and even twenty-four inches, that the speed of the machines with satisfactory product has increased to six hundred, six hundred and fifty, and even seven hundred feet, with plans now even for a thousand feet and that the makers of two-thirds of the print paper of the country are licensees of Eibel.

[1] Defendant attempts to break the effect of this evidence by showing that five of the largest paper manufacturers who are licensees of Eibel are also shareholders in the Eibel Process Company, the plaintiff, and that they make 2200 tons of the 5000 tons of paper made daily in the United States. This circumstance seems to have had influence with the circuit court of appeals. There are, however, ten other paper-making companies, not shareholders, who are licensees and use the Eibel pitch, and whose aggregate production is 1200 tons a day; and what is equally significant, thirteen other companies have contributed to a fund to help in resisting the establishment of the right of Eibel to claim a royalty for the use of this high or substantial pitch of the wire in the making of paper. Presumably they too find it wise to use the Eibel pitch. The paper makers in this country who do not use the Eibel pitch, therefore, are few. It can hardly be that dividends on the shares of stock in the Eibel Company held by the five large companies would furnish motive enough for them to continue to be licensees and to use something that was not of great advantage to them in their chief business of making of paper; and certainly no such motive would explain the action of the licensees who are not stockholders or that of the infringers, in continuing to use the Eibel pitch. It should be said that one of the large manufacturers of paper-making machinery called by the defendant said that since 1907 he had not installed a single machine without the Eibel pitch.

[2] The fact that the Eibel pitch has thus been generally adopted in the paper-making business and that the daily product in paper making has thus been increased at least twenty per cent over that which had been achieved before Eibel is very weighty evidence to sustain the presumption from his patent that what he discovered and invented was new and useful. Of course, although very persuasive, it is not conclusive and may be explained. This brings us to the consideration of the evidence of the prior art and the contention of the defendant, and the conclusion of the court below, that the step taken by Eibel, so far as he took one, was a mere obvious application of fully developed devices in the prior art.

Eibel in his patent gives this measure of the prior art:

> The Fourdrinier wire has usually been arranged to move in a horizontal plane, although I am aware that means have been provided for adjusting the breast roll and of the wire to different elevations usually below the level, to provide for running with different grades of stock—as for instance with quick stock and slow stock; but so far as I am aware the making-wire has always had to perform the work of drawing along the stock and as the wire moved much faster than the stock the stock waved or rippled badly near the breast roll end of the wire, which gradually diminished until an equilibrium was established and a smooth, even, glassy surface presented, and not until the waving or rippling ceased did the fibres lay down uniformly and produce a well formed sheet of paper. The machine has been run necessarily at a slow rate of speed to give ample time for the water to escape and for the fibres to lay down so as to make a uniform sheet, and in case the time was insufficient, the breast roll end of the wire has been lowered still further until the desired result was accomplished. In accordance with my invention I operate entirely above the level to cause the stock to travel by gravity at a velocity approximately equal to the speed of the making wire which I believe to be a new principle of operation.

It is important that the stock when it reaches the "dandy" roll beyond the first suction box of the machine, shall be, on the one hand, free enough of water to be a formed sheet and take an impression from the dandy roll, and on the other that it shall not be so dry that it will not retain the impression. Paper of such a heavy composition of fibre and water that it holds water long is said to be slow stock. Paper of lighter and thinner composition parting with water easily and drying quickly is called quick stock. Various means were adopted to give the stock the proper degree of dryness at the dandy roll, usually by adjustment of the composition of the stock. What Eibel describes in this reference was another means. It was not widely used however. It was a slight depression or elevation in the wire at the breast roll so that slow stock could be made to run up hill from the flow box to the dandy roll, lengthening the time of the movement and thus giving more opportunity in its progress for the needed draining of the stock. On the other hand, fast or thin stock from which the water flowed too easily could be made to retain sufficient water by hastening its progress to the dandy roll by the downhill tilt of the wire. This tilt was obtained by raising the breast roll end of the wire either by putting shimming blocks under that end of the machine or by special devices to be described. The sole object was greater or less drainage of stock for the dandy roll. The Eibel invention is distinguished from the prior art in two ways, first in that the pitch of the wire was for a different purpose to be accomplished, not at the dandy roll some twenty or more feet from the breast roll, but at a point only nine or ten feet from there, and, second, by the fact that to achieve

his purpose a high or substantial pitch must be given to the wire, while only a small or trivial pitch was needed for the drainage of the prior art.*

This difference in purpose and degree of pitch between Eibel's device and the prior art is quite clearly shown by reference to a patent granted to Barrett and Horne, assignors to J. H. Horne & Sons, one of the important manufacturers of paper machinery of the country, in 1899. Their specifications showed a device capable of elevating the breast roll less than three inches and its sole purpose was for drainage. Their specifications say:

> In certain kinds of pulp, notably the wood pulp which is now largely used in making paper, the water drains away very rapidly so that the pulp may become nearly dry before it leaves the shake frame, and thus not be properly laid when it reaches the rollers. This tendency may be obviated to a considerable extent by downwardly inclining the shake frame toward the rollers, so that the water tends to travel along with the pulp and will not, therefore, drain out through the wire so rapidly. It is further desirable that the amount of inclination or slope should be variable, so as to adapt the machine for pulp of different kinds or grades.

The Bayliss Austin machine, one of three chiefly relied on to show prior use, was made by the Horne Company and was designed by Barrett and Horne on the model of this patent. It is very clear from an examination of the design and contract for this machine that the pitch of the wire in it could not have exceeded three inches and that it was used for drainage. Other patents were set up in defense, some of them showing devices for raising the breast roll and wire above the level, and lowering them below the level for the purpose of drainage. The angle of elevation and depression was always small. There was a constant straining by the witnesses for the defense to increase the elevation before Eibel. On the direct examination they began with a positive assertion that a pitch of four, five, and even six inches, had been used in certain machines before Eibel's time but written records, contracts and specifications brought out on cross-examination show nothing more than three inches provided for purpose of drainage and not more than that was used. This is not to say that witnesses in the face of such records did not testify to a higher elevation, but in such cases the amount of elevation rested in memory running back more than ten or fifteen years, a memory stimulated by the subsequent high pitches of Eibel and the retrospect of the progress that now seems so easy and clear to every one. There was, too, always indefiniteness as to when such increase in elevation of the wire had taken place whether before or after August, 1906, Eibel's date, and there was no evidence of weight, we think, after a full examination of the record, sufficient to justify a finding that such elevations had ever exceeded three inches before his application.

[3, 4] This is confirmed by the fact that greater elevation was not needed for the purpose of drainage for which it was devised and used. It is true that some witnesses testify that they realized before Eibel's application that speeding up the stock to equal velocity with the wire would solve the difficulty and aid the speed. But there is not a single written record, letter or specification of prior date to Eibel's application that discloses any such discovery by anyone, or the use of the pitch of the wire to aid the speed of the machine. The oral evidence on this point falls far short of being enough to overcome the presumption of novelty from the granting of the patent. The temptation to remember in such cases and the ease with which honest witnesses can convince themselves after many years of having had a conception at the basis of a valuable patent, are well known in this branch of law, and have properly led to a rule that evidence to prove prior discovery must be clear and satisfactory. (*Barbed Wire Patent Case*, 143 U. S., 275, 284; 58 O. G., 1555; *Loom Co.* v. *Higgins*, 105 U. S., 580, 591; 21 O. G., 2031.) Indeed when we consider the indisputable fact that Eibel's successful experiment at Rhinelander and his application for a patent surprised the whole paper trade, and that for a short time many held back from risking so radical a change and then all adopted it, oral evidence that some persons had discovered the source of trouble and the means of remedying it some years before Eibel is incredible. We are confirmed in this conclusion by the finding of Judge Hale in the district court which is not offset by the reversal of his decree in the circuit court of appeals because that court seems to have reached its conclusion chiefly on other grounds yet to be considered.

The defendant's counsel contend that the specifications of the Eibel patent require that the only force to be used in giving speed to the stock shall be the force of gravity created by the angle of down hill inclination of the wire. They say that the patentee mentions no other means of acceleration, that he must be confined to this, and that a machine which uses other factors for this purpose does not infringe. We do not understand the circuit court of appeals to go quite so far, but it does seem to give a construction requiring the force of gravity caused by the pitch of the wire to be the predominating cause of the increased speed of the stock. The factors of speed of the stock in such a machine before the factor of pitch was applied to increase it, were the head or hydraulic pressure of the stock in the flow box behind the slice, imparting movement to it as it came out on to the wire under the lifted slice, and the carrying effect of the moving wire upon the fluid stock as it fell upon the wire and proceeded gradually to form into a web as the fibres were laid and the water drained.

* It is true that defendant's expert Carter points out that in some of the machines of the prior art in which means were provided for tilting up the wire, the tilting was confined to that part of the surface length covered by the shake frame, say 18 feet, and did not extend to the first suction box, whereas Eibel's tilting involved the entire surface length of thirty feet. It would follow from this that the elevation of three inches in such machines would mean a greater angle of declination than three inches for the full surface length and that the disparity between three inches and twelve inches was not so great as the figures would lead one to think. But whatever difference this might make, the fact remains that Eibel's pitch was substantially greater than anything in the prior art.

Many calculations were made by defendant's expert Carter, based on the laws of hydraulic pressure and flow to show that under varying conditions of head and pitch and the speed of the wire, the chief factor would be head, the next the "drag" or carrying effect of the wire, and the least in degree and importance in making the velocity of the stock and the wire equal would be the pitch, and that Eibel's invention could not be present because the "drag" of the wire and its influence upon the speed of the stock must be eliminated under Eibel's specifications. We do not so understand it. As the stock descends upon the wire with the head of the flow box, it is thin and liquid, the wire at its greater speed necessarily imparts additional speed to the stock and in its unformed fluidity the added speed does not disturb or ripple the stock to the injury of the process of paper making. It is only after the stock proceeds a third or a half of the surface length of the wire that the point is reached where the overspeed of the drag becomes troublesome in the felting or formation of the web of the pulp. Before that point is reached, the "drag" may be useful in bringing the speed of the stock nearer to that of the wire without injury. The truth seems to be and this is brought out with force in the testimony of the defendant's expert witness Livermore, that while it is possible to calculate to a nicety the velocity of the free flowing liquid stock due to head and pitch, when unaffected by drainage, variation in viscosity and fluidity and the like, yet when these conditions are present, as they always are, and the other less calculable factor of the drag of the wire enters the problem, there is no means, short of actual experiment to enable one to anticipate results and it is quite impossible to apportion to each factor its real influence. This fact reflects on the question whether Eibel's discovery was invention rather than the mere obvious and simple application of known natural forces.

The defendant introduced expert evidence to show that with a head of 2¼ inches in the flow box and a speed of 585 feet to the minute in the wire, and excluding the factor of "drag" of the wire it would require an elevation of 48 inches to make up the difference in speed of the stock given by the head, and the speed of the wire at a distance 10 feet from the point of discharge on the wire. The conclusion drawn from this seems to be that as no practical machine uses 48 inches pitch, the Eibel invention has never been used or infringed. Disregarding its error in omitting necessary factors already adverted to, this reasoning seems to us to depend on too narrow a construction of the patent.

[5] In administering the patent law the court first looks into the art to find what the real merit of the alleged discovery or invention is and whether it has advanced the art substantially. If it has done so, then the court is liberal in its construction of the patent to secure to the inventor the reward he deserves. If what he has done works only a slight step forward and that which he says is a discovery is on the border line between mere mechanical change and real invention, then his patent, if sustained, will be given a narrow scope and infringement will be found only in approximate copies of the new device. It is this differing attitude of the courts toward genuine discoveries and slight improvements that reconciles the sometimes apparently conflicting instances of construing specifications and the finding of equivalents in alleged infringements. In the case before us, for the reasons we have already reviewed, we think that Eibel made a very useful discovery which has substantially advanced the art. His was not a pioneer patent, creating a new art; but a patent which is only an improvement on an old machine may be very meritorious and entitled to liberal treatment. Indeed, when one notes the crude working of machines of famous pioneer inventions and discoveries, and compares them with the modern machines and processes exemplifying the principle of the pioneer discovery, one hesitates in the division of credit between the original inventor and the improvers; and certainly finds no reason to withhold from the really meritorious improver, the application of the rule "*ut res magis valeat quam pereat*", which has been sustained in so many cases in this Court. (*Winans* v. *Drumead*, 15 Howard, 338, 341; *Corning* v. *Burden*, 15 Howard, 265, 269; *Farrill* v. *Railroad Company*, 1 Wall., 491, 510; *Rubber Co.* v. *Goodyear*, 9 Wall., 788, 795; *McLain* v. *Ortemayer*, 141 U. S., 419, 425; 57 O. G., 1129.)

Eibel was an avowed improver, not in the art of paper making generally, but upon a well-known and universally used machine. In that machine, the speed of the stock which was the subject matter of his improvement, had always been controlled by two factors, the head of the stock in the flow box, and the carrying effect of the under moving wire. He says nothing in his specifications to exclude these factors, he merely adds another factor of speed to secure the equality of speed of the stock with the wire. He says:

> For the purpose of increasing the speed of the machine to the maximum I maintain the breast roll end of the making-wire at a high elevation above the level, so that the stock travels by gravity much faster than the making-wire ordinarily runs for a certain grade of stock, and I then increase the speed of the machine to such an extent as to bring the rate of the making-wire up to the speed of the rapidly-moving stock, and as a result the capacity of the machine is largely increased.

We agree fully with Judge Hale in the district court in his comment on this:

> The process invented by him (Eibel) begins to operate after the stock has entered upon the wire. His apparent attempt was to get rid of bubbles and wrinkles, before he got to the place on the machine where the paper is formed. To do this, he allowed gravity to work with "drag" and with "head." He harnessed all the elements he could find. He brought gravity in with the other elements; and so brought the speed of the stock up to equality with that of the wire. By this means he achieved high speed and also freed the stock on the wire from waves and ripples. (267 Fed., 855.)

The circuit court of appeals questions the assumption that gravity was a new factor with Eibel, because the head of the flow box is only another application of the force of gravity. This is a mere criticism of a term which whether accurate or not is not misleading. What Eibel was dealing with in his patent as a new factor was the additional force acquired by the pitch of the wire and that he called

gravity, and Judge Hale in the passage quoted uses the word with the same meaning and without any confusion to the reader.

[6] We think, then, that the Eibel patent is to be construed to cover a Fourdrinier machine in which the pitch of the wire is used as an appreciable factor, in addition to the factors of speed theretofore known in the machine, in bringing about an approximation to the equal velocity of the stock and the wire at the point where but for such approximation the injurious disturbance and ripples of the stock would be produced.

[7] The next objection to the patent which prevailed in the circuit court of appeals is that its terms are too vague because the extent of the factor of pitch is not defined except by the terms "substantial" and "high". The figure accompanying the specification and illustrating the improvement indicates an angle of four per cent or an elevation of 12 inches, and the reference to the small elevations for drainage shown in earlier devices indicated that the patentee had in mind elevations substantial as compared with them in order to achieve his purpose of substantially increasing the speed of the stock. It was difficult for him to be more definite, due to the varying conditions of speed and stock existing in the operations of Fourdrinier machines and the necessary variation in the pitch to be used to accomplish the purpose of his invention. Indefiniteness is objectionable because the patent does not disclose to the public how the discovery, if there is one, can be made useful and how its infringement may be avoided. We do not think any such consequences are involved here. This patent and its specifications were manifested to readers who were skilled in the art of paper making and versed in the use of the Fourdrinier machine. The evidence discloses that one, so skilled, had no difficulty, when his attention was called to their importance, in fixing the place of the disturbance and ripples to be removed, or in determining what was the substantial pitch needed to equalize the speeds of the stock and wire at that place. The immediate and successful use of the pitch for this purpose by the owners of the then fastest machines and by the whole trade is convincing proof that one versed in paper making could find in Eibel's specifications all he needed to know, to avail himself of the invention. Expressions quite as indefinite as "high" and "substantial" in describing an invention or discovery in patent specifications and claims have been recognized by this Court as sufficient. In *Tilghman* v. *Proctor* (102 U. S., 707; 19 O. G., 859), the claim sustained was for "the manufacturing of fat acids and glycerine from fatty bodies by the action of water at a high temperature and pressure." (See also *Rubber Company* v. *Goodyear*, 9 Wall., 788, 794; *Mowry* v. *Whitney*, 14 Wall., 620, 629; *Lawther* v. *Hamilton*, 124 U. S., 1, 9; 42 O. G., 487; *Carnegie Steel Co.* v. *Cambria Iron Co.*, 185 U. S., 403, 436; 99 O. G., 1866; *Abecrombie & Fitch Co.* v. *Baldwin*, 245 U. S., 198, 205; 246 O. G., 567.)

[8] It is contended on behalf of the defendant that whether Barrett and Horne perceived the advantage of speeding up the stock to an equality with the wire, yet the necessary effect of their devices was to achieve that result and therefore their machine anticipated Eibel. In the first place we find no evidence that any pitch of the wire, used before Eibel, had brought about such a result as that sought by him, and in the second place if it had done so under unusual conditions, accidental results, not intended and not appreciated, do not constitute anticipation. (*Tilghman* v. *Proctor*, 102 U. S., 707, 711; 19 O. G., 859; *Pittsburgh Reduction Company* v. *Cowles Electric Co.*, 55 Fed. Rep., 301, 307; 69 O. G., 789; *Andrews* v. *Carman*, 13 Blatch., 307, 323; 9 O. G., 1011.)

[9] It is next objected that the alleged invention covers only a matter of degree in pitch which can not be the subject of a patent. The prior art showed the application of gravity by use of the pitch of the wire to the improvement of the Fourdrinier machine and Eibel, it is said, merely increased degree of pitch and gravity for the same general purpose. We think this attack upon the patent can not prevail. Eibel's high or substantial pitch was directed toward a wholly different object from that of the prior art. He was seeking thereby to remove the disturbance and ripples in the formation of the stock about ten feet from the discharge, while the slight pitches of the prior art were planned to overcome the dryness in the formed web of the stock at double the distance from the discharge. It would seem that the greater speed of the stock produced by Eibel would make difficult the joint application of the principles of Eibel and Barrett and Horne, and that the function of adjusting the drainage for the dandy roll must be carried on by some of the other methods known to the art when Eibel's pitch is used. But however this may be, the object of the one was entirely different from that of the other. Livermore, an expert witness called by the defendant, when asked the question whether the purpose of the Barrett & Horne patent had anything in common with the theory of the Eibel patent, answered:

> I should say not. It looks to me as if Barrett and Horne referred to the adjustment of inclination with one effect in mind, and that Eibel referred to like adjustment with another effect in mind. * * * In this particular case, the two effects have, so far as I can see, no special correlation to one another, and an adjustment made with one effect in mind might or might not produce a desirable effect as to the other function or phenomenon.

[10, 11] In considering this phase of the controversy, we must not lose sight of the fact that one essential part of Eibel's discovery was that the trouble causing the defective paper product under high machine speed was in the disturbance and ripples some ten feet from the discharge and that they were due to the unequal speeds of stock and wire at that point and could be removed by equalizing the speeds. The invention was not the mere use of a high or substantial pitch to remedy a known source of trouble. It was the discovery of the source not before known and the application of the remedy for which Eibel was entitled to be rewarded in his patent. Had the trouble which Eibel sought to remedy been the well-known difficulty of too great wetness or dryness of the web at the dandy roll and had he found that a higher rather than a low pitch would do that work better, a patent for this improvement might well have been attacked on the ground that he was seeking monopoly for a mere matter of degree. But that is not this case. On the other hand, if all knew that the source of the trouble Eibel was seeking to remedy was where he found it to be and also knew that increased speed of the stock would remedy it, doubtless it would not have been invention on his part to use the pitch of the wire to increase the speed of the stock when such pitch had been used before to do the same thing although for a different purpose and in a less degree. We can not agree with the circuit court of appeals that the casual connection between the unequal speeds of the stock and the wire, and the disturbance and rippling of the stock, and between the latter and the defective quality of the paper in high speeds of the machine was so obvious that perception of it did not involve discovery which will support a patent. The fact that in a decade of an eager quest for higher speeds this important chain of circumstances had escaped observation, the fact that no one had applied a remedy for the consequent trouble until Eibel, and the final fact that when he made known his discovery, all adopted his remedy, leave no doubt in our minds that what he saw and did was not obvious and did involve discovery and invention.

[12, 13] The circuit court of appeals dwells on the fact that the use of the pitch of the wire was not really the introduction of a new factor in the solution of the problem because the same result would have followed if the head of the flow box had been made greater in order to increase by gravity the speed of the stock. Doubtless this could have been done. There were difficulties, however, in such a method when Eibel's application was filed, because in the then machines the flow box was supported by an apron over the wire and the necessary addition to the weight of the stock in the flow box, in increasing the head, would have interfered with the free working of the wire. Since that time an improvement has been adopted by which the flow box does not rest on the wire and additional head can be imparted to the stock. The defendant invites attention to the fact that one or two paper makers are increasing this head and giving up the pitch, for the purpose of increasing the speed of the stock. We do not see that these circumstances in any way affect the validity of the Eibel patent. If defendant or others can do what Eibel accomplished in another way, and by means he did not include in his specifications and claims, i. e., by additional head and the abandonment of a substantial pitch, they are at liberty to do so and avoid infringement.

We come finally to the question of infringement. If the Eibel patent is to be constructed as we have construed it, there can be no doubt that the defendant uses the Eibel invention. The device which the defendant uses for tilting the wire, i. e., by shimming blocks and that for regulating and increasing the speed of the wire are plainly equivalents of the same elements in the new combination which Eibel shows in his drawings and specifications. The defendant uses a Fourdrinier machine having the breast roll end of the paper-making wire maintained at an elevation of 15 inches above the level whereby the stock is caused to travel by gravity rapidly in the direction of the movement of the wire and at a speed approximately equal to the speed of the wire substantially as described. This brings the defendant's machines within the first claim of the patent if 15 inches is a substantial elevation of the making wire, as all the witnesses concede that it is. The same conclusion must be reached as to the second claim because the defendant uses a machine—

> having the breast roll end of the paper making wire maintained at a high elevation, whereby the stock is caused to travel by gravity faster than the normal speed of the wire for a certain grade of stock and having means for increasing the speed of the machine to cause the wire to travel at substantially the same rate of speed as the rapidly moving stock, substantially as described.

The same thing is true of the third claim.

Question has been made whether these three claims are for a machine or a process. We think they are claims for a machine, i. e., for an improvement on a machine, and that the devices for such improvement, to wit, the elevation by a screw or other equivalent method, and the control of the speed of the wire, are shown by the specifications and the figures, together with a sufficient description of their operation.

The seventh and eighth claims are for the same improvement with the suction boxes changed from their usual position in the unimproved machine to make them effectively function on the pitched wire. They are machine claims and are infringed by the defendant. Their new adjustment is part of a new combination and the words substantially as described limit them to a combination including the elements included in the first three claims.

Claim No. 12 is as follows:

> 12. In a Fourdrinier machine, a downwardly-moving paper-making wire, the declination and speed of which are so regulated that the velocity of the stock down the declining wire, caused by gravity, is so related to the velocity of the wire in the same direction that waves and ripples on the stock are substantially avoided and the fibers deposited with substantial uniformity on the wire, substantially as described.

This comes nearer to being a process claim but whether it is or not the defendant infringes it.

The evidence discloses that after the suit was brought, the defendant reduced the pitch of one of its machines to six inches and the contention of defendant is that the machine ran as well and gave as good results as when its pitch was 15 inches. We are not called upon to decide whether this contention can be sustained because the reduction was after the bill was filed. It may be noted, however, that the admissions of witnesses

seem to show that this reduction was made for purposes of the suit and that immediately after the defendant won the suit in the circuit court of appeals, it restored the pitch of this machine to 15 inches, and when the decree of the circuit court of appeals proved not to be final, the wire was lowered again to a 6-inch pitch. Much evidence was taken and much discussion has followed upon the point whether a 6-inch pitch accomplishing in whole or in part what Eibel sought to do would infringe a patent for a substantial pitch. We do not find it necessary to pass definitely on the question because it is not before us on the record, though we can not prevent the natural inferences upon this point to be drawn from the conclusions we have reached.

The decree of the circuit court of appeals dismissing the bill is reversed and the decree of the district court is affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

914,678, F. Skelton, Handles for shovels, spades, and other tools; 1,240,503, same, reinforced D handles; 1,110,149, same, Tool handles, Patents sustained and held infringed; permanent injunction granted, U. S. D. C., S. D. N. Y., *F. Skelton et al.* v. *Baldwin Tool Works et al.*

1,004,505, A. V. L. Verneuil, Synthetic sapphires, suit filed Jan. 8, 1923, U. S. D. C., E. D. N. Y., Doc. 1200, *L. Heller & Son, Inc.* v. *H. A. Wolff (J. Berlett Co.)*. Consent decree for plaintiff.

1,041,023, C. A. Channell, Mop, suit filed Feb. 5, 1923, U. S. D. C., N. D. Ill., Doc. 3321, *Channell Chemical Co.* v. *Grossman Mfg. Co.*

1,044,468, H. C. Kirk, jr., Thrust bearing, suit filed Feb. 21, 1923, U. S. D. C., N. D. Ill., Doc. 3355, *Apco Mfg. Co.* v. *E. Edelmann & Co.*

1,057,694, Re. 14,101, 1,212,863, H. E. White, Method of manufacturing expanded-metal structures, suit filed Mar. 13, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 847, *The General Fireproofing Co.* v. *The Central Steel Co.*

1,110,149. (See 914,678.)

1,180,264, A. Lederer, Incandescent body for electric lamps, suit filed Jan. 15, 1923, U. S. D. C., E. D. N. Y., Doc. 1206, *Westinghouse Lamp Co.* v. *Save Electric Corp.*

1,185,394, A. E. Greene, Process of melting scrap metal; 1,297,149, same, Electric furnace, suit filed Feb. 26, 1923, U. S. D. C., W. D. Wash., Doc. E 325, *Greene Process Metal Co. et al.* v. *M. G. Tennent et al.*

1,212,863. (See 1,057,694.)

1,229,102, B. E. Lloyd, Talking doll, suit filed Jan. 13, 1923, U. S. D. C., E. D. N. Y., Doc. 1201, *B. E. Lloyd et al.* v. *T. Hutnikow.*

1,240,503. (See 914,678.)

1,297,149. (See 1,185,394.)

1,368,115. (See 1,410,371.)

1,373,933, S. L. Ames, Citrous-juice powder, suit filed Jan. 24, 1923, U. S. D. C., E. D. N. Y., Doc. 1210, *S. L. Ames* v. *Acker, Merrall & Condit Co.*

1,379,601, W. E. Andree, Pressure attachment for garment presses; 1,386,665, Waream & Braley, same, suit filed Mar. 14, 1923, U. S. D. C., N. D. N. Y., Doc. 417, *The American Laundry Machinery Co. and Others* v. *Prosperity Co., Inc.*

1,386,665. (See 1,379,601.)

1,410,371, 1,368,115, F. R. Chester, Amusement apparatus, Final decree for plaintiff Feb. 28, 1923, U. S. D. C., E. D. N. Y., *Chester-Pollard Amusement Co., Inc.* v. *H. Miyazaki.*

1,423,874, 1,431,838, Pancoast & Grotenhuis, Automobile bumper-attaching hanger; 1,424,395, H. C. Evelyn, Bumper-supporting brackets; 1,424,400, W. J. Grotenhuis, Bumper brackets, suit filed Feb. 9, 1923, U. S. D. C., N. D. Ill., Doc. 3347, *Biflex Products Co.* v. *W. M. Jones et al.*

1,424,395 (See 1,423,874.)

1,424,400. (See 1,423,874.)

1,431,838. (See 1,423,874.)

1,435,660, W. M. Rogerson, Educational appliance, suits filed Feb. 23, 1923, U. S. D. C., N. D. Ill., Doc. 3356, *Wallace Institute* v. *The Rudolph Wurlitzer Co.* Same, Doc. 3357, *Wallace Institute* v. *Boston Store of Chicago.*

Re. 14,101. (See 1,057,694.)

T. M. 134,595, T. M. 159,810, Biflex Products Co., Automobile bumpers and parts thereof; T. M. 160,138, same, Automobile bumpers, suit filed Feb. 9, 1923, U. S. D. C., N. D. Ill., Doc. 3347, *Biflex Products Co.* v. *W. M. Jones.*

T. M. 159,810. (See T. M. 134,595.)

T. M. 160,138. (See T. M. 134,595.)

ADJUDICATED PATENTS.

(U. S. C. C. A. Mich.) Johnson patent, 814,786, claims 2 and 42, and 814,848, claims 7 and 11, for talking-machine improvements, valid, but not infringed. *Victor Talking Mach. Co.* v. *Brunswick-Balke-Collender Co.*, 286 Fed. Rep., 334.

(U. S. C. C. A. Del.) Gee patent, 1,082,419, for a mechanical stoker for locomotives, not infringed. *Elvin Mechanical Stoker Co.* v. *Locomotive Stoker Co.*, 286 Fed. Rep., 309.

(U. S. C. C. A. Del.) Street patent, 1,130,443, for a mechanical stoker for locomotives, not infringed. *Elvin Mechanical Stoker Co.* v. *Locomotive Stoker Co.*, 286 Fed. Rep., 309.

(U. S. C. C. A. Del.) Fuller patent, 1,394,256, for a cash register, preliminary injunction denied. *National Cash Register Co.* v. *Remington Arms Co.*, 286 Fed. Rep., 367.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 1, 1923.

[VOL. 310. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 126,221. (CLASS 39. CLOTHING.) THE KAYNEE COMPANY, Cleveland, Ohio. Filed Dec. 18, 1919.

KAYNEE
WASHTOGS

No claim is made to the word "Washtogs" apart from the mark shown in the drawing.

Particular description of goods.—Children's Rompers and One-Piece Play Garments.

Claims use since about Aug. 1, 1914.

Ser. No. 126,222. (CLASS 39. CLOTHING.) THE KAYNEE COMPANY, Cleveland, Ohio. Filed Dec. 18, 1919.

COVERTOGS

Particular description of goods.—Overalls.

Claims use since about Jan. 1, 1918.

Ser. No. 142,047. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Resins, Coal, Coke, Artificial Fuel, Tanning Bark, Rubber, and Rubber Substitutes.

Claims use since Dec. 12, 1906.

Serial No. 142,802. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE NATIONAL TIRE & RUBBER COMPANY, East Palestine, Ohio. Filed Jan. 26, 1921.

LAGONDA

Particular description of goods.—Rubber Tires and Tubes.

Claims use since Dec. 29, 1920.

Ser. No. 147,217. (CLASS 39. CLOTHING.) THE S & S SHIRT COMPANY, Philipsburg, Pa. Filed May 4, 1921.

S&S Shirt S&S

The word "Shirt" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Work Shirts, Dress Shirts, Negligee Shirts, and Flannel Shirts.

Claims use since May 15, 1910.

Ser. No. 149,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK R. PRINA CORPORATION, New York, N. Y. Filed June 18, 1921.

U.S. GOLD

No claim is made to the letters "U. S." except in connection with the balance of the mark.

Particular description of goods.—Wheat Flour.

Claims use since 1914.

Ser. No. 150,833. (CLASS 38. PRINTS AND PUBLICATIONS.) UNIVERSAL FEATURE AND SPECIALTY COMPANY, Chicago, Ill. Filed July 22, 1921.

DOODADS

The lining on the drawing does not indicate color.
Particular description of goods.—Books Published from Time to Time and Comic Section in Daily Newspapers.
Claims use since June 1, 1921.

Ser. No. 151,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STROHMEYER & ARPE COMPANY, New York, N. Y. Filed Aug. 1, 1921.

ANITA

Particular description of goods.—Olive Oil and Salad Oil.
Claims use since September, 1908.

Ser. No. 151,987. (CLASS 39. CLOTHING.) WALTER A. GOLDSMITH, Cleveland, Ohio. Filed Aug. 20, 1921.



Particular description of goods.—Bloomers.
Claims use since Aug. 11, 1921.

Ser. No. 152,048. (CLASS 32. FURNITURE AND UPHOLSTERY.) UNIT CONSTRUCTION COMPANY, Philadelphia, Pa. Filed Aug. 22, 1921.



Particular description of goods.—Portable Sectional Partitions of Wood and Glass Which are Adapted for All Partition Purposes (Including Partitions for Offices and Stores or Rooms of Other Character, Display Booths, the Construction of Rooms, Telephone Booths, Etc.); Sectional Ceilings or Roofs for Such Structures as Previously Mentioned; Store Fixtures Comprising Counters, Tables, Show Cases, Display Cases, Shelf Casing, Stock Cases, Wall Racks, Information Desks, Benches, and Cashiers' Cages; Talking-Machine-Record Counters, Talking-Machine-Record Racks, and Stands for Talking Machines; Fixtures for Window Display Comprising Window Platforms and Portable Window Screens for Use in Window Display; and Printers' Furniture Comprising Imposing and Make-Up Tables, Type Cabinets, Bookbinders' Cabinets, Electrotype Cabinets, Galley Cabinets, Ink and Roller Cabinets, Job-Press Cabinets, Letter-Board Cabinets, Linotype Cabinets, Monotype Cabinets, Units for Type Cabinets, Proof-Readers' Desks, and Letter Boards.
Claims use since Apr. 1, 1913.

Ser. No. 152,049. (CLASS 32. FURNITURE AND UPHOLSTERY.) UNIT CONSTRUCTION COMPANY, Philadelphia, Pa. Filed Aug. 22, 1921.

UNICO

Particular description of goods.—Portable Sectional Partitions of Wood and Glass Which are Adapted for All Partition Purposes (Including Partitions for Offices and Stores or Rooms of Other Character, Display Booths, the Construction of Rooms, Telephone Booths, Etc.); Sectional Ceilings or Roofs for Such Structures as Previously Mentioned; Store Fixtures Comprising Counters, Tables, Show Cases, Display Cases, Shelf Casing, Stock Cases, Wall Racks, Information Desks, Benches, and Cashiers' Cages; Talking-Machine-Record Counters, Talking-Machine-Record Racks, and Stands for Talking Machines, Fixtures for Window Display Comprising Window Platforms and Portable Window Screens for Use in Window Display; and Printers' Furniture Comprising Imposing and Make-Up Tables, Type Cabinets, Bookbinders' Cabinets, Electrotype Cabinets, Galley Cabinets, Ink and Roller Cabinets, Job Press Cabinets, Letter Board Cabinets, Linotype Cabinets, Monotype Cabinets, Units for Type Cabinets, Proof-Readers' Desks, and Letter Boards.
Claims use since Apr. 1, 1913.

Ser. No. 152,124. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Aug. 24, 1921.

Roger Williams

Trade-mark is the name of an historical character now deceased.
Particular description of goods.—Men's and Boys' Suits and Overcoats.
Claims use since on or about Aug. 15, 1921.

Ser. No. 154,540. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WILTON-PLANTZ CANDY COMPANY, Valdosta, Ga. Filed Oct. 24, 1921.



The undersigned petitioners further disclaim the words "Nut-Bar" from the other features of the trade-mark.
Particular description of goods.—Manufactured Candy with Nuts into a "Nut Bar."
Claims use since January, 1921.

Ser. No. 154,793. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DWINELL-WRIGHT COMPANY, Boston, Mass. Filed Oct. 31, 1921.

"TIP-TOP"

Particular description of goods.—Coffee.
Claims use since November, 1898.

Ser. No. 155,841. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VITA RICE PRODUCTS CO., Willows, Glenn County, Calif. Filed Nov. 23, 1921.

VITA RICE CREAM



No claim is made to the words "Rice Cream" apart from the mark shown in the drawing.
Particular description of goods.—Preparation Made from Rice in Powdered and Liquid Form.
Claims use since Oct. 3, 1921.

Ser. No. 156,997. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OTTOMAR HEINSIUS V. MAYENBURG, doing business as Laboratorium Leo, Dresden, Germany. Filed Dec. 21, 1921.

Leosira

Particular description of goods.—Shaving Soap in Cake, Stick, and Powdered Form.
Claims use since November, 1919.

Ser. No. 157,002. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BURTON PRESTON & CO., Mansfield, Ohio. Filed Dec. 21, 1921.

ROB ROY RED

No claim is made to the word "Red" apart from the mark shown in the drawing.
Particular description of goods.—Monuments.
Claims use since Nov. 8, 1921.

Ser. No. 157,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDGAR CHEMICAL COMPANY, Cleveland, Ohio. Filed Jan. 3, 1922.

EXTRACTOLIN

Particular description of goods.—Liniments for the Treatment of Neuralgic Pains; Rheumatism Pains in Side, Chest, or Back; Muscle Strains, Sore Throat, Bronchial Affections, and Similar Uses.
Claims use since about July 1, 1916.

Ser. No. 157,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAURICE MOSTOVOY, doing business as Sun-Set Raisin Co., Philadelphia, Pa. Filed Jan. 11, 1922.



Particular description of goods.—Raisins.
Claims use since Oct. 15, 1921.

Ser. No. 157,827. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN S. BOYD COMPANY INC., Williamstown, Mass. Filed Jan. 12, 1922.

CHEVELLE

Particular description of goods.—Cotton Pile Cloth in the Piece.
Claims use since June 1, 1914.

Ser. No. 157,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR H. SHAW, Wellesley, Mass. Filed Jan. 12, 1922.

SABRINA

Particular description of goods.—Live Poultry, Eggs for Hatching, and Eggs for Food.
Claims use since Jan. 2, 1915.

Ser. No. 158,583. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SOCIÉTÉ P. & A. PICARD, Paris, France. Filed Jan. 28, 1922.

A.P.C.

Particular description of goods.—Cremorne Bolts, Espagnolette Bolts; Locks and Bolts Made of Brass, Hand Chased and Gilt, Designs of All Periods; Steel Mortise and Rim Locks, Locks with Cylinder to be Master Keyed.
Claims use since Apr. 22, 1910.

Ser. No. 158,595. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE BIRD-ARCHER COMPANY, New York, N. Y. Filed Jan. 30, 1922.

BAC

Particular description of goods.—Brass Cleaners and Iron Cleaners.
Claims use since Sept. 1, 1919.

Ser. No. 159,509. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT A. JULIN, Chicago, Ill. Filed Feb. 15, 1922.



Trade-mark with the exception of the words "The Hair Net of Superior Quality," which the applicant hereby disclaims as not being part of the trade-mark shown in the accompanying drawing.
Particular description of goods.—Hair Nets.
Claims use since Nov. 15, 1921.

Ser. No. 159,522. (CLASS 39. CLOTHING.) NATIONAL CAP MFG. COMPANY, Louisville, Ky. Filed Feb. 18, 1922.



No claim is made to the word "Cap" apart from the mark as shown.
Particular description of goods.—Caps for Men, Boys, and Children.
Claims use since 1911.

Ser. No. 159,538. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOUTHERN SAW WORKS, Atlanta, Ga. Filed Feb. 18, 1922. Under ten-year proviso.



Particular description of goods.—Saws.
Claims use since December, 1890.

Ser. No. 159,539. (CLASS 12. CONSTRUCTION MATERIALS.) ST. ANONYME DU FIBROCIMENT ET DES REVETEMENTS ELO, Poissy, France. Filed Feb. 18, 1922.



The trade-mark consists of the word "Elo" written in a distinctive manner.
Particular description of goods.—Building Materials Composed of a Compound of Fiber and Cement.
Claims use since Oct. 9, 1913.

Ser. No. 159,700. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILL H. GUNCKEL, Toledo, Ohio. Filed Feb. 23, 1922.

RAZINOLA

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since about Sept. 15, 1921.

Ser. No. 159,720. (CLASS 39. CLOTHING.) PARKER-BRIDGET COMPANY, Washington, D. C. Filed Feb. 23, 1922.

Warwick Lodge
Sport Suit



No claim is made to the words "Sport Suit" except in the association shown.
Particular description of goods.—Ladies' Sport Suits and Coats.
Claims use since Apr. 1, 1920.

Ser. No. 159,763. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NATIONAL BAKERIES, INC., Tampa, Fla. Filed Feb. 24, 1922.

TAMPAMAID



TAMPAMAID

No claim is made to the words "Cleanliness," "Quality," "Courtesy," "Bread," "Made By," and "Not Less Than 16 Oz." apart from the mark as shown in the drawing.
Particular description of goods.—Bread.
Claims use since Nov. 10, 1921.

Ser. No. 160,178. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES, New York, N. Y. Filed Mar. 4, 1922.

BURTO

Particular description of goods.—Dextrinous Sirup Used in Making Beverages.
Claims use since Sept. 27, 1921.

Ser. No. 160,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IOWA PACKING CO., Des Moines, Iowa. Filed Mar. 7, 1922.

FULLER'S
OLD HOMESTEAD



Particular description of goods.—Smoked Meats, Dried Beef, Sausage, Ham, Bacon, Lard, and Butter.
Claims use since Feb. 1, 1912.

Ser. No. 160,390. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD W. BOUCK, Chicago Ill. Filed Mar. 9, 1922.

RED HEAD

The shading on the drawing indicates that the letters are printed in red.
Particular description of goods.—Poultice Plasters for Pimples and Boils.
Claims use since July, 1921.

Ser. No. 161,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. S. WILLIAMS, doing business as Williams Brothers & Company, Wilkes-Barre, Pa. Filed Mar. 22, 1922.

WILCO

Particular description of goods.—Canned Vegetables, Canned Milk, Catchup, Flavoring Extracts for Foods, and Mincemeat.
Claims use since 1914.

Ser. No. 161,250. (CLASS 37. PAPER AND STATIONERY.) THE ROBERT GRIFFIN COMPANY, Jersey City, N. J. Filed Mar. 25, 1922.

RADIUM BLEND

Particular description of goods.—Wall Paper.
Claims use since on or about May, 1921.

Ser. No. 161,315. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HOLDING COMMITTEE FOR EDUCATIONAL AND PHILANTHROPIC WORK, St. Louis, Mo. Filed Mar. 27, 1922.

"HOBO" NEWS

Particular description of goods.—Monthly Magazine.
Claims use since on or about Apr. 1, 1915.

Ser. No. 161,373. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.



No claim is made herein to the words "Brand," "Registered" and "Canterbury, N. Z." apart from the mark shown.
Particular description of goods.—Wool.
Claims use since July 30, 1896.

Ser. No. 161,378. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.



No claim is made to the exclusive use of the words "Brand" and "Registered" apart from the mark shown.
Particular description of goods.—Wool.
Claims use since July 30, 1896.

Ser. No. 161,681. (CLASS 38. PRINTS AND PUBLICATIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 3, 1922.

Fashions OF THE HOUR

Trade-mark "Fashions of the Hour."
Particular description of goods.—Bimonthly Magazines.
Claims use since on or about Oct. 1, 1914.

Ser. No. 162,048. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PARHAM-LINDSAY GROCERY CO., Chattanooga, Tenn. Filed Apr. 10, 1922.

ROLY REDY

Particular description of goods.—Wheat Flour.
Claims use since June, 1921.

Ser. No. 162,179. (CLASS 37. PAPER AND STATIONERY.) KOVACS AND MESZAROS, Denbo, Pa. Filed Apr. 12, 1922.



Particular description of goods.—Envelopes.
Claims use since May 15, 1922.

Ser. No. 162,556. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) KORTENBACH & RAUH, Weyer, Germany. Filed Apr. 19, 1922.

PRIMUS

Particular description of goods.—Umbrellas.
Claims use since January, 1901.

Ser. No. 162,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. R. S. CANDY STORES, INC., doing business as United Happiness Candy Stores, Long Island City, N. Y. Filed Apr. 19, 1922.

COLLINWOOD

Particular description of goods.—Candy.
Claims use since Nov. 1, 1921.

Ser. No. 162,918. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES L. CARESKEY, Louisville, Ky. Filed Apr. 26, 1922.

HUMAN ELEMENT
WITH COMMON SENSE

Particular description of goods.—Monthly Magazine.
Claims use since July 13, 1921.

Ser. No. 164,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. W. DENIO MILLING COMPANY, Sheridan, Wyo. Filed May 18, 1922.

PRIDE OF SHERIDAN

Particular description of goods.—Wheat Flour.
Claims use since 1912.

Ser. No. 164,185. (CLASS 39. CLOTHING.) THE OBERNDORFER COMPANY, Milwaukee, Wis. Filed May 20, 1922.

Protectursuit

Particular description of goods.—Rubber Aprons.
Claims use since Apr. 15, 1922.

Ser. No. 164,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEVERIN S. LEE, doing business as S. S. Lee & Co., Spokane, Wash. Filed May 29, 1922.



The word "Chocolated" is hereby disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Chocolate-Coated Raisins.
Claims use since May 1, 1922.

Ser. No. 164,667. (CLASS 39. CLOTHING.) SAMUEL QUINT, doing business as Samuel Quint Company, New York, N. Y. Filed May 29, 1922.

Knickerknit

The word "Knit" being disclaimed apart from the word "Knicker."
Particular description of goods.—Cotton and Woolen Hosiery and Underwear of Knitted Material for Men, Women, and Children.
Claims use since Jan. 4, 1921.

Ser. No. 164,757. (CLASS 39. CLOTHING.) RUDOLPH F. GRAIGEN, New York, N. Y. Filed June 1, 1922.

SHEIK

Particular description of goods.—Bathing Caps.
Claims use since May 22, 1922.

Ser. No. 164,822. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE NOURSE COMPANY, INC., New York, N. Y. Filed June 2, 1922.

SOMETHING TO DO

Particular description of goods.—Kindergarten Materials—Namely, Paper-Weaving Outfits, Doll-Dressing Outfits, Cut-Out Outfits, Tracing Outfits, Plaything Making Outfits, Furniture-Building Outfits, Sewing Outfits, Building Books, Put-Me-Together Books, Puzzle Books, Weaving Outfits, Paper Toys, Toy Tableaux, Cardboard Constructing Outfits.
Claims use since about May 4, 1915.

Ser. No. 165,053. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE ANSONIA O & C Co., Ansonia, Conn. Filed June 6, 1922.

ANALOID

Particular description of goods.—Clasps for Arm Bands.
Claims use since Mar. 10, 1922.

Ser. No. 165,382. (CLASS 39. CLOTHING.) THE JEAN GARMENT COMPANY, Chicago, Ill. Filed June 12, 1922.

Jean

Particular description of goods.—Lingerie, Women's and Children's Gymnasium Bloomers and Underwear Made of Cotton and Silk Fabrics—Namely, Bloomers, Petticoats, and Step-Ins.
Claims use since January, 1921.

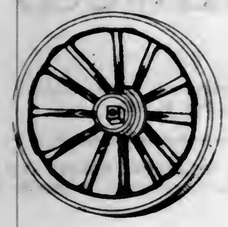
Ser. No. 165,521. (CLASS 39. CLOTHING.) BUSSON KNITTING COMPANY, Rockford, Ill. Filed June 15, 1922.

VEE POINT

Trade mark consists of the words "Vee Point."
Particular description of goods.—Hosiery.
Claims use since March, 1921.

Ser. No. 165,871. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL HECHT, doing business as D. Hecht & Co., San Francisco, Calif. Filed June 22, 1922.

LA RUEDA



Particular description of goods.—Wheat Flour.
Claims use since Dec. 30, 1921.

Ser. No. 165,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS-BOYCE DIRECT FEED COMPANY, Attica, N. Y. Filed June 22, 1922.

Fair Play

Particular description of goods.—Poultry Feed, Scratch Feed, Chicken Feed, Hog Feed, Dairy Feed, Horse Feed, Calf Meal, Egg Mash, Chop Feed, and Growing Mash.
Claims use since Oct. 1, 1920.

Ser. No. 166,242. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & Co., Matawan, N. J. Filed June 29, 1922.

SPECIALIME

SPECIALIME

Particular description of goods.—Lime Polishing Composition Used in the Buffing and Polishing Trade to Produce a Bright Luster on Nickel, Copper, Hard Rubber, and Materials of Similar Character.
Claims use since May 1, 1901.

Ser. No. 166,420. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading, Pa. Filed July 1, 1922.

BRASICHEMISE

Particular description of goods.—Clothing—viz, a Garment Composed of a Combination Brassière and Chemise.
Claims use since Mar. 16, 1922.

Ser. No. 166,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAATSCHAPPIJ TOT EXPLOITATIE VAN RADEMAKER'S KONINKLIJKE CACAO EN CHOCOLATEFABRIEKEN, The Hague, Netherlands. Filed July 6, 1922.

HAGA

The drawing consists of the word "Haga."
Particular description of goods.—Chocolate Candy.
Claims use since 1914.

Ser. No. 167,134. (CLASS 39. CLOTHING.) KUSHNER & GILLMAN, INC., New York, N. Y. Filed July 20, 1922.



No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Outer Wear for Men's and Young Men's Clothing Consisting of Coats and Suits.
Claims use since July 1, 1922.

Ser. No. 167,210. (CLASS 31. FILTERS AND REFRIGERATORS.) THE TRIUMPH ELECTRIC CO., doing business as The Triumph Ice Machine Co., Oakley, Cincinnati, Ohio. Filed July 21, 1922.

TRIUMPH

Particular description of goods.—Ice-Making and Refrigerating Machinery and the Several Parts Thereof—Namely: Ice Plants, Refrigerating Plants, Ammonia Compressors, Ammonia Condensers, Oil Interceptors, Ammonia Receivers, Ammonia Fittings, Shell Brine Coolers, Brine Agitators, Double-Pipe Brine Coolers, Ice Tanks, Brine Tanks, Air Valves, Raw-Water Ice-Making System, Ammonia Compressor Valves, Ammonia Geared Stuffing Boxes, Ammonia Purifiers, Direct-Expansion Piping, and Brine Piping.
Claims use since 1893.

Ser. No. 167,421. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL W. PETERSEN, Chicago, Ill. Filed July 26, 1922.

KEEN KOOLED

Particular description of goods.—Refrigerated Comestibles—Namely, Frozen Fish.
Claims use since Mar. 11, 1922.

Ser. No. 167,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRIEND BROTHERS, Melrose, Mass. Filed July 28, 1922.

FRIEND'S



Particular description of goods.—Bread, Cake, Pies, Canned Puddings, Canned Mincemeat, Canned Brownbread, Canned Baked Beans, Canned Salad Dressing, Canned Corn and Other Vegetables, Canned Cranberries, Blueberries and Other Berries.
Claims use since October, 1912.

Ser. No. 167,542. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE L. D. WALLER SEED CO., Guadalupe, Calif. Filed July 28, 1922.



Applicant hereby disclaims the sole use and ownership in and to the words "Purity," "Vitality," and "Seeds" apart from the said trade-mark as used.
Particular description of goods.—Garden and Flower Seeds.
Claims use since Feb. 8, 1922.

Ser. No. 167,595. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BLACKBURN PRODUCTS CO., Dayton, Ohio. Filed July 31, 1922.

MENTHO-LAXENE

Particular description of goods.—Medicinal Compound for the Treatment of Coughs and for a Salve for Use in Treatment of Congestion and Inflammation of the Respiratory Organs, Skin, Tissues, Muscles, and Joints.
Claims use since February, 1910.

Ser. No. 167,851. (CLASS 39. CLOTHING.) STERN CLOTHING CO., New York, N. Y. Filed Aug. 5, 1922.



No claim is made to the words "Superior System" apart from the mark shown on the drawing.
Particular description of goods.—Men's and Young Men's Suits and Topcoats.
Claims use since July 1, 1922.

Ser. No. 167,867. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARISTIDE DE VITO, doing business as Washington Pastry Co., San Francisco, Calif. Filed Aug. 7, 1922.



No claim is made for the word "Torrone" and "Superfine" apart from the mark shown.
Particular description of goods.—Honey and Nut Confections.
Claims use since Jan. 1, 1920.

Ser. No. 168,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE STURGES COMPANY, Meridian, Miss. Filed Aug. 10, 1922.

PULL-EASY

Trade-mark consists of the words "Pull-Easy."
Particular description of goods.—Horse and Mule Feed.
Claims use since about July, 1918.

Ser. No. 168,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ILLINOIS MEDICINE CO., Chicago, Ill. Filed Aug. 16, 1922.

T. A. D.

Particular description of goods.—Cathartic Medical Compound.
Claims use since Feb. 1, 1922.

Ser. No. 168,342. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THOMAS C. WASHINGTON, Chevy Chase, Washington, D. C. Filed Aug. 16, 1922.

WIRELESS

The lines on the drawing are for red.
Particular description of goods.—Puzzles.
Claims use since June 1, 1922.

Ser. No. 168,572. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed Aug. 22, 1922.



Particular description of goods.—Men's and Boys' Work Shirts, Dress Shirts, Sport Shirts, Textile Underwear, Play Suits, Boys' Waists and Blouses.
Claims use since Apr. 18, 1922.

Ser. No. 168,614. (CLASS 39. CLOTHING.) THE HOUSE OF BYER, Malden, Mass. Filed Aug. 23, 1922.



No claim is made to "Baby Stockings" in so far as used in a descriptive sense and to the representation of a stocking apart from the mark shown.
Particular description of goods.—Waists and Hosiery.
Claims use since May, 1922.

Ser. No. 168,690. (CLASS 39. CLOTHING.) PLAYBOY WEARABLES, INC., New York, N. Y. Filed Aug. 25, 1922.

PLAYBOY

Particular description of goods.—Boys' Outer Suits, Negligee Shirts, and Boys' Knitted and Textile Underwear.
Claims use since July 5, 1922.

Ser. No. 168,743. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AGGELER & MUSSER SEED CO., Los Angeles, Calif. Filed Aug. 28, 1922.

A&M
reliable
SEEDS

We make no claim to the exclusive use of the words "Reliable" and "Seeds" apart from the mark as used.
Particular description of goods.—Field, Garden, and Farm Seeds.
Claims use since August, 1920.

Ser. No. 168,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE MITCHELL KNIGHT, Elfers, Fla. Filed Aug. 29, 1922.

ELF

Particular description of goods.—Oranges, Grapefruit, and Citrous Fruit in Their Natural State.
Claims use since June, 1922.

Ser. No. 169,308. (CLASS 39. CLOTHING.) KAUFMAN-ROHRLICH KNITTING MILLS, INC., New York, N. Y. Filed Sept. 11, 1922.

VENIDA

Particular description of goods.—Sweaters and Scarfs.
Claims use since Aug. 15, 1922.

Ser. No. 169,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIUS MARCUS COMPANY, Chicago, Ill. Filed Sept. 11, 1922.



The word "Fruits" does not form a part of the mark sought to be registered apart from the mark shown in the drawing.
Particular description of goods.—Food-Flavoring Extracts for Confectionery, Cakes, Ice Cream, Cake Toppings, Jellies, and Desserts.
Claims use since June 8, 1922.

Ser. No. 169,339. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GILLES VALIQUETTE, Montreal, Quebec, Canada. Filed Sept. 11, 1922.

KLAWGRIP

Particular description of goods.—Rubber Treads.
Claims use since Mar. 1, 1922.

Ser. No. 169,455. (CLASS 39. CLOTHING.) MINTZ & FRIEDMAN, New York, N. Y. Filed Sept. 14, 1922.



No claim is made to the words "N. Y., Lot, Size, Price" apart from the mark shown on the drawing.
Particular description of goods.—Men's and Young Men's Suits and Topcoats.
Claims use since Aug. 1, 1922.

Ser. No. 169,457. (CLASS 39. CLOTHING.) J. PHILIP ROSENBLOOM CO. INC., New York, N. Y. Filed Sept. 14, 1922.

"PREP"

Particular description of goods.—Young Ladies' Dresses.
Claims use since July 15, 1922.

Ser. No. 169,519. (CLASS 38. PRINTS AND PUBLICATIONS.) RICHARD HOWLAND RANGER, New York, N. Y. Filed Sept. 15, 1922.

KING ELECTRON

Particular description of goods.—Departments or Sections of and Articles in Magazines and the Like.
Claims use since about Aug. 14, 1922.

Ser. No. 169,551. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KING CANDY CO., Fort Worth, Tex. Filed Sept. 16, 1922.



No claim is made to the words "King's" and "Candies" apart from the mark as shown.
Particular description of goods.—Candies.
Claims use since 1907.

Ser. No. 169,619. (CLASS 39. CLOTHING.) CALIFORNIA UNDERWEAR AND HOSIERY MILLS, doing business as California Underwear Mills, Los Angeles, Calif. Filed Sept. 18, 1922.

Tru-Size

Particular description of goods.—Ladies' Knit Underwear.
Claims use since April, 1916.

Ser. No. 169,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDAHO EVAPORATING CO., Meridian, Idaho. Filed Sept. 21, 1922.

ARROW ROCK

Particular description of goods.—Fresh Deciduous Fruits and Fresh Vegetables.
Claims use since Sept. 7, 1922.

Ser. No. 169,765. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOHNS-MANVILLE, INCORPORATED, New York, N. Y. Filed Sept. 21, 1922.

ROOFINSUL

Particular description of goods.—Heat-Insulating Felt for Use in Making Built-Up Roofing.
Claims use since July 26, 1922.

Ser. No. 169,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. M. NEWHALL & CO., San Francisco, Calif. Filed Sept. 21, 1922.

FIRELIGHT

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since July 26, 1922.

Ser. No. 169,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. W. NOGGLE, doing business as The S. W. Noggle Company, Kansas City, Mo. Filed Sept. 21, 1922.

NU-GA-NUT

Particular description of goods.—Cake and Pastry Mixture.
Claims use since Aug. 5, 1922.

Ser. No. 169,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. PERCEVAL, New York, N. Y. Filed Sept. 22, 1922.



Particular description of goods.—Lard, Vinegar, Olives, Pickles, Sauerkraut, Capers, Chili Sauce, Olive Oil, Mincemeat, Turtle Soup, Turtle Meat, Horse-Radish, Mustard, Cheese, Caviar, Pickled Pigs' Feet, Tomato Catchup, and Scrapple.
Claims use since November, 1882.

Ser. No. 169,849. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEWART MILK PROD. CO. INC., Dewart, Pa. Filed Sept. 23, 1922.



Particular description of goods.—Ice Cream, Sweetened Condensed Milk, Plain Condensed Milk, Ice-Cream Mixes, Homogenized Cream, Pasteurized Cream and Milk.
Claims use since about June 1, 1922.

Ser. No. 169,891. (CLASS 39. CLOTHING.) L. H. CLARK MFG. CO. INC., Brooklyn, N. Y. Filed Sept. 25, 1922.

SUN-DOWNE

Particular description of goods.—Nightgowns.
Claims use since July 15, 1922.

Ser. No. 169,936. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES E. STAVROS, West Orange, N. J. Filed Sept. 25, 1922.



HERMES

Particular description of goods.—Ointment for Rheumatism.
Claims use since January, 1922.

Ser. No. 169,987. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEO SIMON, doing business as Natchez Baking Company, Natchez, Miss. Filed Sept. 27, 1922.



No claim is made to the phrase "It sho am good" apart from the mark as shown.
Particular description of goods.—Fruit Cake.
Claims use since Jan. 1, 1919.

Ser. No. 170,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUP VALLEY HATCHERY, St. Paul and Cushing, Nebr. Filed Sept. 30, 1922.



Particular description of goods.—Live Chickens.
Claims use since Mar. 1, 1919.

Ser. No. 170,186. (CLASS 39. CLOTHING.) HALPERN & KALB. INC., New York, N. Y. Filed Oct. 2, 1922.

TRIOKNIT

Without waiving any common-law rights and for the purpose of this registration only applicant hereby disclaims exclusive right to the use of the word "Knit" apart from the mark shown on the drawing.
Particular description of goods.—Knitted Outer Garments—to wit, Sweaters, Hats, Caps, Coats, Hosiery, Scarfs, Mufflers, Capes, Gloves, and Bathing Suits for Men, Women, and Children, and Coats, Dresses, and Skirts for Women.
Claims use since Aug. 1, 1922.

Ser. No. 170,474. (CLASS 15. OILS AND GREASES.) COLUMBIA OIL COMPANY, INC., St. Louis, Mo. Filed Oct. 9, 1922.



The trade-mark is printed in red, as shown.
Particular description of goods.—Lubricating Oils.
Claims use since about Jan. 1, 1914.

Ser. No. 170,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Oct. 11, 1922.

AUNT ABBY'S KISSES

Particular description of goods.—Candy.
Claims use since 1903.

Ser. No. 170,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY CONNIFF, doing business as Angeles Packing Company, Seattle, Wash. Filed Oct. 11, 1922.

SAN WAN

Particular description of goods.—Canned Salmon.
Claims use since July, 1920.

Ser. No. 170,739. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY N. BRAWNER, JR., doing business as Chestnut Farms Dairy, Washington, D. C. Filed Oct. 14, 1922.



Particular description of goods.—Raw and Pasteurized Milk, Butter, Eggs, and Cheese.
Claims use since Dec. 15, 1921.

Ser. No. 170,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER B. BLACK, Hoopeston, Ill. Filed Oct. 16, 1922.

BLUE BIRD



BRANDS

The word "Brands" is disclaimed apart from the mark other than when combined therewith as shown.
Particular description of goods.—Poultry Foods.
Claims use since Aug. 15, 1922.

Ser. No. 170,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES A. FRANKE, Little Rock, Ark. Filed Oct. 16, 1922.

HOT SHOP

Particular description of goods.—Breads, Cakes, and Pastries.
Claims use since Sept. 10, 1919.

Ser. No. 170,831. (CLASS 38. PRINTS AND PUBLICATIONS.) WALLACE NUTTING, INCORPORATED, Ashland, Mass. Filed Oct. 17, 1922.

Wallace Nutting

The mark constitutes the facsimile signature of Mr. Wallace Nutting.
Particular description of goods.—Colored Pictures or Plot Tinotypes.
Claims use since 1907.

Ser. No. 170,850. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILSON-IMPERIAL COMPANY, Newark, N. J. Filed Oct. 17, 1922.

"REMOVERINE"

Particular description of goods.—Liquid for Cleaning Fabrics.
Claims use since March, 1915.

Ser. No. 170,880. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHN E. GLEASON, Asbury Park, N. J. Filed Oct. 18, 1922.

BAFFO

The trade-mark is a fanciful change of the word "Baffle" to the word "Baffo."
Particular description of goods.—Gaskets for Internal-Combustion Engines the Specific Characteristics of Which Gasket Consist of a Vertical Wall Projecting from the Horizontal Plane of a Gasoline-Engine Gasket, so as to form a Baffle Plate to Protect the Spark Plug of a Gasoline Engine from Being Fouled or Carbonized by Cylinder Oil.
Claims use since May 1, 1922.

Ser. No. 170,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OWENSBORO MILLING CO., Owensboro, Ky. Filed Oct. 18, 1922.



Particular description of goods.—Hen Scratch, Chick Scratch, Laying Mash, Dairy Feed, and Horse Feed.
Claims use since 1913.

Ser. No. 170,954. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE REEDER-STAGE CHEMICAL COMPANY, Saginaw, Mich. Filed Oct. 19, 1922.



Particular description of goods.—Cleaning Compound in Paste Form for Removing Dirt and Grease from the Skin or from Household Articles by Emulsifying the Dirt Thereon.
Claims use since Sept. 8, 1922.

Ser. No. 170,968. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN T. CASEY, doing business as United States Juvenile Vehicle Co., Philadelphia, Pa. Filed Oct. 20, 1922.

WEE-WEE

Particular description of goods.—Wheeled Toys, More Particularly Walking Velocipedes.
Claims use since on or about Apr. 1, 1921.

Ser. No. 171,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Oct. 23, 1922.



No claim is made to the exclusive representation of a cooky as illustrated apart from the mark as shown.
Particular description of goods.—Cracker Products and Dutch-Style Cookies.
Claims use since June 3, 1922.

Ser. No. 171,128. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IDA STARTER LIMITED, London, England. Filed Oct. 24, 1922.



The word "Starter" is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Compressed-Air Self-Starters for Internal-Combustion Engines.
Claims use since Dec. 12, 1921.

Ser. No. 171,181. (CLASS 12. CONSTRUCTION MATERIALS.) MURDOCK VULCANIZING CO., Montrose, Colo. Filed Oct. 25, 1922.

Murdock's "Plazmat" Vulcanizing Pad

The words "Murdock's Vulcanizing Pad" not being claimed apart from the other features of the mark.
Particular description of goods.—Plaster in Powdered Form for Use in Forming a Vulcanizing Pad.
Claims use since Sept. 26, 1922.

Ser. No. 171,203. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CONTINENTAL CAR COMPANY OF AMERICA, Louisville, Ky. Filed Oct. 26, 1922.

CONTINENTAL

Particular description of goods.—Automobile and Truck Bodies, Cabs; Dump, Mine, Quarry, and Industrial Cars; and Motor Busses.
Claims use since 1906.

Ser. No. 171,228. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER-CALDAN COMPANY, Minneapolis, Minn. Filed Oct. 26, 1922.

CHO-NUT

Particular description of goods.—Chocolate-Coated Doughnut.
Claims use since Oct. 16, 1922.

Ser. No. 171,281. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Oct. 27, 1922.

IRON TRADE REVIEW

Particular description of goods.—Magazine Published Weekly.
Claims use since Oct. 5, 1922.

Ser. No. 171,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANSAS CITY MACARONI & IMPORTING CO., Kansas City, Mo. Filed Oct. 28, 1922.

Eatmor

Particular description of goods.—Macaroni, Spaghetti, Ready-Cut Macaroni, Ready-Cut Spaghetti, Macaroni Shells, Vermicelli, Egg Noodles, Macaroni Soup, and Alimentary Pastes.
Claims use since Mar. 15, 1921.

Ser. No. 171,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CONE AND PRETZEL COMPANY, doing business as Continental Packing Corporation, Philadelphia, Pa. Filed Oct. 31, 1922.

BUFF AND BLUE BRAND



No claim is made to the use of the word "Brand."
Particular description of goods.—Canned Peaches, Canned Tomatoes, and Canned Sweet Potatoes.
Claims use since July 22, 1922.

Ser. No. 171,398. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CONE AND PRETZEL COMPANY, doing business as Continental Packing Corporation, Philadelphia, Pa. Filed Oct. 31, 1922.

INTER-OCEAN BRAND



No claim is made to the use of the word "Brand."
Particular description of goods.—Canned Beans, Canned Tomatoes, Canned Sweet Potatoes, Canned Peaches, Chili Sauce Put Up in Containers, and Catchup Put Up in Containers.
Claims use since Aug. 26, 1922.

Ser. No. 171,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Oct. 31, 1922.

DOUBLE-XX-MILK

Applicant disclaims any exclusive right to the word "Milk" apart from the mark shown on the drawing.
Particular description of goods.—Bread.
Claims use since Oct. 18, 1922.

Ser. No. 171,456. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES M. GHRISKEY'S SONS, Philadelphia, Pa. Filed Nov. 1, 1922.

STARLING BRAND · GHRISKEY PHILA.

The words "Brand" and "Phila." not being claimed apart from the other features of the mark shown.
Particular description of goods.—Tennis-Tape Reels, Baseballs, Baseball Gloves, Baseball Mitts, Baseball Masks, Baseball Bats, Footballs, Head Harness, Shoulder Pads, Knee and Elbow Pads, Soccer Balls, Tennis Balls, Tennis Rackets, Tennis Nets, Tennis-Racket Presses, Tennis-Racket Covers, Golf Balls; Golf Clubs, Both Wood and Iron; Golf Bags, Striking Bags, Boxing Gloves, Striking-Bag Platforms, Volley Balls, Playground Balls, Medicine Balls, Health Balls, and Indoor Baseballs.
Claims use since Oct. 26, 1922.

Ser. No. 171,479. (CLASS 16. OILS AND GREASES.) THE WESTERN RESERVE OIL COMPANY, Cleveland, Ohio. Filed Nov. 1, 1922.

TROJAN

Particular description of goods.—Kerosene, Gasoline, Lubricating Oils, and Greases.
Claims use since Sept. 19, 1920.

Ser. No. 171,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Nov. 2, 1922.



No claim is made to the exclusive use of the words "Gen'l. Offices, New York, U. S. A.," apart from the mark shown in the drawing, the color golden brown on the body and the color dark brown in the design of the label being claimed as a feature of the mark.
Particular description of goods.—Edible Corn Oil.
Claims use since about May, 1915.

Ser. No. 171,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EVANSVILLE PACKING COMPANY, Evansville, Ind. Filed Nov. 3, 1922.

HOOSIER

Particular description of goods.—Dressed Poultry and Lard.
Claims use since about 1917.

Ser. No. 171,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLACK BROS. FLOUR MILLS, Beatrice, Nebr. Filed Nov. 6, 1922.



Particular description of goods.—Wheat Flour.
Claims use since Oct. 25, 1920.

Ser. No. 171,686. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY, Baltimore, Md. Filed Nov. 7, 1922.

DIONE

Particular description of goods.—Candy.
Claims use since Nov. 15, 1921.

Ser. No. 171,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARL MCKNIGHT, Pittsburgh, Pa. Filed Nov. 9, 1922.



No claim is made to the exclusive use of the words "Trade-Mark" except as the same appears in connection with the other features of the mark.
Particular description of goods.—Candy and Confections in the Form of a Candy Block Comprising a Center of Cream Filling, an Enveloping Layer of Baked Cake Dough, and an Outer Coating of Hard Chocolate.
Claims use since September, 1921.

Ser. No. 171,827. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) J. BRIGGS & SONS CO., Providence, R. I. Filed Nov. 11, 1922.



No claim is made to the word "Plate" except in association with the mark shown on the drawing, no common-law rights, however, being waived.
Particular description of goods.—Special-Process Metal and Bars, Sheets, Strips, Wires, Rods, and Tubes Made from Such Metal.
Claims use since Aug. 19, 1920.

Ser. No. 171,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITEN BISCUIT CO., Omaha, Nebr. Filed Nov. 13, 1922.



The picture shown in the drawing is fanciful.
Particular description of goods.—Cookies.
Claims use since Sept. 15, 1922.

Ser. No. 171,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEHLOR FLOUR MILLS COMPANY, St. Louis, Mo. Filed Nov. 13, 1922.

BLUE RING

Particular description of goods.—Wheat Flour.
Claims use since Dec. 22, 1915.

Ser. No. 171,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCHENRY CANNERY, Modesto, Calif. Filed Nov. 13, 1922.

Moon Valley

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Sept. 26, 1917.

Ser. No. 171,952. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PLEASANT GROVE CANNING CO., Pleasant Grove, Utah. Filed Nov. 13, 1922.

UTAH VALLEY

Particular description of goods.—Fresh Deciduous and Citrous Fruits, Fresh Vegetables, Canned Fruits, Canned Vegetables, and Fruit Jam.
Claims use since July 1, 1922.

Ser. No. 171,986. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Nov. 14, 1922.



Trade-mark consists of a purple band displayed against a bright background.
Particular description of goods.—Pencils.
Claims use since Nov. 1, 1922.

Ser. No. 172,018. (CLASS 12. CONSTRUCTION MATERIALS.) GEO. M. SPIEGLE & CO., Philadelphia, Pa. Filed Nov. 14, 1922.

MS

Particular description of goods.—Lumber of All Kinds.
Claims use since 1895.

Ser. No. 172,071. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. G. WOOL PACKING COMPANY, San Jose, Calif. Filed Nov. 15, 1922.

Sundipt

Particular description of goods.—Canned Fruits, Canned Fruit Salad, Canned Vegetables, and Dried Fruit.
Claims use since Oct. 12, 1922.

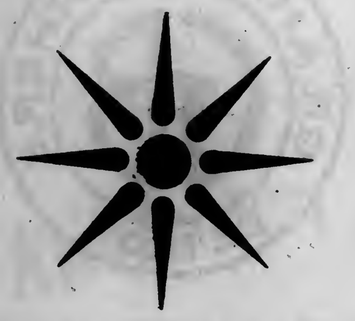
Ser. No. 172,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAIN BELT MILLS COMPANY, South St. Joseph, Mo. Filed Nov. 17, 1922.

"GEE-BEE"



Particular description of goods.—Horse Feed, Dairy Feed, Hen Feed, Chick Feed, Egg Mash, Alfalfa-Molasses Feed, Hog Feed, Sheep Feed, Chicken Fattener, and Cattle Fattener.
Claims use since Dec. 1, 1916.

Ser. No. 172,228. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KIRBY, BEARD & CO., LTD., Birmingham, England. Filed Nov. 18, 1922.



Particular description of goods.—Pins and Hairpins of Nonprecious Metal and Handsewing Needles of All Kinds.
Claims use since May 18, 1867.

Ser. No. 172,229. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KIRBY, BEARD & CO., LTD., Birmingham, England. Filed Nov. 18, 1922.



Particular description of goods.—Pins and Hairpins of Nonprecious Metal.
Claims use since July 22, 1841.

Ser. No. 172,230. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KIRBY, BEARD & CO., LTD., Birmingham, England. Filed Nov. 18, 1922.



Particular description of goods.—Pins of Nonprecious Metal.
Claims use since about Feb. 7, 1884.

Ser. No. 172,272. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GRAHAM BROTHERS, Evansville, Ind. Filed Nov. 20, 1922.

GRAHAM BROTHERS GB DETROIT

No claim is made to exclusive appropriation of the word "Detroit" apart from the mark shown.
Particular description of goods.—Motor Trucks and Automobiles.
Claims use since Sept. 28, 1922.

Ser. No. 172,332. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HUNGARIAN RUBBER GOODS FACTORY LIMITED, Budapest, Hungary. Filed Nov. 21, 1922.

CORDATIC

Particular description of goods.—Tires for Cycles, Motor Cars, and Other Vehicles, Manufactured Out of India Rubber, Caoutchouc, or Its Surrogates or of a Mixture Thereof.
Claims use since Sept. 30, 1922.

Ser. No. 172,349. (CLASS 39. CLOTHING.) PERFECTION CAP COMPANY, INCORPORATED, Seattle, Wash. Filed Nov. 21, 1922.

PERFECAP

Particular description of goods.—Men's, Women's, and Children's Hats and Caps.
Claims use since Oct. 1, 1921.

Ser. No. 172,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. HOPKINS & CO., New York, N. Y. Filed Nov. 22, 1922.

DEAD EASY

Particular description of goods.—Insecticide.
Claims use since Oct. 2, 1922.

Ser. No. 172,416. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Nov. 23, 1922.

NINETY-SIX

Particular description of goods.—Rubber Tires.
Claims use since Nov. 11, 1922.

Ser. No. 172,506. (CLASS 32. FURNITURE AND UPHOLSTERY.) HARVEY M. BROWN, Philadelphia, Pa. Filed Nov. 25, 1922.



Trade-mark consists of a window with vines.
Particular description of goods.—Window Shades.
Claims use since Mar. 4, 1922.

Ser. No. 172,590. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN KIRKPATRICK, Richland Center, Wis. Filed Nov. 27, 1922.

RED STAR

The drawing is conventionally lined to denote red, that being the color in which the trade-mark appears.
Particular description of goods.—Cheese.
Claims use since April, 1903.

Ser. No. 172,609. CLASS 38. PRINTS AND PUBLICATIONS.) THE MOVIE HOME JOURNAL CO., Boston, Mass. Filed Nov. 27, 1922.

THE MOVIE HOME JOURNAL

Particular description of goods.—Periodical Monthly Magazine.
Claims use since September, 1922.

Ser. No. 172,642. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ELLIOTT COMPANY, Kittery, Me. Filed Nov. 28, 1922.

The Elliott Addressing System MADE BY THE ELLIOTT CO of CAMBRIDGE, MASS

Applicant disclaims exclusive right to the words "Addressing System," "Made by," and "of Cambridge, Mass." apart from the mark shown by the drawing.
Particular description of goods.—Addressing Machinery and Equipment and Supplies Therefor—Namely, Addressing Machines, Stencil-Cutting Machines, and Stencils for Said Addressing Machines.
Claims use since Nov. 1, 1922.

Ser. No. 172,681. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KIRBY, BEARD & CO., LTD., Birmingham, England. Filed Nov. 29, 1922.

KIRBY BEARD & Co.

Particular description of goods.—Pins and Hairpins of Nonprecious Metal and Hand Sewing Needles of All Kinds.
Claims use since May 16, 1841.

Ser. No. 172,688. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTINO SCIANNA, Lafayette, La. Filed Nov. 29, 1922.



Gustino Sciana

The portrait is that of the applicant.
Particular description of goods.—Preparation for Rheumatism and Pains of All Kinds, Cramps, Fresh and Old Cuts, and Sores.
Claims use since Nov. 1, 1922.

Ser. No. 172,700. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITEHOUSE PRODUCTS CO., Chicago, Ill. Filed Nov. 29, 1922.

Kwikleen

Particular description of goods.—Compound for Cleaning Hands and the Like.
Claims use since May 15, 1921.

Ser. No. 172,804. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OLSEN-MOLLER MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 1, 1922.

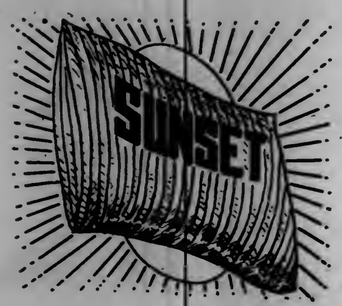
JIFFY BRAKE GRIPPER

No claim is made to the exclusive use of the words "Brake Gripper," which are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Brake Compound.

Claims use since Nov. 15, 1922.

Ser. No. 172,911. (CLASS 32. FURNITURE AND UPHOLSTERY.) SUNSET FEATHER CO., San Francisco, Calif. Filed Dec. 4, 1922.



The representation of a pillow appearing in the drawing does not form a part of the trade-mark sought to be registered apart from the mark shown in the drawing.

Particular description of goods.—Pillows and Cushions.

Claims use since 1907.

Ser. No. 173,066. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN HAIR FELT CO., Chicago, Ill. Filed Dec. 8, 1922.

OZITE

Particular description of goods.—Hair Carpet Cushions and Hair Seat Cushions.

Claims use since Oct 24, 1921.

Ser. No. 173,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAUD D. COULTER, Los Angeles, Calif. Filed Dec. 11, 1922.



Particular description of goods.—Bread, Biscuits, Cake, Cookies, Cinnamon Rolls, Pies, Rolls, and Doughnuts.

Claims use since Nov. 15, 1922.

Ser. No. 173,213. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JACOB RUPPERT, New York, N. Y. Filed Dec. 11, 1922.



The drawing is lined for red color to indicate those portions as red.

Particular description of goods.—Barley-Malt Extract.

Claims use since January, 1922.

Ser. No. 173,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLNER & MAIMAN, Brooklyn, N. Y. Filed Dec. 11, 1922.

SUNSET BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Eggs and Butter.

Claims use since September, 1922.

Ser. No. 173,281. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRIETTE C. FRONK, Schenectady, N. Y. Filed Dec. 13, 1922.



Particular description of goods.—Ointment for the Treatment of Rheumatism, Sprains, Sores, Burns, and Piles.

Claims use since October, 1898.

Ser. No. 173,290. (CLASS 5. ADHESIVES.) BENJAMIN LEVITT, Philadelphia, Pa. Filed Dec. 13, 1922.

STRONGHOLD

Particular description of goods.—Gasket Shellac, Glue, and Paste.

Claims use since Mar. 1, 1922.

Ser. No. 173,298. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANTE PISTOIA, San Francisco, Calif. Filed Dec. 13, 1922.

Dante Pistoia

My trade-mark consists of the facsimile of my signature.

Particular description of goods.—Medicine Used in the Treatment of Piles and Flatulency.

Claims use since Sept. 1, 1922.

Ser. No. 173,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALPH ROSE, doing business as Ralph Roesze, Zion City, Ill. Filed Dec. 13, 1922.

XZIT

Particular description of goods.—Chemical, Medical, and Pharmaceutical Preparation for Removing Hair from the Human Body.

Claims use since Aug. 1, 1922.

Ser. No. 173,326. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) W. T. GRANT COMPANY, Lynn, Mass. Filed Dec. 14, 1922.

FOX

Particular description of goods.—Paintbrushes.

Claims use since Nov. 23, 1922.

Ser. No. 173,412. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ROBERT FLETCHER & SON, LIMITED, Stoneclough, Manchester, England. Filed Dec. 16, 1922.

IVY

Without waiving any rights at common law, applicant disclaims any right to the exclusive use of any of the following words apart from the mark as shown: "Mill" and "Made in England."

Particular description of goods.—Paper Treated, Cut to Size, and Ready for Use in Making Cigarettes.

Claims use since on or about May 6, 1922.

Ser. No. 173,486. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922.

D. P.

Particular description of goods.—Fire Brick, Fire-Brick Cement, Fire Clay, and Tile.

Claims use since Jan. 12, 1920.

Ser. No. 173,487. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922.

H. M.

Particular description of goods.—Fire Brick, Fire-Brick Cement, Fire Clay, and Tile.

Claims use since Jan. 12, 1920.

Ser. No. 173,488. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922.

MIZZOU

Particular description of goods.—Fire Brick, Fire-Brick Cement, Fire Clay, and Tile.
Claims use since Nov. 1, 1922.

Ser. No. 173,489. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922.

S. M.

Particular description of goods.—Fire Brick, Fire-Brick Cement, Fire Clay, and Tile.
Claims use since Jan. 12, 1920.

Ser. No. 173,491. (CLASS 39. CLOTHING.) J. P. HARTRAY SHOE CO., Chicago, Ill. Filed Dec. 18, 1922.

GoodBoys

Trade-mark consists of the words "Good Boys."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since March, 1922.

Ser. No. 173,530. (CLASS 39. CLOTHING.) PORTAGE SHOE MFG. COMPANY, Portage, Wis. Filed Dec. 18, 1922.



No claim is made to the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Oct. 1, 1921.

Ser. No. 173,544. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Dec. 18, 1922.

AERZONATOR

Particular description of goods.—Deodorant and Disinfectant.
Claims use since April, 1918.

Ser. No. 173,546. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILCOX MOTOR PARTS & MANUFACTURING COMPANY, Saginaw, Mich. Filed Dec. 18, 1922.

WILCROM

Particular description of goods.—Tappets and Poppet Valves for Explosion Engines.
Claims use since July 1, 1922.

Ser. No. 173,547. (CLASS 38. PRINTS AND PUBLICATIONS.) M. WILE & Co., Buffalo, N. Y. Filed Dec. 18, 1922.

The Clubfello

Particular description of goods.—Monthly Publication.
Claims use since May 1, 1922.

Ser. No. 173,550. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN RANGE & FOUNDRY COMPANY, Minneapolis, Minn. Filed Dec. 19, 1922.

SANICO

Particular description of goods.—Metal Tops for Kitchen and Other Tables.
Claims use since Mar. 10, 1922.

Ser. No. 173,663. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922.

LAKE-SHEEN

Trade-mark consists of the words "Lake-Sheen." The drawing is lined for black.
Particular description of goods.—Fishing Lines.
Claims use since Aug. 1, 1922.

Ser. No. 173,668. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Dec. 21, 1922.

TOM SAWYER

Trade-mark shown in accompanying drawing, which is lined for red, consisting of the name "Tom Sawyer," an adaptation of Samuel L. Clemens's character of that name.
Particular description of goods.—Fishing Lines.
Claims use since Jan. 15, 1918.

Ser. No. 173,675. (CLASS 32. FURNITURE AND UPHOLSTERY.) ED. ROOS COMPANY OF FOREST PARK, Forest Park, Ill. Filed Dec. 21, 1922.

E.R.Co.
Forest Park Line
FOREST PARK, ILLINOIS

No claim is made to the words "Line" and "Forest Park, Illinois" apart from the mark shown.
Particular description of goods.—Cedar Chest.
Claims use since Nov. 2, 1922.

Ser. No. 173,717. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NEW YORK WIRE & SPRING COMPANY, Hoboken, N. J. Filed Dec. 22, 1922.

DEFENDER

Particular description of goods.—Automobile Bumpers.
Claims use since June 15, 1922.

Ser. No. 173,738. (CLASS 12. CONSTRUCTION MATERALS.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed Dec. 23, 1922. Under section 9 of the act of Mar. 19, 1920.

BETHLEHEM

Particular description of goods.—Structural Steel.
Claims use since 1908.

Ser. No. 173,912. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANDREW C. CAMPBELL, INCORPORATED, Waterbury, Conn. Filed Dec. 28, 1922.



Particular description of goods.—Machines for Cutting Sheet Metal, Sometimes Known as Nibbling Machines.
Claims use since Nov. 21, 1922.

Ser. No. 173,943. (CLASS 32. FURNITURE AND UPHOLSTERY.) GEORGE EDWARD TOMLINSON, Winchester, Ky. Filed Dec. 28, 1922.



No claim made to the exclusive use of the words "Take-Down Tables Winchester Ky." or to the representations of the table apart from the mark as shown in the drawing.
Particular description of goods.—Take-Down Tables.
Claims use since Nov. 29, 1922.

Ser. No. 173,972. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARTINS BIRMINGHAM LIMITED, Birmingham, England. Filed Dec. 29, 1922.

ZOFLI

Particular description of goods.—Golf Balls and Footballs.
Claims use since October, 1922.

Ser. No. 174,077. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GARRETT AND CO. INC., Brooklyn, N. Y. Filed Jan. 2, 1923.

CLARO

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirups for Preparing Same.
Claims use since 1916.

Ser. No. 174,185. (CLASS 32. FURNITURE AND UPHOLSTERY.) NIGHTRACK MANUFACTURING COMPANY, Huntington, W. Va. Filed Jan. 4, 1923.

NIGHTRACK

Particular description of goods.—Article of Furniture in the Nature of a Costumer.
Claims use since June 8, 1922.

Ser. No. 174,187. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SURE-EDGE STROPPER COMPANY, Minneapolis, Minn. Filed Jan. 4, 1923.

SURE-EDGE STROPPER

No claim is made to the word "Stropper" apart from the mark as shown.
Particular description of goods.—Razor-Blade-Stropping Holders.
Claims use since Aug. 1, 1921.

Ser. No. 174,360. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOSEPH H. EWING, doing business as Diamond Manufacturing Company, Malta, Ohio. Filed Jan. 9, 1923.

RED DIAMOND

Particular description of goods.—Gaming Devices Used in Amusement Parks and Played with Balls Dropped into a Receiver, Gaming Devices at Which Balls are Thrown, and Gaming Devices in Which Balls are Rolled or Cued.
Claims use since December, 1922.

Ser. No. 174,377. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) YARDLEY & CO., LIMITED, Stratford, London, England. Filed Jan. 9, 1923.



No claim is made to the words "Freesia" and "8 New Bond St., London" apart from the mark shown.
Particular description of goods.—Toilet Soap.
Claims use since December, 1919.

Ser. No. 174,378. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERTO VALES COMPANY, New Orleans, La. Filed Jan. 10, 1923.

LAVADOR

Particular description of goods.—Soap.
Claims use since Dec. 22, 1922.

Ser. No. 174,491. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHMOND G. STOBER, doing business as Santa Clara Company, Boston, Mass. Filed Jan. 11, 1923.

WARD 8

Particular description of goods.—Nonalcoholic, Maltless Compounds of Grenadine Sirup, Rock-Candy Sirup, and Lime Juice Sold as a Soft Drink.
Claims use since about Sept. 1, 1922.

Ser. No. 174,523. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MACK TOOL COMPANY, INC., Rochester, N. Y. Filed Jan. 12, 1923. Under ten-year proviso.

D.R.BARTON 1832. ROCHESTER.N.Y.

Particular description of goods.—Carving Tools, Edge Tools, Coopers' Tools, and the Like—Namely, Axes, Adzes, Hatchets, Hammers, Shaves, Chamfer Knives, Drawing Knives, Inshaves, Spokeshaves, Scrapers, Raising Irons, Flagging Irons, V-Irons, V-Crozes, Croze Irons, Square V-Irons, Dowel Bits, Dowel Forms, Pulleys, Nailing Blocks, Horse Heads, Dowel Machines, Froes, Rivet Sets, Chisels, Punches, Vises, Coopers, Anvils, Beakhorns, Slicks, Gouges, Parting Tools, Plane Irons, Bung Borers, Bung Starts, Bung Picks, Socket Drivers, Howels, Chamfer Howels, Levelers, Head Floats, Jointers, Chime Mauls, Hoop Lock Cutters, Float Irons, Howel Irons, Leveler Irons, Spokeshave Irons, Gouge Howel Irons.
Claims use since 1875.

Ser. No. 174,534. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HENDRIK SPARRIUS, doing business as Zenith Golf Ball Works, New York, N. Y. Filed Jan. 12, 1923.

ZENITH RAY

Particular description of goods.—Golf Balls.
Claims use since on or about Mar. 10, 1922.

Ser. No. 174,537. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HENDRIK SPARRIUS, doing business as Zenith Golf Ball Works, New York, N. Y. Filed Jan. 12, 1923.

ZENITH ORB

Particular description of goods.—Golf Balls.
Claims use since on or about Mar. 10, 1922.

Ser. No. 174,612. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DURKEE-ATWOOD CO., Minneapolis, Minn. Filed Jan. 15, 1923.

Pedal Pants

Particular description of goods.—Pedal Covers.
Claims use since about Nov. 1, 1921.

Ser. No. 174,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Jan. 15, 1923.

ANESTHONE

Particular description of goods.—Anesthetic Cream.
Claims use since Mar. 16, 1910.

Ser. No. 174,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Jan. 15, 1923.

BOROL

Particular description of goods.—Antiseptic Mouth Wash and Gargle.
Claims use since Sept. 19, 1904.

Ser. No. 174,634. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Jan. 15, 1923.

CHOLELITH

Particular description of goods.—Preparation for Treatment of Cholelithiasis and Allied Conditions.
Claims use since May 7, 1907.

Ser. No. 174,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 15, 1923.

l'Emeraude

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since June 10, 1920.

Ser. No. 174,738. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUBERT C. HART, Unionville, Conn. Filed Jan. 18, 1923.

KING OF CUTTERS

Particular description of goods.—Butcher Knives, Kitchen Knives, Safety-Razor Blades, and Glass Cutters.
Claims use since 1878 with butcher knives, kitchen knives, and glass cutters; since 1915 with razor blades.

Ser. No. 174,747. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Jan. 18, 1923.

CRIMSON BEAUTY

Drawing is lined for red.
Particular description of goods.—Fishing Lines.
Claims use since May 1, 1910.

Ser. No. 174,834. (CLASS 12. CONSTRUCTION MATERIALS.) FRANCIS W. HENNESSY, East Providence, R. I. Filed Jan. 20, 1923.

NEATOP

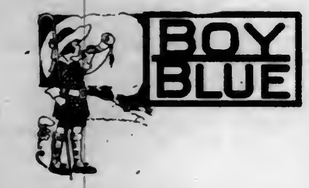
Particular description of goods.—Roof-Edging Device in the Nature of a Metal Cornice.
Claims use since December, 1922.

Ser. No. 174,867. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STEVENS & COMPANY, INC., Providence, R. I. Filed Jan. 20, 1923.

ARTSHEL KREST

Particular description of goods.—Ophthalmic Mountings and Parts Thereof.
Claims use since August, 1918.

Ser. No. 174,869. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWINE BREEDERS PURE SERUM COMPANY, Thorntown, Ind. Filed Jan. 20, 1923.



Particular description of goods.—Toilet Soap.
Claims use since about Nov. 1, 1922.

Ser. No. 174,875. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland. Filed Jan. 22, 1923.

AJAG

Particular description of goods.—Crude and Prepared Aluminum and Aluminum Alloys.
Claims use since June 19, 1920.

Ser. No. 174,961. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IRVING J. HALPERN, doing business as Noise Making Devices Company, New York, N. Y. Filed Jan. 23, 1923.

KLITTER
KLATTER

Particular description of goods.—Noise-Making Devices in the Nature of Hand Rattles.
Claims use since January, 1922.

Ser. No. 175,029. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SIPP NOVELTY CO. INC., New York, N. Y. Filed Jan. 24, 1923.

"Odds On"

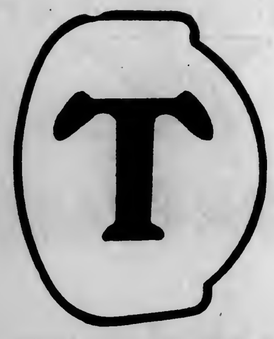
Trade-mark consists of the words "Odds On."
Particular description of goods.—Spinning Tops.
Claims use since Jan. 3, 1923.

Ser. No. 175,189. (CLASS 15. OILS AND GREASES.) HENRY H. CROSS COMPANY, Chicago, Ill. Filed Jan. 27, 1923.



No claim made to the exclusive use of the words "Motor Oil" apart from the mark as shown.
Particular description of goods.—Motor Oil.
Claims use since June 15, 1922.

Ser. No. 175,278. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TIMKEN ROLLER BEARING COMPANY, Canton, Ohio. Filed Jan. 29, 1923.



Particular description of goods.—Roller Bearings and Parts Thereof.
Claims use since Dec. 9, 1922.

Ser. No. 175,289. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN TRANSFORMER COMPANY, Newark, N. J. Filed Jan. 29, 1923.

AMERTRAN

Particular description of goods.—Transformers Used in Radio Apparatus and Parts Therefor.
Claims use since on or about June 1, 1922.

Ser. No. 175,291. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland. Filed Jan. 30, 1923.

Rising Sun

Particular description of goods.—Aluminum and Aluminum Alloys, (Crude and Partly Prepared).
Claims use since Feb. 22, 1921.

Ser. No. 175,332. (CLASS 39. CLOTHING.) BRAMAN & PARROTT, Knoxville, Tenn. Filed Jan. 31, 1923.



The lining on the drawing is for the purpose of shading only and not for a particular color. The use of the word "Brand" is not claimed separate from other elements of the mark.

Particular description of goods.—Rubber Heels for Shoes.

Claims use since Dec. 11, 1922.

Ser. No. 175,377. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Feb. 1, 1923.

Phantom

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth in the Piece.

Claims use since about Dec. 1, 1922.

Ser. No. 175,378. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Feb. 1, 1923.

ALLTYME

The lining as shown in the drawing is for the purpose of shading.

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Crepe in the Piece.

Claims use since about Dec. 1, 1922.

Ser. No. 175,544. (CLASS 38. PRINTS AND PUBLICATIONS.) RALPH FORD COUCH, Washington, D. C. Filed Feb. 5, 1923.

The OUTLINE of BUSINESS

EDITED BY

Ralph F. Couch,

Particular description of goods.—Monthly Publication.

Claims use since Oct. 1, 1922.

Ser. No. 175,572. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STEPHENS MOTOR CAR COMPANY, INCORPORATED, Moline, Ill. Filed Feb. 5, 1923.



Particular description of goods.—Automobiles.

Claims use since Dec. 1, 1922.

Ser. No. 175,597. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHRISTIAN BECKER, INC., New York, N. Y. Filed Feb. 6, 1923.

AUTODEX

Particular description of goods.—Balances and Weighing Scales.

Claims use since Jan. 26, 1923.

Ser. No. 175,750. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Feb. 8, 1923.



Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages; and Mailing Envelopes.

Claims use since Oct. 23, 1922.

Ser. No. 175,791. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY & ALLEN, Auburn, N. Y. Filed Feb. 9, 1923.

HA

Particular description of goods.—Metal Castings and Forgings of Standard and Special Shapes.

Claims use since January, 1922.

Ser. No. 175,843. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUCKEYE TRACTION DITCHER CO., Findlay, Ohio. Filed Feb. 10, 1923.

ALLIGATORS

Particular description of goods.—Traction Wheels.

Claims use since December, 1914.

Ser. No. 175,882. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL TUBE COMPANY, Pittsburgh, Pa. Filed Feb. 10, 1923.

B

8

Particular description of goods.—Metal Couplings, Metal Pipes, Metal Tubes, and Metal Casings.

Claims use since Sept. 19, 1922.

Ser. No. 176,128. (CLASS 37. PAPER AND STATIONERY.) C. HOWARD HUNT PEN COMPANY, Camden, N. J. Filed Feb. 16, 1923.

HAWK QUILL

Particular description of goods.—Pens.

Claims use since on or about Jan. 1, 1903.

Ser. No. 176,163. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA CITRUS FRUIT JUICE COMPANY, Wilmington, Del., and San Francisco, Calif. Filed Feb. 17, 1923.

VALNA

Particular description of goods.—Nonalcoholic, Maltless, Concentrated Fruit Juices—Namely, Orange and Lemon—for Making Soft Drinks.

Claims use since Sept. 1, 1922.

Ser. No. 176,182. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED. ALEXANDER HERZ, doing business as The Herz Straw Co., New York, N. Y. Filed Feb. 17, 1923.

SUNSHINE

Particular description of goods.—Paper Drinking Straws.

Claims use since Jan. 31, 1923.

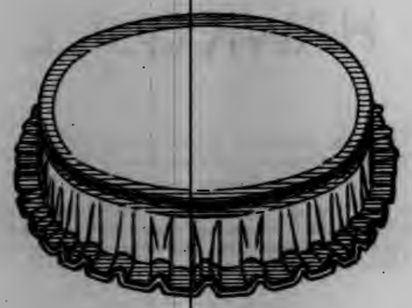
Ser. No. 176,202. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOLINE PLOW COMPANY, INCORPORATED, Moline, Ill. Filed Feb. 17, 1923.

UNI-TILLER

Particular description of goods.—Devices for Carrying Agricultural Tools and Connecting Them to Tractors or Other Sources of Draft Power.

Claims use since Dec. 1, 1922.

Ser. No. 176,276. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE NU GRAPE COMPANY OF AMERICA, Atlanta, Ga. Filed Feb. 19, 1923.



No claim is made to the representation of a bottle crown except in connection with the mark as shown. The drawing is lined to represent the color blue.

Particular description of goods.—Nonalcoholic, Maltless Grape Beverage.

Claims use since Jan. 27, 1923.

Ser. No. 176,314. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TAINTOR COMPANY, New York, N. Y. Filed Feb. 19, 1923.

VICTORIA

Trade-mark consists of the word "Victoria."

Particular description of goods.—Paris White.

Claims use since on or before Dec. 1, 1892.

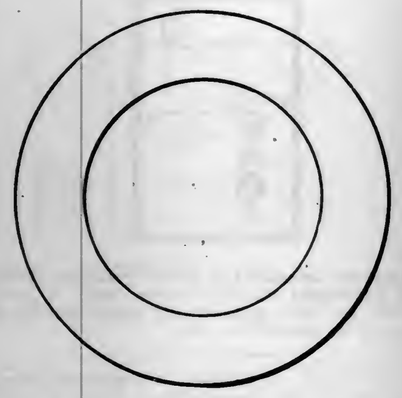
Ser. No. 176,321. (CLASS 37. PAPER AND STATIONERY.) BLISS COMPANY, INC., New York, N. Y. Filed Feb. 20, 1923.

MEMO CHEK

Particular description of goods.—Memorandum-Paper Holder.

Claims use since Apr. 1, 1922.

Ser. No. 176,330. (CLASS 37. PAPER AND STATIONERY.) DENNISON MANUFACTURING CO., Framingham, Mass. Filed Feb. 20, 1923.



Particular description of goods.—Tags.

Claims use since Feb. 1, 1923.

Ser. No. 176,411. (CLASS 39. CLOTHING.) LONDON & GREENSTEIN, INC., New York, N. Y. Filed Feb. 21, 1923.

La Coquette

Particular description of goods.—Ladies' Trimmed and Tailored Hats.

Claims use since Jan. 31, 1923.

Ser. No. 176,502. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. S. ROSENTHAL CO., INC., New York, N. Y. Filed Feb. 23, 1923.

RADIVS

Particular description of goods.—All-Silk Fabric.

Claims use since Jan. 10, 1923.

Ser. No. 176,522. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY INC., New York, N. Y. Filed Feb. 24, 1923.



Particular description of goods.—Cotton Piece Goods.

Claims use since on or about Jan. 12, 1921.

Ser. No. 176,546. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. C. HOFFMAN & CO., New York, N. Y. Filed Feb. 24, 1923.

HOPARA

Particular description of goods.—Silk and Wool Crepe in the Piece.

Claims use since Feb. 17, 1923.

Ser. No. 176,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULGHUM & COMPANY, Los Angeles, Calif. Filed Feb. 26, 1923.

California Girl

Particular description of goods.—Hair Nets.

Claims use since Oct. 1, 1922.

Ser. No. 176,614. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULGHUM & COMPANY, Los Angeles, Calif. Filed Feb. 26, 1923.

PROTEX

Particular description of goods.—Hair Nets.

Claims use since Oct. 1, 1922.

Ser. No. 176,668. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLAFLIUS INCORPORATED, New York, N. Y. Filed Feb. 27, 1923.

Nip and Tuck

Trade-mark consists of the words "Nip and Tuck."

Particular description of goods.—Cotton Piece Goods.

Claims use since about Oct. 11, 1922.

Ser. No. 176,702. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILDER-PIKE THERMOMETER COMPANY, INC., TROY, N. Y. Filed Feb. 27, 1923.

Sally Sweet

Particular description of goods.—Thermometers.

Claims use since on or about Nov. 1, 1921.

Ser. No. 176,738. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. C. HORN COMPANY, New York, N. Y. Filed Feb. 28, 1923.

CHINA FLAT
OIL WALL PAINT



The words "China Flat" and "Oil Wall Paint" are disclaimed apart from the mark shown on the drawing. Trade-mark consists of the words "China Flat" and a fanciful picture of a Chinaman with an inverted pail of paint upon his head. The drawing is conventionally marked to indicate yellow.

Particular description of goods.—Ready-Mixed Paint for Plastered Walls, Brick or Concrete Surfaces, Wood and Metal Trim.

Claims use since Mar. 1, 1922.

Ser. No. 176,780. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARNOLD, CHENEY & CO., INC., New York, N. Y. Filed Mar. 1, 1923.



A. C. & Co.

Particular description of goods.—Cotton Piece Goods.

Claims use since 1898.

Ser. No. 177,015. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MONTAGUE & CO., INC., New York, N. Y. Filed Mar. 5, 1923.

VALANSIDE

Particular description of goods.—Cretonnes in the Piece, Valances, and Curtains.
Claims use since Jan. 20, 1923.

Ser. No. 177,037. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOPTOGLOU BROS. OF NEW YORK, New York, N. Y. Filed Mar. 6, 1923.

ALSANDJAK

The Turkish characters represented in the drawing mean "Red Flag Sheeting." No claim made to the exclusive use of the word "Sheeting" as represented in the Turkish characters apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since June 23, 1922.

Ser. No. 177,092. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Mar. 7, 1923.

KARNAVAR

Particular description of goods.—Silk Piece Goods.
Claims use since November, 1922.

Ser. No. 177,368. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Mar. 13, 1923.

Blystrette

Particular description of goods.—Silk Piece Goods.
Claims use since Jan. 26, 1923.

Ser. No. 177,373. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIUS GARFINKLE, doing business as Julius Garfinkle & Co., Washington, D. C. Filed Mar. 13, 1923.

"OUR"
Hair Nets
Make your Hair More Beautiful

No claim made to any right of registration under the statute of "Hair Nets Make Your Hair More Beautiful" except in connection with the mark as shown.
Particular description of goods.—Hair Nets.
Claims use since Mar. 6, 1923.

Ser. No. 177,594. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COCKCROFT SILK CO. INC., New York, N. Y. Filed Mar. 17, 1923.

Nile Valley

Particular description of goods.—Silk and Silk-Mixed Fabrics.
Claims use since Mar. 3, 1923.

Ser. No. 177,629. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD SMITH & COMPANY, Long Island City, N. Y. Filed Mar. 17, 1923.



Applicant disclaims any exclusive right to the word "Varnishes" or to the words "Trade-Mark" apart from the mark shown on the drawing.
Particular description of goods.—Varnishes.
Claims use since Jan. 22, 1923.

Ser. No. 177,805. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VALENTINE & BUNKER, New York, N. Y. Filed Mar. 21, 1923.

OLE TUT

Trade-mark consists of the words "Ole Tut."
Particular description of goods.—Silk, Cotton, and Woolen Piece Goods and Mixtures of the Same.
Claims use since Mar. 14, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 1, 1923.

167,339. SELF-RISING WHEAT FLOUR. MAJESTIC MILLING CO., Aurora, Mo.
Filed April 29, 1922. Serial No. 163,103. PUBLISHED DECEMBER 19, 1922.

167,340. WHEAT FLOUR. LUEHRMANN HAY & GRAIN CO., St. Louis, Mo.
Filed April 29, 1922. Serial No. 163,097. PUBLISHED DECEMBER 19, 1922.

167,341. WRITING, PRINTING, AND BOOK PAPER. C. P. LESH PAPER COMPANY, Indianapolis, Ind.
Filed April 29, 1922. Serial No. 163,093. PUBLISHED JULY 25, 1922.

167,342. FACE POWDER. AMERICAN EXCELSIOR TRADING COMPANY, New York, N. Y.
Filed April 28, 1922. Serial No. 163,024. PUBLISHED DECEMBER 26, 1922.

167,343. EDIBLE COCONUT-OIL PRODUCTS—NAMELY, SOFT COCONUT BUTTER, PLASTIC COCONUT BUTTER, AND HARD COCONUT BUTTER. ISAAC M. SIMONIN, doing business as C. F. Simonin's Sons, Philadelphia, Pa.
Filed April 27, 1922. Serial No. 163,009. PUBLISHED JANUARY 30, 1923.

167,344. FOODSTUFFS PRODUCED ON THE FARM AND IN THE DAIRY—VIZ, BUTTER, FRESH EGGS, CHEESE. C. M. RYDER, Steubenville, Ohio.
Filed April 27, 1922. Serial No. 163,004. PUBLISHED DECEMBER 19, 1922.

167,345. PERFUMES. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 27, 1922. Serial No. 162,975. PUBLISHED AUGUST 22, 1922.

167,346. HEALING OINTMENT. THE HYGEIA NURSING BOTTLE CO. INC., Buffalo, N. Y.
Filed March 17, 1922. Serial No. 160,808. PUBLISHED JANUARY 23, 1923.

167,347. MATCHES. THE DIAMOND MATCH COMPANY, Chicago, Ill.
Filed February 3, 1922. Serial No. 158,821. PUBLISHED APRIL 25, 1922.

167,348. MATCHES. THE DIAMOND MATCH COMPANY, Chicago, Ill.
Filed February 3, 1922. Serial No. 158,820. PUBLISHED APRIL 25, 1922.

167,349. PREPARATION FOR CERTAIN NAMED AILMENTS. HONOROFF & WITTMER CO., Uniontown, Pa.
Filed September 20, 1921. Serial No. 153,140. PUBLISHED DECEMBER 26, 1922.

167,350. MEDICAL VAGINAL SUPPOSITORY. EVA B. NORTON, doing business as E. B. Norton Remedy Company, Houston, Tex.
Filed August 25, 1921. Serial No. 152,180. PUBLISHED DECEMBER 26, 1922.

167,351. HAIR TONIC. JULES LEQUY, doing business as Artemisia, Montreal, Quebec, Canada.
Filed July 20, 1921. Serial No. 150,694. PUBLISHED JANUARY 23, 1923.

167,352. WHEELBARROWS. STERLING WHEELBARROW CO., Milwaukee, Wis.
Filed July 16, 1921. Serial No. 150,489. PUBLISHED JANUARY 23, 1923.

167,353. CERTAIN NAMED PHONOGRAPHIC APPARATUS. POLYPHONWERKE AKTIENGESELLSCHAFT, Berlin, Germany.
Filed April 1, 1921. Serial No. 145,585. PUBLISHED JANUARY 30, 1923.

167,354. TYPE OF FINGER RINGS KNOWN AS WEDDING RINGS. J. B. BOWDEN & COMPANY, New York, N. Y.
Filed March 3, 1921. Serial No. 144,273. PUBLISHED JANUARY 30, 1923.

167,355. CANDIES. L. R. STEEL COMPANY, INC., Buffalo, N. Y.
Filed February 28, 1921. Serial No. 144,160. PUBLISHED MARCH 14, 1922.

167,356. INSECTICIDES, DEODORANTS, GERMICIDES, AND DISINFECTANTS. STANDARD CHEMICAL WORKS, Reading and Womelsdorf, Pa.
Filed February 26, 1921. Serial No. 144,104. PUBLISHED SEPTEMBER 20, 1921.

167,357. BUTTER, EGGS, BOTH FRESH AND STORAGE, AND RAW CREAM. PIONEER CREAMERY CO., Galesburg, Ill.
Filed February 18, 1921. Serial No. 143,783. PUBLISHED DECEMBER 19, 1922.

167,358. TOOTH PASTE. NULYNE LABORATORIES, Jackson, Mich.
Filed November 13, 1919. Serial No. 124,864. PUBLISHED APRIL 13, 1920.

167,359. DIGESTIVE AND LIVER POWDER, A PREPARATION FOR THE RELIEF OF STOMACH ILLS. THE JACKSON MEDICINE CO., Zanesville, Ohio.
Filed November 13, 1922. Serial No. 171,924. PUBLISHED FEBRUARY 13, 1923.

167,360. FLUTES AND PICCOLOS. WM. S. HAYNES CO., Boston, Mass.
Filed October 26, 1922. Serial No. 171,216. PUBLISHED JANUARY 30, 1923.

167,361. BICYCLES. LEON A. OLMSTED, doing business as United States Athletic Company, Chicago, Ill.
Filed October 12, 1922. Serial No. 170,664. PUBLISHED JANUARY 23, 1923.

167,362. TOOTH POWDER AND TOOTH PASTE. NATURE PRODUCTS COMPANY, Tonopah, Nev.
Filed October 3, 1922. Serial No. 170,256. PUBLISHED JANUARY 30, 1923.

167,363. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, FACE LOTION, FACE CREAM, AND ROUGE. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,087. PUBLISHED JANUARY 30, 1923.

167,364. FACE LOTION. A. J. KRANK MFG. CO., St. Paul, Minn.
Filed September 28, 1922. Serial No. 170,022. PUBLISHED JANUARY 23, 1923.

167,365. PREPARATION FOR USE IN INTERNAL INFLAMMATION. E. W. KNOWLTON, doing business as Knowlton Laboratories, Pasadena, Calif.
Filed September 27, 1922. Serial No. 169,977. PUBLISHED JANUARY 23, 1923.

167,366. BABY CARRIAGES AND GOCARTS. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed September 25, 1922. Serial No. 169,942. PUBLISHED JANUARY 23, 1923.

167,367. PILE OINTMENT. HENRY C. STRAHMANN, doing business as N. M. P. Laboratories, New York, N. Y.
Filed September 22, 1922. Serial No. 169,832. PUBLISHED JANUARY 23, 1923.

167,368. ANTISEPTIC FOOT POWDER FOR FOOT TROUBLES AND FOR THE BATH. A. O. SCHMIDT, doing business as A. O. Schmidt Co., San Francisco, Calif.
Filed September 21, 1922. Serial No. 169,784. PUBLISHED JANUARY 23, 1923.

167,369. AIRPLANES. THE LONGREN AIRCRAFT CORPORATION, Topeka, Kans.
Filed September 1, 1922. Serial No. 168,976. PUBLISHED JANUARY 23, 1923.

167,370. CHEMICAL PREPARATIONS FOR USE IN MAKING BLOOD TESTS. ANDREW M. ROMAN, Chicago, Ill.
Filed August 28, 1922. Serial No. 168,803. PUBLISHED FEBRUARY 13, 1923.

167,371. PREPARATION FOR THE RELIEF OF COLDS. INEZ C. GLESSNER, doing business as Largal Company, Findlay, Ohio.
Filed August 28, 1922. Serial No. 168,764. PUBLISHED JANUARY 2, 1923.

167,372. RUST SOLVENT HAVING INCIDENTAL PROPERTIES AS A LUBRICANT AND SQUEAK CURE. HALSTEAD SPECIALTIES COMPANY, San Francisco, Calif.
Filed August 12, 1922. Serial No. 168,149. PUBLISHED JANUARY 23, 1923.

167,373. MEDICINAL TONIC FOR STOMACH TROUBLES. SEBASTIAN SPINNER, New York, N. Y.
Filed August 9, 1922. Serial No. 168,008. PUBLISHED DECEMBER 26, 1922.

167,374. AROMATIC MEDICINAL LIQUID FOR RELIEF OF THROAT IRRITATIONS, COLDS, COUGHS, HAY FEVER, HEADACHE, AND CATARRH. GEORGE BAILHE, doing business as The Vocaleze Company, Fort Wayne, Ind.
Filed August 9, 1922. Serial No. 167,970. PUBLISHED DECEMBER 26, 1922.

167,375. HAIR TONICS. EDGAR A. HUGHBANKS, doing business as The Radiol Company, Milwaukee, Wis.
Filed August 7, 1922. Serial No. 167,876. PUBLISHED DECEMBER 26, 1922.

167,376. COAL-TAR CHEMICALS OR INTERMEDIATES, RUBBER ACCELERATORS OR CATALYZERS, RUBBER COMPOUNDING INGREDIENTS, AND FLOTATION AGENTS. NATIONAL ANILINE & CHEMICAL COMPANY INCORPORATED, New York, N. Y.
Filed August 4, 1922. Serial No. 167,824. PUBLISHED DECEMBER 26, 1922.

167,377. HAIR TONIC. NAKEY P. KIPUROFF, Columbus, Ohio.
Filed August 4, 1922. Serial No. 167,820. PUBLISHED DECEMBER 26, 1922.

167,378. TOILET PREPARATIONS, PARTICULARLY ROUGE. A. BOURJOIS & CO. INC., New York, N. Y.
Filed August 3, 1922. Serial No. 167,766. PUBLISHED DECEMBER 26, 1922.

167,379. ADHESIVE MEDICATED SHIELDS OR PADS FOR CORNS, CALLUSES, AND BUNIONS. THE SCHOLL MANUFACTURING COMPANY, Chicago, Ill.
Filed August 2, 1922. Serial No. 167,739. PUBLISHED DECEMBER 26, 1922.

167,380. CHEMICAL COMPOUNDS TO BE USED AS INSECT EXTERMINATORS. ROCKAWAY EXTERMINATING COMPANY, Rockaway Beach, N. Y.
Filed July 29, 1922. Serial No. 167,584. PUBLISHED JANUARY 9, 1923.

167,381. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed June 27, 1922. Serial No. 166,159. PUBLISHED JANUARY 9, 1923.

167,382. SELF-RISING FLOUR. FEDERAL MILL & ELEVATOR CO., INC., Lockport, N. Y.
Filed June 26, 1922. Serial No. 166,056. PUBLISHED JANUARY 9, 1923.

167,383. BREAD, ROLLS, AND BUNS MADE FROM GRAHAM, RYE, WHOLE-WHEAT, AND WHITE FLOURS. HENRY W. CONRAD, Momence, Ill.
Filed June 26, 1922. Serial No. 166,043. PUBLISHED JANUARY 9, 1923.

167,384. BUTTER. ABERDEEN CREAMERY COMPANY, Aberdeen, Miss.
Filed June 2, 1922. Serial No. 164,793. PUBLISHED JANUARY 30, 1923.

167,385. BIRD AND POULTRY FEEDS. THE H-O CEREAL COMPANY, INC., Buffalo, N. Y.
Filed May 29, 1922. Serial No. 164,643. PUBLISHED JANUARY 30, 1923.

167,386. OINTMENT FOR RHEUMATISM, INFLUENZA, SPASMODIC CROUP, NEURALGIA, BRONCHIAL IRRITATIONS, SORE FEET, AND LOCAL ACHES AND PAINS. LEWIS O. HARRAH, doing business as Haroma Mfg. Co., Terre Haute, Ind.
Filed May 29, 1922. Serial No. 164,640. PUBLISHED JANUARY 2, 1923.

167,387. PREPARED AND SEMIPREPARED BREAKFAST CEREALS. AUNT JEMIMA MILLS COMPANY, St. Joseph, Mo.
Filed May 29, 1922. Serial No. 164,624. PUBLISHED JANUARY 30, 1923.

167,388. LIVE POULTRY. EDWARD M. HOBBS, Berea, Ohio.
Filed May 27, 1922. Serial No. 164,592. PUBLISHED JANUARY 30, 1923.

167,389. BREAD. DES MOINES BAKERY CO., Des Moines, Iowa.
Filed May 26, 1922. Serial No. 164,536. PUBLISHED DECEMBER 19, 1922.

167,390. CHEESE. LAERSEN PRODUCTS CO., New York, N. Y.
Filed May 23, 1922. Serial No. 164,325. PUBLISHED DECEMBER 19, 1922.

167,391. CHEESE. ROETHLISBERGER & CO. INC., New York, N. Y.
Filed May 20, 1922. Serial No. 164,198. PUBLISHED JANUARY 30, 1923.

167,392. INFANTS' COLIC PREPARATION. EUGENE B. JOHNSTON, doing business as J. P. Drug Co., Donithan, Mo.
Filed May 20, 1922. Serial No. 164,168. PUBLISHED JANUARY 2, 1923.

167,393. DAIRY AND STOCK FEED. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed May 20, 1922. Serial No. 164,156. PUBLISHED DECEMBER 19, 1922.

167,394. WHEAT FLOUR. AUNT JEMIMA MILLS COMPANY, St. Joseph, Mo.
Filed May 19, 1922. Serial No. 164,090. PUBLISHED DECEMBER 19, 1922.

167,395. LOCAL ANÆSTHETIC. SEYDEL CHEMICAL COMPANY, Nitro, W. Va., and Jersey City, N. J.
Filed May 18, 1922. Serial No. 164,087. PUBLISHED JANUARY 23, 1923.

167,396. RICE AND COFFEE. PARIS & CO., New York, N. Y.
Filed May 15, 1922. Serial No. 163,894. PUBLISHED DECEMBER 19, 1922.

167,397. CHEESE. F. X. BAUMERT & CO. INC., New York, N. Y.
Filed July 15, 1922. Serial No. 166,929. PUBLISHED JANUARY 9, 1923.

167,398. CHEESE. F. X. BAUMERT & CO. INC., New York, N. Y.
Filed July 15, 1922. Serial No. 166,928. PUBLISHED JANUARY 9, 1923.

167,399. MEDIUM SALT FOR MEAT CURING AND GENERAL USE. THE CAREY SALT COMPANY, Hutchinson, Kans.
Filed July 10, 1922. Serial No. 166,658. PUBLISHED JANUARY 2, 1923.

167,400. HOPS. J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y.
Filed July 5, 1922. Serial No. 166,514. PUBLISHED DECEMBER 19, 1922.

167,401. GRASS SEEDS, FIELD SEEDS, AND GARDEN SEEDS. THE COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., and also doing business as The Eaton Flour Mills, Eaton, Colo., and as Pacific Seed House, Salt Lake City, Utah.
Filed June 30, 1922. Serial No. 166,288. PUBLISHED JANUARY 23, 1923.

167,402. CRACKERS. STANDARD BISCUIT COMPANY, Des Moines, Iowa.
Filed June 22, 1922. Serial No. 165,894. PUBLISHED JANUARY 30, 1923.

167,403. MEDICINAL PREPARATIONS FOR CERTAIN NAMED AILMENTS. WILLIAM H. RORER, Philadelphia, Pa.
Filed June 17, 1922. Serial No. 165,639. PUBLISHED JANUARY 30, 1923.

167,404. MEDICINAL PREPARATIONS FOR CERTAIN NAMED AILMENTS. S. B. LEONARDI & CO. INC., New Rochelle, N. Y.
Filed June 16, 1922. Serial No. 165,591. PUBLISHED DECEMBER 26, 1922.

167,405. EXPORT CREAM, CONDENSED CREAM, AND CHEESE. EDVARD SMIDT, Nybøllegaard, near Espe, Denmark.
Filed June 13, 1922. Serial No. 165,464. PUBLISHED JANUARY 30, 1923.

167,406. MEDICINE FOR AIDING DIGESTION. ROBERT G. BISHOP, doing business as R. G. Bishop and Company, Dallas, Tex.
Filed August 14, 1922. Serial No. 168,195. PUBLISHED JANUARY 9, 1923.

167,407. STUCCO. ST. LOUIS MATERIAL & SUPPLY COMPANY, St. Louis, Mo.
Filed August 14, 1922. Serial No. 168,224. PUBLISHED DECEMBER 26, 1922.

167,408. VENTILATORS. V-W VENTILATOR CO., Columbus, Ohio.
Filed August 14, 1922. Serial No. 168,229. PUBLISHED JANUARY 23, 1923.

167,409. LOTION FOR CHAPPED HANDS. D. & N. DRUG CO., Fort Wayne, Ind.
Filed August 17, 1922. Serial No. 168,356. PUBLISHED JANUARY 9, 1923.

167,410. CERTAIN NAMED HAIR CURLERS, HAIRPINS, AND ORNAMENTS. L. M. GARRITY & CO., INC., Boston, Mass.
Filed August 17, 1922. Serial No. 168,361. PUBLISHED JANUARY 2, 1923.

167,411. FACE POWDER, ROUGE, TOILET CREAMS, TOILET POWDER, PERFUMES, AND SACHET POWDER. HARRY KARTON, doing business as Purity Chemical Co., Philadelphia, Pa.
Filed August 18, 1922. Serial No. 168,417. PUBLISHED JANUARY 23, 1923.

167,412. GAS-STEAM RADIATORS. CABCO IRON WORKS, INC., Gowanda, N. Y.
Filed August 19, 1922. Serial No. 168,447. PUBLISHED JANUARY 23, 1923.

167,413. BREAD. THE MIDLAND FLOUR MILLING CO., Kansas City, Mo.
Filed August 19, 1922. Serial No. 168,480. PUBLISHED JANUARY 16, 1923.

167,414. DANDRUFF REMEDY, TOILET AND SKIN PREPARATION. J. E. CURRAN CORPORATION, New York, N. Y.
Filed August 21, 1922. Serial No. 168,515. PUBLISHED JANUARY 23, 1923.

167,415. DAIRY FEED. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed August 28, 1922. Serial No. 168,787. PUBLISHED JANUARY 16, 1923.

167,416. SELF-RISING WHEAT FLOUR. S. R. YANTIS MILLING CO., Fulton, Mo.
Filed September 2, 1922. Serial No. 169,041. PUBLISHED JANUARY 16, 1923.

167,417. HAARLEM-OIL CAPSULES FOR KIDNEY, LIVER, BLADDER, RHEUMATISM, AND URIC-ACID TROUBLES. STEARNS-EDDY CO., Portland, Oreg.
Filed September 11, 1922. Serial No. 169,335. PUBLISHED FEBRUARY 20, 1923.

167,418. PREPARATION FOR THE RELIEF OF PILES. STEARNS-EDDY CO., Portland, Oreg.
Filed September 11, 1922. Serial No. 169,336. PUBLISHED FEBRUARY 20, 1923.

167,419. FACE ROUGE. CHARLES LOUIS FORGEY, doing business as Witcherie Laboratory, Detroit, Mich.
Filed September 18, 1922. Serial No. 169,631. PUBLISHED JANUARY 9, 1923.

167,420. OINTMENT FOR CERTAIN NAMED AILMENTS. KLEROL LABORATORIES, INC., Buffalo, N. Y.
Filed September 28, 1922. Serial No. 170,021. PUBLISHED JANUARY 9, 1923.

167,421. INSECTICIDES. BOWKER INSECTICIDE COMPANY, New York, N. Y.
Filed September 21, 1922. Serial No. 169,749. PUBLISHED JANUARY 9, 1923.

167,422. DAILY MARKET BULLETIN. PAUL S. WARDEN, Chicago, Ill.
Filed September 29, 1922. Serial No. 170,104. PUBLISHED JANUARY 2, 1923.

167,423. SERIES OF CARTOONS. I. M. JOHNSON, New York, N. Y.
Filed October 4, 1922. Serial No. 170,295. PUBLISHED JANUARY 2, 1923.

167,424. PICTURE POST CARDS. CHARLES A. CUNNINGHAM, doing business as Abe Lincoln Post Card Co., Washington, D. C.
Filed October 12, 1922. Serial No. 170,629. PUBLISHED JANUARY 2, 1923.

167,425. BRICKS. F. GRAHAM WILLIAMS BRICK CO. INC, Atlanta, Ga.
Filed July 7, 1922. Serial No. 166,585. PUBLISHED DECEMBER 19, 1922.

167,426. LIQUID PREPARATION FOR USE ON THE SKIN TO KEEP THE MOSQUITOES AWAY. THE BALTIC CHEMICAL CO., Chicago, Ill.
Filed June 12, 1922. Serial No. 165,341. PUBLISHED JANUARY 30, 1923.

167,427. WHEAT FLOUR. PFEFFER MILLING COMPANY, Lebanon, Ill.
Filed June 5, 1922. Serial No. 165,032. PUBLISHED JANUARY 2, 1923.

167,428. CERTAIN NAMED TOILET PREPARATIONS. WILLIAM R. SMITH, doing business as Femigloria Laboratories, New York, N. Y.
Filed June 3, 1922. Serial No. 164,969. PUBLISHED OCTOBER 10, 1922.

167,429. VIOLINS AND SIMILAR INSTRUMENTS, GUITARS, MANDOLINS, AND HARPS, AND STRINGS FOR SAID INSTRUMENTS. GUSTAV PIRAZZI & COMP., Offenbach-on-the-Main, Germany.
Filed June 2, 1922. Serial No. 164,825. PUBLISHED JANUARY 30, 1923.

167,430. DRAFT ARMS. AMERICAN STEEL FOUNDRIES, Chicago, Ill.
Filed May 22, 1922. Serial No. 164,216. PUBLISHED JANUARY 23, 1923.

167,431. COSMETICS. LADDIE A. WILLISTON, doing business as Mrs. T. A. Williston, Oakland, Calif.
Filed May 10, 1922. Serial No. 163,659. PUBLISHED DECEMBER 26, 1922.

167,432. RUBBER SPONGES AND RUBBER SPONGE FOR MANUFACTURING PURPOSES. FEATHERBDGE RUBBER COMPANY, INC., Chicago, Ill.
Filed May 4, 1922. Serial No. 163,332. PUBLISHED JANUARY 30, 1923.

167,433. HAND CREAM. ERNEST R. MEYER, Los Angeles, Calif.
Filed May 3, 1922. Serial No. 163,282. PUBLISHED DECEMBER 26, 1922.

167,434. WHEAT FLOUR. ATLANTA MILLING COMPANY, Atlanta, Ga.
Filed May 3, 1922. Serial No. 163,250. PUBLISHED DECEMBER 19, 1922.

167,435. PASTRY. OSCAR DAVIS and CHARLES RAY RIDGWAY, Tonganoxie, Kans.
Filed May 2, 1922. Serial No. 163,216. PUBLISHED JANUARY 30, 1923.

167,436. SILK AND COTTON THREADS, TWISTS, AND FOR ARTIFICIAL EMBROIDERY FLOSSES. THE H. K. H. SILK COMPANY, Watertown, Conn., and New York, N. Y.
Filed May 26, 1922. Serial No. 164,540. PUBLISHED JANUARY 9, 1923.

167,437. PULVERULENT SULPHUR COMPOUND FOR TREATING SORES, CUTS, BURNS, AND BRUISES. CHEMISCHE FABRIK MARIENFELDE, G. m. b. H., Berlin-Marienfelde, Germany.
Filed May 12, 1922. Serial No. 163,737. PUBLISHED JANUARY 30, 1923.

167,438. WASHING POWDER. OPAX PRODUCTS COMPANY, Elyria, Ohio.
Filed April 24, 1922. Serial No. 162,847. PUBLISHED JANUARY 2, 1923.

167,439. MASSAGE AND FACE CREAMS, SHAMPOOS, TOILET WATERS, TALCUM POWDERS. MODEL BARBER SUPPLY CO., Peoria, Ill.
Filed March 27, 1922. Serial No. 161,400. PUBLISHED JANUARY 30, 1923.

167,440. TALLOW LARGELY USED IN SOAP MAKING. THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand.
Filed March 28, 1922. Serial No. 161,372. PUBLISHED JANUARY 23, 1923.

167,441. FROZEN AND CHILLED MUTTON, LAMB, AND BEEF, AND TALLOW DERIVED FROM LIVE STOCK FOR EDIBLE PURPOSES. THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand.
Filed May 2, 1922. Serial No. 161,371. PUBLISHED JANUARY 30, 1923.

167,442. OIL-LAMP STOVES. THE CONSOLIDATED IRON-STEEL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed March 25, 1922. Serial No. 161,235. PUBLISHED JANUARY 2, 1923.

167,443. HAIR ROLLS. REICHMAN & FAUST, New York, N. Y.
Filed March 22, 1922. Serial No. 161,065. PUBLISHED NOVEMBER 7, 1922.

167,444. FABRIC HOSE. WILLIAM AND CHARLES BECK, INC., Lawrence, Mass.
Filed March 16, 1922. Serial No. 160,740. PUBLISHED JANUARY 23, 1923.

167,445. REPAIR PATCHES FOR PNEUMATIC TUBES. HARRY E. CONROY, doing business as Edco Manufacturing Co., Wilkes-Barre, Pa.
Filed March 13, 1922. Serial No. 160,582. PUBLISHED JANUARY 2, 1923.

167,446. SOAP. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed May 26, 1922. Serial No. 164,548. PUBLISHED JANUARY 2, 1923.

167,447. SILK AND COTTON THREADS, TWISTS, AND ARTIFICIAL EMBROIDERY FLOSSES. THE H. K. H. SILK COMPANY, Watertown, Conn.
Filed May 26, 1922. Serial No. 164,541. PUBLISHED JANUARY 9, 1923.

167,448. CHEMICAL CLEANER FOR SHADE CLOTHS. THE CHEMITEX PRODUCTS COMPANY, Akron, Ohio.
Filed May 13, 1922. Serial No. 163,779. PUBLISHED JANUARY 23, 1923.

167,449. STATIONARY SWIVEL CHAIRS. MOV-EZY THEATRE SEATING CO., INC., Wilmington, Del., and New York, N. Y.
Filed May 9, 1922. Serial No. 163,587. PUBLISHED JANUARY 23, 1923.

167,450. SEAT PADS OR CUSHIONS. WEDLER-SHUFORD CO., St. Louis, Mo.
Filed April 29, 1922. Serial No. 163,125. PUBLISHED JANUARY 30, 1923.

167,451. PACKED DATES, FIGS, OLIVES, AND CHERRIES. VAN DYK AND REEVES, INC., Brooklyn, N. Y.
Filed April 21, 1922. Serial No. 162,701. PUBLISHED DECEMBER 12, 1922.

167,452. PACKAGES FOR USE IN MAKING EMERGENCY REPAIRS TO THE FAN DRIVES OF AUTOMOBILES AND TO NONMETALLIC TIRES AND TUBES. A. J. STEPHENS RUBBER CO., Kansas City, Mo.
Filed April 15, 1922. Serial No. 162,360. PUBLISHED DECEMBER 19, 1922.

167,453. PREPARATION FOR THE TREATMENT OF GOITER. RUDOLPH G. KETT, doing business as R. G. Kett Co., Milwaukee, Wis.
Filed April 11, 1922. Serial No. 162,116. PUBLISHED JANUARY 9, 1923.

167,454. LIGHT SUPPORTS. MICHAEL GREENAN, Pawtucket, R. I.
Filed April 7, 1922. Serial No. 161,879. PUBLISHED JANUARY 30, 1923.

167,455. OILS FOR PRESERVING LEATHER AND NEAT'S-FOOT OIL. THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand.
Filed March 28, 1922. Serial No. 161,381. PUBLISHED JANUARY 2, 1923.

167,456. HAIR NETS. FULGHUM & COMPANY, Los Angeles, Calif.
Filed August 10, 1922. Serial No. 168,029. PUBLISHED FEBRUARY 13, 1923.

167,457. ASPHALT COMPOSITION ROOFING IN SHEETS AND ROLLS. IVER J. ERIKSON, Worcester, Mass.
Filed August 8, 1922. Serial No. 167,939. PUBLISHED DECEMBER 19, 1922.

167,458. PREPARATION FOR TREATING SCALP DISEASES AND STIMULATING THE GROWTH OF HAIR. JOHN P. SPAKE, doing business as The Hair-O Laboratories Co., Atlanta, Ga.
Filed July 29, 1922. Serial No. 167,585. PUBLISHED JANUARY 9, 1923.

167,459. COMBINATION STOVES OR RANGES HEATED BY THE BURNING OF COMBUSTIBLE FUEL AND ELECTRICITY. MAGEE FURNACE COMPANY, Boston, Mass.
Filed July 27, 1922. Serial No. 167,481. PUBLISHED JANUARY 23, 1923.

167,460. BREAD. GEORGE W. HUCK, doing business as Home Bakery, Crystal City, Mo.
Filed July 26, 1922. Serial No. 167,392. PUBLISHED JANUARY 9, 1923.

167,461. LIME, PLASTER, CEMENT, AND MIXTURES OF CEMENT AND SAND. CUTLER-MAGNER CO., Duluth, Minn.
Filed July 24, 1922. Serial No. 167,295. PUBLISHED DECEMBER 19, 1922.

167,462. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. PARK N. CONDIT, Boston, Mass.
Filed July 22, 1922. Serial No. 167,225. PUBLISHED JANUARY 9, 1923.

167,463. TOILET PREPARATIONS—VIZ, COMPACT FACE POWDER AND COMPACT ROUGE. PETER MEYER, doing business as The Elvin Company, New York, N. Y.
Filed July 21, 1922. Serial No. 167,186. PUBLISHED JANUARY 9, 1923.

167,464. CERTAIN NAMED TOILET ARTICLES. ANNETTE LANZET, doing business as Lanzette Laboratories, San Francisco, Calif.
Filed July 20, 1922. Serial No. 167,135. PUBLISHED JANUARY 23, 1923.

167,465. THROAT TABLETS. HENRY C. JARVIS, doing business as B. B. Drug & Chemical Co., Brooklyn, N. Y.
Filed July 20, 1922. Serial No. 167,132. PUBLISHED JANUARY 9, 1923.

167,466. INSECTICIDES. ERNEST R. CHESNEY, doing business as Fly-Cide Company, Kansas City, Mo.
Filed July 20, 1922. Serial No. 167,118. PUBLISHED JANUARY 23, 1923.

167,467. SHINGLES. JOHN SCHROEDER LUMBER CO., Milwaukee, Wis.
Filed July 17, 1922. Serial No. 167,029. PUBLISHED DECEMBER 19, 1922.

167,468. MEDICINE CABINETS. J. P. EUSTIS MANUFACTURING COMPANY, Cambridge, Mass.
Filed July 17, 1922. Serial No. 166,988. PUBLISHED JANUARY 2, 1923.

167,469. FIRE BRICKS AND TILE, EXCEPT METAL AND PORCELAIN. CRESCENT REFRACTORIES COMPANY, Curwensville, Pa.
Filed July 17, 1922. Serial No. 166,984. PUBLISHED DECEMBER 19, 1922.

167,470. KIDNEY AND BLADDER MEDICINE. THE BLACKBURN PRODUCTS CO., Dayton, Ohio.
Filed July 17, 1922. Serial No. 166,979. PUBLISHED JANUARY 23, 1923.

167,471. SALVE OR SKIN BALM. THOMAS H. ADAMS, doing business as Cushman Drug Co., Vincennes, Ind.
Filed July 17, 1922. Serial No. 166,970. PUBLISHED JANUARY 23, 1923.

167,472. MILK AND CREAM. ANNA M. RICHARDS, doing business as Gramana Dairy Co., Phillipsburg, N. J.
Filed July 15, 1922. Serial No. 166,957. PUBLISHED DECEMBER 12, 1922.

167,473. GRATED CHEESE. D. COLONNA & SON, Union Hill, N. J.
Filed July 14, 1922. Serial No. 166,876. PUBLISHED JANUARY 9, 1923.

167,474. BREAKFAST CEREAL. GEORGE W. FARNY, doing business as Farny Trufood Company, Morris Plains, N. J.
Filed July 11, 1922. Serial No. 166,739. PUBLISHED JANUARY 9, 1923.

167,475. RAW OR PARTLY-PREPARED MATERIALS. THEODORE L. STRAUS, Baltimore, Md.
Filed July 8, 1922. Serial No. 166,611. PUBLISHED JANUARY 2, 1923.

167,476. STEEL FILING CABINET. ARTHUR PAULSON, New York, N. Y.
Filed May 12, 1922. Serial No. 163,765. PUBLISHED JANUARY 2, 1923.

167,477. NUTRITIVE CONFECTION IN CAKE FORM. CROWN PRODUCTS, INC., New York, N. Y.
Filed May 12, 1922. Serial No. 163,735. PUBLISHED DECEMBER 19, 1922.

167,478. CRACKERS. THE FRED W. ALBRECHT GROCERY COMPANY, Akron, Ohio.
Filed May 11, 1922. Serial No. 163,663. PUBLISHED JANUARY 30, 1923.

167,479. WHEAT FLOUR. BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo.
Filed April 28, 1922. Serial No. 163,082. PUBLISHED DECEMBER 19, 1922.

167,480. HOUSEHOLD AND OFFICE FURNITURE. CHARLES P. ROGERS & CO., INC., New York, N. Y.
Filed April 24, 1922. Serial No. 162,852. PUBLISHED DECEMBER 26, 1922.

167,481. ELECTRICALLY-OPERATED APPARATUS FOR HEATING AND BLOWING AIR FOR DRYING PURPOSES. GENERAL ENGINEERING & CONSTRUCTION COMPANY, and also doing business as Rockford Manufacturing Co., Rockford, Ill.
Filed April 21, 1922. Serial No. 162,675. PUBLISHED JANUARY 9, 1923.

167,482. PREPARATION FOR THE TREATMENT OF DISEASES OF THE BLOOD, STOMACH, KIDNEYS, AND BLADDER. FAYSSOUX-BROWN REMEDY COMPANY, Hollister, N. C.
Filed April 3, 1922. Serial No. 161,682. PUBLISHED JANUARY 2, 1923.

167,483. ANTISEPTIC COMPOUND. CHINOSOL COMPANY, New York, N. Y.
Filed March 21, 1922. Serial No. 160,994. PUBLISHED JANUARY 23, 1923.

167,484. GOITER BALM. THE HERMAN KREBS PHARMACY CO., doing business as The Herman Krebs Products Co., Cleveland, Ohio.
Filed February 28, 1922. Serial No. 159,966. PUBLISHED JANUARY 23, 1923.

167,485. CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR; VESTINGS, COTTON CLOTH, AND LINEN CLOTH. WILSON & GLENNY, LTD., Hawick, Scotland.
Filed February 27, 1922. Serial No. 159,910. PUBLISHED FEBRUARY 20, 1923.

167,486. A CHOCOLATE LAXATIVE TABLET. MUTUAL PHARMACAL COMPANY, Boston, Mass.
Filed January 17, 1922. Serial No. 158,053. PUBLISHED JUNE 6, 1922.

167,487. A MAGAZINE OR PERIODICAL ISSUED FORTNIGHTLY. THE PERIODICAL DIGEST CORPORATION, New York, N. Y.
Filed November 12, 1921. Serial No. 155,318. PUBLISHED DECEMBER 5, 1922.

167,488. BUGGIES AND CARRIAGES AND BODIES AND TOPS OF THE SAME AND AUTOMOBILE BODIES AND TOPS AND BODIES OF OTHER MOTOR VEHICLES. THE F. A. AMES COMPANY, Owensboro, Ky.
Filed September 28, 1921. Serial No. 153,426. PUBLISHED JANUARY 23, 1923.

167,489. LAXATIVE. HERBERT C. VAN BUSKIRK, doing business as The Van Co., Saugerties, N. Y., assignor to Mutual Pharmacal Company, Boston, Mass., a Corporation of Massachusetts.
Filed October 17, 1921. Serial No. 154,246. PUBLISHED JUNE 27, 1922.

167,490. DEODORANTS, DISINFECTANTS, INSECTICIDE, ROACH POWDER, PIPE CLEANSER, AND SCALE SOLVENT. SANOZONE CHEMICAL CO., Philadelphia, Pa.
Filed December 8, 1920. Serial No. 140,807. PUBLISHED JANUARY 23, 1923.

167,491. FOLDING BEDS, DAVENPORTS, AND COUCHES. LEVENSON AND ZENITZ, Baltimore, Md.
Filed February 7, 1921. Serial No. 143,281. PUBLISHED DECEMBER 26, 1922.

167,492. WHEAT FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed June 27, 1921. Serial No. 149,730. PUBLISHED JANUARY 23, 1923.

167,493. GAS, WOOD, AND OIL STOVES, RANGES, AND HEATERS. ANCHOR STOVE & RANGE CO., New Albany, Ind.
Filed July 16, 1921. Serial No. 150,425. PUBLISHED JANUARY 9, 1923.

167,494. OXYGENATED TABLET USED IN THE TREATMENT OF PULMONARY DISEASES. WILLIAM BIRDSALL HUNT, M. D., New York, N. Y.
Filed June 29, 1922. Serial No. 166,230. PUBLISHED JANUARY 16, 1923.

167,495. DRESS SHIELDS. ANITA MARTIN, New York, N. Y.
Filed June 29, 1922. Serial No. 166,240. PUBLISHED JANUARY 2, 1923.

167,496. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. FABYAN & COMPANY, INC., New York, N. Y.
Filed July 1, 1922. Serial No. 166,363. PUBLISHED JANUARY 9, 1923.

167,497. BUMPERS FOR AUTOMOBILES. ALBERT P. CRELL, Grand Rapids, Mich.
Filed July 3, 1922. Serial No. 166,434. PUBLISHED JANUARY 9, 1923.

167,498. CONCRETE PILES, CASTING FORMS FOR CONCRETE PILES, AND DRIVING FORMS OR CHANNELS FOR CONCRETE PILES. GIANT CONCRETE PILE CO., INC., New York, N. Y.
Filed July 6, 1920. Serial No. 134,563. PUBLISHED DECEMBER 19, 1922.

167,499. TALCUM POWDER. SMITH KLINE & FRENCH CO., Philadelphia, Pa.
Filed August 27, 1920. Serial No. 136,571. PUBLISHED JANUARY 23, 1923.

167,500. IRON SOLUTION FOR INTRAVENOUS AND INTRAMUSCULAR USE. BUTLER LABORATORIES, INC., New York, N. Y.
Filed July 6, 1922. Serial No. 166,521. PUBLISHED JANUARY 2, 1923.

167,501. FLESH BUILDER AND IRON TONIC. WILLIAM A. LAWLER, doing business as The Elk Pharmacy, Lexington, Tenn.
Filed July 5, 1922. Serial No. 166,508. PUBLISHED DECEMBER 26, 1922.

167,502. MEDICINAL PREPARATION FOR CERTAIN NAMED AILMENTS. ANTON W. FINGL, doing business as Goos-O-Rub Co., Chicago, Ill.
Filed July 5, 1922. Serial No. 166,504. PUBLISHED JANUARY 2, 1923.

167,503. SKIN CREAM. GEORGE JAMES SOUTHWORTH, Medicine Lodge, Kans.
Filed July 3, 1922. Serial No. 166,480. PUBLISHED DECEMBER 26, 1922.

167,504. FACE POWDERS, TALCUM POWDERS, SACHET POWDERS, TOILET POWDERS, COMPACTS, LIP STICKS, TOILET WATERS, PERFUMES, CREAMS, VANISHING CREAMS, AND TOILET CREAMS. AMERICAN TOILET GOODS COMPANY, Boston, Mass.
Filed July 3, 1922. Serial No. 166,429. PUBLISHED JANUARY 2, 1923.

167,505. SHOCK ABSORBERS FOR VEHICLES. THE WELLMAN WIEBER CHECKERS COMPANY, Cleveland, Ohio.
Filed June 29, 1922. Serial No. 166,275. PUBLISHED DECEMBER 19, 1922.

167,506. CRACKERS. STANDARD BISCUIT COMPANY, Des Moines, Iowa.
Filed June 22, 1922. Serial No. 165,890. PUBLISHED DECEMBER 12, 1922.

167,507. MOTOR VEHICLES. THE STANDARD MOTOR COMPANY LIMITED, Coventry, England.
Filed June 21, 1922. Serial No. 165,835. PUBLISHED JANUARY 2, 1923.

167,508. SUGAR WAFERS. THE GEO. H. STRIETMANN'S SONS COMPANY, Cincinnati, Ohio.
Filed June 21, 1922. Serial No. 165,823. PUBLISHED DECEMBER 12, 1922.

167,509. BUTTER. ISAAC MALLOWITZ, Trenton, N. J.
Filed June 21, 1922. Serial No. 165,805. PUBLISHED DECEMBER 12, 1922.

167,510. BREAD AND TOAST. N. A. MATSON CO., Minneapolis, Minn.
Filed June 19, 1922. Serial No. 165,702. PUBLISHED DECEMBER 12, 1922.

167,511. PORTABLE METALLIC GARAGES. JOSEPH A. BALDWIN, Baltimore, Md.
Filed July 1, 1922. Serial No. 166,341. PUBLISHED JANUARY 30, 1923.

167,512. COMPOSITION USED IN THE MANUFACTURE OF MOLDINGS, CASTINGS, OR ARTICLES SUCH AS PHONOGRAPH RECORDS. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LTD., New York, N. Y.
Filed June 29, 1922. Serial No. 166,212. PUBLISHED JANUARY 9, 1923.

167,513. PNEUMATIC TIRES AND INNER TUBES. BELL TIRE COMPANY INCORPORATED, New York, N. Y.
Filed June 1, 1922. Serial No. 164,784. PUBLISHED JANUARY 2, 1923.

167,514. ANTIPERSPIRATION COMPOUNDS. NICHOLAS BARNA, doing business as Cosmos Laboratory, Keyport, N. J.
Filed June 3, 1922. Serial No. 164,857. PUBLISHED JANUARY 30, 1923.

167,515. STUCCO MATERIAL FOR EXTERIOR AND INTERIOR USE. R. B. TYLER CO., Louisville, Ky.
Filed June 6, 1922. Serial No. 165,101. PUBLISHED JANUARY 9, 1923.

167,516. DOORS. MORGAN COMPANY, Oshkosh, Wis.
Filed June 12, 1922. Serial No. 165,404. PUBLISHED JANUARY 9, 1923.

167,517. CORN OIL FOR FOOD PURPOSES. ASPEGREN & CO., INC., New York, N. Y.
Filed June 13, 1922. Serial No. 165,436. PUBLISHED JANUARY 30, 1923.

167,518. MINERS' ACETYLENE LAMPS. JUSTRITE MANUFACTURING COMPANY, Chicago, Ill.
Filed June 17, 1922. Serial No. 165,629. PUBLISHED JANUARY 2, 1923.

167,519. CERTAIN NAMED CONSTRUCTION MATERIALS. PACIFIC CLAY PRODUCTS CO., Los Angeles, Calif.
Filed June 19, 1922. Serial No. 165,714. PUBLISHED JANUARY 30, 1923.

167,520. VITRIFIED SALT-GLAZED SEWER PIPE, TILE WATER PIPE, TILE CONDUIT PIPE, FLOOR TILE, DRAIN TILE, AND SEGMENT BLOCKS. PACIFIC CLAY PRODUCTS CO., Los Angeles, Calif.
Filed June 19, 1922. Serial No. 165,715. PUBLISHED JANUARY 30, 1923.

167,521. BRAKE-BAND LINING FOR AUTOMOBILES. VELVET ACTION BRAKE LINING CO., Charlotte, N. C.
Filed June 19, 1922. Serial No. 165,732. PUBLISHED DECEMBER 19, 1922.

167,522. PORTLAND CEMENT. SECURITY CEMENT & LIME CO., Hagerstown, Md.
Filed June 20, 1922. Serial No. 165,761. PUBLISHED JANUARY 9, 1923.

167,523. PISTON RINGS. VACUUM GROOVE PISTON RING CORPORATION, San Francisco, Calif.
Filed June 20, 1922. Serial No. 165,775. PUBLISHED DECEMBER 26, 1922.

167,524. CHEMICAL COMPOUND FOR CERTAIN NAMED PURPOSES. PINKHAM VULCAN COMPOUND CO. INC., Brooklyn, N. Y.
Filed June 21, 1922. Serial No. 165,811. PUBLISHED JANUARY 9, 1923.

167,525. COMPOUND FOR CLEANING CERTAIN NAMED GOODS. TRU-BLU PRODUCTS CO., New Florence, Pa.
Filed June 21, 1922. Serial No. 165,837. PUBLISHED JANUARY 2, 1923.

167,526. CLEANING FLUID FOR CLEANING FABRICS, PARTICULARLY WOOL AND SILK FABRICS. RUDOLPH A. BASSETT, Long Beach, Calif.
Filed June 22, 1922. Serial No. 165,850. PUBLISHED JANUARY 30, 1923.

167,527. CRUDE ASBESTOS. HODDELL, WAY AND COMPANY, LIMITED, London, England.
Filed June 24, 1922. Serial No. 165,995. PUBLISHED JANUARY 9, 1923.

167,528. STOVES AND HEATERS OTHER THAN ELECTRIC, OIL-BURNING LAMPS, LANTERNS, LAMP BURNERS, CANDLE HOLDERS, AND WICKS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed June 28, 1922. Serial No. 166,207. PUBLISHED JANUARY 30, 1923.

167,529. GAS, COAL, OIL, AND GASOLINE STOVES. AMERICAN STOVE COMPANY, St. Louis, Mo.
Filed June 28, 1922. Serial No. 166,163. PUBLISHED JANUARY 2, 1923.

167,530. BURNERS FOR LIQUID FUEL. SCARAB OIL BURNING COMPANY, LIMITED, London, England.
Filed June 24, 1922. Serial No. 166,019. PUBLISHED JANUARY 2, 1923.

167,531. GASOLINE, NAPHTHA, KEROSENE, FUEL OILS, MOTOR OILS, DISTILLATES, GAS OILS, AND PETROLEUM OILS. HENRY H. CROSS COMPANY, Chicago, Ill.
Filed January 8, 1923. Serial No. 174,294. PUBLISHED FEBRUARY 27, 1923.

167,532. MATTRESSES. NEW ENGLAND FIBRE MILLS, Derry, N. H.
Filed November 20, 1922. Serial No. 172,287. PUBLISHED JANUARY 30, 1923.

167,533. MATTRESSES. NEW ENGLAND FIBRE MILLS, Derry, N. H.
Filed November 20, 1922. Serial No. 172,285. PUBLISHED JANUARY 30, 1923.

167,534. RACKS FOR SUPPORTING BARRELS AND THE LIKE. ECONOMY ENGINEERING COMPANY, Chicago, Ill.
Filed November 15, 1922. Serial No. 172,038. PUBLISHED JANUARY 30, 1923.

167,535. PAINTS (READY MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. DETROIT WHITE LEAD WORKS, Detroit, Mich.
Filed November 14, 1922. Serial No. 171,985. PUBLISHED FEBRUARY 13, 1923.

167,536. BUTTONS NOT OF PRECIOUS METAL. HUNTINGTON RUBBER MILLS, Portland, Oreg.
Filed November 13, 1922. Serial No. 171,920. PUBLISHED JANUARY 30, 1923.

167,537. LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed November 11, 1922. Serial No. 171,876. PUBLISHED JANUARY 30, 1923.

167,538. PICTURE FRAMES. BENJAMIN PROCTOR, Jr., Boston, Mass.
Filed November 7, 1922. Serial No. 171,707. PUBLISHED JANUARY 30, 1923.

167,539. RADIO APPARATUS. THE C. D. TUSKA COMPANY, Hartford, Conn.
Filed October 23, 1922. Serial No. 171,109. PUBLISHED JANUARY 23, 1923.

167,540. PERFORATED PATTERNS USED FOR STENCILING DESIGNS TO BE EMBROIDERED. EMIL ENZLER, New York, N. Y.
Filed October 17, 1922. Serial No. 170,812. PUBLISHED JANUARY 30, 1923.

167,541. ELECTRICAL MEDICAL INSTRUMENT. DR. ALBERT ABRAMS, San Francisco, Calif.
Filed October 16, 1922. Serial No. 170,744½. PUBLISHED FEBRUARY 27, 1923.

167,542. SOAP. COLGATE & COMPANY, Jersey City, N. J.
Filed October 14, 1922. Serial No. 170,710. PUBLISHED JANUARY 23, 1923.

167,543. MONTHLY PUBLICATION. HUBERT M. HARRISON, Wichita Falls, Tex.
Filed October 13, 1922. Serial No. 170,684. PUBLISHED JANUARY 30, 1923.

167,544. METAL CLEANER AND POLISH. GRADY MFG. CO., Long Island City, N. Y.
Filed October 11, 1922. Serial No. 170,583. PUBLISHED JANUARY 2, 1923.

167,545. CHILDREN'S SLEDS. THE FAIR, Chicago, Ill.
Filed October 11, 1922. Serial No. 170,573. PUBLISHED JANUARY 30, 1923.

167,546. ASPHALT ROOFING SOLD IN ROLLS. JOHN W. MOORE, doing business as Felt Paper Company, Rowlandville, Md.
Filed October 6, 1922. Serial No. 170,398. PUBLISHED JANUARY 9, 1923.

167,547. ASPHALT ROOFING SOLD IN ROLLS. JOHN W. MOORE, doing business as Felt Paper Company, Rowlandville, Md.
Filed October 6, 1922. Serial No. 170,397. PUBLISHED JANUARY 9, 1923.

167,548. CERTAIN NAMED COMBS. NOYES COMB COMPANY, Binghamton, N. Y.
Filed October 4, 1922. Serial No. 170,306. PUBLISHED JANUARY 30, 1923.

167,549. SOAPS. HARRAL SOAP CO., INC., Brooklyn, N. Y.
Filed October 4, 1922. Serial No. 170,290. PUBLISHED JANUARY 2, 1923.

167,550. ROUGE AND FACE POWDER IN COMPACT FORM. V. VIVAUDOU, INC., New York, N. Y.
Filed October 2, 1922. Serial No. 170,229. PUBLISHED JANUARY 30, 1923.

167,551. SOAP. WARREN SOAP MANUFACTURING COMPANY, Boston, Mass.
Filed February 1, 1922. Serial No. 158,740. PUBLISHED MARCH 28, 1922.

167,552. MIXED FEED MANUFACTURED FROM KAFFIR CORN, MILO MAIZE, AND WHEAT BRAN. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed June 19, 1922. Serial No. 165,680. PUBLISHED DECEMBER 12, 1922.

167,553. CERTAIN NAMED MEDICINAL PREPARATIONS. LOUIS ROMANIK, doing business as The Le Roy Medicine Company, Milwaukee, Wis.
Filed June 17, 1922. Serial No. 165,637. PUBLISHED DECEMBER 26, 1922.

167,554. MEDICINAL PREPARATION FOR THE TREATMENT OF HAY FEVER, ROSE COLDS, AND CATARRHAL COLDS. THE H. F. CHEMICAL COMPANY, Washington, D. C.
Filed June 16, 1922. Serial No. 165,590. PUBLISHED DECEMBER 26, 1922.

167,555. LAXATIVE HERB TEAS AND MEDICINES IN LIQUID AND TABLET FORM FOR THE TREATMENT OF DISORDERS OF THE STOMACH, LIVER, KIDNEYS, AND INTESTINES. ELECTRONIC REMEDY CO., Chicago, Ill.
Filed June 15, 1922. Serial No. 165,538. PUBLISHED JANUARY 2, 1923.

167,556. A RELIEF FOR CERTAIN NAMED AILMENTS. DR. BEN F. NEWTON, Albany, Ala.
Filed June 13, 1922. Serial No. 165,457. PUBLISHED DECEMBER 26, 1922.

167,557. WHITE WYANDOTTE CHICKENS AND EGGS FOR HATCHING PURPOSES. ORSON R. HUTCHISON, Arlington, Iowa.
Filed June 13, 1922. Serial No. 165,443. PUBLISHED DECEMBER 12, 1922.

167,558. PREPARED PASTRY FLOUR. FLAKO PRODUCTS CORPORATION, New Brunswick, N. J.
Filed June 13, 1922. Serial No. 165,440. PUBLISHED DECEMBER 12, 1922.

167,559. SALVE FOR BURNS, SCALDS, AND SUNBURN. RAFFAELE GARBOLA, New York, N. Y.
Filed June 10, 1922. Serial No. 165,284. PUBLISHED JANUARY 2, 1923.

167,560. GERMICIDE. BORO CHEMICAL CO., INC., Binghamton, N. Y.
Filed June 10, 1922. Serial No. 165,267. PUBLISHED DECEMBER 26, 1922.

167,561. AUTOMOBILE CLEANING PREPARATION. ADAM L. FAWCETT, doing business as Fawcett Chemical Company, Los Angeles, Calif.
Filed July 3, 1922. Serial No. 166,445. PUBLISHED DECEMBER 26, 1922.

167,562. INSULATING MATERIAL IN SHEET FORM MADE OF WOOD AND POSSESSING HEAT AND COLD RESISTING AND SOUND-DEADENING PROPERTIES. WOOD CONVERSION COMPANY, Cloquet, Minn.
Filed August 3, 1922. Serial No. 167,790. PUBLISHED JANUARY 9, 1923.

167,563. HAIR TONIC AND DANDRUFF REMEDY. OTTO KARL QUAST, doing business as The Nix-Lix Co., Spokane, Wash.
Filed August 3, 1922. Serial No. 167,783. PUBLISHED JANUARY 30, 1923.

167,564. OIL STOVES. THE VAPO STOVE COMPANY, Lima, Ohio.
Filed August 2, 1922. Serial No. 167,743. PUBLISHED JANUARY 30, 1923.

167,565. CATHARTIC. HAROLD C. WATKINS, doing business as Watkins Chemical Company, Scranton, Pa.
Filed August 1, 1922. Serial No. 167,700. PUBLISHED JANUARY 30, 1923.

167,566. PREPARATIONS USED AS HYPNOTICS. MERCK & CO., New York, N. Y.
Filed August 1, 1922. Serial No. 167,685. PUBLISHED JANUARY 9, 1923.

167,567. HANDSOAP POWDER, HANDSOAP PASTE, AND CARBOLATED SOAP PASTE. PRECISION METAL WORKERS, Chicago, Ill.
Filed July 31, 1922. Serial No. 167,648. PUBLISHED DECEMBER 26, 1922.

167,568. LUBRICATING OIL. BOSTON HARBOR OIL COMPANY, Boston, Mass.
Filed July 26, 1922. Serial No. 167,379. PUBLISHED DECEMBER 19, 1922.

167,569. STEAM AND HOT-WATER HEATING BOILERS. BIRCHFIELD BOILER COMPANY, Tacoma, Wash.
Filed July 17, 1922. Serial No. 166,974. PUBLISHED JANUARY 2, 1923.

167,570. HAIR TONIC. ALEXANDER P. ELIAVES, doing business as A. Louis Manufacturing Co., Washington, D. C.
Filed July 15, 1922. Serial No. 166,940. PUBLISHED JANUARY 2, 1923.

167,571. SHEETING MADE FROM NITROCELLULOSE COMPOUNDS. BACHMANN BROS., Philadelphia, Pa.
Filed July 15, 1922. Serial No. 166,931. PUBLISHED JANUARY 9, 1923.

167,572. STEAM BOILERS. J. S. SCHOFIELD'S SONS CO., Macon, Ga.
Filed July 10, 1922. Serial No. 166,719. PUBLISHED JANUARY 30, 1923.

167,573. SAFETY PINS AND TOILET PINS, SNAP FASTENERS, AND HOOKS AND EYES. FRANCIS MANUFACTURING CO., Niagara Falls, N. Y.
Filed July 10, 1922. Serial No. 166,674. PUBLISHED DECEMBER 26, 1922.

167,574. DRAIN SOLVENTS. BUFFALO SPECIALTY CO., Buffalo, N. Y.
Filed July 10, 1922. Serial No. 166,630. PUBLISHED JANUARY 9, 1923.

167,575. CERTAIN NAMED AUTOMOBILE PARTS AND ACCESSORIES. X-RAY INCUBATOR COMPANY, Des Moines, Iowa.
Filed July 8, 1922. Serial No. 166,616. PUBLISHED JANUARY 2, 1923.

167,576. FIRE-CLAY GOODS—NAMELY, BRICK AND TILE DRAINPIPES. GARTCRAIG FIRE CLAY COMPANY, LIMITED, Glasgow, Scotland.
Filed July 7, 1922. Serial No. 166,550. PUBLISHED JANUARY 9, 1923.

167,577. LIQUID WOOD CLEANERS AND THE LIKE FOR PREPARING WOODEN SURFACES. CHARLES M. ANDERSEN, doing business as Andersen Specialty Co., Chicago, Ill.
Filed July 7, 1922. Serial No. 166,546. PUBLISHED JANUARY 23, 1923.

167,578. HOT-WATER HEATER. CENTRAL RADIATOR COMPANY, New York, N. Y.
Filed July 6, 1922. Serial No. 166,523. PUBLISHED JANUARY 2, 1923.

167,579. PREPARATION FOR STRAIGHTENING HAIR. E. BURNHAM INC., Chicago, Ill.
Filed July 5, 1922. Serial No. 166,496. PUBLISHED JANUARY 2, 1923.

167,580. ANTISEPTIC HEALING OINTMENT. GEO. JACK, Buffalo, N. Y.
Filed July 3, 1922. Serial No. 166,455. PUBLISHED JANUARY 30, 1923.

167,581. RADIO SETS AND PARTS THEREOF. AMERICAN RADIO & ELECTRIC CO., New York, N. Y.
Filed September 18, 1922. Serial No. 169,572. PUBLISHED JANUARY 23, 1923.

167,582. DENTIFRICE. RAY O. LEE, Kansas City, Mo.
Filed October 2, 1922. Serial No. 170,202. PUBLISHED JANUARY 30, 1923.

167,583. HAIR DRESSING IN LIQUID FORM TO BE RUBBED INTO THE HAIR AND SCALP. WAUKEE COMPANY, Indianapolis, Ind.
Filed September 30, 1922. Serial No. 170,168. PUBLISHED JANUARY 30, 1923.

167,584. TOOTH PASTE AND TOOTH POWDER. LOUIS PHILIPPE, INC., New York, N. Y.
Filed September 30, 1922. Serial No. 170,153. PUBLISHED JANUARY 30, 1923.

167,585. ROOFING CEMENT. LOUIS F. GUERRE, doing business as Louis F. Guerre & Co., New Orleans, La.
Filed September 30, 1922. Serial No. 170,136. PUBLISHED JANUARY 9, 1923.

167,586. SOAP. CERECEDO HNOS. & CO., SUCRS., San Juan, Porto Rico.
Filed September 30, 1922. Serial No. 170,122. PUBLISHED JANUARY 2, 1923.

167,587. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, FACE LOTION, FACE CREAM, AND ROUGE. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,085. PUBLISHED JANUARY 30, 1923.

167,588. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, FACE LOTION, FACE CREAM, AND ROUGE. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,084. PUBLISHED JANUARY 30, 1923.

167,589. CHEMICAL SUBSTANCE USED AS A WOOD PRESERVER. THE CREOLIN CO., Rahway, N. J.
Filed September 23, 1922. Serial No. 169,847. PUBLISHED JANUARY 9, 1923.

167,590. WOOD PANEL BOARD, USED FOR STATEROOM, CORRIDOR PARTITIONS, BULKHEADS, DINING SALON, SMOKING ROOM, AND COMPANIONWAY PANELING ON VESSELS. THE CHESTER T. SANDERSON CO. INC., New York, N. Y.
Filed September 22, 1922. Serial No. 169,828. PUBLISHED JANUARY 9, 1923.

167,591. CERTAIN NAMED RADIO APPARATUS. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed September 22, 1922. Serial No. 169,824. PUBLISHED JANUARY 30, 1923.

167,592. INSECTICIDES. SMITH MFG. CO., Utica, N. Y.
Filed September 21, 1922. Serial No. 169,786. PUBLISHED JANUARY 9, 1923.

167,593. TITLE OF ITS DAILY PUBLICATION. PRESS-UNION PUBLISHING CO., Atlantic City, N. J.
Filed September 21, 1922. Serial No. 169,779. PUBLISHED JANUARY 30, 1923.

167,594. TITLE OF ITS DAILY PUBLICATION. PRESS-UNION PUBLISHING CO., Atlantic City, N. J.
Filed September 21, 1922. Serial No. 169,778. PUBLISHED JANUARY 30, 1923.

167,595. RADIO TELEPHONE RECEIVERS AND RADIO SETS AND PARTS OF RADIO SETS—NAMELY, CRYSTALS, VARIOMETERS, RHEOSTATS, TRANSFORMERS, CONDENSERS, AND INSULATORS. TRIANGLE ELECTRO TRADING COMPANY, New York, N. Y.
Filed September 20, 1922. Serial No. 169,732. PUBLISHED JANUARY 23, 1923.

167,596. HEALING SALVE FOR ALL SWELLING AND CANCER. SOPHIE ABELS, Plainfield, N. J.
Filed September 20, 1922. Serial No. 169,696. PUBLISHED JANUARY 9, 1923.

167,597. A DRY CHEMICAL MIXTURE OR EFFERVESCENT SALT FOR CERTAIN NAMED USES. ABBEY EFFERVESCENT SALT COMPANY, INC., New York, N. Y.
Filed September 20, 1922. Serial No. 169,695. PUBLISHED FEBRUARY 6, 1923.

167,598. SHAMPOOS. EDWARD J. WATTS, San Francisco, Calif.
Filed September 18, 1922. Serial No. 169,659. PUBLISHED JANUARY 9, 1923.

167,599. COAL. THE SOUTHERN COAL & COKE CO., Cincinnati, Ohio.
Filed September 18, 1922. Serial No. 169,654. PUBLISHED JANUARY 9, 1923.

167,600. SOAP. BUSTER BROWN SOAP COMPANY, Indianapolis, Ind.
Filed September 18, 1922. Serial No. 169,574. PUBLISHED JANUARY 2, 1923.

167,601. ANTISEPTIC POWDER. HOWARD W. BAER, Atlantic City, N. J.
Filed June 9, 1922. Serial No. 165,224. PUBLISHED JANUARY 2, 1923.

167,602. CARBONIC-ACID GAS. COMPRESSED CARBONIC COMPANY, Baltimore, Md.
Filed June 6, 1922. Serial No. 165,063. PUBLISHED DECEMBER 26, 1922.

167,603. LIQUID POWDER ADAPTED FOR TOILET USE. JESSICA OGILVIE, doing business as Ogilvie Sisters, New York, N. Y.
Filed June 5, 1922. Serial No. 165,029. PUBLISHED DECEMBER 26, 1922.

167,604. MEDICATED CREAM FOR THE TREATMENT OF WRINKLES, ACNE, ECZEMA, AND ALL FORMS OF SKIN ERUPTIONS. OPAZEL LABORATORIES, INC., New York, N. Y.
Filed June 3, 1922. Serial No. 164,942. PUBLISHED DECEMBER 26, 1922.

167,605. EXTERNAL MEDICINE FOR APPLICATION TO BOILS, CARBUNCLES, ABCESSES, AND LIKE AILMENTS. MRS. MAY BELLE TRAVIS, Peekskill, N. Y.
Filed May 17, 1922. Serial No. 164,014. PUBLISHED JANUARY 23, 1923.

167,606. INSULATORS FOR HIGH-TENSION INSULATION. LOCKE INSULATOR CORPORATION, Baltimore, Md.
Filed May 8, 1922. Serial No. 163,526. PUBLISHED FEBRUARY 20, 1923.

167,607. AUTOMOBILE STEERING CONTROLLERS ADAPTED TO AID IN STABILIZING THE STEERING CONTROL OF AUTOMOBILES. JOSEPH HOFFMAN, Philadelphia, Pa.
Filed January 16, 1922. Serial No. 157,095. PUBLISHED DECEMBER 26, 1922.

167,608. SUN SHIELDS FOR AUTOMOBILES. HENRY J. DOYLE, East Orange, N. J.
Filed January 6, 1922. Serial No. 157,557. PUBLISHED OCTOBER 24, 1922.

167,609. ALL FABRIC ACCESSORIES MADE FOR AUTOMOBILES. HODES-ZINK MFG. CO., Fremont, Ohio.
Filed December 28, 1921. Serial No. 157,221. PUBLISHED DECEMBER 19, 1922.

167,610. NEW AND SECOND-HAND FURNITURE. CLARANCE I. BAKER, Indianapolis, Ind.
Filed October 22, 1921. Serial No. 154,426. PUBLISHED OCTOBER 10, 1922.

167,611. FUSED QUARTZ. THE EXOLON COMPANY, Boston, Mass.
Filed October 5, 1921. Serial No. 153,758. PUBLISHED DECEMBER 19, 1922.

167,612. PREPARATION FOR NEURALGIA, NEURITIS, HEADACHE, AND COLDS. AROBIN DRUG COMPANY, Milwaukee, Wis.
Filed September 7, 1921. Serial No. 152,668. PUBLISHED JANUARY 2, 1923.

167,613. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed July 2, 1921. Serial No. 149,954. PUBLISHED JANUARY 2, 1923.

167,614. PREPARED ROOFING. THE FEDERAL ASBESTOS CO., Milwaukee, Wis.
Filed June 11, 1921. Serial No. 148,991. PUBLISHED JANUARY 2, 1923.

167,615. NEWSPAPER ARTICLES. THE TRIBUNE COMPANY, Chicago, Ill.
Filed April 30, 1921. Serial No. 147,055. PUBLISHED JANUARY 31, 1922.

167,616. RATTAN PRODUCTS—NAMELY, RATTAN CHAIR CANE, RATTAN REED, AND RATTAN CORE. WILLIAM M. MILNE, San Francisco, Calif.
Filed April 18, 1921. Serial No. 146,325. PUBLISHED DECEMBER 19, 1922.

167,617. SHELLAC. THE EDWARD J. SHANNON COMPANY, Cincinnati, Ohio.
Filed January 10, 1921. Serial No. 142,038. PUBLISHED DECEMBER 19, 1922.

167,618. PRINTED BOOKS ISSUED IN CONTINUING SERIES. THE JOHN C. WINSTON CO., Philadelphia, Pa.
Filed September 4, 1920. Serial No. 136,863. PUBLISHED JANUARY 2, 1923.

167,619. PRINTED BOOKLETS AND PAMPHLETS PUBLISHED MONTHLY. INTERNATIONAL UNION OF TIMBER WORKERS, Seattle, Wash.
Filed January 5, 1920. Serial No. 126,802. PUBLISHED DECEMBER 26, 1922.

167,620. PHONOGRAPHS, PHONOGRAPH RECORDS, PHONOGRAPH NEEDLES, AND DISK-RECORD ALBUMS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 24, 1919. Serial No. 125,254. PUBLISHED JANUARY 10, 1922.

167,621. OINTMENT FOR CROUP, COLDS, PNEUMONIA, BRONCHITIS, AND SORE THROAT. GEORGE HOLDEN, Quenemo, Kans.
Filed August 2, 1922. Serial No. 167,721. PUBLISHED JANUARY 2, 1923.

167,622. GRANITE BLOCKS. DOUGLAS M. BARCLAY, doing business as Standard Granite Company, Barre, Vt.
Filed August 3, 1922. Serial No. 167,761. PUBLISHED DECEMBER 19, 1922.

167,623. MEDICINAL PREPARATION FOR COUGHS, COLDS, BRONCHITIS, AND AILMENTS OF THE THROAT AND LUNGS AND FOR BUILDING UP THE BODY TISSUES. ARMAND J. BRISSETTE, Webster, Mass.
Filed August 2, 1922. Serial No. 167,707. PUBLISHED DECEMBER 26, 1922.

167,624. DYESTUFFS, COLORS, AND PIGMENTS. E. C. KLIPSTEIN & SONS COMPANY, New York, N. Y.
Filed August 1, 1922. Serial No. 167,679. PUBLISHED DECEMBER 26, 1922.

167,625. PREPARATION USED AS AN ANTISPASMODIC. MERCK & CO., New York, N. Y.
Filed August 1, 1922. Serial No. 167,684. PUBLISHED DECEMBER 26, 1922.

167,626. TALCUM POWDER. TALCUM PUFF CO. INC., Asheville, N. C., and Brooklyn, N. Y.
Filed August 1, 1922. Serial No. 167,695. PUBLISHED DECEMBER 26, 1922.

167,627. WHEAT FLOUR. THE NORTHWESTERN CONSOLIDATED MILLING COMPANY, Minneapolis, Minn.
Filed July 27, 1922. Serial No. 167,483. PUBLISHED DECEMBER 19, 1922.

167,628. LAXATIVE AND TONIC COMPOUNDED FROM HERBS AND USED ESPECIALLY FOR STOMACH TROUBLES, CONSTIPATION, GENERAL DEBILITY, AND TROUBLES RESULTING THEREFROM. A. P. STANTON MEDICAL CO., West Hoboken, N. J.
Filed July 13, 1922. Serial No. 166,859. PUBLISHED JANUARY 2, 1923.

167,629. LINIMENT FOR EXTERNAL APPLICATION FOR THE RELIEF OF RHEUMATISM. NOAH SCHLOSINGER, doing business as Noah Schlosinger Co., Streeter, N. Dak.
Filed July 13, 1922. Serial No. 166,855. PUBLISHED JANUARY 2, 1923.

167,630. REMEDY FOR CORNS AND BUNIONS. NOAH SCHLOSINGER, doing business as Noah Schlosinger Co., Streeter, N. Dak.
Filed July 13, 1922. Serial No. 166,854. PUBLISHED JANUARY 2, 1923.

167,631. AGGLOMERATES OF SOLID ALDEHYDE, SOLID METHYL ALCOHOL, ETHYL ALCOHOL FOR HEATING AND LIGHTING PURPOSES. ELEKTRIZITATSWERK LONZA, Gampel and Basel, Switzerland.
Filed July 12, 1922. Serial No. 166,778. PUBLISHED JANUARY 2, 1923.

167,632. HAIR WAVERS. ROBBIE GORDONS, Chicago, Ill.
Filed July 10, 1922. Serial No. 166,681. PUBLISHED NOVEMBER 14, 1922.

167,633. PREPARATIONS FOR PYORRHEA—NAMELY, ASTRINGENT TOOTH PASTE AND MOUTH WASH. J. C. CLARK, Omaha, Nebr.
Filed July 10, 1922. Serial No. 166,648. PUBLISHED DECEMBER 26, 1922.

167,634. PLASTIC CALCINED MAGNESITE. AMERICAN MINERAL PRODUCTION COMPANY, Chicago, Ill.
Filed July 10, 1922. Serial No. 166,620. PUBLISHED DECEMBER 19, 1922.

167,635. INSECTICIDES. HIGHTSTOWN HARDWARE COMPANY, Hightstown, N. J.
Filed July 8, 1922. Serial No. 166,596. PUBLISHED JANUARY 2, 1923.

167,636. EYEDROPS. PANAGIOTA KEKAS, New York, N. Y.
Filed July 8, 1922. Serial No. 166,600. PUBLISHED DECEMBER 26, 1922.

167,637. PREPARATION FOR PAINS, BURNS, BRUISES, AND CANCER. JOSEPH J. MARTINKA, Newark, N. J.
Filed July 8, 1922. Serial No. 166,603. PUBLISHED JANUARY 2, 1923.

167,638. TABLE SALT. WORCESTER SALT COMPANY, New York, N. Y.
Filed July 8, 1922. Serial No. 166,615. PUBLISHED DECEMBER 26, 1922.

167,639. SOLE LEATHER, WHOLE AND CUT STOCK. GUTTERMAN-STRAUSS COMPANY, Boston, Mass.
Filed August 9, 1922. Serial No. 167,980. PUBLISHED DECEMBER 19, 1922.

167,640. LINIMENT FOR RHEUMATISM, LUMBAGO, GOUT, AND COLDS. CONRAD L. SCHEELE, New York, N. Y.
Filed August 8, 1922. Serial No. 167,946. PUBLISHED JANUARY 2, 1923.

TRADE-MARK REGISTRATIONS RENEWED.

22,656. PAINTS, STAINS, VARNISHES, AND SIMILAR ARTICLES. Registered March 14, 1893. HARRISON BROS. & CO., Philadelphia, Pa. Renewed March 14, 1923, to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware, assignee.

22,896. NEWSPAPERS. Registered May 2, 1893. ARMY AND NAVY REGISTER PUBLISHING CO. Renewed May 2, 1923, to Army and Navy Publishing Co., Inc., Washington, D. C., assignee.

23,325. BUILDERS' HARDWARE, INCLUDING LOCKS AND LATCHES. Registered July 4, 1893. READING HARDWARE COMPANY, Reading, Pa. Renewed July 4, 1923.

LABELS

REGISTERED MAY 1, 1923.

25,869.—*Title:* BEATON HOSE. For Hosiery. J. R. BEATON COMPANY, INC., New York, N. Y. Published January 15, 1923.

25,870.—*Title:* TRAVELERS. For Dried Raisins. ALICE M. BIDDLE, doing business as Carrolton Packing Co., Hanford, Calif. Published October 10, 1922.

25,871.—*Title:* SKOOKUM BRAND. For Tin Cans Containing Shrimp. BILOXI PACKING AND TRADING COMPANY, INC., Biloxi, Miss. Published September 12, 1922.

25,872.—*Title:* B & M. For Lima Beans. BURNHAM & MORRILL CO., Portland, Me. Published February 1, 1923.

25,873.—*Title:* B & M. For Fish Flakes. BURNHAM & MORRILL CO., Portland, Me. Published February 1, 1923.

25,874.—*Title:* GERMEX. For Germicidal Cleansing and Polishing Materials. CLEVELAND CHEMICAL CORPORATION, Cleveland, Ohio. Published March 15, 1923.

25,875.—*Title:* DRANO. For a Chemical for Cleansing Drains, Sinks, Washbowls, Bathtubs, Flush Bowls, Traps, Toilet Bowls, Stationary Washtubs, Waste Pipes, and Lavatories. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio. Published January 5, 1923.

25,876.—*Title:* FLEXO THE ORIGINAL LIFE GIVING BELT TREATMENT HIGH STRENGTH COMBINATION OF TANNAGE OILS. For Dressing Oils Suitable for Softening and Preserving Articles of Leather and Similar Substances. THE FLEXO COMPANY, Fredericksburg, Va. Published March 26, 1923.

25,877.—*Title:* CURIOSITY BOX. For Dried Fruits. DANA K. GIBBS, doing business as Willcox & Gibbs Packing Company, Clovis, Calif. Published January 1, 1922.

25,878.—*Title:* DAN. W. HERSHEY'S FAMOUS SPECIAL DRESSING FOR ALL KINDS OF SALADS. For Salad Dressing. DANIEL W. HERSHEY, Dayton, Ohio. Published March 1, 1923.

25,879.—*Title:* BLACK MONK. For Ice-Cream Cones. WALTER J. HIRSCH COMPANY, Chicago, Ill. Published June 22, 1922.

25,880.—*Title:* JOHNSON'S SANE NUTS — THEY'RE MORE REFINED. For Salted-Nut Containers. JOHNSON NUT COMPANY, Minneapolis, Minn. Published December 28, 1922.

25,881.—*Title:* COMET. For Golf Balls. JORDAN MARSH COMPANY, Boston, Mass. Published February 1, 1923.

25,882.—*Title:* DAISY. For Bread. LILY BAKING COMPANY, Muskogee, Okla. Published March 29, 1923.

25,883.—*Title:* BERBER. For Dates. BURDETTE K. MARVIN, doing business as Marvin Date Co., Riverside, Calif. Published January 5, 1923.

25,884.—*Title:* WHITE PEARL BRAND. For Cartons for Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Macon Creamery Company, Macon, Miss. Published March 1, 1923.

25,885.—*Title:* MAYFLOWER. For Cartons for Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Pickerington Creamery, Pickerington, Ohio. Published March 13, 1923.

25,886.—*Title:* SELECT BRAND. For Cartons for Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Mid-West Creamery, Ponca City, Okla. Published March 15, 1923.

25,887.—*Title:* NYANZA. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,888.—*Title:* AVALON. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,889.—*Title:* PIUTE. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,890.—*Title:* ALPINE. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,891.—*Title:* ARGONAUT. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,892.—*Title:* SOUTHLAND. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,893.—*Title:* APARTMENT. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,894.—*Title:* BEACH. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,895.—*Title:* AIRCRAFT. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,896.—*Title:* GOLDEN. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS CO., San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,897.—*Title:* COLLEGIAN. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,898.—*Title:* WESTLAND. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,899.—*Title:* GOBLIN. For Toilet Tissue Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif., and Carthage, N. Y. Published December 30, 1922.

25,900.—*Title:* NORMEDAL. For Wrapper for Toilet-Paper Rolls. NORTHERN PAPER MILLS, Green Bay, Wis. Published January 2, 1923.

25,901.—*Title:* PERCY PIERCE PACKAGE. For Cartons Containing Ice Cream. PERCY PIERCE, Philadelphia, Pa. Published February 15, 1923.

25,902.—*Title:* P-B. For Soap Flakes. PROUTY-BOWLER SOAP CO., Des Moines, Iowa. Published April 7, 1923.

25,903.—*Title:* SUPERGLOSS. For Auto and Furniture Polish. REALNEED PRODUCTS CO., Harrisburg, Pa. Published October 24, 1922.

25,904.—*Title:* SAN MARCO. For Macaroni. ROMAN MACARONI CO., Long Island City, N. Y. Published December 1, 1922.

25,905.—*Title:* ZA-REX. For Bottles Containing a Fruit Sirup for Making Beverages. ZA-REX FOOD PRODUCTS INC., Boston, Mass. Published February 14, 1923.

PRINTS

REGISTERED MAY 1, 1923.

6,676.—*Title:* GET IT NOW. For Germicidal Cleansing and Polishing Materials. CLEVELAND CHEMICAL CORPORATION, Cleveland, Ohio. Published March 15, 1923.

6,677.—*Title:* MONARCH TEA. For Tea. REID, MURDOCH & Co., Chicago, Ill. Published January 15, 1923.

6,678.—*Title:* MONARCH. For Tea, Coffee, and Cocoa. REID, MURDOCH & Co., Chicago, Ill. Published January 15, 1923.

6,679.—*Title:* MONARCH COFFEE. For Coffee. REID, MURDOCH & Co., Chicago, Ill. Published January 15, 1923.

6,680.—*Title:* MONARCH QUALITY. For Groceries. REID, MURDOCH & Co., Chicago, Ill. Published February 8, 1923.

6,681.—*Title:* BETTER WHITE DUCK CLOTHING. For White Duck Clothing. THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Published March 31, 1923.

6,682.—*Title:* SPORT TROUSERS. For White Duck Clothing. THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Published March 31, 1923.

6,683.—*Title:* THE BEAUTY. For Gas Ranges. GEO. D. ROPER CORPORATION, Rockford, Ill. Published January 28, 1923.

6,684.—*Title:* COMET RICE. For Rice. SEABOARD RICE MILLING COMPANY, Galveston, Tex. Published March 3, 1923.

6,685.—*Title:* COMET RICE. For Rice. SEABOARD RICE MILLING COMPANY, Galveston, Tex. Published March 3, 1923.

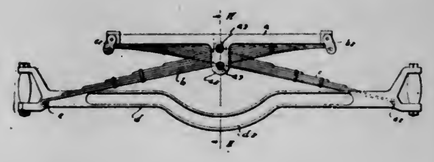
6,686.—*Title:* COMET RICE. For Rice. SEABOARD RICE MILLING COMPANY, Galveston, Tex. Published March 3, 1923.

6,687.—*Title:* COMET RICE. For Rice. SEABOARD RICE MILLING COMPANY, Galveston, Tex. Published March 3, 1923.

REISSUES.

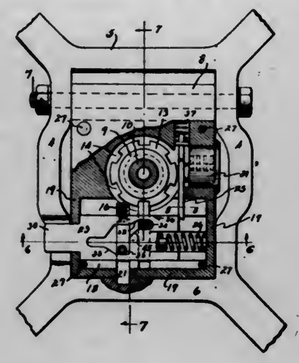
MAY 1, 1923.

15,586. VEHICLE SPRING. FRANK V. COOKE, Detroit, Mich., assignor to Karl B. Goddard, Detroit, Mich. Filed Nov. 30, 1921. Serial No. 518,989. Original No. 1,344,792, dated June 29, 1920, Serial No. 326,445, filed Sept. 26, 1919. 8 Claims. (Cl. 267—36.)



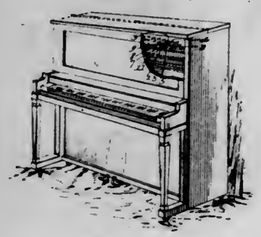
1. The combination of a vehicle body, an axle, a spring pivoted to one side of the body and to the end of the axle farthest from said side, a second spring pivoted to the other side of the body and to the other end of said axle, a forked member depending from said body adapted to embrace said springs in such a manner as to permit movement of the springs longitudinally, but to restrain movement laterally and vertically within said forked member, said forked member adapted to form an upper fulcrum support for said springs.

15,587. TILTING LOCKING STEERING WHEEL. EDWARD N. PAGELSEN, Detroit, Mich., assignor to Edward H. Vincent, Detroit, Mich. Filed Nov. 9, 1922. Serial No. 599,941. Original No. 1,365,846, dated Jan. 18, 1921, Serial No. 334,481, filed Oct. 30, 1919. 16 Claims. (Cl. 74—33.)



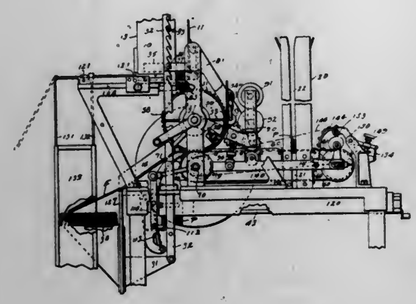
7. In combination with a steering shaft and a head rotatably mounted thereon, a steering wheel structure movable on said head, and means by which the shaft and the wheel structure may be simultaneously or consecutively locked to said head.

15,588. SUPPORT FOR MOTH-REPELLENT HOLDERS. SAMUEL HOWARD BISHOP and JOHN QUEEN SLYE, Washington, D. C. Filed June 22, 1922. Serial No. 570,262. Original No. 1,344,318, dated June 22, 1920, Serial No. 318,356, filed Aug. 18, 1919. 13 Claims. (Cl. 299—24.)



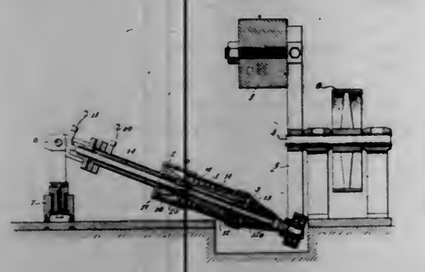
1. A moth repellent container, and a support therefor selectively engageable telescopically over the tuning pins of a piano.

15,589. ADDRESS-PRINTING MACHINE. CLIFTON CHISHOLM, Cleveland, Ohio, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 24, 1920. Serial No. 426,305. Original No. 1,285,622, dated Nov. 26, 1918, Serial No. 126,829, filed Oct. 21, 1916. 21 Claims. (Cl. 101—54.)



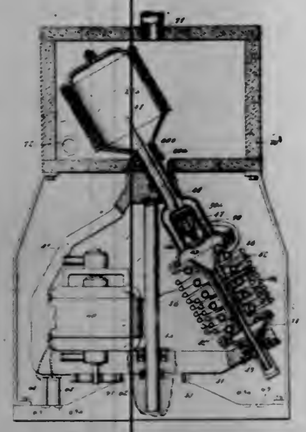
1. In an address printing machine, the combination of a conveyer having spaced lugs for feeding address plates, a driving wheel for said conveyer, a rotary platen adapted to coact with address plates fed by the conveyer and having a periphery which is longer than the periphery of said driving wheel and a multiple thereof, said lugs being spaced a distance apart proportional to the periphery of said driving wheel, and means controllable at will to vary the number of address plates fed for each rotation of the platen.

15,590. COMPRESSOR. JAY GRANT DE REMER, Greenwich, Conn. Filed Mar. 23, 1923. Serial No. 627,216. Original application filed Jan. 16, 1918, Serial No. 212,113. Divided and application filed Dec. 9, 1919, Serial No. 343,471. Original No. 1,373,175, dated Mar. 29, 1921. 15 Claims. (Cl. 230—12.)



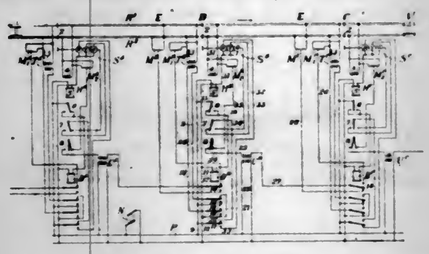
2. In an apparatus for the purpose described, the combination of a shaft-like support, a helically formed conduit of decreasing volume per turn carried by said support in an inclined position, the larger end of the helix being at a less distance from the axis of said support than the smaller end thereof, means for supplying liquid and fluid to be compressed to the larger end of the conduit, means for conducting compressed fluid from the smaller end of said conduit, and means for revolving the conduit about the axis of the support.

15,591. REFRIGERATING APPARATUS. JAY GRANT DE REMER, Greenwich, Conn. Filed Mar. 23, 1923. Serial No. 627,217. Original No. 1,373,174, dated Mar. 29, 1921, Serial No. 212,113, filed Jan. 16, 1918. 21 Claims. (Cl. 62—115.)



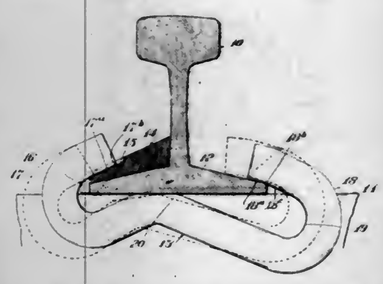
21. The combination of a frame rotatable about an axis, a refrigerant compressor comprising helical and return conduits containing a circulating body of compressing liquid and mounted on said frame with the axis of the helix disposed at an acute angle to said rotational axis, supply and return refrigerant tubes extending from said compressor conduits toward and beyond the said rotational axis, an expansion device connected to the ends of said tubes and means in the supply tube to regulate the flow of refrigerant to the expansion device.

15,592. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1922. Serial No. 555,640. Original No. 1,351,771, dated Sept. 7, 1920, Serial No. 263,607, filed Nov. 21, 1918. 26 Claims. (Cl. 246—38.)



10. Railway traffic controlling apparatus comprising track rails, means for supplying two alternating signaling currents thereto one of which flows in opposite directions in the two rails and the other of which flows in the same direction in the two rails, a vehicle, two soft iron cores thereon located over the two rails respectively and disposed transversely with respect to the rails; a circuit on the vehicle including a coil on each of said cores which coils are so connected in the circuit that the potentials induced in said coils by currents flowing in the same direction in said rails are additive, a second circuit on the vehicle including another coil on each core which coils are so connected in the circuit that the potentials induced in the coils by currents flowing in opposite directions in the track rails are additive, and vehicle governing means controlled by the currents in said two circuits.

15,593. RAIL ANCHOR. FRED A. POOR, Chicago, Ill., assignor to The B & M Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1923. Serial No. 625,144. Original No. 1,386,800, dated Aug. 9, 1921, Serial No. 349,689, filed Jan. 6, 1920. 40 Claims. (Cl. 238—324.)



1. A device for preventing longitudinal creep of railroad rails, comprising a body adapted to extend across the bottom face of a rail, jaws carried by said body and overlying the upper faces of the flanges at opposite sides of the rail, and a take-up block interposed between one of the jaws and the upper face of the adjacent flange serving upon a movement of the body and jaws transversely of the rail with respect to the block to cause the jaw engaging said block to move upwardly with respect to the upper face of the flange for tightening the anchor on the rail.

15,594. SIGNAL FOR VEHICLES. TIMOTHY B. POWERS, Brooklyn, N. Y., assignor, by mesne assignments, to Turn-O-Stop Manufacturing Corporation, Inc., New York, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,385. Original No. 1,334,047, dated Mar. 16, 1920, Serial No. 316,604, filed Aug. 11, 1919. 36 Claims. (Cl. 177—329.)

1. In a signaling apparatus, a casing, a plate hinged to one side of the casing, an actuating member connected with the plate to cause it to swing out of the casing and to retract it, a plate hinged to the outer edge of said plate, a link pivoted between the second plate and the casing, whereby when the first plate is swung outward the second plate will swing outward to a position in alinement with the first plate, and when the first plate is swung back to the casing the second

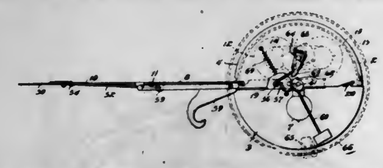
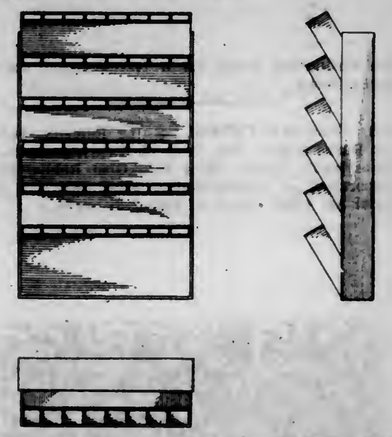


plate will be swung to a position adjacent the casing, and a lamp on the front of the casing normally surrounded and obscured by the two plates but exposed when the plates are swung outward into alinement.

DESIGNS.

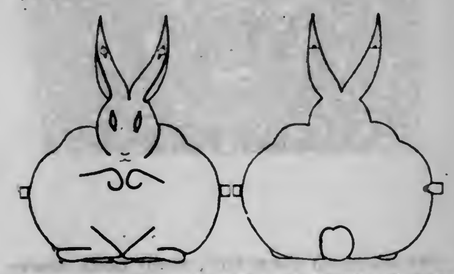
MAY 1, 1923.

62,269. PENCIL DISPLAY HOLDER. FRANK H. BECK, Larchmont, N. Y. Filed Sept. 21, 1921. Serial No. 502,308. Term of patent 7 years.



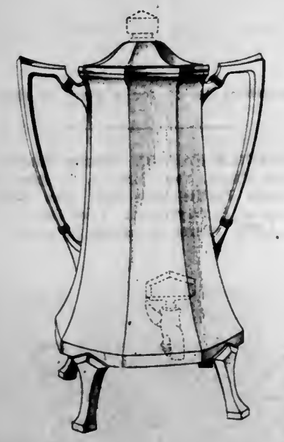
The ornamental design for a pencil display holder, as shown.

62,270. COMBINED BIB AND APRON OR SIMILAR ARTICLE. MARY D. BENSON, New York, N. Y. Filed Aug. 23, 1922. Serial No. 3,533. Term of patent 14 years.



The ornamental design for a combined bib and apron or similar article as shown.

62,271. URN. GEORGE E. CURTISS, New Britain, Conn., assignor to Landers, Frary & Clark, a Corporation of Connecticut. Filed Aug. 31, 1922. Serial No. 3,603. Term of patent 14 years.



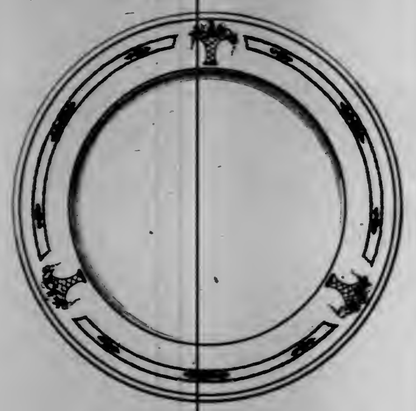
The ornamental design for an urn as shown.

62,272. EMBLEM, A BADGE, BROOCH, PIN, CUFF BUTTON, WATCH FOB, OR AN ARTICLE OF SIMILAR NATURE. CHARLES B. DYER, Indianapolis, Ind. Filed Nov. 20, 1922. Serial No. 4,346. Term of patent 7 years.



The ornamental design for an emblem, a badge, a brooch, a pin, a cuff button, a watch fob, or an article of similar nature, as shown.

62,273. PLATE OR SIMILAR ARTICLE. WILLIAM SAMUEL ENSION, New Rochelle, N. Y., assignor to Tiffin Products, Inc., Long Island City, a Corporation of New York. Filed Feb. 2, 1922. Serial No. 503. Term of patent 14 years.



The ornamental design for a plate or similar article as shown.

62,274. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,656. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,275. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,657. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,276. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,659. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,277. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,660. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,278. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,661. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,279. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,663. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,280. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,666. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,281. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,667. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,282. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,668. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,283. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,669. Term of patent 3½ years.



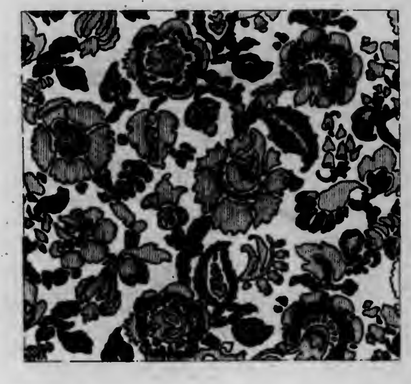
The ornamental design for a textile fabric, substantially as shown.

62,284. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,670. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown

62,285. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,671. Term of patent 3½ years.



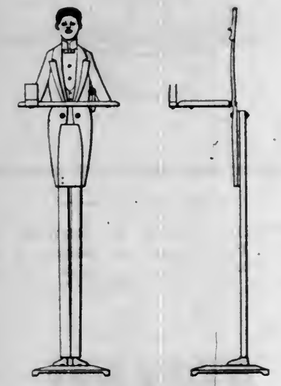
The ornamental design for a textile fabric, substantially as shown.

62,286. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,672. Term of patent 3½ years.



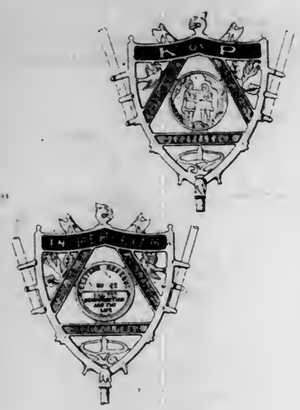
The ornamental design for a textile fabric, substantially as shown.

62,287. SMOKER STAND. FREDERICK E. HADERMANN, New York, N. Y. Filed Oct. 15, 1921. Serial No. 508,022. Term of patent 3½ years.



The ornamental design for smoker stand as shown and described.

62,288. COMBINED GRAVE MARKER AND FLAG HOLDER. GEORGE G. JONES, Cleveland, Ohio. Filed Nov. 30, 1921. Serial No. 519,014. Term of patent 7 years.



The ornamental design for a combined grave marker and flag holder substantially as shown in the drawings hereof.

62,289. BRUSH HOLDER. WALTER E. KEENE, Baltimore, Md. Filed June 11, 1921. Serial No. 476,944. Term of patent 3½ years.



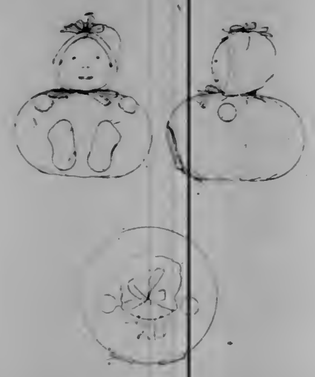
The ornamental design for a brush holder as shown.

62,290. TEXTILE FABRIC OR SIMILAR ARTICLE. HILDA KAJI, Philadelphia, Pa., assignor to Morris B. Leventhal, Philadelphia, Pa. Filed Nov. 18, 1921. Serial No. 516,210. Term of patent 7 years.



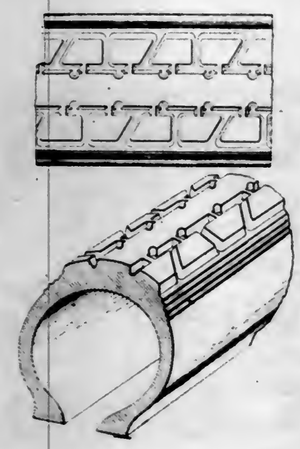
The ornamental design for a textile fabric or similar article, substantially as shown.

62,291. COMBINATION DOLL AND PIN CUSHION. PEARL LE DOUX, Oakland, Calif. Filed Nov. 20, 1922. Serial No. 4,348. Term of patent 3½ years.



The ornamental design for a combination doll and pin cushion substantially as shown.

62,292. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 1, 1922. Serial No. 3,266. Term of patent 14 years.



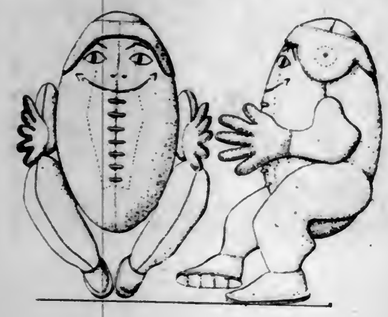
The ornamental design for a tire tread substantially as shown.

62,293. BADGE OR BUTTON. BURTON I. REED, Concord, N. H. Filed Jan. 25, 1922. Serial No. 361. Term of patent 3½ years.



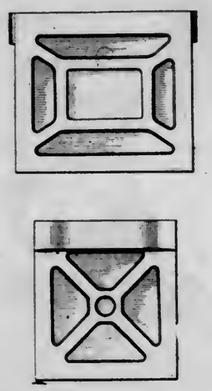
The ornamental design for a badge or button, as shown.

62,294. TOY FIGURE. MARY I. TOWNSEND, Seattle, Wash., assignor of two-thirds to William B. Van Valin, Los Angeles, Calif. Filed Aug. 11, 1922. Serial No. 3,351. Term of patent 7 years.



The ornamental design for a toy figure, as shown.

62,295. BATTERY JAR. WILLIAM W. WEITLING, College Point, N. Y. Filed Mar. 8, 1922. Serial No. 1,077. Term of patent 14 years.



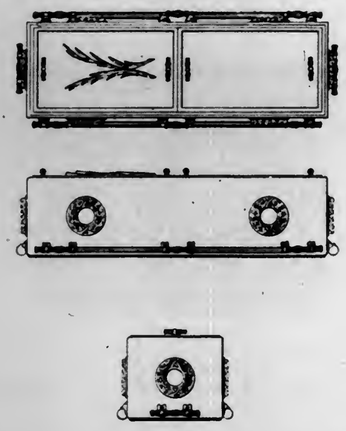
The ornamental design for a battery jar, as shown

62,296. DOLL. MARTHA ST. CLAIR WINGERT, Whittier, Calif. Filed Mar. 24, 1922. Serial No. 1,369. Term of patent 7 years.



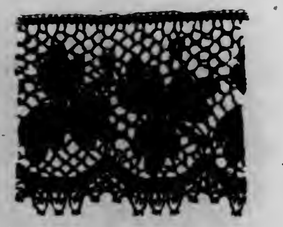
The ornamental design for a doll, as shown.

62,297. COFFIN. EDWARD E. ALLEN, Rutland, and PHILIP M. M. PHELPS, Fair Haven, Vt. Filed June 7, 1922. Serial No. 2,555. Term of patent 3½ years.



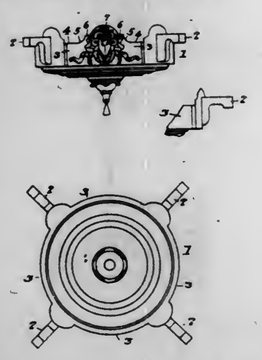
The ornamental design for a coffin, as shown.

62,298. LACE. WALTER DRAYCOTT, Alton, R. I. Filed July 19, 1922. Serial No. 3,133. Term of patent 3½ years.



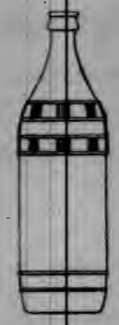
The ornamental design for lace, as shown.

62,299. PAN FOR A LIGHTING FIXTURE. LOUIS JACOBSON, Philadelphia, Pa. Filed May 4, 1921. Serial No. 466,699. Term of patent 3½ years.



The ornamental design for a pan for a lighting fixture as shown and described.

62,300. BOTTLE. MORRIS I. KATZ, Springfield, Mass. Filed May 4, 1922. Serial No. 2,077. Term of patent 14 years.



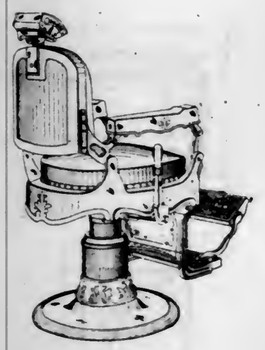
The ornamental design for a bottle as shown.

62,301. BARBER POLE. WALTER F. KOKEN, St. Louis, Mo. Filed Mar. 24, 1922. Serial No. 1,373. Term of patent 14 years.



The ornamental design for a barber pole, as shown.

62,302. BARBER CHAIR. WALTER F. KOKEN, St. Louis, Mo. Filed Mar. 24, 1922. Serial No. 1,374. Term of patent 14 years.



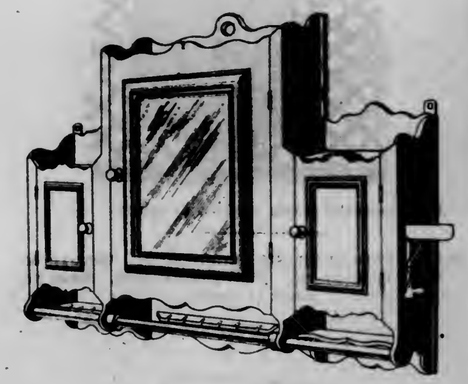
The ornamental design for a barber chair, as shown.

62,303. BOTTLE. WILLIAM BAIRD MARBLE, Los Angeles, Calif., assignor to Southern Glass Company, a Corporation of California. Filed June 12, 1922. Serial No. 2,630. Term of patent 14 years.



The ornamental design for a bottle, as shown.

62,304. CABINET. ARTHUR G. MARSHALL, formerly known as Otto George Marquyl, Pittsburgh, Pa. Filed Nov. 23, 1921. Serial No. 517,365. Term of patent 7 years.



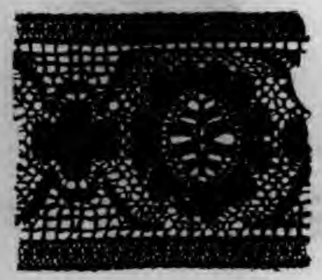
The ornamental design for a cabinet, as shown.

62,305. SPUR. GILBERT J. ORMISTON, Chicago, Ill. Filed May 8, 1922. Serial No. 2,131. Term of patent 14 years.



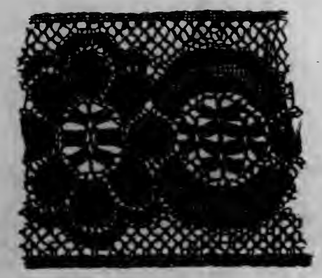
The ornamental design for a spur, as shown.

62,306. LACE. GEORGE RADFORD, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,123. Term of patent 7 years.



The ornamental design for lace, as shown.

62,307. LACE. GEORGE RADFORD, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,125. Term of patent 3½ years.



The ornamental design for lace as shown.

62,308. LACE. GEORGE RADFORD, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,126. Term of patent 3½ years.



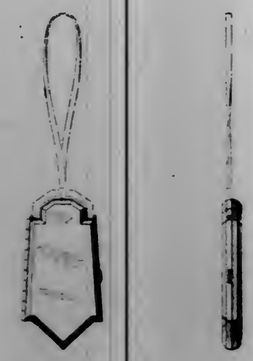
The ornamental design for lace, as shown.

62,309. LACE. GEORGE RADFORD, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,127. Term of patent 3½ years.



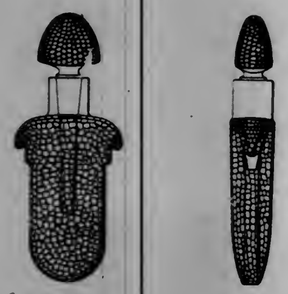
The ornamental design for lace, as shown.

62,310. VANITY CASE. ALFRED FRANCIS REILLY, North Attleboro, Mass. Filed Nov. 22, 1921. Serial No. 517,115. Term of patent 3½ years.



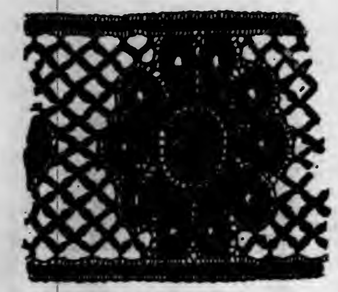
The ornamental design for a vanity case, as shown.

62,311. STOPPERED LIQUID CONTAINER. ARTHUR SCHOENBRUN, New York, N. Y., assignor to Magnum Import Co., Inc., New York, N. Y. Filed May 27, 1922. Serial No. 2,437. Term of patent 7 years.



The ornamental design for a stoppered liquid container, as shown.

62,312. LACE. HANS SEEL, Hopkinton, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,132. Term of patent 3½ years.



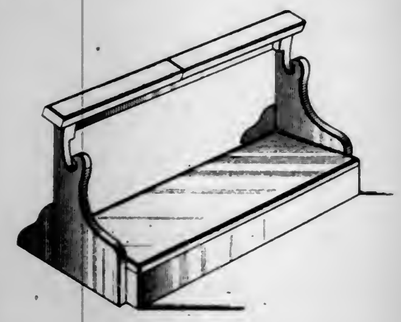
The ornamental design for lace, as shown.

62,313. PUBLIC TRASH RECEPTACLE. WILLIAM M. VISER, Louisville, Ky. Filed Mar. 25, 1922. Serial No. 1,395. Term of patent 14 years.



The ornamental design for a public trash receptacle substantially as shown.

62,314. PRIE DIEU. CHESTER E. WALKER, Peoria, Ill. Filed June 9, 1922. Serial No. 2,599. Term of patent 3½ years.

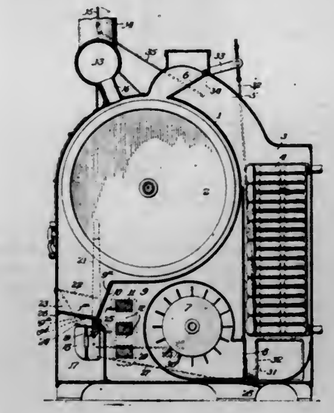


The ornamental design for a prie dieu, as shown.

PATENTS

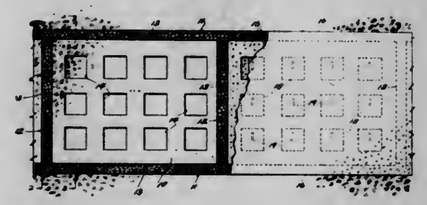
GRANTED MAY 1, 1923.

1,453,260. DRYROOM TUMBLER. VICTOR E. ADLAND and LESLIE H. KAMPER, Chicago, Ill., assignors to Troy Laundry Machinery Company, Ltd., Chicago, Ill., a Corporation of New York. Filed Oct. 31, 1921. Serial No. 511,652. 7 Claims. (Cl. 34—5.)



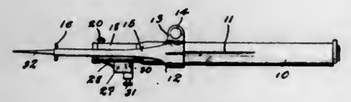
1. A dryroom tumbler having a casing and a tumbler therein for goods to be dried, means for supplying both drying and freshening air to the tumbler, and independent means for receiving from the tumbler the respective kinds of air thus supplied.

1,453,261. HIGHWAY AND SIMILAR FOUNDATION. JOSEPH HAY AMIES, Philadelphia, Pa. Filed Feb. 16, 1921. Serial No. 445,532. 7 Claims. (Cl. 94—10.)



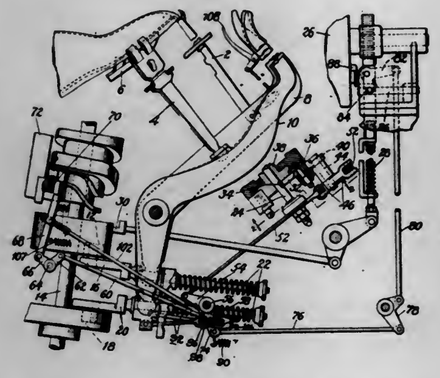
1. A foundation of the character stated comprising a sub-grade provided along each side thereof with a trench of which one is relatively deep and the other relatively shallow, a plurality of other trenches extended transversely through the sub-grade and inclining from the shallow toward the deeper of and communicating with the longitudinal trenches, and a cementitious superstructure for said sub-grade the material of which partially fills said trenches to form buttresses for supporting the arch of the road bed and means within said trenches for supporting said cementitious material free of the trench bottoms for drainage purposes.

1,453,262. HAND-EMBROIDERY NEEDLE. GEORGE E. BANGHART, Olney, Ill. Filed Jan. 26, 1922. Serial No. 531,881. 1 Claim. (Cl. 112—80.)



A device of the character described comprising a barrel, a needle mounting plug engaged in one end thereof, a tube having a flared end exposed through the upper end of the barrel, and eccentrically opening through the lower end of the device, and a friction device to engage a yarn passing from the last named end of the tube to a needle in said plug.

1,453,263. PULLING-OVER MACHINE. ARTHUR BATES and WILFRID THOMAS MINETT, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 31, 1922. Serial No. 548,452. 14 Claims. (Cl. 12—4.)

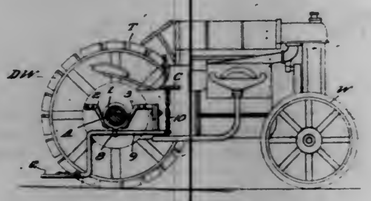


1. In a machine of the class described, the combination with a plurality of upper pulling devices for pulling an upper respectively in different locations, and means for fastening the upper, of controlling mechanism for said fastening means automatically operative to prevent the fastening of the upper under abnormal upper pulling conditions in respect to any one of said plurality of upper pulling devices.

1,453,264. SAFETY ATTACHMENT FOR TRACTORS. LEANDER BIERSCHBACH, Mount Pleasant, Mich. Filed Oct. 7, 1920. Serial No. 415,438. 3 Claims. (Cl. 180—82.)

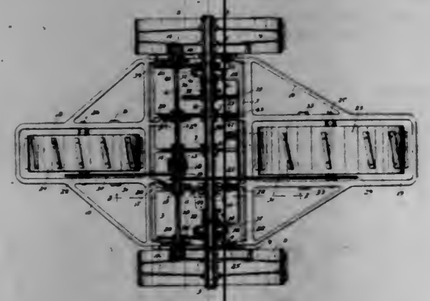
1. An attachment of the class described comprising an axle encircling band having diverging holding arms fixed thereto, an adjustable bumper depending from one of

said arms, and a lever fulcrumed intermediate its ends on said band and having one end extended under said



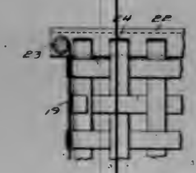
bumper and provided with a clutch connecting element, the other end of said lever being offset and provided at its terminal with a shoe.

1,453,265. TRACTOR. CHARLES E. BIAD, Minneapolis, Minn. Filed May 22, 1920. Serial No. 383,379. 14 Claims. (Cl. 180—17.)



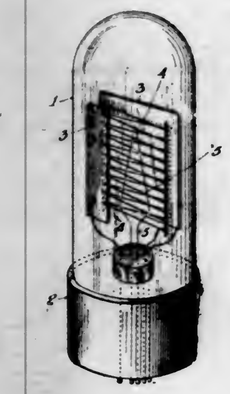
1. A tractor having laterally spaced side traction wheels and longitudinally offset transversely intermediate traction wheels, a motor on said tractor having connections for driving all of said traction wheels, and including a differential gear mechanism in the driving connection between said intermediate and side wheels operative to drive said intermediate wheel at a proportionate speed in turning.

1,453,266. ICE RECEPTACLE. BENJAMIN H. BLOUNT, Houston, Tex. Filed Jan. 24, 1922. Serial No. 531,376. 1 Claim. (Cl. 220—19.)



An ice receptacle having woven metal walls, a binder for the upper edge of the receptacle comprising spaced end rods over which the vertical strands of the ends of the woven walls are rolled, and spaced side members each perforated to receive the ends of the rods and apertured to receive the vertical strands of the sides of the woven walls.

1,453,267. ELECTRON-EMITTING CATHODE AND METHOD OF MAKING THE SAME. JAMES LLEWELLYN BRADFORD, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 29, 1918. Serial No. 264,504. 26 Claims. (Cl. 250—27.)

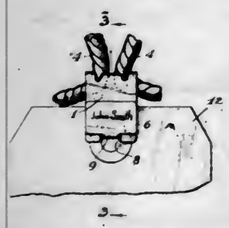


6. The process of manufacturing electron-emitting cathodes, which consists in mixing together a base material and a mixture of oxides and a chloride of the alkali earth group, and finally amalgamating the mixture into a homogeneous body.

21. An electron-emitting cathode consisting of an homogeneous body containing tungsten as a base material, and a diluent including oxids and a chloride of metals falling under the second and eighth respectively groups of the periodic law.

24. An electron-emitting cathode consisting of an homogeneous body containing a base material, strontium oxide and a metallic chloride.

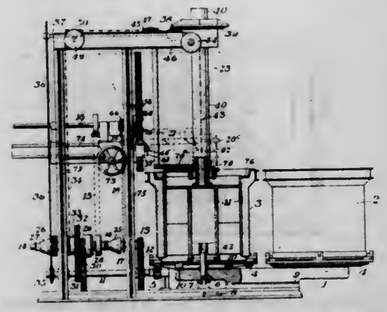
1,453,268. SEALING MEANS. WINFRED MUDGE BROOKS, South Orange, N. J. Filed Apr. 19, 1921. Serial No. 462,661. 6 Claims. (Cl. 292—325.)



1. Sealing means comprising: a member of sheet material having a main portion provided with an aperture, for the reception of strands, and an auxiliary portion at one end, said main portion being bent back upon itself along a line extending transversely through the aperture, and said auxiliary portion being bent back upon the doubled-up main portion.

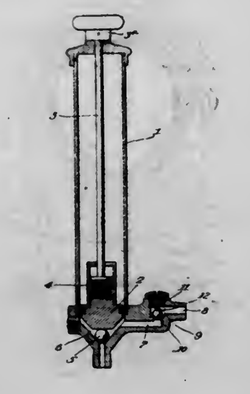
1,453,269. CONCRETE-PIPE MACHINE. CHARLES F. BUENTE, Pittsburgh, Pa. Filed Aug. 6, 1921. Serial No. 490,292. 23 Claims. (Cl. 25—37.)

1. In a concrete pipe machine, the combination of a mold, a core therefor, means for rotating said mold, means for causing a relative rotative movement between said mold and core, means for maintaining a uniform feed of concrete into said mold in the formation of one



size of pipe, and means whereby the rate of rotation of said mold may be varied and the rate of feed varied inversely to the rate of rotation of the mold in the formation of another size of pipe.

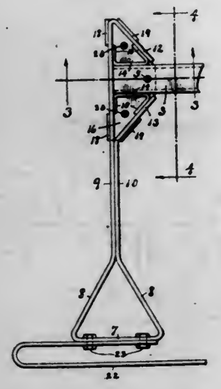
1,453,270. PRIMER FOR INTERNAL-COMBUSTION ENGINES. CHARLES S. BURTON, Oak Park, Ill. Filed Jan. 16, 1922. Serial No. 529,462. 1 Claim. (Cl. 103—154.)



A primer for internal combustion engines consisting of a plunger pump having one-way seating valves at the intake and discharge, the plunger being positioned with respect to the intake valve for locking said valve on its seat at the limit of the forcing stroke of the plunger and having a terminal for encountering the valve which is connected to the plunger for longitudinal play thereon; a spring reacting between the plunger stem and said terminal to thrust the latter yieldingly against the valve; and means for stopping the positive thrust of the plunger short of the limit of the play of the terminal whereby the pressure of the valve on its seat is limited to the tension of the spring.

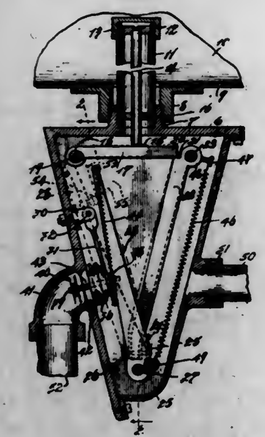
1,453,271. FENDER BRACKET. HARRY CAPLAN, Detroit, Mich. Filed Dec. 27, 1921. Serial No. 524,841. 5 Claims. (Cl. 293—55.)

4. A fender bracket consisting of two triangular ends and a bar between them, the outer end having a side at substantially right angles to the bar, which side is adapted to be attached to the fender, and caps attached to the inner end and to the frame bar of the vehicle, the edges of the caps being turned inwardly to brace the sides



of the inner end, braces being attached to the inner sides of the caps to brace the inner end and position the bracket on the frame bar of the vehicle.

1,453,272. THERMOSTATIC VALVE. PETER J. COLLINS, Brooklyn, N. Y. Filed Sept. 16, 1921. Serial No. 501,057. 8 Claims. (Cl. 236—48.)

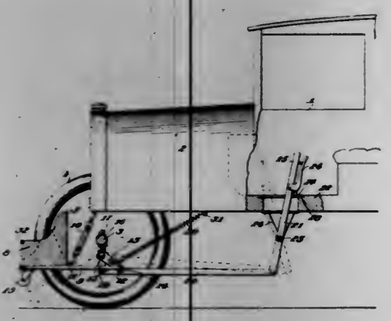


1. In a thermostatic valve, an expansible and contractible body comprising a thermostatic element, a lever of the third class yieldingly held against said element and moved thereby, a pair of coacting levers of like class one of which is actuated by said first lever, a pivoted valve carrier having a valve adjustably secured thereto, and a connection between the second of said pair of coacting levers and the valve carrier to swing the former over the valve carrier pivot to open and close the valve.

1,453,273. VEHICLE FENDER. LARIE GRELLA, Brooklyn, N. Y. Filed Jan. 19, 1923. Serial No. 613,673. 11 Claims. (Cl. 293—34.)

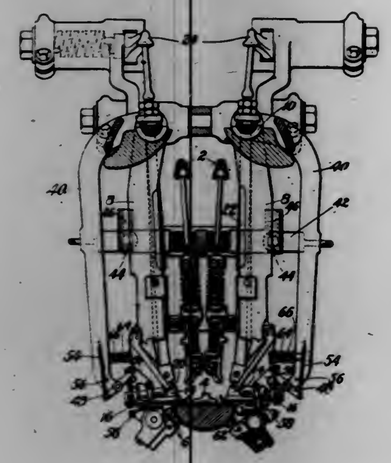
1. A fender for automobiles comprising intermediately pivoted longitudinal bars, a catcher on the outer end por-

tions of said bars, a rock shaft operatively engaging the inner ends of said bars, whereby the catcher may be



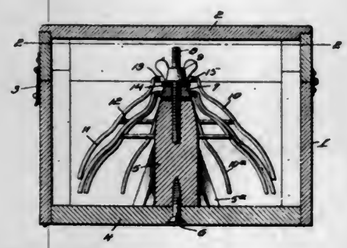
raised or lowered by rocking said shaft, and means for rocking said shaft.

1,453,274. MACHINE FOR SHAPING UPPERS OVER LASTS. ERIC A. HOLMGREN, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New York. Filed Oct. 22, 1919. Serial No. 332,520. 44 Claims. (Cl. 12—4.)



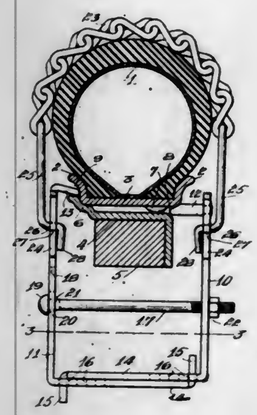
1. In a machine of the class described, the combination with means for pulling an upper over a last, of overlaying and fastening means, and mechanism for moving said overlaying and fastening means toward the shoe including parts arranged for relative movement in response to resistance encountered by said means in its movement toward the shoe to actuate the fastening means and a positively operating device for preventing the relative movement of said parts until the fastening means has arrived in a predetermined relation to the shoe.

1,453,275. LAMP-SHADE-DELIVERY BOX. THOMAS J. KEEPING, Los Angeles, Calif. Filed Sept. 19, 1921. Serial No. 501,738. 5 Claims. (Cl. 206—1.)



1. A delivery box of the class described, comprising a closed casing, having a shadt stand or support mounted therein, and composed of nested members constituting a plural support for a plurality of lamp shades.

1,453,276. NONSKID ATTACHMENT FOR VEHICLE WHEELS. JACOB S. KOMINZ, Rochester, N. Y. Filed July 15, 1921. Serial No. 485,063. 8 Claims. (Cl. 152—14.)

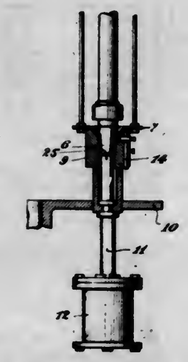


1. A non-skid attachment comprising two clamping members, wheel engaging means on the clamping members for engaging opposite sides of a wheel, an interlocking connection between the clamping members arranged to be positioned on the inner side of the felly of the wheel, means connecting the clamping members between the wheel engaging means and the interlocking connection for drawing said wheel engaging means in firm engagement with the opposite sides of the wheel, and a non-skid device connecting said clamping members.

1,453,277. MATRIX DEVICE FOR MOLDS. PETER KUCERA, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a Corporation of Delaware. Filed May 22, 1920. Serial No. 383,341. 14 Claims. (Cl. 49—38.)

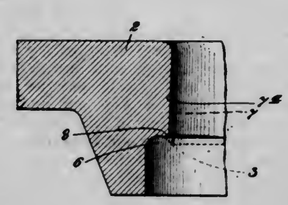
14. A block mold for the manufacture of glassware or the like comprising in combination a body portion pro-

vided with a mold recess, a mold table, a ring mold, a member mounted upon the side wall of the mold and being provided on one end with a configuration adapted to be impressed upon the article being molded and means



operated by the ring mold to move said member into operative position and operated by the mold table to move said member out of engagement with the finished molded article.

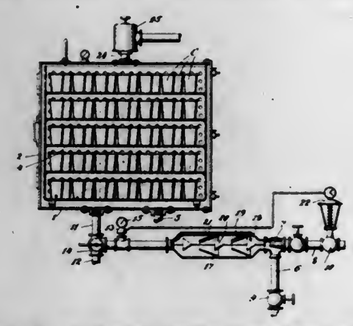
1,453,278. METHOD OF MANUFACTURING RING MOLDS AND THE LIKE. PETER KUCERA, South Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a Corporation of Delaware. Original application filed Jan. 6, 1920, Serial No. 349,704. Divided and this application filed July 9, 1921. Serial No. 483,422. 9 Claims. (Cl. 76—107.)



1. The method of manufacturing molds for pressed glassware which comprises producing a matrix of approximately the desired shape, then subjecting portions of the mold to compression forces to compact and harden the said portions, then finishing the hardened portions to the desired size and shape.

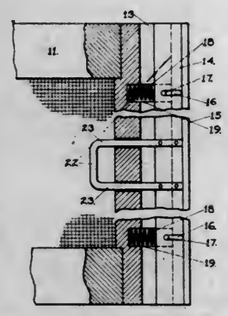
1,453,279. METHOD AND APPARATUS FOR CONTROLLING COOLING OF PACKAGES. GEORGE W. LUHRMANN, Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 8, 1920. Serial No. 350,239. 7 Claims. (Cl. 62—170.)

1. The method of cooling sealed packages having frangible containers, which includes maintaining the packages under an equalizing pressure, supplying a cooling fluid, attemperating the cooling fluid with reference to the temperature of the packages to provide a cooling medium, applying successive quantities of the cooling



medium at successively reduced temperatures to packages disposed in successive zones, and withdrawing the cooling medium from the zone of highest temperature.

1,453,280. WINDOW SCREEN. HENRY A. PARK, South Roanoke, Va. Filed Mar. 27, 1922. Serial No. 547,086. 1 Claim. (Cl. 156—14.)

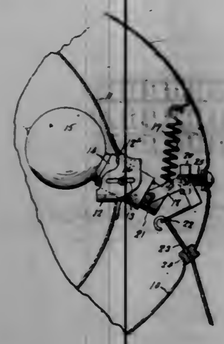


In combination with a window frame, guide strips mounted upon the confronting sides of the frame, a screen frame formed in its opposite edges with channels and with sockets communicating therewith, bearing members slidably mounted within the channels in the screen frame and embracingly engaging said guide strips, coil springs fitting within said sockets and bearing against the inner edges of said bearing members for forcing the same outwardly, a stationary handle carried by one side of the screen frame, a handle member secured to the other bearing member and slidable through the adjacent side of the screen frame, and means for limiting outward movement of the bearing members, each of said bearing members being formed from a single piece of resilient metal bent at its longitudinal center and having its major portion jammed together with its free edges extended outwardly and rolled to engage opposite sides of the guide strip.

1,453,281. LAMP-BULB-TILTING DEVICE. WILLIAM F. PERSONS, Cleveland, Ohio, assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 29, 1920. Serial No. 420,521. 1 Claim. (Cl. 240—44.)

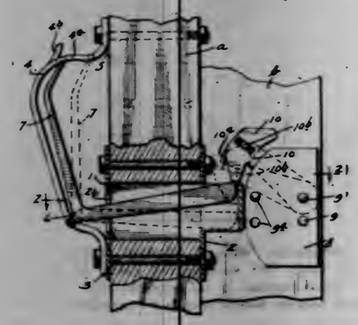
In a device of the kind described, the combination with a lamp body and reflector, of a slotted sleeve connected to said reflector, a lamp socket pivoted in said sleeve and movable both pivotally and longitudinally within said sleeve, means for maintaining said socket

normally in line with the axis of reflector, a longitudinally adjustable member to the rear of the socket,



a rocking member pivotally connected to said adjustable member and to the socket, and means for rocking said rocking member and socket.

1,453,282. AUTOMATIC DOOR LATCH. CARL PETERS, Sherburn, Minn. Filed June 13, 1921. Serial No. 477,079. 9 Claims. (Cl. 292—254.)



1. A latch device comprising a keeper adapted to be secured to the inside of a door, a latch pivoted to swing about a horizontal axis parallel to the door and adapted to be secured to the door jamb, and so arranged that it will be raised by the keeper and engage with the same, a housing handle member secured to the outside of the door, a lever mounted therein to swing on a horizontal axis parallel to the door having one arm adapted to extend through the door and engage the said latch to lift the same, and having another arm extending vertically in said handle portion normally spaced from the front thereof.

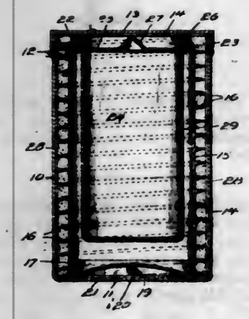
1,453,283. PAPER CLOSURE. GEORGE RAMSEY, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 11, 1918. Serial No. 227,874. Renewed Sept. 3, 1921. Serial No. 498,573. 13 Claims. (Cl. 215—38.)

1. A closure of the character specified comprising a cap of paper and the like having a top portion and a depending skirt, a bead in the said skirt with the concave portion of the bead on the interior of the skirt and the convex portion of the bead on the exterior of the skirt, and a reinforcing band covering said bead, said band being formed of material having greater stability than the material in the cap and adapted when compressed



to cause said bead to be collapsed and to produce an inward radial movement of portions of the skirt whereby said cap may be sealed against a substantially incompressible side wall of a suitable container.

1,453,284. RECEPTACLE. EUGENE A. ROBE, New Concord, Ohio. Filed Apr. 4, 1922. Serial No. 549,557. 5 Claims. (Cl. 220—15.)

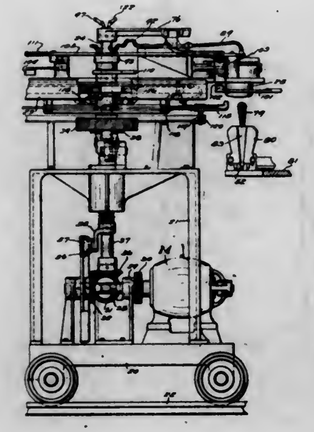


1. In a receptacle as characterized, an outer cylindrical casing, an inner cylindrical container, a cylindrical member interposed between the casing and container and arranged to provide spaces between its outer wall and the inner wall of said casing and its inner wall and the outer wall of said container, said member having an inner and outer open end, said container engaging with the outer end of said member for closing it, a removable closure for an inner end of said member, a spiral element interposed between the inner wall of said casing and the outer wall of said member to strengthen said walls against injury or collapse, a packing filling the outer space between said casing and said member and within the channelway formed by said spiral element, and means whereby a vacuum may be drawn in the space between the inner wall of said member and the outer wall of said container.

1,453,285. APPARATUS FOR GATHERING AND TRANSFERRING MOLTEN GLASS. JOHN F. RULE, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919. Serial No. 332,987. 5 Claims. (Cl. 49—62.)

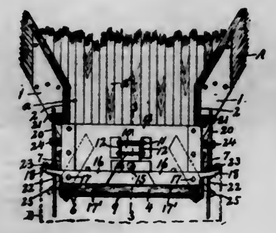
5. The combination of a carrier rotatable continuously about a vertical axis, a gob forming receptacle carried thereby open at its lower end to receve a charge of glass, means to dip said receptacle into contact with a pool of molten glass during said rotation and gather a charge of glass by suction, a knife on said carrier, means to project the knife across the bottom of the receptacle to sever the gathered glass from the supply, a burner on

said carrier, means to project the burner laterally to an operative position directly beneath the charge of glass



and direct a heating flame vertically upward against the cut end of the glass, means to then withdraw the burner, and means to introduce the glass into a shaping mold.

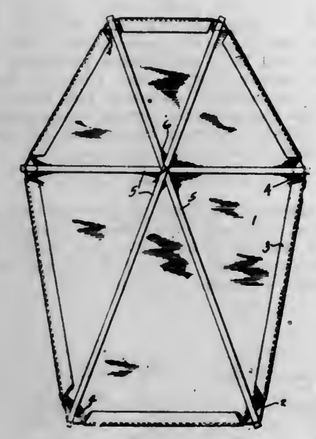
1,453,286. COMBINED CHUTE AND BAG HOLDER. CHARLES E. SCHWAR, Lyons, N. Y. Filed Feb. 24, 1922. Serial No. 538,885. 5 Claims. (Cl. 83—26.)



1. In combination with a chute, a frame pivoted to the chute for swinging movement in either of two opposite directions and provided with a gate movable to and from a position across the discharge opening in the chute as the frame is rocked in opposite directions, movable bag-supporting members on the frame, a catch plate for holding said members in operative position for holding the bag, a stop for limiting the movement of said catch plate and a handle on the catch plate for tripping the same against the stop and thereby releasing the bag-holding members from their holding positions.

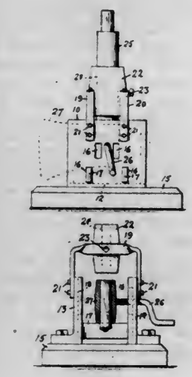
1,453,287. KITE. HARVEY A. SELLERS, Decatur, Ill. Filed Nov. 14, 1921. Serial No. 514,872. 1 Claim. (Cl. 244—22.)

In a kite, in combination, a frame comprising a plurality of sticks adapted to have a radiating crossing relation, a six sided foldable covering for said frame cut away V shape at the corners and having a single cord binder exposed at the cut away corners, said sticks being of such a length relative to the distance between the corners of the kite as to require the buckling of said sticks to engage said cord binder and each end of the



sticks having a slit to receive said binder cord, and a non-removable elastic and flexible binder to hold the sticks when knocked down and at their crossing point when the kite is assembled.

1,453,288. TOOL-HANDLE REMOVER. WILLIAM D. SNOWMAN, Ashland, Me. Filed Sept. 21, 1921. Serial No. 502,159. 1 Claim. (Cl. 29—86.)

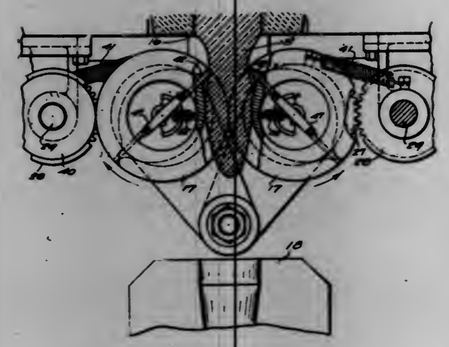


A tool handle removing device comprising spaced side members having supporting seats in their confronting faces, bars engageable in said seats and adapted to support a tool head, a holder supported on said side members and having a longitudinally directed guideway, and a striking pin movable through said guideway.

1,453,289. PROCESS OF SEPARATING ZINC AND LEAD. EDWARD H. SNYDER, Salt Lake City, Utah. Filed Nov. 24, 1919. Serial No. 340,219. 4 Claims. (Cl. 75—17.)

1. A process which comprises roasting lead-zinc ore containing sulfur and thereby making a product containing large quantities of lead sulfate and zinc oxid, intimately mixing such product with a chlorid of an alkali-forming metal in amount at least chemically equivalent to the lead compound present in the product, and heating the mass in a non-reducing atmosphere to a temperature between 750° C., and 1100° C., whereby the lead is substantially converted into chlorid and volatilized and the zinc oxid remains substantially unvolatilized, whereby the lead chlorid may be collected separately from the zinc oxid.

1,453,290. METHOD OF AND MEANS FOR FEEDING MOLTEN GLASS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed June 1, 1920. Serial No. 385,590. 27 Claims. (Cl. 49—55.)

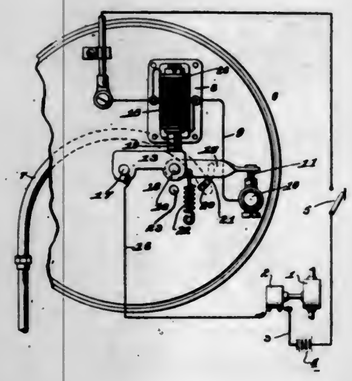


12. The combination of a container for molten glass having an outlet at which a continuous supply of the glass is maintained and through which a column of glass is extruded, a pair of gob shaping rolls on opposite sides of the glass, means to rotate said rolls in contact with the extruded glass while the latter is still united with the glass in the container, and cutting mechanism arranged to advance with the shaping surfaces of the rolls and sever the glass into individual masses.

20. The combination of a gob forming roll having two oppositely disposed gob forming recesses extending along its periphery, said roll having diametrically opposite slots between the ends of said recesses, cutter blades mounted to reciprocate radially in said slots, a yoke connecting said blades, means to rotate the roll, and a stationary cam arranged to shift said yoke in one direction when the roll reaches a predetermined point in its rotation to thereby project one cutter and to shift the yoke in a reverse direction when the roll has rotated a half revolution beyond said position, whereby each cutter is projected at the same rotative position.

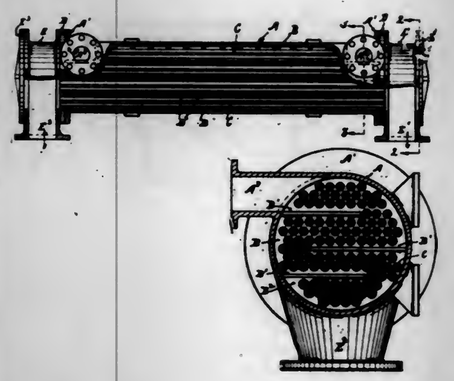
1,453,291. REGULATOR FOR SYSTEMS OF APPARATUS. ALLEN C. STALEY, St. Louis, Mo., assignor to Standard Engineering Company, St. Louis, Mo. Filed Aug. 14, 1919. Serial No. 317,496. 14 Claims. (Cl. 200—81.)

1. In a regulator for controlling a device operating in a system of apparatus, the combination of an electric circuit, a pair of contacts, one of which is movable relatively to the other and operating when in engagement to close the circuit, a member controlled by said device



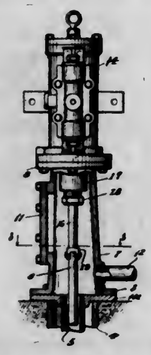
for engaging the movable contact to move the same away from the other contact and thereby open the circuit, and means co-operating with said member after the circuit is broken to increase the distance between the contacts.

1,453,292. HEAT-EXCHANGE APPARATUS. HOMER I. STEFFA, Chicago, Ill. Filed Aug. 8, 1921. Serial No. 490,813. 2 Claims. (Cl. 257—236.)



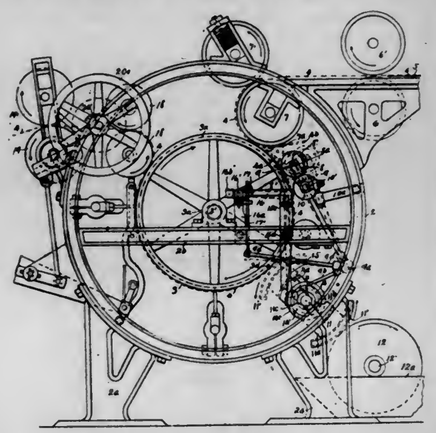
1. In an apparatus of the class described, a casing having inlet and outlet openings at opposite ends thereof, a series of transverse walls therein, each wall having an opening through which fluid may flow, the said openings being located alternately in the top and bottom of the walls, staggered horizontal partitions between said transverse walls, a series of longitudinal tubes passing through said casing and through said transverse walls, and secured in plates on the ends of said casing, and header chambers on the ends of said casing covering the ends of said tubes.

1,453,293. OIL-SAVER DEVICE. WILLIAM M. STEPHENSON, Dallas, Tex. Filed Oct. 26, 1917. Serial No. 198,077. 11 Claims. (Cl. 103—202.)



1. An oil pumping system including an engine in combination with the casing of a well, and an oil receptacle device interposed between the well casing and the engine to support said engine and act as an oil receptacle, and a discharge pipe connected to the receptacle.

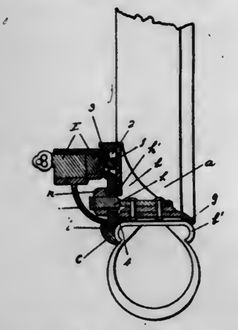
1,453,294. PAPER-BAG-BOTTOMING MACHINE. JOSEPH W. TAGGART, Watertown, N. Y. Filed Nov. 23, 1921. Serial No. 517,261. 9 Claims. (Cl. 93—21.)



1. In a paper bag bottoming machine, the combination of the drum having circumferential grooves, and the slitting rolls which carry the paper bags to the drum, one of said rolls having a spur which pierces and effects the spreading of the bottom end flaps after the slitting operation, of a rotary paste pad geared to and driven by said drum adapted to apply paste to said end flaps while the bags are being carried by the drum past a certain point, a roller adapted to engage the grooves in the drum whenever the feeding of the unpasted bags is interrupted, and means actuated by said roller for preventing the said pad from smearing the drum with paste.

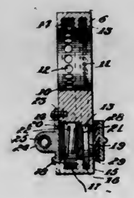
1,453,295. DEMOUNTABLE-RIM LOCK. HUSTON TAYLOR, Detroit, Mich., assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich, a Corporation of Delaware. Filed Mar. 6, 1920. Serial No. 363,847. 2 Claims. (Cl. 70—122.)

1. In combination with a ring on which a tire rim is adapted to be mounted, of a bolt extending from said ring parallel to the axis of the ring, a wedge plate mounted on said bolt and having a projection adapted to enter between the rim and the ring, a nut to hold the wedge plate in position to secure the rim on the ring, said wedge plate having a shoulder on one side of the bolt and an aperture on the opposite side of the bolt,



a housing adapted to fit over said nut and prevent access to the nut, said housing having an extension adapted to engage said shoulder, and a key-operated lock mounted in the housing and provided with an engaging member adapted to enter the aperture in the wedge plate to secure the housing in position.

1,453,296. AUXILIARY AIR VALVE FOR INTERNAL-COMBUSTION ENGINES. ALBERT WAGNER, Cincinnati, Ohio, assignor to Wagner Research Society, Cincinnati, Ohio, a Copartnership comprising Albert Wagner, Henry A. Meyer, Felix Elsbach, and Jacob Bloch. Filed Oct. 9, 1922. Serial No. 593,294. 6 Claims. (Cl. 48—180.)



1. A device of the character described adapted to be placed between a carbureter and an internal combustion engine, comprising a body or casing having an opening to register with the outlet of the carbureter, said body having a plurality of passages to admit air to said opening, a valve for admitting air to one of said passages, and a normally closed automatically actuated valve for admitting air to another of said passages, when the first mentioned valve is opened.

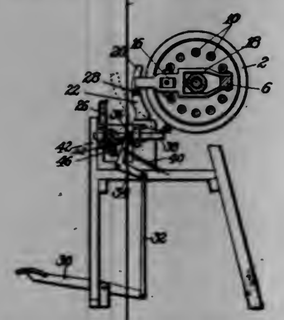
1,453,297. LAMP MOUNTING FOR CERTAIN OPTICAL INSTRUMENTS. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to American Cystoscope Makers, Inc., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,834. 7 Claims. (Cl. 128—7.)



1. In a device of the character described the combination of an optical barrel, a lamp socket carried by said

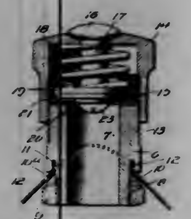
optical barrel, an incandescent lamp bulb provided with a stem fitting into said lamp socket in order to support said incandescent lamp bulb thereupon, so that said lamp bulb may be turned relatively to said socket, and means controllable at the will of the operator for securing said stem in different radial positions relatively to said socket.

1,453,298. STARTING AND STOPPING MECHANISM. JESSE S. WENTWORTH, Norwood, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Mar. 27, 1914, Serial No. 827,596. Patent No. 1,336,875. Divided and this application filed Oct. 11, 1918. Serial No. 257,727. 8 Claims. (Cl. 192—25.)



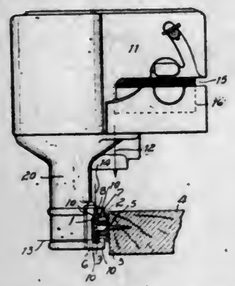
1. In mechanism of the class described, the combination with a clutch, of means for actuating said clutch comprising a clutch controlling member, a switch cam mounted on said member, an operator-controlled slide, and means on said slide arranged to engage the switch cam to operate the controlling member upon movement of the slide in one direction and to disengage the switch cam and permit the controlling member to return to original position upon continued movement of the slide in the same direction, said slide being also arranged to engage another portion of the switch cam upon movement of the slide in the opposite direction to its original position.

1,453,299. FLUID-TIGHT CONTAINER AND CLOSURE THEREFOR. EUGENE WETZEL, Appleton, Wis. Filed Sept. 30, 1921. Serial No. 504,268. 6 Claims. (Cl. 220—24.)



1. The combination with a container having its body provided with an opening at one corner thereof and further provided with an outwardly projecting flange extending around said opening and disposed at an angle with respect to said body, of an angularly disposed neck extended through said opening and having its outer face provided with a groove for the reception of said flange, means mounted on the inner end of said neck for clamping said flange thereto, and a cap threadably engaging with the outer portion of said neck and provided with a spring controlled valvular device adapted to seat on the outer end of the neck for closing it when the cap is adjusted toward the neck.

1,453,300. MOUNTING FOR MEASURING MACHINES AND THE LIKE. JOHN L. WHEELER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Dec. 20, 1921. Serial No. 523,699. 2 Claims. (Cl. 211—12.)



1. In a mounting for a measuring machine to be secured to a counter, and which is operated by pulling the fabric through the machine parallel with the edge of the counter, the combination of a rail, a shoe mounted to slide along the rail and having fixed bearing cheeks to engage and slide upon the rail on its opposite sides, and a measuring machine supported on the shoe with its center of gravity disposed in a vertical plane removed from the plane of the rail, whereby the forces developed at the said bearing cheeks of the shoe are reacted to by the said face of the rail, and operate to offer sufficient frictional resistance to prevent the measuring machine from being pulled along the rail by the fabric during the measuring movement.

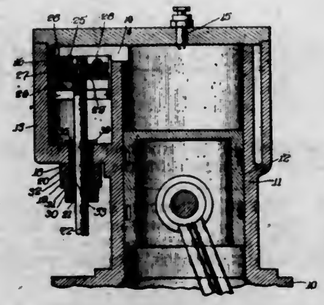
1,453,301. LONG-REACH TONGS. OSCAR S. WINKLER, Baltimore, Md. Filed Mar. 21, 1922. Serial No. 545,607. 7 Claims. (Cl. 294—22.)



1. In a grapple, the combination of a pair of gripping jaws, a body on which said jaws are mounted, an actuating handle on said body, and means including an elastic element connecting the handle to the jaws in such manner that the jaws can be both closed and yieldingly held closed by said handle and said means.

1,453,302. VALVE ARRANGEMENT. ELTON A. WRIGHT, Chicago, Ill. Filed July 10, 1920. Serial No. 395,329. 5 Claims. (Cl. 123—188.)

1. In an internal combustion engine, a hollow cylindrical slide valve split throughout its length, a valve stem, and a holding member supporting the valve upon the stem in such manner as to permit a limited relative lateral movement of the valve and stem, said holding



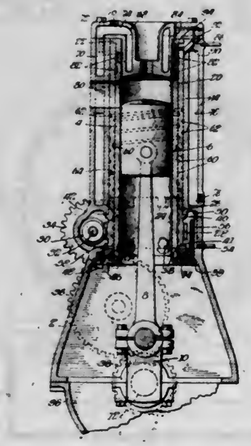
member being provided with axial openings through which a fluid passes during normal operation of the engine.

1,453,303. PROCESS OF MANUFACTURING PLATES FOR ARTIFICIAL DENTURES. HOMER T. YARYAN, St. Petersburg, Fla. Filed Sept. 23, 1921. Serial No. 502,639. 5 Claims. (Cl. 204—8.)



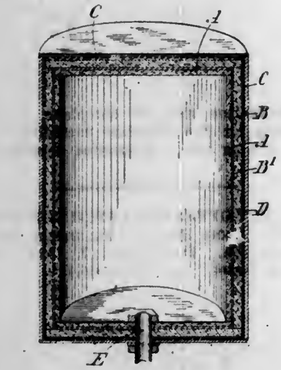
1. The process of manufacturing plates for artificial dentures, which consists in taking a reproduction of the mouth, electrically depositing a base metal on the reproduction to form a plate blank, attaching a vulcanite anchoring means to the blank, and plating the blank with a metal which is noncorrosive and not objectionable to the mouth.

1,453,304. EXPLOSIVE ENGINE. JAMES A. CHARTER, Chicago, Ill. Filed Aug. 15, 1919. Serial No. 317,701. 10 Claims. (Cl. 123—80.)



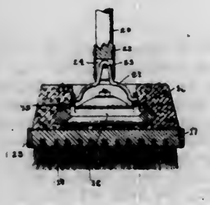
1. In mechanism of the class described, in combination with an engine cylinder, a sleeve valve having valve ports therein mounted for rotation with reference to the cylinder, gear mechanism for rotating said sleeve located within a space formed within the engine structure, means supplying oil to said gear containing space, and means at a point above the gearing and below the valve ports permitting automatic drainage therefrom of all the oil in the gear chamber in excess of a predetermined quantity.

1,453,305. SELF-SEALING PETROL TANK OR OTHER CONTAINER. CHARLES ANGUS CLEGHORN, Woburn Sands, England. Filed July 9, 1919. Serial No. 309,619. 12 Claims. (Cl. 154—46.)



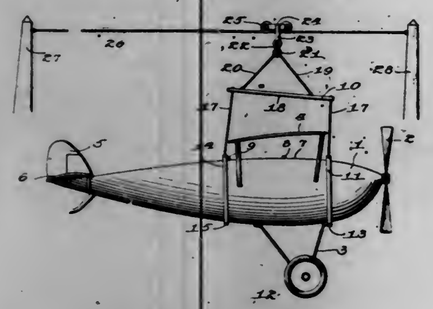
1. A container for fluids comprising a layer of sponge rubber and a coating of Turkish birdlime disposed on the face of the rubber.

1,453,306. BRUSH. JAMES COLLIER, Racine, Wis., assignor to S. C. Johnson & Son, Racine, Wis., a Partnership consisting of Herbert Fisk Johnson, Herbert Fisk Johnson, jr., Helen Converse Johnson, and Jessie Johnson Lyman. Filed Apr. 13, 1922. Serial No. 552,202. 3 Claims. (Cl. 15—143.)



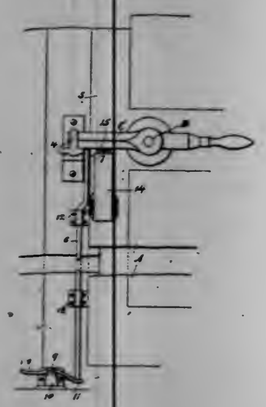
1. In a brush of the class described a moulded body of cementitious material, a reinforcing member moulded therein, ears projecting from said reinforcing member, a brush back removably secured to said body and a handle pivotally connected to said ears.

1,453,307. AEROPLANE SUSPENSION. HENRY A. CRAWFORD, Tulsa, Okla. Filed July 15, 1922. Serial No. 575,232. 4 Claims. (Cl. 104—23.)



1. In combination with an aeroplane, a track, suspending means for the aeroplane including a truck on said track, a sling and a connection between the sling and truck.

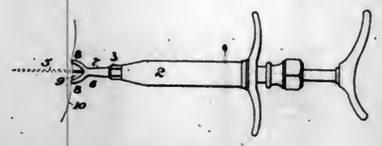
1,453,308. FOOT-OPERATED LATCH FOR DOORS AND THE LIKE. CECIL EDWARD DILLISTONE, Owen Sound, Ontario, Canada. Filed Nov. 12, 1921. Serial No. 514,820. 1 Claim. (Cl. 292—255.)



In combination a latch pivoted to a refrigerator door and the like and extending beyond one side thereof; a keeper attached to the door-jamb frame; a latch-lifter rod adapted to be supported by said door-jamb frame to have vertical movement only, and provided at its upper end with a laterally offset portion which operates adjacent one side of said keeper and underneath said latch, and a foot-operated lever against which the lower end of said rod rests, the said rod through its own weight returning to normal position when pressure is relieved from said lever.

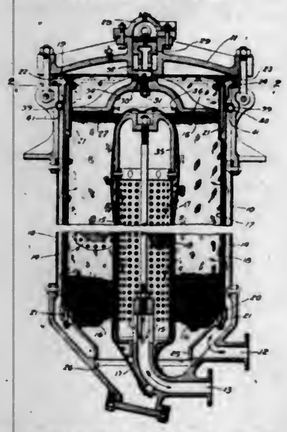
1,453,309. HYPODERMIC SYRINGE. JACOB A. EBERLY, Jr., Philadelphia, Pa. Filed May 24, 1921. Serial No. 472,053. 10 Claims. (Cl. 128—221.)

1. In a device of the character stated, the combination of a chuck and hypodermic needle with a guard carried by and extending beyond the end of the chuck and out of alinement with the needle, whereby the needle is free



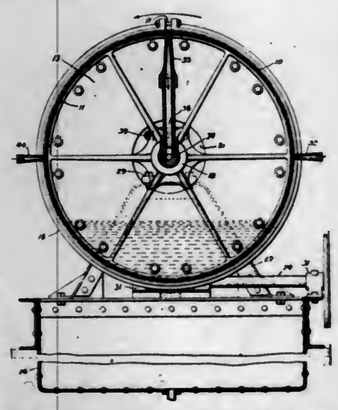
and is permitted to abruptly bend at the end of the chuck and out of contact with the guard.

1,453,310. FILTER. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,309. 6 Claims. (Cl. 210—183.)



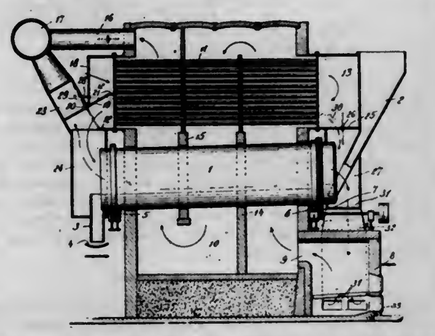
4. A filter comprising a casing, a screen supported within and secured to the casing at one end and a sliding expansion joint between the casing and the opposite end of the screen.

1,453,311. ROTARY FILTER. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,310. 8 Claims. (Cl. 210—199.)



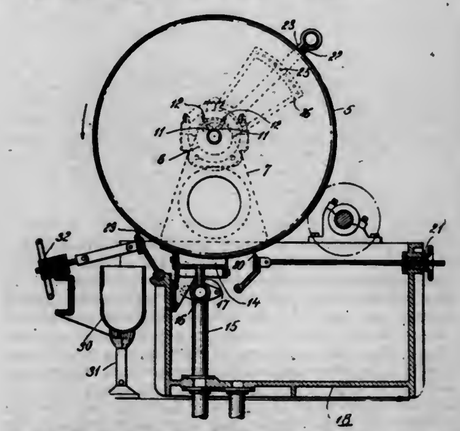
5. In a filter, a rotating drum screen, means for feeding the liquid to be filtered into said drum, means for collecting the filtrate issuing from the drum, a suction nozzle disposed with its mouth adjacent the inner surface of the screen and at a point above the possible liquid level in the drum, a filtrate collecting nozzle disposed with its mouth adjacent the outer surface of the screen and at a point to operate on the screen in advance of the first mentioned suction nozzle and means for directing a cleaning blast inwardly through the screen and disposed to operate on the screen after the screen has been acted upon by the first mentioned suction nozzle.

1,453,312. ROTARY DRIER. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,346. 9 Claims. (Cl. 34—6.)



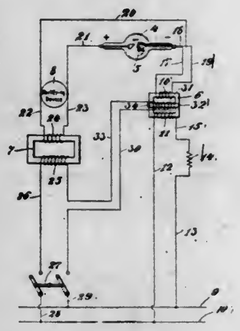
4. In apparatus of the character described, a drying cylinder, a furnace for heating the same, an air preheater disposed in the path of the furnace gases, a conduit for passing air through the preheater and the drying cylinder to the furnace, valve mechanism for controlling such flow of air and including a valve at one end of the preheater for controlling flow through one section of or through the entire preheater, and a valve at the opposite end of the preheater for enforcing flow through another section of the preheater or permitting flow direct to the drying cylinder.

1,453,313. DEALCOHOLIZING PROCESS AND APPARATUS. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,696. 12 Claims. (Cl. 195—1.)



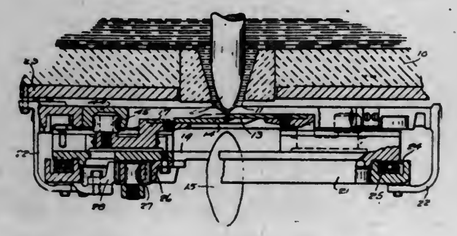
12. In apparatus of the character disclosed, means for supporting a body of refrigerated material, a traveling support positioned to dip into the body of refrigerated material, means for subjecting the support to the influence of a freezing medium, whereby to freeze a film of the material onto the surface of the traveling support, a liquid collector positioned to remove liquid adhering to the frozen film at one point in the travel of the support and means positioned to subsequently remove the frozen film from the support.

1,453,314. CURRENT REGULATOR FOR X-RAY SYSTEMS. CHARLES FAYER, New York, N. Y., assignor to Wappler Electric Co., Inc., a Corporation of New York. Filed Apr. 2, 1918. Serial No. 226,169. 1 Claim. (Cl. 250—3.)



The combination of an X-ray tube provided with a cathode to be heated, a transformer connected with said cathode in order to heat said cathode by supplying currents thereto, a transformer connected with said X-ray tube for the purpose of exciting the latter, a circuit connected with said last mentioned transformer in order to energize said last mentioned transformer, and electromagnetic mechanism energized by said circuit, said electromagnetic mechanism being so positioned and arranged relatively to said first mentioned transformer that the magnetic flux of said electromagnetic mechanism reaches directly said first mentioned transformer and modifies the magnetic flux thereof.

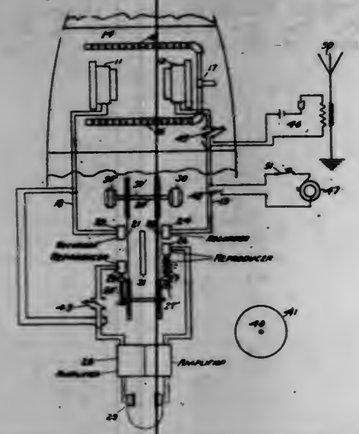
1,453,315. GLASS-CUTTING MECHANISM. ENOCH T. FRANGREN and LEONARD D. SOUBIER, Toledo, Ohio, assignors to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 9, 1921. Serial No. 499,404. 15 Claims. (Cl. 49—14.)



13. The combination of a container for molten glass having an outlet orifice in the bottom thereof through which the glass issues, cutting mechanism comprising shear blades located beneath said orifice at opposite sides of the issuing glass, and means to advance said blades in spiral paths and thereby sever the issuing glass, said

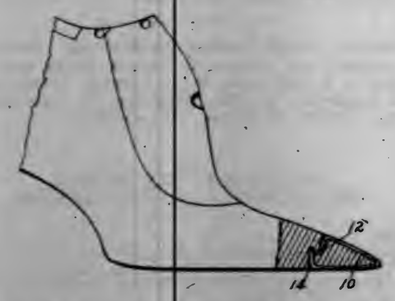
blades having V-shaped cutting edges, the outer portions of which overlap as the blades approach so that the cutting edges surround the issuing glass during the cutting operation.

1,453,316. ACOUSTIC METHOD AND APPARATUS. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Apr. 28, 1919. Serial No. 293,297. 9 Claims. (Cl. 177—386.)



6. Acoustic apparatus comprising two sound receivers, two sound recorders, one connected to each sound receiver; two sound records, two sound reproducers, and means for varying the times of reproduction of the records relatively to each other.

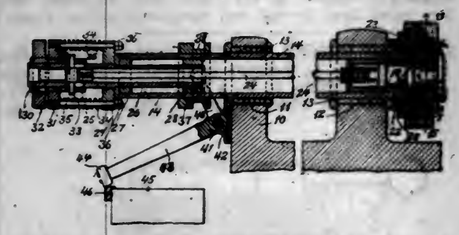
1,453,317. LAST WITH REENFORCED TOE. GUY B. FITZ, Auburn, Me., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed July 16, 1919. Serial No. 311,220. 2 Claims. (Cl. 12—133.)



1. A last having a flat metal ribbon extending in a longitudinal vertical plane around the toe tip with its outer surface substantially continuous with the surface of the toe tip.

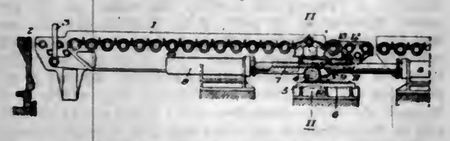
1,453,318. MECHANICALLY-OPERATED AUTOMATIC CHUCK. GEORGE C. GIDDINGS, Springfield, Vt. Filed Dec. 14, 1922. Serial No. 606,959. 1 Claim. (Cl. 279—121.)

In an automatic machine tool, a rotatable chuck-carrying spindle, a rotatable and endwise movable chuck actuator contained within said spindle, a tube fixed within the spindle surrounding said actuator and projecting at one end from the spindle, a spring abutment fastened to said tube adjacent to the end of the spindle, a second spring abutment having a sliding engagement on the tube, and being in rigid connection with the chuck actuator, a spring interposed between the two abutments tending to move them apart, a collar surrounding the spindle, with



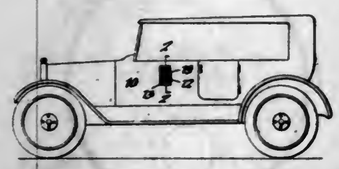
provision for movement endwise thereon, connections between said collar and the second abutment adapted to transmit movement from the former to the latter, in the opposite direction to the force application of said spring to the second abutment, and a cam-controlled operating lever for so moving said collar, the collar having a shoulder, and the lever having a stud adapted to bear upon said shoulder, for imparting movement as described to the collar.

1,453,319. BACK SHEAR TABLE. LORENZ IVERSEN, Pittsburgh, Pa. Filed Aug. 10, 1921. Serial No. 491,242. 11 Claims. (Cl. 164—49.)



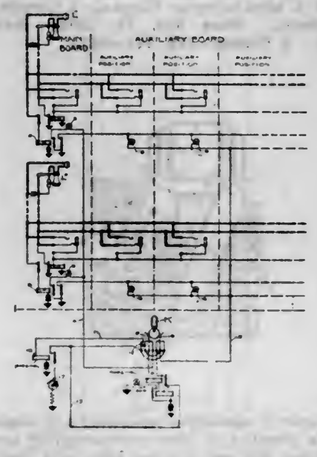
1. A table of the character described, comprising a main section and a disappearing section, movable means supporting one end of the main section, and means operatively connected to said supporting means for operating said disappearing section upon movement of said main section, substantially as described.

1,453,320. THEFT DETECTOR FOR AUTOMOBILES. JOSEPH J. MICHALSKI, Buffalo, N. Y. Filed Mar. 17, 1922. Serial No. 544,628. 5 Claims. (Cl. 40—61.)



1. A theft detector of the character described, comprising a box-like member adapted for attachment to a vehicle to move relatively thereto, the front wall of said member being provided with a transparent portion and its rear wall with a pocket facing said transparent portion and having an opening accessible from the back side of said rear wall, the exposed face of said pocket having a colored area visible through said transparent portion, a detecting member of a contrasting color arranged to normally overlie the colored area of said pocket, and means for locking said box-like member in its normal position, whereby said detecting member is inaccessible in such position.

1,453,321. CALL-DISTRIBUTING SYSTEM. WILLIAM S. PACA, Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,675. 8 Claims. (Cl. 179—54.)



5. In a telephone system, a plurality of signal lamps, a current measuring device in series with certain of said lamps, and a second current measuring device cooperating with the first to light and flash certain of said lamps.

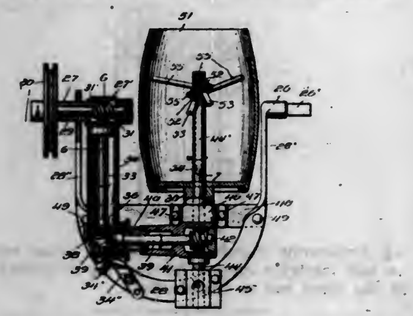
1,453,322. RAIL TIE. RICHARD PALMER, South Alburg, Vt. Filed Apr. 17, 1922, Serial No. 553,563. Renewed Mar. 5, 1923. 4 Claims. (Cl. 238—30.)



1. In combination, a rail tie, strips of resilient material connected at their outer ends to the underface of the tie near the opposite ends of the latter, said strips forming pockets, a quantity of yieldable material arranged in said pockets, the tie resting directly on said material.

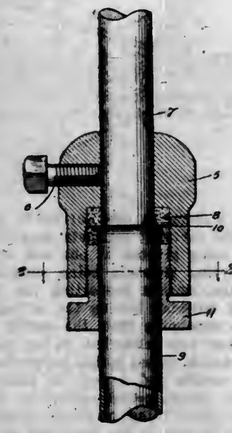
1,453,323. MIXING APPARATUS. WILLIAM E. PALMETER, Elmwood, Nebr. Filed July 18, 1922. Serial No. 575,800. 1 Claim. (Cl. 83—73.)

A mixer for the purpose set forth comprising a main frame, a U-shaped tiltable frame arranged within the main frame and provided with a support, a mixing chamber mounted on said support, a power shaft support mounted at one side of the main frame for pivotally supporting one side of the tiltable frame, a pintle projecting from the other side of the tiltable frame and pivotally mounted in the other side of said main frame for pivotally supporting the other side of the tilting frame within the main frame, a power shaft journaled in the power shaft support, an operative drive connection between said power shaft and said container, a rack carried by the main frame, and an adjustable



means connected with said pintle and cooperating with said rack and adapted to shift said container at an angle and for maintaining it in its shifted position.

1,453,324. BRASS-LINER STUFFING-BOX HEAD. ALBERT D. PURTLE, Marietta, Ohio. Filed May 7, 1921. Serial No. 467,667. 1 Claim. (Cl. 286—35.)

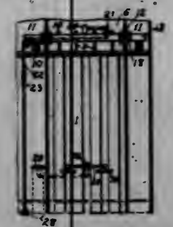


A stuffing box head having an opening formed therein, a polished rod operating through the opening, a liner tube embracing a portion of the polished rod and having one end thereof disposed within the opening, packing material within the opening disposed around the rod and contacting therewith, the packing material being positioned above the liner, means formed at the upper end of the liner tube and embedded in the packing material for restricting movement of the liner tube with respect to the polished rod, packing material positioned below the upper end of the liner and contacting therewith, and means for securing the packing within the head.

1,453,325. APPARATUS FOR ELECTRICAL PRECIPITATION OF SUSPENDED MATERIAL FROM GASES. WALTER A. SCHMIDT, Los Angles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Continuation of application Serial No. 127,606, filed Oct. 25, 1916. This application filed Sept. 14, 1922. Serial No. 588,284. 4 Claims. (Cl. 183—7.)

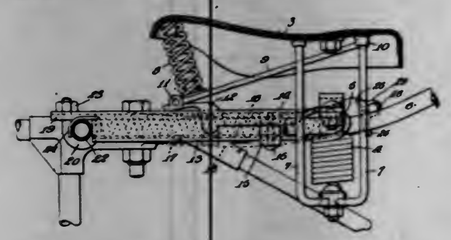
1. In an apparatus for electrical precipitation of suspended particles from gases, the combination with an

insulated support and a vertically extending discharge electrode mounted on said insulated support and extend-



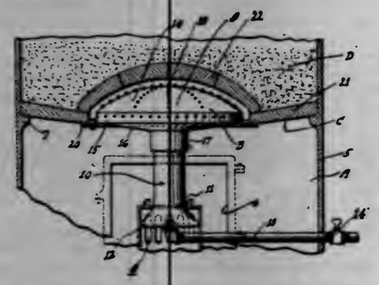
ing downwardly therefrom, of hammer means mounted on said insulated support for applying a vertical blow to the upper end of said electrode.

1,453,326. MOTOR AND OTHER CYCLE. JOHANNES TH. SENTROP, Jr., Montreal, Quebec, Canada. Original application filed Feb. 8, 1918, Serial No. 216,114. Divided and this application filed Dec. 13, 1918, Serial No. 266,627. Renewed Aug. 29, 1921. Serial No. 496,754. 7 Claims. (Cl. 208—15.)



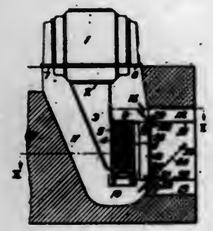
1. In a cycle, a frame, a tube carried by the frame, a saddle and saddle carrying members mounted upon the tube the latter being pivoted at one end to the frame, such saddle carrying members being slidable longitudinally of the tube, springs supporting the rear portion of the saddle, a cross-bar having the springs suspended therefrom, arms depending from the saddle on opposite sides of the frame and connected to the lower ends of said springs, a double coiled spring supporting the front portion of the saddle and a pair of links forming a bearing for said double coiled spring at the front of the saddle, such links being pivotally connected to the underside of the saddle at the rear and extending forwardly and converging to a central point on the tube.

1,453,327. GAS BURNER. JOSEPH WM. SHARP, Philadelphia, Pa. Filed Apr. 11, 1921. Serial No. 460,221. 7 Claims. (Cl. 126—92.)



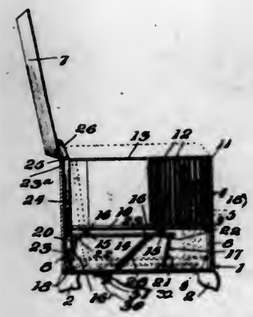
1. The combination of a burner comprising a head provided with a plurality of burner openings, a supply pipe leading to said head, a grate arranged around the head formed of refractory material, and a dome formed of refractory material supported by said grate and arranged over and in spaced relation to said head.

1,453,328. SYSTEM OF VENTILATION. JAMES SMILLIE, Stretford, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 12, 1920. Serial No. 423,598. 3 Claims. (Cl. 171—252.)



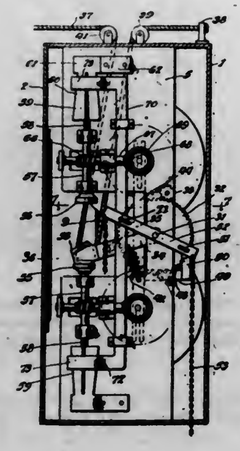
1. A system of ventilation comprising a dynamo-electric machine, a plurality of ducts communicating therewith, cooling means disposed adjacent said ducts, and a plurality of valve elements certain portions of which are adapted to be moved to open and close certain ducts and certain other portions thereof adapted to coact to open and close another duct to effect either an open or closed circulation of a cooling medium through said machine.

1,453,329. PHONOGRAPH CABINET. EDWARD W. WINSLOW, Belle Plaine, Iowa. Filed Apr. 6, 1921. Serial No. 459,077. 7 Claims. (Cl. 211—16.)



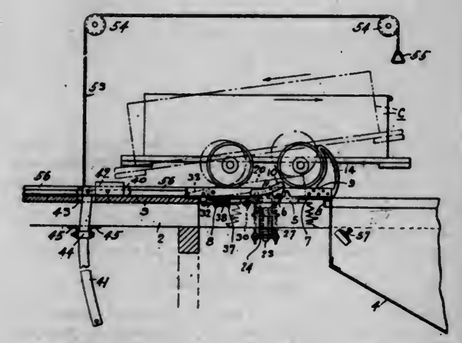
1. A cabinet for phonograph records having a record receiving compartment and provided with a hinged lid, a platform movable upwardly and downwardly within the compartment and arranged to receive and support the records, parallel lever members mounted within the compartment below the platform and connected with and operated by the lid, and means for connecting the lever members and for supporting the platform whereby the latter will be raised and lowered when the lid is opened and closed, said means including a crank element connected with one of the lever members.

1,453,330. STATION INDICATOR. JOSEPH C. WOOD, Jackson, Tenn., assignor of one-fourth to William M. Lane and one-eighth to William B. Barger, both of Jackson, Tenn. Filed Mar. 16, 1922. Serial No. 544,202. 10 Claims. (Cl. 40—87.)



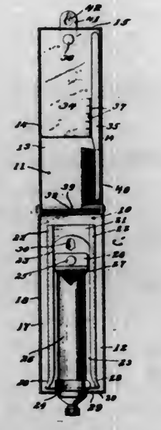
1. In a station indicator, the combination of a display web, means for effecting travel of said web including a vibratory lever, a stop in the path of the lever, and means for feeding the stop toward the lever for progressively limiting the travel of the web.

1,453,331. KICK-BACK CAR DUMP. CHRISTIAN B. ANFINDSEN, Charlerol, Pa. Filed Nov. 9, 1921. Serial No. 514,010. 9 Claims. (Cl. 214—47.)



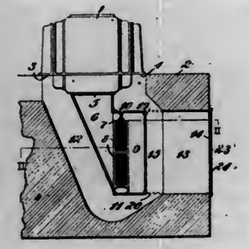
1. Car-dumping apparatus of the kick-back type comprising a support, tracks carried by the said support, means for causing the said support to be tilted to car-dumping position, auxiliary tracks also carried by the said support and means for resiliently maintaining the said auxiliary tracks inclined upwardly in the direction of movement of the cars coming upon the said support.

1,453,332. TOILET CASE. MORRIS W. ASKIN, Washington, D. C. Filed Dec. 18, 1920. Serial No. 431,765. 4 Claims. (Cl. 132—84.)



1. In a toilet case, a body portion, a lid hingedly connected therewith, a slidable tooth-paste tube carrier, and means on said lid and carrier for allowing sliding of said carrier to projected and retracted position and for locking it in retracted position when said lid is closed.

1,453,333. SYSTEM OF VENTILATION. KARL BAUMANN, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 9, 1920. Serial No. 415,796. 6 Claims. (Cl. 171—252.)

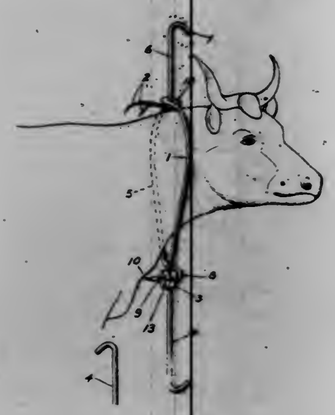


1. A system of ventilation for dynamo-electric machines comprising a plurality of ducts, doors arranged in said ducts for controlling the flow of a cooling medium therethrough, and means adapted to be moved into and out of the path of one of said doors to respectively prevent and permit of the movement of another door.

1,453,334. ANIMAL POKE. ANGUS BEATON, Medicine Hat, Alberta, Canada. Filed Oct. 1, 1921. Serial No. 504,747. 2 Claims. (Cl. 119—138.)

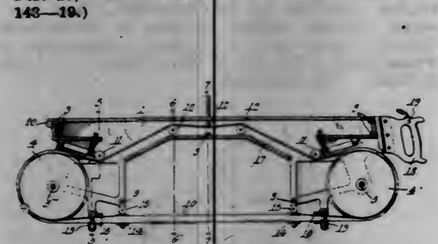
1. In an animal poke, opposedly bent wire members surrounding the animal's neck, one member provided with a loop at one end and a loop formed intermediately of the member, and a forwardly directed hook on the other end thereof, the other member having a portion in-

serted through the loop in the end of the first mentioned member, a rearwardly directed exteriorly threaded



pricker at one end of the second member inserted through the intermediate loop in the first mentioned member, and a nut threaded onto the said pricker.

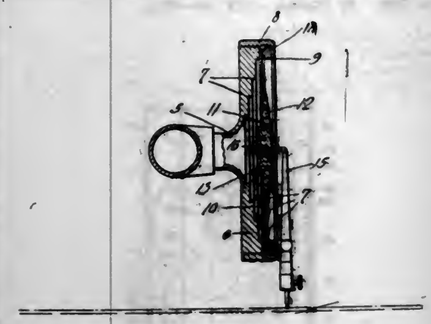
1,453,335. PORTABLE MOTOR-DRIVEN MEAT SAW. WILLIAM HERBERT BENNETT, Charlotte, N. C. Filed Feb. 25, 1922. Serial No. 539,249. 8 Claims. (Cl. 143—19.)



1. In a power driven portable hand saw, the combination of a frame, pulleys mounted at opposite ends of the frame, a saw band passing around the pulleys, and a plurality of guiding rollers near each end of the frame to guide the band saw into a plane with that of the pulleys, the guide rollers nearest the pulleys being disposed at an angle diagonal to the frame and the guide rollers nearer the center of the frame being disposed in alignment therewith.

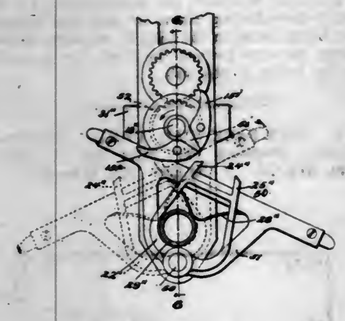
1,453,336. PHONOGRAPH DIAPHRAGM AND SOUND BOX. CHARLES CECIL BROSKIE, Stone, Ky. Filed July 21, 1919. Serial No. 312,175. 1 Claim. (Cl. 181—32.)

A diaphragm for phonographs having a comparatively large central opening with a cork disk mounted thereover and having a flat face overlapping and closely contacting with one face of the diaphragm, said disk having its outer or exposed face convexed and provided on its inner face with a central projection seated snugly within and extending through the opening in the diaphragm, the wall of said opening being embedded in the perimeter of said projection whereby the diaphragm and disk form a substantially unitary structure, said projection having its



inner face concaved to gather the sound waves and throw them out into the tone arm, and a stylus bar extending through the center of said disk and its projection.

1,453,337. AUTOMATICALLY-REVERSING DRAIN BOARD FOR CLOTHES WRINGERS. EDWARD PAYSON COWLES, Sparta, Mich. Filed June 25, 1920. Serial No. 391,657. 4 Claims. (Cl. 68—32.)

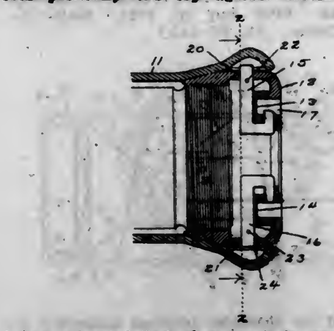


1. In a wringer, a roller adapted to be driven in either direction, a reversible drain-board, means for driving said roller in either direction, said means including a rotatable member having a cam, and means for reversing the drain-board when the direction of drive is changed, said last mentioned means including a member adapted to be engaged by said cam when the direction of drive is changed.

1,453,338. WHEEL. WALTER W. DAVISON, Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Mar. 19, 1920. Serial No. 367,074. 2 Claims. (Cl. 301—9.)

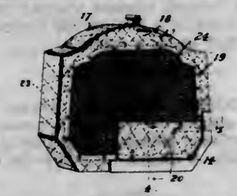
1. In a wheel, the combination with an inner hub of a hub shell mounted thereon, a hub cap on said hub and bearing against said hub shell to hold it on said hub, a locking ring fixed in the mouth of said hub shell and provided with a series of equally spaced slots, the division between said slots being of substantially the same width as the slots, a plurality of locking bars mounted in said hub cap and normally tending to reciprocate radially

therein into engagement with the slots in said ring to lock positively the cap against loosening, said bars



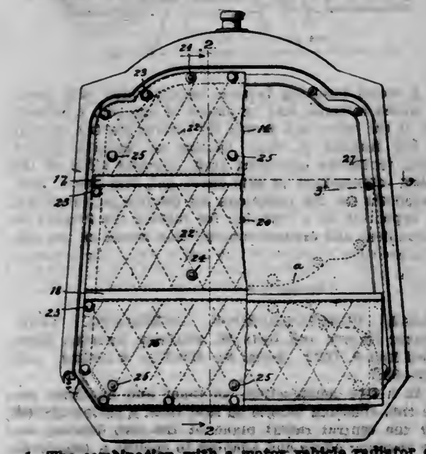
being so located that when one is in engagement with a slot in the locking ring another rests against a division in the ring.

1,453,339. RADIATOR COVER. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1919. Serial No. 269,427. 2 Claims. (Cl. 257—132.)



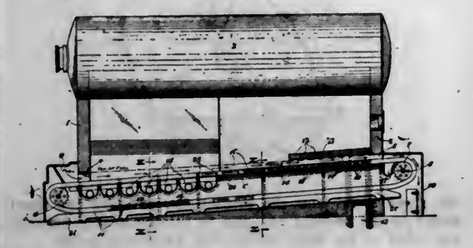
1. A motor vehicle radiator comprising in combination, a core, a removable shell surrounding the core and having an opening for air to pass through the core, a blanket disposed between said core and shell and projecting slightly beyond the edge of the shell bounding said opening, and a curtain closing said opening and detachably secured to the projecting portion of the blanket.

1,453,340. ATTACHMENT FOR MOTOR-VEHICLE RADIATORS. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1919. Serial No. 269,428. 10 Claims. (Cl. 257—132.)



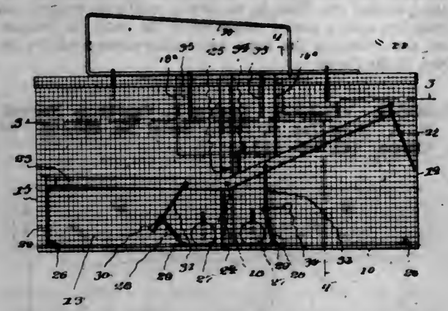
1. The combination with a motor vehicle radiator comprising a core and removable shell formed with an air opening at the front thereof; of a frame disposed between the edges of the shell bounding said opening and the core, a curtain adapted to close said opening, and means to detachably secure the curtain to said frame.

1,453,341. FURNACE. WILLIAM M. DUNCAN, Alton, Ill. Filed Mar. 14, 1919. Serial No. 282,714. 5 Claims. (Cl. 110—40.)



5. A furnace having a fuel intake in its front wall, an ash outlet formed transversely of its rear wall, and a combustion chamber adjacent to said fuel intake, a fuel carrier and ash conveyor comprising an elongated traveling grate extending from said fuel intake to said ash outlet, and a shield arranged over said elongated traveling grate and extending from said combustion chamber to the ash outlet in said rear wall, said elongated traveling grate having a fuel supporting portion in said combustion chamber and an ash conveying portion located below said shield and extending from said combustion chamber and entirely through the ash outlet in the rear wall.

1,453,342. ANIMAL TRAP. THOMAS J. ELLISON, Richmond, Ky. Filed Nov. 1, 1922. Serial No. 596,416. 5 Claims. (Cl. 43—67.)

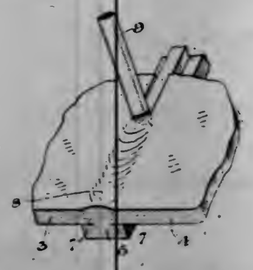


1. An animal trap comprising an enclosure having separate entrance compartments and a victim-receiving chamber, entrance gates for the entrance compartments, a pivoted beam to the ends of which the gates are connected for alternate operation, a tiltable victim-actuated member in each entrance compartment and having an operative connection with the aforesaid pivoted beam, a passageway leading from the entrance compartments to the victim-receiving chamber, and means for preventing the return of the animal from said chamber to the entrance compartments.

1,453,343. WELDED JOINT. JOSEPH W. FAY, Milwaukee, Wis., assignor to Fred Pabst Company, a Corporation of Wisconsin. Filed Dec. 19, 1921. Serial No. 523,586. 1 Claim. (Cl. 219—16.)

The herein described method of joining sheet metal parts which comprises positioning the edges of the sheet

metal upon the face of a backing bar having relatively low spacing projections, directing an arc against the face of the bar between the projections to fuse the edges of



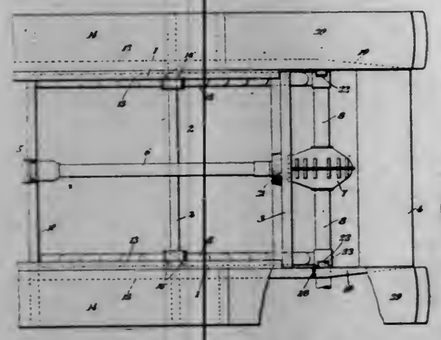
the sheet metal and the projections, to unite the sheet metal to the backing bar and to fill the groove between the edges of the sheet metal with additional metal.

1,453,344. AUTOMOBILE BODY MOTION STABILIZER. THOMAS J. FAY, Brooklyn, N. Y. Filed Dec. 4, 1919. Serial No. 342,332. 15 Claims. (Cl. 188—130.)



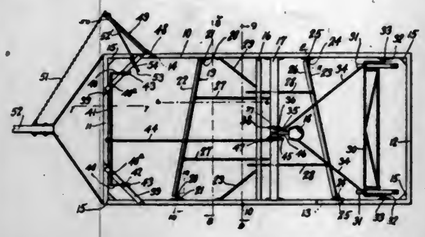
1. In a vibration absorber for vehicles having an axle and a chassis frame, the combination of a drum rigidly carried by the axle, a friction band extending substantially around the periphery of the drum, a connection between the band and chassis frame for oscillating the band around the drum as the frame oscillates toward and from the axle, a device connected to the band for tightening and loosening the same, and means connecting the device to the frame.

1,453,345. VEHICLE. JOSEPH B. FERGUSON, Newark, N. J. Filed Jan. 9, 1920. Serial No. 350,402. 34 Claims. (Cl. 280—106.5.)



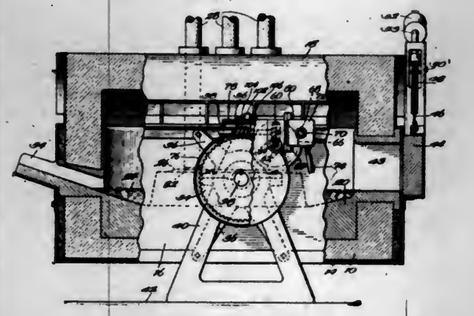
1. In a vehicle an axle, a frame resiliently supported from said axle, means on said frame normally out of contact with said axle for supporting said axle against shocks in a plane substantially parallel with the direction of motion of said vehicle, and rigid means connected to said frame for holding said axle and said last named means normally out of contact.

1,453,346. ROAD LEVELER. WILLIAM E. GADDIS, McCune, Kans., assignor of one-third to Hancle L. Stewart, McCune, Kans. Filed July 23, 1921. Serial No. 487,065. 2 Claims. (Cl. 37—143.)



1. A device of the character described comprising an elongated rectangular frame, a draft tongue connected therewith, transverse scraper blades mounted therein, an auxiliary mold board and blade pivotally mounted at one side of the main frame and extending laterally therefrom, a flexible member connected with the free end of said auxiliary mold board and with said draft tongue, a rod pivotally connected with the free end of said mold board, and a lever pivotally connected with said rod and movable over a notched segment whereby to hold said auxiliary mold board in a downwardly inclined direction for scraping a ditch beside a roadway.

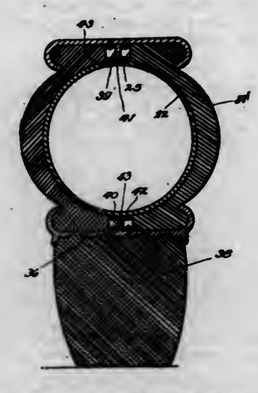
1,453,347. ELECTRIC FURNACE. ALFRED W. GREGG, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed July 11, 1921. Serial No. 483,653. 3 Claims. (Cl. 204—64.)



1. A metal receiving furnace box provided with doors thru which material may be placed at one end, a pouring spout at the other end, means for leading electric current into the furnace to effect melting of material placed therein, trunnions extending from opposite sides of the furnace, intermediate of said spout and said doors, journal supports for the trunnions, an electric motor mechanism supported by a trunnion for rocking the furnace on the trunnions and expansion permitting means on the support preventing rotation of the motor about the trunnion axis.

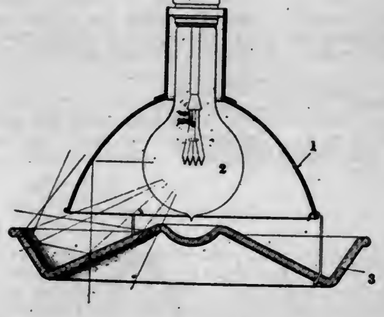
1,453,348. PUNCTUREPROOF PNEUMATIC TIRE. ROBERT GRIEVE and JOHN W. FLADING, Lansing, Mich. Filed May 8, 1922. Serial No. 559,371. 5 Claims. (Cl. 152—33.)

1. In a tire construction, an inner and an outer metallic rim, opposing flanges on said rims, a casing divided along the central radial plane of the tire defining annular abutting edges and adapted to enclose a pneumatic tube, an annular filled piece inserted between said abutting edges and said flanges having curved edges adapted to engage correspondingly shaped recesses provided along



the adjacent portions of said casing, said filler piece having H-shaped cross section and means securing said inner metallic rim to a wheel felloe.

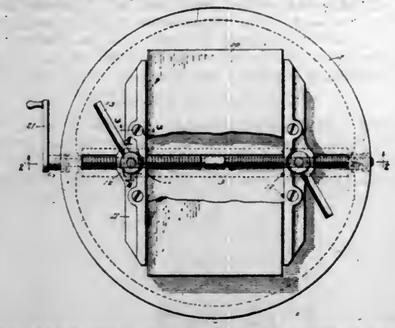
1,453,349. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed May 29, 1920. Serial No. 385,360. 2 Claims. (Cl. 240—78.)



1. In a lighting fixture, the combination with a source of light of a reflector enclosing said source and opening downwardly, a light reflecting and diffusing member positioned beneath and spaced from the reflector opening and of greater diameter than said opening, said diffusing member having its central portion cone-shaped and its outer portion in the form of an upwardly inclined flange.

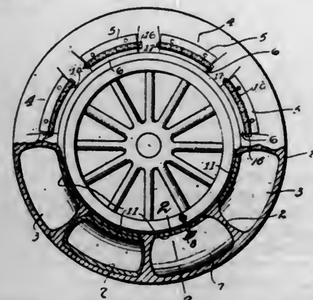
1,453,350. CLAMPING MECHANISM. HORACE W. HACKER, Chicago, Ill. Filed June 13, 1921. Serial No. 477,337. 4 Claims. (Cl. 90—60.)

1. In a clamping device, the combination with a bed formed with an elongated slot therein; of a shaft journaled upon said bed and beneath said slot along which the shaft extends; two blocks in threaded connection with said shaft, the threads in one block and the portion of the shaft engaging this block being opposite in direction to the threads in the other block and the portion of the shaft engaging this latter block, said blocks crossing and extending beyond said slot and underlying the bed; clamping jaws movable by said blocks along the slot, and movable up and down with reference thereto;



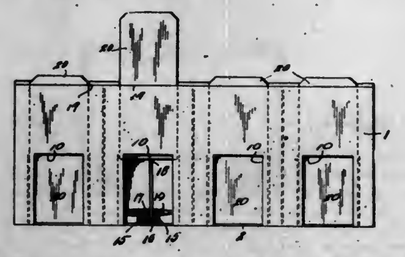
screw devices upon the blocks and in depressing engagement with the jaws; and springs between the jaws and bed for elevating the jaws.

1,453,351. TIRE. HARRY R. HAUPT, St. Louis, Mo. Filed May 24, 1920. Serial No. 383,730. 1 Claim. (Cl. 152—22.)



A tire comprising a shoe of the clincher-type having the interior partitioned off into separate semi-cylindrical compartments, an inflatable inner tube in each compartment, and filler means of separate sections removably positioned between the clincher beads of the shoe for supporting the tubes of the compartments, each of said sections having a concaved face disposed to form a smooth continuance of the inner curved walls of the shoe whereby each compartment is rendered substantially circular in cross section to prevent pinching or chafing of the inner tube.

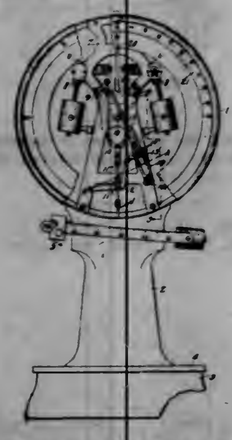
1,453,352. RAT AND MOUSE TRAP. JAMES HECKMAN, Electra, Tex., assignor of one-half to Sam L. Bargsley, Electra, Tex. Filed May 17, 1922. Serial No. 561,650. 2 Claims. (Cl. 43—61.)



2. In a rat and mouse trap having a plurality of trap chambers, independent covers to said chambers, the roof

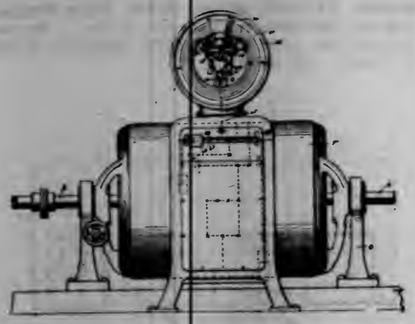
portion of the trap including a central partition crimped in S-shape to form guideways for two independent covers, slots in the roof of the trap, vertically slidable doors mounted in said slots, triggers arranged to hold said doors normally in raised position and to release and drop the doors upon receiving the weight of an animal, substantially as described and shown.

1,453,353. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 21, 1916. Serial No. 138,198. 13 Claims. (Cl. 265—37.)



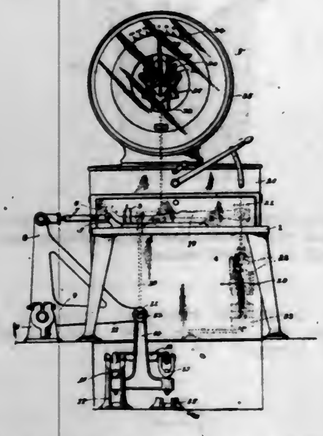
1. In a weighing scale, the combination of a platform, a pendulum fulcrumed upon fixed bearings and having one arm connected with the platform so as to be rocked downwardly upon imposition of a load upon the platform, indicating mechanism, a supplemental lever arranged between and connected with both the pendulum and the indicating mechanism, the pivot and connection with the pendulum of one arm of said lever being arranged in parallelogrammatic relation with the pivots of said pendulum arm, and the other arm of the lever being of variable length between the pivot and the point of connection with the indicating mechanism and arranged to impart increased uniform movement to the indicating mechanism when the pendulum is rocked.

1,453,354. DYNAMOMETER. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 15, 1918. Serial No. 249,969. 13 Claims. (Cl. 265—24.)



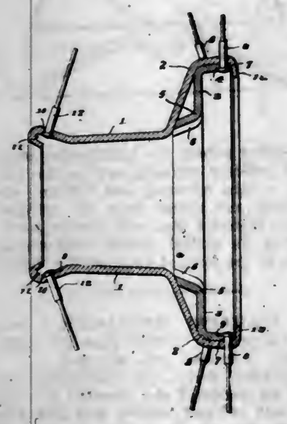
1. In a dynamometer, a torque resisting element, an indicating attachment employing a dial, an indicating hand swinging thereover, a pendulum arranged to counterbalance the force exerted by the machine to be tested, a main lever connected with the pendulum, a graduated beam and poise mounted on said lever, and a series of interconnected levers arranged between the main lever and the torque resisting element.

1,453,355. WIREDRAWING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1920. Serial No. 361,249. 15 Claims. (Cl. 205—16.)



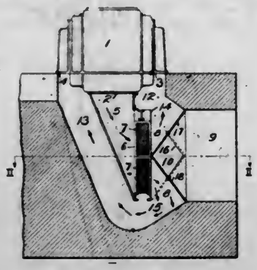
1. In wire drawing apparatus, a movable member adapted to engage a wire being drawn, and a force measuring instrument operatively connected to said member to indicate the force exerted in moving said member.

1,453,356. WHEEL. HENRY A. HOUSE, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Sept. 24, 1919. Serial No. 325,852. 2 Claims. (Cl. 301—9.)



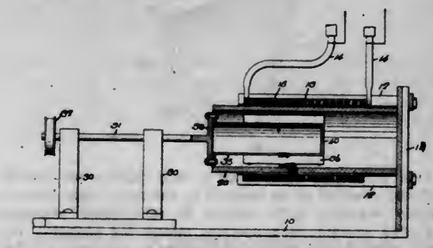
1. The combination with a hub shell, of an annular member, of Z form in cross section, inserted in the inner end of said shell, one bend of said member being provided with a driving surface, and spokes laced through the other bend of said member and the hub shell.

1,453,357. SYSTEM OF VENTILATION. JOHN ERNEST JOLLEY, Stretford, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1920. Serial No. 415,065. 8 Claims. (Cl. 171—252.)



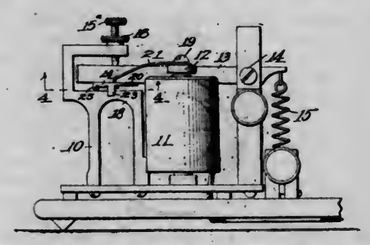
1. A cooling system for an electrical apparatus comprising a casing, a plurality of passages communicating therewith through which air is adapted to be circulated, a cooling device disposed in the path of the air circulated through said passages and means for selectively including said cooling device in a closed circulation of air through said casing and for preventing the air passing through said cooling device from circulating through said casing.

1,453,358. PROCESS OF JOINING METALS. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 15, 1920. Serial No. 430,841. 10 Claims. (Cl. 219—12.)



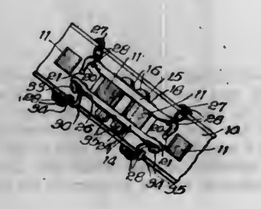
1. The process of joining metals which comprises placing the metals in proper relative position together with suitable bonding materials and heating the assembly by generation of heat within the body of one or more of the metals.

1,453,359. TELEGRAPH SOUNDER. JOHN H. KINSLEY, Clinton, Mass. Filed Mar. 27, 1920. Serial No. 369,299. 5 Claims. (Cl. 178—98.)



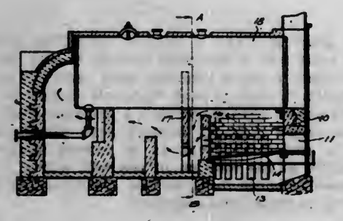
1. In a telegraph sounder, a frame, an armature, a lever pivoted to said frame, adjusting means effective to determine the normal range of movement of said lever, and an additional adjusting device effective to determine for said lever a relatively long or a relatively short stroke independent of said normal adjusting means, said device having two separate engaging portions and being selectively movable to either one of two definite operative positions in each of which one engaging portion only is effective to determine the length of stroke.

1,453,360. ANTISKID DEVICE FOR VEHICLES. WILLIAM H. KRUG, Oshkosh, Wis. Filed Jan. 31, 1919. Serial No. 274,163. 11 Claims. (Cl. 152—14.)



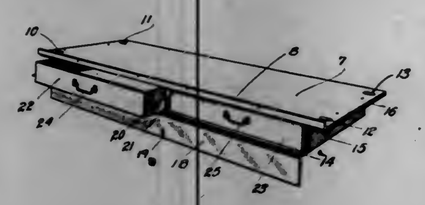
1. The combination with a vehicle wheel of means for securing an anti-skid chain thereto, comprising a pair of bars, means for clamping said bars upon opposite sides of a pair of adjacent spokes, comprising means for securing said bars to spokes spaced various distances apart, one of said bars having an offset end portion provided with a key-hole slot, the other one of said bars having a shank extending toward said other bar and provided with a crosshead, a chain having a link at one end for manipulation over said crosshead, and a coupling member at the other end of said chain, comprising a head adapted to be manipulated through said key-hole slot, the length of said chain being such as to prevent said link from becoming detached from said shank without first uncoupling said coupling member from said last-named clamping bar.

1,453,361. FURNACE. WILLIAM J. LAWRENCE, Toledo, Ohio. Filed Feb. 19, 1920. Serial No. 360,008. 3 Claims. (Cl. 110—75.)



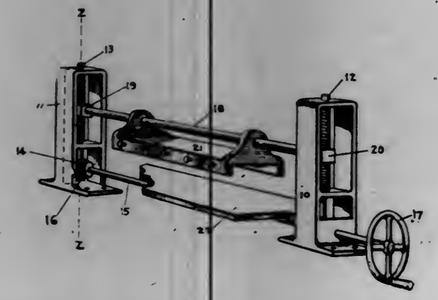
1. In a furnace, the combination of a combustion chamber, a grate therefor, the side walls of said chamber being formed with air passages extending from beneath the grate and opening into the combustion chamber above the grate, dampers controlling said passages, a fuel door, means operated by the closing of said door to open said dampers, and automatic means to effect a gradual movement of the dampers toward closed position.

1,453,362. TOOL-BOX ATTACHMENT FOR MOTOR VEHICLES. EMMETT O. LOVELAND, Kansas City, Mo. Filed Mar. 24, 1922. Serial No. 546,292. 5 Claims. (Cl. 224—29.)



4. The combination with the running board of a motor vehicle, of a tool box secured to the underside thereof and having an opening at its outer edge, a transverse partition in the tool box having a laterally projecting portion, and a door hinged to the edge of the opening and having an opening through which the projection may pass, the projection having an opening for the hasp of a padlock.

1,453,363. PRINTING PRESS. HARRY B. MCBEE, St. Louis, Mo., assignor to McBee Binder Company, Athens, Ohio. Filed Sept. 26, 1921. Serial No. 503,317. 1 Claim. (Cl. 101—316.)



In a printing press, a pair of companion standards spaced apart and a bed plate secured to and extending beyond same; a screw threaded shaft vertically mounted for rotation in each of said standards; means to rotate the said shafts simultaneously; a carrying shaft for a make-up frame mounted between said screw threaded shafts in such manner as to be carried upwardly or downwardly of the rotation of the said shafts; a make-up frame depending from the last mentioned shaft, substantially as shown and described.

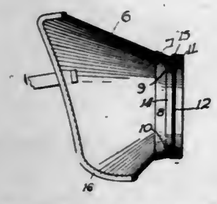
1,453,364. DOOR BUFFER. HERMAN C. MAISE, Springfield, Mass., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, a Corporation of Pennsylvania. Filed June 21, 1916. Serial No. 104,899. 2 Claims. (Cl. 16—86.)

1. A device of the character described comprising a substantially U-shaped metallic casing having inner and outer walls and an integral base connecting said walls, a resilient pad positioned between the inner and outer walls and seating on said base, the outer wall being of less length than said pad and the pad presenting a semi-



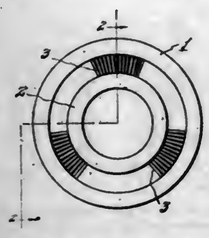
circular portion projecting beyond said outer wall, and means for retaining said pad in the casing.

1,453,365. RESPIRATOR. ROBERT MALCOM, Chicago, Ill. Filed Dec. 15, 1920. Serial No. 430,865. 3 Claims. (Cl. 128—146.)



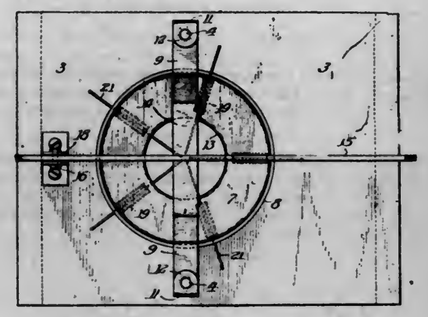
1. A respirator comprising a body portion of flexible material adapted to be secured to the face, rings concentrically arranged with respect to each other engaging one edge of said body portion, means for engaging the inner edge of said rings and forming a shoulder, a filter member, and a retaining member engaging said means and holding said filter in place.

1,453,366. METHOD OF MANUFACTURE OF ANTI-FRICTION BEARINGS. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Apr. 10, 1920. Serial No. 372,898. 5 Claims. (Cl. 51—278.)



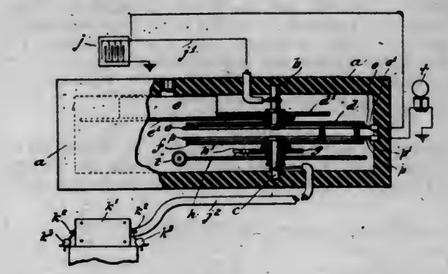
1. The steps in the manufacture of antifriction bearings which consist in assembling the race members in normal relation and in arranging the race members thereof in assembled relation by the insertion between said race members of resilient spacing members and simultaneously grinding the opposite faces of the race members.

1,453,367. PIE CUTTER. CHARLES J. SCHIPPLOCK and JACOB C. KESSLER, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,107. 1 Claim. (Cl. 146—7.)



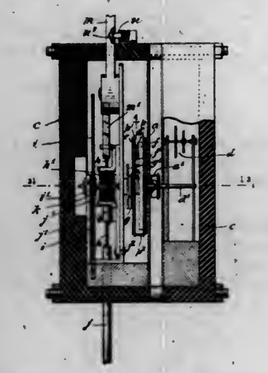
In a pie cutter, the combination with a base, of a pair of vertical standards projecting upwardly from said base, a slidable head mounted on said standards, said head including a horizontally disposed disk, radial knife holders carried by said disk, knives detachably supported by said holders and projecting toward said base, springs surrounding the standards and normally urging said disk upwardly, an upright disposed at one side of the disk, a handle pivoted to said upright, and a yoke carried by said disk and projecting thereabove adapted to be engaged by said handle to lower the disk against the tension of said coil springs.

1,453,368. SPEED REGULATOR FOR AUTOMOBILES. FREDERICK W. TEVES, East Elmhurst, N. Y., assignor of one-half to Arthur Hazen Green, New York, N. Y. Filed Jan. 25, 1922. Serial No. 531,564. 15 Claims. (Cl. 175—355.)



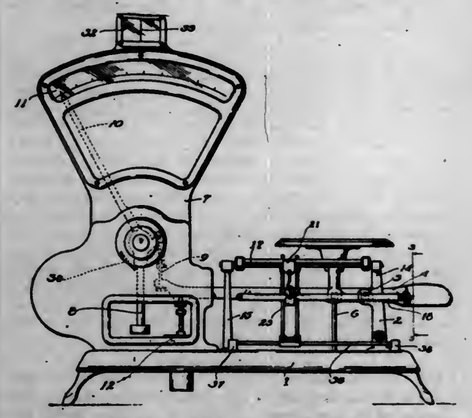
1. A speed regulator for automobiles embodying therein a constant speed member, means whereby said member is actuated, a variable speed member, means whereby said variable speed member is normally actuated in unison with said constant speed member, but may be actuated independently thereof when its speed exceeds that of said constant speed member, means operatively connected with the running gear of an automobile, normally inoperative connections between said means and said variable speed member, whereby said member may be actuated at a speed greater than, and independently of, said constant speed member, and co-operating electrical contacts carried by said members respectively, whereby when said members are actuated in unison, the circuit to the ignition system of an internal combustion engine is closed, and is interrupted when said variable speed member is actuated independently of, and at a speed greater than, said constant speed member.

1,453,369. SPEED REGULATOR FOR AUTOMOBILES. FREDERICK W. TEVES, East Elmhurst, N. Y., assignor one-half to Arthur Hazen Green, New York, N. Y. Filed Mar. 4, 1922. Serial No. 541,131. 10 Claims. (Cl. 175—353.)



1. A speed regulator for automobiles embodying therein a constant speed member, a variable speed member, mechanical and electrical connections between said members, whereby said variable speed member may be driven by said constant speed member, and the circuit to an ignition system is controlled, a plurality of differentially operative actuating means, connections between said actuating means respectively and said variable speed member, said connections permitting movement of said member independently of said actuating means, and means operatively connected with the running gear of a vehicle and capable of being selectively engaged with said actuating means to cause a change in the speed ratio between said variable speed member and the running gear of a vehicle.

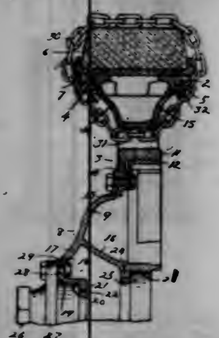
1,453,370. WEIGHING SCALE. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 7, 1921. Serial No. 443,026. 9 Claims. (Cl. 265—32.)



1. In a weighing scale, in combination, a pivoted member, means for variably resisting movement of said member whereby it is caused to assume different posi-

tions corresponding respectively to the weights of various loads on the scale, a second movable member, means for connecting said second movable member to said pivoted member, whereby said second movable member is caused to move to positions corresponding to the weights of such loads multiplied by selected prices per pound, a chart carried by said second movable member, and means for projecting a magnified indication from said chart.

1,453,371. VEHICLE WHEEL. ELMER F. WATERBOR, Detroit, Mich., assignor to Michigan Malleable Iron Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 8, 1919. Serial No. 275,704. 2 Claims. (Cl. 301—65.)



1. In a vehicle wheel, the combination with a hub, of a web extending from said hub, said web being fashioned to engage one side of a gear ring, an annular flange extending from said web and surrounding said gear ring, spaced bearings for supporting a tire rim, and connections between said bearings and flange.

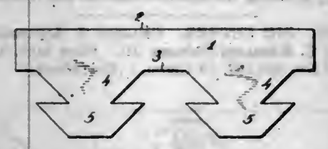
1,453,372. CONVERTIBLE AUTOMOBILE BODY. GATT H. WONG, Chicago, Ill. Filed Oct. 8, 1921. Serial No. 506,331. 2 Claims. (Cl. 155—7.)



1. In a convertible automobile body of the character described, front and rear seats having seat-cushions and back-rests, the seat-cushions and back-rests being readily adjustable into horizontal alignment so as to form a bed, means whereby the front seat-cushion may be raised from an angular to a horizontal position, a slidably pivotal hinge mounted at each end of the front back-rest whereby said back-rest may be tilted backwardly into horizontal alignment with the seat-cushion and slid into abutment, therewith, means whereby the rear seat-cushion may be slid forwardly and supported in horizontal alignment with the front back-rest, and a slidably pivotal hinge mounted at each end of the rear seat back-rest whereby the bottom of the rear back-rest may be drawn forwardly to the rear seat-cushion and the top of the back-rest dropped downwardly.

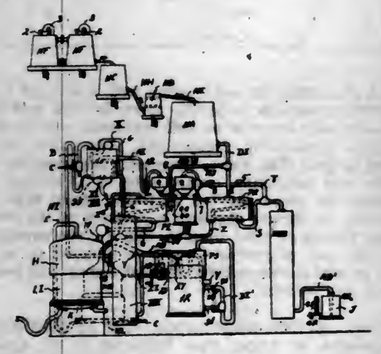
1,453,373. SHINGLE STRIP. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Company, a Corporation of New Jersey. Filed Aug. 5, 1921. Serial No. 489,971. 6 Claims. (Cl. 108—7.)

1. A prepared roofing strip having its lower edge formed with alternating projections and recesses, each projection consisting of two mutually similar symmetrical portions, the projections and recesses being substantially similar in size and shape but reversed in position, the



ends of the strip being so shaped that when two of said strips are laid end to end, the contiguous ends form a recess which is similar to the first-mentioned recesses.

1,453,374. PROCESS AND APPARATUS FOR THE MANUFACTURE OF NONPOTABLE ALCOHOLIC LIQUID. FRANCISCO DE MOURA ACCIOLY, Rio de Janeiro, Brazil. Filed Oct. 20, 1922. Serial No. 595,855. 2 Claims. (Cl. 195—6.)



1. A process for the production of nonpotable alcoholic liquid, said process comprising mixing an alcohol-containing substance with acids and neutral tartrate of potash; mixing with the liquor thus produced a further preparation including saccharine juices, tar, naphthaline and acid; distilling the mixture to obtain alcohol; adding to the alcohol thus produced an enriching mixture including sulphuric ether, naphtha, oils, muriatic acid, tar and naphthaline; and distilling the enriched mixture.

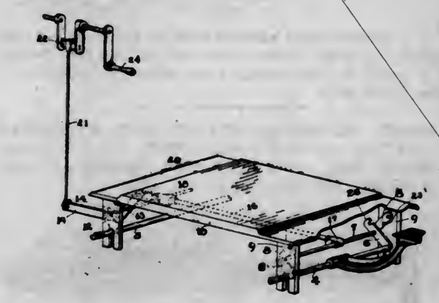
1,453,375. MAUSOLEUM. WILLIAM H. ALLEN, Cleveland, Ohio. Filed Feb. 13, 1922. Serial No. 536,180. 3 Claims. (Cl. 72—7.)



1. In a mausoleum building having a wall, a second wall which extends substantially parallel with the first

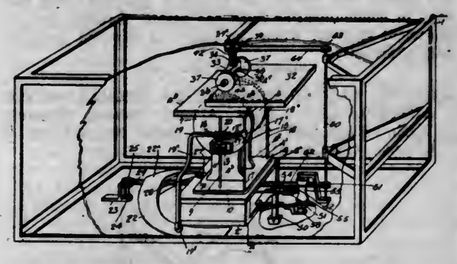
wall, said second wall having as a part thereof metallic horizontally extending members forming a plurality of rectangular spaces, a plurality of metallic containers one end of each container occupying a rectangular space between adjacent vertical and horizontally extending members the opposite end of said container being supported adjacent the first mentioned wall, and a door for said container.

1,453,376. SCALE-PLATFORM LIFTING MECHANISM. HARRY S. BERGEN, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1920. Serial No. 361,158. 5 Claims. (Cl. 265—72.)



1. In a device of the class described, in combination, a weighing scale including a base, an upright portion and a platform, and platform lifting means including a handle supported by said upright portion and a pedal supported by said base.

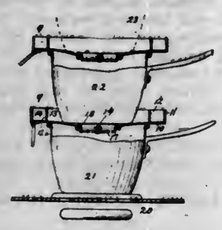
1,453,377. MAP-DRAWING MACHINE. HENRY COVERLEY CAMPBELL, New York, N. Y. Filed Mar. 2, 1921. Serial No. 450,166. 2 Claims. (Cl. 234—8.)



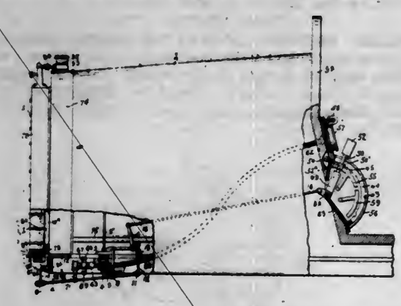
1. In a map drawing machine, the combination with the driving gear and steering gear of an automobile, of a pair of suitably mounted vertically set gears, a drawing board resiliently held in contact with the peripheries of said gears, a pencil point resiliently held against the board, a friction pinion held in engagement with the face of each of said gears, means for driving said pinions operated from the driving mechanism of the vehicle, and means for moving said pinions radially of the gears in opposite directions operated from the steering mechanism of the vehicle.

1,453,378. STEAM RING. SANNA CLIFFORD, Ossining, N. Y. Filed Apr. 1, 1922. Serial No. 548,788. 4 Claims. (Cl. 53—1.)

1. A device for use in connection with cooking vessels comprising a base plate provided with a central aperture and adapted to rest as a closure on the top of a lower vessel, and a pair of spaced flanges projecting above said base plate, the inner of said flanges being disposed in spaced relation with the aperture of said base plate and forming therewith a central chamber for the support of an upper cooking vessel and also forming with the outer flange an outer rim chamber adapted to utilize the escaping heat and serve as a heating compartment.

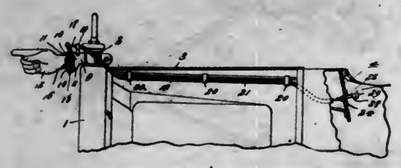


1,453,379. MANUAL OPERATING MEANS FOR AUTOMATIC TEMPERATURE-CONTROL SYSTEMS. HARRIS SHAUL COY, Anderson, Ind. Filed Mar. 5, 1918. Serial No. 220,583. 2 Claims. (Cl. 236—35.)



1. In a motor driven vehicle including a radiator, a plurality of air current controlling blades associated with said radiator, a movable member operatively coupled to said air current controlling blades, a casing including a segmental portion and having segmentally arranged ratchet teeth, a member swinging within said casing and having a longitudinal socket, coupling means between said swinging member and said blade engaging member, a rod slidably engaging in the socket of said swinging member and having a pawl device carried by said rod and engaging said ratchet teeth, a spring within the socket of said swinging member and operating to hold the pawl in yieldable engagement with the ratchet teeth, and a handle member having a reduced portion to engage the socket of said swinging member.

1,453,380. VEHICLE SIGNAL. THOMAS A. CROTTY, Danbury, Conn. Filed Oct. 21, 1922. Serial No. 595,910. 1 Claim. (Cl. 116—46.)



In a signal for motor vehicles, a clamp secured to the water filling spout of the vehicle, and having a forwardly projecting arm formed thereon, an indicating hand pivotally secured to the arm of the clamp by a vertically extending bolt member having a cranked upper portion, a flexible wire secured at one end to the crank portion of

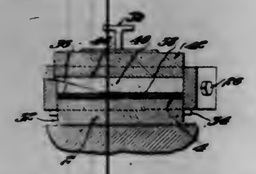
the bolt and secured at its opposite end to an operating rod for the indicating hand, the said rod adapted to extend through a plate secured to the instrument board of the vehicle and having a forwardly projecting sleeve portion received within an opening in the instrument board, spaced notches formed upon the operating rod and adapted for selective engagement with a transversely extending lip formed upon the said plate for retaining the indicating arm in certain set positions.

1,453,381. MACHINE FOR MAKING TILES. DOMINICK D'ALESSANDRO and RAFFAELE PACE, Quincy, Mass.; said Pace assignor to said D'Alessandro. Filed Mar. 1, 1921. Serial No. 448,900. 2 Claims. (Cl. 25—42.)



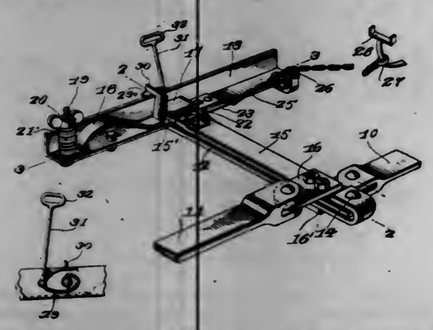
1. The combination with a mold having bottom and side walls, of a pattern adapted to rest upon the bottom wall of the mold, a portion of the pattern being adapted to contact with a side wall to maintain the pattern properly positioned within the mold, and the pattern having a bar spaced from the bottom wall of the mold connecting the pattern to said portion.

1,453,382. METHOD OF MAKING TILES. DOMINICK D'ALESSANDRO and RAFFAELE PACE, Quincy, Mass.; said Pace assignor to said D'Alessandro. Original application filed Mar. 1, 1921. Serial No. 448,900. Divided and this application filed Nov. 3, 1922. Serial No. 598,720. 5 Claims. (Cl. 18—61.)



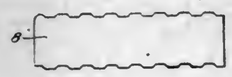
1. The method of making tiles that comprises successively positioning a pattern upon the bottom wall of a mold, pouring a film-like surface layer of differently colored liquid cements upon the bottom wall between the walls of the pattern, removing the pattern to permit the differently colored liquid cements to flow towards each other and form sharp dividing lines of demarcation, introducing a layer of granular cement over the liquid cement and subjecting the whole to pressure.

1,453,383. TRACTOR HITCH. FRED P. DEDERING, Kiel, Wis. Filed Jan. 14, 1922. Serial No. 529,262. 3 Claims. (Cl. 180—14.)



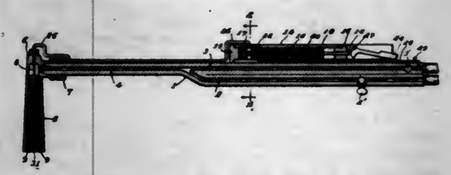
1. A hitching device for a tractor including a beam, a bar movably mounted on the beam, a means on the beam and normally contracted by the movable bar for holding the bar against movement under normal pulling strains but releasable by said bar under excessive strains, and means connected with the movable bar and with the clutch pedal of the tractor for moving the pedal to throw out the clutch.

1,453,384. METHOD OF MAKING PRINTING-PLATE BLANKS AND PRODUCT THEREOF. JOSEPH S. DUNCAN, Chicago, Ill. Filed Mar. 13, 1922. Serial No. 543,161. 12 Claims. (Cl. 101—369.)



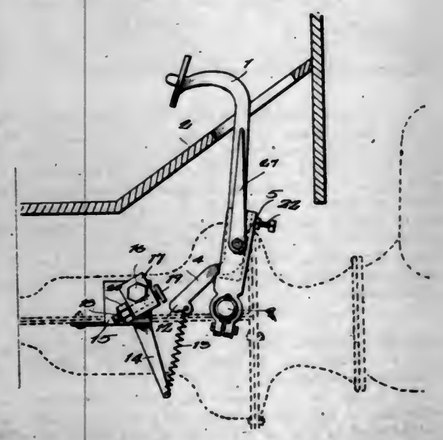
1. A printing plate blank of uniform thickness and consisting of a strip having projections on one face thereof of a height to compensate for any deficiency in the thickness of the strip.

1,453,385. COMBINED OXYGEN AND ACETYLENE CUTTING AND WELDING TORCH. PAUL DZUTSOFF, Seattle, Wash. Filed July 5, 1922. Serial No. 572,844. 4 Claims. (Cl. 158—27.4.)



1. The combination with a blow pipe, of a gas-controlled valve comprising a chamber, a piston movable therein a piston rod connected with said piston, a conduit leading from the chamber to the nozzle of the blow pipe, a supply conduit, a chambered abutment to which said supply conduit connects and through which the piston rod passes, said piston rod having a gas-conducting passage in communication with the piston chamber and the abutment chamber when the piston is removed from the said abutment.

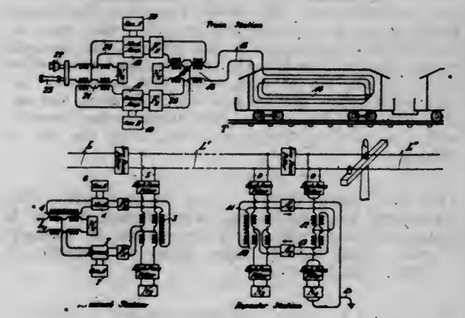
1,453,386. CLUTCH CONTROLLING MECHANISM FOR AUTOMOBILES. JOHN ALBERT EWELL, Quinault, Wash. Filed Sept. 28, 1922. Serial No. 591,123. 5 Claims. (Cl. 74—81.)



1. In combination with a clutch, a lever for directly controlling the clutch provided with a longitudinal slot,

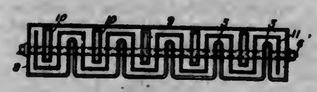
a foot pedal in the form of a bell crank lever pivotally mounted in the slot with a vertical arm of the bell crank lever having one end seated in the slot, the second arm projecting outwardly from the slot, a set screw projecting into the slot and engageable with the vertical arm to limit movement of said arm in the slot, a bracket spaced from and mounted in a fixed position relative to the second arm, a spring connecting the bracket with the free end of the second arm, a set screw adjustable in the bracket and having a head adjacent the free end of the second arm, the free end of the second arm having a rounded portion adapted to engage the head of the last mentioned set screw when the foot pedal is operated whereby the slotted lever will be oscillated at a slower rate of speed than the foot pedal during certain periods of oscillation of said foot pedal.

1,453,387. SYSTEM FOR COMMUNICATING WITH MOVING VEHICLES. LLOYD ESPENSCHIED, Hollis, and HERMAN A. AFFEL, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 30, 1919. Serial No. 327,398. 6 Claims. (Cl. 179—82.)



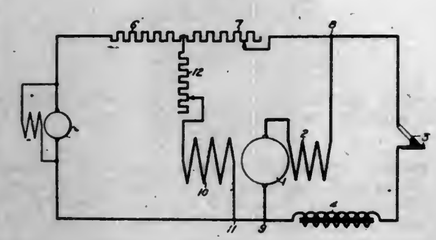
1. In a system of communication the combination of a transmission line arranged for the transmission of high frequency carrier currents having signal variations imposed thereon, and a transportation device moving in the vicinity of said transmission line, said transporatation device including apparatus wherein may be produced high frequency carrier currents by induction from the high frequency carrier currents transmitted over said transmission line, means in said transportation device for receiving the carrier currents induced in said apparatus, said means comprising a vacuum tube amplifier demodulator and a telephone receiver, and means in said transportation device for transmitting carrier currents to said apparatus; said means comprising a vacuum tube amplifier modulator and a telephone transmitter.

1,453,388. ELECTROLYTIC CONDENSER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1919. Serial No. 335,426. 4 Claims. (Cl. 175—315.)



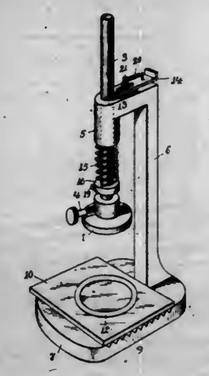
1. An electrolytic cell comprising a casing formed with curved side walls and upwardly extending, tubular bottom portions, an electrolyte disposed therein, a plurality of film-forming electrodes of corresponding shape immersed in the electrolyte and disposed in spaced relation with respect to each other and to the casing and means for maintaining the electrodes in position.

1,453,389. ARC-WELDING DYNAMO-ELECTRIC MACHINE. KLAUS L. HANSEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 25, 1919. Serial No. 326,294. 7 Claims. (Cl. 171—223.)



1. In an arc welding system comprising a plurality of electrodes, a generator connected thereto, an independent source of electric current, a field winding connected in series with the generator, another field winding so connected to the independent source of current as to oppose the action of the field winding connected in series with the generator, a resistor connected to the independent source of current and to the generator, and another resistor connected to the source of current and in series with the field winding connected thereto.

1,453,390. SPLASH COUNTERDROP PRESS. HAROLD HELLBERG, Somerville, Mass. Filed Aug. 26, 1921. Serial No. 495,463. 2 Claims. (Cl. 76—4.)

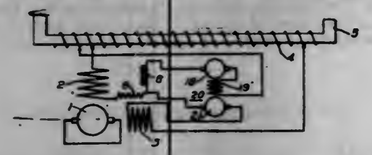


1. A die forming mechanism comprising a base having a horizontal supporting surface, a standard, a spindle slidably supported by said standard to descend vertically toward said surface and having means at its lower end for carrying a die member, and a wire ring removably supported upon said surface and loosely fitting the periphery of said die member.

1,453,391. ALTERNATING-CURRENT COMMUTATOR GENERATOR. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,332. 5 Claims. (Cl. 172—276.)

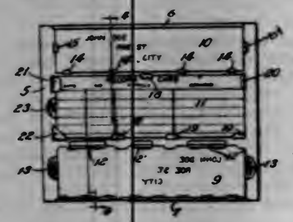
1. The combination with a dynamo-electric machine of the commutator type having exciting and inducing

field windings adapted to carry currents of a given frequency, of means associated with said exciting field



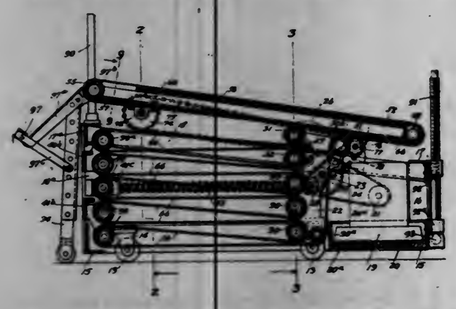
winding constituting substantially a negative resistance for relatively low-frequency currents only.

1,453,392. PRINTING DEVICE. JAMES P. JACKSON, Chicago, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 17, 1922. Serial No. 553,481. 5 Claims. (Cl. 101—369.)



1. A printing device comprising a frame, a card, devices on the frame to engage the card at the ends thereof and spaced from each other a distance greater than the length of the card to permit endwise movement of the card, and a stop arranged to engage one end of the card to hold it against endwise movement and beneath said devices.

1,453,393. PORTABLE EXTENSIBLE CONVEYER. JAMES JESSEN, Minneapolis, Minn. Filed May 14, 1920. Serial No. 381,410. 14 Claims. (Cl. 198—8.)



1. An extensible and contractible conveyer comprising a main frame, a telescoping conveyer frame mounted on said main frame, an endless belt operating over said conveyer frame, movable pulleys, over which said belt travels, mounted on said main frame, said pulleys moving a linear distance inversely proportional to the number of moving pulleys and the distance said conveyer frame travels when telescoped to maintain an even tension of said belt.

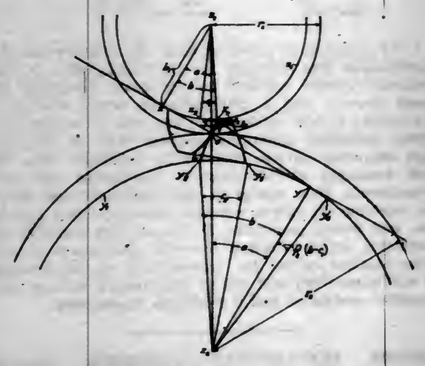
14. In an extensible and contractible conveyer, the combination with a main frame and an outer supporting conveyer frame section pivotally connected to said main frame, of inner and intermediate conveyer frame sections telescopingly connected to said supporting conveyer frame section, forward and rear stops arranged in said conveyer frame sections to limit the telescoping movement of said inner and intermediate frame sections, geared means actuating to extend said conveyer frame sections and means for successively locking said inner and intermediate frame sections together, and causing said geared means to successively actuate said inner and intermediate conveyer frame sections when said conveyer frame sections are extended.

1,453,394. VENTILATING INSOLE. JOSEPH KLEPAC, New York, N. Y. Filed Feb. 10, 1921. Serial No. 443,886. 9 Claims. (Cl. 36—3.)



3. An independent shoe insole comprising superposed spaced layers secured together at their edges, said insole having inlet openings at one end and exit openings at the other end, and means operable upon compression of the layers toward each other and subsequent release to inspirate through one set of openings and expirate through the other, said insole being movable within the shoe and with the foot during the act of walking.

1,453,395. GEAR TOOTH. JOHN M. LABBERTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,069. 2 Claims. (Cl. 74—41.)



1. The method of determining the pressure angle of a pair of co-operating gear wheels having involute teeth, when the gear center distance, the gear ratio and the diametral pitch are known, which comprises the selection of a numerical value for the percentage of rolling action between co-operating teeth, which value is less than unity, calculating the values c_1 and c_2 in terms of b from the formulæ.

$$c_1 = \left[\frac{K(2+R)-1}{1+RK}\right]b$$

$$c_2 = \left[\frac{K\left(2+\frac{1}{R}\right)-1}{1+\frac{K}{R}}\right]b$$

wherein K represents the assumed numerical value of rolling action and R = gear ratio which is equal to

or less than unity, substituting the values of c_1 and c_2 in the formula

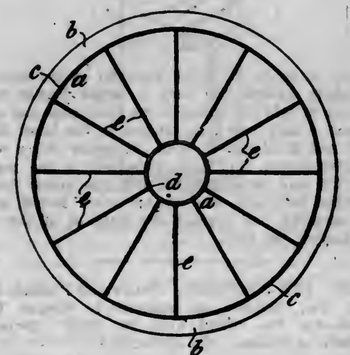
$$\frac{\pi}{g_T} = \frac{\cos a}{2}\left[\sqrt{(b+R(b-c_1))^2 - c_1^2}\right]$$

where

g_T = number of teeth in larger gear wheel,
b = tan a and
a = pressure angle

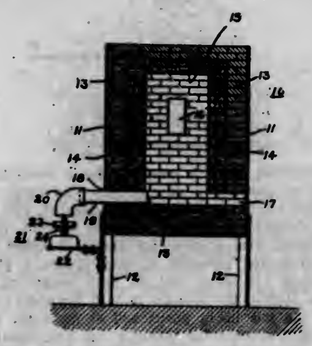
and then solving for a.

1,453,396. DART BOARD OR LIKE TARGET. EDWARD HENRY ALBERT LEGGATT, Woodford Green, England. Filed Jan. 29, 1923. Serial No. 615,652. 3 Claims. (Cl. 124—15.)



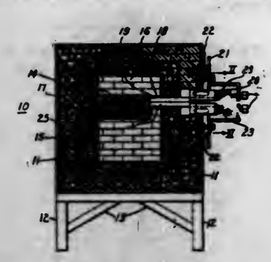
1. A dart board consisting of a plate, a metal frame fixed to the plate, and adapted to form compartments, and a filling of plastic material in the frame.

1,453,397. PROTECTION OF RESISTORS OF ELECTRIC FURNACES. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1921. Serial No. 463,220. 1 Claim. (Cl. 204—64.)



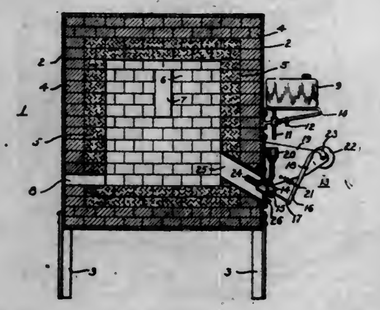
In an electric furnace, the combination with a housing enclosing a furnace chamber and having an opening near the bottom of said chamber for introducing material to be heated, and a carbonaceous resistor located near the top of said chamber, of a source of hydrocarbon vapor comprising an oil flame, means for conducting the products of combustion of said flame into said chamber near the bottom thereof and means for varying the amount of hydrocarbon vapor produced by said flame.

1,453,398. SELF-TIGHTENING WATER-COOLED TERMINAL. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1921. Serial No. 463,221. 3 Claims. (Cl. 204—64.)



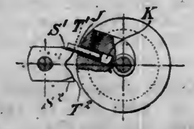
2. In an electric furnace, the combination with a resistor comprising a plurality of refractory elements, a terminal electrode operatively engaging said resistor, a wedging contact terminal mounted on the end of said electrode and resilient means for pressing said terminal, electrode, and resistor into close operative engagement, of auxiliary means for maintaining said resistor elements in operative position independent of said electrode, contact terminal and resilient means.

1,453,399. MEANS FOR PROTECTING RESISTORS IN ELECTRIC FURNACES. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 25, 1921. Serial No. 464,290. 11 Claims. (Cl. 204—64.)



3. In an electric-resistance furnace, the combination with a furnace chamber and a carbonaceous resistor therein, of means for introducing a hydrocarbonaceous fluid into said chamber under pressure, said means comprising a cam-and-spring-operated plunger pump.

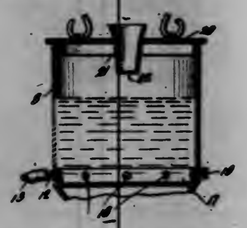
1,453,400. PULLEY. MARTIN LUBASH, Richmond Hill, N. Y., assignor of one-half to James Fitzsimmons, Baldwin, Long Island, N. Y. Filed May 17, 1920. Serial No. 381,857. 6 Claims. (Cl. 254—191.)



1. In a pulley, the combination with a sheave for a rope, and a clamping device normally ineffective to pre-

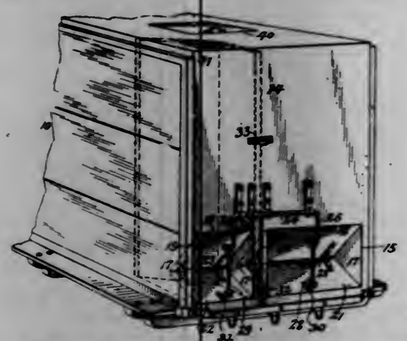
vent relatively slow movements of said rope over said sheave in either direction, of means rendered effective by an abnormal movement of said rope in one direction due to breakage, to cause said clamping device to clamp said rope and sheave and prevent further movement in the same direction.

1,453,401. PLANT WATERER. MARY W. MATTSON, Hansboro, N. Dak. Filed Nov. 20, 1920. Serial No. 425,438. 1 Claim. (Cl. 137—21.)



A plant waterer including a water receptacle provided with an annular series of outlet openings adjacent the bottom of the receptacle, a single common closure for all of said openings insertible and operable from the top of the receptacle for completely or partially closing communication through the latter simultaneously, and individual closing means for each of said openings.

1,453,402. CLOSURE FOR STORAGE COMPARTMENTS. FREDERICK MEYER, Buffalo, N. Y. Filed June 15, 1920. Serial No. 389,111. 3 Claims. (Cl. 296—24.)



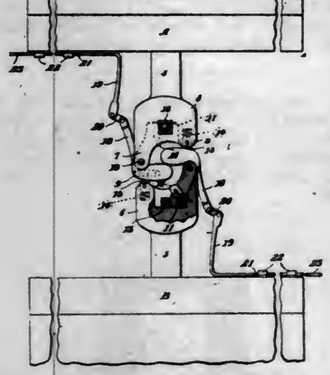
1. A storage compartment having an outlet opening, a bottom extending inwardly from the lower end of said outlet opening, an upright outer wall above said outlet opening, and an inclined wall which slopes from the lower end of said outer wall downwardly and inwardly to the upper end of said outlet opening, a delivery chamber communicating at its inner end with said compartment through said outlet opening and having upright longitudinal walls and a bottom extending outwardly from the lower end of said outlet opening, and a lid controlling said outlet opening and normally inclining from its inner end downwardly toward its outer end and pivoted at its inner end to said inclined wall at the upper end of said outlet opening and adapted to engage its front end with the bottom of said delivery chamber.

1,453,403. RESILIENT HEEL. JOSEPH A. PARRELLA, Washington, D. C. Filed Nov. 17, 1921. Serial No. 515,850. 2 Claims. (Cl. 36—35.)

1. A heel lift of the character described of concavo-convex formation and formed of resilient material, said lift provided with an arcuate groove in its concave upper surface extending along its back and sides and terminating short of the front edge, a plurality of nail holes being formed in the lower face of the lift and in alignment with the said groove, concavo-convex washers embedded in the material of the lift and in alignment with the said nail holes and said groove, the concave face of said washers lying adjacent the concave upper surface of the lift, said washers being of such material and thickness as to allow them to be inverted by the securing nails so as to force the material of the groove to bind tightly against the heel, a recess formed in the upper face of said lift adjacent the front edge and spaced therefrom, a nail hole being formed in the lower face of the lift and in alignment with the recess and a washer of concavo-convex formation embedded in the material of the lift and in alignment with the recess and the last named nail hole, said washer when forced upward by the securing nail binding the material of the recess firmly against the heel.



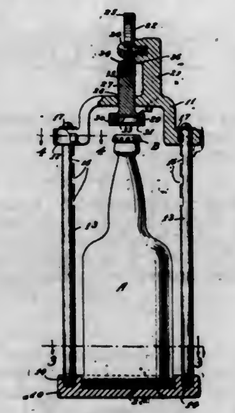
1,453,404. CAR COUPLING. VALENTINE PICKLO, Johnstown, Pa., assignor of one-half to Gregor Walat, Johnstown, Pa. Filed Feb. 16, 1922. Serial No. 536,997. 1 Claim. (Cl. 213—109.)



The combination with a coupling head involving an angular pivoted jaw and a pair of legs, one longer than the other and to which said jaw is pivoted, the outer end of the shorter leg having a socket therein, the inwardly extending arm of said jaw having a socket therein, a cushion spring mounted in each socket, a plunger confined within the outer end of each socket and engaged by the spring, the plunger in said inwardly extending arm of the jaw being positioned at an angle to the plunger in said shorter leg whereby the first mentioned plunger is substantially parallel with the other plunger when the angular pivoted jaw is in its open inoperative position for purposes specified.

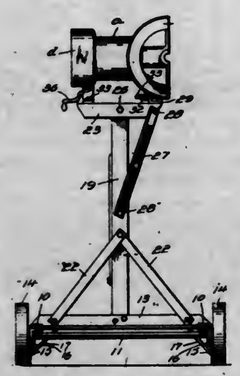
1,453,405. BOTTLE CAPPER. OCRON S. PLATT, Bridgeport, Conn. Filed Aug. 19, 1921. Serial No. 493,581. 2 Claims. (Cl. 226—84.)

1. A bottle capper consisting of a bottle supporting member, tie rods thereon, a yoke upon the tie rods and spaced from the supporting member, the yoke having an opening and carrying a cam support consisting of an upstanding lug with bearing surface on one side thereof, a cam pivoted upon the cam support, a closing



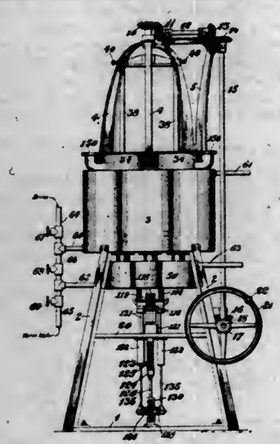
die with plunger slidably arranged in the opening in the yoke, the plunger and cam having operative connection on one side only of said plunger and cam, and means for actuating the cam to depress the plunger.

1,453,406. WORKHOLDER. THOMAS E. PURVIS, Tekamah, Nebr. Filed May 10, 1921. Serial No. 468,382. 4 Claims. (Cl. 29—89.)



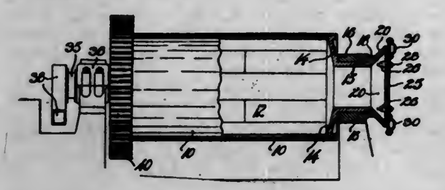
1. A work holder of the class described comprising a base, standards rising from said base in spaced relation one with respect to the other, a work table pivoted on its longitudinal center to the free ends of said standards whereby the same may be tilted to vertical positions to either side of the latter said table at one side of its top provided with a pair of apertured U-shaped supports and at the other side of its top with an apertured bracket, a brace member pivoted at one end to one of said standards, means detachably securing said brace member to said work table for holding the same in its horizontal position, tensioned fastenings extending through the apertures of said supports for engagement in certain bolt openings of an engine casting, and a detachable fastening means extending through the aperture of said bracket and adapted for engagement with any one of certain other bolt openings of the engine casting.

1,453,407. ICE-CREAM-BRICKING MACHINE. EDWARD J. RETZBACH, St. Louis, Mo., assignor, by direct and mesne assignments, to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed June 11, 1917. Serial No. 174,002. 44 Claims. (Cl. 226—19.)



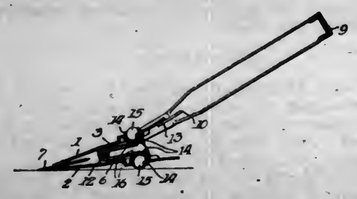
1. A machine of the class described comprising a plurality of ice cream containers, means for discharging the cream therefrom in assembled layers, means for relatively regulating the discharge from said containers, and means controlling as a whole the discharge of a predetermined amount of cream.

1,453,408. GRINDING MILL. JOSEPH P. RUTH, Jr., Denver, Colo. Filed Nov. 29, 1921. Serial No. 518,507. 2 Claims. (Cl. 83—9.)



1. A tube mill comprising a drum having a frusto-conical discharge head with a hollow journal and a flaring discharge flange, and a splash door secured to said drum, said door being spaced at equal distances from said flange and thereby forming a discharge opening extending entirely around the outer end of said flange, said door being of greater diameter than said outer flange end.

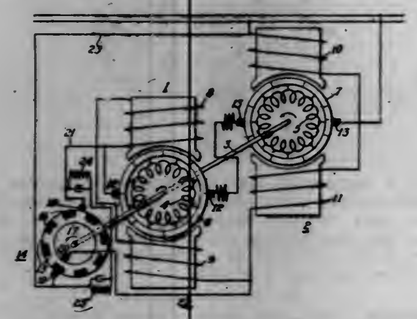
1,453,409. RAZOR-BLADE HOLDER. CLINTON A. SCOTT, Chicago, Ill. Filed Aug. 16, 1920, Serial No. 403,907. Renewed Oct. 2, 1922. Serial No. 591,986. 6 Claims. (Cl. 51—221.)



2. A device for holding a safety razor blade that is to be sharpened including a pair of blade clamping jaws

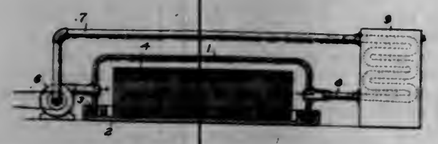
having lateral wings formed with aligned holes, the wings of one jaw being received between the wings of the other jaw; a riveting sleeve passing through the wings and assembled with the outer wings and upon which the inner wings may turn; a handle having prongs; a pin extending through the riveting sleeve that may turn upon the pin which is secured at its ends to said prongs; and a rearwardly extending U-shaped spring through which the riveting sleeve passes, the ends of the spring pressing against the inner faces of the rear portions of the jaws to exert closing pressure upon the jaws, an inner wing being extended to limit the opening movement of the jaws.

1,453,410. DYNAMO-ELECTRIC MACHINE. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1919. Serial No. 345,540. 37 Claims. (Cl. 171—328.)



1. In combination, a dynamo-electric machine embodying a commutated winding and field windings and means for opposing a change of flux in a field winding during the period of short-circuit of a portion of the commutated winding which embraces substantially the same field-flux as said field winding.

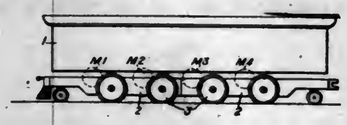
1,453,411. PROCESS OF ANNEALING SHEET IRON. JAMES A. SMAIL, Youngstown, Ohio. Filed Oct. 5, 1921. Serial No. 505,541. 14 Claims. (Cl. 148—13.)



1. A process of annealing a pack of iron sheets which consists in bringing the pack up through an annealing temperature in an enclosed atmosphere, and then causing said pack to cool down rapidly while still closed off from the outside atmosphere.

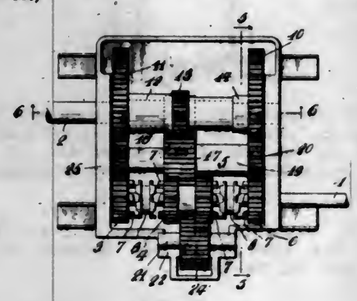
1,453,412. SYSTEM OF CONTROL. GERALD F. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 25, 1919. Serial No. 326,354. 9 Claims. (Cl. 172—179.)

1. In a system of regenerative control, the combination with a plurality of momentum-driven dynamo-electric machine armatures connected to a common load, of a translating device connected in series relation with certain of said armatures, one of said armatures being connected through all the machine field windings across



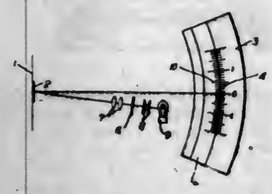
said translating device, and a second translating device connected in parallel relation to the field winding corresponding to said one armature.

1,453,413. GEAR TRANSMISSION. CHARLES W. SNODGRASS, Denver, Colo., and WALTER R. WHITMOYER, Detroit, Mich., assignors to Robert O. Bolles, Charles W. Snodgrass, and Walter R. Whitmoyer, trustees of S. & W. Transmission Association, Denver, Colo. Filed Jan. 20, 1922. Serial No. 530,638. 10 Claims. (Cl. 74—59.)



1. A variable speed transmission having driving and driven shafts, comprising a plurality of clutch-controlled pinions on the driving shaft, a fixed and a loose gear having a connected pinion on the driven shaft, said loose gear meshing with said clutch-controlled pinion, and a counter shaft having an interconnected gear and pinion thereon meshing respectively with the pinion and the fixed gear on the driven shaft.

1,453,414. MEASURING INSTRUMENT. HARRY P. SPARKES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 6, 1919. Serial No. 295,183. 10 Claims. (Cl. 88—24.)

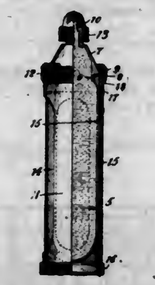


8. The combination with a movable element of a measuring instrument and a mirror thereon, of a plurality of vernier scales and means for projecting one of said scales upon another through the agency of the mirror.

1,453,415. COLLAPSIBLE DISPENSING TUBE. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Sept. 17, 1920. Serial No. 410,816. 4 Claims. (Cl. 221—60.)

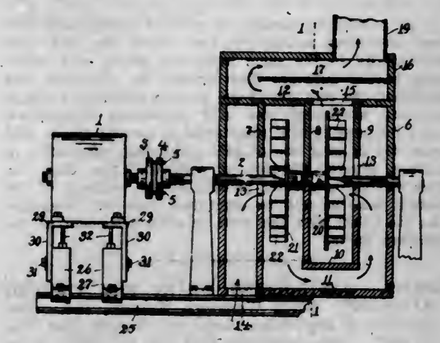
1. A collapsible metal tube having an open end, a removable head detachably secured to said open end and

having a peripheral flange overlapping and resting on said end, and a rigid container or finger tube secured to



the head and housing the collapsible tube and provided with a finger slot.

1,453,416. ORGAN BLOWER. ROBERT L. STANLEY, Richmond, Me. Filed Feb. 14, 1922. Serial No. 536,526. 5 Claims. (Cl. 230—11.)



1. A centrifugal blower comprising a rotative shaft, and two fan blowers mounted thereon, each blower consisting of a disk having vanes attached thereto, the vanes of each blower being on the opposite side of its disk relative to the other, and the diameter of one disk being greater than that of the other, and means for delivering air to the smaller fan and receiving it from the larger, whereby all end-thrust on the shaft is eliminated.

1,453,417. DETACHABLE HUB FOR ECCENTRICS. JOHN M. STONE, Carrizo Springs, Tex. Filed Apr. 17, 1922. Serial No. 553,316. 2 Claims. (Cl. 74—1.)



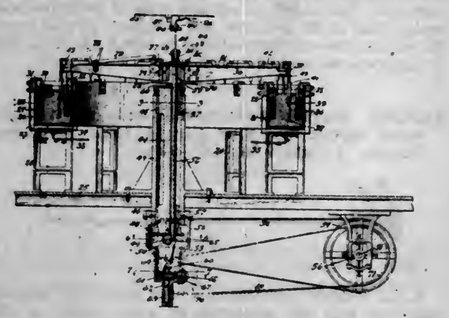
1. A pump jack including a shaft, a slotted eccentric on said shaft, a plurality of sleeves locked to said shaft on opposite sides of the eccentric, flanges on the opposite ends of said sleeves, certain of the flanges being adjustably connected to the eccentric, and a driving wheel secured to another of the flanges.

1,453,418. HYPODERMIC SYRINGE. JOHN A. TEGSMER, Worcester, Mass. Filed Oct. 22, 1920. Serial No. 418,672. 3 Claims. (Cl. 128—218.)



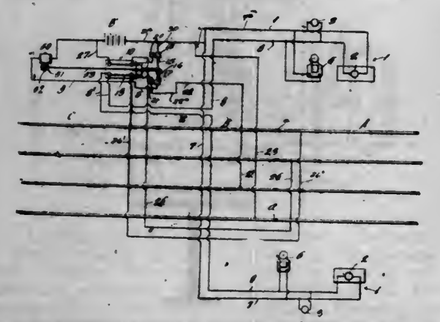
3. A hypodermic syringe comprising a casing having a relatively fixed end with a contracted opening therein, a needle extending through said opening and having an enlarged head seated within said end, a sleeve slidable in said casing and abutting the inner end of said needle head, and means to force said sleeve firmly against said head to secure said needle in said casing.

1,453,419. ELECTROPLATING APPARATUS. WILFRED THOMPSON and WALTER R. JAMESON, Niagara Falls, N. Y., assignors to Wm. A. Rogers, Limited, Niagara Falls, N. Y., a Corporation of Canada. Filed Sept. 12, 1921. Serial No. 499,977. 19 Claims. (Cl. 204—5.)



1. An electroplating apparatus comprising a tank adapted to contain an electrolyte, a support upon which the articles to be plated are suspended in said electrolyte, and means for moving said support lengthwise and also crosswise relative to said tank.

1,453,420. RAILWAY-CROSSING SIGNAL. ELBERT MONROE TOLSTON, Macon, Ga. Filed Dec. 11, 1919. Serial No. 344,010. 2 Claims. (Cl. 246—128.)



1. In a signal of the class described, a plurality of separate track sections, one of which is disposed across a highway, a signal circuit including rail sections on opposite sides of the highway section and a source of electrical energy, a motor circuit including a motor having a

drum attached to its shaft, a knife switch connected in both of said circuits, a flexible element connecting said drum to the lever of said switch to lift the lever and open the switch to break the signal circuit when the motor is energized by the train entering the crossing section and the succeeding section.

1,453,421. SPRING LUBRICATING PROTECTOR. ALFRED R. ULP, Pasadena, Calif. Filed Oct. 29, 1921. Serial No. 511,308. 11 Claims. (Cl. 267—37.)



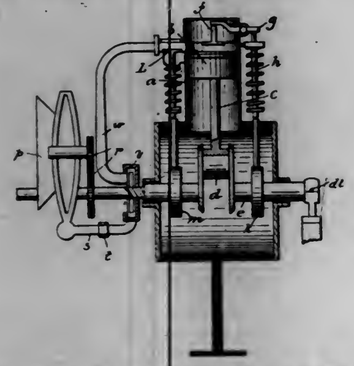
2. A spring lubricating protector having a flexible body and an absorbent lining adapted to rest at the bottom and sides of a spring portion, in combination with an upper telescopic member adapted for arrangement over the body and to be secured below the body and a spring portion to which the body is applied; the said securing of the telescopic member being effected by laces extending outwardly from points at opposite sides of the transverse median line of the protector and wrapped and tied about the end portions of the protector to secure the laces and to compress the said end portions.

1,453,422. HATPIN FASTENER. HERMANN WALKENHORST, Milton, Ky. Filed Aug. 14, 1922. Serial No. 581,599. 1 Claim. (Cl. 132—72.)



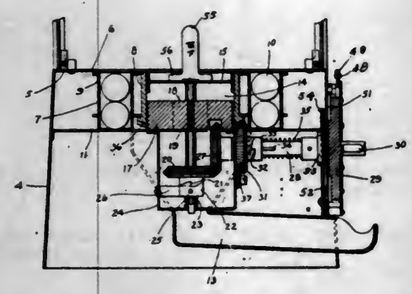
A pin protector comprising a cork shaped for manual operation, said cork containing an axial opening at the smaller end, and a plug of soft metal embedded in said cork at the bottom of the mentioned opening.

1,453,423. INTERNAL-COMBUSTION ENGINE. DANIEL MICHEL WEIGEL, London, England. Filed Aug. 4, 1919. Serial No. 315,135. 4 Claims. (Cl. 123—44.)



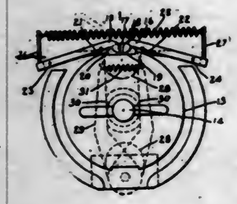
1. In an internal combustion engine, a plurality of rotating cylinders adapted to receive explosive mixture in a precompressed state and to derive energy from said gases by their expansion when ignited, said cylinders being adapted to directly expand said gases without further substantial compression therein, a centrifugal compressor having vanes adapted to be driven upon the rotation of said engine cylinders for compressing air for the said mixture, and means for supplying said gases to said cylinder from said compressor.

1,453,424. VENDING MACHINE. BRICE WILLIAMS, Kokomo, Ind. Filed June 18, 1921. Serial No. 478,628. 4 Claims. (Cl. 211—8.)



1. In a vending machine, a pair of horizontally disposed dispensing receptacles, one within the other and substantially in the same horizontal plane, said receptacles having passages therethrough for collecting and dispensing the contents of the vending machine, a single operating mechanism for said dispensing receptacles, means for causing said receptacles to operate singly, and means for causing one of said dispensing receptacles to rotate a greater distance at each operation than the other whereby a greater amount of the contents of the vending machine will be dispensed from one receptacle than the other with the same relative movement of the operating parts.

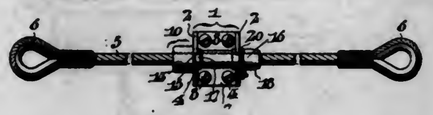
1,453,425. CONTROLLING MEANS FOR VENDING MACHINES. BRICE WILLIAMS, Kokomo, Ind. Continuation of application Serial No. 478,628, filed June 18, 1921. This application filed Nov. 30, 1921. Serial No. 519,020. 7 Claims. (Cl. 194—63.)



1. In a coin controlling means for vending machines, the combination with a shaft and a disk fixed to said shaft and having opposed notches in the periphery thereof, of a pair of locking latches having one of their ends co-operating with a single notch in unison, and means associated with the locking latches for engagement with coins when the disk is rotated for releasing one or the other of the latches from the notch.

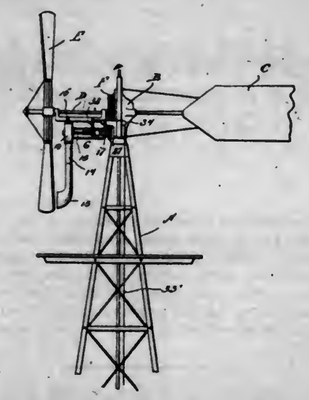
7. In a coin controlled vending machine, the combination with a plurality of dispensing means each dispensing a different quantity of commodity, each specified quantity being delivered at a single continuous movement of the dispensing means, of a single disk for receiving coins of different sizes and rotatable in opposite directions, the direction of travel of said disk determining the operation of the different dispensing means, and means controlled by the size of the coin deposited in said disk for determining the direction of travel of said disk.

1,453,426. FAIRLEAD OR GUIDE FOR THE CONTROL CABLES OF AIRCRAFT. SELDON T. WILLIAMS, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 15, 1920, Serial No. 424,091. Renewed Oct. 8, 1921. Serial No. 506,490. 4 Claims. (Cl. 244—31.)



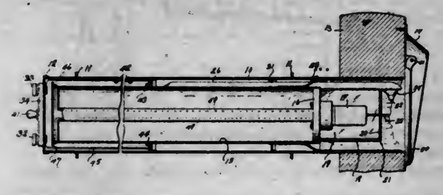
1. In a device of the character described, the combination with an apertured holder element, of a longitudinally split guide sleeve element adapted to be received within the aperture of the holder element and positioned with its extremities protruding beyond the end of said holder element; together with means at the ends thereof for securing the sleeve against longitudinal displacement within the holder.

1,453,427. WINDMILL GOVERNOR. ERNESTO ZAMORA, Eva, Tex. Filed Oct. 18, 1921. Serial No. 508,428. 3 Claims. (Cl. 170—37.)



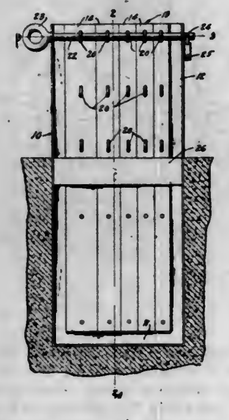
1. In combination with a wind mill head including a rotary wind wheel and a power element driven thereby, a blower of the centrifugal type, a pipe connected with the power blower and having its discharge end directed toward the rear side of the wind wheel, and a releasable drive connection between said power element and the blower.

1,453,428. VEHICLE SIGNAL. JOHN R. ALEXANDER, New Albany, Ind., assignor of one-half to Thomas Alexander, Toledo, Ohio. Filed Oct. 3, 1921. Serial No. 504,978. 3 Claims. (Cl. 116—50.)



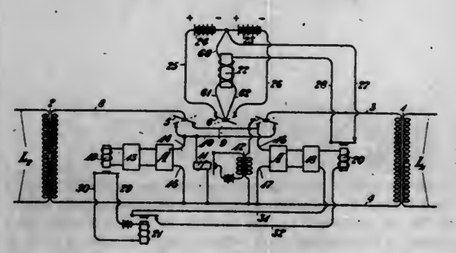
1. A signalling device for vehicles comprising an elongated tubular member, an inner member slidable within said tubular member, a collapsible hood structure carried by the inner member and including a pair of normally divergent spring arms, a pair of stationary arms between the spring arms and sheets of fabric connected with said spring arms and stretched over said stationary arms, an illuminating element mounted at the outer end of said inner member and disposed within said hood, a frame surrounding and protecting the bulb, and transparent panes of different colors mounted at the front and back of the frame.

1,453,429. HEAD GATE. HENRY C. BEGGS, Fort Morgan, Colo. Filed Apr. 3, 1922. Serial No. 549,051. 3 Claims. (Cl. 61—28.)



1. A head gate comprising a frame, a gate slidable in the frame and comprising a plurality of independently slidable sections, said sections being graduated as to size.

1,453,430. VOICE-OPERATED RELAY. OTTO B. BLACKWELL, Garden City, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,799. 39 Claims. (Cl. 179—171.)

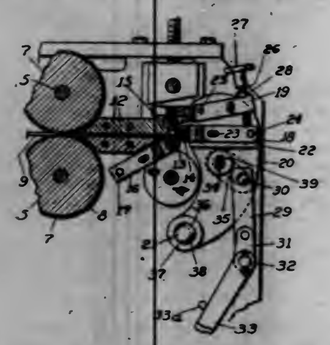


1. A telephone line, a repeater associated therewith, a circuit changing device comprising a differentially wound polarized relay and a plurality of switches for operatively associating said repeater with said line for transmission in either direction, said circuit changing device being controlled by the direction of transmission of voice currents transmitted over said line, and a filter associated with said circuit changing device adapted to readily allow the transmission of currents of voice frequencies and to attenuate and practically extinguish currents of other frequencies.

27. The combination of a relay, a repeater controlled thereby, and means whereby the acuation of said relay renders said relay inoperative.

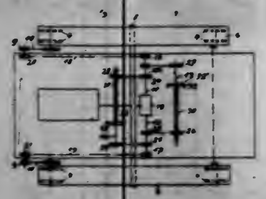
28. A repeater system comprising two lines, a repeater therebetween, and means, comprising a relay coil, for controlling said repeater in response to energization of said coil by incoming voice current in each of said lines.

1,453,431. COILING MACHINE. ARLINGTON A. BLOUNT, Worcester, Mass., assignor to Sleeper & Hartley, Inc., Worcester, Mass., a corporation of Massachusetts. Filed Jan. 8, 1921. Serial No. 435,881. 10 Claims. (Cl. 153—65.)



1. In a machine of the class described, the combination with means for feeding material to be coiled and a plurality of devices arranged with a predetermined relation about a space into which the material is fed for forming the material into a coil, of means for rendering said devices operative or inoperative, at will, without affecting the relation between said devices.

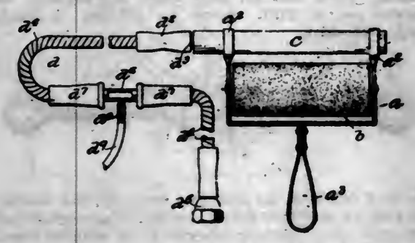
1,453,432. STEERING GEAR FOR MOTOR VEHICLES. HUGO E. BREMER, Nehem, Westphalia, Germany. Filed July 16, 1919. Serial No. 311,348. 1 Claim. (Cl. 180—9.2.)



In a steering gear for motor vehicles having a pair of road chains, the combination with two chain shafts adapted to be operated by the motor for driving said road chains, a differential gear connecting said chain shafts to the motor, two sets of auxiliary shafts arranged in pairs one within the other, two pairs of clutch members fitted to said auxiliary shafts for individually coupling the same and said chain shafts together, and means for transferring in a given ratio the power from one chain shaft to the other whereby to produce a difference in the speeds of operation of said road chains.

1,453,433. CLOTH PRESSING AND STEAMING DEVICE. JAMES BRUNELLI, Brooklyn, N. Y. Filed Aug. 22, 1921. Serial No. 494,306. 12 Claims. (Cl. 26—5.)

1. In an apparatus of the class described, a yoke-shaped frame provided with a handle, a roller rotatably mounted in said frame, the face of which is provided with projecting and substantially rigid bristles and a perforated



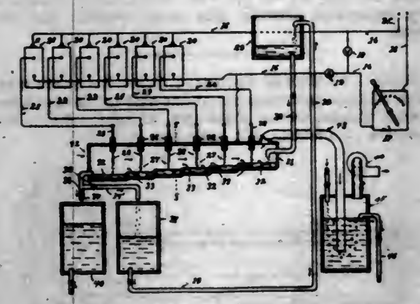
steam casing or receptacle mounted in connection with said frame in front of said roller.

1,453,434. FURNACE-DOOR ARCH. LESTER E. BUDD, Philadelphia, Pa. Filed July 14, 1921. Serial No. 484,541. 4 Claims. (Cl. 110—80.)



1. A furnace arch structure including a top, piers supporting the top, a dead plate supporting the piers, the piers having upright passages communicating wtih the ash pit and with ports leading to the fire box, the dead plate having slots communicating with the upright passages, and the top having ports extending from front to rear thereof communicating with the doorway and the fire box.

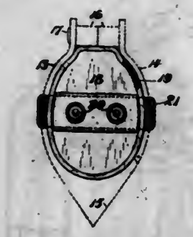
1,453,435. METHOD AND APPARATUS FOR NITROGEN FIXATION. CHARLES H. BUETTNER, Cincinnati, Ohio. Filed Nov. 17, 1921. Serial No. 515,844. 15 Claims. (Cl. 204—31.)



1. The method of nitrogen fixation which comprises subjecting mixed nitrogen and oxygen to an electrical discharge between a plurality of electrical terminals

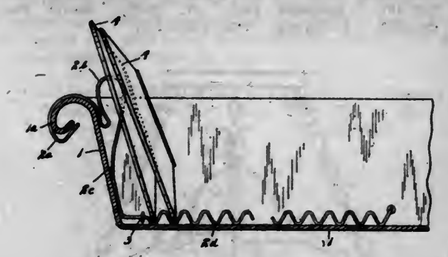
each in an independent electrical circuit and a body of water, and absorbing the fixation products into said body of water.

1,453,436. HOLDER FOR WHEEL LOCKS. EDWARD M. BURNHAM, San Francisco, Calif. Filed Apr. 3, 1922. Serial No. 549,230. 4 Claims. (Cl. 224—29.)



1. A holder for a wheel lock of the type mentioned comprising a block adapted to be permanently fastened to a vehicle, said block being of a size and shape to fit within the lock and engage snugly with opposite portions of the lock when the latter is in closed position thereon, and a projecting rim portion on the front face of the block to prevent removal of the lock in an axial direction.

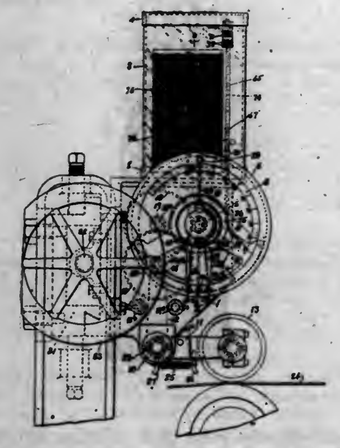
1,453,437. RINSING HOLDER FOR DISHES. WILLIAM E. BURNHAM, Minneapolis, Minn.; Julia E. Burnham special administratrix of said William E. Burnham, deceased. Filed Apr. 12, 1921. Serial No. 460,709. 4 Claims. (Cl. 141—11.)



1. A dish holding device adapted to be placed in a receptacle to support the dishes in spaced relation to the bottom thereof, comprising a portion constructed and arranged to engage over the side of the receptacle to hold the device in position, an adjacent loop portion disposed in a plane normal to the side of said receptacle arranged to form a support for a row of dishes and a horizontal portion extending in contact with the bottom of the receptacle and formed with spaced means for supporting the dishes in said row.

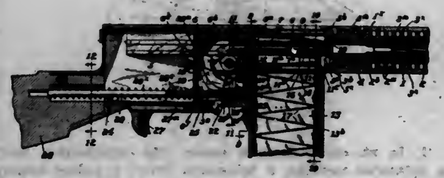
1,453,438. SIGNAL AND RECORDING METER FOR PAPER-MAKING MACHINERY. EDWARD H. BUTTERFIELD and FERDINAND D. OTTENHEIM, Middletown, Ohio, assignors to Tom Harvey, jr., Middletown, Ohio. Filed May 12, 1919. Serial No. 296,667. 31 Claims. (Cl. 92—46.)

1. In a device of the character described, the combination, a member movable transversely of a strip of paper movable thereunder and adapted to contact with the surface thereof, means to move said member transversely during the operation of the machine, a graduated dial, a pointer cooperating therewith and adapted to be moved to predetermined fixed positions relative there-



to, and another pointer disconnected from the first mentioned pointer cooperating with the dial and operable by said member whereby the variations in thickness of the paper will be indicated on said dial.

1,453,439. RECOIL-OPERATED FIREARM. NICASIO CEDILLO, Houston, Tex., assignor to C. E. Reed, Houston, Tex. Filed Mar. 21, 1921. Serial No. 454,002. 14 Claims. (Cl. 89—3.)



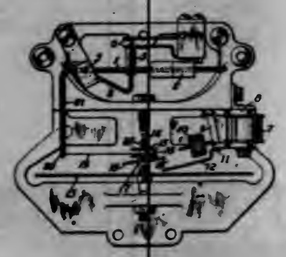
4. In a machine, a main casing, a barrel carrier movable therein under recoil, a barrel rigidly connected to said barrel carrier, a breech block and breech bolt supported by said barrel carrier, said breech bolt having a central passage, a firing pin therein, said breech bolt and firing pin having aligning elongated slots or recesses, and said breech block having a part projecting into both said slots or recesses.

1,453,440. TASSEL AND PENDANT. JOSEPH E. CHAPPATTE, Narberth, Pa. Filed Sept. 28, 1920. Serial No. 413,398. 5 Claims. (Cl. 156—40.)



5. An ornamental tassel block of plastic material having upon its outer surface an integral design in relief representative of fabric and provided with a central bore adapted to receive a suspending cord and with a concavity at its bottom adapted to receive a fringe.

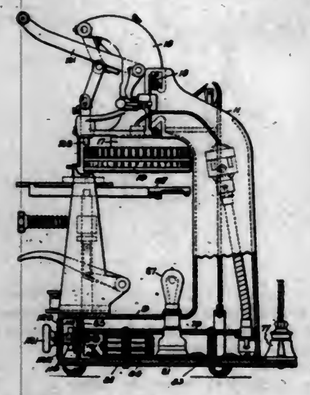
1,453,441. EXCESS-DEMAND METER. GEORGE A. CHEETHAM, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1920. Serial No. 415,093. 8 Claims. (Cl. 171—34.)



1. In an excess-demand meter, the combination with a rotatable member, a bell-crank lever, a pulley loosely mounted on the rotatable member, and means for connecting the lever to the pulley, of electrical means for controlling the connection of the pulley to the rotatable member.

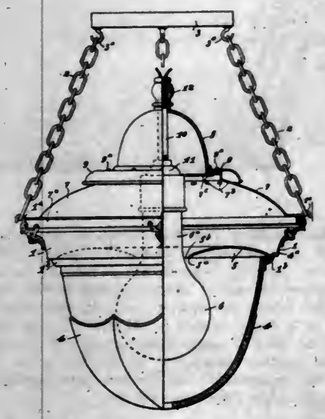
2. In a motor meter, the combination with a rotatable member, a bell-crank lever, a pulley loosely mounted on the rotatable member, and a flexible means for connecting the lever to the pulley to move the lever, of means controlled by the movement of the bell-crank lever for so recurrently connecting the pulley to the rotatable member as to cause the lever to impose a substantially constant average retarding force on the rotatable member.

1,453,442. MARKING MACHINE. WILLIAM E. CHOATE, Westerly, R. I., assignor, by mesne assignments, to Federal Finance Corporation, a Corporation of Massachusetts. Original application filed Aug. 15, 1916, Serial No. 115,112. Divided and this application filed Apr. 26, 1921. Serial No. 464,558. 16 Claims. (Cl. 219—30.)



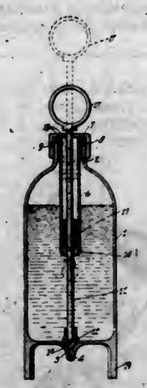
1. A marking machine comprising an annular carrier having a cylindrical flange, plunger dies normally housed in said flange, an angular annulus of heat insulating material opposing the angle of the carrier formed by the flange and a resistance coil received between them.

1,453,443. LIGHTING FIXTURE. WESLEY E. COCHRAN, Cleveland, Ohio. Filed June 1, 1920, Serial No. 385,417. Renewed Sept. 27, 1922. Serial No. 591,001. 8 Claims. (Cl. 240—78.)



1. A lighting fixture, comprising a holder ring, a light diffusing bowl thereon, a suspending device for said ring, a ventilated canopy detachably connected to said ring, a light diffusing shade detachably mounted on said canopy and projecting upwardly therefrom, a tubular cord stem terminating in a lamp socket, means for detachably connecting said cord stem to said light diffusing shade, a lamp bulb extending within said light diffusing bowl, and a reflector above and closing said bowl and having an opening containing said lamp bulb and reflecting the light rays thru said bowl.

1,453,444. DOSAGE BOTTLE. WILLIAM J. COVELL, San Francisco, Calif. Filed Feb. 1, 1922. Serial No. 533,390. 8 Claims. (Cl. 221—95.)



1. A dosage bottle comprising a container having a neck portion and a dispensing aperture formed opposite said neck portion; a tubular member mounted within the neck and extending inwardly into the container; a stem slidably mounted within the tubular member and extending beyond the ends thereof, the inner end of the stem being arranged to normally close the dispensing aperture; a piston mounted upon the stem and arranged to normally occupy a position at the inner end of the tubular member, said piston being arranged to be receded within the tubular member to form a partial vacuum within the container, said vacuum operating to draw air into the container through the dispensing aperture opened by the receding of the stem and piston to restore atmospheric pressure, a subsequent advancing of the piston in turn operating to increase the pressure within the container and thereby force a portion of the contents of the container outwardly through said dispensing aperture.

1,453,445. DISPENSING CONTAINER. WILLIAM J. COVELL, San Francisco, Calif. Filed Feb. 1, 1922. Serial No. 533,391. 5 Claims. (Cl. 221—95.)



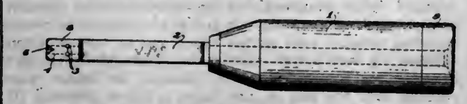
1. A dispensing container comprising a container having a neck portion and a dispensing tip formed thereon; a tubular member mounted within the neck and extending into said container, said member being open at both ends and having its inner end open within the container; a piston slidably mounted within the tubular member; a stem secured upon said piston and extending outwardly from the tubular member through the neck of the container, whereby said piston may be reciprocated within the tubular member, a receding movement creating a partial vacuum within the container whereby air is drawn into the container through the dispensing tip to restore normal pressure, and a subsequent forward movement of the piston causing an increase in the pressure whereby liquid may be forced from the container through said dispensing tip.

1,453,446. WIRE-JOINING TOOL. BRUCE J. DAVIDSON, New York, N. Y., assignor to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed June 30, 1919. Serial No. 307,749. 44 Claims. (Cl. 140—118.)



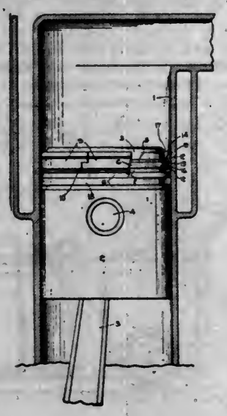
1. A tool for use in joining package wires by intertwisting, comprising a plurality of wire engaging means spaced apart a distance approximately equal to a desired length of twist and adapted to receive side by side the wires to be twisted, at least one such means arranged to be rotated relatively to the wire to produce the twist.

1,453,447. WIRE-JOINING METHOD. BRUCE J. DAVIDSON, Marseilles, Ill., assignor to Wirebounds Patents Company, a Corporation of Maine. Original application filed June 30, 1919. Serial No. 307,749. Divided and this application filed Dec. 15, 1921. Serial No. 522,653. 13 Claims. (Cl. 140—118.)



1. A method of joining package wires by intertwisting characterized by forming an even regular intertwist between portions of the wire for a certain length with the convolutions of the twist uniformly tensioned and by ringing off the tip of the twist a predetermined distance from the package.

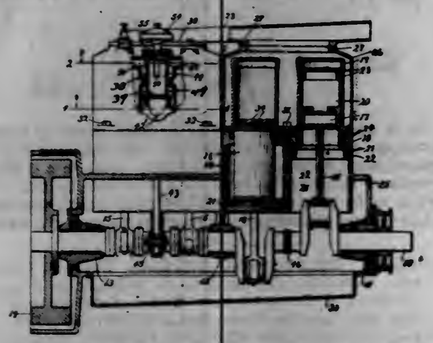
1,453,448. PISTON AND PISTON RING. WILLIAM R. DAY, Cleveland, Ohio. Filed Dec. 31, 1920. Serial No. 434,219. 3 Claims. (Cl. 74—109.)



1. In an apparatus of the character set forth, the combination of a piston adapted to operate within a cyl-

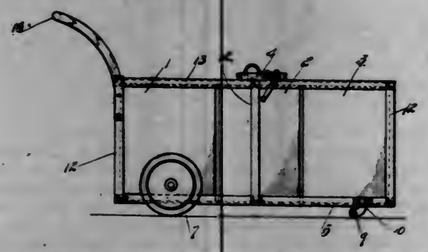
inder, the head of said piston being reduced in diameter and the walls of said piston adjacent said head being provided with a plurality of flanges arranged in spaced relationship and defining grooves, rings fitted in said grooves, the ring fitted in the groove adjacent said reduced head being composed of a plurality of segments each movable radially independently of the other, each of said segments extending to a point adjacent the reduced portion of said piston head, and the edge of the flange adjacent said piston head being bevelled.

1,453,449. TWO-CYCLE GAS ENGINE. OLIVER M. DE LAUNTY, Chicago, Ill. Filed June 10, 1920. Serial No. 387,861. 2 Claims. (Cl. 123—59.)



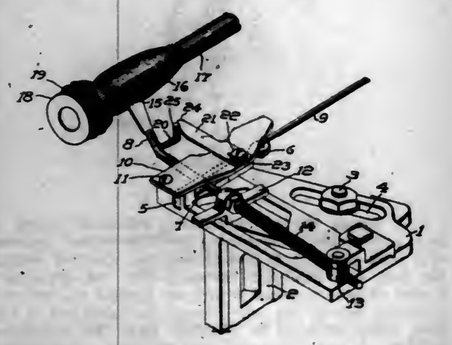
1. In a gas engine, the combination with a common cylinder block chambered to provide a pair of upright power cylinders each having pump and explosion chambers, an exhaust port at the lower end of the explosion chamber of each power cylinder, an intermediate upright cylinder for a rotating valve element, an intake port opening into the side of the valve cylinder adjacent its lower end, passages leading from the lower end of the valve cylinder to the pump chambers of the two power cylinders, an extension of each of the last mentioned passages opening into the valve cylinder above the said intake port and passages leading from the upper end of the valve cylinder to the explosion chambers of the two power cylinders, of a rotating chambered valve turning in the valve cylinder, a diaphragm dividing the chamber of the valve into upper and lower sections, two lateral ports in the lower section of the valve controlling the said intake port, a single port in the lower end of the valve controlling the said two passages leading to the pump chambers of the power cylinders, a single port in the upper section of the valve controlling the said two extension passages and a single port in the upper section of the valve controlling the said two passages leading to the explosion chambers of the power cylinders.

1,453,450. MOPPING VEHICLE. HARRY DILAS, Bay City, Mich. Filed Aug. 16, 1921. Serial No. 493,477. 1 Claim. (Cl. 280—50.)



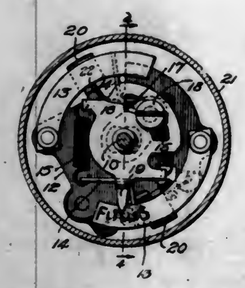
A mopping vehicle comprising a shallow water tight base tank, a running gear having downwardly bent axles in the rear end, and relatively small swiveled casters in the front to allow the said base tank to be carried close to the floor, and a plurality of tanks adapted to be carried in the shallow receptacle, a superstructure, and a handle rigidly attached thereto for propelling said vehicle.

1,453,451. FEELER MECHANISM FOR LOOMS. HORACE E. DILL, Graniteville, S. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 19, 1921. Serial No. 523,322. 6 Claims. (Cl. 139—85.)



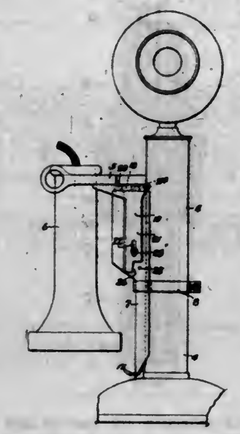
1. In a loom having a feeler mechanism, comprising, in combination, a feeler supported in a position and for normal movement inclined to the longitudinal axis of the shuttle on each detecting beat and for abnormal movement at an increased inclination to effect replenishment of filling when the filling is substantially exhausted, a projection carried by the feeler, and a preventer finger mounted in fixed position and to one side of which the projection passes in its normal inclined movement with a working supply of filling in the shuttle on a detecting beat, and to the other side of which the projection passes when the feeler partakes of its abnormal inclined frontward movement upon substantial exhaustion of filling.

1,453,452. CENTRIFUGAL GOVERNOR. HENRY F. DOBBIN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1921. Serial No. 525,762. 4 Claims. (Cl. 188—184.)



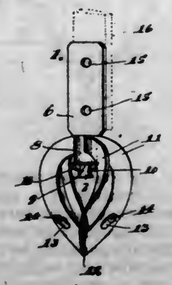
3. A centrifugal governor comprising a supporting member, a pair of fly weights each of said weights having a pliable adjusting member secured to the free end thereof, a rotatable member, and spring means cooperating with said adjusting members and rotatable member to restrain the fly weights against centrifugal motion.

1,453,453. NOTIFYING OR CALL DEVICE FOR TELEPHONES. GEORGE FORSTER, Philadelphia, Pa. Filed July 24, 1920. Serial No. 398,769. 11 Claims. (Cl. 179—81.)



1. An attachment for a telephone, including an alarm device located at a position remote from the telephone: means automatically movable to effect the operation of said device and normally held against operation by a part of the telephone necessarily movable in order to answer the telephone, said means being operative when released by said part of the telephone to effect the operation of said alarm device; and means for independently moving said first means into an inoperative position so as to silence said alarm device; substantially as described.

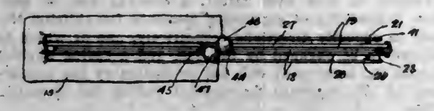
1,453,454. DRAIN CLEANER. CHARLES FRITZ, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,849. 4 Claims. (Cl. 137—70.)



1. A drain cleaner comprising a shaft; a hub rotatably mounted on said shaft; and cutting blades formed integral with said hub, curving outwardly therefrom and joined together at an outward point, said blades and hub rotating automatically when said cleaner is thrust in the drain pipe, substantially as described.

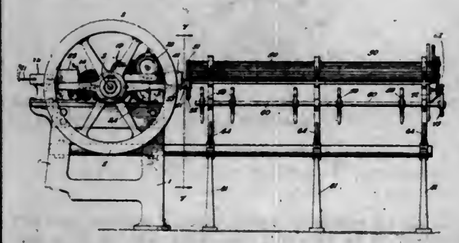
1,453,455. BAG FRAME. FRANK A. FULLER, Newark, N. J., assignor to The J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Dec. 22, 1921. Serial No. 524,111. 8 Claims. (Cl. 150—29.)

1. A bag frame comprising a pair of channel members having angular extensions disposed in parallel, plate members disposed within the channeled members, hinge elements connecting the ends of said plate members, the plate and channel members being riveted near their ends,



said plate members having perforations for stitching the bag cover thereto, and means formed with said plates adapted to prevent abrasion of the stitches.

1,453,456. WIRE DEFORMING AND SEVERING MACHINE. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,102. 12 Claims. (Cl. 29—34.)

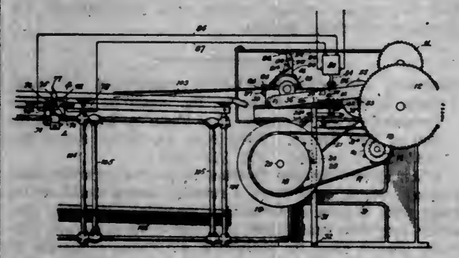


1. In a machine for deforming the ends of wires, the combination of means for feeding the wire through the deforming mechanism; a rotating means provided with a groove for receiving the fed wire; means for supporting the fed wire; means for stopping the feeding means; means for deforming the fed wire; and means for severing the deformed wire, substantially as described.

1,453,457. PROCESS AND COMPOSITION OF MATTER FOR COLORING MORTARS. FRANK M. HALDEMAN, Cleveland, Ohio, assignor to The Master Builders Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 1, 1921. Serial No. 481,968. 6 Claims. (Cl. 106—24.)

1. The art of coloring cement mortar which contains the step of mixing a finely ground insoluble mineral pigment with the water used in making the mortar, and incorporating such water with the cement and aggregate prior to the settling of the pigment, the quantity of such water being sufficient to produce the desired wetting of the mixture.

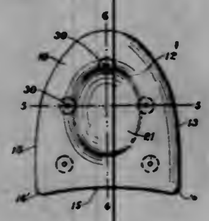
1,453,458. MACHINE FOR MAKING CORRUGATED BOARD. BERG HEINRICHS, Anderson, Ind., assignor to Mid-West Box Company, Anderson, Ind., a Corporation of Indiana. Filed July 16, 1920. Serial No. 396,826. 7 Claims. (Cl. 164—49.)



1. In a machine of the character described, the combination of mechanism for continuously feeding a web, a

reciprocable carriage movable with the web, mechanism for reciprocating the carriage, a cutter pivotally mounted on the carriage, a lever mounted on the carriage and connected to rock said cutter, a one-way dog on said lever, a plurality of stationary elements for shifting the lever in opposite directions respectively, one of which is adapted to be engaged by the dog, and a spring applied to hold the lever so it will not be shifted by the engagement of the dog with the element during the retractile stroke.

1,453,459. RESILIENT HEEL LIFT. RAYMOND I. HILL, Elyria, Ohio, assignor, by mesne assignments, to W. R. Huntington. Filed Nov. 26, 1917. Serial No. 203,986. 9 Claims. (Cl. 36—35.



2. As an article of manufacture, a resilient heel lift provided on its attaching face, when said lift is in normal position, with an elevated central portion and with an arch around the central portions and adapted to be flattened when the lift is in working position.

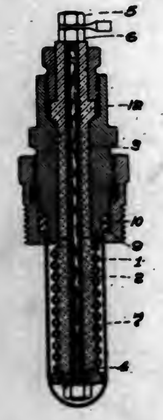
1,453,460. RESILIENT HEEL LIFT. RAYMOND I. HILL, Elyria, Ohio, assignor, by mesne assignments, to W. R. Huntington. Filed Nov. 26, 1917. Serial No. 203,987. 7 Claims. (Cl. 36—35.)



1. A resilient heel lift having a flat marginal portion, and inside the marginal portion having on the attaching face a protuberance, and on the tread face a crater of substantially the same outline as the protuberance, said heel lift having means outside said protuberance for receiving attaching devices.

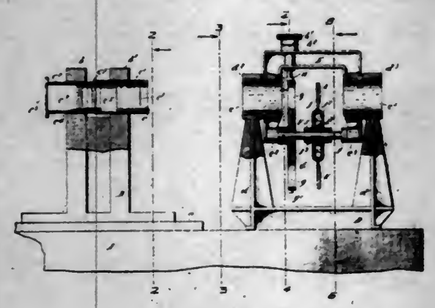
1,453,461. ELECTROTHERMAL IGNITION DEVICE. LEON F. HOFFMAN, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 18, 1922. Serial No. 588,933. 2 Claims. (Cl. 123—145.)

1. An electro-thermal ignition device for internal combustion motors, comprising a tubular casing closed at its inner end, a core of insulating material extending centrally into said casing and provided with a spirally disposed groove upon its periphery, a resistor composed of spirally-wound wire occupying said groove, a holder for said tubular casing, a tubular body through which said core extends, said holder and said body forming co-operative assembly means for said casing and said core, and an electrical conductor extending through said core,



to the inner end of which one end of said resistor is attached, the other end of said resistor being attached to said holder.

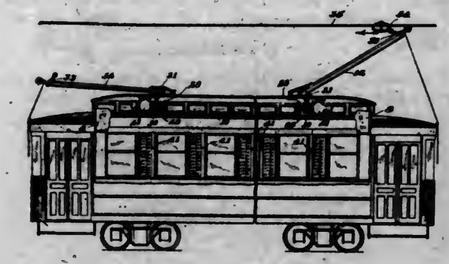
1,453,462. LENS-ADJUSTING MEANS. ARTHUR J. HOLMAN, Boston, Mass., assignor to Motion Picture Improvement Company, a Corporation of Massachusetts. Filed Dec. 2, 1921. Serial No. 519,477. 2 Claims. (Cl. 88—16.8.)



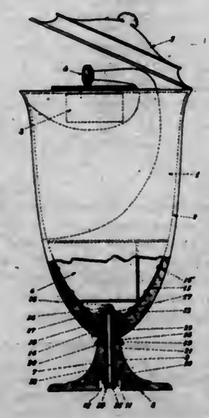
1. In a device of the character specified the combination with the usual elements of a telescope excepting therefrom the object lens, of cross-hairs mounted in the field of vision of the eye-piece of said telescope, and means whereby a disk the periphery of which consists of a plurality of lens sectors, may be rotatably mounted on a shaft, which shaft is revolvable about the axis of said telescope tube and parallel thereto in a manner whereby each lens sector of said disk may be positioned successively by a uniform angular rotation of said disk about said shaft to form an object lens for said telescope and when so positioned may be rotated by the revolution of said shaft about the axis of said telescope tube.

1,453,463. STREET INDICATOR. JOHN R. HUME, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,509. 9 Claims. (Cl. 40—36.)

1. The combination with a car and track therefor, of a plurality of traveling sign elements mounted thereon; means for operating said sign elements; a motor for operating said operating means; an operative connection between said motor and said operating means, including a clutch; means carried by said car for operating said clutch; and stationary elements positioned along the car track and arranged to operate said clutch operating means, substantially as described.



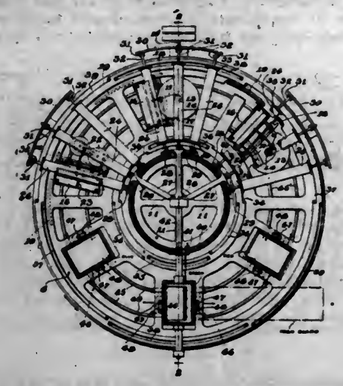
1,453,464. PHONOGRAPH CABINET. PAUL IRIBE, New York, N. Y. Filed June 5, 1920. Serial No. 386,838. 7 Claims. (Cl. 45—52.)



1. In a phonograph, in combination, a wooden pedestal, a wooden cabinet member, a ball bearing for sustaining the latter, a metallic reinforce within said pedestal, said reinforce including a metallic tube, a race of said ball bearing at the upper end of said pedestal and sustained by said tube, said cabinet member having a reinforce including a metallic tube extending axially through its bottom, the second race of said bearing being sustained at the bottom of said latter tube, a pin extending through said tubular members, means for preventing upward withdrawal of said pin from said pedestal, and a nut threaded upon the upper end of said pin and in proximity to the reinforce of the cabinet.

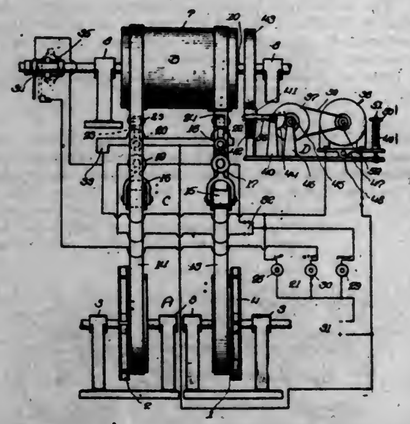
1,453,465. MULTICOLOR-PRINTING MACHINE. RAPHAEL JACOBUCCI, Providence, R. I., assignor of one-half to George Rivkind, Boston, Mass. Filed Nov. 26, 1921. Serial No. 517,935. 3 Claims. (Cl. 101—186.)

1. In a device of the character described having a fixed base, a rotary table and a cylinder, a circular track-way on the base having spaced parallel portions extending



beneath the cylinder and a bed plate carriage supported by a truck operating on said track-way.

1,453,466. POWER-TRANSMISSION APPARATUS. AUSTIN KIMBLE, Wausau, Wis., assignor to Marathon Electric Mfg. Co., Wausau, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1921. Serial No. 501,129. 15 Claims. (Cl. 192—11.)

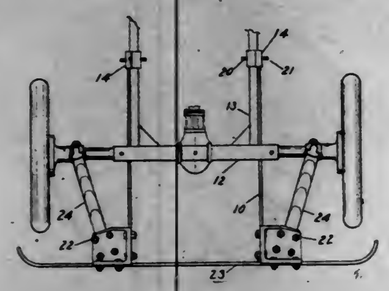


1. A power transmission apparatus comprising a pair of power-producing members adapted to be continuously rotated in opposite directions, a driving member, a pair of power-transmitting friction members adapted to connect said power-producing members with said driving member, said friction members being normally inactive to transmit power, and mechanism actuatable to connect one or the other of said friction members in driving relation with its respective power producing member and said driving member.

1,453,467. REAR-SPRING SUPPORT FOR AUTOMOBILES. HENRY KNIPPEL, Lincoln, Nebr. Filed June 5, 1922. Serial No. 565,939. 3 Claims. (Cl. 267—36.)

2. An attachment for vehicles comprising clamps which are adapted to be secured to the rear axle of a vehicle, links pivoted at one of their ends to each of said clamps, springs secured at their forward ends to the free ends of said links, forwardly extending beams se-

cured at their rear ends to the rear ends of said springs, the rear portions of said beams being disposed to one side of but in horizontal alignment with the side beams of the vehicle, the forward portions of said beams passing underneath the rear beam of the vehicle and forwardly

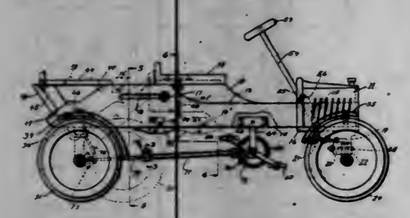


to a point in advance of the rear axle of the vehicle, means for securing the forward ends of the said beams to the side beams of the vehicle, and a cross beam connecting the rear ends of the aforesaid beams, said cross beam serving as a rear bumper for the vehicle.

1,453,468. PROCESS FOR MAKING REFRACTORY PRODUCTS. LOUIS P. KRAUS, Jr., New York, N. Y. Filed Aug. 23, 1918. Serial No. 251,092. 14 Claims. (Cl. 106—11.)

1. The method of treating refractory material consisting in roasting a ground mixture of the material and a combustible at such a clinkering temperature below its melting point as to produce a clinkered material in the form of spongy grains free from crystalline structure.

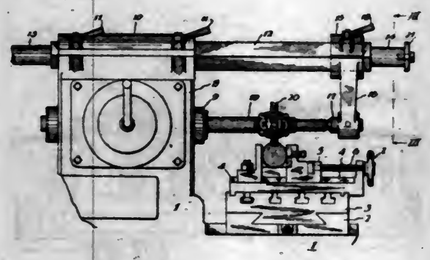
1,453,469. VELOCIPEDE. CARL LATHER, Chicago, Ill., assignor of one-half to Frank Joseph, Chicago, Ill. Filed Oct. 18, 1921. Serial No. 508,492. 14 Claims. (Cl. 208—113.)



1. A vehicle of the class described comprising adjustable axle bearing body sections; wheels on said axle; means for transmitting motive power to said wheels; means for governing the direction of travel of said wheels; seat members mounted on said body, one of said seat members being pivotally mounted on one of said body sections; and a recess formed in the other of said seat members for the reception of the pivotally mounted seat member, substantially as described.

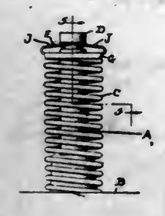
1,453,470. ARBOR SUPPORT. ERNEST J. LEHR, Cleveland, Ohio, assignor to Hosea T. Bradner, Cleveland, Ohio. Original application filed Apr. 26, 1918, Serial No. 230,979. Divided and this application filed Feb. 8, 1919. Serial No. 275,685. 11 Claims. (Cl. 90—18.)

1. An arbor support comprising a column provided with an angular socket, an over-arm having a section of corresponding angularity as and fitted in said socket, another section of said over-arm being rounded, and an



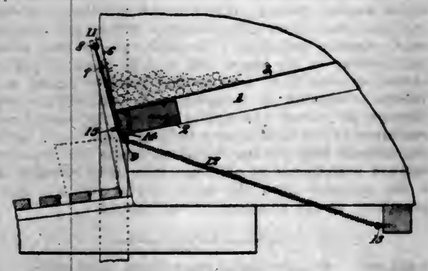
arbor support fitted to said angular section and adapted to be slid along to enclose said rounded section and enable its being swung around.

1,453,471. SPRING RETAINER. GEORGE MICHIEL LE TARTE, Detroit, Mich. Filed Dec. 28, 1921. Serial No. 525,492. 5 Claims. (Cl. 251—144.)



4. As a new article of manufacture, a centrally apertured disk for engagement about a headed stem and against the top of a helical spring, said disk being provided with upwardly and inwardly extending tongue pieces adapted to engage under the head of the stem and with depending peripheral projections adapted to hold the end of the spring against slippage.

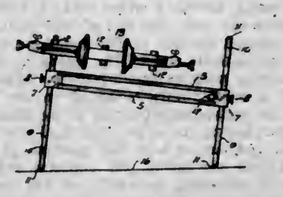
1,453,472. BIN DOOR. ALLAN H. MCINTYRE, Dunedin, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed Feb. 1, 1922. Serial No. 533,228. 5 Claims. (Cl. 211—6.)



1. In combination with a bin floor, a substantially vertically disposed bin wall rising therefrom and provided

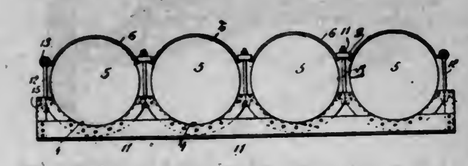
with a door opening, a vertically slidable door receivable within said opening for closing the same, a guide at the base of said door opening below the floor through which said door slides, means carried by the door for engaging the door wall for holding the door in closed position, said means adapted for engaging said guide to limit the opening movement of the door.

1,453,473. X-RAY PLATE CHANGER. RAYMOND J. MCKENNA, Denver, Colo., assignor to Magnuson X-Ray Company, a Firm composed of Alfred G. Magnuson and Cora I. Magnuson. Filed Feb. 23, 1922. Serial No. 538,640. 4 Claims. (Cl. 250—34.)



1. A plate changer of the tunnel type, comprising a removable holder for a sensitized plate or film; a flat housing for the reception of the removable holder; and a plurality of parallel rods separately adjustable through the housing at right angles therewith for its support and for engagement with a clamp above the housing.

1,453,474. MULTITANK CRADLE. MAX MAURAN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N.Y., a Corporation of Virginia. Filed Sept. 22, 1921. Serial No. 502,529. 7 Claims. (Cl. 105—362.)



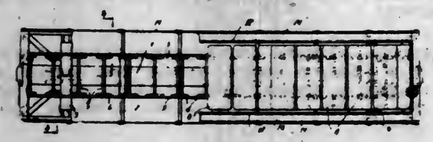
1. A cradle of the class described, comprising a unitary frame adapted to be mounted on a car, and provided with a series of transversely extending parallel seats for receiving tanks, and means for clamping the tanks to the seats.

1,453,475. MULTIPLE-UNIT TANK CAR. MAX MAURAN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed May 18, 1922. Serial No. 562,001. 13 Claims. (Cl. 105—362.)



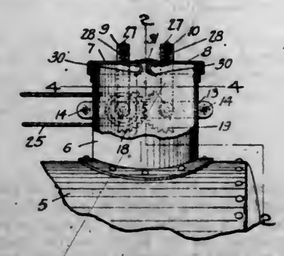
1. A multiple unit tank car, comprising a body composed of a central longitudinally extending sill and transverse girders, said girders supporting seats for receiving substantially cylindrical drums arranged with their long axes longitudinal to the car, drums in the seats, and means for clamping the drums in the seats.

1,453,476. DOUBLE-TIER MULTIPLE-UNIT TANK CAR. MAX MAURAN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed May 18, 1922. Serial No. 562,003. 6 Claims. (Cl. 105—360.)



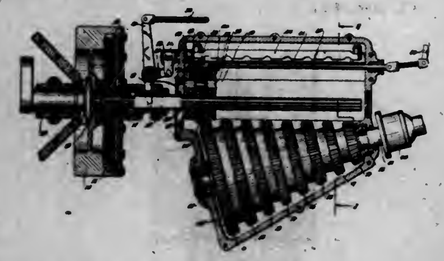
1. A multiple-tier multiple unit tank car, including a car body comprising an open frame having seats, and substantially cylindrical containers held in the seats, the seats being spaced to space the containers so that each pair of containers will provide between them a seat for another similar container resting on the containers of the pair, and similar containers held in the last named seats.

1,453,477. SMOKESTACK COVER. RICHARD J. O'NEILL, Denver, Colo., assignor of one-half to F. S. McNamara, Denver, Colo. Filed June 24, 1921. Serial No. 480,112. 5 Claims. (Cl. 110—163.)



1. A smoke stack cover comprising two members adapted to cover the top of the smoke stack, each having a U-shaped support pivoted to the smoke stack and carrying the member, and springs positioned between said supports and said members, said springs being adapted to hold said members in contact with said smoke stack.

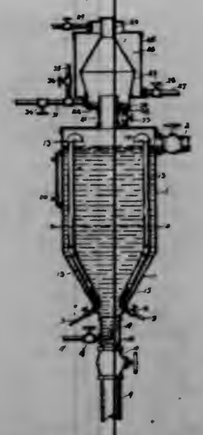
1,453,478. CONE-GEAR TRANSMISSION MECHANISM. ALDEN E. OSBORN, New York, N. Y. Filed Apr. 25, 1921, Serial No. 464,405. Renewed July 31, 1922. Serial No. 578,855. 16 Claims. (Cl. 74—58.)



1. In a transmission gearing the combination of a primary driving member, a driving element, and a driven element, a friction clutch adapted to connect or disconnect said primary driving member and said driving element, a driving gear slidably mounted on said driving element, gears having connection with said driven element and adapted to mesh with the driving gear, a stationary frame having guideways substantially parallel

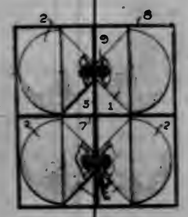
with the axis of the said driving element, a carrier slidably mounted on said guideways, and bearings for supporting said driving gear independently of said driving element, and means for moving said carrier along said guideways to bring said driving gear into mesh with one or another of said gears connected with the said driven element.

1,453,479. PROCESS OF TREATING HYDROCARBON OILS. JOHN P. PERSCH, Houston, Tex., assignor of one-fifth to Brainard Tolles, Ho-ho-kus, Tex. Filed Oct. 4, 1920. Serial No. 414,502. 5 Claims. (Cl. 196—27.)



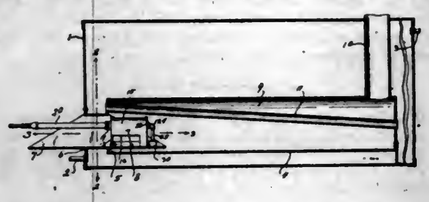
1. The process of reducing the viscosity of hydrocarbon oils consisting in placing the oil to be treated in a large container, forcing a gaseous fluid through a nozzle into the oil to atomize the oil at the nozzle, confining the atomized oil and fluid in an open ended pipe and causing the mixed fluid and oil to pass through the pipe whereby the fluid is brought into intimate contact with the consecutive small portions of the mass of oil in a restricted space, conducting away the gaseous fluid after it passes through the pipe and delivering the oil back into the main body of oil and continuing the operation until the whole mass of oil is acted upon and its fluidity increased.

1,453,480. SHIPPING CONTAINER. WALTER E. SANDERS, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed June 7, 1920. Serial No. 386,976. 4 Claims. (Cl. 206—46.)



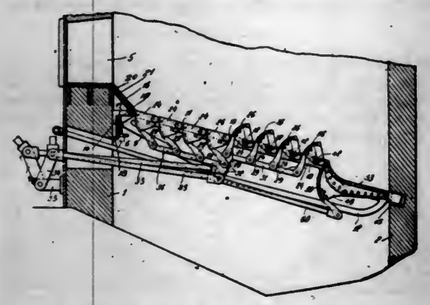
1. In a container the combination of an apertured frame for supporting resilient articles, means associated with said articles and said frame to hold two articles on said frame on opposite sides thereof and opposite each other, a portable flexible box to hold said frame and articles, and interlocked partitions associated with said frame and said articles to retain said frame in predetermined position.

1,453,481. HEATER FOR WATER TANKS. CHRIS F. H. SPIEGEL, Hamburg, Iowa. Filed Oct. 4, 1922. Serial No. 592,372. 1 Claim. (Cl. 126—368.)



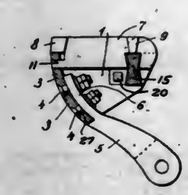
In a heating device, a water tank, a heat casing disposed within the tank, one end of said casing being supported in spaced relation to the bottom of the tank by a bracket, the opposite end of the casing having an opening registering with an opening in the adjacent wall of the tank, a substantially U-shaped burner support disposed in the registering openings of the tank and casing, said support having the upper portion of each end thereof cut away, and one of said end portions of the support extending into the casing, the opposite end portion of the support extending outwardly of the casing to provide an air conduit, and burner means supported by the inner end portion of the support.

1,453,482. STOKER. GEORGE HORNELL THACHER, Jr., North Providence, R. I. Filed Jan. 23, 1920. Serial No. 353,423. 4 Claims. (Cl. 110—39.)



1. In a hand stoker having inclined bearing bars, and stoker bars mounted to rock thereon, a fixed supporting bar at the upper ends of the bearing bars and fixed bearing boxes for the lower ends of the bars, the bearing bars having hooked engagement with the supporting bar, and sliding engagement with the boxes, thereby to permit expansion and contraction without distortion of the bearing bars, the supporting bar being notched to receive the bearing bars thereby to prevent lateral movement of the upper ends of the bearing bars.

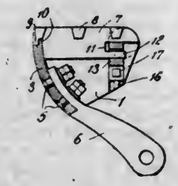
1,453,483. STOKER. GEORGE HORNELL THACHER, Jr., North Providence, R. I. Filed Dec. 28, 1920. Serial No. 433,595. 5 Claims. (Cl. 110—39.)



1. A grate structure comprising a frame composed of a curved shield, and end members, provided with trun-

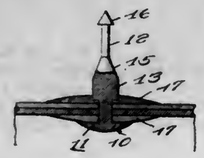
nions on which the frame may rock, a plurality of detachable grate sections resting on the upper edge of the shield and cooperating to cover said edge and to form a guard for the same, and means for connecting said sections to the frame to prevent upward movement of said sections while permitting longitudinal expansion and contraction of the members.

1,453,484. STOKER GRATE. GEORGE HORNELL THACHER, Jr., North Providence, R. I. Original application filed Jan. 23, 1920, Serial No. 353,423. Divided and this application filed Dec. 28, 1920. Serial No. 433,596. 4 Claims. (Cl. 126—180.)



4. A grate structure comprising side members connected by a shield having a rib extending longitudinally of its upper edge, grate sections resting upon the said upper edge and having transverse grooves for receiving the rib, and covering said upper edge, a crossbar detachably connected with the side members and having apertures, the grate sections resting upon and covering the crossbar, and each section having a tongue for engaging one of said apertures.

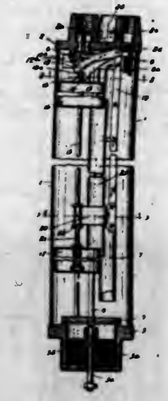
1,453,485. REPAIR PLUG FOR INNER TUBES. JOHN R. BOSBURGH, Johnstown, N. Y. Filed Feb. 7, 1923. Serial No. 617,503. 5 Claims. (Cl. 152—26.)



5. A sealing plug for use in closing punctures in tubes comprising a mushroom-shaped element formed of rubber and having an enlargement upon the stem thereof, having a shoulder facing the head and concavo-convex washers having their concave faces opposed mounted upon the stem intermediate the enlargement and the head and adapted to receive therebetween the tube to be repaired, the convex face of the washer remote from the head being provided with a socket receiving the lower end of said enlargement.

1,453,486. AIR-POWER WATER PUMP. JACOB A. AEBLY, West Concord, Minn. Filed Apr. 8, 1921. Serial No. 459,557. 15 Claims. (Cl. 103—248.)

1. A pump of the class described having in combination, a cylinder, a water inlet valve therefor, an air exhaust valve and an air inlet valve, and means for operating said air exhaust and inlet valves comprising



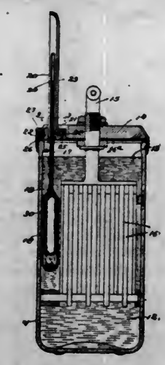
water operated floats and connections therefrom to said valves and a weighted lever pivoted to the air exhaust valve.

1,453,487. ADAPTER FOR SAFETY RAZORS. WALTER ALTHOFF, Geneva, N. Y., assignor to Geneva Cutlery Corporation, Geneva, N. Y., a Corporation of New York. Filed Oct. 11, 1921. Serial No. 506,979. 8 Claims. (Cl. 30—12.)



1. The combination with a base plate and a cap plate adapted to receive a razor blade between them, of means having a portion positioned between said base plate and said cap plate for holding a razor blade in an exterior position.

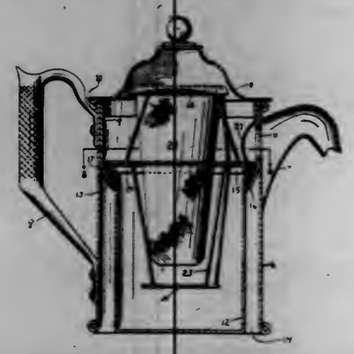
1,453,488. HYDROMETER. EDWARD F. ANDREWS, Maywood, Ill. Filed June 24, 1918. Serial No. 241,532. 6 Claims. (Cl. 285—46.)



1. The combination with a storage cell, of a cover therefor having an opening therein adapted to receive

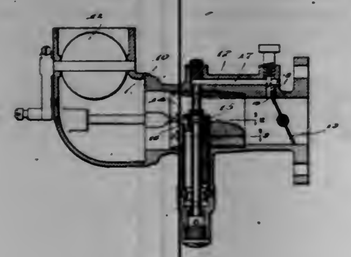
a guide, a hydrometer adapted to float in the liquid of said cell and to project upwardly through said guide, a scale carried by said guide adjacent said hydrometer, and an indicator carried by said hydrometer and adapted to be read against said scale to indicate the specific gravity of said liquid.

1,453,480. COFFEEPOT. VICTOR BENEDEK, Chicago, Ill. Filed Apr. 30, 1921. Serial No. 465,680. 7 Claims. (Cl. 53—3.)



1. A coffee pot comprising an outer metallic member, and an inner member mounted therein, said inner member including an aluminum container and a metal sleeve embracing and supported on the upper edge of said container.

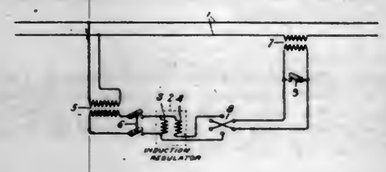
1,453,490. CARBURETOR. EARL ALBERT BESSOM, Indianapolis, Ind., assignor to The Wheeler-Schebler Carburetor Co., Indianapolis, Ind., a Corporation of Indiana. Original application filed Apr. 30, 1917, Serial No. 165,323. Divided and this application filed Mar. 6, 1919. Serial No. 280,923. 2 Claims. (Cl. 261—121.)



1. In a carburetor, the combination of a substantially horizontal mixing tube, a fuel nozzle projecting vertically thereinto, and a boss on the leeward side of and abutting against said fuel nozzle and provided with a stream line surface whereby the formation of a pool of liquid on the leeward side of the fuel nozzle is prevented.

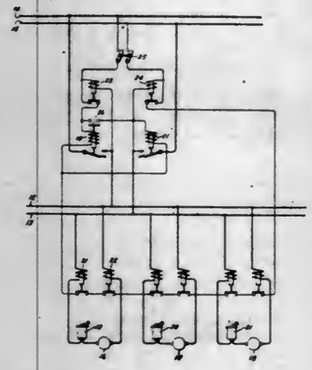
2. In a carburetor, the combination of a substantially horizontal mixing tube, a fuel nozzle projecting upward thereinto, and a boss formed on the inner face of said mixing tube and located on the leeward side of and against said fuel nozzle, said boss tapering off both laterally toward the center line thereof and downward so as to form a stream line surface which is swept clean of fuel by the passing air stream.

1,453,491. VOLTAGE-REGULATING SYSTEM. FRANKLIN J. CHAMPLIN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 22, 1921. Serial No. 454,447. 14 Claims. (Cl. 171—119.)



13. In a voltage regulating system for an alternating current circuit, the combination of an induction regulator having its inducing and induced windings connected together as an auto-transformer and provided with the proper number of turns so that the voltage across the secondary winding of the transformer is zero when the regulator is in a predetermined bucking position, a series transformer having its primary winding connected to the terminals of said regulator and its secondary winding connected in series with the circuit to be regulated, and switching means adapted to be operated to reverse the connections of one of the windings of said transformer.

1,453,492. OVERLOAD CIRCUIT CONTROLLER. CHARLES B. CONNELY, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 2, 1921. Serial No. 489,358. 5 Claims. (Cl. 175—294.)

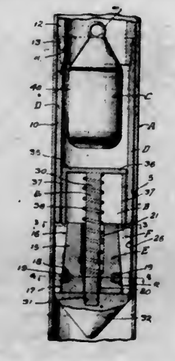


1. The combination with an electric circuit of an electromagnetic switch biased to the open position for controlling the same, current responsive means for controlling the winding of the said switch, a normally closed electromagnetic relay having its winding connected across the circuit making contacts of the said switch for controlling the switch winding, and connections whereby upon an overload in the said circuit the current responsive means operates to deenergize the line switch and said relay is energized to maintain the winding of the said switch open until the voltage drop across the said contacts is reduced to a predetermined value.

1,453,493. FISHING TOOL. GEORGE F. CUNNINGHAM, Alexandria, La. Filed Sept. 1, 1921. Serial No. 497,479. 7 Claims. (Cl. 294—96.)

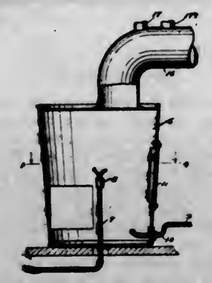
1. A fishing tool comprising a body having a plurality of tapered guide ways therein, wedge shaped jaws slidably

mounted in said guide ways, means for normally holding the jaws in an inoperative non-work engaging position



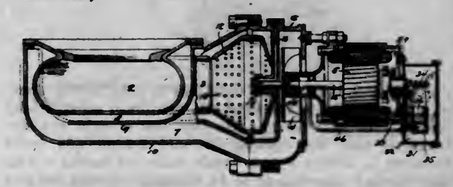
in said guide ways, and means for forcibly moving said jaws outwardly into a work engaging position.

1,453,494. AIR WASHING AND COOLING APPARATUS. PURLY A. DENNON, Grand Island, Nebr. Filed Oct. 20, 1919. Serial No. 332,044. 1 Claim. (Cl. 261—88.)



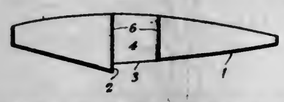
In an air washing and cooling apparatus, the combination of an inverted conical drum, an air inlet conduit communicating tangentially with the drum adjacent its bottom, an air outlet conduit communicating with the drum through its top at a point spaced from the outer edge and center thereof, a fluid injector in the drum between the inlet and outlet ports thereof, a fan in communication with the inlet conduit, and a fluid drain pipe adjacent the bottom of the drum and communicating therewith at a point below the inlet port thereof.

1,453,495. LIQUID-FUEL BURNER. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed Jan. 5, 1920. Serial No. 349,374. 8 Claims. (Cl. 158—36.)



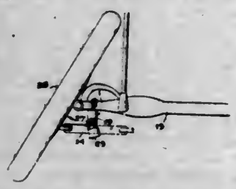
6. In a liquid fuel burner, a metallic combustion chamber, a housing surrounding and spaced from said combustion chamber whereby a passage is formed within the housing, a fuel mixing chamber discharging into the combustion chamber, means for blowing air through said passage and into said fuel mixing chamber, means in the mixing chamber for producing a fuel spray and means for igniting the combustible mixture.

1,453,496. HYDROAEROPLANE. CLAUDIUS DORNIER, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,555. 1 claim. (Cl. 244—2.)



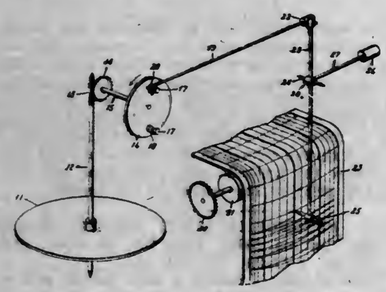
A flying boat comprising a hydroplaning hull provided with a bottom step, a bottom opening, and an internal compartment, the walls of which surround the opening and extend vertically upward, the opening forming a passageway from the compartment through the bottom and through which articles may be dropped, the forward boundary of the opening being located at the step.

1,453,497. THEFT-PREVENTION DEVICE FOR AUTOMOBILES. JAMES N. FARLOW, San Francisco, Calif. Filed Mar. 13, 1922. Serial No. 543,495. 7 Claims. (Cl. 70—90.)



7. A theft prevention device for automobiles comprising a body member, means for attaching the body member to the axle of an automobile, means for adjusting the last named means to provide for the securing of the body member to axles of different sizes, an angular member adjustably supported by the body member and capable of movement to engage a front wheel of the vehicle, and means for locking the angular member in wheel engaging position, said angular member preventing access to the adjusting means when in wheel engaging position.

1,453,498. MAXIMUM-DEMAND METER. WALTER L. HAMILTON, Holyoke, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,695. 5 Claims. (Cl. 234—5.5.)



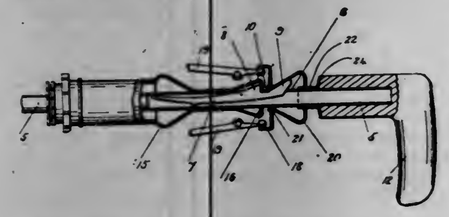
1. A recording electric meter comprising a shaft adapted to be rotated at a speed proportional to a metered quantity, an oscillating member, mechanical means driven by said shaft for mechanically oscillating said member at a frequency varying in fixed proportion to the speed of rotation of said shaft, and means for recording the oscillations.

1,453,499. UMBRELLA. MORRIS H. HARTZELL, Philadelphia, Pa. Filed Oct. 18, 1921. Serial No. 508,503. 4 Claims. (Cl. 135—44.)



3. A tubular umbrella rod provided with a slot, a spring catch inclosed in and pivoted to the said rod and having a plurality of teeth which project from the said slot, a runner slidable on the rod and engaging with the said catch, and a finger sleeve slidable on the said rod and engaging with the said catch and provided with a tip cup, said sleeve operating when moved down the rod to first release the umbrella ribs from the tip cup and then to release the runner from the catch, said spring catch operating also to move the runner and tip cup upwardly on the rod to a predetermined extent when the finger sleeve is released by the fingers.

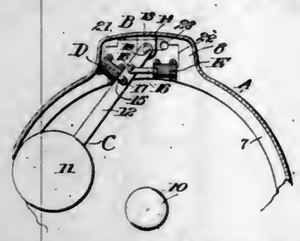
1,453,500. UMBRELLA. MORRIS H. HARTZELL, Philadelphia, Pa. Filed May 15, 1922. Serial No. 561,126. 2 Claims. (Cl. 135—41.)



1. The combination, with an umbrella rod provided with a spring retaining catch for the runner, said catch having also a projecting tooth; of a finger sleeve slidable on the rod and having a projection which bears constantly on the inclined face of the said tooth, said sleeve being slid upwardly on the rod by the said spring catch and operating to release the runner when slid downwardly by hand, and a tip cup secured to the finger sleeve and adapted to release the umbrella ribs while being slid downwardly and prior to the release of the runner.

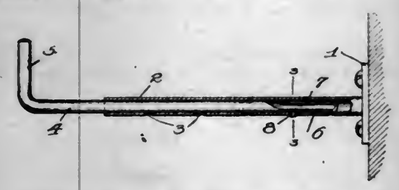
1,453,501. AUTOMOBILE LIGHT DIMMER. CHARLES S. HASH, Chadron, Nebr. Filed Dec. 16, 1920. Serial No. 431,063. 1 Claim. (Cl. 240—45.)

In a light dimmer, a casing, a lamp therein, said casing being extended at its top to provide a dome, a lug depending from the casing into the dome, an arm pivoted to said lug and carrying a dimmer disk, electro-magnets in said dome one on each side of the arm and adapted at adjacent ends to directly abut the arm, said magnets having slidable armatures pivoted to said arm, one of said magnets being adapted to actuate the arm in one direction to dispose the disk in line with the lamp, the other of said magnets being adapted to actuate the arm in the opposite direction to inutile position, the magnets being



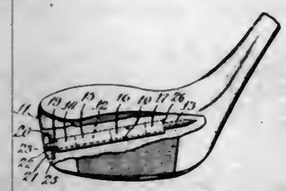
disposed at an angle to each other and with the ends aforesaid corresponding to the angle of the arm when in engagement therewith, respectively.

1,453,502. HOOK. CYRUS S. HINDERLITER, Eddyville, Pa. Filed Aug. 16, 1922. Serial No. 582,230. 5 Claims. (Cl. 156—22.)



1. Fastening means for an adjustable curtain rod comprising a tubular member having openings disposed at spaced intervals longitudinally thereof, a rod adapted to snugly fit the tubular member, one end of said rod being flattened to provide a resilient strip, the end portions of said strip being extended back upon the strip to provide a substantially U-shaped spring member, the distance between said members being slightly less than the diameter of the rod, and a snap button projecting from said strip adjacent the junction of said strip with the rod, the reverted end portion of the strip being adapted to engage the inner surface of the tubular member remote from the opening and coacting with the snap button to prevent movement of the rod relative to the tubular member.

1,453,503. GOLF CLUB. THOMAS J. HOLMES, Chicago, Ill. Filed Aug. 8, 1921. Serial No. 490,460. 1 Claim. (Cl. 46—4.)



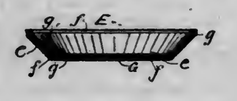
A golf club head having a materially long boring therein, a rod secured to the head and positioned substantially coaxially in said boring, the free end of said rod terminating near the opening of said boring and being threaded to receive a nut, weight material having a hole therethrough adapting it to fit slidingly on said rod and having an external diameter adapting it substantially to fit the boring in the head, said weight material substantially filling said hole from end to end and being mounted on said rod, and a nut on the outer end portion of said rod.

1,453,504. AUTOMATIC SELF-LOCKING FOLDING TABLE. JOHN F. JANISCH, Kirksville, Mo. Filed Nov. 10, 1921. Serial No. 514,382. 2 Claims. (Cl. 45—116.)



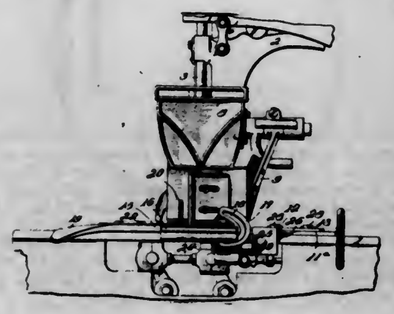
1. A folding table including top sections, links connecting the same, legs pivotally connected to the sections adjacent the outer ends thereof, foldable ties supported by the links and slidably and pivotally engaging the top sections, stop devices supported by the links for engagement by the ties to support the inner ends of the top sections in extended or active positions, and foldable braces connecting the top section and the legs and pivotally and slidably engaged by the ties for folding the legs inwardly between the top sections when said sections are folded together.

1,453,505. CUP PACKING FOR PISTONS. ROBERT C. KENDALL, Chicago, Ill. Filed Oct. 21, 1921. Serial No. 509,352. 3 Claims. (Cl. 74—108.)



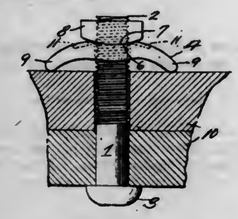
1. A new article of manufacture forming a cup piston packing, and comprising a saucer shaped member made of leather and provided with a central aperture and an inner saucer shaped member made of textile material and provided with a central aperture, said inner member provided with a cement coating on the inner face thereof, and said members joined by cement applied on adjacent faces thereof.

1,453,506. SEWING MACHINE FOR STITCHING WAISTBANDS. BENJAMIN V. KERSHNER, Kansas City, Mo., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 30, 1920. Serial No. 369,865. 3 Claims. (Cl. 112—136.)



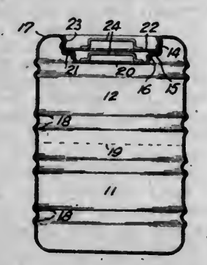
1. A sewing machine for stitching waist bands comprising stitching mechanism having spaced needles for forming two rows of stitches, a guide for the lining strip shaped to infold the edges thereof, a guide for the stiffening strip located beneath the lining strip guide, a binder for directing the binding about the edge of the stiffening strip, said binder being disposed in advance of one of said needles, an edge guide disposed in advance of the other needle for directing the edge of a body fabric between the lining strip and the stiffening strip, and a guide located beneath the stiffening strip guide for directing a tacking strip to the needle stitching the binding to the stiffening strip.

1,453,507. NUT LOCK. MATTHEW D. KIMBALL, Omaha, Nebr., assignor of one-half to David P. Feder, Omaha, Nebr. Filed June 21, 1922. Serial No. 269,084. 3 Claims. (Cl. 151—38.)



1. The combination with the threaded shank of a bolt, a nut threaded on said threaded shank, of means for preventing retrograde movement of said nut after the same has been tightened, said means comprising a spring washer, said spring washer being provided with a transversely disposed concavity, the inner side of said nut being provided with a transversely disposed convexed surface adapted to be received in the concavity, the ends of said washer curving outwardly, upwardly and downwardly and adapted to engage a surface whereby said washer will be flexed.

1,453,508. CONTAINER OR RECEPTACLE FOR CARBIDE AND THE LIKE. JESSE C. KING, Montreal, Quebec, Canada, assignor to Canada Carbide Company, Limited, Montreal, Canada. Filed May 31, 1919. Serial No. 300,915. 1 Claim. (Cl. 220—4.)



As a new article of manufacture, a container for carbide and the like, comprising a pair of cup-shaped members each having a substantially flat end or bottom and a circumferential wall integral therewith and merging gradually into the end wall in a curve of sufficient radius to eliminate sharply defined external ridges and internal crevices, the said members being connected at their free edges, and one of said members having in its bottom an opening, and a flange surrounding the opening projecting inwardly of the container and toward the axis thereof and formed to receive a screw cover and a friction cover.

1,453,509. VEHICLE BRAKE DEVICE. GEORGE S. LANE, San Francisco, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporaton of Pennsylvania. Filed June 4, 1921. Serial No. 474,984. 3 Claims. (Cl. 192—3.)

3. The combination of a valve device for controlling the fluid pressure brakes of a motor vehicle, a throttle

button adapted to be depressed for controlling the power, and a foot treadle for operating said valve device upon a



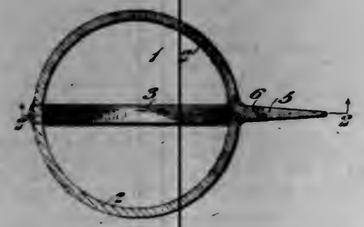
lateral movement thereof and for operating said button upon vertical movement in any lateral position of the treadle.

1,453,510. CAR-DOOR LOCK. WALTER H. LAWRENCE, Council Bluffs, Iowa, assignor of one-half to William A. Wells, Council Bluffs, Iowa. Filed Aug. 8, 1922. Serial No. 580,537. 1 Claim. (Cl. 292—201.)



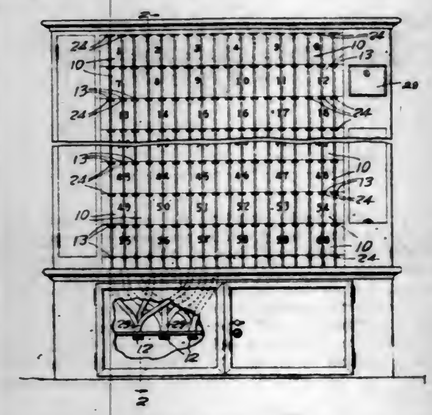
The combination with a railroad car having oppositely disposed doors, pivoted latching devices cooperating with said doors for locking the same, of means for rocking said pivoted latching devices for unlatching the doors, said means comprising a horizontally disposed cylinder disposed within the car, a centrally disposed partition in said cylinder, pistons disposed within the cylinder on opposite sides of the partition, coiled springs for normally forcing said pistons inwardly, rods carried by said pistons and extending outwardly, pin and slot connections between the outer ends of the rods and the pivoted latching devices, air supply pipes connected to the cylinder adjacent the inner ends thereof and in communication with the interior of the cylinder at opposite sides of the partition, valve means for controlling the flow of air through said pipes and means for controlling said valves from outside of the car.

1,453,511. GOLF-BALL DIPPER OR RETRIEVER. LAURENCE BANCROFT MELLOR, Clifford Park, Germantown, Pa. Filed Mar. 15, 1921. Serial No. 452,605. 3 Claims. (Cl. 46—4.)



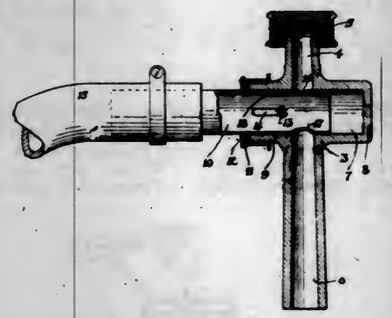
1. In a golf ball dipper or retriever, a skeleton frame formed of a supporting ring, and a rigid shoe extending below the plane of said ring transversely thereof, whereby a skeleton dipper is formed, which enables the device readily to be drawn through the water and foreign material to retrieve the ball sought to be reclaimed.

1,453,512. BANKING APPARATUS. CHARLES E. MEWOR, Spirit Lake, Iowa. Filed June 7, 1921. Serial No. 475,716. 4 Claims. (Cl. 232—1.)



1. A banking apparatus comprising a vertical series of independent coin holder units, such units comprising alining vertical passages, each marked to identify it with a bank customer, means to record the deposits in the various units and identify them with the respective customers, and means to discharge the contents of the various units at one point the coins from an upper unit passing through a lower unit to the point of discharge.

1,453,513. WATER EJECTOR. CHARLES H. METZ, Canton, Ohio, assignor to Clara A. Metz, Canton, Ohio. Filed Aug. 27, 1921. Serial No. 496,079. 1 Claim. (Cl. 162—1.)



An ejector including a tubular cross case with a supply connection at its inlet end and a discharge nozzle at its outlet end, a tubular valve slidable endwise in the cross case with a hose extension on its outer end, means for guiding and limiting the endwise movement of the valve, differential ports in the valve alined with the inlet and outlet ends of the case when the valve is at one limit of its endwise movement, and another port in the valve alined with the inlet end of the case when the valve is at the other limit of the endwise movement.

1,453,514. BOTTLE CLOSURE OR CAP. ROBERT MURCHIE, Detroit, Mich. Filed Aug. 15, 1921. Serial No. 492,356. 2 Claims. (Cl. 215—5.)

1. In combination with a bottle, a cap adapted to be received within the mouth thereof comprising an apertured layer adapted to fit snugly in said mouth, an imperforate layer hinged to said apertured layer and adapted to fold thereover within said mouth, a folding wall section positioned intermediate said layers so as

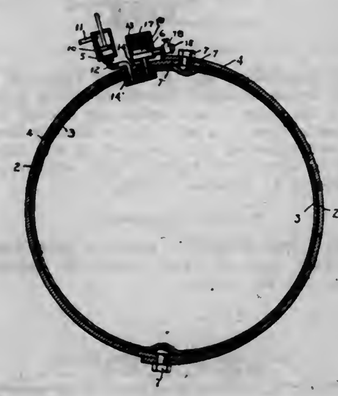


to fold therein against when the imperforate layer is closed down over the apertured layer and adapted to unfold so as to form side walls of a restraining spout leading from the aperture through the one of the said layers when the imperforate layer is upraised.

1,453,515. PROCESS OF MAKING VULCANIZATION ACCELERATORS. PAUL I. MURRILL, Plainfield, N. J., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Aug. 8, 1921, Serial No. 490,686. Divided and this application filed Nov. 1, 1922. Serial No. 598,421. 6 Claims. (Cl. 260—112.)

6. The process of making an oxidization product of a metallic salt of an organic acid, which comprises, condensing dimethylamine with carbon bisulphide, precipitating with an aqueous solution of zinc sulphate to form an insoluble zinc salt, and then oxidizing the precipitate.

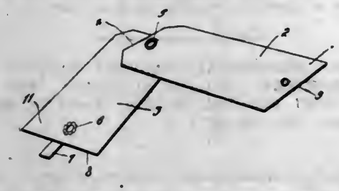
1,453,516. GAS HOLDER. JOSEPH R. PAYSON, Chicago, Ill. Filed Feb. 14, 1920. Serial No. 358,722. 8 Claims. (Cl. 220—3.)



1. A holder for fluid under pressure, comprising a fluid tight inner receptacle, and an outer receptacle having a wall composed of layers of tempered steel.

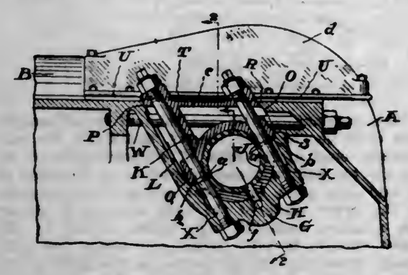
1,453,517. DUPLICATE TAG. STANLEY PENKRA, Long Island City, N. Y. Filed Nov. 20, 1920. Serial No. 425,502. 4 Claims. (Cl. 40—6.)

2. A device, as described consisting of a pair of independent tags identical in size and form, an eyelet connecting said tags at one end and an eyelet secured to one of said tags at its free end said last eyelet having



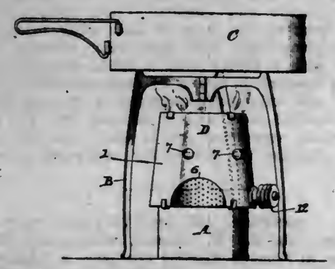
an elongated flexible tongue adapted to be bent over the other tag, whereby both free ends of the tags may be held together.

1,453,518. MAIN BEARING. WILLIAM T. PRICE, Easton, Pa., assignor to Price Engine Corporation, a Corporation of New York. Filed Aug. 7, 1920. Serial No. 401,850. 12 Claims. (Cl. 64—10.)



1. A main bearing comprising an engine frame having a slot therein the longitudinal axis of which is oblique to the vertical and in substantially the line of bearing wear, a bearing part in the closed end of said slot, a cap having a part adapted for insertion into the open end of said slot, having side surfaces fitting corresponding surfaces of said slot and a bearing part co-acting with said first bearing part, means for relatively adjusting said bearing parts lengthwise of the slot and for binding them securely in place, and means acting crosswise of the slot for binding said corresponding surfaces of said slot and cap together, said means being distinct from each other and separately operable at different times into definite final positions.

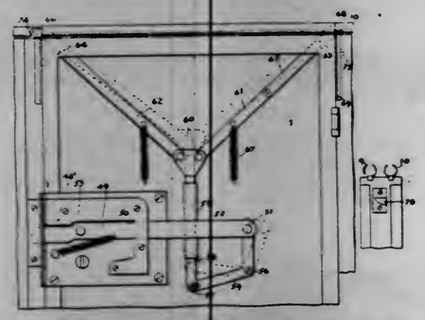
1,453,519. ALCOHOL-FLAME INTENSIFIER. ARCHIE MARTIN RAWLS, Dixon, Ill. Filed Apr. 3, 1922. Serial No. 549,042. 8 Claims. (Cl. 158—89.)



1. A burner for fuel receptacles having an open top comprising an outer sheet metal frusto-conical member, three cylindrical perforated sheet metal members con-

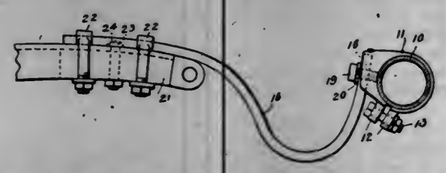
centrically arranged within the outer member, an inverted cone shaped flame spreader closing the top of the inner cylindrical member, and means for holding the parts in operative relation to each other.

1,453,520. HORIZONTALLY-MOVING WINDOW FOR AUTOMOBILES. WILLIAM RICHARDSON, San Francisco, Calif. Filed Mar. 30, 1920. Serial No. 369,875. 3 Claims. (Cl. 296—47.)



1. The combination with the body of an automobile having doors in the sides thereof, and a top for said automobile, open at its sides, of windows mounted between the top and body and adapted to be extended to close said open sides, tracks for said windows mounted upon the upper edges of the body and doors, similar tracks mounted upon the top, means carried by the windows slidable in said tracks, and means for automatically presenting an obstruction in the path of the windows at the end of the body carried tracks to prevent movement of said windows into the path of the door, when said doors are open.

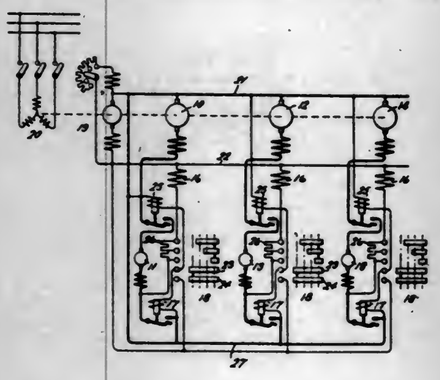
1,453,521. BUMPER-BAR-SUPPORTING BRACKET. PHILIP RIEDELE, Los Angeles, Calif. Filed Oct. 18, 1922. Serial No. 595,249. 1 Claim. (Cl. 293—55.)



In a device of the class described, the combination with a cylindrical bumper bar, of a split clamping collar for engaging and supporting said bumper bar, a bolt for securing the ends of said collar together to clamp the bumper bar, said collar being provided on its periphery with a flanged seat, a spring supporting arm having an aperture in one of its ends adapted to engage the seat, said collar being provided on its seat portion with a threaded bore, and a threaded bolt for securing the spring supporting arm to said collar, the end of said bolt engaging the bumper bar to prevent a turning movement.

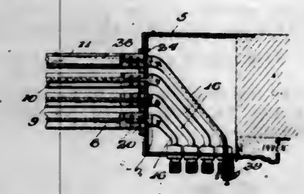
1,453,522. CONTROL OF DYNAMO-ELECTRIC MACHINES. HAROLD W. ROGERS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 6, 1922. Serial No. 592,849. 4 Claims. (Cl. 172—179.)

1. The combination in a system of control of a generator having a separately excited field winding, a motor, a contactor, a master switch, and connections whereby operating the master switch energizes the con-



tactor to close and simultaneously connect the motor to the generator and the generator field winding to a source of supply through the contacts of the contactor.

1,453,523. OPERATING MEANS FOR WINDOW SASHES. WILLIAM E. ROGGE, Gulfport, Miss. Filed Feb. 16, 1922. Serial No. 536,996. 2 Claims. (Cl. 292—305.)



1. The combination with a window frame, of a plurality of sashes arranged therein, operating arms connected to the edges of said sashes and passing through said window frame at a point spaced laterally from said sashes, and adjusting nuts threaded on said arms and adapted to engage said window frame whereby to hold the sashes in an adjusted position.

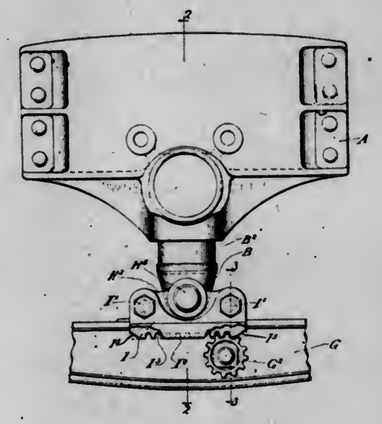
1,453,524. WIRE SPLICER. FRANK A. ROPP, Smithton, Pa. Filed June 16, 1922. Serial No. 568,850. 1 Claim. (Cl. 191—44.1.)



A wire splicer comprising an elongated body portion having a longitudinal bore adapted for the reception of wire ends to be connected, said body portion further provided with a slot opening into the said bore, a pair of oppositely disposed gripping members pivotally mounted in said slot, each of said members having a working face formed with teeth adapted to engage a respective wire

end, and a locking cover hinged to the body portion carrying a resilient element in engagement with said gripping members for locking the latter to the secured position.

1,453,525. ADJUSTABLE FRONT AXLE. JAMES ROSS, Laporte, Ind., assignor to Advance-Rumely Company, Laporte, Ind., a Corporation of Indiana. Filed Apr. 17, 1922. Serial No. 553,721. 15 Claims. (Cl. 280—80.)



1. In combination with a vehicle frame an axle and means for moving said frame bodily with respect to said axle, said means including a sliding member supported from said axle and carrying one end of the vehicle frame and a pinion mounted for rotation in said axle and adapted to engage said sliding member and when rotated to move the same so as to move the frame laterally.

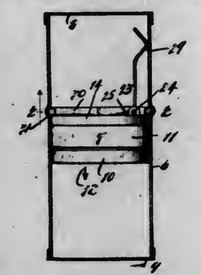
1,453,526. PROCESS OF FORMING BOX TOES FOR SHOES. ALBERT J. RYAN, Cincinnati, Ohio. Filed Jan. 15, 1920. Serial No. 351,666. 14 Claims. (Cl. 12—146.)



1. A method of preparing box toes for shoes which consists in independently forming a plastic blank over a forming die having the shape of the desired toe and an underlying channel with a base and side walls, and retaining said blank over said die and in said channel until in a state of fixation.

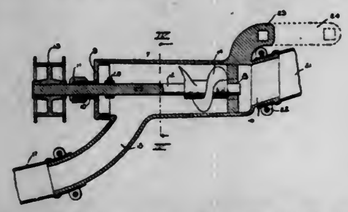
1,453,527. VOICE FOR DOLLS. FRANK G. SCHNEIDER, Brooklyn, N. Y. Filed Mar. 8, 1922. Serial No. 542,080. 3 Claims. (Cl. 46—46.)

1. In a sound producing device, a casing, one end of which is substantially airtight, a weighted plunger having an opening therein, and movable within the casing and having airtight contact with the surface thereof to force air through said opening, a reed carried by the plunger and disposed in the opening therein, a valve operable by the movement of said plunger to control the



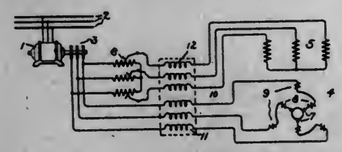
flow of air through the reed, and means within the casing to cooperate with the movement of the plunger to operate the valve.

1,453,528. COOLER ATTACHMENT FOR ENGINES. HENRY NELSON SCHOFIELD, Frederick, Md. Filed Sept. 8, 1921. Serial No. 499,209. 2 Claims. (Cl. 123—175.)



2. In a cooler for engines, the combination of a horizontal tube constituting a casing and extending longitudinally of an engine at one side thereof and provided adjacent its front end with a branch outlet, said tube having an interior bearing at its rear end and provided at its front end with a removable cap having a bearing, a shaft extending longitudinally of the said tube and slidably supported in the said bearings concentric with the said tube, the front end of the shaft projecting outwardly beyond the cap, a rotary pumping element consisting of a screw mounted on the rear portion of the shaft within the said tube, adjustable means mounted on the shaft and operating with the pumping element to limit the slidable movement of the shaft, means for connecting the rear end of the tube with the water jacket of the engine and for connecting the branch outlet with the radiator of the engine, a belt pulley mounted on the projecting front end of the shaft and arranged to receive the fan belt of the engine, the longitudinal movement of the shaft permitting the pulley to adjust itself automatically to the fan belt.

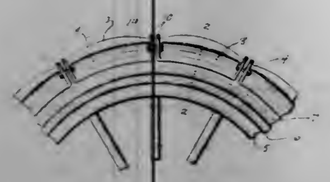
1,453,529. COMPOUND REGULATING SET FOR INDUCTION MOTORS. WALTER SEIZ, Baden, Switzerland, assignor to General Electric Company, a Corporation of New York. Filed Nov. 30, 1921. Serial No. 518,753. 8 Claims. (Cl. 172—274.)



1. In combination a source of supply, an asynchronous motor having its primary winding connected thereto, a

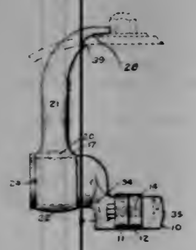
commutator machine connected in cascade with the secondary winding of said motor, means for exciting said commutator machine comprising inductively related exciting windings thereon, one of said windings being a series winding and means for neutralizing the inductive effect of said series winding on said other winding.

1,453,530. PNEUMATIC-TIRE ATTACHMENT. WILLIS A. SHUEY, Boise, Idaho. Filed Aug. 5, 1919. Serial No. 315,505. 1 Claim. (Cl. 152—16.)



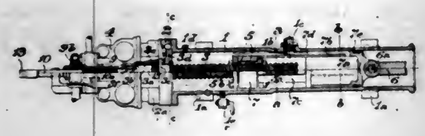
In a circumferentially adjustable segmental armor for tires a plurality of members embodying suitably curved tread fitting shoe sections, the longitudinal side faces of which are free of attaching means, each of said shoe sections being formed with a transverse peripheral flange at each end, each provided with a spaced pair of bolt holes towards the top of the section ends, and a central longitudinal rib extending between and merging at its ends into said respective end flanges, in combination with means for securing said shoe sections around the tire tread, independently of their longitudinal side walls to permit of limited radial bodily play, with said end flanges adjacent and slightly spaced to permit of endwise relatively individual adjustment of each shoe section, the said securing means embodying non-resiliently mounted bolts extending through complementary pairs of the bolt holes of each adjacent pair of said end flanges, and nuts for said bolts.

1,453,531. AUTOMOBILE LOCK. WILLIAM J. SMITH, New York, N. Y., assignor of one-fourth to Jerome S. Rawson and one-fourth to James A. H. Colgan, both of New York, N. Y. Filed Oct. 21, 1921. Serial No. 509,266. 8 Claims. (Cl. 70—129.)



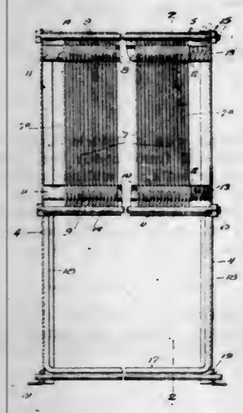
6. In an automobile lock the combination of a steering post housing clamp, a shaft integral therewith, a lock rigidly mounted in said shaft, a locking bar mounted so as to rotate freely on said shaft and having a head portion adapted to fit the angle formed by any two spokes of a steering wheel and adapted to be locked to said shaft in the upright position in the angle formed by any two spokes of a steering wheel.

1,453,532. STEAM-ENGINE-VALVE-REVERSING GEAR. FREDERICK R. STEVENS, Schenectady, N. Y. Filed Jan. 2, 1923. Serial No. 610,232. 6 Claims. (Cl. 74—40.)



1. In a steam engine valve reversing gear, the combination of a cylinder, closed at one end; a screw rotatable therein; a connecting member, fitting in said cylinder and effecting closure of the opposite end thereof, and adapted to be coupled to a reach rod; and a nut, fixed in said connecting member and engaged by the screw.

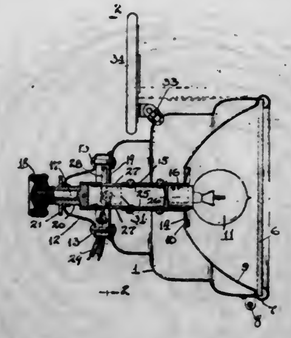
1,453,533. LOOM REED. LOUIS STROHACKER, Freeport, Ill., assignor to Structo Manufacturing Company, Freeport, Ill., a Corporation of Illinois. Filed May 15, 1922. Serial No. 560,909. 5 Claims. (Cl. 139—87.)



5. A loom reed comprising two pivotally supported, side frame members, upper and lower dent holding bars, substantially U shaped in cross section, the sides of which are bulged outwardly to form a channel therebetween, dents extending between said bars with their end portions passing through said channels, spacing discs located in said channels between the dents, and tie rods extending through the hollows of said bars along the ends of said dents, there being nuts upon said tie rods for clamping the side frame members upon the dent holding bars, and clamping said dents and discs between said side frame members.

1,453,534. LAMP FOR AUTOMOBILES AND THE LIKE. FREDERICK W. WAKEFIELD, Vermilion, Ohio, assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio, a Corporation of Ohio. Filed Jan. 24, 1917. Serial No. 144,108. 7 Claims. (Cl. 240—44.)

5. In a lamp of the character described, the combination of a suitable casing open at both ends; a glass closing the front end of said casing; a removable plate closing the rear end of said casing; a reflector mounted in said casing, said reflector having a central aperture; a spindle both rotatably and longitudinally adjustably mounted in said plate in line with such aperture, said



spindle being provided with a lamp-socket at its forward end; and circuit connections to such socket controlled by the rotative position of said spindle.

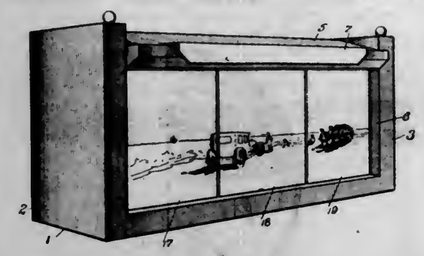
1,453,535. LIGHT SIGNAL. WESLEY B. WELLS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1921. Serial No. 447,443. 2 Claims. (Cl. 240—44.)

1. A light signal comprising a frame, an optical projecting device mounted in said frame, a bracket attached to said frame and adjustable vertically with relation thereto, said bracket having a horizontal member provided with relatively large round holes, a lamp receptacle resting on said member and provided with relatively small holes, a plate located underneath said horizontal member and provided with threaded holes, screws passing snugly through the holes in said receptacle and through the holes in said bracket with considerable clearance and screwing into the holes in said plate, and a lamp mounted in said receptacle for supplying light to said optical projecting device.

1,453,536. SIGNBOARD. FRED G. WHITE, Kansas City, Mo., assignor to Lewis R. Long, Kansas City, Mo. Filed Mar. 11, 1921. Serial No. 451,521. 5 Claims. (Cl. 40—76.)

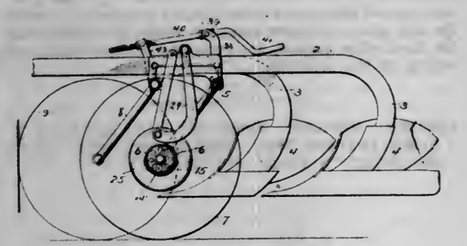
1. A device of the class described comprising rotatable, indicia-carrying drums having complementary aligning faces and mounted for rotation on fixed axes, mechanism for simultaneously rotating the drums to successively present complementary aligning faces, said mechanism including a draw bar pitman for actuating the drums,

a cam having a neutral portion and a pitman-actuating portion, means for actuating the cam, and locking means



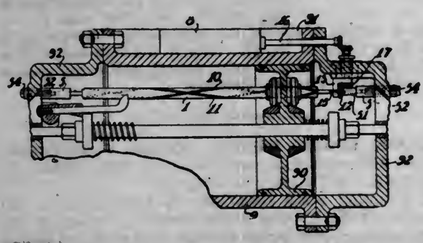
for temporarily engaging the drums to hold them in fixed aligning portions, said locking means being controlled from the cam-actuating means.

1,453,537. POWER-LIFT MECHANISM FOR PLOWS. HERMAN E. ALTGELT, New Braunfels, Tex., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Apr. 5, 1919. Serial No. 287,756. 10 Claims. (Cl. 97—73.)



4. In an agricultural implement of the character described, the combination with a frame, an axle and a carrying wheel, of an oscillatory lifting member loose on the axle, means for locking said member to the carrying wheel, and a rigid lifting arm pivotally connected with the frame, said lifting arm extending between the carrying wheel and lifting member and pivotally connected directly with the outer face of the latter.

1,453,538. FRACTIONAL COUNTER. LACEY BADOS, Portland, Oreg., assignor to American Liquid Meter Company, Portland, Oreg., a Corporation of Washington. Filed Nov. 7, 1921. Serial No. 513,350. 13 Claims. (Cl. 235—91.)



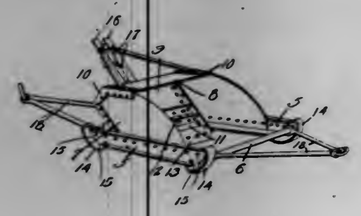
1. In combination, in a meter having a reciprocable member, mechanism operable by rotation in one direction only, and means operable by movement of the meter member in either direction for causing rotary movement of the mechanism in the single operating direction.

1,453,539. HEADLIGHT LENS. ROBERT H. BARZ, Stockton, Calif. Filed May 15, 1922. Serial No. 560,886. 1 Claim. (Cl. 240—48.4.)



A non-glare attachment for automobile headlight lenses comprising a metal beading adapted to be placed about the periphery of the lens, a metallic and substantially semicircular hood mounted on the upper half of the beading and projecting inwardly thereof, said hood following the contour of the reflector of the headlight and the inner edge thereof sloping inwardly from its lower edges toward the top, and a reflector mounted within the hood along the inner edge thereof, the reflecting surface facing inwardly of the headlight.

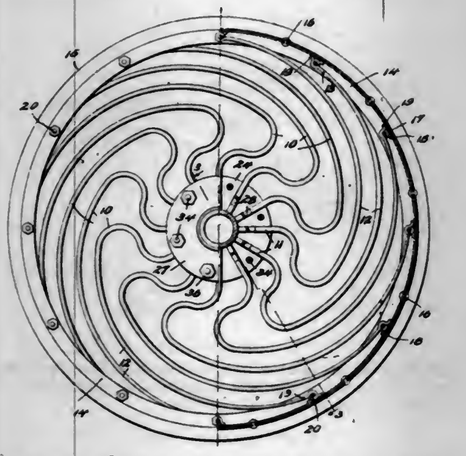
1,453,540. BUCKET. FITCH H. BEACH and FRED S. BEACH, Charlotte, Mich. Filed Dec. 22, 1921. Serial No. 524,223. 1 Claim. (Cl. 37—135.)



A scoop including side bars, a body portion secured to the side bars, said body portion including side members, a rear wall having connection with the side members and including an upper stationary section and a lower digging section, means for hingedly connecting the digging section to the upper stationary section, the lower edge of the digging section extending an appreciable distance below the lower edges of the side bars to dig into the surface over which the scoop is being moved, and a top section for connecting the side members.

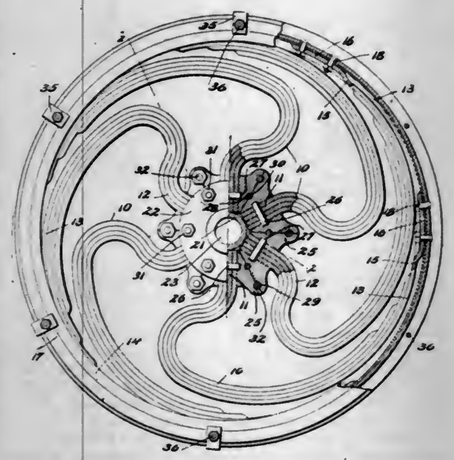
1,453,541. SPRING WHEEL. WILLIAM JAKOB BEISEL, Port Richmond, N. Y. Filed July 26, 1921. Serial No. 487,615. 10 Claims. (Cl. 152—50.)

1. A spring wheel comprising in combination a continuous channel bar rim facing inwardly, a series of flat metal spring spokes curved between their ends and having outer end portions extending along and close to the inner surface of the base of the channel bar rim between its side flanges, and pivot pins passing laterally through said side flanges and operatively connected to said spokes, the said end portions being spaced inwardly from the base of the channel bar rim to said pins but having extensions beyond the pivot pin making yielding contact with



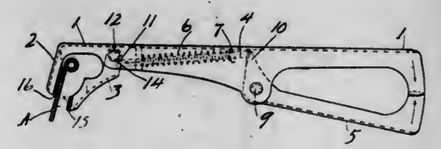
the inner face of the rim and reversely curved end portions extending from said pins making contact with said inner face of the rim in advance of said pins.

1,453,542. SPRING WHEEL. WILLIAM JAKOB BEISEL, Port Richmond, N. Y. Filed Dec. 7, 1921. Serial No. 520,577. 2 Claims. (Cl. 152—50.)



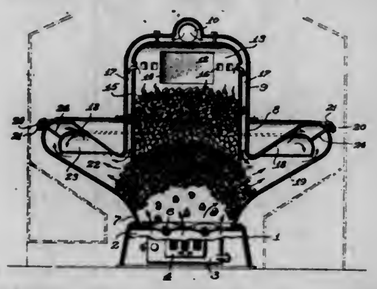
1. In a vehicle wheel, the combination with a hub of an inwardly facing channel bar rim, a series of similar leaf spring spokes entering said hub radially and secured thereto, each spoke being curved laterally of the radial plane of its inner end at a point near the hub, then reversely with substantial uniformity back to a point near said plane and then on a gradually increasing radius, the ends of the outer leaves entering between the side flanges of the rim, the end portion of the outer leaf beyond the end of the next inner leaf being offset outwardly a short distance lying in close contact with the inner surface of the base of the rim and bolts passing through and connecting said end portions and two rims.

1,453,543. GRASPING INSTRUMENT. FRED BONSER, Colorado Springs, Colo. Filed May 19, 1921. Serial No. 471,023. 2 Claims. (Cl. 294—31.)



1. A grasping instrument comprising in combination, a stalk, extending the whole length of the instrument; a jaw member at one end of said stalk and integral therewith and extending at an angle of about forty-five degrees from the line of extension of said stalk; a separate jaw provided to oppose said integral jaw and to register therewith and pivotally secured at its upper end to the under side of said stalk; a plunger pin pivotally secured at its forward end to said separate pivotally secured jaw to operate it against said integral jaw; a bell crank pivoted on said stalk on its under side near its longitudinal center with its longer lever extending longitudinally with said stalk to its end and its short lever extending toward said stalk, the end of said short lever being pivotally secured to the opposite end of said plunger pin from said pivoted jaw; a coil spring surrounding said plunger pin and normally forcing it toward said bell crank, thus drawing said pivotally suspended jaw from said integral jaw, and soft cushions on the faces of said jaws, for the purposes specified.

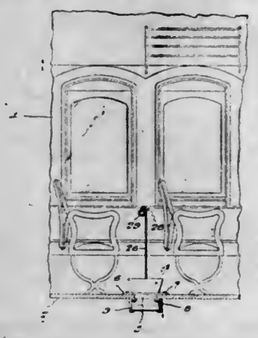
1,453,544. FURNACE OR STOVE. ALBERT A. BRUDER, Holly, Mich. Filed Oct. 20, 1921. Serial No. 509,024. 3 Claims. (Cl. 126—74.)



1. A magazine stove comprising a fire box having a substantially semi-circular heating radiating drum formed by parallel walls disposed at an angle to the vertical axis of the stove, said fire box having an upper cylindrical end supported by one of the walls of said drum, an exhaust flue for said drum, a cover mounted on the cylindrical end of said fire box and provided with an air inlet opening, and a dome suspended in said cover and having a doorway at said cover so that fuel may be placed in said dome, said dome cooperating with said cover in providing a passage opening into said drum, and said drum having openings communicating with said passage.

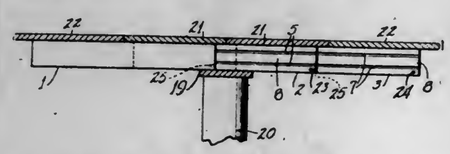
1,453,545. AUTOMATIC CUSPIDOR. EDWIN W. BUTTON and CLARENCE E. BUTTON, Corning, N. Y. Filed Aug. 18, 1921. Serial No. 493,303. 1 Claim. (Cl. 4—39.)

In a cuspidor for the floor of cars, etc., including, in combination, a bowl having an open bottom provided with an extending neck that is received in an opening in the floor, and means securing the bowl on the floor, a casting having an opening therethrough in register with the opening in the neck of the bowl, said casting comprising two similar sections, one of which being secured to the under face of the floor, and adjustable means securing the second section to the last mentioned section, said sections having at their confronting surfaces a substantially rectangular depression entering from one side of the casting, a flat valve received in the depression,



guided by the side walls thereof and limited in inward movement by contact with the inner wall thereof, a stem centrally formed on the outer edge of the valve, guide means for the stem, and a helical spring surrounding the stem and exerting a tension between said guide means and said outer end of the plate whereby to sustain the same in a position to normally close the passage through the casting, and means for moving the stem to influence the valve to uncover said opening.

1,453,546. TABLE-SLIDE CONSTRUCTION. EARL H. COOK, Watertown, Wis. Filed Feb. 6, 1922. Serial No. 534,511. 2 Claims. (Cl. 45—115.)



1. A table slide construction comprising three members having their vertically disposed sides slidably engaging with each other, L-shaped grooves in the abutting surfaces of each slide, the aligned grooves of adjacent member forming U-shaped slots the portions of the slots connecting the arms of the slots being disposed adjacent to the top and bottom of said members and in a horizontal plane, and connecting plates adjustably carried by said members and being adapted to slidably connect said members together, said plates having horizontally disposed sides adapted to slidably engage with the horizontal portions of said grooves, whereby the maximum amount of supporting surface is provided between the members by the connecting plates, the plates connecting the end members to the central member being upwardly offset so as to elevate the outer ends of the end members slightly with respect to the central member.

1,453,547. BARREL-HOLDING DEVICE. BEN F. CULVER and WILLIAM H. DOYLE, Platteville, Wis.; said Culver assignor to said Doyle. Filed May 18, 1922. Serial No. 561,912. 1 Claim. (Cl. 248—58.)

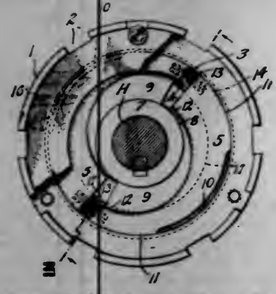
A barrel supporting device, comprising oppositely arranged pairs of legs, pivot elements passing through the

upper ends of the legs in opposite pairs whereby the pairs of legs may be shifted to opened and closed positions, a brace connected with one leg and adapted for detachable connection with the leg in the opposite pair, a hoop arranged between the upper ends of the legs and apertured for receiving the pivot elements, a substantially U-shaped supporting element having its ends apertured and arranged between the upper ends of said



legs and pivotally receiving the pivot elements, a diagonal brace serving to detachably connect the hoop and substantially U-shaped supporting elements, and a diagonal brace pivotally connected with the substantially U-shaped supporting element and adapted for detachable engagement with one of said legs, the legs, hoop, and substantially U-shaped supporting element all turning upon the same pivot elements and adapted when collapsed to lie in substantially the same plane.

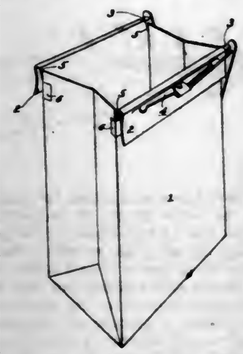
1,453,548. OVERRUNNING CLUTCH. TYRRELL H. DUNCOMBE, Detroit, Mich. Filed Dec. 16, 1921. Serial No. 522,771. 4 Claims. (Cl. 192—41.)



1. In a device of the character described, the combination with a driving member and a driven member, of a member secured to one of said first named members to turn therewith and having an annular contact surface, a cam member secured to the other of said first named members to turn therewith, a pair of friction shoes interposed between said annular face and said cam member and means interposed between the adjacent ends of said shoes for yieldingly holding said shoes in spaced relation to each other and in yielding contact with said annular face.

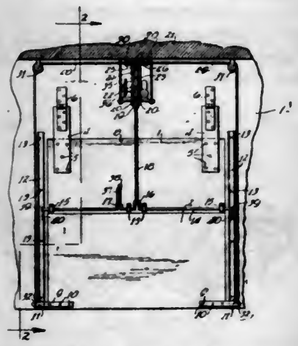
1,453,549. BAG. ARTHUR J. FARNSWORTH and ETHELBERT M. ST. CLAIRE, San Francisco, Calif., assignors to W. S. Beach, San Francisco, Calif. Filed Mar. 15, 1920. Serial No. 366,047. 1 Claim. (Cl. 229—53.)

A relatively tall paper bag formed to leave an oblong opening in the top thereof, the material on two opposite sides of the bag terminating in ends extending beyond the ends of the other two sides to leave relatively long attaching flaps to be received by a bracket for suspending the bag with the opening therein held wide open,



the corners of the bag adjacent said flaps being slit a short length of the corner folds, and patches attached to the bag sides around the corner folds to reinforce the folds at the termination of the slits.

1,453,550. DOOR-OPERATING DEVICE. JOHN E. W. FOGAL, Quincy, Ill. Filed Apr. 9, 1921. Serial No. 460,044. 2 Claims. (Cl. 268—1.)

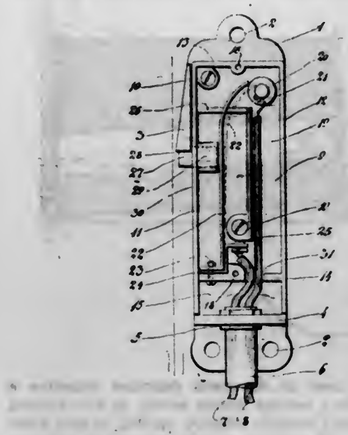


1. The combination with a folding door consisting of a plurality of hingedly connected sections arranged to be edgewise alined in a vertical plane when in closed position of a horizontally disposed rock shaft secured to the upper section of said door and being formed with locking members projecting laterally of the door, cooperating locking members secured at opposite sides of the door in position to be engaged normally by the first named locking members to hold the door against movement from closed position, cables connected to said rock shaft intermediately and to the lower section of said door, and means for operating said cables to release the door and to move the sections thereof toward folded position.

1,453,551. ELEVATOR INTERLOCKING DEVICE. JOHN E. W. FOGAL, Quincy, Ill., assignor to Fogal-Williams Safety Devices, Inc., Quincy, Ill., a Corporation of Illinois. Filed Oct. 19, 1921. Serial No. 508,810. 4 Claims. (Cl. 187—31.)

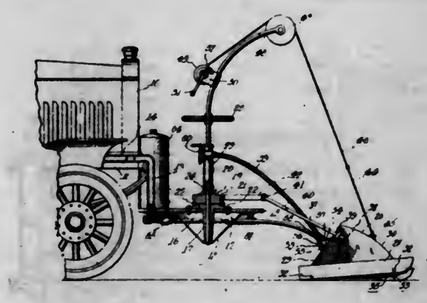
2. A device of the character described comprising a base, a cam surfaced tooth integral with said base, a casing of insulating material carried by said base, a contact post carried by said casing, a spring contact

member carried by said casing and normally out of engagement with said contact post, said casing having an opening therethrough adjacent one end of said cam



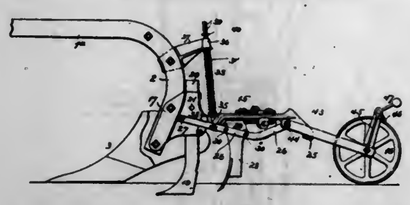
tooth, and a plunger slidably disposed in said opening and adapted to move said spring contact member to engage said contact post when pressure is brought to bear thereon.

1,453,552. MACHINE TO MELT SNOW AND ICE. HERVEY L. FULLER, WALTER F. NESBIT, and PER O. PETTERSON, Galesburg, Ill. Filed Nov. 22, 1921. Serial No. 517,042. 2 Claims. (Cl. 126—271.2.)



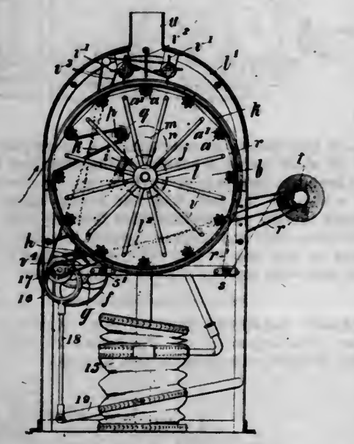
2. In apparatus for melting snow and ice, the combination with a wheeled vehicle, of a substantially horizontal support carried thereby, an upstanding rod pivotally mounted upon the support to turn upon its longitudinal axis, a horizontally swinging member mounted upon the rod, a flame hood arranged upon one side of said member, a pair of arms having their forward ends pivotally connected with the hood and their rear ends pivotally connected with said member to swing in a substantially vertical plane, a pulley secured to the upper portion of said rod, a winding device mounted upon the rod, a flexible element engaging the winding device and extending about the pulley and connected with the hood, a substantially horizontal pipe pivotally mounted upon the rear side of the hood, burner elements carried by the pipe and projecting into the hood, a gear mounted upon the pipe to turn it, means mounted upon the rod to operate said gear, and a flexible connection between the gear operating means and gear.

1,453,553. COMBINED PLOW AND PLANTER. ARTHUR D. GALLAGHER, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed July 23, 1920. Serial No. 398,354. 3 Claims. (Cl. 111—83.)



1. The combination with a two wheeled lister plow having lifting means, a planter in rear of the plow, and a presser wheel in rear of the planter, of draw bars attached to the planter and pivotally connected with the plow, draw bars for the presser wheel having pivotal connection with the planter, a part cooperable with the plow and with the planter to raise the latter when the plow is raised, and a part carried by the planter and cooperable with the draw bars of the presser wheel for raising the latter when the planter is raised.

1,453,554. MACHINE FOR USE IN DRYING OR TREATING PHOTOGRAPHIC PRINTS, FILMS, AND THE LIKE. ELLIS GRABER, Tunbridge Wells, England. Filed Dec. 4, 1922. Serial No. 604,937. 10 Claims. (Cl. 34—48.)

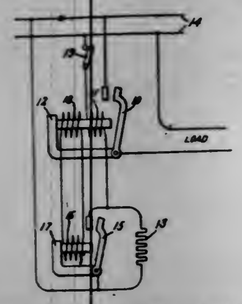


5. In a machine for drying and otherwise treating photographic prints, films and so forth, the combination comprising a hollow shaft, a pair of plates mounted on said shaft, a plurality of rollers revolubly mounted between said plates, driving means for said shaft and said rollers, a plurality of radial pipes communicating with said hollow shaft, and a plurality of perforated pipes connected to said radial pipes, said hollow shaft, radial pipes and perforated pipes serving for directing air on to the prints, films and so forth on their passage between the plates and over the rollers.

1,453,555. ELECTROMAGNET AND CONTROL THEREFOR. GEORGE E. STACK, Ballston Spa, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 21, 1920. Serial No. 432,331. 7 Claims. (Cl. 175—335.)

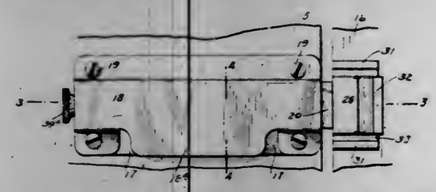
2. The combination with an electromagnet having an operating winding and an auxiliary winding inductively

related thereto, of a movable member operated in response to the energization of the operating winding, and means



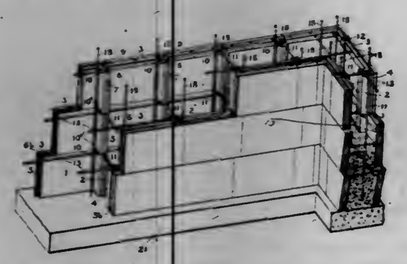
operated responsively to the voltage induced in the auxiliary coil for automatically reducing the current in the operating winding.

1,453,556. DOOR LATCH AND LOCK. HENRY A. THEXTON, Minneapolis, Minn., assignor to Thexton Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 20, 1920. Serial No. 397,626. 15 Claims. (Cl. 70—29.)



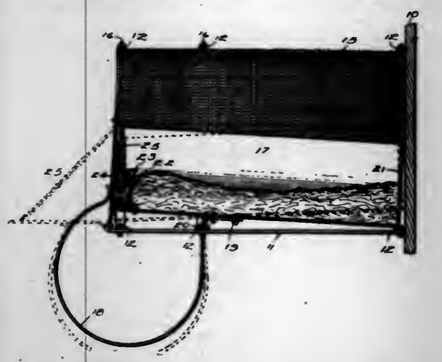
1. A lock having in combination a rectangular boxlike bolt of sheet metal, a boxlike casing enclosing the same and having a tongue bent up from one side thereof forming a stop for the bolt, said bolt having spaced tongues pressed therein at opposite sides forming slots, and an adjustable stop and trigger member adapted to be received in any one of said slots and adapted to contact with said stop member formed in the casing.

1,453,557. MASONRY STRUCTURE. WILLIAM F. WAGNER, Washington, D. C. Filed June 29, 1922. Serial No. 571,799. 14 Claims. (Cl. 72—30.)



1. In a masonry structure, two series of blocks arranged apart so as to leave a space between them, the blocks of each series being provided with inner retaining supports and with sockets on their upper surfaces, in combination with aligning rods engaging the retaining supports and each spanning a number of said blocks, and transverse tie bars, each engaging the sockets of opposite blocks with its ends.

1,453,558. HEN'S NEST. WILLIAM H. WAY, Ankeny, Iowa. Filed June 12, 1922. Serial No. 567,560. 5 Claims. (Cl. 119—50.)



1. A hen's nest of the class described including a housing section, a moving bottom section in said housing section, a closure member hingedly secured to said housing section, a rod mounted on said bottom and extended through said housing section for forming a pivot for said bottom section, the free end of said rod being received against the closure member, whereby movement of said bottom will cause movement of the closure member for the purposes stated.

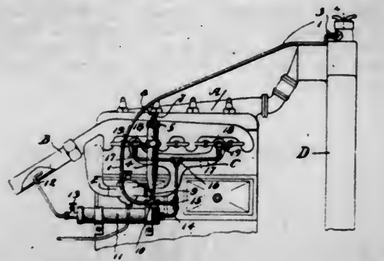
1,453,559. WINCH. BENJAMIN F. WEBB, Sistersville, W. Va., assignor, by direct and mesne assignments, to Webb Multispeed Winch Manufacturing Company, Sistersville, W. Va., a Corporation of West Virginia. Filed Feb. 14, 1922. Serial No. 536,435. 4 Claims. (Cl. 254—186.)

1. In a mechanism as characterized, a driving shaft, a winding drum loosely mounted on said driving shaft, a planetary gearing interposed between said driving shaft and one end of said drum for effecting the rotation of the latter correspondingly with the rotation of the shaft, and a second planetary gearing interposed between said driving shaft and the other end of said drum for effecting the rotation of the latter in a direction reversed to the direction of rotation of the shaft.

1,453,560. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. WALTER W. WHETSTINE, Portland, Oreg. Filed Aug. 20, 1920. Serial No. 404,868. 6 Claims. (Cl. 123—25.)

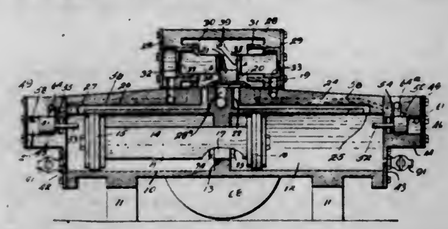
1. The combination with an internal combustion engine having a conventional fuel intake means and exhaust

discharge means, of a reservoir adapted to contain glycerin, moisture supply means for supplying moisture to the glycerin, means connecting said exhaust discharge means with the fuel intake means, and means



connecting said glycerin reservoir with the connecting means between the exhaust discharge means and the fuel intake means whereby glycerin is volatilized and introduced into the explosive mixture passing to the firing chamber.

1,453,561. STEAM PUMP. WILLIAM WILLSHAW, Des Moines, Iowa. Filed Sept. 6, 1921. Serial No. 498,930. 6 Claims. (Cl. 103—51.)



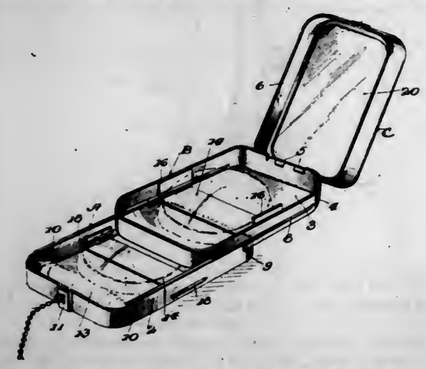
4. In a steam pump, a cylinder having a transverse partition, a double-headed piston slidably mounted in said partition, a steam cylinder, passages connecting said steam cylinder with said first-named cylinder on opposite sides of said partition, a slide valve for controlling the flow of steam through said passages, a piston in the steam cylinder operatively connected with said valve, and means controllable by the movement of said first piston for controlling the flow of steam from said steam cylinder and the movement of the second piston.

1,453,562. PROCESS FOR THE PRODUCTION OF ALKALI-EARTH-METAL PERMANGANATES. ROBERT E. WILSON, LEON W. PARSONS, and STANLEY L. CHISHOLM, Washington, D. C. Filed Sept. 27, 1918. Serial No. 255,975. 13 Claims. (Cl. 23—13.)

1. In a process of making permanganates, adding to barium manganate a reagent which reacts therewith to produce permanganate radical and treating the sme with a compound of an alkali-earth metal and forming the corresponding permanganate.

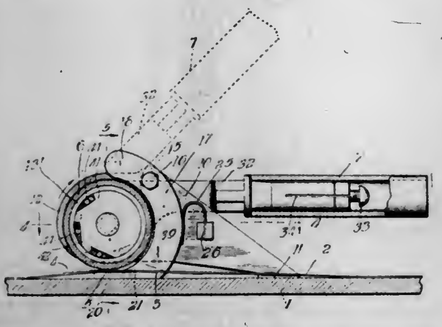
1,453,563. VANITY CASE. SAMUEL ALBERT, New York, N. Y. Filed Oct. 17, 1922. Serial No. 595,177. 6 Claims. (Cl. 132—83.)

5. A vanity case comprising a main box, a cover box slidably connected with the main box and sliding in the direction of length of said main box into and out of register therewith, the main box having at one end fastening means cooperating with complementary means hereinafter specified and a lid hinged at one end to the end of the cover box opposite the fastening means of the main box and having at the free edge of said lid fastening means cooperating with those on the end of the main box, all substantially as described, whereby when the vanity case is closed the fastening means may operate to secure the two boxes and the lid in closed relation and



when the case is opened the two boxes and the interior of the lid may be exposed in alinement, as and for the purposes set forth.

1,453,564. STRETCHING TOOL. ARTHUR G. G. GUENTHER, Chicago, Ill., assignor to Signode System, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 25, 1918. Serial No. 246,665. 20 Claims. (Cl. 254—51.)



1. A stretching tool of the class described comprising means to engage overlapped strap ends and feed them longitudinally in opposite directions, said means being adapted automatically to grip the strap ends between them with a grip varying according to the tension of the strap.

1,453,565. AGRICULTURAL IMPLEMENT. EDWARD M. HEYLMAN, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Original application filed Mar. 14, 1918, Serial No. 222,334. Divided and this application filed Sept. 27, 1918. Serial No. 255,928. 1 Claim. (Cl. 64—10.)

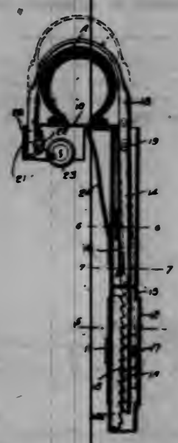
The combination of a supporting member provided with a hub member having two portions differing in diameter, a soil engaging disk, a spindle having a central bore provided with a threaded portion and having two bearing portions differing in diameter, bushings disposed between the hub and the respective bearing portions of the spindle and separated from each other, forming a chamber between them, said spindle having a part fixed to the rear face of the disk, a bolt in the bore of the spindle and headed at its rear end, said bolt terminating at its other end, rearwardly of the disk and engaging the threaded portion of the bore in the spindle, a disk dis-

posed between the head of the bolt and the free end of the spindle and engaging the latter, and a cap entering



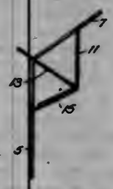
said hub and inclosing the free end of the spindle and the headed end of said bolt.

1,453,566. TIRE HOLDER. ELIJAH GORDON JEFFRIES, Tacoma, Wash. Filed July 1, 1921. Serial No. 481,837. 2 Claims. (Cl. 224—24.)



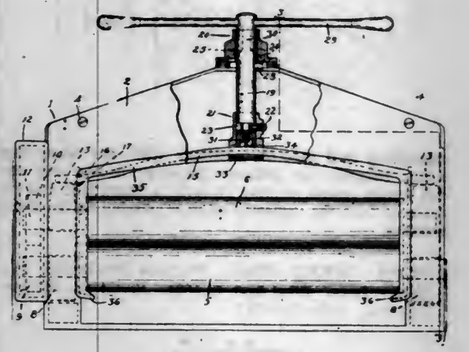
1. A tire holder of the class described, including a rim adapted to receive a tire, clamps having radially disposed shanks movable longitudinally relatively to each other, the respective shanks overlapping, means to lock the shanks against relative movement, said shanks having terminal clamping members in hooked form, sockets on the rim in which the ends of the clamping terminals are receivable, and means to lock the said ends in the sockets.

1,453,567. FOLDABLE STRUCTURE. JOHN D. MACDONALD, Boston, Mass., assignor to Forbes Lithograph Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 2, 1919. Serial No. 314,955. 6 Claims. (Cl. 206—44.)



1. A foldable structure comprising hingedly associated sheet-like elements of card or the like slitted across the line of junction to provide a relatively movable strip connected at its ends to the sheets and having a hinged brace on one side of the strip.

1,453,568. WRINGER. EDGAR D. MISNER, Detroit, Mich., assignor of one-fifth to Julius J. Battenfeld and one-fifth to Henry Retz, both of Detroit, Mich. Filed May 20, 1921. Serial No. 471,136. 16 Claims. (Cl. 68—32.)



7. In a wringer, the combination with a frame and a pair of rolls mounted thereon, of movable means rotatable in opposite directions for moving one of said rolls toward the other, and means for holding said rotatable means in different predetermined positions when said movable roll is moved toward the other.

12. In a wringer, the combination with a pair of rolls, of a member connected to one of said rolls and adapted to move the same toward the other, a tensioning rod loosely connected to said member and adjustable to move the same and the roll connected thereto toward the other roll, said rod being adapted to be held in an adjusted position, and yieldable means for holding said member in a predetermined position with respect to said rod when said rod is released.

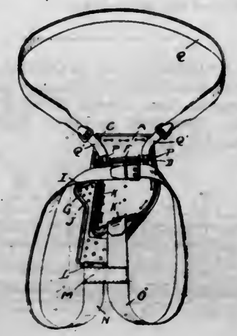
1,453,569. CHICKEN ROOST. WINFIELD E. RANDALL, Eyota, Minn. Filed Aug. 31, 1922. Serial No. 585,463. 2 Claims. (Cl. 119—25.)



1. A chicken roost embodying an elongated body formed with a longitudinal channel opening through the top thereof and having a longitudinal apertured partition in the channel dividing it into small and large communicating compartments, the large compartment being intended to hold absorbent material for the insecticide and the small compartment being intended to be filled with the liquid insecticide to thoroughly and gradually saturate the absorbent by permitting passage of the liquid through the aperture.

1,453,570. TRUSS. WILLIAM SCHUERG, Menard, Tex. Filed Dec. 16, 1921. Serial No. 522,963. 9 Claims. (Cl. 128—117.)

1. A truss including a pad, a back plate consisting of a main section and a separate scrotal section flexibly connected to the main section, and lying in substantially the same plane therewith and flexible attaching con-

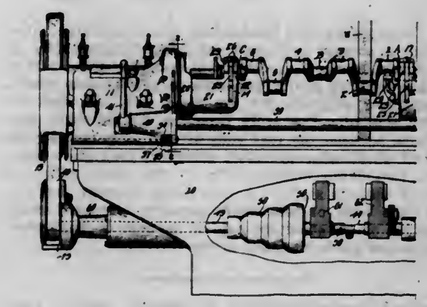


nections extending from both of said back plate sections, said pad extending across both the main and scrotal sections of the back plate.

1,453,571. PROCESS FOR TREATING PHOSPHATE ROCK. RAHL P. STEVENSON, Newton, Mass. Filed Jan. 15, 1921. Serial No. 437,579. 3 Claims. (Cl. 71—7.)

1. A process for treating pebble phosphate initially containing tricalcium phosphate, calcium carbonate, moisture and organic matter, which consists in heating the crude phosphate without addition of other materials, to a temperature not over 2,000 degrees Fahrenheit approximately to decompose the calcium carbonate and cause a substantially complete conversion of the free lime resulting from the decomposition of the calcium carbonate, as phosphate.

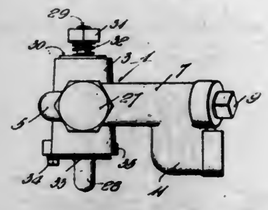
1,453,572. MACHINE FOR GRINDING CRANK PINS. PAUL STONER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1920. Serial No. 424,901. 23 Claims. (Cl. 51—237.)



1. In a grinding machine, opposed chucks to hold the work, and means for driving said chucks comprising aligned shafts, differential gearing connecting said shafts and connections from the shafts to the chucks.

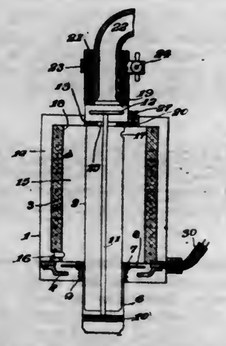
1,453,573. AUTOMATIC CUT-OFF FOR GAS LINES. THEODORE TOLLA and EDGAR WARREN BOOTS, Ellwood City, Pa. Filed May 8, 1922. Serial No. 559,471. 10 Claims. (Cl. 67—115.)

1. An automatic cut-off for gas supply lines comprising a body provided with main and auxiliary passages through which the gas is designed to pass separately and in succession, a valve in said main passage, a runway communicating with both of said passages, a retainer in the run-way for co-operation with said valve, a rotary turn-



plug in said body and having a two-way passage co-operative with said passages, and spring means acting on the valve to automatically maintain it in position so that one of the passages normally communicates with the main passage in the body.

1,453,574. ELECTRIC WATER HEATER. ZOLTAN TROTZER, Budapest, Hungary. Filed Nov. 1, 1921. Serial No. 512,109. 4 Claims. (Cl. 219—39.)



1. In an electric water heating apparatus, a receptacle, an electric heating body therein, a water passage leading along said heating body, and constructed to permit a relatively slow flow of water, another water passage shunting the former passage and constructed to permit a relatively rapid flow of water, a valve inserted in said shunting passage, coupled with a switch inserted in the circuit of the heating body and means tending to open the said valve and the switch.

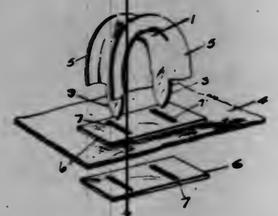
1,453,575. ABSORBENT-COTTON SUBSTITUTE FOR MEDICAL BANDAGES. JAMES TURNER TONO and JOHN EDWARD BLOSSER, Chester, Pa., assignors to Scott Paper Company, a Corporation of Pennsylvania. Original application filed Apr. 27, 1918, Serial No. 231,229. Divided and this application filed June 19, 1918. Serial No. 240,880. 3 Claims. (Cl. 128—296.)



1. A substitute for cotton batting in medical bandages, comprising a plurality of superposed layers of delicate open-mesh webs of vegetable fiber, the open-mesh portions of the fibers being irregularly disposed over each other and providing a spongy honeycombed structure having great absorbent qualities, the said open-mesh layers hav-

ing their contacting surfaces roughened by the fibers being crowded in more or less parallel lines to increase the sponginess without materially decreasing the open-mesh character.

1,453,576. ROPE GUIDE. JOHN R. WEAVER, Baltimore, Md. Filed Aug. 10, 1922. Serial No. 580,850. 1 Claim. (Cl. 156—15.)



In combination, a rope guide having a semi-circular member offering a toric surface to the path of movement of the rope, said semi-circular member ending in prongs, and clamping plates provided with apertures adapted to receive said prongs.

1,453,577. TYPEWRITING MACHINE. FRANK HURBERT ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,195. 43 Claims. (Cl. 197—128.)



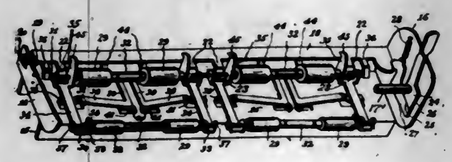
1. In a paper feed mechanism, the combination of a platen support, a platen on said support, front and rear feed-rolls shafts, transverse members supporting said shafts, manually rockable means adjacent the rear feed-roll shaft and having an up-and-down sliding connection with said shaft and adapted to engage and depress the rear ends of said members when rocked in one direction, means for locking the members to said rockable means to rock as a unit therewith after a preliminary depression of the rear ends of the members, and yieldable means connected with said members for normally holding the feed rolls against the platen.

1,453,578. TYPEWRITING MACHINE. FRANK H ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,850. 15 Claims. (Cl. 1[illegible]—38.)



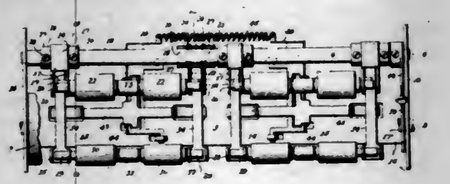
1. In a typewriting machine, a platen carriage, a platen on the carriage, a feed-roll-frame on the carriage having front and rear feed-roll shafts, feed rolls on said shafts, means for forcing the frame downwardly away from the platen, and means for resiliently pressing said frame upwardly toward the platen embodying a rockable yoke-like member pivotally mounted on the platen-carriage, a spring for actuating said member, and a bar supported on said member pivotally connected to one of the shafts of the feed-roll-frame and normally bearing upwardly against the under side of the other shaft.

1,453,579. TYPEWRITING MACHINE. FRANK H. ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,851. 19 Claims. (Cl. 197—138.)



1. In a typewriting machine, the combination of a platen carriage, a platen rotatably mounted on the carriage, a feed-roll frame, tandem feed-rolls mounted in the frame, and a pair of spring-urged members engaging opposite ends of the frame and pivotally mounted on the platen carriage to swing about axes extending transversely of the platen.

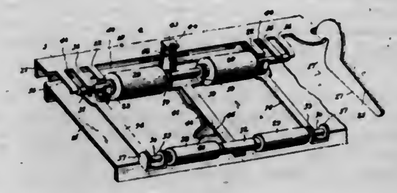
1,453,580. TYPEWRITING MACHINE. FRANK H. ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Nov. 16, 1918. Serial No. 262,828. 22 Claims. (Cl. 197—13[illegible])



1. In a paper feed mechanism, the combination of a platen, a cast-off rock-shaft extending longitudinally of the platen, means for rocking said cast-off shaft, a pair of tandem feed-roll shafts, feed-rolls on said tandem shafts, independent supports for the front and rear feed-roll shafts extending forwardly from the cast-off shaft, connections between the rear ends of said supports and the cast-off shaft whereby either roll-shaft may move away from the platen independently of the other while the cast-off shaft is stationary, and means whereby first one and then both of said shaft supports is rocked away from the platen about the axis of the cast-off shaft when the cast-off shaft is rocked in one direction.

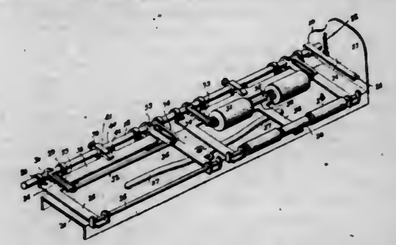
1,453,581. TYPEWRITING MACHINE. FRANK HURBERT ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,578. 24 Claims. (Cl. 197—1[illegible].)

1. In a typewriting machine, the combination of a platen carriage, a platen rotatably mounted on the carriage, a cast-off rock-shaft journalled on the carriage, tandem feed-roll shafts, spaced feed rolls on each of the shafts, means rigid with the rock shaft for supporting one feed roll shaft and having a lost-motion connection with said feed roll shaft permitting independent movement of the feed-roll shaft toward and from the platen, means pivoted directly to the rock shaft to swing toward and from the platen when the rock-shaft is stationary for supporting the other feed-roll shaft, and means engaging



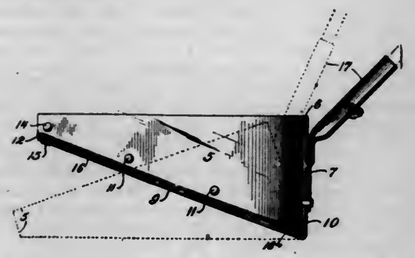
the feed-roll shafts between the spaced rolls thereon for pressing the feed-roll shafts toward the platen.

1,453,582. TYPEWRITING MACHINE. FRANK HURBERT ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,579. 13 Claims. (Cl. 197—138.)



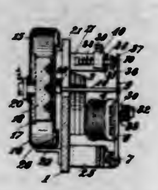
1. In a paper feed mechanism, the combination of a platen, a rockable cast-off shaft, means for rocking said cast-off shaft, a one-piece sheet metal feed-roll frame pivoted directly to the cast-off shaft to swing about the cast-off shaft when said shaft is stationary and provided with bearings for a feed-roll shaft, a tappet on the cast-off shaft adapted to engage and swing the frame away from the platen when said shaft is rocked in one direction, lugs on the frame at opposite sides of the tappet, means for yieldably urging the frame toward the platen, a feed-roll shaft extending through the bearings on the frame, a feed-roll loosely mounted on the feed-roll shaft between said bearings, and integral bendable stops on the frame bendable into alignment with the ends of the feed-roll shaft for holding the shaft in the frame.

1,453,583. ASH SIFTER. PAUL BERMAN, Wilmington, Del. Filed May 2, 1922. Serial No. 557,842. 6 Claims. (Cl. 83—60.)



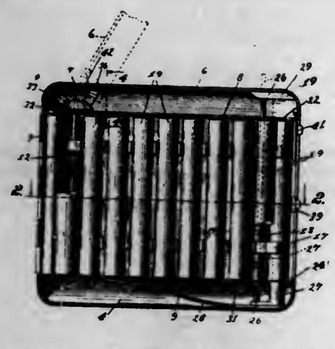
1. A sifting device comprising a body wall open at the front and extending perpendicularly to its top edge, and a reticulated bottom inclined from the rear toward the top edge of the body.

1,453,584. DEVICE FOR AMPLIFYING TELEPHONE CURRENTS AND OTHER ELECTRIC OSCILLATIONS. JOHANNES BLANKENBURG, Berlin, Germany, assignor, by mesne assignments, to Naamlooze Vennootschap Finanzieele Maatschapij "Driebergen," Amsterdam, Netherlands, a Company of the Netherlands. Filed June 17, 1919. Serial No. 304,966. 4 Claims. (Cl. 179—171.)



1. In a device for amplifying telephone currents and other electric oscillations a polarized magnet system, the magnet field of which is varied by the electric oscillations, an elongated armature comprising a relatively thick and rigid portion disposed in front of the poles of said polarized magnet system and a relatively elastic portion at a greater distance from said poles, a bearing of the magnetic force of the polarized field, a transmittr for said armature at each of its ends contrary to the action of the magnetic force of the polarized field, a transmitter, and a coupling of the movable electrode of the transmitter with the said armature, the connection of said coupling to the armature being closer to the point at which the magnetic force of said polarized magnet system acts than to one of the bearings of the armature.

1,453,585. DISPENSING CIGARETTE CASE. JOSEPH GIUFFRE and CURTIS W. RICH, San Francisco, Calif. Filed May 14, 1921. Serial No. 469,719. 13 Claims. (Cl. 206—41.)

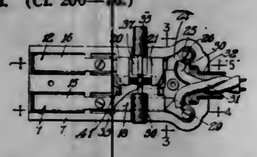


1. A cigarette case comprising a container arranged to receive a plurality of cigarettes; a cover hingedly connected to said container; a cigarette dispensing member slidably and pivotally mounted within the container and arranged to engage one end of a cigarette; a spring mounted within the container in engaging relation with the dispensing member to move said member to dispense said cigarette when the cover is opened; and means actuated by the closing of the cover for moving successive cigarettes into dispensing position after each preceding cigarette has been dispensed.

1,453,586. SOLDERING FLUX. EUGENE M. HEARNE, Brooklyn, N. Y. Filed Jan. 18, 1921. Serial No. 438,259. 5 Claims. (Cl. 148—23.)

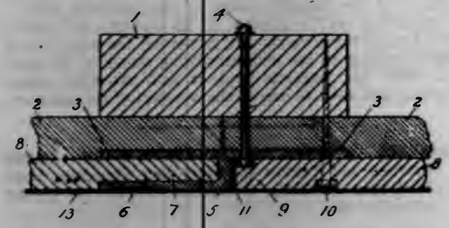
1. A flux for use in connection with solder, comprising an admixture of charcoal and oxide of iron with rosin.

1,453,587. SWITCH-CONTROLLED ELECTRIC APPLIANCE. HARRY HERTZBERG, Brooklyn, N. Y., assignor to Magnus Electric Company, Inc., a Corporation of New York. Filed Mar. 9, 1922. Serial No. 542,362. 10 Claims. (Cl. 200—76.)



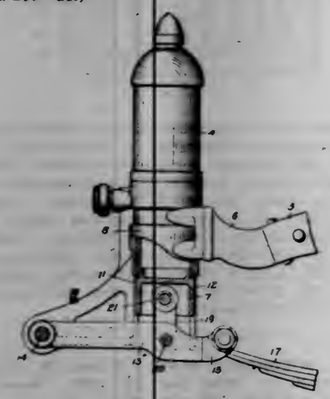
1. In an electrical appliance, a pair of contacts, a movable circuit closer carrying element, a circuit closer carried by said element and adapted to be moved bodily therewith toward said contacts, and means lying in the path of travel of said closer for restraining the ends of the same against movement while said element is being moved a predetermined distance, the ends of said closer being released upon continued movement of said element and thereafter snapped into electrical connection with said contacts.

1,453,588. SHIP CONSTRUCTION. JOSEPH T. L. LAVAGETTO, Portland, Oreg. Filed Oct. 26, 1922. Serial No. 596,981. 6 Claims. (Cl. 114—84.)



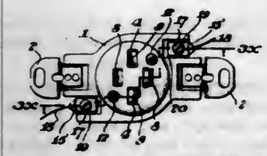
1. A copper sheathed wooden hull, comprising wooden ribs, inner planks secured on the wooden ribs, metal ribs on the outer surface of the inner planks adapted to form a seat for the outer planks, and outer planks having one edge grooved for the reception of oakum.

1,453,589. AIR-SPRING SUSPENSION. RICHARD LIEBAU, New Haven, Conn., assignor to The Westinghouse Air Spring Company, a Corporation of Pennsylvania. Filed Feb. 26, 1919. Serial No. 279,428. 2 Claims. (Cl. 267—18.)



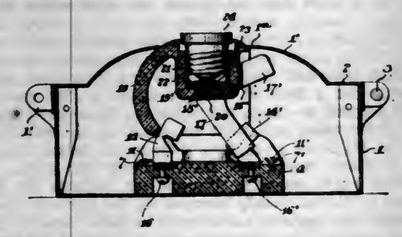
1. In combination with the load platform and the steel springs of a vehicle, an air spring comprising two telescopic members, the outer of which is slotted, means for rigidly securing the outer of said members to the load platform, a bracket rigidly secured to the outer member, a lever pivotally secured to said bracket and movable through said slot, and to the steel spring of the vehicle, and a shackle pivotally connected to the other member of the air spring and pivotally connected to said lever.

1,453,590. PLUG-RECEIVING WALL OUTLET. WALTER S. MAYER, Philadelphia, Pa., assignor to Heinemann Electric Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 22, 1921. Serial No. 479,484. 4 Claims. (Cl. 173—330.)



2. A plug switch receptacle comprising an insulating base having two pairs of apertures extending therethrough, a pair of one piece contacts having respectively integral bifurcations extending through said apertures, a pair of passages in said base, one piece electrical couplings in the respective passages adapted for direct connection with conducting wires, and means extending through said base for connecting said contacts and couplings together and to said base.

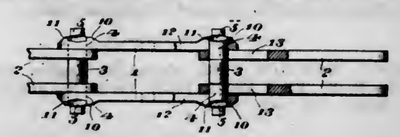
1,453,591. ELECTRIC SWITCH. WALTER S. MAYER, Philadelphia, Pa., assignor to Heinemann Electric Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 22, 1921. Serial No. 486,710. 6 Claims. (Cl. 200—114.)



3. An electric switch comprising the combination with a case having a lid with an opening therein and insulated contacts fixed in said case, of a device provided with a fuse plug socket adapted to oscillate in said case, a fuse plug in said socket, contacts fixed to said device and connected through said plug to make and break a circuit through said contacts first named, said fuse plug being in registration with said opening in the open relation of said contacts and out of registration with said opening in the closed relation of said contacts and automatically acting mechanism comprising an arm, an oscillatory slotted link having a spring controlled movable stud arranged to travel in said slot for effecting a quick make and break between said contacts.

1,453,592. DRIVE CHAIN. CHARLES FREDERICK MEIER, White Haven, Pa., assignor to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed Dec. 23, 1921. Serial No. 524,347. 2 Claims. (Cl. 74—32.)

1. A chain comprising links, each of which consists of oppositely disposed side members, the opposite ends of the side members of alternate links overlapping the adjacent ends of the side members of adjacent links, and the side members of each of the said links having elongated slots in their opposite ends, which slots extend longitudinally of said members and a pintle for connecting adjacent overlapping ends of the said links, the said pintles each consisting of a central portion oblong in cross section, said portion being of greater width than the width of the said slots, and pivot portions projecting from the opposite ends of said central portion, and means upon

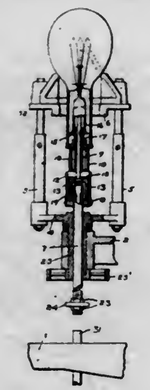


the outer ends of said pivot portions for retaining the links thereon, adjacent links of said chain being adapted to be turned to positions at right angles with respect to each other after which they may be moved inwardly toward each other and the said links after such latter movement being adapted to be moved into alinement with each other to cause movement of the pintle into position to permit removal of the links therefrom.

1,453,593. COATING FOR METAL MOLDS. DANIEL H. MELOCHE, Detroit, Mich., assignor to Earl Holley, Detroit, Mich. Filed Aug. 11, 1922. Serial No. 581,239. 11 Claims. (Cl. 22—189.)

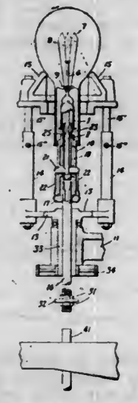
11. A metal mold for the production of ferrous castings, said mold being lined with a smooth adherent coating of fire clay, and a binder of soluble silicate.

1,453,594. SEALING-IN MACHINE. LORIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Apr. 24, 1919, Serial No. 292,464. Renewed July 19, 1921. Serial No. 485,846. 16 Claims. (Cl. 49—2.)



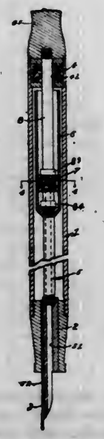
6. In an apparatus for sealing into a bulb a mount having an exhaust tube extending longitudinally therefrom, a frame, a head having a hollow extension rotatably supported in said frame and comprising means for supporting the bulb with its neck projecting downwardly and means for supporting the mount in a substantially vertical position within said bulb comprising a support tube closed at the bottom and disposed to receive the end portion of said exhaust tube, said support tube being provided with air outlet openings and being in substantial alignment with said hollow extension, means extending through said hollow extension for supplying air to said support tube and baffling means for permitting the flow of air into said support tube to be discharged through said outlet openings and for preventing said air from entering said exhaust tube.

1,453,595. MANUFACTURE OF INCANDESCENT ELECTRIC LAMPS AND SIMILAR ARTICLES. LORIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Aug. 3, 1920. Serial No. 400,937. 7 Claims. (Cl. 176—7.)



1. The method of manufacturing an incandescent electric lamp or other electrical device comprising a bulb and a filament or other conductor accurately positioned therein which consists in assembling a bulb and a mount carrying said filament or other conductor and having an exhaust tube extending therefrom and definitely disposed relatively to said filament or other conductor, definitely positioning said bulb, positioning said mount in one direction by means engaging the sides of said exhaust tube and in another direction by means otherwise engaging said mount and then fusing together portions of said bulb and said mount to form a seal.

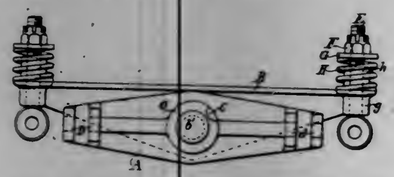
1,453,596. FOUNTAIN PEN. OLIVER MITCHELL, Brookline, Mass. Filed May 27, 1922. Serial No. 564,123. 4 Claims. (Cl. 120—47.)



1. In a fountain pen, a fountain, carrying a feed bar and a pen at its front end; a gland closing the rear end

of the fountain; a pipe, within the fountain and arranged longitudinally thereof, opening without the fountain at the front end; a cylinder closed at the front end, mounted upon the rear end of the pipe, the pipe and interior of the cylinder being in communication, through the closed end of the cylinder, the cylinder having an opening at its rear end; a rod hollow at its front end, passing through the gland and into the rear end of the cylinder, its inner hollow end opening into the cylinder and having a side aperture; a pair of stops mounted upon the rod; a disk, mounted upon the rod between the stops and frictionally engaging the inner walls of the cylinder, all organized as described, to cause the air passage through the rod to be alternately opened and closed by the reciprocation of the rod, as and for the purpose described.

1,453,597. BRAKE EQUALIZER. CHARLES MIKESELL MOHLER, Ypsilanti, Mich. Filed Apr. 5, 1922. Serial No. 549,847. 3 Claims. (Cl. 188—204.)



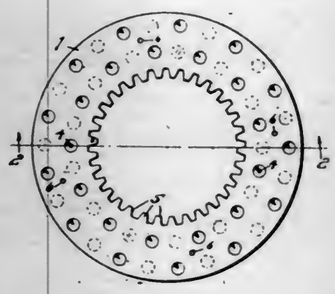
2. In a brake equalizer, the combination with an equalizing bar having at its middle portion an upright stud, the said equalizing bar having at its ends devices for connection with brake side rods, of a base bar having its middle portion pivotally engaging the said stud of the equalizing bar, the said base bar being arranged upon the said equalizing bar whereby one bar is directly over the other, and the said base bar having at its ends devices constructed to engage the levers of an intermediate brake shaft, both of said bars being bowed correspondingly in the middle portions thereof, and the horizontal center lines of the said connecting devices at the ends of the said bars lying in the same horizontal plane.

1,453,598. FOLDING SHELF AND PAPER RACK. LAWRENCE T. OBELE, Philadelphia, Pa. Filed Apr. 12, 1921. Serial No. 460,724. 2 Claims. (Cl. 248—19.)



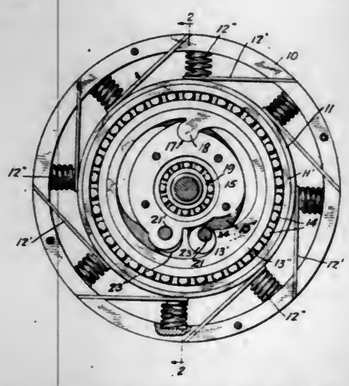
1. In a device of the character stated, a frame consisting of two side bars and upper and lower cross pieces, said side bars each having slots therethrough, each slot comprising two legs at angles to each other with an offset notch communicating therewith at approximately the juncture of the two legs, a shelf, non-collapsible hangers pivoted to the forward end of said shelf and to the bars of the frame above the slots therein, and pivoting trunnions passing through the slots and secured to the rear end of the shelf, said trunnions resting in the lower ends of the slots to hold the shelf in an inclined position, in the offset notches for holding the shelf in a horizontal position and assuming a position at the upper ends of said slots when the shelf is collapsed within the frame.

1,453,599. FRICTION DISK. CLARK W. PARKER, New York, N. Y. Filed Aug. 2, 1920. Serial No. 400,700. 4 Claims. (Cl. 192—113.)



2. A new article of manufacture comprising two parallel circular plates, each having a series of integral struck up projections extending toward and contacting with the other plate.

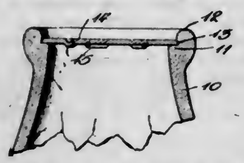
1,453,600. BRAKE. ROBERT W. PERKINS, Norwich, Conn. Filed June 8, 1921. Serial No. 475,972. 14 Claims. (Cl. 188—74.)



1. In a device of the character described, two concentrically mounted members one within the other and one of which is composed of inner and outer rings with a series of springs between the rings and means for displacing one of said members eccentrically of the other to compress the springs at one side.

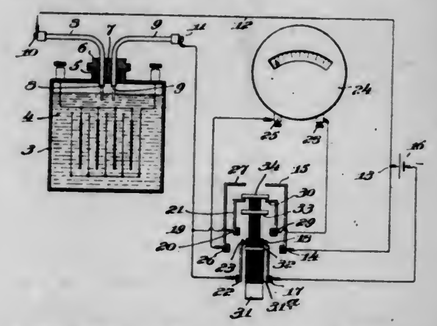
1,453,601. STOPPER. MILTON W. POWELL, Baltimore, Md. Filed Oct. 22, 1921. Serial No. 509,633. 2 Claims. (Cl. 215—51.)

1. A bottle stopper comprising a layer of disk-shaped material having a recess struck therefrom and without rupturing the surface thereof to provide a point of less thickness of material adapted to be readily pierced by



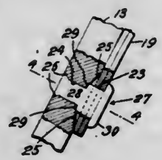
an instrument to facilitate the removal of the disk from the bottle.

1,453,602. LIQUID-LEVEL INDICATOR. DAVID R. PRICE, Newtonville, Mass., assignor of one-half to Leland Powers, Newtonville, Mass. Filed Feb. 13, 1920. Serial No. 358,495. 8 Claims. (Cl. 177—339.)



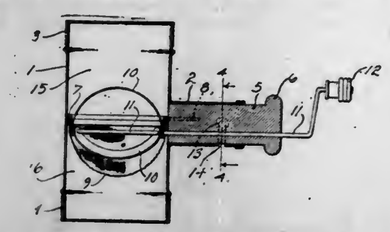
7. The method of determining the level of an electrolyte in a storage battery or the like comprising momentarily applying a potential across a pair of electrodes which project somewhat below the normal level of the electrolyte and substantially testing the terminals for polarization current.

1,453,603. PRUNING SHEARS AND OTHER IMPLEMENT. CHARLES H. REDMAN, East Orange, N. J., assignor to Boker Cutlery & Hardware Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 23, 1920. Serial No. 418,903. 2 Claims. (Cl. 30—11.)



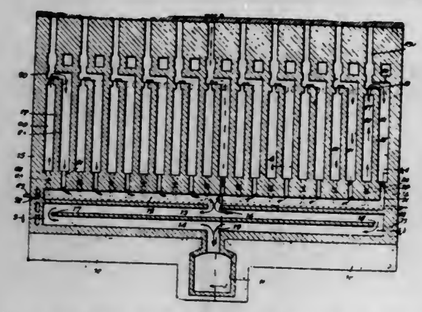
1. Means for securing the opening spring-members to the handle-members of an implement of the character described, comprising, for each handle-member, a hole extending through said member enlarged at opposite sides of its inner end to form a longitudinally elongated polygonal recess, a longitudinally elongated polygonal hole in the spring-member aligned with the enlarged inner end of the hole in the handle-member, and a rivet extending through said holes in said handle and spring-members and having a head engaging the face of the spring, a longitudinally elongated polygonal shank portion engaging the walls of said hole in the spring and those of said recess and a shank-portion fitting the remaining portion of the hole in the handle-member and headed at its outer end.

1,453,604. FLOUR SIFTER. CHARLES J. REPATH, Los Angeles, Calif. Filed May 23, 1922. Serial No. 563,152. 4 Claims. (Cl. 83—60.)



1. In a device of the nature disclosed, a cylindrical body having a laterally extended tubular handle, a reversing member journaled in said handle, an operating shaft journaled in said member and extending exteriorly for manual rotation, an agitator secured upon the shaft within the body, a foraminous sifter member secured to the reversing member and forming a partition across the body on one side of the agitator, the reversing member being operable to alternately position the sifter member on opposite sides of the agitator.

1,453,605. COKE OVEN. WILLIAM E. ROBERTS, New York, N. Y., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 8, 1919. Serial No. 316,009. 2 Claims. (Cl. 202—9.)

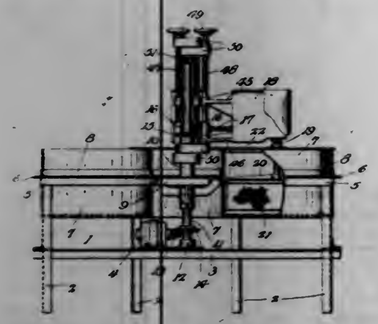


1. A coke oven having a plurality of rows of combustion and waste gas flues which are connected at their upper ends, individual waste gas ducts adapted to carry off the waste gases from each row of combustion flues, said waste gas ducts each comprising a plurality of passages located in the same vertical plane above one another, the lowest passage communicating with an outlet tunnel common to the waste gas ducts for all the rows of combustion flues, the several passages of each waste gas duct being connected by ports so that the waste gases from the combustion flues must flow successively through said passages and to said tunnel, and individual air ducts serving each row of combustion chambers each air duct comprising a plurality of passages located on opposite sides of the waste gas ducts, the said air passages being so connected that the air supplied to each row of combustion flues must flow successively through the passage on both sides of the waste gas ducts so that it is thoroughly preheated.

1,453,606. WASHING MACHINE. ANDREW H. SACKSTEDER, Tiffin, Ohio. Filed Feb. 15, 1922. Serial No. 536,771. 3 Claims. (Cl. 68—18.)

1. In a washing machine, the combination of a tub, a vertically disposed driving shaft arranged adjacent

the tub, means for rotating said shaft, a gear casing disposed over the tub, a spindle mounted in and depending from said gear casing, a clothes container carried by said spindle within the tub, gearing within the gear casing operatively connecting the driving shaft with



said spindle, and means supported on the driving shaft for raising and lowering the gear casing whereby to remove the spindle and the clothes container from the tub or dispose the spindle and clothes container within the tub.

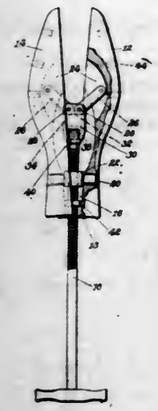
1,453,607. RATCHET SOCKET WRENCH. HENRY LOUIS SAUCIER, Providence, R. I. Filed Feb. 25, 1922. Serial No. 539,265. 2 Claims. (Cl. 81—60.)



1. A ratchet socket wrench, comprising an elongated tubular handle member having a bifurcated end forming oppositely disposed arms, an outer ratchet member pivotally secured to the oppositely disposed arms and having an even inner number of ratchet teeth, an inner rotatable ratchet member having oppositely disposed spring actuated pawls so arranged that when two oppositely disposed pawls are in operative engagement with coinciding ratchet teeth the other oppositely disposed pawls will be only half into engagement with coinciding ratchet teeth and means for locking the outer ratchet member to the handle.

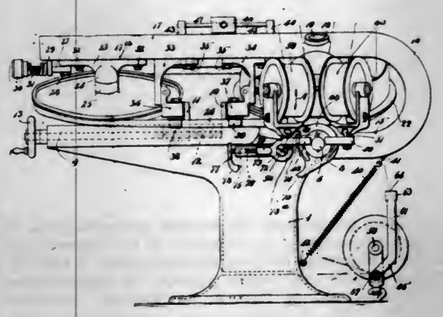
1,453,608. SHOE STRETCHER. WILLIAM A. SPRAGUE, Islington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 30, 1922. Serial No. 532,881. 1 Claim. (Cl. 12—123.5.)

In a shoe stretcher, a split foot member, a toggle link connected to each part thereof and an operating block joining the inner ends of the toggle links, the block being slotted to receive the ends of the links in the same plane, and the ends of the links being circular to bear on each other and on the bottom of the slot in the block, pivot pins pivoting the toggle links to the operating block, said pins being spaced from the bottom of the slot at a distance substantially equal to the radius of the circular link ends, and having their centers substantially at the centers of the circles on which the link ends are formed,



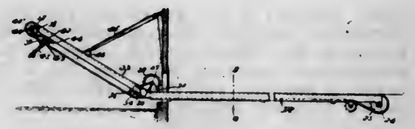
there being a slight looseness of the links on the pins to facilitate rolling of the link ends on each other, and positive interaction between the links and the bottom of the slot, an internally threaded member having trunnioned extensions engaging apertures in the foot member parts, and a threaded rod engaging the threads in said member for operating the block to spread or retract the toggle links.

1,453,609. BAND-CUTTER CUTTING MACHINE. BYRON F. STOWELL, Springfield, Mass., assignor to Metal Saw and Machine Co. Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1921. Serial No. 463,980. 13 Claims. (Cl. 29—68.)



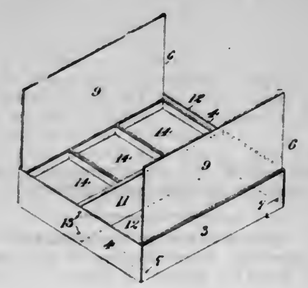
1. A material working machine having thereon means to support the material, a pivotally supported frame, a material working instrumentality carried by said frame and movable in a plane inclined to that of the frame, said instrumentality being movable toward and from the material, and an endless flexible band constructed and arranged to actuate said instrumentality directly in all operative positions thereof.

1,453,610. LITTER CARRIER. JAMES LEE THORNTON, Camp Hill, Pa. Filed Nov. 30, 1920. Serial No. 427,324. 2 Claims. (Cl. 198—204.)



1. In a litter carrier, a trough comprising an upper and lower floor and sides integral with the lower floor, means supported by the sides for holding the upper floor, a conveyer comprising sprocket chains having one course traveling on the upper floor and another course traveling on the lower floor in opposite directions, conveying elements each comprising a plate having integral apertured ears and blades integral therewith and at right angles to the plate, means for pivotally connecting the said carrying elements to the sprocket chains, and means for driving the sprocket chains.

1,453,611. FOLDABLE SHIPPING BOX. GEORGE X. WENDLING, San Francisco, Calif. Filed May 27, 1922. Serial No. 564,071. 10 Claims. (Cl. 217—2.)



1. A container including connected side and end walls adapted for positioning to form a substantially rectangular frame, top and bottom wall forming flaps hinged at one edge with their free edges free to fold toward each other into meeting relation, a part extending across the interior of the frame and secured at its ends to opposing wall members, and means for securing the free edges of said top and bottom wall forming members to opposite edges of said part.

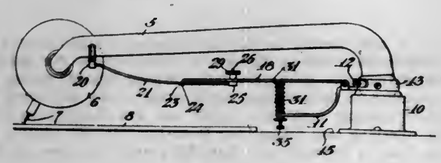
1,453,612. SELECTIVE RECEIVER. ROBERT L. WILLIAMS, Newton, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Nov. 8, 1917. Serial No. 200,888. 4 Claims. (Cl. 177—386.)

4. A device for receiving submarine signals comprising a water-tight casing, means for anchoring said casing below the surface of the water, a buoy for sustaining said casing above its anchoring means, a series of reeds of different lengths, forming electric terminals, within said casing, said reeds being tipped with carbon, a plate of insulating material mounted adjacent said reeds, within said casing, a series of contacts, also tipped with carbon, mounted on said insulating plate and each so located as to be engaged by a reed when such reed is in vibration, and an indicator electrically connected with all of said reeds and said contacts; whereby vibration set up in any



one of said reeds will close the circuit at a contact corresponding to a frequency to which its reed is responsive, and such result be denoted by said indicator.

1,453,613. TONE-ARM SUPPORT. LORENZ R. WOLFF, Los Angeles, Calif. Filed Sept. 29, 1921. Serial No. 504,076. 6 Claims. (Cl. 274—23.)

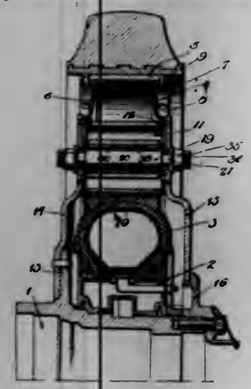


1. In combination, a tone arm post, a revolvable collar on said post, a tone arm pivotally mounted in said collar, a bracket fixed to said collar, an arm pivotally mounted on said bracket, a pair of wire springs slidably extending through a portion of said arm, means for fixing said springs to said arm, a yoke fixed to the outer end of said springs arranged to receive and support the outer end of said tone arm, a coiled spring interposed between said arm and said bracket and means for varying the tension on said coiled spring.

1,453,614. CUSHIONED VEHICLE WHEEL. RUDOLPH J. BALAZS, and HERBERT S. AUTREY, Cleveland, Ohio, assignors to Houston Pneumatic Puncture Proof Wheel Company, Houston, Tex., a Corporation of Texas. Filed Oct. 14, 1920. Serial No. 417,006. 6 Claims. (Cl. 152—42.)

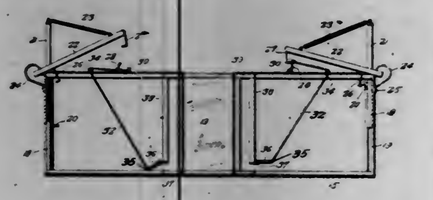
1. In a vehicle wheel, a hub, face plates carried by the hub, a floating rim cushioned with relation to the hub and movable between the face plates, buffer members carried by the said rim, the face plates being formed with openings, bushings having circumferentially roughened portions fitted in the openings and held against rotation

by the coaction of their roughened portions with the walls of the openings, spindles seated at their ends in the bush-



ings, and buffers mounted upon the spindles and coacting with the buffer members of the rim.

1,453,615. ANIMAL TRAP. JULIUS CLEBERT BAUMAN, Miles, Tex. Filed Mar. 19, 1921. Serial No. 453,766. 3 Claims. (Cl. 43—61.)



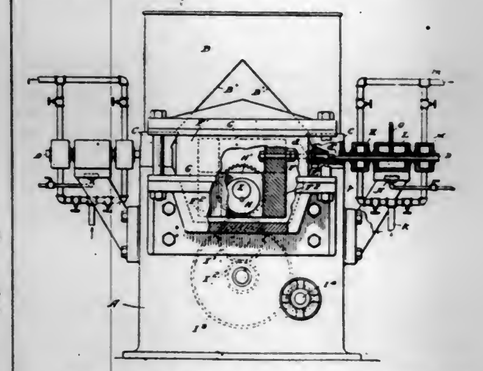
1. A trap having an inclosed baiting chamber and a compartment leading thereto, a slidable door for said compartment, a spring controlled trigger bar for retaining said door in its raised, set position, a trip rod operatively engaged with said trigger bar and flexible means for releasing said trigger bar from the trip rod whereby the door is released and falls by gravity to close said compartment.

1,453,616. ENVELOP. STELLA BENENATO, Phoenix, Ariz. Filed Nov. 15, 1921. Serial No. 515,360. 2 Claims. (Cl. 229—69.)



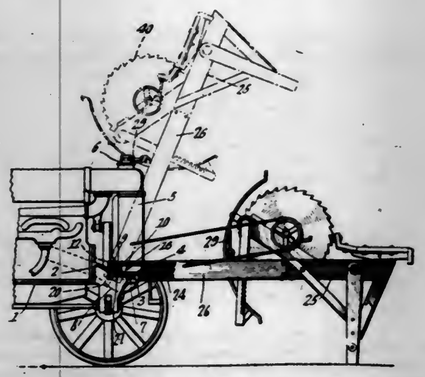
1. The combination with a series of mailable articles each including a substantially flat and rectangular body portion having an address receiving surface of means for temporarily securing the articles together so that the body portions thereof overlap each other and leave the lower portions of the address receiving surfaces exposed.

1,453,617. PROCESS OF AND APPARATUS FOR MANUFACTURING ARTICLES OF COMMINUTED CORK. WILLIAM G. BOND, Wilmington, Del., assignor to Bond Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 14, 1921. Serial No. 444,927. 12 Claims. (Cl. 18—48.)



1. The process of forming articles of comminuted cork, the particles of which are united by a binder which becomes effective under the influence of heat and pressure to unite the cork particles and without destroying the resiliency of the cork, which process consists in forcing loose uncompressed comminuted cork and a small percentage of binder into and through a confining tube whereby it is confined and compressed within the tube during its passage therethrough, and in forming heating and cooling zones in said tube through which the compressed and confined cork passed successively while subjected to confining and compressing pressure.

1,453,618. MOTOR-VEHICLE ATTACHMENT. ALLEY CLAUD BOVENDER, Northwilkesboro, N. C. Filed Nov. 8, 1922. Serial No. 599,736. 6 Claims. (Cl. 180—53.)



6. The combination with the radiator base of a motor propelled vehicle, and members extended rearwardly from the base and defining an angle with the base, of a support extended across the vehicle and lodged in said angle, means for holding the support in place in said angle, a

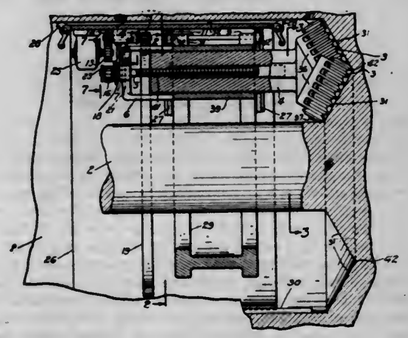
frame located in front of the vehicle of which the base constitutes a part, and means for mounting the frame on the support, for vertical swinging movement.

1,453,619. CAN-HEADING MACHINE. AMOS CALLESON, Brooklyn, N. Y. Filed Apr. 21, 1921. Serial No. 463,337. 11 Claims. (Cl. 113—24.)



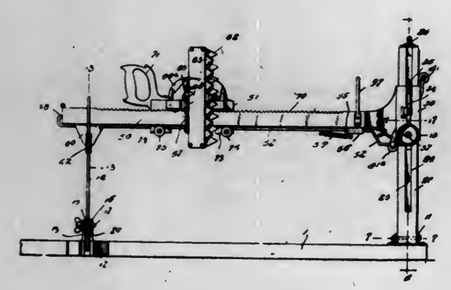
1. In a machine for shaping circumferentially non-circular articles of sheet material, the combination, with work-holding means and mechanism to operate on the work including a carrier member, a guiding member shiftable substantially rectilineally in said member and substantially radially with respect to an axis extending through the work, a work-shaping member shiftable rectilineally in the guiding member and also substantially radially with respect to said axis, and lever-including means for transmitting movement to the shaping member, of a plunger for actuating the lever-including means movable longitudinally of said axis, means for effecting rotation around said axis as between the work-holding means and the plunger on the one hand and said mechanism on the other, and shifting means for the guiding member preserving the same in constant relation to the work during such rotation.

1,453,620. STONE-DRILLING MACHINE. ANTHONY E. CARLSON, Los Angeles, Calif. Filed Mar. 30, 1922. Serial No. 548,030. 3 Claims. (Cl. 262—7.)



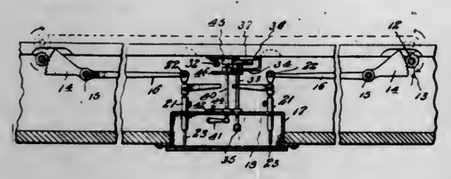
1. In an apparatus for cutting rock, the combination of a supporting frame, adapted to be secured over the surface of the said rock, a revolving frame operatively positioned in the said supporting frame, a tool post operatively positioned in the said revolving frame, a power transmission means, adapted to guide and feed the said tool post, a plurality of rotary cutters in the said tool post, adapted to break away and remove the said rock, as set forth.

1,453,621. HEDGE CLIPPER OR TRIMMER. EVERETTE C. CONRADE, Lewisville, N. C. Filed Feb. 14, 1922. Serial No. 536,426. 11 Claims. (Cl. 56—233.)



5. In a hedge clipper, the combination of a column, gravitational means associated therewith, a support carried by and extending from said means, means to detachably hold said gravitational means against downward movement, a carriage on the support and carrying cutting mechanism, means to actuate said mechanism, and means operable by the carriage to release the gravitational means, said detachably holding means constructed and arranged to catch and hold the gravitational means following downward movement thereof, and the carriage-operable means including a longitudinal rod below the carriage with an apertured end and a head thereon for the engagement of the carriage, and a spring to move said rod in one direction.

1,453,622. SHUTTER OPERATING AND SECURING MECHANISM. EVERETTE C. CONRADE, Lewisville, N. C. Filed Apr. 14, 1922. Serial No. 552,653. 8 Claims. (Cl. 268—13.)

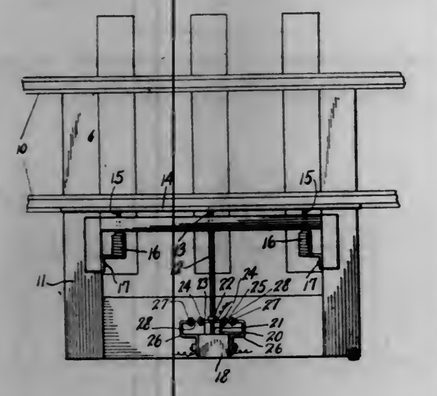


1. The combination of a window casing, shutters hinged thereto, pinions carried by the pintles of the hinges and fixed to the shutters, upright shafts having upper and lower gears, the upper gears meshed with said pinions, and levers fulcrumed in the base portion of the window casing and having gears on their outer arms meshed with the lower gears of the upright shafts.

1,453,623. SIGNAL. FITZHUGH B. GIAVIN and HAYS C. GEE, Georgetown, Tex. Filed May 10, 1922. Serial No. 559,944. 3 Claims. (Cl. 246—246.)

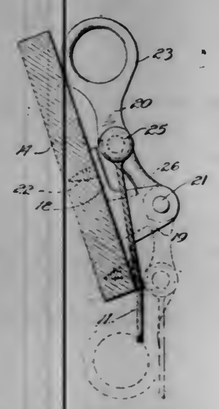
1. In a signal actuating mechanism, a base adapted to be secured adjacent a track, a rock shaft mounted for pivotal movement in the base, a substantially L-shaped crank arm located at one end of the shaft, a ramp located

adjacent one rail of the track and pivotally secured to the crank arm at a point substantially central between the ends of the ramp, crank arms having one of their ends



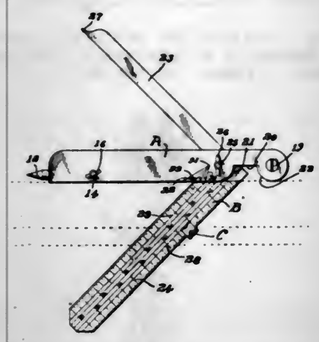
pivotally secured to the ends of the ramp and having bearings in the base, torsion springs connected to the opposite ends of the last mentioned crank arms and a circuit closer operated by the rock shaft.

1,453,624. CONTROLLING DEVICE FOR MUFFLER CUT-OUTS. JOSEPH HADKA, Oak Park, Ill. Filed Nov. 5, 1920. Serial No. 421,930. 3 Claims. (Cl. 74—39.)



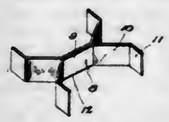
1. A controlling device of the character described comprising a lever, a supporting bracket for the lever adapted to be rigidly secured in position in a motor vehicle within convenient reach of the operator, said bracket having an upstanding lug to which the lever is pivoted, a stud projecting laterally from said lever intermediate its ends and adapted to have a cable secured thereto with the cable leading to a part to be actuated, the stud being swingable in the operation of the lever from a suspended position below the pivotal axis of the lever to a raised position over and a short distance beyond dead center, the cable being free to swing in the movements of the lever unrestricted by the bracket.

1,453,625. COMBINED COMPASSES, SQUARE, ETC. ROBERT H. JOHNSON, Los Angeles, Calif. Filed Nov. 24, 1920. Serial No. 426,154. 5 Claims. (Cl. 33—93.)



1. A tool comprising a butt, a blade pivoted to the butt, said butt having a notch in one edge thereof, curved parts at each end of the notch arranged to lie at opposite sides of one edge of the blade when said blade is disposed at right angles to the butt.

1,453,626. PARTITION FOR VANITY CASES. WILLIAM G. KENDALL, Newark, N. J. Filed Oct. 14, 1920. Serial No. 416,847. 4 Claims. (Cl. 132—82.)



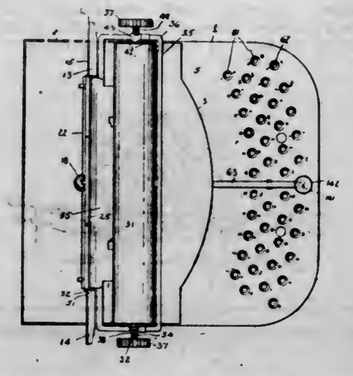
4. The combination with a vanity case having front and rear walls and connecting end walls, and a partition disposed within the case and comprising side members having intermediate portions marginally connected and having terminal portions bearing frictionally against the inner faces of the front and back walls of the case and having their extremities located substantially at the point of juncture of the end walls of the case with the said front and back walls.

1,453,627. AIR FILTER FOR AUTOMOBILES. RALPH A. J. KING, Cherokee, Okla. Filed Apr. 3, 1922. Serial No. 549,245. 2 Claims. (Cl. 183—45.)



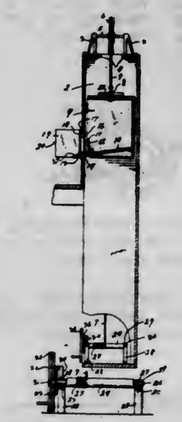
1. In an air filter for automobiles, a substantially rectangular casing, a partition extending longitudinally of the casing from one of its end walls and forming with the outer wall of the casing a passage for air, the said casing being apertured to admit air to the passage, a filtering agent in the said casing outside of the passage, means for retaining the filtering agent against access to the passage, a pipe communicating with the casing at one end and adapted to lead to a carburetor, a pipe communicating with the casing and adapted to extend into the breather tube of a motor, a cover for the said casing, and a flange on the said casing adapted to be engaged by manifold clamps of a motor for retaining the casing in operative relation to the parts of the motor.

1,453,628. TYPEWRITING MACHINE. CARL W. KLAUMINZER, Lakewood, Ohio. Filed Nov. 16, 1922. Serial No. 601,396. 25 Claims. (Cl. 197—57.)



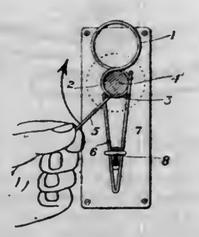
1. In a typewriting machine, the combination of a supporting casing, an intermittently shiftable carriage mounted upon said casing, the top plate of said casing being provided with a printing aperture, a flexible type diaphragm shiftable beneath said aperture, a hammer releasably positioned beneath said diaphragm, and means for causing a trigger action of said hammer to produce a sharp impact upon said type diaphragm.

1,453,629. COAL OR WOOD CARRIER. GRACE M. LEWIS, Keene, N. H. Filed Jan. 9, 1922. Serial No. 528,003. 2 Claims. (Cl. 214—119.)



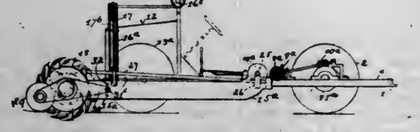
1. In an apparatus for the purpose indicated, a passage way connecting the cellar and the first floor, the front wall of the passage way adjacent the first floor having a door controlled opening, a carrier operable vertically in said passage way and provided with an inclined bottom, said carrier having a discharge opening registrable with the opening of the passage way adjacent the first floor, and a door chute adapted to be lowered to a position in alignment with the inclined bottom and extended through the opening of the passage adjacent the first floor, whereby the contents of the carrier may discharge therefrom, said door chute having side flanges, to keep the contents from discharging to one side, said flanges having slots near their upper portions, and means on the sides of the discharge opening of the carrier to engage said slots to retain the door closure closed.

1,453,630. KEY-LOCKING DEVICE. HENRY E. LORENTS, Washington, D. C. Filed Dec. 8, 1921. Serial No. 520,924. 6 Claims. (Cl. 70—65.)



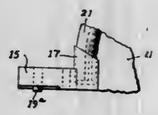
3. A key retaining device, comprising a resilient open ring portion and a pair of diverging legs extending from said open ring, between which the shank of a door knob is wedged for opening said ring during the application of the device, one of said legs being longer than the other and extending downwardly in a position to be inserted into the handle of the key.

1,453,631. AGRICULTURAL MACHINE. WILLIAM MCKENNITT, Duluth, Minn. Filed Feb. 7, 1921. Serial No. 443,202. 1 Claim. (Cl. 97—40.)



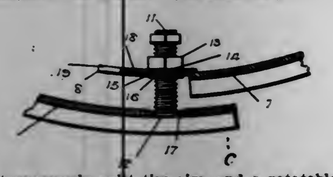
The combination with a vehicle of a yoke pivotally supported near one end upon said vehicle and including a transversely directed rotatable shaft near the forward end of said vehicle, said shaft being supported and adapted to be rotated by internal gears journalled in the side arms of said yoke, means for driving said gears, means for supporting said yoke intermediate of its pivotal point and said shaft, ground disturbing implements mounted on said shaft and adapted to rotate therewith, and means for driving said vehicle.

1,453,632. CONSTRUCTION OF EYEGLASSES. GEORGE W. MCKINSTRY and WILBUR H. SIDDALL, Attleboro, Mass., assignors to Bay State Optical Company, Attleboro, Mass., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,467. 14 Claims. (Cl. 88—47.)



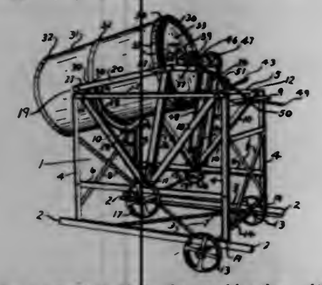
1. In eyeglass construction, in combination, an end piece, a non-metallic rim member terminating adjacent thereto, means mounting said rim member and permitting movement of its end relative to said end piece, and means covering the end joint between said rim member and said end piece.

1,453,633. DEMOUNTABLE TIRE RIM. CLEMENT S. MARTIN, Rockville, Md. Filed Apr. 10, 1922. Serial No. 551,085. 16 Claims. (Cl. 301—33.)



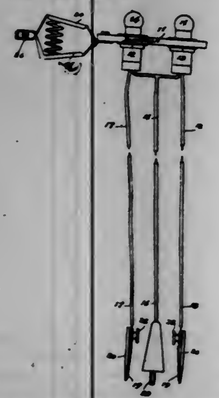
1. A transversely split tire rim, and a rotatable radial member having a screw connection with one end portion of the rim, the other end of the rim having a portion engaging said member to be moved thereby.

1,453,634. CONCRETE MIXER. DAVID BUFFINGTON MARTIN and JOHN WESTERBY, Hagersville, Ontario, Canada. Filed Dec. 15, 1921. Serial No. 522,572. 2 Claims. (Cl. 83—73.)



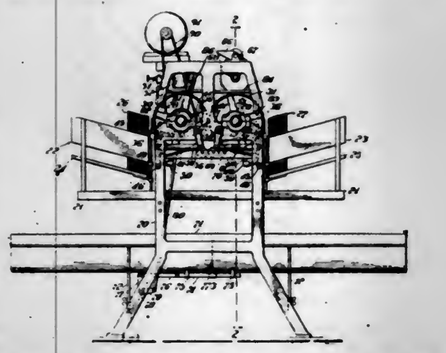
1. In a concrete mixer the combination with the rigid main frame thereof, of a V-shaped rocker guide frame within the main frame, a rocking frame comprising a depending V-shaped portion the apex angle of which is less than that of the aforesaid guide frame, the rocker frame freely mounted within the main frame so that the external apex of the depending V-shaped portion thereof engages the internal apex of the guide frame, the rocking frame being free to be oscillated about the engaging apices, and a mixing drum rotatably carried by the rocking frame.

1,453,635. BREAKER-ARM SYNCHRONIZER. MAYNARD D. MORRIS, Winnipeg, Manitoba, Canada, assignor of one-half to Jesse J. Howe, Dauphin, Manitoba, Canada. Filed Mar. 19, 1921. Serial No. 452,177. 2 Claims. (Cl. 177—339.)



1. A breaker arm synchronizer, comprising a pair of electric lamps, a pair of tongue like contacts mounted on insulating strips, a jaw contact, and electric wire connections connecting the lamps in parallel between the tongue contacts and the jaw contacts.

1,453,636. TAPPING AND WRAPPING MACHINE. PETER PACHTER, Chicago, Ill. Filed Jan. 6, 1919. Serial No. 269,832. 14 Claims. (Cl. 270—58.)



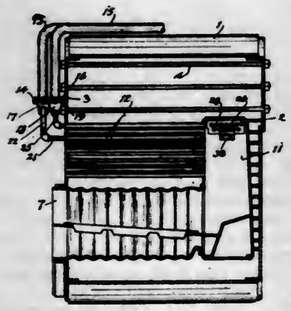
1. In a machine of the class described, a plurality of sheet-gripping members fixed to adjacently positioned cylinders, geared to rotate in opposite directions and place a pair of sheets into juxtaposition between the two cylinders, means whereby the sheets are automatically brought into the path of said gripping members and means whereby adhesive is applied to a portion of the sheets.

1,453,637. PHONOGRAPH STYLUS. THEOPHILUS PARSONS, Camp Dodge, Iowa, assignor to Charles B. Brophy, Rye, N. Y. Filed Apr. 3, 1920. Serial No. 370,942. 3 Claims. (Cl. 274—38.)



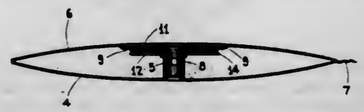
1. In a phonograph, a record-engaging element comprising a freely rotatable disc concave on one face and having a relatively thin sharp edge.

1,453,638. BOILER SUPERHEATER. CYRIL SAMUEL DRAYTON PERRY, Port Arthur, Ontario, Canada. Filed Mar. 29, 1921. Serial No. 456,615. 1 Claim. (Cl. 122—461.)



The combination with a boiler having a plurality of furnaces of a super-heater for each furnace comprising a pair of elongated hollow casings supported in the upper part and on opposite sides of the furnace fire box, one of said headers constituting the delivery header and being positioned somewhat higher than the other or receiving header, a plurality of rows of S-shaped super-heating coils connecting the headers of each pair, the coils of one row being located between the coils of the adjoining row, a saturated steam supply pipe, a plurality of distributing conduits extending between said supply pipe and the receiving headers of the super-heaters, a superheated steam conduit, and a plurality of pipes extending between said last mentioned conduit and the delivery headers of the super-heaters.

1,453,639. TATTING SHUTTLE. HAMITAGE L. RICHARDSON, Sebringville, Ontario, Canada. Filed May 16, 1922. Serial No. 561,498. 2 Claims. (Cl. 96—22.)



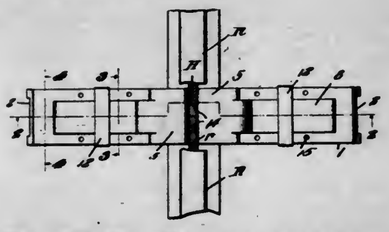
1. A tatting shuttle comprising a shuttle side member, a bobbin carried by said shuttle side member, a removable side member, attaching means for said removable side member and a thread protecting flange carried by said bobbin adjacent the shuttle side.

1,453,640. ELECTRIC HEATER FOR WASHING MACHINES. CHARLES PATRICK RUSSELL, Brandon, Manitoba, Canada. Filed Jan. 7, 1922. Serial No. 527,766. 6 Claims. (Cl. 219—38.)



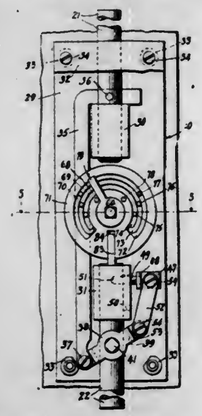
1. The combination with a washing machine tub, of an electric heater comprising a box like casing contained within the tub and fastened to the bottom of the same and having an outlet passing from the bottom of the casing downwardly through the bottom of the tub, a suitably insulated electric heating coil contained within the casing and suitably insulated contact tips connected electrically to the ends of the coil, said contact tips being directly opposite the outlet aforesaid.

1,453,641. RAIL FASTENER. LOUIS MARTAIN SARTAIN, Pelham, Tenn. Filed Dec. 21, 1922. Serial No. 608,268. 4 Claims. (Cl. 238—209.)



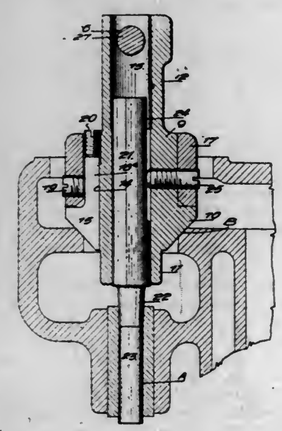
2. The combination with a base plate having communicating recesses in the upper and lower faces thereof, of opposed rail clamping jaws having recesses for the reception of the base flanges of rails, tongues extending from the jaws, projections thereon adapted to be seated in the upper recesses, and ears on the projections insertable into the upper and lower recesses and adapted to be seated in the lower recesses.

1,453,642. COMBINATION LOCK. WILLIAM SCHMITZ, New York, N. Y. Filed Feb. 7, 1922. Serial No. 534,675. 3 Claims. (Cl. 70—53.)



2. A lock comprising manually operated locking bolts slidable in opposite directions, a frame, a sleeve extending into said frame, a plurality of notched discs mounted on said sleeve, a spindle rotatable in the sleeve, a graduated dial attached to the outer end of the spindle, tumbler pins in said discs, means for turning said discs in opposite directions until the notches therein are alined, a flattened extension on the inner end of one of said bolts adapted to enter the notches of said discs when alined, a yoke operatively engaging both of said bolts, and means on said yoke for actuating said bolts simultaneously.

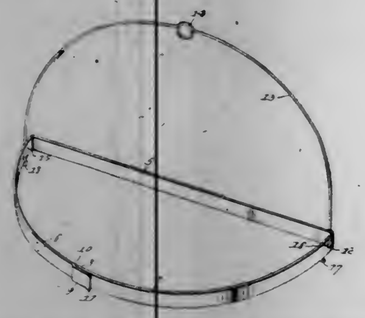
1,453,643. REAMING TOOL FOR TRUING VALVE SEATS. HARRY T. SHEARER, Waynesboro, Pa. Filed Jan. 10, 1922. Serial No. 528,152. 7 Claims. (Cl. 90—12.5.)



1. A tool of the character set forth, comprising a cutter head having a tapered bearing portion and a slot

opening therethrough, a cutting blade adjustably located in the slot having a cutting edge corresponding substantially to the face of the bearing portion, an adjusting screw in the head bearing against the end of the blade opposite to the cutting edge, and a set screw bearing laterally against the blade for clamping it against movement when adjusted.

1,453,644. NECKTIE HOLDER. WILLIAM R. TINGLE, Charlotte, N. C. Filed Mar. 30, 1922. Serial No. 548,119. 2 Claims. (Cl. 211—17.)



1. In a necktie holder, a member having extensions projecting outwardly therefrom, the ends of the said extensions overlapping each other, a bail extending through the extensions and pivoted thereon, the said bail having angularly disposed portions underlying the said extensions for limiting the movement of the bail and member with relation to each other in one direction.

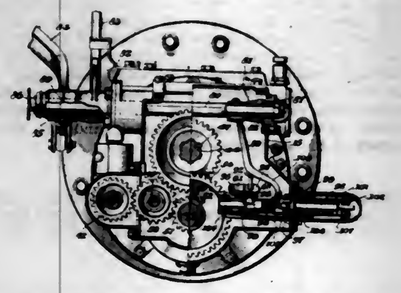
1,453,645. SLAT DRIER FOR DRYING PAPER. JOHN WARREN VEDDER, Worcester, Mass. Filed June 23, 1921. Serial No. 479,571. 4 Claims. (Cl. 34—48.)



3. In a rotatable slat drier or drum for drying paper, the combination of a tubular shaft or axle adapted to rotate in suitable supporting bearings and to serve as a conduit for delivery of drying medium within the drum through perforations in the wall of the shaft, two drum heads rigidly secured to said shaft, peripheral slats extending between and rigidly secured to said drum heads, means for communicating driving power to said tubular shaft, connections to one end of said tubular shaft for supplying drying medium from a suitable source, and fan blades attached to and rotating with said shaft and adapted to assist circulation within the drum.

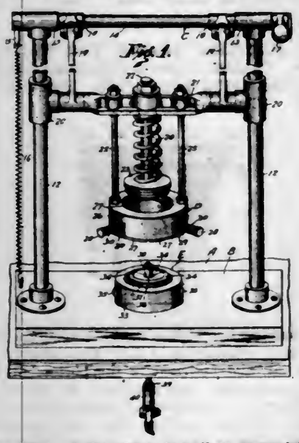
1,453,646. MOTOR VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 31, 1916, Serial No. 75,414. Divided and this application filed Nov. 27, 1918. Serial No. 264,436. 9 Claims. (Cl. 74—39.)

1. In a mechanism of the class described, the combination of a plurality of rectilinearly shiftable elements arranged side by side and having transverse grooves therein, a member pivotally mounted for rocking movement having two arms and adapted to be moved axially of its pivot one arm traveling through said grooves to be operatively connected with said elements in succession, a locking bolt movable transversely of the direction of movement of said elements and cooperating with the lat-



ter to lock all of the elements except the one which is operatively connected with said member, the second arm engaging said bolt whereby the bolt is shifted when the member is moved axially of its pivot and spring means associated with said bolt to assist shifting said elements.

1,453,647. DISTRIBUTING-GATE MACHINE. WILLIAM A. WATERMAN, Exeter, Calif. Filed Nov. 9, 1921. Serial No. 513,976. 8 Claims. (Cl. 113—48.)



1. A machine of the class described comprising a base having an expansible plug provided with prongs to upset a flange and tube from the interior, means to expand said plug, an expansible ring for engaging the exterior of a tube, and means to move said ring downwardly over said plug into engagement with said base to contract said ring.

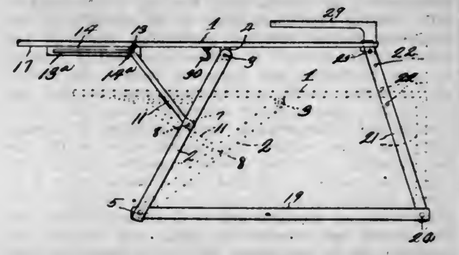
1,453,648. TIE FASTENER. JOSEPH GEORGE WHITEACRE, Vancouver, British Columbia, Canada. Filed Sept. 17, 1921. Serial No. 501,426. 2 Claims. (Cl. 24—59.)



1. A tie fastener comprising an anchor member having an attaching loop and fitted with a pair of forwardly

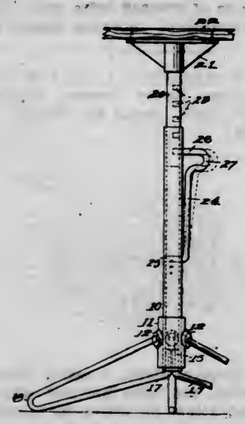
extending legs and having the forward ends of the legs connected by a cross member, a tie carrying member pivotally carried by the cross member and a spring associated with the tie carrying member.

1,453,649. IRONING TABLE. EDWIN H. WILKINSON, Omaha, Nebr. Filed Jan. 12, 1922. Serial No. 528,609. 1 Claim. (Cl. 68—10.)



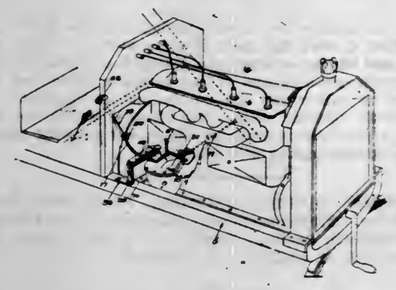
An ironing table comprising a top, spaced legs pivoted to the under side of said top at points spaced from its ends, a brace pivotally and slidably connected to the under side of said top, and at a point spaced from its under face, said brace extending downwardly and having its lower end pivotally connected to the pivoted legs, connecting bars pivoted to the lower end of said legs and terminating beyond the rear end of the table top, upwardly and inwardly extending legs pivoted to the rear ends of said connecting bars, transversely disposed rods carried by said last named legs and adapted to be received by a transversely disposed groove in the under face of the rear end of the table top, means for maintaining said rods in said grooves, means for holding said top in various positions, said means comprising a gravity actuated detent cooperating with notches in the under face of the top, said gravity actuated detent being carried by a clamping bolt, and held against movement thereby when tightened.

1,453,650. BASE FOR TOOLS AND OTHER FURNITURE. HOWARD C. WILLSON, Worcester, Mass. Filed Mar. 27, 1922. Serial No. 547,145. 2 Claims. (Cl. 155—138.)



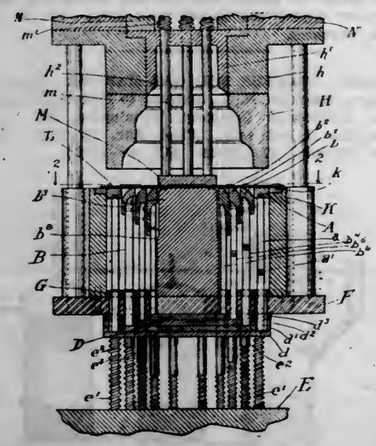
1. In an article of furniture, the combination of a hollow vertical standard, a casting secured to the bottom thereof having a plurality of radiating arms each provided with an inclined passage extending in through the arm to the vertical external surface of the standard, and the same number of legs each consisting of a wire bent near the center and having two separate arms in a vertical plane, one loosely fitting in one of said passages and having a vertical end surface provided with an angular upper end engaging said vertical surface of the standard and the other secured to the bottom of the standard and extending up into it and into the bottom of said casting, whereby when pressure is applied to the standard the angular top of the loose arm will project inwardly and grip the side of the standard.

1,453,651. FOOT ACCELERATOR. ALBERT MERFEY ALEXANDER, Valley Mills, Tex. Filed Dec. 29, 1921. Serial No. 525,644. 3 Claims. (Cl. 74—8.)



3. A foot accelerator comprising an arm having its intermediate portion offset and its forward portion arranged in L-shaped formation to provide upwardly and forwardly extending branches, the forwardly extending branch being adapted to overhang the throttle arm of the carburetor, said forwardly extending branch being provided with means whereby the same may be pivotally connected to the throttle arm of the carbureter, the rear portion of said arm being curved longitudinally and provided with an apertured ear, and a longitudinally movable pedal slidable through the floor board of the vehicle and having its forward portion connected to the apertured ear.

1,453,652. METHOD AND APPARATUS FOR FORMING SHEET-METAL ARTICLES. JAMES H. AUBLE and JAMES L. AUBLE, Cincinnati, Ohio, assignors to The Auble Die and Stamping Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 27, 1919. Serial No. 307,153. 5 Claims. (Cl. 113—48.)



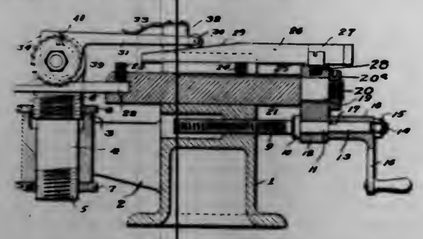
1. An apparatus for molding objects from sheet metal blanks comprising concentric dies, means adapted to mount them fixedly and a means adapted to be actuated by each die for releasing adjacent dies.

1,453,653. PUMP. FRED C. BERG, Coalinga, Calif., assignor to Eli P. Plaugher, Coalinga, Calif. Filed Sept. 11, 1919. Serial No. 323,079. 2 Claims. (Cl. 103—177.)



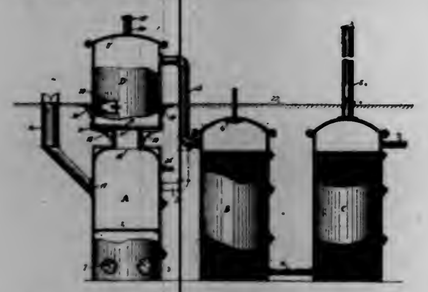
2. In combination, a wall casing, a barrel therein extending a relatively short distance above the wall casing and having its upper end threaded, a nipple mounted upon the threaded end of the barrel, a valve seat situated in said nipple and on the end of the barrel, an upwardly opening check valve situated within the nipple, a pipe leading from the nipple and pumping mechanism communicating with said pipe.

1,453,654. MILLING MACHINE. JOHAN ERIK BERGSTRÖM, Christiania, Norway, assignor to Gustaf Stahle, Stockholm, Sweden. Filed Jan. 24, 1921. Serial No. 439,670. 2 Claims. (Cl. 90—13.1.)



1. In a milling machine of the class described, a support, a sleeve mounted in a bearing of the support and provided with an eccentric bore, a spindle mounted in said bore and provided with driving means and also with a milling cutter, a work holder, a support therefor on which the work holder is mounted for sliding movement, means to actuate the work holder, and means, including an element having limited movement with the work holder, to partly turn the said sleeve and thereby vertically adjust the spindle and cutter as the work holder advances.

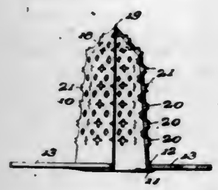
1,453,655. PROCESS FOR GAS MAKING. HAROLD R. BERRY, Brooklyn, N. Y., assignor to Petroleum Research and By-Products Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 22, 1923. Serial No. 626,909. 17 Claims. (Cl. 48—204.)



14. A process for modifying and enriching carbon monoxide containing gas, which consists in converting carbon monoxide into carbon dioxide by any suitable means with hydrogen release and enriching the modified gas.

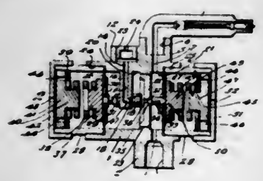
17. A process for producing a non-toxic combustible gas from carbonaceous material and steam, greater in volume and thermal value than that of water gas produced from like quantities, which consists in operating a water gas generator during the gas-making run to low temperature, to substantially that at which reaction fails, causing thereby increase of the quantity of carbonaceous matter entering gas-making reactions and decreasing the amount of carbonaceous matter required for heat production and increasing thereby the production of carbon dioxide and hydrogen quantities and converting the reduced carbon monoxide values into carbon dioxide and hydrogen, the hydrogen being of substantially the same volume and thermal value as the carbon monoxide converted, through reaction within a reagent zone suitably equipped and operated with a reagent material and steam so that the reagent is oxidized releasing hydrogen and is dioxidized forming carbon dioxide and rejuvenating itself, and enriching the resultant gas by contacting with carbonaceous material and removing therefrom by suitable means the carbon dioxide content to selected amount and effecting, to necessary extent, elimination of any toxic quantities and impurities present through the agency of washers, scrubbers and purifiers.

1,453,656. GASEOUS-FUEL MIXER. DOROTHY BONNELL, Winchester, Ky. Filed Aug. 25, 1921. Serial No. 495,192. 5 Claims. (Cl. 48—180.)



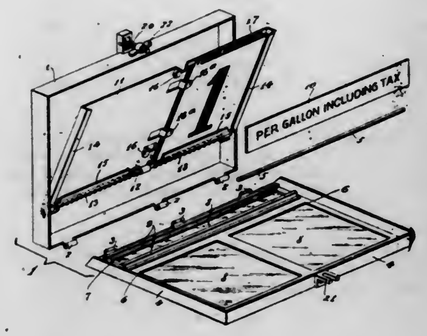
4. A gaseous fuel mixer of the character specified, comprising a tubular body portion having a plurality of encircling rows of punched holes, each of said holes presenting a plurality of projecting jagged edges.

1,453,657. LOW-PRESSURE ALARM FOR PNEUMATIC TIRES. WALTER HENRY BROWN, Pasadena, Calif. Filed Aug. 24, 1922. Serial No. 584,132. 3 Claims. (Cl. 116—34.)



2. In a low pressure alarm, a casing attachable to a source of pressure, and being provided with an outlet, a valve disposed within the casing for controlling communication between the source of pressure and the outlet, a spring reacting against the valve to tend to hold the latter in open position, a diaphragm supported within the casing and connected with the valve to move the latter to closed position when the diaphragm is actuated by definite fluid pressure, a second valve disposed within the casing and controlling communication between the first valve and the source of pressure, a spring reacting against the second valve tending to hold it in closed position, and a second diaphragm supported within the casing and connected with the second valve for moving the latter to open position when the second named diaphragm is actuated by a definite fluid pressure.

1,453,658. PRICE INDICATOR. GEORGE B. CLOUGH, Meriden, Conn. Filed Feb. 23, 1922. Serial No. 538,446. 7 Claims. (Cl. 40—13.)

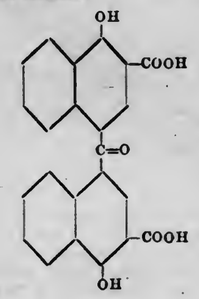


1. An indicator comprising a casing, a perforated cover hinged to said casing, a card holder hinged within said casing, tensioning means for said card holder operating to force said card holder against said casing, and a plurality of digit cards within said holder.

1,453,659. INTERMEDIATE PRODUCT FOR THE MANUFACTURE OF DYESTUFFS AND PROCESS OF MAKING SAME. GUILLAUME DE MONTMOLLIN, JOSEF SPIELER, and GERALD BONHÔTE, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 4, 1922. Serial No. 549,550. 2 Claims. (Cl. 260—64.)

1. The herein described process for the manufacture of the 4 : 4'-dioxydinaphthyl-1 : 1'-ketone-3 : 3'-dicarboxylic and 1-oxynaphthalene-2 :4-diacarboxylic acids, consisting in separating these compounds from the mixture which is produced by acting on 1-naphthalene-2-carboxylic acid with tetrahalogenated methane derivatives in presence of agents capable of neutralising the acids by virtue of the characteristic solubilites of the alkali metal and alkaline earth metal salts of the said compounds.

2. As a new product, the 4 : 4'-dioxydinaphthyl-1 : 1'-ketone-3 :3'-dicarboxylic acid constituting a whitish powder fusing, when quickly heated to near 259° C., dissolving in caustic alkalies with a yellow coloration and corresponding to the formula:



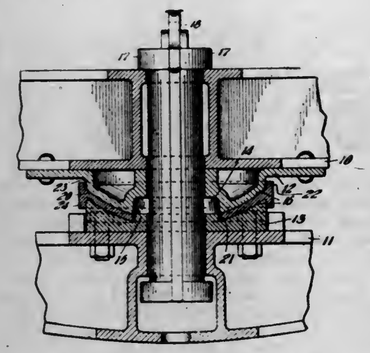
1,453,660. AZO DYESTUFFS AND PROCESS FOR THE MANUFACTURE OF SAME. GUILLAUME DE MONTMOLLIN, GÉRALD BONHÔTE, and JOSEF SPIELER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Feb. 6, 1923. Serial No. 617,385. 17 Claims. (Cl. 260—76.)

12. The herein described new dyestuffs resulting from the action of unsulfonated diazo-compounds on the unsulfonated derivatives of the 4-oxynaphthalene-1-arylketones corresponding with the general formula

$$(R'-N=N-)_nR$$

wherein n signifies a whole number smaller than 3, R an unsulfonated aromatic complex comprising, besides other eventual substituents, a group—O—R (wherein R may represent an alkyl, aryl, and aralkyl radical) in orthoposition to the azo-groups, and R' the radical of an unsulfonated 4-oxynaphthalene-1-arylketone, which dyestuffs constitute orange to dark black blue powders insoluble in water, producing on the fiber to which they are applied orange to violet blue tints.

1,453,661. SHIM FOR CENTER-BEARING PLATES. CHARLES E. DATH, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 16, 1920. Serial No. 359,042. 2 Claims. (Cl. 64—64.)

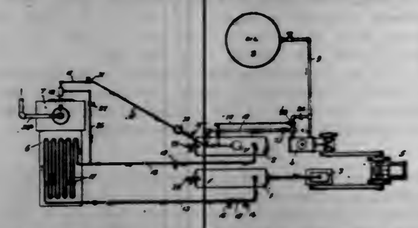


1. A shim adapted to be interposed between the body and truck center bearing plates of a car, wherein the center bearing plates are provided with co-operating male and female formations; said shim having a web of uniform thickness centrally perforated to accommodate the male formation of the center bearing plate therein and provided with upwardly and downwardly extending exterior peripheral annular flanges, the diametrical distance between the interior faces of each of said flanges being substantially the same as the exterior diameter of the bearing face of the corresponding bearing plate, whereby said flanges are adapted to overlie the peripheral outer faces of the body and truck center bearing plates, respectively, and retain the shim in assembled relation to both of said center bearing plates when interposed therebetween.

1,453,662. FIRING BOILERS BY MEANS OF FUEL OIS. WILLIAM P. DUNHAM, Copperas Cove, Tex., assignor to Nebulizer Oil Burning Company, a Corporation of Delaware. Filed July 16, 1920. Serial No. 396,700. 14 Claims. (Cl. 158—36.)

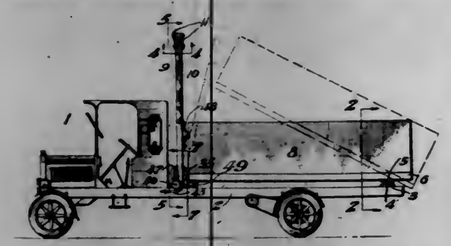
1. In the art of firing boilers, that improvement which consists in maintaining a continuous flow of compressed air, into and through an atomizer and also upon oil in a storage vessel to force the oil to the atomizer in a column at a speed which is not greater than the speed of the atomizing air, said oil column being then, within the nozzle of said atmoizer, retarded by the stream of pres-

sure air there passing, at its higher speed, across the face of the oil column, said air also, within the confines of the



burner, finely dividing the oil and in said condition ejecting the so treated oil particles with the speed of the emerging air.

1,453,663. DUMP-BODY HOIST. WILLIAM B. ENGLER, Youngstown, Ohio. Filed Nov. 27, 1920. Serial No. 426,716. 3 Claims. (Cl. 298—19.)



1. In a dump body hoist, a vehicle frame, a dump body pivotally mounted on said vehicle frame, a mast freely swinging rearwardly and pivotally mounted on the base of said hoist, fixed stops so located as to prevent said mast from swinging forward, arms attached to the forward end of said body, a pivotal pin carried by said arms and located forwardly of a vertical plane through the pivots of said mast, a flexible cable, a series of sheaves and a winding drum connecting said pin with said mast, by the manipulation of which, the front end of said body may be hoisted and whereby when said pin in its upward and rearward travel has crossed approximately the center line of said mast, the direction of pull of said cable maintains said mast in a state of stable equilibrium and causes its rearward movement to conform to that of said body.

1,453,664. LEAF UPSETTING AND SUPPORTING DEVICE. CHARLES R. FARGO, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company, a Corporation of Illinois. Filed Aug. 13, 1917. Serial No. 185,976. 16 Claims. (Cl. 129—18.)



1. The combination of leaf upsetting means for a loose leaf receptacle, comprising an independent device adapted to be placed in the receptacle so as to support the leaves thereon at successively higher elevations.

11. The combination with a loose leaf receptacle having a longitudinal guide at each side thereof, of a follower movable along said guide and comprising a pair of transverse members engaging the guides, one of said transverse members being adjustable to and from the other transverse member to clamp the guides between the transverse members and lock the follower in adjusted positions.

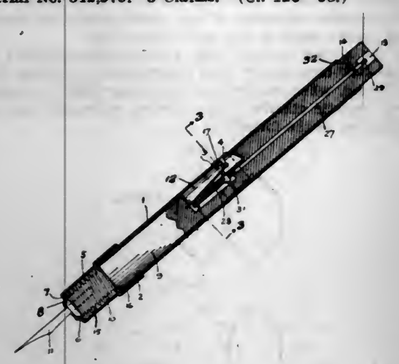
1,453,665. ATTACHMENT TO GAS STOVES. GERALD FOLL, Winnipeg, Manitoba, Canada. Filed Mar. 13, 1922. Serial No. 543,451. 3 Claims. (Cl. 126—39.)

1. An attachment to the oven outlet collar of a gas stove comprising an extending casing fitting the collar, a layer of steel wool suspended within the casing, a layer of asbestos above the wool and a deodorizing material.

1,453,666. DRY DOCK. DOMINICK FRANOVICH, Venice, La. Filed Jan. 13, 1922. Serial No. 529,061. 5 Claims. (Cl. 214—1.)

1. In a dry-dock, the combination of a support, a ship-receiving dock arranged on the support and means for moving the front and rear portions of the dock longitudinally with respect to each other and on the support and other means for rocking a portion of the dock transversely with respect to the support.

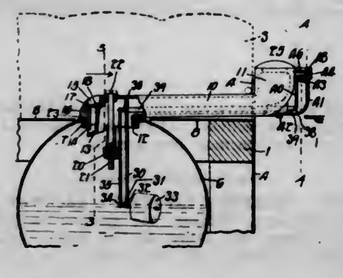
1,453,667. PENHOLDER. JAMES JOHN GILLIS, Vancouver, British Columbia, Canada. Filed Mar. 11, 1922. Serial No. 542,975. 5 Claims. (Cl. 120—98.)



3. A pen holder for the purpose described having a barrel with a spring cover extension, a compression spring

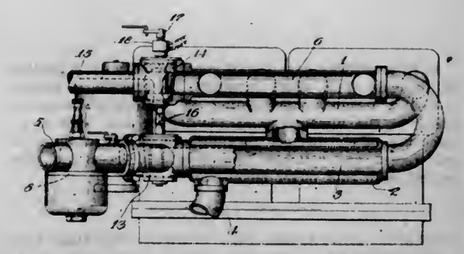
therein, a clip member removably sprung upon the barrel having a tongue projecting through the side wall of the barrel to limit the sliding movement of the pen holding member, said clip member having a pair of spring legs projecting towards the transverse centre of the barrel, which legs terminate in semi-spherical knobs for releasing engagement with an adjustable wedge block mounted upon a spring, a block slidably movable under said spring, having screw rod means of positioning same for the tensioning of said spring, and key means of retaining the screw rod in endwise position and means for rotating same.

1,453,668. FILLER AND GAUGE. GEORGE R. GOIN, and REXFORD E. HITE, Highland Park, Mich.; said Goin assignor to said Hite. Filed Mar. 24, 1919. Serial No. 284,739. 5 Claims. (Cl. 220—85.)



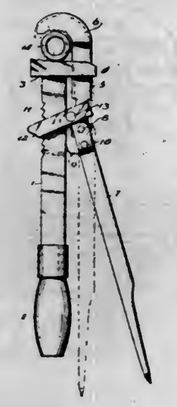
5. A tank filler comprising a substantially horizontal tube extending from a tank beneath the seat of an automobile to a point beyond the seat, said tube having an upward bent at the outer end and a downwardly bent part at the inner end to fit in the filling opening of the tank, said tube having at its inner end a thickened portion, an air vent extending upward through the said thickened portion and a bolt extending downward through the tube, and a yoke within the tank straddling the filling opening and engaged by the bolt to hold the tube in place, substantially as set forth.

1,453,669. ENGINE PREHEATER. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1917, Serial No. 199,012. Renewed Sept. 29, 1922. Serial No. 591,412. 9 Claims. (Cl. 123—122.)



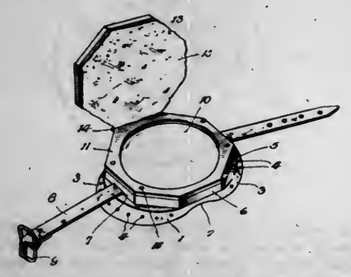
1. The combination in an engine, of means for introducing fuel and air for internal combustion therein including an intake passage, and independent means including a source of fluid pressure for non-explosively burning liquid fuel in said passage.

1,453,670. WRENCH. BENJAMIN J. GREER, Poynor, Tex. Filed Apr. 3, 1922. Serial No. 549,082. 7 Claims. (Cl. 81—89.)



1. A wrench including an arm, a jaw fixed with respect thereto, a second jaw movably mounted with respect to the fixed jaw, a lever pivoted to the movable jaw, an abutment adjustably mounted on the arm, and a pivoted link on the lever for engaging said abutment.

1,453,671. WRIST MIRROR. SHERMAN HARROLD, Hartford City, Ind. Filed Nov. 19, 1921. Serial No. 516,409. 3 Claims. (Cl. 224—28.)

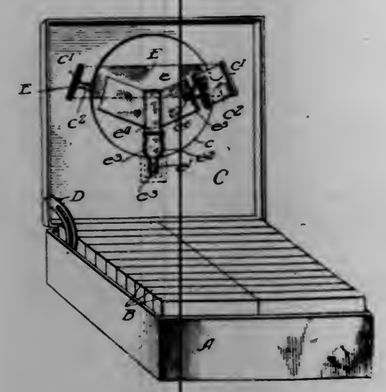


1. An article of the character described comprising a base block, a backing secured upon the outer side of the base block, a mirror resting upon the backing, a rim secured upon the outer surface of the backing and overhanging the edge of the mirror, and a retaining strap passing between the backing and the base block and over the edges of the base lock.

1,453,672. DISPLAY BOX. CLARENCE E. HEATON, Chicago, Ill., assignor to Wilson Brothers, Chicago, Ill., a Corporation. Filed Nov. 7, 1921. Serial No. 513,253. 3 Claims. (Cl. 206—44.)

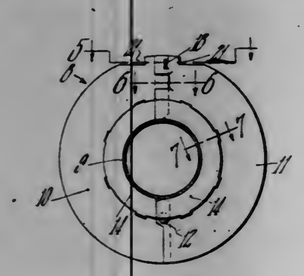
1. Means for displaying garters comprising a flat part having in its upper portion slots placed at a distance apart through which slots the leg band of the garter may pass and having at a distance below said slots a hole to admit the button of the garter tab, and

having also a relatively large opening above said hole and between said slots, through which opening the body



of the garter may be exposed and through which the button loop of the garter may be passed to enable said loop to engage said button.

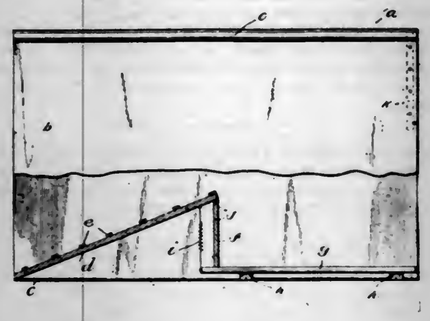
1,453,673. OIL SHIELD FOR BELT PULLEYS. ALBERT H. HEBERT, Holyoke, Mass. Filed Oct. 1, 1921. Serial No. 504,622. 7 Claims. (Cl. 64—22.)



1. A device of the character described comprising an absorbent washer, a disk, a separate retaining ring, the disk being of greater diameter than the washer and the washer being interposed between the disk and the ring and means on the ring for securing the ring and washer to the disk, the device as a whole being adapted to be fixedly secured upon a shaft with the inner peripheral face of the washer in contact with the shaft, and with the inner peripheral faces of the ring and disk spaced from the shaft.

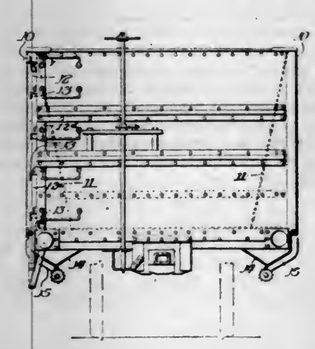
1,453,674. POULTRY-DIPPING MACHINE. CLARENCE ELLIOTT HEDRICK, Newton, Kans. Filed Dec. 15, 1921. Serial No. 522,687. 2 Claims. (Cl. 119—158.)

1. A poultry dipping device comprising in combination with a dipping tank, a box like structure consisting of side and top walls, and having one end entirely open and the opposite end closed at its upper portion by a transverse wall, the front portion having a stationary inclined floor, the rear portion having a sectional floor consisting of sections hingedly connected at their outer edges with said side walls and their opposing edges meeting in the center, a transverse partition separating the inclined floor portion from the sectional floor portion, said sections extending beneath and beyond said parti-



tion, and springs connected at one end to the said ends of said doors or sections, and at their other ends to the underside of said inclined floor section.

1,453,675. MAXIMUM-CAPACITY RAILWAY CAR. DAVID HINDAHL, Chicago, Ill., assignor to Harry S. Hart, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,547. 4 Claims. (Cl. 105—406.)

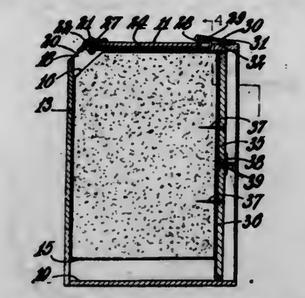


1. In a railway car, a wall constructed with a portion of its side wall offset inwardly to provide a ladder-receiving recess corresponding in dimensions substantially to the dimensions of the ladder and with a reinforcing offset member forming one of the confines of said recess, and a ladder located in said recess and supported upon said offset member.

1,453,676. CONTAINER FOR PACKED POWDER AND FOODSTUFFS. JEREMIAH HORAN, New York, N. Y. Filed July 21, 1921. Serial No. 486,456. 3 Claims. (Cl. 206—56.)

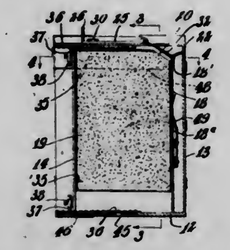
1. A container for packaged foodstuffs comprising a rectangular casing having a discharge opening at the top of one wall thereof, the opposite wall of the casing being in the form of a movable plate, and means for locking said plate at varying distances from the first wall,

said means comprising a locking bar pivoted between its ends to said plate and adapted to bear outwardly



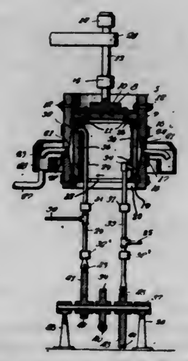
against the inner faces of the side walls of the container at its ends.

1,453,677. BOOK CONTAINER FOR PACKAGED FOODSTUFFS. JEREMIAH HORAN, New York, N. Y. Filed Dec. 2, 1921. Serial No. 519,337. 5 Claims. (Cl. 206—56.)



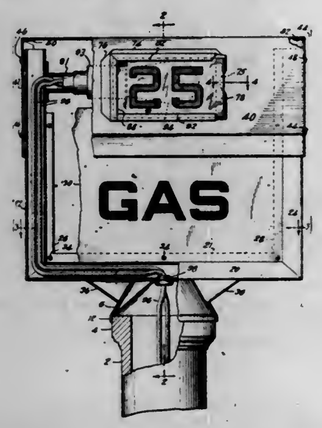
1. In a container for packaged foodstuffs, a movable wall element, a pair of rack members at opposite ends thereof, and bolts carried by said movable wall element, and engaging said racks, springs normally urging said bolts to released position, ratchet fingers fixed to said bolts, and spring pressed pins engaging said ratchet fingers to hold said bolts in locking position.

1,453,678. CENTRIFUGAL SEPARATOR. SYLVESTER S. HOWELL, Chicago, Ill., assignor to United Chemical and Organic Products Company, Chicago, Ill., a Corporation of Delaware. Filed June 12, 1920. Serial No. 388,674. 6 Claims. (Cl. 210—66.)



1. A centrifugal separator comprising a cylinder having a filtering side wall against which the material is held by centrifugal action and having an open bottom thru which the material is free to fall when the rotation of the cylinder is stopped; an axially movable nozzle for projecting the material against the filtering side wall when the cylinder is being rotated and a means axially movable in alternate timed relation with the nozzle to loosen the material from the side wall.

1,453,679. DISPLAY SIGN. DAVID ISHBIA, Palisades, N. J.. Filed Dec. 9, 1921. Serial No. 521,178. 7 Claims. (Cl. 40—130.)



1. A display sign comprising a base having uprights secured thereto, a hood carried by said uprights, a sign beneath said hood secured to said uprights and a single lamp within said hood adapted to illuminate said sign, the inner surface of said hood serving as a reflector to direct the rays of light to both sides of said sign.

1,453,680. HOOK. EINER JOHNSON, Duluth, Minn. Filed July 1, 1922. Serial No. 572,280. 2 Claims. (Cl. 292—95.)

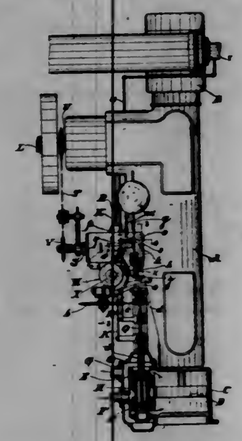


1. A hook of the character described suspended within a screw eye having means formed integral therewith to prevent lateral movement of the hook.

1,453,681. OIL GOVERNOR FOR COMPRESSOR ENGINES. JOSEPH W. JONES, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 27, 1922. Serial No. 564,101. 3 Claims. (Cl. 103—12.)

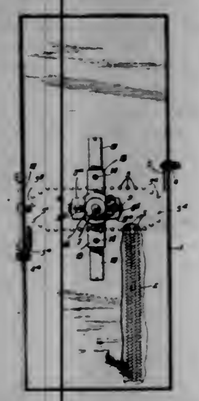
1. In an engine driven compressor, a discharge line pressure and speed controlled regulator, comprising a chamber, a fluid actuated plunger therein connected to an inlet valve of the engine, a pump responsive to the engine speed for supplying fluid to said chamber, a by-pass pilot valve for controlling the supply of fluid to said chamber, means responsive to discharge line pressure for

moving said pilot valve in a direction to increase the supply of fluid to the plunger chamber, and opposing means actuated by the plunger, and including a cam and



follower, operatively connected to move said pilot valve in the opposite direction tending to decrease the supply of fluid to the plunger chamber.

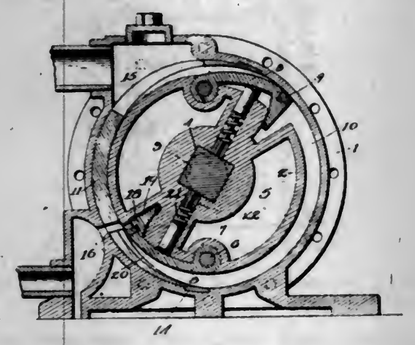
1,453,682. RHEOSTAT. LEONARD KEBLER, Bronxville, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Dec. 20, 1920. Serial No. 431,828. 15 Claims. (Cl. 219—48.)



1. A rheostat comprising a rotatable contact arm, a series of fixed contacts, and resistance elements connected to said contacts, a portion of said series of contacts being nearer the axis of said arm than another portion of said contacts.

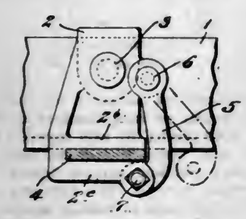
1,453,683. ROTARY ENGINE. SIRIUS EDWARD KOCHENDARFER, Washington, Pa. Filed Nov. 28, 1919. Serial No. 341,032. 1 Claim. (Cl. 121—95.)

A rotary engine comprising a stator having inlet and exhaust openings, a rotor peripherally spaced from the stator to provide a working chamber, a crescent inserted to fill one side of the working chamber and cover said openings, the crescent being tapered at the ends to provide cam approaches, one having a large exhaust port fitting over the exhaust opening, the other having a narrow inlet port fitting over the inlet opening and merging with a recess in the face of the crescent which tapers and



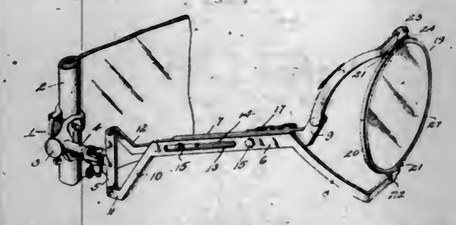
diminishes in depth in the direction of rotation of the rotor; and a pair of pistons carried by the rotor having means to keep them in contact with the working chamber wall.

1,453,684. THIRD OR FOURTH POINT SUSPENSION SUPPORT MOUNT OR BRACKET FOR BRAKE BEAMS. ERNEST A. LE BEAU, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 2, 1921. Serial No. 489,241. 9 Claims. (Cl. 188—213.)



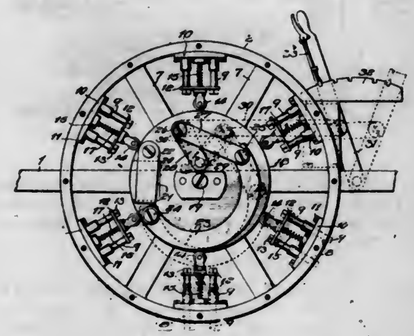
5. A brake beam third or fourth point suspension support-mount comprising a member having a recess adapted to receive the support and a permanently connected member movable at an angle, relative to the support, for holding it in said recess.

1,453,685. SHIELD FOR MOTOR VEHICLES. CHARLES A. LONGENBAUGH, Columbus, Ohio. Filed Apr. 10, 1922. Serial No. 551,385. 5 Claims. (Cl. 296—97.)



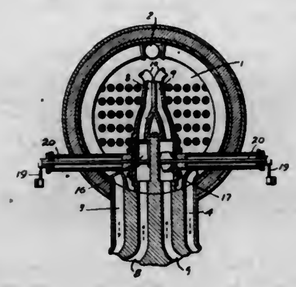
4. In a device of the class described, a pair of longitudinally sliding bars, means for supporting the bars on a vehicle, a glare shield pivotally associated with the bars and capable of swinging automatically on its horizontal axis when sliding movement is imparted to the bars.

1,453,686. TRACTOR OR TRUCK WHEEL. LOUIS LOOK, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,062. 10 Claims. (Cl. 301—48.)



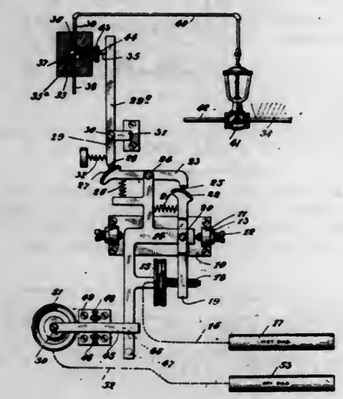
3. In combination with a vehicle, a pair of supporting wheels, a series of pins slidable radially through the rim wall of said wheels, a stationary concentric disc operatively engageable with the pins to prevent their accidental withdrawal from the rim wall and having a radial recess in its periphery, an insert fitting into said recess flush with the disc periphery, means for removably holding said insert in place whereby it may be removed to permit one of said pins to be withdrawn radially inwardly from the rim, a cam carried on said disc and operatively engageable with said pins in succession to actuate them radially through said wheel rim and means for detachably locking said cam to adjustably limit the outward radial movement of said pins.

1,453,687. MEANS FOR REUTILIZING STEAM. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker, administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Filed June 16, 1919. Serial No. 304,454. 3 Claims. (Cl. 105—38.)



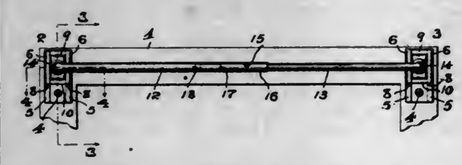
1. In combination with the driving engine of a locomotive, a turbine and means for supplying exhaust steam from the driving engine on each side of the locomotive to said turbine, said means comprising a plurality of passages, each passage constituting connection between a locomotive engine and the turbine.

1,453,688. INSTRUMENT OF PRECISION. HERBERT P. MILKER, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 2, 1921. Serial No. 519,365. 15 Claims. (Cl. 236—44.)



2. In an apparatus capable of transmitting movements generated by pressure changes, a member movable in one plane by pressures from one source and also movable in another plane by pressures from another source, and means controlled by said member.

1,453,689. CURTAIN-SUPPORTING ATTACHMENT. VITO NOLE, Newark, N. J. Filed Jan. 14, 1919. Serial No. 271,061. 2 Claims. (Cl. 156—22.)

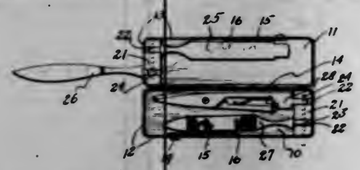


2. A curtain-attachment for windows, and the like, comprising a pair of rectangularly-shaped supporting elements adapted to be secured in fixed positions, each supporting element having its vertically disposed margins bent over into positions parallel with the face of said supporting element, the upper portions of said bent margins being spaced from said face to provide guideways, thereby to provide a stop between each tightly forced down portion and the guide-way, the lower portion of each supporting element beneath said stops being provided with an exposed perforation for the reception of a receiving means, a pair of slide-plates movably disposed between the guide-ways of the respective supporting elements, said slide-plates normally resting upon said stops, and a supporting rod connected at its ends with said slide-plates, said rod comprising a pair of telescopically arranged tubular members, and a pointed inserting member extending from one of said tubular members.

1,453,690. TOILET ACCESSORY. VINCENT O'CONNELL, New York, N. Y. Filed Aug. 9, 1922. Serial No. 580,648. 2 Claims. (Cl. 132—79.)

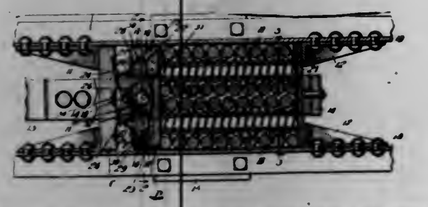
1. A casing comprised of two equal oblong rectangular halves, a hinge connecting said halves along one of their longer edges, releasable snap fastenings on the opposite edges of each half, slotted blocks fixed in the opposite ends of each half casing, the slots extending through the

end walls of the casings, and a plurality of various implements hingedly engaged within the mentioned slots of



said blocks, said implements being adapted to extend individually outward or fold within the casing.

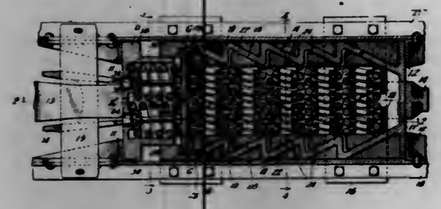
1,453,691. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 30, 1919. Serial No. 334,568. 6 Claims. (Cl. 213—36.)



2. In a friction shock absorbing mechanism, the combination with a friction shell having oppositely inclined sets of friction surfaces on each side of the center line thereof, of a spring resistance, a follower engaging one end of said spring resistance, two sets of friction elements co-operable with said friction surfaces of the shell, one element of each set of friction elements engaging said follower, and a second follower, a different element of each of said sets of friction elements engaging said second follower

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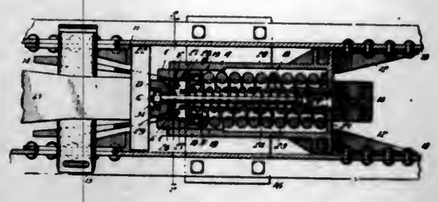
1,453,692. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,663. 2 Claims. (Cl. 213—39.)



2. In a friction shock absorbing mechanism, the combination with a longitudinally movable friction shell having a pair of opposed sets of interior friction surfaces; of a pair of friction shoes within the shell, each shoe having a plurality of outer friction surfaces cooperable with those of one set of the shell; a plurality of transversely arranged coil springs interposed between said shoes; and a removable block detachably mounted on the outer end of each shoe, said block having its interior conformed to center the adjacent transversely extending coil spring.

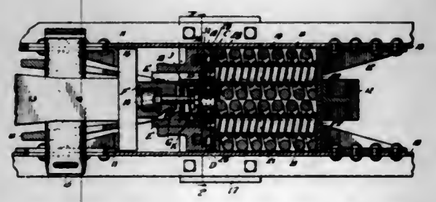
1,453,693. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,990. 5 Claims. (Cl. 213—32.)

1. In a friction shock absorbing mechanism, the combination with a friction shell; of a spring resistance; friction shoes cooperable with said shell; a pressure transmitting wedge; and rollers having ribs, interposed be-



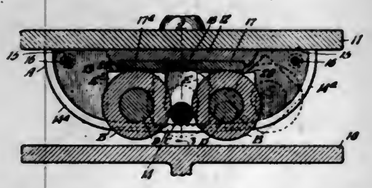
tween said wedge and shoes, said wedge and shoes having faces provided with ribs co-operable with the first named ribs, said faces of said wedges and shoes diverging uniformly from end to end.

1,453,694. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed July 11, 1921. Serial No. 483,668. 11 Claims. (Cl. 213—32.)



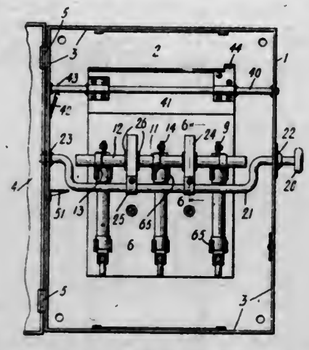
1. In a friction shock absorbing mechanism, the combination with a friction shell; of wedge friction elements cooperable with the shell; a main spring resistance including nested inner and outer coils; and means interposed between said friction elements and the adjacent ends of said coil springs, actuated by the friction elements upon movement of the latter inwardly of the shell, said means compressing one coil only of each set of inner and outer nested coils initially for a limited distance and thereafter all of the nested coils.

1,453,695. ANTIFRICTION SIDE BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 18, 1922. Serial No 537,427. 7 Claims. (Cl. 64—64.)



1. In an anti-friction bearing, the combination with a retaining member having longitudinally separated bearing surfaces; of a pair of anti-friction rollers each normally adapted to roll on one of said bearing surfaces; means for elevating one of said rollers when the bearing is actuated in one direction and for elevating the other roller when the bearing is actuated in the opposite direction; and journal bearings for each roller movable therewith and normally inactive but adapted to be operative when the corresponding roller passes off of its bearing surface to a point between the bearing surfaces.

1,453,696. ELECTRICAL SWITCH. ALBERT P. BALL, Royal Oak, and FREDRICK ZENKER, Highland Park, Mich., assignors to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 24, 1917. Serial No. 198,297. 8 Claims. (Cl. 200—50.)



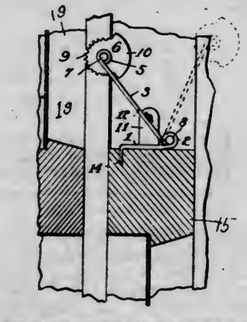
1. In a device of the character described, in combination, a casing having a movable cover, a switch contained in said casing and comprising fixed and movable contacts, a handle outside the casing having operating connections with said movable contacts, a baffle plate pivotally mounted within said casing and spring urged toward a position to obstruct closure of the switch, means operative upon closure of the cover to move said baffle plate out of obstructing position, and means independent of said baffle plate for locking said operating connections in open switch position with the cover closed.

1,453,697. PRESSER FOR VELOUR, BOLIVIA, ETC. RUBIN BASS, Brooklyn, N. Y. Filed Oct. 4, 1922. Serial No. 592,241. 4 Claims (Cl. 68—11.)



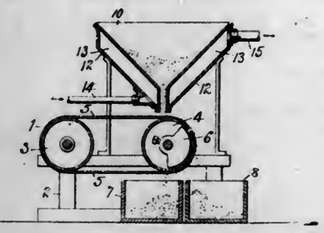
3. A flexible pressing device comprising a cloth foundation having needles extending therethrough from the back and a fine mesh wire backing secured to the foundation over the backs of the needles at close intervals to prevent the needles from working loose.

1,453,698. WINDOW-SASH LOCK. FRANK R. BODNAR, Bridgeport, Conn. Filed Apr. 1, 1922. Serial No. 548,621. 7 Claims. (Cl. 292—239.)



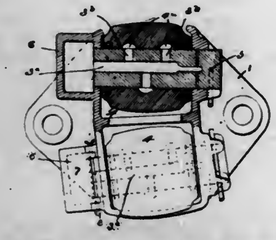
1. An window lock comprising a base plate having attaching means, a lever plate hinged to one end of the base plate, and a cam wheel eccentrically pivoted on the free end of the lever plate with its axis parallel with the lever axis.

1,453,699. METHOD FOR SEPARATING MAGNETIC MATERIALS. OSCAR BROPHY, Philadelphia, Pa. Filed Sept. 28, 1921. Serial No. 503,883. 6 Claims. (Cl. 83—71.)



1. The method of separating two magnetic substances by means of a magnetic separator, comprising the heating of the substances to a sufficient temperature to render one of said substances non-magnetic without change of composition and passing the substances through the separator while heated.

1,453,700. LUBRICATED ROLLER SIDE BEARING. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1922. Serial No. 539,479. 3 Claims. (Cl. 64—27.)



2. In a bearing, the combination of supports, a ported roller pin mounted in said supports, a side bearing roller rotatably mounted on said pin, an externally arranged lubricant chamber formed integral with said support at one end of, and in axial alinement with, said pin and in communication with the ports of said roller pin, and a closure for said chamber.

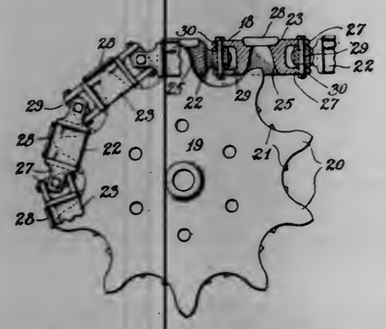
1,453,701. CAR - DOOR - OPERATING MECHANISM. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Original application filed Dec. 27, 1921, Serial No. 525,105. Divided and this application filed July 10, 1922. Serial No. 573,848. 4 Claims. (Cl. 105—300.)



1. In a dump car, the combination with a pair of oppositely swinging pivoted floor doors separated by an in-

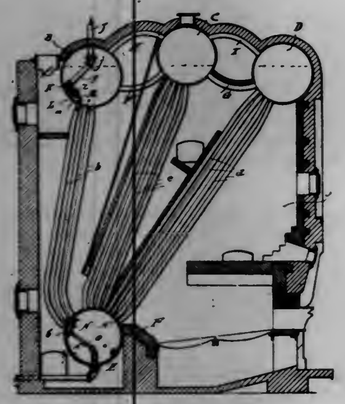
terminate fixed floor section, said doors having their pivots extending transversely of the car; of an operating shaft located beneath said floor section and on a level below the plane of the door when the latter are in closed position, said shaft extending parallel to the pivotal axes of the doors, and oppositely extending flexible connections from said shaft to both doors.

1,453,702. UNIVERSAL CONVEYER CHAIN. GEORGE CARSTENS, Jersey City, N. J., assignor of one-fourth to Harold E. Muller, Jersey City Heights, N. J. Filed Nov. 5, 1921. Serial No. 512,968. 11 Claims. (Cl. 198—189.)



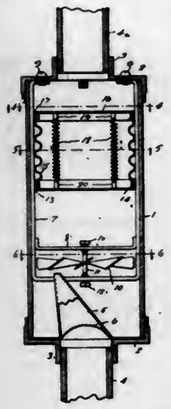
1. A chain of the class described composed of two sets of links alternately arranged and universally coupled together to form a complete chain, the separate links being of approximately the same form and construction and provided on one face thereof with means whereby predetermined devices may be mounted in connection therewith, the other faces of said links being provided with recesses adapted to receive the teeth of a drive wheel or sprocket.

1,453,703. BOILER. RAGNAR CEDERBLOM, Youngstown, Ohio. Filed Mar. 8, 1920. Serial No. 363,977. 3 Claims. (Cl. 122—444.)



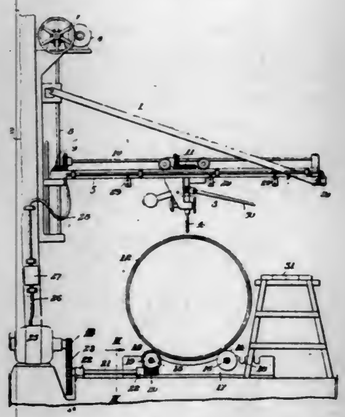
1. A boiler of the class described, comprising a plurality of drums having tubular connections with each other, of means for feeding liquid into certain of the tubular connections, said connections being coupled to a header and feed water pipe in one drum and communicating through a chamber in another drum formed by an adjustable and removable partition therein, whereby the liquid in the said tubular connections is caused to circulate independently of the liquid contained in the drums, said tubular connections passing through the heating zone of the boiler.

1,453,704. PRESSURE REGULATOR. IRVING R. COWIN, Cleveland, Ohio, assignor of one-half to William Carmack and one-half to F. C. Werk, both of Cleveland, Ohio. Filed Dec. 23, 1921. Serial No. 524,435. 2 Claims. (Cl. 50—14.)



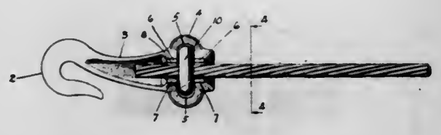
1. A gas pressure regulator comprising a casing having an inlet at one end and an outlet at the other, a cylindrical bellows supported in the casing between the inlet and the outlet, a plate extending across the end of the bellows nearest the outlet, and springs connected to said plate, the plate being movable according to the pressure in the bellows, toward and from said outlet.

1,453,705. BOILER-TURNING CRADLE. JAMES CROMBIE, St. Louis, Mo. Filed Dec. 30, 1921. Serial No. 525,951. 2 Claims. (Cl. 77—63.)



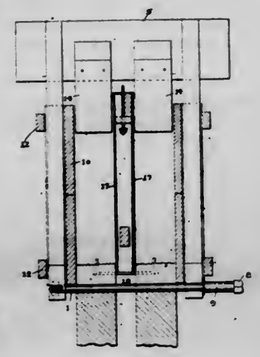
1. In combination, a boiler turning cradle for a drill-press comprising a set of supporting rolls two of which are connected to rotate as a pair, a reversible electric motor connected to said pair of rolls to positively rotate the same in either direction, and controls for said motor located on the drill press convenient to the drill controlling mechanism.

1,453,706. CLIP HOOK. OLIVER CROSBY, St. Paul, Minn. Filed Dec. 27, 1921. Serial No. 525,063. 4 Claims. (Cl. 24—135.)



1. The combination, with a hook having a flattened side and a cable receiving recess on said flattened side extending longitudinally of the shank of the hook whereby a pull on the cable will be transmitted longitudinally of the hook shanks, pairs of projections extending outwardly from said flattened side on opposite sides of said recess, said flattened sides having openings extending therethrough on opposite sides of said recess and between said projections, a U-bolt straddling said recess and having threaded legs extending between said projections and through the openings in the hook shank, and nuts engaging the threaded legs of said U-bolt.

1,453,707. METHOD OF AND APPARATUS FOR FORMING CONCRETE STRUCTURES. HIRAM C. J. DEEKS, Sea Cliff, N. Y., and MAURICE DEEKS, Rochelle Park, N. J., assignors to Joseph Deeks, Sea Cliff, N. Y. Filed Sept. 18, 1920. Serial No. 411,238. 7 Claims. (Cl. 25—131.)



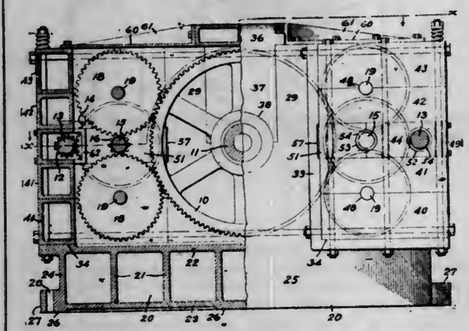
2. In apparatus for forming hollow concrete structures the combination of a core having overlapping upright retaining members, a tapered spacing member between said retaining members, and a core cover consisting of a plurality of longitudinally tapered members having depending flanges in overlapping arrangement and adapted to engage the upper edges of the upright retaining members, and means for supporting said core in operative position.

1,453,708. FINGER RING AND SETTING. GEORGE GASCHKE, Newark, N. J., assignor to American Platinum Works, Newark, N. J., a Corporation of New Jersey. Filed Apr. 16, 1921. Serial No. 461,896. 3 Claims. (Cl. 63—15.)

1. A finger ring comprising an integral band having a transverse recess in its periphery, a pair of integral retaining prongs extending outward from said band, a base element fitted to be received in the mentioned recess, lugs on said base engageable with the sides of said band, and a plurality of retaining prongs extending from said base.

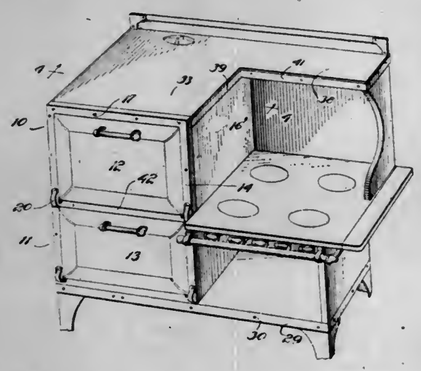


1,453,709. GEARING. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 443,020. 10 Claims. (Cl. 74—7.)



1. In a gearing, the combination of a base, uprights carried by the base and spaced from one end of it, a gear wheel carried by said uprights, a plurality of supporting and spacing members mounted on the end of said base and fastened to it and said uprights, said members being horizontally divided and built up one above another to form a unitary construction, and a gear wheel arrangement carried by said members and cooperating with said gear wheel.

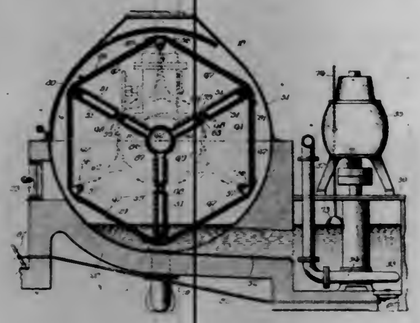
1,453,710. STOVE CONSTRUCTION. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Mar. 24, 1922. Serial No. 546,335. 22 Claims. (Cl. 126—1.)



1. In a stove construction, a sheet metal oven comprising a wall having an inturned edge portion, another

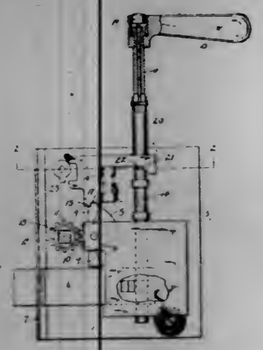
wall having a portion disposed in the plane of said first mentioned wall and having an inturned edge portion adapted for abutment with said first mentioned portion within said oven and means for fastening said inturned edge portions together inside said oven.

1,453,711. COMBINED WASHER AND DRIER. HANS C. HOTING, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Apr. 7, 1919. Serial No. 288,112. 11 Claims. (Cl. 68—18.)



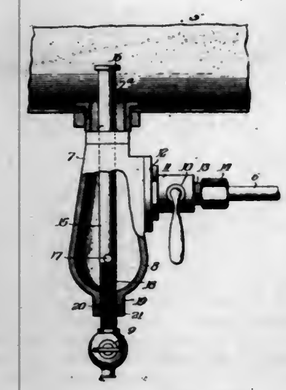
1. In a washer, a rotatable clothes container, radially extending longitudinal perforated partitions mounted therein for dividing said container into compartments, longitudinal perforated pipes for directing a plurality of streams of washing medium toward a common region in each of said compartments, said region being spaced from the longitudinal walls of said compartment, and means forming a receptacle for holding a quantity of washing medium with which said compartments are adapted to communicate successively.

1,453,712. LATCH FOR VEHICLE DOORS. RICHARD V. KAIMER, New Haven, Conn., assignor to The English & Mersick Co., New Haven, Conn., a Corporation. Filed July 12, 1922. Serial No. 574,446. 2 Claims. (Cl. 292—164.)



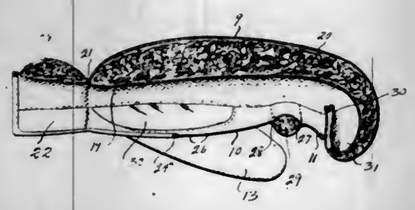
1. A latch for vehicle doors, comprising a bolt having an operating arm, a cam mounted in the casing and adapted to move the arm when turned in either direction, the said cam formed with teeth, and a hub mounted in the case forward of the said cam and provided with teeth meshing with the teeth on said cam and adapted to be turned by a handle-spindle.

1,453,713. RESERVE-SUPPLY DEVICE FOR GASOLINE TANKS. EDWARD W. KRUSE, Chicago, Ill. Filed Mar. 31, 1921. Serial No. 457,397. 3 Claims. (Cl. 158—46.5.)



1. The combination with a gasoline tank, and a chambered supply pipe coupling communicating with the bottom of said tank, of a supply pipe section extending through the bottom of said tank and lying partly in said tank and partly in the chamber of said coupling, said supply pipe section having an upper opening communicating with said tank and fixing the level of the reserve supply and a lower opening communicating with said supply pipe coupling, and means for adjusting said supply pipe section downwardly to bring said upper opening substantially flush with the bottom of said tank whereby to drain therethrough the reserve supply of gasoline.

1,453,714. FIGHTING GLOVE. SOL LEVINSON, San Francisco, Calif. Filed Jan. 12, 1921. Serial No. 436,749. 4 Claims. (Cl. 2—196.)

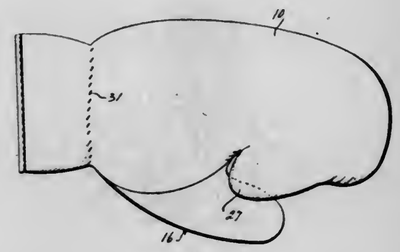


1. A boxing glove of the character described having on the palm of the glove a transversely extending padded strip and having adjacent the extremity of the glove upon the inside thereof and outward of said padded strip a transversely extending flexible rib defining a pocket for the extremities of the fingers, said rib and the transversely extending padded portion constituting a double grip for the glove.

1,453,715. FIGHTING GLOVE. SOL LEVINSON, San Francisco, Calif. Filed Jan. 12, 1921. Serial No. 436,750. 2 Claims. (Cl. 2—196.)

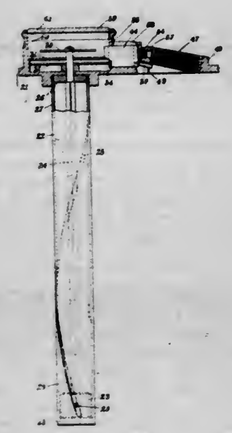
1. A boxing glove having a thumb portion and a padded body portion with which said thumb portion is

connected, said body having an angular protuberance integrally formed therewith and adapted to extend from



the side of the glove inwardly toward the crotch of the thumb to protect the knuckle of the user disposed within said thumb portion.

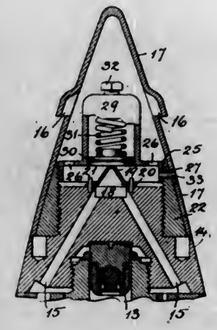
1,453,716. FLUID-REGISTERING MECHANISM. CHARLES F. MACGILL, Cambridge, Mass. Filed Aug. 16, 1921. Serial No. 492,818. 3 Claims. (Cl. 235—94.)



1. In combination with a fluid container, a rotary shaft having indicator means controlled by the rotation of said shaft, said shaft being axially slidable, a float in said container, intermediate mechanism, whereby the rising of the float causes said shaft to rotate, said container having a filling opening, a cap for said filling opening, and means actuated by the closing down of the cap to move said shaft axially out of operative relation to the rotating mechanism therefor.

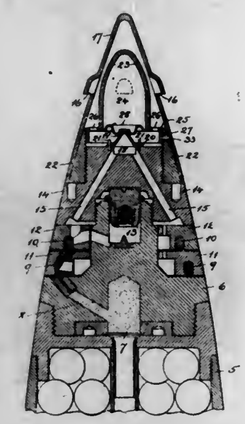
1,453,717. TIME FUSE. ALTEN S. MILLER, Baltimore, Md. Filed Sept. 28, 1917, Serial No. 193,690. Renewed Nov. 27, 1922. 9 Claims. (Cl. 102—36.)

9. A time fuse having a vent from the interior to the exterior in combination with a time powder train, a valve and valve-closing means to control the escape of gases from the fuse said valve and valve-closing means having balanced surfaces that are subject to atmospheric



pressure and said valve-closing means maintaining a uniform closing pressure on the valve irrespective of variations of atmospheric pressure.

1,453,718. ART OR PROCESS OF CONTROLLING THE BURNING OF TIME-POWDER TRAINS. ALTEN S. MILLER, Baltimore, Md. Filed Sept. 28, 1917. Serial No. 193,691. 5 Claims. (Cl. 102—36.)

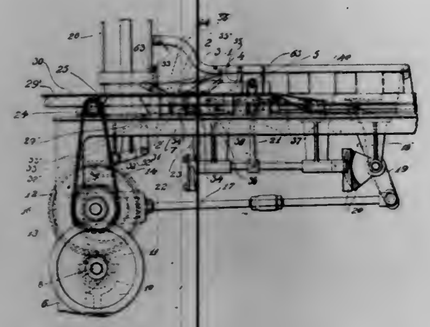


5. The method of controlling the burning of time powder trains in fuses, consisting in igniting a powder train, carrying a predetermined pressure in the fuse that is separate and independent of the exterior atmospheric pressure and utilizing the carried pressure to determine the pressure of the gases to be maintained on the powder train and venting only the generated gas pressure in excess of the carried pressure.

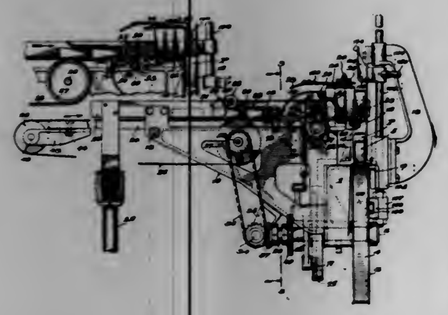
1,453,719. CARTON-WRAPPING MACHINE. JOHN J. MILLIN, New York, N. Y. Filed June 24, 1920. Serial No. 391,501. 4 Claims. (Cl. 93—53.)

4. In combination with a packing machine, a carton refolding device comprising a bending member, a refolding member adapted to partially refold a carton side around

said bending member, another refolding member adapted to finish the refolding operation of the first refolding member, and regulating means for defining the degree of the final operation of said other refolding member.



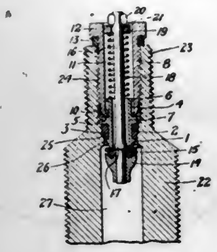
1,453,720. PACKAGE-FEED MECHANISM. CHARLES H. NITSCH and WILLIAM A. WEIGHTMAN, Logan, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1922. Serial No. 540,289. 27 Claims. (Cl. 198—20.)



1. Package or article feed mechanism, comprising a conveyor belt adapted to frictionally advance a row of packages, means for stopping a package row, means for repositioning a package row, and means for discharging a repositioned package row.

1,453,721. TIRE VALVE. ALBERT B. NORWALK, New York, N. Y., assignor of one-half to Conrad Hubert, White Plains, N. Y. Filed Jan. 3, 1918. Serial No. 210,134. 1 Claim. (Cl. 152—12.)

The combination in a tire valve comprising a tubular body, a plug having a valve seat, a valve member having a pin and a spring of an abutment on the outer end of the alve pin, adapted to permit lateral self-adjusting movement of the outer end of the valve pin in the plug member, said abutment being in the form of a plate having therein an aperture of larger diameter than the valve pin and through which the valve pin loosely passes for lateral self-adjusting movement relative thereto.



1,453,722. SLED ATTACHMENT FOR CARRIAGES AND THE LIKE. OTTO NUOFFER, New York, N. Y. Filed July 8, 1922. Serial No. 573,698. 3 Claims. (Cl. 280—13.)

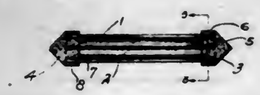


1. A sled runner for a wheeled vehicle comprising a coasting bar adapted to extend the length of the wheel base and support said vehicle, a channelled member secured to the coasting bar and adapted to receive the wheels of said vehicle, and means for preventing the vehicle from starting from a position of rest.

1,453,723. COMPOSITION FOR USE IN FINISHING DRY-CLEANED LEATHER. VICTOR O. OLSEN, Chicago, Ill., assignor to Charles McAdam Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1920. Serial No. 393,469. 2 Claims. (Cl. 134—7.)

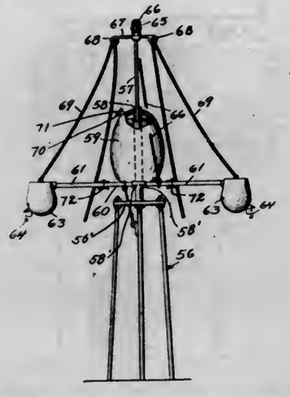
2. A paste for use with a solvent, in the finishing of dry cleaned leather goods, comprising petrolatum, cottonseed oil and zinc oxide in substantially the following proportions: petrolatum, thirty pounds, cottonseed oil, fifteen pounds, and zinc oxide, fifty pounds.

1,453,724. GRID LEAK. EDWIN L. POWELL and CHARLES E. MOTTO, Washington, D. C. Filed June 26, 1922. Serial No. 570,941. 12 Claims. (Cl. 219—75.)



1. A grid leak comprising a resistance element, means enclosing said element, and moulder members adhering to both the inside and outside of said enclosing means and supporting said element within said enclosing means.

1,453,725. PORTABLE DRINKING FOUNTAIN. GEORGE R. PRATT, Richmond, Va. Filed July 25, 1916, Serial No. 111,315. Renewed Sept. 15, 1922. Serial No. 588,513. 3 Claims. (Cl. 221—67.)

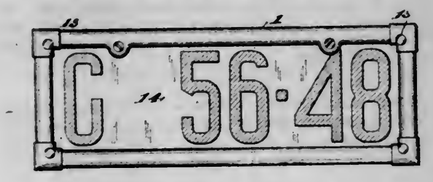


1. A water dispenser comprising a standard, a sleeve slidable on said standard, a receptacle carried by said sleeve, a hollow arm extending laterally from the sleeve and communicating with the receptacle, and a water dispensing means at the outer end of said arm.

1,453,726. INSULATING COMPOSITION AND METHOD OF MAKING SAME. THEODORE C. PROUTY, Los Angeles, Calif., assignor to Prouty-line Products Company, Hermosa Beach, Calif. Filed Apr. 13, 1920. Serial No. 373,500. 32 Claims. (Cl. 18—48.)

1. In a process of forming a composition of matter, the operations of mixing dry powdered talc with a temporary binder free of water and heating the mixture.

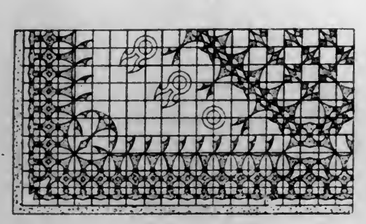
1,453,727. ADJUSTABLE LICENSE-PLATE HOLDER. WILLARD V. PUMPHREY, Oakland, Calif. Filed Feb. 23, 1922. Serial No. 538,662. 2 Claims. (Cl. 40—125.)



1. A vehicle license plate holder comprising a plurality of frame forming members substantially L-shaped in cross section, said frame forming members adapted for arrangement about the periphery of a license plate with their ends in cooperating relation, a slotted part for receiving with a longitudinal movement the cooperating ends of the respective frame forming members, and with which the same have interlocking relation and securing means passing through said respective parts and license plate for holding the license plate within the frame and the frame sections in interlocking relation.

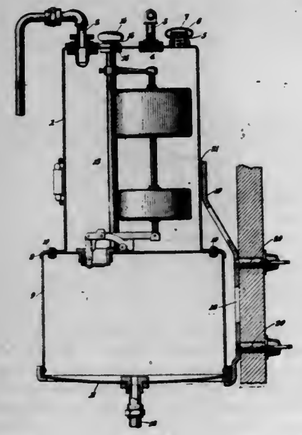
1,453,728. MEANS FOR DEVISING ORNAMENTAL DESIGNS. FERNAND JOSEPH RHODES, Paris, France. Filed June 1, 1921. Serial No. 474,112. 5 Claims. (Cl. 35—12.)

1. Units of square form presenting ornamental surfaces and capable of being grouped together having in each square curves of arcs for the purpose of producing a variety of ornamental designs, the said curves or arcs having their centres located on the sides or diagonals of



the squares or upon prolongations of these lines and their radii being polynomial functions having integral coefficients of the side of the square and of the half-diagonal.

1,453,729. MEANS FOR SUPPORTING VACUUM FEEDING SYSTEMS. EDWARD A. ROCKWELL, New York, N. Y., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, a Corporation of Virginia. Filed June 4, 1919. Serial No. 301,825. 3 Claims. (Cl. 211—20.)

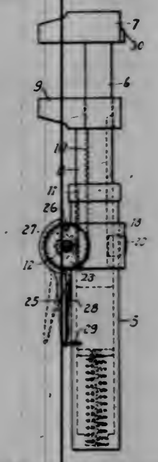


1. In combination, a bracket having a vertical portion with means for securing it to a support, a single supporting flange at the bottom of the bracket extending outwardly therefrom so that a container may be laterally placed thereon, a clamping means attached to the upper end of the bracket, and a hook and loop at the respective ends of the clamping means with a ring connected to the loop, and a yoke fastening the ring and hook in operative engagement.

1,453,730. WRENCH. EMIL STAEHELIN, Chicago, Ill. Filed Apr. 6, 1920. Serial No. 371,685. 11 Claims. (Cl. 81—133.)

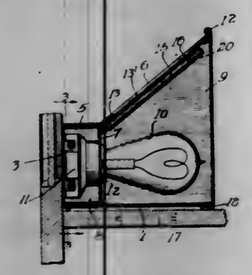
1. A wrench comprising a handle, two pinions mounted for rotation in said handle, said pinions being non-rotatable relatively to each other, two shanks slidably mounted in said handle, each of said shanks having a gear rack

thereon, and each of said shanks projecting out of said handle, said rack-meshing with the respective pinions,



each of said shanks having a wrench jaw fixed to its outer end, one of said pinions being smaller than the other.

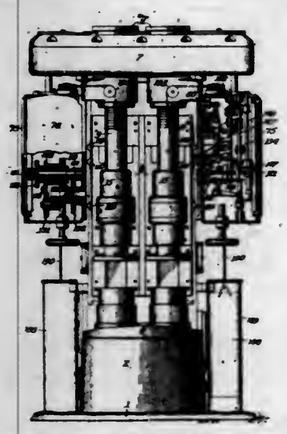
1,453,731. DISPLAY LIGHT. GEORGE E. STEPHENSON, Chicago, Ill. Filed Mar. 30, 1922. Serial No. 548,067. 3 Claims. (Cl. 40—130.)



1. In a device of the kind described and in combination, a sheet metal casing having an opening through one of its sides and having bounding edges of said opening bent back upon itself, channel members at the edges of said opening, each having one leg secured between the casing wall and said bent-back edge of the opening, and a window arranged to removably slide in said channels to cover said opening and adapted to have an advertisement superimposed thereon.

1,453,732. AUTOMATIC MACHINE TOOL. WILLIAM N. STEVENS, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 26, 1921. Serial No. 495,707. 26 Claims. (Cl. 29—38.)

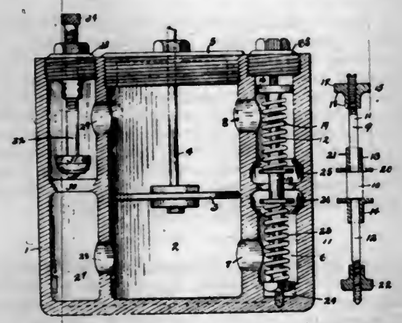
1. In a machine of the character described, the combination of a bed, a rotary table on said bed, a series of work holders carried by said table, an upright frame structure in rear of said bed, a plurality of slides mounted to reciprocate vertically on said frame structure, a corresponding plurality of vertical spindles journaled in said slides, a power shaft, independent driving connections from said power shaft to said spindles, independent power transmission mechanisms from said power shaft to said slides for reciprocating the latter, and means actuated from said power shaft for indexing said table.



15. In a machine of the character described, the combination of a hollow upright frame structure, a pair of vertically reciprocable slides mounted on said frame structure, a pair of spindles carried by said slides, means for rotating said spindles, a vertical drive shaft journaled in said frame structure, a pair of control boxes mounted on opposite sides of said frame structure, independent sets of feed works for said slides mounted in said control boxes, a pair of cross shafts geared at their inner ends to said drive shaft and at their outer ends to said feed works, and another pair of cross-shafts geared at their outer ends to said feed works and at their inner ends to said slides to reciprocate the latter.

24. In a machine of the character described, the combination with a frame structure, of a spindle slide mounted thereon, a hollow spindle journaled in said frame structure and slide and formed with a transverse slot, a yieldable clutch connecting said spindle to said slide, a stop nut on the outer end of said spindle to limit the inward travel of the latter, a facing slide mounted on the inner end of said spindle, a feed bar slidably mounted in the inner end portion of said hollow spindle, a key extending through said spindle slide and feed bar and traveling in the slot of said spindle, and rack and pinion mechanism for actuating said facing slide from said feed bar.

1,453,733. DASHPOT. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 7, 1918. Serial No. 257,090. 8 Claims. (Cl. 188—97.)



1. In a dash pot, the combination of a container having a cylindrical chamber and a passage paralleling the chamber and connected therewith adjacent the bottom and top of said chamber, fluid contained in said chamber and passage, a piston movable in said chamber, and automatic means controlled by the flow of fluid through said passage for restricting the section of said passage upon sudden movement of said piston in either direction.

1,453,734. METHOD OF REFINING IRON AND STEEL. HENRY THOMAS, Cleveland, Ohio. Filed Oct. 28, 1920. Serial No. 420,226. 2 Claims. (Cl. 75—49.)

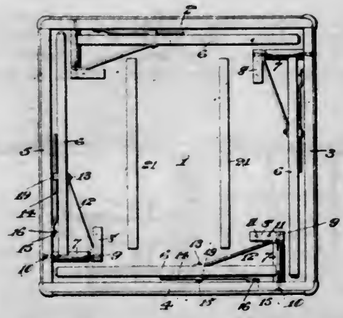
1. In a method of refining iron and steel, the step which consists in fusing the iron and steel with a flux consisting of glass, lime, borax and fluorspar.

1,453,735. DISTILLATION APPARATUS. RALPH H. TWINING, Marquette, Mich. Filed Jan. 20, 1922. Serial No. 530,532. 4 Claims. (Cl. 195—13.)



1. In a column, a diaphragm plate provided with a plurality of perforations therethrough to permit the upward passage of the vapor in the column, rivet shaped check valves in said perforations to prevent the downward flow of the liquid therethrough, and means for retaining said valves in said perforations.

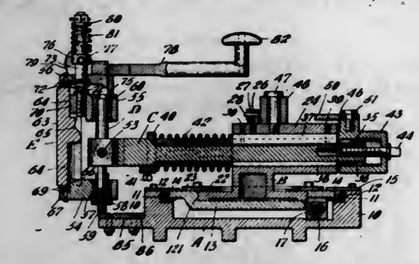
1,453,736. TABLE. ANDREW WAGNER, West Hoboken, N. J., assignor to Ferguson Brothers Mfg. Co., Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 9, 1921. Serial No. 443,637. 3 Claims. (Cl. 45—11.)



1. A folding table comprising a top having a peripheral frame, blocks secured to the underside of the table top and spaced from the peripheral frame, to permit the free ends of the legs to fold against the table top between the blocks and peripheral frame, foldable legs, each leg having a laterally extended hub located between the frame and block, screws extending through the frame and block respectively, into the ends of the hub for pivoting the leg to the frame and block, a rigid diagonal brace leading from the end of the hub adjacent the block to the leg, and a swinging brace pivoted to the table and arranged to engage the leg for locking the leg in its unfolded position.

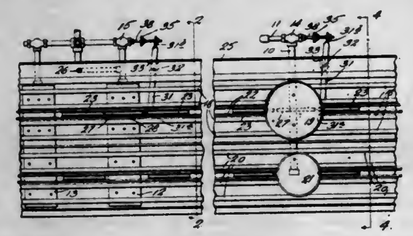
1,453,737. JIG FOR GRINDING PURPOSES. KEITH WILLIAMS, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,992. 15 Claims. (Cl. 51—217.)

1. In a jig of the character described, the combination with clamping plates, one relatively axially movable toward the other; of a spindle on which said plates are mounted; a slidable plunger on which said spindle is swiveled to freely oscillate about an axis at right angles to the axis of the spindle; and a support on which said



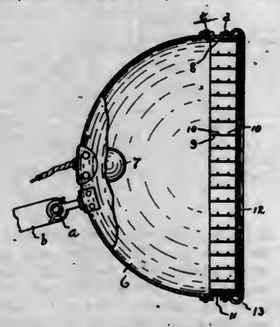
plunger is slidably mounted, said support being rotatable about an axis perpendicular to the line of sliding movement of the plunger.

1,453,738. MACHINE FOR WASHING CANS AND THE LIKE. FRANK F. WOLF, Buffalo, N. Y., assignor to Rice & Adams Corporation, Buffalo, N. Y. Filed Dec. 31, 1921. Serial No. 526,156. 7 Claims. (Cl. 141—7.)



1. In a machine of the character described, the combination of means for supporting articles to be treated while traveling through the machine, a reciprocatory conveyor for moving the articles on said supporting means through the machine, means for discharging a medium to said articles, a valve controlling the discharge of said medium, an operating member for opening said valve, and a device which is mounted on said reciprocatory conveyor and is shifted by an article in operative relation to said discharge means to a position for engaging said valve operating member, said device moving said operating member to open said valve during movement of said conveyor in one direction.

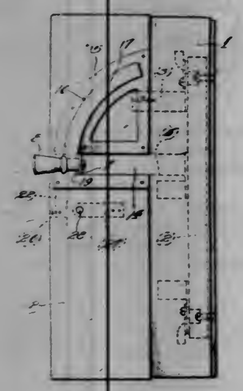
1,453,739. LAMP-REFLECTOR ATTACHMENT. FREDERICK BEDFORD, Stratton, Nebr. Filed June 19, 1922. Serial No. 569,369. 6 Claims. (Cl. 240—48.4.)



1. The combination with a lamp reflector of concavo-convex form, of horizontal blades disposed in spaced

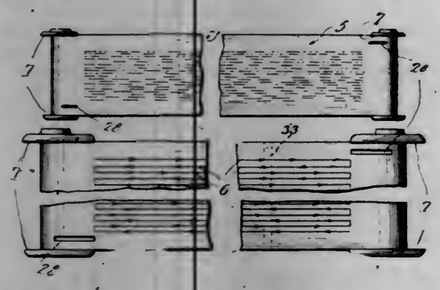
relation in the reflector, said blades being provided inwardly of their longitudinal edges with rectilinear ribs for obstructing rays of light directed from the reflector and lamp.

1,453,740. EXTERNALLY-OPERABLE INCLOSED SAFETY-TYPE SWITCH. ERNEST L. BRENK, Cicero, Ill. Filed Jan. 17, 1921. Serial No. 437,671. 2 Claims. (Cl. 200—50.)



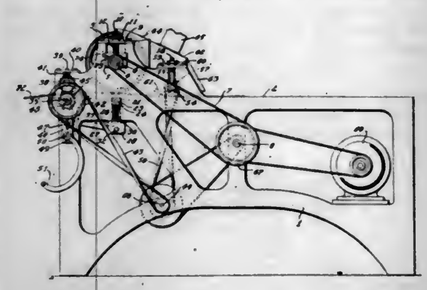
1. A casing open on one side, a door extending across said open side, said door being hinged at one edge to the casing and having at the other edge a wide flange extending inwardly at right angles thereto and lying in proximity to one of the side walls of the casing when the door is closed, a switch device in said casing, said flange and said side wall of the casing having registering arc-shaped slots therethrough, an operating handle for said switch device projecting through said slots, and said flange having a second slot extending from one end of the arc-shaped slot therein outwardly through one edge of the flange and possessing a width sufficient to permit the opening and closing of the door when said handle is brought into registration therewith.

1,453,741. APPARATUS FOR TRANSMITTING WORDS. MAURICE BRODEUR, Montreal, Quebec, Canada. Filed May 7, 1921. Serial No. 467,706. 5 Claims. (Cl. 35—12.)



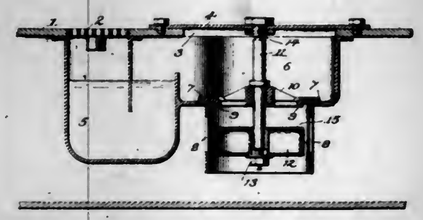
1. A device of the character described, comprising a pair of shafts, a sheet wound around said shafts and adapted to be wound from one to the other, an opening through said sheet, a pair of electrical contacts on opposite sides of the sheet in line with said opening and adapted to allow the passage of an electric current through them when registering with said opening, a two faced clutch mounted upon one of said shafts, a shifting piece between the faces of said clutch, and means electrically connected with said contacts for moving said shifting piece from one face to another when said contacts are in register with said opening.

1,453,742. ABRADING MACHINE. FLETCHER W. BROWNING, Kingsport, Tenn. Filed Aug. 28, 1922. Serial No. 584,796. 11 Claims. (Cl. 51—78.)



1. In a machine for abrading flexible strip material, in combination, a table, an abrading drum adjustably mounted above said table, a presser roller yieldably mounted below said drum, cam means for varying the pressure of said presser roller, manual means for operating said cam means, feed rollers for gripping and feeding said material, and means under the control of the operator for manipulating said feed rollers.

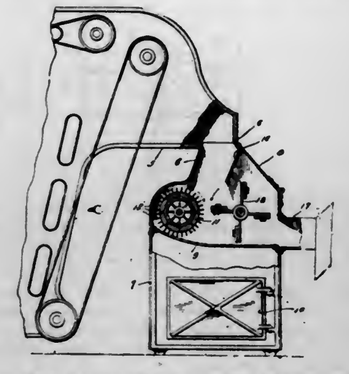
1,453,743. DRAIN TRAP. WILLIAM J. WILLETT BRUCE, Cheshire, England. Filed Dec. 30, 1920. Serial No. 434,108. 4 Claims. (Cl. 182—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a structure of the class described, the combination of a casing having a trap at one end, said trap at its lower end communicating with a normally unsealed chamber formed to one side thereof; a valve seat located in the lower portion of the chamber; and a float valve mounted below the seat for movement toward and from said seat.

1,453,744. COTTON CLEANING AND CONDITIONING MACHINE. JAMES C. BYERS, Hickory, N. C. Filed June 7, 1921. Serial No. 475,770. 5 Claims. (Cl. 19—93.)

4. In a cotton cleaning and conditioning machine, a chamber having a cotton receiving opening in the top thereof and an outlet opening in the forward wall thereof, a toothed element arranged at one end of the chamber, a fan also journaled in the chamber forwardly of the toothed element and adapted to force the cotton through the teeth, an angularly disposed deflector plate depending from the upper end of the chamber and disposed to one side of the inlet opening and adapted to direct the coton toward the toothed element, and a grating extending horizontally across the chamber beneath the toothed element and fan through which waste products pass.

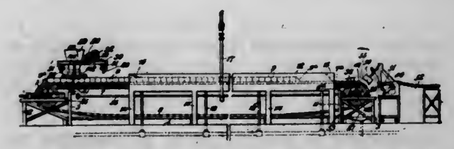


1,453,745. CONNECTOR FOR MOPS AND THE LIKE. CHARLES CÁBANA, Buffalo, N. Y., assignor to Buffalo Specialty Company, Buffalo, N. Y., a Corporation of New York. Filed Mar. 27, 1920. Serial No. 369,189. 7 Claims. (Cl. 15—229.)



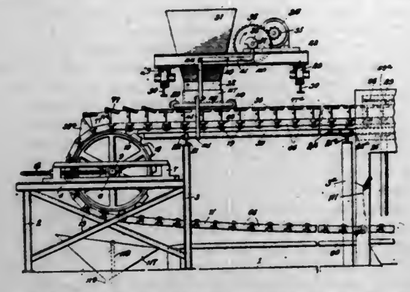
1. A connector of the kind described, comprising a socket portion adapted to receive a handle and having a slit formed longitudinally therein and gradually widened toward one end, a pair of integral clamping members projecting from said socket portion, and a clamping device to draw said clamping members toward each other and simultaneously clamp said socket portion on said handle.

1,453,746. PROCESS OF MAKING CONCRETE BLOCKS. WILLIAM H. CAREY, Wisconsin Rapids, Wis. Filed Apr. 15, 1922. Serial No. 552,979. 10 Claims. (Cl. 25—155.)



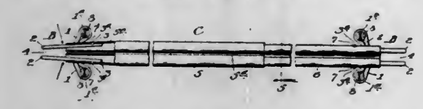
1. That process of making concrete blocks which consists in filling molds with concrete mixture, packing the mixture into a compact mass therein and subsequently conveying the filled molds into a closed compartment and subjecting the concrete while still in the molds to the action of artificial heat for curing the same.

1,453,747. MACHINE FOR MAKING CONCRETE BLOCKS. WILLIAM H. CAREY, Wisconsin Rapids, Wis. Filed Apr. 15, 1922. Serial No. 552,980. 96 Claims. (Cl. 25—99.)



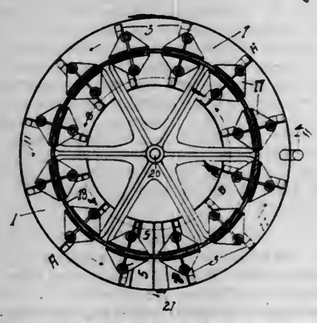
1. In a machine for making concrete blocks, a traveling carrier having molds, a hopper mounted above the molds and adapted to fill the same, means for jarring and ramming the concrete in the molds, a closed chamber into which the traveling carrier with the molds are admitted for curing the blocks, means for supplying the chamber with steam, means for causing the contraction of the molds after leaving said chamber, and means for picking the cured bricks from the open molds of the traveling carrier.

1,453,748. CURTAIN ROD. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 19, 1920. Serial No. 425,191. 5 Claims. (Cl. 156—19.)



2. A curtain rod bracket comprising a wire having its intermediate portion forming a base portion provided with attaching eyes, having curved members extending from the base portion and forming a curved body portion, and having said members extended parallel with the base portion and affording resilient arms, said arms being provided with lateral lugs adapted to engage recesses in the socket of a curtain rod.

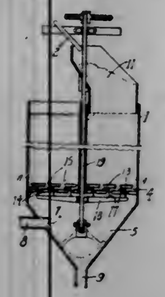
1,453,749. APPARATUS FOR THE DEWATERING, CLASSIFICATION, AND COUNTERCURRENT WASHING OF SOLID PARTICLES MIXED WITH LIQUIDS. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed Jan. 3, 1921. Serial No. 434,606. 22 Claims. (Cl. 23—31.)



3. The apparatus for dividing a mixture of solid particles and a liquid into separate different parts, which

consists of a number of similar sectors of an annular trough arranged in a ring with similar parts in the same order around the ring and each one of which sectors is closed at one end only and has a bottom which slopes upward around the circle from a lower level adjacent to said closed end to a higher level at the open end so as to contain a body of liquid in the sector adjacent to said closed end and has an outflow device in last said sector arranged to maintain the surface level of a body of liquid therein below said upper end of said bottom, together with radial scrapers arranged to continuously move horizontally around an annular path substantially parallel to and in horizontal projection within said ring in a direction from said closed ends toward said open ends of said sectors and arranged to move vertically in such a manner as to dip into each one of said sections of trough in the lower portion thereof adjacent to said closed end and to maintain a position slightly above the bottom of said trough in moving towards said open end so as to drag material settled out of a body of liquid in above said lower portion of trough up over said sloping bottom and out of said sector of trough at its open upper end, and means for feeding such above said mixture into each of said sectors.

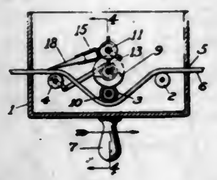
1,453,750. APPARATUS FOR DRYING GRANULAR PRODUCTS. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed Mar. 8, 1921. Serial No. 450,679. 8 Claims. (Cl. 34—34.)



6. The apparatus for continuously drying grains and granular material which consists of a vertical shaft for containing a bed of such above said material, said shaft being closed at the bottom, means for continuously feeding such above said material onto such above said bed in said shaft and means for maintaining the top of a such said bed substantially level, a discharging device in said shaft above said closed bottom arranged to support a such above said bed and arranged to allow the passage of a current of gaseous medium up through said device in such a manner that said current of gaseous medium will be substantially uniformly distributed over the entire horizontal section of said bed and arranged to continuously discharged such above said material from the bottom of such above said bed in such a manner as to secure a substantially continuously uniform downward movement of the material in all parts of said bed, means for continuously introducing a current of gaseous medium under pressure into the closed space beneath said discharge device, and means for continuously removing the such above said material removed from the bottom of such above said bed from the lower part of said apparatus.

1,453,751. RAZOR-STROPPING MACHINE. ERNEST D. CLARK, Worcester, Mass. Filed Jan. 5, 1921. Serial No. 435,179. 5 Claims. (Cl. 51—153.)

1. In a razor stropping machine, the combination with a strop, and a blade holder longitudinally movable thereon, of means for imparting transverse movement to said blade holder always in the same direction across the strop as said holder is moved back and forth in



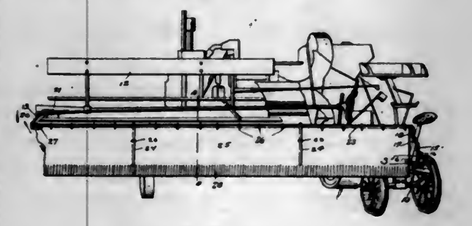
engagement with the strop, whereby resulting diagonal movements of said holder on the strop are in different paths.

1,453,752. FOOD COMPOUND AND PROCESS OF PRODUCING THE SAME. HAROLD E. COLLVER, Simcoe, Ontario, Canada, and CHARLES R. MABEE, Buffalo, N. Y. Filed Oct. 5, 1917. Serial No. 194,970. 8 Claims. (Cl. 99—11.)

2. A semi-solid colloidal mass, consisting of cabbage from which a substantial portion of the water content has been removed, and to which a milk product and a flavoring product has been added, and a protecting covering of fat.

6. The process of producing an improved food compound, which consists of cooking cabbage, separating the cabbage from the cooking water, compressing the cabbage to separate the cabbage juice from the cabbage pulp, condensing the cooking water and cabbage juice to a high consistency by removing a substantial portion of the water content, adding a milk product to the condensed product, and thereafter, while in a heated condition, adding thereto the cabbage pulp and thoroughly comingling the particles of the mass to form when cooled a semi-solid mass.

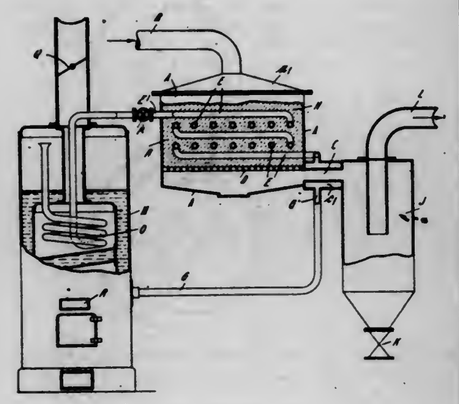
1,453,753. HARVESTER THRASHER. ALBERT CONVERSE, Pampa, Tex. Filed May 25, 1921. Serial No. 472,323. 5 Claims. (Cl. 56—1.)



1. The combination with a harvester thrasher, of supports carried by the harvester, and a curtain carried by the supports and having its lower edge disposed at substantially the same height as and in advance of the sickle of the harvester.

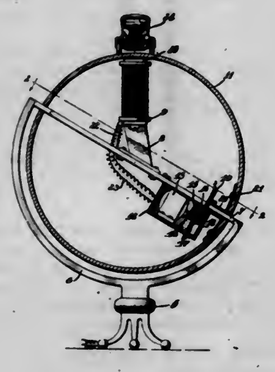
1,453,754. APPARATUS FOR GAS PURIFICATION. KENNETH COX, Putney, London, ROBERT PRICE KERR, Gateshead-upon-Tyne, and ERNEST JOCELYN BATY, Luton, England. Filed Mar. 3, 1923. Serial No. 622,684. 1 Claim. (Cl. 23—10.)

In apparatus for purifying gas by the removal of sulphur compounds and for the recovery of sulphur, the combination of;—a containing vessel having an inlet for the gas to be treated and an outlet for the treated gas; a bed of contact material arranged across the path of flow of the gas from the inlet to the outlet; hollow heat exchanging surfaces embedded in the said material; means for supplying an attemperating fluid to the interior to the heat exchanging surfaces; means for separating the sulphur from the effluent gas; a passageway connecting the outlet from the vessel to the inlet of the



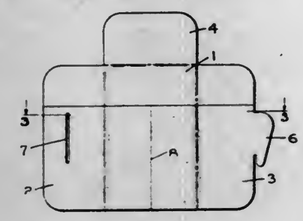
said separating means; and a jacket space surrounding the said passageway through which the attemperating liquid is circulated.

1,453,755. ADVERTISING DEVICE. THOMAS G. CRAVER, Mount Hope, W. Va., assignor of one-fourth to M. L. Parker, Mount Hope, W. Va., and one-fourth to Lem Dougless, Scarboro, W. Va. Filed Oct. 6, 1922. Serial No. 592,744. 1 Claim. (Cl. 40—126.)



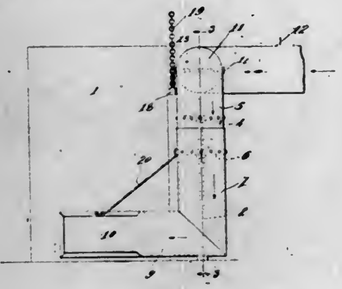
In a device of the character described, a globe, a support for the globe, said support including hollow curved arms, a hollow shaft connected with the curved arms, said globe having openings to receive the hollow shaft, a tubular shaft surrounding the hollow shaft and secured to the inner surface of the globe, a gear secured to the inner surface of the globe, a housing supported by the hollow shaft, a motor in the housing, gearing in the housing and in mesh with the first mentioned gear to revolve the globe, an electro-magnet supported by the hollow shaft, the attracting end thereof being disposed in proximity to the inner wall of the globe, and an article positioned on the outer surface of the globe to be attracted by the electro-magnet.

1,453,756. HAIRPIN CONTAINER. EDWARD B. DEWEY, Washington, D. C. Filed Jan. 25, 1921. Serial No. 439,729. 4 Claims. (Cl. 229—87.5.)



1. A foldable container of the character described, formed of a blank of suitable material having one portion folded back upon itself and fastened at its sides to the other portion so as to form a pocket therebetween; a flap on the opposite end thereof adapted to be folded toward the top end of said pocket; a flap at one side of said pocket adapted to be folded over the pocket; a flap at the other side of the pocket adapted to be folded over the pocket; and means for detachably attaching the side flaps together when folded, substantially as described.

1,453,757. DRAFT REGULATOR. FREDERICK C. EVANS, Ithaca, N. Y. Filed Nov. 26, 1921. Serial No. 517,932. 3 Claims. (Cl. 110—72.)

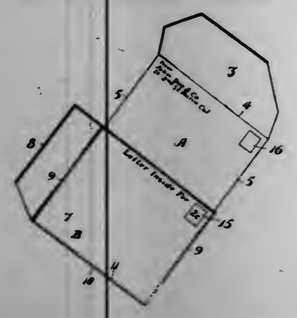


1. The combination with a furnace having an opening communicating with the ash pit thereof, of a supporting standard arranged adjacent the furnace, a rotatable tubular member mounted upon the standard having a horizontal projection, a housing at the outer end of the projection normally closing the opening in the furnace, an outlet pipe communicating with the rotatable member, an inlet pipe having communication with the main outlet pipe at a point adjacent the rotatable member and means located within the outlet pipe and manually operated for controlling the passage of air from the inlet pipe to the furnace through the rotatable member and between the inlet pipe and the outlet pipe, as and for the purpose specified.

1,453,758. ENVELOPE. ALAN D. FIELD, Oakland, Calif., assignor to The Field-Ernst Envelope Co., San Francisco, Calif., a Partnership. Filed Dec. 21, 1921. Serial No. 523,812. 3 Claims. (Cl. 229—72.)

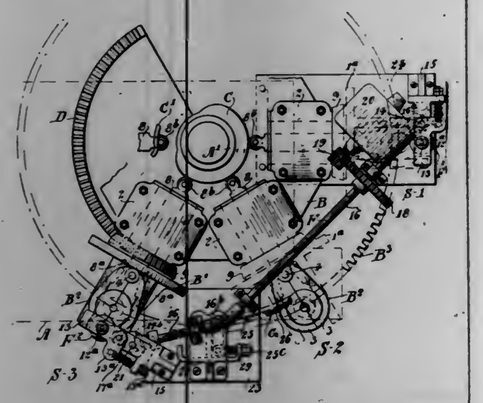
1. An envelope of the character described having a comparatively large rectangular shaped compartment formed therein for the reception of printed matter less than first class, and a comparatively small rectangular shaped letter compartment formed on the front of the large compartment and at the lower end thereof, a flap

on one end of the envelope foldable over the rear thereof and adapted to close the large compartment, and a flap



formed on the side of the envelope and also foldable over the rear side thereof to form a closure for the small compartment.

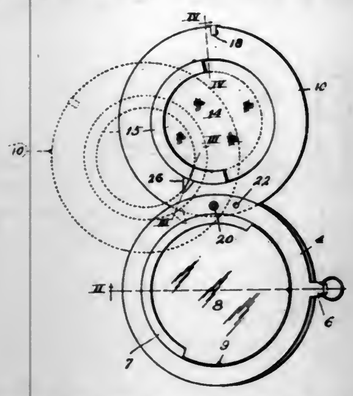
1,453,759. MACHINE FOR MAKING BOTTLES, ETC. WARREN E. GLASPEY, Bridgeton, N. J., assignor to Spring Stopper Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 8, 1921. Serial No. 520,978. 15 Claims. (Cl. 49—36.)



12. In a machine of the character set forth the combination of a rotary mold table, a series of independently rotatable mold-supports carried thereby, molds mounted on said mold-supports, nuts mounted on said mold-supports beneath said molds, threaded tubular mandrels working through said nuts and having tip portions equipped with threads, gear elements mounted on the lower portions of said mandrels, a bubble blow-head located beneath the path of said mandrels and adapted to be elevated to admit air through the mandrels, and local gear devices located at different stations, one of said gear devices serving to elevate the mandrels and the other serving to lower the mandrels.

1,453,760. COMBINATION MIRROR AND TELEPHONE MOUTHPIECE. JOHN HAUENSTEIN, Kansas City, Mo. Filed Dec. 31, 1921. Serial No. 526,310. 2 Claims. (Cl. 179—185.)

2. A device of the character described, consisting of two circular members spaced apart and united by a peripheral connection, an annulus mounted to swing between and be held in outward position by frictional engagement with said circular members, a screen covering the opening in said annulus, and clips on the annulus



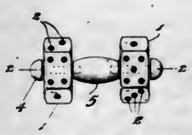
for engaging the two circular members to reliably secure said annulus when swung inward between the two circular members.

1,453,761. COMBINATION EGG BEATER AND CREAM REMOVER. WILLIAM F. LANGE, Elgin, Ill. Filed Oct. 9, 1922. Serial No. 593,270. 12 Claims. (Cl. 259—27.)



1. A device for the purpose specified, comprising a tubular casing open at top and bottom, and a tubular plunger slidably mounted in said casing and adapted to be reciprocated therein, and to be closed at the top by the thumb of the operator, substantially as described.

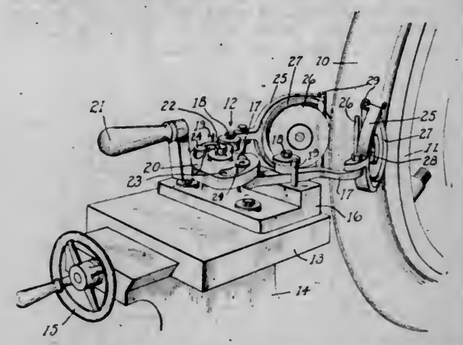
1,453,762. DICE. HARRY D. MOSAUER, New York, N. Y., and LEON LAUB, Newark, N. J. Filed Oct. 15, 1921. Serial No. 507,972. 1 Claim. (Cl. 46—36.)



In a device of the character described, the combination of a pair of independently rotatable dice members having relatively short axes compared to their diameters, a connector having ends adjacent the said dice members, said ends having relatively short diameters compared to the diameters of said dice members, whereby

said dice members may rotate freely with minimum friction; and means on said connector rotatably supporting said dice members through said axes.

1,453,763. TIRE-MAKING MACHINE. JOHN M. MYLROIE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 28, 1919. Serial No. 313,958. 16 Claims. (Cl. 154—10.)

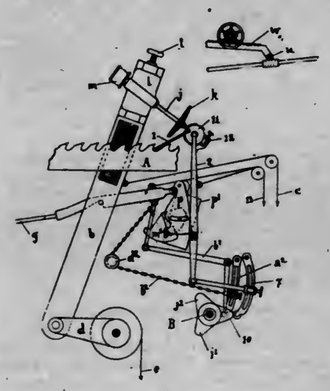


1. In an apparatus of the character described, a stitcher bearing element, a stitcher member revolubly mounted on said element, a guiding core-engaging member also mounted on said element, and means for pivotally supporting said element, the axis of the pivot extending intermediate the stitcher member and guiding member.

1,453,764. LIQUID FOR TREATING FABRICS. ALBERT NEUSELLA, Chicago, Ill., assignor of one-half to Arthur A. Patterson, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,446. 2 Claims. (Cl. 134—19.)

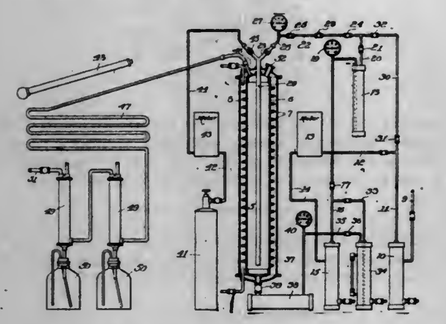
2. A liquid for treating articles of fabric materials comprising acetone 100 parts, cellulose triacetate 6 parts, a plasticing agent 3 parts, castor oil one-fourth to one-half part, zinc white and lithopone, 3 parts, and barium sulphate one-half part.

1,453,765. AUTOMATIC MACHINE FOR GRINDING THE SAW BLADES WITH REVOLVING GRINDING WHEELS. ANATOLE OCTAVE, Herblay, France. Filed Mar. 30, 1921. Serial No. 456,980. 8 Claims. (Cl. 76—42.)



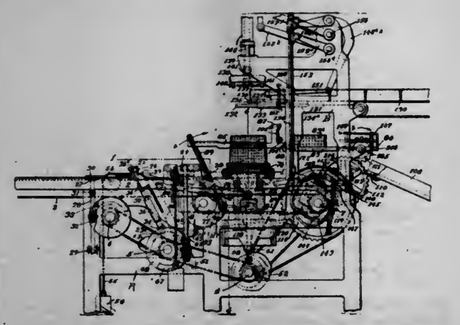
1. A machine for automatically sharpening saws, which comprises a movable frame, a grinding wheel thereon, means to move said frame and wheel to cause the wheel to follow and grind the under side of a saw tooth, means to then move said frame and wheel to cause the latter to follow the contour of and grind the other side of said tooth and its end, and means to thereafter step the saw one tooth preparatory to grinding the next tooth, whereby said grinding is effected without shaping the grinding wheel to the contour to be ground.

1,453,766. CATALYST AND METHOD OF MAKING THE SAME. ELMER H. PAYNE and SAMUEL A. MONTGOMERY, Woodriver, Ill., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Aug. 18, 1920. Serial No. 404,318. 8 Claims. (Cl. 260—160.)



1. The process of preparing a catlytic material which consists in passing chlorine thru a hydrocarbon material while maintaining a temperature of about 300° F. and continuing such passage of chlorine to the formation of a coal-like solid mass.

1,453,767. SUGAR-PACKING MACHINE. CHARLES C. REESE, San Francisco, JOSEPH T. BUZZO, Oakland, and ROBERT S. WOODFORD, Crockett, Calif. Filed Sept. 7, 1920. Serial No. 408,489. 33 Claims. (Cl. 226—14.)

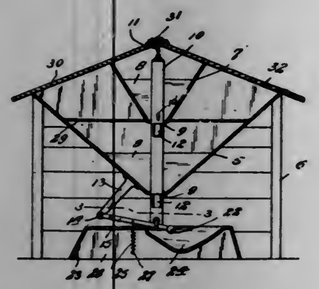


1. In a machine of the character described, a feeding belt adapted to continuously deliver a single layer of sugar cubes, means cooperating with the belt adapted to form separated blocks of sugar each containing a predetermined number of cubes, means for removing the blocks from the belt in successive order, and means for stacking the blocks in superposed layers.

1,453,768. ANIMAL-CONTROL FEEDER. WILLIAM T. ROBBINS, Mayfield, Ky. Filed Jan. 16, 1923. Serial No. 612,941. 3 Claims. (Cl. 119—54.)

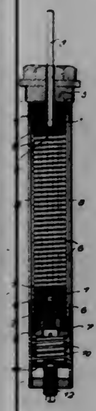
1. In an animal feeder of the class described including a main and auxiliary feed hopper, spaced alined open-

ings within the bottom wall of the hoppers, a vertically movable hollow feed pipe disposed within these openings, inlet openings within said pipes and normally disposed



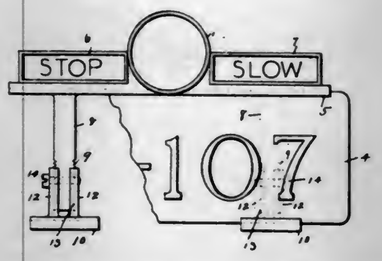
beneath the bottom walls of said hoppers and animal controlled means for moving said pipes vertically for permitting the discharge of the feed from the hoppers into a trough beneath the lower ends of said feed pipes.

1,453,769. THERMOSTAT. HERMANN SANDVOSS, Frankfort-on-the-Main, Germany. Filed Aug. 29, 1921. Serial No. 496,565. 1 Claim. (Cl. 297—8.)



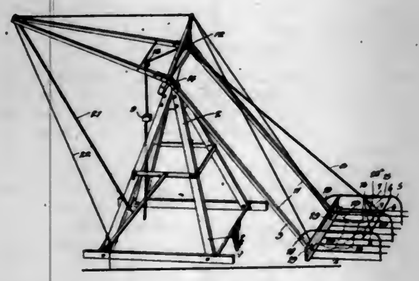
A thermostat of the character set forth, comprising in combination, an accordion member of relatively small diameter and narrow individual corrugations in close relation, and an accordion member of substantially larger diameter and respectively larger individual corrugations spacedly surrounding the first said accordion member, a fluid-tight joint between the two said accordion members at one end, a fluid-tight closure at the other end of said larger accordion member somewhat below the respective extremity of said inner member, a piston head forming a fluid-tight closure at the relatively shortened accordion member end, an expansible fluid within the space formed between said two accordion members and the said closures at either end thereof, a piston rod in rigid connection with said piston head and extending through said inner accordion member and out beyond the respective fluid-tight joint between the said two accordion members, an apertured protective casing spacedly surrounding said outer accordion member, and safety means for compensating excessive pressure in said expansible fluid, comprising a fixed bottom in said casing, a screw bolt centrally threading therein, a washer in said casing adapted to be axially displaced therein by said screw bolt, and said fluid-tight closure at the free end of said larger accordion member adapted for axial sliding displacement within said protective casing in close guiding contact therewith, and resilient means interposed between said larger accordion member and said bolt-operated washer.

1,453,770. COMBINED LICENSE-PLATE, TAIL-LIGHT, AND SIGNAL-LIGHT BRACKET. ROLAND SHIELDS, Baltimore, Md. Filed Mar. 21, 1922. Serial No. 545,489. 2 Claims. (Cl. 40—131.)



1. The combination of a metal piece having a groove in its lower surface and two downwardly-projecting arms each provided with teeth on their opposite edges, a rest on each of said arms each having a groove therein and teeth on their inner surfaces adapted to co-operate with the teeth on the said arms, and means to hold the said rests in position on said arms.

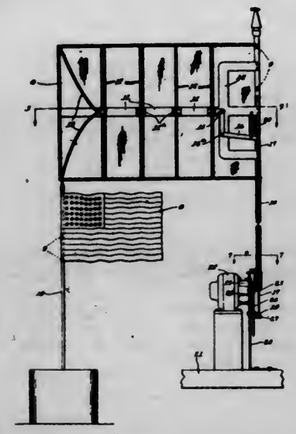
1,453,771. AUTOMATIC RETAINER FOR HAY-STACKERS. LEWIS B. TAYLOR, Gooding, Idaho. Filed Mar. 22, 1920. Serial No. 367,810. 8 Claims. (Cl. 214—144.)



1. A derrick comprising a pivoted beam with a carrier, a pivoted retainer for holding material on said carrier, and means for disengaging said retainer automatically upon a predetermined change in position of said carrier, said means including a counterweight of predetermined weight connected with the retainer by means of a cable and a pulley adjacent the pivot of the beam for directing the cable.

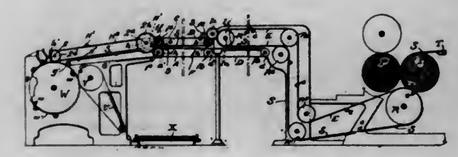
1,453,772. MECHANICAL FLAG WAVING DEVICE. SAMUEL TRACHTENBERG, Cleveland, Ohio. Filed Apr. 10, 1922. Serial No. 551,415. 8 Claims. (Cl. 116—175.)

6. The combination of a hollow flag staff, a flexible flag casing attached thereto, a series of hinged arms supported on the staff and projecting outwardly within the casing, and means extending through the staff and connected to



said arms to swing the same on their hinges, and means carried by said arms to distend the flag casing, including rods projecting from the arms at the hinge joints thereof.

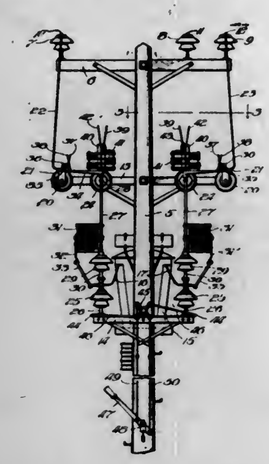
1,453,773. MECHANISM FOR TRANSFERRING AND TIMING SHEETS. BURT FROST UPHAM, Brookline, FRANK R. BELLUCHE, Mansfield, and KURT F. HORNIG, Amesbury, Mass., assignors to United Printing Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed June 21, 1920, Serial No. 390,500. Renewed July 16, 1921. Serial No. 485,401. 43 Claims. (Cl. 271—50.)



5. In mechanism of the character specified; a first means for operating upon sheets; and means for delivering sheets therefrom; a second means for operating upon sheets, and means for feeding sheets thereto; with sheet transferring mechanism receiving sheets from the said delivery means and moving them toward the said feeding means; said transferring means operating at approximately twice the speed of the second sheet operating means; and means adapted to retard the movement of the sheets upon the transferring means.

1,453,774. HIGH-TENSION CUT OUT SYSTEM AND THE LIKE. FRANK C. VAN ETTEN, Chicago, Ill., assignor to Delta-Star Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 9, 1920. Serial No. 350,269. 7 Claims. (Cl. 175—30.)

7. A high-tension cut-out station comprising in combination a rod or the like, a pivotal insulating support therefor permitting said rod to rotate only on a vertical axis, an axially extending lightning arrester horn on one end of the rod and rotating therewith, a stationary lightning arrester horn adjacent to the lightning arrester horn aforesaid, an outstanding contact arm swinging with the rotations of the rod, a stationary contact in position to be engaged by said contact arm, a suitable insulating support for the stationary contact, means for



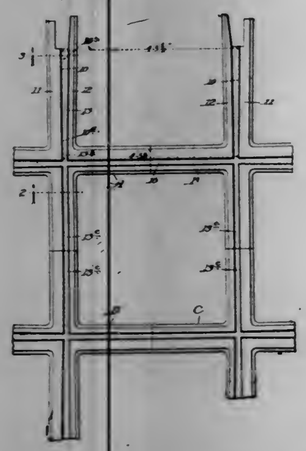
rotating the arm on its pivotal mounting, and means for insulating said rotating means from the rod, substantially as described.

1,453,775. WINDOW SHADE. WILLIAM E. WHITEHURST, Midville, Ga. Filed Oct. 10, 1922. Serial No. 593,509. 3 Claims. (Cl. 156—10.)



3. In a window shade, rollers mounted at the top and center, respectively, of the window frame, an endless shade section on said rollers, a second shade section secured to the inner run of the first mentioned section at one end thereof, a pull ring secured to the outer run of said endless shade section at the relatively opposite end thereof, antifriction bearing members supporting the ends of each of said rollers, each bearing member comprising a circular head formed with an opening on its inner side and with a counter-sunk depression at the center of the inner wall of said opening and a disk-like enlargement adjacent to the end of said roller engaging in said opening, the end of said roller being circumferentially reduced and fitting into said depression and antifriction bearing members between said disk-like enlargement and the wall of said opening.

1,453,776. RAILROAD CROSSING. GEORGE T. WISWELL, Evanston, Ill., assignor to The Wiswell Improved Railroad Crossing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1923. Serial No. 618,925. 2 Claims. (Cl. 246——457.)



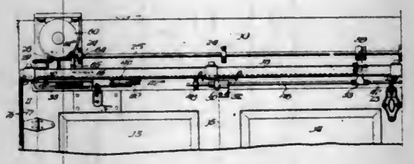
1. A railroad crossing comprising two main rails crossing each other, guide rails inside said main rails and parallel thereto, a groove between each main rail and its guide rail, said groove near its bottom having ledges adapted to contact the sides of the flanges of the wheels running over the crossing, said grooves being inclined upwardly as the crossing is approached so as to raise the wheels clear of the main rails at the point of crossing

1,453,777. HOUSEHOLD UTENSIL. ARTHUR ZIMMERMAN, Brooklyn, N. Y. Filed Feb. 8, 1922. Serial No. 535,111. 6 Claims. (Cl. 132—29.)



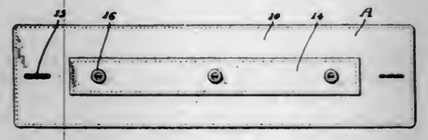
1. A device of the character described comprising a fabric portion for cleansing purposes, and a resilient handle removably attached thereto adjacent the corners whereby the fabric portion is placed under transverse tension.

1,453,778. DOOR-OPENING MECHANISM. HARRY A. ADAMS, Danville, Ill., assignor to Allith-Prouty Company, Danville, Ill., a Corporation of Illinois. Filed June 2, 1917. Serial No. 172,362. 28 Claims. (Cl. 268—9.)



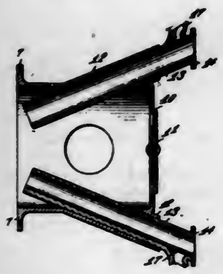
1. In a device for operating folding doors, the combination with a doorway, of hinged folding doors mounted therein, a track across the top of said doorway, hangers on said doors cooperating with said track, an electric motor for opening and closing said doors, and other means operated by said motor for locking said doors when in closed position.

1,453,779. SHIRT SLEEVE WITH DETACHABLE CUFF. ARTHUR C. ALTENBURG, Milwaukee, Wis. Filed Oct. 27, 1921. Serial No. 510,731. 6 Claims. (Cl. 2—79.)



1. A detachable cuff comprising an elongated cuff body having cuff button receiving openings formed adjacent the terminals thereof at the longitudinal center of the body, and a plurality of connecting members carried by said body at the longitudinal center thereof, certain of said connecting members adjacent to said button holes.

1,453,780. BURNER. DELANEY ARKWRIGHT, Jr., Newton Falls, Ohio. Filed Feb. 24, 1922. Serial No. 538,927. 1 Claim. (Cl. 110—104.)

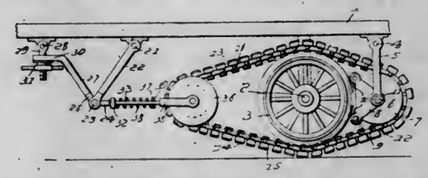


In combination with a furnace, a body portion in communication with the furnace, a fuel supply pipe in communication with the body portion, pipes extending at angles with respect to the body portion and having their outer ends disposed in a plane beyond one end of the body portion, angularly disposed air delivering pipes positioned in the first mentioned pipes and adjustable longitudinally thereof, and having their delivering ends disposed towards each other, and terminating at points in spaced relation with the fuel supply pipe.

1,453,781. PROCESS OF PEELING FRUITS AND VEGETABLES. CHARLES S. ASH, San Francisco, Calif., assignor to California Packing Corporation, San Francisco, Calif., a Corporation of New York. Filed Sept. 19, 1922. Serial No. 589,241. 4 Claims. (Cl. 146—14.)

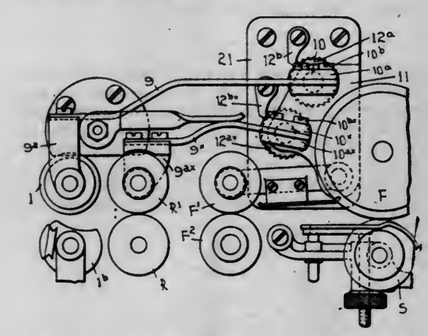
4. A process of peeling fruits and vegetable products consisting of exposing the products to the action of a corrosive acid and neutralizing the acid by the use of an alkaline solution substantially as described.

1,453,782. TRACTOR APPLIANCE FOR TRUCKS. JOHN THOMAS BELL, Redford, Mich. Filed June 18, 1921. Serial No. 478,554. 3 Claims. (Cl. 305—3.)



1. The combination with a vehicle having a drive wheel, of an endless tractor chain engaging the drive wheel at diametrically opposite portions, a spring retracted wheel mounted upon the vehicle forward of the drive wheel and over which the chain passes, a wheel yieldably mounted upon the vehicle rearward of the drive wheel and around which the chain passes, and thrust rollers associated with the last named wheel and bearing against the periphery of the drive wheel.

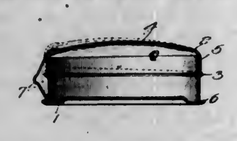
1,453,783. YIELDABLE SUPPORT FOR ROLLERS OF POSTMARKING AND STAMP-CANCELING MACHINES. WALTER H. BOWES, Stamford, Conn. Original application filed May 13, 1921, Serial No. 469,305. Divided and this application filed Nov. 18, 1921. Serial No. 516,120. 7 Claims. (Cl. 101—407.)



1. In mechanism of the character specified, the combination of a printer, a coacting impression roller, a bracket carrying the roller, a flat spring carrying the bracket at one end, a rock shaft to which the other end of the spring is attached, and a helical spring having one end connected with the shaft and the other end to a relatively fixed support, whereby the flat spring is caused to hold the roller yieldingly in position.

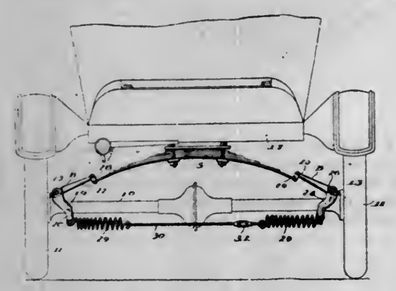
1,453,784. RECEPTACLE. COURTLAND J. CRAWLEY, Chicago, Ill. Filed Nov. 28, 1921. Serial No. 518,443. 2 Claims. (Cl. 220—43.)

1. In a device of the kind described and in combination, a container, a cover therefor, said container having a circumferentially-extending bead spaced downwardly of the open end against which bead said free end of the cover is adapted to abut when the box is closed, and a flexible spring strip secured to the top of one of said members and projecting downwardly of the side thereof, said container having a peripheral bead thereon adapted to abut the free end of said spring, said spring having an



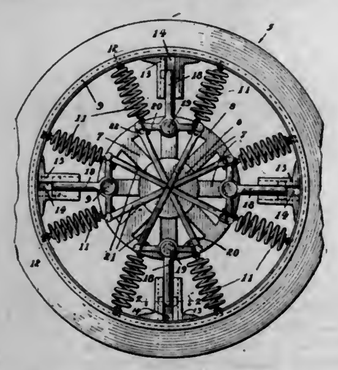
outwardly-extending projection therein adapted to overlie said first-mentioned bead when said spring is pressed inwardly into contact with said cover and container to separate said members.

1,453,785. SHOCK ABSORBER FOR MOTOR VEHICLES. JUAN OLIVEROS DELGADO, El Paso, Tex. Filed Apr. 4, 1922. Serial No. 549,552. 2 Claims. (Cl. 267—17.)



1. In an apparatus of the character described, in combination, an axle, a bell crank lever comprising a casting including a hub portion terminating at each end in a radially extending arm, said arms being disposed at an angle to each other, and said hub portion being substantially semi-circular in shape adjacent its one end, a perch secured to the axle and extending upwardly therefrom, said perch having a head adapted to fit within the semi-circular portion of the bell crank hub, and means for pivotally connecting the perch to said hub portion of the bell crank lever.

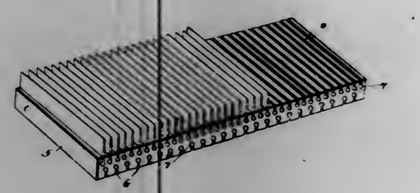
1,453,786. RESILIENT WHEEL. GEORGES ARTHUR DUFRESNE, Trois Rivieres, Quebec, Canada. Filed June 13, 1921. Serial No. 477,224. 3 Claims. (Cl. 152—38.)



2. The herein described resilient wheel, comprising an inner and an outer rim, a hub formed upon the inner

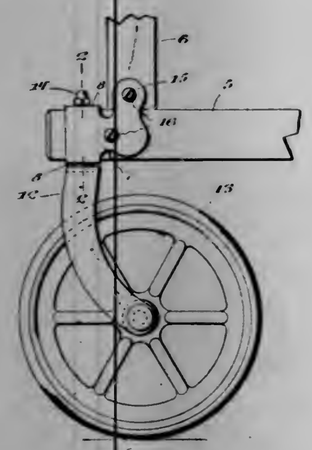
rim, a tire carried by the outer rim, springs connecting said rims, bars pivoted to the inner rim and extending outwardly therefrom, guides secured to the outer rim, said guides having channels formed therein, heads formed upon the bars slidable within the channels, rock arms upon the inner ends of said bars, and links connecting the rocker arms upon opposite sides of the inner rim, substantially as and for the purposes set forth.

1,453,787. APPARATUS FOR SETTING RULE FORMS. CARROLL JOHNSON FARRAR, Kirkwood, Ga., assignor of one-half to B. W. Farrar, Summerville, Ga. Filed Dec. 27, 1921. Serial No. 524,902. 3 Claims. (Cl. 101—400.)



1. A reversible rule base having retaining means on opposite sides thereof adapted to maintain rules engaged with one side spaced apart a distance greater or less than that maintained between rules engaged with the opposite sides.

1,453,788. BRACKET. ABRAHAM G. FELDMAN, Chicago, Ill. Filed Mar. 31, 1922. Serial No. 548,510. 3 Claims. (Cl. 280—49.)



1. In a bracket for connecting two angularly disposed members, the combination of a U-shaped portion for the reception of one of said angularly disposed members the sides of said U-shaped portion and the angularly disposed member enclosed thereby being transversely apertured to form a bearing, a rotatable stem carried in said bearing, said stem preventing displacement of said member from said U-shaped portion, and an integral offset portion carried by said U-shaped portion for securing the other angularly disposed member.

1,453,789. PREPARATION OF PURE SELENIUM OXYCHLORIDE. GAIL J. FINK, Niagara Falls, N. Y., and EDMUND DUNCAN GIAUQUE, Niagara Falls, Ontario, Canada, assignors to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1921. Serial No. 440,404. 2 Claims. (Cl. 23—10.)

1. Method of refining crude selenium oxychloride which consists in distilling the same in an atmosphere containing an excess of chlorin.

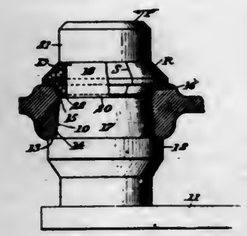
1,453,790. CRUTCH ARMREST. JOHN B. GLOWACKI, Chicago, Ill. Filed July 3, 1920. Serial No. 393,792. 2 Claims. (Cl. 135—52.)



1. A crutch arm rest, comprising a body portion having grooves therein, a resilient cushion engaged over the body portion, and inwardly directed ridges on the cushion engaged in the grooves in the body portion.

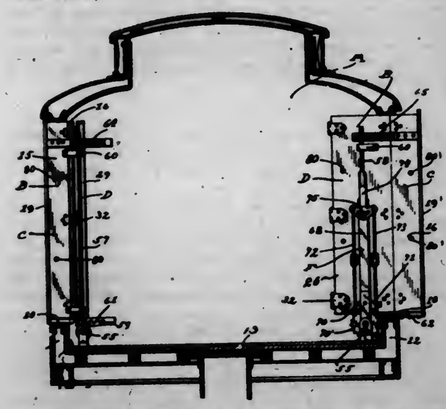
2. A crutch arm rest comprising a body portion, a cushion thereon, and projecting fasteners securing said body portion to the remainder of the crutch, each of said fasteners having a head by which a cover may be detachably held in place over said cushion.

1,453,791. POST AND COVER CLAMP AND SEAL. WALTER E. GOSSLING, New York, assignor, by mesne assignments, to The Prest-O-Lite Co., Inc., Indianapolis, Ind., a Corporation of New York. Filed July 30, 1920. Serial No. 400,012. 11 Claims. (Cl. 214—29.)



1. A post and cover clamp and seal for storage batteries comprising, in combination, a cell cover having an opening therethrough, a storage battery terminal post extending through said opening and having an integral shoulder thereon above the upper side of said cover, and securing means bearing against the upper side of said cover and against said shoulder and interlocking said post and said cover against separating movement and clamping them in sealing relation with one another.

1,453,792. ARMAMENT FOR MAIL AND EXPRESS CARS. ERNEST ALBION GROSS, Lamoille, Minn. Filed May 24, 1922. Serial No. 563,208. 9 Claims. (Cl. 105—304.)



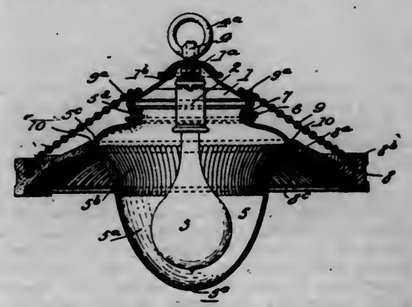
1. The combination with a railroad car, of an armament device therefor including a bullet proof box slidably associated with the car for moving exteriorly and interiorly thereof.

1,453,793. ELECTRICAL CONNECTION. VICTOR C. HAMISTER, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed June 30, 1921. Serial No. 481,648. 3 Claims. (Cl. 171—326.)



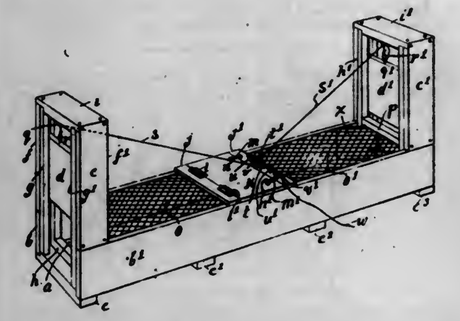
1. In combination, a block or prism having a cavity therein, a conductor having a portion within said cavity, compacted conducting material within said cavity electrically connecting said brush and said conductor, and a seal of a hard phenolic condensation product arranged to retain said compacted material in place.

1,453,794. ELECTRIC-LIGHT FIXTURE. JOHN WALLACE HANCOCK, Denver, Colo. Filed Apr. 18, 1922. Serial No. 554,631. 1 Claim. (Cl. 240—78.)



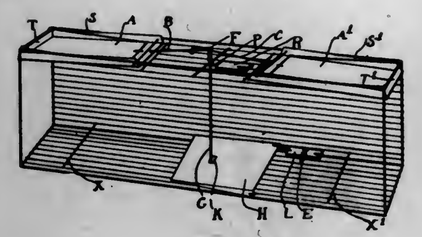
A lighting fixture including a globe holder suspended from a ceiling, a translucent globe secured thereto, lighting means within the globe, an opaque reflector of relatively small height surrounding said globe and spaced therefrom, said globe projecting above and below said reflector whereby diffused light is thrown on the ceiling by that portion of the globe above the reflector, and diffused light from that portion of the globe below the reflector is reflected downwardly toward the floor, the relatively small height of the reflector allowing light rays to meet on each side thereof, whereby shadows from the reflector are dispelled, said reflector being supported from the globe holder.

1,453,795. ANIMAL TRAP. THOMAS MARK HOVELL, Elstree, England. Filed Aug. 31, 1921. Serial No. 497,278. 1 Claim. (Cl. 43—61.)



A trap comprising a frame including two side boards; slide doors vertically slidable at each end of said frame and having cords secured thereon; cross bars secured at the center of said frame intermediate the slide doors; a door hinged on one of said cross bars and adapted to latch on said other cross bar; eyelets secured to the last named cross bar; and a pin adapted to slide in said eyelets and be associated with said cords in order to control said doors.

1,453,796. ANIMAL TRAP. THOMAS MARK HOVELL, Elstree, England. Filed Aug. 31, 1921. Serial No. 497,279. 1 Claim. (Cl. 43—61.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

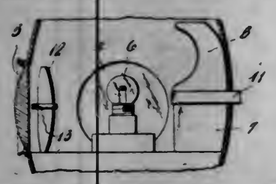


An animal trap comprising a wire frame; pivotally mounted doors secured at the top of and near the ends of said frame; a lever pivoted at the top of said frame, and midway between said doors, said lever having a counter weight thereon; guards pivotally secured at the top of and at the ends of said frame, the free end of said guard being adapted to be associated with said doors; rods on said doors for association with said lever; and means for releasing said lever so that said doors will drop and said guards will lock the doors in place.

1,453,797. PROCESS OF OBTAINING SOLUBLE POTASSIUM COMPOUNDS IN THE MANUFACTURE OF CEMENT. FREDERICK W. HUBER, Riverside, Calif., assignor, by mesne assignments, to Western Precipitation Company, a Corporation of California. Filed Dec. 15, 1917. Serial No. 207,367. 5 Claims. (Cl. 23—22.)

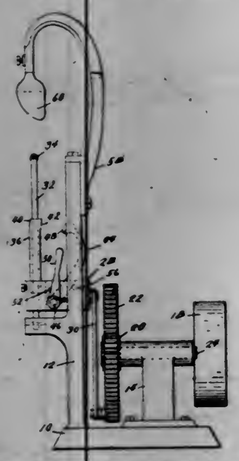
1. A process of producing water-soluble potassium salts which comprises burning a potassiferous cement-making raw mix, and collecting flue dust containing potassium compounds not readily soluble in water, producing therefrom a mixture containing such not-readily-soluble-potassium compounds, and calcareous material having a $CaO:SiO_2$ ratio of not less than 2:1, and containing carbonaceous material of a reducing character, at least about equal in amount to the K_2O content, and heating the mixture, to a temperature of at least 600° C., but below the temperature at which any large part of the potassium compounds would be volatilized, and thereafter extracting the readily soluble potassium compounds therefrom.

1,453,798. LANTERN. CHARLES J. JENSEN, North Plainfield, N. J. Filed Mar. 27, 1922. Serial No. 547,197. 1 Claim. (Cl. 240—11.)



In a lantern comprising a housing having windows in the front and side walls thereof, lenses positioned in each of said windows, a main reflector immovably positioned within the housing adjacent its rear wall intermediately of said side windows and in direct alignment with the front window, said reflector comprising a body substantially V-shaped in cross section in its lower portion and having one face of the upper portion thereof vertically curved and extending throughout its width at substantially right angles to the V-shaped lower portion of the same, and secondary reflectors fixedly secured within the housing at points in proximity to the opposite sides of the lenses in the front wall thereof.

1,453,799. SHOE-TURNING MACHINE. EUCLID I. LA CHAPELLE, Brockton, Mass. Filed Mar. 27, 1920. Serial No. 369,311. 27 Claims. (Cl. 12—57.)

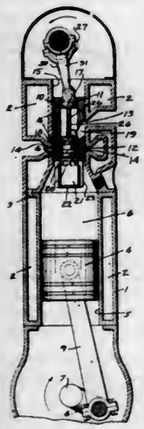


1. A shoe turning machine, having, in combination, a plurality of shoe turning elements comprising, a shoe forepart turning member and co-acting clamping members, adapted to engage the sole of a shoe at its shank part, and actuating means for at least one of said plurality of shoe turning elements, said shoe forepart turning member and said co-acting clamping members being so relatively positioned and arranged that the operator may cause disengagement of the shoe therefrom and may remove the shoe from the machine during the actuation of said actuating means.

1,453,800. TANNING OF HIDES AND SKINS. PIERRE JULIEN CLÉMENT MARGOTTON, Niort, France. Filed July 26, 1921. Serial No. 487,622. 5 Claims. (Cl. 149—4.)

1. A process of tanning, comprising the steps of subjecting the dehaired skins to the action of a tanning bath containing chromic acid; treating the skins with sulfurous acid gas in a closed receptacle to transform the chromic acid into sulfate of chromium sesquioxide; subjecting them to the action of ammoniacal vapors to force out the sulfurous acid gas; washing the skin with water until the ammonia is removed, and then expelling the excess water; then subjecting them to the action of alcohol vapors; submerging the skins in oil; evaporating the alcohol from the skins and leaving the oil therein to be oxidized in the presence of the chromium sesquioxide and to effect a fresh tanning action; and finally drying the skins.

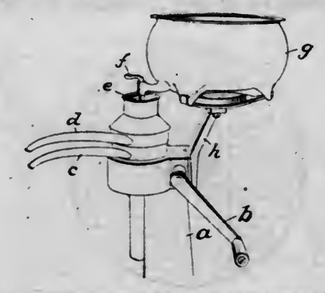
1,453,801. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. CONRAD H. MATTHIESSEN, Jr., Irvington-on-Hudson, N. Y. Filed Sept. 9, 1920. Serial No. 409,183. 13 Claims. (Cl. 123—188.)



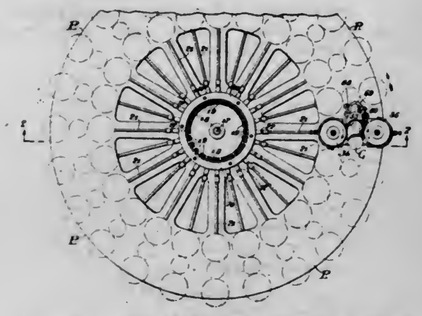
1. A telescoping slide valve mechanism for four cycle gas engines, one part sliding within the other, the outer members forming a pocket into which the inner member slides, the pocket being provided with a closed bottom in combination with inlet and exhaust ports, two of the slide members by their relative motion controlling the inlet and the outer slide alone controlling the exhaust.

1,453,802. COMBINED MILK RESERVOIR AND BOWL-CLAMP SUPPORT FOR CREAM SEPARATORS. THEODORE H. MILLER, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 29, 1922. Serial No. 591,254. 2 Claims. (Cl. 233—1.)

2. A bracket for a cream separator having an elliptical-shaped tray with an upstanding rim and radially disposed reservoir supporting arms extending therefrom, and a pair of bowl clamping band anchoring studs extending upward from the floor of the tray and positioned near the rim on opposite sides of the shorter diameter of the tray.

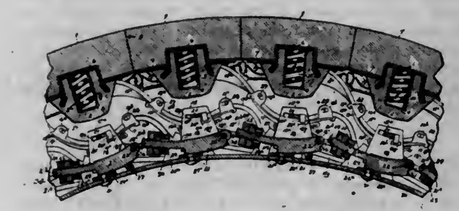


1,453,803. GLASSWORKING APPARATUS. JOHN A. Milliken, Bayonne, N. J., assignor to John E. Marsden, Egg Harbor City, N. J. Filed June 30, 1921. Serial No. 481,501. 29 Claims. (Cl. 51—107.)



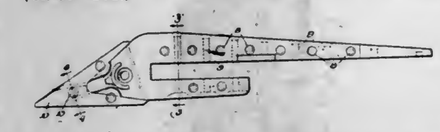
1. Glass working apparatus comprising a rotating supporting member, a plurality of glass cutting units thereon, a shaft for each unit, and means common to the shafts of all the units for rotating the same during rotation of said supporting member.

1,453,804. RESILIENT VEHICLE TIRE. JOHN E. MOTE, Dayton, Ohio. Filed Apr. 4, 1918. Serial No. 226,721. 47 Claims. (Cl. 152—8.)



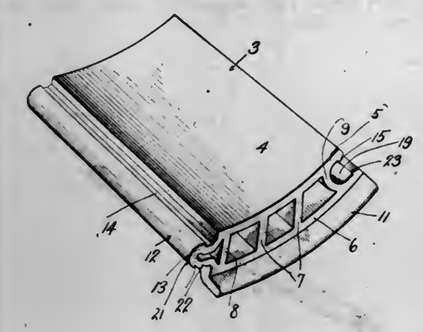
20. In a vehicle tire comprising a rigid inner rim, an outer rim comprising a plurality of sections, universal joints connecting the sections, each section being divided longitudinally into two parts, means for hinging the two parts together, means for limiting the movements of the two parts with relation to each other, a tread section secured to each of the sections of the outer rim, cantilever springs connected to the inner rim, and means for connecting the springs to the outer rim sections.

1,453,805. DIPPER TOOTH. WESLEY G. NICHOLS, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 30, 1918. Serial No. 268,817. 9 Claims. (Cl. 37—142.)



1. A dipper tooth base comprising a plurality of relatively thin sections of substantially uniform thickness and similar shape, with the flat sides of the sections secured together so that when said base is in position on a dipper body the sections will be in edgewise relation with respect to said body.

1,453,806. BUILDING BLOCK. NELS A. NORD, Red Wing, Minn. Filed Nov. 14, 1921. Serial No. 515,018. 1 Claim. (Cl. 72—41.)

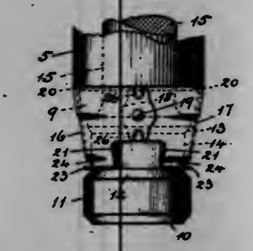


A building block comprising a body provided at one edge with a tongue portion which is curved along the plane of its axis beyond the adjacent edge face of the body, said tongue portion being provided at one side with a recess and at its opposite side with V-shaped grooves, the body of the block being provided at its opposite edge with a substantially U-shaped socket the mouth of which is of the same transverse breadth as the transverse breadth of the tongue portion at its base line, the intermediate portion of the socket being of greater transverse breadth than the intermediate and end portions of the tongue, the socket being of greater depth than the length of the tongue, the mouth portion of the socket being provided at one side with an inwardly disposed flange adapted to fit snugly in the recess upon the tongue of an adjacent block, the relative dimensions of the tongue portion and the socket being such that when two of the blocks are placed edge to edge together the tongue portion of one block is completely received in the socket of the other block, with the face surfaces of the adjacent blocks in close contact with each other and sufficient space being left between one side of the tongue portion only and the adjacent surface of the socket to receive and completely enclose a filling of cement.

1,453,807. TOOL RETAINER. SAMUEL OLDHAM, Philadelphia, Pa., assignor to George Oldham and Son Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1920, Serial No. 374,116. Renewed Sept. 29, 1922. Serial No. 591,398. 11 Claims. (Cl. 121—32.)

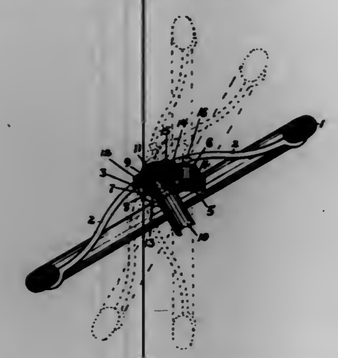
1. A working-tool retainer for pneumatic tools said retainer comprising a plurality of pivotally-connected seg-

ments with flange-means at the upper end of the connected segments and yielding means at the lower end



thereof said segments being capable of rocking on their pivot connections whereby to move the flange-means toward or from each other.

1,453,808. STEERING WHEEL. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Apr. 7, 1921. Serial No. 459,442. 2 Claims. (Cl. 74—33.)



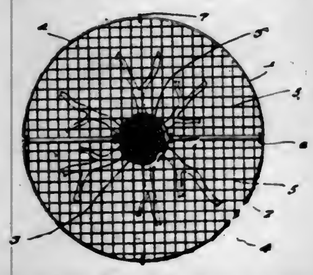
1. In a device of the class described, a steering wheel having a hollow hub with an opening in one side thereof; a lock controlled bolt in connection with the hub at one side thereof; a steering stem extending up into the hub; and a ball rigidly fixed on the end of the steering stem within the hub, and having a recess adapted to receive the lock bolt when the wheel is in normal position, and having also an annular groove adapted to receive the lock bolt when the wheel is in tilted position.

1,453,809. COLLAR BUTTON. HARRY SIROT, New York, and HYMAN SIROT, Brooklyn, N. Y. Filed Nov. 21, 1922. Serial No. 602,367. 3 Claims. (Cl. 24—108.)



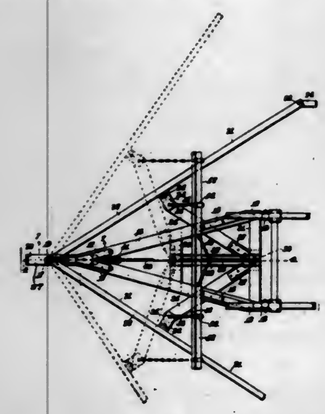
1. A device of the class described comprising a pair of interlocking members, each member having a pair of spaced apart flanges thereon, the outer flange of each member having a quadrant cut out, said cut out quadrant being adapted to enter and slip helically thru a bottom hole, means for closing said cut out portion, and means for interlocking both members.

1,453,810. TREE PROTECTOR. OTTO SLEEN, Rocky Mountain House, Alberta, Canada. Filed Apr. 15, 1922. Serial No. 552,883. 2 Claims. (Cl. 47—38.)



1. A tree protector designed to be arranged on the ground at the opposite sides of the trunk of a tree comprising two flat semi-circular members each having a semi-circular notch centrally of its straight edge to receive the trunk of a tree therein and the rounded edges of each of the members having ground entering elements.

1,453,811. SNOWPLOW. OSCAR H. STARKWEATHER, Needham, Mass. Filed Nov. 3, 1921. Serial No. 512,551. 6 Claims. (Cl. 37—44.)

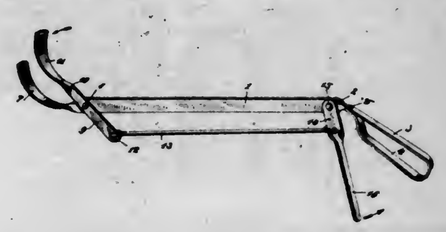


1. In a snow plow, the combination of two moldboards hinged together; a push frame extending rearwardly from the apex of the blow; hinged members on the rear of said push frame; coacting members secured to a motor vehicle and connected to said hinge members by horizontal alined pins; a frame-work on the front of the motor vehicle, and means supported thereby for raising the apex of said plow.

1,453,812. TRAP PLACER. ARTHUR THOMAS, Bailey, Mich., assignor to Triumph Trap Co., Inc., Oneida, N. Y., a Corporation of New York. Filed May 17, 1919. Serial No. 297,894. 1 Claim. (Cl. 294—22.)

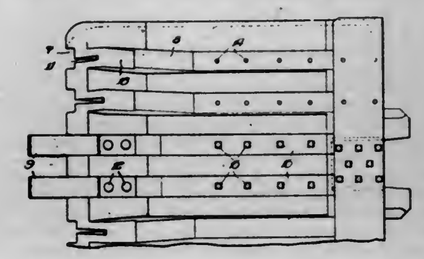
A trap placer comprising a digging implement having a body composed of a main flat bar of metal provided at one end with a handle, the said main bar having a portion near its other end twisted upon itself at right angles and the end portion of the bar beyond the said twist being curved to form a flat curved jaw, a second and relatively shorter bar of flat metal constituting a jaw lever pivotally attached to the said main bar near the twisted portion thereof, the end portion of the said second

bar being twisted upon itself at right angles to form a flat curved jaw corresponding to the said curved jaw of the main bar whereby the said jaws may be closed to-



gether to reenforce each other for digging, a hand lever pivotally attached to the said main bar near the said handle, and a rod pivotally connecting the said hand lever and the pivoted jaw lever.

1,453,813. DIPPER FRONT. ELLISON EDWARD VANDERHOEF, Jerome, Ariz., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 29, 1920. Serial No. 420,554. 4 Claims. (Cl. 37—141.)



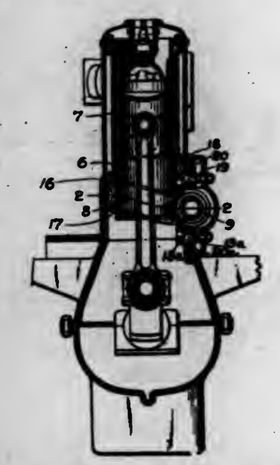
1. A single piece cast metal front for excavating dippers having a plurality of longitudinally extending ribs formed integrally therewith and on the outer surface of the front, said ribs having seats at the upper ends thereof whereby a series of detachable dipper teeth may be secured to the ribs, the cutting edge of the front extending beyond said seats and being notched whereby said dipper teeth may lie flush with the ribs, and means for securing said teeth in place on said seats.

1,453,814. LENS MOUNTING. JOHN R. VAN TASSEL, Geneva, N. Y., assignor to The Standard Optical Company, Geneva, N. Y., a Corporation of New York. Filed Jan. 4, 1922. Serial No. 526,936. 4 Claims. (Cl. 88—47.)



1. In a lens-mounting, a tubular nose-piece, and lens-holders having tangs inserted telescopically in the ends of the nose-piece, the telescoping parts being bent to form similar angles.

1,453,815. MECHANICAL MOVEMENT. RAYMOND WARE, Ithaca, N. Y. Filed Mar. 16, 1920. Serial No. 366,227. 7 Claims. (Cl. 74—14.)



4. The combination with a rotatable worm, of a worm wheel movable longitudinally on its axis of rotation and having a recessed threaded portion extending completely around said wheel, the toothed portion of the worm projecting within said recess, and meshing with the threaded portion of the wheel to produce both rotary and longitudinal movement of said wheel.

1,453,816. TOOTHBRUSH HOLDER. WALTER W. WELPLEY, Detroit, Mich. Filed Nov. 14, 1921. Serial No. 514,875. 5 Claims. (Cl. 248—63.)

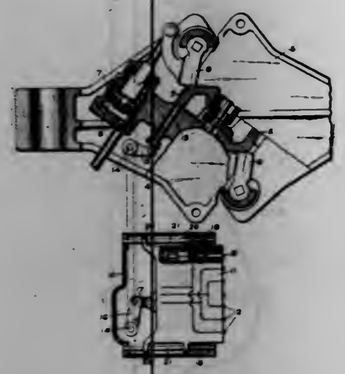


1. A tooth brush holder comprising a flanged back plate having a shelf, and a compartment plate on said back plate and providing individual brush compartments which have the upper ends thereof closed by the shelf of said back plate, said compartment plate possessing a resiliency which permits of its side edges being sprung under the flanges of said back plate.

1,453,817. ELECTRIC COUPLING FOR CARS. HENRY HERMAN WESTINGHOUSE, New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 5, 1918. Serial No. 243,350. 5 Claims. (Cl. 173—332.)

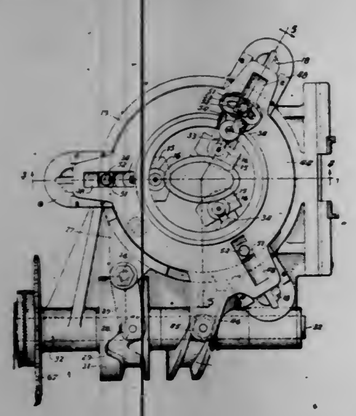
1. The combination with a car coupler, having a projection, of an electric coupler suspended beneath the car

coupler, and having a movable electric contact carrier, a yielding tappet movably mounted in the car coupler



adapted to be engaged by the projection of a counterpart coupler, and a mechanical connection from said tappet for projecting the contact carrier.

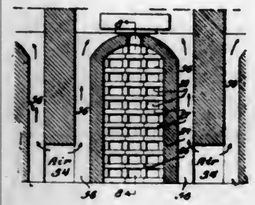
1,453,818. END FEED FOR DOUBLE SEAMERS. MAGNUS E. WIDELL, Maywood, and ARTHUR A. JAHR, Forest Park, Ill., assignors to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1920. Serial No. 424,696. 9 Claims. (Cl. 113—114.)



1. A can end feeding mechanism comprising a stack holder for holding accumulated can ends, and a plurality of retractable blades and separating knives and rolls, said blades and rolls being alternately projectable into the path of the can ends, and means for reciprocating said rolls with said plurality of strokes.

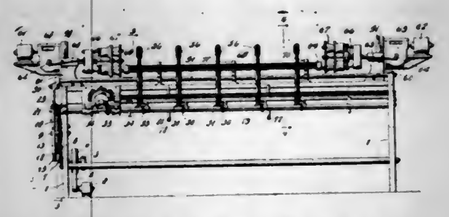
1,453,819. COMBINATION APPARATUS FOR DRYING, BURNING, AND COOLING BRICK. THOMAS M. WILSON, Greensburg, Pa. Filed Feb. 7, 1921. Serial No. 442,948. 15 Claims. (Cl. 25—2.)

1. Apparatus of the character described including a drier; a kiln, said drier having tunnels for bricks to be dried and sub-tunnels; means for directing products of combustion from said kiln into said sub-tunnels; and



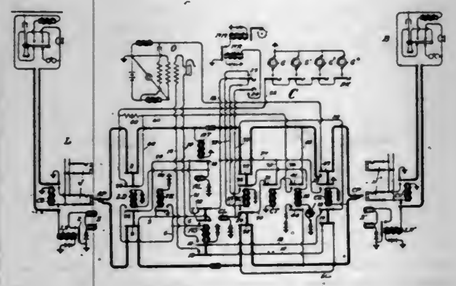
means for conducting radiated heated air from said kiln directly into said first tunnels of the drier, substantially as described.

1,453,820. MACHINE FOR TYING BUNDLES OF WIRES. PARVIN WRIGHT, Chicago, Ill. Filed Feb. 18, 1922. Serial No. 537,610. 10 Claims. (Cl. 100—31.)



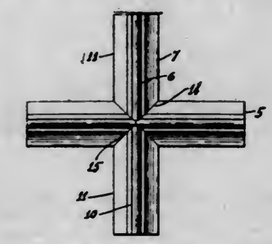
1. In a machine for tying a bundle of wires the combination of a fixed support for said bundle; a needle arm provided with a wire; means to hold one end of said wire in the machine as it passes through said needle; a second support for said bundle so located that when said bundle is brought from said first to said second mentioned support, it will strike said wire and cause the latter to partially encircle said bundle; a shaft carrying said needle arm; means to oscillate said shaft and cause said needle arm to complete the encircling with wire of said bundle; a second shaft; means operated from said second shaft to twist together two bights of the wire encircling said bundle; and a pair of cutter bars operated from said second shaft to cut the wire at two places, substantially as described.

1,453,821. TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 20, 1921. Serial No. 478,795. 7 Claims. (Cl. 179—58.)



1. A telephone system including a calling subscriber's line and a called subscriber's line, an operator's link circuit for use in interconnecting said lines, a source of ringing current, operator controlled means for connecting said ringing current to the said called subscriber's line, a relay controlled over the calling line, and means including a link disconnect relay controlled by said relay for cutting down the flow of ringing current to the called subscriber's line by directing the ringing current through a high resistance circuit which is normally shunted prior to the operation of said disconnect relay.

1,453,822. STEEL SASH CONNECTION. MATHEW ZEMAN, Cleveland, Ohio. Filed July 23, 1921. Serial No. 487,047. 2 Claims. (Cl. 189—76.)



1. A joint of the character described comprising a pair of strips, one of said strips having a slot extending inwardly from its front longitudinal edge, another of said strips having a slot extending inwardly from its rear longitudinal edge, the rear longitudinal edge of the first mentioned strip and the front longitudinal edge of the second mentioned strip having small recesses, the front longitudinal edge of the first mentioned strip and the rear longitudinal edge of the second mentioned strip having extensions extending therefrom adjacent the slot of each strip, said slots permitting interengagement of the strips with each other whereby the extensions project respectively beyond the front longitudinal edge of the second mentioned strip and the rear longitudinal edge of the first mentioned strip, the extensions being adapted to be forced into the recess of the adjacent strip.

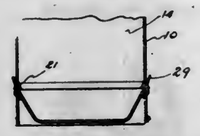
1,453,823. HOSE CONSTRUCTION. CASSIUS M. CLAY BAIRD, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,737. 3 Claims. (Cl. 137—90.)



1. In a device of the character described, a rubber tube having secured thereto on opposite sides a pair of reinforcing strips of rubber containing non-woven fibers adapted to prevent tearing, said tube being formed with a longitudinal fold-set adapted to assure folding of the tube along the central axes of said strips when collapsed.

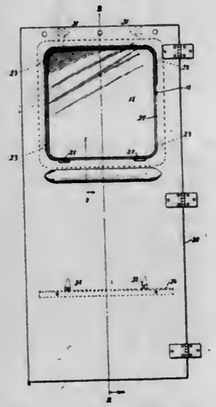
1,453,824. NONBREAKABLE REFUSE CAN. CHARLES BAUER, New York, N. Y. Filed July 8, 1922. Serial No. 573,704. 1 Claim. (Cl. 220—66.)

A refuse can comprising an annular body shell, a removable cover therefor, an internal shoulder in said shell, a bottom member, a flanged rim on said bottom, a convergent wall joining said flanged rim and bottom, said flanged rim adapted to be inserted into the body shell to engage said shoulder, resilient pawls formed integral with said shell and projecting thru slitted portions of said can, lips on said pawls adapted to normally engage the flanged rim of said bottom, and swing



arms secured to said pawls and adapted to release the latter from engagement with said flanged rim when removing said bottom member.

1,453,825. VEHICLE SASH DOOR. KENNETH S. BAXTER, Michigan City, Ind., assignor to Sheet Steel Products Company, Michigan City, Ind., a Corporation of Indiana. Filed Oct. 15, 1920. Serial No. 417,110. 4 Claims. (Cl. 296—44.)



1. A sash comprising, in combination, spaced sash members adapted to be pressed against opposite sides of a pane of glass, one of said members having a hole therein, a cushion member adapted to form a seat for the edge of said glass, a knob on said cushion projecting through said hole, to cushion the sash against lateral jars.

1,453,826. SHEET-METAL SPOOL. CHARLES AUGUSTUS BEAUJON, Canaan, Conn. Filed Jan. 5, 1922. Serial No. 527,108. 5 Claims. (Cl. 242—77.)



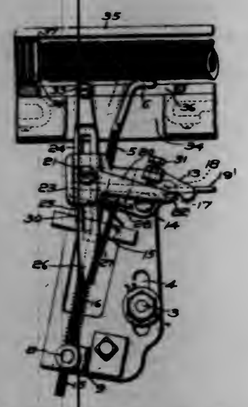
1. A sheet metal spool comprising a hub or body made up of a plurality of rectangular panels each connected to the next along a rounded edge, the body comprising tongue and slot means for locking the same in definite form when assembled, the spool also including a plurality of wings on each end of the body located in approximately the same plane and each wing being integral with and constituting an extension of the end of an adjacent body panel.

1,453,827. ELECTRIC-LAMP SOCKET. REUBEN B. BENJAMIN, Chicago, and PAUL D. PHILLIPS, Elmhurst, Ill., assignors to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1920. Serial No. 375,484. 3 Claims. (Cl. 173—356.)



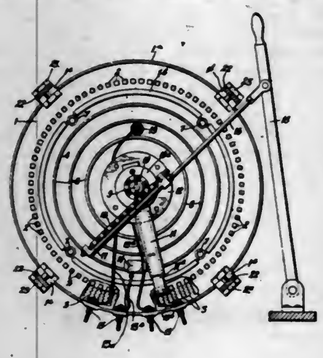
2. A lamp locking socket comprising a plate, a threaded shell contact mounted on said plate, a second plate mounted on said first plate and spaced therefrom, said plates having aligned bearing openings therein, a pivot pin mounted in said bearing openings, and a dog mounted on said pivot pin for engaging the lamp base, said pivot pin being provided with key-engaging means, whereby a key may be used to turn said pivot pin to control said dog.

1,453,828. FEELER MECHANISM FOR LOOMS. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 6, 1922. Serial No. 550,103. 11 Claims. (Cl. 139—85.)



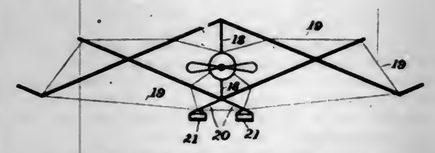
1. In a feeler mechanism for looms, the combination of a feeler mounted for movement towards and from the front of the loom and also in a direction longitudinally of the shuttle, a feeler lock which prevents replenishment of the filling in the shuttle until the filling is substantially exhausted, a bobbin engaging member which is moved in a direction longitudinally of the shuttle by the frontward pressure upon it when the filling is substantially exhausted on a detecting beat to trip the lock and free the feeler, and means actuated by movement of the feeler for effecting replenishment of filling.

1,453,829. RHEOSTAT. GEORGE WARREN CAMP, Mount Vernon, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Jan. 10, 1921. Serial No. 436,024. 9 Claims. (Cl. 219—48.)



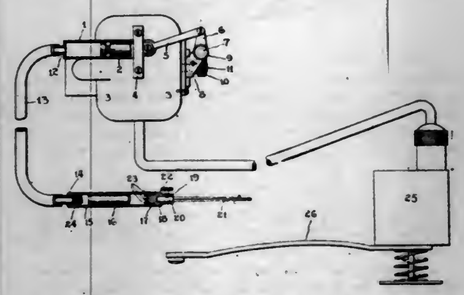
1. A rheostat comprising a plate, resistance conductors and fixed contacts on one side of said plate, resistance conductors and fixed contacts on the reverse side of said plate within the other set of resistance conductors and fixed contacts, heat radiating flanges on both sides of said plate and located opposite said resistance conductors respectively, and controlling means on each side of said plate.

1,453,830. AIRPLANE. HENRY COAKLEY, New York, N. Y. Filed Sept. 15, 1920. Serial No. 410,465. 3 Claims. (Cl. 244—12.)



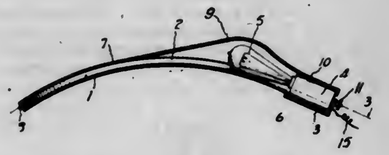
1. An airplane having superposed supporting units, respectively angled and intersecting in dihedral and reverse dihedral relation, characterized by the central portion of a lower unit having dihedral angularity, and laterally extended portions of said units having like symmetrical angularity.

1,453,831. VIBRATORY TOOL. EDWARD P. DIETERLE, New York, N. Y., assignor of one-half to Albert G. Barker, New York, N. Y. Filed June 8, 1921. Serial No. 476,058. 1 Claim. (Cl. 29—10.)



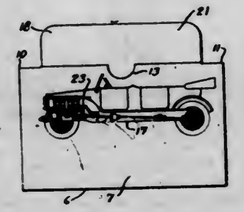
A pressure applying device to be manually held and directed comprising a hollow cylinder, a tool fixedly carried thereby, a free piston within said cylinder, and pneumatic means for reciprocating the piston throughout the cylinder extent to vibrate the device.

1,453,832. ELECTRIC HEATER. ELIZABETH C. DONALDSON, Highland Park, Mich., assignor to Charles S. Davis, Ray P. Johnson, J. Carl O'Hara, John F. McNaughton, A. Earl Boyce, and Henry C. Gordon, all of Muncie, Ind. Filed Nov. 22, 1920. Serial No. 425,682. 4 Claims. (Cl. 219—45.)



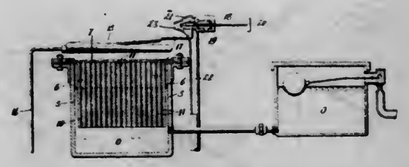
1. In an electric heater, a body contacting member shaped to fit portions of the human body, a series of incandescent lamps releasably secured in the said body contacting member, a cover hinged to the said first named member fitting over the said lamps, electric circuits for the said lamps, and means for separately energizing the said circuits.

1,453,833. DISPLAY FOLDER. CLARENCE C. FLEMING, Amityville, N. Y., and HAROLD L. MYERS, Morristown, N. J. Filed Sept. 7, 1922. Serial No. 586,724. 8 Claims. (Cl. 40—65.)



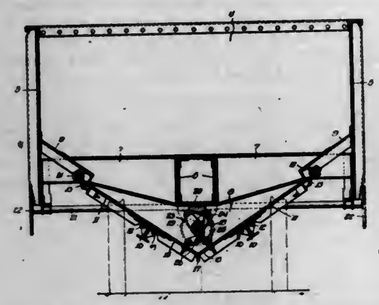
1. A display-folder comprising a body portion having a pocket, a bent-over flap closing the pocket and intermediately slitted along the fold, an opening formed in the outer face of the pocket, and a display card held in the pocket by the flap with a tongue projectable through the slit to shift the card in the pocket relatively to said opening.

1,453,834. OIL BURNER. ALBERT EDWARD GRANT, New York, N. Y. Filed Apr. 16, 1921. Serial No. 461,854. 4 Claims. (Cl. 158—92.)



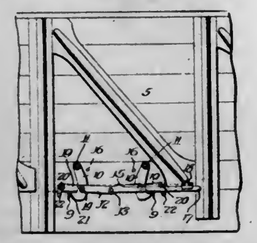
1. In an oil burner the combination with flame forming means adapted to mix hot oil gases and air by means of a steam jet, of an oil supply having a level below said flame forming means, and means for feeding the oil from said supply to said flame forming means by capillary action.

1,453,835. HOPPER-CAR ARRANGEMENT. HARRY S. HART, Chicago, Ill. Filed Aug. 4, 1921. Serial No. 489,698. 10 Claims. (Cl. 105—251.)



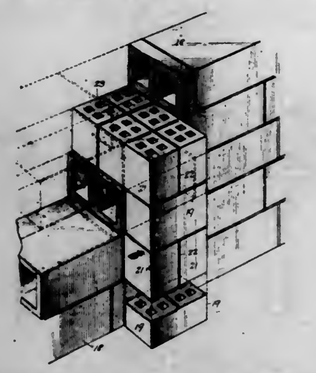
1. In a dump car, a bottom comprising inwardly sloping side portions, each said side portion comprising outwardly opening doors for side dumping and inwardly opening doors for center dumping, and means for operating said doors.

1,453,836. DUMP-CAR-DOOR LATCH. HARRY S. HART, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed May 6, 1922. Serial No. 558,980. 6 Claims. (Cl. 105—308.)



1. In combination with a dump car door and its latch, a toggle lever pivotally connected with and adapted to impart latching and unlatching movement to said latch, and a toggle actuating arm angularly rigid with a member of the toggle lever.

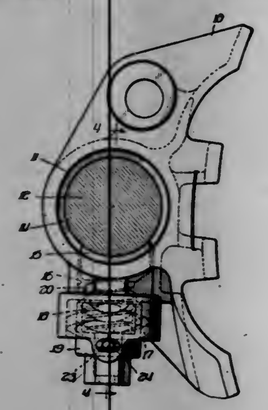
1,453,837. PILASTER CONSTRUCTION. FREDERICK HEATH, Tacoma, Wash. Filed May 1, 1920. Serial No. 378,056. 6 Claims. (Cl. 72—41.)



1. A pilaster construction, comprising wall blocks and pilaster blocks arranged in interbonding relation in super-

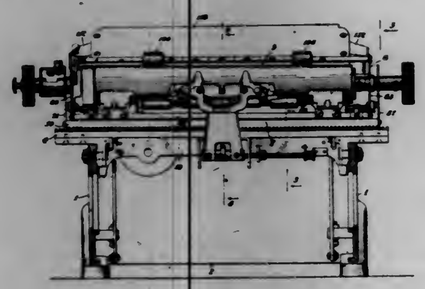
posed courses, the width of each pilaster block being slightly less than one half its length, one of said courses including a pilaster block disposed parallel with and entirely outside of the wall face and the next superposed course including a pilaster block disposed at right angles to and overlapping said subjacent block and also overlapping a wall block within the wall body to securely bond the wall and pilaster together.

1,453,838. ADJUSTABLE BRAKE HEAD. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,503. 3 Claims. (Cl. 188—229.)



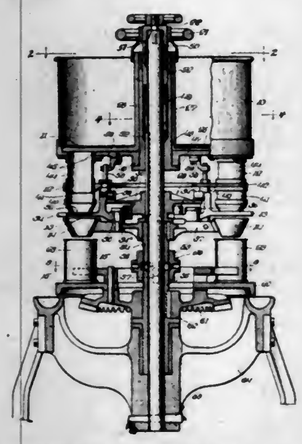
2. In brake mechanism, the combination of a brake head having an opening, the walls of which are provided with helically formed portions, a block for frictionally engaging an associated brake beam trunnion, a spring cooperating with said block, means having lugs cooperating with said helically formed portions for compressing said spring and forcing said block into operative association with the brake beam trunnion, said helically formed portions having depressions whereby said means is prevented from accidentally moving into an inoperative position.

1,453,839. TYPEWRITING MACHINE. EDWARD B. HESS, Brooklyn, and LEWIS C. MYERS, Freeport, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed June 19, 1922. Serial No. 569,321. 3 Claims. (Cl. 197—143.)



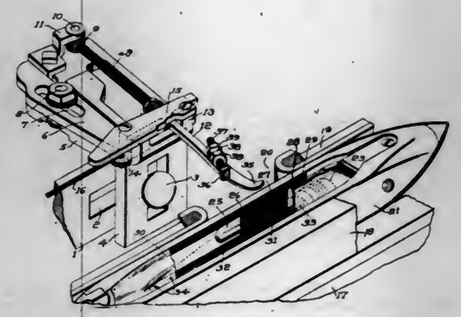
1. In a typewriting machine: a platen, a shiftable carriage having end walls and supporting said platen, a transverse brace rod mounted in the end walls of said shiftable carriage, a paper pan, a paper table, a pair of arms carried by said paper table and supported on said brace rod, and means for normally urging said paper table into a lowered position including a spring and a curved link connected to the spring and loosely pivoted to one of the arms of the paper table at a point above the brace rod, said link spanning the brace rod when the paper table is in its elevated position.

1,453,840. FILLING MACHINE. AUGUST HOLMQUIST, Hoopeston, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 3, 1921. Serial No. 434,441. 4 Claims. (Cl. 226—97.)



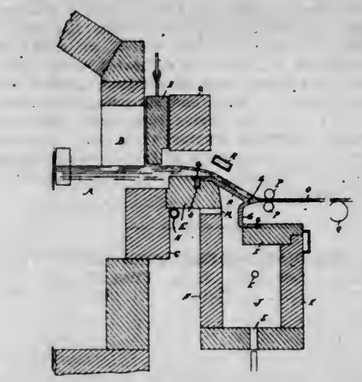
1. A can filling machine comprising a rotatable tank, a stationary cut-off plate in said tank, a series of measuring pockets rotatable with said tank, and supplied with material from said tank, said stationary cut-off plate serving to cut off the supply of material from said tank to said pockets, and a plurality of laterally swinging gate valves, one for each of said measuring pockets, for controlling the discharge from said measuring pockets, and means for intermittently forcing said laterally swinging gate valves upwardly into sealing engagement with the outlet from said measuring cups as said measuring cups are being filled from said rotatable tank.

1,453,841. FEELER MECHANISM FOR LOOMS. PATRICK J. HUNT, New Bedford, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 29, 1922. Serial No. 547,620. 11 Claims. (Cl. 139—85.)



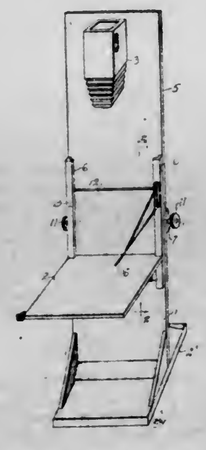
1. In a feeler mechanism for looms, the combination of a feeler that is mounted for side-slipping movement and also for movement toward and from the front of the loom, a shuttle having a side opening through which the feeler passes on a detecting beat, and a protector curtain of flexible material interposed between the end of the feeler and the filling carrier in the shuttle and along which the feeler slides in a direction longitudinally of the shuttle when filling is substantially exhausted on a detecting beat thereby protecting the filling and the filling carrier from injury by the feeler during both its feeling action and side-slipping movements.

1,453,842. APPARATUS FOR DRAWING SHEET GLASS. WILLIAM J. JACOBS, Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Filed Jan. 4, 1919. Serial No. 269,577. 6 Claims. (Cl. 49—17.)



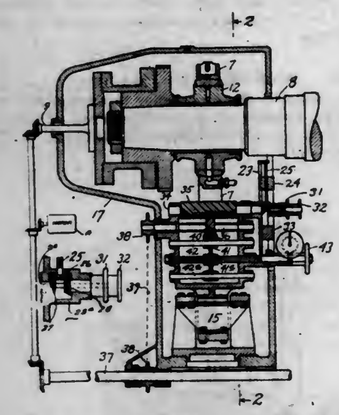
1. In a sheet glass drawing apparatus, the combination with a means for supplying molten glass continuously, of a metallic slab onto which the glass from the supply is adapted to flow in a continuous sheet, means for cooling the glass while on the slab, and means for stretching it from the edge of the slab into a sheet of predetermined thickness.

1,453,843. FOCUSING MECHANISM. ROY W. JOHNSTON, Chicago, Ill. Filed Sept. 22, 1921. Serial No. 502,474. 2 Claims. (Cl. 88—24.)



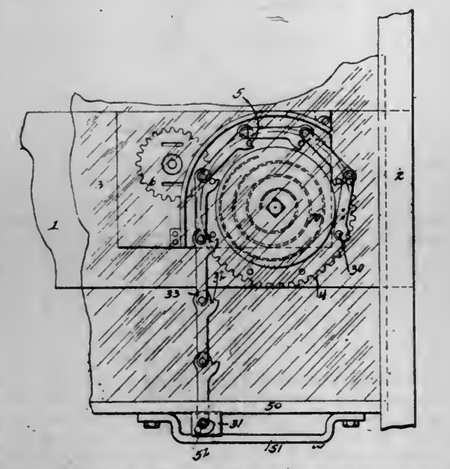
1. A device of the class described comprising an adjustable support movable toward and away from a predetermined focus point located between said support and a camera, and a gage located at said focus point and arranged to swing in a plane at substantially right angles to the axis of the camera so as to be movable into and out of the range of the camera.

1,453,844. BALANCING MACHINE. DAVID KILGOUR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1920. Serial No. 356,342. 5 Claims. (Cl. 73—51.)



1. In combination in a balancing machine, a movable support on which the body to be balanced is rotatively mounted, means for rotating said body, a rotatable weight associated with said support and means for rotating said weight in synchronism with said body including a pair of intermeshing gears having inclined teeth, and means for moving one of said gears longitudinally with relation to the other to cause said weight to lead or lag with respect to said body during the period of operation of said means and while the body and weight are in motion.

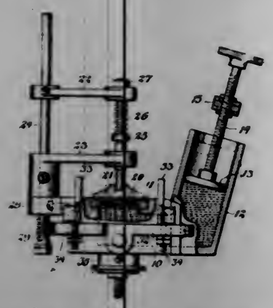
1,453,845. MECHANICAL WINDOW LIFT. WILLIAM KOPP, Detroit, Mich., assignor to Joseph N. Smith & Co., Detroit, Mich., a Corporation of Michigan. Filed Apr. 26, 1918. Serial No. 230,866. 5 Claims. (Cl. 268—4.)



1. In a mechanical window lift the combination with a frame and sash slidable therein, of a sprocket, a chain

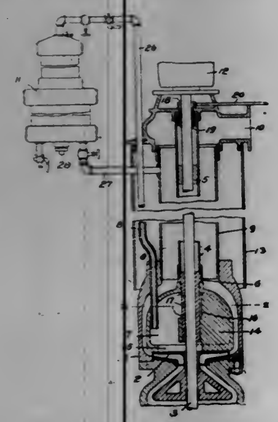
connected therewith and with the sash in such manner that rotation of the sprocket in one direction or the other causes upward or downward movement of the sash in the frame, a gear for driving the sprocket, a plate fixedly supported in spaced relation with the gear and having a central aperture, a pair of spring-actuated locking bars supported between the plate and the gear, means engaged by the bars when released to action by the springs preventing rotation of the gear, and a handle device for rotating the gear, said handle device being adapted upon turning thereof to first withdraw the locking bars from locking position and upon release of the handle to release the bars to return to locking position by action of their springs.

1,453,846. TUBE-MAKING MACHINE. ROMEO LA CROIX, Holyoke, Mass., assignor to Samuel M. Langston Company, Camden, N. J., a Corporation of New Jersey. Filed Feb. 17, 1921. Serial No. 445,597. 17 Claims. (Cl. 93—80.)



1. A tube making machine including a mandrel on which a strip of paper is wound helically to form the tube, and in respect to which the completed tube slides lengthwise as formed, a reservoir for lubricant and means for forcing lubricant out of said reservoir and delivering the same into the path of movement of the surface of the strip going to make up the inner surface of the tube.

1,453,847. WELL MECHANISM. MAHLON E. LAYNE, Los Angeles, Calif. Filed Sept. 8, 1920. Serial No. 408,946. 12 Claims. (Cl. 103—102.)

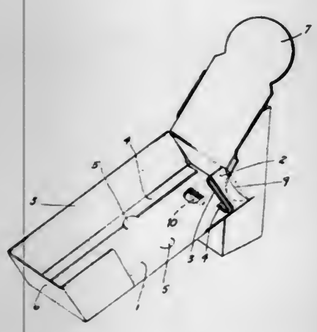


1. In combination in a well mechanism a centrifugal or rotary pump provided with an oil reservoir adjacent the pump neck and with impellers, and upwardly extending discharge casing, a shaft casing extending upwardly from the pump neck, a shaft connected to the impellers and extending upward through the shaft casing, a bearing at the pump neck extending into said oil reservoir, and means for forcing oil into said reservoir and thence upward through the shaft casing.

1,453,848. AGAR-AGAR COMPOSITION AND METHOD OF PRODUCING THE SAME. CHOKICHI MATSUOKA, Los Angeles, Calif. Filed Nov. 17, 1921. Serial No. 515,816. 7 Claims. (Cl. 99—11.)

3. The process set forth of preparing a product from agar-agar produced by drying a quantity of the appropriate seaweed, adding chlorine thereto until bleached, treating the bleached substance with a solution of sodium thiosulphate, removing the substance from the solution and washing the same in clear water, subjecting the cleansed substance to the action of heated water until a homogeneous and viscid mass is obtained, passing such viscid mass through a sieve and spreading such sieved substance on a tray, and drying such sieved substance, which process comprises dipping such dried substance into cold water for the purpose of further bleaching and then drying such bleached substance, thus producing a transparent product.

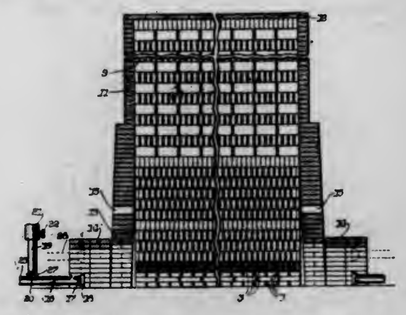
1,453,849. FOLDING ADVERTISING BOX. FRANK XAVIER LIST, New York, N. Y. Filed Feb. 18, 1922. Serial No. 537,364. 3 Claims. (Cl. 206—44.)



1. A display container having doubled side walls and ends, a separate hollow pedestal member, insert tongues and angular recesses on side walls of the pedestal, said tongues adapted to be slipped between the doubled wall members at adjacent end edges of the container when the latter is arranged for display, the end edges of the outer walls being concavely curved at adjacent corners providing guides for said tongues, and means for retaining the container in inclined position on the pedestal.

1,453,850. METHOD OF AND MEANS FOR BURNING BRICKS. GRAFTON E. LUCE, Chicago, Ill., assignor, by mesne assignments, to Charles A. Brown, Hinsdale, Ill. Filed July 25, 1917. Serial No. 182,653. 14 Claims. (Cl. 25—157.)

1. In a kiln, a stack of green bricks and a foundation of burned bricks, said foundation of burned bricks having a furnace therein and said stack of green bricks having a furnace therein adjacent the furnace in the foundation,



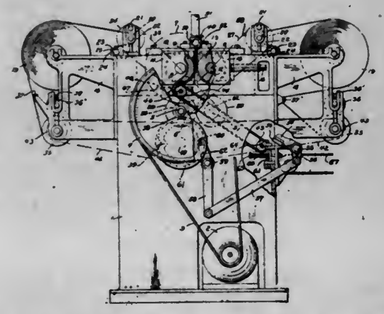
said furnaces being connected at intervals through a foraminous wall of burned bricks.

1,453,851. ROTARY KILN. SYLVESTER S. MCGRATH, West New Brighton, N. Y. Filed Mar. 30, 1921. Serial No. 456,886. 5 Claims. (Cl. 222—7.)



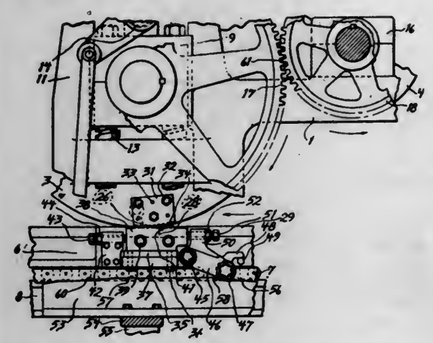
2. A cement burning apparatus embodying an inclined kiln mounted for rotation, said kiln being cylindrical and of a uniform interior diameter for the major portion of its length from the feed end thereof and the remainder of its length being of circular frusto conical shape diverging toward the discharge end of the kiln which is unobstructed so that material traveling down the frusto conical portion of the kiln will not be arrested but flow freely from the discharge end thereof, and a lining for the kiln, said lining being of greater thickness within the frusto conical portion of the kiln than within the cylindrical portion of the kiln.

1,453,852. TUBING MACHINE. JEREMIAH L. MAHONEY, New Haven, Conn., assignor to Goodyear's India Rubber Glove Manufacturing Company, a Corporation of Connecticut. Filed Nov. 7, 1919. Serial No. 336,294. 8 Claims. (Cl. 154—5.)



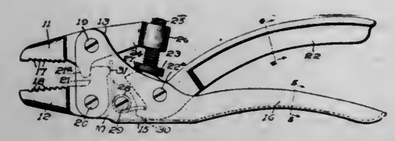
4. A machine for making tubing from sheeted plastic stock comprising means for joining two sheets of stock by pressure along a series of narrow parallel areas and simultaneously substantially severing them within said areas, and stationary means independent of the formed tubing for treating it to prevent adhesion of its walls between said areas.

1,453,853. CYLINDER PRINTING PRESS. ROBERT F. MIEHLE, Jr., Chicago, Ill. Filed Apr. 6, 1921. Serial No. 458,894. 9 Claims. (Cl. 101—191.)



1. A printing press including a printing couple, one of the members of which is a rotating cylinder, mechanism for driving the couple members in unison throughout the cycle of operation thereof, cooperating register elements mounted to move with respective couple members, one of said register elements being mounted for movement with respect to its couple member into and out of a predetermined registering position in a path to cooperate with the other register element to effect necessary relative movement of said couple members to register the same when moved into said registering position, a stop limiting movement of said movable register element in one direction of its said movement with respect to its couple element, and cam mechanism operating in timed relation with the operation of said couple members and adapted to move periodically said movable register element against said stop to effect the positioning of this register element in such predetermined registering position.

1,453,854. PIPE WRENCH. BURTON H. PARKER, Detroit, Mich., assignor to Trimont Manufacturing Company, Roxbury, Mass., a Corporation of Maine. Filed Jan. 24, 1922. Serial No. 531,382. 6 Claims. (Cl. 81—78.)



1. In a tool having opposing jaws for engaging the work, a head having a handle extending therefrom, a pair of pivoted jaws, each having a pivot pin extending directly through the body of the jaw and into the head for pivotally connecting each jaw to the head, a projection formed integral with each jaw and extending radially from the pivotal mounting of the jaws into overlapping relation, and a handle pivoted to the head and having a cam surface for operating one of the jaws to grip the work.

1,453,855. HEATER FOR MOTOR-PROPELLED VEHICLES. CLYDE S. PELTON, Cleveland Heights, Ohio, assignor to The Perfection Heater and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 8, 1920. Serial No. 379,818. 3 Claims. (Cl. 12.3.)

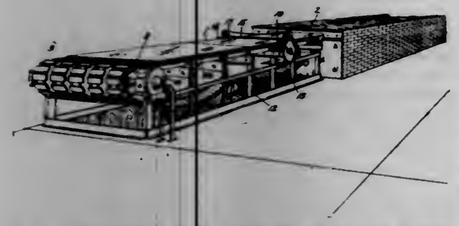
2. In an automobile, the combination with two independent exhaust pipes of an engine, of a radiator having

two parallel sets of heating pipes located side by side, each set of heating pipes being operatively connected at



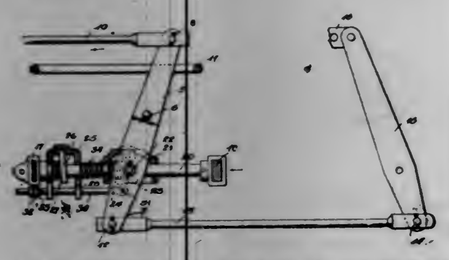
one end to one of the exhust pipes and discharging the exhaust gas at its opposite end.

1,453,856. APPARATUS FOR CUTTING SHEET GLASS. CLIFFORD A. ROWLEY and JOSEPH A. REECE, Toledo, Ohio, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 4, 1922. Serial No. 534,235. 40 Claims. (Cl. 33—32.)



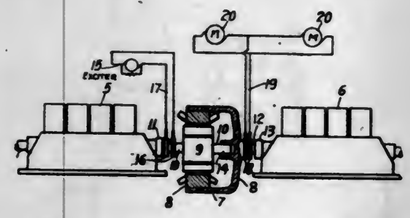
1. In combination with a conveyor for carrying a sheet of glass longitudinally, an automatic apparatus for transversely cutting the glass sheet, comprising a cutting tool, a carrier for the tool, means for drawing the tool across the sheet, means for moving the carrier with the sheet while the cutter is operating, and means for returning the parts to the starting position.

1,453,857. SLACK ADJUSTER. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Nov. 25, 1921. Serial No. 517,630. 12 Claims. (Cl. 188—199.)



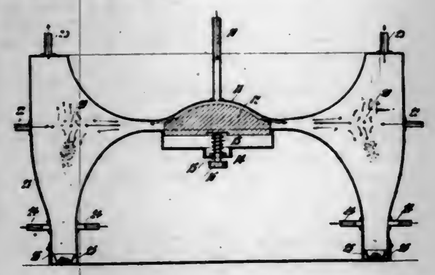
5. In an automatic slack adjuster, in combination, a brake beam having a tension member, a strut interposed between the beam and tension member, a live lever having a bifurcated portion enclosing said strut, and permanent and temporary take up and holding means mounted upon the strut and associated with the live lever, one of said means being operative on application of the brakes to temporarily take up the slack and operate upon the other of said means to permanently take up the slack on release of the brakes, said temporary and permanent take up and holding means including a housing, a dog coacting with the strut, and a spring holding the dog in canted relation whereby it is freely moved in one direction relatively to the strut to hold it against movement in the opposite direction.

1,453,858. POWER-DEVELOPING APPARATUS. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed July 21, 1919. Serial No. 312,295. 2 Claims. (Cl. 290—4.)



1. In a power-plant installation, the combination of two motors having casing elements and axially-alined power shafts adapted to rotate in opposite directions, a generator of the double-rotation type interposed between the motors, axially-alined shafts connected to the armature and field elements of the generator, and extending from opposite sides of said generator and alined with said power shafts, means for connecting one of said generator shafts to one of the power shafts, and a clutch for connecting the other of said generator shafts to the other power shaft or to the corresponding casing element, whereby, when both generator shafts are connected to the oppositely-rotating power shafts, the generator operates at high frequency, and, when one generator shaft is coupled to a casing element, the latter shaft is held stationary and the generator operates at a lower frequency.

1,453,859. MILK PRODUCT AND PROCESS OF MAKING THE SAME. CLARENCE S. STEVENS, Sheboygan, Wis. Filed Aug. 7, 1918. Serial No. 248,674. 8 Claims. (Cl. 99—11.)

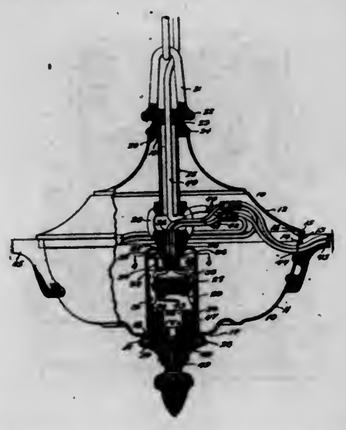


1. The process of making a powdered milk product, which consists in homogenizing the milk and then immediately thereafter and before precipitation of the homogenized milk particles, subjecting the homogenized milk to the action of steam at atmospheric pressure, to thereby evaporate the moisture of the homogenized milk and coagulate the albumen of the milk in the form of a dry enveloping sheath around the fat globules of the milk.

1,453,860. ATTACHMENT DEVICE FOR ELECTRIC FIXTURES. JOHN EDWARD WATSON, Philadelphia, Pa. Filed May 26, 1922. Serial No. 563,895. 6 Claims. (Cl. 240—78.)

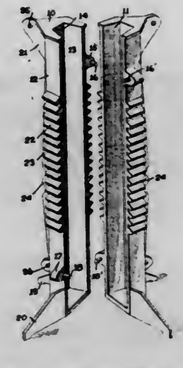
1. In combination with an electric fixture of the character described having a fixture body including two sections, with electric lamp-supporting means, of a connecting device for binding said sections together, one of said sections having a hole therein, said device having a casing extending through said hole and a part on the casing

for binding abutment with said latter section, said device including a portion connected to the other section, said



device having auxiliary electric attachment means connected thereto and located within the confines of said casing.

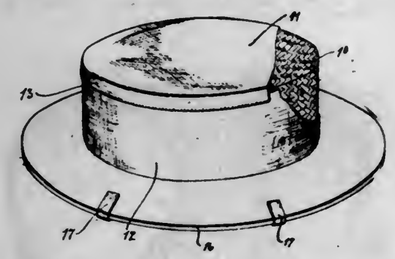
1,453,861. METAL-MOLDING APPARATUS. HENRY C. ZENKE, Richmond Hill, N. Y. Filed Nov. 14, 1921. Serial No. 514,918. 9 Claims. (Cl. 22—142.)



1. In apparatus of the character described, in combination, a mold including a pair of cooperating and separable parts adapted when in assembled relation to receive a molten metal, a member interposed between said parts for dividing the molten charge received by said parts into two pigs, means for aligning each of said parts with the said member and thereby with the other part, and means for clamping said parts and said interposed member together.

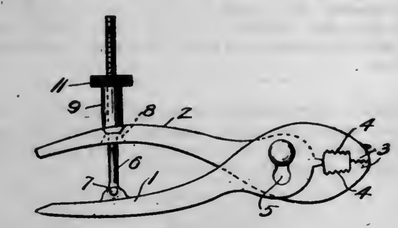
1,453,862. HAT PROTECTOR. JOSEPH M. CHECK, Wilkes-Barre, Pa. Filed Nov. 3, 1921. Serial No. 512,440. 1 Claim. (Cl. 2—108.)

In combination with a hat, a hat covering comprising a disc of waterproof material shaped to be disposed over the brim of the hat, said disc having an opening through which the crown of the hat extends, an upturned flange formed integral with said disc tightly fitting the crown, a band encircling said crown and flange, a cover over the top of the hat, a downturned flange formed at the edge of said cover overlying said band, strips secured to said disc, said strips extending under the brim of the



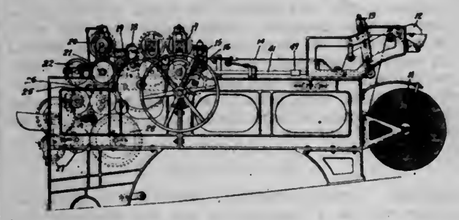
hat, snap fastener elements carried by said strips, and engaging means for said fastener elements permanently fixed in the brim of the hat.

1,453,863. PLIERS. RICHARD W. CONARD, Atlantic Highlands, N. J. Filed July 21, 1921. Serial No. 486,463. 3 Claims. (Cl. 294—41.)



1. In a hand tool of the type having hinged handle members, means for restricting the degree of separation of said handle members comprising a threaded bolt having one end pivotally attached to one of the handle members, the other handle member being provided with an opening having a greater diameter than the diameter of the bolt and through which the bolt extends, said opening having an outward.y flaring formation at each end, and a nut having threaded engagement with said bolt and having a reduced end formed for seating engagement with the outer end of said opening.

1,453,864. TUBING MACHINE. ALFRED C. COTY, Toledo, Ohio, assignor to The Watertown Bag Machine Co., Inc., Toledo, Ohio, a Corporation of New York. Filed Aug. 20, 1921. Serial No. 493,871. 11 Claims. (Cl. 93—11.)



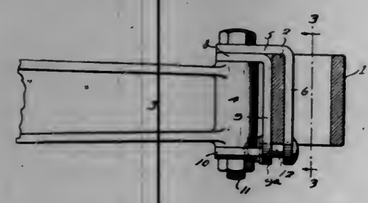
1. In tube-forming apparatus, the combination with means for applying paste along a predetermined line, of means for removing paste from the line at predetermined points.

1,453,865. METHOD OF CONSTRUCTING PNEUMATIC TIRES. FREDRICK S. DICKINSON, New York, N. Y., and JOHN SPRINGER, Atlantic Highlands, N. J., assignors to said Dickinson. Filed May 8, 1919. Serial No. 295,660. 15 Claims. (Cl. 154—14.)



1. The method of constructing the internal body fabric for the shoe or casing of pneumatic tires, which comprises laying a plurality of cord strip units, each consisting of a plurality of cord lengths assembled together side by side, and in contact throughout their length over a core or mandrel in successive position and contact side by side, whereby the plurality of respective multiple cord strip units will collectively cover the surface area of the core and anchoring the ends of said strip units at the bead-edge.

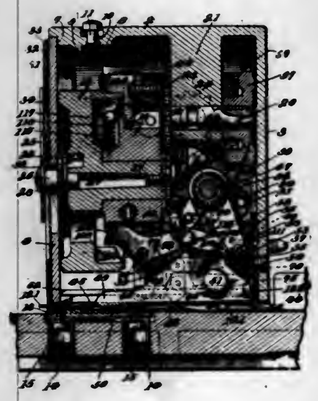
1,453,866. AUTOMOBILE BUMPER. WAYNE E. DUNSTON, Kalamazoo, Mich., assignor to Christian Girl, Kalamazoo, Mich. Filed Aug. 10, 1921. Serial No. 491,110. 6 Claims. (Cl. 293—55.)



4. The combination, with an arm having a sleeve or eye thereon, of a bumper bar and means for securing the same to said sleeve or eye, the said means comprising an inner U-shaped member adapted to receive said sleeve or eye between the upper and the lower ends thereof and having openings registering with the bore of such sleeve or eye, an outer member comprising an upper body portion and a portion bent at an angle thereto and provided with an opening adapted to register with the openings in the first member, the upper portion of the second member being of greater length than the upper end portion of the first member to provide a vertical slot therewith, the body portions of said members being provided with aligned apertures in the lower ends thereof, and one or more bolts in said apertures connecting the body portions of said member and extending across the bottom of said slot.

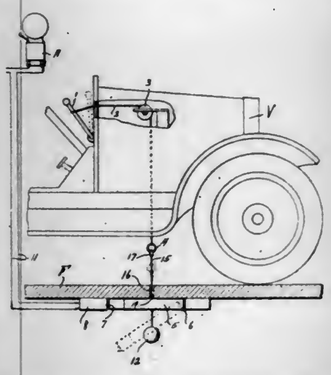
1,453,867. CHECK WRITER. BENJAMIN O. FANSLOW, New York, N. Y., assignor to New Era Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1921. Serial No. 465,801. 19 Claims. (Cl. 197—6.4.)

1. A check writer including in combination, a printing wheel, a platen, means for moving the printing wheel toward and from the platen, a feeding mechanism, a gage wheel, and means for positively locking the gage



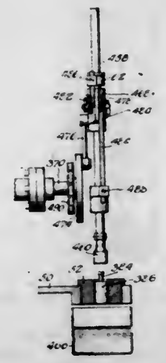
wheel prior to the movement of the printing wheel toward the platen for printing.

1,453,868. STARTING DEVICE. RODNEY C. FROHOCK, Augusta, Me. Filed Mar. 8, 1922. Serial No. 542,179. 1 Claim. (Cl. 177—383.)



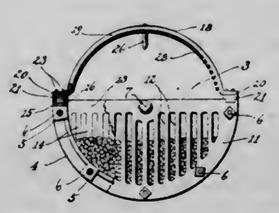
In combination with a movable member for closing the operating circuit of a starter of an engine and an alarm circuit, a member supported for swinging movement, a weighted member carried by the swinging member, a flexible member engaged with the movable member, the second flexible member engaged with the swinging member, a tension clamp carried by the second flexible member and engageable with the first named flexible member, means for holding the swinging member in one position and against movement under the influence of the weighted member carried thereby, means operatively engaged with the alarm circuit for releasing said holding means upon sounding of the alarm to permit the weighted member to drop, the dropping of the weighted member imposing sufficient pull upon the first named flexible member to move in closed position the member for closing the operating circuit of the starter, the tensioning clamp disengaging the first named flexible member upon pull being imposed upon the first named flexible member in addition to the pull created by the weighted member.

1,453,869. EJECTING MECHANISM FOR BATTERY-CORE-MAKING MACHINES. JOHN GRAVES, Madison, Wis., assignor to French Battery & Carbon Company, Madison, Wis., a Corporation of Wisconsin. Original application filed July 5, 1918, Serial No. 243,503. Divided and this application filed Mar. 14, 1921. Serial No. 452,072. 5 Claims. (Cl. 18—5.)



1. In a device of the class described, the combination of a fixed support, a plunger rotatable and reciprocatable with reference thereto, means for rotating said plunger, means for reciprocating said plunger, a spring member in connection with the rotating device adapted to apply spring tension to said plunger as it rotates.

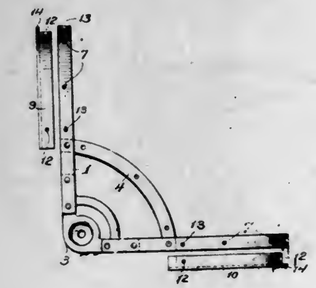
1,453,870. SIFTING GRATE. JOHN W. HARTMANN, Brooklyn, N. Y. Filed Oct. 14, 1920. Serial No. 416,925. 8 Claims. (Cl. 197—138.)



1. A grate comprising segmental end portions and intervening fuel-sustaining bars, combined with a removable arcuate and open-ended ash sifter arranged to receive materials from said fuel-sustaining bars when said grate is inverted.

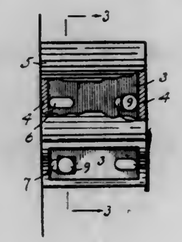
1,453,871. HOOD FOR CHILDREN'S CARRIAGES AND DOLL CARTS. AXEL W. HAWKINSON, Washington, Pa., assignor to Topliff-Ely Company, Washington, Pa. Filed Jan. 24, 1922. Serial No. 531,414. 3 Claims. (Cl. 296—135.)

1. A hood of the character described comprising a woven reed body, outer metal bows disposed upon the exterior of said woven reed body along the front and rear margins thereof, inner metal bows disposed against the inner surface of the body along the marginal front and rear portion of said woven reed body, and fastening means securing said bows in place, said inner bows each



having a flange at its outer edge lying across and abutting the front and rear marginal edges of the woven reed body.

1,453,872. GROUSER. ROE C. HAWKINS and ERNEST S. HIXSON, Long Beach, Calif. Filed May 23, 1922. Serial No. 562,974. 1 Claim. (Cl. 301—44.)

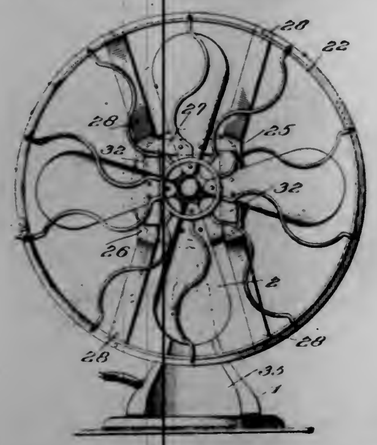


The combination with the wheels of a tractor having oppositely diagonal rows of apertures, of grousers having laterally elongated oppositely diagonal pairs of apertures adapted for respective alinement with said diagonal rows of apertures of the respective wheels, the spacing of said wheel apertures from the side edges of the wheels, with relation to the spacing between said wheel apertures and the width of said grousers, being such as to aline said oppositely diagonal pairs of elongated grouser apertures with said wheel apertures at opposite ends of said elongated apertures when said grousers are positioned at the respective side edges of a wheel with the outer sides of said grousers in alinement with the outer edges of said wheel, and fastening means adapted to be received through the alined apertures.

1,453,873. CONVERTIBLE FAN. DU VAL Q. HICKS, Fredericksburg, Va. Filed Apr. 2, 1921. Serial No. 458,144. 5 Claims. (Cl. 230—1.)

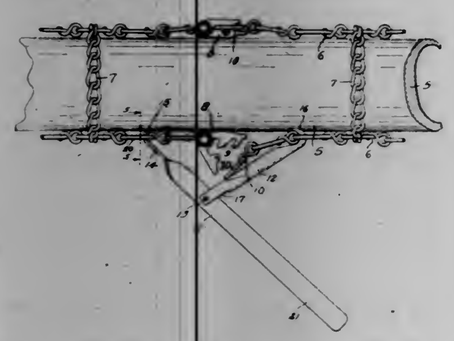
1. A device of the class described comprising a support, a motor mounted thereon having a shaft and a pair of spaced guideways, a fan, means forming a quick-detachable connection between said motor shaft and

said fan, a fan guard provided with an open peripheral portion and a pair of spaced guidestrips adapted to fit



into said guideways on said motor whereby said fan guard may be quickly detached from said fan.

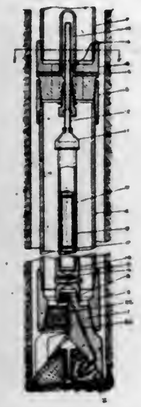
1,453,874. TOOL FOR ATTACHING AND REMOVING TIRE CHAINS. HOWARD F. HOTCHKISS, Bridgeport, Conn., assignor to The Bridgeport Chain Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 20, 1922. Serial No. 537,713. 1 Claim. (Cl. 254—78.)



As a new article of manufacture, a device for use in applying and removing anti-skid chains comprising a flat strap member with a portion at one end twisted so that it will extend transversely to the remaining portion and provided with means for engaging a chain link, and a second member pivoted to the first member and substantially U-shaped in cross section with the portion between the legs removed at the opposite ends thereof, said legs being adapted at one end to straddle the first member at said pivot and at the other end curved to form hooks to engage another chain link.

1,453,875. LUBRICATOR FOR EARTH-BORING DRILLS. HOWARD R. HUGHES, Los Angeles, Calif. Original application filed June 8, 1920, Serial No. 387,299. Divided and this application filed May 28, 1921. Serial No. 473,225. 9 Claims. (Cl. 255—71.)

1. In a rotary earth-boring drill, a drill head having rotary cutters thereon, a drill stem operatively engaged with the upper end of said head, a lubricator barrel attached to said head inside said drill stem, and connected with the bearings of said cutters, a piston on the lubricant therein, means to approximately equalize the fluid pressure in said lubricator during the operation of the



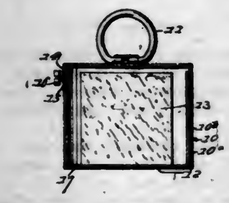
drill, and additional means to force said piston downwardly in the barrel.

1,453,876. MEASURING DEVICE. WILLIAM C. HUNTER, St. Louis, Mo. Filed Apr. 27, 1922. Serial No. 556,963. 1 Claim. (Cl. 33—143.)



A device of the class described comprising a strip of sheet metal having inturned side edges to provide guides, a fixed pointer extending laterally from one side edge thereof and a movable pointer also extending laterally in the same direction as the fixed pointer and including a plate mounted to slide in said guide, said plate having a rolled outturned finger grip for manipulating the pointer.

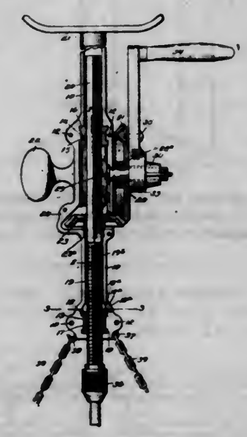
1,453,877. CUE-CHALK HOLDER. ROBERT SPENCER JOHNSON, New York, N. Y. Filed Apr. 20, 1921. Serial No. 462,851. 1 Claim. (Cl. 46—8.)



A chalk holder consisting of a receptacle comprising a pair of telescoping sections of which one is provided with

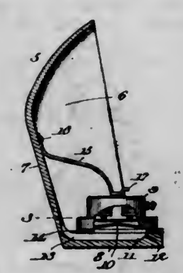
a closed end and equipped with means for attachment to a support, the other section being formed with an inturned angular flange defining an opening by which access is had to a contained block of chalk, the two members being formed with registering holes, and a set screw engaged in said holes and positively precluding relative longitudinal and angular movement of the members.

1,453,878. DRILL. GUSTAV P. LAGEMANN, Luverne, Minn. Filed July 19, 1921. Serial No. 485,854. 2 Claims. (Cl. 77—7.)



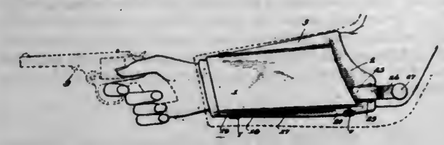
1. In an implement of the class described, a combined frame and casing having bearings arranged in spaced relation, a guide collar having an irregular bore of other form than round and mounted for rotation in one of said bearings, an internally threaded collar mounted for rotation in the other of said bearings, a stock member adapted to support a chuck device at one end and with a portion threaded to engage the threaded collar and another portion conforming to and slidable through the bore of the other collar, means supported by said casing for rotating said stock, means for locking said threaded bearing to the stock, and means for locking said threaded bearing to the casing.

1,453,879. AMPLIFIER. EDWARD A. LEFEBRE, Astoria, N. Y. Filed May 19, 1922. Serial No. 562,174. 8 Claims. (Cl. 181—27.)



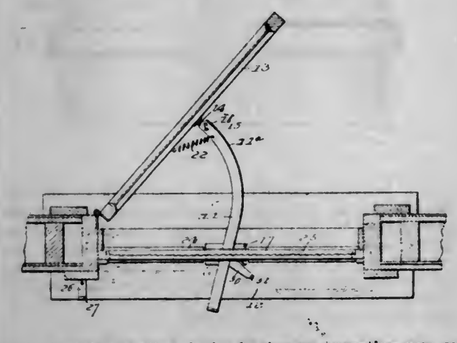
1. A sound amplifier embodying a sound board having grooved means, said means formed so that the groove thereof when associated with an acoustical instrument will define therewith a sound propagation duct opening directly to the sounding board.

1,453,880. PISTOL HOLSTER. OTTO F. LUDWIG, Zillah, Wash. Filed Apr. 13, 1922. Serial No. 552,140. 6 Claims. (Cl. 224—2.)



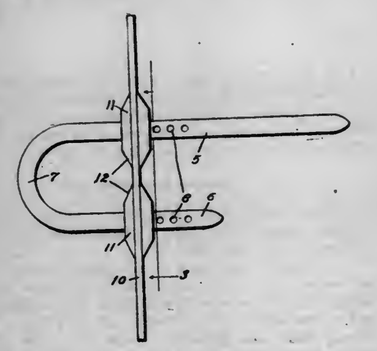
1. A pistol holster comprising a casing adapted to be carried upon the forearm and to receive a pistol therein, means for projecting the pistol from the casing into the hand, and yieldable means for normally holding said last named means from operation, substantially as described.

1,453,881. WINDOW-OPERATING DEVICE. SAMUEL T. MCCLARREN, St. Petersburg, Fla. Filed July 9, 1921. Serial No. 483,523. 3 Claims. (Cl. 268—15.)



1. A sash operating device having an operating arm or lever pivotally connected with the sash, a stationary guide on the casing through which the said arm or lever slides and means for locking the arm or lever in its adjusted positions, said means consisting of a cam disposed in contacting relation with a portion of the guide, the pivotal connection between the operating arm and the sash consisting of a stud on the latter and an obliquely disposed slot in the former, said end of the arm being yieldingly held with the stud in one end of the slot.

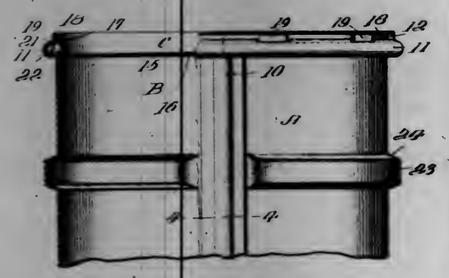
1,453,882. AUTO LOCK. JAMES N. MCHUGH, Lexington, Ill. Filed Apr. 5, 1921. Serial No. 458,709. 1 Claim. (Cl. 70—90.)



A lock for wheels including a body portion, said body portion comprising a length of metal bent intermediate

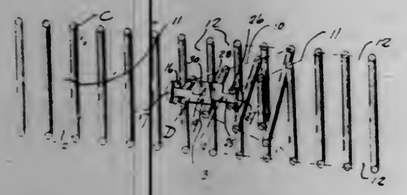
its ends to provide a relatively long arm and a short arm, the arms being provided with spaced openings, a movable arm having enlargements formed thereon, said enlargements being provided with openings to accommodate the first mentioned arms, said enlargements having tapered extremities, said movable arm having lateral extensions extending an appreciable distance beyond the side edges of the first mentioned arms, said lateral extensions forming hand-holds.

1,453,883. BARREL OR KEG. GEORGE EUGENE MITTINGER, Youngstown, Ohio. Filed Mar. 29, 1922. Serial No. 547,682. 3 Claims. (Cl. 220—55.)



1. A barrel or keg or the like, comprising a body portion having an outwardly extending flare adjacent its ends, a head having extending tongues, the tongues of the barrel heads inserted within openings provided in the upper face of the body flare portions, and the extending tongues adapted to be rolled backwardly upon themselves within the body flare portions for locking the heads in place to close the ends of the body.

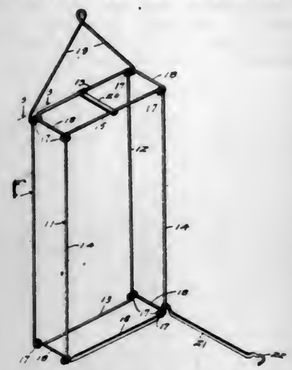
1,453,884. TIRE FILLER. VAN O. MOUTRAY, Muskogee, Okla. Filed June 3, 1921. Serial No. 474,615. 8 Claims. (Cl. 152—8.)



4. A tire filler of spiral spring formation having one end thereof receding in tapered formation, and the opposite end thereof outwardly projecting in tapered formation said projecting end adapted to be seated in said receding end for providing a filler of uniform diameter.

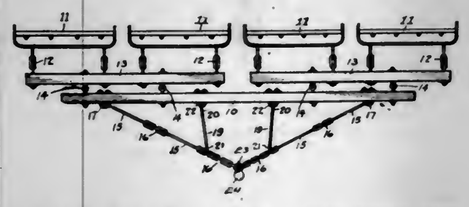
1,453,885. NECKTIE HOLDER. ANNA J. NELSON, Nome, Alaska. Filed Dec. 1, 1921. Serial No. 519,235. 3 Claims. (Cl. 223—19.)

1. A holder comprising a rear frame having side bars and upper and lower bars, a forward frame adapted to swing relatively thereto and from a collapsed position and having side bars and upper and lower bars, said bars having their end portions formed into eyes, connecting bars extending between the forward and rear frames and having their end portions formed into eyes registering with the eyes of the forward and rear frames, fasteners extending through the registered eyes to pivotally connect the connecting bars with the forward and rear frames whereby the forward frame may have vertical swinging



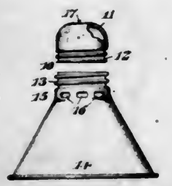
movement, means for limiting the downward swinging movement of the forward frame and means for clamping ties in engagement with the forward frame.

1,453,886. DRAFT EQUALIZER. ROY L. NOBLE, Sac City, Iowa. Filed Mar. 30, 1922. Serial No. 548,124. 1 Claim. (Cl. 55—84.)



A draft equalizer comprising a main evener beam, shorter evener beams coupled to the main evener beam at opposite sides of the center thereof and adapted to be hitched to the implements to be drawn, a draft appliance coupled at its ends near the ends of the main evener beam, and stay members each coupled at one end to the draft appliance at one side of the center thereof and at their other ends to the main evener beam intermediate the ends of the same.

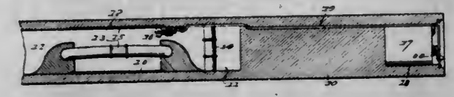
1,453,887. ELECTRIC-LAMP FIXTURE OR SUPPORT. NORMAN W. NUTT, Trenton, N. J. Filed Mar. 1, 1922. Serial No. 540,256. 1 Claim. (Cl. 240—115.)



An electric lamp husk comprising a hollow upper section cylindrical throughout and having a top portion formed with a central opening, the lower terminal portion of said section being threaded internally and externally and with the threads thereof terminating at the lower edge of said section, a lower section including a cylindrical upper portion and a flaring lower portion, said

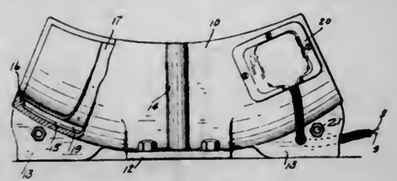
upper portion having its upper part threaded internally and externally for engagement with the threads of the upper section and further for engagement with the threads of a lamp socket and said upper portion having the lower part thereof formed with a series of openings spaced from said flaring portion of said lower section.

1,453,888. SPIRIT LEVEL. WILLIAM EARL WINNER and CHARLES C. PATTERSON, Lowell, Mass. Filed Feb. 16, 1921. Serial No. 445,380. 1 Claim. (Cl. 240—8.4.)



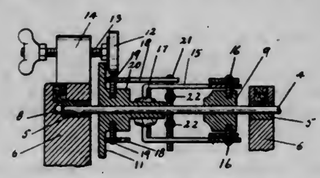
A leveling instrument having a stock or bar having a longitudinal slot forming a bubble glass chamber, transparent panels disposed on opposite sides of the stock and enclosing said chamber, a bubble glass disposed in said chamber and in longitudinal alignment with the stock, mirrors disposed in the chamber above and below the plane of the bubble glass and facing the same so that when the stock is either above or below the horizontal plane of the eye the reflection of the bubble glass will be apparent in one or the other of said mirrors, and a lighting unit disposed in the chamber in overlapping relation to one of the mirrors and adjacent one end of the bubble glass.

1,453,889. TIRE VULCANIZER. EVEN J. ROHNE, Minneapolis, Minn. Filed Jan. 8, 1921. Serial No. 435,921. 11 Claims. (Cl. 219—19.)



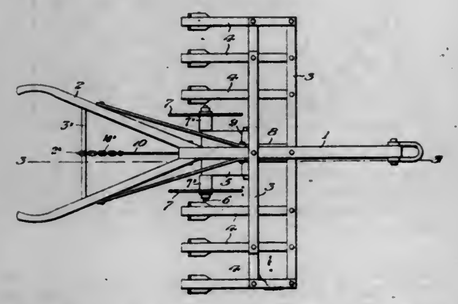
1. A vulcanizing apparatus comprising a plurality of heating circuits permanently connected to the current supplying members and adapted to supply a suitable degree of heat but not capable of overheating the vulcanizer, and a plurality of additional controlled circuits each separately and automatically controlled for supplying additional heat to the vulcanizer and to be cut out when the temperature rises beyond a determined point.

1,453,890. SPEED-REGULATING DEVICE. CYRUS C. SHIGLEY, Grand Rapids, Mich., assignor to Electric Phonograph Company, Kalamazoo, Mich. Filed May 14, 1920. Serial No. 381,356. 5 Claims. (Cl. 188—187.)



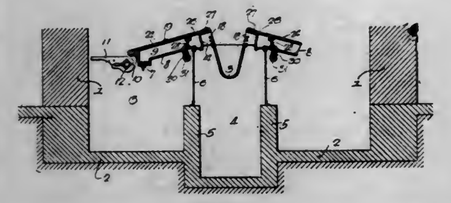
3. In a structure of the class described, the combination of a driven governor spindle, a friction disk slidably mounted on said spindle, a collar fixed to said spindle, a pair of U-shaped governor arms having governor weights on their cross portions disposed with their arms embracing said collar and pivotally mounted thereon, a link connecting each of said governor arms to said friction disk, said links being disposed oppositely, screws extending across said governor arms and constituting attaching pivots for said links, a pair of coiled springs disposed on the opposite sides of the spindle with their ends engaged with said screws, and a friction member mounted for adjustment to coact with said friction disk.

1,453,891. CULTIVATOR FENDER. JOSEPH W. SIVLEY, Trinity, Ala. Filed May 11, 1920. Serial No. 380,573. 1 Claim. (Cl. 97—188.)



In a cultivator, the combination of a beam, handles fixed thereto, transverse bars fixed to and extending laterally at opposite sides of the beam, a metallic bar fixed to the undersides of the said transverse bars and arranged in the same vertical plane as the beam, cultivator teeth carried by the said transverse bars and arranged at opposite sides of a space extending at opposite sides of the vertical plane of the beam, a vertically-swinging plate-like hanger hingedly connected at its forward end to the said metallic bar and having portions arranged at opposite sides of the rear end of said bar and also having a barrel at its lower end, a shaft in said barrel, rolling toothed disks on said shaft and maintained in spaced relation to the edges of the hanger, means carried by the handles, and means connected to the hanger and constructed and arranged to be adjustably connected to the said means on the handles.

1,453,892. UNDERFEED STOKER. PETER E. SMITH, Philadelphia, Pa. Filed Feb. 21, 1922. Serial No. 538,244. 14 Claims. (Cl. 110—47.)

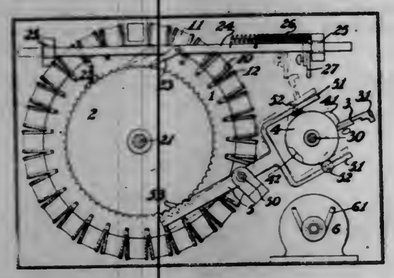


1. The combination in a stoker of a retort; a series of stationary air boxes extending at right angles to said retort; tuyère plates longitudinally slidable on the air boxes respectively; means for supplying air under pressure to the air boxes; and means for reciprocating the tuyère plates.

1,453,893. LANTERN-SLIDE PROJECTING APPARATUS. RICHARD C. SMITH, Seattle, Wash. Filed Apr. 20, 1921. Serial No. 462,874. 7 Claims. (Cl. 88—27.)

1. In a lantern slide projecting apparatus, in combination with a slide-carrying member, intermittent feed

mechanism therefor, operable to advance the slide-carrying member and to maintain it advanced momentarily after an advance, cams movable in conjunction with said feed mechanism, and a locking member engageable with



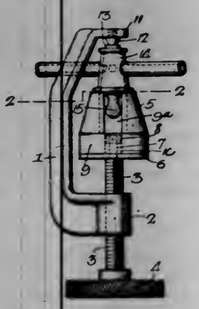
said slide-carrying member while it is held in advanced position and controlled by said cams to secure the slide-carrying member in fixed position during the inaction of the feed mechanism and to release it to permit its advance.

1,453,894. ROLLER-SKATE ROLL. ARTHUR L. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed May 6, 1921. Serial No. 467,234. 7 Claims. (Cl. 46—52.)



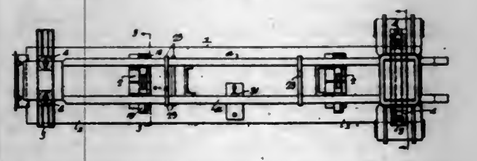
1. A skate roll comprising two side plates having inwardly bent rim portions abutting in edge-to-edge contact only, intermediate annular web portions disposed in closely adjacent parallel relation, and outwardly bent hub portions, said hub portions having inner concave faces to provide ball races, said rim, web and hub portions being integral in each side plate, and means for rigidly securing together said side plates at the parallel web portions thereof.

1,453,895. STOPCOCK REMOVER. CLEMENT K. SWIFT, Highland Park, Pa., assignor of one-half to Milton I. Hartman and Andrew Hartman, both of Philadelphia, Pa., trading as H. S. Laboratory. Filed Dec. 22, 1921. Serial No. 524,173. 3 Claims. (Cl. 29—86.1.)



1. In a device of the character described, the combination with two relatively movable elements, of a head secured to one of the elements and adapted to engage the body of a stop cock and to receive and retain the plug of the cock when the latter leaves the body, a member on the other element adapted to engage the base of said plug, and means for effecting a relative movement of the elements to create an axial pressure upon the plug tending to force it from the body.

1,453,896. JIG FOR ASSEMBLING LOCOMOTIVE FRAMES. JOHN P. SYKES, Wallingford, and HARMON E. STOVER, Philadelphia, Pa., assignors to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1922. Serial No. 550,015. 7 Claims. (Cl. 29—89.)



1. The combination in a jig for assembling locomotive and other frames, of saddles, each saddle having a standard; and a bracket projecting at each end of the standard and shaped to extend into an axle box space of the frames and of such a width that, when the cap plates, which close the bottoms of these spaces, are removed, the frames with the assembled parts thereon, can be raised clear of the saddles.

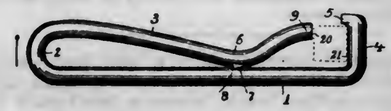
1,453,897. POCKETKNIFE. FRANZ VINCENT, Bridgeport, Conn. Filed July 2, 1921. Serial No. 482,060. 9 Claims. (Cl. 30—10.)



2. In a device of the class described, a tubular handle, an instrument guided to slide within said handle to exposed or retract the same, a spring blade in the handle secured thereto and extending longitudinally thereof and provided with longitudinally spaced stop shoulders adapted to cooperate with the instrument to detain it in either extended or retracted position, and means including a cam element operable exteriorly of the handle to control the operation of said spring.

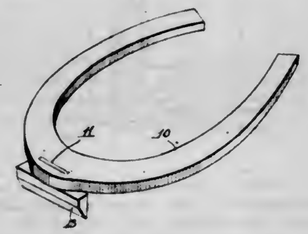
1,453,898. WRENCH. FREDERICK E. WALDEN, Worcester, Mass., assignor, by mesne assignments, to Walden-Stax Manufacturing Co., Stoneham, Mass., a Corporation of Massachusetts. Filed Dec. 18, 1920, Serial No. 431,735. Renewed Nov. 11, 1922. Serial No. 600,475. 4 Claims. (Cl. 81—119.)

1. A wrench comprising two resiliently united but substantially parallel members, one having an elbow at its outer extremity, and the other presenting its end to the outer part of said elbow but spaced therefrom, means



being provided for preventing said elbow from being bent away from the end surface of the other member.

1,453,899. METHOD OF SECURING CALKS TO HORSESHOES. DOUGLAS YENSEN, Roseberry, Idaho. Filed Feb. 26, 1920. Serial No. 361,538. 1 Claim. (Cl. 59—61.)



The method of securing a toe calk to a horseshoe which consists in forming the shoe with an elongated wedge-shaped slot and flaring the mouth of the slot at the narrow end to provide a bead pocket, forming the calk with a wedge-shaped tenon to fit through the slot, heating the shoe and calk simultaneously, and welding the tenon in place by beading it on the end to provide a head filling the flared mouth or pocket of the slot and locking the calk to the shoe.

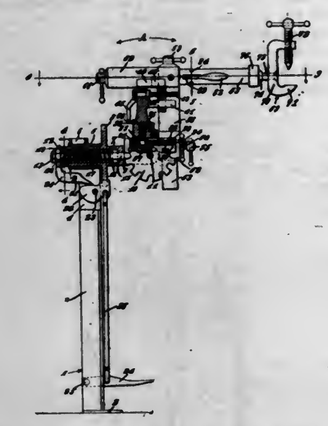
1,453,900. RULER ATTACHMENT. JOHN J. AHEARN, Palmer, N. Y. Filed Apr. 27, 1921. Serial No. 464,829. 1 Claim. (Cl. 120—1.)



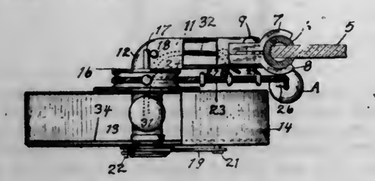
A ruler attachment comprising a ruler body having a portion at one end cut away to provide a tongue, a blade having its side edges and one end sharpened and its other end enlarged and offset and secured to the top face of the body with the portion of the blade having the cutting edges disposed within the cut out portion of the body, said blade lying within the sides of the body and transversely tilted to permit the tongue to engage an envelope while being cut by said blade.

1,453,901. WORK SUPPORT. CHRISTIAN S. ANDREASEN, Dwight, Ill. Filed Apr. 20, 1922. Serial No. 555,750. 11 Claims. (Cl. 78—101.)

11. In a device of the class described, a pair of arms; means for connecting the arms adjustable; a first slide; means for mounting the first slide for adjustment transversely of one arm; means for holding the slide in adjusted positions; a second slide adjustable on the first slide transversely thereof; a workholder; a ball and socket connection between the work holder and the second slide; a work holder on the other arm and cooperating with the first specified work holder; and a support carried by one arm.

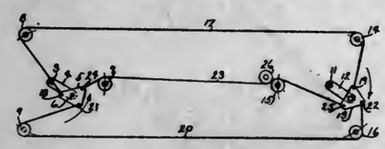


1,453,902. DIRECTION INDICATOR. HOMER L. ARNOLD, Arcata, Calif. Filed Oct. 2, 1922. Serial No. 591,909. 1 Claim. (Cl. 116—47.)



In a device of the character described, the combination with a support, a tubular member extending outwardly from said support and having a hub portion thereof formed at right angles thereto, a drum rotatably mounted on said hub, a window formed in said drum, a pulley secured to said drum, a cable having one end secured to said pulley and extending thereabout, said cable extending to a point remote from said drum, rings secured to said cable for the purpose of retaining said cable in adjusted position, a spring coiled about said hub and having its opposite end abutting a pin mounted on said drum, a segmental member mounted upon said hub and within said drum, said segmental member being formed of wire gauze, characters formed on said segmental member, and means for illuminating the interior of said drum.

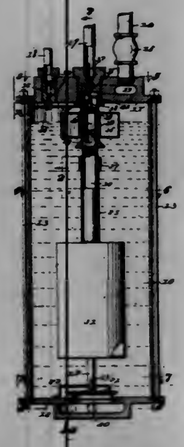
1,453,903. POWER-TRANSMITTING MECHANISM. GEORGE M. ASK, Corning, Calif. Filed July 24, 1922. Serial No. 577,126. 2 Claims. (Cl. 74—14.)



1. A mechanism of the character indicated, comprising a plate mounted to revolve upon its own center and to revolve as a whole about a given center, supports lying

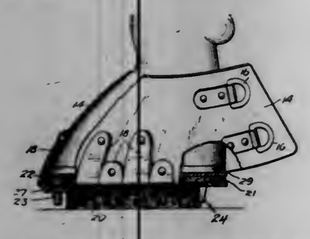
in a circle concentric with said given center, cables engaging said supports and attached at equally spaced points to said plate, a second plate operatively mounted to revolve on its own center and to revolve as a whole about a given center, supports lying in a circle concentric with said last named given center, the said cables engaging said last named supports and attached at equally spaced points to said last named plate.

1,453,904. PNEUMATIC PUMP. ERASMUS W. BECK, Griffin, Ga. Filed Apr. 24, 1920. Serial No. 376,248. 4 Claims. (Cl. 103—248.)



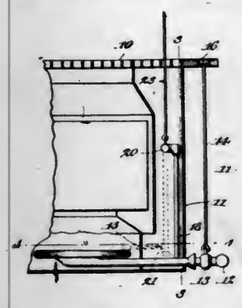
1. A pneumatic pump having a submerged reservoir provided near its bottom with an inlet and outlet for liquid, the former being controlled by an inwardly opening valve, pressure inlet and relief valves controlling pressure inlet and exhaust ports in communication with the reservoir near its top, said inlet and relief valves being respectively mounted for inward seating and unseating movements, a trip mechanism arranged in operative relation with the inlet valve, an operating member mounted for reciprocatory movement and having an element of said trip mechanism arranged in the path of upward movement thereof, a cushioned connection between said operating member and the relief valve, a buoyant member for said operating member, a retainer for securing the operating member in its depressed position, and a float movable into and out of the plane of the retainer for alternately locking and releasing the same.

1,453,905. OVERSHOE FOR HORSES. MABEL BLACKMAN, New York, N. Y., assignor to Arthur S. Joseph, New York, N. Y. Filed May 5, 1921. Serial No. 466,964. 2 Claims. (Cl. 168—1.)



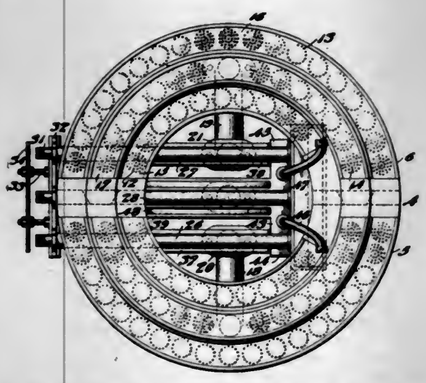
1. An overshoe for horses comprising a boot having a flexible top and rigid bottom; a wearing plate shaped in correspondence with the bottom of said boot; means for removably attaching said plate to said boot for service in connection therewith; and a flexible pad mounted on said plate for engaging the road-bed on which the said overshoe is worn.

1,453,906. LIGHTING DEVICE FOR GAS. ROBERT BOONE, Asbury Park, N. J., assignor, by mesne assignments, to Boone Heater Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 13, 1921. Serial No. 500,376. 3 Claims. (Cl. 158—115.)



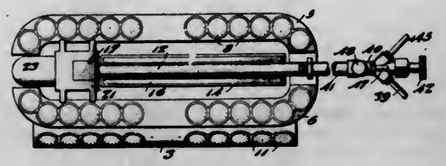
3. In a device of the class described, the combination with the burner of a floor heater, a frame provided with an aperture and arranged over said burner, a manifold, a vertical pipe connected with said manifold, a pilot light pivoted to said vertical pipe, and means extending above the floor for moving said pilot light into register with said aperture.

1,453,907. OIL BURNER FOR FURNACES. WILLIAM H. BOZARTH, Vineland, N. J. Filed Sept. 4, 1920. Serial No. 408,159. 3 Claims. (Cl. 158—61.)



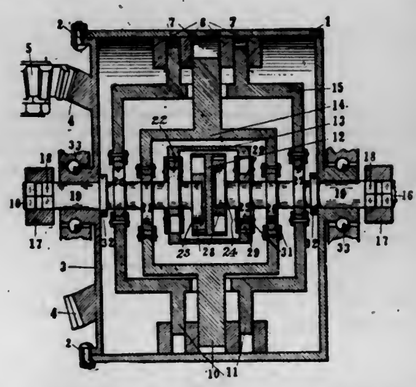
3. An oil burner for furnaces including with a gas consuming burner to be fitted in the fire pot of the furnace, supporting legs by which said burner is maintained at an elevation above the furnace grate, an air box supported beneath the burner at one side, horizontally disposed generator tubes to be connected with an oil supply having their inner ends extended into the air box and provided with gas discharge openings, gas supply pipes receiving gas from the discharge openings of the generator tubes and extended to conduct the gas to the burner, a subgenerator tube, a subgenerator burner located beneath the subgenerator tube provided with an extension head adjacent the air box, pilot burners on said extension head beneath the generator tubes, pipes from said extension head provided with pilot tips adjacent the burner openings of the main burner, and a gas conveying pipe conducting gas formed in said subgenerator tube to the subgenerator burner and the extension head thereof.

1,453,908. OIL BURNER FOR STOVES. WILLIAM H. BOZARTH, Vineland, N. J. Filed July 26, 1921. Serial No. 487,714. 9 Claims. (Cl. 158—61.)



9. An oil burner including with gas consuming burners, a gas generator, a generator burner, a manifold to which the gas is discharged from the generator connected to supply gas to the main and generator burners, a steam generating coil within the casing of the generator burner, a valve casing connected with the generator and having oil and steam passages opening thereinto through the valve seat, a connection from the steam generating coil to the steam passage, an oil supply connection to the oil passage, and a needle valve to close against the seat within the casing and to give equal control at the oil and steam passages.

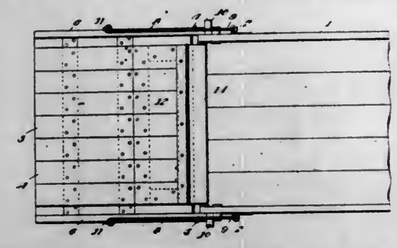
1,453,909. DIFFERENTIAL FOR MOTOR VEHICLES. HENRY E. BRIAIS, New York, N. Y. Filed Apr. 6, 1922. Serial No. 550,083. 8 Claims. (Cl. 74—7.)



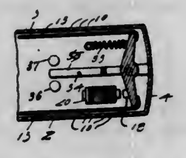
1. A differential mechanism comprising driving mechanism, a plurality of shafts to be driven, cams on said shaft, and a plurality of nested blocks between said shafts and driving mechanism, said blocks being operable by said cams as and for the purpose set forth.

1,453,910. WAGON ATTACHMENT. ALBERT E. BRIGHT, Idagrove, Iowa, assignor of one-half to William Auchstetter, Idagrove, Iowa. Filed Aug. 10, 1922. Serial No. 580,936. 1 Claim. (Cl. 296—59.)

In combination with a wagon box, an end gate consisting of bottom and side parts, a hinged door in the bottom, latch means for the same, a hinged flap at the bottom of the door for engaging the end edge of the bottom of the box, links pivoted to the sides of the gate, swiveled eyelets on the sides of the wagon box for receiving said links, said links having their outer ends of hook-shape, latches on the sides of the gate for receiving parts of the links to hold the gate in closed position, projections at the sides of the box and notches in the sides of the gate for engaging the projections for swingingly supporting the gate upon the box.

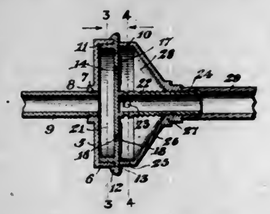


1,453,911. AUTOMOBILE SIGNAL. NORTON BROWNE, Chelan, Wash. Filed Mar. 26, 1920. Serial No. 368,974. 4 Claims. (Cl. 177—337.)



3. An automobile signal comprising a casing having slotted front and rear walls, supporting members pivoted in said casing, screens secured to the supporting members, groups of characters applied to the screens, said casing having its front and rear walls of a color corresponding to the characters, illuminating means in said casing of different colors and means for illuminating the illuminating means and for imparting movement to the supporting members.

1,453,912. FUEL MIXER. MCKIM C. BUCKLEY and HARRY KENDRICK, Franklin, Pa. Filed Sept. 7, 1922. Serial No. 586,718. 6 Claims. (Cl. 251—119.)

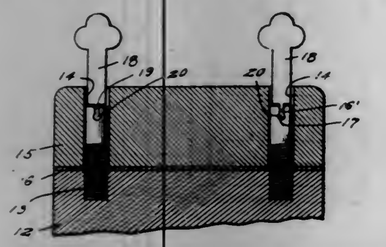


1. An air intake device for the purpose set forth comprising means to provide a pair of air chambers communicating with each other and having the points of communication normally closed, and a pair of suction operated elements for controlling communication between said chambers, one of said elements operated from each end thereof and the other of said elements operated from one end thereof.

1,453,913. CYLINDER-HEAD GUIDE STUD AND REMOVING KEY. ARTHUR G. BURDICK, New London, Conn. Filed Mar. 15, 1921. Serial No. 452,438. 2 Claims. (Cl. 29—84.)

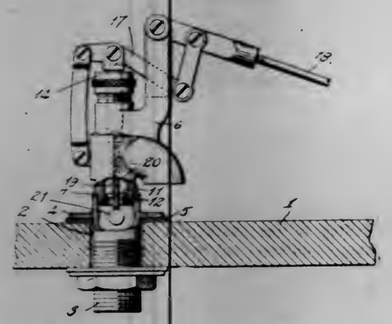
1. In combination with a head adapted to be secured in place by a detachable fastening which occupies holes in

the head and in the element which the head engages, a positioning stud disposable in said holes in the assembling of the head, and means separably engageable with the



stud to lift the same from the holes after positioning of the head, and said stud being of less length than the depth of the hole of the head.

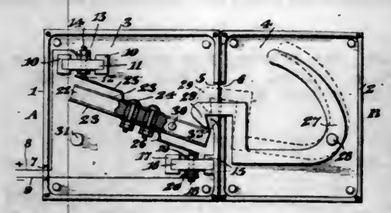
1,453,914. FLUSH-TANK VALVE. JOHN H. CABLE, Montclair, N. J. Filed July 8, 1919. Serial No. 309,269. 1 Claim. (Cl. 137—104.)



A flush tank valve comprising a body having a bore therein, a chamber communicating with said bore, an inlet and an outlet communicating with said chamber, a removable valve seat arranged at the inlet end of said chamber, a valve stem slidable in said bore, said valve stem having a reduced extension projecting through the chamber and below the valve seat, a removable globular member secured to the lower end of said reduced extension for cooperation with said valve seat, a plurality of vertical grooves arranged in the reduced extension, said grooves extending below the valve seat when the globular member is in a fully open position, a coupling having a watertight connection with the body, and means responsive to the rise and fall of water comprising a lever which is pivotally connected to said stem and has pivotal connection with a pair of links one of which is pivoted to said body and the other of which is a floating link, and a pivoted float lever having connection with said floating links.

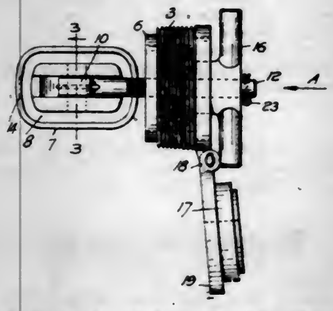
1,453,915. ELEVATOR-DOOR LOCK. CHARLES W. CARR, ROBERT J. DIXON, and PETER W. CONOVER, Ogden, Utah. Filed Mar. 2, 1922. Serial No. 540,425. 3 Claims. (Cl. 187—31.)

2. An elevator door lock comprising two coacting castings, with one casing on the door and the other casing carried by and movable with the elevator, a pivoted, overbalanced catch carried by the first named casing and movable into the second named casing, and a rockable contact arm carried by the second named casing and having spaced contact terminals in the path of the opposite ends of the rockable contact arm, and bridged by said contact arm when rocked by engagement therewith of the overbalanced catch, each of the spaced contacts being fixedly mounted in the casing appertaining thereto and



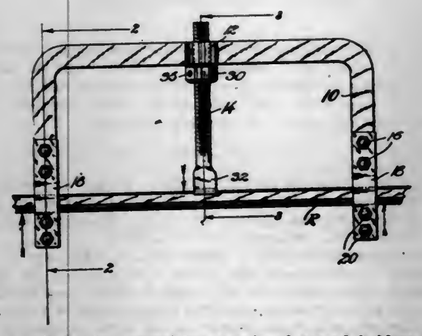
the rockable contact arm having joined contact fingers at opposite ends movable into engagement with the spaced contacts to bridge them.

1,453,916. WASHOUT PLUG FOR BOILERS. JACOB CASHMER, Denver, Colo., assignor, by mesne assignments, to Universal Safety Washout Plug Company, a Corporation of Colorado. Filed Mar. 9, 1921. Serial No. 450,957. 12 Claims. (Cl. 137—76.)



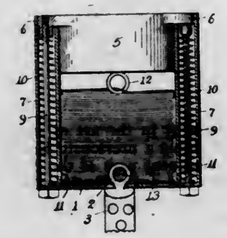
1. A device of the character described comprising a hollow body member adapted to be secured in an opening of a boiler wall, a cover member movable through said body member and adapted to close the same by engagement with an end thereof, a retaining screw pivoted on the cover member, and a nut on the screw acting upon the opposite end of the body-member to hold the cover member in its closing position.

1,453,917. RAIL-BENDING DEVICE. PAUL E. CHAMBERS, Walsen, Colo. Filed July 18, 1921. Serial No. 485,607. 1 Claim. (Cl. 153—38.)



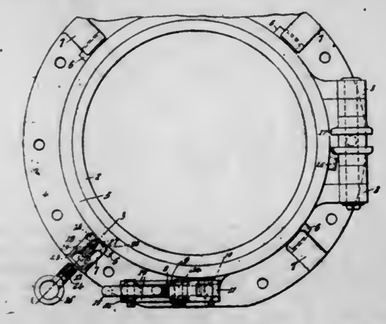
A rail bender comprising a pair of spaced holders to prevent movement of a rail in one direction and a movable member connected with said holders and adapted to move an intermediate portion of the rail in the opposite direction, each holder comprising a pair of spaced jaws forming a closed loop, said jaws being secured together at their outer ends and being shouldered to receive the ball of the rail and spread to receive the base of the rail with said base directed toward said member for engagement thereby.

1,453,918. MEANS FOR SALVAGING VESSELS. EWEN A. CLARK, Revere, Mass., assignor of one-half to Alfred J. Berg, Kittery, Me. Filed May 3, 1922. Serial No. 558,071. 3 Claims. (Cl. 114—50.)



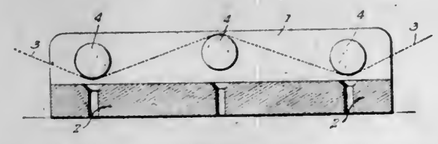
2. The combination of a receptacle designed to be attached to a vessel and having two diametrically opposite chambers, a float fitted to the upper part of the receptacle and having ears located in the upper ends of said chambers, releasable means for holding said ears in place, a spring located in each chamber acting against said ears for throwing the float outward when the ears are released, and a cord attached to said float and receptacle and packed in the latter.

1,453,919. LOCKING DEVICE FOR COVERS OF PORT-HOLES OF SHIP'S OR OTHER OPENINGS. JOHN H. CLARKE, London, England. Filed Dec. 6, 1921. Serial No. 520,429. 1 Claim. (Cl. 114—178.)



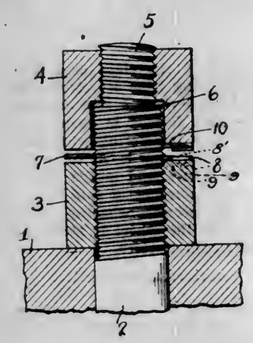
Means for closing and opening openings in the sides of ships, the said means comprising in combination a fixed base ring, a locking ring rotatably mounted in said carrier ring, dogs spaced round said base ring, wedge shaped lugs on said locking ring, a socket hinged to a lug of said locking ring, a lever screw-threaded in said socket, a link connected by a triaxial joint to said carrier and by a biaxial joint to said lever, one of said dogs having a bore, a bolt slidable in said bore and having a bevel and a straight shoulder on its free end, the wedge-shaped lug with which said bored dog is associated having a notch and a straight shoulder and provided on its leading edge with a bevel to engage, when in the closing position, with the bevel on the end of said bolt, and the straight shoulder on the notch engaging in the closed position with the straight shoulder on the end of the bolt, and a spring in said bore adapted to force said bolt into engagement with said notch and lock said locking ring against rotation in one direction.

1,453,920. FILM-WAXING MACHINE. MAURICE E. CLARK, Grenada, Miss. Filed Nov. 22, 1921. Serial No. 517,068. 2 Claims. (Cl. 91—10.)



2. In a waxing means for motion picture film ribbons, a guide comprising parallel side members, which are spaced from each other only a slightly greater distance than the width of the film to be drawn therebetween, said sides having opposed round openings arranged adjacent to its ends and at its center, the central openings being arranged slightly above the end openings, rounded paraffin sticks inserted through the openings from the outer sides of the guide and projected through the openings a distance to engage with the marginal edges of the film ribbon, and the said film ribbon being threaded between the projecting edges of the paraffin sticks whereby the upper marginal edges of the films will be in contact with the end sticks and the lower marginal edges of the said films will be in contact with the center sticks.

1,453,921. NUT LOCK. CHARLES W. CLINE, Augusta, Kans. Filed Sept. 23, 1921. Serial No. 502,743. 1 Claim. (Cl. 151—17.)

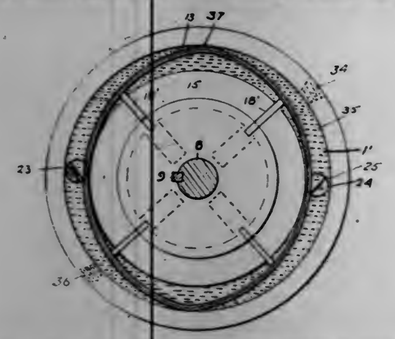


A lock nut of the class described comprising a bolt having a reduced end having left hand screw threads thereon, a main nut engaging the bolt and having a notch in its outer end, a nib in said notch, a second nut having left hand screw threads for engaging the reduced end and teeth on its inner face and a split spring washer having a bent end engaging the notch with a notch therein to engage the nib, the other end of the washer engaging one of the teeth.

1,453,922. COUPLING DEVICE. LE ROY P. CLUTTER, Uniontown, Pa. Filed Feb. 5, 1921. Serial No. 442,613. 3 Claims. (Cl. 192—58.)

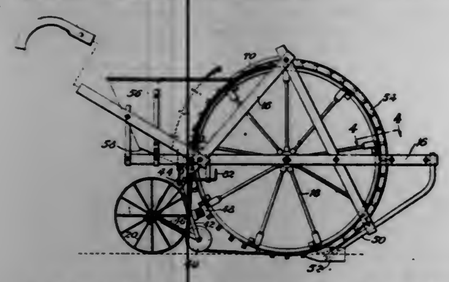
3. A coupling device comprising a driving element, a driven element, a body of fluid interposed between said elements, a laminated resilient annulus interposed between said elements in said fluid, and a pair of simulta-

neously operable cams for shifting the annulus to impact at two points against the driven element causing thereby



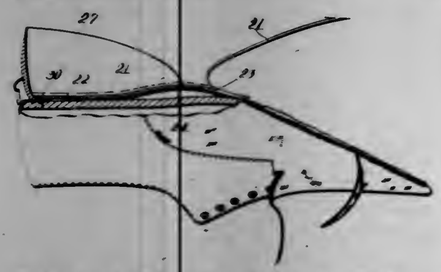
a compacting of the fluid whereby the driven element is operated from the driving element.

1,453,923. BULB PLANTER. TEUNIS DE YOUNG, Jr., South Holland, Ill. Filed Mar. 6, 1922. Serial No. 541,537. 4 Claims. (Cl. 221—125.)



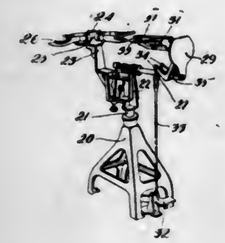
1. In mechanism of the class described, a rotatable wheel having projecting from its circumference suitably spaced bulb carrying devices, a rope enclosing said wheel and entering recesses formed in each of said bulb carrying devices without interfering with bulbs carried by said devices while the rope is in contact with the circumference of the wheel, and means carrying said rope away from the circumference of said main wheel during a certain arc of its rotation, whereby as the rope leaves the circumference of the wheel it strips bulbs and dirt from the sucessive bulb carriers.

1,453,924. TURN SHOE. MILTON L. DODGE, Newburyport, Mass. Filed Sept. 25, 1920. Serial No. 412,780. 9 Claims. (Cl. 36—76.)



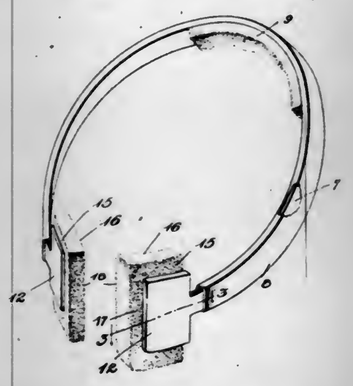
3. As a new article of manufacture, a combined counter stiffener and shank piece, said shank piece having its heel portion split parallel to its face.

1,453,925. MANUFACTURE OF TURN SHOES AND APPARATUS FOR USE THEREIN. MILTON L. DODGE, Newburyport, Mass. Filed Dec. 11, 1920. Serial No. 429,854. 11 Claims. (Cl. 12—57.)



1. That improvement in the art of making turn shoes which comprises holding a previously molded form, adapted to become a permanent part of the finished shoe, in a stationary position and unattached to the shoe, and then turning the partially completed shoe over and about such form to inclose it.

1,453,926. DEVICE FOR REMOVING FACIAL WRINKLES. HONOR L. EAGER, Brooklyn, N. Y. Filed Feb. 6, 1922. Serial No. 534,351. 2 Claims. (Cl. 128—76.)

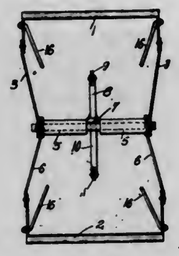


1. In a device for removing facial wrinkles, in combination, a resilient band, an envelope for said band terminating short of the ends thereof, face engaging pads, a pad pressing member coacting with each pad, the edges of said members spaced from the ends and one side edge of each pad, the ends of the band engaging the central portions of said members whereby to equalize the pressure over the whole surface of each pad, an envelope for said members surrounding the ends of said band and overlapped by said band envelope whereby to adjust the effective length of said device.

1,453,927. GRAB BUCKET. WARREN J. EATON, Midland, Pa. Filed May 2, 1921. Serial No. 466,063. 2 Claims. (Cl. 37—185.)

1. In a device of the character described comprising companion spade members, a pivot secured to one of said spade members, sleeves surrounding the pivot and being secured to the other spade member, a bridge element connecting the confronting ends of the sleeves, an

operating arm carried by the bridge element, an operating arm carried by the pivot and adapted to swing in

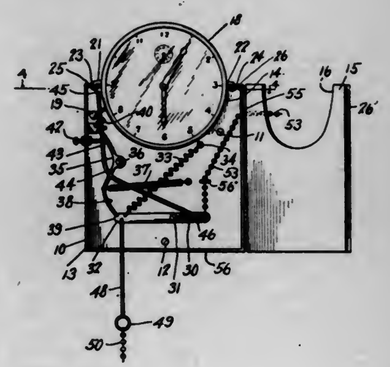


the same plane with the first mentioned arm, and means associated with the arms to operate the spade members in unison.

1,453,928. ALUMINUM-SILICON ALLOY AND METHOD OF MAKING IT. JUNIUS D. EDWARDS, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1922. Serial No. 544,950. 14 Claims. (Cl. 75—1.)

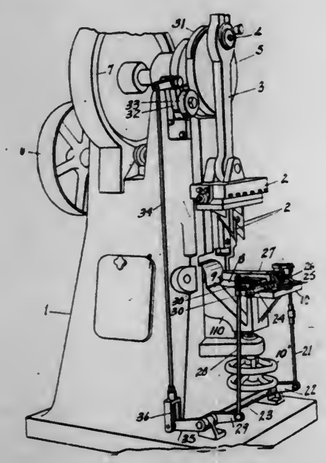
1. In the art of making articles of an aluminum alloy containing a substantial amount of silicon, the improvement comprising incorporating in a finely divided state in the molten alloy a metalloid of the fifth group of the periodic system of the elements, having an atomic weight greater than 100, and thereby favorably affecting the strength and ductility of the resulting alloy.

1,453,929. TIME-CONTROLLED DRAFT REGULATOR. MARK B. FERMANIAN, Troy, N. Y. Filed Apr. 10, 1922. Serial No. 551,112. 2 Claims. (Cl. 161—8.)



2. A device of the class described comprising a pivoted actuating arm, a spring for throwing said arm, flexible devices connected with opposite ends of the arms and adapted for connection with the draft elements of a heating apparatus, a trigger for retaining the arm in position with the spring under tension, the trigger being pivoted at the point intermediate of its ends, a spring for retaining the trigger in operative position, the upper end of the trigger including an offset portion, a clock including an alarm mechanism, one element of which is positioned for imparting a blow to the trigger on the offset end thereof upon the operation of the alarm, a stop for limiting the movement of the trigger, and a device operated by the release of the actuating arm for retaining the alarm mechanism inactive and acting to obstruct the path of movement of said element of the alarm mechanism, and prevent impact on the trigger.

1,453,930. BILLET HOLDER FOR SPOKE-MITERING MACHINES. HENRY FLICK, Jackson, Mich., assignor to Hayes Wheel Company, Jackson, Mich. Filed Oct. 4, 1921. Serial No. 505,246. 6 Claims. (Cl. 144—202.)

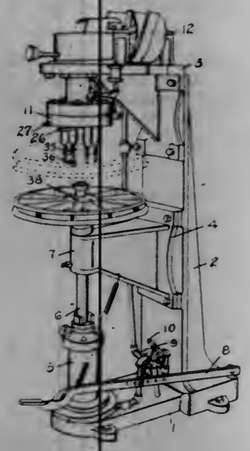


1. In a spoke mitering machine, the combination with a table and reciprocating mitering knives with driving disk, wrist pin and pitman therefor, of a spoke billet support with an upwardly projecting end stop at its inner end, a clamping finger to force the billet endwise against the end stop, a rock shaft carrying said finger with yielding connection means to actuate the same, a stationary jaw at one side of said support, a movable jaw to cooperate therewith, a bent lever with connections for operating said movable jaw timed to act after the operation of said clamping finger, an actuating rock shaft with connecting rods to the said parts, a cam on the driving disk of said knives, and a lever with a cam follower timed to be actuated by the said cam connected to operate to clamp the billet in place in advance of the cut of the knife, coacting as specified.

1,453,931. MULTIPLE DRILL FOR DRILLING WOOD WHEELS FOR HUB FLANGES. HENRY FLICK and CLARENCE M. BUCK, Jackson, Mich., assignors to Hayes Wheel Company, Jackson, Mich. Filed Oct. 4, 1921. Serial No. 505,283. 5 Claims. (Cl. 144—110.)

1. In a multiple drill, the combination of a suitable base with standard, a work support with an engine cylinder for actuating the same, a multiple spindle head with a central gear and bracket for supporting the same, means for driving the said central gear, multiple gears symmetrically disposed on suitable spindles around the said driving gear, drill spindles carried on suitable arms pivoted to the spindles of said multiple gears, intermeshing pinions on the said spindles to drive the drill spindles, a plate with slots embracing the said arms and disposed to actuate the same simultaneously out and in towards the center, means for adjusting the said

disk, a central plunger part for embracing the hub of a wheel, a plunger disposed symmetrically with the said drill spindles with a head containing a depression to



engage a single bolt inserted in the hub flange, all coacting substantially as described for the purpose specified.

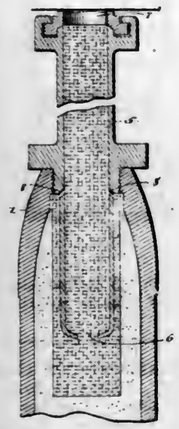
1,453,932. MUFFLER. THOMAS E. GENTHNER and ADELBERT L. STEVENS, Boston, Mass. Filed Sept. 15, 1920. Serial No. 410,466. 6 Claims. (Cl. 137—160.)



1. A muffler of the class described consisting of two members of substantially like structure adapted to be secured together to form a chamber therebetween; a gas inlet and a water inlet in one of said members; a gas outlet and a water outlet in the other of said members; a baffle plate attached to each of said members adapted to partially divide said chamber; and means to rotatably adjust said members whereby said inlets and outlets may be relatively angularly arranged to align with pipes previously installed and adapted to coact therewith.

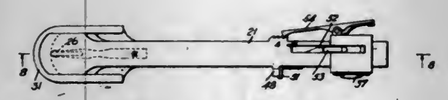
1,453,933. METHOD OF LOADING HIGH-EXPLOSIVE SHELLS. WILLIS A. GIBBONS, New York, N. Y., and ARTHUR GIVEN, Newark, N. J. Filed Nov. 8, 1919. Serial No. 336,611. 3 Claims. (Cl. 86—18.)

2. The method of loading high explosive shells, using an explosive mixture including a fusible substance, consisting in partly filling the shell with solid material leaving a cavity therein, introducing the fusible material



in a liquefied state to percolate through the solid material and partly fill the cavity and allowing the fusible material to solidify.

1,453,934. SURGICAL INSTRUMENT. DOMENICK LO GIUDICE, Brooklyn, N. Y., assignor to George Tiemann & Company, New York, N. Y., a Corporation of New York. Filed May 3, 1921. Serial No. 466,506. 6 Claims. (Cl. 128—309.)

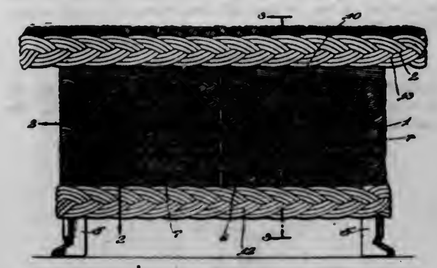


1. A surgical instrument including a base, a crushing blade, a severing blade and means for sliding the blades on the base, said means including a single lever to be manually actuated a plurality of times to operate the blades for a single crushing and severing operation, controlling means for automatically causing the first actuation of the lever to project the crushing blade a predetermined distance and thereupon to further project the crushing blade while projecting both blades, detent means for holding the blades projected as just described while permitting a retraction of said lever, and secondary controlling means formed in part by the first mentioned controlling means for automatically causing a second actuation of said lever to move the severing blade relative to the crushing blade to further project the severing blade.

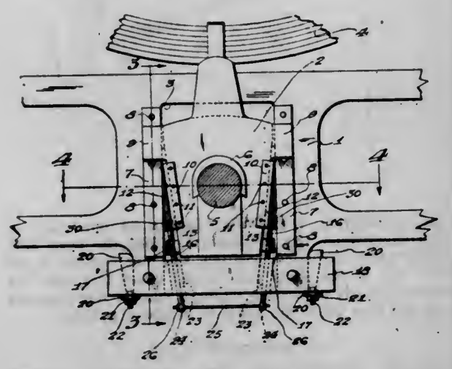
1,453,935. CHEST. DANIEL L. GOODRICH, Chicago, Ill. Filed June 19, 1922. Serial No. 569,282. 3 Claims. (Cl. 217—122.)

1. As a new article of manufacture, an article of furniture comprising a plurality of strips formed of braided

strands of fabric, said strips interlaced in alternate relation with transversely extending reeds, said reeds having certain of their ends bent transversely and into interlocking engagement to provide a spiral appearing edging.

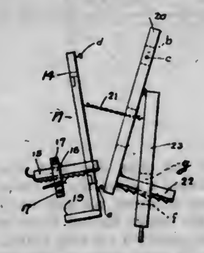


1,453,936. ADJUSTABLE BEARING BOX. JOHN J. GUNN, Chicago, Ill. Filed Oct. 7, 1922. Serial No. 593,076. 5 Claims. (Cl. 105—81.)



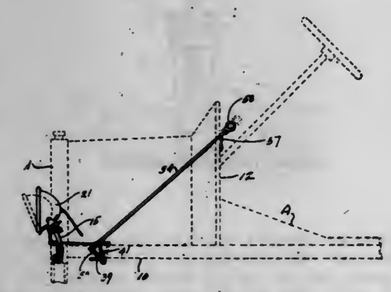
1. In a device as set forth, the combination with a frame, of a bearing box having its edges tapering inwardly as they extend downwardly, adjusting wedges, adjusting bolts carried by said bearing box and connected to said wedges, said wedges engaging the facing surfaces of the bearing box and frame.

1,453,937. MECHANICAL NURSE. REUBEN N. HARRISON, Plains District, Va. Filed Oct. 11, 1921. Serial No. 507,012. 5 Claims. (Cl. 45—82.)



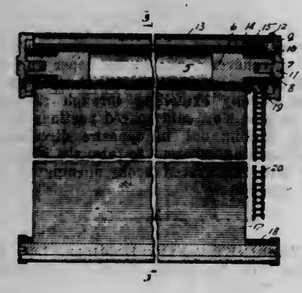
4. In a reading rack of the type described, the combination of a post, a member suspended from the upper end of said post and mounted to swing in vertical plane, means for adjusting said member vertically relative to the post, a book rest having its lower end pivotally mounted on the lower end of said member, and means for adjustably securing said book rack in adjusted positions relative to said member.

1,453,938. ADJUSTABLE HEADLIGHT ARRANGEMENT FOR MOTOR VEHICLES. CORDA A. HART and HENRY E. HART, Danville, Ill. Filed Apr. 27, 1922. Serial No. 556,902. 7 Claims. (Cl. 240—61.)



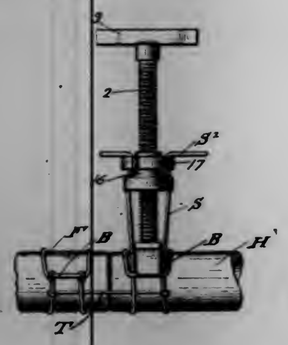
1. In a head light arrangement for vehicles, the combination of lamps having lugs projecting therefrom, a shaft oscillatively mounted upon said vehicle, members adjustably positioned upon said shaft for detachably receiving the lugs of said lamps, and means for oscillating said shaft to move said lamps in a vertical plane.

1,453,939. ROLLER SCREEN. FRANK R. KOENIG, Brooklyn, N. Y., assignor to W. H. Jackson Company, New York, N. Y., a Corporation of New York. Filed Feb. 2, 1922. Serial No. 533,697. 1 Claim. (Cl. 156—39.)



A roller screen for fireplaces comprising a hollow roller, cap members fitted on the respective ends of said roller, each cap member having an inwardly-projected lug, a plug mounted in each end of said roller and having a recess receiving the lug of its respective cap, each plug member having a reduced portion on the outer end thereof, and a coil spring carried by each reduced portion and engaging the shoulder at the base thereof at one end and its respective cap at the other end to produce friction sufficient to hold the roller normally against movement, and means for rotating said roller against said friction.

1,453,940. HOSE-CLAMPING TOOL. JOHN R. LOWREY, San Pedro, Calif., assignor of one-half to John A. S. Rogers, San Pedro, Calif. Filed May 16, 1922. Serial No. 561,294. 4 Claims. (Cl. 81—93.)



1. A tool for clinching wire hose binders in place on hose ends, said tool consisting of a threaded shank having a presser foot at one end adapted to pivot upon a cross-bar of a bight of the wire binder, and means mounted on the screw shank for holding shanks of the binder while the binder coils are tensioned about the hose, said means consisting of a nut having slots in its sides and a ring fitting over the nut and between which the binder shanks are adapted to be held.

1,453,941. THREAD GUIDE. JESSE F. MADDEN, Brooklyn, N. Y. Filed Nov. 29, 1922. Serial No. 604,038. 2 Claims. (Cl. 242—157.)



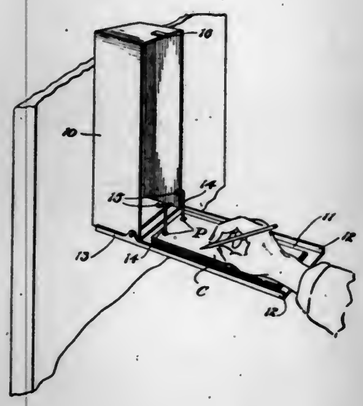
1. In a device of the character described, an elongated body having a transverse slot in its upper end to form said end into two spaced sections, the device also having an elongated opening extending through the same at right angles to said slot, said spaced portions having individual slots leading out in opposite directions from said elongated opening, whereby to form the upper part of said member into two spaced hooks opening at opposite sides of the member.

1,453,942. BASSINET. NEVA I. MILLS, Los Angeles, Calif. Filed Oct. 31, 1921. Serial No. 511,550. 1 Claim. (Cl. 224—6.)



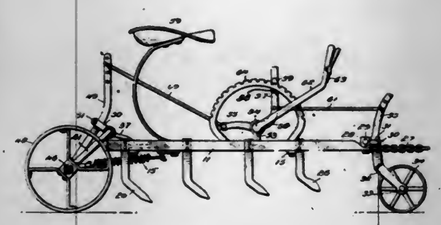
A bassinet comprising a skeleton body including a frame of elongated form having rounded ends, rods extending longitudinally at spaced intervals transversely with respect to the frame, said rods having their ends curved upwardly and connected at a common point to the frame, brace rods engaging the first rods and secured to said frame, and yokes swingingly supported on said frame between the brace rods.

1,453,943. RECORD-FILING DEVICE. CHARLES F. MITCHELL, Torrance, Calif. Filed Dec. 22, 1921. Serial No. 524,154. 1 Claim. (Cl. 45—2.)



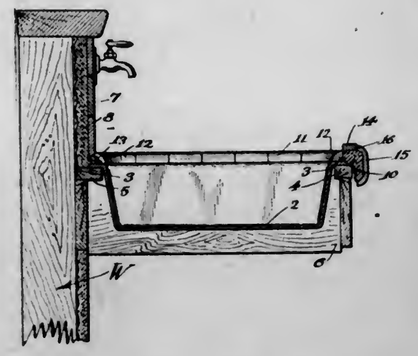
In combination, a container having an open side, a panel pivoted on the container to close the open side thereof when in vertical position, and pins secured to the inner side of the panel and having offset free ends for retaining sheets of writing material against displacement from the pins when the panel is in closed position.

1,453,944. CULTIVATOR AND HARROW. URBANO PEDROARENA, Gardnerville, Nev. Filed Apr. 6, 1922. Serial No. 550,089. 3 Claims. (Cl. 55—19.)



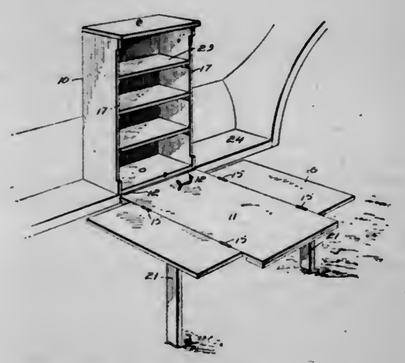
1. An implement of the class described comprising a supporting frame including a plurality of beam members carrying earth engaging elements, an axle carrying bearing wheels, a rock shaft device having downturned ends engaging said axle and mounted on said frame, an operating lever connected to said axle, a clip device connecting said lever to said rock shaft device, and means for actuating said rock shaft device to cause the vertical adjustment of said bearing wheels.

1,453,945. TILED SINK AND DRAIN BOARD. ALFRED G. S. PETERSON, Los Angeles, Calif. Filed Feb. 8, 1923. Serial No. 617,706. 6 Claims. (Cl. 4—36.)



1. In combination, a sink having a flange, a supporting frame for the flange, a plaster base laid on and along the flange and its frame, a tile framing laid on the flange corners and said base, and an apron tiling along the vertical portion of the said base.

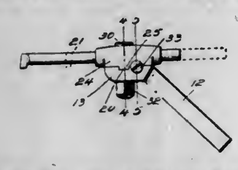
1,453,946. COMBINED CABINET AND TABLE. HARRY B. PIND and CLAUD W. CISNEY, Phoenix, Ariz. Filed Sept. 12, 1922. Serial No. 587,769. 2 Claims. (Cl. 190—12.)



2. In a device of the class described, a casing open at one side, a closure for said open side movably connected thereto, a leaf member hingedly connected to each side edge of said closure and foldable upon the inner face of the same, cleat elements pivoted at one end to the closure and adapted to be moved into position beneath the leaves when distended, and a leg member hinged to the free end of each of the cleat elements, and foldable upon the cleats when the latter are in withdrawn position.

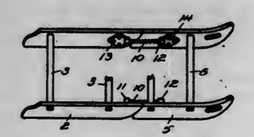
1,453,947. TOOL HOLDER. HENRY O. POHAT, Flint, Mich. Filed Dec. 19, 1922. Serial No. 607,785. 3 Claims. (Cl. 29—99.)

1. A tool holder comprising a head piece provided with a slot and further provided with a pair of alining grooves separated by a lug formed with threads, and a tool carrying element formed with a groove opposing said pair of grooves and having the wall thereof provided with a pocket, a shiftable means arranged in the grooves of said head piece and element and engaging said lug and



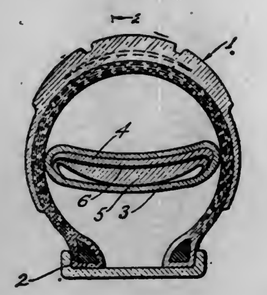
further extended into said pocket for adjusting said element, and means carried by said element and extended through said slot for clamping the element to said head piece.

1,453,948. SLED. JOHN POTTALA, Fitchburg, Mass. Filed Jan. 17, 1922. Serial No. 529,817. 2 Claims. (Cl. 280—16.)



1. A steerable sled composed of front and rear sections and connected only by coiled springs arranged adjacent and in close proximity to one face of the runners thereof, said springs being secured at one end to the rear section and at the other to the front section.

1,453,949. INNER TUBE. HENRY CLAUDE PRIVETT, Long Beach, Calif., assignor of one-half to Charles R. Privett, Burbank, Calif., three-sixteenths to Helen E. Privett, and one-sixteenth to Hollis F. Privett, both of Long Beach, Calif. Filed Apr. 11, 1921. Serial No. 460,369. 4 Claims. (Cl. 152—13.)



4. An inner tube for tires having inelastic members arranged transversely of and embedded within the tread portion of the tube, and inelastic material embedded in the tread portion and associated with the members to prevent the tearing away of the terminals of the members when the tube is inflated.

1,453,950. SHOE. EMIL PUHAKKA, Hancock, Mich. Filed June 16, 1920. Serial No. 389,375. 1 Claim. (Cl. 36—48.)

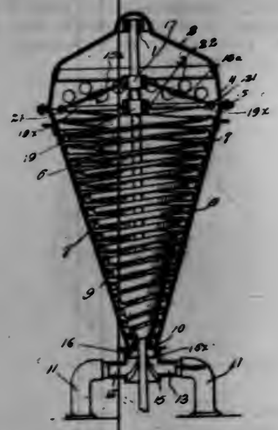
In a high-pac shoe, an upper of a height to extend over the calf of the leg of the wearer and formed of a pair of side portions of unequal length having projecting from the forward termini thereof a continuous seamless toe portion extending inwardly and rearwardly with respect

to the front of the shoe and of less width than the forward termini of said side portions, that side portion of shorter length of a length to extend a considerable distance above the ankle of the wearer, an extension secured to the upper edge of and projecting upwardly from that side portion of shorter length and of a length to provide the side portions of a shoe of equal length, a vamp having



its lower portion centrally split, said split lower portion of said vamp completely extended against and secured to the inner face of said toe portion and the remaining portion of said vamp extended rearwardly from the toe portion and between and secured to the inner face of the lower part of the side portions, and a tongue secured to the upper end of the vamp and of a length to extend to the top of the side portions.

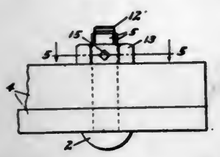
1,453,951. FLYING-MACHINE PROPELLER. JOHN MORTIMER RAYMOND, New Orleans, La. Filed Oct. 28, 1921. Serial No. 511,209. 1 Claim. (Cl. 244—18.)



In a propeller, the combination of a shaft, spiral blades associated with the shaft, rods connected with ends of said blades, a collar adjustable on the shaft and to which said rods are connected, a collar fixed on the shaft adjusting rods interposed between said collar and the outer ends of the first-named rods, and a casing enclosing said shaft, blades and connections.

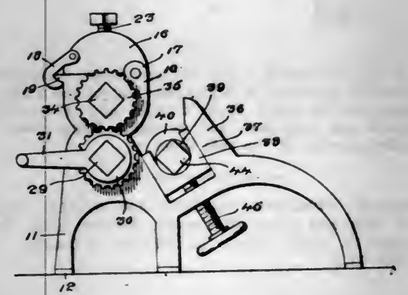
1,453,952. LOCK BOLT. ANDREW SAMANICH, Los Angeles, Calif. Filed Aug. 22, 1921. Serial No. 494,324. 2 Claims. (Cl. 85—5.)

1. A lock bolt comprising a shank split longitudinally to provide a plurality of locking members, transverse projections formed interiorly of the locking members, a locking stem insertable into the shank between the mem-



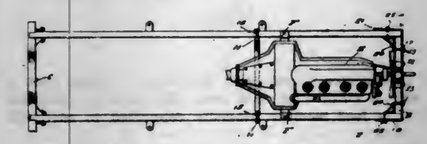
bers, and a nut embracing the members for the purpose described.

1,453,953. ANGLE-IRON MACHINE. WILLIAM NOALES SCHNEIDER, Cincinnati, Ohio. Filed May 28, 1921. Serial No. 473,464. 4 Claims. (Cl. 123—56.)



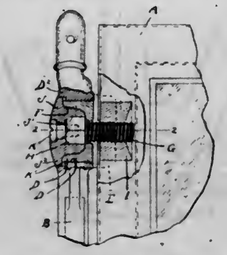
1. A device of the character described comprising end frames, bearings located at the intermediate portions of said frames, a lower roller having reduced ends journaled within said bearings, a bearing at the upper end of each of said end frames, a roller journaled within said second named bearings and designed for cooperating with said first named roller, means for adjusting the bearings of said second named roller, and a third roller detachably journaled within the end frames at the rear of said first named rollers and interchangeable with said second named roller.

1,453,954. CHASSIS BRACE. ALBERT J. SCHOLTES, Mobile, Ala. Filed Nov. 29, 1921. Serial No. 518,659. 4 Claims. (Cl. 280—106.)



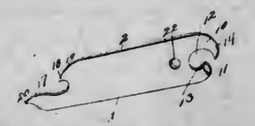
1. In combination with the frame of a motor vehicle, a transverse truss structure comprising a substantially V-shaped bar having its ends secured against the underside of the longitudinal frame bars, a second bar secured to the vertex of said first named bar at the underside thereof, blocks disposed between the ends of said first and second named bars, U-bolts embracing the side bars of the frame and passing through said first and second named bars, said U bolts carrying clamping nuts, and longitudinally extending adjustable truss rods connected with the front and rear cross members of the frame and engaged against said second named bars between said nuts.

1,453,955. WINDSHIELD-PIVOT CONSTRUCTION. HALSTEAD H. SEELEY, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed May 9, 1921. Serial No. 468,195. 10 Claims. (Cl. 296—92.)



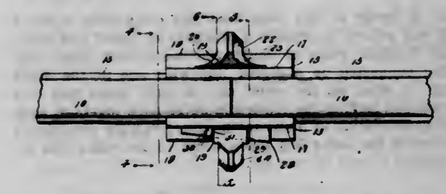
1. In a pivot construction, the combination with a pivotal member and a support therefor, of a pivot member carried by said pivotal member, a bolt securing the pivot member to the pivotal member, a finishing piece surrounding a portion of said bolt and concealing both said bolt and said pivot member, and a screw retaining said finishing piece engaging the head of said bolt.

1,453,956. RECEPTACLE OPENER. JAY HUNGERFORD SMITH, Rochester, N. Y. Filed July 21, 1921. Serial No. 486,469. 5 Claims. (Cl. 81—3.)



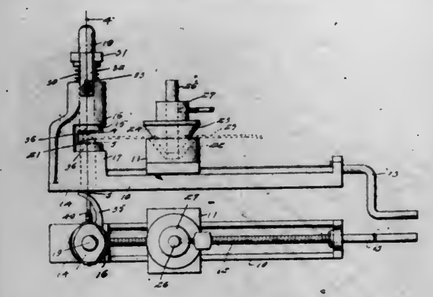
1. A receptacle opener for forcing the rubber from "anchor" tops, comprising a handle portion having curved pointed projections facing inwardly toward one another, one projection terminating within the curvature of the other and being offset to one side thereof, said inwardly terminating projection being used as a fulcrum against the edge of the flange of an "anchor" top, and the outer projection constituting a puncturing element for the transverse portion of said flange when the opener is swung on its fulcrum.

1,453,957. BOLTLESS RAIL JOINT. ANDY O. SPENCER, Sheffield, Ala. Filed Dec. 12, 1922. Serial No. 606,417. 2 Claims. (Cl. 238—203.)



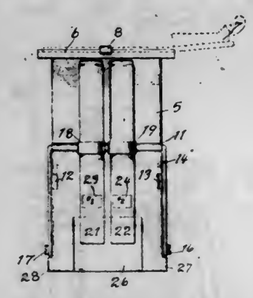
1. A joint for rails consisting of fish plates to embrace the adjacent ends of the rails, said fish plates having grooves and flanges, said flanges adapted to extend outwardly beyond the base flanges of the rails and having notches therein, a substantially U-shaped clamp having upstanding legs one longer than the other, said legs adapted to be disposed in said notches, a projection on one of the legs entering the groove of the adjacent fish plate, the other leg having a notch and a projection overlapping the same, and a fastening key insertable through the last mentioned notch, and the groove of the other fish plate.

1,453,958. SAW SET. HAYNES L. THOMAS, Brunswick, Ga. Filed Sept. 19, 1921. Serial No. 501,685. 6 Claims. (Cl. 76—70.)



1. A saw setting apparatus having, in connection with saw supporting means, a pedestal provided with spaced jaws, plunger and anvil elements rotatably mounted in seats in said jaws with their operative faces exposed in the interval therebetween, the plunger element being reciprocable to bring its operative face into operative relation with the anvil, and means for simultaneously and correspondingly turning said anvil and plunger element to vary the relation of the operative or die faces thereof with reference to the saw supporting medium.

1,453,959. BRUSH HOLDER. PAUL R. THOMAS, Berkeley, Calif. Filed Oct. 7, 1922. Serial No. 593,041. 1 Claim. (Cl. 248—63.)

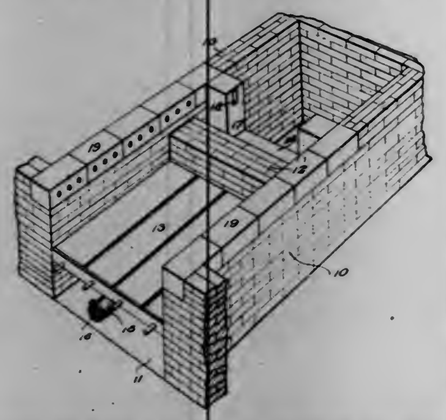


In a device of the character described, a support comprising a board-like portion, a bail pivoted to the sides of said support at a point near its lower extremity, a shelf mounted on the upper extremity of said support, receptacles pivoted to said bail in such a manner as to normally lie parallel to said support and being further adapted to have their upper extremities in close proximity to the under surface of said shelf, a groove formed in said shelf, and a spring secured to said shelf and adapted to overlie a portion of said groove, substantially as and for the purpose specified.

1,453,960. FURNACE CONSTRUCTION. ALFONS H. VAN DE POL, Philadelphia, Pa., assignor of one-half to John J. Bridgeford, Philadelphia, Pa. Filed Feb. 12, 1921. Serial No. 444,425. 1 Claim. (Cl. 110—75.)

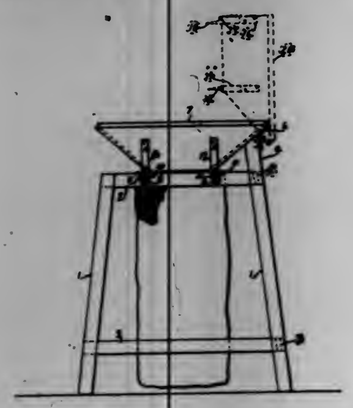
The combination of a furnace including a grate and a baffle wall extending transversely across the furnace at the rear end of the grate; a conduit arranged horizontally across the bottom of the furnace in the rear of the baffle wall, an air supply pipe arranged below the grate thence disposed through the baffle wall and communicating with the conduit intermediate its ends, a vertically

disposed conduit communicating and rising from each end of the horizontal conduit and being provided with air escape openings designed to face each other and to direct the air across the furnace to form a wall so as to



retard the escape of products of combustion, perforated conduits arranged horizontally within each side wall of the furnace and being designed to communicate with the vertically arranged conduits and extending forwardly therefrom to the front of the furnace.

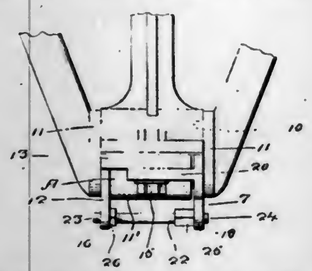
1,453,961. SACK HOLDER. CARL WALLDOW, San Jose, Calif. Filed Sept. 19, 1922. Serial No. 589,122. 3 Claims. (Cl. 83—26.)



1. A sacker comprising a frame, a hopper having downwardly and inwardly inclined sides pivotally mounted thereon, spaced pins arranged on each of two opposite sides of said hopper to assume a vertical position when the hopper is in an operative position, and means carried by a portion of said pins for engaging said frame to support said hopper thereon.

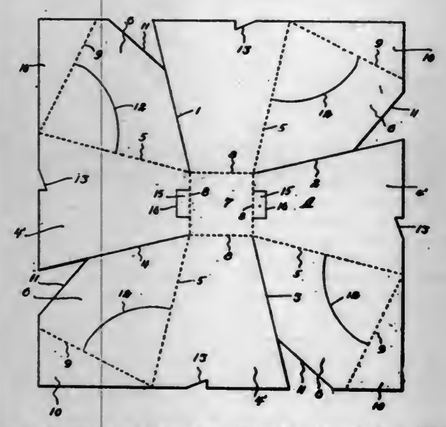
1,453,962. ADJUSTABLE BEARING CAP. HERBERT R. WESTWELL, Methuen, Mass. Filed Nov. 28, 1921. Serial No. 518,268. 1 Claim. (Cl. 64—25.)

An extension cap for bearings of the character described comprising two parts, apertured attaching flanges formed on one of said parts, a wall rising from said part at one end thereof, and having a threaded opening, the other of said parts having a threaded opening arranged in a line with the first mentioned opening, slotted extensions projecting from the second part and arranged beneath said flanges, fastening elements adapted to be passed through



said openings and slots of the respective parts, an attaching bar having oppositely threaded extremities received by the threaded openings of said respective parts, and a lock nut associated with one of said extremities as and for the purpose specified.

1,453,963. PLANT PROTECTOR. ALFRED WILBERDING, Jacksonville, Fla. Filed July 30, 1921. Serial No. 488,670. 3 Claims. (Cl. 229—35.)

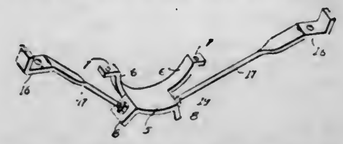


1. A device of the class described comprising a blank cut and scored to provide a plurality of inner and outer flaps forming walls of double thickness, each inner flap being connected by a scored line with one of the outer flaps, a wing on the outer end of each inner flap and means for locking the inner and outer flaps together, such means consisting of a slit in the inner flap for receiving a corner of the outer flap and a notch in the outer flap for engaging a part of the slit.

1,453,964. CRANK-CASE SUPPORT. EVERETT D. WOLBERT, San Francisco, Calif., assignor of one-half to Everett J. Perigo, San Francisco, Calif. Filed Jan. 10, 1921, Serial No. 436,303. Renewed Sept. 30, 1922. Serial No. 591,668. 1 Claim. (Cl. 180—64.)

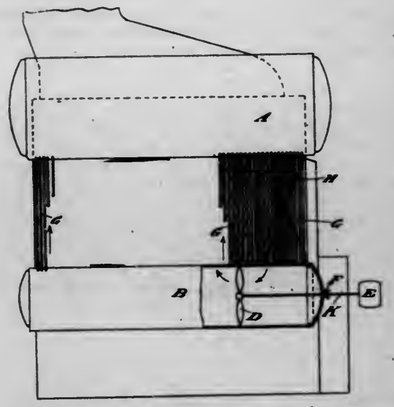
In a device of the character described, the combination with the sectional flanged crank case and frame of an automobile, of a support connected to said frame and positioned beneath said crank case whereby vertical displacement of the same is prevented, said support consisting of a main body portion conforming to the contour of the lower part of said crank case and having integrally

formed thereon lateral extensions and curved arms terminating in apertured flanges, brace rods disposed between and connecting said support and frame whereby horizontal displacement of said crank case and said frame



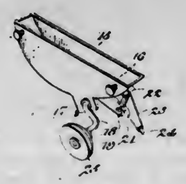
is prevented, friction means interposed between said crank case and said support, and L shaped bolts connecting the flanges of the sectional crank case and the apertured flanges of the curved arms of said support for the purpose of assisting in preventing the vertical displacement of said crank case.

1,453,965. CIRCULATION OF WATER IN WATER-TUBE BOILERS. HAROLD E. YARROW, Scotstoun, Scotland. Filed Dec. 15, 1919. Serial No. 344,804. 3 Claims. (Cl. 122—411.)



1. In a water tube boiler, a water drum and a steam and water drum placed at a higher level than said water drum, nests of tubes connecting said water drum with said steam and water drum, said nests of tubes being arranged along the longitudinal axis of said water drum, some of said tubes being nearer the source of heat than the others, a propeller placed in said water drum, a circulation produced by said propeller flowing up the more highly heated tubes and down the less highly heated tubes.

1,453,966. REPEATING MECHANISM FOR PHONOGRAPHS. KNUT EMIL YUNGSTROM, White Plains, N. Y. Filed Apr. 15, 1922. Serial No. 553,172. 5 Claims. (Cl. 214—15.)



1. A device of the class described comprising attaching means for securing the device to a sound box, a rocker shaft supported thereby, means on one end of said shaft for tilting the same, and means on the other end of said shaft adapted to co-act with the grooves of a record disk as and for the purpose specified.

1,453,967. STEAMING CABINET. LOUIS ANGELUS, New York, N. Y. Filed Nov. 25, 1921. Serial No. 517,822. 5 Claims. (Cl. 26—7.)



1. A steaming cabinet which comprises a casing having a steaming chamber in the bottom thereof, said casing adapted to receive rolls of material to be steamed, and a spacing frame mounted on and extending around the inner walls of the casing near the upper end thereof to maintain the rolls out of contact with the walls.

1,453,968. MUSICAL TOY. WILLIAM BARTHOLOMAE, New York, N. Y., assignor to Bar Zim Toy Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed May 4, 1922. Serial No. 558,459. 15 Claims. (Cl. 46—46.)



14. In a sounding device of the character described, a sounding member flexible for the purpose of varying its tone formed substantially wedge-shaped with a finger or thumb engaging end, and with an offset portion at the opposite end for receiving a support.

1,453,969. ACOUSTIC DEVICE. HAROLD DAVID BROWN, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,244. 2 Claims. (Cl. 181—23.)

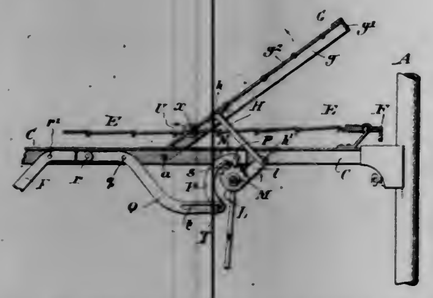
1. A device of the character described comprising means adapted to enclose the ear, and having an opening

therein for the admission of sound, said means having the characteristics of a diaphragm and having contact



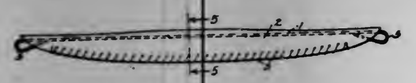
with the head of the wearer at a point behind the ear, whereby vibrations are transmitted to the petromastoid portion of the temporal bone.

1,453,970. INVALID BED. FRANK B. BUMGARDNER, Fort Smith, Ark. Filed Apr. 19, 1922. Serial No. 552,829. 3 Claims. (Cl. 5—77.)



1. The combination with the side rails of a bed, of a head rest frame pivotally connected therewith, hangers attached to the side rails, a rock shaft supported by the hangers, ratchets carried by the rock shaft and having forwardly projecting arms, links connecting these arms with the head rest, pawls pivotally connected with the hangers and engaging the ratchets, a rod connecting the powls on opposite sides of the bed, slotted levers through which the rod extends, and a handle for operating said levers.

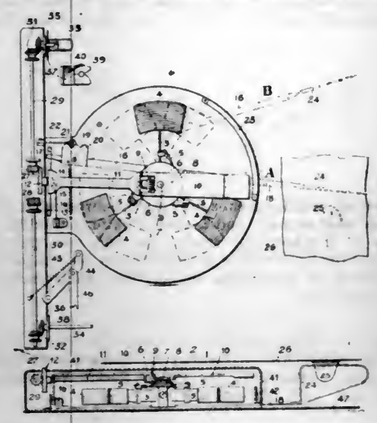
1,453,971. HAIR CURLER. ELIZABETH CALKINS, St. Joseph, Mo. Filed July 25, 1922. Serial No. 577,395. 3 Claims. (Cl. 132—43.



1. A hair curler, comprising a single bendable wire, a cover on the main portion of the wire and having tapering ends, and the ends of the wire bent into looped form and having the looped ends projecting beyond the ends of the cover.

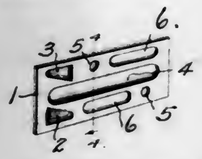
1,453,972. DEVICE UTILIZING THE TREPIDATIONS OF VEHICLES. MARIO AUGUSTO CANALE and RICARDO FRIAS, Buenos Aires, Argentina. Filed Apr. 23, 1921. Serial No. 463,925. 6 Claims. (Cl. 40—94.)

1. In an apparatus for operating advertising tapes, weights mounted on springs and adapted to vibrate therewith, pawls carried by the springs and engaging a ratchet wheel having a bevel gear which engages a pinion, an arm, an axle therewithin extended from said pinion to an attached toothed wheel, an arm fulcrumed above said first arm adapted to move said first arm to engage said toothed wheel with a gear wheel when moved in one direction and with another gear wheel when moved in an opposite direction, arms and gear means extended from said gear wheels meshing with gears attached to rollers



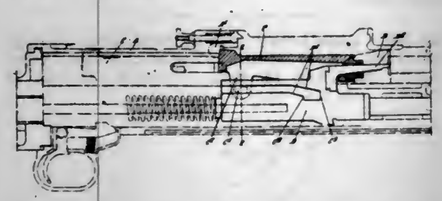
positioned at right angles to said arms, a curtain attached to said rollers having a flap at each end adapted to engage an extension of the fulcrumed arm.

1,453,973. CLIP FOR CORNER BEADS. WILLIAM CLAYTON CORYELL, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed May 10, 1922. Serial No. 559,887. 3 Claims. (Cl. 72—121.)



1. A clip for corner beads consisting of a body having bead engaging lugs, a reinforcing rib formed at the central portion of the clip, and key openings at opposite sides of the rib.

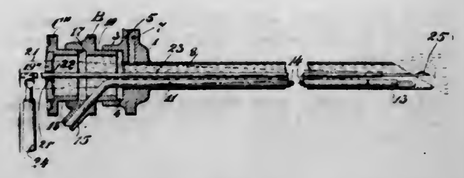
1,453,974. MACHINE GUN. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, England, and GEORGE DOTSON HASKELL, Boston, Mass., assignors to Vickers Limited, Westminster, London, England, a British Company. Filed Sept. 21, 1922. Serial No. 589,657. 2 Claims. (Cl. 89—2.)



1. In a machine gun of the kind referred to, the combination with the bolt, the striker-post, and a movable locking block adapted to co-operate with a fixed part of the gun to hold the bolt in the forward position, said locking block having a longitudinal recess between the side walls of which part of said striker-post is disposed, of a rearward extension of said striker-post, said extension being formed with a slot which passes through it from

side to side and which has cam or inclined surfaces on its upper and lower walls, and a pin carried by the side walls of said locking block, this pin passing through said slot and engaging with the cam or inclined surfaces thereof.

1,453,975. URETHROSCOPE. GEZA GREENBERG, New York, N. Y., and WILLIAM A. WINTER, East Orange, N. J. Filed Oct. 18, 1919. Serial No. 331,550. 7 Claims. (Cl. 125—7.)

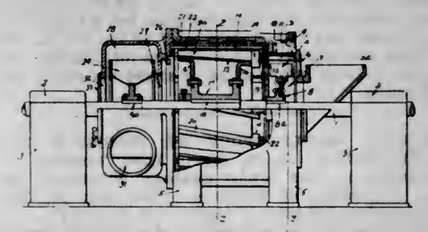


6. A urethroscope comprising an open ended tube; a lens closure for the proximal end of said tube having an optical curvature such that when said tube is filled with a suitable liquid in inner contact with said lens, the focus of said lens will approximate the distal end of said tube.

1,453,976. COMPOSITION FOR DETONATORS. BENNETT GROTTA, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 16, 1922. Serial No. 594,979. 5 Claims. (Cl. 52—3.)

1. The brisance or detonating value is greatly increased. The inner capsule, which is essential in a mercury fulminate-tetryl detonator, may be dispensed with, and a smaller priming charge used effectively.

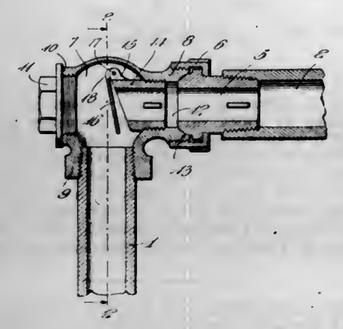
1,453,977. METHOD OF TREATING AND FEEDING FUEL AND APPARATUS THEREFOR. PAUL A. HIRSCH, Erie, Pa., assignor to Aero Pulverizer Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1921. Serial No. 463,625. 43 Claims. (Cl. 83—11.)



1. In an apparatus for trenting and feeding fuel, the combination of a crushing chamber; a pulverizing chamber leading from the crushing chamber; a rotary beater in the crushing chamber; a rotary pulverizer in the pulverizing chamber the clearance between the walls of the crusher chamber and the beater being greater than the clearance between the walls of the pulverizer chamber and the rotary pulverizer; and an obstruction between the chambers preventing the passage of larger particles from the crushing chamber to the pulverizing chamber.

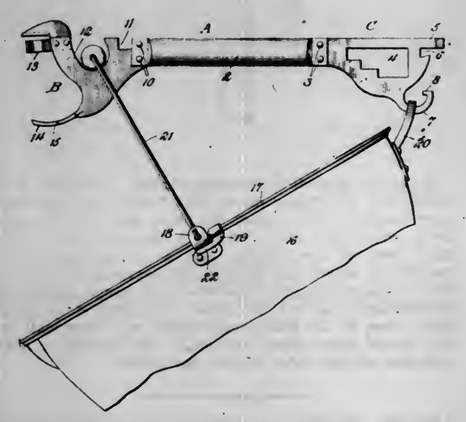
1,453,978. CHECK VALVE. JOHN AUGUST HOLMBERG, Lindsborg, Kans. Filed May 23, 1921. Serial No. 471,753. 1 Claim. (Cl. 251—123.)

A coupling comprising a body having an inlet passage and an opening opposite thereto, and intermediate its length provided with a side opening, a removable closure for the opening opposite the inlet, the inlet passage being internally threaded from its inner end to a point intermediate its length, a tubular valve seat inserted into the body through the opening opposite the inlet, and a check valve pivotally connected with the inner end of said seat, the valve seat having its other end



portion threaded and screwed into the inner end portion of the inlet passage and mounting the valve seat for axial adjustment whereby when the coupling is in use, the valve seat may be adjusted to position the pivot of the valve uppermost with the valve hanging in a substantially vertical position and by gravity normally held out of closing engagement with the valve seat.

1,453,979. COMBINATION TOOL. JOSEPH J. HOLSEN, Manitowoc, Wis. Filed Mar. 20, 1919. Serial No. 283,901. 3 Claims. (Cl. 294—2.)



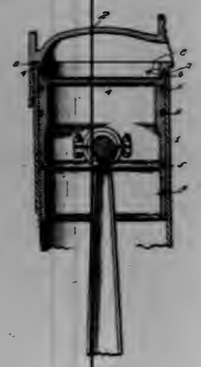
1. A combination kitchen tool, for use in connection with a vessel having a pair of ears, a hinged bail and a looped handle, and wherein the vessel is provided with a cover having hooks adapted to be slid into engagement with the ears to retain it in place, said tool comprising a hook at one end to be engaged with the looped handle, and a seat at the other end to receive said bail, whereby the vessel may be tilted with the cover in place so as to protect the hand of the operator.

1,453,980. ATTENUATION EQUALIZER. RAY S. HOYT, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 29, 1918. Serial No. 242,567. 15 Claims. (Cl. 178—44.)



15. In a transmission system, a transmission line the attenuation of which varies with frequency in accordance with a known law, and an auxiliary network the attenuation of which is predeterminable at different frequencies, said auxiliary network being localized with respect to the line and so designed and so associated with the transmission line at a point along the length thereof that the resultant attenuation varies with the frequency in accordance with a predetermined law.

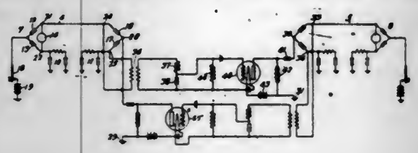
1,453,981. CYLINDER AND PISTON CONSTRUCTION. ELIAS JOHNSON and SIMON PETERSON, Newhall, Iowa, Filed Apr. 13, 1922. Serial No. 552,094. 3 Claims. (Cl. 74—108.)



1. In an internal combustion engine, a cylinder provided with an interior flange, said flange being provided upon one side with a recess, the outer wall of said recess being cylindrical and forming a continuation of the inner wall of the cylinder, and a piston mounted to reciprocate within the cylinder and provided at one end with a flange integral therewith, said flange projecting longitudinally beyond the piston and adapted to enter said recess in the first named flange, the outer wall of the piston flange being cylindrical and forming a continuation of the outer wall of the piston.

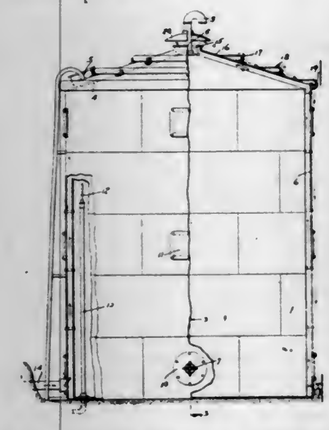
1,453,982. ELECTRICAL RECEIVING OR REPEATING APPARATUS AND METHOD OF OPERATING THE SAME. BURTON W. KENDALL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 50,396, filed Sept. 13, 1915. This application filed Feb. 20, 1917. Serial No. 149,782. 77 Claims. (Cl. 178—71.)

1. The combination of a circuit, a transformer having its primary included therein, an aperiodic circuit associated with the secondary of said transformer, said aperiodic circuit being symmetrically conducting in both directions, a thermionic amplifier and means for asso-



ciating said amplifier with said aperiodic circuit, whereby power in said aperiodic circuit is reproduced in augmented form.

1,453,983. TANK. JOHN WESLEY KERLIN, New Brunswick, N. J. Filed Sept. 28, 1921. Serial No. 503,885. 4 Claims. (Cl. 220—88.)



1. A tank of the character described comprising an inner container, an outer casing spaced from the container, means for directing a cooling and fire extinguishing medium into the space between the container and the casing, said casing being open at the top for permitting said medium to flow out the top, together with means to cause said medium to spread out evenly over the casing.

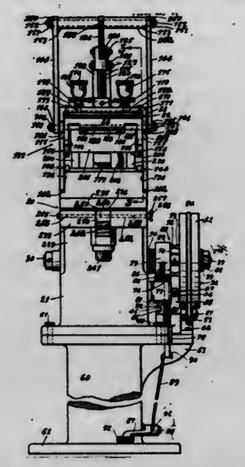
1,453,984. MANUFACTURE OF AMMONIUM PERCHLORATES. RALPH AUSTIN LONG, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 26, 1921. Serial No. 517,889. 1 Claim. (Cl. 23—13.)

A process for the manufacture of ammonium perchlorate which consists of employing a nucleus solution containing approximately 9% to 12% ammonium perchlorate, 1% to 7% sodium perchlorate, and 17% to 22% sodium chloride, adding to this the proper amount of sodium perchlorate and ammonium chloride to produce a solution containing 18% to 30% ammonium perchlorate, 1% to 7% sodium perchlorate, and 17% to 22% sodium chloride, removing the sodium chloride that separates out, diluting the remaining liquid and then removing the ammonium perchlorate at a temperature below 30° C.

1,453,985. AUTOMATIC MARKING MACHINE. EDWARD G. MEYERS, Cincinnati, Ohio. Filed May 31, 1921. Serial No. 473,689. 10 Claims. (Cl. 101—9.)

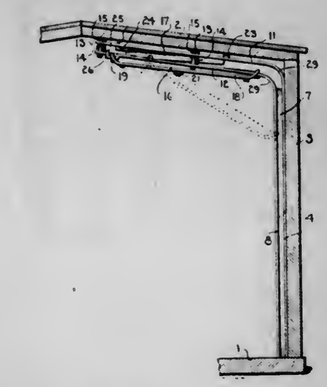
1. In a marking machine, a yieldable support adapted to hold material to be marked, a reciprocating marking

means whereby markings are made on the material by a single operation, an inking means for said marking



means and fixing means for instantly indelibly fixing the markings made by said marking means, substantially as set forth and for the purposes specified.

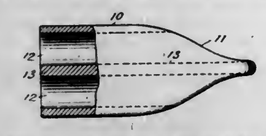
1,453,986. SLIDING DOOR. ORIN J. MILLER, Hurdsfield, N. Dak. Filed July 10, 1922. Serial No. 573,972. 4 Claims. (Cl. 20—32.)



1. A sliding door comprising a plurality of sections, pairs of spaced track bars secured to fixed supports upon opposite sides of the door, the track bars of each pair being located in spaced and offset relation throughout their lengths, track-engaging members on one door section engaging on the inner sides of one set of track bars, and track engaging members on the other door section engaging on the outer sides of the other set of track bars, said sections being movable into vertical alinement to close the doorway and relatively slidable into opposed parallel relation when opening the same.

1,453,987. SINKER. SAMUEL MILLS, New York, N. Y. Filed Sept. 19, 1922. Serial No. 589,165. 7 Claims. (Cl. 43—52.)

4. As a new article of manufacture, a sinker for fish lines having holes extending longitudinally therethrough at opposite sides of the medial line and presenting a



longitudinal web at the medial line between said holes, said web having means affording connection for a fish line.

1,453,988. METHOD OF BRIQUETTING SAWDUST, PEAT, COAL DUST, AND SIMILAR PULVEROUS SUBSTANCES. Filed June 25, 1920. Serial No. 391,786. 1 Claim. (Cl. 44—33.)

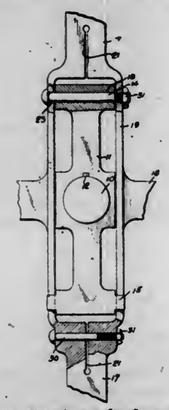
The method of briquetting saw-dust, coal-dust, air-dried peat and similar pulverous substances, which comprises supplying superheated steam to the pulverous mass until the air contained therein is essentially expelled, and then while the mass still contains condensable vapors only applying pressure until the steam is condensed and the particles of the mass are brought into intimate contact with each other.

1,453,989. FOLDING BRACE. OLOF A. NORLUND, Williamsport, Pa. Filed July 12, 1921. Serial No. 484,096. 5 Claims. (Cl. 74—33.)



1. A folding brace comprising a crank, and a shank formed of a plurality of alined sections pivotally connected together, means to removably hold said sections in alinement, and an angular clip each end of which is provided with a pair of spaced jaws located at an angle to each other, the adjacent end of the crank and a section of the shank being pivoted in one part of the clip, the two jaws of said clip being adapted to firmly grip adjacent end portions of the section and crank respectively at one side of the pivots.

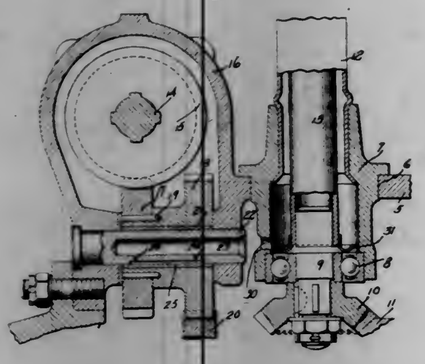
1,453,990. TILTING STEERING WHEEL. VICTOR W. PAGE, Kew Gardens, N. Y. Filed May 19, 1921. Serial No. 470,986. 1 Claim. (Cl. 74—33.)



In a collapsible steering wheel, a head adapted to be carried by the steering post, a wheel, a yoke formed in

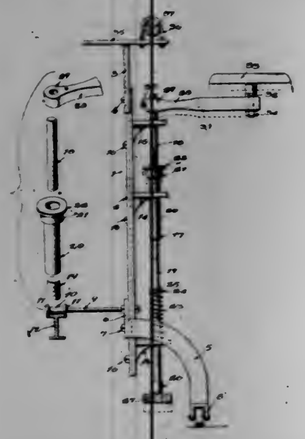
the spokes of said wheel and adapted to embrace the head, said yoke having keys extending into the spokes of the wheel at the ends of the yoke, means for pivotally mounting the wheel on said head, said means also serving to contract that end of the yoke which is pivotally secured to the head to take up wear, and separate means passing through the yoke at its free end for contracting said free end to take up wear therein.

1,453,991. LUBRICATOR FOR INTERMEDIATE GEARING. VICTOR W. PAGÉ, Kew Gardens, N. Y. Filed Nov. 22, 1921. Serial No. 517,036. 7 Claims. (Cl. 64—32.)



7. A lubricating means for gearing comprising a hollow bolt having an exposed open end and forming a support for said gearing, and centrifugal means in alinement with the exposed open end of said bolt for supplying lubricant to said hollow bolt.

1,453,992. WARPER SEAT. ARTHUR J. PALIN, Pawtucket, R. I. Filed Apr. 17, 1922. Serial No. 553,339. 2 Claims. (Cl. 155—81.)

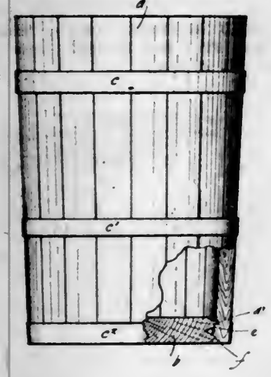


1. In combination, a fixed support including a horizontal track member, a movable upright supporting structure having a sliding connection at its upper end with the fixed support and having a rolling contact with the said horizontal track, a vertical standard supported upon the movable supporting structure and being movable in the direction of its length, spring means urging said standard upward, a stop carried by the standard and adapted to engage the movable supporting structure to limit the downward movement of the standard, an arm swingingly supported upon the standard adjacent to its upper end and having a longitudinal slot therein, a saddle having a shank arranged with the lower portion thereof depending through said slot and having the upper portion thereof enlarged to rest upon the upper side of the arm, whereby said saddle is adapted for adjustment longitudinally of the slot, and means carried by the shank at its lower end for engaging the arm to lock the saddle in adjusted position along the slot.

1,453,993. METALLURGICAL REFRACTORY MATERIAL AND PROCESS OF PRODUCING THE SAME. CALVIN PAYTON, Douglas, Ariz., assignor of fifty-five one hundredths to Phelps Dodge Corporation, a Corporation of New York. Filed Jan. 17, 1919. Serial No. 271,738. 3 Claims. (Cl. 75—62.)

1. The process of producing metallurgical refractory material which comprises blowing copper matte without the addition of silica and separating the resulting slag.

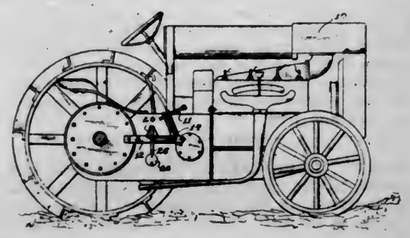
1,453,994. WOODEN TUB. FRANK X. PFLUGER, Portland, Oreg. Filed Nov. 3, 1921. Serial No. 512,501. 2 Claims. (Cl. 217—80.)



1. A wooden tub comprising staves and a one-piece bottom, the latter being provided with a peripherally projecting flange of wedge form in cross section, and being provided further with a second flange located below said first mentioned flange, and with a third flange located adjacent the under side of the bottom piece, said second flange being of triangular cross-section, the staves being provided on their interior faces with a groove to receive said wedge like top flange of the bottom piece, whereby, on the assembly and pressing of the staves about its bottom piece said flange of triangular cross-section will be pressed into the opposed faces of the staves and form therewith a liquid tight joint, such joint also contributing to the rigidity of the bottom of the tub as a whole.

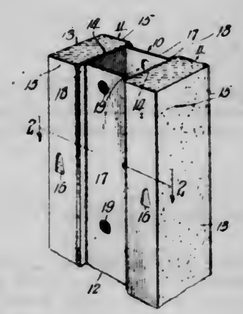
1,453,995. SAFETY DEVICE FOR TRACTORS. JAMES S. RAIRDEN, Waterford, Calif. Filed Aug. 10, 1921. Serial No. 491,230. 6 Claims. (Cl. 180—82.)

1. A safety device for tractors comprising a bracket to be arranged adjacent the clutch pedal of the tractor, a hook slidably mounted on the bracket and adapted to engage freely over the clutch pedal, a latch mounted for rocking movement and pivoted at its front end to the lower end of the hook, a pendulum-controlled member pro-



jecting over the rear end of the latch and restraining the same, and means associated with the hook to actuate the same and the clutch pedal and exerting force constantly on the latch in opposition to the latch-restraining means.

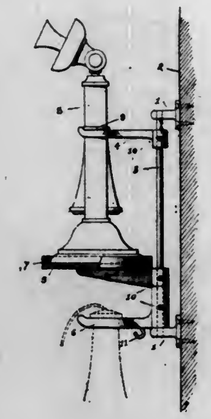
1,453,996. COMPOSITE STRUCTURE. GEORGE W. RIDDLE, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,491. 2 Claims. (Cl. 72—115.)



1. A composite structure of the kind described comprising, oppositely facing, spaced thin sheet metal channels having side members, strips secured to said channels at their sides and adapted to hold said channels in their paced relation, a nailing mixture in said channels, and means connected with said side members to hold the nailing mixture in place therein.

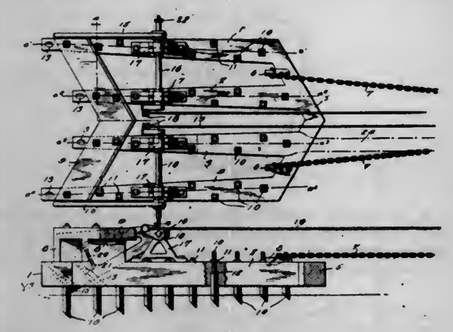
1,453,997. TELEPHONE BRACKET OR SUPPORT. JOSEPH HENRI RIVET, Woonsocket, R. I. Filed Apr. 20, 1920. Serial No. 375,328. 1 Claim. (Cl. 248—20.)

In a telephone support the combination of wall brackets adapted to be secured to a wall in a removable manner and having apertures in their free ends, a rod adapted to seat in the apertures and to be turned with respect to the brackets, an arm adjustably secured to the rod near the upper end thereof and to turn therewith and having an outer forked portion adapted to receive and grip the staff of a telephone, an arm arranged at a point on the rod slightly below the transverse center thereof and adjustably secured thereto and adapted to turn with the rod, a tray mounted on the last named arm, an arm mounted beneath the second arm on the rod and adjustably secured thereto and movable therewith and having



a forked free end adapted at times to receive a telephone receiver, and a hook formed integral on the last named arm to receive a telephone directory.

1,453,998. HARROW AND SCARIFIER. DANIEL M. ROBERTS, Homestead, Fla. Filed Oct. 24, 1921. Serial No. 509,934. 13 Claims. (Cl. 55—3.)



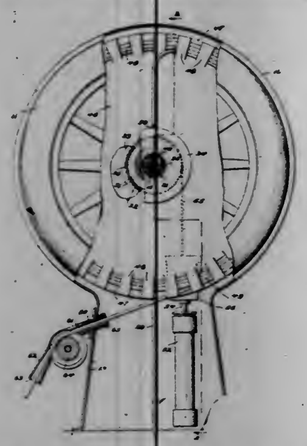
1. A harrow comprising a plurality of bars which are narrower at the rear than at the front of the harrow, and a plurality of sets of harrow teeth, said bars and sets of harrow teeth being arranged substantially parallel to the center line of the harrow.

13. In a harrow, a plurality of substantially parallel bars, a set of teeth for each of said bars, a tooth receiving socket at the rear of each bar and teeth of substantially larger size than the teeth of said sets adapted to be removably mounted in said sockets.

1,453,999. AIR-HOSE STAND. GEORGE F. ROYER, Wilkes-Barre, Pa. Filed June 14, 1920. Serial No. 388,928. 18 Claims. (Cl. 299—78.)

1. In a construction of the kind described, a reel adapted to support an air conveying hose wound thereon, a bearing to which said reel is secured, a fixed shaft on which said bearing is rotatably mounted, said bearing including a drum portion spaced from said shaft to form a spring receiving recess, a coiled spring arranged in said

recess around said shaft, and having one end secured to said bearing and the other to said shaft, and means for



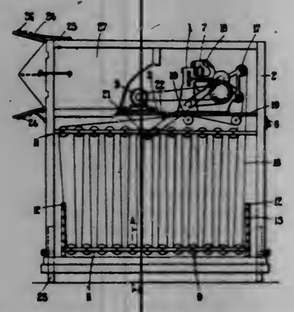
conducting compressed air through said shaft and bearing to said hose.

1,454,000. CERAMIC WARE AND METHOD OF MAKING THE SAME. CHARLES W. SAXE, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1920. Serial No. 427,684. 5 Claims. (Cl. 25—129.)



1. A ceramic article consisting of an impervious portion of porcelain integrally united by vitrification with a porous portion of crystalline alumina granules bonded by vitreous clay material.

1,454,001. CINEMATOGRAPH MACHINE ADAPTED FOR ADVERTISING PURPOSES. WILLIAM EWART GEORGE SMITHERS, Kingston-on-Thames, England. Filed July 19, 1922. Serial No. 576,072. 3 Claims. (Cl. 88—24.)

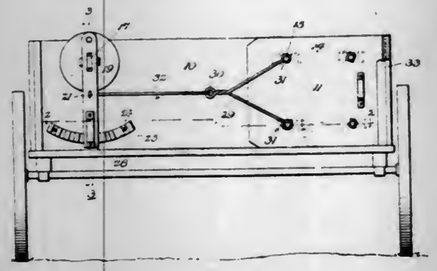


1. Means for providing continuous cinematograph displays in shop windows and the like, adapted for use either in daylight or darkness, having in combination a casing, a screen at one end of said casing, adapted to show on its outer surface pictures projected onto its rear surface, a projector having film feeding means mounted within said casing and behind said screen, means within the casing for driving said projector, an endless film passing over a plurality of sets of rollers arranged in the lower portion of said casing, means for varying the distance between the sets of rollers so as to accommodate for varying lengths of film, and auxiliary film feeding means disposed at a convenient point in the travel of said film over said rollers and driven by and synchronously with the main film feed.

1,454,002. LUBRICATOR. CLAUDIUS VERNIAUD, deceased, late of Quincy, Ill., by Clotilde J. Verniaud, administratrix, Quincy, Ill.; assignor, by mesne assignments, to G. M. C. Metallic Grease Co., Quincy, Ill., a Corporation of Delaware. Filed June 29, 1922. Serial No. 571,797. 3 Claims. (Cl. 87—9.)

3. A lubricant composed of cup grease, lead dust, babbitt dust, and powdered white lead, combined in substantially the proportions of 50 pounds of cup grease, to 1 pound of lead dust, to one-fourth pound of babbitt dust, to one ounce of powdered white lead.

1,454,003. END GATE. FRANK J. VONDERHARR, Granville, Iowa. Filed Feb. 15, 1922. Serial No. 536,727. 5 Claims. (Cl. 296—54.)



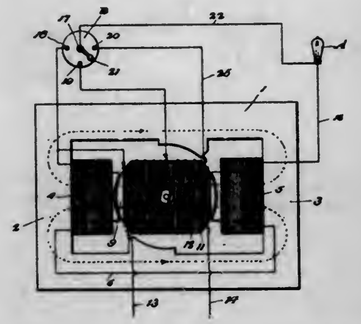
1. An end gate including slidably connected sections, a pivoted swinging lever upon one of the sections operatively connected to another of said sections and swingingly movable in one plane for sliding the latter section, and locking means upon the lever, the lever being pivotally movable in another plane to operatively engage said means with the first section for holding the lever against swinging movement.

1,454,004. PIVOT BUTTON. MORRIS WEISS, New York, N. Y., assignor of one-half to Isidore A. Weidhorn, Lynbrook, N. Y. Filed Aug. 3, 1921. Serial No. 489,483. 2 Claims. (Cl. 24—104.)



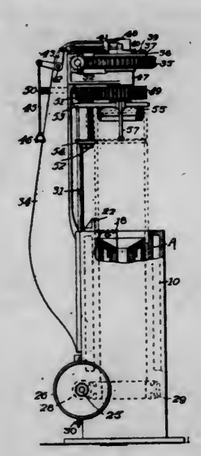
1. As a new article of manufacture, a pivot button of the class described, comprising a hollow body portion, a flanged base portion, a plate having a triangular projection with an opening at the apex carried by the base portion, said triangular portion having its walls integral, means for retaining said plate in position and a smooth stud for engaging in said opening in the projection to attach the button to a fabric.

1,454,005. REGULATING TRANSFORMER. NICOLAS WENZEL, Twin Falls, Idaho. Filed Feb. 10, 1921. Serial No. 443,085. 7 Claims. (Cl. 171—119.)



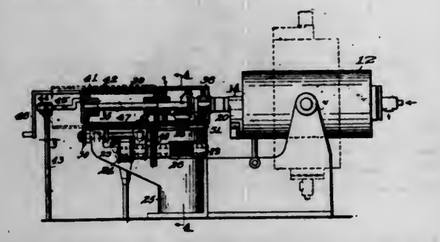
1. A selective current regulator comprising a movable armature and a primary winding thereon, a closed stationary core with poles situated diametrically opposite each other, a secondary winding on each of said poles and means for altering the inductive relation between the windings to deliver an induced current to the load selectively ranging from maximum strength to approximate zero strength and means choking down the current flow in the primary winding.

1,454,006. TAIL-CUTTING DEVICE FOR TUBULAR PLATES. HENRY A. WISE WOOD, New York, N. Y., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Mar. 11, 1915, Serial No. 13,733. Renewed May 16, 1919. Serial No. 297,565. Divided and this application filed Dec. 11, 1919. Serial No. 344,235. 14 Claims. (Cl. 29—21.)



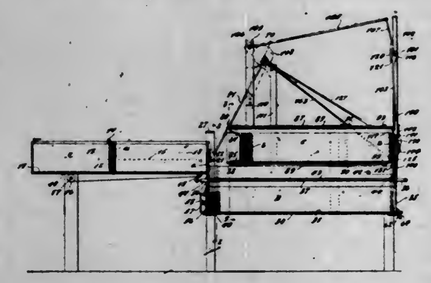
1. The combination with a support for a cast plate, and means for ejecting the cast plate axially from said support, of a gear, means connected with the first named means for constantly rotating said gear when the first named means is in operation, a hub loosely mounted on the gear, means for connecting said hub with the gear for rotating the hub with the gear, a shaft in alignment with the axis of the support and rotatable with said hub, a tail cutter carried by said shaft at a distance from its center and adapted to rotate therewith, and means connected with said ejecting means for rotating said tail cutter on its own axis while it is rotating around the plate.

1,454,007. FINISHING AND COOLING APPARATUS FOR TUBULAR STEREOTYPE PRINTING PLATES. HENRY A. WISE WOOD, New York, N. Y., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Mar. 31, 1915, Serial No. 18,248. Divided and this application filed Dec. 11, 1919. Serial No. 344,236. 10 Claims. (Cl. 29—21.)



1. In a machine of the character described, the combination of a saddle for receiving a substantially tubular stereotype printing plate, said saddle being of cylindrical form and having a longitudinal fin at the bottom for supporting it and for receiving a gap in the side of the plate, a cylinder freely rotatable on the axis of the saddle for receiving the plate therefrom and having a longitudinal fin adapted to register with said fin, whereby when the plate is moved from the saddle on the cylinder it will be capable of rotating with the cylinder.

1,454,008. ENVELOPE-FILLING MACHINE. POWHATAN J. WOOLDRIDGE, Oldham County, Ky. Filed Aug. 17, 1918. Serial No. 250,295. 37 Claims. (Cl. 93—6.)

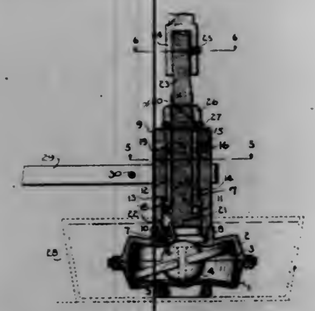


1. An envelope filling machine, comprising in combination flap opening means for operating on a series of envelopes in succession, filling means, and a feedway in which the envelopes are deposited from the flap opening means and in which the opened envelopes are accumulated in a column arranged flatwise together and through which the column of opened envelopes is advanced to the filling means.

1,454,009. DEVICE FOR GRINDING WATER METERS. OTTO ZACHOW, Clintonville, Wis. Filed Feb. 28, 1922. Serial No. 540,069. 6 Claims. (Cl. 51—26.)

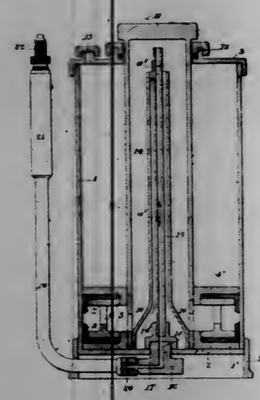
1. A grinding attachment for water meters comprising a body member, means at one end of said member for detachable connection with the piston casing of the meter, an inner sleeve slidably fitted in the body member, means for holding said sleeve from longitudinal movement, a

spindle traversing the said sleeve and adjustable longitudinally therein, means for causing the spindle and



sleeve to revolve together, and means formed on the lower end of the spindle to oscillate the meter piston when said spindle rotates.

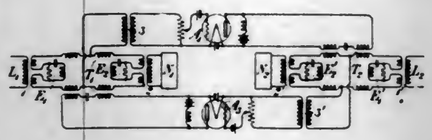
1,454,010. PNEUMATIC JACK. RAOUL BERNAT, Bordeaux, France. Filed Dec. 9, 1921. Serial No. 521,216. 4 Claims. (Cl. 138—9.)



1. A pneumatic jack comprising a casing, a hollow piston in said casing, flexible gaskets positioned between the piston and casing, said hollow piston being formed to receive a fluid, means for supplying pressure fluid to the lower face of the piston, means for supplying fluid to the hollow piston, and means for permitting the pressure of the fluid supplied to the lower face of the piston, to be exerted in the hollow piston, whereby to pack the gaskets against the casing.

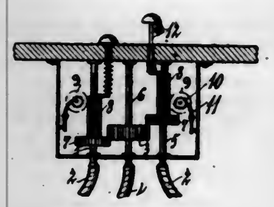
1,454,011. SYSTEM FOR ATTAINING UNIFORM ATTENUATION. OTTO B. BLACKWELL, Garden City, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 29, 1918. Serial No. 242,566. 11 Claims. (Cl. 179—170.)

1. In a transmission system, a transmission line the attenuation of which varies with frequency, a repeater system associated with said transmission line, said repeater system including two amplifying transmission paths, one for transmitting in one direction, and the other for transmitting in the opposite direction, and a non-amplifying attenuation equalizing means associated with the repeater system and said transmission line, said equalizing means being so proportioned with reference to



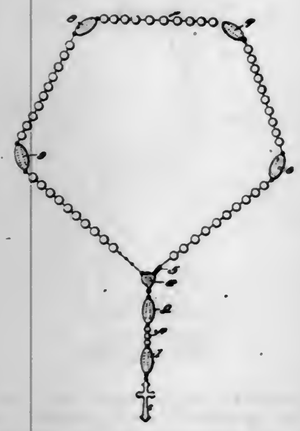
the line that the resultant attenuation of currents transmitted over the system will vary with frequency in a predetermined manner.

1,454,012. TURNING INDICATOR FOR AUTOMOBILES. LEIF TORJUSEN BOLKESJÖ, Notodden, Norway. Filed Dec. 6, 1922. Serial No. 605,274. 6 Claims. (Cl. 116—46.)



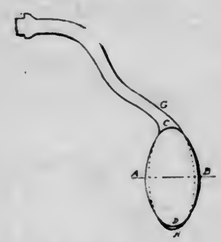
1. In a signalling device, a prime mover, a signal element, and power transmitting means for driving the signal element from the prime mover, said power transmitting means including a manually controlled device for connecting and disconnecting the prime mover from the signal element.

1,454,013. CHAPLET. CHARLES W. BOULTON, Waltham, Mass. Filed May 24, 1922. Serial No. 563,453. 2 Claims. (Cl. 40—2.)



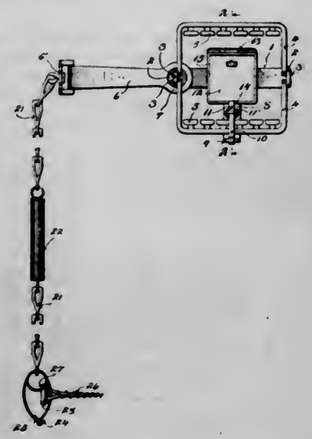
1. In a chaplet of five decades, a connecting piece between the first and last of said five decades having an indicator projecting from one portion of said connecting piece to direct the user in telling the beads, and a series of directional elements spacing said decades.

1,454,014. FINGER GUARD FOR THE LINE-SPACE AND CARRIAGE-RETURN LEVERS OF TYPEWRITERS. WINIFRED VIOLET REDFERN and ALFRED EDWARD REDFERN, Victoria, British Columbia, Canada, assignors of one-third to Charles Edward Redfern, Victoria, British Columbia, Canada. Filed May 9, 1922. Serial No. 559,603. 1 Claim. (Cl. 197—180.)



In a typewriter and in combination with the line space and carriage return lever thereof, said lever having a thumb or finger engaging portion: a resilient pad having an area corresponding to said thumb or finger engaging portion and one or more loops integral with said pad adapted to surround the thumb or finger engaging portion and retain the pad in contact with said portion.

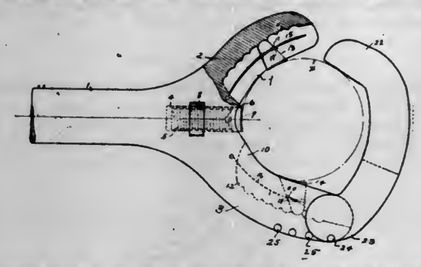
1,454,015. ANIMAL TRAP. MICHAEL SCHUETZ, Sheboygan, Wis., assignor of one-fourth to Frank Schommer, Sheboygan, Wis. Filed June 9, 1922. Serial No. 567,081. 1 Claim. (Cl. 43—92.)



A spring trap, a vertically pivoted trigger plate actuable to release the jaws of the trap upon depression, a receptacle, the side walls of which surround the trigger plate, said plate serving as a closure for said receptacle, and one of the side walls being pivoted to permit access to the receptacle for the purpose of setting the trigger.

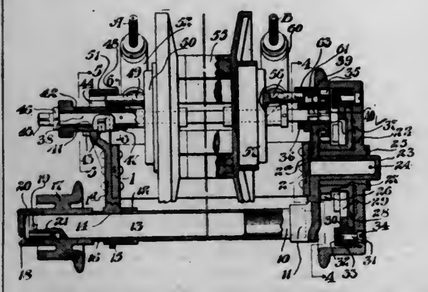
1,454,016. PIPE WRENCH. BUFORD J. STEEN, Christine, Tex. Filed Oct. 5, 1920. Serial No. 414,805. 3 Claims. (Cl. 81—66.)

1. A wrench, including a handle, one end of which is formed with diverging jaws, said handle having a socket between the jaws, a dog mounted in said socket, means for adjusting said dog, the inner faces of said jaws



having slots, a dog adjustably mounted in each slot, and a claw adjustably mounted on one of said jaws.

1,454,017. REEL. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffery Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 20, 1916. Serial No. 132,451. 40 Claims. (Cl. 191—12.)



1. In a reel transporting means, wheeled reel supporting axles disposed in different horizontal planes, a reel, and means for supporting said reel for rotation about an axis spaced from said first mentioned axes and whereby said reel intersects one of said planes.

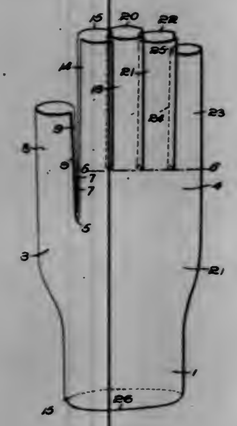
1,454,018. LAWN-EDGE TRIMMER. JOSEPH LEES, Allentown, Pa. Filed May 12, 1920. Serial No. 380,809. 3 Claims. (Cl. 97—227.)



2. A lawn edge trimmer comprising a blade, a distance-gauging pointer which is bendable to indicate various

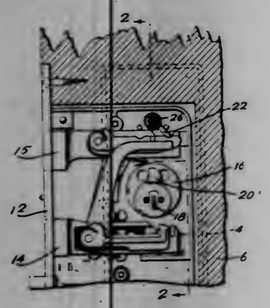
distances from the blade, a turf remover, with a bent and recessed portion carried on the face of the blade, and means for clamping the remover in any position and the pointer in the recess of said portion.

1,454,019. GLOVE AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed May 26, 1919. Serial No. 299,788. 20 Claims. (Cl. 66—4.)



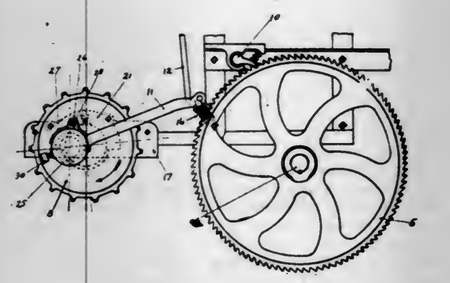
1. A knitted glove having a seamless hand covering, a thumb covering knitted integral with the hand covering and having a seam only at the inside and across the end thereof, a fourth finger covering having a seam extending only along the inside and across the top thereof, and third, second and first finger coverings having seams at opposite sides and across the ends thereof.

1,454,020. LOCK. ERNEST L. TEICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 25, 1922. Serial No. 531,587. 7 Claims. (Cl. 70—46.)



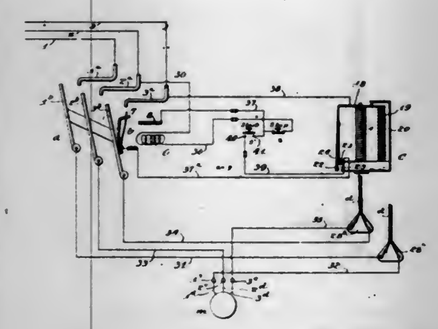
2. A lock of the class described having in combination, a main bolt and an auxiliary bolt having connections between them, a device operable from the outside of the door for projecting and retracting the main bolt, and a device operable from the inside of the door for projecting and retracting the auxiliary bolt, both of said devices being operable by a common key and the second mentioned device being constructed to prevent removal of the key when the auxiliary bolt has been projected thereby.

1,454,021. SELF-LUBRICATING WHEEL AND PITMAN. EDGAR C. LITCHFIELD, HENRY L. LITCHFIELD, and VICTOR SPEER, Waterloo, Iowa; said Speer assignor to said Edgar C. Litchfield and said Henry L. Litchfield. Filed July 18, 1921. Serial No. 485,424. 10 Claims. (Cl. 74—38.)



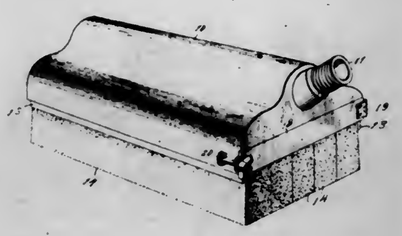
1. A wheel having on opposite sides cup-shaped bearing members whose open ends are directed outwardly, one of said bearing members being at the axis of the wheel and the other being displaced from said axis.

1,454,022. THERMALLY-CONTROLLED SWITCH. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed July 10, 1922. Serial No. 573,857. 5 Claims. (Cl. 172—179.)



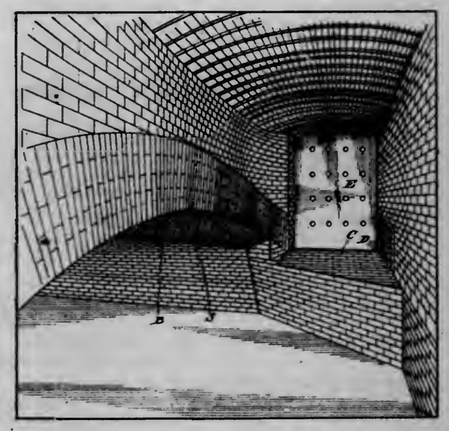
1. The combination with normally open main and auxiliary switches and a magnet for closing the same, of a thermostat relay having two sets of contacts adapted to open successively when the thermostat is heated, a normally open start switch, a circuit for initially energizing the magnet including the relay contacts first to open and the start switch, and a holding circuit for the magnet including the relay contacts last to open and the auxiliary switch.

1,454,023. FOUNTAIN BRUSH. GEORGE M. GALE, San Antonio, Tex. Filed Feb. 28, 1922. Serial No. 539,823. 2 Claims. (Cl. 15—127.)



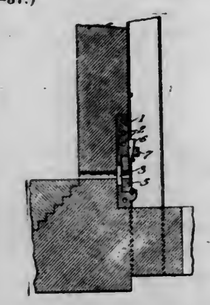
1. A fountain brush including a hollow head portion having longitudinal side-grooves, tongued slides engageable with the grooves of the holder, felt strips arranged side by side and extending longitudinally between the said slides, means fastening the strips to the slides, said strips providing a bottom for the hollow head, said head having a hose connection, and the strips being notched to provide conduits between the strips.

1,454,024. REVERBERATORY SMELTING FURNACE. ARCHIE NOEL JETTE, Anaconda, Mont. Filed Aug. 10, 1920. Serial No. 402,556. 14 Claims. (Cl. 263—40.)



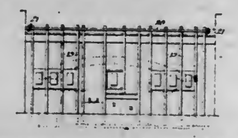
1. A reverberatory furnace comprising a furnace chamber and means for heating the same, a secondary chamber at the exit forming a metal bay, said secondary chamber being of sufficient size to permit the gases coming from the furnace to expand, and an exit flue from the secondary chamber having a damper therein.

1,454,025. SMELTING FURNACE. ARCHIE NOEL JETTE, Anaconda, Mont. Original application filed Aug. 10, 1920, Serial No. 402,556. Divided and this application filed Jan. 3, 1921. Serial No. 434,759. 5 Claims. (Cl. 266—37.)



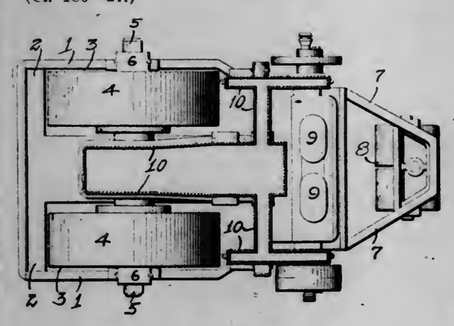
1. In a reverberatory furnace, a cast-iron plate having a tap-hole and a recess in the front thereof, a tap-hole block seated in the said recess and means for detachably securing the block in the recess.

1,454,026. CONSTRUCTION OF SMELTING FURNACES. ARCHIE NOEL JETTE, Anaconda, Mont. Original application filed Aug. 10, 1920, Serial No. 402,556. Divided and this application filed Jan. 3, 1921. Serial No. 434,760. 5 Claims. (Cl. 263—46.)



1. The combination with a reverberatory furnace, of frame constructions bearing on opposite ends of the furnace, lateral skew-back plates for supporting the arch of the furnace and connected with the said frame constructions to serve as ties therebetween.

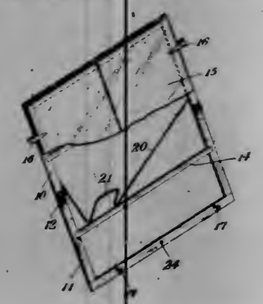
1,454,027. TRACTOR. WILLIAM KNUDSEN, Fremont, Nebr. Filed Apr. 15, 1919, Serial No. 290,264. Renewed Sept. 20, 1922. Serial No. 589,487. 6 Claims. (Cl. 180—27.)



1. In a tractor having a motor and a frame structure providing a chassis extending continuously around the tractor, a platform confined with the frame structure, and a casing adapted to house the driving means from the motor to the driving axle, said casing comprising a unitary structure divided horizontally into upper and lower sections, the latter being fixed and the former being re-

movable, providing means for obtaining access to the driving means, said lower section of the casing adapted to support the bearings for the drive shafts of the driving means.

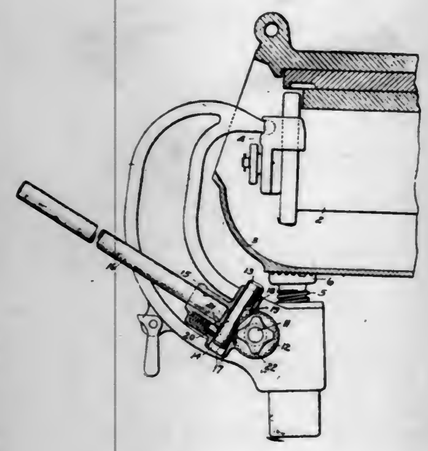
1,454,028. NEWSPAPER EASEL. ANDY KROL, Uniontown, Pa. Filed Oct. 16, 1922. Serial No. 594,682. 1 Claim. (Cl. 45—57.)



A newspaper easel comprising a sectional frame composed of two like elements each consisting of two side members and a transverse member connecting therebetween, hinges engaging the adjacent ends of said side members, hooks and eyes disposed at the opposite sides of said hinges, flexible supports extending across each pair of side elements, means on the lower transverse bar for supporting articles disposed on the frame, removable means engaging the articles to the upper section of said frame, and means removably engaging the side elements of said frame for adjustably supporting the same.

1,454,029. SELF-LOWERING JACK. CHARLES WILLIAM RIPSCH and JAMES C. DAWLEY, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed June 27, 1921. Serial No. 480,540. 14 Claims. (Cl. 254—34.)

1. In a lifting jack, a frame adapted to be suspended from a car journal, a lifting element carried by said frame and adapted to extend beneath the load to be lifted, means to actuate said lifting element to elevate the load, said lifting element being of such a character that when unrestrained it will move downward under the weight of the load, and manually operable means for controlling the downward movement of said lifting element.



7. In a lifting jack, a frame, a lifting element carried by said frame and having a screw threaded portion, a nut rotatably mounted in said frame to receive said threaded portion of said lifting element, the threads of said lifting element and said nut having such a pitch that the downward thrust of said lifting element will rotate said nut, a worm wheel connected with said nut, a worm meshing with said worm wheel and adapted to be rotated thereby, means for actuating said worm to impart upward movement to said lifting element, and a device connected with said worm to control its movement by said worm wheel.

Patents Nos. 1,454,030 to 1,454,839.

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Labels	19—No.	25,906 to No.	25,924, inclusive.
Prints	15—No.	6,688 to No.	6,702, inclusive.
Reissues	2—No.	15,595 to No.	15,596, inclusive.
Designs	36—No.	62,315 to No.	62,350, inclusive.
Patents	810—No.	1,454,030 to No.	1,454,839, inclusive.
Total	1279		

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents, final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,086,489, W. R. Walker, Treating steel in electric furnaces with basic hearths, decided Feb. 24, 1923, claims 1, 2, 3, 4, 5, 7, 8, and 9.

Pat. 1,355,594, B. G. Dunham, Telephone-exchange system, decided Mar. 31, 1923, claims 1, 2, 3, 7, 8, 10, 11, and 12.

Pat. 1,390,105, B. H. Erwin, Drawbolt, decided Mar. 29, 1923, claim 1.

Pat. 1,404,796, H. B. Schofield, Cooling system for internal-combustion engines, decided Mar. 27, 1923, claims 1, 2, 3, 4, and 5.

Pat. 1,430,777, W. O. Wille, Signaling device for vehicles, decided Mar. 17, 1923, claims 1, 2, and 6.

TRADE-MARK REGISTRATIONS CANCELED.

112,823. Sleeping garments—viz, night robes and pyjamas. Ernest Simons Mfg. Co., of Port Chester, N. Y. Registered August 29, 1916. Canceled March 13, 1923.

159,889. Maltless beverages, more specifically soda water. Grone & Co., of St. Louis, Mo. Registered October 10, 1922. Canceled March 28, 1923.

165,882. Vegetable preparation for assimilating the food by regulating the stomach and bowels of infants and children, thereby promoting digestion. The Centaur Company, of New York, N. Y. Registered March 20, 1923. Canceled April 21, 1923.

New Edition of the Patent Laws.

A new edition of the patent laws of the United States has been issued, revised to April 1, 1923.

Disclaimer.

1,452,429.—*George T. Lemelin*, Springfield, Mass. SPRING OILER. Patent dated April 17, 1923. Disclaimer filed April 21, 1923, by George T. Lemelin and by Edward A. Menard, assignee of one-half interest.

Hereby enter this disclaimer to said patent in toto.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Apr. 11, 1923.*

Austin Poor & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ireland Bros., Inc., of 102 Franklin Street, New York, N. Y., for registration of a trade-mark and trade-mark registered June 26, 1906, No. 54,319, to Austin, Poor & Co., of 72 Leonard Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Austin, Poor & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Austin Poor & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 16, 1923.*

Jiffy Apron Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Jiffy Jumper Mfg. Co., of 39 West Adams Street, Chicago, Ill., and Guiterman Brothers, of Fourth and Sibley Streets, St. Paul, Minn., for registration of trade-marks and trade-mark registered February 9, 1915, No. 102,521, to Jiffy Apron Company, 255 Gratiot Avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to said Jiffy Apron Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jiffy Apron Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 27, 1923

(Total number of applications awaiting action, excluding Trade-Mark Division, 73,728; Trade-Mark Division, 3,909. Oldest new case, May 2, 1922; oldest amended, May 18, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Aug. 1	July 11	1,159
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	June 29	July 8	1,599
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 17	May 19	1,735
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 15	*Jan. 18	1,408
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 13	July 1	1,361
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Aug. 18	Dec. 9	1,588
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	July 12	Sept. 20	2,482
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Nov. 13	*Jan. 2	1,530
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 20	*Mar. 15	855
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 15	July 31	1,400
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Oct. 14	Sept. 27	1,029
322	12. PIERCE, P. P., Machine Elements	Sept. 21	Oct. 28	1,528
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	May 11	*Jan. 20	1,325
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 5	*Apr. 6	1,223
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 3	Aug. 21	2,015
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 1	May 25	2,511
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	June 6	Oct. 23	1,482
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 8	May 18	2,053
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 3	*Jan. 6	803
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 5	Oct. 17	1,925
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 9	Nov. 3	1,040
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 5	Oct. 5	619
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 2	May 20	862
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 28	Sept. 12	1,543
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 19	*Jan. 11	434
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	June 7	July 25	890
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 5	June 13	2,180
225	28. BENSON, A. R., Internal-Combustion Engines	June 29	Sept. 18	1,560
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 28	Dec. 18	715
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 14	*Jan. 4	1,793
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 5	July 7	1,741
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 1	Sept. 1	1,293
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	June 30	July 3	1,656
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Oct. 16	Dec. 6	743
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Dec. 14	*Feb. 15	1,028
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Oct. 9	Sept. 13	1,930
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 27	June 27	1,865
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	May 26	June 2	1,946
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 10	June 30	1,526
269	40. OBERLIN, J. J., Bearings; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	July 6	Oct. 10	2,127
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 14	Aug. 28	956
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 23	June 21	1,737
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 21	July 28	1,312
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	June 24	Dec. 1	1,302
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 14	Sept. 12	1,478
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	July 28	Aug. 10	1,465
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	June 29	Oct. 18	1,221
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 10	June 14	2,384
333	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	June 19	July 24	746
102	DESIGNS: C. O. MARKHAM (Acting)	July 20	Nov. 18	2,595
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Dec. 30	Mar. 28	3,890
	{Labels and Prints	*Apr. 30	*Apr 24	19

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

JACOBSEN *v.* CARLSON.

Decided February 17, 1923.

INTERFERENCE—SUBSTITUTION OF REISSUE APPLICATION FOR PATENT, WITH ISSUE UNCHANGED.

A patentee involved in interference can not file a reissue application and have it substituted for the patent, the issue remaining the same, and have the interference dissolved on the ground of unpatentability of the issue.

ON PETITION.

FUEL-BURNING APPARATUS.

Mr. Richard Eyre for Jacobsen.

Messrs. Brown, Boettcher & Dienner for Carlson.

FENNING, *Assistant Commissioner:*

Patent No. 1,361,263 issued to Jacobsen. Carlson, having an application filed before Jacobsen's application was filed, copied claim 3 of the Jacobsen patent, which the Examiner refused to allow to him. On appeal the Examiners in Chief held that Carlson was entitled to make the claim, and this interference was accordingly declared. Jacobsen, alleging that the count is broader than is justified by the prior art and realizing that since he had a patent he could not move to dissolve the interference on the ground that the issue was unpatentable, filed a reissue application including the present count and other narrower claims. He then moved to substitute the reissue application for his patent in the interference, believing that the contest would then be between two pending applications and the question of the patentability of the claim could be raised. This motion was denied. This was right, else it would be possible in substantially every interference involving a patent for the patentee to file an application for reissue, move to dissolve on the ground of nonpatentability, and if he prevailed and the interference were dissolved then abandon his reissue application and retrieve his original patent. This would be merely doing by indirection what cannot be done directly; but it cannot be allowed.

Jacobsen has also petitioned the Commissioner to exercise supervisory authority and determine that the count is unpatentable, and so terminate the interference. Since the count is the claim of an issued patent and since it has been allowed to applicant after an appeal to the Examiners in Chief, the showing to justify holding the claim invalid must be exceptionally strong, and such showing is not present here.

I have gone into the matter sufficiently to satisfy myself that Carlson is entitled to make the claim and also that there is a real difference between the inventions of Carlson and Jacobsen, on one hand, and the inventions of the Doble patent and the Scott patent of the prior art. In Doble the ignition circuit and the blower circuit are closed at the same time and through a single contact. The same is true with respect to Scott. It is clear, therefore, that neither of these can meet the claim which calls for separate and successive closures of the ignition circuit and the blower circuit.

The Law Examiner is affirmed.

The petition is denied.

Court of Appeals of the District of Columbia.

IN RE SCHROEDER.

Decided June 5, 1922. No. 1,448.

1. PATENTS—REISSUE WITH BROADER CLAIMS NOT GRANTED AFTER LAPSE OF TWO YEARS, EXCEPT UNDER SPECIAL CIRCUMSTANCES.

Where more than two years have elapsed between the issue of the original patent and the filing of the reissue application, abandonment of improvements not claimed will be presumed unless the delay is accounted for or excused by special circumstances, and a reissue with broader claims will not be allowed after the lapse of that time.

2. SAME—FACT OTHER PATENTEES HAVE ACQUIRED RIGHT TO UNCLAIMED IMPROVEMENT DOES NOT DEFEAT LIMITATION AGAINST REISSUE.

The right of the public to use whatever was disclosed in an application for a patent, but not claimed, is sufficient to warrant the denial of a reissue patent containing broader claims after the lapse of two years where only the rights of the applicant and the public are to be considered, notwithstanding the fact that intervening patentees have since claimed the abandoned matter, and thereby prevented the public from enjoying the fruits of the abandonment.

APPEAL from the Commissioner of Patents.

In the matter of the application of Simon E. Schroeder for reissue of a patent. From a decision of the Commissioner of Patents, denying the application, applicant appeals. Affirmed.

Mr. Percy B. Hills and *Mr. William V. Tefft* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents, denying appellant's application for reissue of a patent relating to improvements in gearing.

There are 46 claims, the first 7 of which are claims of the original patent. The remaining 39 are copied from patents, the applications for which were copending with appellant's original application, and, with one exception, filed prior to appellant's application.

[1] It is unnecessary to consider the subject-matter of the invention, since the appeal raises only questions of law. The application for reissue was filed over four years after the issue of the original patent, and it is conceded that the 39 claims copied from other patents are broader than the claims of the original patent. Applicant, therefore, comes clearly within the well-established rule of reissue that where, as here, more than two years have elapsed between the issue of the original patent and

the filing of the reissue application, abandonment will be presumed, unless the delay is accounted for or excused by special circumstances.

This court in the case of *In re Starkey* (21 App. D. C., 519; 104 O. G., 2150), following *Mahn* v. *Harwood* (112 U. S., 354; 5 Sup. Ct., 174; 6 Sup. Ct., 451; 28 L. Ed., 665; 30 O. G., 657), *Topliff* v. *Topliff et al.* (145 U. S., 156; 12 Sup. Ct., 825; 36 L. Ed., 658; 59 O. G., 1257), and a long line of decisions of the Supreme Court, said:

We must now regard the law as well settled by the Supreme Court of the United States that, after the lapse of two years after the issue of a patent, a reissue which seeks to enlarge the claims of the original patent will not be granted, or, if granted, will be held invalid, unless special circumstances are shown to excuse the delay.

The tribunals below found that there were no mitigating circumstances which would bring appellant within the exception to the rule, and with this holding we are in accord.

[2] Appellant contends that we are not at liberty to consider the effect of intervening patents or pending applications, but only rights as between himself and the public; and, since no rights have inured to the public, because of intervening patents embracing the claims here involved, the limitation of the statute is without application to this case. After the lapse of two years from the issue of appellant's patent, the public had a right to use whatever had not been claimed. Appellant's dedication to public use of whatever was unclaimed in his invention inured to the public, and the mere fact that intervening patentees claimed the abandoned matter, and thereby prevented the public from entering and enjoying the fruits of appellant's abandonment, affords him no relief.

The property right in a patent is purely statutory, and, whenever the patent fails, no property right remains; the invention belongs to the public. If the public is estopped by the claims of others, it is no concern of the one who has suffered a statutory forfeiture. It is the fate which the law inflicts for failure to claim the invention within the statutory time, irrespective of what others may have done during the period of delay. The effect of their operations upon the right of the public to avail itself of the delay and consequent abandonment in no respect alters appellant's status or weakens the presumption of abandonment to the public. Appellant's situation, therefore, is not different from what it would have been, had no patents, containing the claims of the present issue, intervened.

The decision of the Commissioner of Patents is affirmed.

U. S. Circuit Court of Appeals—Second Circuit.

VICTOR TALKING MACH. CO. *v.* STARR PIANO CO.

Decided April 4, 1922.

[281 Fed. Rep., 60.]

1. PATENTS—896,059, FOR DISK SOUND RECORD FOR TALKING MACHINES, HELD VOID FOR LACK OF INVENTION AND FOR ABANDONMENT.

The Johnson patent, No. 896,059, for disk sound record for talking machines, claims 6 and 8, *Held* void for lack of invention and also for abandonment.

2. SAME—KEEPING INVENTION SECRET FOR YEARS CONSTITUTES "ABANDONMENT."

The keeping of a process secret for years by the inventor constitutes abandonment under the patent laws.

3. SAME—EXPENDITURES FOR NECESSARY EXHIBITS HELD TAXABLE AS COSTS.

Expenditures made for motion pictures and photographs of cutting tools in operation and of the grooves made by these tools, where both tools and grooves were microscopic, and the pictures were necessary to enable the court to understand the processes involved, *Held* taxable as costs.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by the Victor Talking Machine Company against the Starr Piano Company. Decree for defendant, and complainant appeals. Affirmed.

STATEMENT OF THE CASE.

Appeal by the plaintiff from a decree of the United States District Court for the Southern District of New York, dismissing the bill of complaint for lack of invention and for abandonment.

The suit was to restrain alleged infringement of United States Letters Patent No. 896,059, granted August 11, 1908, to Eldridge R. Johnson. The specification states:

My invention relates to improvements in sound records of either the cylindrical or disk type, and has for its object to provide an improved record such that the walls of the grooves shall be so formed as to reproduce the sounds of the record in tones more clear and distinct than has heretofore been possible from records of prior construction.

In forming records upon sound recording machines for use in talking machines, such as the gramophone, where the sound waves are recorded in the form of a groove of even depth having lateral undulations as distinguished from an undulatory groove of varying depth, as in the type of machines of which the phonograph is an illustration, it is essential, in order to produce a clear record, that the material be neatly and cleanly cut from the grooves in the process of recording so that smooth, well-defined surfaces be formed in the walls of a well-defined groove.

In the art of making sound records comparatively little attention has been paid to the finishing and the forming of the surfaces of the walls of the record groove. The vertical groove has heretofore been cut by a recording tool, which, owing to the character of the groove and the shape of the tool, has not only had a tendency to tear the material of the record, or distort the same, so as to form roughnesses which, in the reproduction of the record or its duplicate, cause disagreeable sounds, owing to the harsh vibrations of the diaphragm caused thereby, but also, among other things, in the vertical type of record, the resistance on the cutting stylus in gouging out the material increases in proportion to the depth, which objection is overcome in my cut laterally undulating record groove, where the resistance to the force exerted by the cutting stylus is uniform and even.

I have discovered by careful experiments that the best results are obtained in a cut-out laterally undulatory groove of substantially constant depth in a record tablet, preferably of wax or other suitable material, and furthermore, when the walls of the groove diverge from the bottom of the same to the surface of the record, or, more specifically, when the walls of the groove are formed by surfaces which in cross section give the lines of a segment of an ellipse, the groove being widest at its mouth, and gradually diminishing in its width toward the bottom. By this construction, the material is neatly and accurately cut out, and forms a groove having smooth and well-defined walls. The recording needle has greater freedom of oscillation, and by reason of the relative contour of the walls of the groove with the outline of the needle this construction prevents any binding effect and secures a maximum ease of movement of the needle with a minimum of wear upon the record. * * *

It is understood that in reproducing, the record thus formed may be used for reproducing purposes directly, or a more durable and indestructible record may be reproduced by various processes from the original record. * * *

The claims relied upon are the following:

6. A disk sound record having a laterally undulatory groove of substantially constant depth in which the record groove was formed by cutting out and removing the material in forming the record grooves, the walls of the said groove diverging from the bottom of the same to the surface of the record tablet.

8. A disk sound record comprising a spirally disposed laterally undulatory groove of substantially constant depth in which the record groove was formed by cutting out and removing the material in forming the record groove, substantially as described.

The defenses were lack of invention, anticipation, and abandonment.

A preliminary injunction was denied in the district court and also on appeal by this court (263 Fed., 82).

Messrs. Kenyon & Kenyon (*Mr. William Houston Kenyon, Mr. Richard Eyre, Mr. John D. Myers, Mr. George T. Bean*, and *Mr. Edgar F. Baumgartner*) for the plaintiff.

Messrs. Kerr, Page, Cooper & Hayward (*Mr. Parker W. Page, Mr. Drury W. Cooper*, and *Mr. Thomas J. Byrne* of counsel) for the defendant.

Before ROGERS, Circuit Judge, and AUGUSTUS N. HAND and KNOX, District Judges.

AUGUSTUS N. HAND, *Dis. J.* (after stating the facts as above):

[1] The invention claimed in the patent in suit and expressed in the two claims in issue is defined by complainant's counsel as embodying: (1) A master record, (2) in disk form, (3) with spiral laterally-undulating sound-record groove of the gramophone type, i. e., of microscopic size and of uniform depth and trench-like for piloting as well as for sound-reproducing purposes, (4) the groove being formed by the direct action of sound waves, (5) in wax or waxlike material, (6) cut out and the material of the groove removed (7) in such way that it becomes and is a well-defined groove of uniform size throughout having continuously smooth, well-defined side walls, both of the smooth side walls contributing by their lateral undulations an accurate reproduction of the composite sound wave being recorded, (8) the groove being everywhere and uniformly diverging (this last limitation appearing in claim 6, and not in claim 8).

The patent in suit came from a division in the Patent Office. The original application was stated to relate to an invention for improvements in cutting tools for sound-recording machines. It was filed August 16, 1898, and finally resulted in Patent No. 778,975. The original specification nowhere claimed any invention for laterally cutting a wax tablet for use as a matrix or for direct reproduction. Indeed it said:

In practice in the production of a record a thin metal plate may be employed upon which is evenly distributed a coating or layer of semiplastic material or partly hardened varnish, or other suitable material. * * *

I have herein referred briefly to the class of machine to which my invention is particularly applicable, so that the cutting operations may be understood, but, as the cutting tool alone is the subject of my present invention, I have not deemed it necessary to herein illustrate, or further describe, the construction of machine to which it may be applied. * * *

The object of my present invention is to provide a cutting tool for cutting grooves in wax or other suitable material for recording sound waves. * * *

The only suggestion in the original specification of a wax matrix capable of direct reproduction is in the following:

It is understood that in reproducing the record thus formed may be used for reproducing purposes directly, or a more durable and indestructible record may be reproduced by various processes from the original record. This feature, however, forms no part of my present invention herein described.

A wax matrix for reproduction was not only not claimed as an invention, but manifestly the process first described referred to the sort of process already in use by Berliner carried out with an improved kind of tool. In the Berliner process a metal plate was coated with lamp-black or other material on which was traced a laterally undulatory record to expose the surface of the disk, which was then etched to form the record groove. Even though cutting out a wax tablet was contemplated, the reference was incidental, and was not claimed as an invention even when the divisional application was filed in 1904. The claims of 1904 related to the shape of the laterally-formed groove. Even then Johnson apparently regarded everything else as old.

Difficulties had been encountered in making satisfactory records by the etching process of Berliner, and in December, 1897, Johnson was employed by the Berliner Company to devise a "new system of taking gramophone records and making matrices" that would "give * * * better results." Nafey worked for Johnson in 1898, and left about September of that year. He was succeeded by Rhinehart, who was asked whether he said to a man named Pancoast that Johnson's apparatus was a failure before Rhinehart came. To this he replied:

Well I may have said it looked like a failure, or something like that. A man would say offhand, you know, when a man is on his oath and is supposed to tell the truth, that he will tell things as straight as he can. If you are just talking to a man ordinarily, you are not so particular whether it is absolutely straight or not. It is more like a story.

Now, whatever preliminary steps Johnson may have made, it was not until 1900, just before Turner came to England, that the process was completed. As Royal, the secretary of the Victor Talking Machine Company, said in his affidavit in 1901: "We never used the first process purchased in 1898." To be sure, Royal testified at the trial of the present suit that his statement was not intended to apply to the cutting out of a lateral groove in wax, but the testimony of Johnson and his witnesses is insufficient to meet the burden Johnson has in order to overturn the application of Jones filed November 18, 1897, nine months prior to the filing date of the patent in suit. The Jones patent, No. 688,739, related to the commercial production of sound records, and had for its object the production of—

a number of copies of an original record characterized by lateral undulations of substantially uniform depth. Heretofore records of this character, generally known as "gramophone records," have been produced by first tracing the lateral undulations or zigzags in a fatty (inky) film that protects an etching surface, then etching this tracing into the material to form a groove, then running a blunt stylus through this groove to smooth the ragged etched surface, and finally electroplating this touched-up surface and pressing the matrix so formed into a suitable material to form the commercial record. The etching process, for reasons unnecessary to state, causes considerable departure or deviations, so that the etched groove is far from being a correct representation of the path of the recording stylus. The deformations from this cause are still further exaggerated by the use of the smoothing stylus. I avoid these objections by producing in the first instance a fully finished original record whose grooves are of the final depth required, slight, but appreciable, thus doing away with the necessity for etching and the subsequent smoothing made necessary thereby. The original records made by this process are electroplated, and the electroplate matrix used as a die in the ordinary manner.

In carrying out my invention I employ a disk or tablet, of suitable recording material (as wax or wax-like

composition, preferably rendered sufficiently hard, as by an admixture of rosin, to withstand the treatment employed in giving it an electrical conducting surface). Upon the surface of this tablet I then form by the use of a sound-recording machine in a well-known manner a spiral groove of practically uniform depth that contains lateral sinuosities or irregularities corresponding to or representing the sound waves recorded. This cutting or engraving of a record groove by the lateral movement of the stylus differs from the operation of the well-known graphophone system in that the resistance offered the stylus of a gramophone in cutting downward to produce the vertical irregularities characteristic of that system varies practically as the cube of the length of the vibrations of the diaphragm and stylus, whereas in producing my original records the resistance encountered by recording stylus is exactly equal to the length of the vibrations. On account of this difference in principle I am enabled to obtain more accurate, and therefore better, records of the original sounds. The original record so formed is an exact copy of the record to be used for reproducing. It is a complete and finished record, its grooves being of a slight yet appreciable depth, and no deepening or retouching by an etching fluid or in any other manner is required. * * *

The specification (page 2, line 50) of the patent in suit states:

It is understood that in reproducing the record thus formed may be used for reproducing purposes directly, or a more durable and indestructible record may be reproduced by various processes from the original record.

It was contended by complainant's counsel that Jones did not intend to employ a cutting out process from a wax record because the word "cutting" was injected into his specification two or three years after the original application was filed in the Patent Office. He did, however, use the word "engraved," and in his specification as originally filed said:

I first make a plate or disk of hard wax, preferably beeswax hardened by the adding of a small quantity of rosin or pitch.

This plate or disk is then placed upon an instrument commonly employed for the purpose of recording sound vibrations, and a helical groove of even depth containing sinuosities representing sound waves produced by the movement of the diaphragm and stylus is engraved upon the plate or disk.

We think it evident that this was a cutting-out process within the meaning of the art and the words used in the Johnson specification and claims.

The Jones patent seems to disclose the same process as the patent in suit and to include the process for making a sound record cut out of a wax tablet described in claims 6 and 8 in issue. Indeed, Johnson himself admitted in a former litigation that he could see no difference between the Jones process and his. Judge Mayer held in *American Graphophone Co.* v. *Emerson Phonograph Co.* (D. C., 255 Fed., 574) that the patent in suit did not anticipate the Jones patent.

It is a significant fact that Johnson controlled the Universal Talking Machine Manufacturing Company, which was the defendant in the suit of *American Graphophone Co.* v. *Universal Talking Machine Manufacturing Co.* (151 Fed., 595; 81 C. C. A., 139), brought for infringement of the Jones patent, and that it was never contended in that case that the invention of the patent in suit was prior art or anticipated the Jones patent. It was not until after the Jones patent was sustained by this court in the litigation last mentioned that Johnson attempted in his divisional application to expand his claims by employing the words—

cutting out and removing the material forming the record groove,

and we think that the fact that such a method was disclosed by the Jones process cannot be reasonably doubted. Anything that remained to be done to perfect the mechanism commercially was a matter of shop practice which skilled operatives could work out by careful experiments, and was not developed beyond the disclosure of the Jones patent by any improvement which Johnson has set forth. It is not uncommon for inventors to seek to interpret an old application in such a way as to cover an expanding art, but it is legally of no avail. (*American Graphophone Co.* v. *Emerson Phonograph Co.*, D. C., 255 Fed., 574).

In the Edison British patent to Couraud, No. 15,206, 1891, the specification says, at page 4:

The recording surface of the phonogram blank is ordinarily made of wax or wax-like material, and it might be supposed that a steel tool of the best quality would be satisfactory for employment in connection with such a comparatively soft substance. It has, however, been found that such tools are liable to become rough. This is partly due to the chemical action of acids or other substances present in the wax or wax-like composition, of which the phonogram blank is made, and partly to the dulling and roughening action of the fine particles of silica or other hard material which get accidentally mixed with the wax during its manufacture into a blank, or which lodge on the surface of the blank itself. After many trials, it has been discovered that sapphires and similar jewels act in the most effective manner on the wax or wax-like phonogram blank, since the acids thereof do not attack them; they do not rust; and they are able to withstand the dulling action of the hard particles of silica or other substances.

A jewel-cutting tool suitable for the recorder may be in the shape of a cylinder, the outer end being hollowed out; this leaving a curved sharp edge for cutting the surface of the blank. This particular form is, however, not essential. It is mounted in a socket or sleeve at one end of a pivoted lever, the opposite end of which is connected to the diaphragm. * * *

The recorders hitherto used are moved by the diaphragm toward and away from the surface of the blank. An improved form of recorder, in which the recording point moves laterally in a succession of minute arcs, has, however, been devised.

The specification further says, at page 11:

Vibrations are more truly recorded in this manner than by indenting the blank in the usual way; the reproduced sounds being accordingly improved.

The foregoing patent clearly covers cutting from a wax tablet. The Bell and Tainter patent, No. 341,214, granted May 4, 1886, also seems to have disclosed lateral cutting. The specification reads (page 1, line 16):

The invention consists thirdly in cutting or engraving the record in the form of a groove with sloping walls, the sound waves being represented by elevations and depressions at the bottom of the groove or otherwise. The advantage of this form of record is that it forms an efficient guide to the reproducing style.

The Volta article describing the work of Bell and Tainter, which became public in 1896, clearly shows that they were familiar with lateral cutting. Indeed, the closeness of the reference of the Bell and Tainter patent to the patent in suit is further indicated by the statement of Bell and Tainter, at page 2, line 4, of their patent, that:

The invention consists, fifthly, in reproducing directly from the wax record. It is found that such record has sufficient strength to withstand the rubbing action of the reproducing style, so that a considerable number of reproductions can be obtained from it. The smoothness of the wax gives it a great advantage in this regard. So far as we are aware, no one has reproduced sound from a wax record by rubbing a style or reproducer over it.

In view of the foregoing language and general scope of the Bell and Tainter patent, we think it reasonable to infer, as Judge Learned Hand did in the court below, that this court in the case of *American Graphophone Co.* v. *Universal Talking Machine Co.*, supra, sustained the Jones patent over the Bell and Tainter patent because of the novelty and usefulness of the combination of the former, and not because any single element thereof was patentable.

Johnson admitted in his examination that the particular difference between the tool described in Figures 5 and 6 of the Bell and Tainter patent, No. 341,214, is that the Johnson tool had sharper lateral edges. The most that can be said of the Johnson patent in suit is that it disclosed a method of cutting out a lateral undulatory groove of substantially constant depth by an improved form of stylus. Everything except the improved tool which his specification discloses seems to have been old, and the improved tool was apparently a matter of workmanship, and at any rate is not an element in the claims in suit.

The master record in disk form, with a spiral laterally-undulating groove of uniform depth, cut in wax, which plaintiff claims as his invention, was directly foreshadowed by Bell and Tainter, Couraud, and Jones. Nothing remained but work for skilled artisans in order to fabricate a satisfactory sound record. Nothing was achieved worthy of a patent in producing the Johnson matrix.

The plaintiff seeks to save the Johnson patent by the large commercial success of the process employed, but commercial success has already been found by this very court to be attributable to the Jones patent, of which plaintiff was a licensee. (*American Graphophone Co.* v. *Universal Talking Machine Co.*, 151 Fed., 595; 81 C. C. A., 139.) Success cannot be attributable to both patents substantially involving the same process. We think it clear that the patent in suit is void for lack of invention. It seems evident that Johnson invented nothing new in the way of a matrix laterally cut out of wax, and that he did not think that he had done so. He, at most, by more experienced workmanship, produced better results through methods that were undoubtedly old than had formerly been secured.

[2] The only reason offered to meet the contention that the invention, if ever made, was abandoned, is that plaintiff's counsel until after the decision in *American Graphophone Co.* v. *Universal Talking Machine Co.*, supra, in which the Jones patent was sustained, advised defendant that the invention for lateral cutting out of wax was invalid under the Bell and Tainter patent, No. 341,214. Under this advice, Johnson for years relied upon keeping his process secret. Such conduct was a clear abandonment under the decisions. (*Kendall* v. *Winsor*, 21 How., 322; 16 L. Ed., 165; *United States Rifle & Cartridge Co.* v. *Whitney Arms Co.*, 118 U. S., 22; 6 Sup. Ct., 950; 30 L. Ed., 53; 35 O. G., 873; *Macbeth-Evans Glass Co.* v. *General Electric Co.*, 246 Fed., 695; 158 C. C. A., 651; 248 O. G., 501.)

[3] Objection is made to the allowance of $841.64 taxed as costs by the defendant for motion pictures and photographs of cutting tools in operation, and of the grooves made by these tools. It is contended by plaintiff's counsel that these items are not allowable under such decisions as *Wooster* v. *Handy* (C. C., 23 Fed., at pages 61, 62); *Cornelly* v. *Markwald* (C. C., 24 Fed., 187); *Hussey* v. *Bradley* (Fed. Cas., No. 6946[a]). In these cases expenditures for models made and used at the trial and for photolithographing sketches introduced by witnesses in giving their evidence were disallowed. They were treated as expenditures relating to argumentative matters, and not to physical exhibits bearing a direct relation to the patent in suit or infringement thereof, such as photographs of models deposited in the Patent Office or of infringing devices. In this case, however, it was practically impossible for the trial court to get a visual idea of the operation of cutting tools and of the character of the grooves formed by them without illustration and enlargement in the way adopted. Both the tools and the grooves were of microscopic proportions, so that the situation, while not without some resemblance to that of models in other cases, should be differentiated because illustration here was necessary to enable the trial court to understand the processes and to make a proper record for review in this court. Much abuse can arise from too free a taxation of such items of costs as are here under consideration, and it would be better practice to obtain an order of the trial court before incurring the expense, but in this particular case the expenditure seems to have been justified. (*The S. V. Luckenbach*, 197 Fed., 888; 117 C. C. A., 214.)

The decree is affirmed, with costs.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.)

621,540, H. S. Reynolds, Construction of receptacles; 750,394, same, Method of making metal barrels and like structures, suit filed Nov. 13, 1920, U. S. D. C., S. D. N. Y., Doc. E 19/292, *H. C. Cochrane* v. *The Steel Barrel Co. of America, Inc.* **Dismissed for lack of prosecution.**

750,394. (See 621,540.)

775,134, K. C. Gillette, Razor, suit filed June 24, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/12, *Gillette Safety Razor Co.* v. *Rosenbaum & Mogal.* Consent decree for plaintiff; perpetual injunction granted.

819,761, F. Johnson, Pressing apparatus; 972,452, same, Flatirons, suit filed June 23, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/8, *Steam Pressing Iron Co.* v. *N. Rubenstein.*

842,262, R. Z. Snell, Mixing machines, suit filed June 17, 1922, U. S. D. C., S. D. Ohio, Doc. 265, *Construction Machinery Co.* v. *J. S. Spoerl* (*Spoerl Hardware Co.*). Decree pro confesso.

855,038, 948,806, H. P. Ball, Music rolls for mechanical musical instruments, suits filed March 15, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/183, *Holland Development Co.* v. *The Pratt-Read Player Action Co.* Same, Doc. E 26/184, *Holland Development Co.* v. *The Behning Piano Co., Inc.*

860,097, T. R. Jones, Miners' lantern holders, suit filed Aug. 23, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/123, *T. R. Jones* v. *B. Kowaloff & Co.* Patent not infringed; bill dismissed.

890,896, M. Fessler, Process for soldering chain links, suit filed Feb. 9, 1916, U. S. D. C., D. R. I., Doc. 60, *Speidel & Forstner (F. Speidel Co.)* v. *N. Barstow Co.* Perpetual injunction granted.

891,956, W. C. Schmidt, Indicating bottle, suit filed Mar. 19, 1923, U. S. D. C., W. D. N. Y., Doc. 444-C, *W. C. Schmidt* v. *Todd Protectograph Co., Inc.*

927,475, Barberie & Walsh, Safety apparatus for motor cars, suit filed Jan. 5, 1922, U. S. D. C., S. D. N. Y., Doc. E. 20/211, *Barberie Locomotive Appliance Co.* v. *Interboro Rapid Transit Co.* Dismissed with costs to defendant.

930,527, C. S. Burge, Automatically adjustable, strain insulator, house fixtures, suit filed Mar. 15, 1923, U. S. D. C., D. Conn., Doc. E 1645, *Line Material Co.* v. *Brady Electric & Mfg. Co.*

948,806. (See 855,038.)

972,452. (See 819,761.)

995,758, H. M. Alleyn, Antifriction tip for furniture or the like, suit filed Mar. 15, 1923, U. S. D. C., D. Conn., Doc. E 1644, *F. W. Lincoln et al.* v. *Waterbury Button Co.*

1,060,393, F. E. Wright, Torches, suit filed Jan. 4, 1921, U. S. D. C., S. D. N. Y., Doc. E 20/204, *Wright Patents Holding Corp.* v. *Davis-Bournonville Co.*

1,177,688, C. D'Iorio, Coat, Consent decree for plaintiff Mar. 17, 1923, U. S. D. C., S. D. Ohio, *C. D'Iorio et al.* v. *S. Schaengold (Society Brand Clothes Shop.)*

1,203,495, W. D. Coolidge, Vacuum tubes; 1,211,091, same, Cathode-ray devices; 1,326,029, same, Incandescent cathode devices, suit filed Oct. 13, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/194, *Victor X-Ray Corp. and Others* v. *Katode X-Ray Tube Co., Inc.* Patents sustained and held infringed. Perpetual injunction granted.

1,211,091. (See 1,203,495.)

1,321,536, Marcus & Bergen, Trousers waistbands, suit filed Nov. 12, 1920, U. S. D. C., S. D. N. Y., Doc. E 19/285, *Marber Clothing Device Corp.* v. *Raymond Specialty Co.* Dismissed for lack of prosecution.

1,326,029. (See 1,203,495.)

1,388,546, J. Brueck, Nail polish, suit filed Sept. 16, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/157, *J. Brueck* v. *A. Gould.* Case discontinued Sept 27, 1922.

1,410,137, J. A. Hewes, Men's neckwear, suit filed Mar. 19, 1923, U. S. D. C., D. Conn., Doc. E 1647, *J. A. Hewes et al.* v. *G. A. Gay et al.*

1,441,683, R. J. Holzhausen, Stapling machine, suit filed Feb. 24, 1923, U. S. D. C., D. Conn., Doc. E 1640, *Compo Mfg. Co.* v. *E. H. Hotchkiss Co.*

T. M. 110,004, Orange Whistle Co., Nonalcoholic beverages, Final decree for plaintiff, U. S. D. C., M. D. Pa., *V. Jones Whistle Co.* v. *J. Sahle.* Same, suit filed Mar. 15, 1923, U. S. D. C., M. D. Pa., Doc. 379, *V. Jones Whistle Co.* v. *H. Stone et al.*

ADJUDICATED PATENTS.

(U. S. C. C. A. Ohio.) Haefely patent, 858,384, claims 2, 3, and 5, for machine for manufacturing insulating tubes, *Held* not infringed. *Westinghouse Electric & Mfg. Co.* v. *Formica Insulation Co.*, 286 Fed. Rep., 495.

(U. S. D. C. N. J.) Foster patent, 1,081,731, for electric self-starter, valid and infringed. *Westinghouse Electric & Mfg. Co.* v. *Simms Magneto Co.*, 286 Fed. Rep., 558.

(U. S. C. C. A. N. J.) Foster patent, 1,081,731, for electric self-starter, claims 2, 5, 6, and 7, *Held* void for anticipation. *Simms Magneto Co.* v. *Westinghouse Electric & Mfg. Co.*, 286 Fed. Rep., 562.

(U. S. C. C. A. Del.) Onderdonk patent, 1,123,576, claim 16, for multiple-needle sewing-machine mechanism, *Held* not infringed. *Union Special Mach. Co.* v. *Metropolitan Sewing Mach. Corporation*, 286 Fed. Rep., 519.

(U. S. C. C. A. Calif.) Hotchner patent, 1,259,237, for illuminated sign, not infringed. *Hotchner* v. *Federal Electric Co.*, 286 Fed. Rep., 487.

(U. S. C. C. A. Calif.) Hotchner patent, 1,315,187, for illuminated sign, not infringed. *Hotchner* v. *Federal Electric Co.*, 286 Fed. Rep., 487.

(U. S. C. C. A. N. J.) Krauth reissue patent, 14,189, claims 6, 11–15, for autographic register, *Held* not infringed. *Autographic Register Co.* v. *Diesbach*, 286 Fed. Rep., 470.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 8, 1923.
[VOL. 310. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 112,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. W. JEAN COMPANY, Worthington, Ind. Filed July 18, 1918.

C.W.J. J Superior

No claim is made for the word "Superior" apart from the mark shown.

Particular description of goods.—Eggs.

Claims use since on or about June 1, 1913.

Ser. No. 129,890. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) F. H. HEADLEY, Edgbaston, Birmingham, England. Filed Mar. 18, 1920.

TANSAD

Particular description of goods.—Motor Cycles and Perambulators, Pillory-Seat Supports, and Saddles for Motor Cycles.

Claims use since April, 1915.

Ser. No. 139,353. CLASS 39. CLOTHING.) P. GOLDSMITH'S SONS, Cincinnati, Ohio. Filed Nov. 8, 1920.

GOLD SMITH

Particular description of goods.—Bat Bags, Baseball Caps, Bathing Caps, College Caps, Jersey Caps, Men's Sport Clothes, Ladies' Sport Clothes, Athletic Hose, Athletic Jerseys, Basket-Ball Pants, Bathing Pants, Football Pants, Hockey Pants, Jersey Knee Pants, Running Pants, Soccer Pants, Turner Pants; Athletic Shirts, Sweat Shirts, Baseball Shoes, Basket-Ball Shoes, Football Shoes, Gymnasium Shoes, Jumping Shoes, Running Shoes, Striping Shoes; Men's Bathing Suits, Ladies' Bathing Suits; Jersey Tights, Baseball Uniforms, and Baseball Belts and Bathing Belts.

Claims use since Oct. 1, 1901.

Ser. No. 140,073. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Filed Nov. 23, 1920.

SILVERTONE

Particular description of goods.—Sound Boxes for Phonographs.

Claims use since October, 1915.

Ser. No. 140,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLEMAN AND COMPANY LIMITED, Norwich, England. Filed Dec. 11, 1920.

WINCARNIS

Particular description of goods.—Food Preparation Containing Extract of Meat and Other Ingredients, in Liquid and Tablet Form.
Claims use since Feb. 15, 1890.

Ser. No. 141,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSHUA GEORGE SMITH, St. Paul, Minn. Filed Dec. 16, 1920.

JEWELS

Particular description of goods.—Chocolates Wrapped in Colored Metal Foil.
Claims use since on or about Jan. 1, 1920.

Ser. No. 142,044. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TETRALIN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Rubber Mats, Waterproofed Fabrics and Rubberized Fabrics, Slabs of Rubber Composition for Use in Making Shoe Soles, Waterproofed Coverings for Persons, Animals, and Vehicles.
Claims use since Dec. 12, 1906.

Ser. No. 142,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, San Francisco, Calif. Filed Jan. 12, 1921.



Particular description of goods.—Smoked Meats.
Claims use since Jan. 1, 1913.

Ser. No. 144,853. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) DECORATIVE ARTS LEAGUE, New York, N. Y. Filed Mar. 17, 1921.

DecArtS

Particular description of goods.—Art Objects—Namely, Sculpture, Medallions Depressed or in Relief, Art Work, and Reproductions Thereof.
Claims use since Dec. 17, 1920.

Ser. No. 145,403. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES VANDER KOOGH, Plainfield, N. J. Filed Mar. 29, 1921.

Vander's
OLIVTASTE

Particular description of goods.—Mayonnaise Dressing.
Claims use since Mar. 18, 1921.

Ser. No. 146,440. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON-APPLEBY COMPANY, Boston, Mass. Filed Apr. 20, 1921.



Particular description of goods.—Canned Fruits, Flavoring Extracts for Foods, Fruit Jams, Fruit Jellies, Fruit Marmalades, Fruit Pie Materials, Fruit Preserves, Fruit Relishes Spiced, Fruit Salad, Melons Spiced as Pickles, Mincemeat, Olive Oil, Olives, Pickles, Preserved Vegetables, Salad Oil, Spiced Fruits as Pickles.
Claims use since June 1, 1896.

Ser. No. 147,426. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Honolulu, Territory of Hawaii. Filed May 9, 1921.

PALM ISLAND

Particular description of goods.—Canned Pineapple.
Claims use since Feb. 15, 1921.

Ser. No. 147,649. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading Pa. Filed May 12, 1921.

Mayfair

Particular description of goods.—Ladies' Silk Underwear.
Claims use since Jan. 21, 1921.

Ser. No. 147,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOOD RIVER APPLE VINEGAR CO., also doing business as Mountain Maid Products Company, Hood River, Oreg. Filed May 20, 1921.

MOUNTAIN MAID

Particular description of goods.—Apple Vinegar, Canned Pork and Beans, Canned Soup, Canned Chile Con Carne, and Canned Mincemeat.
Claims use since 1916.

Ser. No. 148,549. (CLASS 39. CLOTHING.) CHAS. V. PARKER CO., Harrisburg, Ill. Filed June 2, 1921.



No claim is made to the words "Cover Saline County" apart from the showing made in the drawing.
Particular description of goods.—Men's, Women's, and Children's Suits, Cloaks, Overcoats, Hats, Caps; Shoes Made of Leather, Rubber, Fabric, or Any Combination Thereof; Underwear of Knitted or Textile Fabric, Dress Shirts, Negligee Shirts, and Work Shirts, Waists, and Dresses.
Claims use since July 1, 1920.

Ser. No. 148,774. (CLASS 39. CLOTHING.) TOEWEAR HOSIERY INCORPORATED, Norristown, Pa. Filed June 6, 1921.



Particular description of goods.—Hosiery.
Claims use since Apr. 21, 1921.

Ser. No. 149,772. (CLASS 39. CLOTHING.) DR. A. POSNER SHOES, INC., New York, N. Y. Filed June 28, 1921.



The middle of the flag raised by the figure and the letters "o, a, e, e" in the name are lined for red.
Particular description of goods.—Hosiery.
Claims use since about June, 1919.

Ser. No. 151,864. (CLASS 39. CLOTHING.) THE BAMBERGER REINTHAL CO., Cleveland, Ohio. Filed Aug. 17, 1921.



No claim is made to the words "Three Caps in One" apart from the mark as shown.
Particular description of goods.—Knitted Caps.
Claims use since Mar. 1, 1921.

Ser. No. 153,297. (CLASS 11. INKS AND INKING MATERIALS.) KEE LOX MANUFACTURING COMPANY, Rochester, N. Y. Filed Sept. 24, 1921.

ALL AMERICAN

Particular description of goods.—Carbon Paper.
Claims use since about Apr. 1, 1920.

Ser. No. 153,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) "CÉRÈS" DOCKS, MINOTERIE, SEMOULERIE PATES ALIMENTAIRES, Nice, France. Filed Sept. 26, 1921.



All the reading matter appearing on the drawing with the exception of the word "Ceres" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Semolinas, Rices, Alimentary Pastes, and Biscuits.
Claims use since Apr. 1, 1921.

Ser. No. 153,923. (CLASS 39. CLOTHING.) COLONY HOSIERY MILLS, New York, N. Y. Filed Oct. 10, 1921.

COLONY HOSIERY

No claim is made to the word "Hosiery" apart from the mark shown on the drawing.
Particular description of goods.—Hosiery.
Claims use since Sept. 20, 1921.

Ser. No. 154,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCCOMAS & GOODWIN, Los Angeles, Calif., assignors to Vapor Lubricant Company, Los Angeles, Calif., a Corporation of California. Filed Oct. 20, 1921.

VAPOLENE

Particular description of goods.—Fuel Intensifier and Carbon Preventive for Internal-Combustion Engines.
Claims use since June 1, 1921.

Ser. No. 154,679. (CLASS 39. CLOTHING.) CHICAGO MERCANTILE CO., Chicago, Ill. Filed Oct. 28, 1921.

Monna Vanna HAT
MICHIGAN AVE.
CHICAGO.
RUE VIVIENNE. PARIS.

No claim made to the words "Hat, Michigan Ave., Chicago, Rue Vivienne, Paris" apart from the mark shown.
Particular description of goods.—Hat Linings for Ladies' Hats.
Claims use since Oct. 1, 1921.

Ser. No. 155,662. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL A. BAUMANN, doing business as Lake Mills Milk Company, Jefferson, Wis. Filed Nov. 21, 1921.

WONDER

Particular description of goods.—Canned Evaporated Milk.
Claims use since July 5, 1921.

Ser. No. 155,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL A. BAUMANN, doing business as Lake Mills Milk Company, Jefferson, Wis. Filed Nov. 21, 1921.



Trade-mark consists of the picture of a cow with the map of Wisconsin showing as one of its spots shown in the accompanying drawing.
Particular description of goods.—Canned Evaporated Milk.
Claims use since Sept. 21, 1921.

Ser. No. 155,823. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE MAGNAVOX COMPANY. Oakland, Calif. Filed Nov. 23, 1921.

TELE-PHONOGRAPH

Particular description of goods.—Electrical Sound Amplifiers for Phonographs.
Claims use since Apr. 1, 1921.

Ser. No. 156,100. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) MITSUI BUSSAN KAISHA, LTD., Tokyo, Japan. Filed Nov. 30, 1921.



The word "Brand" is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Matches.
Claims use since Aug. 4, 1921.

Ser. No. 156,101. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) MITSUI BUSSAN KAISHA, LTD., Toyko, Japan. Filed Nov. 30, 1921.

FREEDOM

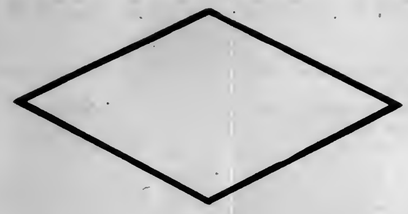
Particular description of goods.—Matches.
Claims use since Aug. 4, 1921.

Ser. No. 156,653. (CLASS 39. CLOTHING.) THE MALLORY HAT COMPANY, Danbury, Conn. Filed Dec. 13, 1921.

BRAEBURN

Particular description of goods.—Hats for Men, Women, and Children.
Claims use since October, 1921.

Ser. No. 157,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif. Filed Dec. 22, 1921.



Particular description of goods.—Almonds in the Shell and Unshelled.
Claims use since May 7, 1910.

Ser. No. 157,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif. Filed Dec. 22, 1921.

DIAMOND

Particular description of goods.—Almonds in the Shell and Unshelled.
Claims use since May 7, 1910.

Ser. No. 157,535. (CLASS 39. CLOTHING.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed Jan. 5, 1922.



No claim is made to the exclusive use of the expressions "Indianapolis," "Real Silk," and "From Mill to Millions" except in association with the other features of the mark.
Particular description of goods.—Hosiery.
Claims use since Dec. 1, 1920.

Ser. No. 157,566. (CLASS 38. PRINTS AND PUBLICATIONS.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 6, 1922.

THE GOODYEAR NEWS

The longitudinal lines in drawing are merely used as shading.

Particular description of goods.—House-Organ Publications Issued at Regular Intervals.

Claims use since on or about July 21, 1921.

Ser. No. 157,651. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) FRANK G. BOWEN, doing business as Bowen Mfg. Co., Kansas City, Mo. Filed Jan. 9, 1922.

ROTARY

Particular description of goods.—Key Cases.

Claims use since about July 6, 1921.

Ser. No. 158,725. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Feb. 1, 1922.



Particular description of goods.—Sheetings and Shirtings.

Claims use since Jan. 2, 1918.

Ser. No. 158,744. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AUTO PRODUCTS MFG. CO. INC., Buffalo, N. Y. Filed Feb. 2, 1922.

Big R Brand

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Auto Products—Namely, Auto Paints and Varnishes, Engine, Chassis, Body, and Fender Paint Enamels, and Tire Paints.

Claims use since about September, 1916.

Ser. No. 158,784. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE F. E. MYERS & BRO. CO., Ashland, Ohio. Filed Feb. 2, 1922.

LOW DOWN

Trade-mark consists of the words "Low Down."

Particular description of goods.—Pumps.

Claims use since Jan. 1, 1894.

Ser. No. 158,875. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS JEFFERSON KNIGHT, doing business as Knight Drug Co., Plant City, Fla. Filed Feb. 4, 1922.



Particular description of goods.—Sore-Head Remedy for Chickens.

Claims use since November, 1921.

Ser. No. 158,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CONFECTIONERS SUPPLY CO., New York, N. Y. Filed Feb. 4, 1922.

Unisco

The lining on the drawing is for color and indicates a blue field having an orange or gold border and orange or gold shading for the trade-mark.

Particular description of goods.—Flavors for Food Preserved and Canned, Crushed Fruits, Marshmallow Topping, Chocolate Coatings, and Cocoa.

Claims use since February, 1921.

Ser. No. 159,157. (CLASS 39. CLOTHING.) ALEXANDER LINSK & COMPANY, assignor to H. J. Maxmin, Philadelphia, Pa. Filed Feb. 10, 1922.

PETER PIPER

Particular description of goods.—Boys' Sailor Suits.

Claims use since Jan. 3, 1922.

Ser. No. 159,400. (CLASS 39. CLOTHING.) CHARLES W. LIFSCHITZ, New York, N. Y. Filed Feb. 16, 1922.



No claim is made to the words "Guaranteed Non Shrinkable Neck Band" apart from the mark shown on the drawing.

Particular description of goods.—Neckbands for Men's Shirts.

Claims use since Jan. 23, 1922.

Ser. No. 159,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOMEKECHI MASUDA, doing business as Nippon Tea Co., Cleveland, Ohio. Filed Feb. 18, 1922.



Particular description of goods.—Tea, Coffee, Rice, and Extracts for Seasoning Foods.

Claims use since January, 1913.

Ser. No. 159,552. (CLASS 39. CLOTHING.) BUNNIE HAT CO. INC., Reading, Pa. Filed Feb. 20, 1922.



Particular description of goods.—Hats for Men and Boys.

Claims use since September, 1921.

Ser. No. 159,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. ELLIOTT COFFEE COMPANY, Newville, Pa. Filed Feb. 24, 1922.

Want-Som

Particular description of goods.—Coffee.

Claims use since Feb. 15, 1922.

Ser. No. 160,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENERAL BAKING COMPANY, New York, N. Y. Filed Mar. 2, 1922.



Applicant without waiver of its common-law rights, makes no claim herein to the exclusive right to use any of the words displayed upon said trade-mark other than the words "Bond" and "General Baking Company" apart from the mark as shown.

Particular description of goods.—Bread.

Claims use since or prior to July 10, 1915.

Ser. No. 160,094. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Mar. 2, 1922.

STYLE-A

Particular description of goods.—Mattresses.

Claims use since Sept. 30, 1906.

Ser. No. 160,686. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN COPPER PRODUCTS CORPORATION, Elizabeth Port, N. J. Filed Mar. 15, 1922.

DURA-ELECTRIC WIRE



No claim is made to the words "Electric Wire" apart from the mark shown in the drawing.

Particular description of goods.—Wire Composed of Copper Specially Treated, Tempered, Alloyed with Other Metals, Either Single or Multiple Strand, Cable or Braided, Insulated or Uninsulated, or Coated with Metal or Other Substance, in All Shapes, Forms and Sizes That May be Used for Electrical Purposes and in Connection with Electrical Installations and Machinery, Including Trolley, Telephone, Telegraph Transmission, Winding, and Strand Wire, Cable, Rods, Strips, Plates, and Pieces Formed into Shapes.

Claims use since Jan. 19, 1922.

Ser. No. 160,840. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHIP-LITE PRODUCTS CO., New York, N. Y. Filed Mar. 17, 1922.

Whip-Lite

Particular description of goods.—Edible Preparation in Powdered Form Suitable for Mixture with Milk and Cream in the Process of Beating Up These Products into a Frothy Condition.

Claims use since Mar. 15, 1922.

Ser. No. 162,557. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) KORTENBACH & RAUH, Weyer, Germany. Filed Apr. 19, 1922.

K & R

Particular description of goods.—Umbrellas.

Claims use since January, 1901.

Ser. No. 162,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSOLIDATED RENDERING CO., Boston, Mass. Filed Apr. 22, 1922.

BANNER



Particular description of goods.—Oleo, Oleo Oil, and Shortening.

Claims use since 1908.

Ser. No. 163,139. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK "NORGINE" DR. VICTOR STEIN, Aussig, Czechoslovakia. Filed May 1, 1922.

PHLOGETAN

Particular description of goods.—Pharmaceutical Preparations Adapted to be Administered into Animals and Human Beings by Injection for the Treatment of Tabes, Paralysis, Complications of Gonorrhea (Metaluetic Symptoms), and All Other Diseases in Which Protein Therapie is to be Used.

Claims use since Dec. 9, 1921.

Ser. No. 163,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANTA PAULA CITRUS FRUIT ASSOCIATION, Santa Paula, Calif. Filed May 11, 1922.

EL MERITO

Particular description of goods.—Fresh Lemons.

Claims use since 1911.

Ser. No. 163,795. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT J. GEORGE, doing business as Imperial Peanut & Coffee Company, Wilkes-Barre, Pa. Filed May 13, 1922.

IMPERIAL BRAND



MADE BY
IMPERIAL PEANUT & COFFEE CO.
WILKES-BARRE, PA.

Exclusive use of the words "Brand" "Made By," and "Wilkes-Barre, Pa.," and "Trade-Mark" is hereby disclaimed.

Particular description of goods.—Roasted and Salted Peanuts.

Claims use since about Jan. 1, 1921.

Ser. No. 163,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT J. GEORGE, doing business as Imperial Peanut & Coffee Company, Wilkes-Barre, Pa. Filed May 13, 1922.

NET WEIGHT 1¼ OZS.
CHOCOLATE
"Cherry Hick"
MADE BY
IMPERIAL PEANUT AND COFFEE CO.
WILKES-BARRE, PA.

No claim is made to the exclusive use of the words "Net Weight 1¼ Ozs.," the word "Chocolate," the words "Made By," and the words "Wilkes-Barre, Pa.," shown in the drawing.

Particular description of goods.—Coffees, Candies, Chocolates, and Chocolate-Covered Confections Having Fancy Centers with or without Peanuts.

Claims use since about Nov. 1, 1921.

Ser. No. 163,982. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUBSEY & CO., LTD., Safenwil, Switzerland. Filed May 17, 1922.

DIAPERMA



No claim is made to the terms "Qual. No., Colour, Length—Yds., Width—In." apart from the mark shown on the drawing. The drawing is lined to indicate red.

Particular description of goods.—Cotton Piece Goods and Handkerchiefs.

Claims use since 1917.

Ser. No. 164,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOMINICK SWEET, doing business as The Sweet Manufacturing Company, Pittsburgh, Pa. Filed June 1, 1922.



The lining shown on the drawing represents shading and not color. The portrait is that of the applicant, Dominick Sweet.

Particular description of goods.—Medicines and Toilet Preparations—to wit, Linden Balsam, (Cough Medicine), Bromo Tablets, Castoria, Blood Tea (Liver, Kidney, and Stomach Regulator), Healthspiria (General System Tonic), Beautifying Cream, Beaver Drops (Medicine for Digestion, Nervousness, Neuralgic Pains, Etc.), Tr. Valerian, Stomach Drops, Lax Tablets, General Healing Salve, Pain Expeller (Liniment for Muscular Rheumatism, Sprains, Stiff Neck, Etc.), Headache Powders, Laxative Tablets for Children, Regulator, Comfrey Liniment Tablets for Children, Regulator, To-An-Ka (Medicine for Indigestion, Colic, and Cramps, etc.), Comfrey Liniment (Liniment for Muscular Rheumatism, Sprains, Muscular Soreness, Etc.), Corn Remedy.

Claims use since February, 1922.

Ser. No. 164,977. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. L. TAYLOR CO., Los Angeles, Calif. Filed June 3, 1922.

OLD TAYLOR

Particular description of goods.—Fresh Citrous Fruits, Fresh Deciduous Fruits, Dried or Dehydrated Fruits, Dried or Dehydrated Vegetables, Fresh Vegetables, and Melons.
Claims use since Mar. 31, 1922.

Ser. No. 165,050. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUNNING S. WILSON, M. D., French Lick, Ind. Filed June 5, 1922.

Tru-Vita
A TRUE VITAMIN

No claim is made to the phrase "A True Vitamin."
Particular description of goods.—Bread.
Claims use since Feb. 1, 1922.

Serial No. 165,159. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY M. RUGGLES, doing business as Dryol Polish Mfg. Co., Philadelphia, Pa. Filed June 7, 1922.

DRYOL

Particular description of goods.—Cleaning and Polishing Oil for Varnished, Painted, and Lacquered Surfaces.
Claims use since Feb. 1, 1921.

Ser. No. 165,517. (CLASS 39. CLOTHING.) JACOB L. ALBERTS, New York, N. Y. Filed June 15, 1922.

MCOMFORTIER MATERNO

No claim is made to the word "Comfortier" apart from the mark shown on the drawing.
Particular description of goods.—Corsets.
Claims use since May 1, 1922.

Ser. No. 165,642. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLA STEVENS, doing business as Madame Stevens, Orlando, Fla. Filed June 17, 1922.

Madame Stevens



The portrait shown in the accompanying drawing is that of applicant.
Particular description of goods.—Hair Grower.
Claims use since Jan. 2, 1922.

Ser. No. 165,753. (CLASS 39. CLOTHING.) WILLIAM LONDON, High Point, N. C. Filed June 20, 1922.



Particular description of goods.—Caps for Men, Women, and Children.
Claims use since February, 1920.

Ser. No. 166,072. (CLASS 39. CLOTHING.) JACOB B. HIRSHFELD, New York, N. Y. Filed June 26, 1922.

Kooloff

Particular description of goods.—Nainsook Underwear for Men, Women, and Children.
Claims use since 1907.

Ser. No. 166,190. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & Co., Matawan, N. J. Filed June 28, 1922.

Majestic

Particular description of goods.—Cloth Polishing Wheels.
Claims use since May 1, 1911.

Ser. No. 166,193. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. MUNNING & Co., Matawan, N. J. Filed June 28, 1922.

Monarch

Particular description of goods.—Cloth Polishing Wheels.
Claims use since May 1, 1911.

Ser. No. 166,248. (CLASS 39. CLOTHING.) THE POWELL KNITTING COMPANY, Philadelphia, Pa. Filed June 29, 1922. Under ten-year proviso.

Beacon

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1889.

Ser. No. 166,295. (CLASS 39. CLOTHING.) DAVENPORT BROTHERS, Chattanooga, Tenn. Filed June 30, 1922.

DYNAMO

Particular description of goods.—Hosiery; Knitted and Textile Fabric Underwear for Men, Women, and Children.
Claims use since January, 1922.

Ser. No. 166,424. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WAUPUN CANNING CO., Waupun, Wis. Filed July 1, 1922.

RADIO

Particular description of goods.—Canned Vegetables.
Claims use since May 20, 1922.

Ser. No. 166,426. (CLASS 39. CLOTHING.) YALE CLOAK CO. INC., New York, N. Y. Filed July 1, 1922.

BOBBED HAIR

Particular description of goods.—Children's and Ladies' Coats and Capes.
Claims use since June 22, 1922.

Ser. No. 166,542. (CLASS 39. CLOTHING.) MICHAEL P. TULLY, doing business as Atex Mills, New York, N. Y. Filed July 6, 1922.

ATEX MILLS

Trade-mark consists of the words "Atex Mills."
Particular description of goods.—Nainsook Athletic Underwear in One and Two Piece Garments for Men, Women, and Children.
Claims use since Sept. 10, 1921.

Ser. No. 166,769. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) APOLINARS DABRASKY, New York, N. Y. Filed July 12, 1922.



Apolinars Dabrasky

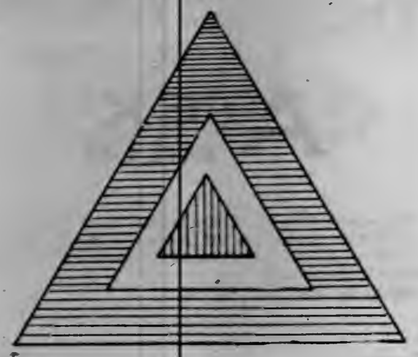
The portrait and signature shown in the drawing are the facsimiles of the picture and signature of applicant.
Particular description of goods.—Insect Powder.
Claims use since Oct. 20, 1921.

Ser. No. 166,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASSOCIATED RADIUM CHEMISTS, INC., New York, N. Y. Filed July 15, 1922.

Dentarium

Particular description of goods.—Tooth Paste, Wash, and Dentifrice.
Claims use since June, 1922.

Ser. No. 167,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. H. KILLIAN CO., Baltimore, Md. Filed July 21, 1922.



The lining of trade-mark is for the colors red and blue, respectively.
Particular description of goods.—Foodstuffs Preserved in Hermetically-Sealed Containers, as Follows. Vegetables, Hominy, Fruits, and Oysters.
Claims use since August, 1919.

Ser. No. 167,245. (CLASS 17. TOBACCO PRODUCTS.) VESS JONES, doing business as Whistle Company, New York, N. Y. Filed July 22, 1922.



Particular description of goods.—Cigarettes, Cigars, Smoking Tobacco, Chewing Tobacco, Leaf Tobacco, and Smoking Tobacco Mixtures.
Claims use since July 1, 1922.

Ser. No. 167,247. (CLASS 45. BEVERAGES, NONALCOHOLIC.) VESS JONES, doing business as Whistle Company, New York, N. Y. Filed July 22, 1922.



Particular description of goods.—Concentrated Sirups for Manufacture of Nonalcoholic Maltless Beverages, Extracts, Fruit Extracts, Beverage Extracts for Use in Connection with Carbonated Water, Concentrated Fruit Juices, Fruit Juices, and Beverage Juices.
Claims use since July 1, 1922.

Ser. No. 167,298. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLD MEADOW CREAMERY, Cleveland Ohio. Filed July 24, 1922.

Particular description of goods.—Butter, Eggs, Raw or Natural Milk and Cream, and Cheese.
Claims use since Aug. 1, 1912.

Ser. No. 167,540. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) STANDARD RING CO., INC., Boston, Mass. Filed July 28, 1922.

SR

Particular description of goods.—Finger Rings.
Claims use since Apr. 20, 1922.

Ser. No. 167,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed July 29, 1922.

SAMOSET
"Ask Those Who Eat Them"

SAMOSET

"ASK THOSE WHO EAT THEM"

Particular description of goods.—Biscuits, Crackers, and Dutch-Style Cookies.
Claims use since Mar. 1, 1914.

Ser. No. 167,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLENN TOWNSEND, doing business as Nut Lunch Company, Portland, Oreg. Filed Aug. 5, 1922.



Particular description of goods.—Peanut Butter.
Claims use since June 15, 1922.

Ser. No. 167,944. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. D. KENNY COMPANY, Baltimore, Md. Filed Aug. 8, 1922.

TIP TOP

Particular description of goods.—Coffee.
Claims use since June 15, 1922.

Ser. No. 167,957. (CLASS 2. RECEPTACLES.) SUR-DUS PRODUCTS COMPANY, Kansas City, Mo. Filed Aug. 8, 1922.

SAVE-A-HIKE

Particular description of goods.—Automobile Accessory Known as an Auxiliary Gasoline Tank.
Claims use since May 1, 1922.

Ser. No. 168,151. (CLASS 7. CORDAGE.) WM. E. HOOPER & SONS CO., Woodberry, Baltimore, Md. Filed Aug. 12, 1922.

PARKDALE

Particular description of goods.—Cotton Rope, Sash Cord, Seine Twines, Polished Twines, Braided Cotton Rope, Wrapping Cord, Braided Cord, Cabled Rope, Wrapping Twine, Cabled Cord, Twister Bands, Twisted Cotton Roping, Nautical Log Lines.
Claims use since July 6, 1922.

Ser. No. 168,237. (CLASS 39. CLOTHING.) THE POWELL KNITTING COMPANY, Philadelphia, Pa. Filed Aug. 14, 1922. Under ten-year proviso.

GRANGER

Particular description of goods.—Hosiery.
Claims use since Jan. 6, 1880.

Ser. No. 168,294. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUNTE BROTHERS, Chicago, Ill. Filed Aug. 16, 1922.

THIS AND THAT
IN
CHOCOLATES

No claim is made to "In Chocolates" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since June 25, 1922.

Ser. No. 168,305. (CLASS 37. PAPER AND STATIONERY.) HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed Aug. 16, 1922.

Mayfair Royal Linen

No claim made to the word "Linen" apart from the mark shown.

Particular description of goods.—Printing and Writing Paper.

Claims use since Sept. 11, 1917.

Ser. No. 168,371. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. C. MCLELLAN, Lodi, Calif. Filed Aug. 17, 1922.

TARGET

Particular description of goods.—Fresh Grapes.

Claims use since June 28, 1922.

Ser. No. 168,372. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM RUFUS PARVIN, doing business as W. R. Parvin Co., Ogden, Utah. Filed Aug. 17, 1922.

BLACK ACE

Particular description of goods.—Fresh Deciduous Fruits and Fresh Vegetables.

Claims use since June 13, 1922.

Ser. No. 168,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUNTE BROTHERS, Chicago, Ill. Filed Aug. 19, 1922.

Isle O' Dreams

Particular description of goods.—Candy.

Claims use since June 27, 1922.

Ser. No. 168,469. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HINCKLEY MANUFACTURING COMPANY, Providence, R. I. Filed Aug. 19, 1922.

Little Miss Muffet

Particular description of goods.—Bracelets, Finger Rings, Brooches, Bar Pins, and Buttons for Adornment of Wearing Apparel, Which are Made of or Plated with Precious Metal.

Claims use since Apr. 15, 1922.

Ser. No. 168,471. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELIC A. HOFFMAN, doing business as E. A. Hoffman Candy Co., Los Angeles, Calif. Filed Aug. 19, 1922.

Dreamland

Particular description of goods.—Candy.

Claims use since October, 1916.

Ser. No. 168,503. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. M. AND F. WALDO, New York, N. Y. Filed Aug. 19, 1922.



Particular description of goods.—Paints Ready Mixed and in Paste and Dry Form.

Claims use since Nov. 22, 1921.

Ser. No. 168,570. (CLASS 39. CLOTHING.) AVALON KNITWEAR COMPANY, Utica, N. Y. Filed Aug. 22, 1922.

SETSNUG SURF SUIT ALL WOOL

No claim is made to the exclusive use of the words "Suit All Wool" apart from the mark as shown on the drawing.

Particular description of goods.—Bathing Suits.

Claims use since Apr. 22, 1922.

Ser. No. 168,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLA WALLA VALLEY PRUNE GROWERS CO-OPERATIVE ASSOCIATION, Freewater, Oreg. Filed Aug. 25, 1922.

BLUE MOUNTAIN

Particular description of goods.—Fresh Boxed Italian Prunes.

Claims use since July 21, 1922.

Ser. No. 168,703. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN WEBBING COMPANY, Providence, R. I. Filed Aug. 26, 1922.

RUG-RAC

Particular description of goods.—Braid for Use in Making Braided Rugs.

Claims use since Aug. 1, 1922.

Ser. No. 168,736. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPINKS & MCILWAIN, also doing business as Nu-Life Medicine Company, Selma, Ala. Filed Aug. 26, 1922.

NU-LIFE

Particular description of goods.—Liver, Kidney, and Stomach Medicine.

Claims use since June 5, 1922.

Ser. No. 168,788. (CLASS 39. CLOTHING.) READ HOSIERY MILLS, McMinnville, Tenn. Filed Aug. 28, 1922.

VOLUNTEER

Particular description of goods.—Hosiery.

Claims use since May 31, 1922.

Ser. No. 168,869. (CLASS 39. CLOTHING.) BABCOCK & SHANNON CO., Albany, N. Y. Filed Aug. 30, 1922.

B & S

Particular description of goods.—Collars, Neckties, Scarfs, Cravats, Suspenders, Garters, Arm Bands, Gloves of Leather and Fabric, and Mittens.

Claims use since Jan. 1, 1884.

Ser. No. 168,870. (CLASS 39. CLOTHING.) BABCOCK & SHANNON CO., Albany, N. Y. Filed Aug. 30, 1922.

B. & S.

Particular description of goods.—Pants for Men, Youths, and Boys; Jackets and Overalls, Cloth Coats, Skin Coats, and Sweater Coats; Rubber Raincoats and Cloth Raincoats; Vests; Caps for Men, Women, and Children; Negligee Shirts and Work Shirts, Children's Waists, Underwear of Knitted and Textile Fabric, and Hosiery for Men, Women, and Children.

Claims use since Jan. 1, 1884.

Ser. No. 169,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUTCHISON THRIFT CORPORATION, New York, N. Y. Filed Sept. 5, 1922.

ENCIRCLE THE EARTH
HUTCHISON
STORES
WITH BARGAINS OF WORTH

No claim is made to the exclusive use of the words "Encircles the Earth with Bargains of Worth" apart from the mark as shown in the drawing.

Particular description of goods.—Food Products—viz, Canned Cherries.

Claims use since Aug. 16, 1922.

Ser. No. 169,125. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DE BRUYN LIMITED, London, England. Filed Sept. 6, 1922.

FRYTOL

Particular description of goods.—Edible Oils.
Claims use since February, 1922.

Ser. No. 169,235. (CLASS 39. CLOTHING.) LOUIS BERNSTEIN, doing business as Princess Dress House, New York, N. Y. Filed Sept. 9, 1922.

Modeform

Particular description of goods.—Ladies' Dresses of Silk, Cotton, and Wool and Combinations Thereof.
Claims use since Mar. 15, 1922.

Ser. No. 169,243. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii. Filed Sept. 9, 1922.

ROYAL HAWAIIAN

Particular description of goods.—Canned Pineapple.
Claims use since July 15, 1904.

Ser. No. 169,363. (CLASS 39. CLOTHING.) KINGLY SHIRT CO., Chicago, Ill. Filed Sept. 12, 1922.



No claim being made to the exclusive right to use the words "Garment for Gentlemen."
Particular description of goods.—Men's and Boys' Dress, Negligee, and Work Shirts.
Claims use since 1908.

Ser. No. 169,439. (CLASS 39. CLOTHING.) FELDBAUM & SPIEGEL, INC., New York, N. Y. Filed Sept. 14, 1922.

MARMINK

The background of the trade-mark is woven in black and the lettering of the word "Marmink" being woven in yellow.
Particular description of goods.—Fur Coats, Capes, and Stoles and Fur Garments.
Claims use since Jan. 1, 1922.

Ser. No. 169,516. (CLASS 17. TOBACCO PRODUCTS.) MAX STERN, Charleroi, Pa. Filed Sept. 15, 1922.

SILVER CAP

Particular description of goods.—Cigars.
Claims use since Apr. 15, 1922.

Ser. No. 169,542. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. EDWARD GHEENS, Louisville, Ky. Filed Sept. 16, 1922.



Particular description of goods.—Candy.
Claims use since June, 1900.

Ser. No. 169,590. (CLASS 39. CLOTHING.) GREENBAUM, WEIL & MICHELS, San Francisco, Calif. Filed Sept. 18, 1922.

CHECKER BOARD

Trade-mark consists of the words "Checker Board."
Particular description of goods.—Hosiery.
Claims use since Mar. 1, 1919.

Ser. No. 169,618. (CLASS 39. CLOTHING.) CALIFORNIA UNDERWEAR AND HOSIERY MILLS, also doing business as California Underwear Mills, Los Angeles, Calif. Filed Sept. 18, 1922.

Fit-So

Particular description of goods.—Ladies' Knit Underwear.
Claims use since Apr. 1, 1916.

Ser. No. 169,717. (CLASS 39. CLOTHING.) LANCHESTER SHIRT CO. INC., New York, N. Y. Filed Sept. 20, 1922.

TRADE "Dixie" MARK

No claim is made to the words "Trade Mark" apart from the mark shown on the drawing.
Particular description of goods.—Men's and Boys' Dress Shirts.
Claims use since Apr. 1, 1922.

Ser. No. 169,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CYRUS W. GOSNEY, Oakland, Calif. Filed Sept. 21, 1922.



The representation of a pie is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Pies, Cakes, Bread, and Pastries.
Claims use since June 2, 1922.

Ser. No. 169,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. M. NEWHALL & Co., San Francisco, Calif. Filed Sept. 21, 1922.

HOMELAND

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since July 26, 1922.

Ser. No. 169,803. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE DURA COMPANY, Toledo, Ohio. Filed Sept. 22, 1922.

DURA

Particular description of goods.—Window Regulators.
Claims use since 1920.

Ser. No. 169,924. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PATCHOGUE-PLYMOUTH MILLS CORPORATION, New York, N. Y. Filed Sept. 25, 1922.

Duofilet

Trade-mark consists of the word "Duofilet."
Particular description of goods.—Nets, Draperies, and Curtains Made of Cotton.
Claims use since Sept. 1, 1922.

Ser. No. 169,948. (CLASS 39. CLOTHING.) THE CINCINNATI CLOAK & SUIT COMPANY, Cincinnati, Ohio. Filed Sept. 26, 1922.



Particular description of goods.—Ladies' and Misses' Suits; Ladies', Misses', Children's, Intermediates', and Junior Coats; Ladies' and Misses' Dresses; Furs—Namely, Neck Pieces, Scarfs, Muffs, and Coats.
Claims use since 1901.

Ser. No. 169,957. (CLASS 39. CLOTHING.) R. KIRSHBAUM & SON, INC., Indianapolis, Ind. Filed Sept. 26, 1922.



Without waiving any common-law rights trade-mark claim is not herein made to the word "Stouts" per se apart from the mark shown.
Particular description of goods.—Ladies' Dresses, Coats, and Blouses.
Claims use since about Sept. 16, 1922.

Ser. No. 170,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE GOTTMANN & SONS, doing business as "Gottmann's," Chicago, Ill. Filed Sept. 28, 1922.

ROL-M-UP

Particular description of goods.—Chocolate Candy Bar.
Claims use since Aug. 1, 1922.

Ser. No. 170,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Sept. 28, 1922.

Master

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1912.

Ser. No. 170,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINA CHEESE CO., Burgdorf, Switzerland. Filed Sept. 30, 1922.



The words "Fromage gras surchoix, Sans croute, Marque déposée, Berthoud, Suisse, and Marque" are disclaimed apart from the mark shown in the accompanying drawing.
Particular description of goods.—Swiss Cheese.
Claims use since Mar. 23, 1920.

Ser. No. 170,112. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINA CHEESE CO., Burgdorf, Switzerland. Filed Sept. 30, 1922.



The words "Marque déposée" and "Marque" are disclaimed apart from the mark shown in the accompanying drawing.
Particular description of goods.—Swiss Cheese.
Claims use since Mar. 23, 1920.

Ser. No. 170,114. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINA CHEESE CO., Burgdorf, Switzerland. Filed Sept. 30, 1922.

CHALET
MARQUE DÉPOSÉE

The words "Marque deposee" are disclaimed apart from the mark shown in the accompanying drawing.
Particular description of goods.—Swiss Cheese.
Claims use since Nov. 4, 1919.

Ser. No. 170,239. (CLASS 32. FURNITURE AND UPHOLSTERY.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Oct. 3, 1922.

Pyralin

Particular description of goods.—Hand Mirrors (Except Precious Metal), Picture Frames.
Claims use since Apr. 4, 1922.

Ser. No. 170,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT E. BALLANCE, doing business as Ballance and Company, Greensboro, N. C. Filed Oct. 4, 1922.

MOON SHINE

Particular description of goods.—Candy Kisses.
Claims use since January, 1907.

Ser. No. 170,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CASTLE COMPANY, Lyons, N. Y. Filed Oct. 4, 1922.

CASTLE

Particular description of goods.—Canned Sauerkraut.
Claims use since 1912.

Ser. No. 170,308. (CLASS 39. CLOTHING.) REAL-SILK FABRICS CORPORATION, Brooklyn, N. Y. Filed Oct. 4, 1922.

SOMORA

Particular description of goods.—Hosiery and Knitted Underwear in One and Two Piece Garments for Men, Women, and Children.
Claims use since Sept. 12, 1922.

Ser. No. 170,320. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed Oct. 4, 1922.

SHASTA

Particular description of goods.—Men's Dress and Negligee Shirts, Pyjamas, and Underwear of Textile Fabric.
Claims use since Sept. 20, 1922.

Ser. No. 170,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARROW-TAYLOR BUTTER CO., Kansas City, Mo. Filed Oct. 5, 1922.

Aunt Sally's

Particular description of goods.—Creamery Butter.
Claims use since July 24, 1922.

Ser. No. 170,375. (CLASS 39. CLOTHING.) SAMUEL A. GOLDBERG, Chicago, Ill. Filed Oct. 6, 1922.

GOLD-MAID

Particular description of goods.—Hosiery.
Claims use since Sept. 19, 1922.

Ser. No. 170,399. (CLASS 39. CLOTHING.) JOS. A. MORRIS & CO., INC., New York, N. Y. Filed Oct. 6, 1922.



Particular description of goods.—Ladies' and Misses' Dresses.
Claims use since September, 1917.

Ser. No. 170,414. (CLASS 12. CONSTRUCTION MATERIALS.) THE VITREFRAX COMPANY INC., Los Angeles, Calif. Filed Oct. 6, 1922.

VITREFRAX

Particular description of goods.—Refractory Lining for Forges, Smelters, Heating Furnaces, Malleable-Iron Furnaces, Open-Hearth Furnaces, Electric Furnaces, Brick

and Ceramic Kilns, Lime and Cement Kilns, Welding Forges, Glass Tanks, Boiler Settings, and the Like; Refractory Mastic Fire Walls, Refractory Cements, Refractory Furnace Bottom Grains, and Mixed Sagger Batches.

Claims use since about Jan. 19, 1921.

Ser. No. 170,415. (CLASS 12. CONSTRUCTION MATERIALS.) THE VITREFRAX COMPANY INC., Los Angeles, Calif. Filed Oct. 6, 1922.

DIAMEL

Particular description of goods.—Refractory Lining for Forges, Smelters, Heating Furnaces, Malleable-Iron Furnaces, Open-Hearth Furnaces, Electric Furnaces, Brick and Ceramic Kilns, Welding Forges, Glass Tanks, Boiler Settings, and the Like; Refractory Bricks in Various Shapes and Forms, Refractory Cements, Refractory Furnace Bottom Grains, and Mixed Sagger Batches.

Claims use since about July 5, 1922.

Ser. No. 170,417. (CLASS 12. CONSTRUCTION MATERIALS.) THE VITREFRAX COMPANY, Los Angeles, Calif. Filed Oct. 6, 1922.

Argon

Particular description of goods.—Refractory Lining for Forges, Smelters, Heating Furnaces, Malleable-Iron Furnaces, Open-Hearth Furnaces, Electric Furnaces, Brick and Ceramic Kilns, Lime and Cement Kilns, Welding Forges, Glass Tanks, Boiler Settings, and the Like; Refractory Bricks in Various Shapes and Forms, Refractory Cements, Refractory Furnace Bottom Grains, Mixed Sagger Batches, Refractory Plastic Batches, and Refractory Mastic Fire Walls.

Claims use since about Mar. 30, 1921.

Ser. No. 170,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Oct. 11, 1922.

WEDDING CAKE

Particular description of goods.—Candy.

Claims use since 1903.

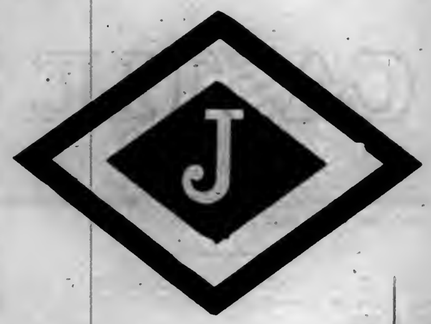
Ser. No. 170,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. F. GOODSON & COMPANY, doing business as J. F. G. Coffee Co., Morristown, Tenn. Filed Oct. 11, 1922.

HORSE SHOE BEND

Particular description of goods.—Coffee.

Claims use since March, 1922.

Ser. No. 170,617. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCHIE H. BECHTOL, doing business as Southern Confection Co., Memphis, Tenn. Filed Oct. 12, 1922.



Particular description of goods.—Confections in the Nature of Candies.

Claims use since Nov. 17, 1916.

Ser. No. 170,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURDETTE K. MARVIN, doing business as Marvin Date Company, Riverside, Calif. Filed Oct. 13, 1922.

BERBER

Particular description of goods.—Dates.

Claims use since Sept. 8, 1922.

Ser. No. 170,721. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIS M. LAWRENCE, Brookline, Mass., and Bartow, Fla. Filed Oct. 14, 1922.

101

Particular description of goods.—Wrenches.

Claims use since April, 1921.

Ser. No. 170,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER ROSSI & SONS INC., Braidwood, Ill. Filed Oct. 14, 1922.

WHEATLETS

Particular description of goods.—Macaroni.

Claims use since Aug. 12, 1922.

Ser. No. 170,736. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. H. WETTERAU & SONS GROCER COMPANY, St. Louis, Mo. Filed Oct. 14, 1922.

HI-POINTE

Particular description of goods.—Fruit Preserves, Jams, Jelly, Apple Butter, Sweet Pickles, Sour Pickles, Sour Relish, Sweet Relish, Prepared Horse-Radish, Catchup, Prepared Mustard, Tiny Green Lima Beans, Extra-Small Stringless Beans, Fancy Tiny Peas, Rosebud Beets, Pork and Beans, Pumpkin, Spinach, Sweet Potatoes, Salmon, Fruit Salad, Yellow Cling Peaches, Sliced Pineapple, Royal Ann Cherries, Pears, Apricots, Blackberries, Apples, Apple Sauce, Gage Plums, Asparagus, Sauerkraut, Tomatoes, Shoe-Peg Corn, Fancy Maine Corn, Coffee, All of Which Are Canned or Packed in Glass Jars, Bottles, and the Like.

Claims use since May 10, 1922.

Ser. No. 170,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCEBURG ROLLER MILLS Co., Lawrenceburg, Ind. Filed Oct. 16, 1922.



No claim is made to the exclusive use of the representation of the hands holding the plate of biscuit apart from the mark in its entirety shown.

Particular description of goods.—Self-Rising Flour.

Claims use since Feb. 20, 1922.

Ser. No. 170,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCEBURG ROLLER MILLS Co., Lawrenceburg, Ind. Filed Oct. 16, 1922.



Particular description of goods.—Self-Rising Flour.

Claims use since Apr. 15, 1922.

Ser. No. 170,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL SEAL FOOD PRODUCTS CO., Chicago, Ill. Filed Oct. 16, 1922.



Particular description of goods.—Dates, Salted Nuts, and Preserved Figs.

Claims use since Feb. 1, 1922.

Ser. No. 170,926. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHAMPION APPLIANCE MANUFACTURING COMPANY, INC., Yonkers, N. Y. Filed Oct. 19, 1922.



The words "Service Unit" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Portable Electric Motors.

Claims use since July 11, 1922.

Ser. No. 171,073. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FORST LABORATORIES, Cincinnati, Ohio. Filed Oct. 23, 1922.

RUBBINE

Particular description of goods.—Rubbing and Massaging Alcohol.
Claims use since on or about Oct. 3, 1922.

Ser. No. 171,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REEL PRODUCTS COMPANY, Cedar Rapids, Iowa. Filed Oct. 23, 1922.



Exclusive use of the words "Purity," "Excellence," "Malt," "Hops," "Yeast Cakes," and "Trade Mark" is disclaimed.
Particular description of goods.—Yeast Cakes for Culinary Purposes.
Claims use since June 15, 1922.

Ser. No. 171,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUY M. FIELD, High Point, N. C. Filed Oct. 25, 1922.

MAYONN-AID

Particular description of goods.—Powder to be Used in the Preparation of Salad Dressing.
Claims use since Oct. 10, 1922.

Ser. No. 171,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Oct. 27, 1922.



The figure of the unicorn shown on the drawing is in gold against a background of blue, inclosed within a border of red.
Particular description of goods.—Canned Apricots, Grapes, Plums, Peaches, Pineapple, Cherries, Pears, Corn, Peas, and Asparagus.
Claims use since Jan. 1, 1902.

Ser. No. 171,340. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STAR MOTORS INCORPORATED, New York, N. Y. Filed Oct. 28, 1922.



Trade-mark consists of the representation of a white enamel star outlined in silver on a black enameled field surrounded by a white enamel ring bordered with silver rings.
Particular description of goods.—Automobiles and Constructive Parts Thereof.
Claims use since May, 1922.

Ser. No. 171,400. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CONE AND PRETZEL COMPANY, doing business as Continental Packing Corporation, Philadelphia, Pa. Filed Oct. 31, 1922.

PANTRY



Particular description of goods.—Canned Peaches, Canned Lima Beans, Canned Beans, Canned Tomatoes, and Canned Sweet Potatoes.
Claims use since Aug. 26, 1922.

Ser. No. 171,467. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POTTER-WRIGHTINGTON, INC., Boston, Mass. Filed Nov. 1, 1922.

Re-Knu

Health Bran

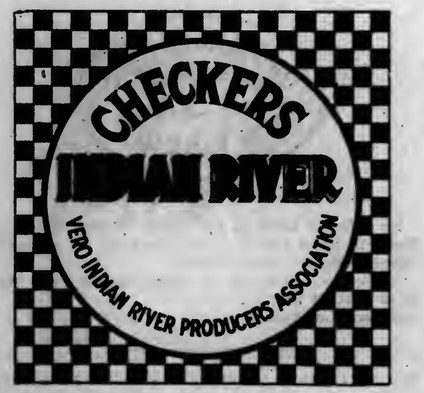
No claim is made to the words "Health Bran" apart from the mark shown.
Particular description of goods.—Bran for Use in Making Bakery Products.
Claims use since September, 1922.

Ser. No. 171,468. (CLASS 39. CLOTHING.) MAX RAPPAPORT, Los Angeles, Calif. Filed Nov. 1, 1922.



No claim is made to the exclusive use of the words "Hats" and "Caps" and "For Every Man's Head" apart from the mark shown on the drawing.
Particular description of goods.—Hats and Caps for Men and Boys.
Claims use since June 10, 1922.

Ser. No. 171,478. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERO INDIAN RIVER PRODUCERS ASSOCIATION, Vero, Fla. Filed Nov. 1, 1922.



No claim is made to the exclusive use of the term "Indian River" apart from the mark as shown in the drawing. The lining in the drawing merely represents shading.
Particular description of goods.—Fresh Citrous Fruits
Claims use since Nov. 22, 1921.

Ser. No. 171,503. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IRVING B. LEVY, New York, N. Y. Filed Nov. 2, 1922.

TRU
FLYTE

Particular description of goods.—Golf Balls.
Claims use since Sept. 1, 1922.

Ser. No. 171,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LAIRD MANUFACTURING CO. INC., Richmond, Va. Filed Nov. 4, 1922.

RICHMOND MAID



Particular description of goods.—Coffee.
Claims use since Sept. 1, 1921.

Ser. No. 171,637. (CLASS 39. CLOTHING.) L. E. GROSSMAN, INC., New York, N. Y. Filed Nov. 6, 1922.



No claim is made to the words "Health Shoe" apart from the mark shown on the drawing, no common-law rights, however, being waived.

Particular description of goods.—Shoes Made Wholly or in Part of Leather.

Claims use since 1918.

Ser. No. 171,653. (CLASS 37. PAPER AND STATIONERY.) THE PEERLESS PAPER COMPANY, Dayton, Ohio. Filed Nov. 6, 1922.

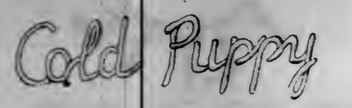


The mark consists of the word "Stillwater."

Particular description of goods.—Bond Paper.

Claims use since about April, 1921.

Ser. No. 171,676. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST J. H. WESTPHAL, Brooklyn, N. Y. Filed Nov. 6, 1922.



Trade-mark consists of the arbitrary words "Cold Puppy" shown in the accompanying drawing.

Particular description of goods.—Product Consisting of an Edible Container with Ice Cream or an Analogous Filler Within the Container.

Claims use since Sept. 27, 1922.

Ser. No. 171,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. A. HUSTON & CO., Portland, Me. Filed Nov. 7, 1922.



Particular description of goods.—Bakery Products, Specifically Cookies and Confectionery.

Claims use since July 29, 1921.

Ser. No. 171,713. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANLEY HILLER, INC., San Jose, Calif. Filed Nov. 7, 1922.



No claim is made to the use of the words "Brand," "Waste Products Engineers," or "San Jose, Cal." apart from the trade-mark as shown by the drawing, applicant specifically reserving his common-law rights thereto.

Particular description of goods.—Apparatus for Revivifying Kieselguhr, Apparatus for Producing Charcoal, Fish-Meal Apparatus, and Sirup Clarifiers.

Claims use since Sept. 1, 1921.

Ser. No. 171,783. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ANSTED & BURK CO., Springfield, Ohio. Filed Nov. 10, 1922.



Particular description of goods.—Poultry Feed.

Claims use since Sept. 19, 1922.

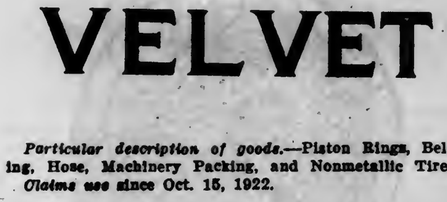
Ser. No. 171,794. (CLASS 39. CLOTHING.) PHILIP FERNANDEZ, doing business as Standard Export Company, Boston, Mass. Filed Nov. 10, 1922.



Particular description of goods.—Shoe Findings—Namely, Fiber Counters, Soles, Rubber Heels, Box Toes of Cloth or Leather, Women's Wooden Heels, Cut Shoe Linings, Cut Shoe Webs, and Nonmetallic Shanks.

Claims use since June, 1922.

Ser. No. 171,824. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) VELVET PISTON RING CO., Detroit, Mich. Filed Nov. 10, 1922.



Particular description of goods.—Piston Rings, Belting, Hose, Machinery Packing, and Nonmetallic Tires.

Claims use since Oct. 15, 1922.

Ser. No. 171,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. A. BOLINGER, doing business as Bolinger Orchards, Methow, Wash. Filed Nov. 13, 1922.



Particular description of goods.—Fresh Apples.

Claims use since Aug. 15, 1922.

Ser. No. 171,926. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SAMUEL J. KANE, doing business as Protect-O-Floor Leather Mat Co., San Francisco, Calif. Filed Nov. 13, 1922.



No claim is made to the representation of a flexible leather mat apart from the mark as shown.

Particular description of goods.—Leather Flexible Door Mat.

Claims use since Sept. 15, 1922.

Ser. No. 171,974. (CLASS 39. CLOTHING.) WHITMAN & KEITH CO., Brockton, Mass. Filed Nov. 13, 1922.



The lining on the drawing is for shading purposes only. The portrait is fanciful.

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.

Claims use since 1921.

Ser. No. 172,002. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LOCOMOBILE COMPANY OF AMERICA, INCORPORATED, New York, N. Y. Filed Nov. 14, 1922.



Particular description of goods.—Automobiles and Constructive Parts Thereof.

Claims use since Oct. 21, 1922.

Ser. No. 172,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLIFFORD W. TREAT, doing business as George W. Smith Co., Bennington, Vt. Filed Nov. 14, 1922.



Particular description of goods.—Maple Sirup.

Claims use since June 1, 1922.

Ser. No. 172,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK DANNA, doing business as Capitol Coffee Company, Baton Rouge, La. Filed Nov. 17, 1922.

ROYAL GOLD

The shading on the drawing represents gold.
Particular description of goods.—Coffee.
Claims use since September, 1917.

Ser. No. 172,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GILBERT J. EASTON, Newark, N. J. Filed Nov. 17, 1922.

VEGONNAISE

Particular description of goods.—Vegetable Relishes.
Claims use since Oct. 6, 1922.

Ser. No. 172,173. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed Nov. 17, 1922.



Particular description of goods.—Wheat Flour.
Claims use since Oct. 10, 1922.

Ser. No. 172,208. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CALHOUN, ROBBINS & Co., New York, N. Y. Filed Nov. 18, 1922.



Particular description of goods.—Buckles, Thimbles, Belt Clasps, Bracelets, Necklaces, Lavallières, Lorgnette Chains, Watch Guards, Brooches, Eardrops, Watch Fobs, Metal Hairpins, Jeweled Combs, Jeweled Hair Ornaments, Jeweled and Pearl Collar Supporters, Link Cuff Buttons, Collar Buttons, Pillowcase Studs, Necklace Snaps, Veil-Pin Sets, Hatpins, Stick Pins, Scarf Pins, Cuff Pins, Beauty Pins, Collar Pins, Veil Pins, Sash Pins, Pearl Lace Pins, Mesh Purses, Vanity Cases, Purse Tops and Frames, Skirt Supporters, Sterling-Silver Thimbles, Gold and Silver Beads, Jeweled Buttons, Buttons Made of or Coated with Precious Metals, All of the Above Articles Being Wholly or Partly Made of or Coated with Precious Metal.
Claims use since July 1, 1890.

Ser. No. 172,235. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER-MCMILLEN CO., Watertown, S. Dak. Filed Nov. 18, 1922.



Particular description of goods.—Candy Bar.
Claims use since Sept. 16, 1920.

Ser. No. 172,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTTO P. CATSIGIANIS, doing business as Blue Hill Candy Company, St. Louis, Mo. Filed Nov. 20, 1922.



Particular description of goods.—Chocolate-Coated Nuts and Candy.
Claims use since July 5, 1922.

Ser. No. 172,266. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DINE K. DOUCLEFF, Peoria, Ill. Filed Nov. 20, 1922.

MI-LUNCH

Particular description of goods.—Canned Prepared Caviar.
Claims use since Dec. 1, 1921.

Ser. No. 172,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WONDER MEDICINE COMPANY, Atlanta, Ga. Filed Nov. 20, 1922.

Womedco

Particular description of goods.—Medicinal Tonic.
Claims use since Aug. 23, 1922.

Ser. No. 172,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PETER COMPANY, Houston, Tex. Filed Nov. 23, 1922.



Particular description of goods.—Eggs, Butter, Live and Dressed Poultry, and Pecans, Shelled and Unshelled.
Claims use since Nov. 15, 1922.

Ser. No. 172,442. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEYER F. RUFFNER, doing business as R. & R. Manufacturing Company, Okmulgee, Okla. Filed Nov. 23, 1922.

POTATO WAFFLE

Particular description of goods.—Foods, and Namely a Cooked Potato Resembling Potato Chips.
Claims use since on or about June 21, 1921.

Ser. No. 172,457. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH J. WHITE, INC., New Lisbon, N. J. Filed Nov. 23, 1922.

WHITESBOG

Particular description of goods.—Fresh Blueberries.
Claims use since June 20, 1922.

Ser. No. 172,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELEN LEHOCZKY, Cleveland, Ohio. Filed Nov. 24, 1922.

THE CRAZY-NUT SANDWICH

No claim is made to the word "Sandwich" apart from the mark shown in the drawing.
Particular description of goods.—Confection Comprising Wafers with a Nut Candy Therebetween.
Claims use since about Nov. 1, 1922.

Ser. No. 172,551. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GUSTAV M. OSTERBERG, doing business as G. M. Osterberg & Sons, New York, N. Y. Filed Nov. 25, 1922.

O. K.

Particular description of goods.—Elevator-Rail Oilers.
Claims use since October, 1915.

Ser. No. 172,575. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Nov. 27, 1922.

CERO-VITA

Particular description of goods.—Breakfast Cereals.
Claims use since Oct. 12, 1914.

Ser. No. 172,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Nov. 27, 1922.

VITA-WHEAT

No claim is made to the word "Wheat" apart from the mark shown.
Particular description of goods.—Breakfast Cereals.
Claims use since Oct. 1, 1922.

Ser. No. 172,584. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo. Filed Nov. 27, 1922.

MAGIC

Particular description of goods.—Rubber Jar Rings.
Claims use since on or about Nov. 1, 1921.

Ser. No. 172,620. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TITZE AND FORTKAMP COMPANY, South Milwaukee, Wis. Filed Nov. 27, 1922.



Particular description of goods.—Fruit Preserves, Jellies, and Other Canned Fruit Products.
Claims use since Mar. 15, 1921.

Ser. No. 172,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN PICKLE & CANNING COMPANY, Hattiesburg, Miss. Filed Dec. 1, 1922.

DELTA

Particular description of goods.—Pickles.
Claims use since Aug. 1, 1922.

Ser. No. 172,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD & BALLARD CO., INCORPORATED, Louisville, Ky. Filed Dec. 1, 1922.



No claim is made to the words "Self Rising Flour" apart from their use in the mark as shown in the specimens and drawing. The vertical and horizontal lines in said drawing indicate red and blue colors, respectively.
Particular description of goods.—Wheat Flour—Namely, Self-Rising Flour.
Claims use since about Nov. 7, 1922.

Ser. No. 172,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YORK PRETZEL BAKERY, York, Pa. Filed Dec. 1, 1922.



Particular description of goods.—Baking Products—Namely, Pretzels.
Claims use since Nov. 6, 1922.

Ser. No. 172,791. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YORK PRETZEL BAKERY, York, Pa. Filed Dec. 1, 1922.

SLIM JIM

Particular description of goods.—Baking Products—Namely, Pretzels.
Claims use since Nov. 6, 1922.

Ser. No. 172,822. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR A. ANDERSON, doing business as Arthur Anderson Fish Co., Astoria, Oreg. Filed Dec. 2, 1922.

BLUE SEAL

Particular description of goods.—Canned Salmon.
Claims use since Sept. 26, 1919.

Ser. No. 172,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WABASHA ROLLER MILL COMPANY, Wabasha, Minn. Filed Dec. 4, 1922.

JO

Particular description of goods.—Wheat Flour.
Claims use since 1885.

Ser. No. 173,059. (CLASS 33. GLASSWARE.) THE UNITED STATES LENS COMPANY, Wheeling, W. Va. Filed Dec. 7, 1922.

VISO

Particular description of goods.—Automobile Headlight Cover Glasses.
Claims use since Nov. 15, 1922.

Ser. No. 173,068. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRANK R. ASHLEY, Denver, Colo. Filed Dec. 8, 1922.

EZ-UP

Particular description of goods.—Awnings, Awning Frames, Awning Covers, and Parts Thereof.
Claims use since Sept. 1, 1922.

Ser. No. 173,142. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed Dec. 9, 1922.

GLOIRE DE PARIS

Particular description of goods.—Soaps, Soap Pastes, and Soap Powders.
Claims use since February, 1905.

Ser. No. 173,161. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) APPLE GUM COMPANY, INC., New York, N. Y. Filed Dec. 11, 1922.



Without relinquishing any of our common-law rights we disclaim the word "Gum" except in the connection used.
Particular description of goods.—Chewing Gum.
Claims use since July 17, 1922.

Ser. No. 173,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL B. FIELD, doing business as Tom's Cove Salt Sea Oyster Co., Chincoteague Island, Va. Filed Dec. 11, 1922.



The words "Tom's Cove Oyster, Guaranteed from All Impurities, Tom's Cove Salt Sea Oyster Co., Chincoteague, Va.," together with the representation of an oyster, are disclaimed apart from the mark as shown.
Particular description of goods.—Oysters in the Canned and Natural State.
Claims use since Nov. 1, 1920.

Ser. No. 173,287. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LAMKE & STEMME, INC., New York, N. Y. Filed Dec. 12, 1922.



The trade-mark illustrated by the accompanying drawing shows the inscription "Lamke & Stemme, Inc. New York" displayed in the annular space formed by two concentric circles. The inner circle surrounds the letter "L," printed in a single thick line and overlapping the letter "S," printed in double thinner lines, monogram fashion. The outer circle is inscribed into and edgewise overlaps the figure of a vertical rhomboid, and in the open top panel of said rhomboid is shown the outline of a laurel leaf, while in the lower panel is placed the representation of an upright scepter, around which a snake coils in the form of an S. Both figurative panel displays, laurel leaf, and scepter with snake are meant to be symbolic of the initials of the firm "L" and "S." The lower panel design, known as an esculapian staff, is also symbolic of the firm's trade in medical and surgical articles. No special claim is made to the words "New York" apart from the mark shown in this drawing.

Particular description of goods.—Surgical Rubber Goods and Druggists' Sundries.

Claims use since July, 1921.

Ser. No. 173,347. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE ROCKSTEDE FURNITURE CO., Evansville, Ind. Filed Dec. 15, 1922.

Marie Louise

Particular description of goods.—Dining-Room Furniture.

Claims use since Nov. 1, 1922.

Ser. No. 173,391. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Chicago, Ill. Filed Dec. 16, 1922.

Lady Lite

The lining in the drawing indicates the color red.

Particular description of goods.—Self-Rising Flour.

Claims use since Nov. 8, 1922.

Ser. No. 173,413. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ROBERT FLETCHER & SON LIMITED, Stoneclough, Manchester, England. Filed Dec. 16, 1922.



Without waiving any rights at common law applicant disclaims any right to the exclusive use of the words "Mill" or "Made in England" apart from the mark as shown.

Particular description of goods.—Paper Treated, Cut to Size, and Ready for Use in Making Cigarettes.

Claims use since on or about June 6, 1922.

Ser. No. 173,414. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ROBERT FLETCHER & SON LIMITED, Stoneclough, Manchester, England. Filed Dec. 16, 1922.



Without waiving any rights at common law applicant disclaims any right to the exclusive use of the words "Mill" and "Made in England" apart from the mark as shown.

Particular description of goods.—Paper Treated, Cut to Size, and Ready for Use in Making Cigarettes.

Claims use since on or about May 10, 1922.

Ser. No. 173,415. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ROBERT FLETCHER & SON LIMITED, Stoneclough, Manchester, England. Filed Dec. 16, 1922.



Without waiving any rights at common law applicant disclaims any right to the exclusive use of the following wording apart from the mark as shown: "Mill Number, Paper Label, Cigarette Paper."

Particular description of goods.—Paper Treated, Cut to Size, and Ready for Use in Making Cigarettes.

Claims use since on or about Mar. 25, 1916.

Ser. No. 173,455. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) U. S. LEATHER GOODS COMPANY, Chicago, Ill. Filed Dec. 16, 1922.



No claim is made to the word "Brand" apart from the mark as shown.

Particular description of goods.—Pocketbooks, Bill Folds, Cardcases, Pass Cases, Wallets, Key Cases, and Coin Purses.

Claims use since about March, 1917.

Ser. No. 173,456. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Dec. 16, 1922.

VITALAIT

Particular description of goods.—Bread.

Claims use since Dec. 1, 1922.

Ser. No. 173,516. (CLASS 38. PRINTS AND PUBLICATIONS.) LITTLE, BROWN & COMPANY, Boston, Mass. Filed Dec. 18, 1922.

KRITTERKRAFT BOOKS

No claim made to the word "Books" apart from the mark as shown in the drawing.

Particular description of goods.—Series of Books.

Claims use since Sept. 1, 1922.

Ser. No. 173,575. (CLASS 39. CLOTHING.) MELVILLE SHOE CORPORATION, New York, N. Y. Filed Dec. 19, 1922.

STRIDEAWAY

Particular description of goods.—Shoes of Combinations of Leather and Rubber and of Fabric and Rubber.

Claims use since Dec. 1, 1922.

Ser. No. 173,587. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARLINGTON CHEMICAL COMPANY, Yonkers, N. Y. Filed Dec. 20, 1922.

Arlco

Particular description of goods.—Proteins, Pollens, Urease, Nucleoprotein Pituitary Tablets, Nucleoprotein Ovarian Tablets, Nucleoprotein Adrenal Tablets, Nucleoprotein Thyroid Tablets, Pituitary Extract, Ovarian Extract, Adrenal Extract, Thyroid Extract, Bacterial Vaccine, Animal Epidermal Extract (Proteins), Food Extract (Proteins), Pollen Extract, Yeast Capsules, and Jack Bean Meal.

Claims use since October, 1918.

Ser. No. 173,606. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GRACE PHELPS MCKENNA, Washington, D. C. Filed Dec. 20, 1922.

DAY-BY-DAY

Particular description of goods.—Necklaces, Bracelets, Brooches, Finger Rings, and Vanity Cases Made of or Plated with Precious Metal.
Claims use since Dec. 1, 1922.

Ser. No. 173,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUISE WODICSKA, doing business as Ex Pilo Manufacturing Company, New York, N. Y. Filed Dec. 20, 1922.

Ex Pilo

Particular description of goods.—Preparations for the Treatment of Piles.
Claims use since Sept. 15, 1922.

Ser. No. 173,629. (CLASS 39. CLOTHING.) THE ELI BOOT SHOP CO., New Haven, Conn. Filed Dec. 21, 1922.

Eli

Particular description of goods.—Boots and Shoes of Leather, Rubber, and Combinations of Leather and Rubber.
Claims use since Sept. 1, 1909.

Ser. No. 173,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MIDLAND FLOUR MILLING CO., Kansas City, Mo. Filed Dec. 21, 1922.



Particular description of goods.—Wheat Flour.
Claims use since May 1, 1917.

Ser. No. 173,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIOGA MILL & ELEVATOR CO., Waverly, N. Y. Filed Dec. 21, 1922.

Chicatine

Particular description of goods.—Poultry Feed.
Claims use since February, 1922.

Ser. No. 173,707. (CLASS 38. PRINTS AND PUBLICATIONS.) INSTITUTE FOR PUBLIC SERVICE, New York, N. Y. Filed Dec. 22, 1922.

LOOSELEAF CURRENT TOPICS

Particular description of goods.—Periodical Publications.
Claims use since about Sept. 1, 1922.

Ser. No. 173,719. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE PLATINIDE CO. INC., Providence, R. I. Filed Dec. 22, 1922.



No claim is made to the word "Metal" apart from the mark shown.
Particular description of goods.—Platers' Bars, Sheet Metal, Metal Rods, and Ingots.
Claims use since about Jan. 1, 1920.

Ser. No. 173,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RALSTON PURINA COMPANY, St. Louis, Mo. Filed Dec. 22, 1922.

STARTENA

Particular description of goods.—Poultry Feed.
Claims use since Nov. 13, 1922.

Ser. No. 173,734. (CLASS 39. CLOTHING.) JOHN F. TRAVERS SHOE CO., Boston, Mass. Filed Dec. 22, 1922.



The word "Shoe" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shoes of Leather, Rubber, Fabric, and Combinations of Leather, Rubber, and Fabric.
Claims use since Aug. 14, 1922.

Ser. No. 173,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FINE PRODUCTS COMPANY, Pittsburgh, Pa. Filed Dec. 26, 1922.

Alco-heal

Particular description of goods.—Pharmaceutical Preparation Consisting of Alcohol so Treated as to be Unfit for Any Beverage Purposes.
Claims use since Dec. 14, 1922.

Ser. No. 173,833. (CLASS 38. PRINTS AND PUBLICATIONS.) INDEPENDENT SCHOOL DISTRICT OF NEWTON, Newton, Iowa. Filed Dec. 26, 1922.

NEWTONIA

Particular description of goods.—High-School Newspaper and Annual.
Claims use since October, 1907.

Ser. No. 173,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRY-ME RADIATOR CEMENT COMPANY, Denver, Colo. Filed Dec. 26, 1922.



Particular description of goods.—Radiator Cement.
Claims use since Dec. 5, 1922.

Ser. No. 173,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICUS OJEDA MCMICHAEL, doing business as Carnotite Gland Extract Company, Denver, Colo. Filed Dec. 27, 1922.



No claim is made to the words "Car-No-Tite Baths, Made from Radium Bearing Ores" apart from the mark shown.
Particular description of goods.—CarNoTite Baths.
Claims use since Sept. 1, 1921.

Ser. No. 173,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Dec. 27, 1922.

STORAXOL

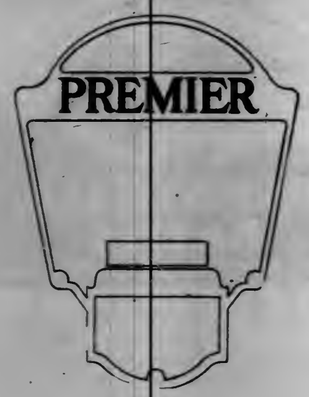
Particular description of goods.—Ointment for Eczema and Irritations of the Skin.
Claims use since May, 1909.

Ser. No. 173,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. STAPLETON AND JOHN TRACY STAPLETON, Shoals, Ind. Filed Dec. 27, 1922.

John T Stapleton

The name appearing in the drawing is a facsimile of the signature of John T. Stapleton, a member of the firm.
Particular description of goods.—Medicine for the Treatment of Diphtheria and Membranous Croup.
Claims use since Oct. 14, 1922.

Ser. No. 173,950. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., La Porte, Ind. Filed Dec. 29, 1922.



Particular description of goods.—Gas Water Heaters.
Claims use since Aug. 24, 1922.

Ser. No. 174,046. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Filed Dec. 30, 1922.



The lining on the drawing is for the purpose of shading and does not represent a particular color. The words "The Corset Invisible," as well as the pictorial representation of a corset, are disclaimed apart from said trade-mark.

Particular description of goods.—Women's Fitted Undergarments, Including Corsets, Made of Textile Fabrics.
Claims use since Dec. 21, 1922.

Ser. No. 174,087. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REUBEN A. LUNSFORD, doing business as California Products Company, Los Angeles, Calif. Filed Jan. 2, 1923.

CALIPALM

Particular description of goods.—Mayonnaise and Thousand Island Salad Dressing.
Claims use since Dec. 23, 1922.

Ser. No. 174,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRICE-BOOKER MANUFACTURING COMPANY, Waco and Houston, Tex. Filed Jan. 2, 1923.

TEXAMA

Particular description of goods.—Pickles and Condiments—Namely, Sour Pickles, Sweet Pickles, Dill Pickles, Chowchow, Sweet Relish, Hot Relish, Pepper Sauce, and Salad Mustard.
Claims use since October, 1920.

Ser. No. 174,127. (CLASS 25. LOCKS AND SAFES.) DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio. Filed Jan. 3, 1923.



No claim is made to the words "Canton, Ohio, U. S. A." apart from the mark shown.

Particular description of goods.—Filing Safes, Skeleton Safes, Fireproof Safes, Burglarproof Safes, Manganese Safes, Vault Doors, Locks, and Safe-Deposit Boxes.
Claims use since Oct. 5, 1922.

Ser. No. 174,256. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MONROE, LEDERER & TAUSSIG, Philadelphia, Pa. Filed Jan. 6, 1923.

Moleta
THE QUALITY COMES

White Light

Particular description of goods.—Dry and Ready-Mixed Paints, Paint Enamels, Stains, and Varnishes.
Claims use since Nov. 17, 1922.

Ser. No. 174,344. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD PURVEYORS, INC., New York, N. Y. Filed Jan. 8, 1923.

PURVEYOR

Particular description of goods.—Canned Peas, Tomato Purée, Apples, String Beans, Tomatoes, and Cranberries in the Bulk.
Claims use since May 1, 1920.

Ser. No. 174,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES WEISBECKER, New York, N. Y. Filed Jan. 8, 1923. Under ten-year proviso.

MANHATTAN

Particular description of goods.—Salad Dressing.
Claims use since 1883.

Ser. No. 174,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. BECKER MEDICINE CO., New York, N. Y. Filed Jan. 10, 1923.

PIOJINA

Particular description of goods.—Insecticide Ointment and Shampoo.
Claims use since September, 1922.

Ser. No. 174,422. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALAGA & FORENCICH CO., Watsonville, Calif. Filed Jan. 11, 1923.

peace

Particular description of goods.—Fresh Apples.
Claims use since Nov. 10, 1921.

Ser. No. 174,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK BURNES, doing business as Burnes Remedy Company, St. Louis, Mo. Filed Jan. 11, 1923.



Particular description of goods.—Liquid Preparation for the Treatment of Rheumatism.
Claims use since October, 1917.

Ser. No. 174,445. (CLASS 39. CLOTHING.) R AN W HAT SHOP, INC., Norwalk, Conn. Filed Jan. 11, 1923.

AERKOOL

Particular description of goods.—Hats.
Claims use since Feb. 1, 1922.

Ser. No. 174,474. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRELL-SOULE COMPANY, Syracuse, N. Y. Filed Jan. 11, 1923.

PARLAC

Particular description of goods.—Whole-Milk Powder.
Claims use since Dec. 21, 1922.

Ser. No. 174,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDGAR S. GEBHART, doing business as Redfern Medicine Company, Dayton, Ohio. Filed Jan. 12, 1923.



Particular description of goods.—Digestive Tonic.
Claims use since Nov. 25, 1922.

Ser. No. 174,564. (CLASS 38. PRINTS AND PUBLICATIONS.) VINCENT J. FARLEY, doing business as How To Make Money Publishing Co., Long Island City, N. Y. Filed Jan. 13, 1923.

HOW TO MAKE MONEY

Particular description of goods.—Serial Monthly Magazine.
Claims use since Jan. 1, 1923.

Ser. No. 174,599. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAMAL PACKING CO., San Francisco, Calif. Filed Jan. 13, 1923.

BON GUSTO

Particular description of goods.—Canned Tomatoes.
Claims use since Dec. 1, 1922.

Ser. No. 174,639. (CLASS 17. TOBACCO PRODUCTS.) J. H. C. SCHOETTKER SONS, Springfield, Ill. Filed Jan. 15, 1923. Under ten-year proviso.



The drawing is lined for the color red; but no claim is made to exclusive rights for a label colored red.
Particular description of goods.—Cigars.
Claims use since Feb. 25, 1886.

Ser. No. 174,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS BROTHERS, San Francisco, Calif. Filed Jan. 17, 1923.

Trupak

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Jan. 4, 1923.

Ser. No. 174,737. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARY M. HARDY & FLORENCE H. BAIRD, South Orange, N. J. Filed Jan. 18, 1923.

Marflo

Particular description of goods.—Candies.
Claims use since about Nov. 1, 1922.

Ser. No. 174,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 18, 1923.

JUDGE

Particular description of goods.—Chocolate Coating.
Claims use since Dec. 1, 1922.

Ser. No. 174,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 19, 1923.

HIGH-COURT

Particular description of goods.—Chocolate Coating.
Claims use since Dec. 1, 1922.

Ser. No. 174,803. (CLASS 15. OILS AND GREASES.) SNOWOLENE HOLDING COMPANY, Los Angeles, Calif. Filed Jan. 19, 1923.

PEACOCK QUALITY

Applicant disclaims the exclusive right to the use of the word "Quality" apart from the mark as shown.
Particular description of goods.—Gasoline, Kerosene, and Motor Fuel Oils.
Claims use since Nov. 14, 1922.

Ser. No. 174,889. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHICAGO BELTING COMPANY, Chicago, Ill. Filed Jan. 22, 1923.

Flexfan

Trade-mark consists of the mere invented word "Flexfan."
Particular description of goods.—Leather Belting.
Claims use since Jan. 17, 1923.

Ser. No. 174,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH AMERICAN MERCANTILE CO. INC., San Francisco, Calif. Filed Jan. 22, 1923.

Namco

Particular description of goods.—Canned Fruits, Canned Vegetables, Dried Fruits, Condensed Milk, Chop-Suey Sauce, and Canned Fish.
Claims use since June 10, 1912.

Ser. No. 174,924. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP RIESMAN, doing business as Royal Electric Company, Chelsea, Mass. Filed Jan. 22, 1923.



Particular description of goods.—Electric Bulbs and Lamps.
Claims use since Jan. 1, 1915.

Ser. No. 174,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SEYMOUR PACKING COMPANY, Topeka, Kans. Filed Jan. 22, 1923.

VICTOR

Particular description of goods.—Dressed Poultry.
Claims use since 1904.

Ser. No. 174,944. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) IBISH SULIMÁN, Lynn, Mass. Filed Jan. 22, 1923.

HALEP

Particular description of goods.—Soaps.
Claims use since June 1, 1922.

Ser. No. 174,966. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLARENCE E. LA BOYTEAUX, doing business as C. E. La Boyteaux Co., Los Angeles, Calif. Filed Jan. 23, 1923.



No claim is made to the exclusive use of the words "Los Angeles" apart from the mark as shown. The lining in the drawing indicates red.

Particular description of goods.—Concrete Mixers, Saw Tables, Pumps, Hoists, and Shovels.

Claims use since Nov. 15, 1922.

Ser. No. 175,017. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE MAYER CHINA COMPANY, Beaver Falls, Pa. Filed Jan. 24, 1923. Under ten-year proviso.

MAYER CHINA

Particular description of goods.—Chinaware.

Claims use since 1881.

Ser. No. 175,099. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, Cleveland, Ohio. Filed Jan. 25, 1923.

Dependable Highways

Particular description of goods.—House Organ Published Monthly.

Claims use since April, 1921.

Ser. No. 175,129. (CLASS 12. CONSTRUCTION MATERIALS.) BREWER & COMPANY, INC., Worcester, Mass. Filed Jan. 26, 1923.



Without waiving any rights at common law applicant disclaims any attempt to cover in this application the words "Easy Work" except in the precise relation and association in which they are shown in the mark as a whole.

Particular description of goods.—Lime.

Claims use since Nov. 1, 1922.

Ser. No. 175,151. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NELSON BEAD COMPANY, New York, N. Y. Filed Jan. 26, 1923.

NEBECO

Particular description of goods.—Beads.

Claims use since July 1, 1922.

Ser. No. 175,210. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PARKER BROTHERS, Salem, Mass. Filed Jan. 27, 1923.

CHING-CHOW

Particular description of goods.—Card Games.

Claims use since Jan. 15, 1923.

Ser. No. 175,215. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 27, 1923.

Chieftain

Particular description of goods.—Safety Pins.

Claims use since Aug. 23, 1922.

Ser. No. 175,245. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HOOVER COMPANY, North Canton, Ohio. Filed Jan. 29, 1923.

SERVANT TO THE HOME

Particular description of goods.—Electric Suction Sweepers.

Claims use since July 1, 1922.

Ser. No. 175,266. (CLASS 38. PRINTS AND PUBLICATIONS.) THE OKLAHOMA PUBLISHING COMPANY, Oklahoma, Okla. Filed Jan. 29, 1923.

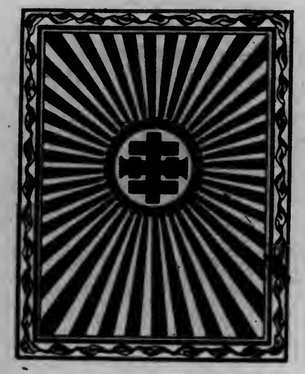
The OKLAHOMA FARMER-STOCKMAN

Trade-mark "The Oklahoma Farmer-Stockman" is shaded with vertical lines.

Particular description of goods.—Monthly Magazine.

Claims use since September, 1911.

Ser. No. 175,310. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRISWOLDVILLE M'F'G CO., New York, N. Y. Filed Jan. 30, 1923.



Particular description of goods.—Unmedicated Gauze.

Claims use since Dec. 15, 1922.

Ser. No. 175,375. (CLASS 39. CLOTHING.) THE YOUNG HAT COMPANY, Norwalk, Conn. Filed Jan. 31, 1923.

The Sky-Line of the Nation

Trade-mark consists of the words "The Sky-Line of the Nation."

Particular description of goods.—Men's Headwear—viz, Hats and Caps.

Claims use since Jan. 26, 1923.

Ser. No. 175,417. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRAFFIC CONTROL, INCORPORATED, Milwaukee, Wis. Filed Feb. 1, 1923.

TRAFICON

Particular description of goods.—Traffic Lights Which are Electrical Means at Street Intersections for Directing or Controlling Traffic.

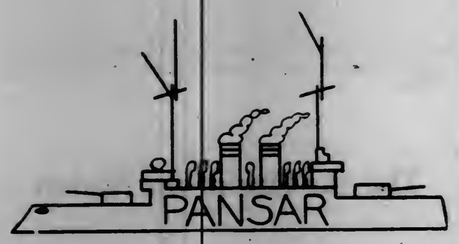
Claims use since Nov. 16, 1922.

Ser. No. 175,430. (CLASS 45. BEVERAGES, NONALCOHOLIC.) J. F. LAUER MFG. CO., St. Louis, Mo. Filed Feb. 2, 1923.

Li-Mo

Particular description of goods.—Nonalcoholic, Maltless Soft Drinks.
Claims use since 1919.

Ser. No. 175,514. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. O. ÖBERG & CO:S AKTIEBOLAG, Eskilstuna, Sweden. Filed Feb. 3, 1923.



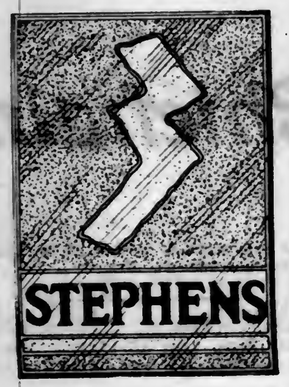
Particular description of goods.—Files and Rasps.
Claims use since 1909.

Ser. No. 175,553. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HADFIELDS LIMITED, Sheffield, England. Filed Feb. 5, 1923.

PERMANITE

Trade-mark consists of the mere invented word "Permanite."
Particular description of goods.—Unwrought and Partly-Wrought Steel in Rod, Bar, Rail, Sheet, Strip, Hoop, or Wire, Comprising Mild Steel, Cast Steel, High-Speed Steel, Alloy Steels, Manganese Steel, Steel Castings and Forgings.
Claims use since December, 1919.

Ser. No. 175,571. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STEPHENS MOTOR CAR COMPANY, INCORPORATED, Moline, Ill. Filed Feb. 5, 1923.



No claim is made to color apart from mark as shown.
Particular description of goods.—Automobiles.
Claims use since Dec. 1, 1922.

Ser. No. 175,694. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Feb. 8, 1923.

RESISTON

Particular description of goods.—Dials Made of Hard Rubber for Radio Apparatus.
Claims use since Jan. 22, 1923.

Ser. No. 175,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE ODESSA CANNING CO., Lake Odessa, Mich. Filed Feb. 9, 1923.

RADIO

Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since Apr. 30, 1922.

Ser. No. 175,799. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LANDERS, FRARY & CLARK, New Britain, Conn. Filed Feb. 9, 1923.

Whirlwind

Particular description of goods.—Electrically-Driven Vacuum Cleaners.
Claims use since Jan. 2, 1922.

Ser. No. 175,884. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THOMAS PATRYCKI, Hawkins, Wis. Filed Feb. 10, 1923.



Particular description of goods.—Lightning Arresters.
Claims use since December, 1922.

Ser. No. 176,022. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN GREIG, London, England. Filed Feb. 14, 1923.

THE TOTE

Particular description of goods.—An Apparatus for Playing a Game of Chance.
Claims use since May 1, 1922.

Ser. No. 176,044. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REGULATION PAINT CO., Louisville, Ky. Filed Feb. 14, 1923.

Regulation

Particular description of goods.—Wagon Paint, Fiber-Roof Paint, Varnish, Paint Enamel, Porch-Floor Paint, Flat Wall Finish, Penetrating Stain, and Ready-Mixed Paints.
Claims use since April, 1921.

Ser. No. 176,061. (CLASS 2. RECEPTACLES.) PEARL H. BRAINARD, doing business as Macomb Manufacturing Company, Macomb, Ill. Filed Feb. 15, 1923.

LITTLE BROWN JUG

Particular description of goods.—Iceless and Fireless Receptacles for Retaining Heat and Cold.
Claims use since about Mar. 1, 1921.

Ser. No. 176,103. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE A. STAFFORD, doing business as G. A. Stafford & Co., New York, N. Y. Filed Feb. 15, 1923.

GGG

Particular description of goods.—Woven Cotton Fabrics in the Piece.
Claims use since June 1, 1917.

Ser. No. 176,108. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HENRY G. BENTLEY, doing business as H. G. Bentley, Dallas, Tex. Filed Feb. 16, 1923.

Walking Spring

Particular description of goods.—Arch Supporters for the Human Foot.
Claims use since Oct. 7, 1922.

Ser. No. 176,118. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Feb. 16, 1923.

TEXTOLITE

Particular description of goods.—Nonmetallic Gear Wheels and Gear-Wheel Blanks.
Claims use since January, 1923.

Ser. No. 176,134. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MAX SAHLIN, Denver, Colo. Filed Feb. 16, 1923.

STRATOE

Particular description of goods.—Mechanical Devices for Straightening Crooked Toes.
Claims use since Feb. 10, 1923.

Ser. No. 176,136. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, doing business as The Western Company, Chicago, Ill. Filed Feb. 16, 1923.

WECO Product

No claim is made to the word "Product" apart from the rest of the mark shown in the drawing.
Particular description of goods.—Handkerchiefs and Hair Nets.
Claims use since Aug. 15, 1921, on hair nets; since Feb. 4, 1922, on handkerchiefs.

Ser. No. 176,205. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HERBERT R. PALMER, doing business as T-N-T Spark Plug Co., Cleveland, Ohio. Filed Feb. 17, 1923.



The words "Cleveland, Ohio, Spark Plug, The Plug with the Explosive Spark" and the representation of the goods are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Spark Plugs.
Claims use since Mar. 1, 1920.

Ser. No. 176,313. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y. Filed Feb. 19, 1923.

SIRIUS

Trade-mark consists of the word "Sirius."
Particular description of goods.—Bronze Powder and Bronzing Liquid.
Claims use since Jan. 24, 1922.

Ser. No. 176,404. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GRACENET CO., INC., New York, N. Y. Filed Feb. 21, 1923.

ROMANET

Particular description of goods.—Hair Nets.
Claims use since Jan. 25, 1923.

Ser. No. 176,438. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed Feb. 23, 1923.

Bradleyometer

Particular description of goods.—Electrical Controlling Devices of the Compression Resistor Type and Electrical Instruments for Varying the Potential of Electric Currents.
Claims use since September, 1922.

Ser. No. 176,535. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRUNE, POTTBERG & CO., New York, N. Y. Filed Feb. 24, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since on or about Mar. 14, 1918.

Ser. No. 176,577. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE SHIRT SNUBERS COMPANY, Toledo, Ohio. Filed Feb. 24, 1923.

SHIRT SNUBERS

No claim is made for the word "Shirt" aside from the trade-mark as shown.
Particular description of goods.—Devices for Preventing Shirts from Creeping Up.
Claims use since Oct. 16, 1922.

Ser. No. 176,589. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDWARD ABRAHAM, doing business as Abraham & Co., New York, N. Y. Filed Feb. 26, 1923.

Everstretch

Particular description of goods.—Buckles and Belt Links, Both for Personal Wear and Not Made of Precious Metal.
Claims use since middle of February, 1923.

Ser. No. 176,677. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS A. HAZELTINE, Hoboken, N. J. Filed Feb. 27, 1923.

NEUTROFORMER

Particular description of goods.—Electrical Transformers.
Claims use since Feb. 23, 1923.

Ser. No. 176,678. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS A. HAZELTINE, Hoboken, N. J. Filed Feb. 27, 1923.

NEUTRODON

Particular description of goods.—Electrical Condensers.
Claims use since Feb. 23, 1923.

Ser. No. 176,704. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) PHILA MARTON SHUGART, Washington, D. C. Filed Feb. 28, 1923.

Tutankhamen.

Particular description of goods.—Imitation-Pearl Necklaces.
Claims use since Jan. 1, 1923.

Ser. No. 176,714. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BYARD F. BROGAN, Philadelphia, Pa. Filed Feb. 28, 1923.

THE LOVE TIE

Particular description of goods.—Finger Rings.
Claims use since April, 1921.

Ser. No. 176,715. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BYARD F. BROGAN, Philadelphia, Pa. Filed Feb. 28, 1923.

UTOPIA

Particular description of goods.—Finger Rings.
Claims use since April, 1921.

Ser. No. 176,757. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN J. O'BRIEN, Coggon, Iowa. Filed Feb. 28, 1923.



Particular description of goods.—Pump Coupling.
Claims use since Nov. 4, 1922.

Ser. No. 176,778. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Mar. 1, 1923.

RESISTON

Particular description of goods.—Aerial Insulators and Radio Panels.
Claims use since Feb. 5, 1923.

Ser. No. 176,783. (CLASS 37. PAPER AND STATIONERY.) BERLIN & JONES COMPANY, INC., New York, N. Y. Filed Mar. 1, 1923.



Particular description of goods.—Paper and Stationery—Namely, Writing Paper of Various Kinds and Sizes and Envelopes Packed in Cardboard Boxes.
Claims use since on or about Jan. 1, 1914.

Ser. No. 176,793. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GARHART DENTAL SPECIALTY COMPANY, Somerville, Mass. Filed Mar. 1, 1923.

SYNTHAY PORCELAIN

No registration rights are claimed for the word "Porcelain" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Material Adapted upon Admixtures to Form a Filling for Teeth.
Claims use since October, 1921.

Ser. No. 176,800. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MILLER BROTHERS, New York, N. Y. Filed Mar. 1, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Earrings, Hatpins, Brooches, Rings, Necklaces, and Bracelets.
Claims use since November, 1922.

Ser. No. 176,829. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

CENTURY

Particular description of goods.—Compounded Oil Consisting of Pine Oil, Rosin Oil, Turpentine, and Petroleum.
Claims use since Apr. 4, 1922.

Ser. No. 176,830. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

FLOTO

Particular description of goods.—Pine Oil.
Claims use since Oct. 17, 1921.

Ser. No. 176,831. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

HERCO

Particular description of goods.—Pine Oil.
Claims use since Feb. 12, 1923.

Ser. No. 176,832. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

REMOH

Particular description of goods.—Pine Oil.
Claims use since Jan. 18, 1922.

Ser. No. 176,833. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

RISOR

Particular description of goods.—Pine Oil.
Claims use since May 12, 1922.

Ser. No. 176,834. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

TAROL

Particular description of goods.—Compounded Oil Consisting of Pine Oil, Rosin, Pitch, Rosin Oil, and Petroleum.
Claims use since Mar. 4, 1922.

Ser. No. 176,835. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923.

YARMOR

Particular description of goods.—Pine Oil.
Claims use since Nov. 10, 1921.

Ser. No. 176,957. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DONIGER & COMPANY INC., New York, N. Y. Filed Mar. 5, 1923.

X-ACTO

Particular description of goods.—Hypodermic Syringes.
Claims use since April, 1920.

Ser. No. 177,035. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Mar. 6, 1923.

Romany Crepe

No claim is made to the word 'Crepe" apart from the mark as shown.
Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Feb. 23, 1923.

Ser. No. 177,061. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE AMERICAN PIN COMPANY, Waterbury, Conn. Filed Mar. 7, 1923.

LITTLE DIXIE

Particular description of goods.—Safety Pins.
Claims use since Feb. 24, 1923.

Ser. No. 177,155. (CLASS 25. LOCKS AND SAFES.) GUSTAVE EDWARD WESTBERG, Los Angeles, Calif. Filed Mar. 8, 1923.

DISKLOC

Particular description of goods.—Antitheft Locks for the Wheels of Motor Vehicles.
Claims use since Oct. 21, 1922.

Ser. No. 177,199. (CLASS 31. FILTERS AND REFRIGERATORS.) PRESCOTT & COMPANY, Boston, Mass. Filed Mar. 9, 1923.

NEW HOME

Particular description of goods.—Domestic Refrigerators.
Claims use since Feb. 9, 1923.

Ser. No. 177,251. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, INCORPORATED, New York, N. Y. Filed Mar. 10, 1923.

Terra Kote

Particular description of goods.—Liquid Paint for Application to Terra-Cotta or Similar Block Walls, or Ceilings to Which Plaster is to be Directly Applied.
Claims use since about Dec. 1, 1922.

Ser. No. 177,302. (CLASS 37. PAPER AND STATIONERY.) JOHNSON-BREYDING-JOHNSON, St. Louis, Mo. Filed Mar. 12, 1923.

APPLIQUE

Particular description of goods.—Printing Paper, Envelopes, and Writing Paper.
Claims use since about Jan. 1, 1923.

Ser. No. 177,347. (CLASS 37. PAPER AND STATIONERY.) THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Mar. 13, 1923. Under ten-year proviso.

Prang

Particular description of goods.—Crayons and Pencils.
Claims use since about 1870 on crayons; since about 1885 on pencils.

Ser. No. 177,553. (CLASS 17. TOBACCO PRODUCTS.) EDWARD FUNKE, doing business as Near East Trading Co., New York, N. Y. Filed Mar. 16, 1923.

TUTS

Particular description of goods.—Cigarettes.
Claims use since Feb. 20, 1923.

Ser. No. 177,554. (CLASS 17. TOBACCO PRODUCTS.) EDWARD FUNKE, doing business as Near East Trading Co., New York, N. Y. Filed Mar. 16, 1923.



Particular description of goods.—Cigarettes.
Claims use since Feb. 20, 1923.

Ser. No. 177,573. (CLASS 43. THREAD AND YARN.) SOCIETE EN COMMANDITE MAURICE FRINGS & CIE., Paris, France. Filed Mar. 16, 1923.



Particular description of goods.—Cotton Thread.
Claims use since Oct. 18, 1844.

Ser. No. 177,612. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCKNIGHT-KEATON GROCERY CO., Cairo, Ill. Filed Mar. 17, 1923.

RADIO

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 1, 1901.

Ser. No. 177,807. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) F. W. WOOLWORTH CO., Watertown and New York, N. Y. Filed Mar. 21, 1923.

BIRD OF PARADISE



Particular description of goods.—White and Colored Bias-Seam, Twill, Silk and Cotton, Mercerized, and Lingerie Tape of All Kinds and Widths and for White and Colored Lingerie Braid of All Kinds and Widths.
Claims use since Oct. 1, 1922.

Ser. No. 177,879. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Mar. 22, 1923.

HAIR

Particular description of goods.—Petroleum and Products of Petroleum with or without Admixtures of Other Materials for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust-Preventing, Surface-Preserving, and Tempering.
Claims use since 1910.

Ser. No. 177,881. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Mar. 22, 1923.

TUNNEL

Particular description of goods.—Petroleum and Products of Petroleum with or without Admixtures of Other Materials for Illuminating and Heating, Lubricating, Greasing, Solvent, Waterproofing, Rust-Preventing, Surface-Preserving, and Tempering.
Claims use since 1910.

Ser. No. 177,923. (CLASS 37. PAPER AND STATIONERY.) PACKAGE PAPER & SUPPLY CORPORATION, Springfield, Mass. Filed Mar. 23, 1923.

Dayly Bread

Particular description of goods.—Wrapping Paper, Particularly Bread Wrappers.
Claims use since Mar. 1, 1923.

Ser. No. 177,926. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUN-BIL AUTO POLISH CO., Somerville, Mass. Filed Mar. 23, 1923.

SUN-BIL AUTO POLISH



For Automobiles

The words "Auto Polish for Automobiles" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Polish for Automobiles, Furniture, and Any Articles Having a Varnish Finish.
Claims use since Mar. 14, 1923.

Ser. No. 177,976. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JORDAN MARSH COMPANY, Boston, Mass. Filed Mar. 24, 1923.

Avona

Particular description of goods.—Albums for Talking-Machine Records.
Claims use since Jan. 1, 1923.

Ser. No. 178,147. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Mar. 27, 1923.

SPONGE

Particular description of goods.—Petroleum and Products of Petroleum with or without Admixtures of Other Materials for Illuminating and Heating, Greasing, Solvent, Waterproofing, Rust-Preventing, Surface-Preserving, and Tempering.
Claims use since 1906.

Ser. No. 178,149. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 27, 1923.

MAGICFLOSS

No claim made to the right to the exclusive use of the word "Floss" apart from the mark shown.
Particular description of goods.—Yarns for Knitting Crocheting, and Art Needlework.
Claims use since about Feb. 15, 1923.

Ser. No. 178,150. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 27, 1923.

TWINKLE YARN

No claim made to the right to the exclusive use of the word "Yarn" apart from the mark shown.
Particular description of goods.—Yarns for Knitting Crocheting, and Art Needlework.
Claims use since about Feb. 15, 1923.

Ser. No. 178,173. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FLOOD & CONKLIN COMPANY, Newark, N. J. Filed Mar. 28, 1923.

520

Particular description of goods.—Pyroxylin Lacquer.
Claims use since Feb. 15, 1923.

Ser. No. 178,360. (CLASS 17. TOBACCO PRODUCTS.) SALVADOR RODRIGUEZ, New York, N. Y. Filed Mar. 30, 1923.

CHARLES THE GREAT

Particular description of goods.—Cigars.
Claims use since about 1890.

Ser. No. 178,454. (CLASS 37. PAPER AND STATIONERY.) NEW ENGLAND STATIONERY COMPANY, Boston, Mass. Filed Apr. 2, 1923.

CITY CLUB

Particular description of goods.—Stationery—Namely, Letter Paper, Envelopes, and Writing Tablets.
Claims use since on or about Mar. 26, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 8, 1923.

167,641. CHEESE FOR MACARONI. WILLIAM A. NAVIGATO, Chicago, Ill.
Filed August 29, 1922. Serial No. 168,849. PUBLISHED JANUARY 16, 1923.

167,642. CLEANING, COLORING, AND POLISHING PREPARATION FOR FOOTWEAR. EVERETT & BARRON CO., Providence, R. I.
Filed August 25, 1922. Serial No. 168,676. PUBLISHED JANUARY 2, 1923.

167,643. FOOT POWDERS. CHARLES G. BOYD, Bethlehem, Pa.
Filed August 24, 1922. Serial No. 168,629. PUBLISHED JANUARY 30, 1923.

167,644. SOAP. ALBERTO VALES COMPANY, New Orleans, La.
Filed August 22, 1922. Serial No. 168,591. PUBLISHED JANUARY 2, 1923.

167,645. TALLOW LARGELY USED IN SOAP MAKING. THE NEW ZEALAND REFRIGERATING COMPANY, LIMITED, Christchurch, New Zealand.
Filed August 22, 1922. Serial No. 168,588. PUBLISHED JANUARY 30, 1923.

167,646. TALLOW LARGELY USED IN SOAP MAKING. THE NEW ZEALAND REFRIGERATING COMPANY, LIMITED, Christchurch, New Zealand.
Filed August 22, 1922. Serial No. 168,587. PUBLISHED JANUARY 9, 1923.

167,647. TALLOW LARGELY USED IN SOAP MAKING. THE NEW ZEALAND REFRIGERATING COMPANY, LIMITED, Christchurch, New Zealand.
Filed August 22, 1922. Serial No. 168,586. PUBLISHED JANUARY 9, 1923.

167,648. WATERPROOFING PLASTIC COMPOSITIONS FOR ROADS AND CEMENT CONSTRUCTIONS. HENRY A. GARDNER, Washington, D. C.
Filed August 21, 1922. Serial No. 168,525. PUBLISHED JANUARY 9, 1923.

167,649. WATERPROOFING PLASTIC COMPOSITIONS FOR ROADS AND CEMENT CONSTRUCTIONS. HENRY A. GARDNER, Washington, D. C.
Filed August 21, 1922. Serial No. 168,524. PUBLISHED JANUARY 9, 1923.

167,650. GAS-RANGE DRESSING AND GAS-RANGE-POLISHING OIL. BLACK SILK STOVE POLISH WORKS, Sterling, Ill.
Filed August 19, 1922. Serial No. 168,445. PUBLISHED JANUARY 23, 1923.

167,651. METAL WOOL FOR CLEANSING, POLISHING, AND SCOURING. THE WILLIAMS COMPANY, London, Ohio.
Filed August 15, 1922. Serial No. 168,283. PUBLISHED DECEMBER 26, 1922.

167,652. ANTISEPTIC, GERMICIDAL, AND THERAPEUTIC COMPOSITIONS OF THE TYPE EMPLOYED FOR VAGINAL DOUCHING. DR. POLLACK HEALTH PRODUCTS CORP., New York, N. Y.
Filed August 10, 1922. Serial No. 168,064. PUBLISHED JANUARY 9, 1923.

167,653. FACE ENAMEL, A FACIAL APPLICATION FOR USE AS A SKIN CURATIVE. GLORIA CO., Chicago, Ill.
Filed August 8, 1922. Serial No. 167,940. PUBLISHED JANUARY 9, 1923.

167,654. CLEANSING SOLUTION HAVING BLEACHING PROPERTIES. ROBT. J. HENRY, Alameda, Calif.
Filed August 7, 1922. Serial No. 167,875. PUBLISHED DECEMBER 26, 1922.

167,655. SOAP. HASKINS BROTHERS & COMPANY, Sioux City, Iowa, and Omaha, Nebr.
Filed August 7, 1922. Serial No. 167,873. PUBLISHED JANUARY 2, 1923.

167,656. COAL. HARRY L. GOODWIN, doing business as Post-Golden Rule Fuel Co., Kansas City, Mo.
Filed August 7, 1922. Serial No. 167,871. PUBLISHED JANUARY 9, 1923.

167,657. TITLE OF ITS EDUCATIONAL AND SCIENTIFIC QUARTERLY MAGAZINE. AMERICAN SOCIAL HYGIENE ASSOCIATION, New York and Albany, N. Y.
Filed August 7, 1922. Serial No. 167,860. PUBLISHED JANUARY 30, 1923.

167,658. MEDICATED CHEWING GUM FOR THE TREATMENT OF GUM AND TEETH DISEASES. ROGER A. POOR, doing business as Oral Laboratories, Salem, Mass.
Filed August 4, 1922. Serial No. 167,829. PUBLISHED JANUARY 9, 1923.

167,659. PREPARATION FOR THE RELIEF OF CHRONIC AND ACUTE NEURITIS. GEORGE F. LEAHY, Syracuse, N. Y.
Filed August 4, 1922. Serial No. 167,821. PUBLISHED JANUARY 30, 1923.

167,660. COAL-TAR CHEMICALS OR INGREDIENTS, RUBBER ACCELERATORS OR CATALYZERS, RUBBER-COMPOUNDING INGREDIENTS, AND FLOTATION AGENTS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed August 4, 1922. Serial No. 167,823. PUBLISHED JANUARY 30, 1923.

167,661. STYLOGRAPHIC PENS. JACK D. SNOW, New York, N. Y.
Filed August 9, 1922. Serial No. 168,005. PUBLISHED FEBRUARY 20, 1923.

167,662. FRESH APPLES. R. A. TEDFORD & CO., Wenatchee, Wash.
Filed August 28, 1922. Serial No. 168,809. PUBLISHED FEBRUARY 13, 1923.

167,663. MACHINES FOR DIVIDING DOUGH. FRANK H. SHARPE, Dorchester, Mass.
Filed September 9, 1922. Serial No. 169,260. PUBLISHED FEBRUARY 20, 1923.

167,664. AIR FILTERS. STAYNEW FILTER CORPORATION, Rochester, N. Y.
Filed September 19, 1922. Serial No. 169,600. PUBLISHED FEBRUARY 20, 1923.

167,665. ENVELOPE CONTAINING A SERIES OF ENVELOPES OF GRADUATED SIZE FOR USE IN CARRYING OUT A HOME BUDGET SYSTEM. JULES W. LINDAU, Jr., New York, N. Y.
Filed September 27, 1922. Serial No. 169,979. PUBLISHED FEBRUARY 20, 1923.

167,666. REFRIGERATORS, ICE CHESTS, NURSERY BOXES, WATER COOLERS. GOLDENBERG'S, Washington, D. C.
Filed October 12, 1922. Serial No. 170,643. PUBLISHED FEBRUARY 20, 1923.

167,667. SMOKERS' PIPES. M M IMPORTING CO., New York, N. Y.
Filed November 7, 1922. Serial No. 171,705. PUBLISHED JANUARY 30, 1923.

167,668. SOFT DRINK. THE LYONS BROS. CO., Dallas, Tex.
Filed December 1, 1922. Serial No. 172,752. PUBLISHED FEBRUARY 20, 1923.

167,669. SALVE FOR CERTAIN NAMED AILMENTS, AND FACE CREAM. WESTERN WHOLESALE DRUG CO., Los Angeles, Calif.
Filed November 13, 1922. Serial No. 171,971. PUBLISHED FEBRUARY 20, 1923.

167,670. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed December 1, 1922. Serial No. 172,755. PUBLISHED FEBRUARY 13, 1923.

167,671. ELECTRIC GENERATING PLANTS. KOHLER COMPANY, Kohler, Wis.
Filed December 4, 1922. Serial No. 172,889. PUBLISHED FEBRUARY 20, 1923.

167,672. SOFT DRINKS AND SIRUPS. MATHIAS O. SPURGEON, also doing business as Wineberg Pure Beverage Company, Centralia, Wash.
Filed December 4, 1922. Serial No. 172,909. PUBLISHED FEBRUARY 20, 1923.

167,673. CORDUROYS IN THE PIECE. JOHN S. BOYD CO. INC., Williamstown, Mass., and New York, N. Y.
Filed December 12, 1922. Serial No. 173,227. PUBLISHED FEBRUARY 27, 1923.

167,674. WELDING APPARATUS USING GAS. THE PREST-O-LITE COMPANY, INC., Indianapolis, Ind.
Filed November 14, 1917. Serial No. 107,374. PUBLISHED FEBRUARY 6, 1923.

167,675. SELF-FEEDERS, INDIVIDUAL HOG HOUSES, AND CHICKEN COOPS. ADIX MANUFACTURING COMPANY, Boone, Iowa.
Filed November 16, 1920. Serial No. 139,705. PUBLISHED DECEMBER 26, 1922.

167,676. ASPHALTIC PAINTS FOR CERTAIN NAMED USES. GARDINER & LEWIS, INC., New York, N. Y.
Filed December 21, 1920. Serial No. 141,367. PUBLISHED FEBRUARY 13, 1923.

167,677. WINDSHIELD SHADE. WEDLER SHUFORD CO., St. Louis, Mo.
Filed January 17, 1921. Serial No. 142,367. PUBLISHED FEBRUARY 6, 1923.

167,678. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed May 9, 1921. Serial No. 147,470. PUBLISHED FEBRUARY 13, 1923.

167,679. SLIPPER SOLES AND HEELS AND BOOTS AND SHOES. TEDDY SARSON, doing business as Famous Shoe Repair Company, Pontiac, Mich.
Filed May 13, 1921. Serial No. 147,684. PUBLISHED FEBRUARY 6, 1923.

167,680. TABLEWARE. FRANKLIN SILVER PLATE COMPANY, Greenfield, Mass.
Filed May 18, 1921. Serial No. 147,872. PUBLISHED FEBRUARY 6, 1923.

167,681. CANDY. THE CITIZENS' WHOLESALE SUPPLY CO., Columbus, Ohio.
Filed October 31, 1921. Serial No. 154,791. PUBLISHED FEBRUARY 13, 1923.

167,682. CHAMOIS, ALSO KNOWN AS, AND IS, WASH LEATHER. FLEGLE & SAXE, St. Louis, Mo.
Filed November 21, 1921. Serial No. 155,678. PUBLISHED FEBRUARY 6, 1923.

167,683. TOILET SOAP. ANDREW JERGENS COMPANY OF CALIFORNIA, Burbank, Calif.
Filed December 19, 1921. Serial No. 156,904. PUBLISHED JANUARY 30, 1923.

167,684. NUT LOCKS. CHAPMAN SELF-LOCKING NUT CO., Baltimore, Md.
Filed December 21, 1921. Serial No. 156,983. PUBLISHED FEBRUARY 13, 1923.

167,685. TIRES COMPRISED WHOLLY OR IN PART OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 21, 1921. Serial No. 156,991. PUBLISHED FEBRUARY 6, 1923.

167,686. WATCHES AND CLOCKS. ROBT. H. INGERSOLL & BRO., New York, N. Y., assignor, by mesne assignments, to Waterbury Clock Company, a Corporation of Connecticut.
Filed January 26, 1922. Serial No. 158,476. PUBLISHED FEBRUARY 13, 1923.

167,687. RUBBER VALVE CAPS. THE DAYTON RUBBER MANUFACTURING CO., Dayton, Ohio.
Filed February 2, 1922. Serial No. 158,761. PUBLISHED FEBRUARY 6, 1923.

167,688. PISTON RINGS. EVERYDAY PISTON RING COMPANY, INC., Rochester, N. Y.
Filed February 2, 1922. Serial No. 158,762. PUBLISHED FEBRUARY 6, 1923.

167,689. CERTAIN NAMED TEXTILE FABRICS. AMERICAN TEXTILE ART PRINTING & DYEING COMPANY, Fort Wayne, Ind.
Filed February 10, 1922. Serial No. 159,134. PUBLISHED FEBRUARY 13, 1923.

167,690. CHARCOAL TO BE USED IN CONNECTION WITH STOCK AND POULTRY FEED. WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Vernon, Calif.
Filed February 25, 1922. Serial No. 159,825. PUBLISHED FEBRUARY 6, 1923.

167,691. CANDY, AND A CANDIED SWEETMEAT—NAMELY, POP CORN. A. AUGUST KEIPER, doing business as Keiper Candy Co., Wilkes-Barre, Pa.
Filed March 1, 1922. Serial No. 160,014. PUBLISHED FEBRUARY 13, 1923.

167,692. SOAPS. L. CHATHAM, SR., PRODUCTS COMPANY, Milwaukee, Wis.
Filed February 27, 1922. Serial No. 159,847. PUBLISHED JANUARY 30, 1923.

167,693. CERTAIN NAMED OILS AND GREASES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed March 3, 1922. Serial No. 160,105. PUBLISHED FEBRUARY 13, 1923.

167,694. FARM AND GARDEN SEEDS. PEDIGREED SEED COMPANY, Hartsville, S. C.
Filed August 7, 1922. Serial No. 167,890. PUBLISHED FEBRUARY 20, 1923.

167,695. COAL MOLDED AND PRESSED INTO BRIQUETTES. SOUTHERN GEM COAL CORPORATION, Chicago, Ill.
Filed August 4, 1922. Serial No. 167,832. PUBLISHED FEBRUARY 20, 1923.

167,696. CERTAIN NAMED STATIONERY. MUNSELL COLOR COMPANY, INC., New York, N. Y.
Filed August 1, 1922. Serial No. 167,683. PUBLISHED FEBRUARY 20, 1923.

167,697. JAMS, JELLIES, MARMALADES, FRUIT PRESERVES, FRUIT BUTTERS, CANDIES, MARMALADE STOCK OR PULP, AND JELLY STOCK OR PULP. FRUTRITE PRODUCTS COMPANY, Los Angeles, Calif.
Filed July 17, 1922. Serial No. 166,991. PUBLISHED FEBRUARY 20, 1923.

167,698. FRESH CANTALOUPES. SAWDEY AND HUNT, Los Angeles, Calif.
Filed July 10, 1922. Serial No. 166,726. PUBLISHED FEBRUARY 20, 1923.

167,699. MINERAL SOAP. CRYSTO SOAP CO., Aurora, Ill.
Filed July 10, 1922. Serial No. 166,652. PUBLISHED FEBRUARY 13, 1923.

167,700. DRIED FRUITS AND CANNED FRUITS. CALIFORNIA FRUIT SELLING COMPANY, San Francisco, Calif.
Filed June 19, 1922. Serial No. 165,667. PUBLISHED FEBRUARY 13, 1923.

167,701. CANDY. PAXTON AND GALLAGHER CO., Omaha, Nebr.
Filed June 12, 1922. Serial No. 165,410. PUBLISHED FEBRUARY 20, 1923.

167,702. CANNED AND DEHYDRATED FRUITS AND CANNED AND DEHYDRATED VEGETABLES. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg.
Filed June 12, 1922. Serial No. 165,393. PUBLISHED FEBRUARY 13, 1923.

167,703. CANNED AND DEHYDRATED FRUITS AND CANNED AND DEHYDRATED VEGETABLES. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg.
Filed June 12, 1922. Serial No. 165,390. PUBLISHED FEBRUARY 13, 1923.

167,704. FRESH LEMONS. CORONA FOOTHILL LEMON COMPANY, Corona, Calif.
Filed June 3, 1922. Serial No. 164,866. PUBLISHED FEBRUARY 13, 1923.

167,705. EXTENSIBLE CUFF BUTTONS. CECIL C. TAYLOR, Chicago, Ill.
Filed March 13, 1922. Serial No. 160,645. PUBLISHED FEBRUARY 20, 1923.

167,706. TYPEWRITING MACHINES AND TYPEWRITING-MACHINE PARTS. UNDERWOOD TYPEWRITER COMPANY, New York, N. Y.
Filed January 7, 1922. Serial No. 157,642. PUBLISHED FEBRUARY 20, 1923.

167,707. CERTAIN NAMED TOOLS. CHAMPION TOOL COMPANY, Meadville, Pa.
Filed August 31, 1921. Serial No. 152,418. PUBLISHED JULY 25, 1922.

167,708. CANNED AND DEHYDRATED FRUITS AND CANNED AND DEHYDRATED VEGETABLES. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg.
Filed June 12, 1922. Serial No. 165,388. PUBLISHED FEBRUARY 13, 1923.

167,709. FRESH LEMONS. CORONA FOOTHILL LEMON COMPANY, Corona, Calif.
Filed June 3, 1922. Serial No. 164,865. PUBLISHED FEBRUARY 13, 1923.

167,710. CANDY, SPECIFICALLY CHOCOLATE BARS. LOOSE-WILES BISCUIT COMPANY, also doing business as Loose-Wiles Company, Kansas City, Mo.
Filed March 30, 1922. Serial No. 161,492. PUBLISHED FEBRUARY 20, 1923.

167,711. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, AND COFFEE. J. J. HOGAN, INCORPORATED, La Crosse, Wis.
Filed March 23, 1922. Serial No. 161,130. PUBLISHED FEBRUARY 20, 1923.

167,712. LARD SUBSTITUTES. SWIFT AND COMPANY, Chicago, Ill.
Filed March 13, 1922. Serial No. 160,637. PUBLISHED FEBRUARY 27, 1923.

167,713. ABRASIVE PAPER. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn.
Filed October 18, 1921. Serial No. 154,278. PUBLISHED FEBRUARY 13, 1923.

167,714. ELECTRICAL APPARATUS—NAMELY, STARTERS, CUT-OUTS, RHEOSTATS, INDUCTION COILS, DYNAMOS, MOTORS, ELECTRIC CABLES, AND INSULATORS. ERNESTINE JULIE GABRIELLE PACAULT, Forest-Brussels, Belgium.
Filed October 6, 1920. Serial No. 138,019. PUBLISHED JANUARY 23, 1923.

167,715. SAFETY DEVICES FOR HANDLING ELECTRIC FUSES. EDWARD V. GLUCK, doing business as Safe-T Fuse Handle Co., Richmond Hill, N. Y., assignor to Safe-T Fuse Handle Co., Inc., Woodhaven, Long Island, N. Y., a Corporation of New York.
Filed November 5, 1920. Serial No. 139,206. PUBLISHED JANUARY 23, 1923.

167,716. SOAPS. E. SCHUELLER, Paris, France.
Filed February 28, 1921. Serial No. 144,157. PUBLISHED JANUARY 30, 1923.

167,717. DATES. RICHARDS & CO. (London) Limited, London, England.
Filed March 3, 1921. Serial No. 144,297. PUBLISHED AUGUST 1, 1922.

167,718. MEDICINAL CORDIAL. GIACOMO CASTELLO, Genoa, Italy.
Filed March 9, 1921. Serial No. 144,500. PUBLISHED JANUARY 9, 1923.

167,719. BELTING, HOSE, AND MACHINERY PACKING. POWER SUPPLY COMPANY, Terre Haute, Ind.
Filed April 2, 1921. Serial No. 145,647. PUBLISHED JANUARY 9, 1923.

167,720. SOAP. LAUNDRENE SOAP CO., Seattle, Wash.
Filed April 12, 1921. Serial No. 146,079. PUBLISHED DECEMBER 26, 1922.

167,721. FURNITURE—NAMELY, CHAIRS, TABLES, AND DESKS. ARTHUR S. HEINEMAN, Los Angeles, Calif.
Filed June 9, 1921. Serial No. 148,885. PUBLISHED JANUARY 30, 1923.

167,722. METAL LATH AND METAL CORNER BEADS. EXPANDED METAL ENGINEERING COMPANY, New York, N. Y.
Filed June 28, 1921. Serial No. 149,741. PUBLISHED JANUARY 30, 1923.

167,723. PHARMACEUTICAL PREPARATIONS FOR DISEASES OF THE BLOOD AND SKIN. SUCHI-WERKE A. G., Vienna, German-Austria.
Filed August 1, 1921. Serial No. 151,235. PUBLISHED JANUARY 3, 1922.

167,724. CERTAIN NAMED HEATING APPARATUS. BUCKWALTER STOVE COMPANY, Royersford, Pa.
Filed August 27, 1921. Serial No. 152,232. PUBLISHED JANUARY 2, 1923.

167,725. FACE CREAMS, FACE POWDERS, HAIR TONIC, BATH CRYSTALS, HAIR AND FLESH TONIC WATER, PERFUMED OILS, PERFUMES, AND PERFUME EXTRACTS. JOHN HERBERT BROWNE, Aldwich, London, England.
Filed September 23, 1921. Serial No. 153,236. PUBLISHED JANUARY 30, 1923.

167,726. PREPARATION FOR COUGHS, COLDS, CROUP, SORE THROAT, WHOOPING COUGH, LA GRIPPE, HOARSENESS, AND BRONCHITIS. DARCEY CECIL YANCEY, Wilson, N. C.
Filed September 29, 1921. Serial No. 153,531. PUBLISHED JANUARY 30, 1923.

167,727. WASHING POWDER FOR LAUNDRY PURPOSES. H. KOHNSTAMM & CO., New York, N. Y., assignor to H. Kohnstamm & Co., Inc., a Corporation of New York.
Filed October 20, 1921. Serial No. 154,369. PUBLISHED JANUARY 2, 1923.

167,728. GAS HEATERS. THE A. H. WOLFF GAS RADIATOR CO., INC., New York, N. Y.
Filed October 20, 1921. Serial No. 154,394. PUBLISHED JANUARY 30, 1923.

167,729. CYCLES. HUMBER LIMITED, Coventry, England.
Filed October 24, 1921. Serial No. 154,512. PUBLISHED JANUARY 30, 1923.

167,730. SHOE POLISH. GEORGE H. CAPEN, doing business as Crow Blacking Co., Canton Junction, Mass.
Filed November 15, 1921. Serial No. 155,394. PUBLISHED JANUARY 23, 1923.

167,731. HIGH-PRESSURE SHEET PACKING CONSISTING ESSENTIALLY OF ASBESTOS, RUBBER, VULCANIZING AGENTS, AND FILLER. THE RAYBESTOS COMPANY, Bridgeport, Conn.
Filed November 25, 1921. Serial No. 155,932. PUBLISHED JANUARY 2, 1923.

167,732. CANNED PEELED TOMATOES AND TOMATO PASTE. RAFFAELE MARTORELLI, New York, N. Y.
Filed December 8, 1921. Serial No. 156,453. PUBLISHED DECEMBER 26, 1922.

167,733. CALCINED GYPSUM, PLASTER OF PARIS, WALL PLASTER, GAUGING PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed February 20, 1922. Serial No. 159,033. PUBLISHED JANUARY 30, 1923.

167,734. MONTHLY PUBLICATION. EDWARD S. ROSENTHAL, doing business as Sportsman's Digest, Cincinnati, Ohio.
Filed August 9, 1922. Serial No. 168,002. PUBLISHED JANUARY 2, 1922.

167,735. LAXATIVES. HENRY K. WAMPOLE AND COMPANY INCORPORATED, Philadelphia, Pa.
Filed August 24, 1922. Serial No. 168,659. PUBLISHED JANUARY 2, 1923.

167,736. INSECTICIDES. WEST DISINFECTING COMPANY, New York, N. Y.
Filed August 25, 1922. Serial No. 168,698. PUBLISHED JANUARY 2, 1923.

167,737. BATHING ALCOHOL FOR EXTERNAL USE. SMITH, KLINE & FRENCH CO., Philadelphia, Pa.
Filed August 26, 1922. Serial No. 168,735. PUBLISHED JANUARY 2, 1923.

167,738. TOILET PREPARATION FOR REFRESHING AND REJUVENATING THE SKIN AND FOR REMOVING WRINKLES. F. R. ARNOLD & CO., New York, N. Y.
Filed August 30, 1922. Serial No. 168,868. PUBLISHED JANUARY 2, 1923.

167,739. PURGATIVES OR LAXATIVE TABLETS. THE SYDNEY ROSS CO., Newark, N. J.
Filed August 30, 1922. Serial No. 168,903. PUBLISHED JANUARY 2, 1923.

167,740. PREPARATION FOR THE TREATMENT OF COUGHS AND COLDS. THE COUGH KING CO., Oakland, Md.
Filed September 1, 1922. Serial No. 168,958. PUBLISHED JANUARY 2, 1923.

167,741. HAIR TONIC. BELMONT L. SHIELDS, doing business as Dandereater Company, Leesville, La.
Filed September 1, 1922. Serial No. 168,985. PUBLISHED JANUARY 2, 1923.

167,742. ELASTIC WEBBINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed September 9, 1922. Serial No. 169,258. PUBLISHED JANUARY 9, 1923.

167,743. CHEMICAL PREPARATION USED TO TREAT SILK TO PROLONG ITS WEARING QUALITY. CARPENTER CHEMICAL COMPANY, INC., New York, N. Y.
Filed September 15, 1922. Serial No. 169,473. PUBLISHED JANUARY 9, 1923.

167,744. REMEDY FOR THE RELIEF OF COUGHS, COLDS, HOARSENESS, AND IRRITATIONS OF THE THROAT AND BRONCHIAL TUBES. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed September 16, 1922. Serial No. 169,526. PUBLISHED JANUARY 9, 1923.

167,745. HAIR DRESSING. MOSES ALEX DICKSON, doing business as Dickson Chemical Co., Eatonton, Ga.
Filed September 16, 1922. Serial No. 169,533. PUBLISHED JANUARY 9, 1923.

167,746. MEDICAL PREPARATION FOR USE IN THE TREATMENT OF ASTHMA. W. M. ROBERTS, Chicago, Ill.
Filed September 16, 1922. Serial No. 169,562. PUBLISHED JANUARY 9, 1923.

167,747. MEDICATED FOOT POWDER FOR HUMAN USE. HARRY RUDNICK, New York, N. Y.
Filed September 16, 1922. Serial No. 169,564. PUBLISHED JANUARY 9, 1923.

167,748. COAL. THE SOUTHERN COAL & COKE CO. Cincinnati, Ohio.
Filed September 18, 1922. Serial No. 169,656. PUBLISHED DECEMBER 19, 1922.

167,749. ELASTIC WEBBINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed October 10, 1922. Serial No. 170,548. PUBLISHED JANUARY 9, 1923.

167,750. SAFETY PINS. THE F. KELLY COMPANY, Derby, Conn.
Filed October 13, 1922. Serial No. 170,686. PUBLISHED JANUARY 9, 1923.

167,751. PISTON-RING EXPANDERS. MANUFACTURER'S MOTOR PRODUCTS CO., Los Angeles, Calif.
Filed August 7, 1922. Serial No. 167,919. PUBLISHED FEBRUARY 6, 1923.

167,752. HAIR NETS. WM. G. HAMILTON, doing business as Hamilton Specialty Company, Circleville, Ohio.
Filed October 17, 1922. Serial No. 170,820. PUBLISHED FEBRUARY 13, 1923.

167,753. MATTRESSES. AUGUSTA BEDDING COMPANY, Augusta, Ga.
Filed October 14, 1922. Serial No. 170,706. PUBLISHED FEBRUARY 13, 1923.

167,754. TITLE OF ITS EDUCATIONAL AND SCIENTIFIC QUARTERLY MAGAZINE. NATIONAL COMMITTEE FOR MENTAL HYGIENE, INC., New York and Albany, N. Y.
Filed October 12, 1922. Serial No. 170,661. PUBLISHED JANUARY 2, 1923.

167,755. GRAND AND UPRIGHT PIANOS, PLAYER PIANOS AND ELECTRICALLY-OPERATED PIANOS. THE SPECTOR & SON PIANO CO. INC., New York, N. Y.
Filed September 18, 1922. Serial No. 170,602. PUBLISHED FEBRUARY 6, 1923.

167,756. PEARL NECKLACES, BRACELETS, SAUTOIRS, EARRINGS, FINGER RINGS, SCARFPINS, AND BROOCHES. HERMAN RALPH LEVIN, Los Angeles, Calif.
Filed October 10, 1922. Serial No. 170,532. PUBLISHED FEBRUARY 6, 1923.

167,757. SOAP. LATHERAL SOAP COMPANY, Tampa, Fla.
Filed October 10, 1922. Serial No. 170,531. PUBLISHED JANUARY 30, 1923.

167,758. PIANO POLISH. ALBERT S. PILCHER, New Orleans, La.
Filed October 9, 1922. Serial No. 170,504. PUBLISHED FEBRUARY 13, 1923.

167,759. CERTAIN NAMED CONSTRUCTION MATERIALS. MAGNETE CORPORATIONS COMPANY, Holland, Mich.
Filed October 9, 1922. Serial No. 170,497. PUBLISHED FEBRUARY 6, 1923.

167,760. CERTAIN NAMED RADIO APPARATUS. THE AMERICAN AUTOMOBILE ACCESSORIES COMPANY, doing business as Crosley Manufacturing Company, Cincinnati, Ohio.
Filed October 9, 1922. Serial No. 170,476. PUBLISHED JANUARY 30, 1923.

167,761. LAUNDRY AND TOILET SOAPS. THE SOPURA SOAP PRODUCTS, INC., New Rochelle, N. Y.
Filed October 5, 1922. Serial No. 170,343. PUBLISHED JANUARY 30, 1923.

167,762. GINGHAMS, CHAMBRAYS, CHEVIOTS, AND KNITTED JERSEY CLOTH, ALL OF THE FOREGOING ARTICLES BEING IN THE FORM OF PIECE GOODS. HOSCH BROTHERS COMPANY, Gainesville, Ga.
Filed October 2, 1922. Serial No. 170,194. PUBLISHED FEBRUARY 13, 1923.

167,763. ROBE CONTAINERS FOR AUTOMOBILES. ROLLUP AUTO-ROBE CORPORATION, New York, N. Y.
Filed September 30, 1922. Serial No. 170,157. PUBLISHED FEBRUARY 6, 1923.

167,764. SLEIGHS. JOHN KRYSIAK, Four Corners, Wyo.
Filed September 30, 1922. Serial No. 170,142. PUBLISHED FEBRUARY 6, 1923.

167,765. SHOE LACES. CORTLAND LINE CO. INC., Cortland, N. Y.
Filed September 26, 1922. Serial No. 169,950. PUBLISHED JANUARY 30, 1923.

167,766. CLEANING COMPOUND WHICH IS OF PARTICULAR USE IN CLEANING PAINTED AND VARNISHED WALLS, WOODWORK, AND FLOORS. A. NEHRING & SONS CO., Chicago, Ill.
Filed September 25, 1922. Serial No. 169,916. PUBLISHED JANUARY 30, 1923.

167,767. OILS FOR HEATING PURPOSES. UNION PETROLEUM COMPANY, Philadelphia, Pa.
Filed December 16, 1922. Serial No. 173,453. PUBLISHED FEBRUARY 13, 1923.

167,768. HANDMADE PAPER. CAMILLE H. BOULIN, doing business as Canson & Montgolfier, New York, N. Y.
Filed December 13, 1922. Serial No. 173,276. PUBLISHED FEBRUARY 13, 1923.

167,769. GASOLINE, MOTOR FUELS, AND LUBRICATING OILS. THE AMERICAN OIL COMPANY, Baltimore, Md.
Filed December 12, 1922. Serial No. 173,222. PUBLISHED FEBRUARY 13, 1923.

167,770. THREADS AND YARNS. THE M. J. GRADY COMPANY, INCORPORATED, New York, N. Y.
Filed December 8, 1922. Serial No. 173,078. PUBLISHED FEBRUARY 13, 1923.

167,771. PILLOWS. JAMES W. BRINE COMPANY, Boston, Mass.
Filed December 1, 1922. Serial No. 172,731. PUBLISHED FEBRUARY 13, 1923.

167,772. MATTRESSES. NEW ENGLAND FIBRE MILLS, Derry, N. H.
Filed November 28, 1922. Serial No. 172,649. PUBLISHED JANUARY 30, 1923.

167,773. MATTRESSES. NEW ENGLAND FIBRE MILLS, Derry, N. H.
Filed November 28, 1922. Serial No. 172,648. PUBLISHED JANUARY 30, 1923.

167,774. COLOR VARNISH. MCPHEE & MCGINNITY COMPANY, Denver, Colo.
Filed November 28, 1922. Serial No. 172,645. PUBLISHED FEBRUARY 13, 1923.

167,775. GASOLINE, KEROSENE, MOTOR OILS, GREASES, AND LUBRICATING OILS. THE ECON OIL & GAS COMPANY, Lima, Ohio.
Filed November 28, 1922. Serial No. 172,641. PUBLISHED FEBRUARY 13, 1923.

167,776. VARNISH. ATLANTIC VARNISH WORKS, INC., Richmond, Va.
Filed November 25, 1922. Serial No. 172,504. PUBLISHED FEBRUARY 13, 1923.

167,777. VARNISH RESTORER. THE CORLEAR PRODUCTS CO., INC., New York, N. Y.
Filed November 24, 1922. Serial No. 172,466. PUBLISHED FEBRUARY 13, 1923.

167,778. SOFT DRINK. THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio.
Filed November 13, 1922. Serial No. 171,955. PUBLISHED FEBRUARY 13, 1923.

167,779. WATCHES, CLOCKS, AND PARTS THEREOF. HOFFMAN BROS. INC., New York, N. Y.
Filed November 10, 1922. Serial No. 171,798. PUBLISHED FEBRUARY 13, 1923.

167,780. CERTAIN NAMED ARTICLES OF JEWELRY. GOLDSMITH, STERN & CO., New York, N. Y.
Filed October 31, 1922. Serial No. 171,418. PUBLISHED FEBRUARY 6, 1923.

167,781. TALKING-MACHINE-RECORD CABINETS, TALKING-MACHINE CABINETS, RADIO CABINETS, AND PLAYER-PIANO-ROLL CABINETS. THE UDELL WORKS, Indianapolis, Ind.
Filed October 23, 1922. Serial No. 171,110. PUBLISHED JANUARY 30, 1923.

167,782. IMITATION PEARLS. JOHN ROSENFELD, Washington, D. C.
Filed October 20, 1922. Serial No. 171,006. PUBLISHED FEBRUARY 6, 1923.

167,783. RADIO RECEIVING SETS. OARD RADIO LABORATORIES, doing business as Atlantic-Pacific Radio Supplies Company, Stockton, Calif.
Filed October 18, 1922. Serial No. 170,894. PUBLISHED JANUARY 30, 1923.

167,784. COMPOUNDS FOR CLEANING, COLORING, AND POLISHING FOOTWEAR. EVERETT AND BARRON COMPANY, Providence, R. I.
Filed July 13, 1922. Serial No. 166,817. PUBLISHED JANUARY 30, 1923.

167,785. NECKLACE CLASPS AND FASTENERS. HARRY C. SCHICK, INC., Newark, N. J.
Filed July 15, 1922. Serial No. 166,960. PUBLISHED FEBRUARY 6, 1923.

167,786. MOTOR OILS, FLOTATION OILS, SOLUBLE OILS FOR COOLING CUTTING TOOLS, BASE OILS, CYLINDER OIL, CUP GREASE, AND TRANSMISSION GREASE. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed July 12, 1922. Serial No. 166,764. PUBLISHED FEBRUARY 13, 1923.

167,787. FABRIC BELTING. STOCKTON COMMISSION CO. INC., New York, N. Y., assignor to Textile Development Corporation, New York, N. Y., a Corporation of Delaware.
Filed June 30, 1922. Serial No. 166,324. PUBLISHED FEBRUARY 6, 1923.

167,788. COMPOSITION OF MATERIAL FOR WALL BOARDS, LINING FOR HOUSES, PLASTER BASES, BOX-MAKING MATERIAL, AND HEAT-INSULATING LUMBER. DAHLBERG & COMPANY, INC., Chicago, Ill.
Filed June 28, 1922. Serial No. 166,175. PUBLISHED FEBRUARY 6, 1923.

167,789. CARBON-TETRACHLORIDE CLEANSING PREPARATION. HOMB PRODUCTS INC., Rahway, N. J.
Filed June 23, 1922. Serial No. 165,952. PUBLISHED JANUARY 30, 1923.

167,790. DOLLIES. SHARON PRESSED STEEL CO., Sharon, Pa.
Filed June 20, 1922. Serial No. 165,765. PUBLISHED FEBRUARY 6, 1923.

167,791. ATHLETIC UNDERWEAR FOR MEN, MADE OF BOTH KNITTED AND TEXTILE FABRIC. EMBASSY MANUFACTURING CORPORATION, New York, N. Y., assignor to J. C. Horowitz, New York, N. Y.
Filed June 14, 1922. Serial No. 165,488. PUBLISHED FEBRUARY 6, 1923.

167,792. TRIPOLI FLOUR. AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed June 7, 1922. Serial No. 165,109. PUBLISHED FEBRUARY 6, 1923.

167,793. PANTS, COATS, VESTS, AND MEN'S OUTER GARMENTS FOR SUMMER WEAR. DAVID HALPERN AND GREENBERG, New York, N. Y.
Filed June 5, 1922. Serial No. 165,020. PUBLISHED FEBRUARY 6, 1923.

167,794. CLOTHING—VIZ, HATS AND CAPS. CHARLES S. MERTON & CO., Rutherford, N. J.
Filed May 31, 1922. Serial No. 164,717. PUBLISHED FEBRUARY 6, 1923.

167,795. INFANTS', CHILDREN'S, AND BOYS' CLOTHING. MELCHER, PARADISE & LANDAU, now by change of name Melcher & Landau, Inc., Chicago, Ill.
Filed May 29, 1922. Serial No. 164,650. PUBLISHED FEBRUARY 6, 1923.

167,796. PREPARATION FOR CLEANING AND POLISHING CERTAIN NAMED GOODS. THE PIONEER SOAP COMPANY, Dayton, Ohio.
Filed May 13, 1922. Serial No. 163,824. PUBLISHED JANUARY 30, 1923.

167,797. PARTLY-PREPARED LEATHER USED IN THE MANUFACTURE OF CERTAIN NAMED FOOTWEAR. THE NICKELSBURG BROTHERS COMPANY, Newark, N. J.
Filed May 12, 1922. Serial No. 163,762. PUBLISHED FEBRUARY 6, 1923.

167,798. WASHING MACHINERY FOR CLOTHES AND LAUNDRY. GEORGE F. MERRELL, INC., Rochester, N. Y.
Filed May 10, 1922. Serial No. 163,641. PUBLISHED FEBRUARY 6, 1923.

167,799. WASHING TABLETS, WASHING COMPOUNDS, ETC. FREDERICK F. HORST, doing business as Northwest Chemical Co., Bellingham, Wash.
Filed May 1, 1922. Serial No. 163,167. PUBLISHED JANUARY 30, 1923.

167,800. LUBRICATING GREASE. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed April 18, 1922. Serial No. 162,517. PUBLISHED FEBRUARY 13, 1923.

167,801. SHOE DRESSING. EX LENT MANUFACTURING Co., Jamaica, N. Y.
Filed April 4, 1922. Serial No. 161,722. PUBLISHED JANUARY 30, 1923.

167,802. BRASSIÈRES. BENJAMIN RUBENSTEIN, doing business as Fair-Sex Brassiere Co., New York, N. Y.
Filed March 23, 1922. Serial No. 161,146. PUBLISHED FEBRUARY 6, 1923.

167,803. SEAMLESS BRASS TUBES, SEAMLESS COPPER TUBES, AND CONDENSER TUBES. BRITISH AMERICAN METALS COMPANY, INC., New York, N. Y.
Filed Mar. 9, 1922. Serial No. 160,392. PUBLISHED FEBRUARY 13, 1923.

167,804. PILLS FOR PIMPLES, BOILS, BLACKHEADS, AND OTHER SKIN DISEASES. NATIONAL DRUG AND CHEMICAL COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada.
Filed August 15, 1922. Serial No. 168,274. PUBLISHED FEBRUARY 13, 1923.

167,805. RECOVERED SALAD OIL USED AS A BASE IN THE MANUFACTURE OF GREASES AND LUBRICATING OIL. F. E. BOOTH CO., San Francisco, Calif.
Filed July 29, 1922. Serial No. 167,551. PUBLISHED FEBRUARY 13, 1923.

167,806. SHOCK ABSORBERS. CROWN SHOCK-ABSORBER CO., Houston, Tex.
Filed July 22, 1922. Serial No. 167,224. PUBLISHED FEBRUARY 20, 1923.

167,807. DYES FOR THE HAIR. GUILLAUME BAILEY, Hendon, London, England.
Filed July 22, 1922. Serial No. 167,218. PUBLISHED FEBRUARY 13, 1923.

167,808. HAIR TONIC. EDWARD J. HATTON, doing business as Hatton Mfg. Co., Chicago, Ill.
Filed July 1, 1922. Serial No. 166,368. PUBLISHED FEBRUARY 13, 1923.

167,809. ANTISEPTIC LINIMENT FOR FIRST-AID TREATMENT OF BURNS, CUTS, BRUISES, INFLAMMATIONS, AND MINOR INJURIES. CLARA M. SHIPMAN, doing business as C. A. Mosso Laboratories, Chicago, Ill.
Filed June 29, 1922. Serial No. 166,265. PUBLISHED FEBRUARY 13, 1923.

167,810. CERTAIN NAMED RADIO APPARATUS. THE RA-DO CORPORATION, Bay City, Mich.
Filed June 23, 1922. Serial No. 165,968. PUBLISHED FEBRUARY 20, 1923.

167,811. TRAILERS. SHARON PRESSED STEEL CO., Sharon, Pa.
Filed June 20, 1922. Serial No. 165,766. PUBLISHED FEBRUARY 13, 1923.

167,812. HAND TRUCKS. SHARON PRESSED STEEL CO., Sharon, Pa.
Filed June 20, 1922. Serial No. 165,764. PUBLISHED FEBRUARY 13, 1923.

167,813. HARD-RUBBER RODS, HARD-RUBBER SHEETS, AND HARD-RUBBER TUBES. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed June 19, 1922. Serial No. 165,655. PUBLISHED FEBRUARY 20, 1923.

167,814. HOSIERY. B. G. BRUMBY, doing business as Dixie Hosiery Mills, Atlanta, Ga.
Filed June 3, 1922. Serial No. 164,860. PUBLISHED DECEMBER 5, 1922.

167,815. CANNED SWEETENED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed May 18, 1922. Serial No. 164,019. PUBLISHED FEBRUARY 20, 1923.

167,816. CANDY AND CANDY FILLER. SUN MAID RAISIN GROWERS, Fresno, Calif.
Filed May 11, 1922. Serial No. 163,706. PUBLISHED FEBRUARY 20, 1923.

167,817. MALTED MILK FOR USE IN MAKING BEVERAGES. JOHN ANCIL HARRIS, Pueblo, Colo.
Filed April 7, 1922. Serial No. 161,885. PUBLISHED FEBRUARY 20, 1923.

167,818. HOSIERY. W. B. DAVIS & SON, Fort Payne, Ala.
Filed March 16, 1922. Serial No. 160,753. PUBLISHED OCTOBER 3, 1922.

167,819. MEDICINAL POWDERS FOR INTERNAL USE. JOSIAH S. TYREE, Washington, D. C.
Filed March 29, 1922. Serial No. 161,460. PUBLISHED FEBRUARY 13, 1923.

167,820. LUBRICATING OILS AND GREASES. MORRIS A. KAHN, San Antonio, Tex.
Filed February 27, 1922. Serial No. 159,873. PUBLISHED FEBRUARY 13, 1923.

167,821. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE MARTIN-SENOUR COMPANY, Chicago, Ill.
Filed November 14, 1921. Serial No. 155,358. PUBLISHED FEBRUARY 13, 1923.

167,822. PETROLEUM SUBSTITUTE FOR TURPENTINE. THE PURE OIL COMPANY, Columbus, Ohio.
Filed November 12, 1921. Serial No. 155,319. PUBLISHED FEBRUARY 13, 1923.

167,823. HIDES, FURS, PRIOR TO, ALSO DURING, ALSO AFTER EITHER TANNING OR DYING, OR BOTH. HAACK & COMPANY, Newark, N. J., and Brooklyn, N. Y.
Filed December 19, 1921. Serial No. 156,901. PUBLISHED FEBRUARY 20, 1923.

167,824. BOILER COMPOUNDS. RIODELA CHEMICAL CO., Wilmington, Del.
Filed October 2, 1922. Serial No. 170,216. PUBLISHED FEBRUARY 13, 1923.

167,825. VEHICLE WHEELS. HALL WHEEL CORPORATION, Philadelphia, Pa.
Filed September 30, 1922. Serial No. 170,137. PUBLISHED FEBRUARY 13, 1923.

167,826. HOSIERY. NORRISTOWN HOSIERY MILLS, Lansdale, Pa.
Filed September 27, 1922. Serial No. 169,983. PUBLISHED FEBRUARY 13, 1923.

167,827. COMMERCIAL TRUCK BODIES; DUMP, MINE, QUARRY, AND INDUSTRIAL CAR BODIES. CONTINENTAL CAR COMPANY OF AMERICA, Louisville, Ky.
Filed September 28, 1922. Serial No. 170,008. PUBLISHED FEBRUARY 20, 1923.

167,828. INDUSTRIAL TRUCKS. ELEVEYOR ELECTRIC INDUSTRIAL TRUCK CO., Brooklyn, N. Y.
Filed September 28, 1922. Serial No. 170,012. PUBLISHED FEBRUARY 13, 1923.

167,829. RADIO APPARATUS. RADIO SPECIALTY CO., New York, N. Y.
Filed September 23, 1922. Serial No. 169,860. PUBLISHED FEBRUARY 20, 1923.

167,830. FASHION PUBLICATION ISSUED TWICE A WEEK. AMOS PARRISH, New York, N. Y.
Filed September 25, 1922. Serial No. 169,923. PUBLISHED FEBRUARY 20, 1923.

167,831. LADIES' UNION SUITS, VESTS, AND PANTS. TEXTILE MANUFACTURING CO., Evansville, Ind.
Filed September 25, 1922. Serial No. 169,937. PUBLISHED FEBRUARY 13, 1923.

167,832. TEXTILE ARTICLES—NAMELY, HOSIERY. THE KINLOCH HOSIERY MILLS, Chicago, Ill.
Filed September 26, 1922. Serial No. 169,956. PUBLISHED FEBRUARY 13, 1923.

167,833. OINTMENT FOR TREATMENT OF SPRAINS, SORE MUSCLES, LUMBAGO, JOINT ACHES, INSECT BITES, BOILS, BURNS, BRUISES, SORES, COLDS, CROUP, AND PNEUMONIA. JOHN J. DRAKE & SON, Amsterdam, N. Y.
Filed September 19, 1922. Serial No. 169,671. PUBLISHED FEBRUARY 13, 1923.

167,834. LINIMENT FOR RHEUMATISM, INFLUENZA, COUGHS, COLDS IN THE CHEST, HEADACHE, EARACHE, NEURALGIA, AND GENERAL PAINS. J. VAN GOODWIN, doing business as J. V. Goodwin & Co., Charlotte, N. C.
Filed September 18, 1922. Serial No. 169,634. PUBLISHED FEBRUARY 20, 1923.

167,835. EYE LIQUID. CHARLES BARTON, doing business as Specialists Supply Company, Honolulu, Hawaii.
Filed September 9, 1922. Serial No. 169,234. PUBLISHED FEBRUARY 13, 1923.

167,836. SALVE OR CREAM RECOMMENDED FOR THE REDUCTION OF ADIPOSE TISSUE. HERBERT OPPENHEIMER, doing business as Slenda Form Laboratories, New York, N. Y.
Filed September 15, 1922. Serial No. 169,495. PUBLISHED FEBRUARY 13, 1923.

167,837. FLUID FOR USE IN ELECTRIC STORAGE BATTERIES. SPITAL BATTERY FLUID CORPORATION, Tuckahoe and New York, N. Y.
Filed September 18, 1922. Serial No. 169,608. PUBLISHED FEBRUARY 13, 1923.

167,838. NASAL LOTION. ABRAM WEBBER, Halifax, Nova Scotia, Canada.
Filed September 18, 1922. Serial No. 169,611. PUBLISHED FEBRUARY 13, 1923.

167,839. HAIR TONIC. EDWARD J. HATTON, doing business as Hatton Mfg. Co., Chicago, Ill.
Filed August 21, 1922. Serial No. 168,528. PUBLISHED FEBRUARY 13, 1923.

167,840. SOLDERING FLUX. PALLADY WELDING & MFG. COMPANY, Seattle, Wash.
Filed August 21, 1922. Serial No. 168,548. PUBLISHED FEBRUARY 13, 1923.

167,841. PREPARATION FOR THE TREATMENT OF DISEASES IN ANIMALS. E. B. FENTON, doing business as Dr. Fenton's Min-er-o Tone Co., Olin, Iowa.
Filed August 29, 1922. Serial No. 168,840. PUBLISHED FEBRUARY 13, 1923.

167,842. PREPARATIONS FOR THE TREATMENT OF PYORRHEA. PYRO-FORM LABORATORIES, Los Angeles, Calif.
Filed September 5, 1922. Serial No. 169,083. PUBLISHED FEBRUARY 13, 1923.

167,843. TABLETS FOR HEADACHES, COLDS, AND GRIPPE. TAB-CO COMPANY, Washington, D. C.
Filed September 7, 1922. Serial No. 169,190. PUBLISHED FEBRUARY 13, 1923.

167,844. WHEAT FLOUR. NOBLESVILLE MILLING CO., Noblesville, Ind.
Filed June 9, 1922. Serial No. 165,239. PUBLISHED JANUARY 30, 1923.

167,845. GELATINE. SOCIETE DES PRODUITS CHIMIQUES COIGNET, Paris, France.
Filed June 6, 1922. Serial No. 165,097. PUBLISHED FEBRUARY 6, 1923.

167,846. CAMP-FIRE STAKES FOR SUPPORTING COOKING AND OTHER UTENSILS. STERLING PRODUCTS CORPORATION, St. Louis, Mo.
Filed June 5, 1922. Serial No. 165,040. PUBLISHED FEBRUARY 20, 1923.

167,847. CANNED FRUITS, CANNED VEGETABLES, AND DRIED FRUIT. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif.
Filed June 3, 1922. Serial No. 164,978. PUBLISHED FEBRUARY 20, 1923.

167,848. POULTRY DRINKING FOUNTAINS, FEEDERS, EXERCISERS, ETC. HOEFT & COMPANY, INC., Chicago, Ill.
Filed May 26, 1922. Serial No. 164,539. PUBLISHED DECEMBER 26, 1922.

167,849. VETERINARY AND POULTRY MEDICINES. JAMES HENRY KNOX, Hardisty, Alberta, Canada.
Filed May 25, 1922. Serial No. 164,505. PUBLISHED FEBRUARY 6, 1923.

167,850. CROWN SEALS AND CLOSURES FOR BOTTLES, CORK AND CORK COMPOSITION CLOSURES AND SEALS FOR BOTTLES. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 23, 1922. Serial No. 164,293. PUBLISHED FEBRUARY 20, 1923.

167,851. MECHANICAL ADVERTISING SIGNS, ILLUMINATED STRUCTURAL SIGNS, PAINTED BOARD SIGNS, AND PAINTED WALL SIGNS. THOMAS CUSACK COMPANY, Chicago, Ill.
Filed May 22, 1922. Serial No. 164,234. PUBLISHED FEBRUARY 6, 1923.

167,852. PERMANENT FOAM FOR PROTECTION AND PREVENTING EVAPORATION OF VOLATILE LIQUIDS. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., assignor to Standard Development Company, Wilmington, Del., a Corporation of Delaware.
Filed May 20, 1922. Serial No. 164,201. PUBLISHED JANUARY 2, 1923.

167,853. CERTAIN NAMED TOILET PREPARATIONS. JOSEPH HENRY KARP, New York, N. Y.
Filed May 15, 1922. Serial No. 163,886. PUBLISHED FEBRUARY 6, 1923.

167,854. SHOE LASTS. FRED W. STUART, Beverly, Mass.
Filed April 28, 1922. Serial No. 163,059. PUBLISHED JANUARY 30, 1923.

167,855. CARTOONS. RICHARD H. MANSFIELD, Cottage City, Md.
Filed April 4, 1922. Serial No. 161,746. PUBLISHED FEBRUARY 20, 1923.

167,856. SMOKING AND CHEWING TOBACCO AND SNUFF. "TURMAC" TURKISH-MACEDONIAN TOBACCO Co., Arnhem, Netherlands.
Filed February 11, 1922. Serial No. 159,226. PUBLISHED JUNE 27, 1922.

167,857. MUSIC SHEETS, COMPLETELY PRINTED BOOKS, PHOTOPRINTS, AND PRINTED POEMS. LOULA K. MCLEAN, doing business as Metouck Specialty Agency, Mount Kisco, N. Y.
Filed February 10, 1922. Serial No. 159,165. PUBLISHED FEBRUARY 20, 1923.

167,858. FIGURE ORNAMENTS FOR DECORATIVE PURPOSES—NAMELY, ORNAMENTAL DOORSTOP AND BOOKRACK END. ADA R. JONES, Bozeman, Mont.
Filed December 15, 1921. Serial No. 156,744. PUBLISHED JANUARY 30, 1923.

167,859. BIWEEKLY MAGAZINE. EDWIN A. SCOTT PUBLISHING CO., New York, N. Y.
Filed December 13, 1921. Serial No. 156,660. PUBLISHED FEBRUARY 20, 1923.

167,860. BOTTLE CAPS. THE BEAD CHAIN MANUFACTURING COMPANY, Bridgeport, Conn.
Filed September 29, 1921. Serial No. 153,497. PUBLISHED DECEMBER 19, 1922.

167,861. PRINTS, POST CARDS, PICTURES, AND PHOTOGRAPHS. WILLARD C. BRINTON, New York, N. Y.
Filed September 8, 1921. Serial No. 152,693. PUBLISHED FEBRUARY 20, 1923.

167,862. ILLUMINATING REFLECTORS. COLE VISIBLE GAS GAUGE COMPANY, Los Angeles, Calif.
Filed August 30, 1921. Serial No. 152,363. PUBLISHED FEBRUARY 6, 1923.

167,863. WOMEN'S BATHING SUITS. SAKS & COMPANY, New York, N. Y.
Filed August 23, 1921. Serial No. 152,106. PUBLISHED MARCH 28, 1922.

167,864. CERTAIN NAMED MEDICINES AND PHARMACEUTICAL PREPARATIONS. MINNEAPOLIS BREWING COMPANY, doing business as Kunz Preparations Co., Minneapolis, Minn.
Filed September 11, 1922. Serial No. 169,315. PUBLISHED FEBRUARY 20, 1923.

167,865. CERTAIN NAMED ELECTRIC APPARATUS. HEINEMANN ELECTRIC COMPANY, Philadelphia, Pa.
Filed September 8, 1922. Serial No. 169,208. PUBLISHED FEBRUARY 6, 1923.

167,866. INSECTICIDE. VERMI-TOX PRODUCTS CO., Holland, Mich.
Filed September 5, 1922. Serial No. 169,104. PUBLISHED FEBRUARY 20, 1923.

167,867. MANUFACTURED STRUCTURAL STEEL FOR BUILDINGS, BRIDGES, TOWERS, FABRICATED TOWERS, STEEL TANKS, AND FABRICATED STEEL PRODUCTS. PITTSBURGH-DES MOINES STEEL COMPANY, Pittsburgh, Pa.
Filed August 31, 1922. Serial No. 168,940. PUBLISHED FEBRUARY 20, 1923.

167,868. SINGLE AND DOUBLE FACED RUBBER SHEETING. THE HOLSTEIN RUBBER COMPANY, Hartford, Conn.
Filed August 25, 1922. Serial No. 168,681. PUBLISHED FEBRUARY 20, 1923.

167,869. CANNED FRUITS AND VEGETABLES. GOLDEN WEST PACKING CO., Los Angeles, Calif.
Filed August 25, 1922. Serial No. 168,679. PUBLISHED FEBRUARY 20, 1923.

167,870. COMPOSITION OF MATERIAL FOR WALL BOARDS, LINING FOR HOUSES, PLASTER BASES, BOX-MAKING MATERIAL, AND HEAT-INSULATING LUMBER IN GENERAL. DAHLBERG & COMPANY, INC., Chicago, Ill.
Filed August 22, 1922. Serial No. 168,575. PUBLISHED FEBRUARY 6, 1923.

167,871. ANTISEPTIC AND COOLING LOTION FOR USE AFTER SHAVING. EDWARD F. KOSS, doing business as Koss Products, Washington, D. C.
Filed August 21, 1922. Serial No. 168,535. PUBLISHED FEBRUARY 6, 1923.

167,872. ASPHALT, CRUDE AND REFINED; ASPHALT CEMENT, ROAD ASPHALT, AND PAVING-BLOCK FILLER. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed August 19, 1922. Serial No. 168,444. PUBLISHED FEBRUARY 20, 1923.

167,873. COMBINED HEATER AND VENTILATOR. THE COLUMBUS HEATING & VENTILATING COMPANY, doing business as Buckeye Blower Company, Columbus, Ohio.
Filed August 11, 1922. Serial No. 168,100. PUBLISHED FEBRUARY 6, 1923.

167,874. HAIR RESTORER. PHILOMENA SCHMALZ & Co., Pitcairn, Pa.
Filed August 9, 1922. Serial No. 168,004. PUBLISHED FEBRUARY 6, 1923.

167,875. PREPARATION FOR CLEANING AND REMOVING STAINS FROM CLOTHING, UPHOLSTERIES, AND OTHER ARTICLES. THE ELECTRO SILICON CO., New York, N. Y.
Filed July 27, 1922. Serial No. 167,461. PUBLISHED FEBRUARY 6, 1923.

167,876. CREAMERY BUTTER. DANIEL LANGFELD, doing business as High Score Products Co., Omaha, Nebr.
Filed July 21, 1922. Serial No. 167,182. PUBLISHED JANUARY 9, 1923.

167,877. CREAMERY BUTTER AND EGGS. DANIEL LANGFELD, doing business as High Score Products Co., Omaha, Nebr.
Filed July 21, 1922. Serial No. 167,181. PUBLISHED JANUARY 9, 1923.

167,878. CHEMICALS USED FOR BLEACHING PURPOSES. JOSEPH HENRY KARP, New York, N. Y.
Filed July 21, 1922. Serial No. 167,178. PUBLISHED FEBRUARY 6, 1923.

167,879. TEA. LAM, GLINES & CO. INC., New York, N. Y.
Filed July 20, 1922. Serial No. 167,138. PUBLISHED FEBRUARY 20, 1923.

167,880. BURNERS FOR LIGHTING, HEATING, AND COOKING PURPOSES. ELEKTRIZITATSWERK LONZA, Gampel and Basel, Switzerland.
Filed July 12, 1922. Serial No. 166,777. PUBLISHED FEBRUARY 6, 1923.

167,881. NONGELATINOUS COMBINATION OF SUBSTANCES IN SOLID FORM FOR USE IN MANUFACTURING ICE CREAM, TO MAKE THE ICE CREAM OF THE PROPER CONSISTENCY AND SMOOTHNESS. CHERRY-BASSETT-WINNER COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed June 27, 1922. Serial No. 166,132. PUBLISHED FEBRUARY 20, 1923.

167,882. MATRIX OR DRY MAT USED IN STEREOTYPING AND ELECTROPLATING. W. B. WHEELER CORPORATION, now by change of name The Flexideal Company, Inc., New York, N. Y.
Filed June 21, 1922. Serial No. 165,840. PUBLISHED FEBRUARY 6, 1923.

167,883. SUBSTITUTE LEATHER. TEXTILEATHER COMPANY, New York, N. Y.
Filed June 20, 1922. Serial No. 165,773. PUBLISHED JANUARY 2, 1923.

167,884. COMPOUND FOR FITTING-IN BEARINGS. ZIP MANUFACTURING CO., Denver, Colo.
Filed July 25, 1922. Serial No. 167,373. PUBLISHED JANUARY 30, 1923.

167,885. COMPOUND FOR HONING LAWN MOWERS AND THE LIKE. ZIP MANUFACTURING CO., Denver, Colo.
Filed July 25, 1922. Serial No. 167,374. PUBLISHED JANUARY 30, 1923.

167,886. CREAMERY BUTTER. KIRSCHBRAUN & SONS, INC., Omaha, Nebr.
Filed August 4, 1922. Serial No. 167,819. PUBLISHED FEBRUARY 6, 1923.

167,887. COTTON PIECE GOODS. ABERFOYLE MFG. CO., Chester, Pa.
Filed August 9, 1922. Serial No. 167,968. PUBLISHED FEBRUARY 13, 1923.

167,888. FEED FOR OXEN. THE STURGES COMPANY, Meridian, Miss.
Filed August 10, 1922. Serial No. 168,076. PUBLISHED FEBRUARY 6, 1923.

167,889. HORSE AND MULE FEED, COW FEED, CATTLE FEED, AND POULTRY FEED. THE STURGES COMPANY, Meridian, Miss.
Filed August 10, 1922. Serial No. 168,077. PUBLISHED FEBRUARY 6, 1923.

167,890. BRAKE LININGS. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed August 11, 1922. Serial No. 168,092. PUBLISHED FEBRUARY 6, 1923.

167,891. FAN BELTS. THE DAYTON RUBBER MANUFACTURING CO., Dayton, Ohio.
Filed August 11, 1922. Serial No. 168,104. PUBLISHED JANUARY 30, 1923.

167,892. SILK, SILK AND COTTON MIXED, AND COTTON PIECE GOODS. FRIED, MENDELSON & CO., New York, N. Y.
Filed August 12, 1922. Serial No. 168,148. PUBLISHED FEBRUARY 13, 1923.

167,893. NAILS. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa; New York, N. Y.; Worcester, Mass.
Filed August 23, 1922. Serial No. 168,595. PUBLISHED FEBRUARY 13, 1923.

167,894. CERTAIN NAMED HAIR GOODS. HYMAN & OPPENHEIM, New York, N. Y.
Filed July 24, 1922. Serial No. 167,301. PUBLISHED FEBRUARY 13, 1923.

167,895. PASTE PAINTS. THE HALOVE COMPANY, INC., New York, N. Y.
Filed August 23, 1922. Serial No. 168,609. PUBLISHED FEBRUARY 13, 1923.

167,896. WHITE LEAD. JAMES A. MCCAFFERTY & SONS MANUFACTURING COMPANY, INC., Brooklyn, N. Y.
Filed August 24, 1922. Serial No. 168,645. PUBLISHED FEBRUARY 13, 1923.

167,897. SCOURING UTENSILS. THE CHORE UTENSILS CORPORATION OF AMERICA, Orange, N. J.
Filed August 25, 1922. Serial No. 168,670. PUBLISHED JANUARY 30, 1923.

167,898. MEN'S ATHLETIC UNDERWEAR. NANTEX MFG. CO. INC., New York, N. Y.
Filed August 25, 1922. Serial No. 168,686. PUBLISHED FEBRUARY 6, 1923.

167,899. WHEELBARROWS AND PARTS THEREOF. THE KILBOURNE & JACOBS MANUFACTURING COMPANY, Columbus, Ohio.
Filed August 29, 1922. Serial No. 168,845. PUBLISHED FEBRUARY 6, 1923.

167,900. RUG AND CARPET CLEANING COMPOUND AND HAND CLEANSER. VAPO PRODUCTS COMPANY, INC., Sandpoint, Idaho.
Filed September 6, 1922. Serial No. 169,145. PUBLISHED JANUARY 30, 1923.

167,901. CLEANSING POWDER. GLENCO CHEMICAL CO., Troy, N. Y.
Filed September 12, 1922. Serial No. 169,357. PUBLISHED JANUARY 30, 1923.

167,902. CLOTHES RACKS FOR DRYING CLOTHES. FRANK L. POLLARD CO. INC., Oakland, Calif.
Filed September 12, 1922. Serial No. 169,374. PUBLISHED FEBRUARY 6, 1923.

167,903. PHONOGRAPH-RECORD RENEWER CLEANING PREPARATION. RU-TONE PRODUCTS CO., Cascade, Mont.
Filed August 29, 1922. Serial No. 168,851. PUBLISHED JANUARY 2, 1923.

167,904. DYES. L. L. BRIDEN & CO., Boston, Mass.
Filed August 30, 1922. Serial No. 168,871. PUBLISHED JANUARY 30, 1923.

167,905. LEATHER FILLER. THE CHAMPION FIBRE COMPANY, Canton, N. C.
Filed August 31, 1922. Serial No. 168,917. PUBLISHED JANUARY 2, 1923.

167,906. PREPARATION FOR THE HAIR AND BEARD. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed August 31, 1922. Serial No. 168,952. PUBLISHED JANUARY 30, 1923.

167,907. PETROLEUM JELLY AND PREPARATIONS THEREOF. CHESEBROUGH MANUFACTURING CO., CONSOLIDATED, New York, N. Y.
Filed September 1, 1922. Serial No. 168,956. PUBLISHED JANUARY 30, 1923.

167,908. ASPHALT SHINGLES. THE LEHON COMPANY, Chicago, Ill.
Filed September 1, 1922. Serial No. 168,975. PUBLISHED JANUARY 9, 1923.

167,909. PREPARATION FOR THE TREATMENT OF ASTHMA. CHARLES R. BUNDY, doing business as The Asthma-don Co., Detroit, Mich.
Filed September 2, 1922. Serial No. 168,997. PUBLISHED JANUARY 30, 1923.

167,910. SEWER PIPE AND TILE EXCEPT METAL AND PORCELAIN. TROPICO POTTERIES, INC., Glendale, Calif.
Filed September 5, 1922. Serial No. 169,097. PUBLISHED JANUARY 30, 1923.

167,911. CATHARTIC AND LAXATIVE PREPARATION. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed September 7, 1922. Serial No. 169,153. PUBLISHED JANUARY 9, 1923.

167,912. MEDICINAL PREPARATION OF MAGNESIUM AND CALCIUM CARBONATES COMBINED WITH CARMINATIVES, CORRECTIVES, AND STOMACHICS. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed September 7, 1922. Serial No. 169,154. PUBLISHED JANUARY 9, 1923.

167,913. COLD CREAM. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed September 7, 1922. Serial No. 169,156. PUBLISHED JANUARY 9, 1923.

167,914. CANDY LAXATIVE; OINTMENTS FOR SOOTHING AND HEALING SORES, ULCERS, COLD SORES, ABRASIONS AND CUTS, ITCHING, AS IN PILES, ECZEMA, SALT RHEUM; RED-CLOVER EXTRACTS FOR TONICS AND ALTERATIVES. EARLE J. NEEDHAM, doing business as D. Needham's Sons, Chicago, Ill.
Filed September 7, 1922. Serial No. 169,178. PUBLISHED JANUARY 30, 1923.

167,915. OILS FOR TREATING ARTIFICIAL AND REAL LEATHER. THE PIERCE COMPANY, East Rochester, N. Y.
Filed September 8, 1922. Serial No. 169,224. PUBLISHED JANUARY 2, 1923.

167,916. CARBON REMOVER. N-D-N PRODUCTS CO., Buffalo, N. Y.
Filed September 9, 1922. Serial No. 169,255. PUBLISHED JANUARY 9, 1923.

167,917. BAY RUM. TOILET PRODUCTS "A" COMPANY, New York, N. Y.
Filed September 8, 1922. Serial No. 169,230. PUBLISHED JANUARY 30, 1923.

167,918. CLEANING COMPOUND FOR CARPETS, FABRICS AND WOODWORK, AND HAND SOAP. DONALD F. BROWNEWELL, Canton, Ohio.
Filed September 11, 1922. Serial No. 169,278. PUBLISHED JANUARY 2, 1923.

167,919. HAIR TONIC. F. C. HAYES, Newport, R. I.
Filed September 11, 1922. Serial No. 169,301. PUBLISHED JANUARY 9, 1923.

167,920. CLEANING PREPARATION FOR CERTAIN NAMED GOODS. NORMAN L. WILLS, New York, N. Y.
Filed September 11, 1922. Serial No. 169,341. PUBLISHED JANUARY 2, 1923.

167,921. CATALOGUES PUBLISHED SEMIANNUALLY. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 13, 1922. Serial No. 169,424. PUBLISHED JANUARY 30, 1923.

167,922. COAL-TAR DISINFECTANT. BERTOLAIA & GOEDERT, New York, N. Y.
Filed September 15, 1922. Serial No. 169,472. PUBLISHED JANUARY 9, 1923.

167,923. LADDERS. THE GOSHEN MANUFACTURING CO., Goshen, Ind.
Filed October 3, 1922. Serial No. 170,245. PUBLISHED FEBRUARY 20, 1923.

167,924. RAW HAIR AND PREPARED HAIR STOCK. HYMAN & OPPENHEIM, New York, N. Y.
Filed October 4, 1922. Serial No. 170,293. PUBLISHED FEBRUARY 20, 1923.

167,925. FURNITURE POLISH. HELEN ASHER, doing business as Francis Lee & Company, San Francisco, Calif.
Filed October 9, 1922. Serial No. 170,603. PUBLISHED FEBRUARY 13, 1923.

167,926. PURE WHITE LEAD. THE EAGLE PICHER LEAD COMPANY, Cincinnati, Ohio.
Filed October 16, 1922. Serial No. 170,758. PUBLISHED FEBRUARY 13, 1923.

167,927. ELECTRICALLY-OPERATED HEADLIGHT DIMMERS. THE DIMIT CO., INC., Baltimore, Md.
Filed October 24, 1922. Serial No. 171,121. PUBLISHED FEBRUARY 20, 1923.

167,928. READY-MIXED PAINTS, VARNISH STAINS, AND PAINT ENAMELS. CON-FERRO PAINT & VARNISH CO., St. Louis, Mo.
Filed October 27, 1922. Serial No. 171,258. PUBLISHED FEBRUARY 13, 1923.

167,929. DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. MONROE, LEDERER & TAUSSIG, Philadelphia, Pa.
Filed October 28, 1922. Serial No. 171,336. PUBLISHED FEBRUARY 13, 1923.

167,930. MEAT PRESERVATIVE, FLAVORING, AND COLORING COMPOUND IN LIQUID FORM. E. L. KARNES, doing business as The Puritol Company, Kansas City, Mo.
Filed October 30, 1922. Serial No. 171,389. PUBLISHED FEBRUARY 13, 1923.

167,931. ELECTRIC TAIL LIGHTS, ELECTRIC STOP LIGHTS, ELECTRIC BACKING LIGHTS, ELECTRIC DIRECTION SIGNALS, ALL DESIGNED FOR USE ON AUTOMOBILES AND SIGNAL SYSTEMS IN WHICH SUCH LIGHTS AND SIGNALS ARE COMBINED AND PARTS OF SUCH SIGNALS AND SYSTEMS. NEW ENGLAND PRESSED STEEL COMPANY, Natick, Mass.
Filed October 31, 1922. Serial No. 171,430. PUBLISHED FEBRUARY 20, 1923.

167,932. DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. MONROE, LEDERER & TAUSSIG, Philadelphia, Pa.
Filed November 10, 1922. Serial No. 171,811. PUBLISHED FEBRUARY 13, 1923.

167,933. DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. MONROE, LEDERER & TAUSSIG, Philadelphia, Pa.
Filed November 10, 1922. Serial No. 171,812. PUBLISHED FEBRUARY 13, 1923.

167,934. AMMONIA. C. M. KIMBALL COMPANY, Winthrop, Mass.
Filed November 14, 1922. Serial No. 172,000. PUBLISHED FEBRUARY 20, 1923.

167,935. A MATRIX OR DRY MAT USED IN STEREOTYPING AND ELECTROPLATING. W. B. WHEELER CORPORATION, now by change of name The Flexideal Company, Inc., New York, N. Y.
Filed Nov. 20, 1922. Serial No. 172,309. PUBLISHED FEBRUARY 20, 1923.

167,936. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed December 19, 1922. Serial No. 173,559. PUBLISHED FEBRUARY 20, 1923.

167,937. LINIMENT AND ANTISEPTIC FOR EXTERNAL APPLICATION IN THE TREATMENT OF RHEUMATISM, BLOOD POISON, INFECTIONS, BOILS, TOOTHACHE, HEADACHE, CATARRH OF THE NOSE, SKIN ERUPTIONS, AND SORENESS OF THE JOINTS AND MUSCLES. S. A. LATHAM, Andalusia, Ala.
Filed November 27, 1922. Serial No. 172,602. PUBLISHED FEBRUARY 20, 1923.

167,938. ELECTRIC STOVES AND ELECTRIC RANGES. GEO. D. ROPER CORPORATION, Rockford, Ill.
Filed November 6, 1922. Serial No. 171,655. PUBLISHED FEBRUARY 6, 1923.

167,939. HAIR TONIC. MARIA A. SCHAEFER, New York, N. Y.
Filed November 11, 1922. Serial No. 171,870. PUBLISHED FEBRUARY 20, 1923.

167,940. SALVE, OINTMENT, AND LINIMENT FOR CERTAIN NAMED PURPOSES. JOHN D. KING, SR., Charleston, W. Va.
Filed November 13, 1922. Serial No. 171,928. PUBLISHED FEBRUARY 20, 1923.

167,941. [WITHDRAWN.]

167,942. TOY HORSES. THE INTERNATIONAL TOY COMPANY, LIMITED, Montreal, Quebec, Canada.
Filed November 14, 1922. Serial No. 171,997. PUBLISHED FEBRUARY 20, 1923.

167,943. ROOF PAINT AND READY-MIXED PAINT. FRIES, BEALL & SHARP CO., INC., Washington, D. C.
Filed September 18, 1922. Serial No. 169,584. PUBLISHED FEBRUARY 13, 1923.

167,944. STOVE BOARDS AND CONDUCTOR PIPE. FRIES, BEALL & SHARP CO., INC., Washington, D. C.
Filed September 18, 1922. Serial No. 169,585. PUBLISHED FEBRUARY 13, 1923.

167,945. IRONING BOARDS, IRONING-BOARD STANDS, AND DRYING RACKS. THE UDELL WORKS, Indianapolis, Ind.
Filed September 18, 1922. Serial No. 169,610. PUBLISHED FEBRUARY 13, 1923.

167,946. FUR SKINS DRESSED AND DYED. HERMAN BASCH & CO., INC., New York and Brooklyn, N. Y.
Filed September 21, 1922. Serial No. 169,752. PUBLISHED FEBRUARY 6, 1923.

167,947. LIQUID SHAVING SOAPS. THE STOMATOL COMPANY OF AMERICA, Highland Park, Ill.
Filed September 23, 1922. Serial No. 169,878. PUBLISHED JANUARY 30, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

167,948. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed Mar. 27, 1923. Serial No. 178,088.

BURTON'S
IRISH POPLIN

Particular description of goods.—Cotton Piece Goods.
Claims use since 1893.

167,949. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Jan. 8, 1923. Serial No. 174,293.



Particular description of goods.—Soap.
Claims use since Nov. 30, 1887.

167,950. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed Dec. 15, 1922. Serial No. 173,373.

THE TEXAS COMPANY

Particular description of goods.—Petroleum Jelly and Petrolatum.
Claims use since Apr. 7, 1902.

167,951. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif. Filed Dec. 12, 1922. Serial No. 173,260.

VAN CAMP'S

Particular description of goods.—Canned Fish.
Claims use since 1914.

167,952. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) E. CLINTON & CO. INC., Philadelphia, Pa. Filed May 18, 1921. Serial No. 147,859.

RUBBERBILT

Particular description of goods.—Hair, Nail, Tooth, Flesh, Paint, Scrubbing, and Sweeping Brushes.
Claims use since Jan. 1, 1918.

167,953. (CLASS 39. CLOTHING.) THE RUSSELL MANUFACTURING CO., Middletown, Conn. Filed Sept. 27, 1921. Serial No. 153,409.

Bitherway

Particular description of goods.—Garters.
Claims use since May 13, 1921.

167,954. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PNEUMATIC CUSHION COMPANY, San Francisco, Calif. Filed Nov. 9, 1921. Serial No. 155,234.

GRÜSS

Particular description of goods.—Air Springs for Vehicles.
Claims use since on or about June 1, 1914.

167,955. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITHFIELD'S PURE FOOD COMPANY, Rochester, N. Y. Filed Dec. 29, 1921. Serial No. 157,282.

Smithfield's

Particular description of goods.—Canned Fruits and Vegetables, Fruit and Vegetable Sauces, Jams, and Jellies.
Claims use since 1916.

167,956. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) INTERNATIONALA LIMITED, Chicago, Ill. Filed Apr. 29, 1922. Serial No. 163,086.

LEM'N'OLIVE

Particular description of goods.—Soap.
Claims use since Mar. 17, 1922.

167,957. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE VICTOR-AMERICAN FUEL COMPANY, Portland, Me., and Denver, Colo. Filed May 24, 1922. Serial No. 164,475.

CHANDLER

Particular description of goods.—Coal.
Claims use since Apr. 22, 1916.

167,958. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE MILLER AUTO ACCESSORIES CO., Cleveland, Ohio. Filed Sept. 22, 1922. Serial No. 169,817.

MILLER'S
AUTO ACCESSORIES

Particular description of goods.—Automobile Tops, Windshields, Fenders, Seats, Wheels, Bodies, and Parts Thereof.
Claims use since about Feb. 1, 1921.

167,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTHERN OIL & FEED MILLS, INC., Petersburg, Va. Filed Sept. 29, 1922. Serial No. 170,100.

Gubernut

Particular description of goods.—Stock Feed.
Claims use since July, 1916.

167,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Oct. 18, 1922. Serial No. 170,892.



Particular description of goods.—Biscuits and Crackers.
Claims use since 1903.

167,961. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Nov. 18, 1922. Serial No. 172,213.

THE FIVE FOOT SHELF OF BOOKS

Particular description of goods.—Series of Books.
Claims use since 1909.

167,962. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Nov. 18, 1922. Serial No. 172,214.

THE HARVARD CLASSICS

Particular description of goods.—Series of Books.
Claims use since 1909.

167,963. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONTEVALLO - STRAVEN COAL CO., Straven, Ala. Filed Nov. 27, 1922. Serial No. 172,608.

MONTEVALLO-STRAVEN

Particular description of goods.—Coal.
Claims use since about 1910.

167,964. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE UNION FORK AND HOE COMPANY, Columbus, Ohio. Filed Apr. 22, 1922. Serial No. 162,786.

SPEEDY
CULTIVATOR

Particular description of goods.—Cultivators.
Claims use since Mar. 8, 1922.

167,965. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVER READY AUTO JACK CORPORATION, Beacon, N. Y. Filed May 8, 1922. Serial No. 163,505.

Ever Ready

Particular description of goods.—Jacks for Lifting Automobiles and Other Vehicles.
Claims use since Feb. 27, 1922.

167,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ASSOCIATED FRUIT CO., Miami, Fla. Filed May 22, 1922. Serial No. 164,213.

Superior

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Sept. 1, 1921.

167,967. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SHOE MACHINERY AND TOOL COMPANY, St. Louis, Mo. Filed July 12, 1922. Serial No. 166,761.

AMERICAN

Particular description of goods.—Shoe-Repairing Machines—Namely, Finishing Machines, Roller Molders, Rollers, Fudges or Stitch-Impression Machines, Combination Skivers and Sole Cutters, Heel Reducers and Removers, Skiving Machines, Jack and Last Outfits and Sole Cutter, Rough-Rounder and Stripping Machines; and Tire or Vulcanizing Machinery—Namely, Fabric-Skiving Machines and Bead Cutters.
Claims use since Dec. 1, 1911.

167,968. (CLASS 39. CLOTHING.) LARNED, CARTER & COMPANY, Detroit, Mich. Filed Sept. 25, 1922. Serial No. 169,910.

SNAG PROOF

Particular description of goods.—Overalls, Pants, and Coats.
Claims use since 1907.

167,969. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORRIS, INC., Atlanta, Ga. Filed Oct. 19, 1922. Serial No. 170,946.

The Variety Package

Particular description of goods.—Candy.
Claims use since Mar. 2, 1914.

167,970. (CLASS 25. LOCKS AND SAFES.) MILLER LOCK COMPANY, Frankford, Philadelphia, Pa. Filed Oct. 26, 1922. Serial No. 171,229.

MILLER

Particular description of goods.—Locks.
Claims use since 1916.

167,971. (CLASS 12. CONSTRUCTION MATERIALS.) WHEELING METAL & MANUFACTURING CO., Wheeling and Moundsville, W. Va. Filed Nov. 7, 1922. Serial No. 171,716.

LEADCLAD

Particular description of goods.—Flat Steel Sheets for Manufacturing Skylight Frames, Corrugated and Crimped Roofing, Roll Roofing; Boxed Steel Plates for Valleys, Gutters, and Flashings Used in the Construction of Residences and Buildings; Conductor Pipe, Eaves Trough, Ridge Roll for Finishing the Combs of Roofs on Buildings, Cornices, Skylights, Ventilators, Ceiling and Side Walls, Stamped Siding for Buildings, Miters for Connecting Up the Corners of Gutters and Eaves Troughs, Elbows for Conductor Pipes Used in the Construction of Buildings.
Claims use since January, 1916.

167,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELYSEE OLIVE OIL COMPANY, INC., New York, N. Y. Filed Nov. 13, 1922. Serial No. 171,909.

RIVOLI

The lines shown on the drawing indicate shading.
Particular description of goods.—Food Oils.
Claims use since Apr. 4, 1921.

167,973. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDWARD F-G. GIBBS, doing business as Rigid Tool Holder Company, Washington, D. C. Filed Nov. 16, 1922. Serial No. 172,089.

RIGID

Particular description of goods.—Metal-Working-Machine Tools and Tool Holders.
Claims use since May 28, 1918.

167,974. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ERNEST W. HORNUNG, doing business as The Hubbell Manufacturing Co., Cleveland, Ohio. Filed Nov. 29, 1922. Serial No. 172,675.

HUBBELL GLASS WINDOWS

Particular description of goods.—Curtain Lights for Automobiles and Windshields for Automobiles.
Claims use since November, 1919.

167,975. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DAVY BROTHERS LIMITED, Sheffield, England. Filed Dec. 1, 1922. Serial No. 172,797.

"DAVY"

Particular description of goods.—Forging Presses, Rolling Mills, Steelworks Machinery, Hydraulic Machinery, and Parts Thereof.
Claims use since Nov. 22, 1918.

167,976. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Mar. 2, 1922. Serial No. 160,074.

WEARWELL

Particular description of goods.—Hair Nets and Veils.
Claims use since about August, 1914.

167,977. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES A. WAYBORN, Brooklyn, N. Y. Filed Dec. 15, 1921. Serial No. 156,770.

Prune d'Agen

Particular description of goods.—Prunes.
Claims use since on or about Nov. 15, 1921.

167,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RONZONI MACARONI COMPANY, INC., Long Island City, N. Y. Filed Dec. 7, 1921. Serial No. 156,416.

EMANUELE RONZONI

Particular description of goods.—Alimentary Paste Products.
Claims use since May 1, 1919.

167,979. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SLIDING VALVES, INCORPORATED, Jersey City, N. J. Filed Dec. 2, 1921. Serial No. 156,201.

FLAT PLUG

Particular description of goods.—Metal Valves for General Use.
Claims use since Sept. 16, 1921.

167,980. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn. Filed Nov. 22, 1921. Serial No. 155,758.

STRATFORD SILVER PLATE CO.

Particular description of goods.—Silver-Plated Flat Tableware.
Claims use since on or about Sept. 30, 1921.

167,981. (CLASS 39. CLOTHING.) BARRON, ANDERSON Co., Boston, Mass. Filed Aug. 4, 1921. Serial No. 151,848.

STAPLETON

Trade-mark consists of the word "Stapleton."
Particular description of goods.—Men's Suits and Overcoats.
Claims use since Feb. 1, 1921.

167,982. (CLASS 39. CLOTHING.) COHEN & LEVINSON, New York, N. Y. Filed July 13, 1921. Serial No. 150,308.

Sealect

Particular description of goods.—Hosiery; Knitted Underwear for Men, Women, and Children.
Claims use since July 8, 1921.

167,983. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STRAUS-FRANK COMPANY, San Antonio, Tex. Filed Jan. 11, 1923. Serial No. 174,494.

EZY-FIT

Particular description of goods.—Top Re-coverings Cut and Sewed Ready for Application to Vehicles and Seat Covers Ready for Application to the Seats of Vehicles.
Claims use since about Sept. 1, 1921.

167,984. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM R. DORSEY, New York, N. Y. Filed Jan. 20, 1923. Serial No. 174,820.

DORSEY'S

Particular description of goods.—Cigarettes.
Claims use since Nov. 15, 1921.

167,985. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) STARK BROS. NURSERIES & ORCHARDS CO., Louisiana, Mo. Filed Feb. 17, 1923. Serial No. 176,225.

STARK SEEDS PAY YOU

Particular description of goods.—Garden Seeds.
Claims use since about April, 1921.

167,986. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE ALLEN AUTO SPECIALTY CO. INC., New York, N. Y. Filed Dec. 14, 1922. Serial No. 173,315.

ALLEN SHUTTER FRONT

Particular description of goods.—Shutter for Automobile Radiators.
Claims use since Nov. 1, 1921.

167,987. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) KOHLER & CAMPBELL, INCORPORATED, New York, N. Y. Filed Dec. 29, 1922. Serial No. 173,970.

KOHLER & CAMPBELL

Particular description of goods.—Upright and Grand Pianos and Player Pianos.
Claims use since 1897.

167,988. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) REES MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Jan. 8, 1923. Serial No. 174,152.

REES

Particular description of goods.—Safety Mirrors.
Claims use since Aug. 15, 1921.

167,989. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) G. S. BLAKESLEE & Co., Cicero, Ill. Filed Jan. 29, 1923. Serial No. 175,235.

NIAGARA

Particular description of goods.—Machines for Washing Dishes and Metal Articles.
Claims use since Sept. 30, 1912.

167,990. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio. Filed Feb. 3, 1923. Serial No. 175,464.

Quick-Set

Particular description of goods.—Metal-Working Small Tools—Namely, Boring Drills and Bits of All Kinds, Reamers, Sockets, Drill Holders, Drill Chucks, Arbors, Mandrels, Taps, Mills, Milling Cutters, Countersinks, and Counterbores.
Claims use since Feb. 1, 1922.

167,991. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) W. H. BAGSHAW CO., Lowell, Mass. Filed Mar. 23, 1923. Serial No. 177,893.

PETMECKY

Particular description of goods.—Talking-Machine Needles.
Claims use since January, 1913.

167,992. (CLASS 39. CLOTHING.) FRANCES ROSENBERG, New York, N. Y. Filed Apr. 10, 1922. Serial No. 162,057.

SLIMFORM

Particular description of goods.—Ladies' Bloomers, Brassières, Step-Ins, Union Suits, and Combinations.
Claims use since Feb. 1, 1922.

167,993. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, Oakland, Calif. Filed Apr. 7, 1922. Serial No. 161,911.

SUTTER MADE

Particular description of goods.—Canned Fruits.
Claims use since Mar. 1, 1922.

167,994. (CLASS 39. CLOTHING.) H. R. MALLINSON, & Co. INC., New York, N. Y. Filed Apr. 7, 1922. Serial No. 161,892.

CORSICAN STRIPES

Particular description of goods.—Scarfs and Mufflers of Knitted and Woven Silk and Fiber Silk.
Claims use since December, 1921.

167,995. (CLASS 39. CLOTHING.) CAROLINE G. BROWN, New York, N. Y. Filed Apr. 1, 1922. Serial No. 161,614.

PHYSIOLOGICAL

Particular description of goods.—Corsets.
Claims use since June 1, 1921.

167,996. (CLASS 39. CLOTHING.) THE WARREN FEATHERBONE COMPANY, Three Oakes, Mich. Filed Mar. 25, 1922. Serial No. 161,290.

"Warren's"

Particular description of goods.—Bust Forms and Extenders, Bustles, Brassières, Collar Supports, Hoop-Skirt Foundations, Girdles, Negligee Girdles, and Guimpes.
Claims use since Feb. 24, 1909.

167,997. (CLASS 37. PAPER AND STATIONERY.) ALLAN & GRAY, New York, N. Y. Filed Mar. 21, 1922. Serial No. 160,986.

AG Mellolone

Particular description of goods.—Cardboard and Fine Correspondence Paper and Envelopes.
Claims use since Mar. 1, 1922.

167,998. (CLASS 2. RECEPTACLES.) THE RIKE FOLDING BOX COMPANY, Dayton, Ohio. Filed Feb. 27, 1922. Serial No. 159,883.

SealRite

Particular description of goods.—Paper Garment Bags.
Claims use since Nov. 15, 1921.

167,999. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE URBANE E. ROGERS COMPANY, Dallas, Tex. Filed Feb. 24, 1922. Serial No. 159,767.

DISHWASH

Particular description of goods.—Soap.
Claims use since Feb. 11, 1922.

168,000. (CLASS 39. CLOTHING.) OSHKOSH OVERALL COMPANY, Oshkosh, Wis. Filed Jan. 21, 1922. Serial No. 158,250.

OSHKOSH B'GOSH
Mill Shrunk — No Fade

Particular description of goods.—Overalls, Work Shirts, and Work Jackets.
Claims use since 1912.

168,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUIR CHEMICAL COMPANY, Bayard, Nebr. Filed Dec. 28, 1921. Serial No. 157,211.

C-U-I-R

Particular description of goods.—Lotion for the Treatment of Eczema, Blackheads, Pimples, Itch, Poison Ivy, Ringworm, Erysipelas, and Mosquito Bites, and a Mange Remedy.
Claims use since June, 1921.

168,002. (CLASS 39. CLOTHING.) GAYHART MILLINERY CORPORATION, Milwaukee, Wis. Filed Dec. 20, 1921. Serial No. 156,964.

Gayhart

Particular description of goods.—Models (Pattern Hats, Trimmed Hats, Banded Hats, Ready-to-Wear Hats, Untrimmed Shapes, and Children's Hats).
Claims use since January, 1920.

168,003. (CLASS 39. CLOTHING.) E. J. WILE & Co., New York, N. Y. Filed Dec. 17, 1921. Serial No. 156,875.

Shaggie

Particular description of goods.—Coats and Suits.
Claims use since Nov. 15, 1921.

168,004. (CLASS 2. RECEPTACLES.) MERRIAM MANUFACTURING COMPANY, Durham, Conn. Filed Dec. 16, 1921. Serial No. 156,797.

Merriam

Particular description of goods.—Security, Office, Bond, Safe-Deposit, and Hardware-Dealer's Tin Boxes.
Claims use since on or about Mar. 8, 1921.

168,005. (CLASS 39. CLOTHING.) LEVI & SELIGMAN, INC., New York, N. Y. Filed Dec. 14, 1921. Serial No. 156,694.

LeSilk

Particular description of goods.—Underwear of Knitted Fabric, Hosiery, and Sweaters for Men, Women, Children, and Infants; Capes and Dresses for Women, Children, and Infants; Knitted Caps for Women, Children, and Infants; Neckties and Scarfs for Men, Women, and Children.
Claims use since June 15, 1921.

168,006. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) METALLIC INDUSTRIES, INC., St. Louis, Mo. Filed Nov. 28, 1921. Serial No. 156,009.

TEETER GO ROUND

Particular description of goods.—Teeters.
Claims use since Aug. 6, 1920.

168,007. (CLASS 15. OILS AND GREASES.) SUN COMPANY, now by change of name, Sun Oil Company, Philadelphia, Pa. Filed May 26, 1921. Serial No. 148,303.

LINWOOD

Particular description of goods.—Lubricating Oils.
Claims use since about Jan. 30, 1911.

168,008. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading, Pa. Filed May 16, 1921. Serial No. 147,808.

Shadow Hem

Particular description of goods.—Petticoats and Ladies' and Misses' Knitted and Silk Underwear.
Claims use since Mar. 18, 1921.

168,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. & H. TURNER LIMITED, Wallington, England, and Helmond, Netherlands. Filed May 14, 1921. Serial No. 147,746.

Helm

Particular description of goods.—Cocoa and Chocolate.
Claims use since Nov. 16, 1920.

168,010. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHRISTIAN FOSS, Tacoma, Wash. Filed Feb. 16, 1920. Serial No. 128,432.

CHECKERLESS

Particular description of goods.—Checkerboards.
Claims use since Dec. 8, 1919.

168,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RASMUS J. HALSETH, Madison, S. Dak. Filed Jan. 9, 1919. Serial No. 115,064.

SCALP-EASE

Particular description of goods.—Medicinal Compound for Treating the Scalp.
Claims use since Dec. 11, 1918.

168,012. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) COLEMAN LAMP CO., Wichita, Kans. Filed Jan. 5, 1923. Serial No. 174,100.

Coleman

Particular description of goods.—Self-Heating Gasoline Sadirons and Parts Therefor.
Claims use since on or about Mar. 1, 1922.

168,013. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ROBERT S. GITTERMAN, doing business as Allen Bottling Co., Wichita, Kans. Filed Dec. 21, 1922. Serial No. 173,635.

NATURES BEST
WATER
CONWAY SPRINGS



Particular description of goods.—Mineral Water and Ginger Ale.
Claims use since Nov. 1, 1916.

168,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAPELL SALT COMPANY, Salt Lake City, Utah. Filed Dec. 6, 1922. Serial No. 172,973.

HOLSTEIN

Particular description of goods.—Salt (Sodium Chloride).
Claims use since Dec. 31, 1920.

168,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARITIME MILLING CO. INC., New York, N. Y. Filed Nov. 27, 1922. Serial No. 172,604.

JERSEY
DRY MASH
VINELAND

Particular description of goods.—Poultry and Stock Food.
Claims use since Nov. 1, 1921.

168,016. (CLASS 15. OILS AND GREASES.) MASON CITY OIL & GREASE COMPANY, Mason City, Iowa. Filed Nov. 24, 1922. Serial No. 172,483.

VAPOR GASOLINE

Particular description of goods.—Gasoline.
Claims use since Sept. 15, 1918.

168,017. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE I. SCHWARTZMAN, doing business as Lovejoy Laboratories, Brooklyn, N. Y. Filed Nov. 20, 1922. Serial No. 172,295.

Lovejoy

Particular description of goods.—Face and Talcum Powders, Face Creams, Hair Tonics, Toilet Waters, Peroxide, and Body-Rubbing Fluids.
Claims use since April, 1919.

168,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. MARRÉ & BRO., Oakland, Calif. Filed Nov. 13, 1922. Serial No. 171,934.

MARRÉ

Particular description of goods.—Canned Fruits, Vegetables, Fish; Food Sirups, Food Oils, Peanut Butter, Honey, Vinegar, Mincemeat, Catchup, Fruit Extracts.
Claims use since 1907.

168,019. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LONDON LIGHTINGWARES CORPORATION, New York, N. Y. Filed Nov. 4, 1922. Serial No. 171,582.

HEATINGWARES

Particular description of goods.—Electric Heaters of the Reflecting-Disk Type.
Claims use since Jan. 5, 1921.

168,020. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. F. HENNING, doing business as Ford Chemical Co., Oakland, Calif. Filed Nov. 1, 1922. Serial No. 171,460.

Ford FOODS Chem Co.
GOOD FOODS

Particular description of goods.—Ant Powder.
Claims use since Mar. 20, 1921.

168,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & CO., Brooklyn, N. Y. Filed Oct. 13, 1922. Serial No. 170,701.

SWEETS DELECTABLE

Particular description of goods.—Chocolates and Candies.
Claims use since 1914.

168,022. (CLASS 39. CLOTHING.) HARRY GREENBERG CO., INC., New York, N. Y. Filed Sept. 26, 1922. Serial No. 169,952.

Furlike

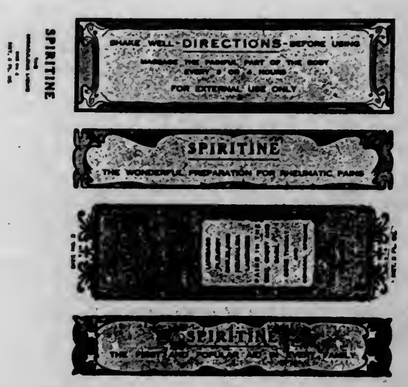
Particular description of goods.—Women's and Misses' Coats, Cloaks, and Suits.
Claims use since May, 1921.

168,023. (CLASS 39. CLOTHING.) L. J. & C. D. JAFFEE INC., New York, N. Y. Filed Sept. 25, 1922. Serial No. 169,906.

THE WILTON

Particular description of goods.—Juveniles', Boys', and Students' Coats and Trousers.
Claims use since 1917.

168,024. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VESUVIUS DRUG CO., Newark, N. J. Filed Aug. 26, 1922. Serial No. 168,739.



Particular description of goods.—Preparation for the Treatment of Rheumatism.
Claims use since Aug. 1, 1921.

168,025. (CLASS 15. OILS AND GREASES.) MUTUAL OIL COMPANY, Kansas City, Mo. Filed July 3, 1922. Serial No. 166,467.

Anti-Carbon MUTUAL AUTOMOBILE OIL

Particular description of goods.—Motor Lubricating Oil.
Claims use since 1910.

168,026. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) W. J. BUCHNER, doing business as the Mineola Silverware Cleaning Co., Glendive, Mont. Filed June 10, 1922. Serial No. 165,268.

"Mineola"

Particular description of goods.—Preparation for Cleaning Silverware.
Claims use since Mar. 1, 1922.

168,027. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WORKRITE MANUFACTURING CO., Cleveland, Ohio. Filed June 3, 1922. Serial No. 164,982.

"WORKRITE"

Particular description of goods.—Radio Parts and Appliances Comprising Variometers, Variocouplers, Rheostats, Dials, Switch Parts, Head Phones, Loud Speakers, Phones, and Binding Posts.
Claims use since March, 1921.

168,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI RIGAUD, doing business as Rigaud, Paris, France, and New York, N. Y. Filed June 3, 1922. Serial No. 164,960.

FLORENCE NO WALTON

Particular description of goods.—Face-Powder Tint.
Claims use since 1919.

168,029. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLIAMS AND WAGNER, Beloit, Wis. Filed May 25, 1922. Serial No. 164,529.

"STRAIGHT-BACK"

Particular description of goods.—A Shoulder or Body Brace.
Claims use since July, 1921.

168,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRIEDRICH-FRIEDRICH CHEMICAL COMPANY, Philadelphia, Pa. Filed May 20, 1922. Serial No. 164,160.

Lem-n-oil

Particular description of goods.—Shampoos.
Claims use since June 1, 1921.

168,031. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JACQUES KREISLER & CO., New York, N. Y. Filed May 12, 1922. Serial No. 163,757.

PLATINUM-KLAD 14 KT. JK CORE

Particular description of goods.—Chains for Personal Adornment.
Claims use since about Mar. 1, 1922.

168,032. (CLASS 37. PAPER AND STATIONERY.) WESTFIELD RIVER PAPER COMPANY, New York, N. Y. Filed Mar. 17, 1923. Serial No. 177,641.

PAPERGLAS

Particular description of goods.—Wrapping and Transparent Paper.
Claims use since the year 1918.

168,033. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed Feb. 24, 1923. Serial No. 176,527.



Particular description of goods.—Cotton Piece Goods.
Claims use since on or about Mar. 15, 1921.

168,034. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed Feb. 24, 1923. Serial No. 176,523.



Particular description of goods.—Cotton Piece Goods.
Claims use since on or about Jan. 31, 1921.

168,035. (CLASS 2. RECEPTACLES.) THE NATIONAL GRAVE VAULT CO., Galion, Ohio. Filed Jan. 29, 1923. Serial No. 175,263.



Particular description of goods.—Grave Vaults.
Claims use since Mar. 1, 1922.

168,036. (CLASS 38. PRINTS AND PUBLICATIONS.) ORAZIO POLIZZI, New York, N. Y. Filed Jan. 23, 1923. Serial No. 174,951.



Particular description of goods.—Picture Postal Cards.
Claims use since Aug. 16, 1921.

168,037. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,462.

Savon Kenott

Particular description of goods.—Dentifrice.
Claims use since Aug. 8, 1916.

LABELS

REGISTERED MAY 8, 1923.

25,906.—*Title:* DAIRYLEA EVAPORATED MILK. For Evaporated Milk. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Published March 1, 1923.

25,907.—*Title:* DAIRYLEA CONDENSED MILK. For Condensed Milk. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Published March 1, 1923.

25,908.—*Title:* SNOOKUM BRAND FRUITS AND VEGETABLES. For Fruits and Vegetables. FROMBUSH & MELLEN, Tampa, Fla. Published March 26, 1923.

25,909.—*Title:* FLOSTIK MINUTE-DRY GOLF BALL RENEWER. For Paint. FLOSTIK COMPANY, Waltham, Mass. Published April 11, 1923.

25,910.—*Title:* TRUE BREAD. For Wrapper for Loaves of Bread. GENERAL BAKING COMPANY, New York, N. Y. Published March 6, 1923.

25,911.—*Title:* MITTME. For Nonalcoholic Maltless Beverages and Sirups for Preparing the Same. ROBERT HILL, doing business as Mittme Manufacturing Company, Buffalo, N. Y. Published January 9, 1922.

25,912.—*Title:* KRANK'S FIX-A-GLOSS. For Hair Fixative and Dandruff Remedy. ALFRED J. KRANK, St. Paul, Minn. Published January 5, 1923.

25,913.—*Title:* KRANK'S LEMON FACIAL PACK. For Skin Treatment and Beautifier. ALFRED J. KRANK, St. Paul, Minn. Published December 6, 1922.

25,914.—*Title:* KREEPER. For Infants' Hosiery. KRUEGER-TOBIN CO. INC., New York, N. Y. Published January 13, 1922.

25,915.—*Title:* MT. TOM. For Bread. LABRECQUE BROTHERS, doing business as Mt. Tom Bakery, Willimansett, Mass. Published December 18, 1923.

25,916.—*Title:* NAFZIGER FLUFFY-LOAF. For Bread. NAFZIGER BAKING COMPANY, Kansas City, Mo. Published April 3, 1923.

25,917.—*Title:* EVEREADY RADIO "A" BATTERY. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published March 15, 1923.

25,918.—*Title:* COLUMBIA GRAY LABEL. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published March 15, 1923.

25,919.—*Title:* SUNSHINE POLISH. For Preparation for Cleaning and Polishing Automobiles. C. A. PAYNE, Arkadelphia, Ark. Published February 24, 1923.

25,920.—*Title:* SCOT TISSUE. For Toilet Paper. SCOTT PAPER COMPANY, Chester, Pa. Published March 10, 1923.

25,921.—*Title:* LUSTERSHINE BLACK GLOSS. For Containers for Black Gloss. ISADORE SLAVIN, doing business as Lustershine Mfg. Co., Brooklyn N. Y. Published April 11, 1923.

25,922.—*Title:* TODD'S OLD VIRGINIA HAMS. For Hams. E. M. TODD CO., Richmond, Va. Published January 2, 1923.

25,923.—*Title:* CAMP FIRE. For Smoked Meats. VIRDEN PACKING COMPANY, San Francisco, Calif. Published January 18, 1923.

25,924.—*Title:* ANODYNE EMULSION. For Emulsion. W. E. WISE, Williamsport, Pa. Published November 23, 1922.

PRINTS

REGISTERED MAY 8, 1923.

6,688.—*Title:* NEXT TO MYSELF I LIKE 'B. V. D.' BEST. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published April 7, 1923.

6,689.—*Title:* THEY KNOW WHY THEY PREFER "B. V. D." For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published April 7, 1923.

6,690.—*Title:* EAT ELINE'S MILK CHOCOLATE BARS. For Chocolate. ELINE'S INCORPORATED, Milwaukee, Wis. Published March 20, 1923.

6,691.—*Title:* FASHIONKNIT TURTLE TIES. For Knitted Neckties. FRANKLIN KNITTING MILLS, INC., New York, N. Y. Published March 8, 1923.

6,692.—*Title:* POWER. For Storage Batteries. GRIEB-SUTHERLAND CO., Detroit, Mich. Published March 13, 1922.

6,693.—*Title:* FIRST IN PERFECTION. For Coffee. HILLS BROS., San Francisco, Calif. Published March 16, 1923.

6,694.—*Title:* FIRST-TRY. For Coffee. HILLS BROS., San Francisco, Calif. Published March 2, 1923.

6,695.—*Title:* FIRST IN QUALITY. For Coffee. HILLS BROS., San Francisco, Calif. Published March 9, 1923.

6,696.—*Title:* FIRST IN FRESHNESS. For Coffee. HILLS BROS., San Francisco, Calif. Published February 16, 1923.

6,697.—*Title:* FIRST IN FLAVOR. For Coffee. HILLS BROS., San Francisco, Calif. Published February 23, 1923.

6,698.—*Title:* FIRST IN VACUUM. For Coffee. HILLS BROS., San Francisco, Calif. Published February 9, 1923.

6,699.—*Title:* FIRST CHOICE. For Coffee. HILLS BROS., San Francisco, Calif. Published March 23, 1923.

6,700.—*Title:* AMERICAN FAMILY. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published April 5, 1923.

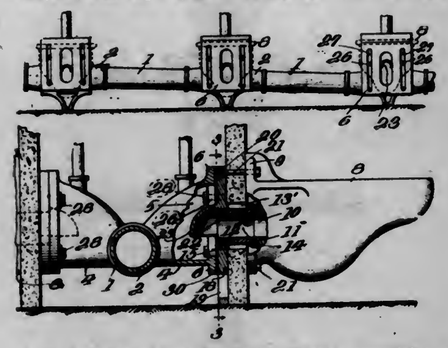
6,701.—*Title:* BLANK'S FINE CHOCOLATES. For Chocolates. CARL PERCY, INC., New York, N. Y. Published February 14, 1923.

6,702.—*Title:* THE STORK MODEL NESMOHT PORTABLE OBSTETRICAL TABLE. For Nesmoht Portable Obstetrical Table. JOHN H. THOMSEN, doing business as The Nesmoht Sales Company, Omaha, Nebr. Published February 15, 1923.

REISSUES.

MAY 8, 1923.

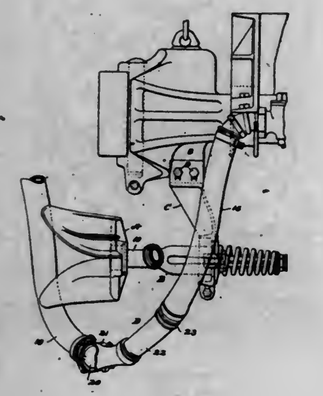
15,595. ADJUSTABLE DRAINAGE FITTING FOR WATER CLOSETS, ETC. JACKSON A. BENNETT, Los Angeles, Calif. Filed Jan. 5, 1923. Serial No. 610,933. Original No. 1,410,526, dated Mar. 21, 1922, Serial No. 407,944, filed Sept. 3, 1920. 8 Claims. (Cl. 137—75.)



4. A drainage fitting for water closets comprising a series of inclined pipe sections, and couplings uniting and maintaining said sections in alignment, each coupling being formed with a laterally disposed receiving chamber closed by a front wall having a vertically disposed elongated opening therein, whereby water closet nipples extended through the respective openings may be maintained in horizontal alignment irrespective of the inclination of the pipe sections.

15,596. AUTOMATIC TRAIN-PIPE CONNECTOR. JOSEPH V. ROBINSON, Santa Monica, Calif. Filed Oct. 30, 1919. Serial No. 334,567. Original No. 1,245,799, dated Nov. 6, 1917, Serial No. 866,825, filed Oct. 15, 1914. 9 Claims. (Cl. 285—58.)

1. In an automatic train pipe connector, the combination of a coupling head, a conduit leading from said head, a hose for conducting pressure fluid, means for connecting said hose to said conduit so as to provide a substantially straight passage for the flow of pressure fluid from one of said parts to the other, an interchange coupling and means for connecting said coupling and hose so as to provide a substantially straight passage for the flow of pressure fluid from one of said last named parts to the other.



DESIGNS.

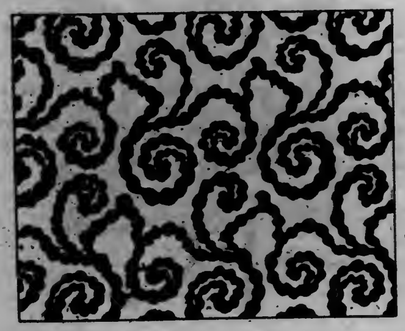
MAY 8, 1923.

62,315. COMBINED BOTTLE AND CAP. PIERRE BASSLER, New York, N. Y., assignor to Houbigant, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1922. Serial No. 2,660. Term of patent 14 years.



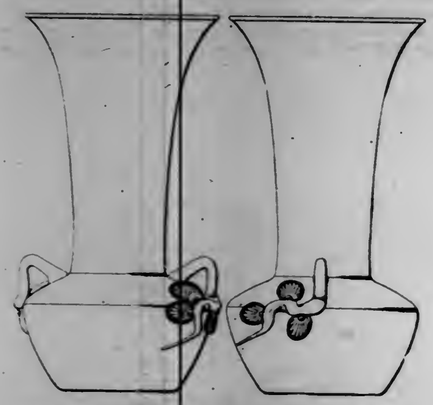
The design for a combined bottle and cap substantially as shown.

62,316. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Nov. 23, 1922. Serial No. 4,386. Term of patent 7 years.



The ornamental design for a textile fabric as shown.

62,317. VASE. FREDERICK CARDER, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed May 11, 1922. Serial No. 2,186. Term of patent 3½ years.



The ornamental design for a vase, as shown.

62,318. BOTTLE. FRANCOIS JOSEPH DE SPOTURNO COTY, Paris, France. Filed June 14, 1922. Serial No. 2,680. Term of patent 14 years.



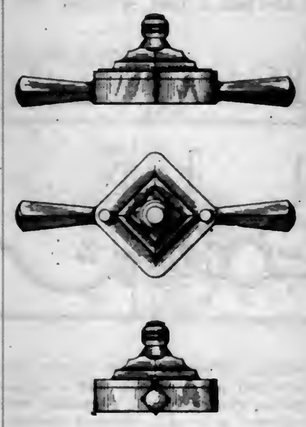
The ornamental design for a bottle substantially as shown.

62,319. BRACE FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 20, 1922. Serial No. 1,861. Term of patent 7 years.



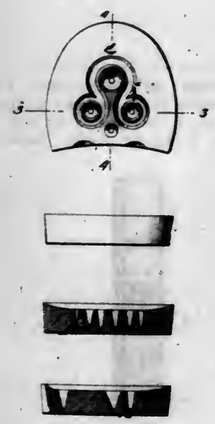
The ornamental design for a brace for lighting fixture, as shown.

62,320. RADIATOR CAP. WILLIAM L. DAVIS, Dayton, Ohio. Filed Apr. 10, 1922. Serial No. 1,682. Term of patent 3½ years.



The ornamental design for a radiator cap, as shown.

62,321. SHOE HEEL. FRANK G. DELBON, Brooklyn, N. Y. Filed Feb. 24, 1922. Serial No. 876. Term of patent 7 years.



The ornamental design for a shoe-heel, as shown.

62,322. BUTTON, EMBLEM, BADGE, PIN, OR SIMILAR ARTICLE. JOSEPH J. DI NATALE, New York, N. Y. Filed July 12, 1922. Serial No. 3,045. Term of patent 3½ years.



The ornamental design for a button, emblem, badge, pin, or similar article, as shown.

62,323. HOLDER FOR SPECTACLES, EYEGLASSES, AND THE LIKE. LOUIS FARBER, Yonkers, N. Y. Filed June 20, 1922. Serial No. 2,748. Term of patent 3½ years.



The ornamental design for a holder for spectacles, eyeglasses, and the like as shown.

62,324. TEXTILE FABRIC. GUSTAVE M. FAUSER, Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,687. Term of patent 3½ years.



The ornamental design for a textile fabric substantially as shown.

62,325. TEXILE FABRIC. GUSTAVE M. FAUSER, Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,688. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,326. TEXTILE FABRIC. GUSTAVE M. FAUSER, Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,689. Term of patent 3½ years.



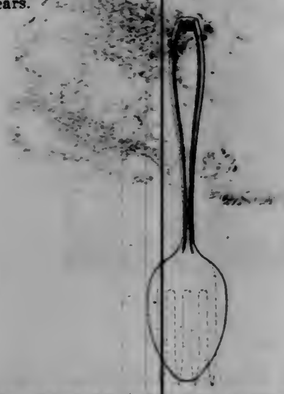
The ornamental design for a textile fabric, substantially as shown.

62,327. TEXTILE FABRIC. GUSTAVE M. FAUSER, Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,690. Term of patent 3½ years.



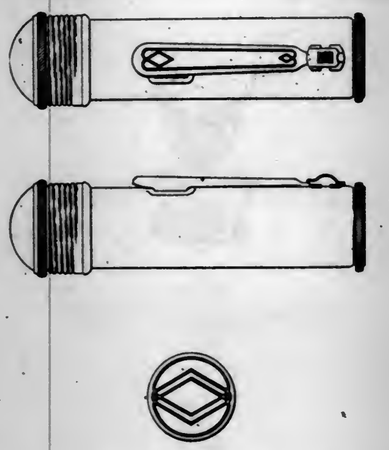
The ornamental design for a textile fabric, substantially as shown.

62,328. SPOON OR SIMILAR ARTICLE. HENRIK HILLBOM, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed May 2, 1922. Serial No. 2,038. Term of patent 7 years.



The ornamental design for a spoon or similar article, as shown.

62,329. FLASH LIGHT. GUSTAF I. JOHNSON, Malden, Mass. Filed Feb. 21, 1922. Serial No. 816. Term of patent 3½ years.



The ornamental design for a flash light as shown.

62,330. DOLL. WILLIAM S. KAISER, Milwaukee, Wis. Filed Aug. 10, 1922. Serial No. 3,340. Term of patent 3½ years.



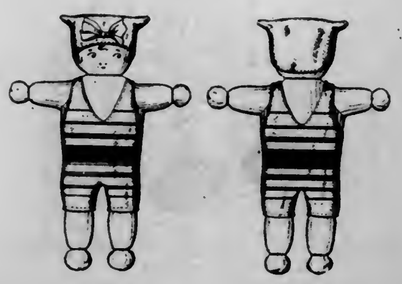
The ornamental design for a doll, as shown.

62,331. INCENSE BURNER. SEIZO KODAMA, San Francisco, Calif., assignor of one-half to Hisano Kodama, San Francisco, Calif. Filed Oct. 10, 1921. Serial No. 506,886. Term of patent 3½ years.



The ornamental design for an incense burner, as shown.

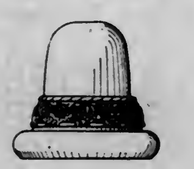
62,332. DRESSED DOLL. ELEANOR A. LOCHRIDGE, Long Beach, Calif. Filed May 20, 1922. Serial No. 2,332. Term of patent 3½ years.



The ornamental design for a dressed doll, as shown.

62,333. SOCKET COVER FOR LIGHTING FIXTURES. GLENN E. MCFADDEN, Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed May 27, 1922. Serial No. 2,441. Term of patent 14 years.





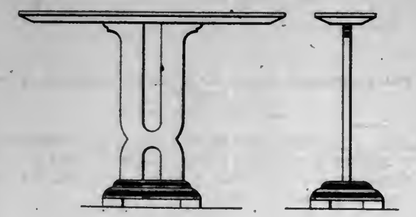
The ornamental design for a socket cover for lighting fixtures, as shown.

62,334. CANDLE PLATE FOR LIGHTING FIXTURES. GLENN E. MCFADDEN, Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed May 27, 1922. Serial No. 2,442. Term of patent 14 years.



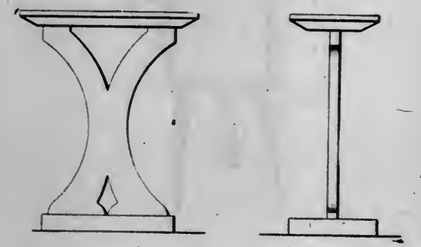
The ornamental design for a candle plate for lighting fixtures, as shown.

62,335. DISPLAY STAND. HENRY J. NUTRIZIO, New York, N. Y. Filed June 14, 1922. Serial No. 2,668. Term of patent 3½ years.



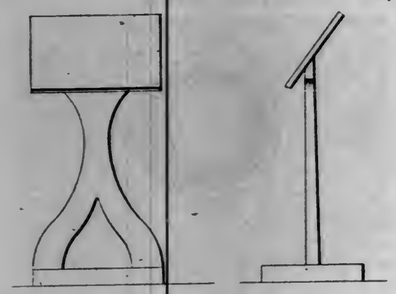
The ornamental design for a display stand as shown.

62,336. DISPLAY STAND. HENRY J. NUTRIZIO, New York, N. Y. Filed June 14, 1922. Serial No. 2,669. Term of patent 3½ years.



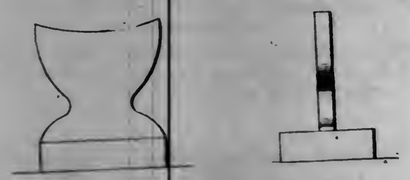
The ornamental design for a display stand as shown.

62,337. DISPLAY STAND. HENRY J. NUTRIZIO, New York, N. Y. Filed June 14, 1922. Serial No. 2,670. Term of patent 7 years.



The ornamental design for a display stand as shown.

62,338. DISPLAY STAND. HENRY J. NUTRIZIO, New York, N. Y. Filed June 14, 1922. Serial No. 2,671. Term of patent 3½ years.



The ornamental design for a display stand as shown.

62,339. ILLUMINATED SEAT INDICATOR FOR AUDITORIUMS AND THE LIKE. HENRY ARTHUR PAGE, Richmond, Va. Filed Dec. 3, 1921. Serial No. 519,779. Term of patent 3½ years.



The ornamental design for an illuminated seat indicator for auditoriums and the like, as shown.

62,340. COMBINED PHONOGRAPH AND MOVING-PICTURE CABINET. JULES A. PERRAULT and WILLIAM ALVAN HITCHCOCK, Boston, Mass. Filed Aug. 14, 1922. Serial No. 3,370. Term of patent 7 years.



The ornamental design for a combined phonograph and moving picture cabinet, as shown.

62,341. HEEL PAD FOR A BOOT OR SHOE. WALTER WILLIAM PHILLIPS, London, England. Filed Aug. 8, 1922. Serial No. 3,313. Term of patent 14 years.

The ornamental design for a heel pad for a boot or shoe, as shown.

62,342. HEEL PAD FOR A BOOT OR SHOE. WALTER WILLIAM PHILLIPS, London, England. Filed Aug. 8, 1922. Serial No. 3,314. Term of patent 14 years.



The ornamental design for a heel pad for a boot or shoe, as shown.

62,343. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, Inc., New York, N. Y., a Corporation of New York. Filed June 10, 1922. Serial No. 2,614. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

62,344. LEAF ORNAMENT FOR ELECTRIC FIXTURES, ETC. JOHN WILLIAM SCHULZE, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Jan. 17, 1921. Serial No. 438,028. Term of patent 3½ years.



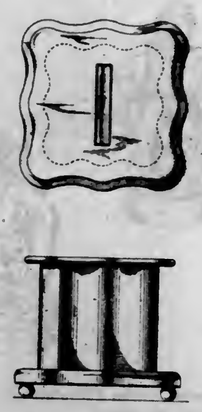
The new and ornamental design for a leaf ornament for electric fixtures, etc., as shown.

62,345. DOLL. HÉLÈNE SILBERFELD, New York, N. Y. Filed Nov. 17, 1922. Serial No. 4,321. Term of patent 3½ years.



The ornamental design for a doll, substantially as shown.

62,346. CIGARETTE HUMIDOR. FRANK A. SILEO, New York, N. Y. Filed June 7, 1922. Serial No. 2,559. Term of patent 3½ years.



The ornamental design for a cigarette humidor, as shown.

62,347. FINGER RING. VINCENT SORRENTINO, Providence, R. I., assignor to Uncas Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 20, 1921. Serial No. 523,779. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

62,348. LIGHTING FIXTURE. GUSTAVE E. VILLARET, New York, N. Y. Filed Mar. 8, 1922. Serial No. 1,080. Term of patent 14 years.



The ornamental design for a lighting fixture as shown.

62,349. STATUETTE, INCENSE BURNER, OR SIMILAR ARTICLE. ERNEST M. VIQUESNEY, Spencer, Ind. Filed Sept. 22, 1922. Serial No. 3,797. Term of patent 14 years.



The ornamental design for statuette, incense burner, or similar article, as shown.

62,350. ELECTRIC-LIGHTING GLOBE. ALFRED A. WOHLAUER, New York, N. Y. Filed May 23, 1921. Serial No. 471,979. Term of patent 3½ years.

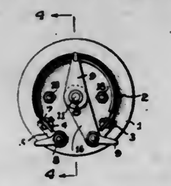


The ornamental design for an electric lighting globe substantially as shown and described.

PATENTS

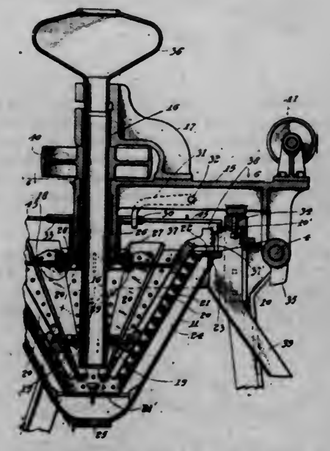
GRANTED MAY 8, 1923.

1,454,030. RHEOSTAT. RALPH BROOKE AUSTRIAN, New York, N. Y., assignor to Union Radio Corporation, New York, N. Y., a Corporation of New York. Filed July 14, 1922. Serial No. 574,898. 6 Claims. (Cl. 219—48.)



1. In a device of the kind described, a flexible insulating strip, a resistance wire wound thereon, means for supporting the strip adjacent its ends and a base having a positioning ridge adapted to cooperate with the strip.

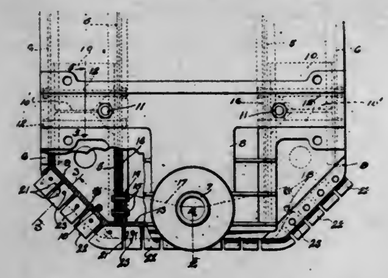
1,454,031. FINISHING MACHINE. LELAND A. BABCOCK, Chicago, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1919. Serial No. 321,960. 11 Claims. (Cl. 146—9.)



1. In a finishing machine, a conical screen; a brush mounted to revolve about the axis of said screen and adapted to be moved longitudinally of said axis; rotatably mounted means for adjusting said brush longitudinally of said screen axis; and a pivoted latch engageable with openings provided in said adjusting means for locking said means in positions of rotary adjustment.

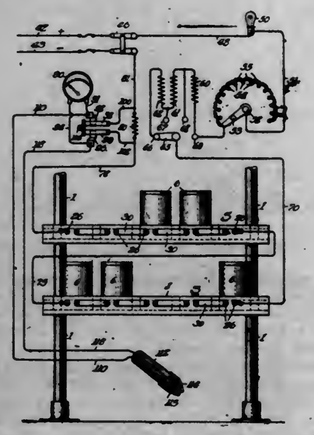
1,454,032. EXCAVATOR FRONT-END CONSTRUCTION. SVANTE R. W. M. BAGER, WERNER LEHMAN, and FREDERICK C. RUHLOFF, South Milwaukee, Wis., assignors to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 16, 1922. Serial No. 544,328. 12 Claims. (Cl. 214—135.)

1. An end construction for an excavator car, comprising a boom supporting base plate, inner sills extending to the outer end of the base plate, shorter outer sills, and a transom structure binding the inner and outer sills together, said transom structure including separator casting which form substantially bevel corners for the car.



4. An end construction for an excavator car, including supporting sills, a boom supporting base plate mounted on the sills, a transom structure binding the sills together, said transom structure including a separator casting having pockets formed therein, and renewable buffer blocks secured in said pockets.

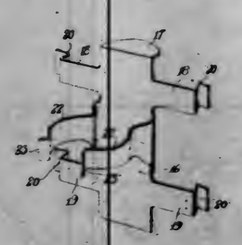
1,454,033. CHARGING RACK. FRANK T. BAIRD, Blue Island, Ill. Filed Oct. 24, 1921. Serial No. 509,880. 6 Claims.. (Cl. 204—29.)



1. A rack for charging batteries of the type wherein the battery terminals are both located at the same end of the battery casing, one at the center and one eccentrically, the rack having stalls for holding the batteries centered, charging terminals arranged in series, two terminals in each stall, one of the charging terminals being centered in the stall and the other arranged eccentrically, the terminals consisting of clips arranged horizontally and adapted to receive the battery terminals when the battery is moved horizontally towards the clips, and self

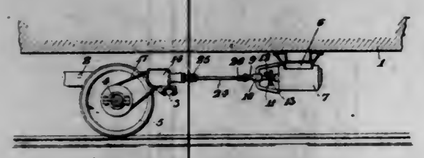
closing switches for electrically connecting the terminals, the switches having upstanding projections adapted to be engaged by the bottom of the battery casing to be opened thereby when the battery is lowered into a position to bring the plane of the battery terminals into the plane of the charging terminals.

1,454,034. MINER'S CARBIDE-LAMP HOLDER. EDWARD SIDNEY BARNSTABLE, Nokomis, Ill., assignor of one-half to D. E. Aylward and one-half to John W. Busker, both of Livingston, Ill. Filed Sept. 19, 1921. Serial No. 501,801. 3 Claims. (Cl. 240—60.)



1. A miner's carbide lamp holder, in combination with a shield fixed to the miner's cap, a body plate having retaining arms adapted to engage the shield and hold the plate thereto, the said shield having an abutment member engaged with certain of said retaining arms to prevent upward movement of the body plate on the shield, means to prevent downward movement of said body plate, and lamp engaging means carried by said body plate.

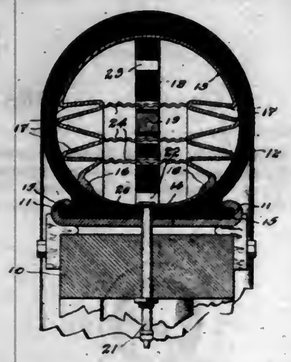
1,454,035. DYNAMO-DRIVING MEANS. WILLIAM F. BOUCHÉ, Lancaster, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Feb. 3, 1922. Serial No. 533,196. 7 Claims. (Cl. 105—102.)



1. In apparatus of the character described, the combination with a railway car body, a car truck with sills and axles, and a dynamo supported rigidly from the car body, of a gear case supported from one of said sills, a jack shaft supported within said case and having one end extending out of the same, a flexible driving connection between said extended end and one of said car axles, a propeller shaft extending into said case at right angles to said jack shaft, bevel gears within said case on said shafts, meshing together, and connections between said propeller shaft and dynamo.

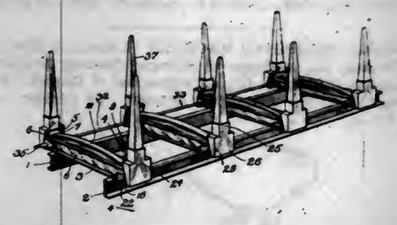
1,454,036. RESILIENT TIRE CONSTRUCTION. SAMUEL C. B. BROWN, Amity, La. Filed July 2, 1919. Serial No. 308,109. 1 Claim. (Cl. 152—8.)

In a tire, a pneumatic element including a tread part and a rim part, and a planiform annular cushion element medially and concentrically mounted on one part to coengage between the two first-named parts at times, being of a radial dimension less than the distance between the tread and rim parts, whereby the cushion will prevent



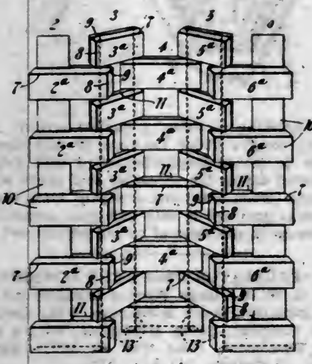
excessive depression of the pneumatic element, but will be inoperative normally.

1,454,037. VEHICLE BED. RALPH E. BYRNE, Kansas City, Mo. Filed June 13, 1921. Serial No. 477,075. 5 Claims. (Cl. 296—43.)



1. A vehicle bed comprising side sills, transverse sills connecting them, the transverse sills being arranged in pairs, blocks between the sills of each pair and at each end thereof, stake pockets hinged to the sides of the vehicle bed, and sliding latches carried by the blocks and engageable with the stake pockets to normally hold them in vertical position.

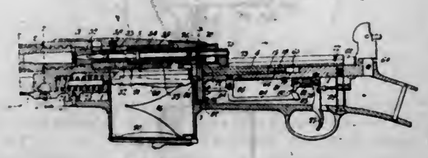
1,454,038. COLLAPSIBLE DISPLAY DEVICE. WILLIS M. CARTER, Jersey City, N. J., assignor to The Carter-Ludwig Company, Incorporated, Hoboken, N. J., a Corporation of New Jersey. Filed Oct. 21, 1921. Serial No. 509,294. 3 Claims. (Cl. 40—126.)



3. A collapsible display device including in combination a pair of opposite lengthwise strips of sheet material each

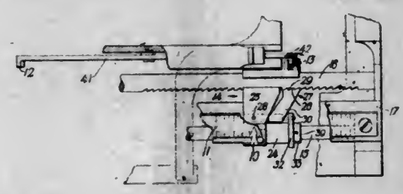
having portions projecting transversely therefrom, flanges projecting backwardly from edges of said transverse portions respectively, and intermediate unit of sheet material having flanges projecting backwardly therefrom, a series of aligned holes through said flanges, and pivot rods through said holes whereby the several members are assembled into an articulated whole.

1,454,039. AUTOMATIC FIREARM. ARNOLD LOUIS CHEVALLIER, London, England. Filed Dec. 12, 1916. Serial No. 136,531. 14 Claims. (Cl. 42—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an automatic fire arm, the combination of a shoe, a magazine and trigger mechanism both fast with the shoe, a barrel, a raceway secured to the barrel, the barrel and raceway being capable of recoiling upon the shoe, a weight capable of sliding on the raceway, means for normally locking the weight to the shoe and a bolt carrier and bolt within the weight.

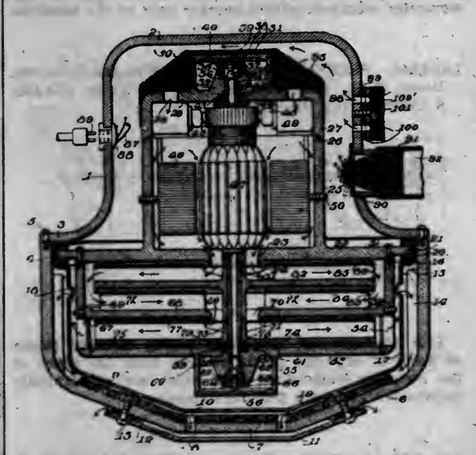
1,454,040. TYPEWRITING MACHINE. CLIFTON B. CORELL, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,428. 8 Claims. (Cl. 197—63.)



1. In a typewriting machine, the combination with a traveling carriage, of a stop comprising a body, a rack bar, an arm swingable on said body into and out of engagement with said rack bar, a handle rotatable on said body transversely to said rack bar, and means including a double-action cam member fast to said handle to swing said arm into and out of engagement with said rack bar.

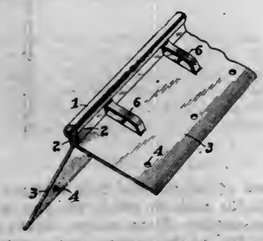
1,454,041. BEARING. STANLEY S. CRAMER, Camden, N. J. Original application filed Aug. 21, 1919, Serial No. 318,886. Divided and this application filed Apr. 20, 1920. Serial No. 375,208. 4 Claims. (Cl. 64—49.)

4. In combination with a shaft having a bore, means having a journal bearing for said shaft and an enlarged internally threaded aperture in said means concentric with said bearing, a ball of greater diameter than the bore of said shaft and in uniform contact with the sides of said bore, and a plug extending into said aperture in



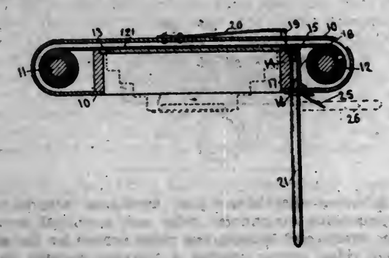
threaded contact therewith and supporting said ball to adjustably determine the longitudinal movement of said shaft in one direction.

1,454,042. CORNER BEAD. LEWIS E. CURTIS, Warren, Ohio, assignor to The Youngstown Pressed Steel Company, Warren, Ohio, a Corporation of Ohio. Filed May 25, 1921. Serial No. 472,569. 3 Claims. (Cl. 72—121.)



1. A plasterer's corner strip having in combination, a corner bead, support elements, diverging attaching elements and bracing members extending from the bead, above the junction of the supporting elements and attaching elements, to the attaching elements remote from said junction and out of the plane of said member.

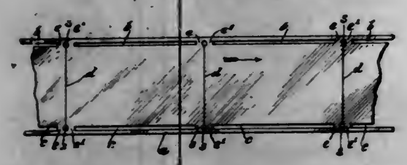
1,454,043. ENVELOPE. WILLIAM L. DODGE, Dover, N. H. Filed Jan. 23, 1920. Serial No. 353,454. 4 Claims. (Cl. 95—31.)



1. As a new article of manufacture a film receiver for use with photographic cameras consisting of an envelope

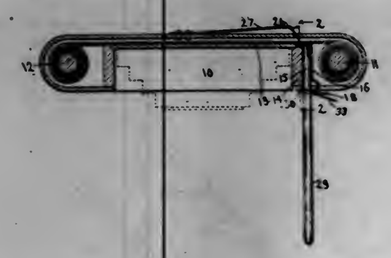
of flexible and tough material having a transversely extending fold, whereby one part of the envelope is telescopically contained within another part of the envelope.

1,454,044. PHOTOGRAPHIC FILM. WILLIAM L. DODGE, Dover, N. H. Filed Jan. 23, 1920. Serial No. 353,456. 8 Claims. (Cl. 95—9.)



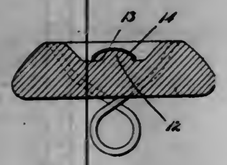
1. A photographic film strip having interior panels or fields of exposure partly severed from the edges of the strip by longitudinal cuts which are substantially coextensive with said fields of exposure.

1,454,045. CAMERA. WILLIAM L. DODGE, Dover, N. H. Filed Feb. 14, 1920. Serial No. 358,804. 14 Claims. (Cl. 95—31.)



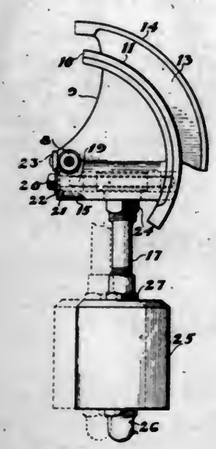
1. A camera of the roll film type having a passage extending from the path in which the film is adapted to travel to the exterior of the camera, means for severing sections of a film in the camera, and a gate adapted to open and close the interior entrance to said passage whereby, when opened, to permit travel of such severed film section into the passage.

1,454,046. SHANK BUTTON. TIMOTHY DONOVAN, Portsmouth, N. H., assignor to Morley Button Manufacturing Company, Boston, Mass., a Corporation of Maine. Filed Jan. 11, 1921. Serial No. 436,417. 2 Claims. (Cl. 24—90.)



1. A button comprising a body having an integral contour presenting an annular ridge and a central mound wholly within and beneath the plane defined by the said annular ridge having thereon a lustrous metallic coating, the button being provided with a loop shank having its ends embedded in the substance thereof.

1,454,047. PENDULUM MECHANISM. WILBER EMERY, Monroe County, Mich., assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,632. 6 Claims. (Cl. 265—62.)



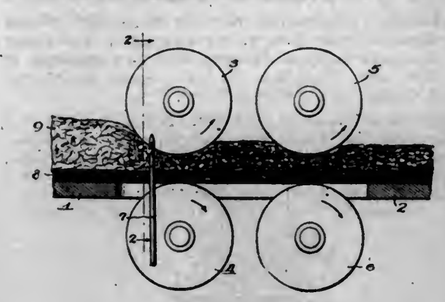
1. In a weighing pendulum, in combination an eccentric power sector, a movable weight connected to said eccentric power sector, means for rectilinearly moving said weight in one direction, and means for translating said weight in another direction, substantially as described.

1,454,048. METHOD OF AND APPARATUS FOR SIDE-TRACKING IN DEEP-WELL DRILLING. NIELS ESPERSON, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed Sept. 29, 1921. Serial No. 504,120. 13 Claims. (Cl. 255—1.)



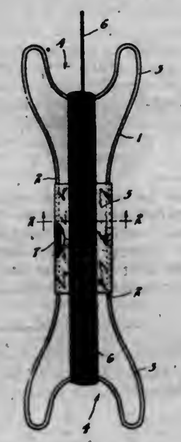
1. The herein described method of side tracking in drilling oil wells consisting in cutting an opening through the wall of the casing and thereafter spreading the wall of the casing outwardly at the upper end of said opening, substantially as described.

1,454,049. UPHOLSTERY MATERIAL. CHARLES E. GENUNG, Chicago, Ill., assignor to Morris & Company, a Corporation of Maine. Filed Feb. 11, 1921. Serial No. 444,255. 2 Claims. (Cl. 28—4.)



1. An upholstery material including a base layer of hair felt embodying short hairs and a superimposed layer of curled hair, portions of the curled hair being disposed transversely of the layers and interlaced therewith throughout the thickness of both layers so as to provide a continuous hair connection of the same length as the combined thicknesses of both layers to prevent lateral shifting of the parts in the completed material and to form a hair to hair connection wherein the ends of the short hairs transversely engage the curled hair.

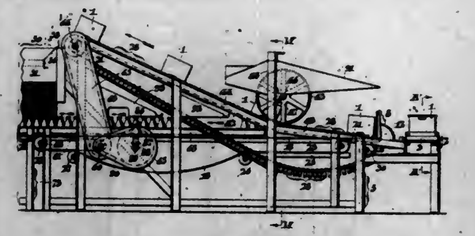
1,454,050. WIRE TROLLING-LINE AND TWINE WINDER. WILLIAM H. GRUENHAGEN, St. Paul, Minn. Filed Aug. 22, 1922. Serial No. 583,479. 3 Claims. (Cl. 242—96.)



3. A hand trolling line holder comprising an elongated flat frame formed of a continuous piece of wire, said frame having a central portion and end portions of greater width than the central portion, each of said end portions having an open-ended recess therein, and a plate extending between the central portions of said frame and having its side edges bent around the same and secured thereto.

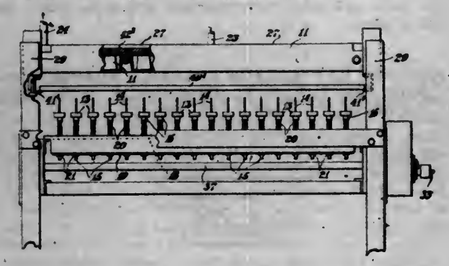
1,454,051. CASE-EMPTYING MACHINE. SAMUEL M. HEULINGS, Haddonfield, N. J. Filed Mar. 19, 1920. Serial No. 367,225. 19 Claims. (Cl. 214—1.)

1. A bottle case emptying machine, comprising, in combination, a conveyor with means for grasping and supporting the lower edges of inverted cases; and a conveyor travelling beneath the cases so progressed serving to support and progress the bottles along a course



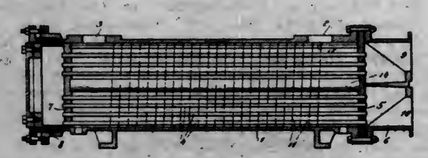
divergent from that of the cases, so that the cases are progressively withdrawn from about the bottles.

1,454,052. CANDLE-FORMING MACHINE. ERNEST A. HOUCHIN, New York, N. Y. Filed Sept. 27, 1920. Serial No. 413,125. 20 Claims. (Cl. 18—27.)



1. A candle molding machine comprising, a plurality of plungers each designed to mold the tip of a candle, a vertically movable frame, downwardly diverging molds carried thereby above said plungers and a platen adapted to be inserted between the plungers and the molds to receive the molded candles from said downwardly diverging molds.

1,454,053. OIL COOLER. RUSSELL C. JONES, Bronxville, N. Y., assignor to The Griscom Russell Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1920. Serial No. 359,607. 6 Claims. (Cl. 257—236.)

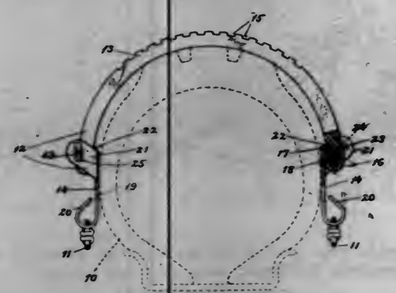


5. In an apparatus of the class described, the combination of a shell having inlet and outlet passages for the fluid to be treated, baffles arranged in said shell forming a continuous circuitous passage from inlet to outlet opening, tubes in said shell for the passage of the second fluid, said tubes projecting through said baffles and passages through said baffles around said tubes for producing cross currents in the fluid flowing through said passage from the inlet to the outlet of the shell.

1,454,054. ANTISKID DEVICE FOR TIRES. IRWIN F. KEPLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1922. Serial No. 535,507. 2 Claims. (Cl. 152—14.)

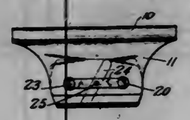
2. An end-fastener for tractive tire straps comprising a metal plate formed with a hook at one end and with a

pair of ears at the opposite end, the edge of said plate being turned over to form a bead between the ears constituting one of a pair of strap-gripping members, the



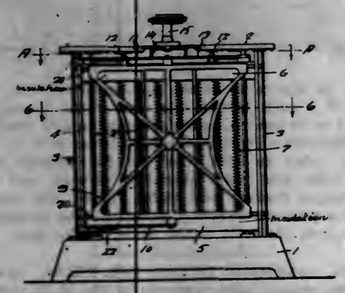
other strap-gripping member being a pin mounted in apertures in said ears and having a head at one end, the other end being bifurcated and spread to retain the pin in place.

1,454,055. RAZOR-BLADE HOLDER. WILFRIED KLAMROTH, New York, N. Y. Filed Apr. 17, 1920. Serial No. 374,551. 2 Claims. (Cl. 30—25.)



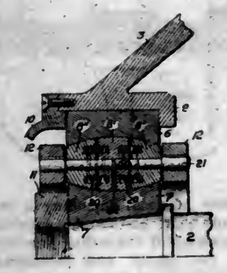
1. A razor blade holder comprising a sheet metal device constructed to form a substantially cylindrical back and a pair of flanges extended therefrom having adjacent flat surfaces adapted to be pressed against the surfaces of a safety razor blade, one of said flanges being provided with parts arranged to extend through perforations in the blade and through the other member, the ends of said parts being bent inwardly, and a latch pivoted to the perforated flange and arranged to engage the bent ends of said parts to hold the members pressed against the blade.

1,454,056. ELECTRIC TOASTER. HENRY KRUESHELD, New Washington, Ohio, assignor to The Perfection Electric Products Co., New Washington, Ohio, a Corporation of Ohio. Filed Mar. 20, 1922. Serial No. 545,277. 10 Claims. (Cl. 219—19.)



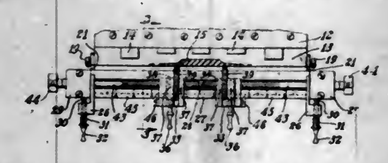
1. An electric toaster comprising a supporting frame, a heating element standing therein, a pair of bread holders, swinging arms pivoted to the frame and to the holders, and an operating lever pivoted on the frame and having a pivoted link connection at each end with the bread holders respectively, and adapted to swing the arms and reverse the bread holders substantially as described.

1,454,057. COMPOSITE ROLLER BEARING. JULIUS KUTTNER, New York, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 13, 1918. Serial No. 222,061. 4 Claims. (Cl. 64—38.)



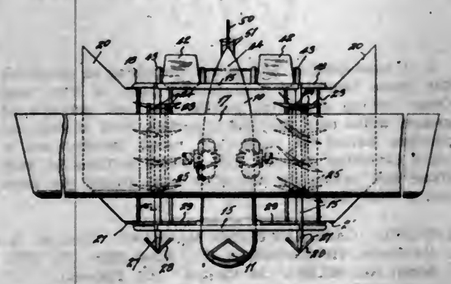
1. A composite roller bearing comprising races, a plurality of barrel-shaped rollers mounted between said races, each of said rollers comprising a plurality of relatively rotatable sections, and means for spreading said sections.

1,454,058. MARKING ATTACHMENT FOR STRIP-FORMING APPARATUS. SILAS C. LOWE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,682. 9 Claims. (Cl. 18—12.)



2. In apparatus for making tire-tread stock, the combination of an extruding machine for forming a strip of rubber composition, and means supported in front of and immediately adjacent to the delivery end of said machine in engagement with the lower surface of the strip for making parallel impressions thereon as the strip is formed.

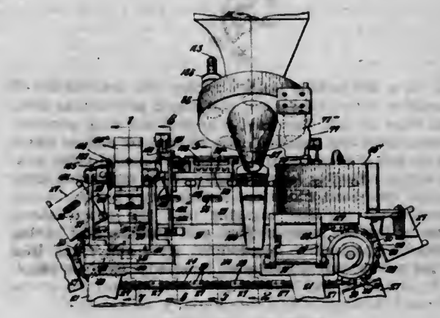
1,454,059. AIRSHIP. JOHN G. LUKACS, New York, N. Y. Filed Aug. 1, 1921. Serial No. 488,854. 6 Claims. (Cl. 244—29.)



1. A flying machine comprising a sustaining plane, horizontally disposed vertically adjustable balancing planes

associated therewith, and vertically disposed horizontally adjustable steering air foils associated therewith, and a plane adjusting means associated with each set of planes comprising a threaded shaft, a threaded collar for receiving the shaft, a gear for driving the shaft, a crank for rotating the gear, and means for indicating the position of the planes with which the shaft is connected.

1,454,060. BAG FILLING AND CLOSING MACHINE. JOHN D. LANE, Boston, and JAMES MACNAUGHTAN, Brookline, Mass., assignors, by direct and mesne assignments, to Gordan Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed May 15, 1922. Serial No. 561,056. 14 Claims. (Cl. 226—49.)



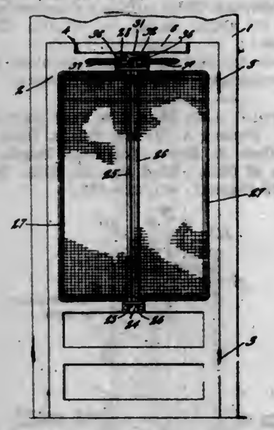
1. A bag-filling machine comprising, in combination, an endless belt, means maintaining an upper stretch of the belt in a substantially horizontal position, said means including spaced apart wheels engaging the belt, and a fixed guide between said wheels supporting the upper stretch, jaw-carriers fixed to the belt, bag-engaging jaws supported by said carriers and arranged in groups, each group arranged to engage a bag, the carriers and jaws on the upper stretch of the belt being maintained in a predetermined path by said guide, a driving-shaft substantially parallel with the guide, operating mechanism connecting the driving-shaft with one of said wheels, and organized to impart a step-by-step movement to the belt, the arrangement being such that each jaw-carrier on the upper stretch is held successively at a series of stations, the first of which is a bag-receiving station, a bag-supplying mechanism organized to engage a bag with the jaws at the receiving station, operating connections between said supplying mechanism and the driving-shaft, a series of following mechanisms organized to cooperate successively with a bag held by the jaws at the other stations, to fill, gum, crease and close, the engaged bag, and operating connections between said mechanisms and the driving shaft.

1,454,061. DOUBLE-EYED GUIDE. JESSE F. MADDEN, Brooklyn, N. Y. Filed Aug. 24, 1921. Serial No. 495,008. 6 Claims. (Cl. 242—157.)



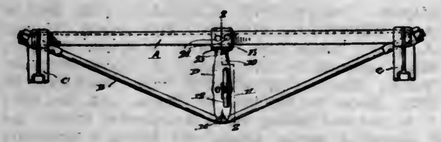
5. In devices of the character described, a guide comprising a circular body having its periphery provided with a groove for engagement with a holder, and having its faces on opposite sides of its periphery concaved and provided with a plurality of eyes extending through the guide from one face to the other.

1,454,062. FLY SWATTER. LEWIS B. MCDANIEL, La Belle, Mo. Filed May 15, 1922. Serial No. 560,948. 4 Claims. (Cl. 43—110.)



1. In a device of the class described, a frame; a door hinged to the frame; panels mounted to swing on the door; a member movable on the door; means for connecting said member operatively with the panels to swing the panels away from the door and together when the door is opened and when said member is held against movement with the door; means on the frame for holding said member against movement with the door when the door is opened, the holding means being automatically releasable from said member after the door has been opened a predetermined amount; and spring means for swinging the panels toward the door and for advancing the movable member with respect to the door after said member has been released from the holding means.

1,454,063. REVERSIBLE STRUT FOR RAILWAY BRAKE BEAMS. ISAK MOELLER, New Glasgow, Nova Scotia, Canada. Filed July 17, 1922. Serial No. 575,740. 7 Claims. (Cl. 188—232.)



3. A brake beam comprising a compression member, a tension member, a strut extending centrally between the compression and tension member, the said strut having means to engage the tension member in either of two angularly adjusted positions having interlocking means at the opposite end, a connecting member slidably mounted on the compression member having means to interlock with the interlocking means on the head of the said strut and means for retaining the connecting member in longitudinal adjusted position on the brake beam, the said means comprising a projection on the brake beam adapted to engage a suitable recess in the end of the strut.

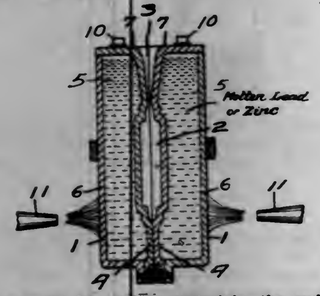
1,454,064. PROCESS OF CASTING METALS. HUBERT A. MYERS, Toledo, and ARTEMUS D. STRAW, Wauseon, Ohio, assignors, by direct and mesne assignments, to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 27, 1921. Serial No. 440,501. 99 Claims. (Cl. 22—192.)

1. The process of preventing adherence of a metal casting to a mold, which consists in treating the mold with a metalliferous substance and forming between the mold and the casting a gas from the metalliferous substance by the heat of the metal cast.

1,454,065. MOLD FOR CASTING METALS AND PROCESS OF MAKING AND USING THE MOLDS. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 30, 1921. Serial No. 457,085. 25 Claims. (Cl. 22—188.)

1. In a mold for casting metals, the mold formed of ingredients comprising a nickel cobalt metal.

1,454,066. MOLD AND PROCESS FOR CASTING MATERIALS. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 15, 1921. Serial No. 461,623. 32 Claims. (Cl. 22—177.)



1. In a mold for casting materials, the mold having a chamber and a molding cavity, a wall separating the chamber and the cavity, the chamber containing a material having a boiling point above 1,000° F.

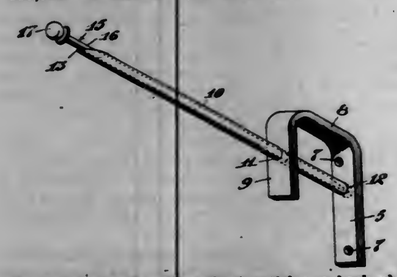
1,454,067. CONTAINER AND MOLD FOR MOLTEN METAL. HUBERT A. MYERS, Toledo, and ARTEEMES D. STRAW, Wauseon, Ohio, assignors to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Jan. 27, 1921, Serial No. 440,501. Divided and this application filed Jan. 13, 1922. Serial No. 529,030. 29 Claims. (Cl. 22—188.)

1. An iron mold for casting metals having zinc distributed over its matrix surface.

1,454,068. PROTECTIVE MATERIAL FOR MOLDS AND METHOD OF FORMING THE SAME. HUBERT A. MYERS, Toledo, and ARTEEMES D. STRAW, Wauseon, Ohio, assignors to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 30, 1922. Serial No. 532,909. 69 Claims. (Cl. 22—189.)

1. A container having metal incorporated therein and for containing molten metals, and having a protective coating comprising carbon, iron, and an oxide of a metal gasifiable below the melting point of iron.

1,454,069. PATTERN FILE. FRANZ OBRIKAT, Jr., Los Angeles, Calif. Filed July 18, 1921. Serial No. 485,527. 3 Claims. (Cl. 129—8.)



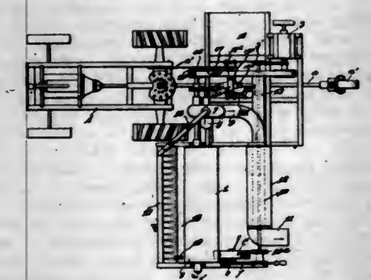
3. In a device for filing sheet articles, a back plate, an upwardly inclined tube carried by said back plate opening at its outer end, a brace for the tube, and a pin insertable in and removable from said tube.

1,454,070. SELF-LOCKING WIRELESS MOLDED ROOFING. FRED OPENSHAW, Gonville, Wanganui, New Zealand. Filed Mar. 31, 1921. Serial No. 457,564. 5 Claims. (Cl. 108—10.)



1. In a self-locking molded roofing, the combination of successive layers of recessed and ribbed interlocking tiles, each layer of said tiles having hooked end strip portions, battens extending longitudinally of the roof and on which the hooked ends of the tiles engage, horizontal ridge locking strips extending longitudinally of the uppermost layer of tiles, said horizontal ridge locking strips having hooked lateral strip portions engaging over the upper lateral edges of the top layer of tiles, said portions also having outwardly projecting longitudinal ribs, and ridge tiles having correspondingly recessed inner edge portions adapted to engage on and interlock with the rib portions of the aforesaid locking strips substantially as set forth.

1,454,071. GRAIN HARVESTER. CHARLES OWENS, Chattanooga, Tenn. Filed Mar. 26, 1921. Serial No. 455,801. 2 Claims. (Cl. 56—19.)

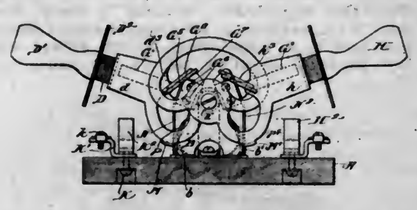


1. In combination, a main frame having a caster wheel at its rear end, an auxiliary frame mounted upon the main frame and extending laterally thereto, a threshing cylinder and concave mounted on the auxiliary frame at its forward end, the cylinder and concave having an absolutely free and unobstructed grain entrance to their threshingfield of action, the auxiliary frame being supported at its outer end by a grain wheel, means for raising and lowering the auxiliary frame vertically in its relation to the main frame and means for tilting the auxiliary frame on the axis of its vertical raising and lowering means, the said tilting means being under the control of the operator as the machine is traveling, so as to adjust the position of the threshing cylinder and concave to the varying height of grain.

1,454,072. DOUBLE-THROW QUICK-MAKE AND QUICK-BREAK SWITCH. HERMAN G. PAPE, New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Jan. 14, 1919. Serial No. 271,129. 24 Claims. (Cl. 200—67.)

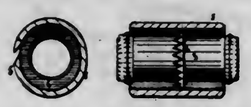
1. A device of the character described comprising two sets of terminal contacts, each set comprising one or more

of such contacts; a handle; a switch member adapted to be electrically connected to a main circuit; a spring directly connected to said handle and to said switch member and being put under stress by said handle and when so



stressed causing said member to engage either one of said sets of contacts as desired with a quick snap action and to be disengaged from either one of said sets as desired with a quick snap action, the path of movement of said switch member being unobstructed at all times

1,454,073. HOSE MENDER, BAND, AND COUPLING. FRANK H. PARADICE, Denver, Colo. Filed Oct. 9, 1922. Serial No. 593,409. 2 Claims. (Cl. 285—84.)



1. In a hose mender, the combination of an inner tube, and an outer bendable longitudinally split band, without locking device said inner tube and outer band held together by a compressible ring between the two substantially as described.

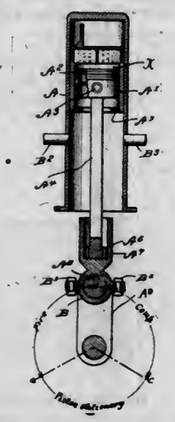
1,454,074. PNEUMATIC TUBE AND METHOD OF MAKING THE SAME. WINFIELD P. PORTER, New York, N. Y. Filed Jan. 30, 1922. Serial No. 532,704. 10 Claims. (Cl. 154—14.)



4. The method of making an inner tube which comprises uniting side edges of pieces of elastic material containing parallel reinforcing strands running at opposite angles to such sides to make up a sheet having a V-shaped reinforcement, folding such sheet into tubular shape with the apices of the aforesaid angles at the belly of the tube and the remaining side edges of the sheet overlapping substantially at the tread of the tube, whereby the reinforcing strands in the above-mentioned sides of the sheets form a crossed reinforcement in the tread.

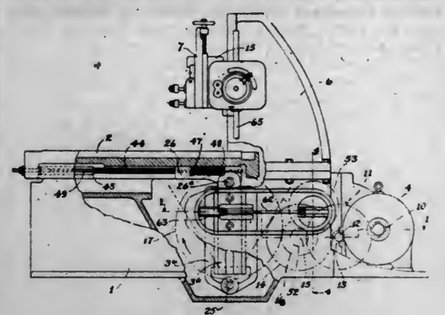
1,454,075. INTERNAL-COMBUSTION ENGINE. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 24, 1920. Serial No. 433,035. 2 Claims. (Cl. 123—197.)

1. In an internal combustion engine, the combination of a power cylinder, a primary piston located therein and a secondary piston, the said secondary piston slidable in the said primary piston, an air space between said pistons, heat absorption surfaces in the said primary piston for absorbing heat from the explosive gases in the power cylinder; a piston rod, a crank, a power shaft; connecting means between said secondary piston and said piston rod, crank and power shaft, whereby the force exerted against the said primary piston is transmitted to the said crank



in the form of power and to the air space in the form of heat, the movement of the crank being maintained thereby at the points of its stroke most favorable to power reception, by the expansion of the air between said pistons, substantially as described.

1,454,076. PLANER. LEWIS M. PYLE, Bryn Mawr, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1921. Serial No. 436,968. 14 Claims. (Cl. 90—34.)

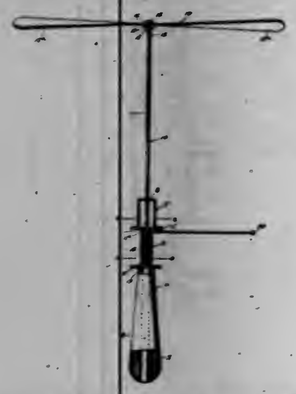


1. In combination with a metal working machine comprising a work support and a tool support, one of such supports being reciprocably mounted, a block secured to the reciprocable support, means operably secured to the block for reciprocating the support, means for adjusting the block along the support in the direction of its reciprocation, a sliding wedge for clamping the block in position, and means for operating the wedge.

1,454,077. TOY. JOHN G. REED, Los Angeles, Calif. Filed Oct. 28, 1921. Serial No. 511,088. 2 Claims. (Cl. 244—2.)

1. An aerial toy comprising two oppositely directly propeller blades, an elongated stem central thereto, said stem being central to the blades and centrally carrying them and terminating remote from the blades in a noncircular end, a handle, a spool rotatable on the handle,

an elongated bracket member constituting an axial bearing for the stem mounted on the spool, and the spool and stem having coacting noncircular connecting means for

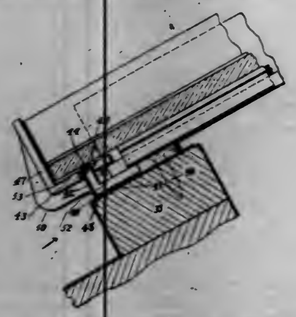


causing a rotation of the propeller and spool until the rotational speed of the propeller overcomes the frictional engagement of the propeller stem with the spool.

1,454,078. STORAGE-BATTERY ELECTROLYTE. EARL J. RUEB, Oklahoma, Okla., assignor to Mid-State Battery Manufacturing Co. Inc., Oklahoma, Okla., a Corporation of Oklahoma. Filed Jan. 28, 1921. Serial No. 440,745. 2 Claims. (Cl. 204—29.)

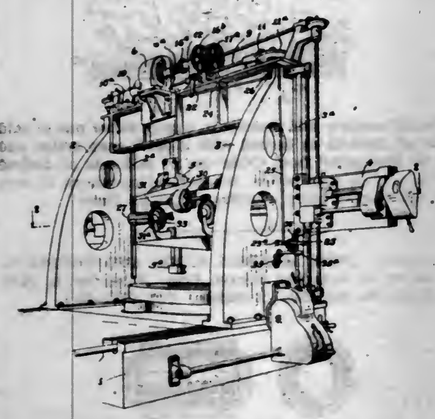
1. A storage battery electrolyte including aluminum-potassium sulphate as one of its ingredients.

1,454,079. GLAZED STRUCTURE. ROBERT N. SCHALKENBACH, deceased, late of Baltimore, Md., by Hulda W. Schalkenbach, administratrix, Baltimore, Md. Substitute for abandoned application Serial No. 760,880, filed Apr. 14, 1913. This application filed Nov. 14, 1921. Serial No. 515,102. 1 Claim. (Cl. 108—16.)



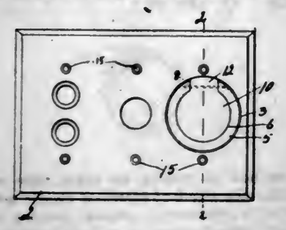
In a glazed structure, the combination of supporting T-beams placed with their side flanges down, cushioning means on said side flanges, members on said cushioning means having upward projections at the edges thereof adjacent to the web of the T-beams and projecting beyond the upper surface of the glass and having their opposite edges formed into gutters, panes of glass supported on said members, metallic strips placed upon the upper surface of the panes of glass along their edges and having an upward projection at the inner edge thereof forming a dam to prevent the passage of water therebeyond and bent downwardly to interlock with the upward projection of the member extending from beneath the glass, bolts secured in said T-beams, a spring cap resting upon the members placed on the upper surface of the glass, and having openings for the passage of said bolts, and nuts on said bolts beyond the top of the cap for securing the parts together and in place, substantially as and for the purposes set forth.

1,454,080. CLAMPING MECHANISM FOR METAL-WORKING MACHINES. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed June 16, 1920. Serial No. 389,425. 38 Claims. (Cl. 77—4.)



1. In a machine of the class described, the combination of a base, a work table mounted thereon, an upright adjacent the table, a cross rail mounted to slide vertically on the upright, means to move the rail vertically, clamping means on the rail for securing the rail to the upright, and a rotary electric motor on the rail for operating the clamping means.

1,454,081. RECEPTACLE PLATE FOR ELECTRICAL OUTLETS. ASA D. SANDS, Camden, N. J. Filed Nov. 29, 1920. Serial No. 426,999. 3 Claims. (Cl. 247—23.)

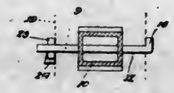


1. A receptacle plate for electrical outlets comprising a plate having an outlet opening and provided with a circumferential V-shaped groove, a door holding member having its edge rotatably mounted in said groove and a door hinged to said holding member.

1,454,082. METHOD OF UTILIZING DOMESTIC AND INDUSTRIAL GARBAGE AND OTHER REFUSE. GUSTAV SCHLÖSSER, Oberschoneweide, near Berlin, Germany. Filed Jan. 27, 1921. Serial No. 440,546. 1 Claim. (Cl. 106—24.)

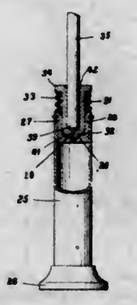
That method of treating city refuse which consists in removing the bulky portion of said refuse, grading the remainder into coarse combustible and fine relatively incombustible portions, mixing the fine portion with a suitable flux, briquetting the mixture and drying the briquettes, burning the coarse portion and utilizing the heat therefrom to melt the briquettes, running the molten briquettes in molds, and finally tempering the moulded pieces.

1,454,083. LATCH FOR RAILWAY-CAR COUPLINGS. WILLIAM F. SHAFFER and BLAKE CRUTCHFIELD, Jackson, Tenn. Filed Apr. 1, 1922. Serial No. 548,611. 8 Claims. (Cl. 85—3.)



1. An automatic latch for drawhead key, said latch comprising an oscillatable member having pivoted connection with said key, the axis of oscillation lying in the length direction of the key, and said member having preponderance to one side of said axis.

1,454,084. VALVE-ACTUATING DEVICE FOR HYDROCARBON MOTORS. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 21, 1917. Serial No. 163,754. 5 Claims. (Cl. 123—90.)



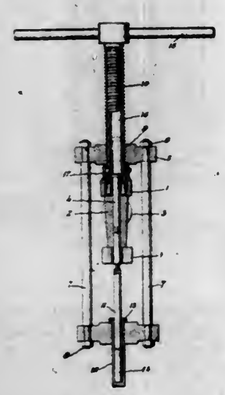
1. In an internal combustion engine, the combination with a valve mechanism, a tappet, a rod and connection therebetween comprising a cylinder, a hollow piston therein having a port connecting its interior and exterior, and a rod having one end mounted in said piston.

1,454,085. ELECTRIC INDICATOR FOR VIBRATIONS OF THE AIR. ELMER A. SPERRY, Brooklyn, N. Y. Filed Jan. 27, 1917. Serial No. 144,867. 13 Claims. (Cl. 250—27.)



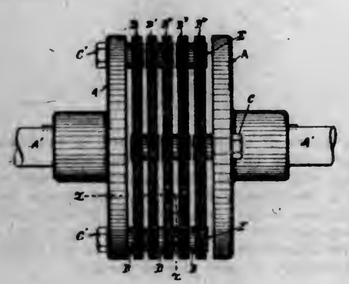
1. An apparatus for detecting wave motions in air comprising a sensitive fluid jet, a plurality of conductors, one conductor being nearer the base of the jet than the other conductor, having a temperature-resistance coefficient, an indicating means, and means operable by variations in the resistance of said conductor due to the heating thereof when the jet collapses for operating said indicating means.

1,454,086. SPINDLE-BOLT-REMOVING DEVICE. CHRISTIAN STAUGAARD, Detroit, Mich. Filed Dec. 15, 1921. Serial No. 522,584. 5 Claims. (Cl. 219—85.)



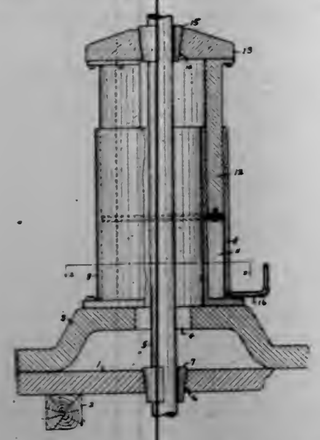
1. In a spindle bolt removing device of the class described, a suitable frame; a screw in threaded engagement with said frame and which screw is provided with an internal passage extending longitudinally thereof; and a push rod supported by said frame and the axis of which is in line with the axis of said screw.

1,454,087. FLEXIBLE COUPLING. GEORGE H. THOMAS, Westfield, N. Y. Original application filed May 6, 1918, Serial No. 232,819. Divided and this application filed Dec. 31, 1921. Serial No. 526,353. 3 Claims. (Cl. 64—96.)



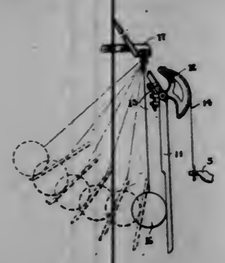
1. In a flexible coupling, a flexible element comprised of a plurality of flexible rings, in which adjacent rings are secured together at diametrically opposite points, the successive pairs of fastenings being in successive staggered relation, a coupling body at each side of said flexible element, said bodies being provided with openings therethrough at diametrically opposite points, posts in the outermost rings of said flexible element and entering said counter bored openings, spacer rings on said posts between said outermost rings and coupling bodies, and means to retain said posts in said openings.

1,454,088. PIPE-PULLING APPARATUS. HOMER C. THRIFT, Burkburnett, Tex. Filed Nov. 12, 1921. Serial No. 514,743. 5 Claims. (Cl. 254—31.)



1. A pipe pulling apparatus including a single cylinder formed with an annular chamber, an annular plunger working in said chamber, a head carried by the plunger and pipe engaging means carried by the head.

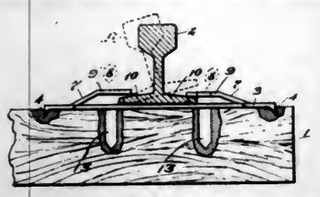
1,454,089. LOAD-COUNTERBALANCING MECHANISM. EDWARD F. ULRICH, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 5, 1920. Serial No. 371,244. 10 Claims. (Cl. 265—70.)



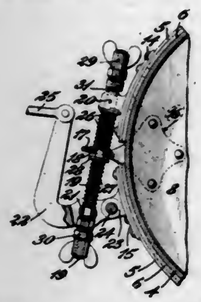
1. In a device of the class described, in combination, a pivoted member having a depending stem, a weight acting upon said stem to resist movement of said member from a predetermined position, and means for so positioning said weight longitudinally of said stem as to lengthen the lever arm upon which said weight acts to a degree substantially proportional to the degree of angular movement of said pivoted member.

1,454,090. RAIL-FASTENING PLATE. JOSEPH WESOLIK, Belleville, Ill., assignor of one-fourth to Ewall Leutscher, Belleville, Ill., and one-half to Ludwig Kribben, Clinton, Mass. Filed Sept. 11, 1922. Serial No. 587,363. 8 Claims. (Cl. 238—303.)

1. The combination with a flanged rail and a wooden tie, of a clamping plate adapted to be seated upon the tie, opposed rail flange embracing members directed upwardly and inwardly from said plate and headed locking members extending through the rail flange embracing members for clamping the plate to the rail so that the embracing members thereof will be sprung to apply yielding pressure to the rail flange and said locking members engaging the edges of the rail flange to prevent displacement thereof upon the plate.

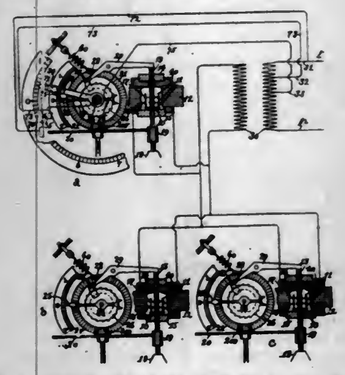


1,454,091. BRAKE MECHANISM. HERBERT VANDERBEEK, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed July 8, 1921. Serial No. 483,175. 8 Claims. (Cl. 188—77.)



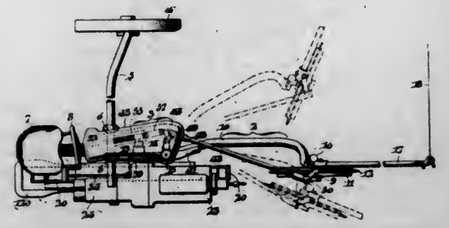
1. A rotatable element having a braking surface, a split brake band adapted to frictionally engage said surface, an anchor for said band, means operatively connected to the ends of said band for expanding and contracting the same, a fixed member adjacent to said ends, and means associated with said fixed member and the end portions of said band for adjusting the clearance between one-half of said band and said rotating element without disturbing the adjustment of the other half of said band.

1,454,092. SYSTEM OF ELECTRICALLY TRANSMITTING SIGNALS. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, Ashland, Mass., a Corporation of Maine. Filed Apr. 15, 1918. Serial No. 228,632. 9 Claims. (Cl. 177—337.)



2. In a telegraphing system, constantly rotating motors having rotors capable of axial motion, indicators driven frictionally therefrom, and means for stopping said indicators without stopping the rotation of said motors controlled by axial motion of the rotating members of the motors.

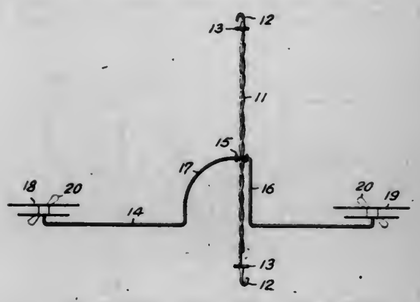
1,454,093. AGRICULTURAL TRACTOR. HERBERT I. WASHBURN, Magnolia, N. J. Filed Sept. 23, 1919. Serial No. 325,796. 19 Claims. (Cl. 97—49.)



1. In a syn-motor, the combination of a crawler unit of substantial ground-contact base length, and a deflector guide unit comprising a deflector arm element movable with reference to the contact base to compensate for inequalities of the ground and a deflector device angularly shiftable with reference to the ground contact base to forcibly deflect and steer the crawler while in motion.

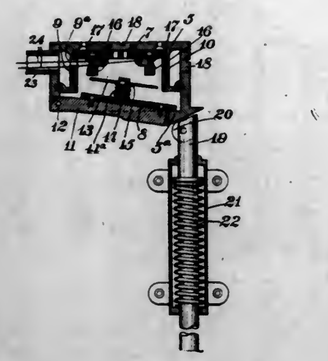
19. In a syn-motor, the combination of a crawler unit including a relatively narrow single endless tread element, an outrigger, an arm carried by the unit for sidewise movement and having its free terminal directed in advance of the unit to a distance sufficient to function in the manner stated, a rolling element pivotally carried by the free terminal of the arm, a power multiplying means acting upon the arm to shift the same to forcibly deflect the unit out of its path to a new path of travel and means for directing the rolling element to guide the unit along its altered path of travel.

1,454,094. TOY. EUGENE W. WESTON, Allandale, Ontario, Canada. Filed Jan. 19, 1920. Serial No. 352,473. 3 Claims. (Cl. 46—14.)



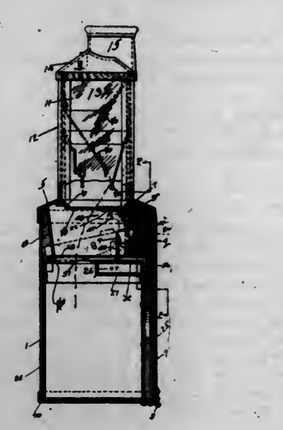
1. In a toy, a screw, an arm having an offset portion and a nut device receiving the screw therethrough and hingedly connected to the arm offset, whereby the screw may be inserted relatively to the arm.

1,454,095. ELEVATOR-DOOR LATCH. WILLIAM A. WILLIAMS, Columbus, Ohio. Filed Mar. 22, 1922. Serial No. 545,879. 4 Claims. (Cl. 187—31.)



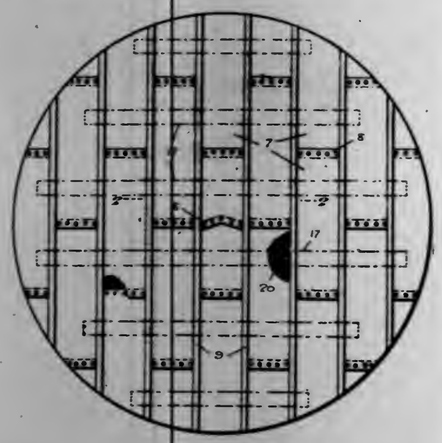
3. A latch case for an electric elevator door comprising, in combination, a box-like structure, electrodes for an elevator operating circuit therein, a hinged cover carrying a spring held circuit closer for said circuit, and insulating linings for the interior of said box-like structure and said cover.

1,454,096. FARE BOX. CHARLES H. WOODS, Decatur, Ill. Filed May 31, 1919. Serial No. 301,065. 9 Claims. (Cl. 232—15.)



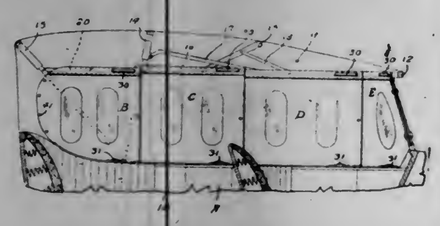
1. In a fare-box, in combination, a casing, a till or receiving receptacle having an opening in its top and a closure therefor, means to lock the till within said casing, levers arranged to alternately lock the till in receiving position and the closure against movement when the till is released and during movement thereof, whereby said closure assumes a closed and locked position on the till, a hand crank, and means operated thru the movement of said crank to engage and actuate said levers to release said till.

1,454,097. SHEET-METAL ROOF. Ross A. WORKMAN, Tulsa, Okla. Filed Apr. 17, 1922. Serial No. 553,456. 7 Claims. (Cl. 108—22.)



1. A sheet metal roof comprising sheets connected by seams, and expansion and contraction strips extending transversely under the seams, the sheets being anchored to said strips.

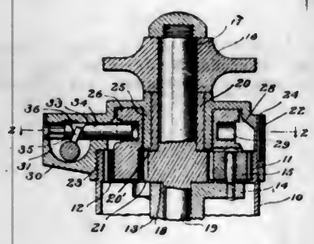
1,454,098. VEHICLE CURTAIN. CHARLES A. ZAHN, Merrill, Wis. Filed Aug. 26, 1920. Serial No. 406,110. 2 Claims. (Cl. 296—138.)



1. In a vehicle closure, the combination with a vehicle body and a vehicle top, of a curtain including a flexible body, flexible resilient rods carried by the body adjacent to the upper and lower ends thereof, a pair of studs carried by each of the metallic resilient rods adjacent to one end thereof, a single stud carried by the rods adjacent to the opposite ends thereof, sockets carried by the vehicle top and body for receiving said studs, and handles carried by the rods and arranged adjacent to the single studs, whereby the single studs will be drawn outwardly of the sockets prior to the other studs.

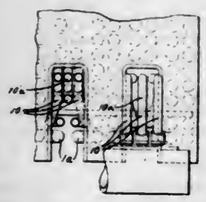
1,454,099. AUTOMOBILE LOCK. AMBROSE E. ZIRRICK, New York, N. Y. Filed May 3, 1922. Serial No. 558,097. 2 Claims. (Cl. 70—120.)

1. A steering gear lock comprising a housing, means for securing it to the upper extremity of a steering post, a sleeve-like journal carried by said housing, a cage or gear holding member rotatably mounted upon said sleeve-like journal and having portions protruding down between the planetary gears of the steering shaft, said sleeve-like journal rotatably receiving the steering shaft therethrough, a key lock carried by said housing, a plunger bolt actuated by said key lock, said cage or gear holding member provided with inwardly extending open-



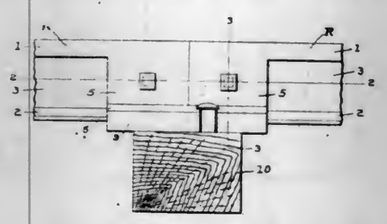
ings adapted to receive said plunger bolt therein and be held against movement thereby, and resilient means facilitating the movements of said plunger.

1,454,100. BOILER WITH SUPERHEATER. JOHN A. BARNES, West New Brighton, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 17, 1919. Serial No. 277,502. 3 Claims. (Cl. 122—478.)



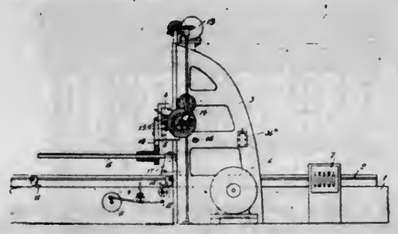
1. In a boiler, the combination of a header; a second header opposite the first, and shorter than it but having a series of spaced downward extensions making the overall length of the two headers substantially the same; water tubes connecting the second header and its extensions to the first header; and a superheater comprising tubular units located in the spaces between the water tubes connected to the extensions.

1,454,101. RAILWAY CONSTRUCTION. CYRILLE BELANGER and JOHN CARON, Quimby, Me. Filed Apr. 8, 1922. Serial No. 550,828. 2 Claims. (Cl. 238—248.)



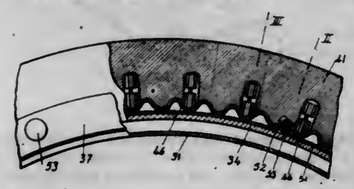
1. Rails having their ends provided with aligning pockets, plates having opposed beveled confronting edges received in the pockets, and means passing through the pockets and plates for contacting the plates to force the same away from each other and in contacting engagement with the respective upper and lower walls of the pockets.

1,454,102. BROACHING MECHANISM. HAROLD I. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 11, 1919. Serial No. 310,062. 13 Claims. (Cl. 90—33.)



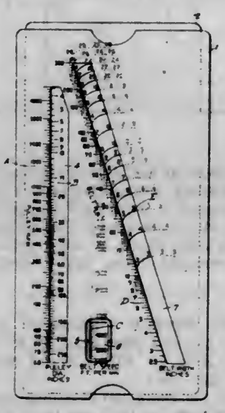
1. In a mechanism for broaching, the combination of a work holder, a holder for a broaching tool, an electric motor connected with one of the said holders for moving it relatively to the other, a manually operable switch for starting the motor in the broaching direction, means for automatically reversing the motor at the end of the broaching stroke to reverse the direction of relative movement, and means for automatically stopping the motor at the end of the return stroke.

1,454,103. SOLID TIRE FOR WHEELS. VALENTIN MARTI CABRETOSA, Barcelona, Spain. Filed Dec. 4, 1922. Serial No. 604,882. 3 Claims. (Cl. 152—1.)



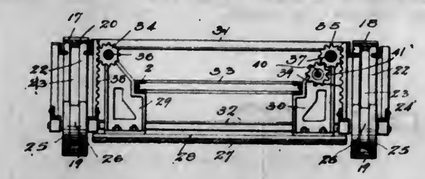
1. A solid india-rubber tire for vehicles, having a series of cavities in its interior, channels communicating said cavities with the atmosphere, and separate india-rubber members positioned in and partly filling said cavities.

1,454,104. CALCULATOR. FREDERICK W. CALDWELL, Schenectady, N. Y. Filed Aug. 11, 1921. Serial No. 491,612. 5 Claims. (Cl. 235—70.)



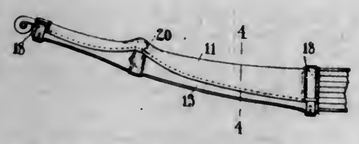
1. A belt calculator comprising a pair of members arranged to be relatively moved according to the log of belt speed, a plurality of curves logarithmically spaced according to belt width on one of said members and a scale on the other member logarithmically divided according to belt horsepower arranged to cooperate with said curves and means whereby said scale moves over said curves upon the relative movement of said members.

1,454,105. MOTOR VEHICLE. SAMUEL A. COFFEY and JOHN B. ERNSDORFF, Yakima, Wash. Filed May 27, 1921. Serial No. 472,991. 3 Claims. (Cl. 180—5.)



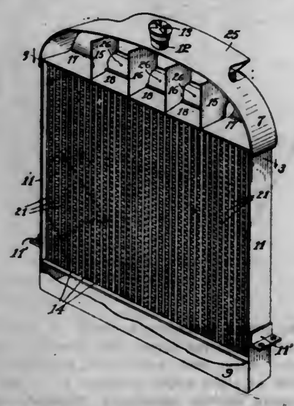
2. The combination in a motor vehicle with a main frame and side frames and traction devices in said side frames, of a sled fixed to the main frame and a transverse bolster thereon, a slide block at each end of said bolster, vertical guide bars in said side frames for said blocks, and means for changing the relative position of the side frames and sled.

1,454,106. SPRING COVER FOR MOTOR CARS OR OTHER VEHICLES. WILLIAM FREDERICK COTTRELL, Bristol, England. Filed Mar. 2, 1921. Serial No. 449,057. 5 Claims. (Cl. 267—37.)



1. A cover for springs of motor cars and other vehicles comprising a covering member having longitudinal edges, means incorporated in the covering member for permitting variation of the transverse dimension of said member independently of stretching of said member, and means for fastening the longitudinal edges together.

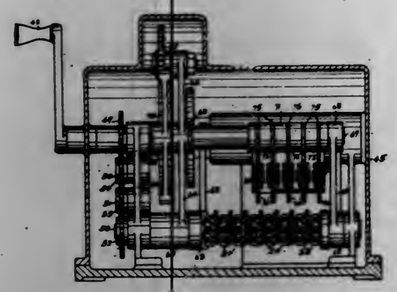
1,454,107. LIQUID-COOLING RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed July 18, 1919. Serial No. 311,861. 10 Claims. (Cl. 257—130.)



1. In liquid cooling radiators, vertical tubes arranged in parallel and spaced relation, and corrugated members

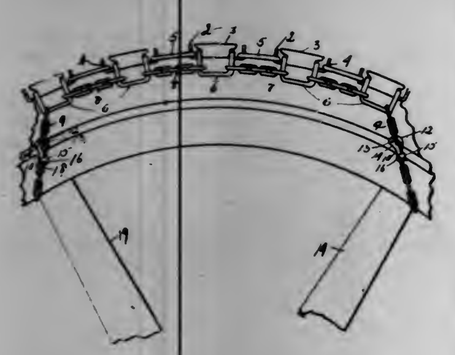
to engage in the spaces between the tubes with the corrugations arranged to cause the air currents passing through the spaces to converge in the rear of the radiator.

1,454,108. TRANSFER ADDING AND TOTALING MACHINE. THOMAS K. DIXON, ALEXANDER KLEIN, JESSE C. COX, and GEORGE R. GHENT, Houston, Tex., assignors to Dixon Development Company, Houston, Tex., a Corporation of Texas. Filed July 12, 1921. Serial No. 484,259. 20 Claims. (Cl. 235—1.)



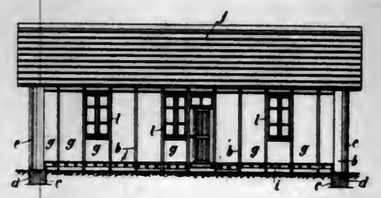
1. The combination with a total retaining device of an adding machine detachable from said device but adapted to be combined therewith, and mechanism included in said retaining device whereby the total sum indicated by said machine is transferred to said retaining device and said machine is restored to zero.

1,454,109. NONSLIP GUARD FOR AUTOMOBILE TIRES. GILES A. IOTT, Davenport, Iowa. Filed May 21, 1920. Serial No. 383,065. 2 Claims. (Cl. 152—14.)



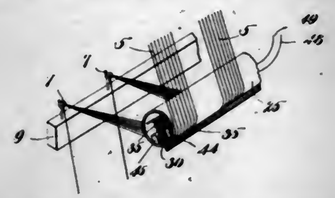
1. A non-slip guard including a series of plates, each plate having four radiating arms, road engaging elements formed integral with said arms and projecting from their outer ends at right angles thereto, all of said road-engaging elements having oppositely disposed undercut recesses in their side edges and links connected to the road engaging elements and resting in said recesses.

1,454,110. HOUSE CONSTRUCTION. EMILE FEUILLETTE, Boulogne-sur-Seine, France. Filed June 6, 1921. Serial No. 475,520. 7 Claims. (Cl. 20—4.)



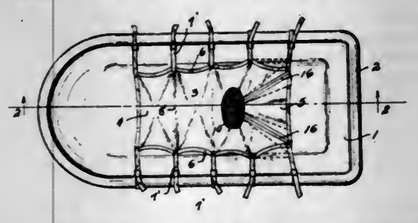
1. In a house construction, vertical latticed struts, a reinforcement formed by said struts arranged parallel, and parallelopipedic blocks of compressed vegetal fibrous material located between the struts and having their fibers vertically arranged.

1,454,111. DETECTING MECHANISM. MILLARD F. FIELD, Winthrop, Mass. Filed Feb. 28, 1922. Serial No. 539,976. 4 Claims. (Cl. 117—28.)



1. Thread detecting and indicating mechanism, comprising a plurality of detectors, a tubular member carrying, enclosing, guarding and protecting the detectors, and spaced guides for the detectors.

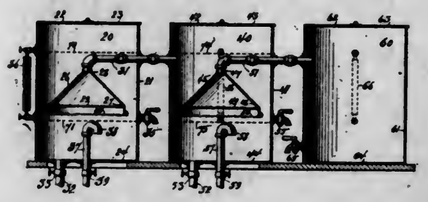
1,454,112. BATH SUPPORT. REBECCA GRAVES, Spokane, Wash. Filed Dec. 15, 1922. Serial No. 607,223. 3 Claims. (Cl. 4—27.)



1. A bath support of flexible material having separately adjustable suspending means attached at opposite edges thereof and arranged in pairs, said support having a foot portion formed with a drain, and plackets extending from its center to its edge, pleats in said plackets, and means for closing or partially closing said plackets.

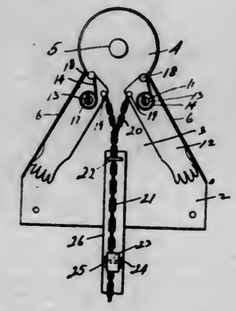
1,454,113. OIL FILTER. CLARENCE A. HAMILTON, Brooklyn, N. Y., and BENJAMIN F. NOYES, Bayonne, N. J. Filed Aug. 25, 1920. Serial No. 406,004. 1 Claim. (Cl. 210—44.)

In a filter of the character described the combination of a plurality of tanks on the same level, a funnel shaped outlet fitting in the first tank positioned with its large inlet end below its apex, a screen and filter cloth at the large inlet end of the fitting, a cock connected to the tank to drain off fluid that has been separated from a portion of its impurities and heavy fluids previously held in suspension, drain piping connected to the bottom of the tank to drain off settlings and heavy fluids located adjacent to the bottom of the tank, a drain pipe connected to the bottom of the tank and extending up into the same, a second tank, piping leading from the outlet at the apex of the outlet fitting in the first tank to the second tank, a funnel shaped outlet fitting in the second tank positioned with its large inlet end below its apex, a screen and a filter cloth at the large inlet end of the second fitting, a



cock connected to second tank at the same level with the cock connected to the first tank, to drain off the fluid in said second tank that has separated therefrom a portion of its impurities and heavy fluids previously held in suspension, drain piping connected to the bottom of the tank to drain off settlings and heavy fluids located adjacent to the bottom of the tank, a drain pipe connected to the bottom of the second tank and extending up into the same, a third tank, piping extending from the outlet end of the fitting in the second tank to the third tank, the latter piping on a level with the piping between the first and second tank, and an outlet cock for the third tank.

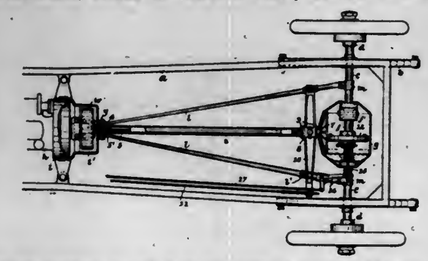
1,454,114. VEHICLE SIGNAL. ANTHONY HELLEBRAND, Philadelphia, Pa. Filed Dec. 3, 1921. Serial No. 519,595. 2 Claims. (Cl. 116—52.)



1. A vehicle signal consisting of a front plate including a body and head, portions of the side edges of said body converging toward the head, flanges carried by the angular edges of the body and having slots therethrough and a lamp hood forming a continuation of said flanges and connected with the head, the lower portion of said hood being open to permit the projection of light rays on to a portion of the outside of the casing.

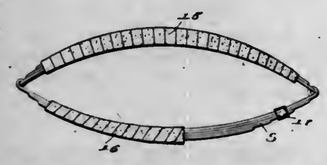
1,454,115. MOTOR-DRIVEN VEHICLE. SHERIDAN F. HOLDEN, Paterson, N. J. Filed Aug. 22, 1921. Serial No. 494,356. 3 Claims. (Cl. 180—73.)

2. In combination, with the driving axle, a carrier structure, means to support the carrier structure resiliently on the driving axle, a rotating pinion-including member and a rotary internal gear-including member journaled in said structure and having their pinion and gear in mesh with each other, means to transmit rotary motion from the



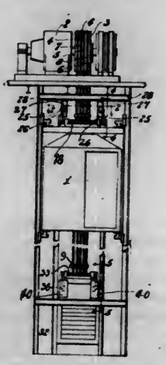
latter member to the axle including a power-transmitting member flexibly connected to said latter member, the first-named means having means affording a bearing for the power-transmitting member.

1,454,116. SPRING-LUBRICATING DEVICE. JAMES MADISON JACKSON, Parkersburg, W. Va. Filed July 20, 1922. Serial No. 576,326. 5 Claims. (Cl. 267—37.)



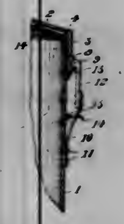
4. A spring lubricating device comprising flat strips of absorbent material and of soft or ductile metal approximately of the same width and fitted face to face, means for securing the flat strips together, the metal plate being provided with perforations for the passage of securing means, the secured strips being adapted to be wrapped around the vehicle spring or any portion thereof.

1,454,117. ELEVATOR. NAPOLFON P. JULIEN, Springfield, Mass. Filed Aug. 25, 1922. Serial No. 584,198. 7 Claims. (Cl. 187—1.)



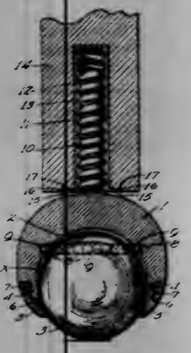
5. An apparatus for the purpose described and comprising in combination with the cables of an elevator mechanism, a gear secured to the ends of each of the cables, means carried by the car and counterweight respectively for rotating the gears and the cables, means for causing the cables to be automatically rotated in opposite directions and including abutments, operative means between the abutments and the means on the car for rotating the gears, and means for returning and maintaining the gear operating means in their initial positions.

1,454,118. COVER FOR BOILERS. PAUL KARSACK, Cleveland, Ohio. Filed Mar. 23, 1922. Serial No. 546,094. 1 Claim. (Cl. 220—55.)



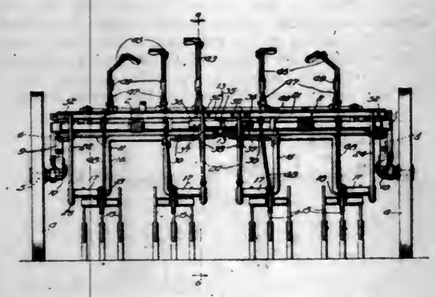
In a device of the class described, a boiler, a cover therefor, a depending side flange carried by the cover and closing the upper end of the boiler, diametrically opposite lugs carried by said flange with a socket formed in the outer face of each lug, a spring strip secured at one end to the side wall of the boiler, a rigidlocking arm fixed to the other end of the spring strip and carrying an angle lug at the upper end adapted to be received in the lug recess to retain the cover in position on the boiler, and a U-shaped strap hinged to the boiler enclosing the spring strip and adapted to be moved into engagement with said spring strip to cause the lug carried by the locking arm to be received in the recess formed in the cover flange lug.

1,454,119. CASTER. HERMANN R. KNAACK, Chicago, Ill. Filed Mar. 31, 1921. Serial No. 457,388. 1 Claim. (Cl. 16—26.)



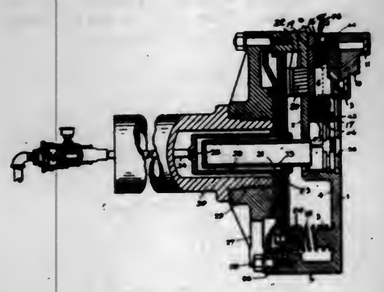
The combination with an interiorly threaded tubular socket having a smooth outer surface, a flange at its open end, and inwardly extending prongs adapted to be embedded in the leg of an article, of a ball carrying member having a threaded shank adapted to be removably received in said tubular member, said member having a cylindrical recess with a spherical end, a ball of the same diameter as the diameter of the cylindrical portion of said recess being rotatably disposed in said recess, said recess being formed with an annular ball receiving groove in its spherical-shaped end, said groove being semi-spherical in cross section and being disposed substantially midway between the bottom and the top of said recess, a plurality of small ball bearings carried by said groove and being adapted to prevent said ball from moving inwardly or laterally with respect to said recess, and a ball retaining ring threaded onto said ball carrying member and having a spherical-shaped opening of the same diameter as said ball.

1,454,120. DOUBLE-ROW CULTIVATOR. ALVARO S. KROTZ, Janesville, Wis., assignor, by mesne assignments, to General Motors Corporation, a Corporation of Delaware. Filed May 9, 1918. Serial No. 233,523. 22 Claims. (Cl. 97—155.)



5. A cultivating machine comprising a pair of gang-arches, cultivator gangs connected to said gang-arches, means to support said gang-arches, an element mounted to rotate about a vertically disposed axis, links connecting the element with said gang-arches, so that partial rotation of said element will move the gang-arches toward or away from each other, means for locking said element in adjusted position, and means to shift said arches and element and links bodily to shift the gangs laterally.

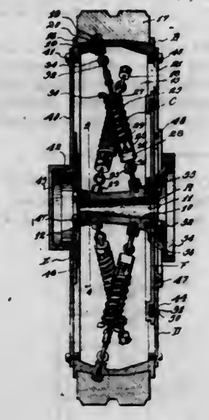
1,454,121. CHUCK. ALPHONSE JOSEPH LAVOIE, Montreal, Quebec, Canada. Filed Dec. 27, 1919. Serial No. 347,835. 2 Claims. (Cl. 279—121.)



1. A chuck comprising a body and a plurality of radially movable jaws, jaw bases slidable in said body in combination with a reciprocating member carrying jaw operating dogs having an inclined engagement with said jaw bases, said dogs having a radial slip-in engagement with said reciprocating member and a longitudinal sliding engagement with the chuck body guiding and maintaining the line of movement of said dogs parallel with the axis of said chuck.

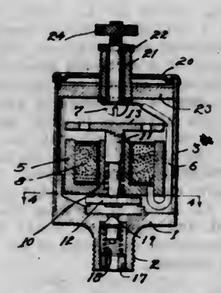
1,454,122. VEHICLE WHEEL. BYRON B. LORENZ, Cape Girardeau, Mo. Filed Jan. 4, 1922. Serial No. 527,092. 2 Claims. (Cl. 152—52.)

2. In a resilient wheel, a hub having a row of retaining sockets formed on each side of the circumferential center thereof, a felly surrounding the hub having a row of inclined retaining sockets formed on the opposite sides of the circumferential center thereof, oppositely inclined coil springs, eye bolts adjustably fitted within all of the sockets, spring retaining members extending through said springs and engaging the opposite terminals thereof,



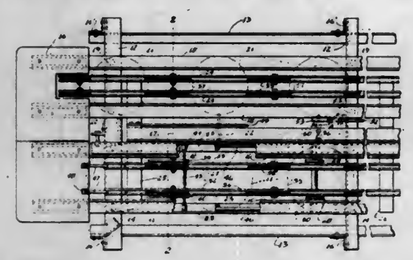
and adjustable members carried by the free terminals of the spring retaining members and engaging said adjustable eye bolts.

1,454,123. ELECTRICALLY-OPERATED OIL CUP. RALPH R. MCCLURE, San Francisco, Calif., assignor, by direct and mesne assignments, to McClure Electric Oiling System, a Corporation of California. Filed Oct. 20, 1921. Serial No. 509,033. 5 Claims. (Cl. 184—67.)



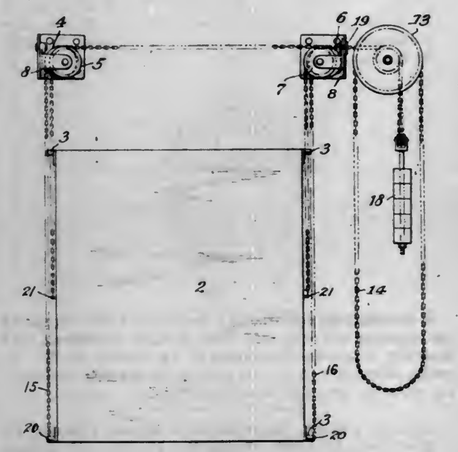
5. An oil cup comprising a base, a shell extending upwardly therefrom, said base provided with a tubular mounting nipple affording an oil outlet, a cup forming shell extending upwardly from the periphery of the base, said base provided with an upstanding flange, a magnet core frictionally held thereby with portions in spaced relation to said shell, affording an oil passage therebetween, said base provided on its interior with radial channels terminating in a sump surrounding said outlet and at their outer ends communicating with said oil passage, a magnet spool carried by said core, a valve stem operating therethrough, a piston on the lower end thereof for operating in said sump, an armature at the upper end of said piston, a spring for normally maintaining said armature spaced from said magnet and the piston raised from said sump, a supporting spider engaging the upper walls of said cup, a tubular stem threaded on its exterior and extending upwardly from the center thereof, a binding post within said stem and insulated therefrom, a connection between said magnet and binding post, and a cup cover adjustably threaded on said stem.

1,454,124. CAN-WASHING MACHINE. CHARLES F. MCEWAN, Oak Park, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed Mar. 16, 1922. Serial No. 544,371. 39 Claims. (Cl. 198—219.)



1. A can washing machine comprising a guidway along which cans are adapted to be moved; a carriage mounted to reciprocate along said guide-way; and a member carried by said carriage adapted to releasably engage cans to be moved along said guide-way and adapted to cause said carriage to move in the direction of travel of said cans.

1,454,125. PIER DOOR. LESLIE MCHARG, Freeport, N. Y. Filed Aug. 30, 1921. Serial No. 496,800. 3 Claims. (Cl. 20—19.)

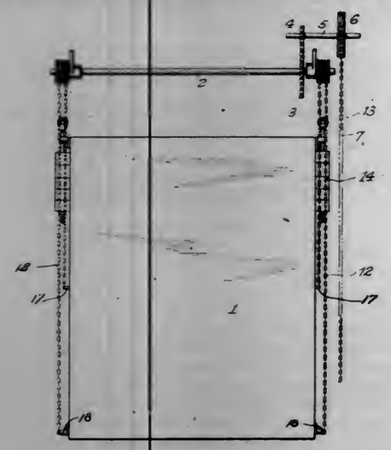


1. The combination with a pier shed door of a driving shaft for controlling the same supported at one side of the door, four pulleys on said shaft, two fixed and two loose, two idose pulleys over each upper corner of the door, cords passing over each pair of loose and the pair of fixed pulleys, and a weight carried by the same, the said cords being connected respectively to the bottom and the middle of the edges of the door.

1,454,126. PIER DOOR. LESLIE MCHARG, Freeport, N. Y. Filed Aug. 30, 1921. Serial No. 496,801. 2 Claims. (Cl. 20—19.)

1. The combination with a pier door, of a shaft with means for rotating the same for opening or closing the door, sleeves rotatably mounted in stationary bearings and affording the bearings in which the shaft turns, two sheaves fixed to the shaft, two sheaves fixed to the sleeves, chains running over said sheaves and connected at their

ends to the bottom and middle points of the sides of the door, idler sheaves carried by the chains, counterbalanc-



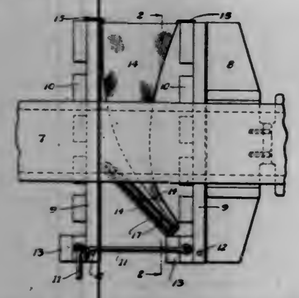
ing weights suspended from said idler sheaves and guides for said door by which it is shifted when rising from a vertical to a horizontal position.

1,454,127. WATCH CHARM AND THE LIKE. JAMES MURDOCK MCLEAN and GEORGE THOMAS MUNN, New Waterford, Nova Scotia, Canada. Filed Jan. 22, 1920. Serial No. 353,372. 1 Claim. (Cl. 88—16.)



A thaumatrope comprising a frame and a disk supported for rotation therein, said disk bearing incomplete and mutually dependent fragments of an emblem on the opposite sides thereof, the fragments on one side intersecting those on the other side.

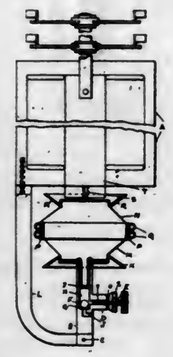
1,454,128. PRESS. KATHERYNE P. MALON, Chicago, Ill. Filed Jan. 23, 1922. Serial No. 531,280. 11 Claims. (Cl. 100—54.)



1. A press comprising adjoining pressure members; and a filter bag of flexible material inserted between said members, said bag being open at one end and a complete portion of the open end of said bag being folded upon itself and arranged between said pressure members so as to cause said complete folded end to press against the side of said bag upon the approach of said pressure members, substantially as described.

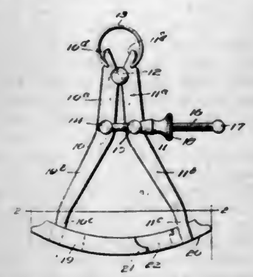
7. A filter bag for presses made with a normally open end and a stiffening plate arranged across one side of said bag adjacent the open end thereof, said bag being adapted and arranged to be folded against one side of said plate for sealing purposes, substantially as described.

1,454,129. BELLOWS MECHANISM FOR ELECTRIC RELAYS. OLIVER J. MARSHICK, Detroit, Mich. Filed May 3, 1918. Serial No. 232,407. 5 Claims. (Cl. 188—94.)



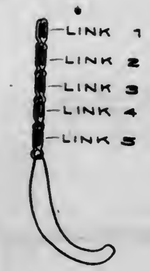
1. A retarding device for an electric relay, having in combination a fluid-tight bellows member adapted to be drawn to expanded position by the pull substantially lengthwise thereof of a connected external member, the relatively flexible walls of said bellows being adapted to compensate for possible variations in alignment of the parts by negligible differences in their degree of expansion on one side as contrasted with the other, a pipe connected with the opposite end of the bellows member from that externally connected with the expanding means, a normally closed valve in said pipe adapted to be unseated by the inrush of air when the bellows member is distended, and regulatable means connected with said pipe for permitting the escape of air from said bellows during its deflation.

1,454,130. MEASURING INSTRUMENT. CLARENCE H. MERRITT, Heppner, Oreg. Filed Feb. 27, 1922. Serial No. 539,521. 4 Claims. (Cl. 33—148.)



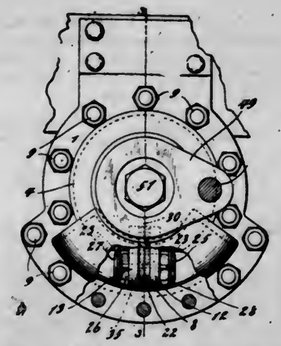
1. In a measuring instrument as characterized, a pair of leg sections one pivoted to the other adjacent their upper ends, arms extending between said leg sections below the pivotal point thereof and overlapping one another at their inner ends and projecting from said legs at their outer ends, one of said arms having a graduated scale thereon and cooperative with the adjacent end of the other of said arms, and means for adjusting said leg sections.

1,454,131. PUZZLE. EARL J. MILLER, Bethlehem, Pa. Filed Sept. 23, 1921. Serial No. 502,732. 2 Claims. (Cl. 46—41.)



1. An article of manufacture comprising a chain of the so-called safety type composed of two or more assembled links, and a flexible, endless cord engaging one of said links to form a puzzle, the solution of which consists in the disengagement of said cord from said chain without disassembling the chain or severing said cord.

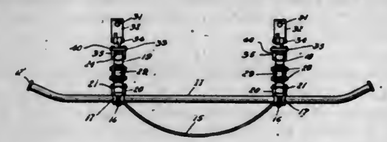
1,454,132. SHOCK ABSORBER. RICHARD S. M. MITCHELL, Bridgeport, Conn. Filed Jan. 10, 1920, Serial No. 350,534. Renewed Sept. 27, 1922. Serial No. 591,005. 20 Claims. (Cl. 188—89.)



1. A shock absorber for controlling the relative movement of two bodies, comprising two concentric members, connecting means between each of said members and each of said bodies so arranged that relative motion of the bodies produces a relative rotative movement of the concentric members, a cylinder of the form of a sector of an annulus borne by one of said concentric members, a piston in said cylinder attached to the other of said concentric members, and a fluid in said cylinder.

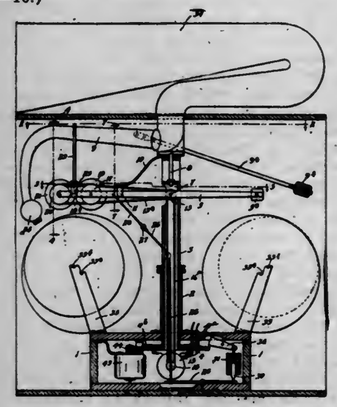
1,454,133. VEHICLE BUMPER. JAMES A. NOMICOS, Chicago, Ill. Filed July 28, 1922. Serial No. 578,083. 14 Claims. (Cl. 293—55.)

2. A bumper of the class described including oppositely disposed hollow supports comprising parts fixed together, caps closing the open ends of said supports, bumper bars carried by said supports, means carried by said supports for cushioning the resistance of said bumper bars, means for attaching said cushioning means to the chassis of a vehicle, and shock absorbing means



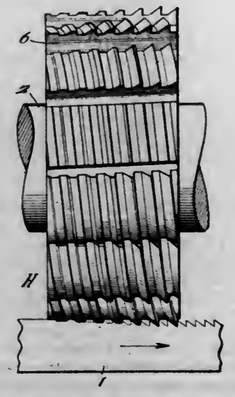
disposed between said cushioning means and said attaching means.

1,454,134. SOUND-REPRODUCING MACHINE. ALBERT G. NYQUIST, Minneapolis, Minn.; Hilda L. Nyquist administratrix of said Albert G. Nyquist, deceased. Filed Jan. 14, 1921. Serial No. 437,184. 28 Claims. (Cl. 274—10.)



1. A sound reproducing machine having in combination, means for supporting a plurality of disk records in vertical position substantially radially about a central point, and sound reproducing means movable into engagement with any one of said records for playing the same.

1,454,135. HOB. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Oct. 27, 1920. Serial No. 419,823. 3 Claims. (Cl. 29—103.)



2. A device of the class described having relieved cutting teeth the bodies whereof conform to a helix lead-

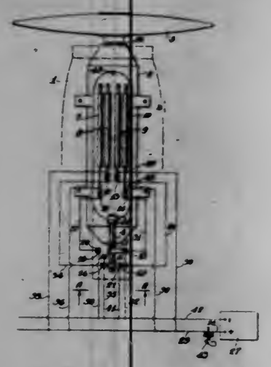
ing in one direction and the cutting faces whereof occur in a feed helix leading in the opposite direction, the teeth being staggered whereby one tooth cuts one side of any given tooth in the work, and the next one cuts the other side of it.

1,454,136. LEAD PENCIL. ABRAHAM POLLAK, New York, N. Y., assignor to Samuel Kanner, New York, N. Y. Filed Mar. 30, 1922. Serial No. 548,104. 12 Claims. (Cl. 120—18.)



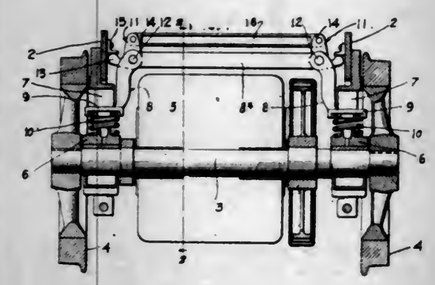
10. In a lead pencil, a longitudinal guiding tube, a lead-holding clutch member slidable therein and having a hole in its rear head end, means for arresting said clutch member on its extreme forward movement, a propeller rod freely passing through said hole and having a forward head within said clutch member to engage the lead when the rod is moved forwardly and said head end when the rod is moved rearwardly to retract said clutch member, a guiding head on the rear end of said rod, a spiral rod connected with said guiding-head, a nut engaging said spiral rod, exposed means for rotating said nut and thereby imparting longitudinal movement to said spiral rod and propeller rod, a friction clutch on and engaging said rod and normally maintaining said lead-holding member and the forward head on the propeller rod in engagement with each other and permitting said rod to slide forwardly through said member to eject the lead when said member is arrested, and a second friction clutch on said rod engaging said guiding tube and normally free on said rod and positioned to be engaged by said guiding head and moved against said first clutch when said rod has moved forwardly to its lead-ejecting position, thereby to prevent the first clutch from moving rearwardly with said rod until the rear end of the forward head on the rod again engages the inner end of said member.

1,454,137. SYNCHRONIZED MACHINE GUN FOR AIRPLANES. OSCAR A. ROSS, New York, N. Y. Filed Sept. 14, 1918. Serial No. 254,154. 3 Claims. (Cl. 89—28.)



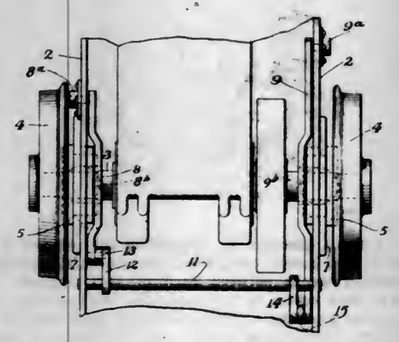
1. An airplane, a motor therefor, having a propeller driven thereby, a plurality of machine guns mounted on said airplane and adapted to fire between the blades of said propeller, means actuated by said motor for firing each one of said guns in a given sequence in synchronism with said propeller blades and a plurality of the guns during the time elapsing between the passing of a given point by one propeller blade and the passing of the same point by another propeller blade.

1,454,138. LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1922, Serial No. 530,872. Renewed Mar. 19, 1923. 3 Claims. (Cl. 105—82.)



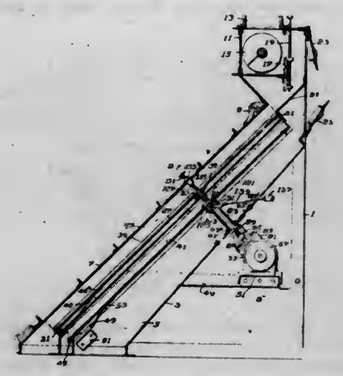
1. In a car, a frame, an axle, a rigid supporting member connected to opposite ends of said axle and movable vertically therewith respective to said frame, a pair of rocking members at opposite sides of the frame and interposed between said rigid member and said frame, and means operatively connecting said rocking members together.

1,454,139. LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 23, 1922, Serial No. 531,074. Renewed Mar. 19, 1923. 3 Claims. (Cl. 105—82.)



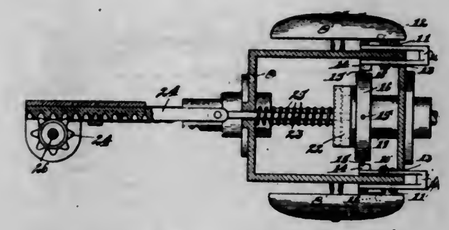
1. In a car, a frame, an axle movable in a substantially vertical plane respective to said frame, and an equalizing device comprising a pair of longitudinally extending bars each pivotally mounted on the frame adjacent opposite ends of said axle in supporting engagement therewith, and means operatively connecting said bars together, including a transversely disposed torsion member pivotally mounted on the frame.

1,454,140. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed July 7, 1922. Serial No. 573,432. 17 Claims. (Cl. 83—56.)



1. A separator for grading materials, comprising, in combination, a screen, a support therefor beneath the screen, and means for vibrating said support and screen including an eccentric mechanism connected to said support and having minute eccentricity and rotatable at high speed, said screen being unattached to said support, that it may float and tremble on the support with independent vibrations.

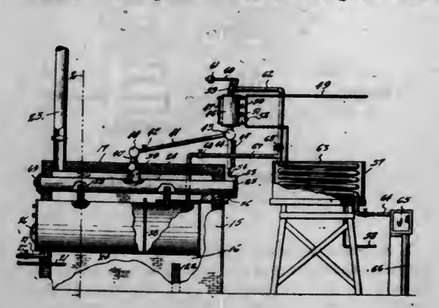
1,454,141. AUTOMOBILE ALARM SIGNAL. EDWARD THOMAS, East Chicago, Ind. Filed Sept. 23, 1918. Serial No. 255,311. 6 Claims. (Cl. 116—33.)



3. The combination with a shaft of an automobile, of a signal bell in operative relation therewith; a spring-actuated hammer arranged to sound said bell; an actuating and a clutch member mounted on said shaft, one of said members being fixed to said shaft and the other loose thereon; a spring normally holding said clutch and actuating members in operative engagement with each other; an actuating rod arranged to separate said members; a rack bar on said rod; a pinion meshing with said rack bar; an actuating shaft fixed to said pinion and arranged in operative relation with the automobile driver's seat; and means for locking said shaft in position to hold said actuating and clutch members separated, substantially as described.

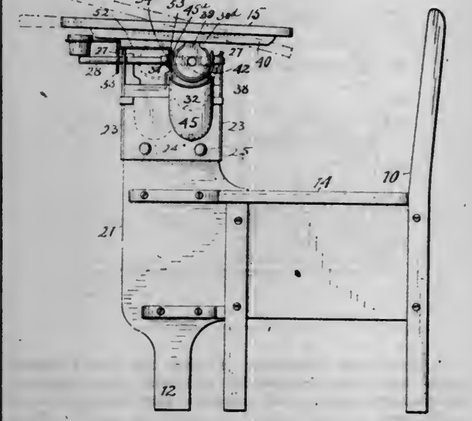
1,454,142. MEANS FOR CRACKING HYDROCARBONS. HARRY A. WIER and STUART A. WIER, Dallas, Tex. Filed Apr. 12, 1920. Serial No. 373,111. 7 Claims. (Cl. 196—3.)

1. In an apparatus for cracking hydrocarbons, a still housing having a combustion chamber in its bottom, an approximately horizontal main still disposed within the still housing above the combustion chamber with its sides disposed adjacent the side walls of the still housing, said main still terminating at a point spaced forwardly from the rear end wall of the still housing, providing an upstanding gas passage, an approximately horizontal secondary still arranged in the still housing above and



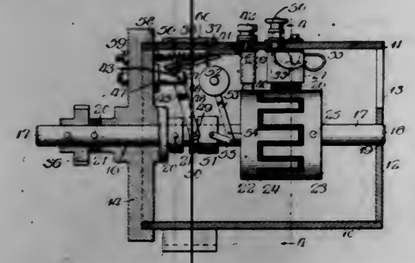
spaced from the main still with its ends projecting through the end walls of the still housing, upstanding pipes connected with the top of the main still and extending through the bottom of the secondary still into the same and terminating above the bottom of the secondary still, and a condenser connected with the upper secondary still.

1,454,143. SEAT DESK. CHRISTOPHER WINKEL, Cleveland, Ohio, assignor to The Theodor Kundtz Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1921. Serial No. 448,150. 12 Claims. (Cl. 45—6.)



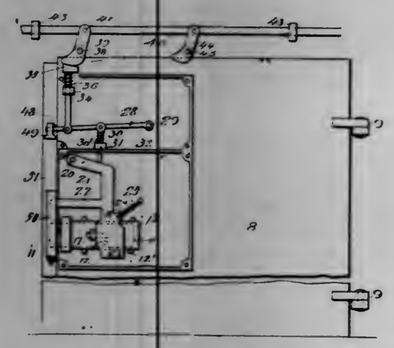
1. In an adjustable table, the combination of a standard, a horizontal shaft mounted on the upper end of said standard, a bracket supported at one end by said shaft and provided with a depending arm for engagement with the standard when the bracket is in horisontal position,—said bracket being capable of turning about the axis of said shaft and of moving in the direction of the axis of said shaft, table supporting means pivoted to said bracket on a transverse horizontal axis, a table fixed to said table supporting means, and means to secure said table supporting means to the bracket in any desired position relative thereto.

1,454,144. RECTIFIER OR CONVERTER. ERNEST A. ZADIG, Chicago, Ill. Filed Nov. 24, 1919. Serial No. 340,200. 4 Claims. (Cl. 175—364.)



1. A commutator, a commutator shaft, a cut out embodying separable contact terminals, a pivotally mounted element to which one of the said terminals is connected, yielding means tending normally to move the said element in one direction to separate the terminals, a collar slidable upon the shaft and operatively connected with the said element for rocking the latter when the collar is shifted on the shaft, and a governor pivotally connected with the said shaft and operatively connected with the said collar, said governor operating to shift said collar against the stress of the said yielding means to shift the contact terminal that is connected with the said element.

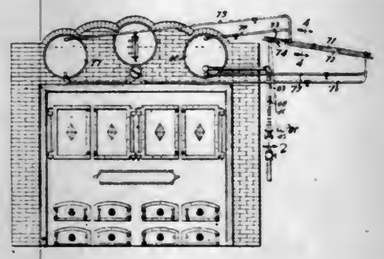
1,454,145. PRISON LOCK. VAN BUREN ALLEN, Brooklyn, N. Y., assignor of one-half to Willgott Klingberg and Wesley Earl Klingberg, both of New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,030. 11 Claims. (Cl. 70—74.)



3. In a lock mechanism, a main bolt and auxiliary bolts, lock engaging seats for said bolts, means for simultaneously moving said auxiliary bolts into or out of said seats, and an extension on one of said auxiliary bolts whereby said main bolt is moved.

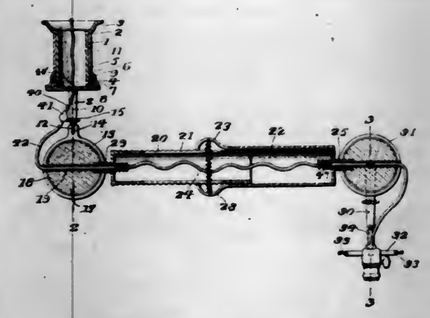
1,454,146. BOILER FEED-WATER REGULATOR. ROGER W. ANDREWS, Pittsburgh, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Original application filed June 7, 1918, Serial No. 238,765. Divided and this application filed Aug. 25, 1921. Serial No. 495,323. 3 Claims. (Cl. 122—451.1.)

1. The combination of a boiler, two feed-water regulators and a feed-water valve, said valve comprising a plunger and a seat therefor, said plunger and seat being relatively movable rotationally and longitudinally, the first of said feed-water regulators being operatively connected with said boiler and with said valve and arranged to move said plunger and seat relatively longitudinally, and the second of said feed-water regulators being operatively connected with said boiler at a portion of said boiler remote from the point of connection of said first



regulator, said second regulator being also operatively connected with said valve and adapted to move said plunger and seat relatively rotationally, said plunger and seat when in one relative position forming an opening through said valve, and said opening being varied as said plunger and seat are moved relatively either rotationally or longitudinally.

1,454,147. LIGHT SUPPORT. THEODORE GEORGE BERMAN, Antigo, Wis. Filed Sept. 8, 1920. Serial No. 408,899. 1 Claim. (Cl. 240—73.)

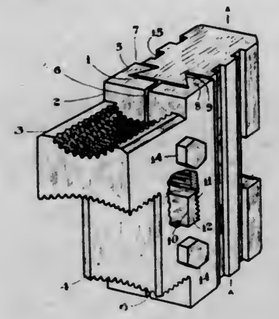


A light support including a pair of swivel members, a tube secured to and extending from one of the swivels and having its outer end open, said open end being formed with a pair of inwardly directed resilient fingers, and a tube secured to the other swivel and extending into the open end of the first tube for slidable adjustment therein, the said second tube being longitudinally slotted in opposite sides and formed with transverse corrugations with which the fingers engage, and a spring disposed transversely of the second tube and through the said slots and being secured to said fingers.

1,454,148. CHUCK JAW. DAVID LOGAN BISSET, Montreal, Quebec, Canada, assignor to P. Lyall & Sons Construction Company, Limited, Montreal, Quebec, Canada. Filed Nov. 22, 1920. Serial No. 425,889. 1 Claim. (Cl. 279—123.)

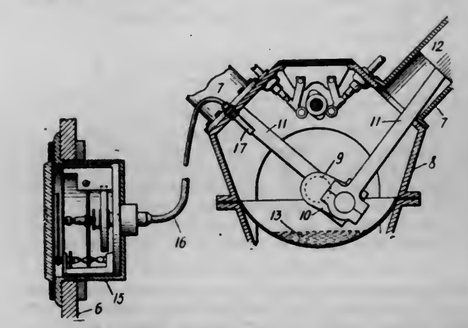
A chuck jaw comprising a gripping member having a longitudinally split back and a dovetail groove and a transverse key slot in said back and stepped grips projecting outwardly from said back, the outer one of said grips having recessed roughened surfaces and forming

a reversible gripping member, a base having a tongue with transverse teeth across the outer face, a key in



said back slot having longitudinal teeth engaging the said transverse teeth and bolts through said back adapted to clamp the gripping member to said base.

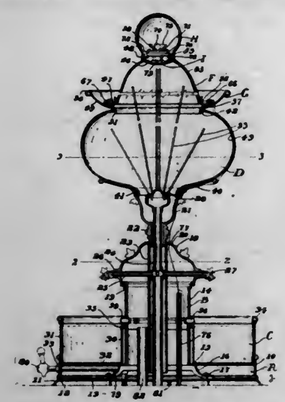
1,454,149. TEMPERATURE-INDICATING SYSTEM AND APPARATUS FOR INTERNAL COMBUSTION ENGINES. HARRISON HURLBUT BOYCE, Jericho, N. Y. Filed July 14, 1917, Serial No. 180,580. Renewed Oct. 2, 1922. Serial No. 591,973. 2 Claims. (Cl. 73—52.)



1. In a temperature indicating means for internal combustion engines having cylinders opening into the crank case, which also constitutes an oil reservoir, the combination with the crank case of a temperature indicating instrument having a temperature responsive element exposed within the crank case above the normal level of the oil when quiescent but so as to be subjected to the splashing and dripping of the oil when agitated by the running of the engines.

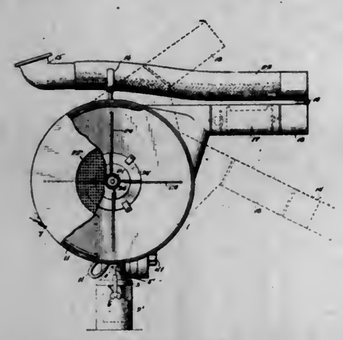
1,454,150. ORNAMENTAL FOUNTAIN. FREDERICK W. A. BROCKMILLER, St. Petersburg, Fla. Filed Mar. 14, 1921. Serial No. 452,225. 3 Claims. (Cl. 299—4.)

1. A fountain comprising a metallic base, a metallic pedestal carried by the base and arranged at the axial center thereof, an annular basin surrounding the pedestal and supported by the pedestal and base, the basin including an outer annular wall, an inner annular wall, and a connecting lower wall, the inner wall being provided with a reflecting surface, the lower wall being provided with an ornamental surface, transparent members carried by the upper end of the pedestal, an ornamental transparent member surmounting the first mentioned ornamental members, illuminating means disposed in the last mentioned transparent ornamental member, means for spraying water in the first mentioned transparent members, means for illuminating the first mentioned transparent members, means for conveying water from the transparent members through the pedestal to the base, means for



spraying water in the basin, and means for draining water from the basin and base.

1,454,151. ELECTRIC HAIR DRIER. RICHARD H. BROWN, New York, N. Y. Filed Feb. 24, 1921. Serial No. 447,377. 4 Claims. (Cl. 34—26.)

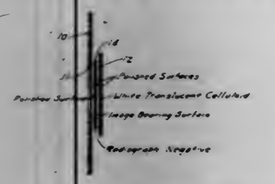


3. In an electric hair drier, a heating element adapted to be heated by the passage of an electric current, an electric motor adapted to drive air-driving means combined therewith for sending a current of air over the said element to be heated thereby when an electric current is passed through said element, controlling means including a switch mechanism and adapted to control the temperature of the air issuing from the said drier, said switch mechanism having a plurality of contacts and movable bearing means adapted to be actuated through a plurality of consecutive movements and occupy a plurality of different positions with respect to said contacts, the first position of said bearing means being adapted to cause a current to be sent only to said motor, the succeeding consecutive positions of said bearing means being adapted to cause electric current to be passed through said heating element also and also cause a lowering of the temperature of the air issuing from said drier by increasing the velocity of revolution of said motor in proportion to the amount of current supplied to said heating element.

1,454,152. DENTAL FILM MOUNT. ARTHUR W. BUCK, St. Louis, Mo. Filed Jan. 7, 1922. Serial No. 527,709. 2 Claims. (Cl. 40—159.)

1. A mount for radiographic films comprising a support of thin material having a central opening behind

which the film is adapted to be disposed, a back larger than the central opening and attached to the back of the support along three of its margins, said back being formed

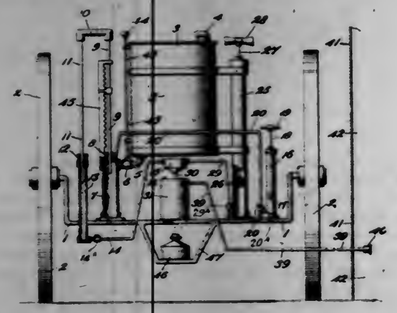


of a thin strip of translucent celluloid having both of its faces highly polished, said strip of celluloid being white in color.

1,454,153. PROCESS OF PREPARING SUGAR. JOHN CARR, Esher, and ARTHUR BENJAMIN BRADLEY, Fulham Park, London, England. Filed Feb. 28, 1920. Serial No. 362,007. 1 Claim. (Cl. 127—17.)

The herein described method of preparing sugar suitable especially for use in the manufacture of chocolate, which consists in producing a sugar solution of between 55° to 65° Brix, cooking the solution at a temperature not substantially below 254° nor substantially above 262° Fahr., then passing the hot solution through a transforming apparatus and maintaining it therein at a temperature within 20° of the cooking temperature, and stirring and beating it until it crystallizes in the form of rounded, soft and easily crushed grains having dimensions of between one-twentieth and one-tenth of a millimeter and containing from about two to three per cent of moisture and not more than six per cent of invert sugar.

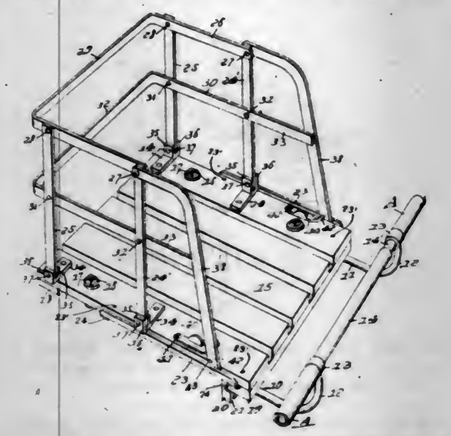
1,454,154. METHOD OF AND APPARATUS FOR FUMIGATING. KENNETH F. COOPER, Great Neck, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Jan. 25, 1921. Serial No. 439,784. 9 Claims. (Cl. 43—129.)



3. The process of fumigating with a volatile liquid fumigant which consists in mixing an inert gas with said fumigant; providing a heat storage reservoir; passing said mixed gas and fumigant through said reservoir to vaporize and superheat the same; and introducing said superheated mixed gas and vapor into the space to be fumigated, substantially as described.

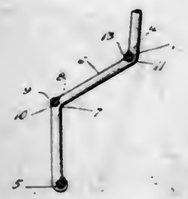
1,454,155. WINDOW BRACKET. JOHN A. CROZIER, Knoxville, Iowa. Filed May 26, 1921. Serial No. 472,737. 4 Claims. (Cl. 304—24.)

1. In a window bracket, a frame, a platform thereon, guides at the edges of the platform and spaced therefrom, a skeleton guard including standards pivotally connected to the platform, braces pivotally connected to the guard and having their ends extending downwardly and forwardly into the spaces between the guiding plates and the side edges of the platform, angularly projecting end



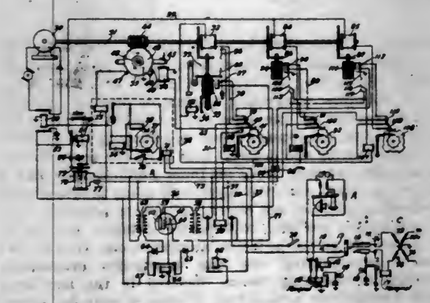
portions on the braces adapted to engage the under surface of the platform, and means for holding the braces in operative position.

1,454,156. WIRE JOINT. GUY DINCOGNITO, Chicago, Ill. Filed Jan. 6, 1923. Serial No. 610,982. 6 Claims. (Cl. 245—2.)



1. A joint of the character described comprising a member having a bend therein, said member being reduced at the inner side of said bend to form an undercut notch, and another member disposed at an angle to said first member and mounted in said notch.

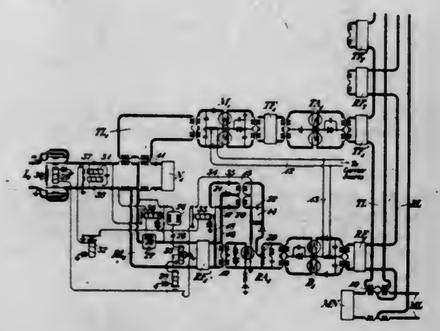
1,454,157. PHONOGRAPHIC RECORDING AND REPRODUCING SYSTEM. HENRY C. EGERTON, Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1918. Serial No. 245,757. 21 Claims. (Cl. 179—6.)



1. A recording system comprising a mechanical type record, a recorder operable to cut a record trace thereon,

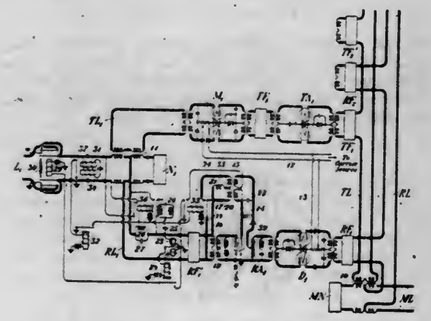
means to effect recording movement of both the record and the recorder, and automatic means controlling the means to effect recording movement in such a way that movement of neither the record nor the recorder takes place during appreciable pauses occurring in the delivery of the matter to be recorded.

1,454,158. MEANS FOR RINGING OVER MULTIPLEX TRANSMISSION CHANNELS. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 29, 1919. Serial No. 314,074. 4 Claims. (Cl. 179—4.)



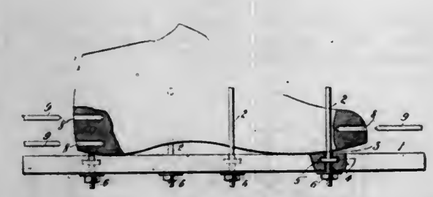
1. In a signaling system, a source of telephone currents, a source of currents of frequencies without the telephone range, a transmission circuit for transmitting from one source frequencies lying within the telephonic range, and for transmitting from the other source frequencies lying without said range, an amplifier in said circuit for amplifying all frequencies transmitted over said circuit, and means associated with said amplifier to give said amplifier a characteristic such that it will amplify certain frequencies without the telephone range to a greater degree than frequencies within said range.

1,454,159. MEANS FOR RINGING OVER MULTIPLEX TRANSMISSION CHANNELS. LLOYD ESPENSCHIED, Queens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 30, 1920. Serial No. 400,045. 8 Claims. Cl. 179—4.)



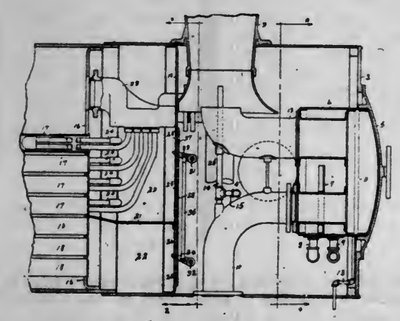
1. In a signaling system, a transmission path, an amplifier and circuits therefor associated with said path, and means whereby the circuits of said amplifier may be controlled over said path to convert the amplifier into a generator of oscillations.

1,454,160. METHOD OF RE-FORMING LASTS. JEREMIAH FITZPATRICK, Brockton, and CHARLES H. FITZPATRICK, North Abington, Mass. Filed Aug. 11, 1921. Serial No. 491,615. 3 Claims. (Cl. 142—1.)



1. The method of reforming a lot of lasts in a last turning lathe having a model follower and a cutter, comprising the making of a model last from one of said lot, fixing said model last whereby it may be arranged to turn in said lathe on a determined axis, fixing the other lasts of the lot whereby each may be arranged to turn in said lathe on a determined axis the same as that to the model last, fixing the model last and successively each of the other lasts in the lathe to turn on their respective determined axes without displaceability in any direction, and whereby also the model last and last to be reformed will occupy like relative positions the one to the model follower and the other to the cutter, otherwise arranging whereby the model follower and cutter will engage respectively the model last and last to be reformed at like points on the respective lasts during the cuttings, and then cutting in the usual manner.

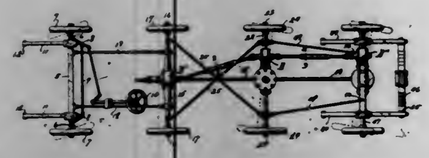
1,454,161. LOCOMOTIVE. MARTIN J. FURLONG, Houston, Tex. Filed May 3, 1920. Serial No. 378,632. 4 Claims. (Cl. 122—480.)



2. In a locomotive, a front tube sheet to support the front ends of the boiler tubes, a partition plate, spaced in front of the tube sheet, a transverse partition dividing said space into a super heater chamber above and a front end chamber beneath, said partition plate having outlets opposite the upper chamber and wider outlets opposite the lower chamber, a damper plate arranged adjacent said partition plate and provided with uniform draft openings, means actuated by steam pressure and provided to move said damper plate in one direction to bring the openings therein into registration with said outlets, said damper plate being arranged to be moved in the other direction by gravity when the steam pressure is released to close said outlets opposite the super heater chamber, a stop for limiting the movement of the damper

plate in said last mentioned direction, and manual means for adjusting said stop to extend the range of movement of said plate in said last mentioned direction, to also close the outlets opposite the front end chamber.

1,454,162. VEHICLE. MARTIN J. FUALONG, Houston, Tex. Filed Oct. 2, 1922. Serial No. 591,835. 11 Claims. (Cl. 180—22.)



1. A vehicle comprising a frame, a driving axle arranged beneath the frame intermediate the ends thereof and having the usual ground engaging wheels, a supporting and steering axle arranged beneath the axle forward of the driving axle and having the usual manually controlled steering wheels, a floating axle arranged below the frame rearwardly of the driving axle and having the usual ground engaging wheels, a member supported by the frame for rotation about a vertical axis, spaced members depending from said rotatable member at opposite sides of the axial center thereof and between which the floating axle is positioned, and means associated with the driving axle and the last named axle for imparting bodily swinging movement thereto during a turning movement of the vehicle.

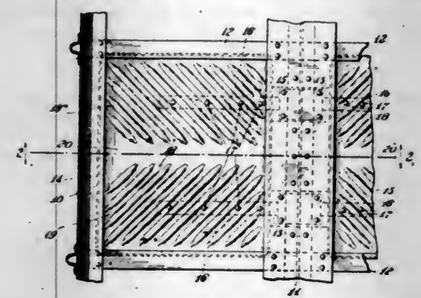
1,454,163. DIAPHRAGM. HAROLD CECIL GAINS, London, England. Filed Nov. 5, 1920. Serial No. 422,047. 1 Claim. (Cl. 181—52.)



The method of making a paper diaphragm consisting in arranging a plurality of paper discs in superposed relation, uniting them by a heated adhesive, causing the surplus moisture to evaporate, heating and pressing the united discs, cooling the same, repressing at a temperature of about 200° F., cooling the same while under pressure, and finally coating the same with varnish.

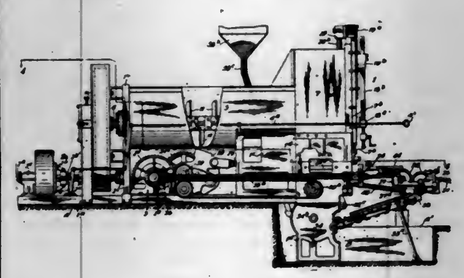
1,454,164. DUMP-CAR DOOR. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Original applications filed Aug. 30, 1919, Serial No. 320,792 (now Patent No. 1,380,055, dated May 31, 1921), and Apr. 7, 1921, Serial No. 459,305. Divided and this application filed June 22, 1922. Serial No. 570,245. 6 Claims. (Cl. 105—280.)

1. A sheet metal door for a railway car of the dumping type having hinge members extending across the under side of the door and provided with a plurality of diagonally disposed corrugations which extend from the



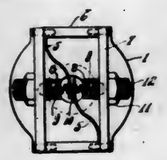
hinged edge of the door toward the lateral and opposite edges thereof, certain of said corrugations crossing said hinge.

1,454,165. BRICK MACHINE. HENRY W. B. GRAHAM, New London, Ohio, assignor to The Arnold-Creager Company, New London, Ohio, a Corporation of Ohio. Filed Feb. 15, 1919. Serial No. 277,286. 40 Claims. (Cl. 25—48.)



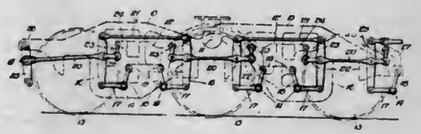
1. The combination with means for filling molds with material for making bricks, of mold return means, mechanism for inverting each mold and separating the mold and bricks, and means co-operating with said inverting and separating mechanism to turn the empty mold right side up and deliver it to said return means.

1,454,166. INSULATION-SMOOTHING DEVICE. JOHN ALLEN HEANY, New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Apr. 10, 1919. Serial No. 289,123. 3 Claims. (Cl. 173—244.)



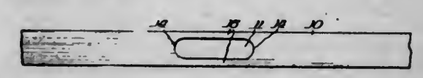
2. An insulation smoothing device comprising: a framework, resilient wiping members carried by the framework, and pressure-exerting members carried by the framework in opposed relation to each other and arranged to engage the wiping members opposite their points of engagement with an interposed conductor.

1,454,167. BRAKE MECHANISM. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 16, 1920. Serial No. 359,095. 6 Claims. (Cl. 188—213.)



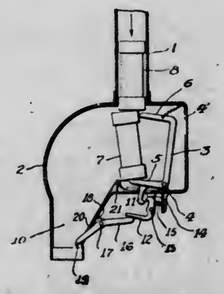
3. In brake mechanism, brake levers, pull rods connected to said levers and having extensions, and pivotally mounted hangers connected to the extensions of said pull rods for maintaining the brake rigging in normal position and permitting free movement lengthwise of the truck.

1,454,168. FORGED-STEEL FULCRUM. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed June 10, 1921. Serial No. 476,383. 2 Claims. (Cl. 188—231.)



2. A forged fulcrum comprising two spaced arms twisted at an angle with respect to the balance of the fulcrum and being bridged at one end, the bridging piece being perforated to form an open seat for a tension rod.

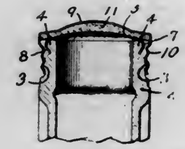
1,454,169. CARRIER-SPACING DEVICE FOR PNEUMATIC-DISPATCH SYSTEMS. WILLIAM J. HEPPERLE, Bloomfield, N. J. Filed June 11, 1921. Serial No. 476,870. 6 Claims. (Cl. 243—38.)



1. A carrier spacing device for conveyor systems comprising a movable member adapted to be moved by a traveling carrier into the path of a following carrier, means for locking the movable member in its interrupting position, and means operated by the first carrier in its continued travel for releasing the locking means to clear the path of the following carrier.

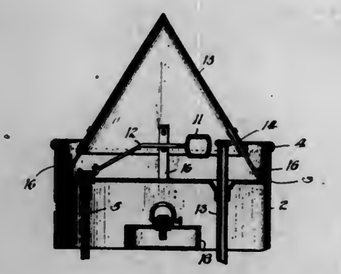
1,454,170. CLOSURE FOR CONTAINERS. FRANK S. HYATT, Brooklyn, N. Y. Filed Apr. 6, 1920. Serial No. 371,634. 6 Claims. (Cl. 221—61.)

1. A receptacle having a neck, a sifter top presenting a perforated body, said top being secured to said neck adjacent the outer end of the same, a removable imperforate cap having its inner face conforming to the entire



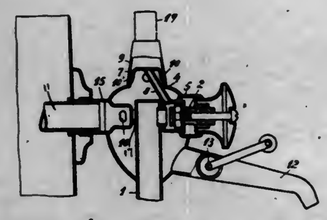
outer perforated surface of said top and means on the neck below the edge of the sifter top for drawing said cap into intimate contact with said outer face of the top.

1,454,171. WATER FOUNTAIN FOR CHICKENS. ROY E. JONES, Storrs, Conn. Filed Mar. 7, 1922. Serial No. 541,651. 3 Claims. (Cl. 119—73.)



1. An appliance of the character described, comprising a shell, a pan within the shell, to contain water, the marginal portion of the pan resting upon the upper edge of the shell, a water-pipe extending into the pan, a valve for the water-pipe, a float-operated lever for actuating the valve, and a cone provided on its underside with straight legs the angle of which agrees approximately with that of the body of the cone and spaced apart, said legs resting on the bottom of the pan, the openings between said legs providing access by the chickens to the water contained within the cone.

1,454,172. MIXING VALVE. HUGO JUNKERS, Dessau, Germany. Filed July 1, 1921. Serial No. 481,999. 9 Claims. (Cl. 277—18.)



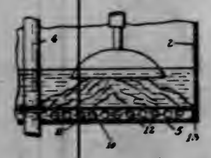
1. A mixing valve battery comprising in combination, a pressed sheet metal casing, a plurality of complete screw down valves outwardly projecting through the wall of said casing and separate pipe connections inserted in said casing and connected with said valves.

1,454,173. GAMING APPLIANCE. STEPHEN KEINER, Los Angeles, Calif. Filed Sept. 14, 1921. Serial No. 500,617. 5 Claims. (Cl. 46—61.)



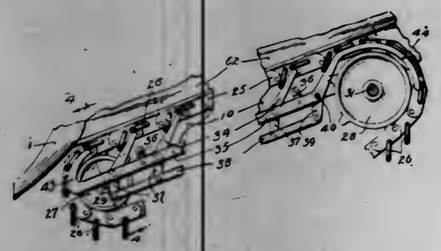
1. A gaming appliance comprising in combination an upper ball runway adapted to deliver balls onto a wheel; a wheel mounted below the upper ball runway and adapted and arranged to receive balls delivered from said runway and also adapted to be actuated by the balls discharged from said runway; a lower ball runway adapted and arranged to receive the balls from said wheel and to deliver the same to a spinning top; and a spinning top having compartments adapted and arranged to receive the balls discharged from said lower runway.

1,454,174. WASHING MACHINE. JOHN JEFFERSON KENYON, Detroit, Mich. Filed Feb. 16, 1922. Serial No. 536,933. 1 Claim. (Cl. 68—19.)



In a washing machine, the combination with a tub, of a ring resting on the bottom of the tub and having an inwardly extending top flange, a sleeve disposed in the centre of the ring and extending through the bottom of the tub, a plurality of arms extending between the sleeve and the ring, a circular perforated false bottom supported on the arms and the inwardly extending flange of the ring and a rod extending through said sleeve and carrying vacuum cups above said false bottom.

1,454,175. POTATO DIGGER. JOSEPH J. KOVAR and JOHN R. KOVAR, Owatonna, Minn.; said Joseph J. Kovar assignor to said John R. Kovar. Filed Jan. 5, 1920. Serial No. 349,190. 9 Claims. (Cl. 130—32.)



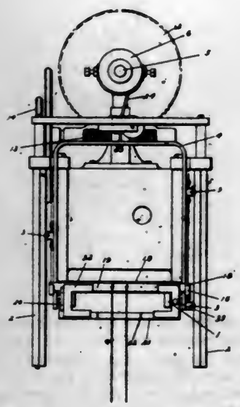
1. A conveyer adapted to receive potatoes and earth from the plow of a potato digger having in combination spaced link chains, rods extending between said chains and pivoted to the links thereof by eccentric pivots to depend freely therefrom, and means for oscillating said rods about said pivots during the travel of the chain comprising a row of rearwardly extending spaced cam fingers disposed at each side of the conveyer adjacent said channels.

1,454,176. TRACK-LAYING MACHINE. JOHN R. MCGIFFERT, Duluth, Minn., assignor to Clyde Iron Works, Duluth, Minn., a Corporation of Maine. Filed Oct. 11, 1921. Serial No. 507,020. 15 Claims. (Cl. 104—5.)



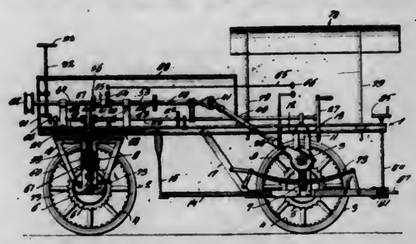
1. In a track laying apparatus, the combination of a car, parallel vertical frames mounted on opposite sides of said car, transverse braces connecting said frames at the level of the floor of said car, horizontal transverse braces connecting said frames above the level of said car floor, and angular braces extending from the upper ends of said frames, said last named braces being connected together centrally above said car, a trackway and movable carriage thereon, said trackway being mounted on said upper horizontal braces of said frames, an engine mounted on said frames and braces, and carriage-operating cables extending from said carriage to the ends of said trackway and over the point of connection of said angular braces, said cables being operable by said engine to actuate said carriage.

1,454,177. SPECTACLE-FRAME-COATING MACHINE. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed June 11, 1920. Serial No. 388,127. 2 Claims. (Cl. 91—46.)



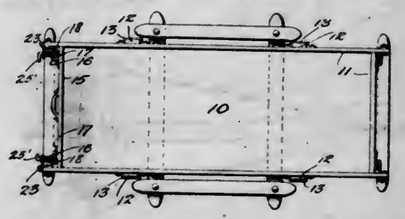
1. A device of the character described including a carriage having supporting arms and a plurality of interchangeable rack members having portions for interlocking engagement with the arms said rack members each having article receiving projections and additional article steadying recesses aligned with the projections to steady articles mounted thereon.

1,454,178. COMBINED TRACTOR AND TRUCK. JOHN J. MOORE, Batavia, N. Y. Filed May 7, 1920. Serial No. 379,606. 3 Claims. (Cl. 180—73.)



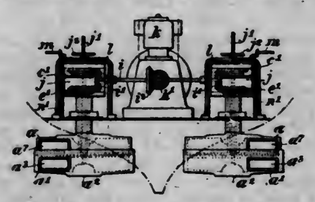
1. In a machine of the class described, a wheel supported structure, driving gears of different size fixed to each of said wheels, a drive shaft having a gear fixed thereto, a vertically movable jack-shaft carrying cogs to mesh with the gears on said wheels, a bevel gear carried by said jack-shaft, a connection between said drive and jack shafts whereby the latter is actuated by the former, said connection comprising a shaft composed of telescoping sections, one having a gear meshing with the gear on said drive shaft and the other a gear meshing with the gear on the jack-shaft, whereby the jack-shaft is actuated by the drive shaft and the jack-shaft permitted to move vertically relatively to said drive shaft.

1,454,179. WAGON BED. LYMAN L. MOOTHART, Junius, S. Dak. Filed May 25, 1922. Serial No. 563,593. 2 Claims. (Cl. 296—53.)



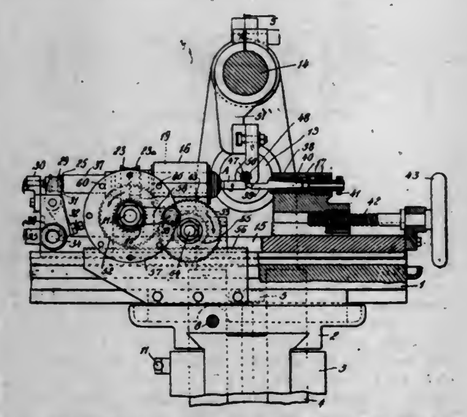
1. A wagon body having end gate cleats of which the members are carried respectively by the side walls of the body and the end gate and have an interlocking engagement for sliding movement parallel with the plane of the end gate, one of said cleat members having an outwardly directed channel or groove and the other having an inwardly directed rib or tongue, and the side wall cleat members being hingedly mounted for swinging movement out of the path of the rearward movement of the end gate, and a spring actuated latch or bolt carried by said side wall cleat member for engagement with a socket in the end gate.

1,454,180. PROPELLER FOR VESSELS. CHARLES MARIUS MOTTE, Paris, France. Filed Mar. 22, 1921. Serial No. 454,570. 1 Claim. (Cl. 115—16.)



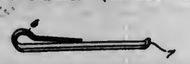
Means for propelling and stopping vessels consisting in suspended and superposed turbine casings, upper and lower inlet orifices and a lateral outlet in said casings, means for suspending said casings and means for simultaneously turning same and mechanism for transmitting power for continuously rotating the turbine wheels.

1,454,181. MECHANISM FOR MILLING BLANKS FOR CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed July 20, 1918, Serial No. 245,861. Renewed Oct. 6, 1921. Serial No. 505,927. 10 Claims. (Cl. 90—20.)



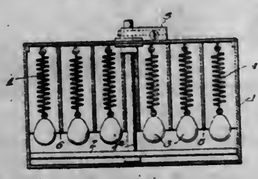
1. The combination of a horizontally movable frame, a plurality of blank-holding spindles longitudinally mounted on the frame, a plurality of milling cutters rotatable about a common axis and arranged to engage the respective blanks to cut grooves therein, and means for simultaneously turning the spindles and blanks as they move longitudinally with the frame, the said means comprising a rack fixed against movement with the frame and gearing carried by the frame and including a gear meshing with the rack.

1,454,182. LOOSE-LEAF BINDER. ANSON WILLIS MYER, Kingston, N. Y. Filed Mar. 16, 1921. Serial No. 452,727. 4 Claims. (Cl. 129—40.)



1. In a loose leaf binder, a one-piece substantially U-shaped resilient holder, one leg of the holder being slender and adapted to extend between the leaves of a book, and the other leg being relatively wide and adapted to extend between the sewed edges of the leaves and the back of the book.

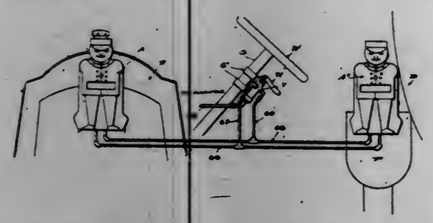
1,454,183. THEFT ALARM. JAMES H. MINER, Meridian, Miss. Filed June 15, 1921. Serial No. 477,794. 2 Claims. (Cl. 116—33.)



1. In an automatic theft alarm for motor vehicles an inclosing casing, a horizontally disposed sounding member

located therein, a knocker element located in proximity to said sounding member, and a helical spring connecting said knocker element to the casing, said knocker element being normally free to move vertically, relatively to the sounding member, and locking means for holding said knocker against such relative movement.

1,454,184. SIGNAL APPARATUS FOR MOTOR VEHICLES. ALEXANDER J. PERRON, Sparta, Wis. Filed Apr. 27, 1922. Serial No. 556,945. 9 Claims. (Cl. 116—39.)



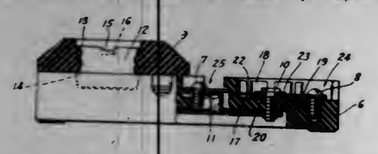
1. A signal unit comprising a supporting plate, a pair of cylinders mounted upon the forward face of said supporting plate, a piston for each cylinder, a pair of signalling arms, each arm having its one end pivotally connected to the supporting plate, a link connection between each arm and one of the pistons whereby upon the piston moving upwardly the arm will be swung to its signalling position, and a cover casing for the mechanism including the cylinders supported by said supporting plate, said cover casing being in the form of a figure, and having a transverse recess, and a signal member bearing the word "Stop" mounted upon the supporting plate and adapted to be brought into register with said recess in the cover upon both arms assuming their signalling position.

1,454,185. ELECTRICAL CUT-OUT. CLARENCE D. PLATT, Bridgeport, Conn. Filed Feb. 11, 1922. Serial No. 535,676. 11 Claims. (Cl. 200—133.)



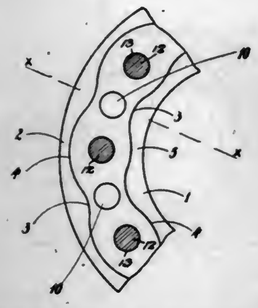
1. A cut out comprising an insulating base, a screw shell rotatably carried thereby, a circuit terminal for said screw shell, a cover for said base to guard said terminal and the sides of said screw shell, and means for preventing said screw shell from rotating when said cover is in place.

1,454,186. ELECTRIC CUT-OUT AND THE LIKE. CLARENCE D. PLATT, Bridgeport, Conn. Filed Apr. 8, 1922. Serial No. 550,562. 9 Claims. (Cl. 200—133.)



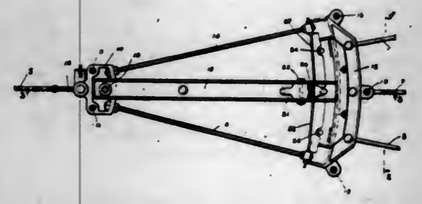
1. In a cut-out, an insulating base, a socket secured to said base, a center contact, circuit terminals carried by said base and connected to said socket and said center contact, a detachable cover and a screw shell carried thereby adapted to engage said socket.

1,454,187. CYLINDER CONNECTION AND THE LIKE. PETER AUGUST POPPE and ERLING POPPE, Coventry, England. Filed Nov. 17, 1920. Serial No. 424,785. 4 Claims. (Cl. 285—130.)



1. A peripheral joint for hollow structures having one of its contacting faces provided with a pair of undulating facing strips and spaced securing members disposed between the facing strips; the undulating facing strips being narrow adjacent the holes for the securing members and extending to a greater width intermediate thereto.

1,454,188. SWITCH FOR OVERHEAD TRACKS. ROBERT F. RASMUSSEN, Oshkosh, Wis., assignor to C. A. Libbey Co., Oshkosh, Wis., a Corporation of Wisconsin. Filed Nov. 18, 1921. Serial No. 516,155. 7 Claims. (Cl. 104—103.)

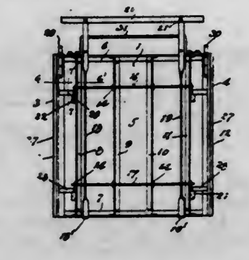


1. The combination with a main track, a plurality of branch tracks and supporting means for said tracks, of a switch member, means pivotally connecting one end of the switch member to the supporting means for the main track, a switch track carried by said switch member, means flexibly joining the switch track at one end to the main track, whereby said switch member may be moved horizontally to bring the other end of the switch track into alignment with any of the branch tracks, and a latch mechanism for locking said switch track in its adjusted positions.

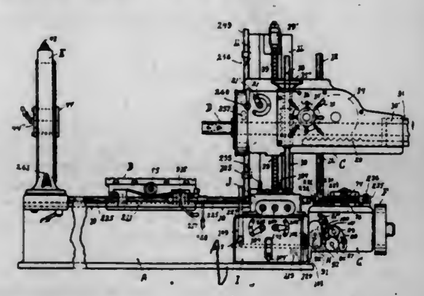
1,454,189. MOLDING FORM. HENRY RUSTAD, Winnipeg, Manitoba, Canada. Filed July 20, 1922. Serial No. 576,373. 5 Claims. (Cl. 25—128.)

4. A molding form comprising a suitably interiorly reinforced stationary plate having the ends thereof inwardly deflected to provide end wings, a suitable reinforced movable plate complementary to and opposing the stationary plate, said movable plate having end wings extending towards, but spaced from the wings of the stationary plate, upper and lower sets of vertically swingable arms pivotally connected to the inner side of the stationary plate, cross rods connecting the free ends of the arms of the sets, vertically extending spaced adjusting bars mounted on the rods, a handle connecting the upper ends of the bars, means connecting the

movable plate to the adjusting bars, similar end plates normally contacting with the inner faces of the wings and closing the openings therebetween, stop brackets permanently secured to the stationary plate and engageable with certain of the swinging arms and limiting the down swinging thereof, vertically swingable arms pivotally connecting the end plates to the stop brackets and handles permanently attached to the upper ends of the end plates.



1,454,190. HORIZONTAL BORING MILL. WILLIAM L. SCHELLENBACH, Wyoming, Ohio, assignor to Giddings & Lewis Manufacturing Company, Fond du Lac, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1919. Serial No. 293,330. 23 Claims. (Cl. 29—26.)



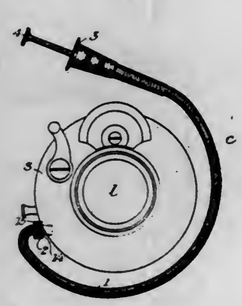
1. A feeding mechanism comprising a reversible feed train, a traverse train, and a controller lever to control the movements of both of said trains, said controller lever having a feeding position, a non-feeding position at each side of the feeding position covering a sufficient range of movement of the controller lever to enable said non-feeding position to be employed as a feed stop position, and a traverse position at the outside of each stop position of the lever.

1,454,191. BRUSH. FRED STEBLER, Riverside, Calif., assignor to Stebler Parker Co., Riverside, Calif., a Corporation of California. Filed Dec. 19, 1921. Serial No. 523,315. 9 Claims. (Cl. 146—14.)



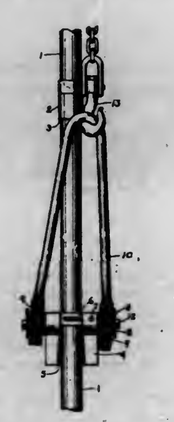
1. A brush comprising a core provided on its surface with a plurality of annular spiral grooves each independent and separate from the other and extending from one end of the core to the other, a plurality of flexible tuft mounting members, one positioned within and extending from one end to the other of each groove, means for anchoring the ends of each tuft mounting member to the core, and a plurality of brush tufts carried by each mounting member and projecting radially of the core surface.

1,454,192. FLEXIBLE-CABLE RELEASE AND METHOD OF ASSEMBLING SAME. CHARLES E. STURGIS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 29, 1921. Serial No. 488,477. 8 Claims. (Cl. 74—30.)



2. In a shutter release, the combination with an outer flexible tubular casing, and an inner flexible cable, both terminating in finger ferrules at one end, of a threaded shutter engaging member at the other end of one of the flexible members, said last named flexible member including a spring, a portion of said spring having convolutions of different spacing from the convolutions of the remainder of the spring to provide a thread adapted to engage and bind with the thread on the shutter engaging member, forming a tight connection therewith.

1,454,193. ELEVATOR. AVERY H. THOMAS, Houston, Tex. Filed Feb. 5, 1921. Serial No. 442,860. 4 Claims. (Cl. 294—91.)



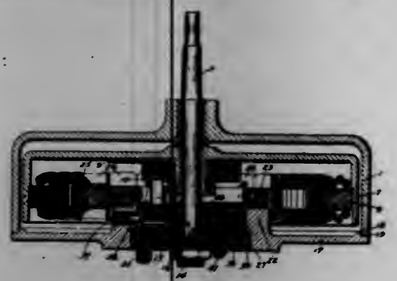
1. In an elevator of the class described, an elevator block, straight laterally extending trunnions thereon and a bail having elongated openings in the lower ends thereof to receive said trunnions, said openings being of uniform width and rounded at the upper and lower ends to allow a rocking of said block therein for the purpose described.

1,454,194. ELEVATOR. AVERY H. THOMAS, Houston, Tex., assignor to Houston Pump & Supply Company, Houston, Tex., a Corporation of Texas. Filed Aug. 29, 1921. Serial No. 496,742. 3 Claims. (Cl. 294—90.)



1. In an elevator, the combination of a pipe clamping block, a post thereon, a yoke slidable on said post, a ball on said yoke, a stop nut on said post above said yoke, a spring on said post between said yoke and said nut and means to hold said ball erect relative to said post.

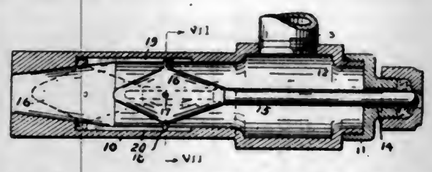
1,454,195. PHONOGRAPH MOTOR. EDWARD J. TOMLINSON, Newark, N. J., assignor to Splitdorf Electrical Company, Newark N. J. Filed May 20, 1920. Serial No. 382,794. 16 Claims. (Cl. 172—36.)



1. A phonograph motor comprising in combination, a stationary casing, a movable casing positioned within the stationary casing and carrying: an armature structure, a shaft for operating a sound record support body and a commutator; a flat cover plate with means for fastening the same to the stationary casing, said plate carrying a magnetic field structure for co-acting with said armature structure, a brush holder mounted in said flat cover plate with brushes to convey current to and from said commutator and a bearing in the cover plate for one end of said shaft.

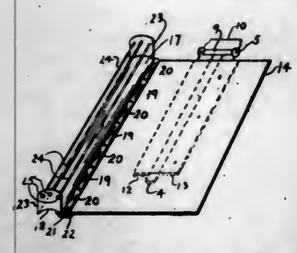
1,454,196. DEVICE FOR PRODUCING AND UTILIZING COMBUSTIBLE MIXTURE. SAMUEL TROOD, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 485,340. 3 Claims. (Cl. 158—118.)

3. A device for producing and utilizing combustible mixture which includes a shell enclosing a chamber, means comprising a plug interposed in said chamber to form a constricted area therein, the said plug being in the form of a double truncated cone and forming venturi passages, the said plug being adjustably positioned in



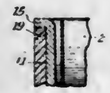
said chamber for the purpose of varying the suction effect in the constricted area formed between the walls of said plug and the walls of the chamber, and means to introduce combustible mixture into said constricted area.

1,454,197. BOOKREST. WILLIAM JAMES WALSH, Hamilton, Ontario, Canada. Filed Oct. 13, 1921. Serial No. 507,461. 1 Claim. (Cl. 45—85.)



In a device of the class described, the combination with a flat book rest, of a relatively narrow plate hingedly connected to one marginal edge thereof, book securing means carried by said hinged plate, a projecting rigid stop arm rigidly carried by the hinged plate, said stop arm adapted to engage the back of the book rest and limit the oscillation of the hinged plate.

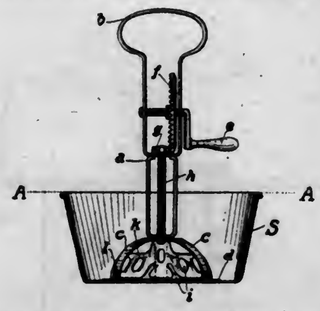
1,454,198. CAMERA. FRANK S. WARREN, Oakland, Calif., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 9, 1921. Serial No. 521,226. 3 Claims. (Cl. 95—11.)



1. An article of manufacture adapted to constitute a part of the exterior casing of a camera and comprising a thin malleable sheet of metal, the edges of which are struck up at right angles to form continuous flanges extending outwardly, and a layer of flexible material secured adherently to the outer surface of said sheet and with its edges abutting the inner wall of the flanges, the thickness of the exposed edge of the flange being the same as the thickness of the sheet and the height of the flanges being substantially the same as the thickness of the flexible layer, whereby the flanges protect the edges of the layer.

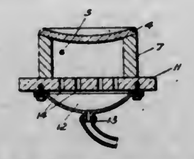
1,454,199. AGITATOR. KUNZ WEIDLICH, Nuremberg, Germany, assignor to the Firm Bing-Werke, vorm. Gebr. Bing A.-G., Nuremberg, Germany. Filed Feb. 3, 1922. Serial No. 533,808. 3 Claims. (Cl. 259—134.)

1. In a device of the kind described in combination, a stand, a plurality of feet spaced apart at the lower end of said stand, a shaft extending vertically in said stand down to the feet and a stirring vane in the form of a



vertically placed piece of sheet material freely supported at the lower end of said shaft with its bottom edge almost at a level with the lower ends of said feet.

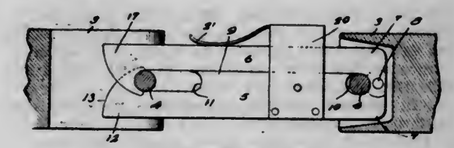
1,454,200. ANTÆUS GLASS. JOEL C. WELLS and EDGAR D. TILLYER, Southbridge, Mass.; said Tillyer assignor to said Wells. Filed May 13, 1922. Serial No. 560,614. 6 Claims. (Cl. 49—79.)



1. The process of producing protection lenses consisting in heating the lens uniformly and subsequently cooling one face of the lens while the other is in a plastic condition.

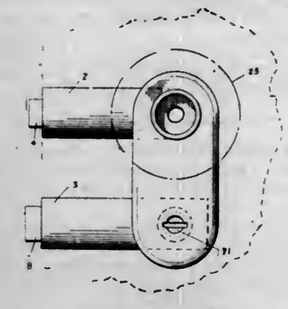
5. The process of producing a curved protection lens consisting in surfacing the faces of the lens in flat form, subjecting the blanks after surfacing to sufficient heat to drop the lens to desired curve without impairment of the polished surfaces thereof, and suddenly chilling one face of the blank to produce a surface tension in the finished blank, increasing the resisting properties thereof.

1,454,201. SELF-COUPLING FOR MINE CARS. JAMES WHEWELL and HARLEY I. YODER, Holsopple, Pa. Filed May 24, 1921. Serial No. 472,211. 1 Claim. (Cl. 213—209.)



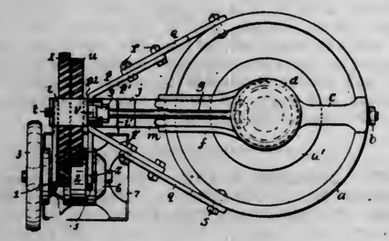
A link coupler comprising a pair of substantially rectangular plates having inwardly directed overlapping ears pivotally connected and securing the plates together at one end, inwardly directed overlapping beaks at the other ends of the plates, one of said plates being recessed between its ends, the other plate having an elongated recess on its inner edge from its beak to a point approximately at its center and a substantially circular recess near its other end adjacent its ear, a rib separating said recesses adapted to engage the inner edge of the opposite plate within the recess of the latter, said recesses receiving the coupling pins on adjoining cars, a yoke secured to one of the plates, and a spring arm extending from one end of said yoke engaging the outer edge of the other plate to maintain the parts in a normally contacting position.

1,454,202. LOCK. JOHN O. WINKS, San Francisco, and EDWARD O. BENNETT, Gilroy, Calif., assignors to Bradley L. Benson, San Francisco, Calif. Filed Apr. 2, 1921. Serial No. 458,118. 8 Claims. (Cl. 70—16.)



3. A lock, comprising, in combination, a cylindrical member adapted to extend crosswise of a door, an escutcheon at each end thereof, said escutcheons being perforated in register with said cylindrical member, flanged cylindrical members adapted to extend through the perforations in said escutcheons and enter said first named cylindrical member and locking means therein adapted to engage the same.

1,454,203. DRIVING ATTACHMENT FOR ICE-CREAM FREEZERS AND THE LIKE. WILLIAM WIRTZ, Cristobal, Canal Zone, Panama. Filed Mar. 24, 1922. Serial No. 546,311. 7 Claims. (Cl. 74—7.)



1. In combination, with a fixed structure including a substantially cylindrical vessel and with a part to be driven arranged in said structure, a frame arranged beside and secured to said structure and having a lateral crotch receiving the vessel between, and bearing at a given elevation against said vessel at, its extremities and a lateral brace bearing against the vessel at another elevation and in a vertical plane bisecting the crotch, and means in the frame to drive said part.

1,454,204. PROCESS OF MANUFACTURING DIOXYPERYLENE AND PERYLENE. ALOIS ZINKE, Graz, Austria, assignor to Hans Pereira, Vienna, Austria. Filed Feb. 24, 1921. Serial No. 447,561. 5 Claims. (Cl. 260—168.)

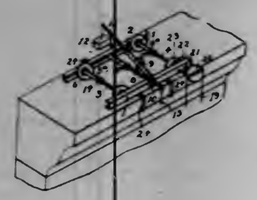
4. A process for manufacturing perylene consisting in reducing dioxyperylene by a metal in a current of hydrogen at a temperature above the distilling temperature of perylene.

1,454,205. PROCESS OF MANUFACTURING DIOXYPERYLENE. ALOIS ZINKE, Graz, Austria. Original application filed Feb. 24, 1921, Serial No. 447,561. Divided and this application filed June 14, 1922. Serial No. 568,289. 6 Claims. (Cl. 260—154.)

2. A process for treating alkyl derivatives of dioxybinaphthyls, consisting in mixing the same with aluminium chloride, heating the mixture to a temperature lower than the melting temperature of dioxyperylene under exclusion of water in any form and lixiviating the mass obtained with dilute hydrochloric acid whereby aluminium chloride and its products of decomposition are dissolved separating the solid residue from the liquid whereby dioxyperylene is obtained.

6. As a new product of manufacture a perylene derivative in which for two of the atoms of hydrogen in the perylene molecule the OH group is substituted.

1,454,206. COPING CARRIAGE. FREDERICK JOHN TURNER BELL, Ashton-under-Lyne, England. Filed June 8, 1921. Serial No. 475,988. 5 Claims. (Cl. 104—94.)



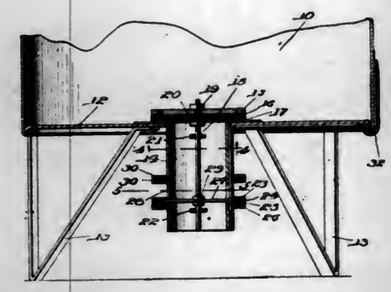
5. A coping carriage characterized by side members, collapsible members connecting the said side members, running wheels in fixed relation to such side members and moving transversely therewith when the side members are moved towards each other and means for securing the collapsed members in any desired position, and toothed and rope gearing between one of the carriage running wheels and the cradle swung from the coping carriage and bearing the operative, said cradle having fitted thereto vertical and horizontal runners to engage the front of the building, and means for turning each runner into or out of engagement with the said wall.

1,454,207. BELLOWS VALVE. GEORGE W. BEMIS, Worcester, Mass. Filed Oct. 4, 1920. Serial No. 414,561. 3 Claims. (Cl. 230—2.)



1. A valve structure comprising a thin rectangular and substantially flat metal valve plate having integral longitudinally extending stiffening ribs formed on its outer surface, a facing of softer material secured to said plate, a seat for said valve and means to retain said valve plate in operative relation to said valve seat, said valve plate having limited free swinging movement as a flat unit about an edge of said plate parallel to said stiffening ribs.

1,454,208. FILLING DEVICE. CHARLES N. BRACKETT, Memphis, Tenn. Filed Nov. 14, 1921. Serial No. 515,127. 1 Claim. (Cl. 226—36.)



A filling device of the character described comprising a container having an opening centrally disposed in its bottom portion, a filling spout suspended from the walls of said opening and adapted to communicate with the interior of said container, a valve normally seated to cut off said communication and adapted to have its lower edge normally engaging the edges surrounding the opening, said valve including segments of different material arranged in superimposed positions, the heaviest of which being rust resisting and adapted to overlie the others, the intermediate material being rigid, the bottom material being pliable and adapted to provide a leak proof joint between the bottom of the container and the spout, a lifting rod having one of its ends inserted centrally through and beyond the valve and having said end threaded, nuts mounted on said threads and adapted to engage the upper and lower portion of said valve and to hold the same detachably secured to the rod spaced guide means secured to the interior of the filling spout and arranged transversely therein adjacent each end, said rod being adapted to slide centrally through said guide means, an annulus composed of the same material as the valve and adapted to loosely surround the filling spout adjacent its lower edge, a transverse element detachably secured to said rod and having its ends arranged in diametrically opposed elongated slots provided in the filling spout, said ends being adapted to support the annulus in desired positions, a second annulus rigidly secured around the filling spout and having its bottom edge engaging the top edge of said elongated slot and to limit the movement of the first mentioned annulus as and for the purpose specified.

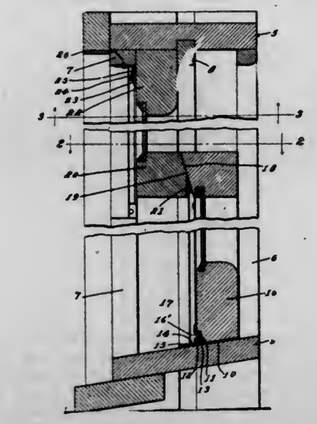
1,454,209. SELF-TONING PHOTOGRAPHIC EMULSION. EDMUND R. BULLOCK, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 13, 1922. Serial No. 529,079. 6 Claims. (Cl. 95—7.)

1. An emulsion containing a sensitive silver salt and a tellurium compound.

1,454,210. WEATHER STRIP. NOAH B. CANNADY, Eureka, Kans. Filed Oct. 6, 1921. Serial No. 505,802. 1 Claim. (Cl. 20—69.)

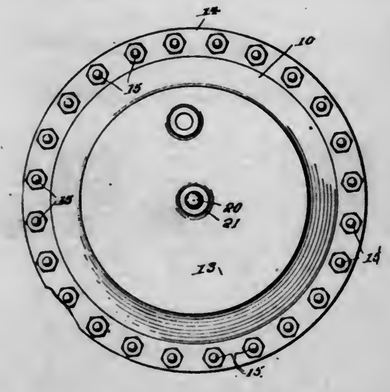
In a window construction comprising a sill, and a sash having a rabbeted lower rail, a plate secured to said sill and having an upwardly extending flange formed integral therewith, a plate secured to said sill cooperating with the first mentioned plate and having an upwardly extended flange terminating in a downwardly extended portion disposed in spaced relation therewith to provide

a pocket for the first mentioned flange and a plate secured to said sash rail and cooperating with said rabbet to



form a channel, said flanges adapted to be received in said channel and frictionally engage the walls thereof.

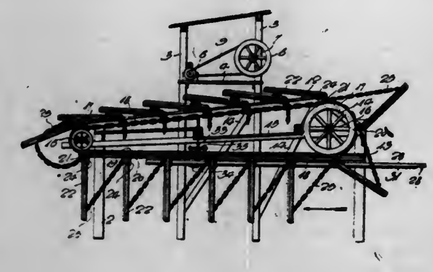
1,454,211. GAS-PRESSURE REGULATOR. WILLIAM P. CAPPS, Shreveport, La. Filed Oct. 16, 1922. Serial No. 594,928. 1 Claim. (Cl. 50—25.)



A device of the character described comprising a shell having a cover, a flexible diaphragm held taut between the shell and its cover, a stem slidable through the cover and secured to the diaphragm and passing therethrough, said shell having an outlet nipple and formed with a passage member leading from an inlet nipple, a valve located within the shell and including a casing communicating with said passage member and with the interior of the shell, a plug rotatable within the valve casing, an angle lever secured to the projecting end of said plug and a pivotal connection between said stem and the angle lever.

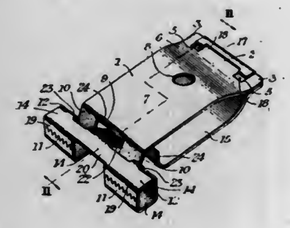
1,454,212. WATER MOTOR. JOHN W. CARLSON, Salt Lake City, Utah, assignor of one-half to Herbert S. Reed, Salt Lake City, Utah. Filed Aug. 11, 1921. Serial No. 491,500. 9 Claims. (Cl. 170—82.)

2. A water motor comprising, a frame, endless carriers moving longitudinally of the frame, paddle boards pivotally connected with said carriers, means for limiting swinging of the paddle boards in one drecton beyond a postion at right angles to the carriers when moved to an operative position, strips slidably carried by the frame



adjacent the lower tracks for supportng the paddle boards in an inoperative position when said strips are moved to an operative position and means for moving the strips into and out of position for engaging the paddle boards.

1,454,213. FILM CLIP. ALBERT K. CHAPMAN and GARSHOM A. RIGGS, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,067. 4 Claims. (Cl. 24—259.)



1. In a film clip comprising spring arms, plates formed on the ends of the arms, film engaging teeth extending from the plates, limiting stops spaced from the teeth also extending from the plates, said plates being spaced from a film held by the teeth.

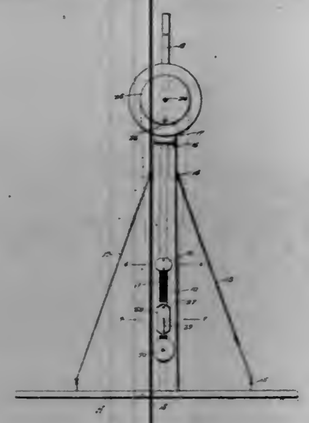
1,454,214. FUSED SALT BATH FOR HEATING STEEL IN HARDENING. REGINALD SCOTT DEAN, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 11, 1921. Serial No. 468,755. 5 Claims. (Cl. 148—15.)

1. The method of maintaining a fused salt bath in a non-oxidizing condition for the heating of steel in hardening, which consists in adding a readily oxidizable material to the molten bath.

1,454,215. FILM DEVELOPER. FRANCISCO DIAZ, Winslow, Ariz. Filed Feb. 13, 1922. Serial No. 536,227. 4 Claims. (Cl. 95—93.)

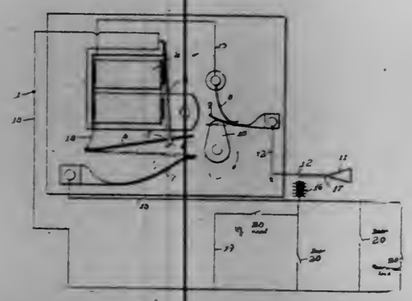
1. A device of the character described comprising an upstanding slotted support, a post slidable along said

slot, a sleeve member vertically adjustably mounted upon said post and carrying a spindle, a spool rotatable



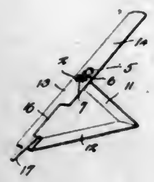
on said spindle and having a handle, a block slidable along the lower end of said slot and carrying a spindle, and a flanged spool on said last named spindle.

1,454,216. ALARM FOR AUTOMOBILES. WEIR B. EBERLY, Mechanicsburg, Pa. Filed Nov. 26, 1919. Serial No. 340,789. 1 Claim. (Cl. 177—314.)



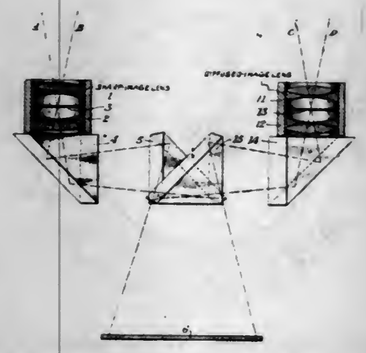
The combination with an automobile, of a housing secured to the dash and mounted under the hood of the engine, an electromagnet within the housing, a shiftable contact strip, an armature normally spaced from the magnet and engaging said contact strip to support one end thereof, a contact strip normally spaced from but in position to be engaged by the supported strip, an audible signal device, a source of electrical energy connected thereto electrically, contacts included in a circuit between the signal device and the electromagnet, a cam for holding the last named contacts normally together, one of said contacts being movable away from the other contact when the cam is shifted out of normal position, and a switch shiftable by the movement of a portion of the automobile for closing the circuit through the last named contacts while supported together, thereby to energize the electromagnet and release the shiftable contact strip for engagement with the contact strip thereunder to complete a circuit to the audible signal independently of subsequent movement of the switch, said cam being movable to engage the released shiftable contact and return it into engagement with the armature.

1,454,217. CAR SEAL. WILLIAM KERR EDGAR, Lawrence, Kans., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Filed July 22, 1921. Serial No. 486,819. 5 Claims. (Cl. 292—315.)



1. A car seal comprising a strip bendable at prearranged points and having interlocking portions, a locking end on the strip bendable to hold the interlocking portions against separation, there being a recess in the seal having a portion normally concealed by said locking end when in holding position, and means bendable into engagement with the locking end while in holding position.

1,454,218. PHOTOGRAPHIC OPTICAL SYSTEM. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 23, 1920. Serial No. 398,450. 11 Claims. (Cl. 95—11.)



1. In an optical system for use in making artistic photographs, the combination with two lenses, one adapted to sharply define an object being photographed, the other being adapted to give a diffused image thereof, and means for superimposing images from the two lenses.

1,454,219. OZONE-GENERATING APPARATUS. RICHARD GOEDICKE, Berlin-Schoneberg, Germany. Filed Feb. 28, 1920. Serial No. 362,165. 3 Claims. (Cl. 204—32.)

1. In an ozone generating apparatus, the combination, with concentric electrodes, of a tube enclosing them, fittings at the ends of said tube, means for supporting

the electrodes and the said tube in said fittings, means for making air pass through the channels formed by the



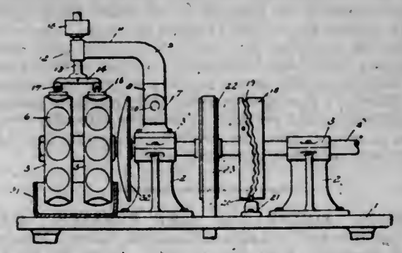
said electrodes, and means for making the air circulate through said channels.

1,454,220. COVER-RELEASING DEVICE. JAMES C. HALL, Worcester, Mass. Filed Aug. 29, 1921. Serial No. 496,411. 8 Claims. (Cl. 9—1.)



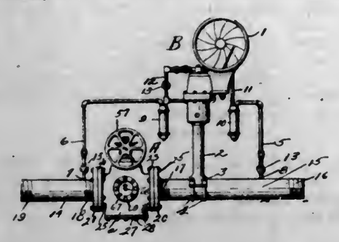
1. A boat cover releasing device comprising a rotatable member extending longitudinally of the boat along an edge of said cover and mounted in bearings, means to attach a cover thereto at a plurality of points, and means to move said member angularly in one direction to tighten said attached cover and in the opposite direction to release said attaching means from said member.

1,454,221. LENS-GRINDING MACHINE. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 18, 1922. Serial No. 555,383. 5 Claims. (Cl. 51—160.)



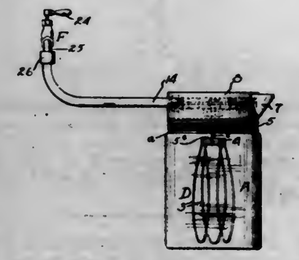
1. A machine of the class described including rotatable lens blocks, lap members supported above the blocks and having contact with the lenses on said blocks and means whereby to impart a variable reciprocating movement to the lens blocks as and for the purpose set forth.

1,454,222. VALVE COCK. PERCY L. PALMER, Redondo, and GEORGE W. DRAGGOO, El Segundo, Calif. Filed Dec. 24, 1920. Serial No. 432,929. 9 Claims. (Cl. 73—167.)



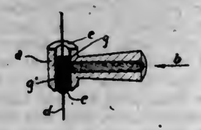
1. A valve body having valve ports for induction and eduction of a fluid, a plug member seated within said valve body, said plug member being provided with a transverse port extending therethrough in line with the valve ports for induction and eduction of a fluid, said plug being provided with an annular recess portion and an orifice plate adapted to be confined within said recessed portion; said plug likewise being provided with a transverse rectangular bore at right angles to said first named port.

1,454,223. MOTOR-DRIVEN MIXER AND THE LIKE. ROY W. POOR, Los Angeles, Calif., assignor of one-fourth to Joseph J. Mathe, Los Angeles, Calif. Filed July 7, 1921. Serial No. 482,994. 3 Claims. (Cl. 259—122.)



1. A device of the class described including a receptacle, and a detachable cover unit therefor, said cover unit comprising a chamber, a motor element mounted within the chamber, a beater element adapted to be arranged within the receptacle and operated by said motor element, and means extending through a part of said chamber and establishing communication between the interior of the receptacle and the outside.

1,454,224. METHOD AND MEANS FOR APPLYING A LIQUID TO WIRES, THREADS, AND THE LIKE. FRIEDRICH KARL SCHMIDT, Porz-on-the-Rhine, Germany, assignor to the Firm Meirowsky & Co., Actien-Gesellschaft, Porz-on-the-Rhine, Germany. Filed Jan. 29, 1923. Serial No. 615,733. 3 Claims. (Cl. 91—46.)

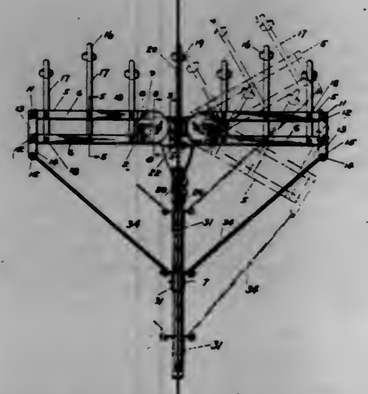


1. The method of applying liquids to wire- or thread-shaped bodies, consisting in conducting the respective

body through a vertically elongated body of a small quantity of liquid held fast by adhesion and maintained in equilibrium.

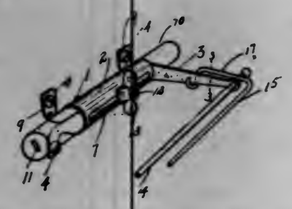
3. A device for applying liquids to wire- or thread-shaped bodies, comprising, in combination, a vertically elongated liquid carrier sleeve adapted to hold a vertically elongated body of a small quantity of liquid by adhesion and being adapted to allow of pulling the respective body through that liquid, and a branch attached to said sleeve and communicating with its liquid-holding space, for the purpose set forth.

1,454,225. ADJUSTABLE CULTIVATOR. JOHN B. SWAN, Denver, Colo., assignor of one-half to Louis Csemiczsky, Denver, Colo. Filed Mar. 5, 1921. Serial No. 449,986. 1 Claim. (Cl. 97—64.)



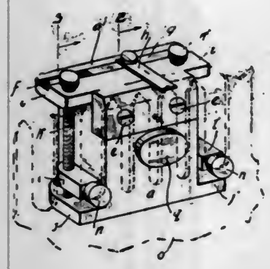
A cultivator of the class described comprising a head; plates pivotally connected with said head; means for regulating the position of said plates in relation to said head; frames pivotally connected to said plates and means for regulating the position of said frames in relation to said plates.

1,454,226. COMBINED SHADE ROLLER AND CURTAIN BRACKET. JOHN B. SWAN, Denver, Colo., assignor of one-half to Louis Csemiczsky, Denver, Colo. Filed Nov. 29, 1921. Serial No. 518,508. 1 Claim. (Cl. 156—24.)



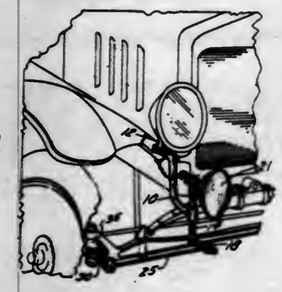
As a new article of manufacture, a combined shade roller and curtain pole supporting bracket formed from a single blank of rectangular sheet metal, ears formed on the corners of the blank, an arm formed upon one end of the blank and between the adjacent ears, said blank being rolled until the side edges contact to provide a tubular body, said arm being bent at right angles to the body for supporting a curtain pole, said ears being bent to attach to a window frame, and a tubular bearing slidably mounted in the body, and means for securing the bearing in adjusted positions.

1,454,227. COMBINED GAUGE AND SET FOR CROSS-CUT SAWS AND THE LIKE. LOUIS O. VADNAIS, Myrtle Creek, Oreg. Filed Mar. 25, 1920, Serial No. 368,729. Renewed Mar. 5, 1923. 5 Claims. (Cl. 76—46.)



1. In a saw-gauge, gauge-pins adapted for insertion in the spaces between the teeth of the saw to be gaged, projecting perpendicularly beyond the working face of the stock and independently adjustable across said working face, thereby to position the saw relatively to the desired graduation of the saw teeth.

1,454,228. AUTOMATICALLY-CONTROLLED SPOT-LIGHT. LOUIS A. BEAN, Denver, Colo., assignor to Clive L. Senter, Denver, Colo. Filed Apr. 25, 1922. Serial No. 556,503. 4 Claims. (Cl. 240—62.)

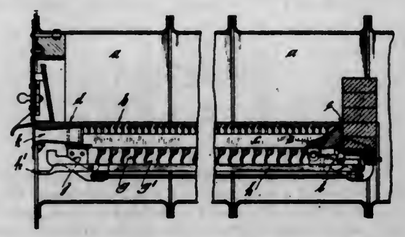


2. An automatically controlled spot-light comprising a lever adapted to be attached to the front wheel spindle of an automobile; an arm carrying at its one extremity a clamp for engaging the stem of the automobile head-light and at its other extremity a vertical sleeve; a tubing mounted in said sleeve so as to be vertically adjustable therein; a spot-light carrying shaft rotatably mounted in said tubing and provided at its lower extremity with a fixed lever and means for pivotally connecting said fixed lever with said first mentioned lever.

1,454,229. BOILER AND LIKE FURNACE. JAMES CROMPTON and WILLIAM GALLAGHER, Salford, Manchester, England. Filed Aug. 14, 1922. Serial No. 581,814. 4 Claims. (Cl. 126—163.)

1. Furnaces for boilers, and the like, comprising flat bars set on edge and arranged longitudinally of the furnace at a distance apart such as to produce a series of longitudinal channels, fire-bars transversely arranged

across and upon the said channel bars, closure members hinged below the channels and transversely arranged rel-



atively thereto, and a single sliding bar and complemental inclined planes whereby all the closure members can be simultaneously operated, substantially as described.

1,454,230. INDICATING DEVICE FOR AUTOMOBILE RADIATORS. RAYMOND R. FUDGE, Fort Worth, Tex. Filed Sept. 23, 1922. Serial No. 590,102. 2 Claims. (Cl. 73—52.)

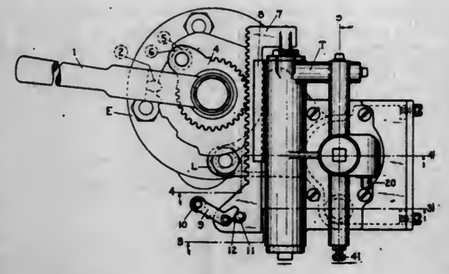


1. An auto radiator temperature indicator including a dial having an upper danger indicating area, a lower subnormal indicating area and an intermediate normal indicting area, a mercury tube carried by the dial and projecting therebelow, a perforated tubular stem surrounding the projecting end of the tube, a sleeve surrounding the stem and spaced therefrom to form a water space in conjunction therewith, a water collecting cup secured to the sleeve adjacent the top thereof, the sleeve having perforations to conduct the water entering the cup into the water space, and heat radiating fins carried by the sleeve and disposed below the cup.

1,454,231. BRAKE-CONTROLLING MECHANISM FOR AUTOMATIC TRAIN-CONTROL SYSTEMS. MAURICE F. GEER, Irondequoit, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 27, 1919. Serial No. 347,683. 34 Claims. (Cl. 303—18.)

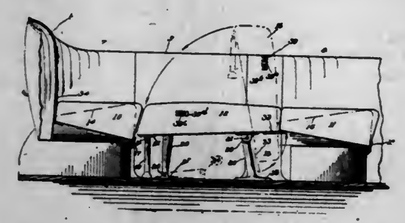
1. In an automatic train control system, operating mechanism for engineers' brake valves comprising a gear loosely mounted on the stem of the valve, means carried by said gear for releasing the latch of the valve and operating the handle to a brake applying position, and means adapted to be controlled electrically for rotating said gear.

33. Brake control apparatus for train control systems comprising, in combination with the usual engineer's brake valve of an air brake system, operating mechanism responsive to air pressure for shifting the brake valve to a brake applying position, a normally energized electro-pneumatic valve adapted when deenergized to render said operating mechanism effective, contacts operated by said electro-pneumatic valve and closed only while it is energized, a stick circuit including said contacts for ener-



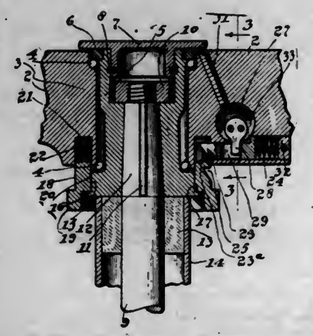
gizing said valve, automatic means for breaking the stick circuit, a pick-up circuit for said valve, and time controlled means initiated concurrently with the deenergization of said valve for closing its pick-up circuit after a predetermined interval of time.

1,454,232. AUTOMOBILE SEAT. CHARLES E. GILBERT, Chicago, Ill. Filed Aug. 27, 1921. Serial No. 496,141. 3 Claims. (Cl. 155—7.)



1. The combination with the front seat, the back seat, and a front seat-back for an automobile, of a floor supported leg pivoted to said front seat-back at a point removed from the lower end thereof a distance substantially equal to the distance at which the pivot is removed from the edge of the front seat.

1,454,233. LOCK FOR AUTOMOBILE STEERING WHEELS. RUDOLF R. GRAEBERT, Chicago, Ill., assignor, by mesne assignments, to Bernard Meyers, Chicago, Ill. Filed July 19, 1920. Serial No. 397,520. 11 Claims. (Cl. 70—129.)



11. The combination with an automobile steering wheel post, of a locking ring adapted to move by gravity for

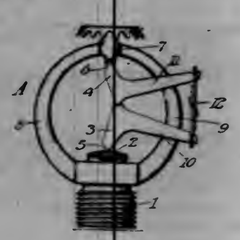
locking the wheel in its operative position, and an automatically locking means adapted to lock the wheel in its operative position.

1,454,234. AUTOMOBILE STEERING WHEEL. RUDOLPH R. GRAEBERT, Chicago, Ill., assignor to Charles G. Baunach, Chicago, Ill. Filed Sept. 22, 1922. Serial No. 589,908. 4 Claims. (Cl. 74—33.)



1. A tilting steering wheel comprising a rim and a pair of members secured thereto, a hub having a trunnion journaled in one of said members, and a retractable spring-pressed pin mounted in the other member adapted to serve both as a trunnion for cooperation with said first-named trunnion and a locking means for securing said hub to said members.

1,454,235. PROCESS OF MAKING AUTOMATIC SPRINKLERS. WILLIAM GRIMSHAW, Glen Ellyn, Ill. Filed Apr. 7, 1922. Serial No. 550,255. 2 Claims. (Cl. 29—157.)



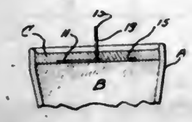
1. The process of subjecting automatic sprinklers to desired operating stresses, which consists in supporting the parts of the sprinkler in assembled relation, and subjecting the strut abutments at the outer ends of the arms of the sprinkler to a swaging action adapted to impart a permanent set thereto sufficient to develop a desired operating stress in the parts of the sprinkler, substantially as described.

1,454,236. MOISTENER FOR CIGARS. GEORGE H. GUNNELL, Morristown, N. J. Filed Aug. 29, 1921. Serial No. 496,401. 2 Claims. (Cl. 131—30.)



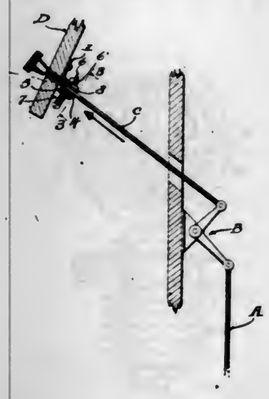
1. A cigar moistener comprising an open ended moisture container through which air is intended to circulate, and a shield in which said container is arranged to prevent direct contact of the cigars with the container.

1,454,237. COVER GRIP. JOHN A. HAGERSTROM, Cranford, N. J. Filed Apr. 17, 1922. Serial No. 554,239. 8 Claims. (Cl. 215—46.)



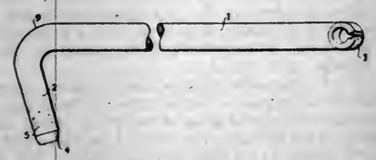
1. An article of the character described comprising in combination with a container and the covering-seal therefor, a base member arranged to reinforce the seal, and an element constituting a grip for the latter extending from said member.

1,454,238. FRICTION-GRIP CHOKE CONTROL. ADAM W. KAUFMAN, Milwaukee, Wis. Filed July 22, 1922. Serial No. 576,855. 3 Claims. (Cl. 74—39.)



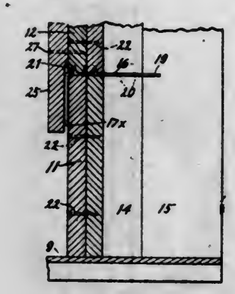
2. In an automobile provided with an instrument board and an engine with a carburetor having an air valve; the combination of a reciprocative rod connected to the air valve and passing through the instrument board, an angle iron plate secured to the instrument board transversely of the rod, friction strips carried by the angle iron plate between which the rod passes, and a spring controlled plate for pressing the friction strips together.

1,454,239. NAIL PULLER. GOZO KAWAMURA, New York, N. Y. Filed Jan. 13, 1922. Serial No. 528,899. 2 Claims. (Cl. 254—25.)



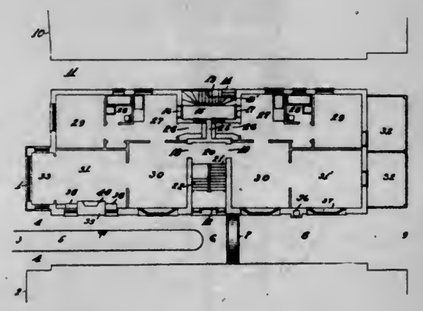
1. A nail puller including a shaft having, on each end, a lifting arm extending at a substantial angle to said shaft, said shaft and one of said arms lying in a plane at an angle to that in which said shaft and the other said arm lies, each of said arms having a nail extracting device.

1,454,240. GRAIN-DOOR FASTENER. OSCAR A. KNEELAND, Minneapolis, Minn., assignor of one-half to Victor T. Neander, St. Paul, Minn. Filed Mar. 7, 1922. Serial No. 541,843. 6 Claims. (Cl. 20—30.)



1. The combination with a structure having a door opening, of a door closing the opening from inside the structure, said door composed of horizontal sections placed edge to edge one upon another and metallic anchors fastening the ends of the sections together and to the door posts, in a detachable manner, each of said anchors consisting of a flat bar adapted to rest across the top edge of one of the sections and having its inward end formed with a downwardly extending arm, its outward end formed with a lateral prong adapted to be driven into the part of the structure adjacent the door opening and its upper side provided with a prong adapted to engage in the next higher door section, and means preventing upward movement of the sections.

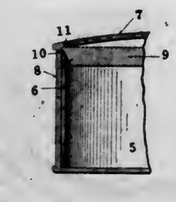
1,454,241. APARTMENT HOUSE. DOMINIK KOLLMER, Chicago, Ill. Filed Mar. 13, 1922. Serial No. 543,488. 5 Claims. (Cl. 20—1.1.)



1. In an apartment house, a front apartment, a rear apartment on each floor and two stairways located between said apartments, and entrances to the house located on opposite sides thereof, those on one side of the house communicating with one stairway and those on the other side communicating with the other stairway.

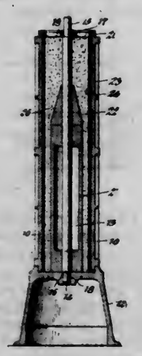
1,454,242. POWDER BOX. JOHN D. MCFARLAND, St. Louis, Mo. Filed Nov. 12, 1921. Serial No. 514,506. 6 Claims. (Cl. 229—43.)

1. In a device of the class described, the combination with a box body having an upwardly extending flange, of a lid having a downwardly extending flange telescoping with said first named flange, and a member forming with



one of said flanges a V-shaped groove into which the other of said flanges is adapted to be forced to form an impervious joint.

1,454,243. METHOD OF MAKING PATTERN-PRINTING ROLLS. JAMES W. MCINDOE, Lockport, N. Y. Filed Apr. 18, 1921. Serial No. 462,312. 1 Claim. (Cl. 18—58.)



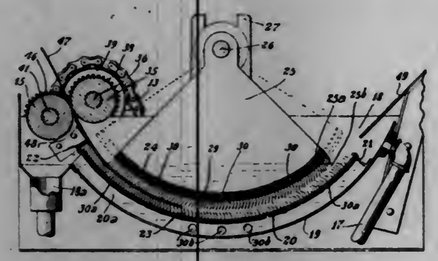
The herein described method of making a printing roll having an intaglio pattern in its surface, which consists in applying an ornamental pattern sheet, such as lace or the like, to a flexible backing, rolling said backing into cylindrical form and placing it in a mold with the pattern on the inner face of the backing and the rear side of the backing bearing against the inner side of the mold, placing a spindle axially in the mold and pouring a molding composition into the space between said pattern sheet and said spindle, whereby the printing roll is molded upon the spindle and the pattern is reproduced upon the surface of the printing roll.

1,454,244. DIPPING DEVICE. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 28, 1921. Serial No. 480,958. 24 Claims. (Cl. 91—31.)

3. A dipping device comprising a liquid-container, a reciprocating work feeder therein, and means for preventing recession of the work.

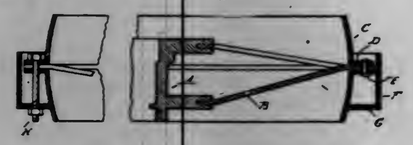
17. A dipping device comprising a container, two sets of teeth adapted to engage opposite sides of the work within said container, means for yieldingly holding said sets of teeth together upon the work, means for moving one of said sets of teeth relative to the other to advance

the work, and a pair of presser rollers adapted to receive the work as it passes from between said sets of teeth and to press excess liquid from the work.



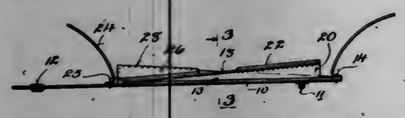
22. A device of the character described comprising a reciprocating work-feeder and a work-recession-preventing structure composed of carding cloth.

1,454,245. VEHICLE WHEEL. HARRY O. MAINZINGER, Detroit, Mich., assignor to Whitehead and Kales Co., Detroit, Mich., a Corporation of Michigan. Filed July 30, 1920. Serial No. 400,181. 11 Claims. (Cl. 301—39.)



8. In a vehicle wheel, the combination with a rim member having a circumferential traction projection, of a temporary tread member detachably engaged with said rim member and formed with an inwardly projecting annular flange seating upon the rim member and clamping members detachably engaging said seating flange with said traction projection, said clamping members having projections seated upon the rim and transmitting stresses from the tread member to the rim.

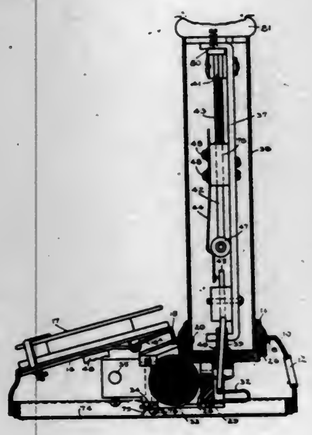
1,454,246. POCKETBOOK. ROBERT MALZAHN, West Bend, Wis. Filed May 2, 1922. Serial No. 557,829. 3 Claims. (Cl. 150—38.)



1. The combination of an elongated, flexible member, a rectangular flexible member having two adjacent sides secured to said first mentioned member, and a second rectangular member having a pair of adjacent sides secured to said first mentioned rectangular member along the free edges of said first mentioned rectangular member.

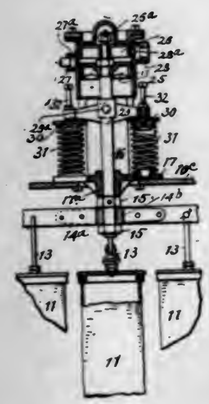
1,454,247. DESK STAND. RAY H. MANSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 12, 1920. Serial No. 365,211. 18 Claims. (Cl. 179—147.)

1. A desk stand having in combination, a base, a column, said base and column each being provided with an opening, a column socket for connecting said column to said base, a projection on said socket to engage the opening in said column and base, a bracket also provided



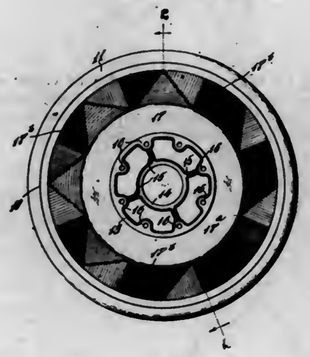
with an opening to receive said projection, a nut for securing said bracket to said base, and a cover for said base secured to said bracket.

1,454,248. FILTERING APPARATUS FOR AIR AND THE LIKE. STEPHEN J. MARX, Cleveland, Ohio, assignor to The Cleveland Air Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 16, 1919. Serial No. 311,195. 15 Claims. (Cl. 183—34.)



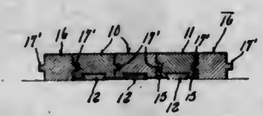
1. In a filtering apparatus for air and the like, a casing containing a plurality of filtering bags through which the medium to be filtered is adapted to pass, a pneumatic shaking mechanism comprising a cylinder and piston, a shaft connected to the piston and operatively connected to the ends of the bags in the casing whereby when air is admitted to the cylinder the piston and shaft will be moved in one direction, and a plurality of springs each positioned at one side of said shaft and acting to restore the piston and shaft to normal position when the air pressure is relieved.

1,454,249. CAST-METAL WHEEL. LEO MELANOWSKI, Cleveland, Ohio, assignor of one-third to Warren H. Cowdery and one-third to George B. Durell, both of Cleveland, Ohio. Filed Apr. 22, 1920. Serial No. 375,670. 5 Claims. (Cl. 301—64.)



4. A cast metal wheel for automobiles comprising a hub portion, a peripheral tire receiving portion and a connecting web portion, the outer portion of said web being corrugated upon radial lines, the inner portion of said web being flat and lying in a plane transverse to the axis of the wheel body, the peripheral portion being wider than the hub portion.

1,454,250. PARQUET FLOORING. WILLIAM A. PARSONS, Milwaukee, Wis. Filed Nov. 17, 1921. Serial No. 515,750. 1 Claim. (Cl. 20—8.)



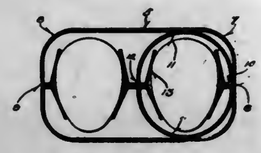
A parquet flooring comprising a plurality of blocks, each having a groove directed upwardly from its bottom surface, and a pigeon-tail fitting into said groove and holding said blocks together, said pigeon-tail extending below the bottom of said blocks.

1,454,251. FASTENER. JAMES F. POWELL, Flint, Mich., assignor of fifty-one per cent to Victor F. Brown, Ann Arbor, Mich. Filed Apr. 19, 1920, Serial No. 374,857. Renewed Oct. 6, 1922. Serial No. 592,846. 7 Claims. (Cl. 24—221.)



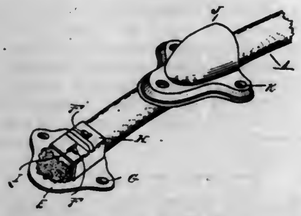
1. A fastener comprising an inturned flange, affording an opening, a turn button, a yieldable shank carried by said button adapted to enter the opening, said shank having a configuration such that when engaged by the flange the shank is shifted outwardly from the button, and means in said button exerting a constant pressure against said shank to retain said shank in engagement with said flange.

1,454,252. EGG CARTON. ALBERT RETZER, Milwaukee, Wis. Filed Jan. 17, 1922. Serial No. 529,889. 3 Claims. (Cl. 229—29.)



3. As an article of manufacture, an egg carton formed from a strip of material folded so that the intermediate portion of the strip forms the top, bottom and sides of the carton, the next adjacent portions of the strip extending in juxtaposed relation from side to side of the carton and having rows of openings cut therein for the reception of eggs, the free end portions of the strip beyond the egg receiving portions each being arcuately curved and disposed so as to extend around one row of eggs and terminate at the juxtaposed portions between the rows.

1,454,253. ANCHOR CONNECTION FOR FLEXIBLE CORDS. PAUL RISSMAN, Detroit, Mich., assignor to Detroit Insulated Wire Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 29, 1922. Serial No. 557,296. 4 Claims. (Cl. 24—265.)



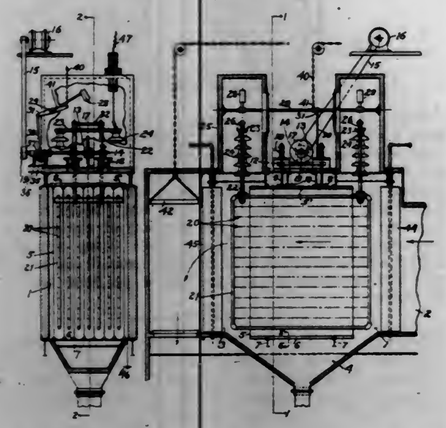
1. An anchor for a flexible cord comprising a plate having prongs struck up therefrom adapted to pass through the flexible cord and to interlock with the core thereof, a clamping plate for embracing the cord above said plate slotted for the passage of said prongs, the latter being clinched to secure said plate, and an escutcheon for covering said clamping plate and base plate, and adapted to bear against said clamping plate to reinforce the same.

1,454,254. CLIP FOR FASTENING WIRE FENCE FABRICS TO POSTS, ETC. ROBERT LEE RONEY, East Orange, N. J. Filed July 10, 1922. Serial No. 573,796. 2 Claims. (Cl. 189—35.)



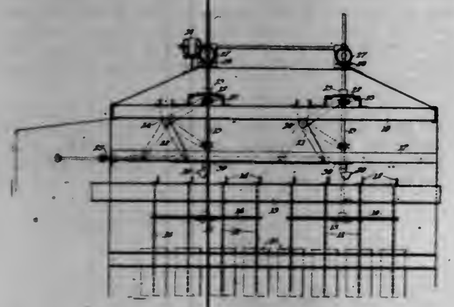
1. As an improved article of manufacture, the clip described composed of a one-piece metallic wire blank doubled upon itself adjacent the center of its length, the bight thus formed constituting a hook, and the wire having its free ends bent at an angle to their length to form independent hooks, said first-named hook and the last-named hooks being engageable with opposite side edges of a post, with the intermediate portions engaging a wire held against the flat face of the post.

1,454,255. APPARATUS FOR ELECTRICAL PRECIPITATION OF SUSPENDED PARTICLES FROM GASES. CHARLES H. WEISKOPF, Santa Monica, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 6, 1921. Serial No. 458,922. 14 Claims. (Cl. 183—7.)



1. In an electrical precipitator, the combination with an electrode system, of means for yieldingly supporting the same, means for shaking the electrode system comprising an unbalanced weight rotatably mounted on the said electrode system to cause vibration of the electrode system by rotation of said weight, bumper means arranged for impact of the electrode system thereon in the vibrating movement thereof, and means for rotating said unbalanced weight.

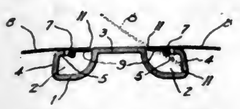
1,454,256. ROTARY MEANS FOR CLEANING ELECTRODES. HARRY A. WINTERMUTE, Branchville, N. J., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1921. Serial No. 465,521. 13 Claims. (Cl. 183—7.)



1. The combination with an electric precipitator having a flexible discharge electrode, of means for acting upon the discharge electrode to swing it into contact with the collecting electrode.

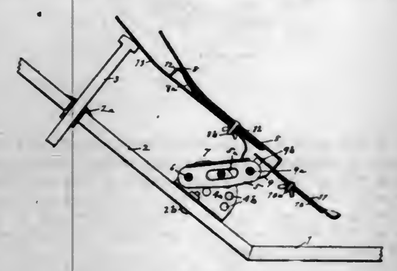
1,454,257. AUTOMOBILE-HOOD HINGE. EDWARD L. ACKERMAN, Detroit, Mich., assignor to Joseph N. Smith & Company, Detroit, Mich., a Corporation of Michigan. Filed May 9, 1921. Serial No. 468,081. 3 Claims. (Cl. 16—135.)

1. In an automobile hood, a supporting member having a central rib portion and a substantially U shaped channel portion on each side thereof, each channel portion having an inwardly turned flange on the outer side thereof, a pintle carried by each flange, a hood member pivot-



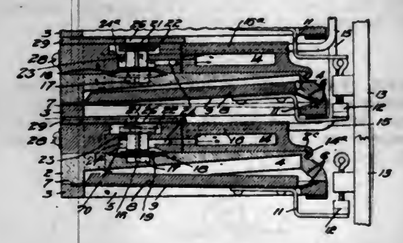
ally mounted on each pintle, the edge of either of the hood members when swung to the upper position engaging a side of the channel portion in a manner to prevent contact with the other portions of the hood.

1,454,258. AUTOMOBILE ACCELERATOR PEDAL. BENJAMIN D. ADAMS, Galesburg, Ill. Filed Mar. 30, 1922. Serial No. 548,115. 4 Claims. (Cl. 74—81.)



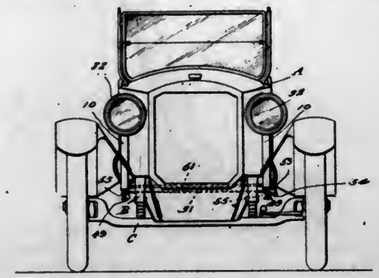
1. In a pedal, a foot plate tiltably mounted, a plate attached thereto underneath and adapted to be adjusted longitudinally with relation to the foot plate and to serve as an extension thereof, and, in combination therewith, a bridge plate between the foot plate and the extension plate, adapted to space said plates apart at their forward portions and to be adjusted longitudinally with relation to said plates, thereby increasing or decreasing said space.

1,454,259. PNEUMATIC ACTION FOR MUSICAL INSTRUMENTS. WILLIS E. AUSTIN, Minneapolis, Minn.; John S. Austin administrator of said Willis E. Austin, deceased. Filed Oct. 5, 1917. Serial No. 194,864. 5 Claims. (Cl. 84—53.)



1. In a pneumatic action for musical instruments, the combination, with a motor chamber having an open wall, of a movable member arranged to close the opening in said wall and provided with a flexible sheet bearing to bear against the wall of said chamber, said flexible sheet being free and unattached except to the movable member, an operating bar secured to said movable member, and means for alternately exhausting the air from said chamber, and permitting it to re-enter therein.

1,454,260. DIRIGIBLE HEADLIGHT. IRVIN ARTHURS, Belle Landing, Pa. Filed Jan. 14, 1922. Serial No. 529,334. 8 Claims. (Cl. 240—61.)



1. A dirigible headlight mounting comprising an upright casing secured at the side of the forward end of a vehicle, a pair of sleeve members rotatably mounted within said casing and arranged in spaced end to end relation, headlamps carried by the upper ends of said sleeve members, means for locking the sleeve members together whereby to effect simultaneous movement thereof, and means connected with the lower end of the lowermost sleeve member and connected with the steering arm connecting rod of the vehicle.

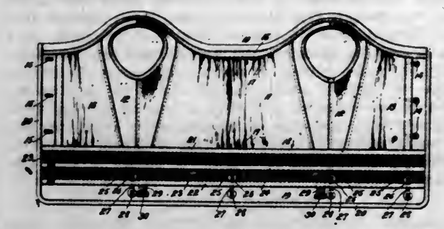
1,454,261. HOLDER AND METHOD OF TRANSFERRING STACKED SUNDAE CUPS FROM CUP-STACKING MACHINES INTO CARTONS. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Manufacturing Company, a Corporation of Illinois. Filed Sept. 25, 1922. Serial No. 590,266. 13 Claims. (Cl. 93—36.)



1. A stacked cup holder comprising a cylindrical tube having a longitudinal opening therein restricted at one end, and a conical flange at one end of said tube having an opening therein registering with the restricted end of the tube opening.

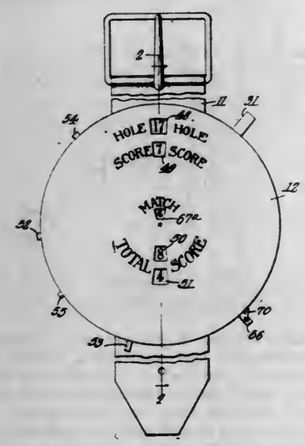
1,454,262. UNDERWAIST. OTTO BASTIANSEN, Brooklyn, N. Y., assignor to Wearite Children's Underwear Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 30, 1922. Serial No. 548,002. 1 Claim. (Cl. 2—98.)

An underwaist of the character described comprising front, side and back sections and a waistband extending through the horizontal length of the garment and consisting of a band of knitted fabric capable of limited longitudinal yield and of material vertical yielding under strains, stay strips at the upper and lower edges and ends of said band and an intermediate stay strip secured to and extending lengthwise of said band, said underwaist having, also, button suspending tapes secured there-



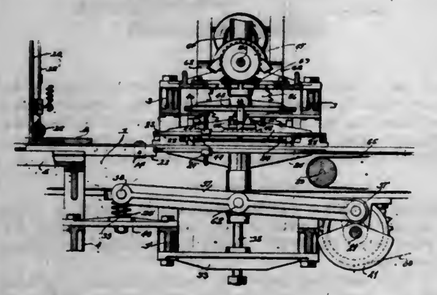
to at suitable points along said intermediate stay strip and along said strip at the lower edge of said band.

1,454,263. GOLF-STROKE REGISTER. BERNHARD M. BESKOW, Miami, Fla. Filed July 8, 1921. Serial No. 483,229. 10 Claims. (Cl. 235—116.)



1. A golf stroke register comprising a suitable casing, a concentric series of nested rotary dials for indicating the counts of the various phases and plays of the game, manual means, including pawls, for turning said dials, and resetting means, including returning springs, levers and shields, whereby said dials may all be returned to zero.

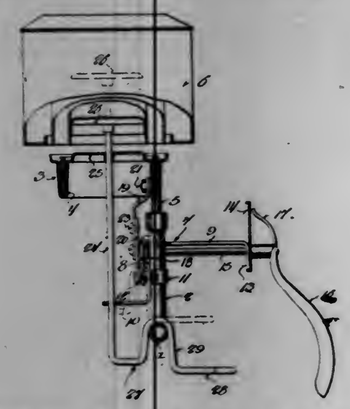
1,454,264. WOODWORKING MACHINE. CLEMENT F. BONIN, Denmark, Wis. Filed July 18, 1921. Serial No. 485,016. 1 Claim. (Cl. 147—38.)



A circular head cutting machine, comprising a pair of aligned normally spaced gripping discs, adapted to re-

ceive a blank, cam controlled means for imparting axial movement to the discs after a blank has been inserted therebetween, positively driven clutch mechanism for engagement with the associated discs, whereby they are rotated after they have been moving axially in a blank gripping operation, a circular dished saw associated with the discs, having its cutting edge above the normal plane of a blank carried by said discs, an annulus carried by the upper of said discs, a pair of yielding guide runners each attached intermediate its ends to said annulus, each of said runners being elongated and curved upwardly at its ends to permit the blanks to slide into place.

1,454,265. BURNER-DRUM-LIFTING MEANS. JOHN S. BRENNAN, Milwaukee, Wis. Filed May 18, 1920. Serial No. 382,387. 1 Claim. (Cl. 158—90.)



In a burner structure, a burner head, a supply pipe having a substantially horizontal and a vertical portion on which the head is supported, a burner drum normally seated on the burner head, a substantially vertical lifting rod connected with the drum, the lower end of the rod having an inverted U-shaped extension adapted to seat on said horizontal portion when the drum is in its lowered position, and a handle on the outer end of said extension engageable with said horizontal portion to support the drum when the latter is in its elevated position.

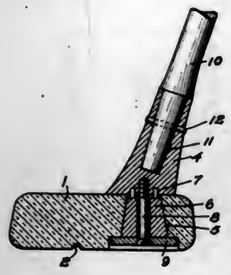
1,454,266. CARTRIDGE FUSE. HENRY T. BUSSMANN, St. Louis, Mo. Filed May 7, 1919. Serial No. 295,377. 5 Claims. (Cl. 200—132.)



1. In a fuse, a casing, a cap, a terminal, means for preventing the outward movement of the terminal, and a pin extending through the casing and beside the terminal against which pin a portion of the terminal abuts to prevent inward movement of the terminal.

1,454,267. GOLF CLUB. HERBERT D. CHALLIS, Pittsburgh, and SAMUEL J. WILLIAMSON, Sewickley, Pa. Filed Apr. 12, 1921. Serial No. 460,686. 2 Claims. (Cl. 46—4.)

1. In a golf club structure, the combination of a head having a vertical upwardly tapered opening through it, a shank-receiving ferrule applicable to the upper surface of the head, a block of corresponding shape with the said tapered opening through the head adapted to be introduced into the tapered opening in the head and



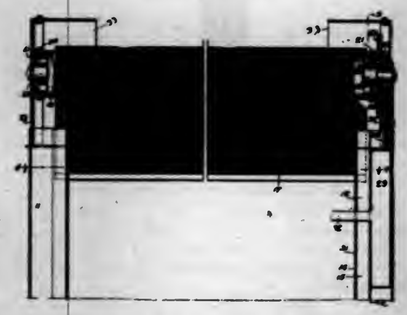
being introduced to interlock with said ferrule, and a bolt member adapted to unite ferrule with head and to secure said block in position in said opening.

1,454,268. METAL TIE AND FASTENER TO SECURE RAILS THEREON. JOHN T. CLARK, Provo, Utah. Filed May 31, 1922. Serial No. 564,714. 4 Claims. (Cl. 238—31.)



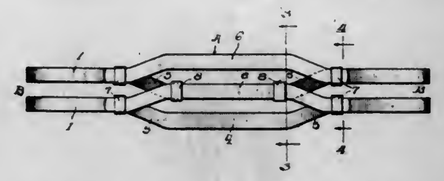
1. A railway tie and fastener comprising two detachable portions each having a channel-shaped end and a portion of the bottom struck downwardly to engage the roadbed; bolts to secure said portions together; and springs carried on said bolts to allow the bending of the tie at its junction.

1,454,269. FIREPLACE GUARD SCREEN. LOUIS F. EISELE, Philadelphia, Pa. Filed May 29, 1920. Serial No. 385,189. 3 Claims. (Cl. 126—202.)



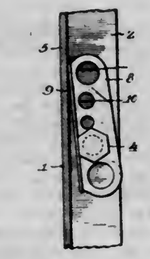
1. A fireplace of the character described including a rotatably mounted roller; a screen adapted to be wound upon said roller; an upright structure providing a guideway for said screen and having a slot therein at a position leading from the side of said guideway; a counterbalance weight slidably fitting said guideway; a winding member rotatable in conjunction with said roller; and a flexible connection for said weight and adapted to be wound on said winding member, said weight having a handle projecting therefrom outwardly through said slot and parallel with said screen in the guideway; substantially as described.

1,454,270. AUTOMOBILE BUMPER. MELVIN B. ERICSON, Evanston, Ill., assignor, by mesne assignments, to Bifex Products Company, a Corporation of Delaware. Filed June 29, 1921. Serial No. 481,184. 7 Claims. (Cl. 293—55.)



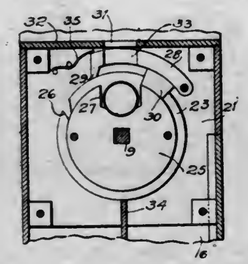
4. An automobile bumper having an impact member comprising parallel bars spaced apart vertically and each bar having a vertically offset portion intermediate its ends, and an auxiliary offset portion forming with said offset portion, a central impact section of increased width, the adjacent offset portions of each bar being secured together in flatwise overlapping contact.

1,454,271. BOLT-LOCKING DEVICE. HARRY C. EVELYN, Chicago, Ill. Filed Jan. 6, 1922. Serial No. 527,327. 2 Claims. (Cl. 151—44.)



1. An article of manufacture for the purpose described, comprising a plate having a plurality of holes of different sizes arranged lengthwise thereof, and adapted to fit bolts of corresponding sizes, and provided with a flange extending adjacent said holes, and positioned with respect thereto to form an abutment for the heads of said bolts.

1,454,272. COIN-CONTROLLED DISPENSING MACHINE. LEMUEL M. EZELL, Nashville, Tenn. Filed June 14, 1921. Serial No. 477,542. 3 Claims. (Cl. 194—63.)



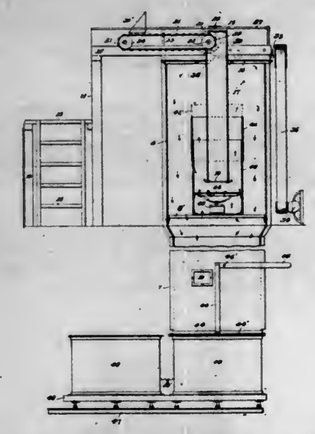
1. A coin-controlled dispensing machine including a housing having a coin slot, dispensing means including a rotatable operating shaft, a wheel rigidly mounted upon the shaft and beneath the coin slot and provided with an annually extending peripheral groove and a coin pocket in the bottom of the groove, the peripheral face being provided with notches upon opposite sides of the groove and in spaced relation to the coin pocket, and a spring-pressed pawl pivotally mounted adjacent said wheel and extending circumferentially thereof and having its free end portion provided with a tooth extension for fitting into said notches to lock the wheel against rotation in one direction, the pawl being further provided with a lug entering the peripheral groove of said wheel and engaging the bottom thereof and adapted to move into the coin pocket when empty and permit the tooth extension of the pawl to enter said notches.

1,454,273. AMUSEMENT DEVICE. JOHN A. FISHER, Sandusky, Ohio. Filed Mar. 16, 1922. Serial No. 544,135. 13 Claims. (Cl. 104—75.)



6. In an amusement device, the combination of a track, a passenger car adapted to travel along said track, means whereby the car is caused to rotate on its axis while traveling along the track, and means whereby the occupant of the car may augment and retard such rotation.

1,454,274. MACHINE FOR AND METHOD OF MAKING MICA BOARDS. LOUIS T. FREDERICK, Akron, Ohio. Filed Sept. 18, 1919. Serial No. 324,331. 9 Claims. (Cl. 154—1.)

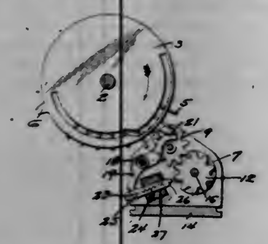


1. In a machine of the type described, the combination with a tower, of means for feeding flake material to the upper end thereof, means adapted to batter the flakes upon entering the tower, and means associated with the battering means to cause the flakes to travel in a directly reverse path, said last named means enclosing the battering means and being open at the upper and lower ends thereof.

1,454,275. CALCULATING MACHINE. CARL M. F. FRIDEN, Piedmont, Calif., assignor to Marchant Calculating Machine Company, Oakland, Calif., a Corporation of California. Filed June 8, 1920. Serial No. 387,439. 9 Claims. (Cl. 235—79.)

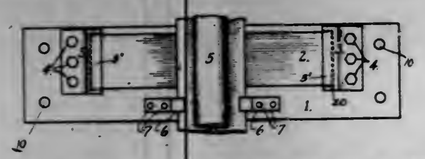
1. In a calculating machine, a plurality of rotatable counting wheels having adjustable teeth, registering

mechanism including a plurality of pairs of meshing toothed wheels, one of the wheels of each pair being arranged to be engaged and rotated by the adjustable teeth on said counting wheels, detents cooperating with the other toothed wheels of each pair, means actuated by the adjusted teeth on any counting wheel for moving the



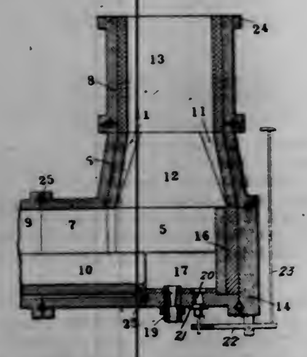
detent from engagement with the corresponding second toothed wheel during engagement of the adjusted teeth with the corresponding first toothed wheel and means for simultaneously moving all of the detents from engagement with said second toothed wheels.

1,454,276. RAILWAY-RAIL SUPPORT. ARTHUR R. FUGINA, Louisville, JAMES E. CLOUGH, La Grange, and WILSON H. STILWELL, Paris, Ky. Filed Nov. 14, 1921. Serial No. 515,092. 4 Claims. (Cl. 238—290.)



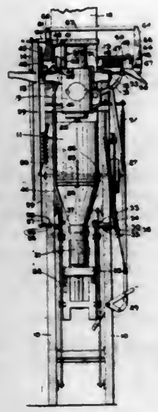
4. In a device of the character described, a base, retaining means secured to the said base at each end thereof, a number of arched springs, lying contiguous, extended between said retaining means and at their ends held in operative contact with the retaining means on said base.

1,454,277. ASH CONVEYER. ALEXANDER GIRTANNER, New York, N. Y. Filed July 6, 1920. Serial No. 394,213. 3 Claims. (Cl. 137—75.)



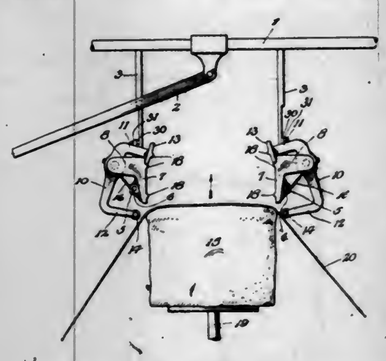
1. An elbow section for ash conveyers, the upwardly extending arm of which is provided with a removable lining consisting of two pairs of parts, the parts of each pair being interchangeable.

1,454,278. AUTOMATIC CONTROLLING MECHANISM FOR FLOUR-PACKING MACHINES. HENRY O'B. HARDING, Minneapolis, Minn., assignor to Washburn-Crosby Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 1, 1920. Serial No. 385,566. 16 Claims. (Cl. 226—25.)



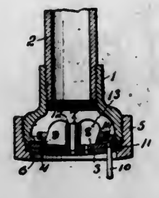
1. In a machine of the class described, the combination with means for feeding the material to be packed, of a support for the bag to be filled movable towards and away from said feeding means, driving mechanism, a control shaft, starting mechanism associated with said control shaft for initiating operation thereof when the bag support is moved towards the feeding means, mechanism operated by said control shaft for establishing driving relation between the driving mechanism and the feeding means, and means operable through instrumentality of the control shaft to disconnect it and the feeding means from said driving mechanism upon a predetermined extent of operation of the control shaft.

1,454,279. LOAF CATCHER FOR BREAD-WRAPPING MACHINES. JAMES R. HAYES, St. Joseph, Mich. Filed Dec. 1, 1921. Serial No. 519,186. 4 Claims. (Cl. 93—2.)



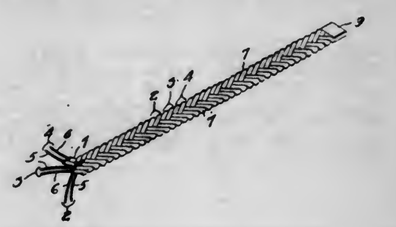
1. Means for the purpose set forth comprising relatively stationary plates to engage the opposite sides of a loaf, rocker arms carried by said plates, presser plates carried by the upper ends of said rocker arms and disposed normally in the path of the loaf, and loaf supports carried by the lower ends of the rocker arms and disposed normally out of the path of the loaf.

1,454,280. SPRAY NOZZLE. FRANK W. HENRIKSON, Mulberry, Kans. Filed Jan. 13, 1921. Serial No. 436,930. 8 Claims. (Cl. 299—144.)



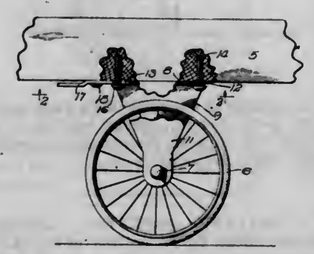
1. A spray nozzle comprising a tubular body, a perforate discharge plate at the discharge end of the body, a rotary member in said body at the inner side of and adjacent to said plate, and a valve intermediate of said rotary member and said perforate plate for closing the perforations of said plate and against which the rotary member revolves, said rotary member being adapted to be rotated by fluid passing through said body and said plate, substantially as set forth.

1,454,281. HAIR WAVER. HARRY G. HOFFMANN and GENEVIEVE B. HOFFMANN, Oakland, Calif. Filed June 16, 1920. Serial No. 389,274. 2 Claims. (Cl. 132—43.)



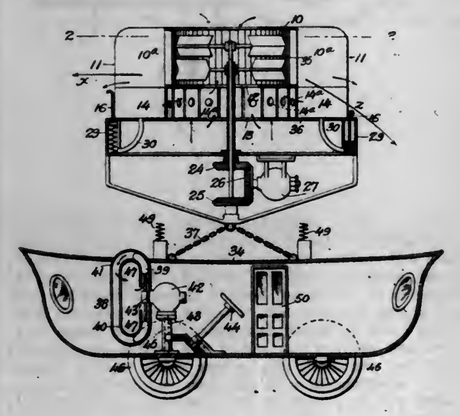
1. In a hair waver, a plurality of wires braided together and formed of a plurality of strands.

1,454,282. DETACHABLE WHEEL MOUNTING. HENRY E. HOLBROOK, Boston, Mass. Filed May 10, 1922. Serial No. 559,733. 1 Claim. (Cl. 280—36.)



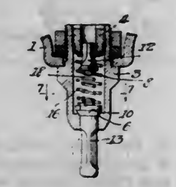
A wheel mounting comprising a wheel carrying member having a flat face provided with open ended slots extending inwardly different distances from opposite edges thereof, a frame structure, a plurality of headed screws projecting from said frame structure in position to be simultaneously engaged in said slots, said slots being so proportioned that the member may be slid in one direction with the forward slots in engagement with the screws until the rear edge thereof clears the other screw and may then be slid in the reverse direction, a shorter distance limited by the depth of the rear slot, whereby all of the screws are simultaneously engaged in their respective slots, and a locking device for preventing disengaging movement of said member relatively to the screws.

1,454,283. AERIAL NAVIGATING APPARATUS. MARCUS HOLLANDER, Brooklyn, N. Y. Filed Apr. 12, 1920. Serial No. 373,168. 14 Claims. (Cl. 244—19.)



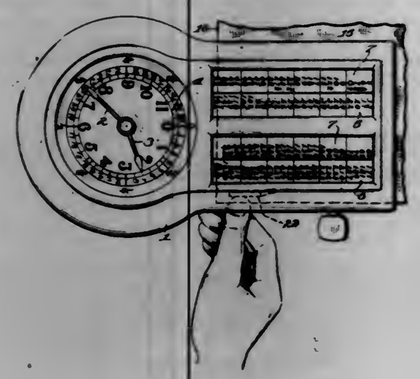
1. In an aerial apparatus, the combination of a casing, divided into outer compartments and having central openings and fans between the openings and adapted to deliver currents of air through and over the compartments.

1,454,284. LIQUID DISPENSER. ALFRED E. HOLMES, Chicago, Ill., assignor to William H. Plunkett, Chicago, Ill. Filed Sept. 3, 1921. Serial No. 498,197. 2 Claims. (Cl. 221—100.)



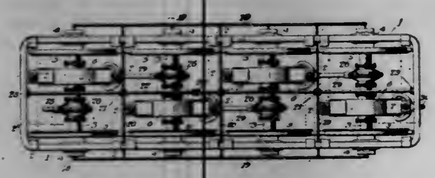
1. A liquid dispenser having a chambered casing having shouldered valve seats at the inner and outer ends, inlet and outlet valves adapted to abut said seats, a stem on the outlet valve having a cut-away portion adapted to permit the exit of fluid from the chamber and a spring interposed between the two valves, said spring being short enough to permit the inlet valve to be away from its seat when the outlet valve is in contact with its seat and long enough to hold the inlet valve in engagement with its seat prior to the time when the cut-away portion of the stem of the outlet valve reaches the outlet valve seat.

1,454,285. FABRIC MEASURING AND COST COMPUTING MACHINE. GREENE CARLTON HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed May 3, 1920. Serial No. 378,350. 3 Claims. (Cl. 33—130.)



1. In a fabric measuring machine, the combination of a measuring roller, a presser roller to co-operate therewith and mounted to move toward or from the measuring roller, marking means for indicating the point where the fabric is to be cut off, holding means co-operating with the presser roller to hold the same away from the measuring roller to permit the insertion of the fabric to be measured between the rollers and having an actuating part for controlling the presser roller located substantially in alignment with the inner end of the measuring roller and in a vertical plane adjacent to the marking means.

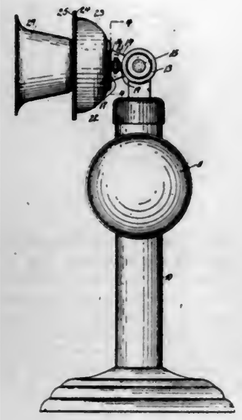
1,454,286. TURBINE LOCOMOTIVE. NELS JOHNSON, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 544,053. 4 Claims. (Cl. 105—31.)



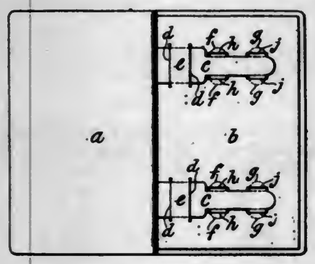
1. A locomotive of the class described comprising a frame, a plurality of horizontally disposed hollow drive shafts journaled in said frame, traction wheels rigid with said shafts, a turbine unit concentric with each shaft and having a rotor rigid thereon, and means for delivering steam to each of said turbine units through said hollow drive shafts.

1,454,287. TELEPHONE TOY. JOSIAH R. KIDNEY, East Hampton, Conn., assignor to The N. N. Hill Brass Co., East Hampton, Conn., a Corporation. Filed May 15, 1922. Serial No. 560,880. 2 Claims. (Cl. 46—46.)

1. A telephone toy comprising a post, an arm pivotally mounted in the top thereof, said arm formed with a recess and with a groove entering the outer end of the arm and intersecting said recess, a screw having its head entered into said recess and extending forward into said groove and beyond the said arm, a shell mounted on said arm, a disk closing the outer end of said shell, and a mouth-piece turned onto the end of said screw.



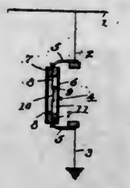
1,454,288. MEANS FOR SECURING BOOKS IN DETACHABLE COVERS. JAMES SAMUEL KING, London, England, assignor of one-half to Charles Knight & Company, Limited, London, England. Filed Aug. 23, 1921. Serial No. 494,501. 6 Claims. (Cl. 281—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



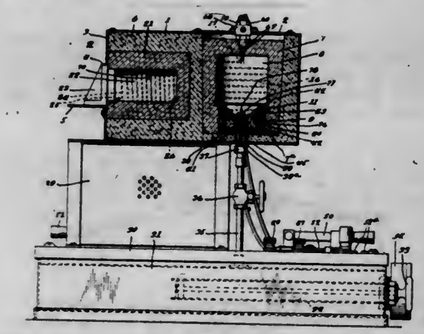
1. The combination of a book having a permanent cover, a detachable cover therefor, straps secured to the detachable cover and loops on the permanent cover of the book through which the straps pass.

1,454,289. LIGHTNING ARRESTER. LAURENCE M. KLAUBER, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif., a Corporation of California. Filed Dec. 3, 1919. Serial No. 342,087. 6 Claims. (Cl. 175—30.)

5. A lightning arresting device consisting of a body, a pair of separated terminals carried by said body, a plurality of metallic links within said body, and a plurality of connections of insulating material operating as destructible dielectric resistances connecting said links in series to each other and to said terminals.

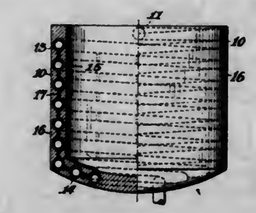


1,454,290. DENTAL CASTING APPARATUS. EDWARD J. KOCHMIT, Cleveland, Ohio. Filed Dec. 23, 1921. Serial No. 524,366. 3 Claims. (Cl. 22—73.)



1. A dental casting apparatus comprising a single casing, and larger and smaller electric furnaces enclosed in said casing, the larger furnace being provided with means to support a mold therein and with vacuum connections to said mold.

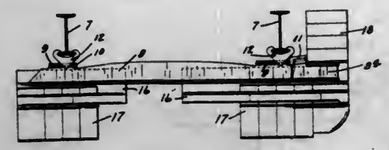
1,454,291. CAST-METAL CONTAINER. JOHN GEORGE LEHMAN, Bethlehem, Pa., assignor to Bethlehem Foundry & Machine Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Feb. 1, 1921. Serial No. 441,563. 8 Claims. (Cl. 126—370.)



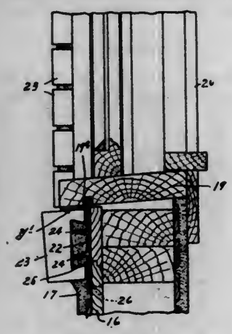
2. A cast metal vessel having within the thickness of its walls a spiral tube, in combination with means within the walls uniting the turns of the spiral and strengthening the vessel.

1,454,292. BEAM HANGER. MICHAEL LIPTAK, St. Paul, Minn., assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn., a Corporation of Minnesota. Filed July 2, 1920. Serial No. 393,711. 4 Claims. (Cl. 110—99.)

1. In a furnace arch, the combination with transverse beams and laterally spaced supplemental beams hung below said main beam, and beam hangers connecting said main and supplemental beam and permitting said supplemental beams to be rocked and hung either horizontally or longitudinally inclined, the said beam hangers having sliding interlocking engagement with said main and supplemental beams.



1,454,293. BRICK TRIM FOR WALLS. MICHAEL LIPTAK, St. Paul, Minn. Filed May 11, 1921. Serial No. 468,692. 2 Claims. (Cl. 72—20.)



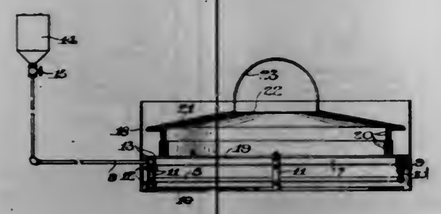
1. The combination with a wooden wall having a wooden framed window opening, of masonry-faced metallic trimming strips applied around the outer portion of said framework and interlocking therewith and secured to said wall, said wall having a stucco outer covering imbedding portions of the metallic facing strips and united with the masonry facing thereof.

1,454,294. BRICK-FACED METALLIC TRIM. MICHAEL LIPTAK, St. Paul, Minn. Filed May 11, 1921. Serial No. 468,693. 2 Claims. (Cl. 72—20.)



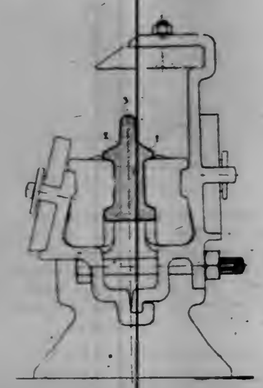
1. As a new article of manufacture, a metallic base plate formed with an irregular face, cement-interlocked to said base plate, and bricks held in bond by said cement and by the latter indirectly secured to said base plate.

1,454,295. TIRE HEATER. WILLIAM A. MAAS and THOMAS J. MAAS, Waterford, Wis. Filed July 15, 1921 Serial No. 484,905. 2 Claims. (Cl. 263—5.)



1. A tire heater comprising a ring-shaped burner, a cylinder shell surrounding the burner, a member carried by the shell and supporting the tires above the burner, and a conical cover disposable within the shell and resting on the uppermost tire or tires and having a central opening.

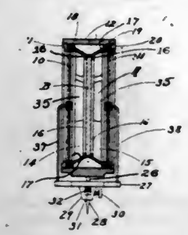
1,454,296. CONTACT RAIL FOR ELECTRIC TRACTION. HIPPOLYTE PARODI, Paris, France. Filed June 15, 1922. Serial No. 568,540. 4 Claims. (Cl. 191—30.)



2. A contact rail for electric traction, allowing currents of great intensities to be collected efficiently under all conditions, said contact rail comprising an upwardly extending rail body having a thin ridge formed at its upper end, against the apex of which ridge current collecting means travelling thereover are adapted to bear.

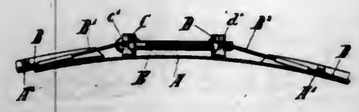
1,454,297. SOUND BOX FOR SOUND-REPRODUCING MACHINES. WALTER SPOFFORTH, St. Paul, Minn. Filed Oct. 17, 1919. Serial No. 331,433. 1 Claim. (Cl. 274—35.)

A sound box for sound reproducing machines, comprising, a cylindrical casing forming an enclosure having a sound transmission duct in its side, a pair of substantially parallel sound reproducing diaphragms in and combining with said casing to form a single sound chamber connected with said duct, a sound board in and of smaller diameter than the bore of said chamber and positioned actively between said diaphragms, a pair of spider frame supports for holding said board spaced from and between said diaphragms and distanced inwardly from the side of said casing so that free passage of air at the circumference of said board is permitted through the spider frames, nonvibrant rings fitted into said casing for seating the outer ends of said spider frames and diaphragms in said casing without readily conducting sound vibra-



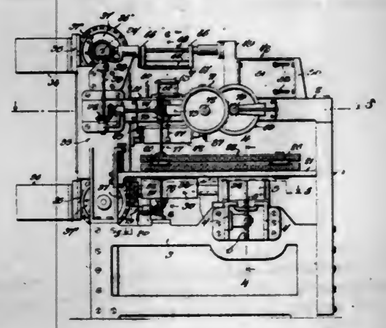
tions, means for clamping said frames, diaphragms and rings tightly in said casing and vibration creating means associated with said diaphragms.

1,454,298. STRETCHING DEVICE. KARL STAHL, Friedrichshafen, Germany, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,608. 4 Claims. (Cl. 24—19.)



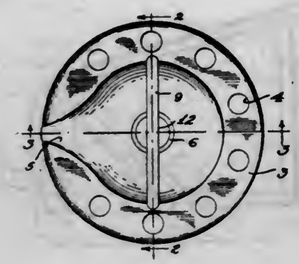
1. In a device of the kind described in combination, a split ring of substantially semi-circular section with ends overlapping one another, a tension means encircling said ring and a turn-buckle connecting the ends of said tension means.

1,454,299. MACHINE FOR CASING IN BOOKS. CLIFTON O. STROM, Racine, Wis., assignor to Nelson Bros. & Strom Sales Co., Racine, Wis., a Corporation of Wisconsin. Filed Dec. 27, 1920. Serial No. 433,409. 13 Claims. (Cl. 11—3.)



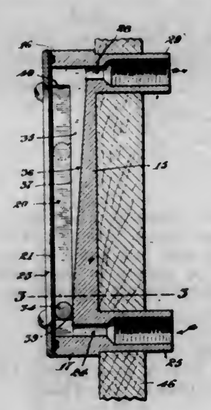
8. A book gluing and assembling machine comprising a saddle, means for converging fillers to the saddle, said means comprising spaced endless conveyor chains provided with gripping fingers adapted to engage the fillers, means for automatically feeding covers into alignment to receive the fillers, and means for conveying the fillers from the saddle to engage the covers.

1,454,300. COMBINATION AGITATOR AND SAMPLER. LEE STURGES, Chicago, Ill., assignor to Solar-Sturges Manufacturing Co., a Corporation of Illinois. Filed Dec. 27, 1921. Serial No. 525,052. 7 Claims. (Cl. 259—144.)



1. A device of the class described comprising a shallow concave utensil, an apertured integral flange thereon, a spout leading from the utensil to the edge of the flange, and a handle secured to the utensil.

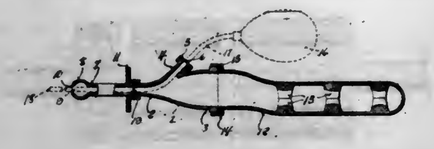
1,454,301. FLUID METER. LESTER E. VAN HISE, Los Angeles, Calif., assignor of one-third to James V. Baldwin, one-third to Percy F. Howell, and one-third to George E. McCreery, all of Los Angeles, Calif. Filed Oct. 4, 1920. Serial No. 414,673. 9 Claims. (Cl. 73—167.)



1. A device for indicating the flow of fluids, comprising a casing formed with a chamber and having a by-pass passage arranged alongside said chamber in open communication therewith throughout the length of the passage, an inlet conduit opening to the lower end of the chamber, an outlet conduit leading from the upper end of the passage, and a revolvable indicator element movable longitudinally of said chamber and rollable in the direction of its path of travel.

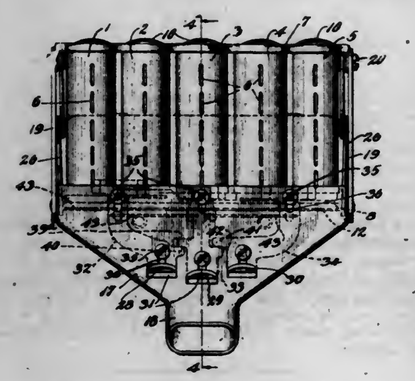
1,454,302. DEVICE FOR BOWEL TREATMENT. AGNES E. WEST, Watertown, Wis. Filed Aug. 7, 1922. Serial No. 580,130. 1 Claim. (Cl. 128—240.)

A bowel treatment apparatus comprising a hollow body portion having an enlarged rear end, a contracted front end, and an angularly extending portion; a flexible excreta receiving bag having a relatively large mouth portion detachably secured to said enlarged rear portion; a



rectal tube detachably secured to said contracted front end; and a vented cap removably closing said angularly extending portion.

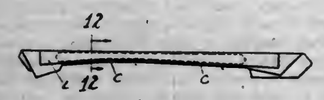
1,454,303. MONEY-PAYING DEVICE. NELSON WHITE, Ithaca, N. Y. Filed Mar. 5, 1921. Serial No. 449,829. 22 Claims. (Cl. 133—4.)



1. A money paying device, including a coin magazine, ejecting means, and a bodily movable discharge chute for actuating the ejecting means and conveying the discharged coin away from the device.

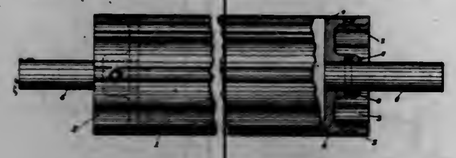
15. A money paying device including a coin magazine, ejecting means associated therewith, a discharge chute, and selective means mounted upon and carried by the discharge chute for the control of the ejecting means.

1,454,304. NECKTIE AND METHOD OF MAKING SAME. ARTHUR WILLIAMS, Dorchester, Mass. Filed Sept. 26, 1921. Serial No. 503,141. 4 Claims. (Cl. 2—11.)



4. A four-in-hand tie comprising a longitudinally folded element provided with a lining member of a width substantially equal to the width of the folded element, said lining member being positioned so as to be offset from one side of one of the folds of the folded element and stitched to said fold, said folded element having its longitudinal edges in coincidence with each other and stitched together beyond the edge of the lining.

1,454,305. CORRUGATED ROLLER. FREDERICK D. WILSON, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Jan. 26, 1920. Serial No. 354,311. 5 Claims. (Cl. 64—17.)



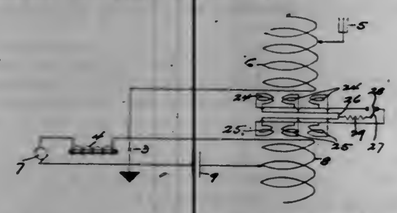
1. As a new article of manufacture, a hollow roller formed of sheet metal and having a surface of longitudinally disposed corrugations, a casting in each end of said roller, each casting having its periphery corrugated, and means to secure the castings in position.

1,454,306. BELLYBAND CONNECTION. LEONARD C. WOOD, Alden, Iowa. Filed Apr. 14, 1922. Serial No. 552,680. 1 Claim. (Cl. 54—1.)



In horse-harness, the combination with a belly-band, a breast-strap having a looped end and side straps, of a U-shaped rigid member enclosing and fastened to the middle of the belly-band, said member having rearwardly projecting spaced eyes with which the off and near side-straps may be respectively engaged, and the loop of said breast-strap being positioned on said member between its end-eyes.

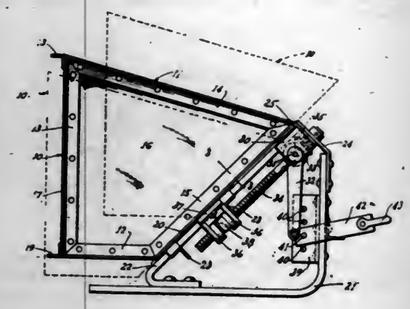
1,454,307. RADIOTELEGRAPHY. ADRIEN L. ANDERSON, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Dec. 23, 1919. Serial No. 346,913. 7 Claims. (Cl. 250—19.)



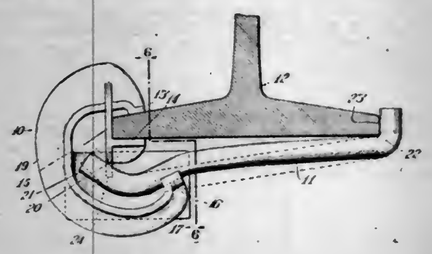
1. In a radio telegraphy transmission system, a source of oscillations, a radiating circuit containing inductance connected to said source, a circuit containing resistance inductively coupled to said inductance, a non-radiating oscillatory circuit containing inductance shunted around said source, a circuit containing resistance inductively coupled to said last named inductance and means for opening and closing the resistance circuits.

1,454,308. STONE SPREADER. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 12, 1921. Serial No. 507,202. 7 Claims. (Cl. 94—44.)

1. In a road material spreading device, a distributing hopper, and runners therefor located inward of the ends thereof, the end portions of the hopper beyond said runners being entirely unsupported with relation to the ground.

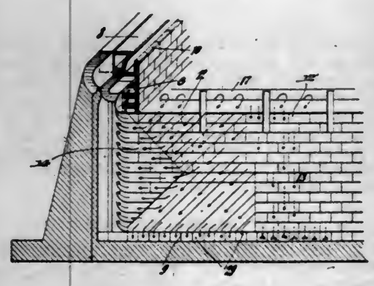


1,454,309. RAIL ANCHOR. LAURENCE J. BERKELEY, Youngstown, Ohio, assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 30, 1922. Serial No. 591,532. 18 Claims. (Cl. 238—329.)



1. A rail anchor comprising a rail base gripping member, and a spring member extending under the base of the rail between said rail and said gripping member and adapted to be stressed in its applied position to exert upward pressure against said gripping member.

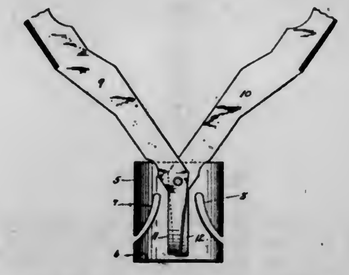
1,454,310. WALL CONSTRUCTION. JOHN FRANCIS BOORAEM, New York, N. Y. Filed Oct. 15, 1920. Serial No. 417,270. 4 Claims. (Cl. 72—0.5.)



1. A chamber comprising walls each containing a retaining portion and a facing therefor and said facing

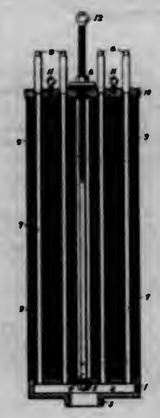
consisting of intermediate rows of sections of terra cotta, tile, or the like, formed with intercommunicating channels and having their side edges secured to one face of the retaining wall, and upper and lower rows of sections formed with channels communicating with the channels of the intermediate rows and with the space enclosed by the chamber.

1,454,311. SEEDING DEVICE FOR GRAPEFRUIT. CHARLES H. BOYLE, New Haven, Conn. Filed Feb. 21, 1923. Serial No. 620,373. 2 Claims. (Cl. 146—3.)



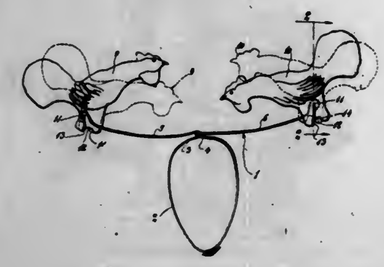
1. A seeding device for grapefruit, comprising a tubular cutter, lever-handles connected therewith, the said handles provided at their lower ends with segmental cutters adapted to be moved toward each other by the separation of the upper ends of the handles.

1,454,312. BLEACHING, DYEING, OR OTHER FLUID TREATMENT OF YARNS WOUND IN THE FORM OF CHEESES. JOHN BRANDWOOD and THOMAS BRANDWOOD, Bury, England. Filed Sept. 14, 1921. Serial No. 500,584. 1 Claim. (Cl. 8—17.)



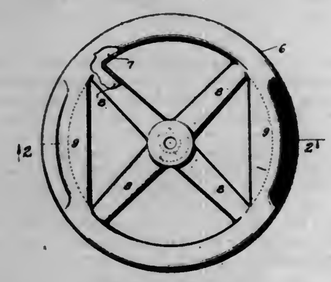
A container for yarn cheeses to be subjected to bleaching, dyeing or other treatment with fluids in a closed receptacle and at a pressure higher than atmospheric, said container comprising a bottom plate provided with an internal chamber, means for placing said bottom plate on a liquid tight seat around liquor opening communicating with the said internal chamber, a central rod vertical to the bottom plate and adapted at its upper end to receive a lifting handle or alternatively screwing down means to press the bottom plate on its seat, vertical perforated tubes adapted to receive cheeses of yarn and opening to the internal chamber of the bottom plate, and a top pressure plate sliding on the central rod and tubes, with means for applying pressure thereto to compress the cheeses between the top and bottom plates to a uniform density.

1,454,313. TOY. DAVID S. CLARKE, Denver, Colo. Filed Nov. 10, 1921. Serial No. 514,222. 3 Claims. (Cl. 46—40.)



1. A device of the character described comprising a spring wire supporting member arranged so that the ends of said supporting member may be moved toward one another at will, transverse axial members integral with said supporting member and disposed at the ends thereof, a pair of figures or cardboard or the like pivotally disposed on said axial members, said figures having stops integral therewith, and means carried by said supporting member adjacent the opposite ends thereof for engaging with said stops to limit the pivotal movement of said figures on said axial members.

1,454,314. CONTROLLING-MEMBER ATTACHMENT. LAWRENCE J. COBUS, Milwaukee, Wis. Filed May 16, 1921. Serial No. 470,155. 3 Claims. (Cl. 237—12.3)

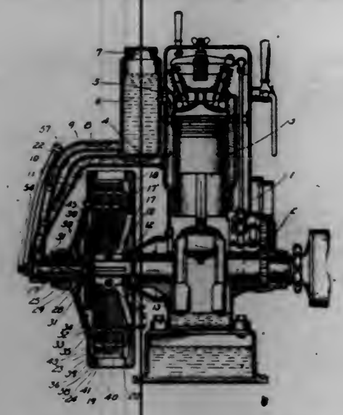


3. A controlling member including a tubular rim, a tubular shield member formed integral with said rim and having its ends communicating with the interior thereof and its intermediate portion spaced therefrom to provide a hand receiving recess.

1,454,315. RADIATOR. EVERETT B. CUSHMAN, Topeka, Kans., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Continuation of application Serial No. 340,601, filed Nov. 25, 1919. This application filed Mar. 8, 1920. Serial No. 364,043. 15 Claims. (Cl. 257—126.)

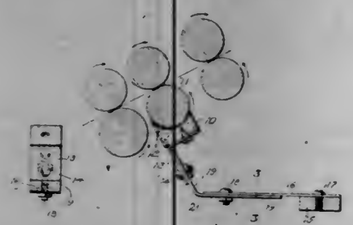
1. In combination with a flywheel, comprising a rim member, a radiator, located interiorly of the rim mem-

ber and attached to the wheel to rotate therewith, both the rim member and radiator having radial openings,



whereby air may enter the radiator and pass therethrough and through the rim member.

1,454,316. CLEARER FOR THE MIDDLE STEEL ROLLERS OF SPINNING FRAMES. DENNIS LEE DOVER, Anderson, S. C. Filed Mar. 20, 1922. Serial No. 545,132. 1 Claim. (Cl. 19—139.)



A device of the class described comprising a supporting head member having one face concaved transversely and the concaved face lined with a yieldable material, perforated arms depending from said head member to receive holding belts, bracket devices adapted to be attached to a stationary support and provided with a holding bolt, bars longitudinally slotted and each bent intermediate the ends at an angle to the remaining portion, the slot and the bent portion of the bar to adjustably engage the bolt of one of the arms and the slot of the remaining portion of the bar to adjustably engage the bolt of the bracket.

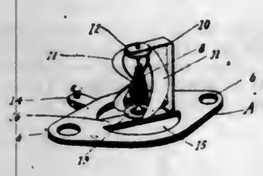
1,454,317. ANIMAL POKE. AMOS ERICKSON, Keota, Colo. Filed Jan. 27, 1923. Serial No. 615,361. 6 Claims. (Cl. 119—140.)

3. An animal poke including a yoke formed of side members converging toward their ends and having their end portions terminating in parallel spaced relation, levers pivoted between the sides of the yoke near the inner portions of said parallel ends, and bolts having spacing sleeves thereon and passing through the outer portions of said parallel ends for rigidly connecting the sides of the yoke in spaced relation, said levers extending outwardly and forwardly with their inner ends disposed behind said bolts whereby the latter forms stop for limiting forward swinging movement of the levers, means to yieldingly swing the levers forwardly into engagement with said bolts, U-shaped stirrups rigidly supported by said bolts with their bases disposed rearwardly of the pivots of the levers in the path of rearward movement of the latter, whereby said stirrups limit the rearward



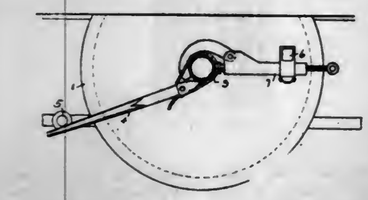
swinging movement of said levers, and rearwardly and inwardly projecting members on the levers having spurs at their inner ends arranged to engage the animal upon rearward swinging movement of the levers.

1,454,318. PREHEATING DEVICE. CARL O. ERICKSON, St. Paul, Minn. Filed Jan. 23, 1922. Serial No. 531,140. 2 Claims. (Cl. 219—38.)



1. In combination with a carburetor outlet and manifold inlet, a perforated plate positioned between the same, an electric heating unit mounted upon said plate and projecting into the manifold inlet and rotatably mounted mixing blades arranged around and extending forwardly alongside said unit.

1,454,319. TONGS. AUGUSTUS M. HAMER, Goose Creek, Tex. Filed June 20, 1921. Serial No. 478,943. Renewed Mar. 31, 1923. 1 Claim. (Cl. 81—175.)



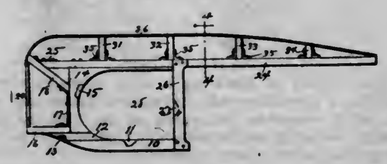
A tong including a handle formed with a square socket in one end, a jaw having a square shank which has a sliding bearing in said socket, a rod threaded through the other end of said handle and having a swiveling connection with said shank in said socket to adjust same lengthwise, a hook pivoted to the handle, and adapted to work in opposition to said jaw, and a detachable toothed arcuate jaw attachment carried by said hook and opposing the slidable jaw and means for securing said attachment jaw in position in said hook.

1,454,320. TIRE TOOL. THOMAS BRACEY JENKINS, Richmond, Ind., assignor to Jenkins Vulcan Spring Company, Richmond, Ind., a Corporation of Indiana. Filed Jan. 13, 1922. Serial No. 528,941. 1 Claim. (Cl. 81—121.)



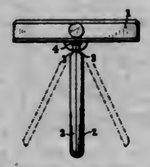
As an article of manufacture, a tire tool consisting of a substantially rigid but resilient metal strip having a lateral bulge at an intermediate point, said bulge being provided with a nut receiving and turning portion.

1,454,321. TOP FRAME AND DECK FOR AUTOMOBILES. FRANK J. KURTZ, Marshalltown, Iowa. Filed Mar. 27, 1922. Serial No. 547,126. 6 Claims. (Cl. 296—102.)



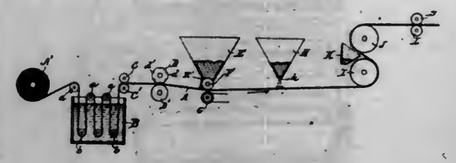
1. A top frame for automobiles, comprising side sills, side members rising therefrom, a lower bow connecting said sills and side members in recumbent position, an inclined bow connecting said side members above the lower bow, a hood bow overlying the side members and projecting forwardly therefrom, said hood bow being connected to the side members and inclined bow, standards connecting the sills to intermediate portions of the hood bow, transverse bows carried by the hood bow, and a deck superposed on the inclined bow, hood bow and transverse bows.

1,454,322. CONVERTIBLE WATCH. SAMUEL LOEB, New York, N. Y. Filed Sept. 18, 1922. Serial No. 588,770. 5 Claims. (Cl. 58—88.)



1. In a device of the class described, in combination, a bezel, and a two part hoop hinged to the bezel, the parts of the hoop being mounted to swing into contact throughout their adjacent faces when at substantially a right angle to the plane of the bezel, or away from each other into substantially the same plane.

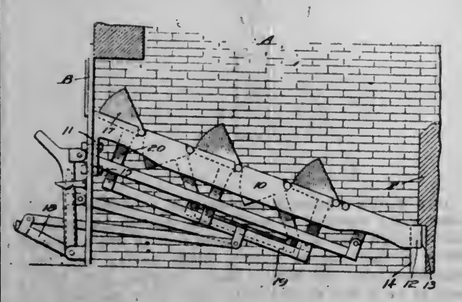
1,454,323. METHOD OF AND APPARATUS FOR MAKING FLEXIBLE ROOFING MATERIAL. HUGH MACINNES, Jersey City, N. J. Filed Nov. 21, 1921. Serial No. 516,566. 7 Claims. (Cl. 91—67.9.)



1. In the art of making flexible roofing material with a design in the exposed surface thereof, the process which consists in subjecting a web of fibrous material to pressure to produce definite areas in intaglio and other areas in relief on one surface of said web, covering the areas in intaglio with a coating material, and feeding granular material to the coated areas of the web whereby said granular material is united by adhesion to the coating material present in the intaglio surfaces of the web.

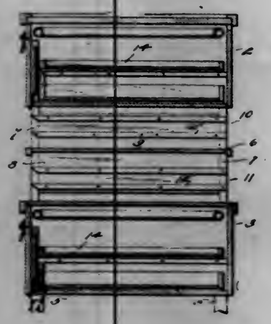
5. In an apparatus for making flexible roofing material with a design on the exposed surface thereof, the combination with means for saturating a web of fibrous material with a heated waterproofing material, of co-operating rolls one of which is a smooth faced roll and the other is a pattern roll operating to compress said fibrous material within definite areas and to produce thereon a pattern surface certain areas of which are in intaglio and other areas in relief, means for covering the areas in intaglio with a coating material, and means for feeding granular material to the coating material present in the intaglio areas of said pattern surface on the web.

1,454,324. MECHANICAL STOKING GRATE SUPPORT. VASIL MACKAY, Washington, D. C. Filed Nov. 7, 1919. Serial No. 336,442. 3 Claims. (Cl. 110—39.)



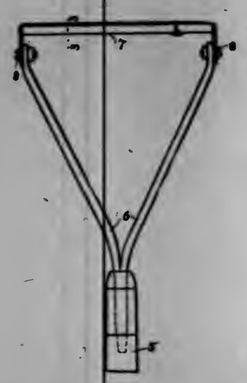
3. In combination with a furnace having a fuel opening in the front wall thereof and a bridge wall formed with sockets, an inwardly extending lip formed at the lower edge of the fuel opening, downwardly inclined side beams having their upper ends in contact with the ends of the inwardly extending lip and secured to the front wall and their lower ends supported in the sockets of the bridge wall, grate bars pivotally supported by the side beams, the uppermost grate bar lying in close proximity to the inwardly extending lip, and means for operating the grate bars.

1,454,325. INCUBATOR. JOHN S. MACKENZIE, Delaware, Ohio. Filed Oct. 26, 1922. Serial No. 596,978. 3 Claims. (Cl. 119—35.)



1. An incubator comprising upper and lower incubation chambers, said chambers being vertically spaced to provide tray receiving chambers.

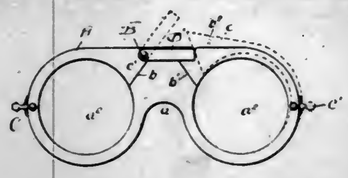
1,454,326. GARDEN WEEDER. OLE MADSON, Ferndale Township, Whatcom County, Wash. Filed Sept. 7, 1920. Serial No. 408,546. 1 Claim. (Cl. 97—69.)



In a garden weeder in combination, a handle, a bifurcated shank fastened in said handle, said shank having a hole through each of its bifurcated ends in line with each other, a thin, narrow cutting blade having one, only, sharpened edge and having short upturned ends with a hole in each end in line with each other pivotally and clampably mounted on said shank with bolts through said holes whereby said blade may be adjusted to a desired position of rotation around said bolt and clamped in said position.

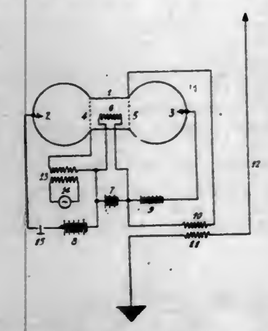
1,454,327. EYE PROTECTOR. ROBERT MALCOM, Chicago, Ill. Filed Apr. 5, 1922. Serial No. 549,794. 4 Claims. (Cl. 88—41.)

1. An eye protector formed of a single piece of material having a nose recess cut in the lower edge thereof and openings for the eyes, said frame having a circumferential channel in each eye opening and slits extending from each eye opening to the edge of the frame whereby said eye opening may be expanded to receive lenses in the



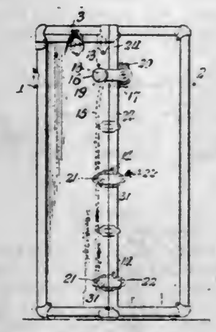
aforesaid channel, a locking member movably secured to said frame and extending across the slit portions thereof to hold same in closed position.

1,454,328. RECEIVING ARRANGEMENT FOR WIRELESS TELEGRAPHY. ALEXANDER MEISSNER, Berlin, Germany. Filed Sept. 3, 1921. Serial No. 498,415. 2 Claims. (Cl. 250—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



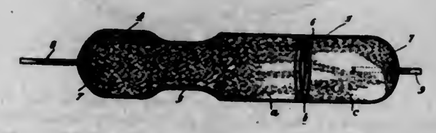
2. The method of operating a radio receiving circuit comprising a thermionic tube having two anodes and two grids, which comprises impressing on one grid the high frequency received oscillations, and impressing on the other grid audio frequency oscillations.

1,454,329. TRUNK LOCK. FRANK W. MEYER, Oshkosh, Wis., assignor to The Oshkosh Trunk Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Sept. 28, 1922. Serial No. 591,027. 9 Claims. (Cl. 70—115.)



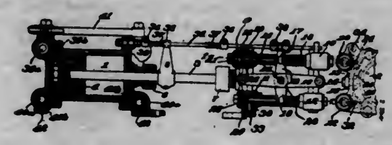
1. The combination with a trunk having two hinged together sections, of locking means therefor, comprising a plurality of spaced locking devices carried by said sections and all located on the outside thereof, one of said locking devices consisting of a movable locking hasp on one section and a co-operating part therefor on the other section, the other of said locking devices having co-operating locking members on the respective trunk sections, and means carried by one of said sections and actuated by said hasp on being turned into and out of a position substantially parallel to the adjacent edges of said trunk sections for locking and unlocking said last named locking members.

1,454,330. ABDOMINAL BAND. MAUDE MINER, Los Angeles, Calif. Filed Jan. 23, 1922. Serial No. 531,188. 4 Claims. (Cl. 128—169.)



1. In an abdominal band, a strip of fabric having wider end portions and a narrower intermediate portion, one of the wider portions having a transverse slit of a length equal to the width of the narrower portion.

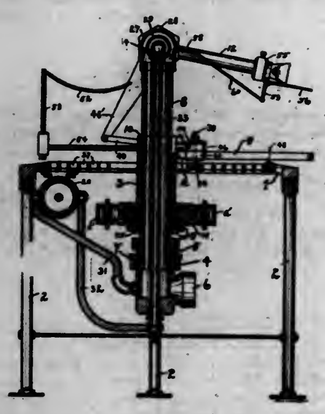
1,454,331. VALVE MECHANISM. EDWARD C. NEWCOMB, Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Filed Apr. 1, 1920. Serial No. 370,364. 5 Claims. (Cl. 121—124.)



1. In a valve mechanism for a steam engine, the combination of a steam cylinder, a steam piston reciprocating therein, inlet and exhaust valves for controlling the flow of steam to and from the cylinder, a rocker extending transversely to the cylinder, a member for actuating the rocker, means for moving the same by the piston in each reciprocating movement thereof, the inlet valves being located opposite to each other, one at each end of the cylinder, and the exhaust valves being located opposite to each other, one at each end of the cylinder, a spring associated with each valve to close the same after it has been opened, an inlet tappet carried by said rocker between said inlet valves, and an exhaust tappet carried by said rocker between said exhaust valves, said tappets cooperating when the rocker is actuated to open an inlet valve at one end of the cylinder and simultaneously open an exhaust valve at the opposite end of the cylinder.

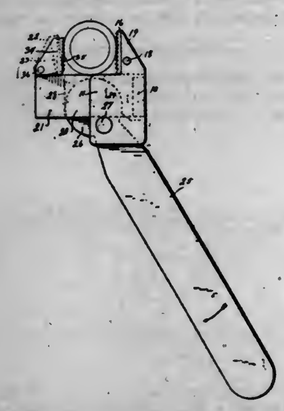
1,454,332. IRRIGATING APPARATUS. JAMES A. NORTON, Odebolt, Iowa. Filed Nov. 3, 1921. Serial No. 512,478. 9 Claims. (Cl. 299—66.)

1. In an irrigating apparatus, an upright, revoluble pipe provided with a nozzle, a stationary platform traversed by the pipe and having a groove surrounding and disposed at varying distances from said pipe, a guide movable with and extending outwardly from the pipe, a shifting-block engaging the guide and having a roller normally engaging in the groove of the platform, mechanism connected with the nozzle and shifting-block to cause the roller to move in said groove for moving the shifting-block outwardly from the pipe and for causing upward and downward swinging movements of the nozzle simultaneous with the revoluble movements of said pipe, and means on the platform for disengaging the roller



from the groove to permit a sliding movement of the shifting-block toward said pipe and to permit a downward swinging movement of said nozzle.

1,454,333. WRENCH. VICTOR L. OCHOA, El Paso, Tex., assignor to Ochoa Tools and Machine Company, a Corporation of Delaware. Filed Mar. 15, 1922. Serial No. 543,939. 4 Claims. (Cl. 81—128.)



1. In a wrench, a handle having a circular head, a jaw pivoted to the head and having a slot and a guideway, a second jaw having a shank extending through the guideway and movable therein and having a slot closed at opposite ends and in which the circular head operates, and a removable wear piece disposed in one end of the slot and bearing against the adjacent end wall thereof and against which the circular head bears.

1,454,334. GARMENT HANGER. NORMAN C. PARKER, Chicago, Ill. Filed Jan. 11, 1921. Serial No. 436,403. 5 Claims. (Cl. 206—7.)

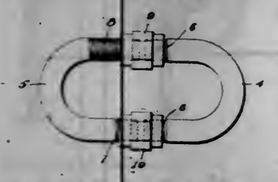
1. A garment hanger including a receptacle having unequal side portions, the longer side portion being reefed at a point between its free and connected ends to provide an outwardly opening pocket, the free ends of the side

portions providing therebetween a lateral mouth through which garments may be introduced into and removed



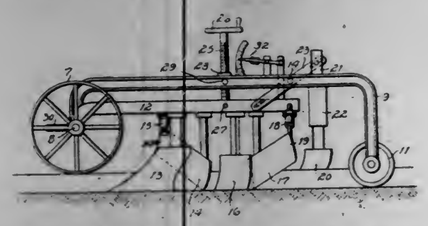
from the receptacle, said free ends being adapted to be turned over to form a flap and the flap being adapted for insertion in said pocket to maintain the receptacle closed.

1,454,335. REPAIR LINK FOR CHAINS. EDWARD PRENDERGAST, St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 450,303. 1 Claim. (Cl. 59—85.)



A repair link for chains formed of two independent U shaped sections, the ends of each section being screw threaded, sleeves mounted on the screw threaded ends for securing the sections together, one end of one section having its screw threads cut farther back than the threads on the remaining ends of the sections so that one of said sleeves may be fully seated on said section and clear the end of the opposing section so as to permit the turning of one section in the remaining sleeve whereby the link may be opened without the removal of either sleeve.

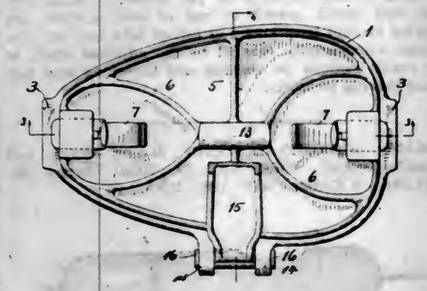
1,454,336. ROAD-DITCHING MACHINE. EDWARD PRENDERGAST, St. Louis, Mo. Filed Dec. 5, 1921. Serial No. 519,884. 5 Claims. (Cl. 37—98.)



1. A road ditcher comprising a frame, wheels for supporting said frame, a plow beam pivotally secured to said frame, a plow carried by said plow beam, side wall cutters carried by said plow beam, a scraping blade carried by said plow beam, a scraper carried by said frame, means for raising and lowering the plow beam to adjust the depth of cut, a connection between the plow beam and the scraper carried by the frame for operating said scraper in a direction opposite to the movement of the plow beam, and a gage for indicating the depth cut by the plow.

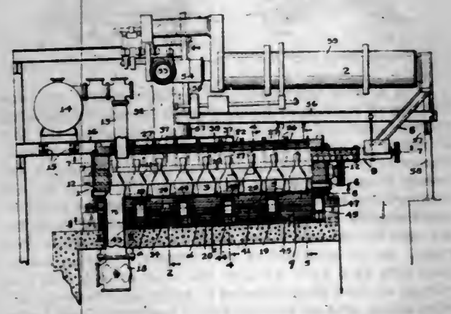
1,454,337. HAM BOILER. JOSEF REINARTZ, Mount Vernon, N. Y. Filed July 21, 1920. Serial No. 398,016. 4 Claims. (Cl. 100—57.)

1. A ham-boiler comprising a vessel adapted to receive the ham and provided with inner recesses at its opposite ends, a lid snugly fitting into said vessel, and gravity controlled slidable locking bolts provided on top of said lid so as to automatically engage said recesses, as the lid is being forced into said vessel, to thereby prevent outward movement of the said lid.



4. A ham-boiler comprising a vessel having a row of inner recesses at opposite ends, a lid snugly fitting into said vessel and having a central cam-like elevation, and inclined faces at its ends, movable locking bolts placed on said inclined faces so as to automatically engage said recesses as the lid is being forced into the vessel, a fulcrum provided on one side wall of the vessel, a separate hand-lever having means for engaging said fulcrum and adapted to be pressed down onto said cam-like elevation, and a loose partition fitting in said vessel adapted to be placed between two hams.

1,454,338. FURNACE-RETORT. CHARLES E. RICHARDSON, Newark, N. J., assignor to International Coal Products Corporation, Richmond, Va., a Corporation of Virginia. Filed Aug. 2, 1919. Serial No. 314,887. 23 Claims. (Cl. 202—4.)

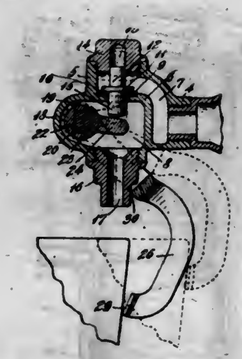


1. A furnace-retort having a longitudinally extending inner wall or retort shell, flat bottom saddles spaced from each other and arranged along the inner wall or retort shell and serving as supports therefor, a flat top saddle support for each saddle, and a layer of flat sheet copper and a layer of flat sheet asbestos between each saddle and its support.

1,454,339. METHOD OF TREATING CELLULOSE PULP TO REMOVE ODORS THEREFROM. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 28, 1921. Serial No. 518,440. 3 Claims. (Cl. 92—9.)

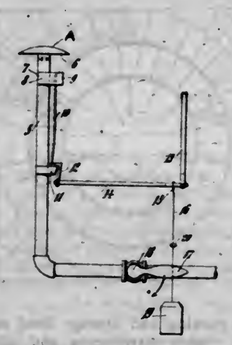
1. A process of removing malodors from sulphate pulp which comprises treating such pulp with an oxidizing agent sufficient to react with the malodorous comopunds therein contained without materially changing the color of the pulp.

1,454,340. SELF-CLOSING FAUCET. THEODORE H. SCHUTT, Cleveland, Ohio, assignor to The Russ Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,840. 1 Claim. (Cl. 251—116.)



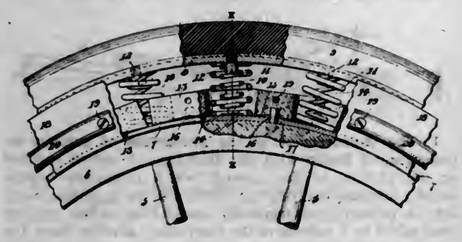
A self-closing faucet, comprising a casing provided with pressure and discharge chambers, a valve controlling the flow of liquid from the pressure to the discharge chamber, a shaft rotatable in the casing and having a portion lying in the discharge chamber and operatively associated with said valve, a yoke member for engagement by the side wall of a receptacle, one arm of said yoke member being fixedly mounted on one end of said shaft, the other end of said shaft having rotatable bearing in the wall of said casing, and a trunnion fixed in the wall of said casing and affording bearing for the other arm of said yoke member.

1,454,341. SAFETY CONTROL FOR AUTOMATIC GAS APPLIANCES. GERHARDT F. SCHWARTZ, St. Louis, Mo. Filed Feb. 25, 1921. Serial No. 447,664. 4 Claims. (Cl. 67—116.)



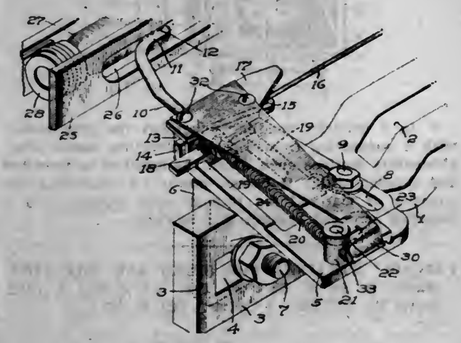
1. In combination with a burner having a supply pipe with a valve therein, a thermostat placed relatively to the burner and moving consequent upon the cold or heated condition of the burner, a releasable catch means placed to be tripped by said thermostat when cold, and a weight normally held elevated by said catch until tripped, and having initially slidable connection with said valve whereby to enable the weight to acquire momentum to operate the valve, said weight having means associated therewith for substantially causing the valve to move with the weight at an advanced stage of the movement of the weight.

1,454,342. RESILIENT WHEEL. WILLIAM H. SMITH, Bridgeport, Conn. Filed Jan. 26, 1922, Serial No. 531,960. Renewed Oct. 7, 1922. Serial No. 593,122. 5 Claims. (Cl. 152—8.)



1. In a resilient wheel, a rim adapted to be fastened upon a felly, a tread rim spaced from and surrounding said first named rim, a series of spring elements interposed between the rims and normally maintaining the same in concentric relation, said spring elements each including a pair of concentric radially arranged helical springs, a plurality of spacing blocks arranged upon the outer surface of the inner rim, said spacing blocks being provided with opposite semi-cylindrical cutouts in the ends thereof forming substantially cylindrical pockets which receive the inner ends of said spring elements, annular guide flanges closing the space between said rims and having their outer margins slidably engaging the side edges of the tread rim, means engaging the inner rim and carried by said blocks for preventing circumferential creeping of the blocks, and removable means for rigidly fastening said annular guide flanges against the side edges of the inner rim and said spacing blocks.

1,454,343. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 25, 1922. Serial No. 556,415. 10 Claims. (Cl. 139—85.)



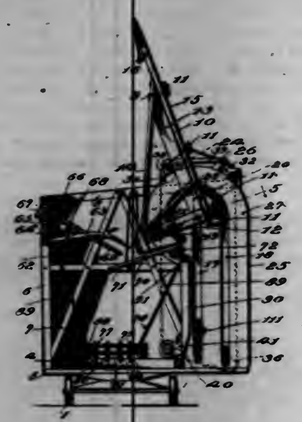
1. In a feeler mechanism for looms, the combination of a feeler mounted for movement toward and from the front of the loom and also in a direction longitudinally of the shuttle and normally held from the latter movement by the filling on a detecting beat until substantial exhaustion thereof, a feeler setting device for setting the feeler into holding engagement with the filling to prevent movement of the feeler longitudinally of the shuttle when a working supply of filling is in the shuttle on a detecting beat and then releasing the feeler for frontward movement, and means for effecting replenishment of filling when the feeler moves longitudinally of the shuttle.

1,454,344. SOLIDIFYING MOLTEN SULPHUR. ROBERT HOLDEN STEWART, Vancouver, British Columbia, Canada, assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed May 27, 1920. Serial No. 384,607. 7 Claims. (Cl. 18—58.)



1. The improvement in the production of sulphur by underground fusion with the discharge of molten sulphur at the surface of the ground, which comprises continuously forming the sulphur while still in a molten state into a plurality of relatively small thin cakes, moving said cakes in a substantially continuous manner from the point of their formation to a discharge point, and allowing the cakes to at least partially solidify during said movement so as to permit their continuous discharge at said discharge point in substantially solid form.

1,454,345. MATERIAL HANDLING APPARATUS AND CONVEYER. JOHN A. STOBIE, Malta Bend, Mo. Filed Apr. 20, 1921. Serial No. 463,095. 8 Claims. (Cl. 214—91.)



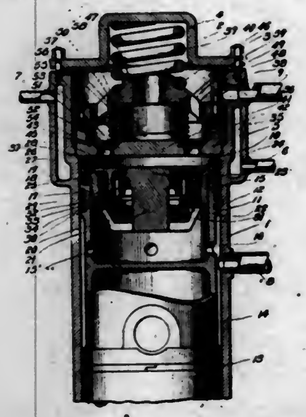
1. In a material handling apparatus the combination with a supporting frame of load elevating means, complementary sections upon which the material is deposited and through which it passes, means for regulating the quantity of material fed through said sections, and a conveyer arranged beneath said sections.

1,454,346. STRAINER FOR SINKS AND THE LIKE. HENRY R. STOLL, El Paso, Tex. Filed July 1, 1922. Serial No. 572,204. 3 Claims. (Cl. 4—35.)



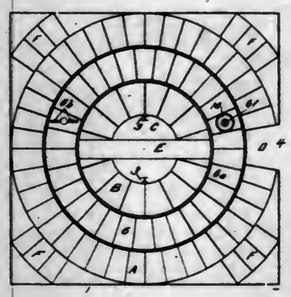
1. In a device of the class described, a body, a strainer arranged within the body and comprising a perforated bowl, an arcuate blade supported for oscillation within the bowl to be moved over the inner surface of the bowl, and a cross bar extending substantially chordal to the blade and constituting means whereby oscillatory motion may be imparted to the said blade.

1,454,347. VALVE FOR COMPRESSORS. MARION W. STOMS, Kansas City, Mo., assignor of one-half to Leigh W. Morris, Kansas City, Mo. Filed Oct. 17, 1921. Serial No. 508,145. 7 Claims. (Cl. 230—34.)



1. In combination with a valve cage comprising a ring having a floor portion with an annular groove provided with oppositely inclined edges to form valve seats, and having openings through the floor of the groove, a complementary member carried by the ring and comprising a valve guide, a spring pressed valve reciprocally guided by the complementary member, the valve being capable of bodily moving off the valve seats to permit air to pass both edges thereof and a guiding sleeve integral with the valve having a sliding contact with the complementary member.

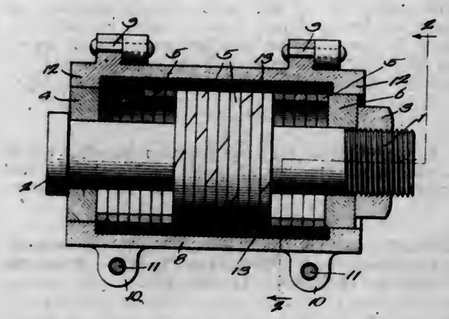
1,454,348. AUTOMOBILE GARAGE. RUPERT SWINNERTON, Minneapolis, Minn. Filed Mar. 31, 1920. Serial No. 370,121. 10 Claims. (Cl. 104—44.)



1. A vehicle parking and storage floor embodying an annular rotary vehicle distributing and collecting area, a surrounding adjacent annular floor area and a central floor area, the arrangement being such that vehicles may be distributed directly from said rotary area to storage position on the adjacent floor areas.

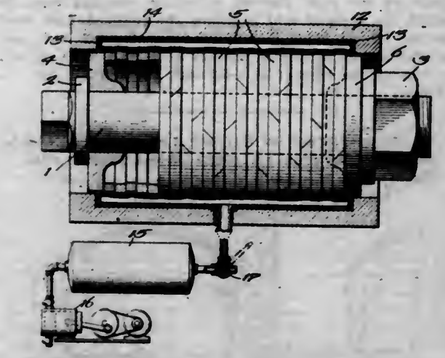
1,454,349. ASSEMBLING TOOL. CHARLES N. TEETOR, Hagerstown, Ind. Filed Nov. 3, 1921. Serial No. 512,497. 3 Claims. (Cl. 29—89.)

1. The combination with a tubular shell divided lengthwise into sections, said shell having an inner substantially cylindrical lining of resilient cushioning material and being formed with an annular shoulder at each end projecting beyond and co-axil with said lining; of a circular plate at each end of the shell and surrounded by and having the diameter of the adjacent annular shoulder; clamping means for closing the sections of said



shell upon said end plates; and means for clamping said end plates toward each other to hold contents of the shell when the shell sections are unclamped.

1,454,350. TOOL FOR COMPRESSING PISTON RINGS. RALPH R. TEETOR, Hagerstown, Ind. Filed Mar. 8, 1922. Serial No. 541,946. 6 Claims. (Cl. 29—89.)



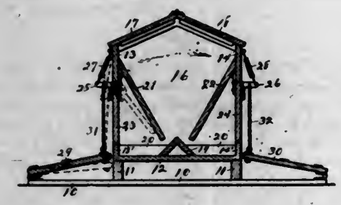
1. In a tool for exerting closing pressure upon piston rings, the combination with a mounting for piston rings which is inclusive of mechanism for clamping the rings in assembly; and pressure exerting means having pressure exerting parts that are individually movable in the compressing operation and are adapted to be individual to the rings undergoing compression, these pressure exerting parts acting inwardly upon the rings respectively individual thereto and substantially throughout their circumferences.

1,454,351. METHOD OF AND FLUX FOR REFINING BRASS. HENRY THOMAS, Cleveland, Ohio. Filed Oct. 28, 1920. Serial No. 420,227. 2 Claims. (Cl. 75—1.)

1. In a method of refining brass scrap, the steps which consist in fusing such scrap with a flux consisting of two parts of glass, one part of borax and one part of fluorspar.

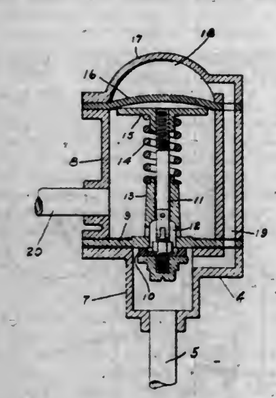
1,454,352. AUTOMATIC FEEDER. NELS F. THOMPSON, Fort Dodge, Iowa. Filed May 6, 1922. Serial No. 559,107. 1 Claim. (Cl. 119—55.)

An automatic feeder comprising a trough, a housing surmounting said trough, a door hinged on a horizontal axis in one wall of said housing and adapted to open inwardly, said trough and door being formed with overlapping beveled margins whereby movement of the door in one direction is limited, brackets mounted on the door



adjacent the hinged margin thereof, springs connecting said brackets and housing, a hinged platform at one side of said housing hangers flexibly connected to said platform at one end and hooks formed on said hangers and engaging said brackets at the opposite end.

1,454,353. PRESSURE RELIEF VALVE. HOMER A. THRUSH, Peru, Ind. Filed July 9, 1920. Serial No. 394,957. 5 Claims. (Cl. 137—53.)

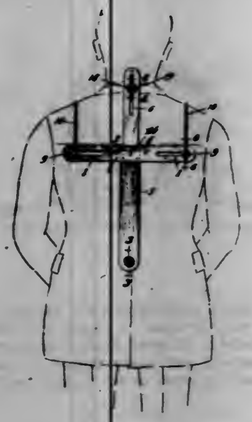


1. A relief valve for heating systems comprising a housing, a hollow casing attached to said housing, a partition between said casing and housing having a port therethrough, a valve for normally closing said port, a flexible stem attached to said valve a diaphragm adapted to direct pressure against the upper end of said stem and unseat said valve when pressure is directed there against from the heating system, a by-pass extending from said housing to a point above said diaphragm, said by-pass being formed in the walls of said housing and casing and through said partition, and means for determining the degree of pressure required for unseating said valve.

1,454,354. MEASURING DEVICE. ROBERT H. VISGER, Chicago, Ill., assignor of three-fourths to Oscar H. Wallen, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 539,684. 4 Claims. (Cl. 33—7.)

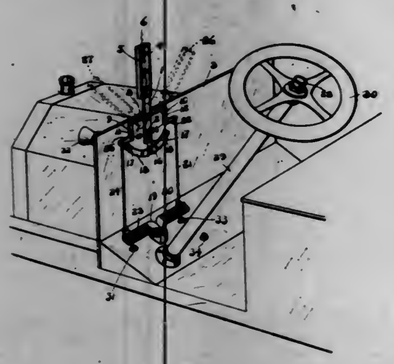
3. A measuring device comprising an elongated body portion, a cross arm fixedly secured to the body portion at a point substantially intermediate the ends thereof,

leveling means carried by the cross arm, vertically adjustable shoulder engaging arms carried by the cross



arm, said shoulder engaging arm adapted to be adjusted longitudinally of the cross arm, and measuring means carried by the body portion adjacent to the ends thereof.

1,454,355. DIRECTION INDICATOR. RICHARD F. A. VON BERNEWITZ, Cincinnati, Ohio. Filed Jan. 28, 1920. Serial No. 354,564. 1 Claim. (Cl. 116—51.)



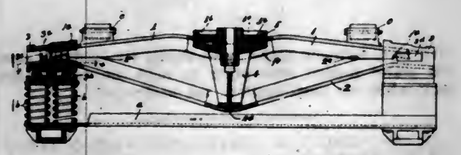
A direction indicator for automobiles comprising an illuminated arm pivotally mounted and adjacent to its lower end for movement transversely of the vehicle, a sector located beneath the pivot and having arm-locating notches therein, a spring extension of the arm adapted to engage the notches of the sector when the arm is swung, a bell crank on each side of the arm having pivots aligned with the pivot of the arm with one branch of each bell crank extending upwardly, a link extending between the upwardly extending branches and connected with the arm above its pivot, the remaining branch of each bell crank extending away from the arm, a rod connected with the outwardly extending branch of each bell crank and depending therefrom and a foot pedal located beneath the arm, pivotally mounted between its ends, and connected at each end to one of the rods.

1,454,356. PROPELLER. EDWIN L. WALKER, Onaway, Mich. Filed Feb. 13, 1922. Serial No. 536,224. 10 Claims. (Cl. 170—161.)



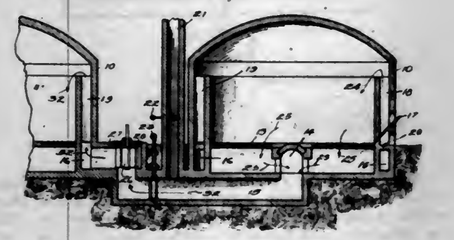
1. A propeller of the class described including a body portion and a plurality of blades carried thereby, said blades being flexible both longitudinally and transversely.

1,454,357. TRUCK BOLSTER. EDWARD C. WASHBURN, Englewood, N. J. Filed June 24, 1921. Serial No. 480,156. 19 Claims. (Cl. 105—186.)



1. A bolster comprising compression and tension channel members having their flanges in superposed engagement at the ends thereof, a hollow coupling head in which the ends of said members are disposed, said head having spaced holes through the top thereof, and cast metal columns extending through said head from the top to the bottom thereof and through the holes in the top thereof.

1,454,358. SYSTEM OF KILNS. LEROY WEEKS, Nevada, Iowa. Filed June 12, 1922. Serial No. 567,608. 1 Claim. (Cl. 25—135.)



A battery of kilns each provided with heating chambers and passageways arranged between the heating chambers and connected together by a subterranean conduit, each of said conduits having an opening in the top wall thereof, a fan element arranged to be selectively and removably received in any one of the conduits between any pair of kilns, so that heated air from one kiln may be drawn into the next adjacent kiln, a bearing member for said fan element arranged to be seated in any of said openings, and when the kiln is at a predetermined heat the fan element and bearing member may be removed for the purposes stated.

1,454,359. TERMINAL FOR ELECTRICAL APPLIANCES. CARL HENRIK WERENSKIOLD, Brooklyn, N. Y. Filed Nov. 4, 1919. Serial No. 335,749. 2 Claims. (Cl. 173—259.)

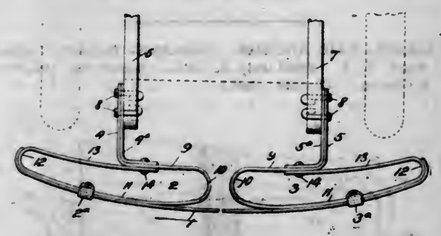
1. A binding post comprising a screw threaded pillar provided at a point between its ends with a transverse

wire receiving opening, a base member disposed on the pillar between the opening thereof and the end remote from the head and having oppositely disposed guides adapted for receiving a conducting wire, a nut screwed on the pillar at the opposite side of the opening from the base, the screw threaded opening of the nut terminating in an enlarged circular recess in the face of the nut adjacent to the base, the recessed portion of the nut being of a length substantially equal to the distance



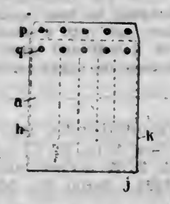
between the opening and the base and having its inner surface spaced from the pillar by a distance considerably greater than the diameter of the opening, whereby the nut on being turned in one direction is adapted to form bends in portions of a wire extending through the opening of the pillar and through the guides and operates to clamp the wire between the lower rim of the nut and the base and between the inner edge of the recess of the nut and the lower edges of the opening.

1,454,360. AUTOMOBILE BUMPER. FREDERICK A. WEENIG, Brooklyn, N. Y. Filed July 16, 1921. Serial No. 485,358. 6 Claims. (Cl. 293—55.)



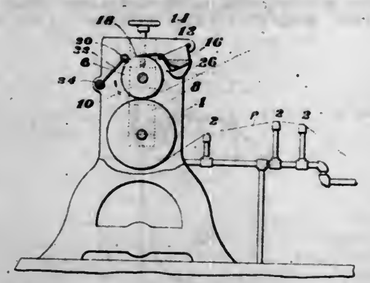
4. An automobile bumper embodying an impact bar extending transversely across the front of the machine and supporting members for opposite ends of said bar including a pair of springs substantially elliptical in conformation fastened to said bumper bar, each spring being composed of a single strip of spring metal and having two oppositely disposed loops and a terminal leg abutting against its starting leg, and a slot and pin connection between said abutting legs.

1,454,361. ENVELOPE AND THE LIKE. ALFRED JOHN GRAHAM WESTBURY, London, and HERBERT HISCOCK, Coulsden, England. Filed Aug. 26, 1920. Serial No. 406,228. 2 Claims. (Cl. 229—73.)



1. An envelope composed of flexible material so as to be readily turned inside out and comprising a body portion closed along three sides, an address being shown on the exterior of one side and a further address being placed on the reverse of the envelope, edge portions adjacent the opening of the envelope having perforations extending along the same at the back and front sides of the envelope, a flap extending beyond the body portion of said envelope and furnished with perforations therethrough, and flexible closing means adapted to be threaded through the perforations in the flap, and the edge portions of the envelope to securely maintain the envelope in closed position.

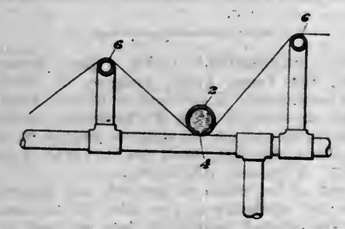
1,454,362. PAPER-TREATING MACHINE. LESTER P. WINCHENBAUGH, Hyde Park, and LAWRENCE GENTILE, Melrose, Mass., assignors to Lester P. Winchenbaugh Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 8, 1919. Serial No. 316,233. 11 Claims. (Cl. 91—38.)



8. A machine for applying coloring liquid to paper having, in combination, a pair of embossing rolls between which the paper is passed arranged to emboss the paper as it is passed between the rolls and means for applying coloring liquid to one of the rolls in excess of that required to form a surface film on the paper so that the coloring liquid may penetrate the paper.

9. A machine for applying coloring liquid to paper having, in combination, an embossing roll, means controlled by capillary action for depositing coloring liquid upon the elevations on the embossing roll, and means for causing the paper to contact with the roll so that the paper is embossed and the coloring liquid is applied thereto by the roll.

1,454,363. PROCESS OF APPLYING COLORING LIQUID TO PAPER. LESTER P. WINCHENBAUGH, Hyde Park, and LAWRENCE GENTILE, Melrose, Mass., assignors to Lester P. Winchenbaugh Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 8, 1919. Serial No. 316,234. 16 Claims. (Cl. 91—68.)



5. The process of making colored paper which comprises applying a solution of a dye in a volatile organic solvent of low viscosity containing a predetermined quantity of water to regulate the penetration thereof, to the paper in quantity sufficient to cause the same to penetrate to the paper.

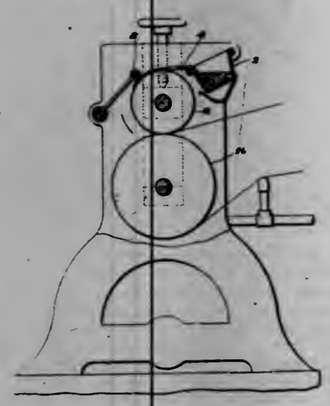
6. The process of making colored paper which comprises applying successively to finished paper in a dry

condition transparent coloring liquids of different colors so that the colors are superposed at certain points.

8. The process of coloring paper which comprises applying to finished paper in a dry condition a solution of a dye in a volatile organic solvent of low viscosity.

13. The process of making colored paper which comprises applying to the paper in a dry condition a quantity of a penetrative dry solution in excess of that required to form a surface film so that the solution penetrates the substance of the paper.

1,454,364. PROCESS OF APPLYING COLORING LIQUID TO PAPER. LESTER P. WINCHENBAUGH, Hyde Park, and LAWRENCE GENTILE, Melrose, Mass., assignors to Lester P. Winchenbaugh Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 8, 1919. Serial No. 316,235. 9 Claims. (Cl. 91—67.9.)



4. The process of making colored paper which comprises applying continuously to paper a penetrative solution of a dye in quantity regulated by capillary action and sufficient to cause the same to penetrate the paper and spread from the point of application.

5. The process of making ornamental paper which comprises applying a highly penetrative coloring liquid to the paper and embossing the paper while it is wet with the coloring liquid.

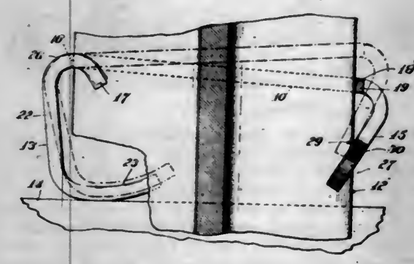
8. The process of making a colored paper which comprises applying to paper a solution of a dye in a volatile organic solvent of low viscosity in quantity regulated by capillary action and sufficient to cause the same to penetrate the paper and to spread from the point of application.

1,454,365. REVERSIBLE CUFF. SARA HUMPHREYS WINGO, San Diego, Calif., assignor, by direct and mesne assignments, of one-sixth to William Reife Humphreys, one-sixth to John K. Taubman, one-sixth to Mamie C. Wilson, and one-sixth to Stephen N. Wilson, all of Lexington, Mo. Filed Oct. 1, 1921. Serial No. 504,685. 6 Claims. (Cl. 2—79.)

1. A cuff of the character specified, and comprising a body portion consisting of two plies of the same size and pattern stitched together at their ends and at their lower longitudinal edges, and a third ply of less depth united at its ends and lower longitudinal edge to the outer face of one of said first named plies, said first named plies having aligned and connecting button holes adjacent their ends in their upper and lower portions, the third ply also having button holes adjacent its two ends so positioned as to register or aline with the button holes of the first named two plies, the upper longitudinal edge of the third ply free from the underlying or subjacent ply of the first named pair from end to end, whereby a pocket is formed adapted to be turned and overlying the other ply of the first named pair, the upper longitudinal edges of the first named plies adapted to be stitched to the lower end of a shirt sleeve.



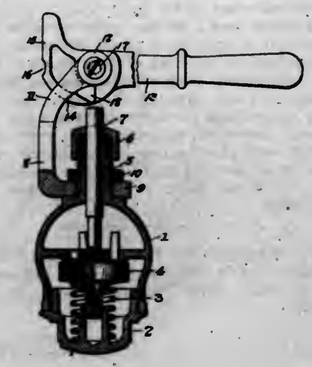
1,454,366. RAIL ANCHOR. CHARLES F. YARDLEY, Larchmont, N. Y. Filed July 8, 1921. Serial No. 483,179. 9 Claims. (Cl. 238—330.)



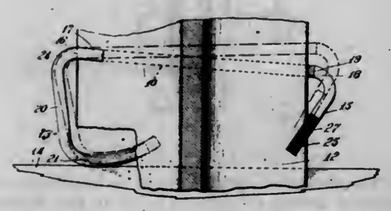
1. A one-piece rail anchor comprising a rail base embracing member formed at one end with a jaw for engaging one edge of a rail base, and with a tie-abutting portion, comprising a substantially straight post portion which converges with the edge of the rail base in a direction toward a tie and terminates in an angularly disposed flange adapted to bear against said tie, and formed at the other end with a shoulder for engaging the other edge of a rail and with a spring tongue adapted to bear against the upper surface of said base.

1,454,367. VALVE-OPERATING MECHANISM. FARNHAM YARDLEY, New York, N. Y., assignor to Jenkins Bros., New York, N. Y., a Corporation of New Jersey. Filed Oct. 8, 1921. Serial No. 506,518. 3 Claims. (Cl. 251—132.)

1. In a valve, a valve casing having a neck portion, a valve operating mechanism comprising a bracket arm having a perforated foot to engage the neck of the valve casing and a curved and forked outer end having perforated ears overlying the foot a nut on the neck of the valve casing to engage and lock the foot of the bracket to the valve casing, and a hand lever pivoted in said ears having a lateral cam surface adapted to engage and depress the valve stem, and a flat end surfce to hold the valve stem in adjusted position.



1,454,368. RAIL ANCHOR. CHARLES F. YARDLEY, Larchmont, N. Y. Original application filed July 8, 1921, Serial No. 483,179. Divided and this application filed July 15, 1922. Serial No. 575,252. 8 Claims. (Cl. 238—330.)



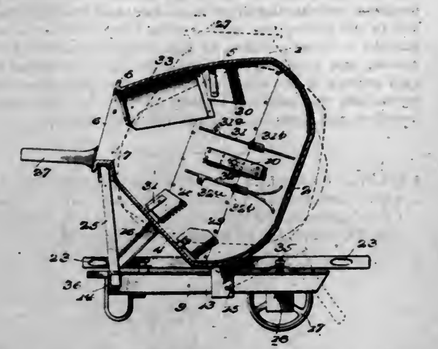
2. A rail anchor comprising a rail base engaging member formed at one end with a tie-abutment and terminating at the other end in a spring-tongue adapted to bear at its end only against the inclined upper surface of said rail base.

1,454,369. COMPOUND FOR THE SHARPENING OF TOOLS. AAGE NIELS JACK ZIRSEN, Montreal, Quebec, Canada. Filed Apr. 20, 1921. Serial No. 462,925. 4 Claims. (Cl. 76—24.)

1. A compound for use in sharpening files and the like which consists of fuming sulphuric acid, fuming nitric acid and pure nitric acid diluted with water.

1,454,370. CONCRETE MIXER. GEORGE WASHINGTON ADAMS, San Antonio, Tex. Filed July 6, 1922. Serial No. 573,082. 8 Claims. (Cl. 83—73.)

1. In a device of the character described, a receptacle mounted for oscillation about a fixed axis and being open at normally upper end thereof, and a mixing blade extending within the receptacle from an inner wall thereof and being inclined downwardly and inwardly in respect to the opening of the receptacle.

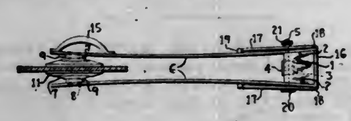


1,454,371. [WITHDRAWN.]

1,454,372. PHARMACEUTICAL PRODUCT. RUDOLF BERENDES and FRITZ LANGE, Elberfeld, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkussen, near Cologne-on-the-Rhine, Germany. Filed Dec. 2, 1921. Serial No. 519,553. 1 Claim. (Cl. 167—7.)

The herein described pharmaceutical product being chemically a compound of tannin with yeast, which is a greyish powder soluble with difficulty in water and to its greater part soluble in alkalies; and being a valuable remedy against chronical catarrhal affections of the intestines, substantially as described.

1,454,373. WINDOW-WASHING APPARATUS. JOHN C. G. BONNEY, Brooklyn, N. Y. Filed Apr. 5, 1921. Serial No. 458,822. 6 Claims. (Cl. 15—220.)



1. In a window cleaning device, a supporting block the opposite sides of which are inclined so as to converge toward each other, resilient arms secured at their inner end to the inclined sides of said block so that their free ends converge toward each other, pad-holders secured to the free ends of the arms, and means applied to the arms for increasing the tension of the arms so as to increase the pressure of the pads upon the window-panes.

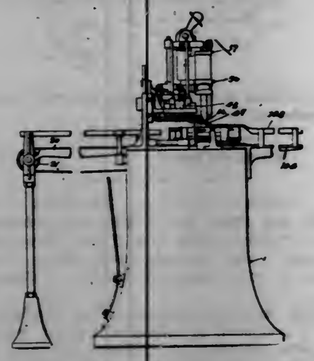
1,454,374. AWNING FIXTURE. JOHN A. COCHRAN, Pasadena, Calif., assignor to Andrew Swanfeldt, Los Angeles, Calif. Filed June 20, 1921. Serial No. 479,166. 3 Claims. (Cl. 156—44.)



2. An awning fixture comprising a bracket formed of two members having base portions in the same plane for

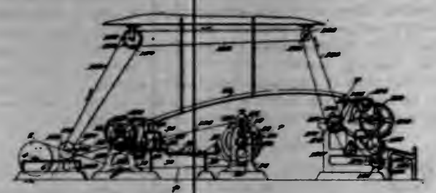
attachment to a wall or the like, and correspondingly right angularly formed vertical portions uniformly spaced apart, a pair of sheaves mounted between said vertical portions and having their axis disposed at right angles and in the same plane, said sheaves being held between the parallel vertical portions of said bracket members for receiving and confining cords adapted to be extended over said pulleys in the space of said bracket, and pins rigidly connecting the parallel vertical portions of said bracket members and forming bearings for said sheaves.

1,454,375. SANITARY CAN-CLOSING MACHINE. LAWRENCE DENNISON, Brookfield, Ill., assignor to General Can Company, Chicago, Ill. Filed June 7, 1919. Serial No. 302,491. 12 Claims. (Cl. 113—24.)



1. A can-closing machine comprising in combination a support, a rotatable seaming head, means for advancing said can to said seaming head, and means completely surrounding said can for holding said can during the seaming operation, said holding means being adjustable to accommodate cans of different diameter.

1,454,376. PAPER-TREATING MACHINE. LAWRENCE GENTILE, Melrose, Mass., assignor to Lester P. Winchenbaugh Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 2[illegible] 1918. Serial No. 251,384. 20 Claims. (Cl. 91—43.)



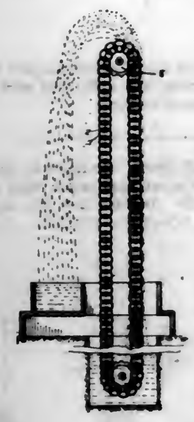
3. A machine for applying coloring liquid to paper, having, in combination, color holding devices comprising a color delivery device against which the paper runs in contact having one or more color delivery openings therein through which the coloring liquid is discharged on the paper at its point of contact with said device, and means for maintaining the coloring liquid at a substantially constant level in the color holding devices to maintain a substantially constant pressure of the coloring liquid on the paper at the color delivery openings.

5. A machine for applying coloring liquid to paper having, in combination, means for applying the coloring liquid to the paper in quantities sufficient to allow the liquid to impregnate the paper, and pressure devices engaging opposite sides of the paper for embossing the paper after it leaves the color delivery device.

8. A machine for applying coloring liquid to paper having, in combination, a color applying device, embossing rolls arranged to act on the paper after it leaves the color applying device, and a drying device arranged to dry the paper after it is acted upon by the embossing rolls.

9. A machine for applying coloring liquid to paper having, in combination, color applying devices, drawing and embossing rolls for drawing the paper past the color applying devices and for embossing the paper during its engagement therewith, a drying device for receiving the paper from said drawing rolls, drawing rolls arranged to draw the paper past the drying device, and cutting mechanism to which the paper is delivered from the latter drawing rolls.

1,454,377. PROCESS OF ELEVATING LIQUIDS. JOHN CAMERON GRANT, Barnes, London, England. Filed Dec. 8, 1920. Serial No. 429,207. 2 Claims. (Cl. 103—72.)

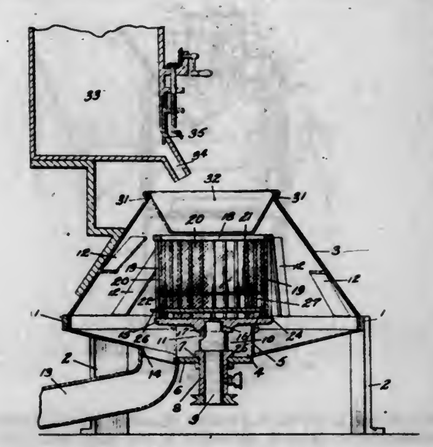


2. The method of lifting a liquid or semi-liquid which consists in passing through the liquid an open structure, guided and supported so that a column of liquid may be lifted unimpeded on both the inner and outer sides of the open structure, lifting the structure rectilinearly sufficiently fast to form a column of liquid on both the inner and outer sides of the open structure, changing the rectilinear motion to a circular motion without obstructing the column of liquid on either the inner or outer side of the open structure, operating the structure sufficiently rapidly to develop centrifugal forces great enough to separate the liquid on both sides of the open structure from the structure and to project it beyond the confines of the open structure.

1,454,378. MACHINE FOR HOMOGENEOUSLY MIXING AND STRAINING EGG MELANGE. IPHUS HARVEY HALL, Toronto, Ontario, Canada. Filed Feb. 3, 1923. Serial No. 616,805. 17 Claims. (Cl. 259—96.)

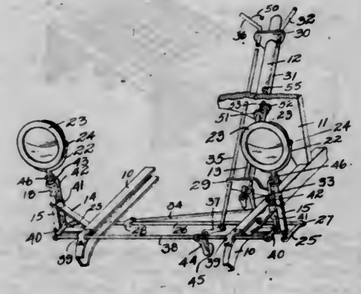
1. A machine for homogeneously mixing and straining egg melange comprising a stationary conical receptacle having a receiving opening in the upper portion thereof through which shelled eggs are dropped and a discharge opening in the bottom portion thereof, and means located within the receptacle for breaking the yolk skins of the shelled eggs

as each egg is dripped after passing through the receiving opening of the receptacle and for discharging the



broken yolks radially against the walls of the receptacle to commingle as they flow down the interior periphery of such receptacle to the discharge thereof.

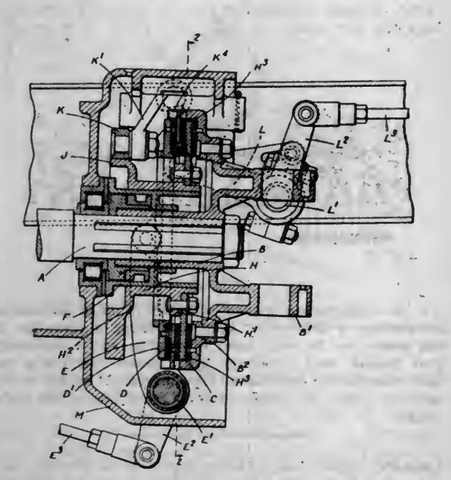
1,454,379. STEERABLE VEHICLE LIGHT. WILLIAM I. INGLEDUE, Melbourne, Iowa. Filed Mar. 3, 1922. Serial No. 540,791. 3 Claims. (Cl. 240—61.)



1. A steerable headlight mechanism for automobiles including headlights rotatably mounted on vertical axes, and tiltably mounted on horizontal axes, means for rotating the lights, and means for tilting the lights without interfering with the rotating means, said tilting means including supporting forks for the lights, said supporting forks having shanks, grooved collars slidably mounted thereon, links connecting said collars to the rear of the lights, whereby vertical sliding movement of the collars will impart tilting movement to the lights, and means controllable from the dash for imparting sliding movement to the collars.

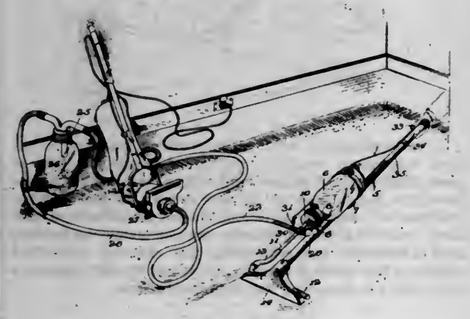
1,454,380. BRAKE FOR MOTOR ROAD VEHICLES. ARTHUR JOHN ROWLEDGE, Acton, England, assignor to D. Napier & Son Limited, London, England, a Company of Great Britain. Filed Oct. 18, 1921. Serial No. 508,465. 13 Claims. (Cl. 188—140.)

1. In brake actuating mechanism for a motor road vehicle the combination with a shaft through which the drive is transmitted from a source of power to the road wheels, a clutch member adapted to be rotated in either direction by this shaft, a second clutch member adapted to engage the first clutch member and mounted freely so that it can rotate in either direction, means for causing the clutch members to engage, a cam member rotatable



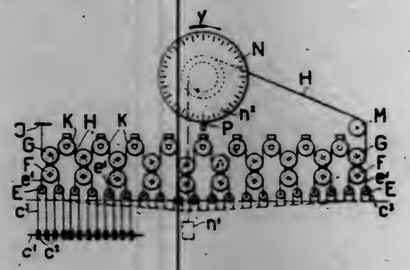
by the second clutch member and having two oppositely arranged operative parts, a lever which is acted on by the cam member and moved thereby when the cam member is rotated in either direction, and means actuated by this lever for applying the vehicle brakes as set forth.

1,454,381. CLEANING APPARATUS. JAMES M. STEPP, Huntington, W. Va. Filed Dec. 30, 1921. Serial No. 526,015. 1 Claim. (Cl. 15—155.)



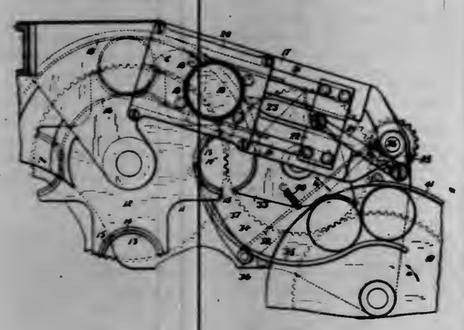
A cleaning apparatus for floor coverings comprising a pick-up head having a narrow elongated mouth, a handle for said head, a container for a liquid cleaning solution carried by said handle and having a discharge pipe, a spray pipe connected to said discharge pipe and carried by said head in spaced parallel relation to said narrow elongated mouth, the side of said mouth adjacent said spray pipe being spaced from the floor covering whereby the dirt and the liquid cleaning solution may readily enter the head.

1,454,382. ADDING MACHINE PARTICULARLY FOR LEATHER-MEASURING MACHINES. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,799. 2 Claims. (Cl. 33—124.)



2. In combinating with a plurality of band movement integrators, a differential gear comprising a plurality of sun gears, one for each band integrator, and a planetary gear means, said planetary gear means comprising an indicating needle controlled in its movement by the movement of said sun gears, and a scale means for said needle.

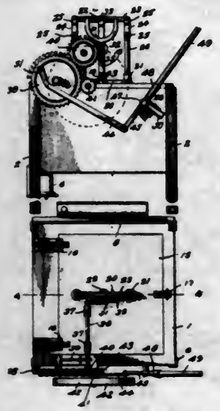
1,454,383. CAN-CAP FEED. HENRY L. GUENTHER, Los Angeles, Calif. Filed Dec. 21, 1921. Serial No. 523,824. 8 Claims. (Cl. 113—29.)



1. In combination with a can seaming machine, a cap feed comprising positively operating means for successively feeding filled cans to a machine, and means for delivering a cap to each of the cans carried by said positive feed means, said cap delivering means including continuously operating driving means, can cap actuating means, and mechanism for connecting the can cap actuating means to the driving means, and means directly operated by a can for actuating the said mechanism.

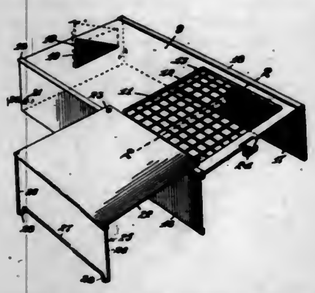
1,454,384. WASHING MACHINE. GEARY E. HAWK, Camden, N. J. Filed Apr. 26, 1919. Serial No. 292,824. 1 Claim. (Cl. 68—19.)

In a washing machine, a body, a cover hingedly secured at one edge to the body, clothes engaging members carried by the cover, a relatively large drive gear, a bearing for the gear carried by the body and disposed in alignment with the hinged edge of the cover, means for operating the gear, a drive shaft carried by the cover, means operatively connecting the drive shaft with the clothes engaging members, a relatively small pinion secured to the shaft, and meshing with the relatively large drive gear forwardly of the vertical diametric center



thereof and above the horizontal diametric center thereof, whereby upon opening movement of the cover, the pinion will rotate around said relatively large drive gear.

1,454,385. COMBINED STOVE AND GRILL. JOHN HIGHAM, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,747. 5 Claims. (Cl. 126—29.)

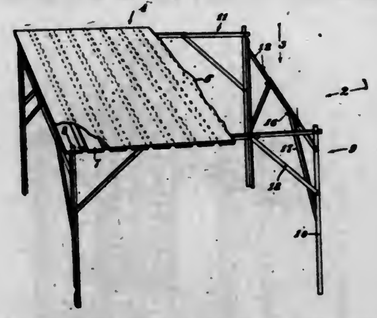


1. A combined foldable camp stove and grill comprising a top plate formed with a stove pipe opening and having a grill portion spaced from the stove pipe opening to provide an expanse of stove top surface between the grill and the stove pipe hole, a cover-shelf panel mounted to swing on the top plate and adapted to extend over the grill to cover same and to be swung to extend to one side of the stove to expose the grill and form a shelf, and a foldable leg member on the cover-shelf panel adapted to support the outer portion of the panel when it is in its extended position.

1,454,386. FOLDING TABLE. JOHN HIGHAM, Los Angeles, Calif. Filed Mar. 10, 1921. Serial No. 451,187. 2 Claims. (Cl. 45—116.)

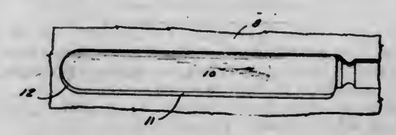
1. In a folding table, the combination of a foldable top and a foldable supporting frame; said frame comprising a plurality of vertical legs, longitudinal and transverse members pivotally secured to and joining said legs; said members each comprising a pair of crossed pivotally connected pieces whereby the members are adapted to be folded and when extended in alignment to have their portions overlapping beyond the point of their pivotal connection, and sway-braces pivoted to said legs, said pieces composing the transverse and longitudinal members as well as said sway-braces being provided with

openings all adapted to be brought into alignment; pins adapted to be inserted through said openings when



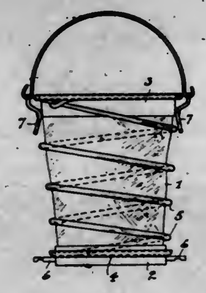
brought into alignment with one another, said pins serving to hold all parts in fixed position relative to one another.

1,454,387. PROCESS OF ALLOY KNIFE HARDENING OR TEMPERING. THOMAS B. LASHAR, Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1919. Serial No. 277,820. 5 Claims. (Cl. 76—104.)



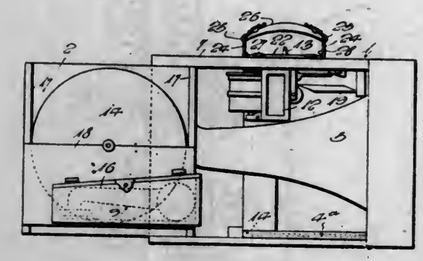
1. That process of shaping and hardening nickel silver alloy knife blades which consists in subjecting the alloy while at a natural temperature to a striking blow and confining the alloy in a cavity of a cross section substantially that desired for the finished blade.

1,454,388. FOLDING BUCKET OR THE LIKE. LARS WALDEMAR LAURÉN, Orebro, Sweden, assignor of one-half to Erik Emanuel Ericsson, Rosta, Orebro, Sweden. Filed Mar. 10, 1920. Serial No. 364,695. 2 Claims. (Cl. 150—49.)



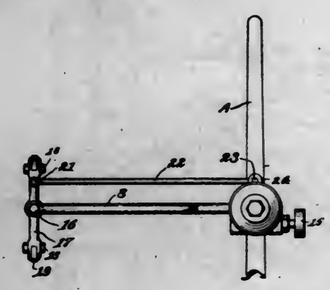
1. A folding bucket comprising a bottom, a top rim, a water-proof flexible body portion connected to the bottom and the rim, a coiled spring surrounding the body and having its respective ends bearing against the bottom and the top rim and normally holding the bucket extended, pins projecting from opposite points of the bottom, a bail and elements pivoted at opposite points exteriorly of the rim and having their upper ends shaped to accommodate the ends of the bail and their lower ends shaped to form hooks for engagement with the pins subsequent to the compressing of the spring whereby to hold the bucket in a folded position.

1,454,389. PORTABLE PHONOGRAPH. JOHN L. LIND, Siren, Wis. Filed Dec. 5, 1921. Serial No. 519,988. 4 Claims. (Cl. 274—2.)



1. A portable graphophone comprising a casing having an outwardly swinging door occupying the major portion of one of its vertical sides, a horn within the casing spaced inwardly from said door, and means for mounting a record table upon the inner side of said door when it is not in use, whereby to position said record table between said door and horn when the former is closed.

1,454,390. GLARE SHIELD. WILLIAM E. LORANGER, Los Alamitos, Calif. Filed July 5, 1921. Serial No. 482,316. 3 Claims. (Cl. 296—97.)

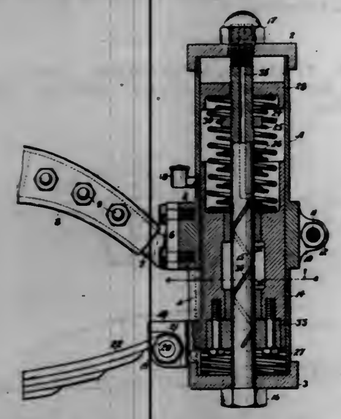


1. In a glare shield, the combination of a light screen, a bracket adapted to be secured to a support, a rod pivotally connected at one end to the screen and at its other end to the bracket, an arm pivotally connected at one end to the light screen and at its other end to the bracket and provided at said other end with a segmental gear, a worm shaft journaled in the bracket and having a worm in mesh with the gear, and means to turn the shaft.

1,454,391. SHOCK ABSORBER. ZELMERE P. LOYD, Coalinga, Calif., assignor to Loyd Manufacturing Co., Oakland, Calif., a Corporation of California. Filed Jan. 14, 1920. Serial No. 351,328. 8 Claims. (Cl. 267—29.)

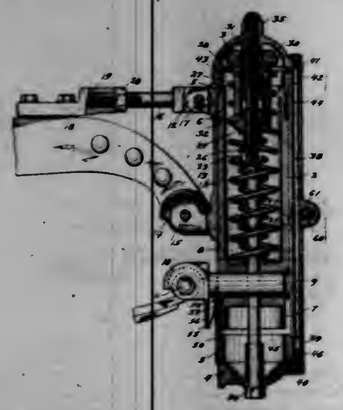
1. In a device of the character described, the combination with the main frame of a vehicle and the springs whereby the frame is supported, of a cylinder secured to the frame, a head member on each end of the cylinder, a piston in the cylinder, a spring in each end of the cylinder engaging the piston, a rod extending through the cylinder

and secured by the head members, means permitting turning movement of the rod, means actuated by the turning



movement of the rod for increasing or decreasing the tension of the springs within the cylinder, and a connection between the vehicle spring and the piston.

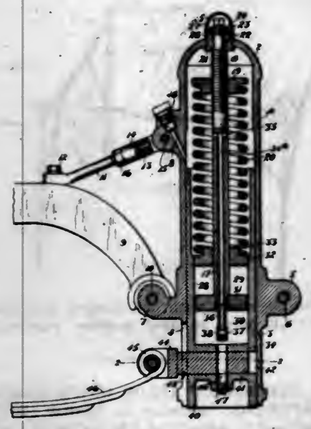
1,454,392. SHOCK ABSORBER. ZELMERE P. LOYD, Coalinga, Calif., assignor to Loyd Manufacturing Co., Oakland, Calif., a Corporation of California. Filed May 12, 1920. Serial No. 380,758. 25 Claims. (Cl. 267—23.)



1. A shock absorber comprising a cylinder, a piston reciprocally mounted therein, a spring interposed between one end of the cylinder and the piston adapted to absorb a normal load, pneumatic cushioning means for each end of the piston adapted to absorb maximum loads, a rod disposed in the cylinder independent of the piston, and means actuated by turning movement of said rod for increasing or decreasing the tension of the spring.

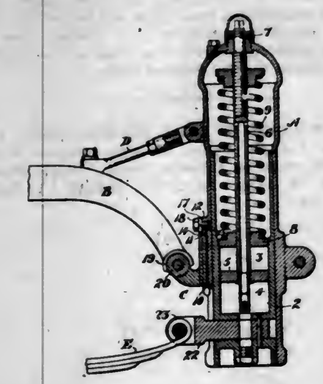
1,454,393. SHOCK ABSORBER. ZELMERE P. LOYD and HENRY W. LARSSON, Oakland, Calif., assignors to Loyd Mfg. Co., Oakland, Calif., a Corporation of California. Filed May 11, 1921. Serial No. 468,506. 10 Claims. (Cl. 267—60.)

1. A shock absorber comprising a main cylinder, an inverted piston reciprocally mounted therein, a closed cylinder chamber formed in the piston, an auxiliary piston mounted in said chamber, means for maintaining a fixed relation between said piston and the main cylinder, a



spring interposed between the main piston and the main cylinder, and means for adjusting the tension of said spring.

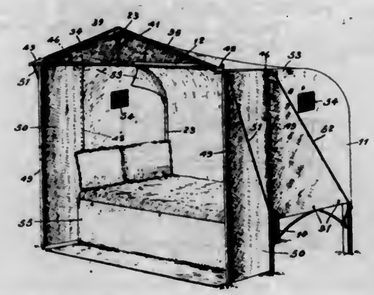
1,454,394. ADJUSTABLE ATTACHING BRACKET. ZELMERE P. LOYD and HENRY W. LARSSON, Oak'and, Calif., assignors to Loyd Mfg. Co., Oakland, Calif., a Corporation of California. Filed Dec. 7, 1921. Serial No. 520,507. 4 Claims. (Cl. 267—65.)



1. In a shock absorber of the character described a cylinder, a shouldered recess on one side of the cylinder, a plate turnably mounted with relation thereto, means for securing the plate to the shouldered recess and for locking the plate against turning movement, and a lug formed on said plate.

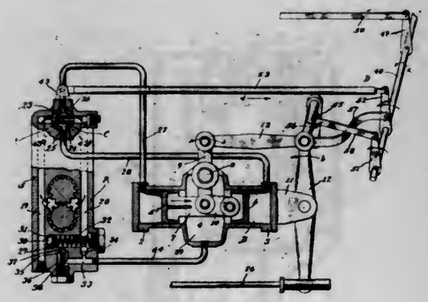
1,454,395. CANOPY FOR AUTOMOBILE BEDS. CHARLES D. MCDONALD, Los Angeles, Calif. Filed Jan. 5, 1922. Serial No. 527,249. 1 Claim. (Cl. 135—5.1.)

In combination with a canopy of the character described, of a truss support comprising gable members pivotally connected, a hook disposed on the inner end of one of said gable members, the inner end of the other of said gable members projecting beyond the pivot joint and overlapping said hook, a truss rope connecting the outer



ends of said gable members, means for adjusting the pitch of said truss support, and means for securing said truss support to said canopy.

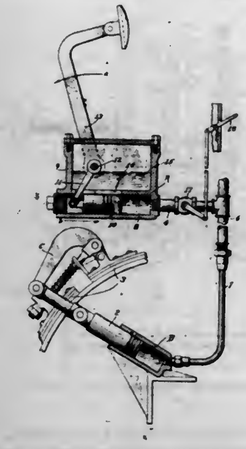
1,454,396. HYDRAULIC-RAM CONTROL. WILLIAM W. MACDONALD, San Francisco, Calif. Filed Sept. 7, 1920. Serial No. 408,533. 10 Claims. (Cl. 138—23.)



1. The combination with a hydraulic ram comprising a cylinder and a piston dividing the cylinder into two chambers, of a source of liquid supply, a pump having a suction and a discharge connection adapted to maintain the liquid in constant circulation, means for diverting the flow of the liquid to either cylinder chamber, said means also adapted to maintain a returned circulation through the pump, means preventing building up of pressure on the discharge side of the pump beyond a predetermined pressure, and means for maintaining a minimum predetermined pressure on the suction side of the pump.

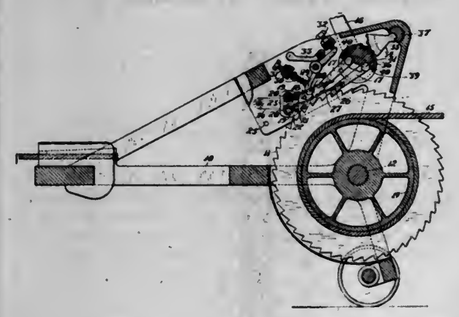
1,454,397. HYDRAULIC BRAKE. WILLIAM W. MACDONALD, San Francisco, Calif. Filed Nov. 19, 1920. Serial No. 425,061. 5 Claims. (Cl. 138—23.)

1. In a device of the character described a hydraulic actuating ram, said ram comprising a cylinder, a liquid containing reservoir, a slot formed in the upper side of the cylinder in communication with the reservoir, a piston in the cylinder adapted to cover and uncover the



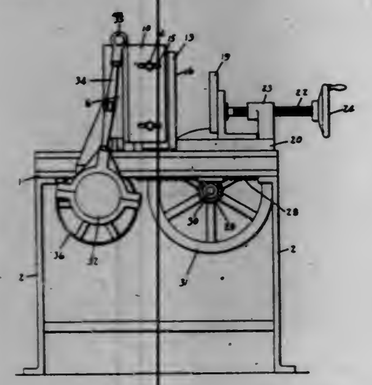
slot, and means projecting through the slot and engageable with the piston to impart a reciprocal movement thereto.

1,454,398. PAWL-AND-RATCHET POWER APPLIANCE. PHILIP MACKENZIE, San Francisco, Calif. Filed May 17, 1922. Serial No. 561,555. 5 Claims. (Cl. 74—54.)



1. In a pawl and ratchet power appliance, a frame, a ratchet wheel journaled thereon, a pawl lever mounted for rocking movement on the frame, a pawl pivoted to the pawl lever on either side of the axis thereof and cooperating with the teeth on the ratchet wheel, means for retaining the pawls yieldingly in engagement with the teeth of the ratchet wheel for driving the wheel forwardly and means for optionally causing alternate disengagement and reengagement of the pawls to permit the ratchet wheel to be reversed when under load, said last mentioned means comprising yielding means to exert an outward pressure on each of said pawls, co-acting cam surfaces between the two pawls to control the outward movement of the inner pawl, a cam surface on the outer pawl and a co-acting adjustable cam to co-operate therewith for the purpose of controlling the outward movement of the outer pawl.

1,454,399. TRIMMER FOR BATTERY SEPARATORS. JOHN E. NORRIS, Indianapolis, Ind., assignor to Indianapolis Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 1, 1921. Serial No. 488,972. 6 Claims. (Cl. 164—48.)



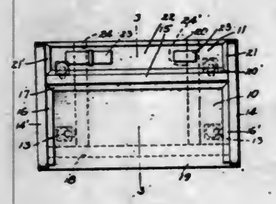
1. In a trimming device, means for securing together a plurality of separators, cutting elements for trimming the edges of the separators, means for advancing the separators towards the cutting elements, and means for imparting vertical movement to the cutting elements whereby the entire group of separators is brought into contact with the cutting elements at a single advancement of the separators, substantially as set forth.

1,454,400. PACKING FOR PUMPS. WALTER ALLEN O'BANNON, Tulsa, Okla. Filed Nov. 25, 1921. Serial No. 517,589. 3 Claims. (Cl. 103—158.)



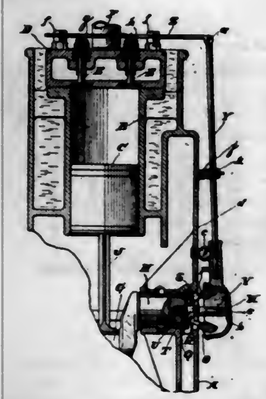
1. In a pump of the character described, a movable reciprocating barrel having its lower end closed, a stationary plunger having an upper end portion disposed within said barrel and forming a close running fit therewith and having a portion beneath said upper end portion in spaced relation with the inner periphery of the barrel, an expansible packing surrounding the last named portion of the plunger, said packing being adapted to draw liquid through orifices in the lower end of the barrel upon downward movement of said barrel, and said liquid being ejected from said orifices under pressure upon upward movement of barrel, and means below said packing adapted to utilize the liquid pressure for compressing said packing during the last named movement of said barrel.

1,454,401. SCRUBBING STOOL. WILLIAM F. O'NEILL, Albany, N. Y. Filed Aug. 19, 1919. Serial No. 318,438 2 Claims. (Cl. 155—167.)



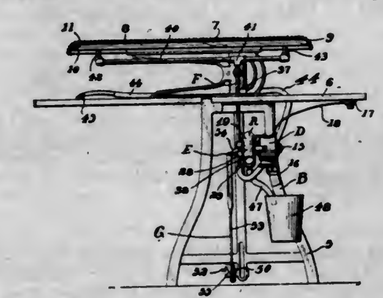
1. A scrubbing stool comprising a movable platform and a partition dividing said platform into a front space and rear space, said front space adapted to serve as a knee rest and said rear space adapted to serve as a support for the scrubbing materials, a frame work bordering said front space, a soft material held within said frame work to serve as a knee rest and a frame work bordering said rear space and a waterproof material held within said frame work.

1,454,402. CENTRIFUGAL UNLOADER FOR COMPRESSORS. FREDERICK W. PARSONS, Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 29, 1922. Serial No. 564,459. 3 Claims. (Cl. 230—24.)



3. In a compressor, the combination of a cylinder, piston and crank shaft, an inlet valve for the cylinder, centrifugal weights pivotally mounted on one end of the crank shaft, a slidable member actuated axially and outwardly from the crank shaft as the weights fly outwardly, a pivoted lever extending from a point near the inlet valve to a point opposite the weights, a shield on said lever extending over the weights and adapted to be engaged by said slidable member, means connected to the lever and bearing on the inlet valve for holding the inlet valve open on starting, said means acting to release the valve when the compressor has attained sufficient speed to cause the weights and slidable member to rock the said pivoted lever, and a spring adjustable along the length of the pivoted lever and adapted to be compressed as the pivoted lever is rocked.

1,454,403. VACUUM ATTACHMENT FOR CLOTHES-PRESSING MACHINES. GLENN PEACOCK, Bartlesville, Okla. Filed Apr. 11, 1921. Serial No. 460,277. 2 Claims. (Cl. 68—9.



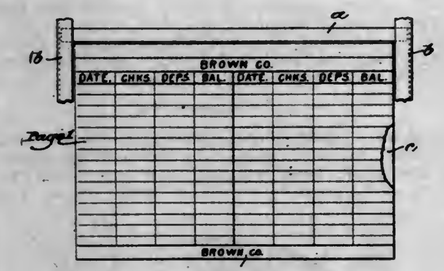
1. The combination with a pressing machine including a buck having a perforated press plate, a suction chamber arranged below the press plate, of a suction creating means including a fan casing, a suction fan wheel arranged in the casing, an electric motor for operating the fan wheel, a suction chamber communicating with the inlet of said fan casing, a three way valve forming a part of said suction chamber, oppositely disposed pipes communicating with the valve casing, a rotatable three way valve plug arranged in the casing, means connecting one of the pipes with the suction chamber of the buck, a crank arm connected to the valve plug, a lever pivotally mounted intermediate its ends, a foot pedal formed upon the lever, a rod connected with the lever and the crank arm, a condensation pipe carried by the fan casing, and a receptacle carried by the pressing machine for receiving said pipe.

1,454,404. UMBRELLA. HARRY F. POELL, Philadelphia, Pa. Filed July 2, 1919. Serial No. 308,207. 4 Claims. (Cl. 135—46.)



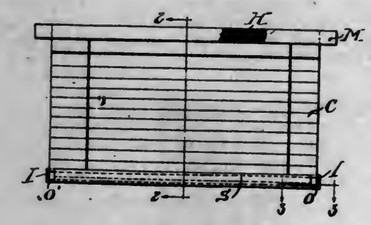
4. An umbrella including main ribs, brace ribs; a main rod having a tubular section and a rod section slidable relatively to each other and a recess adapted to receive a bolt, the rod section having a longitudinal groove and the tubular section having a rib extending into the groove, the rod section having a shoulder for abutment with the rib; means normally engaging the other end of the rib to hold it against slidable movement; a sleeve connected with the brace ribs and slidable on the main rod; a bolt adapted to engage with the recess in the main rod; a spring, for supporting the bolt, attached to the sleeve; a trigger pivoted to the bolt, fulcrumed on the sleeve and adapted to withdraw the bolt, the bolt being operative, when the sleeve is moved downward to actuate the rib holding means and permit the rod section and the tubular section to telescope, substantially as described.

1,454,405. RECORD DEVICE. JAMES H. RAND, North Tonawanda, N. Y. Filed May 2, 1921. Serial No. 466,134. 8 Claims. (Cl. 129—16.7.)



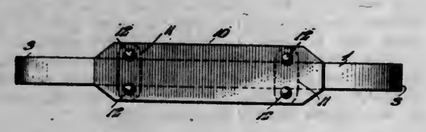
1. In combination, a record sheet transversely folded to form a plurality of sections hinged together, each section comprising two pages of a series of pages included in the entire sheet, and a holder adapted removably to support the folded record sheet in different positions which will respectively display successive pages in front, the parts being so organized and arranged that in each successive position of the sheet in the holder all pages of the series preceding the page displayed at the front may be exposed to view by swinging the sections relatively to the holder without removing the record sheet from the holder.

1,454,406. INDEX DEVICE. JAMES H. RAND, North Tonawanda, N. Y. Filed Feb. 11, 1922. Serial No. 535,717. 8 Claims. (Cl. 129—16.7.)



1. An index device comprising a card, a sheath extending over the margin of the card, the card being slidable in the sheath longitudinally of the margin, and a stop at the end of said margin to prevent accidental displacement of the card from the sheath.

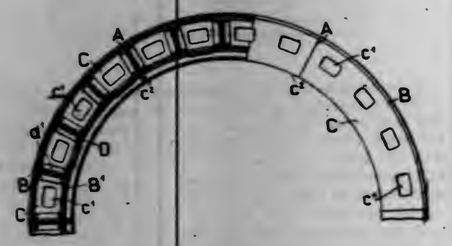
1,454,407. BUMPER OR FENDER FOR AUTOS OR OTHER VEHICLES. WILLIAM H. RAPEPORT, Philadelphia, Pa. Filed Nov. 4, 1922. Serial No. 598,977. 1 Claim. (Cl. 293—55.)



A bumper or fender composed of front and rear members of resilient material, said members each being a single continuity, a rear bar of rigid material connected firmly with the inner terminals of said rear members, supporting devices for the bumper mounted on said rigid rear bar, a reinforcing and impact plate on the front member,

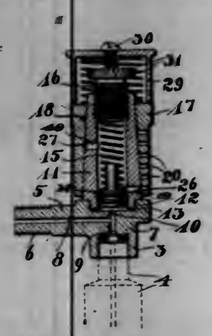
said plate having its upper and lower portions projecting respectively above and below said front member, straps on the latter, said straps having their upper and lower portions projecting respectively above and below said front member, and securing bolts passing through said upper and lower portions of said plate, and of said reinforcing and guard plate, said bolts having their shanks extending across the upper and lower edges of said front member and being seated directly on said edges.

1,454,408. TUBBING FOR SHAFTS. FRITZ REICHARD, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 444,846. 4 Claims. (Cl. 61—41.)



1. A shaft tubbing formed in rings, each ring comprising a multiplicity of box-shaped girders, each girder comprising spaced external and internal boom walls and web walls connecting said boom walls at the top and bottom and coherent therewith along their whole length without interruptions.

1,454,409. PRESSURE-CONTROLLING DEVICE. HERMAN F. RICHTER, Los Angeles, Calif. Filed Mar. 1, 1921. Serial No. 448,888. 5 Claims. (Cl. 137—63.)



1. In a safety valve, a body, a cylinder on the body having discharge apertures at different points, a movable member in the cylinder disposed so as to reach the different apertures in the cylinder under different pressures, and a sleeve movable over the outside of the cylinder having an aperture to be disposed in alignment with any one of the apertures in the cylinder permitting discharge only at this point when the movable member in the cylinder reaches this point.

1,454,410. ARTIFICIAL COAL. LIGE ROBISON, Four States, W. Va. Filed Aug. 30, 1921. Serial No. 496,962. 3 Claims. (Cl. 44—15.)

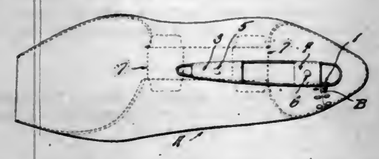
1. A substitute fuel comprising pulverized paper, finely crushed coal, soda, wood alcohol, and coal oil.

1,454,411. MACHINE FOR REMOVING THE CORES AND STONES FROM FRUIT. FRANK ROBBINS, Clifton Hill, Victoria, Australia, assignor to George Edward Andrew, Richmond, Australia. Filed May 19, 1922. Serial No. 562,052. 4 Claims. (Cl. 146—6.)



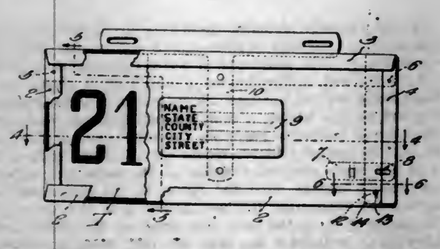
1. In a machine for removing cores and stones from fruit, devices for obtaining a central or approximately central cut in the fruit comprising a conveyor, fruit engaging means carried by the conveyor, adjustable cup members, stationary knives, and an auxiliary conveyor carrying spikes which engage the fruit and deliver it at a point where it is engaged by the said adjustable cup members to which there is imparted a rotary and lateral sliding movement to receive the fruit and by which the fruit is conveyed between the said stationary knives to make the central or approximately central cut therein.

1,454,412. SHOE FILLER. ROBERT A. ROBLEE, St. Louis, Mo., assignor to Brown Shoe Company, Incorporated, St. Louis, Mo., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 444,677. 1 Claim. (Cl. 12—128.)



A shoe filler formed from a sheet of fibrous material having a cut-away portion at the front thereof and a cut-out portion at the rear thereof, means comprising a strip of material overlapping the abutting free ends of said sheet at the rear of said filler whereby said free ends are secured together, pairs of connecting members formed integral with said shoe filler at the upper portion thereof, the members of each pair of connecting members overlapping each other and being secured together to strengthen said upper portion of said shoe filler, and bracing members whereby the lower portion of said shoe filler is given additional rigidity.

1,454,413. LICENSE-TAG HOLDER. RAYMOND ROSE, New Brighton, Pa. Filed June 29, 1922. Serial No. 571,748. 2 Claims. (Cl. 40—125.)



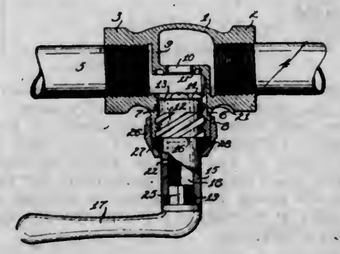
1. An automobile license tag holder comprising a backing plate having one end and one longitudinal edge bent to provide a pair of flanges adapted to engage two edges

of a tag, and a retaining rim for connection with the remaining end and longitudinal edge of the plate, said rim comprising relatively long and short channel shaped sections, said sections being pivotally connected together at one end, the opposite end of the long section being pivotally connected to the plate at one corner of the latter, and locking means for connecting the free end of the short section with the plate for holding the tag in position against the latter.

1,454,414. PROGRESSIVE NITROCELLULOSE POWDER CONTAINING NITROGUANIDINE. JOHN M. SKILLING, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 15, 1922. Serial No. 568,597. 10 Claims. (Cl. 52—13.)

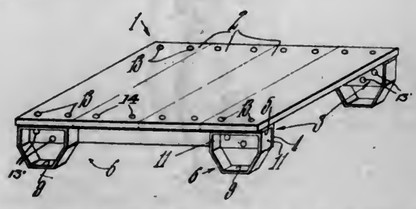
1. As a new propellant, a nitrocellulose powder containing nitroguanidine and having its surfaces impregnated with a deterrent material.

1,454,415. STOP AND WASTE VALVE. WILLIAM H. SMITH, East Cleveland, Ohio. Filed Apr. 23, 1920. Serial No. 375,937. 3 Claims. (Cl. 251—23.)



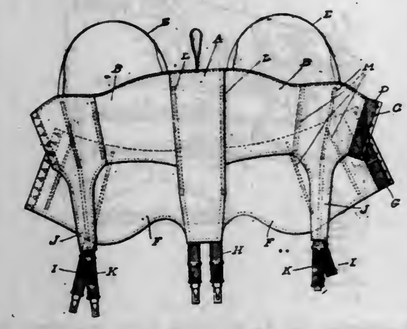
1. A valve comprising a casing, a partition wall in said casing having an aperture therein, a member movable toward and from said aperture to open and close the same, a reduced projection on said member extending exteriorly of said casing, a socket formed in said projection, an aperture adjacent the outer end of said socket communicating with the atmosphere, a second aperture adjacent the inner end of said socket communicating with a by-pass about said member when the valve is in the closed position and a packing ring clamped around said projection, both said apertures being exterior of said packing ring when said valve is in the open position.

1,454,416. PLATFORM. EDMUND TOMLINSON and RICHARD T. GIFFORD, Springfield, Mass., assignors to Edward N. White, J. Lewis Wyckoff, and James M. Eaton, trustees, all of Holyoke, Mass. Filed Aug. 17, 1921. Serial No. 493,052. 3 Claims. (Cl. 248—41.)



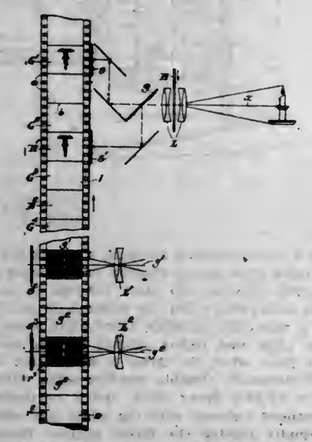
1. A transferable platform comprising in combination, a load support, longitudinal tie members adjacent each lateral edge of said load support each of which is provided with a horizontal portion secured to said load support and a depending flange portion, U shaped supporting legs for said platform mounted adjacent the tie members each of which has a horizontal foot portion and side portions connected at their upper ends by an integral top portion, a vertical web portion connecting the top and side portions of said leg adjacent the upper end thereof, and means for rigidly securing each leg to the adjacent tie member and load support.

1,454,417. WOMAN'S FITTED UNDERGARMENT. DE VER H. WARNER, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 29, 1921. Serial No. 511,807. 5 Claims. (Cl. 2—73.)



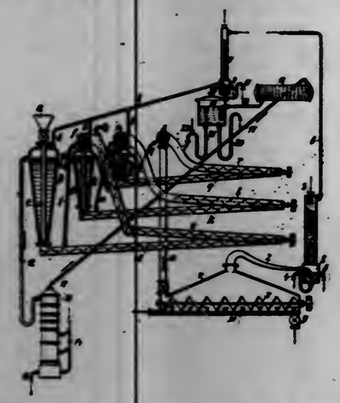
4. A woman's fitted undergarment including a front panel extending from the bust over the abdomen, bust supporting members secured to the side edges of the upper portion of said panel and extending around the busts of the wearer, and hip supporting members connected to the side edges of the lower portion of said panel and extending around the hips of the wearer, said bust supporting members and said hip supporting members being unconnected except through said panel, and said panel having hose supporters secured to the bottom thereof and said bust supporting members being provided with extensions passing over the rear hips of the wearer and to which hose supporters are secured for the purpose described.

1,454,418. TRANSPARENCY AND METHOD OF MAKING THE SAME. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed Oct. 22, 1915. Serial No. 57,346. 8 Claims. (Cl. 88—16.4.)



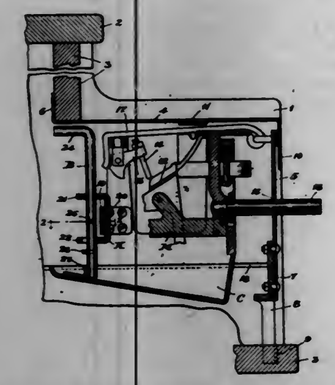
6. A transparency bearing a series of groups each of complementary geometrically like simultaneous photographs separated by a plurality of spaces for members of similar groups.

1,454,419. APPARATUS FOR CONTINUOUS EXTRACTION, PARTICULARLY OF OIL. MOSE WILDUSCHEWITSCH, Zurich, Switzerland. Filed Aug. 11, 1920. Serial No. 402,863. 1 Claim. (Cl. 87—6.)



An apparatus for the extraction of oil from fruits by means of a solvent, comprising a series of long tubes, means for forcing the extraction material through said tubes in counter current to the solvent, machines for repeated mechanical expression interposed between said tubes, a still for separating the oil from the solvent, and means for introducing the solvent into the series of tubes and thereby producing a closed circulation of the solvent.

1,454,420. COIN-CONTROLLED MACHINE. ALEXANDER WITTENBERG, New York, N. Y., assignor to Autosales Corporation, a Corporation of New York. Filed June 8, 1918. Serial No. 238,825. 3 Claims. (Cl. 194—1.)



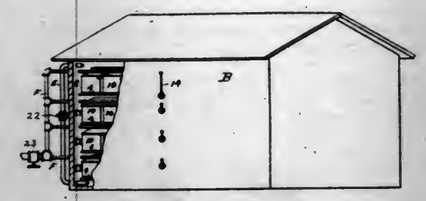
1. In a coin-controlled machine, a casing provided with a removable front panel adapted to be locked in place, a horizontally slidable top plate adapted to be locked in place by said panel when the latter is in position on the casing, a vertically shiftable front plate extending below said top plate and locked against vertical movement by said top plate when the latter is in position on the casing, a horizontally slidable coin-box below said top plate and back of said front plate, and a vertically movable bolt arranged between said top plate and said coin-box for normally locking the latter against forward movement, said bolt being locked against movement into releasing position by said top plate when the latter is in normal position.

1,454,421. GREASEPROOFING COMPOSITION AND FIBROUS MATERIAL TREATED THEREBY. WILBUR L. WRIGHT, Fulton, N. Y. Filed May 10, 1920. Serial No. 380,365. 8 Claims. (Cl. 134—11.)

4. A greaseproofing composition consisting essentially of emulsified cocoanut oil and an adhesive solution.

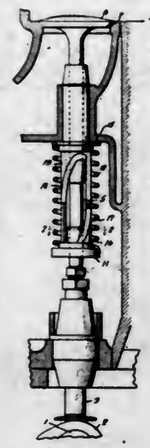
7. A fibrous material container for food products internally coated by a composition embodying a gelatinous material body and cocoanut oil.

1,454,422. PROCESS FOR MAKING EDIBLE MALT AND SPROUTS. KUMAKICHI ABE, Selma, Calif. Filed Feb. 18, 1922. Serial No. 537,493. 2 Claims. (Cl. 195—24.)



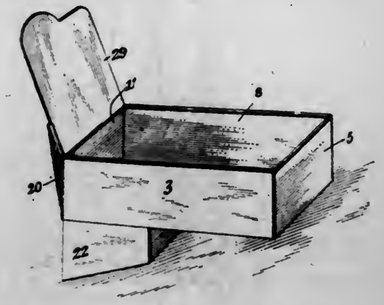
2. A process for growing bean sprouts consisting of planting the beans in moistened sand contained in a closed box, said closed box having means for draining excess moisture therefrom, said box being kept during the propagation of said sprouts within an enclosure heated with steam sprays to approximately 85° Fahrenheit, and said plants being subjected to washing sprays of cold water at intervals of approximately 155 minutes during said propagation.

1,454,423. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. MARCUS O. ANTHONY, New York, N. Y., assignor to Continental Engineering Corporation, Omaha, Nebr., a Corporation of Nebraska. Filed Mar. 7, 1921. Serial No. 450,420. 1 Claim. (Cl. 123—90.)



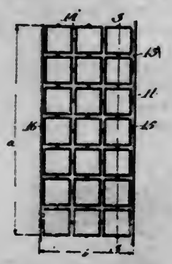
In an internal combustion engine, the combination with a poppet valve, of a fixed thimble carried by the stem thereof near its free end and spaced from the valve guide, a pair of spaced washers surrounding the valve stem, one adjacent said thimble and the other adjacent said guide, there being a plurality of cam-prongs projecting from each washer toward the other, a one-way clutch between said thimble and the washer adjacent thereto, and a helical spring interposed between the washers and surrounding the prongs, the ends of the spring being nonrotatably secured to the respective washers and the direction of coiling the spring being such as to oppose the wedging effect of said prongs.

1,454,424. DISPLAY BOX. CHARLES BASHWINER, Jamaica, N. Y., assignor to Fort Orange Paper Company, Castleton, N. Y., a Corporation of New York. Filed Jan. 12, 1922. Serial No. 528,834. 2 Claims. (Cl. 206—44.)



1. A display box comprising a container having more than one ply of material in each of its sides and ends, a display member, a combined cover and support therefor, and a flexible connection between container and support, the connection being integral with one of the plies of material at the rear end of the box, and when the container is in display position extending from a position at a distance above the rear end of the box to the highest part of the support, a backing member also extending above the top edge of the box arranged to hold the display member in erect position, the said display member having a depending portion interposed between two of the plies of material at the rear end of the box.

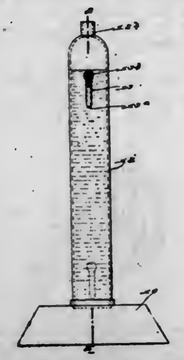
1,454,425. RADIATOR AND PROCESS OF PRODUCING SAME. IRA S. CHAPMAN, Venice, and CLYDE E. MORT, Rialto, Calif. Filed July 11, 1921. Serial No. 483,876. 2 Claims. (Cl. 204—8.)



1. A method of producing a cellular radiator comprising; assembling a multiplicity of metal tubes; casting a retaining material in the space between said tubes; electrically depositing metal to bind the ends of said tubes together into a single section; and thereafter removing the retaining material.

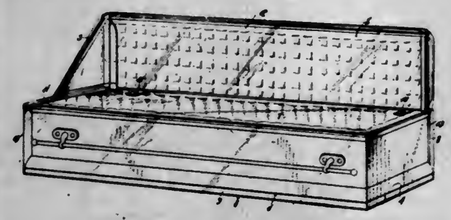
1,454,426. STORE-WINDOW ATTRACTION. HENRY B. CLEMENTS, Somerville, Mass. Filed Mar. 23, 1921. Serial No. 454,896. 1 Claim. (Cl. 46—41.)

A window stand attraction comprising an upright, transparent tubular column containing liquid, means concealed with respect to said column for causing automatic and periodic variation in pressure upon the liquid therein, said means including provision for establishing communication with the atmosphere at definite intervals to prevent a cumulative effect of variation in pressure, and a



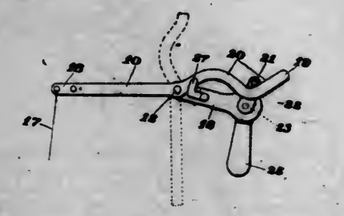
member immersed in the liquid of the column arranged to be responsive to such variations in pressure to cause the same to rise and descend in the column.

1,454,427. CASKET PROTECTOR. GEORGE A. CUNNING, Chicago, Ill. Filed Nov. 3, 1921. Serial No. 512,489. 3 Claims. (Cl. 27—19.)



1. A protector for caskets composed of a body portion having an upper wall, two end walls and a side wall adapted to slip over the body of a casket, one of said end walls having a hinged flap, and a cover provided with an elongated rear portion adapted to extend from the upper edge of a raised cover of the casket to the lower portion of the casket body, said cover protector also having a downwardly extending forward part forming between the same and the rear wall of the protector a pocket fitting the coffin closure, and detachable means for uniting the body protector and the cover protector together, both of said protectors being composed of transparent material.

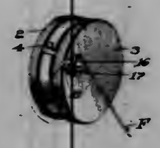
1,454,428. OUTLET-VALVE-OPERATING MECHANISM FOR FLUSHING TANKS. ANDREW F. CURTIN, Medford, Mass. Filed May 20, 1919. Serial No. 298,451. 3 Claims. (Cl. 4—5.)



3. An outlet valve operating mechanism for flushing tanks, comprising a valve operating lever, a pivot upon

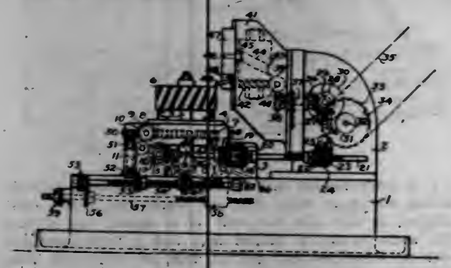
which it is supported, a pin for operating the lever and limiting its movement in one direction, a stop for limiting its movement in the opposite direction, means for preventing movement of the lever lengthwise of its pivot within the amplitude of movement permitted by the pin and stop, and permitting such movement beyond the limit of throw of the lever determined by the pin.

1,454,429. DENTAL FLOSS DISPENSER. FRANK G. DRESSER, Providence, R. I. Filed Nov. 25, 1922. Serial No. 603,239. 4 Claims. (Cl. 242—137.)



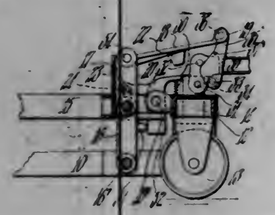
1. A dental floss dispenser comprising a closed case consisting of two telescoping parts having a bayonet joint connection with each other, a reel enclosed in said case and adapted to hold a supply of dental floss, said reel being centrally recessed, and a coiled spring carried by one of said casing parts and bearing on the bottom of said recess.

1,454,430. PROCESS FOR CUTTING GEAR WHEELS. HENRY J. EBERHARDT, Newark, N. J., assignor to Newark Gear Cutting Machine Co., Newark, N. J., a Corporation of New Jersey. Filed Jan. 2, 1920. Serial No. 348,958. 15 Claims. (Cl. 90—9.)



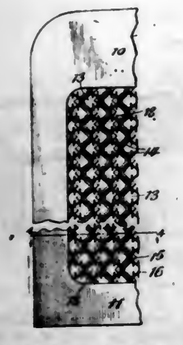
2. The method of cutting gear wheels, which consists in imparting continuous rotational motion to a gear blank and a continuous reciprocation to a rack element in a plane parallel to the axis of said blank and normal to the radius thereof and at a relative rate proportionate to the number of teeth to be cut in said gear blank.

1,454,431. ELEVATING TRUCK. FRANK L. EIDMANN, Holyoke, Mass., assignor to J. Lewis Wyckoff, Edward N. White, and George F. Jenks, trustees, all of Holyoke, Mass. Filed Aug. 4, 1919. Serial No. 315,288. 12 Claims. (Cl. 254—10.)



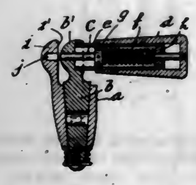
1. In an elevating truck, a support, an elevating platform, a handle pivoted on said support, a lever pivoted on said support at a point separate from the handle and having a cam surface, a member pivoted to the platform and having means for engagement with said lever, and a part on the handle having sliding engagement with said cam surface.

1,454,432. RADIATOR. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Jan. 22, 1921. Serial No. 439,076. 4 Claim. (Cl. 257—130.)



1. A radiator comprising a plurality of water tubes and a plurality of air passages arranged between adjacent water tubes, each of said water tubes having its walls constructed of two corrugated strips of sheet metal which are spaced apart to form the water passage between them and are arranged parallel so that the inner convex side of each corrugation on one strip faces the inner concave side of a corrugation on the other strip, and a spacing strip of corrugated sheet metal arranged between said wall strips so that the outer summits of the wall strips engage with the summits of the corrugations of the spacing strip and form with the latter said air passages, and the slopes of the corrugations of said radiating strip being provided with longitudinal rows of wings which are removed from the metal of said strip and each wing being attached at one of its longitudinal edges to the respective spacing strip and projecting with its other longitudinal edge into the adjacent air passage, each of said wings being of V-form at its free end.

1,454,433. GAS-COCK LOCK. WILLIAM H. FRANKLIN, Jr., Merrimac, Mass. Filed Apr. 17, 1922. Serial No. 553,520. 3 Claims. (Cl. 251—165.)



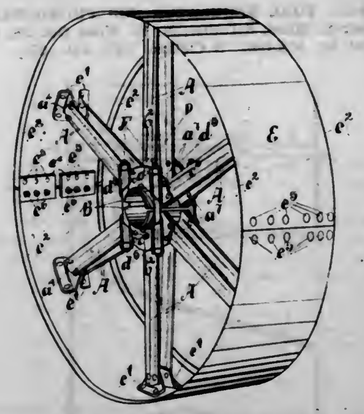
1. A gas cock comprising a casing having a rotatable stem therein, an arm secured to, and extending from said stem at one side thereof, a handle reciprocably mounted on said arm, a locking rod reciprocally movable within said arm, said rod being attached at one end to said handle and being adapted to project beyond said stem at its opposite end, an abutment on said casing arranged to engage one side of said rod to lock the stem in closed position and a spring arranged within the handle to move the handle and rod to locking position.

1,454,434. MEANS FOR SINKING CONCRETE PILES. ERNEST GILMORE GARDNER, Brooklyn, N. Y. Filed Dec. 5, 1919. Serial No. 342,636. 6 Claims. (Cl. 61—57.)



1. A pile shell which is of constant exterior diameter and which is of greater thickness at its upper end than at its lower end so that its interior diameter is less at its upper end than at its lower end.

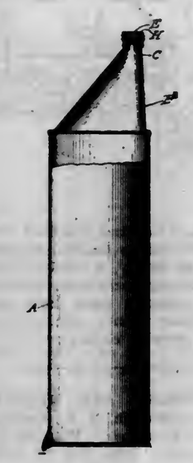
1,454,435. DIVIDED DRIVING PULLEY AND THE LIKE OF SHEET-METAL CONSTRUCTION. EDMUND GARSIDE, Darlington, England, assignor to John Henry Morgan, Sheffield, England, and to The Skerne Works Limited, Darlington, England, a Corporation of Great Britain and Ireland, and himself. Filed Oct. 22, 1920. Serial No. 418,818. 2 Claims. (Cl. 64—18.)



1. In a divided driving pulley of sheet metal construction in which the whole of the arms of one half thereof are formed from a single sheet of metal, the arrangement of a half bush formed of sheet metal and adapted to engage both the shaft and one of the arm elements, segmental plates riveted to the arms and boss elements of sheet metal riveted to said segmental plates and said half bush.

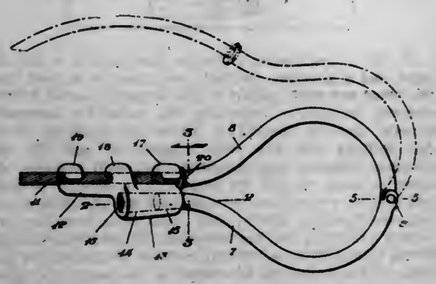
1,454,436. EASY-POUR OIL CAN. FREDERICK D. GATCHELL, New York, N. Y., assignor to Texas Company, a Corporation of Texas. Filed Mar. 28, 1919. Serial No. 285,840. 1 Claim. (Cl. 220—27.)

As an article of manufacture, an oil dispensing can for automobile use provided, after being filled, with a puncturable seal that is normally intact, whereby the can can be carried without leakage in an automobile in any random position, and that must be punctured before the contents are dispensed, comprising an alongated cylindrical body of such diameter that it can be conveniently grasped by the hand of the user in dispensing the contents, a tapered top of modified frusto-conical form, with its axis inclined relative to the axis of the body of the can and terminating in an eccentrically disposed pouring outlet of ring-like form whereby the can em-



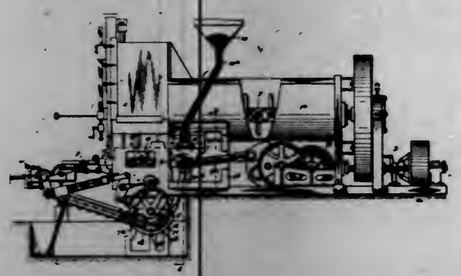
bodies its own funnel of such shape as to facilitate the use of the can in restricted places, a puncturable seal of soft metal capping the the outlet and having a downwardly projecting annular flange exteriorly engaging the ring-like portion of the outlet and permanently fixed thereto, a sheet metal cylindrical neck portion, one end of which is fitted exteriorly over the flange of said seal and permanently secured thereto, and a removable top screw threaded upon the open end of said neck portion for protecting the seal while the can is being carried before the seal is punctured for dispensing purposes.

1,454,437. TWOLINE HITCH. JOHN C. GEILS, Bensenville, Ill. Filed Dec. 27, 1921. Serial No. 525,233. 11 Claims. (Cl. 24—123.)



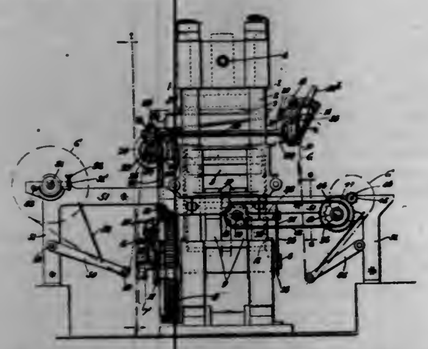
1. A terminal coupling for a cable comprising a loop member composed of sections connected by a hinge joint so that the sections can be swung apart for placing them around a portion of an object, a cable assembled with said member and a member secured to one end of the loop member and having means for the engagement of the cable to hold the loop member closed.

1,454,438. SAND-FEEDING MECHANISM. HENRY W. B. GRAHAM, New London, Ohio, assignor to The Arnold-Creager Company, New London, Ohio, a Corporation of Ohio. Filed Sept. 5, 1918, Serial No. 252,682. Renewed Sept. 14, 1921. Serial No. 500,719. 35 Claims. (Cl. 25—115.)



1. In mechanism of the class described, the combination with a brick machine and a sanding mechanism therefor, of a source of sand supply, a conduit leading into the chamber of said sanding mechanism, mechanism having a movable element engaging sand from said source of supply for discharging it into said conduit, and means for operating said movable element.

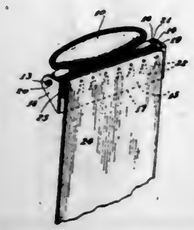
1,454,439. MEASURING AND FEEDING DEVICE. HARRY J. HAON, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 17, 1919. Serial No. 311,663. 24 Claims. (Cl. 101—3.)



10. In an embossing press, in combination, a die element and a pressing element, one movable to and from the other and with respect to the hereafter named driving element, means for imparting the to-and-fro movement to said movable element, a driven web-handling device for shifting the web with respect to said die and pressing elements and mounted upon said movable element to move to and fro therewith, a driving element, and driving connections between said driving element and said web-handling device, said connections including provisions providing for the movement of said web-handling device to and from the driving element as such device partakes of the to-and fro movement of the movable element.

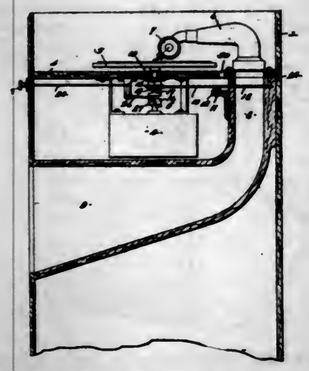
1,454,440. RUSTLESS BUCKLE. MICHAEL HAWIE, Bridgeport, Conn. Filed July 15, 1922. Serial No. 575,314. 2 Claims. (Cl. 24—184.)

1. A buckle comprising a sheet metal frame member and a lever member, said frame member including a back having forwardly projecting ears and a series of spaced apart inverted V-shaped cuts forming teeth, all of said teeth being struct outwardly from the back in a direction opposed to the direction of said ears, whereby the inner surface of said back between said ears is free of projections, the points of said teeth extending substantially in the same direction upwardly as the apices of the cuts and being spaced from the outer surface of the back to permit the insertion of a web having its edge inserted downwardly between the teeth and the outer surface of the back and abutted by the base of the teeth, the end portion of the web being grippingly engaged by said



teeth, and having portions exposed through the openings formed by the teeth at the inner side of the back, the web adapted to be folded downwardly upon the teeth to conceal them, the points thereof engaging the bight of the fold to increasingly grip the web upon downward pull thereon, the lever member being pivoted in the ears of the frame member and including an operating arm and a clamping arm arranged at an angle thereto and having a gripping edge adapted in the operation of the lever to engage a reach of the web instead between the frame and lever.

1,454,441. TONE REGULATOR FOR PHONOGRAPHS. HENRY K. HESS, Syracuse, N. Y. Filed Oct. 18, 1921. Serial No. 508,430. 3 Claims. (Cl. 181—27.)

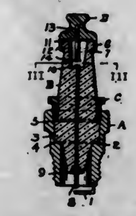


1. In a phonograph, the combination with a rotatable record support, a motor for actuating the support, and a sound conduit, of a tone regulator coacting with the sound conduit, and connections between the tone regulator and the motor whereby the tone regulator is actuated by the motor, substantially as and for the purpose described.

1,454,442. SPARK PLUG. FRANK A. HOWARD, Swissvale Borough, Pa. Filed Apr. 11, 1919, Serial No. 289,403. Renewed Feb. 17, 1922. Serial No. 537,356. 1 Claim. (Cl. 123—169.)

In a visible spark plug, the combination of a metallic bushing, a one-piece insulator integrally pressed of

vitreous transparent material and mounted in said bushing, the outer end of said insulator being provided with a concentric axial recess pressed in the end of said insulator to form a spark chamber, an electrode carried by said bushing, a second electrode embedded axially of said insulator and about which the molten material of said insulator is sealed in pressing the latter, one end of said axial electrode protruding from the inner end of said insulator to form with said first named electrode the



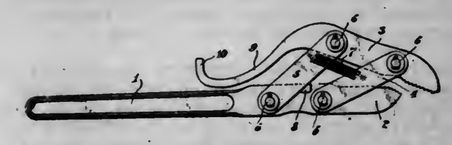
ignition spark gap, while the other end of said axial electrode protrudes into said axial recess in the outer end of said insulator, said recess being of materially greater diameter than said axial electrode, a cap mounted on the outer end of said insulator and closing said recess to complete the spark gap chamber, and a third electrode extending through said gap into said chamber and forming a second spark gap with the outer end of said axial electrode.

1,454,443. DEVICE FOR USE WITH SAFETY-RAZOR BLADES. ERNEST NORBERT KENNEDY, London, England. Filed Feb. 2, 1921. Serial No. 441,826. 3 Claims. (Cl. 30—10.)



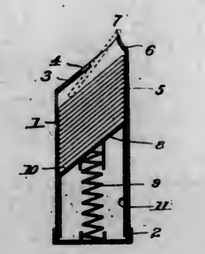
1. A device for use with safety razor blades comprising in combination, a blade holder formed from a single strip of metal bent to U shape in cross section and open along one longitudinal edge and slotted along the opposite longitudinal edge, a handle movably connected to one end of said blade holder and adapted to embrace one of the longitudinal edges thereof, and a U-shaped clamping member pivotally connected to the opposite end of the blade holder and adapted to press the sides of the blade holder together to grip by friction alone a double-edged safety-razor blade inserted between said sides, for the purposes set forth.

1,454,444. WRENCH. ANGELOS KOMNENUS, New York, N. Y., assignor of one-half to Eliza O'Day, Deal, N. J. Filed Feb. 23, 1922. Serial No. 538,663. 2 Claims. (Cl. 81—117.)



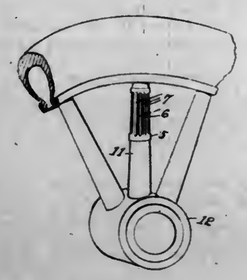
1. A pipe wrench comprising a handle and integral jaw, a co-operating jaw, non parallel links of unequal length connecting said jaws, a spring tending to pull the jaws together and a finger piece extending rearwardly along the handle from the co-operating jaw.

1,454,445. COIN RETAINER AND DISPENSER. ABRAHAM LIEBERMAN, Jamaica, N. Y. Filed Jan. 6, 1922. Serial No. 527,318. 3 Claims. (Cl. 133—6.)



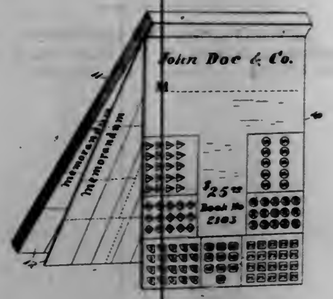
3. The combination with a tubular casing adapted to hold a stack of coins, of a plate extending partially across one end of the casing and having a notch in its free edge, there being a notch in the exposed portion of the same end of the casing opposite the notch in said plate, the portions of said exposed edge of the casing at either side of the notch therein extending to the plane of the outer surface of said plate for the purpose specified.

1,454,446. MATCH SCRATCHER. PETER MCCUAIG, Fort William, Ontario, Canada. Filed Nov. 7, 1919, Serial No. 336,500. Renewed Oct. 21, 1922. Serial No. 596,167. 1 Claim. (Cl. 44—48.)



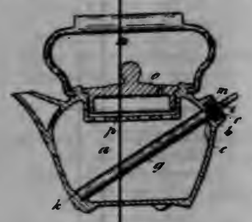
As a new article of manufacture a match scratcher, comprising a pliable metallic sheet having a body portion substantially of rectangular shape arranged with perforated lugs extending oppositely from the sides at the ends of the body portion, a series of rows of corrugations extending longitudinally of the body portion, beads at opposite ends and intermediate the rows of and to extend above the corrugations to serve as guides, and fastening means to engage the lug perforations of a pair of opposite lugs to attach the scratcher to an object, for the purpose specified.

1,454,447. COUPON BOOK. ALLISTER MACKENSIE, Oakland, Calif. Filed Aug. 27, 1918. Serial No. 251,629. 8 Claims. (Cl. 283—50.)



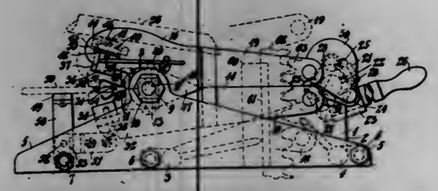
1. In an accounting system means for separately and collectively recording a variable number of transactions of variable monetary value simultaneously and means for limiting the sum total of the variable values to a predetermined amount.

1,454,448. ELECTRIC KETTLE. CHARLES DE COURCY MATULICH, Henley Beach, South Australia, Australia. Filed Aug. 22, 1922. Serial No. 583,471. 5 Claims. (Cl. 219—44.)



4. In an improved electric kettle a container manufactured of refractory material in combination with carbon elements which are a fixture in the container and are connected with electric current for boiling water.

1,454,449. BELT-FASTENING MACHINE. R. SHERMAN MOORE, Cincinnati, Ohio. Filed Apr. 18, 1922. Serial No. 554,506. 10 Claims. (Cl. 1—50.)



1. In a belt-fastening machine, a pair of jaws having faces of substantial longitudinal and transverse dimensions, means for positioning belt fasteners between said jaws, one jaw mounted to swing toward the other, operating means to swing said jaw, and a wedge for moving said jaw rectilinearly to variously space said jaws with both dimensions in parallel relation coincident with the maximum closing exertion of said operating means on said jaw.

1,454,450. BELT FASTENER. R. SHERMAN MOORE, Cincinnati, Ohio. Filed July 10, 1922. Serial No. 573,843. 12 Claims. (Cl. 24—36.)



7. In a belt-fastener, a clip comprising a piece of material of cross-section such that one side presents a surface receding from an initially belt-contacting lesser area, bent to from two members joining in a bend and diverging from said bend and spurs extending toward each other from said members and laterally offset from each other, with said side of said material presented inwardly to wedge into the belt material.

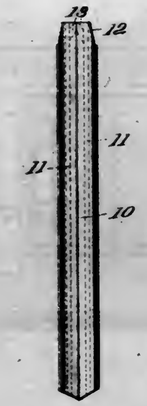
1,454,451. TOOL AND METHOD OF MAKING THE SAME. JOHN B. MOORE, Latrobe, Pa. Filed June 3, 1919. Serial No. 301,437. 18 Claims. (Cl. 76—108.)



1. A method of producing tools comprising providing a high speed tool body with a reduced end having transverse shoulders, inserting the shouldered portion into a socket of low grade material, rotating the engaged body and socket, applying pressure to the socket during the rotation of the parts to force the internal surface thereof into the spaces between said shoulders, and continuing the pressure until the socket is reduced to the approximate maximum transverse diameter of the tool body.

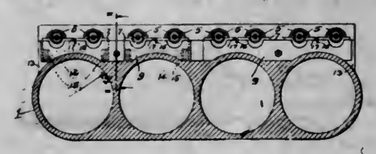
1,454,452. OIL TOOL. JOHN B. MOORE, Latrobe, Pa. Filed Oct. 27, 1920. Serial No. 419,873. 3 Claims. (Cl. 77—68.)

1. A tool of the character described comprising a high speed metal tool body having spaced apart internal bores extending longitudinally therethrough, and a shank of cheaper metal having a socket, one end of the tool body being inserted into and permanently united to said socket, said shank having a longitudinal chamber provided with



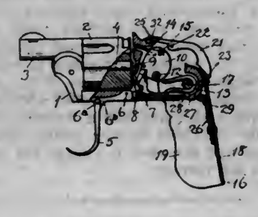
a centrally disposed outlet bore, the bores of the tool body having independent branches registering at their receiving ends with said outlet bore.

1,454,453. VALVE-TAPPET SILENCER. GEORGE W. MOSEY and CLARENCE K. MOSEY, Seattle, Wash. Filed May 10, 1921. Serial No. 468,456. 6 Claims. (Cl. 123—90.)



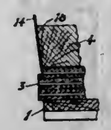
1. A valve tappet silencing device for internal combustion engines comprising means mounted behind the valve tappets in constant contact therewith and spring means for maintaining said contact.

1,454,454. FOLDING REVOLVER. HENRY ROSIER, Lowell, Mass. Filed Apr. 19, 1922. Serial No. 555,610. 1 Claim. (Cl. 42—59.)



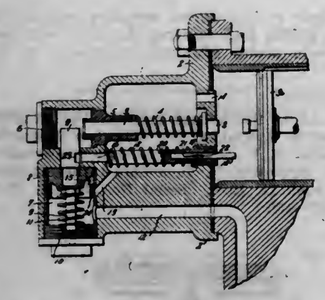
In a revolver, a cylinder, a substantially horizontal trigger lever underlying the cylinder and adapted to have a downward operative movement, said lever having a forward extension pivoted thereto and depending therefrom, in combination with a grip foldable to underlie said cylinder and trigger lever and adapted to prevent said downward operative movement, the frame of the revolver having a cam, and said grip having a spring engaging said cam and adapted to resist unfolding of the grip, the grip having a recess, and a catch lever fulcrumed to the frame and adapted to engage said recess to hold the grip in unfolded position.

1,454,455. APPARATUS FOR AND METHOD OF CUTTING SEPARATOR PLATES. MERLE S. SARGENT, Ashtabula, Ohio. Filed Aug. 2, 1921. Serial No. 489,231. 2 Claims. (Cl. 143—86.)



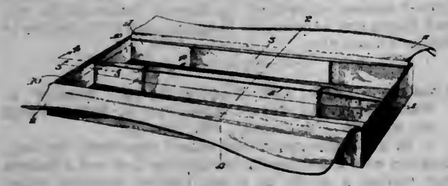
1. In a separator plate cutter, the combination of a table; a guide back; a clamp above the table, said clamp having a guide face; and a saw formed with a sharpened edge produced by bevelling at least one side of the blade as a whole, said edge being intersected by triangular notches leaving closely spaced sharp pointed teeth with knife-edge points acting on said guide face as a guide.

1,454,456. AIR-BRAKE TRIPLE VALVE. ANTONY SILVENS and LEONARD B. STEDMAN, Victoria, British Columbia, Canada. Filed Dec. 12, 1921. Serial No. 521,851. 6 Claims. (Cl. 303—42.)



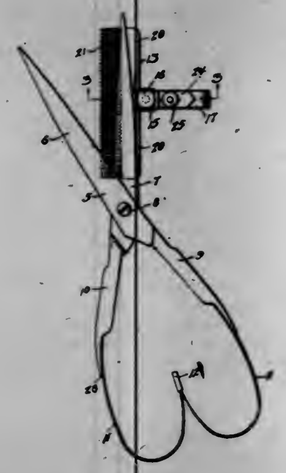
1. In an air brake triple valve, means operative by a reduction of pressure in the train line pipe as for an ordinary brake application for locking the graduating stem and preventing movement of the triple valve piston beyond what is necessary to effect such ordinary application.

1,454,457. GLOVE BOX. GEORGE O. SLINGERLAND, Mechanicsville, N. Y. Filed Feb. 16, 1922. Serial No. 537,135. 8 Claims. (Cl. 206—7.)



1. A substantially rectangular pasteboard box, rigid reinforcing strips secured to the sides of said box and extending the full length of the box, each reinforcing strip being provided with a tapered end.

1,454,458. HAIR-CUTTING DEVICE. ROBERT A. SMITH, Philadelphia, Pa. Filed Aug. 23, 1920. Serial No. 405,356. 7 Claims. (Cl. 30—13.)



1. A hair cutting device including cutting blades, a comb, a flexible loop carrying the comb, and means on one of said blades affording attachment of the loop thereto.

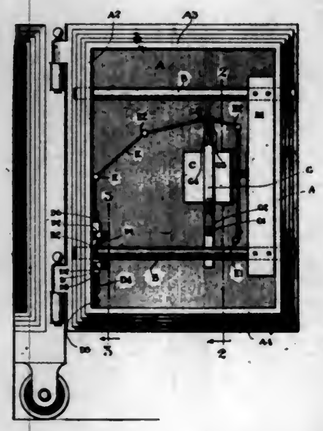
1,454,459. PRESSURE-RESPONSIVE DIAPHRAGM. FREDERICK W. STALKER and DURWOOD D. ROSENBURGH, Rochester, N. Y., assignors to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,291. 6 Claims. (Cl. 137—156.)



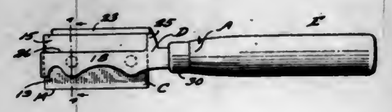
1. In a pressure responsive element, the combination of a flexible diaphragm having a peripheral flange, a second flexible diaphragm having a peripheral flange folded about and secured to the flange of said first diaphragm, and a supporting member between said diaphragms having a curved surface supporting the area of flexure of the second diaphragm adjacent its flange to control the radius of flexure at said area.

1,454,460. SAFE AND VAULT DOOR. ANDREW L. WEST, Knoxville, Tenn. Filed Nov. 3, 1921. Serial No. 512,475. 5 Claims. (Cl. 109—3.)

1. In an apparatus of the nature described, the combination with a door and a combination lock and a locking bolt having a notch, of a key member movable transversely to the length of said bolt and adapted to engage in said notch, constantly acting means tending to move said key member in the direction to make such engagement, a yoke and a brace yieldingly positioned adjacent the combination lock, and means extending from the brace to and into engagement with said key member for normally holding said member in position to avoid engagement with said bolt, said brace being adapted to be released by attempts to derange the locking mechanism, substantially as described.



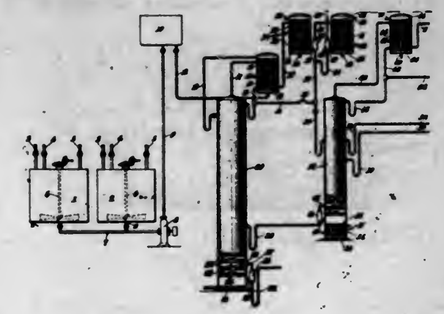
1,454,461. HOLDER FOR SAFETY-RAZOR BLADES. FISHER WRESSELL, Alden, Iowa. Filed Apr. 7, 1921. Serial No. 459,285. 3 Claims. (Cl. 30—25.)



3. As a new article of manufacture, a holder for different types of safety razor blades comprising a pair of companion blade clamping members, means connecting the members together at one end, shanks formed on the opposite ends of said members, a handle for receiving the shanks adapted to hold the members in blade clamping position, one of said members being formed relatively wide and the other relatively narrow, said members having one of their longitudinal edges disposed in parallel alignment, the relatively wide member being extended laterally of the other member, a combined guide and stop flange formed on the laterally extending portion of the relatively wide member, the inner edge of the relatively narrow member being disposed in parallel relation to said flange and forming a shoulder, and a laterally extending lug formed on the relatively narrow portion adjacent to the shank thereof and arranged to engage the guide and top flange at one end thereof.

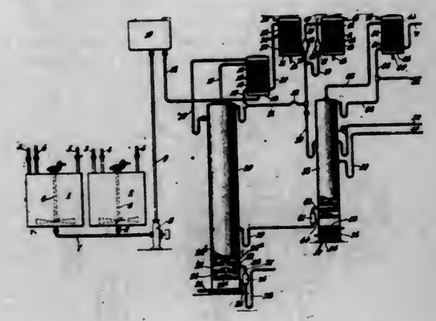
1,454,462. PROCESS OF PRODUCING HIGH-GRADE ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Sept. 20, 1919. Serial No. 325,106. 31 Claims. (Cl. 260—106.)

1. The process which comprises bringing a mixture containing an ester, water, and an alcohol into contact with a body of water, and thereby forming two layers of liquid containing respectively high and low percentages of the ester.



5. The process which comprises continuously forming an ester by feeding an alcohol, an organic acid, and a catalyst, so as to intermingle the same, heating the materials so intermingled by the injection of live steam, and continually removing the vapor of the ester formed.

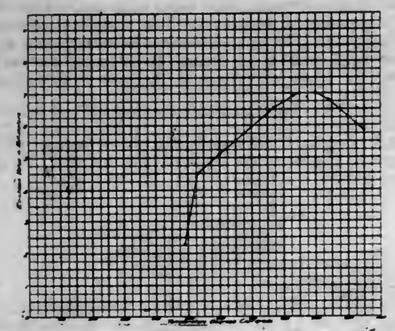
1,454,463. PROCESS OF ESTERIFICATION. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Sept. 20, 1919. Serial No. 325,107. 15 Claims. (Cl. 260—106.)



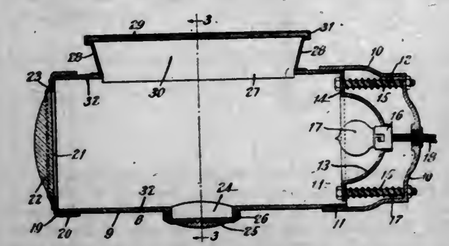
8. The process of making esters comprising introducing a mixture of alcohol, acid and catalyst into a column provided with alternating storage cups and gas and liquid contact cups, heating the column to assist esterification and to subject the bodies of liquid in the cups to the heated vapors produced, distilling off the ester formed at substantially the rate at which it is formed in the said column, introducing a portion of the distilled liquids into a heated separating column and distilling off therefrom a constant boiling mixture of alcohol, water and ester, and separating the ester from aqueous liquid and distilling the ester to separate it from its constant boiling mixture with alcohol and water.

1,454,464. CHROME-IRON SHEET OR ARTICLE AND PROCESS OF MAKING SAME. FREDERICK M. BECKET, New York, and CHARLES E. MCQUIGG, Flushing, N. Y., assignors to Electro Metallurgical Co., a Corporation of West Virginia. Filed Mar. 3, 1922. Serial No. 540,885. 10 Claims. (Cl. 148—13.)

1. Process of making chrome-iron sheets or articles of relatively high ductility, comprising mechanically reducing the metal to sheet by rolling, drawing or equivalent steps; and subsequently rapidly cooling the heated sheet through the temperature range 600°—400° C.



1,454,465. ILLUMINATING DEVICE FOR AUTOMOBILES. FREDERICK W. BECKER and JOSEPH LAGNER, Hyde Park, Mass. Filed Apr. 17, 1922. Serial No. 553,903. 3 Claims. (Cl. 240—7.)



1. In combination, a vehicle, a lamp supported on and behind said vehicle and comprising a casing provided with an opening in the under side thereof, the interior surface of said casing constituting a reflecting surface, a reflector mounted within said casing at one end thereof, a source of illumination mounted upon said reflector, a hood fast to the exterior of said casing and extending around said opening and adapted to direct rays of light reflected from the reflecting surface of said casing beneath said lamp to illuminate the vehicle license plate, a lens located at the rear of said casing and constituting a tail light for said vehicle and a lens located at the opposite end of said casing from said source of illumination and adapted to direct rays of light laterally of said vehicle to illuminate the rear thereof.

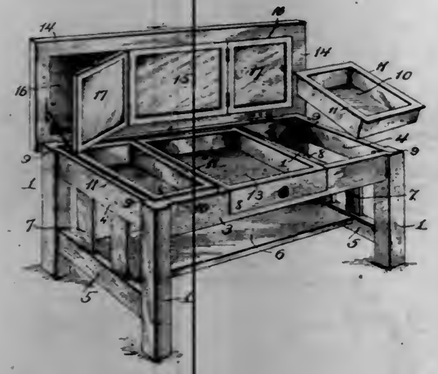
1,454,466. VEHICLE WHEEL. JOSEPH G. CALLO, New York, N. Y. Filed Oct. 18, 1922. Serial No. 595,240. 4 Claims. (Cl. 152—28.)



1. In a vehicle wheel, an inner driving element, an outer driving element in the form of an annulus of U-

shape in cross section partially enclosing said inner element, lugs projecting respectively inwardly and outwardly from said outer and inner elements, coiled compression springs located between the respective lugs, and automatic frictional braking devices carried by the inner element and adapted to engage the sides of said outer element to retard movement of the said elements upon one another.

1,454,467. COMBINATION FURNITURE. EVA M. CROOKS, Columbus, Ohio. Filed Aug. 29, 1921. Serial No. 496,334. 2 Claims. (Cl. 45—70.)



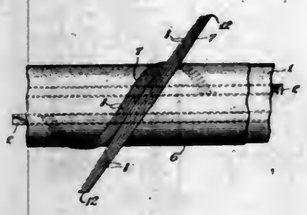
1. An article of combined furniture comprising a supporting frame, a drawer mounted centrally in the frame and slidable through the front of the same, trays removably supported in the frame at the sides of the drawer, the top of the drawers and the tops of the trays being flush with the top of the frame, a flat table top hinged to the rear side of the table, and hingedly connected mirrors carried by the under side of the table top, the table top being recessed on its under side whereby it may house the mirrors in extended relation with their exposed surfaces flush with the under surface of the table top and rest flat on the top of the frame and cover the drawer and the trays.

1,454,468. BELT LOOP. ALFRED D. CROSBY, Attleboro, Mass. Filed Nov. 17, 1922. Serial No. 601,573. 3 Claims. (Cl. 24—3.)



1. In a belt loop, flat arms, a loop connecting the arms, an outwardly inclined extension upon the free end of one arm, an attaching lug upon the free end of the other arm, and a yoke yieldingly supported by the second arm above the lugs in the path of the extension.

1,454,469. PNEUMATIC TIRE. FREDRICK S. DICKINSON, New York, N. Y., and JOHN SPRINGER, Atlantic Highlands, N. J.; said Springer assignor to said Dickinson. Filed Nov. 20, 1919. Serial No. 339,273. 6 Claims. (Cl. 152—13.)



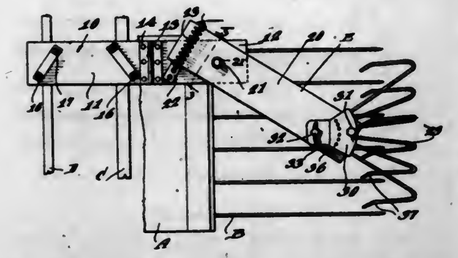
5. An internal body fabric for the shoe or casing of pneumatic tires, comprising a plurality of cord lengths extending in successive position side by side and so shaped in cross-section that the successive lay of said lengths covers at all points the proportional surface area from the bead-edge to the tread portion in a path oblique to the annulus of the tire and compensates for the increasing progressive variable circumference throughout the path in which the cord lengths are laid.

1,454,470. NATURAL WATER-COOLING DEVICE. WILLIAM O. EWINGER, Burlington, Iowa. Filed Feb. 8, 1921. Serial No. 443,321. 1 Claim. (Cl. 257—122.)



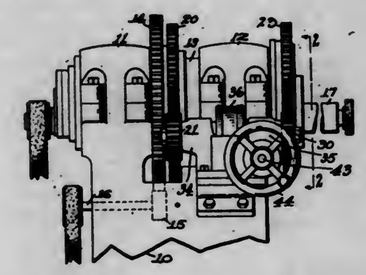
A water cooling device, comprising inner and outer substantially concentric vertical pipes spaced apart from each other and one of which is an inlet and the other an outlet pipe and both of which are embedded in the ground, an enlarged tubular casing embedded in the ground and inclosing the upper ends of the said inlet and outlet pipes and being comparatively short, and inlet and outlet feed pipes connected to said inner and outer vertical pipes within said enlarged casing, the latter being provided with a removable cover, and said inlet feed pipe being provided with a cut-off valve located within said enlarged casing.

1,454,471. BUNDLE-CARRYING ATTACHMENT FOR GRAIN HARVESTERS. PAUL GERLACH, Saskatoon, Saskatchewan, Canada. Filed Oct. 27, 1920. Serial No. 420,026. 11 Claims. (Cl. 56—474.)



2. The combination with an ordinary self-binding harvester including a bundle carrier, of an attachment for the harvester comprising a pivotally mounted bar, means for yieldably maintaining said bar in position, a plurality of fingers carried by the outer end of said bar and radiating from a common center, said fingers having their outer portions curving outwardly and downwardly and positioned outwardly of the outer end of the bundle carrier for engaging the outermost bundles carried by the bundle carrier to prevent the accidental discharge of the bundles from the carrier, said first named fingers having their lower ends curved upwardly and rearwardly to form hooklike portions.

1,454,472. ECCENTRIC FEEDING MECHANISM. WALDO J. GUILD, Worcester, Mass., assignor to Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 6, 1921. Serial No. 458,887. 3 Claims. (Cl. 51—90.)

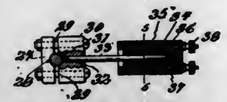


1. In an internal grinding machine, a wheel spindle, a bearing member in which said spindle is eccentrically mounted, a rotatable member in which said bearing member is eccentrically mounted, and means to adjust the eccentricity of said bearing member in said rotatable member, said means including a pair of internal gears having different numbers of teeth, connections from said gears to said rotatable member and to said bearing member respectively, a carrier in which said internal gears are eccentrically mounted, and means to angularly adjust said carrier.

1,454,473. COMPENSATING BALANCE SPRING FOR CHRONOMETERS AND WATCHES. CHARLES EDOUARD GUILLAUME, Sevres, France, assignor to Société des Fabriques de Spiraux Réunies, Petit-Saconnex, Switzerland. Filed Dec. 22, 1920. Serial No. 432,608. 8 Claims. (Cl. 75—1.)

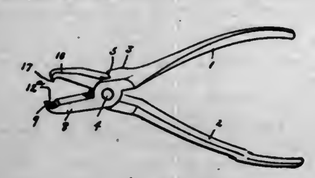
1. A compensating balance spring for chronometers and watches which has a compensating capacity adapted to the range of temperatures principally available in practice and reduces sufficiently the secondary error within the said range of temperatures, when employed with a continuous balance, and is composed of an alloy of iron and nickel (the latter in the proportion of from 25 to 45 per cent) containing from 4 to 8 per cent of chromium.

1,454,474. POTENTIAL INDICATOR. OTTO E. HUEBNER, Richmond Hill, N. Y. Filed July 5, 1921. Serial No. 482,643. 3 Claims. (Cl. 175—183.)



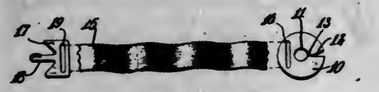
1. An electrical testing device including a two part clamp adapted to embrace a cable or the like, one member having an opening, a second element consisting of a cylindrical casing of insulating material, a conducting sleeve inserted in said casing, binding posts connected to said sleeve, a plug inserted in said sleeve, said plug being of insulating material having a recess, and rod seated in said recess adapted to enter the opening of the clamp, said rod and metallic sleeve constituting both sides of a condenser and the plug constituting the dielectric interposed therebetween.

1,454,475. OPTICAL PLIERS. JOHN E. HUGHES, Utica, N. Y. Filed June 30, 1920. Serial No. 392,963. 2 Claims. (Cl. 81—15.)



1. In a pair of optical pliers for eye glasses, a pair of lever arms having recesses, whereby to fit together, jaws formed by said lever arms, whereby to co-operate with each other, one of said jaws having a longitudinal open recess adapted to straddle the bow part of the bridge piece of said glasses, said jaw also having a semicircular recess to support other parts of said glasses, and the other jaw having a curved hook, whereby to engage and release the metallic part of said bridge piece.

1,454,476. GARTER. SEBASTIEN LACAVALERIE, New York, N. Y. Filed Jan. 9, 1922. Serial No. 528,126. 4 Claims. (Cl. 241—1.)

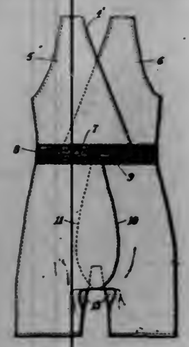


1. A garter comprising a clip formed of a thin plate provided with an aperture and having a slit leading into said aperture from one side of the plate, a band attached to said clip, and a hook attached to said band, said hook being adapted to engage in the said aperture to hold the garter in position.

1,454,477. GARMENT. ALBERT E. LAMBERT, Albany, N. Y. Filed Oct. 15, 1921. Serial No. 507,949. 6 Claims. (Cl. 2—144.)

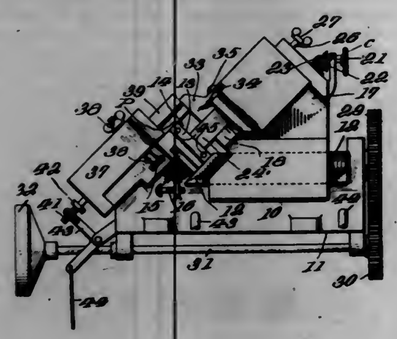
1. A garment of the character described, having a body portion with an integral front having an open-

ing therein, said garment also having a back portion secured at the sides of the garment to said front and co-operating therewith to form the vest or body portion, said back portion having freely over-lapping flaps united to each other substantially at the waist-line and being in over-lapped relation only up to a point adjacent the upper portion of the garment and being extended above the over-lapped parts and spaced apart near the upper portion of the garment, forming a rear neck opening



in continuation of said front opening, the extended portions of said flaps being united with the front of the garment to form shoulder supports adapted to hold the flaps in closed over-lapping relation when the garment is in wearing position, a waist-band extending across the back of the garment and being united with said front and with the over-lapping portions of said flaps, and a nether garment having a rear portion united with said waist-band.

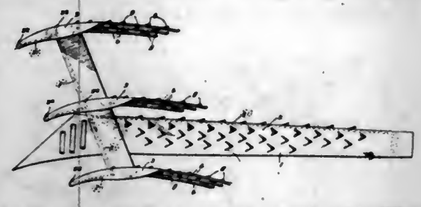
1,454,478. PRESS. HENRY C. LEWIS, Charleston, W. Va., assignor to Charleston Electrical Supply Company, a Corporation of West Virginia. Filed Feb. 20, 1922. Serial No. 538,141. 39 Claims. (Cl. 18—16.)



1. A press of the character described comprising a plurality of members one of which is normally fixed, the other members being movable with respect to the fixed member, whereby a quadrilateral opening is provided when the members are separated.

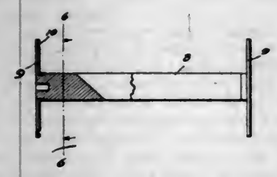
1,454,479. AIRPLANE. DAVID RUSH MCCULLOUGH, Oakland, Calif. Filed Jan. 19, 1922. Serial No. 530,415. 7 Claims. (Cl. 244—12.)

1. In an airplane, a lifting surface comprising a plurality of thin sheets of rigid material disposed in spaced relation to each other and a plurality of flaps deflected from each sheet substantially in the line of draught for



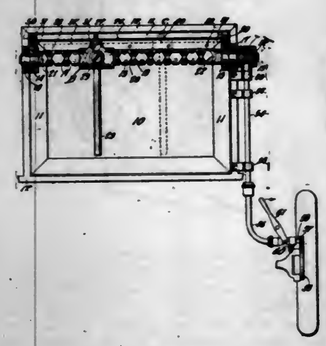
allowing the air to successively engage the different sheets.

1,454,480. FILM SPOOL. CHARLES WRIGHT MACMILLAN, Passaic, N. J. Filed Apr. 2, 1921. Serial No. 458,033. 1 Claim. (Cl. 242—71.)



A film spool for cameras having flanged ends substantially constructed disc shape, the inner face of said discs being provided with a continuous depression arranged adjacent the outer edge thereof and the walls of said depressions being smooth and rectangular in cross section as and for the purpose specified.

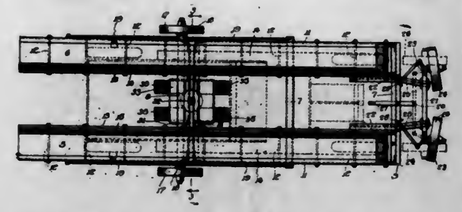
1,454,481. WINDOW CLEANER. JAMES FRANK MAYNE, Norwalk, Ohio. Filed Feb. 6, 1922. Serial No. 534,409. 6 Claims. (Cl. 15—252.)



1. The combination of a cleaner mounted for reciprocation on each side of a window, a reversely threaded shaft journaled on one side of said window, one of said cleaners carried by said shaft and adapted to engage said threads thereon, the other of said cleaners carried by a rod secured to the other side of said window, and both of said cleaners connected by an endless cable.

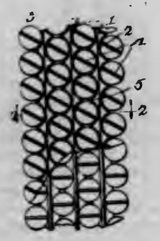
1,454,482. PORTABLE TURNTABLE. FRANK E. MINER, Chicago, Ill. Filed Aug. 12, 1922. Serial No. 581,397. 7 Claims. (Cl. 104—44.)

1. In a portable turntable, the combination of a platform adapted to receive a truck, rear wheels for said platform, means for pivotally supporting said platform in proximity to the center of gravity of a truck thereon so as to dispose said rear wheels clear of the ground, and



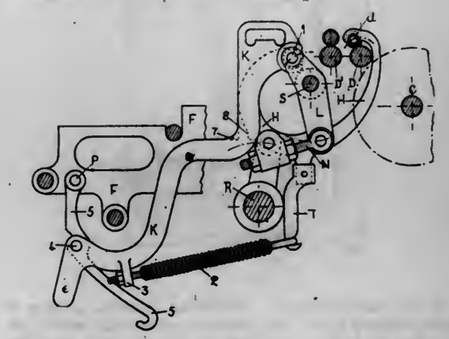
front wheels for said platform adapted to be disposed in substantial parallelism for transportation purposes and to be positioned to travel in an arc about said pivotal support as a center for turning purposes.

1,454,483. RADIATOR. ARTHUR B. MODINE, Racine, Wis. Filed Dec. 30, 1916. Serial No. 139,770. 9 Claims. (Cl. 257—130.)



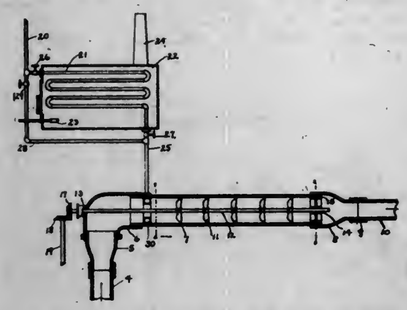
1. In a radiator construction of the kind described and in combination, a plurality of water tubes suitably spaced from each other to form bounding walls of air spaces therebetween, and a plurality of spaced radiating plates formed to provide a plurality of spirals and arranged with a spiral positioned between the tubes and in contact therewith substantially all along their length for agitating the air passing therebetween.

1,454,484. COMBING MACHINE. JOHN W. NASMITH, Manchester, England. Filed Jan. 16, 1922. Serial No. 529,528. 6 Claims. (Cl. 19—118.)



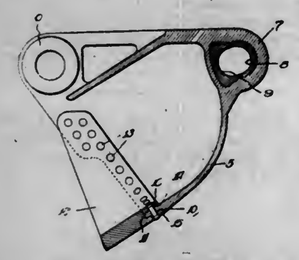
2. A combing-machine wherein a top-detaching roller is mounted to be moved to and fro on a lower roller relatively to the combing cylinder, said machine having a spring and lever connections between the said top roller and spring, characterized by the fact that the lever connections are constructed and arranged to cause the spring to be alternately relaxed and extended as the said top roller moves toward and from the combing cylinder.

1,454,485. PROCESS OF AND APPARATUS FOR TREATING HYDROCARBON OILS. JOHN P. PERSCH, Houston, Tex., assignor of one-fifth to Brainard Tolles, Hohokus, N. J. Filed Feb. 10, 1921. Serial No. 443,953. 4 Claims. (Cl. 137—78.)



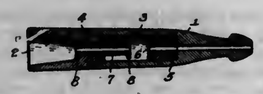
2. An apparatus for treating heavy oils to facilitate their passage through a long substantially horizontal pipe line comprising a section of the pipe line, tubes to supply gas to the section, means to heat the tubes, means to regulate the temperature of the supplied gas, and means to mix the gas and oil while in the pipe line and to force the mixture through the pipe line.

1,454,486. BUCKET LIP. JOHN W. PLANT, San Mateo, Calif., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 13, 1920. Serial No. 409,906. 2 Claims. (Cl. 37—141.)



1. A dredge bucket lip or cutting edge having two rearwardly extending flanges, one adapted to fit inside the body of the bucket, and the other on the outside thereof; said flanges being provided with aligned openings adapted to receive rivets passing through both flanges and the intervening portion of the bucket.

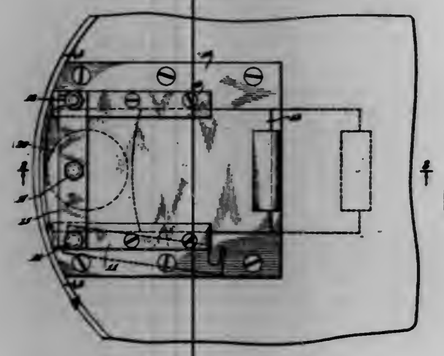
1,454,487. CIGARETTE HOLDER. AUGUST R. RIEGER, Chicago, Ill. Filed May 25, 1922. Serial No. 563,470. 4 Claims. (Cl. 131—10.)



1. A holder for cigarettes and the like, comprising a main shell formed with a longitudinal bore the forward

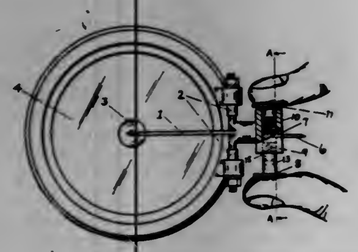
end of which is enlarged to receive a cigarette end, said bore being enlarged intermediate its length to provide a piston chamber, a piston head having movement in said piston chamber, and means intermediate of said piston head and the forward end of the longitudinal bore for receiving the impact of said piston and transferring the same to the end of a cigarette in said forward end of the holder.

1,454,488. BARREL SEAL. GEORGE R. ROWLAND, Elizabeth, N. J., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Aug. 26, 1921. Serial No. 495,464. 8 Claims. (Cl. 217—114.)



1. In a seal for a barrel, a frame secured at one end of the barrel, a pair of parallel spaced guideways secured to the frame, a slide supported within said guideways adjacent said frame and adapted to slide into and out of an engagement with the barrel opening, a bar pivoted to one guideway and adapted to be secured to the other guideway, and means engaging said bar and slide to secure the slide in tight position against the opening.

1,454,489. NEEDLE HOLDER FOR TALKING MACHINES. HERMANN FREDERICK SCHELLING, Grantwood, N. J. Filed May 10, 1920. Serial No. 380,018. 2 Claims. (Cl. 274—37.)



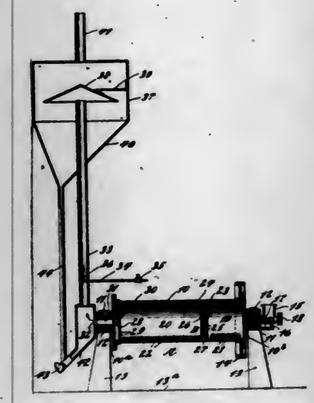
1. In a needle holding device, a compartment containing a spring, a pin co-operating with said spring and having a button, and a flattened portion, a set screw abutting said flattened portion and limiting the motion thereof, a flat jaw on one side of said compartment, a V-shaped jaw on said pin and finger gripping means co-operating with the button on said pin, whereby said jaws may be separated.

1,454,490. JARRING MACHINE. ALBERT B. SCHUYLER and ROSS B. SCHUYLER, Rochester, N. Y. Filed Apr. 21, 1919. Serial No. 291,619. 5 Claims. (Cl. 22—1.)



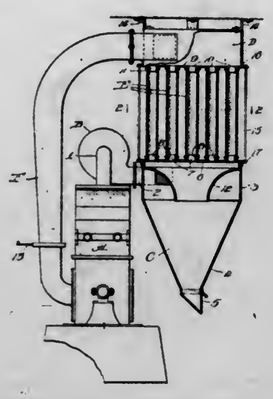
1. A jarring machine comprising a rapidly movable impact member, a blow receiving and work holding member movable in a line with the line of movement of the impact member and being independent in its movement from the impact member, another movably mounted work holding member arranged to cooperate with the blow receiving and work holding member, and resilient means for supporting both of said work holding members.

1,454,491. TUBE MILL. ELLIS C. SOPER, Chattanooga, Tenn. Filed Aug. 15, 1918. Serial No. 249,960. 3 Claims. (Cl. 83—9.)



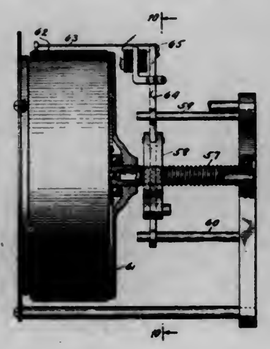
1. In combination, a pulverizing machine having a main discharge for the pulverized material, means for creating a flow of air through the machine and for evacuating the air and moisture therefrom to the atmosphere independently of the pulverized material and comprising a separating chamber in which dust is separated from the air, and means for delivering the separated dust to the main discharge from the mill.

1,454,492. DUST COLLECTING AND SEPARATING SYSTEM AND APPARATUS. EDMUND H. STROUD, Chicago, Ill. Filed June 16, 1919. Serial No. 304,447. 8 Claims. (Cl. 183—34.)



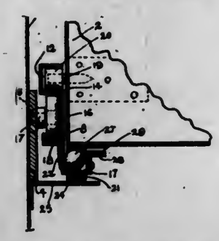
1. In a dust collecting and separating system, the combination of a unit for supplying a stream of air laden with dust or powdered material, of a collecting chamber for receiving the air from said unit and separating the bulk of the material therefrom, fabric filtering means communicating at one end with said chamber to receive and filter the residual material from the air passing from said chamber, and means for relieving the internal pressure on said fabric filtering means comprising a relief pipe communicating with the opposite end of said filtering means and with said supply unit and an adjustable valve for cutting off and regulating the flow of air through said relief pipe.

1,454,493. MILL. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., and WILLIAM WESTERMAN, Detroit, Mich. Original application filed Oct. 8, 1920, Serial No. 415,513. Divided and this application filed Dec. 24, 1921. Serial No. 524,621. 3 Claims. (Cl. 234—1.5.)



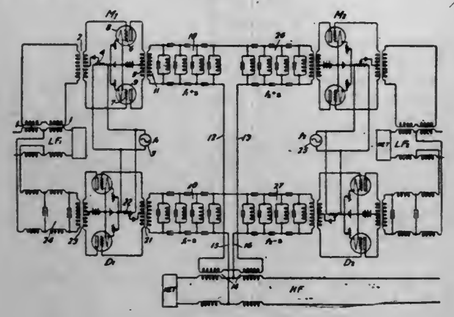
1. In mechanism of the class described, the combination of a rotatable drum, a drive shaft carrying said drum, a chart on said drum and rotatable therewith, a stylus cooperating with said chart, a nut on said drive shaft comprising two members pivotally attached to each other held against rotation on said shaft and adapted to travel longitudinally thereof as the shaft is rotated, a connection between said nut and stylus whereby the stylus is caused to travel with said nut transversely of said chart and an electromagnet mounted on the connection between said stylus and nut for bringing the stylus into operative relation with respect to said chart.

1,454,494. FILING-CASE DRAWER SUSPENSION. ARVINE N. THOMAS, Canton, Ohio. Filed Mar. 4, 1922. Serial No. 540,984. 4 Claims. (Cl. 45—77.)



2. A filing cabinet having rollers journalled upon its inner side walls, suspension members including, upper, intermediate and lower channels, the intermediate channels receiving said rollers, a drawer slidably mounted between said suspension members, rollers carried upon the rear portion of the drawer and received in the upper channels, a partition sheet beneath the drawer and rollers located in the lower channels and engaging the drawer and partition sheet.

1,454,495. SYSTEM OF CURRENT-WAVE TRANSMISSION. HARALD J. VENNES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 26, 1919. Serial No. 299,748. 19 Claims. (Cl. 178—44.)

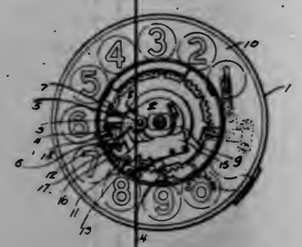


1. The method of two-way transmission of electric energy which comprises modulating at each of a pair of communicating stations a given high frequency wave in accordance with signals and deriving at the respective stations from the wave so modulated, wave components of a given character for transmission in one direction, and wave components of a different character for transmission in the opposite direction.

1,454,496. CALLING DEVICE. ALFRED VISCHER, Jr., Floral Park, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 21, 1920. Serial No. 432,189. 3 Claims. (Cl. 179—90.)

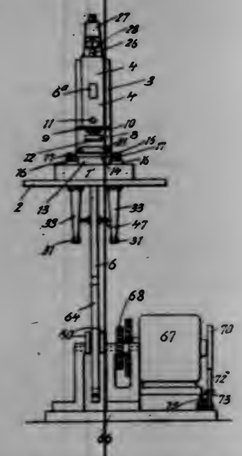
1. In a calling device, an electrical impulse transmitting mechanism, a rotatable finger wheel for operating said impulse transmitting mechanism, means to con-

nect said wheel to said impulse transmitting mechanism when the wheel is moved forward from its normal position, and means to disengage said wheel from said im-



pulse mechanism upon the acceleration of said wheel during its return movement, said means preventing readvancement of said mechanism upon the forward movement of said wheel from any position other than normal.

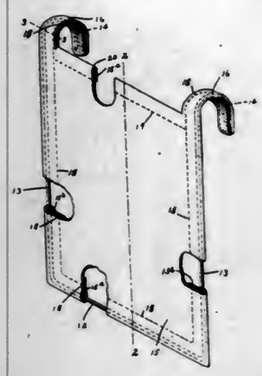
1,454,497. POWER PRESS. SAMUEL THOMAS WALKUP, New York, N. Y. Filed May 20, 1919. Serial No. 298,491. 13 Claims. (Cl. 113—38.)



1. In a press, a punch, a lever for operating said punch, a die, a reciprocatory carriage for said die, means operatively connecting said punch operating lever to said die carriage whereby the former moves the latter into and out of position under the punch co-incidently with the respective advancing and receding movements of the punch, and means limiting the movement of the carriage to position the die under the punch.

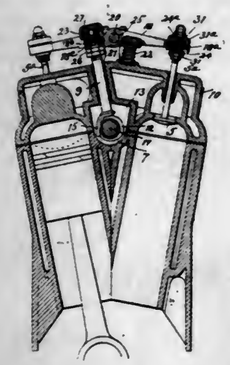
1,454,498. LIGHT SCREEN FOR WINDSHIELDS. RICHARD A. WHALL and EUGENE R. BISHOP, Athol, Mass. Filed Apr. 17, 1922. Serial No. 554,171. 1 Claim. (Cl. 296—97.)

A light screen adapted to be suspended and moved edgewise on the top member of a wind-shield frame and comprising a substantially U-shaped metal frame, the upright, parallel, members of which terminate in hooks, and a flexible body sheet having top, bottom and side flaps, the side flaps being folded about the upright members of the frame and secured to the body of the sheet with their upper ends extending beyond the upper edge of the body sheet and folded and secured about the hooks on the frame, the bottom flap of the body sheet being folded and secured about the bottom frame member and the upper



edge flap of the sheet extending between the side flaps and being folded and secured directly against the body of the sheet, as and for the purpose described.

1,454,499. MOTOR USING OIL, GASOLINE, OR GAS AS A FUEL. ERNEST L. WRENTMORE, West Farmington, Ohio; (Mrs.) Maude V. Wrentmore administratrix of said Ernest L. Wrentmore, deceased. Filed May 29, 1918. Serial No. 237,338. 4 Claims. (Cl. 123—90.)

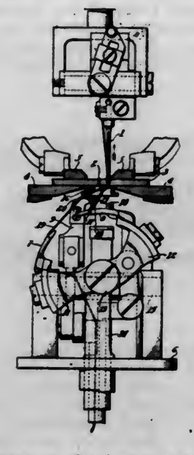


1. In valve mechanism, the combination of a poppet valve, a spring actuated valve rocker having in one arm a hole through which the valve stem passes, two spring seats on the valve stem located respectively above and below the rocker arm, springs respectively interposed between these two spring seats and the rocker arm, a cam, and a sliding push rod which engages said cam and the other arm of the rocker and having a resilient connection with at least one side of the rocker.

1,454,500. STITCH-FORMING MECHANISM FOR SEWING MACHINES. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 18, 1922. Serial No. 537,382. 5 Claims. (Cl. 112—157).

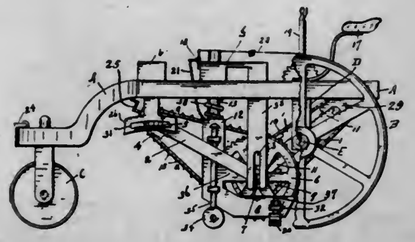
1. In overseaming stitch-forming mechanism, the combination with needle and looper devices for concatenating

needle and looper threads to form a purl stitch, of means for bending toward the plane of the word the length of



looper-thread between the looper and the last stitch, thereby facilitating the setting of the purl close to the edge of the seam.

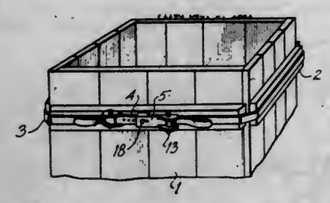
1,454,501. BEET TOPPER. CARL A. J. ANDERSEN, Salt Lake City, Utah. Filed Feb. 14, 1922. Serial No. 536,400. 4 Claims. (Cl. 55—107.)



1. A beet topper comprising a wheel supported frame; an axle journalled in and connected by clutches with two of said wheels; a sprocket gear on said axle; braces movable on said axle; sprocket wheels having shafts journalled in each end portion of said braces; a chain engaged by the said sprocket gear and operating said sprocket wheels; a sprocket gear on one of said shafts; a cross head on said frame having a depending staff and depending legs with slots therein; a shoe frame in which the last mentioned shaft is journalled; shoes yieldingly held in contact with the ground and integral with said shoe frame; another pair of braces one end of each of which is carried on said last mentioned shaft; a bearing member on said frame having slotted feet; a sprocket wheel with its shaft carried in said last mentioned slots; a peg chain operable over the last mentioned sprocket wheel and the last mentioned sprocket gear; and a topping knife fastened on said shoes and adjustable as to said peg chain.

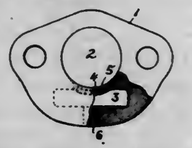
4. In a beet topper, the combination with a driven axle; a sprocket gear thereon; a sprocket chain driven by said gear; a shaft parallel with said axle and journalled for rotation with free vertical movement; a sprocket gear on said shaft over which said sprocket chain is operated; another sprocket gear on said shaft and rotatable therewith; a cross head having a depending staff; a shoe frame yieldingly held at the lower end of said staff and in which the shaft of the last mentioned sprocket gear is journalled, shoes integral with said shoe frame and between which the last mentioned sprocket gear is operable; and a knife adjustable as to said shoes and secured thereon.

1,454,502. FORM CLAMP. GEORGE B. BOSCO, Chicago, Ill. Filed Dec. 3, 1921. Serial No. 519,692. 7 Claims. (Cl. 24—19.)



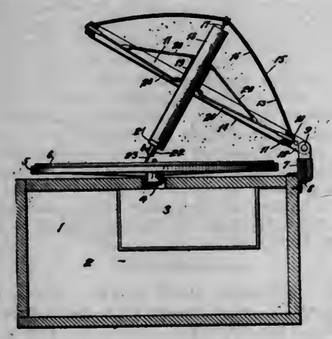
1. A form clamp comprising a flexible element adapted to embrace the form, a pair of members on said element formed for interfitting engagement, a detachable tool for drawing said members into interfitting engagement to permit the interlocking of said members, said tool comprising a body having a pair of jaws adapted for engagement with said members, and a screw mounted on said body and arranged for moving one of said jaws relatively of the other jaw.

1,454,503. CARBURETOR ATTACHMENT. JOHN W. BROWN, Fort Wayne, Ind. Filed Dec. 24, 1920. Serial No. 432,891. 2 Claims. (Cl. 48—180.)



1. In an attachment for a hydrocarbon engine including a carburetor and intake pipe; a trap adapted to be positioned between the carburetor and intake pipe, said trap having a fuel opening extending therethrough from the carburetor to the intake pipe, there being also a cavity formed in the trap and a series of perforations leading from the cavity into said opening; and means for the admission of air into the cavity.

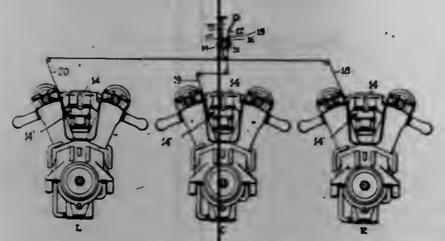
1,454,504. PHONOGRAPH. GEORGE B. BUSCH, New York, N. Y., assignor to Leslie Stevens, Glen Ridge, N. J. Filed Apr. 18, 1918. Serial No. 229,227. 1 Claim. (Cl. 181—31.)



In a device of the class described, the combination with a diaphragm, of a supporting ring having a transversely

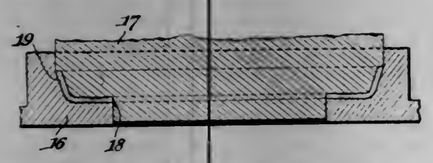
convex peripheral face and a second ring having its inner face transversely concave, the edge portion of the diaphragm being clamped between the convex face of the inner rim and the concave face of the outer rim.

1,454,505. MULTIPLE CONTROL SYSTEM FOR MULTIMOTORED AIRCRAFT. JOHN A. CHRISTEN, Roosevelt, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 31, 1919. Serial No. 286,469. 5 Claims. (Cl. 74—39.)



1. A multiple control system for a plurality of motors including a speed regulating device for each motor, a control lever, a connection between the control lever and two of the speed regulating devices for adjusting both speed regulating devices simultaneously, a second control lever, and a connection between the second control lever and a third speed regulating device for adjusting said third regulating device independently of the remaining two, the arrangement of the control levers being such that, if desired, both levers may be grasped in one hand for operating the three speed regulating devices simultaneously.

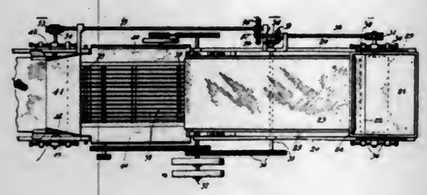
1,454,506. PROCESS AND APPARATUS FOR FORMING CUP PISTON RINGS. GEORGE CHRISTENSON, North Plainfield, N. J., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,495. 2 Claims. (Cl. 18—19.)



1. The process of forming a cup-shaped piston packing ring out of textile fabric or the like which comprises the following steps: First, forming a hollow cylinder of the fabric, the diameter of which equals the outer diameter of the cup ring to be formed; second, changing said cylinder by externally applied stresses into a ring, the cross-section of which is concave and arc-shaped, curving inwardly toward the center of the ring, the greatest diameter of said ring equalling the diameter of the original cylinder and the smallest diameter equalling the inner diameter of the flange of the cup ring to be formed; third, flattening the inner portion of the blank so formed to produce the inwardly extending flange of the completed packing ring and molding the remainder of the blank into an outwardly flaring lip.

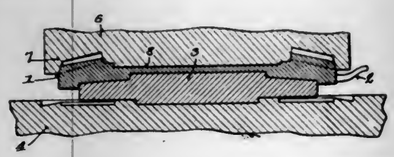
1,454,507. FEEDING MECHANISM. JAMES CONTE, Desplaines, Ill. Filed Feb. 21, 1921. Serial No. 446,663. 3 Claims. (Cl. 198—30.)

1. In a machine of the kind specified, means for arranging articles handled in substantially parallel rows comprising a longitudinally movable apron, a frame superposed thereon consisting of a plurality of spaced bars arranged substantially parallel to each other, an inclined tray secured to said frame at the receiving end thereof and adapted to discharge the articles upon said apron in spaces between said bars, means for vibrating the receiving end of said frame, a cross-piece secured to said



bars adjacent the discharge ends thereof; said cross-piece provided with a plurality of vertical apertures adjacent one end, and a pivotal pin entering one of said apertures to pivot said frame whereby the discharge end of said frame may be adjusted transversely of said apron to regulate the direction of said rows of articles discharging from said apron.

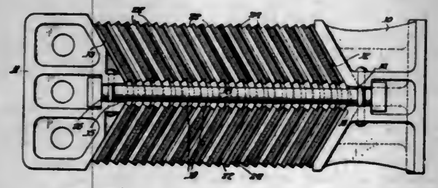
1,454,508. GEAR WHEEL AND METHOD OF MANUFACTURING THE SAME. JOHN ECKERT, Milwaukee, Wis. Filed May 24, 1920. Serial No. 383,840. 9 Claims. (Cl. 29—159.)



1. The method of forming gear wheels having laterally projecting teeth, consisting in heating blocks of metal, hammering them with a pattern die having an annular row of grooves into which the teeth may be upset, inverting the wheel thus formed and placing the same in a similarly contoured relatively stationary pattern die and hammering the other face of the wheel to force the teeth into final conformity with such die.

6. A gear wheel having upset teeth provided with directly hammered faces and having a rear hammered surface.

1,454,509. DRAFT RIGGING. GEORGE L. HARVEY, Chicago, Ill. Filed Jan. 7, 1922. Serial No. 527,571. 9 Claims. (Cl. 213—30.)



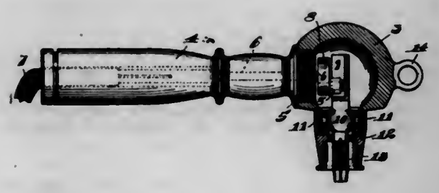
1. In a draft rigging, the combination of front and rear blocks and a series of plates held therebetween, said plates being of angular form and the edges thereof being laterally bent, the edges of successive plates being bent in opposite directions.

1,454,510. ORNAMENTAL BOTTLE TOP. HENRY L. HEITER, New York, N. Y. Filed Feb. 7, 1920. Serial No. 356,838. 3 Claims. (Cl. 215—41.)



1. A cap for bottles designed to cover the cork thereof, having a top portion and a depending flange, said top portion and flange being connected with an annular portion, the depending flange formed at intervals about its circumference with slits extending from the edge of the flange to the annular portion.

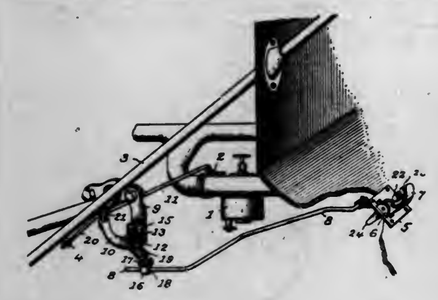
1,454,511. MASSAGE VIBRATOR. LOUIS HERMANN, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,802. 2 Claims. (Cl. 128—48.)



1. A massage vibrator comprising a hollow head; a substantially straight oscillatory lever mounted in said head and protruding laterally from one side thereof, the protruding end of said lever being provided with means for mounting a contact member thereon; an operating shaft mounted to project into said head in operative relation with the inner end of said lever; and a crank pin on the inner end of said shaft, there being a longitudinal groove in said lever engaging said crank pin, said groove extending from the inner end of said lever to a point adjacent its fulcrum, substantially as described.

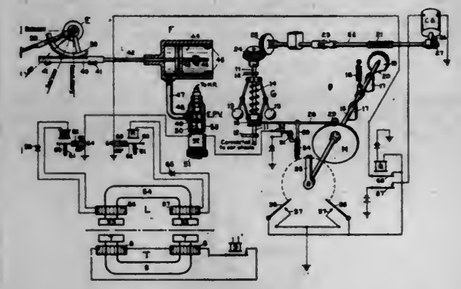
1,454,512. ACCELERATOR FOR AUTOMOBILE ENGINES. JOHN T. HOLMQUIST, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 543,854. 4 Claims. (Cl. 74—39.)

1. In an accelerator mechanism of the type described, the combination of an intermediate bell crank, a hanger bracket formed with upper and lower pivot ears adapted to fit opposite sides of the bell crank, a pivot pin extending through said ears and bell crank and having an upper



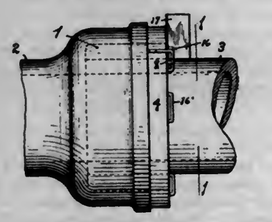
extension forming a supporting post and a coiled spring encircling said post and having end extensions engaging the bell crank and the bracket respectively.

1,454,513. AUTOMATIC TRAIN-CONTROL SYSTEM. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed May 31, 1919. Serial No. 300,976. 42 Claims. (Cl. 246—63.)



10. Speed control apparatus for railway vehicles comprising a permissive speed device biased to an initial condition and changeable to an ultimate condition, brake control means including a speed responsive device and governed by the permissive speed device, and means dependent upon the change of said permissive speed device to its ultimate condition for governing its operation.

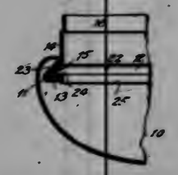
1,454,514. RUNNER. CHARLES A. HOWELL, Ann Arbor, Mich. Filed Apr. 22, 1922. Serial No. 555,939. 5 Claims. (Cl. 22—118.)



2. A flexible runner adapted to be convolutely wound around a pipe end and in contact with the end of a bell into which said pipe end is inserted, an adjustable fastener pivoted at one end of the runner and adapted to

engage the next wrap on the outside of said end to hold the runner in position against the end of said bell, and a clip attached to the runner to hold a spout against said inserted pipe end and against the side of the runner away from the bell.

1,454,515. VANITY BAG AND THE LIKE. NATHAN KASDAN, New York, N. Y. Filed Jan. 16, 1922. Serial No. 529,565. 5 Claims. (Cl. 150—46.)



1. A hand-bag of the character described comprising a flexible holding-portion or bag proper and a metal frame at the mouth thereof and adapted to receive a cover, said frame comprising an outer annular band initially having a base flange and a substantially vertical flange over which the peripheral mouth portions of the bag are folded inwardly and extend upon said base flange, and a superposed annular band flanged at its lower portion to seat within said vertical flange and against the bag-fabric therein, said vertical flange being in the finished article bent inwardly toward and clamping the bag-fabric against the lower portion of said superposed band.

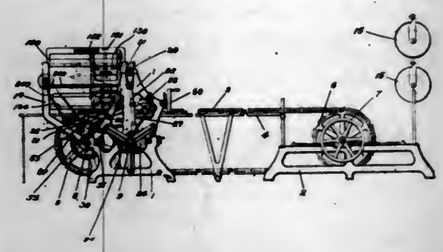
1,454,516. SPARK PLUG. WILLIAM E. LEE, St. Louis, Mo., assignor of one-half to Lendall C. Crosby, St. Louis, Mo. Filed Jan. 28, 1920. Serial No. 354,654. 1 Claim. (Cl. 123—169.)



A spark plug having an outer electrode comprising a shell, an L-shaped stem having a vertical arm screwed into said shell and a horizontal arm extending from said vertical arm, a socket screwed onto said horizontal arm, a terminal in the form of a ball closely confined in said socket but free to turn in response to vibrations of said arm and socket, said socket being provided with scraping edges maintained in engagement with the closely confined ball, and an inner electrode comprising a rod having a socket at one end, a terminal ball closely confined in the last mentioned socket but free to turn therein, the last mentioned socket having scraping edges maintained in engagement with the last mentioned ball.

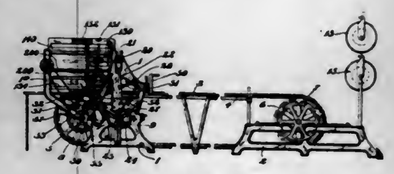
1,454,517. METHOD OF MAKING WIREBOUND BOXES. HENRY J. KOCH, Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Original application filed Nov. 11, 1918, Serial No. 262,027. Divided and this application filed Jan. 27, 1922. Serial No. 532,323. 22 Claims. (Cl. 140—93.)

1. The method of making box parts having wire secured thereto supplied with interengageable fastening means for connection with another box part, which consists in applying wire to a box part and in supplying the



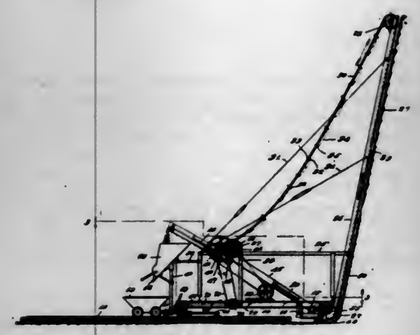
wire end with fastening means during the wire-applying operation.

1,454,518. WIREBOUND-BOX MACHINE. HENRY J. KOCH, Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed Nov. 11, 1918. Serial No. 262,027. 70 Claims. (Cl. 140—93.)



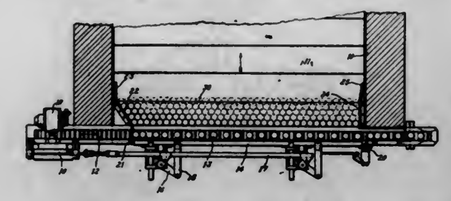
1. A machine for use in box manufacture comprising, in combination, wire-attaching mechanism to secure wire on a box part, work positioning means, fastener-supplying mechanism, means for presenting the wired box part thereto, and means for operating said mechanism to provide wire on said box part with fastening means.

1,454,519. SHALE PLANER. JOSEPH M. POWELL, Brooklyn, Ind., assignor to Eagle Iron Works, Des Moines, Iowa, a Corporation of Iowa. Filed June 22, 1921. Serial No. 479,483. 13 Claims. (Cl. 262—28.)



1. A shale planer, comprising a pivot car, a track on which said pivot car is mounted, means for feeding said pivot car forward along said track, a frame pivotally mounted on said pivot car, means in addition to said pivot car for supporting said frame and permitting it to swing about its pivotal mounting on the pivot car, and a perpendicularly extending shale-cutting mechanism carried by said frame.

1,454,520. LEER FEEDER. BENJAMIN H. PURCELL, Terre Haute, Ind., assignor to Automatic Machinery Company, Terre Haute, Ind., a Corporation of Indiana. Filed Aug. 4, 1920. Serial No. 401,225. 6 Claims. (Cl. 198—31.)



1. In a leer feeder, the combination with a leer having a receiving entrance unobstructed throughout a multiplicity of article diameters and a longitudinally movable carrier therein, a feed carrier supporting and movable beneath the ware and arranged to deliver the ware in a stream transversely of the leer carrier, the pieces of ware being irregularly spaced on said feed carrier, intermittently acting means for transversely projecting accumulated ware from the feed carrier substantially in the line of movement of the leer carrier into the leer receiving entrance and into engagement with the ware immediately preceding it in the entrance of the leer to force said ware forward, of a dam projecting across the feed carrier in position to interrupt the flow of articles upon said feed carrier arranged at a substantial distance in advance of the far side of the leer carrier, and a laterally divergent guide extending from said dam forwardly and outwardly toward the far side of the leer carrier to permit the articles of ware in the leer entrance to shift about on one another, to properly space themselves as they are crowded forward by those introduced in the entrance from the feed carrier.

1,454,521. PROCESS OF MAKING ETHYL ALCOHOL FROM GALACTOSE. EARL C. SHERRARD, Madison, Wis., dedicated, by mesne assignments, to the people of the United States. Filed Apr. 22, 1922. Serial No. 556,129. 3 Claims. (Cl. 195—20.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

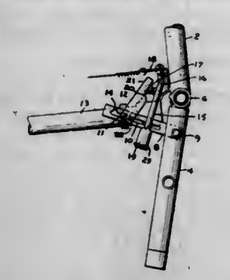
1. The process of making ethyl alcohol which comprises subjecting galactan-containing material to acid hydrolysis, forming a solution of the product, adjusting the acidity of this solution to not more than fifty degrees, seeding with yeast, producing fermentation and maintaining the acidity of the liquid at not to exceed fifty degrees during said fermentation.

1,454,522. BELT BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 8, 1922. Serial No. 559,177. 4 Claims. (Cl. 24—191.)



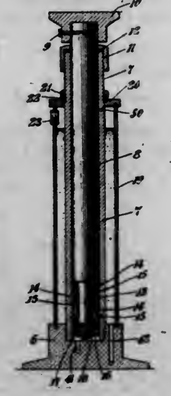
2. A belt buckle comprising a front plate having side flanges, and a pivotally mounted clamping member, yieldingly supported from said side flanges and having belt anchoring means connected thereto.

1,454,523. AUTOMATIC LOCKING DEVICE FOR WALL-BED FOOTPIECES. NEIL SINCLAIR, Oakland, Calif., assignor to Rip Van Winkle Wall Bed Co., Oakland, Calif., a Corporation of California. Filed Apr. 29, 1922. Serial No. 557,365. 2 Claims. (Cl. 5—18.)



2. In combination with a bed adapted to be moved into and out of position for use, of a foot piece mounted on said bed to automatically swing into bed supporting and out of the way positions, a member pivoted to the foot piece having sliding connection with said bed, a member fixed to the bed and into and out of locking engagement with which said pivoted member is moved, a lever having pivot connections with the bed arranged to move said pivoted member out of locking engagement with said locking member and a swinging member acting to engage and rock said lever when the bed is moved out of position of use.

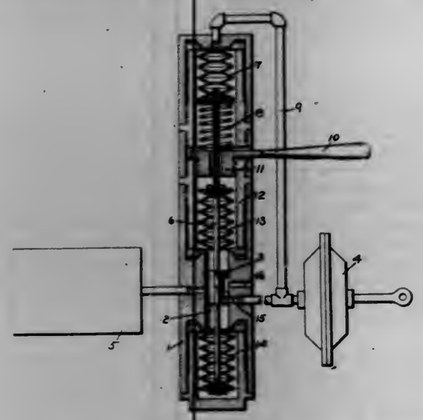
1,454,524. JACK. FREDERICK R. SUNDERMAN, Newburgh, N. Y., assignor to Sunderman Corporation, Newburgh, N. Y., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 368,833. 3 Claims. (Cl. 138—9.)



1. A jack having in combination a base, two concentric cylinders removably secured to the base whereby the base substantially closes the lower end of the space between the two cylinders, a closure member removably secured at the other end of said cylinders forming one element necessary for tightly closing the other end of the space between the two cylinders whereby the space between the two cylinders serves as a fluid reservoir, and also serving as a brace between the two cylinders, a jack element concentric to the inner cylinder and in sliding engagement therewith, said base having a fluid duct leading from the bottom of the space between the two cylinders to said sliding jack element, two valves controlling said duct, a pump cylinder carried on the base at one side of said

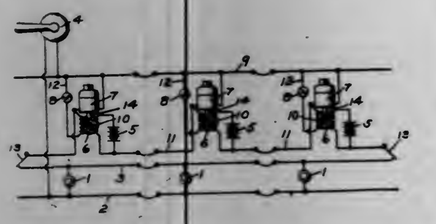
first cylinder, the pump cylinder being connected with said duct between the valves and a pump piston in said pump cylinder for forcing fluid from the space between said first two cylinders to raise the jack element, a member screw-threaded onto one of the two concentric cylinders and a packing held between said last member and said closure member for packing the upper end of said reservoir whereby the threaded member may be turned to compress the packing.

1,454,525. AUTOMOTIVE BRAKE VALVE. HOWARD A. THOMPSON, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 31, 1922. Serial No. 564,681. 5 Claims. (Cl. 303—54.)



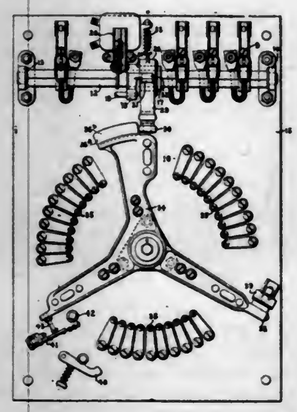
1. A brake valve device comprising a casing having a valve chamber, a vale therein, a spring, a multiple fin diaphragm subject to the pressure of said spring for operating said valve, and manually operated means for varying the force of the spring.

1,454,526. ELECTRIC-BATTERY-CONTROL DEVICE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1917. Serial No. 199,008. 1 Claim. (Cl. 171—97.)



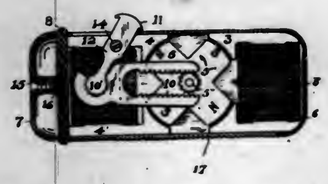
The combination with an electrically controlled train system having a supply line and a return line, of a transmission line from which current is supplied to the supply line, an auxiliary return wire, a plurality of sources of current, a switch device adapted to connect each source of current across the transmission line and the auxiliary return wire, and having an off position and a magnet device associated with each switch device and operated upon energization of the transmission line by one source of current for locking the other switch devices in off position.

1,454,527. CONTROLLER FOR ELECTRIC MOTORS. HENRY N. WADE, Shorewood, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 18, 1920. Serial No. 424,821. 4 Claims. (Cl. 200—7.)



1. In a motor controller, the combination with associated mechanisms to control respectively the line connections and the circuit resistance of a motor, of an operating member for certain of said mechanisms and an operative connection providing for operation of both of said elements upon unidirectional movement of said operating member throughout a given range and also providing for reverse movement of said member through and beyond such range without affecting certain of said mechanisms.

1,454,528. MAGNETO-ELECTRIC SHOCKING MACHINE. WILLIAM P. WIEMANN, Pittsburgh, Pa., assignor to The Wiemann Company, Pittsburgh, Pa. Filed Sept. 28, 1921. Serial No. 503,830. 6 Claims. (Cl. 174—89.)

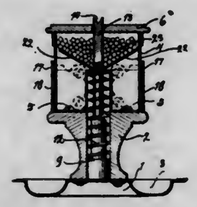


1. A machine for the purpose set forth comprising a casing adapted to be held by the hand and having means therein for generating alternating current, an oscillatory lever actuated by the thumb of the hand holding the casing for operating said generating means during the operation of the lever, a circuit making and breaking element engaging with said generating means and actuated on the operation of the latter, said casing including a body and a cap, the latter insulated from the former and in circuit with said element, said body and cap providing terminals.

1,454,529. MATCH BOX. WILLY ZEBRA, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,479. 1 Claim. (Cl. 206—21.)

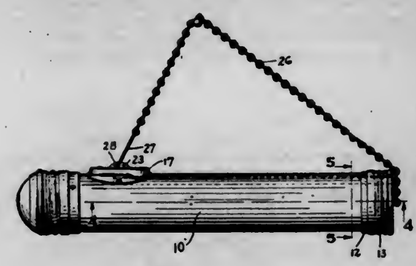
In a device of the class described, the combination with an ornamental, substantially rectangular sheet metal base having an ash receiving channel in its upper surface, a pedestal on said base, a rectangular hollow casing mounted on said pedestal, having opposed central vertical slots in its upper portion, its exterior carrying abrading

surfaces, converging downwardly inclined longitudinal partitions fixed in said casing, and spaced at their lower edges, a cover having a slot in register with the mentioned space, a plunger movable through the space and slot, said plunger having a groove in its upper edge, a guide



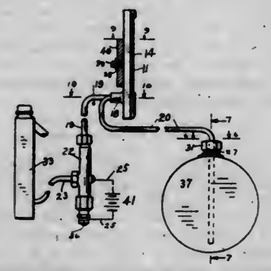
for said plunger, a spring for normally raising said plunger, and rigid handles formed at each end of said plunger, said handles extending through the slots in said casing and acting as limit stops for the movement of the plunger.

1,454,530. HANDLAMP. ARTHUR A. ARNOLD, Hartford, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn. Filed Apr. 2, 1921. Serial No. 457,896. 14 Claims. (Cl. 240—8.5.)



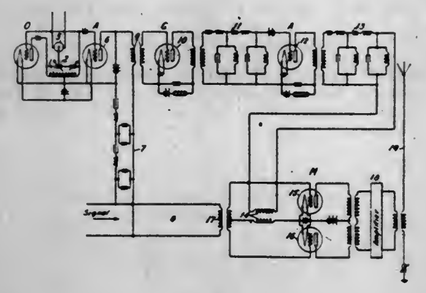
1. An electric hand lamp having a bottom closure and a contact device in combination with a chain secured to the said closure and detachably secured to the said contact device.

1,454,531. INSTRUMENT FOR MEASURING THE HEIGHT OF LIQUIDS. WALTER C. BARNES, Chicago, Ill., and WILLIAM O. BARNES, Leominster, Mass. Filed June 10, 1921. Serial No. 476,446. 6 Claims. (Cl. 73—54.)



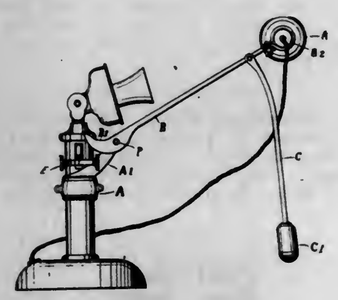
1. In an indicator for liquid level in a container, the combination with a fluid pressure gauge, of an electrolytic cell for decomposing liquid therein by electrolysis, a conduit connecting the cell with the gauge for continuously supplying a fluid pressure thereto, a liquid container, and an outlet conduit connecting said first mentioned conduit with the liquid container below the normal liquid level therein.

1,454,532. METHOD OF AND MEANS FOR SECRET SIGNALING. WILLIAM E. BEATTY, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1917. Serial No. 183,875. 34 Claims. (Cl. 250—6.)



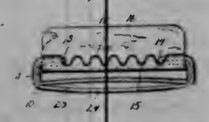
9. The method of signaling which comprises transmitting a voice modulated wave and continuously varying the carrier frequency thereof.

1,454,533. SUPPORT FOR TELEPHONE RECEIVERS. MANLEY A. BOWEN, Fresno, Calif. Filed July 13, 1921. Serial No. 484,402. 1 Claim. (Cl. 179—149.)



In combination with a desk telephone having an upright support, a transmitter, a receiver, and a hook adapted to hold the receiver and to disconnect the electrical circuit when the receiver is depressed, of a member adapted to be clamped to the support, an arm pivoted to the clamped member, said arm having at one end an extension adapted to depress the telephone hook when the arm is raised approximately vertically and to release the hook when the arm is moved to extend outwardly from the support, means on said arm for holding the receiver, and a rigid support weighted at one end and pivoted to the arm at the other end, and adapted to automatically swing to a vertical position as the arm is moved, stop means on said clamp, and means on said arm adapted to cooperate with said stop means when the arm is raised vertically to a position at which the weighted support counterbalances the telephone receiver.

1,454,534. BUCKLE. CHARLES E. BRADSHAW, Waterbury, Conn. Filed Oct. 4, 1922. Serial No. 592,331. 2 Claims. (Cl. 24—184.



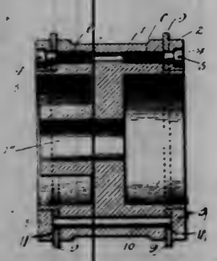
1. A buckle, comprising a frame formed from wire having an upper and a lower bar, a lever pivotally connected with the upper bar, and the lower bar divided longitudinally to form a loop to receive one end of a web.

1,454,535. SHOCK ABSORBER. BENJAMIN F. BURNS, Kokomo, Ind., assignor of one-third to John W. Harbaugh, Kokomo, Ind. Filed Feb. 4, 1922. Serial No. 534,119. 2 Claims. (Cl. 267—20.)



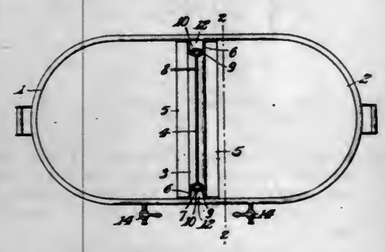
1. The combination with the frame and axle of a vehicle, of a shock absorber construction comprising a pair of arms extending transversely of the axle and beyond opposite edges thereof, levers having bifurcated ends pivoted to said arms and having connection at their opposite ends with said frame, means for holding the arms in fixed position on the axle, a housing integral with each lever and extending above and below the lever at the juncture of the bifurcated and main portions of the lever, said housing being slotted for the passage of said arms, and a pair of shock absorbing springs in each housing one above and one below each arm adapted to support the frame and assimilate shock imparted to the axle.

1,454,536. SPROCKET WHEEL. CHARLES R. CARLETON, Brooklyn, N. Y. Original application filed Oct. 13, 1919, Serial No. 330,177. Divided and this application filed May 1, 1920, Serial No. 378,333. Renewed Apr. 7, 1922. Serial No. 550,510. 1 Claim. (Cl. 74—31.)



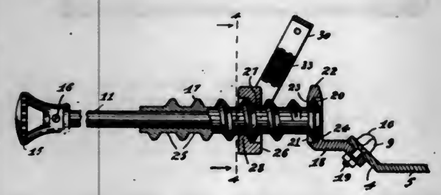
A sprocket wheel, comprising a body having reduced ends, a pin extending axially through the body with its ends projecting beyond the reduced ends of the body, a pair of teeth carrying rings removably positioned on the reduced ends of the body and having openings therein receiving the ends of the pin to maintain the teeth of the rings in alignment, securing rings on the reduced ends of the body covering the openings and the ends of the pin and located against the first-mentioned rings, and screws projected through the pairs of rings at the respective ends of the body and screwed into the body removably clamping the parts together.

1,454,537. WASHBOILER. JOHN R. M. CHALFANT and BESSE PHILLIPS CHALFANT, Morgantown, W. Va. Filed Dec. 30, 1921. Serial No. 526,021. 5 Claims. (Cl. 220—22.)



1. A wash boiler comprising a boiler body a panel adapted to form a division wall whereby the interior of said body is divided into two compartments, and a seat for said panel permanently mounted on the bottom and sides of said body midway between the ends of the latter, said seat being formed of sheet metal and being bent to form opposite foot and leg portions and an intermediate retrorsal loop, the latter affording a guide channel in which the lateral edges of said panel are receivable.

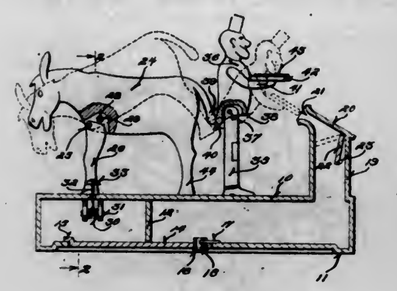
1,454,538. FIREPLACE-DAMPER CONTROLLER. ERNEST F. DONLEY, Cleveland, Ohio, assignor to The Donley Brothers Company, Cleveland, Ohio, a Corporation. Filed July 21, 1921. Serial No. 486,518. 4 Claims. (Cl. 126—288.)



1. In a damper controller, an upright plate bracketed out from a damper frame and having a circular aperture therein, upper and lower beveled flanges flush respectively with the front and rear faces of said plate and projecting into said aperture, a worm encircled by a terminal flange-collar adapted to enter said aperture when tilted and to form both a rotatable and thrust bearing therein when the worm is normal to the said plate, an actuating spindle for said worm, and means connected with said worm for operating a damper.

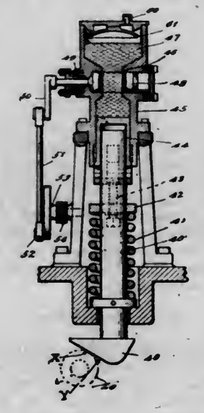
1,454,539. MULE BANK. NICHOLAS S. EBERHARDT and ARTHUR E. HACKETT, Milwaukee, Wis. Filed May 2, 1922. Serial No. 557,895. 1 Claim. (Cl. 46—36.)

The combination of a base, a container carried thereby having a slot therein, a pair of legs secured to said base, a body member pivoted to said legs, said body member being cut away to receive said legs and provided with a shoulder to limit the forward movement of said body member with respect to said legs, means rigid with said body member for carrying a coin, a second pair of legs a donkey body pivoted thereto, the tail of said donkey being adapted to contact normally with a portion of said first mentioned body for maintaining said body in erect position, and means for altering the position of said



donkey and permitting the forward movement of said first mentioned body and the deposition of a coin in said slot.

1,454,540. BOTTLE CAPPER. EDWARD F. EDGECOMBE, Jr., Indianapolis, Ind., assignor to Meier-Gaynor Mfg. Co., Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 30, 1920. Serial No. 420,618. 6 Claims. (Cl. 226—84.)



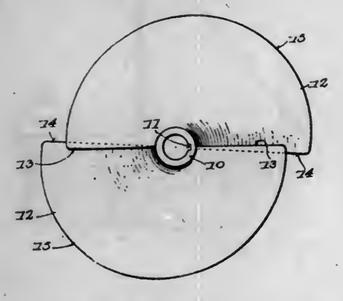
1. A package capping machine, comprising means for carrying the packages successively through capping position and supporting the same relatively stationary, cap-engaging means, an abutment having variable opposition positions for said cap-engaging means, and means in timed relationship with the package-carrying means for holding said abutment in any of its variable positions in opposition to the cap-engaging means.

1,454,541. GARMENT. ELIZA E. FALVEY, Fond du Lac, Wis. Filed July 24, 1920. Serial No. 398,756. 2 Claims. (Cl. 2—80.)

1. A garment of the class described formed from a single sheet of material of rectangular form, folded transversely to divide the same into a back and front portion, said doubled portion being folded longitudinally to form robe sections, one end of said rectangular sheet being folded to provide a hood portion and sleeve portions, two pair of eyelets secured to the bottom edge of said sheet and an eyelet secured on each edge adjacent the other end of said sheet and brought into register when the sheet is folded to form fastening means for the garment.

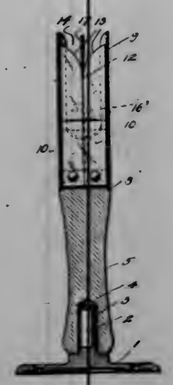


1,454,542. SCREW PROPELLER. ANGELO GRILLI, Milwaukee, Wis. Filed Oct. 27, 1921. Serial No. 510,910. 2 Claims. (Cl. 170—156.)



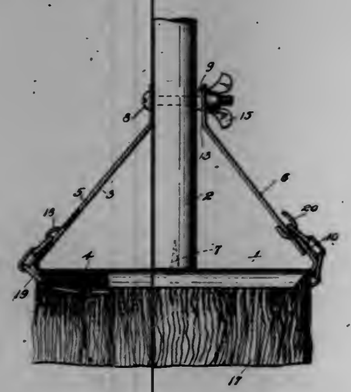
1. A screw propeller having a hub and a pair of symmetrically arranged spiral surfaces carried thereby, each of said surfaces, extending through substantially one hundred and eighty degrees about said hub, and each gradually increasing in width from one end to a point in advance of the other end and then decreasing in width from said point to the other end.

1,454,543. TWINE CUTTER. ERWIN R. JONES, Columbus, Ohio. Filed May 2, 1922. Serial No. 557,913. 6 Claims. (Cl. 30—14.)



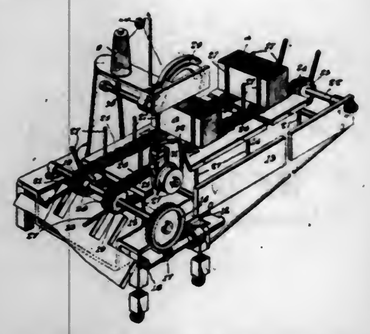
1. A twine cutter, a handle, a pair of blades associated with the handle, and a tubular guard for the blades engaged with the handle and blades for holding the blades against accidental disengagement from the handle.

1,454,544. MOP. JOHN L. JOYCE, Columbus, Ohio. Filed Nov. 14, 1921. Serial No. 514,847. 2 Claims. (Cl. 15—150.)



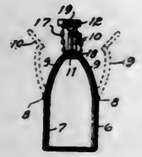
1. A mop holder comprising a staff, a holding frame carried by the lower end of said staff, said frame including a transversely extending base member grooved to accommodate a flexible fabric mop element, a chain connected with said frame contiguous to one end of said base member, the opposite end of said base member being upwardly bent toward said staff, a lever arm pivotally mounted upon the upwardly bent end of said base member and forming a continuation thereof, a hook carried by said lever arm and with which said chain is adapted to be engaged after being flexed about the upwardly bent end of said base member, and a detachable connection between the upper end of said lever arm and staff.

1,454,545. METHOD AND MACHINE FOR BANDING ARTICLES IN TRANSIT. LEON E. LA BOMBARD and MELVIN H. SIDEBOTHAM, Chelsea, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed May 8, 1922. Serial No. 559,146. 12 Claims. (Cl. 93—93.)



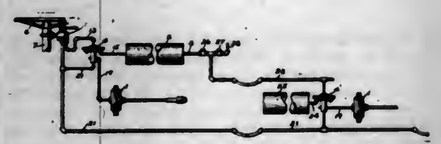
1. The method of facilitating the production of flat articles in the form of packages for shipment, consisting in placing the articles in groups upon a carrier and successively tying the groups with string while in motion on the carrier.

1,454,546. BURGLARPROOF GRIP. JOHN R. LANDIS, St. Louis, Mo., assignor of one-half to Frank H. Strott, St. Louis, Mo. Filed Nov. 7, 1921. Serial No. 513,269. 2 Claims. (Cl. 190—61.)



1. A burglar proof grip comprising a leather casing having a steel lining, a wrist band, and a flexible connection secured to the wrist band and adapted to pass through a portion of the grip and be secured at its free end to the wrist band.

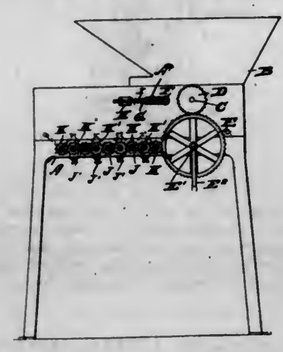
1,454,547. FLUID-PRESSURE BRAKE. GEORGE S. LANE, San Francisco, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1921. Serial No. 465,936. 13 Claims. (Cl. 303—26.)



3. In a fluid pressure brake, the combination with a brake cylinder, of a brake controlling valve device comprising means for controlling the supply of fluid to the brake cylinder and a flexible disk having its marginal portion unconfined and operated by fluid under pressure for actuating said means.

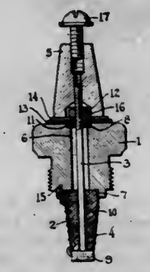
10. In a fluid pressure brake, the combination with a brake cylinder, of a pipe normally charged with fluid under pressure, a reservoir, a resilient disk subject to the opposing pressures of said pipe and the reservoir and adapted to be marginally flexed to permit the flow of fluid from said pipe to the reservoir, and means operated by the central flexing of the disk for establishing communication from the reservoir to the brake cylinder.

1,454,548. MACHINE FOR PULVERIZING AND CLEANING SOIL. CLARENCE D. LENNON, Detroit, Mich. Filed Sept. 18, 1922. Serial No. 588,787. 4 Claims. (Cl. 83—11.)



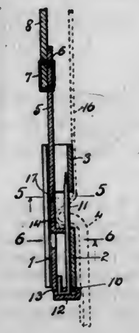
1. In a soil pulverizing machine, a hopper, a rotatable shaft provided with a plurality of teeth adapted to pulverize material in said hopper, means for rotating said shaft, a rotatable idler shaft fitted with teeth adapted to co-operate with the teeth of the first named shaft, said idler shaft being supported in suitable slotted ways, whereby it may be adjusted laterally in relation to the first named shaft, and yieldable means for maintaining said idler shaft in its adjusted relation to said rotatable shaft.

1,454,549. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDWIN N. LIGHTFOOT, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 24, 1917. Serial No. 198,197. 4 Claims. (Cl. 123—145.)



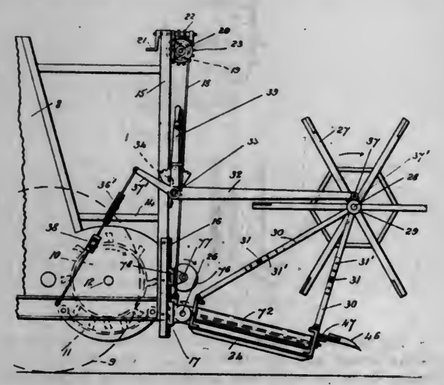
1. An ignition plug for heavy oil engines comprising a plug body having a single bore and being counterbored to provide a socket, a hollow insulating and heat absorbing support seated in said socket and comprising a plurality of superposed annular laminæ, a terminally threaded bolt of lesser diameter than said bore extending through said plug body and said support and having a head located beyond the latter and of a diameter not less than that of the adjacent portion of the same said support serving to space said bolt from the interior of said plug body, means co-operating with the threaded end of said bolt for clamping said laminæ firmly against said plug body and an ignition element coiled about said support and terminally secured to said plug body and said bolt for connection with a source of current.

1,454,550. GARMENT SUPPORTER. JOHN C. MABRY, Kansas City, Mo. Filed June 17, 1922. Serial No. 568,991. 11 Claims. (Cl. 24—158.)



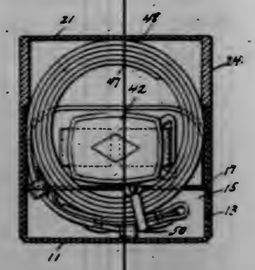
1. In a garment supporter, two members, one having means for attachment to wearing apparel, said members being longitudinally slidable one on the other, one of the members having a housing, and a longitudinally disposed pin attached to and movable with the other member and adapted to have its free end enter said housing, the pin carrying member being movable to and from a position in which the free end of the pin will be spaced apart from said housing, substantially as set forth.

1,454,551. HEADER. IRA J. MARRIAGE, Wichita, Kans. Filed June 30, 1921. Serial No. 481,568. 8 Claims. (Cl. 56—125.)



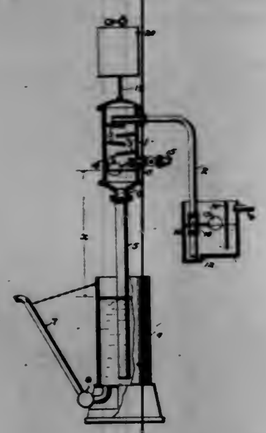
3. The combination, with the casing of a threshing machine, and vertical guides secured at the front end thereof; of slides engaging with the said guides, a header frame connected to the said slides and having cutting mechanism at its front part, adjusting mechanism for sliding the said slides simultaneously, an endless conveyer mounted in the header frame and adjustable vertically with it and operating to discharge the cut heads into the said casing, a feed roller supported by the said casing and arranged over the rear portion of the said conveyer, and means for adjusting the position of the said feed roller vertically and independently of the vertical adjustment of the said conveyer.

1,454,552. DISPLAY DEVICE. BONNER D. MASON, Attleboro, Mass., assignor to The Mason Box Company, a Corporation of Massachusetts. Filed Jan. 31, 1922. Serial No. 533,086. 2 Claims. (Cl. 206—46.)



1. In an advertising display, a base, a back, end walls, a front wall comprising a fixed lower section and a dependable flap flexibly connected to the top of the fixed section, a belt coil on the base intermediate the four walls and facing the front wall, flexible fingers on the flap, a belt clasp engaged by the fingers centrally of the coil and a cover slidably engaging the walls and supporting the flap.

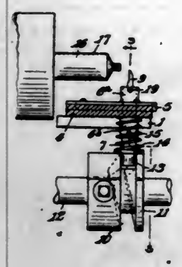
1,454,553. HEAT TREATMENT OF LIQUID. WILHELM MAUSS, Johannesburg, Transvaal, South Africa, assignor to Continuous Centrifugals Limited, Johannesburg, Transvaal Province, Union of South Africa. Filed Mar. 23, 1921. Serial No. 454,956. 2 Claims. (Cl. 236—1.)



1. The process of heat treating liquid which consists in passing steam and the liquid into a closed vessel and causing them to come into physical contact within said vessel, passing the treated liquid from the vessel through a barometric pipe, and controlling the admission of steam to the vessel according to the height of the liquid column in said pipe.

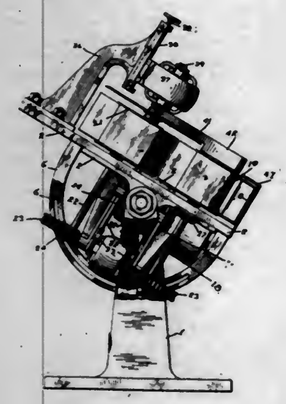
1,454,554. THREAD-CHASING MECHANISM. ARTHUR R. MITCHELL, Bridgeport, Ohio. Filed Dec. 7, 1921. Serial No. 520,538. 4 Claims. (Cl. 82—5.)

1. In a device for threading the necks of collapsible tubes, the combination with a rotary mandrel for carrying a tube, of a supporting stand, guide members carried by said stand, a slide arranged for travel on said guide members, a tool holder having vertical movement through said slide, a rotatable cam having a peripheral groove in which the lower end of said holder is received and by which the latter and said slide are reciprocated in a



direction parallel to the axis of said mandrel, resilient means normally holding said tool holder depressed, and means coacting with said cam whereby said tool holder is maintained elevated against said resilient means during a portion of the reciprocating movement.

1,454,555. ASPARAGUS CUTTER. NIELS NIELSEN, Pittsburg, Calif. Filed July 18, 1922. Serial No. 575,906. 8 Claims. (Cl. 146—82.)

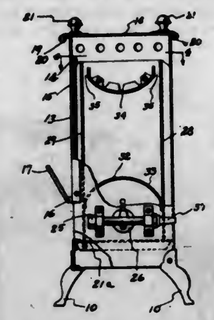


1. An asparagus cutter comprising a pair of parallel conveyors having oppositely disposed flexible pockets arranged to engage and carry bunches of asparagus stalks therebetween and discharge the same; and a cutting element arranged within the path of said bunches and arranged to sever the ends thereof.

1,454,556. HEATER. GUSTAV NIETZ, Richmond Hill, N. Y. Filed Apr. 18, 1922. Serial No. 555,136. 2 Claims. (Cl. 126—85.)

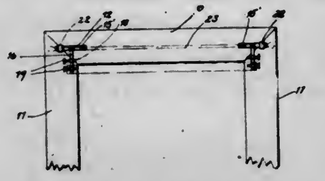
1. A device of the class described comprising an outer body, a detachable front wall on said body, a hinged door pivoted at the lower end of said front wall, a bottom secured in said body, a fuel distributor pipe mounted thereon, a cover member secured to the upper end of said

body, a heat distributor seated on said bottom and having openings at its lower end and means mounted within said



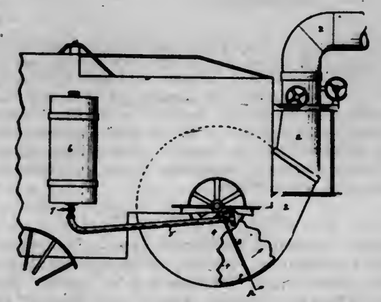
distributor for concentrating the heat waves and means for distributing the same at the upper portion of said body.

1,454,557. COMBINATION CURTAIN AND SHADE HOLDER. OSWALD NIETZEL, Elizabeth, N. J. Filed Sept. 9, 1921. Serial No. 499,427. 1 Claim. (Cl. 156—24.)



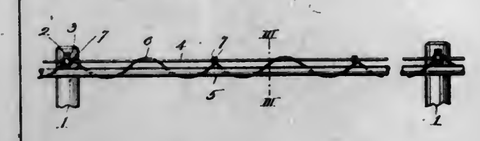
A combined curtain and shade holder comprising a base plate adapted to be secured to a window sash, said plate bearing recesses on its underside, a pole support adapted to engage interchangeably in any of said recesses, a plate member adapted to slidably and interchangeably engage in any of said recesses, said plate member having on its underside similar recesses, shade support slidably engaging in the recesses of said plate member, a resilient plate member secured to the underside of said plate member with its ends respectively overlying the recesses in said plate member and yieldably engaging the underside of said shade support to retain the latter in said recesses.

1,454,558. STRAW SALTING AND FERTILIZING. WILLIAM G. PATON, Toronto, Ontario, Canada. Filed Jan. 16, 1922. Serial No. 529,764. 3 Claims. (Cl. 99—2.)



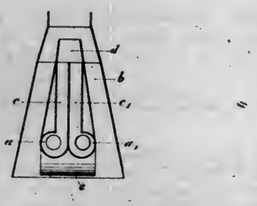
3. In a straw salter and fertilizer in combination with a threshing machine equipped with a pneumatic straw stacker a gravity supply tank having suitable pipe connection for conveying liquid to the inside of the fan at a point below the stacker fan shaft and to the rear of the vertical centre line of said fan housing being approximately at a point forming an angle of about 45 degrees with the centre of the fan shafting and the vertical centre line of same.

1,454,559. CABLE HANGER. WILLIAM J. PEACH, Kansas City, Mo. Filed Mar. 17, 1919. Serial No. 283,225. 2 Claims. (Cl. 248—33.)



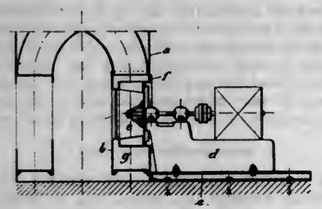
1. The combination with a span wire and a cable of a hanger in the form of a continuous unchanging spiral of large diameter relative to and fitting around and suspended at an intermediate point from the span wire, and terminating at its extremities in oppositely-projecting downwardly-opening hooks fitting down over and upon the span wire eccentrically of the axis of the spiral; the hanger being so constructed that it may be screwed into position while simultaneously embracing both the span wire and the cable.

1,454,560. CHIMNEY DRAFT DEVICE WITH TWO FANS. EMILE PRAT, Paris, France, assignor to Société des Cheminées Louis Prat à Tirage Induit, Paris, France. Filed Apr. 27, 1921. Serial No. 464,950. 9 Claims. (Cl. 110—162.)



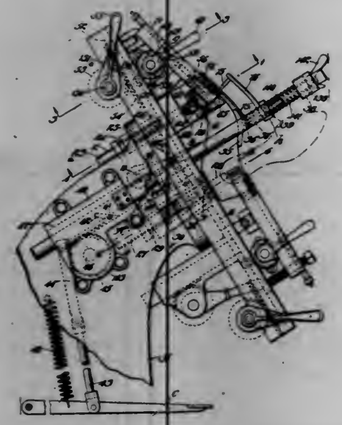
1. In combination, a chimney and a draft device associated with said chimney, said draft device comprising a plurality of fans having separate inlets arranged side by side.

1,454,561. CHIMNEY DRAFT DEVICE. GEORGES JULES PRAT, Paris, France. Filed Apr. 27, 1921. Serial No. 464,947. 8 Claims. (Cl. 110—162.)



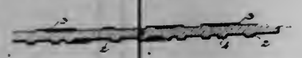
1. In combination, a chimney, a discharge spiral secured in said chimney, a fan rotor arranged in said spiral, and means wholly supporting said rotor independently of said chimney.

1,454,562. ASSEMBLING AND LASTING MACHINE. JAMES H. REED, Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Aug. 16, 1919. Serial No. 317,930. 17 Claims. (Cl. 12—14.)



1. In a machine of the character described, a longitudinally elastic lasting member, supporting means therefor and a yielding centre gripper acting through said elastic lasting member to press the lasting member forcibly against the shoe along a predetermined line during the lasting operation.

1,454,563. TRANSPARENT SIGN. FERDINAND C. ROBERTS, Detroit, Mich. Filed Sept. 25, 1922. Serial No. 590,482. 2 Claims. (Cl. 40—136.)



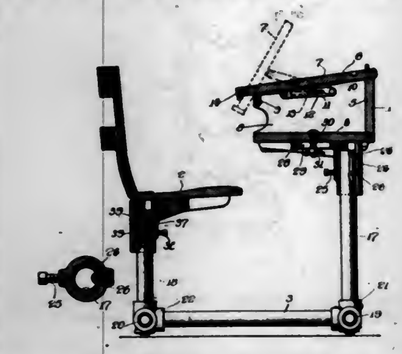
1. A sign comprising a sheet of translucent material having a design formed in relief upon the front face, the portion in relief differing in color from its surrounding portion by reflected light, the sheet having a design in relief on its rear face, the portion in relief being translucent and the surrounding portion being opaque whereby the design in relief upon the rear face is visible from the front when illuminated from the rear.

1,454,564. PROCESS OF PRODUCING ZIRCONIUM DIOXIDE. OTTO RUFF, Breslau, Germany. Filed Nov. 18, 1922. Serial No. 601,879. 2 Claims. (Cl. 23—13.)

1. A process of treating zirconium ores, which comprises strongly heating the ore with a carbonate of an alkali metal, the mixture containing for each molecular equivalent of zirconium oxid about .75 to 2 molecular equivalents of said carbonate, and for each molecular equivalent of alumina and silica, about 1 to 1.5 molecular equivalents of said carbonate, and thereafter dissolving the water-insoluble zirconium compounds in an acid.

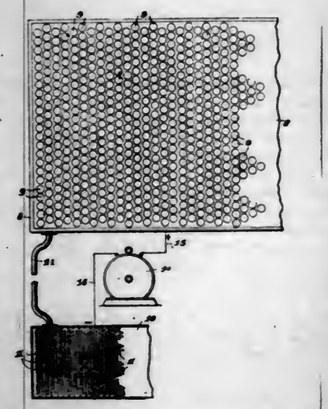
1,454,565. COMBINED DESK AND SEAT. AUGUSTINE C. SANFORD, Chicago, Ill. Filed Aug. 7, 1920. Serial No. 401,879. 4 Claims. (Cl. 155—124.)

1. The combination of a tubular upwardly extending supporting member and a desk box having a socket mounted on said member, and means for fastening the socket and supporting member in vertical adjustment, said socket member being provided with a longitudinally extending recess formed in its inner face and extending only part way through same and the supporting member being provided with lateral projections adapted to fit in said recess, whereby relative rotation is prevented while



relative vertical adjustment is permitted, said projections on said supporting member comprising adjustable screws passing through the wall of said tubular and adjustable member from inside the same, and a set screw to hold the desk box in vertical adjustment.

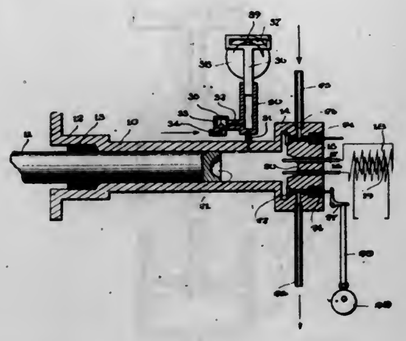
1,454,566. ELECTRICAL DISPLAY DEVICE. CHARLES E. SMITH, Johnstown, Pa. Filed Sept. 8, 1921. Serial No. 499,125. 3 Claims. (Cl. 177—350.)



3. An electrical display device including a multiplicity of incandescent lamps and a stationary table equipped with a similar number of contacts, said table and contacts forming a substantially flat surface, an electrical circuit including said lamps and contacts, a flexible conductor engageable with any one or all of said contacts to close the circuits and light the lamp or lamps corresponding to the contacts engaged, and scribing means for applying the conductor to the contacts.

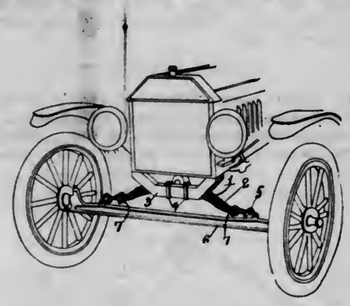
1,454,567. METHOD AND APPARATUS FOR PRODUCING A CHEMICAL UNION BETWEEN HYDROCARBON GASES AND HYDROCARBON OILS. HIRAM BRUCE SNYDER, Fullerton, Calif. Filed Dec. 27, 1921. Serial No. 524,973. 10 Claims. (Cl. 204—31.)

1. The method of uniting gases of the methane series with hydro-carbon oils which consists in subjecting a volume of methane gas to a high degree of compression, then introducing a quantity of hydro-carbon oil into said



compressed gas, and then passing an electrical arc through said gas and oil while in its co mingled and compressed state.

1,454,568. VEHICLE SPRING. HOWARD TAYLOR, Philadelphia, Pa., assignor to Taylor Spring & Equipment Company, Philadelphia, Pa. Filed Feb. 11, 1921. Serial No. 444,202. 2 Claims. (Cl. 267—53.)

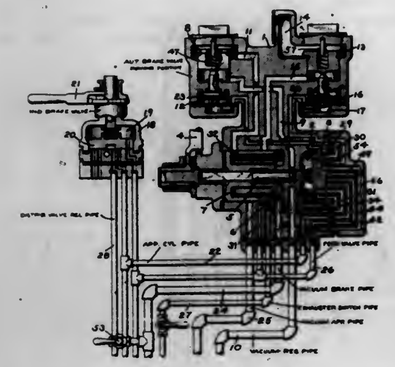


1. The combination with the axle and body of a vehicle, of a bowed spring having its terminals connected to the axle and having its middle portion connected to the body, inverted U-shape clips attached to said spring intermediate its center portion and terminals, and rollers detachably and rotatably mounted between the depending ends of said clips, whereby the strain on the terminal ends will be relieved when said ends are suddenly flexed upward.

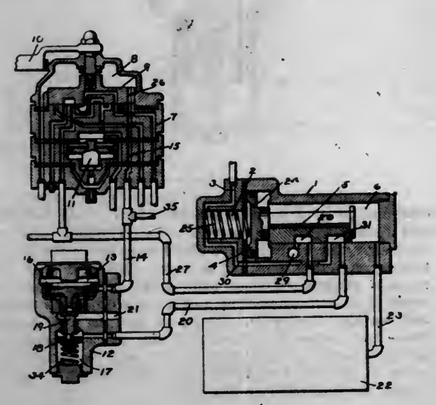
1,454,569. BRAKE-VALVE DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 22, 1921. Serial No. 463,700. 9 Claims. (Cl. 303—4.)

1. In a vacuum brake, the combination with a vacuum brake pipe, of a source of compressed fluid, a valve device operated by fluid under pressure from said source for supplying fluid to the vacuum brake pipe, and manually operated means for controlling the fluid pressure on said valve device.

5. In a vacuum brake, the combination with a vacuum brake pipe and a vacuum application pipe, of a valve device for supplying fluid to said pipes and a manually operated valve for establishing communication for supplying fluid from said valve device to the vacuum brake pipe in one position and to the vacuum application pipe in another position.



1,454,570. AUTOMATIC TRAIN-CONTROL DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 5, 1922. Serial No. 566,026. 3 Claims. (Cl. 303—21.)

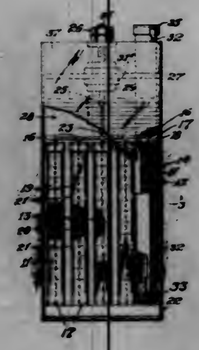


1. In a train speed control apparatus, the combination with an application valve device comprising a piston and valve, of a release valve device comprising a valve for controlling the venting of fluid from said piston, a release piston for operating said valve, and a brake valve device having means for controlling the fluid pressure on said release piston.

1,454,571. STORAGE BATTERY. WILLIAM H. THORPE, Mount Vernon, N. Y. Filed Aug. 22, 1921. Serial No. 494,221. 4 Claims. (Cl. 204—29.)

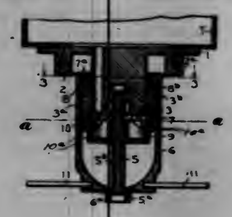
1. In a storage battery, a container, a container cover, a terminal, electrolyte, and means for preventing the electrolyte from creeping up said terminal comprising a cup-like element associated with said terminal, gasket means between said element and said container cover

whereby a sealed chamber is formed, an acid resisting grease sealed in said chamber and means encircling said



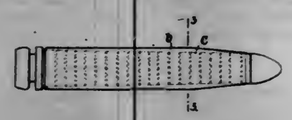
terminal for clamping said cup-like element against said gasket and container cover to maintain said chamber sealed.

1,454,572. LIQUID MEASURING AND DISPENSING DEVICE. ARTHUR B. WALTERS, Kansas City, Mo. Filed June 16, 1921. Serial No. 478,045. 5 Claims. (Cl. 221—114.)



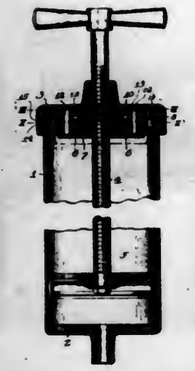
1. In a liquid measuring and dispensing apparatus the combination of a member attached to a liquid container and having a fluid passage, a vessel slidably connected with said member to receive liquid from said passage, and having an outlet opening, a valve connected with said member adapted to close said outlet opening when the vessel is in lowered position and a cup within said member and movable therewith adapted to seal the said passage when the vessel is raised and the valve opened, and means whereby air is admitted into said vessel when the valve is opened, and air is shut off when the valve is closed, substantially as described.

1,454,573. WOUND PACKAGE. SAMUEL A. BARBOUR Paterson, N. J. Filed July 3, 1922. Serial No 572,513. 2 Claims. (Cl. 242—161.)



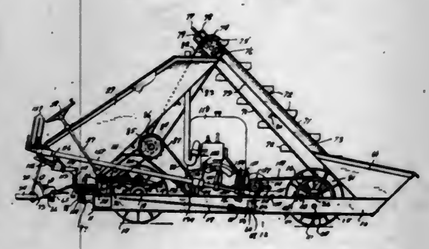
1. A wound package including an elongated core and a traverse-wound mass of windings of a hard, smooth, flat and uniformly thick filament thereon, said mass having a thickness so little in respect to that of the core as to be but a relatively thin shell thereon.

1,454,574. GREASE GUN. CHARLES E. BOWN, Dayton, Ohio. Filed May 1, 1920. Serial No. 378,209. 16 Claims. (Cl. 221—79.)



1. In combination with a cylinder, a piston in the cylinder and a screw-threaded member for operating the piston, of screw-threaded means for engaging the screw-thread of the operating member adapted to be moved out of engagement therewith to release the same, means for detachably connecting the inner end of the operating member with the piston, and means within the cylinder for moving said connecting means out of engagement with said operating member to release the operating member from the piston.

1,454,575. CHIP DISTRIBUTOR. DAVID C. BOYD, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Feb. 6, 1922. Serial No. 534,481. 24 Claims. (Cl. 94—44.)

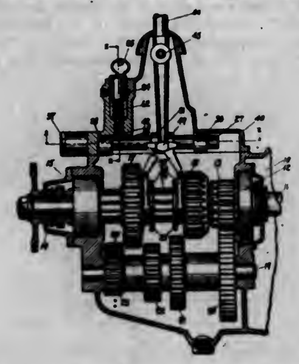


1. A motor operated distributing machine having forward steering wheels and rear driving wheels, a downwardly discharging distributing hopper mounted upon the machine forward of the steering wheels, and means disposed at the forward end of the machine controlling the motor, the steering wheels and the distribution from said hopper.

1,454,576. TRANSMISSION-LOCK MECHANISM FOR AUTOMOBILES. EVERETT G. CLEMENTS, Washington, D. C., assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 23, 1919. Serial No. 325,674. 10 Claims. (Cl. 74—39.)

10. In a device of the character described, a pair of slidable shifting fork members having spaced notches therein, a pair of detents extending in opposite directions

from a common pivotal center intermediate said members, means limiting the relative angular movement of



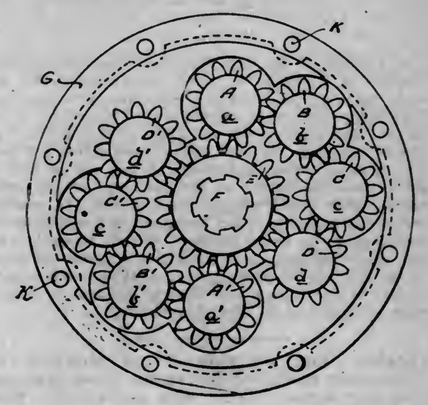
said detents, and means for shifting said pivotal center whereby either one or the other of said members may be shifted or both of said members may be locked.

1,454,577. ATTACHMENT FOR SEAT COVERS. JAMES P. EYSTER, Indianapolis, Ind., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 25, 1916. Serial No. 80,380. 2 Claims. (Cl. 155—180.)



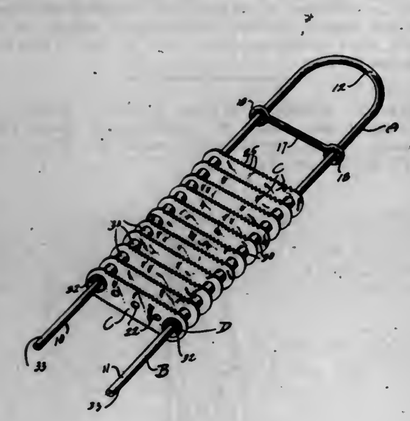
1. In combination, a seat-frame, a cover for encasing said frame, hooks secured to the inner surface near the lower edge of said cover for detachably securing the latter to the lower edge of the seat frame and integral necks on said hooks adapted to project through the cover for securing said hooks to said cover.

1,454,578. DIFFERENTIAL GEARING. MAXIMILIAN J. L. TOWLER, Detroit, Mich. Filed Apr. 19, 1919. Serial No. 291,223. 6 Claims. (Cl. 74—99.)



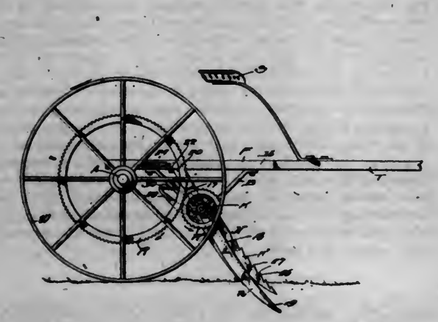
1. In a differential gearing, a driving member, driven members, gearing connecting said members, comprising gears supported in the driving member by journaled portions, the diameters of which have such a relation to the diameters of the pitch circles of the last mentioned gears that a preponderance of the power delivered to the driving member will be transferred to the driven member offering the greater resistance to rotation.

1,454,579. GRATER. THOMAS FITZ PATRICK, Cuyahoga Falls, Ohio. Filed July 3, 1922. Serial No. 572,574. 4 Claims. (Cl. 146—15.)



1. A greater comprising a one piece U-shaped frame including side rod like portions, blades apertured at their ends to receive the side rod like portions of said frame, and means to maintain said blades in uniform spaced relation upon said frame.

1,454,580. GRASS-DIGGING IMPLEMENT. WALTER LEVI FOSS, Windom, Minn. Filed June 1, 1920. Serial No. 385,553. 7 Claims. (Cl. 55—9.)



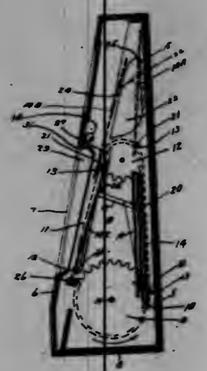
1. An implement of the character described comprising, a frame, wheels supporting the frame, a crank shaft operable by said wheels, digging units supported on the

shaft for effecting a loosening of the soil, and ejecting units operable by said shaft and working within and guided by said digging units for removing rhizomes from the loosened soil.

1,454,581. PROCESS OF TREATING VEGETABLE FIBER. HOWARD CHARLES FUELLER, Jacksonville, Fla. Filed July 12, 1919, Serial No. 310,431. Renewed Nov. 29, 1922. 4 Claims. (Cl. 92—15.)

1. A process of treating vegetable fiber, as for instance Spanish moss, which consists in the chemical removal of the plant juices from the fiber, the dyeing of the fiber, and the treatment of the fiber with a solution for stiffening and glossing the same, the chemical removal of the plant juices consisting in subjecting the fiber to acid and alkaline baths.

1,454,582. SIGN-DISPLAYING DEVICE. WILBUR A. GARRITT and JAMES H. ENGEBRIGTSON, Sioux City, Iowa. Filed July 19, 1920. Serial No. 397,251. 1 Claim. (Cl. 40—79.)

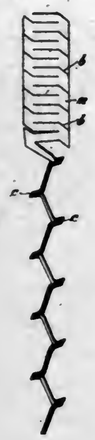


A display device consisting of a suitable frame, two pairs of wheels positioned one pair above the other, endless chains interconnecting the pairs, a rod interconnecting the chains, rearwardly inclined rails carried by the frame, display cards normally positioned one in front of another and provided with lateral projections slidably engageable with the rails to normally support the cards, a support for the rearmost card, hooks on the backs of the cards engageable by the rod, whereby the cards are successively carried upwardly and forwardly and then permitted to gravitate, a front support to stop gravitation of the cards for display, and permit disengagement of the rod from the hooks and means for preventing rearward tilting of the cards when displayed, the front support and said means being so positioned and related that each gravitating card will engage and force the preceding cards from said front support and permit its projections to slidably engage the rails.

1,454,583. PROCESS OF PRODUCING MAGNESIUM NITRATE. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor to A/S De Norske Saltverker, Bergen, Norway. Filed Nov. 11, 1920. Serial No. 423,392. 2 Claims. (Cl. 23—13.)

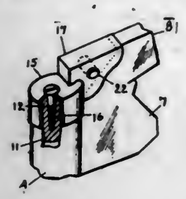
1. A process of producing magnesium nitrate which comprises treating olivine and serpentine with nitric acid of 25–40 per cent at a temperature of 50–90° C., whereby the silicic acid is precipitated in an easily filterable state.

1,454,584. BARBED WIRE AND THE LIKE. RICHARD GÖSSER, deceased, by Adolf Gösser, administrator, Munich, Germany, assignor, by mesne assignments, to the Firm "Stachelband" G. m. b. H., Munchen-Pasing, Germany. Filed Sept. 7, 1920. Serial No. 408,754. 2 Claims. (Cl. 256—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A fence strand consisting of a metallic band provided at either side with a series of slits extending inwardly at an acute angle, and intermediate slits, the inner extensions of the said slits overlapping each other.

1,454,585. STORM SHIELD. CHARLES F. GREEN, Toledo, Ohio, assignor to The Willys-Overland Co., Toledo, Ohio, a Corporation of Ohio. Filed June 5, 1916. Serial No. 101,663. 3 Claims. (Cl. 296—93.)

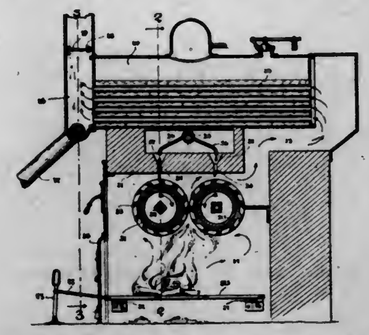


1. A device of the class described comprising the combination of a supporting frame; open-sided frames pivotally supported in said supporting frame with their open sides facing each other; transparent shield sections carried by said open-sided frames and disposed so that the edges of said shields at the open sides of said frame will overlap; a clip member connecting the free end of each of said open-sided frames to the free edge of the transparent shield carried thereby, each of said clip members comprising a tubular socket embracing and secured to the free end of the frame member; and an integral, laterally projecting rectangular socket, embracing the corner of the free edge of said transparent shield; and a buffer carried by one of each pair of co-acting clips in position to be contacted by the other of said clips.

1,454,586. FURNACE FOR STEAM BOILERS FOR BURNING RESIDUAL MOLASSES. HUGH ALEXANDER GRIFFIN, Lindsay, Calif. Filed Dec. 6, 1921. Serial No. 520,379. 6 Claims. (Cl. 110—22.)

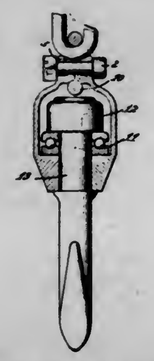
4. In a molasses burning furnace having a fire box, molasses feeding means including rotatable cylinders in

the upper portion of the fire box having peripheral pockets in which the molasses is exposed to the action of



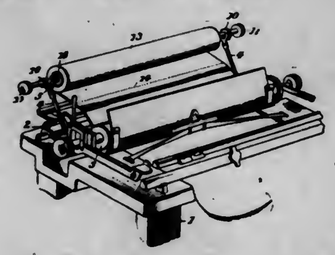
the heat of the fire box before it is finally dropped into the fire.

1,454,587. COUPLING. WALTER A. GUNN, Lisbon, Ohio, assignor to Wright Manufacturing Company, Lisbon, Ohio. Filed Oct. 25, 1922. Serial No. 596,762. 1 Claim. (Cl. 59—95.)



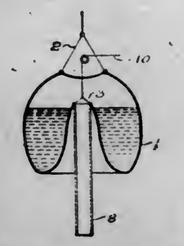
In a basket coupling for chain hoists and the like, opposed similar members having registering openings in one end for the reception of a hooked shank and registering openings in the other end for receiving a chain link, means for holding the members together firmly, and means for connecting the members to the chain link comprising a bolt extending through the members and link.

1,454,588. TYPEWRITER ATTACHMENT. HARRY B. KANEEN, Papineau, Ill. Filed Jan. 19, 1921. Serial No. 438,467. 7 Claims. (Cl. 197—133.)



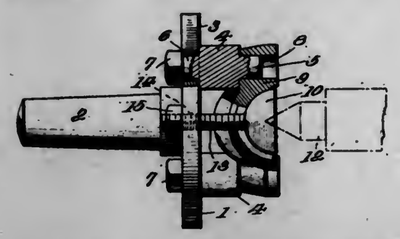
1. An attachment for use with typewriters or similar carriages, comprising a supporting means, a shaft rotatably mounted in said supporting means, a paper roll on said shaft, and means for removably locking said roll on said shaft.

1,454,589. BALLAST BAG FOR AIR VESSELS. FRANZ FRIEDRICH KRUCKENBERG, Heidelberg, Germany, assignor to Luftfahrzeugbau Schütte-Lanz, Mannheim-Rheinau, Germany. Filed Aug. 16, 1922. Serial No. 582,135. 4 Claims. (Cl. 244—1.)



1. In a ballast receptacle for airships, a bag provided with a bottom discharge opening and means located interiorly of the bag connected to the bottom thereof for vertically elevating and lowering the said bottom, thereby regulating the quantity of ballast discharged through said discharge opening.

1,454,590. ATTACHMENT FOR LATHES OR SIMILAR MACHINES. RALPH K. LUSE, Oxford, Iowa. Filed May 31, 1921. Serial No. 473,735. 8 Claims. (Cl. 82—40.)



1. A device of the kind described comprising a head adapted to be attached to a revolving member of a machine, positioning pins adjustably mounted within said head for supporting a bearing cap and means for holding said bearing cap in position upon said pins.

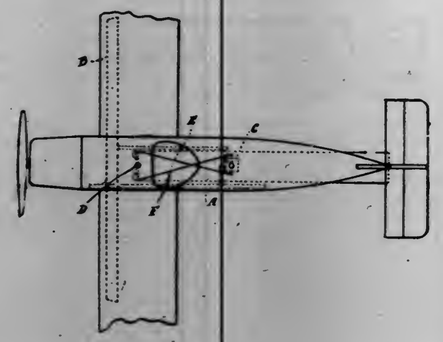
1,454,591. METHOD OF TREATING GASES. ADRIAAN NAGELVOORT, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1921. Serial No. 448,864. 9 Claims. (Cl. 23—10.)

1. The process of treating gases for use in the synthesis of ammonia which comprises passing the gases to be synthesized into contact with a cyanamid of a base forming element to remove impurities therefrom preparatory to synthesizing ammonia from said gases.

1,454,592. WIRELESS DIRECTION-FINDING MEANS FOR AND METHOD OF PILOTING AIRCRAFT. HAROLD ROBERT CORBY VAN DE VELDE and JOHN MEGARRY FURNIVAL, Bromley, England, assignors to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Jan. 7, 1921. Serial No. 435,718. 6 Claims. (Cl. 250—11.)

3. The combination with an aircraft, of a loop aerial around the wings perpendicular to the fuselage, a sec-

ond loop aerial parallel to the fuselage, a radiogoniometer associated with said aerials having a movable coil con-



nected to the rudder of the aircraft and a detector associated with the search coil.

1,454,593. METHOD OF PURIFYING MINERAL OILS. EDWARD E. ARNOLD, Coventry, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 24, 1921. Serial No. 447,568. 11 Claims. (Cl. 196—26.)

1. In a process for purifying mineral oil, the step which comprises treating a mass of said oil with liquid anhydrous ammonia in the presence of an alkalinous metal oxygen bearing compound which serves as an oxidizing agent thus causing the sulfur present in said oil to combine with said ammonia under oxidizing conditions to form an ammonia-sulfur-oxygen compound.

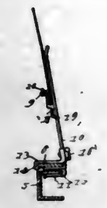
1,454,594. ADJUSTABLE COUPLING FOR MAGNETO DRIVES. GLENN D. ANGLE, Dayton, Ohio. Filed Aug. 1, 1921. Serial No. 489,101. 1 Claim. (Cl. 74—28.)



In a device of the class described, the combination of a sleeve having an abutment flange, a threaded portion, and a smooth cylindrical surface between and flange and threaded portion a driving gear loosely mounted on said smooth surface for partial rotative movement, a nut on said threaded portion to retain the driving ear in position, and means for adjusting the driving gear axially around the sleeve embodying a lug extending laterally from the gear, arms extending tangentially from the sleeve and lying on opposite sides of said lug, and adjusting screws passing through said arms and bearing at their extremities against said lug.

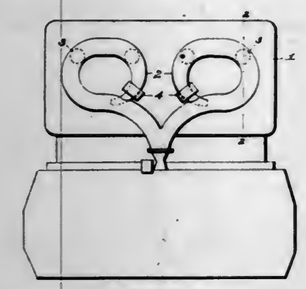
1,454,595. HOOD SUPPORT. ARTHUR E. ASHLEY, Boise, Idaho. Filed June 3, 1922. Serial No. 565,674. 4 Claims. (Cl. 180—69.)

1. In a hood support, a body portion having an extension forming a clip operative to embrace the side frame of an automobile and to engage molding thereon, a clamping element slidable on the said body above the clip and adapted to engage and partially embrace the molding,



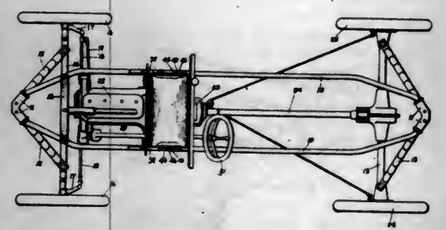
means for holding the clamping member in different positions of adjustment, and a hood engaging member carried by the body.

1,454,596. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. GUY M. BALL, Spokane, Wash. Filed Apr. 18, 1921. Serial No. 462,192. 8 Claims. (Cl. 123—52.)



1. In an intake manifold for use in internal combustion engines, a means for minimizing pulsation of the explosive gases passing therethrough, said means comprising an extended portion of said manifold of reduced diameter projecting into the interior of said manifold at a point between the carburetor jet and any cylinder supplied by said manifold.

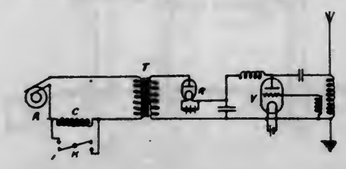
1,454,597. MOTOR VEHICLE. EDWARD HALE BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Sept. 12, 1917, Serial No. 190,966. Divided and this application filed Jan. 6, 1919. Serial No. 269,805. 19 Claims. (Cl. 180—54.)



1. In a motor vehicle, the combination of a vehicle frame comprising a pair of longitudinally extending side bars, a dash board and an instrument board carried by

said frame, a body carried by said frame and a fuel tank within said body and between said dash board and said instrument board and supported by said frame independently of said body.

1,454,598. WIRELESS TRANSMITTER. WILLIAM THEODORE DITCHAM, Twickenham, England, assignor to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Dec. 18, 1920. Serial No. 431,582. 3 Claims. (Cl. 250—10.)



1. In a wireless transmitter, the combination of an oscillating valve, a circuit containing a source of alternating current supply for said valve, a rectifier interposed between said source of supply and said valve, an impedance connected in said circuit, and means for short circuiting said impedance.

1,454,599. PROCESS OF AMMONIA SYNTHESIS AND CATALYST THEREFOR. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 28, 1921. Serial No. 456,401. 26 Claims. (Cl. 23—21.)

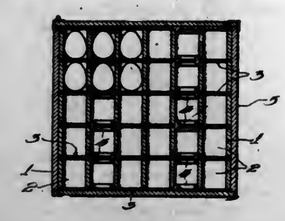
16. The process of producing ammonia which comprises synthesizing said ammonia from its elements through the intermediacy of a catalyst which includes a mixture of alkalinous metal cyanids which have been treated to effect their conversion into active catalytic material.

1,454,600. GEAR-SHIFT LEVER AND DUST CAP. COLVIN L. JOHNSON, St. Louis, Mo., assignor to Johnson Automobile Lock Co., a Corporation of Illinois. Filed June 12, 1922. Serial No. 567,841. 8 Claims. (Cl. 74—39.)



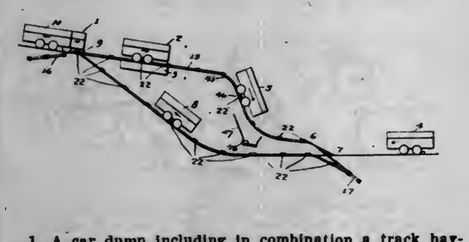
1. The combination with a support, of a gear shift lever supported thereon, a hood on said support, a sleeve locked on said lever, a cap resting on said hood and projecting into said sleeve, and means in said sleeve for resiliently holding said cap against said hood.

1,454,601. SHIPPING CONTAINER FOR EGGS AND OTHER FRAGILE ARTICLES. LEOPOLD OXHANDLER, Chicago, Ill. Filed June 11, 1921. Serial No. 476,778. 7 Claims. (Cl. 217—26.)



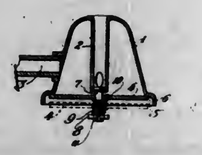
1. In combination, a plurality of slabs superposed upon each other and having a plurality of registering holes extending through the same, comparatively thin flats lying between said slabs and interlocked with the same.

1,454,602. CAR HANDLING AND DUMPING SYSTEM. RICHARD PEALE, St. Benedict, Pa., assignor to Rembrandt Peale, St. Benedict, Pa. Filed Sept. 12, 1919. Serial No. 323,264. 31 Claims. (Cl. 214—62.)



1. A car dump including in combination a track having relatively flat and steep parts, the flat part leading into the relatively steep part where the car is dumped and means controlled by the car for controlling the speed of the car as it enters the steep part and is dumped.

1,454,603. BUBBLING DRINKING FOUNTAIN. JAMES E. PLEW, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,148. 15 Claims. (Cl. 299—9.)

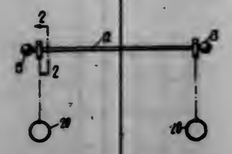


1. In a device of the character described, a receiving chamber having an inlet and two outlets, one of the outlets being a constantly-opening drinking outlet, and an inwardly-closing check valve controlling the other outlet.

1,454,604. PROCESS OF MAKING GLYCOL. WOATH H. RODEBUSH, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 28, 1919. Serial No. 307,432. 7 Claims. (Cl. 260—156.5.)

7. The process which comprises making glycol by subjecting glycol diacetate and alcohol to a catalyst of an acid character with the application of heat.

1,454,605. CURTAIN-ROD BRACKET. LOUIS G. STANAD, Chicago, Ill. Filed July 7, 1921. Serial No. 482,990. 3 Claims. (Cl. 156—22.)



2. A bracket of the character described, comprising an arm, a member of U-shaped cross section secured to said arm, a companion member normally abutting at its upper end with said first named member and defining therewith an aperture for the reception of a curtain supporting element, resilient means interposed between said members to maintain the same closed, a rod secured to said companion member and below said aperture, a holding member secured to the free end of said rod, a companion member secured to said second named holding member, and means for maintaining said second pair of members in closed position.

1,454,606. PAPER-MAKING MACHINE. JOHN D. TOMPKINS, Valatie, N. Y. Filed Apr. 6, 1921. Serial No. 459,032. 12 Claims. (Cl. 92—49.)



1. A paper making machine comprising an upper couch roll carrying a felt apron, a lower couch roll carrying a forming wire, said upper couch roll being located in advance of and out of contact with said lower couch roll and being adapted to press the felt apron into contact with the paper web carried by the forming wire.

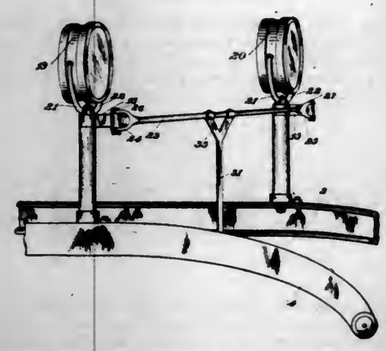
1,454,607. COLLAR ATTACHMENT. ANDRÉ VARAUD, La-Capite-Vesenaz, near Geneva, Switzerland. Filed Mar. 31, 1921, Serial No. 457,454. Renewed Oct. 14, 1922. Serial No. 594,659. 2 Claims. (Cl. 24—73.)



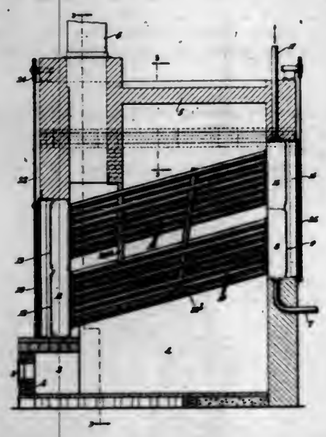
1. A collar attachment comprising buttons, shanks connected to and extending from the said buttons and bent at their upper ends so as to extend toward the said buttons in a loop or bow which lies across the said shanks and acts to yieldingly maintain the buttons in position in a collar.

1,454,608. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. BERTRAM WAITE, Galt, Ontario, Canada. Filed Sept. 26, 1921. Serial No. 503,292. 2 Claims. (Cl. 240—62.)

1. The combination with the chassis of a motor vehicle, of a pair of standards mounted thereon, each said standard comprising a bolt substantially mounted to the channel beam of the chassis, a sleeve over the said bolt, a bushing supporting the lower terminal of the said sleeve and substantially mounted on the said channel beam, a lever arm extending from the upper terminal of the said sleeve, a yoke supported on the said lever arm, the said yoke supporting a headlight, a transverse rod having bifurcated brackets on the outer terminals thereof engageable with the outer terminals of the said lever arms and means embodying a vertical member bifurcated at its ends co-operating between the said transverse rod and the king pins of a steering gear for the purpose as set forth.



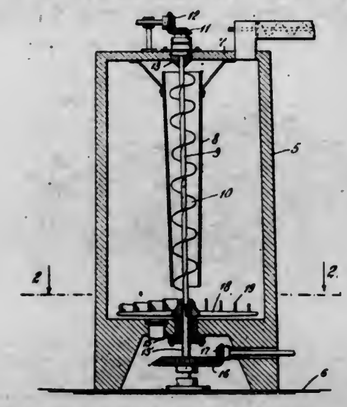
1,454,609. APPARATUS FOR USE IN THE MANUFACTURE OF ALDEHYDES. ERNEST J. WINTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 24, 1918. Serial No. 268,196. 12 Claims. (Cl. 260—173.)



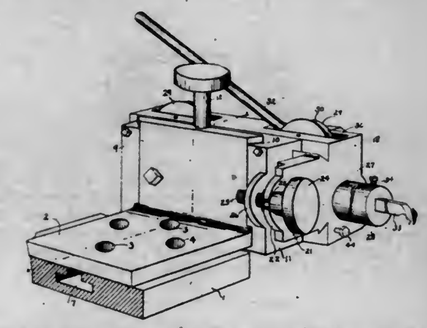
10. In combination, a set of inclined tubes provided on the interior thereof with catalytic material, chambers connected to the ends of the tubes, a second set of inclined tubes in advance of the first set, chambers connected to the ends of the second set, connecting passages between the chambers at the same ends of the tubes, and means to heat the tubes.

1,454,610. BLEACHING PULP AND APPARATUS THEREFOR. ROBERT B. WOLF, New York, N. Y. Filed Nov. 22, 1922. Serial No. 602,511. 16 Claims. (Cl. 8—2.)

1. In an apparatus for bleaching paper pulp, the combination of a tank and means to elevate the pulp in the tank and to discharge it at the top thereof, the space between the elevating means and the wall of said tank being greater in cross section at the bottom, whereby wedging action of the pulp as it moves downwardly in the space surrounding the elevating means is prevented.



1,454,611. COMBINATION DRILL AND TOOL HOLDER. THOMAS W. ADAIR, Humble, Tex. Filed June 30, 1921. Serial No. 481,490. 8 Claims. (Cl. 82—24.)



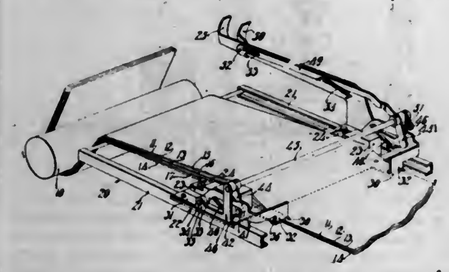
1. In a tool holder for lathes, a bracket, a block, means to adjust said block vertically relative to said bracket, comprising a screw fitting in the meeting faces of said bracket and holder and having threaded engagement with said block, means to prevent movement of said screw relative to said bracket, a holder having lateral screw adjustment relative to said block and means to clamp a tool holding bar in said holder.

1,454,612. CARBURIZING MATERIAL AND PROCESS OF MAKING SAME. LOUIS ABBY, East Chicago, Ind., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1921. Serial No. 444,145. 2 Claims. (Cl. 148—30.)

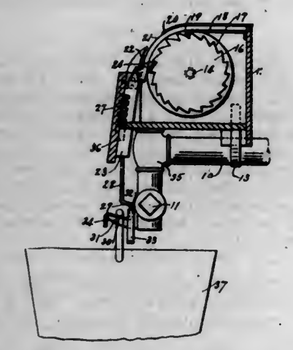
2. A carburizing material consisting of dried and shrunken briquettes composed of charcoal and an energizer with a binder.

1,454,613. TYPEWRITING MACHINE. J FRANK ALLARD, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 8, 1921. Serial No. 476,067. 3 Claims. (Cl. 197—126.)

1. In a continuous billing typewriting machine, the combination with a traveling carriage having a rearward extension, of a carbon-paper carriage mounted upon said extension, clamping means carried by said carbon-paper carriage for gripping piles of work-sheets therebetween at the extreme rear of the carbon-paper carriage, said means comprising lower jaws fixed to said carbon-paper carriage, one at each side thereof, and upper jaws pivotally mounted independently of each other for co-operation with said lower jaws, means for swinging each of said upper jaws independently of the other to effective position against the irrespective lower jaw to grip the work-sheets, and means common to the swinging jaws for swinging both jaws away from effective positions.

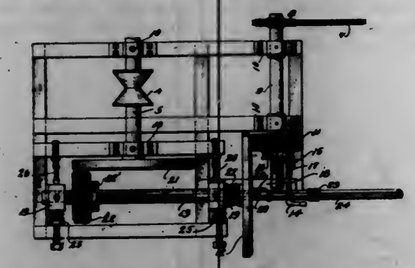


1,454,614. COUNTER AND REGISTER. HEINRICH ALTHAUS and JOHAN FANGMANN, Dyersville, Iowa. Filed Sept. 23, 1921. Serial No. 502,829. 1 Claim. (Cl. 234—94.)



A device of the character described comprising a casing adapted to be attached to the top of a discharge nozzle of gasoline tanks, means for securing said casing to said nozzle, rotating indicating means in said housing, a ratchet wheel integral with said indicating means, a substantially vertical rod, a grooved sliding member to which the upper end of said rod is secured, a forked upper end on said member, a finger pivotally secured between the forks at the upper end of said sliding member and adapted to engage the teeth of said ratchet wheel, means for limiting the movement of said finger in one direction, a coiled spring in the groove of said sliding member, a nose on said nozzle, the lower end of said rod being bent to engage the upper edge of said nose and the front edge of the same against action of said spring when a bucket of predetermined capacity is hung on said nose, a depending yoke through which said nose passes attached to said rod, means for preventing the rotation of said ratchet wheel in one direction, the removal of the filled bucket allowing an expension of said spring to operate said finger for rotating said ratchet wheel, and indicating means to visibly indicate the number of fluid units discharged from said nozzle.

1,454,615. FRICTIONAL GEARING. DANIEL APPLEGATE, Port Clinton, Ohio. Filed Mar. 24, 1922. Serial No. 546,249. 7 Claims. (Cl. 74—26.)



5. In variable speed mechanism of the class described, the combination of a driving shaft, a driven shaft, a counter shaft, friction driving elements upon said shafts, and means for shifting the counter shaft longitudinally and laterally out of operative relation to the driving and driven shafts.

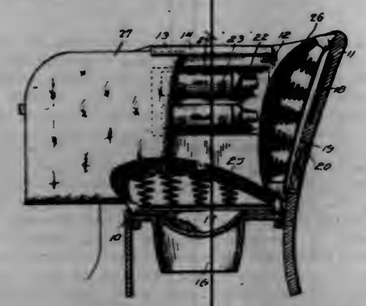
1,454,616. PROCESS FOR RESOLVING EMULSIONS. EUGENE E. AYERS, Jr., Chester, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 10, 1921. Serial No. 443,762. 12 Claims. (Cl. 196—26.)

12. The process of separating the constituents of a petroleum emulsion which consists in dissolving sodium resinate in a substance adapted to produce therewith a reagent that is soluble in petroleum, adding the reagent to the emulsion, and separating the constituents by subsidence.

1,454,617. PROCESS FOR THE PREVENTION OF THE FORMATION OF EMULSIONS. EUGENE E. AYERS, Jr., Chester, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 2[illegible] 1921. Serial No. 447,567. 14 Claims. (Cl. 196—26.)

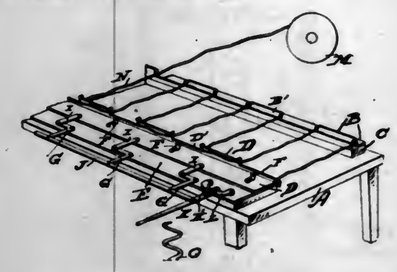
10. The process of preventing the formation of water-in-oil emulsions which consists in the addition to the oil of a reagent composed of sodium resinate dissolved in a substance in which the oil and the sodium resinate are mutually soluble.

1,454,618. TOILET ATTACHMENT FOR AUTOMOBILES. NORTHROP BANKS, Lamar, Mo. Filed Aug. 30. 1921. Serial No. 496,[illegible]2. 1 Claim. (Cl. 296—24.)



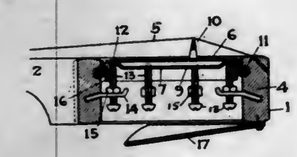
A vehicle seat comprising a base portion, a back portion and end portions, the end portions having inwardly directed guide ribs at their upper edges and recesses in their confronting faces, cushion elements slidably engaging the guide ribs, and a seat cushion element bearing at its ends against the end cushion elements and holding them from lateral displacement.

1,454,619. PROCESS OF WEAVING WIRE FABRICS. JOHN S. BARNES, Ann Arbor, Mich., assignor to Wire Products Corporation, Ann Arbor, Mich., a Corporation of Michigan. Filed Dec. 14, 1921. Serial No. 522,212. 5 Claims. (Cl. 139—9.)



1. The process of forming wire fabric consisting in securing one end of a continuous strand in a supporting frame and lacing the same to form return bends, interlacing woof strands across the return bends alternately and securing each end of each woof strand to the marginal return bend of the fabric.

1,454,620. BANJO. JOHN A. BOLANDER, Berkeley, Calif. Filed Dec. 3, 1917, Serial No. 205,017. Renewed Sept. 29, 1922. Serial No. 591,431. 4 Claims. (Cl. 84—270.)



1. A banjo, comprising, in combination, a rim having an internal circular groove, a head having its surrounding edge secured in said groove, a bridge mounted upon the outer surface of said head, a sound concentrator beneath said head and a sound opening through said sound concentrator located directly beneath said bridge.

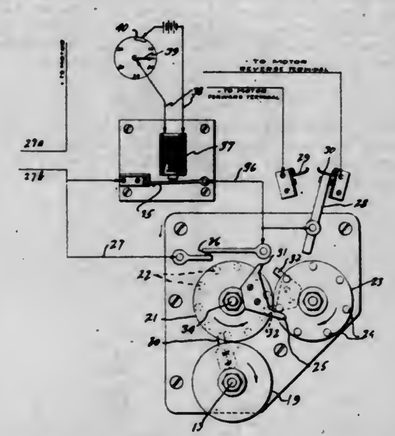
1,454,621. TRACKING DEVICE. REINHOLD BUKOW, Astoria, Long Island, N. Y., assignor to Hardman, Peck & Co., a Corporation of New York. Filed Dec. 30, 1921. Serial No. 525,900. 9 Claims. (Cl. 84—138.)



1. A tracking mechanism including in combination a pair of tracking-control fingers co-operating with fixed ports and with opposite sides of the sheet and automatic means for adjusting said fingers toward or away from each other.

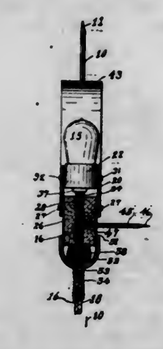
1,454,622. CHANGEABLE-SIGN DEVICE. HENRY W. CAIRNS, Detroit, Mich. Filed June 15, 1920. Serial No. 389,089. 2 Claims. (Cl. 40—53.)

1. In a changeable sign, the combination with a pair of rollers and a web mounted thereon carrying a plurality of signs, of a frame provided with an opening across which said web travels, said opening being proportioned for the display of said signs individually, a motor having a driving connection with one of said rollers, a normally open switch controlling the motor circuit, a shunt around said switch, a second normally open switch in the shunt circuit, means for closing said second switch for short



periods at regular time intervals, to initially energize the motor, and mechanism driven by the motor initially effecting closing of the first-mentioned switch and opening the same and holding it open upon a travel of the web sufficient to display a different sign through said opening.

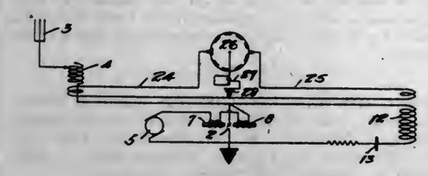
1,454,623. ELECTRIC TESTING DEVICE. REGINALD H. CARTER, Cleveland, Ohio, assignor to George V. Carter, Cleveland, Ohio. Filed Feb. 2, 1920. Serial No. 355,864. 12 Claims. (Cl. 175—183.)



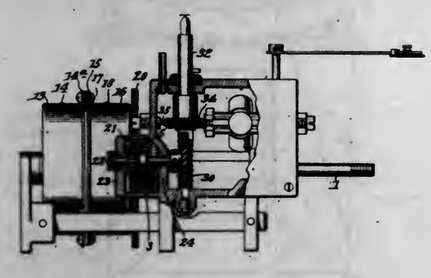
3. A testing device comprising a metallic holder, a lamp supported therein, two pointed leads in contact with one terminal of the lamp and insulated from said holder, and a third pointed lead in electrical contact with the holder and the other terminal of said lamp.

1,454,624. RADIOTELEGRAPHY SIGNALING SYSTEM. CORWIN C. CHAPMAN, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Apr. 27, 1920. Serial No. 376,942. 4 Claims. (Cl. 250—19.)

1. A radio telegraphy signalling system, comprising a source of continuous radio oscillation, a radiating circuit connected to said source, an oscillatory absorbing circuit also connected to said source, an energy absorbing element, and means for coupling said element alternately to one or the other circuit at audio frequency.

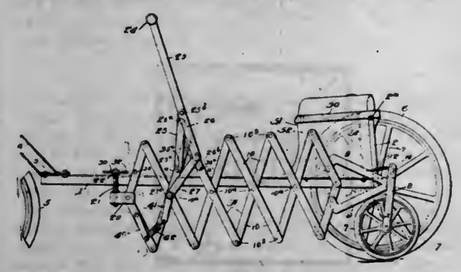


1,454,625. GEAR TRAIN FOR PHONOGRAPH MOTORS. GEORGE T. CHERRINGTON, Waukegan, Ill. Filed Apr. 9, 1920. Serial No. 372,566. 4 Claims. (Cl. 185—37.)



4. A drive for phonographs comprising the combination with a winding shaft, of a pinion adjacent one end thereof, a spring shaft, a gear mounted on said spring shaft in mesh with the pinion, a plurality of springs, a gear rotated by the unwinding of said springs, a frame, an intermediate shaft, a pinion mounted thereon, journal bearings in said frame each side of and adjacent to said pinion, a shouldered hub secured to said intermediate shaft by a pin, the ends of which project outwardly, a fiber gear mounted on said hub abutting said shoulder, there being a slot in said gear which fits the projecting end of the pin, a turn table shaft, a worm mounted thereon in mesh with the fiber gear, a governor, means to cause the rotation of the turn table shaft to rotate the governor, and means to prevent the backward rotation of the spring shaft.

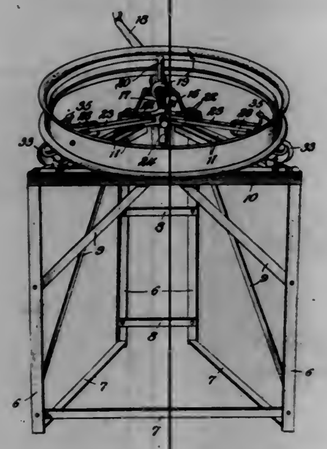
1,454,626. OCCUPANT-PROPELLED VEHICLE. CONRAD DAHL, Chicago, Ill., assignor to Donald M. Carter, trustee, Chicago, Ill. Filed Nov. 25, 1921. Serial No. 517,442. 6 Claims. (Cl. 208—38.)



1. In an occupant-propelled vehicle, in combination with a frame and supporting wheels, a ground-engaging member; a lazy-tongs structure by which said ground-engaging member is carried for rearward thrust in the pro-

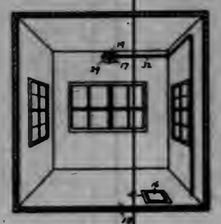
pelling stroke; an operating handle-lever member for extending the lazy-tongs; divergent links by which said handle-lever member is supported on two consecutive lazy-tong members, and a link connecting the lower end of the handle-lever member with an intersectional pivot of the lazy-tongs.

1,454,627. RIM-HANDLING DEVICE. DAVID A. DAVIES, Cleveland, Ohio, assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation. Filed Feb. 12, 1921. Serial No. 444,527. Renewed Sept. 27, 1922. Serial No. 590,998. 6 Claims. (Cl. 157—1.)



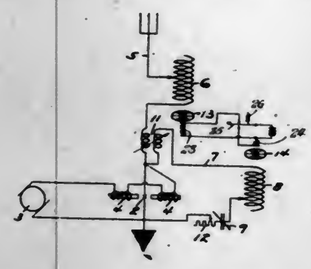
1. In a rim handling device, the combination with a stand having a plurality of slotted guides at the top, of a fixed rim-engaging member mounted on the stand, a pair of rim-engaging members movable on said guides and provided with a depending element slidable in the guides, a shaft mounted in said fixed member and having a crank whereby it may be turned, said shaft being screw-threaded beyond the fixed member, and located above the horizontal plane of the guides, and a casting connecting the two movable rim-engaging members with the screw-threads of said shaft and provided with a depending element slidably mounted in a guide.

1,454,628. TESTING APPARATUS FOR DETERMINING NONALIGNMENT OF VEHICLE WHEELS. JOHN F. DUBY, Boston, Mass., assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Jan. 19, 1920. Serial No. 352,410. 2 Claims. (Cl. 33—180.)



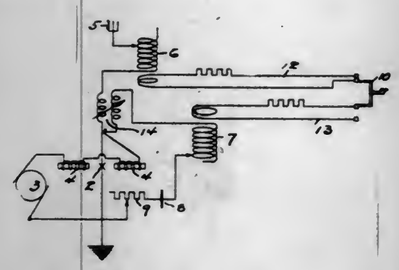
1. A testing apparatus of the character stated, comprising a track-forming base adapted to support and permit the movement of a wheeled vehicle thereon, said base including a fixed portion, an opening, a pan-shaped casing in said opening having a depressed bottom, and a movable platform in said opening forming a base portion, which is movable by the rolling thereon of a wheel out of alinement, the casing and platform being provided with anti-frictional means supporting the platform, and permitting horizontal movements thereof in opposite directions, yielding means normally holding the platform in a predetermined position in said casing, and an indicator movable by horizontal movements of the platform.

1,454,629. RADIOTELEGRAPHY SIGNALING SYSTEM. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed June 6, 1921. Serial No. 475,192. 17 Claims. (Cl. 250—19.)



1. A radio telegraphy transmission system including an oscillatory circuit, an inductance coil in said circuit, a plurality of sector circuits inductively connected to said inductance coil, means for discharging the charging current induced in said sector circuits and means for opening and closing the sector circuits.

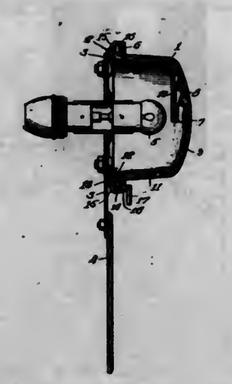
1,454,630. RADIOTELEGRAPHY. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed June 6, 1921. Serial No. 475,513. 12 Claims. (Cl. 250—19.)



1. A radio telegraphy signaling system, comprising a source of oscillations, an antenna circuit connected to the source, and an oscillatory circuit shunted around the source and coupled to the antenna circuit.

1,454,631. TAIL LIGHT. GILBERT S. ELLITHORPE, Chicago, Ill., assignor, by direct and mesne assignments, to The Bac-Lite Corporation, a Corporation of Illinois. Filed May 10, 1920. Serial No. 380,241. 3 Claims. (Cl. 240—11.)

1. A vehicle tail light lens of horizontally zoned character including an upper rearwardly facing danger signal part having a red light transmitting characteristic expressive of danger, and a lower similarly facing illuminating part visually and functionally distinct therefrom and having another light transmitting characteristic adapted for illumination of the roadway.



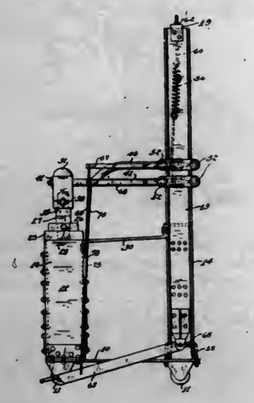
1,454,632. ARTIFICIAL TOOTH. LEON M. FARNUM, Lansdowne, Pa., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 22, 1919. Serial No. 339,818. 1 Claim. (Cl. 32—9.)



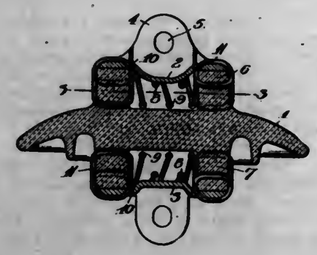
An artificial tooth having a pin-receiving cavity, arranged to receive a pin inserted therein, and an anchor baked in the body of said tooth, and comprising a base wall, forming the buccal wall of said cavity, side walls extended lingually and arranged to embrace the end portion of said pin in spaced relation therewith, and terminating lingually in a flange extended laterally therefrom, and embedded in the body of said tooth.

1,454,633. PORTABLE POWER HAMMER. HENRY A. FISHER, Cleveland, Ohio, assignor of one-half to Sydney H. Foxall, Cleveland, Ohio. Filed Mar. 10, 1921. Serial No. 451,327. 7 Claims. (Cl. 78—33.)

1. In a forging machine, the combination with a base, of a pair of separated frames rigidly connected therewith, one of said frames comprising a pair of upright members that are connected together in abutting engagement on one side of the frame, and near one end thereof, said members being separated near the other end of the frame, a hammer pivotally supported between the separated portions of said members, and a foot treadle connected with the hammer in such manner that a downward movement of the treadle causes a downward movement of the hammer.



1,454,634. INSULATOR. WALTER T. GODDARD, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Jan. 25, 1919. Serial No. 273,145. 8 Claims. (Cl. 173—318.)

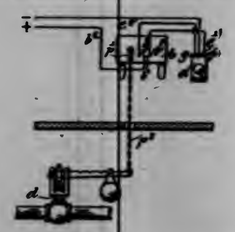


7. An insulating unit comprising an element formed of frangible insulating material, a rigid metallic element connected thereto, and means for connecting said elements at a plurality of points and for equalizing the strains imparted from one of said elements to the other, said means involving a continuous flexible sinuous member alternately engaging the said connected elements at a succession of points on each of said elements.

1,454,635. THERMOSTATIC ELECTRIC CONTROL FOR HEATING SYSTEMS. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 549,968. 4 Claims. (Cl. 236—74.)

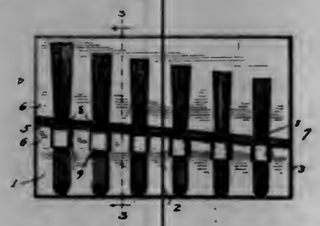
1. Apparatus for the thermostatic electric control of heating systems including, in combination, an expansible vessel adapted to be moved bodily, an electric motor, devices the movement of which is initiated by the expansible vessel to control the circuit of the motor, a controlled element in the heating system operatively connected to the motor, an adjustable seat for the thermostat formed with threads, a rotatable element

having cooperating threads for engagement with the threads on said seat, means to hold the seat against rota-



tion while permitting axial movement thereof and a manually operated indicator arm operatively connected to the second named element to effect rotation thereof.

1,454,636. HAIRPIN CONTAINER. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1918. Serial No. 244,829. 1 Claim. (Cl. 206—66.)



A hair pin container comprising a box portion and a double retaining wall provided with a series of spaced slotted apertures therein forming spring gripping fingers to hold hair pin bundles in position, said retaining wall extending diagonally across the box portion whereby a plurality of bundles of hair pins of different sizes or lengths may be held in alignment.

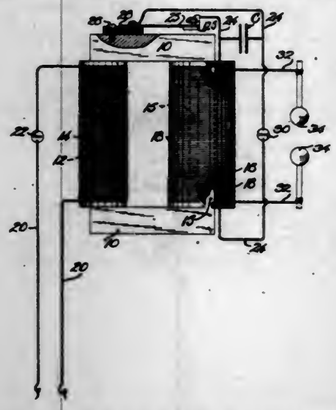
1,454,637. THREAD TENSION DEVICE. HENRY H. GOVE, Biddeford, Me., assignor of one-half to Howard R. Whitehead, Saco, Me.; Charlotte M. Gove administratrix of said Henry H. Gove, deceased. Filed May 27, 1919. Serial No. 300,093. 5 Claims. (Cl. 242—153.)



1. A thread tension device comprising a part having a curved surface, a plate having a part extending substantially parallel with said surface, a pivot supporting said plate for movement to carry said part into and out of engagement with said surface, a rod projecting from said plate at an angle thereto, and a weight adjustable on said rod, said weight acting to swing said plate toward said rod.

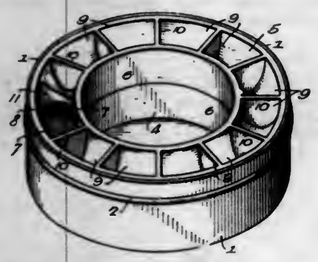
1,454,638. TRANSFORMER. LANSON T. GRADY, Victor, Colo. Filed Jan. 31, 1921. Serial No. 441,141. 5 Claims. (Cl. 175—35.)

4. A transformer having a core forming a closed magnetic circuit, a primary winding on a portion of said core, a secondary winding on another portion of said core, said secondary winding having an interrupter in



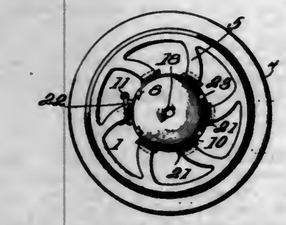
circuit therewith, a switch in series with said interrupter, and a second secondary winding on said core.

1,454,639. COMPARTMENT BOX. THOMAS K. P. HAINES, Philadelphia, Pa. Filed May 20, 1922. Serial No. 562,389. 2 Claims. (Cl. 223—53.)



1. The combination in a compartment box, of a circular body portion; a lid therefor; two trays located in the body portion, each tray being in the form of a ring, providing an open center for the box, each tray having a series of radial partitions forming compartments, each compartment having a rounded bottom, the upper tray having an opening through which access may be had to the compartments of the lower tray.

1,454,640. MINE-CAR WHEEL. FRANK W. HENRIKSON, Mulberry, Kans. Filed Apr. 11, 1922. Serial No. 551,484. 4 Claims. (Cl. 295—44.)



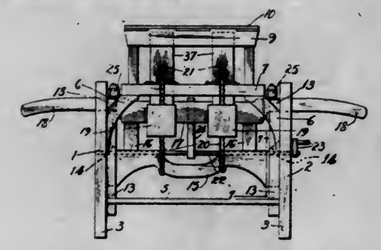
2. A mine car wheel comprising a hub, a rim and spaced spokes, each of said spokes having a locking slot therein and a hub cap having circumferentially spaced lugs adapted to engage in said slots on angular movement of said cap on said hub.

1,454,641. HAIRDRESSING DEVICE. LINZY HICKS, Omaha, Nebr. Filed Feb. 28, 1922. Serial No. 539,864. 4 Claims. (Cl. 132—43.)



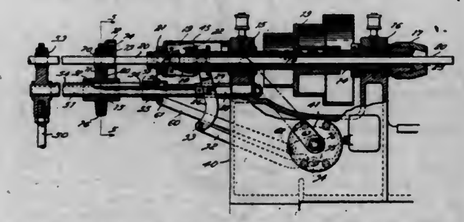
1. A hair dressing device comprising a strip of relatively thin sheet material, and an elastic casing surrounding the strip and engaging the same in a manner to leave an air cushion between portions of the casing and the strip along the length of the strip.

1,454,642. CONCRETE-BLOCK-MOLDING MACHINE. CARL HENRIK HOGLUND, Duluth, Minn. Filed Mar. 12, 1921. Serial No. 451,757. 1 Claim. (Cl. 25—41.)



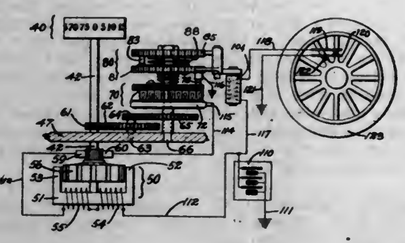
In a concrete block molding machine, a stationary frame comprising standards formed with aligned slots, a movable frame arranged therewithin, pairs of cleats carried by said stationary frame, sliding shoes carried by said movable frame and disposed between said cleats, handles for said movable frame adapted, in one position of the same, for disposition in the aligned slots of the said standards, counter-balance weights connecting said stationary and movable frames whereby movement of the latter is facilitated, an anchor block arranged in said sationary frame for supporting said movable frame in raised position, a movable plate carried by said stationary frame, and a mold box having individually removable sides carried by said movable frame and being wholly disposed below said removable plate in the lowered position of said frame.

1,454,643. FEEDING AND CHUCKING MECHANISM FOR MACHINE TOOLS. EARL J. HORNBERGER, Cleveland Heights, Ohio, assignor to Bardons & Oliver, Cleveland, Ohio, a Copartnership consisting of George C. Bardons and John G. Oliver. Filed Jan. 12, 1922. Serial No. 528,614. 12 Claims. (Cl. 29—59.)



1. In a device of the character described, the combination with a frame, of work advancing means and chuck operating means carried thereby, a rock shaft mounted on the frame, two arms carried by said shaft, a link operatively connecting each arm with one of said means, the points of connection between the arms and links being so positioned that when the rock shaft is oscillated, one of said links passes through dead center position, while the other is moved beyond dead center position, said points of connection having angular velocity imparted thereto when the rock shaft is oscillated.

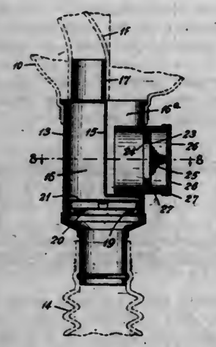
1,454,644. ELECTRIC SPEEDOMETER. CHARLES F. KETTERING, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Aug. 28, 1918. Serial No. 251,756. 10 Claims. (Cl. 172—293.)



1. In a synchronizing system for electric motors, the combination with a motor; of a rheostat in the motor circuit including as elements, a resistor and a wiper; means actuated by the operation of the motor tending to move the resistor relatively to the wiper, a spring which is wound up by the movement of the motor; and means controlled by the movable part with which the motor is to be synchronized for releasing the spring whereby the wiper will be moved under the action of the spring relatively to the resistor in order to counteract the effect of the first named means, thereby tending to increase the amount of current delivered to the motor.

1,454,645. BREATHING APPARATUS. FREDERICK W. KOEHLER, Pittsburgh, Pa., assignor to American Atmos Corporation, Pittsburgh, Pa., a Corporation of New York. Filed Mar. 29, 1921. Serial No. 456,576. 1 Claim. (Cl. 128—141.)

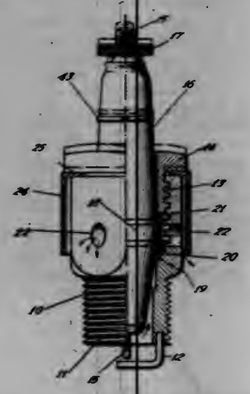




A gas mask comprising a face covering, a breathing fixture carried thereby and having interior inhalation and exhalation chambers independent of each other, a flexible

member within said face covering connected with said inhalation chamber and arranged to lie over the nose of the wearer, a hose connected with said inhalation chamber, a valve seat in said inhalation chamber, an inwardly opening valve co-operating with said seat to control the communication between said hose and said inhalation chamber, a tube extending into the exhalation chamber and outwardly beyond the same, an annular knife-edge seat in said tube, an outwardly opening disk valve co-operating with said seat to seal said tube and to permit the escape of exhaled air therethrough, a spider located in registry with said annular seat, a spring bearing against said valve with one end and having its other end secured to said spider and an apertured cap fixed upon the outer end of said tube to protect said disk valve and its seat against injury.

1,454,646. SPARK PLUG. WILLIAM MCELROY, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,787. 1 Claim: (Cl. 123—169.)



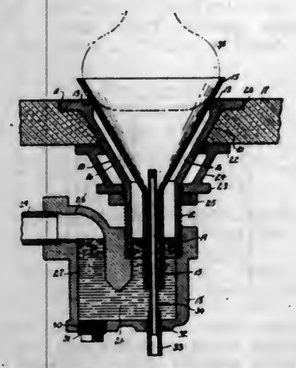
A spark plug embodying a shell, adapted to be screwed into the spark plug hole of an engine, provided intermediate its top and bottom with a shoulder and having its wall apertured above said shoulder, an insulating core extending through the shell and having an enlarged portion seated on the shoulder, a screw plug embracing the core and threaded into the shell to bear against the enlarged portion of the core and normally effect a tight seating of the enlarged portion of the latter upon the shoulder of the shell, but operable, when retracted, to allow the core to lift to permit carbon deposits in the plug to be blown out through the apertures in the shell, and an apron positioned exteriorly of the shell and overlying the apertures in the wall thereof to preclude broadcast distribution of the blown-off deposits.

1,454,647. CASTING APPARATUS. SAMUEL MCFARLAND, Coatesville, Pa. Filed Jan. 13, 1920. Serial No. 351,095. 7 Claims. (Cl. 22—141.)



1. The combination with an ingot mold, including a vertically disposed tube enclosing a space which is substantially rectangular but oblong, in a horizontal plane; of a bottom sprue plate supporting said mold and having a channel beneath said mold; and a conduit for molten metal extending in said channel and including a hollow brick of refractory material having centrally located within said space, a nozzle orifice which is oblong horizontally, more than twice as long as it is wide, and has substantially parallel side walls; said orifice being disposed with its longest horizontal dimention substantially parallel with the longest horizontal dimension of said mold; whereby molten metal is delivered to said mold in a substantially flat stream, and in coaxial relation with said mold tube.

1,454,648. STEAM BOWL FOR CHEMICAL LABORATORIES. JOHN MENZIES, New Haven, Conn. Filed May 27, 1922. Serial No. 564,257. 8 Claims. (Cl. 126—33.)



1. In a steam bowl for chemical laboratories, the combination with a slab, of a funnel-shaped funnel-mount, means for fastening the flaring upper end thereof in the said slab, a funnel installed in the said mount, with a clearance-space between it and the same for the escape of superfluous liquids accumulating around the mouth of the mount, a trap mounted upon the lower end of the mount for the reception of such liquids, and a steam tube mounted in the said trap concentric with the said funnel and rising from the trap thereinto.

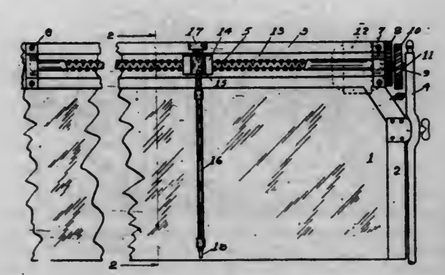
1,454,649. METALLIC FENCEPOST. CRAWFORD B. MURTON, Chicago Heights, Ill., assignor to Inland Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 18, 1922. Serial No. 530,038. 4 Claims. (Cl. 189—29.)



1. A metallic fence post having a row of integral lugs projecting from the front for spacing the wires, and a

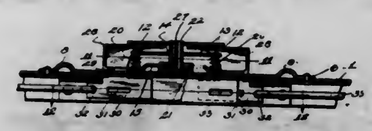
ground anchor in the form of a plate having apertures for receiving said lugs, said lugs projecting sufficiently to penetrate the plate and leave sufficient metal to be riveted over on to the outer surface of the plate, said lugs thereby performing the additional functions of holding the ground anchor in proper location on the post and fastened to it.

1,454,650. WINDSHIELD WIPER. IVAN J. NELSON, Saginaw, Mich. Filed Apr. 5, 1922. Serial No. 549,796. 2 Claims. (Cl. 15—253.)



1. In combination, a wind shield sash having a longitudinal groove in one rail thereof, a revolvable screw shaft within said groove, a corner of said sash being formed with an offset providing a recess, gears connected to said shaft and located in said recess, a traveling nut on said revolvable screw shaft, a spring-pressed wiper carried by said nut, a roller carried by said nut opposite said wiper, said roller traveling upon the outer face of the rail of said sash for the purposes set forth.

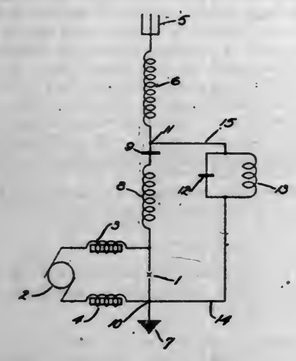
1,454,651. TRAVELING-BAG FASTENER. GEORGE PANYITY, Columbus, Ohio. Filed May 13, 1922. Serial No. 560,566. 4 Claims. (Cl. 292—41.)



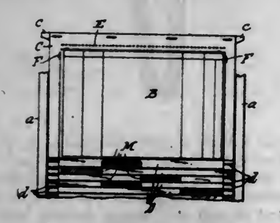
2. In a bag fastener, the combination with a pair of jaw frames, of a casing carried by one of the jaw frames, a head rotatably mounted in the casing and having opposed surfaces carried thereby, a member yieldably associated with the head, finger pieces slidable in the casing for contact with said member to limit the sliding movement thereof into the casing, catches carried by the other jaw, means slidable with the finger pieces for engaging the catches, and means for rotating the head to cause the cam surfaces to elevate the member, as and for the purpose set forth.

1,454,652. RADIO FREQUENCY TRANSMISSION SYSTEM. HARADEN PRATT, San Francisco, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Nov. 22, 1921. Serial No. 516,912. 2 Claims. (Cl. 250—17.)

1. In a radio frequency system, a source for generating high frequency oscillations, a load circuit connected in series with the source, a plurality of elements in series with the load circuit and the source, for producing across the terminals of the elements in series a minimum potential drop for the frequency it is desired to use, and a circuit connected directly across the terminals having a maximum impedance for the said frequency.



1,454,653. VISIBLE INDEX OR REFERENCE DEVICE. JAMES H. RAND, Jr., Tonawanda, N. Y. Filed Jan. 5, 1920. Serial No. 349,603. 18 Claims. (Cl. 129—16.)



1. In an index or reference device, the combination of card holders arranged in overlapping order with their horizontal lower margins exposed one above another, transparent cover strips on said exposed margins, staples securing the opposite ends of said cover strips to the holders, and cards retained on said holders with their lower edges under said cover strips between said staples, said staples extending parallel with the lower edges of the holders to stiffen the corners of the holders and cooperating with the opposite ends of the cards to hold the cards in substantial alinement with each other.

6. In an index or reference device, the combination of card holders arranged in overlapping order with corresponding margins exposed one above another, the lower portions of said holders being hinged and adapted to turn backwardly, card-retaining means on said hinged lower portions of the holders, and cards held by said retaining means, whereby the cards can be inverted without removing them from the holders.

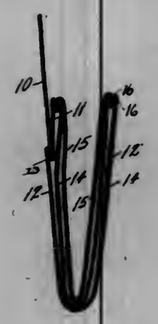
9. In an index or reference device, the combination of card holders arranged in overlapping order with their horizontal lower margins exposed one above another, cards on opposite sides of each holder, retaining means at the lower edge of said holder engaging the lower edges of the cards, said holders having a cut portion for the reception of the upper portion of the card on one side of the holder and another cut portion for the reception of the upper portion of the card on the opposite side of the holder for holding said cards in engagement with the retaining means at the lower edge of the holder.

12. In an index or reference device, the combination of card holders arranged in overlapping order with their

horizontal lower margins exposed one above another, the exposed margins of said holders having colored borders, and cards retained on said holders with their lower margins exposed, said exposed margins of the cards having apertures through which portions of said borders of the card holders are exposed to provide color signals.

15. In an index or reference device, the combination of card holders arranged in overlapping order with their horizontal lower margins exposed one above another, said card holders having tongues on their rear sides and being nested with one edge of one holder between the body and the tongue of the next holder, said holders having indentations forming a hinged portion on each holder, and said indentation being pressed into the rear faces of the holders whereby said rear faces are smooth and do not interfere with the nesting of the holder.

1,454,654. REVERSIBLE CUFF. GEORGE A. RIPLEY, Dallas, Tex. Filed Mar. 5, 1921. Serial No. 449,644. 3 Claims. (Cl. 2—79.)



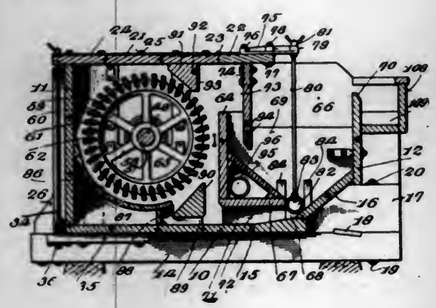
2. A sleeve having a cuff comprising a ply entirely free from the sleeve, said ply having a portion always around the outside of the sleeve and another foldable portion adapted to extend within the sleeve or outside of the sleeve and of said first named portion, a ply between the outside of the sleeve and the inside of the first named portion of the first named ply, stitched to the adjacent free edge of the latter and to the free end of the sleeve, and a third foldable ply stitched at one edge to said free end of the sleeve by the same stitching that attaches the second named ply to the sleeve, the third named ply extending along the foldable portion of the first named ply and stitched to the free edge of the latter.

1,454,655. MOLD FOR FORMING REPAIR PATCHES. JAMES ROBERTSON, Jr., Weehawken, N. J. Filed Feb. 15, 1922. Serial No. 536,649. 6 Claims. (Cl. 18—42.)



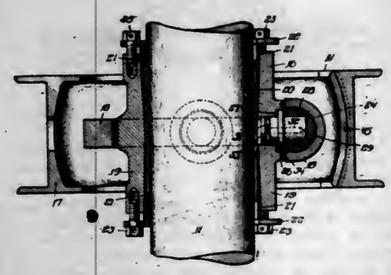
1. A mold for a rubber repair patch with a tread portion and an upstanding flange, the mold comprising laterally separable parts having a recess corresponding in form to the tread and lying partly in the top face of each of the laterally separable parts, one of the laterally separable parts having a convex projection and the other having a concave recess and having its face meeting the bottom of the recess in the top face at a sharp edge, the projection and recess being spaced apart by the amount required for the upstanding flange, means for holding together the laterally separable parts, and a top plate through which pressure is applied for forcing material throughout the mold, substantially as described.

1,454,656. FLOTATION MACHINE. CHARLES E. ROBB and AUGUST SANDBERG, Douglas, Ariz., assignors, by direct and mesne assignments, to William A. Butchart, Denver, Colo. Filed June 13, 1917. Serial No. 174,583. 3 Claims. (Cl. 83—85.)



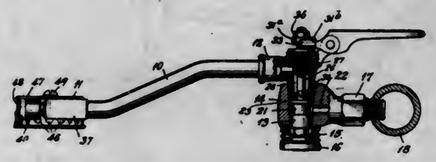
1. A machine of the character described, comprising an agitating chamber that is adapted to receive a liquid, a rotatable agitating device in said chamber, a discharge passageway leading upwardly from the bottom of the agitating chamber to an outlet opening adjacent the horizontal center of the agitating device, said discharge passageway and outlet opening being so disposed with relation to the agitating device that the liquid in said chamber will be lifted by the rapid rotation of said agitating device and discharged laterally through said outlet opening in a direction opposite to that of the rotation of said agitating device.

1,454,657. SELF-ALIGNING PULLEY. WILLIAM C. SMITH, Chicago, Ill., assignor to Pullman Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1921. Serial No. 448,881. 2 Claims. (Cl. 64—98.)



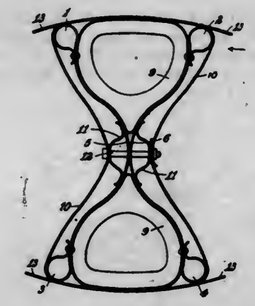
1. Power transmission mechanism comprising, in combination with an axle, a flexible pulley structure including an outer ring member adapted to transmit power tangentially thereof, an intermediate ring member, aligned radial trunnion pins the inner ends of which are seated in recesses carried by the axle and the outer ends of which are journalled in bearings carried by the intermediate member whereby to pivot said member on a diameter thereof, and other aligned radial trunnion pins the inner ends of which are journalled in bearings carried by the intermediate member and the outer ends of which are seated in recesses formed in the outer member whereby to pivot the last mentioned member on a diameter thereof at right angles to the pivoting diameter of the intermediate member, one of the bearings of each pin being capable of self-alignment into a position normal to its member.

1,454,658. FLASH IGNITER FOR GAS BURNERS. OTTO SPAHR, Philadelphia, Pa., assignor to Strause Gas Iron Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1921. Serial No. 447,406. 2 Claims. (Cl. 158—115.)



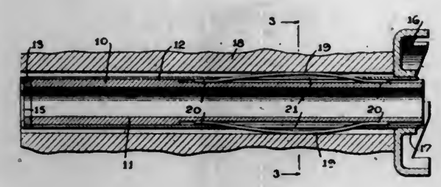
2. A gas lighter comprising a valve casing connected with a source of gas, a plug rotatably mounted therein, a supply tube carried by and communicating with said plug, a burner carried by said tube, a valve seat in said plug, a valve stem slidably mounted therein and projecting outwardly beyond the same, the projecting end of said stem being externally screw-threaded, a valve at the inner end of said stem for controlling the supply of fuel to said burner, an internally screw-threaded stop adjustably mounted upon said stem for arresting the closing movement of said valve at a distance from said seat whereby a restricted passage is provided for supplying a reduced amount of gas to said burner to maintain a pilot flame thereat, a lock nut for locking said stop in an adjusted position, and a forked handle pivoted on said plug and projecting beneath said stop for actuating said valve and whereby said plug and its associated elements may be pivotally adjusted relatively to said casing.

1,454,659. COMPOUND METAL SPAR. ALBERT P. THURSTON, London, and HAMILTON N. WYLIE, Birmingham, England. Filed Dec. 10, 1919. Serial No. 343,890. 12 Claims. (Cl. 189—37.)



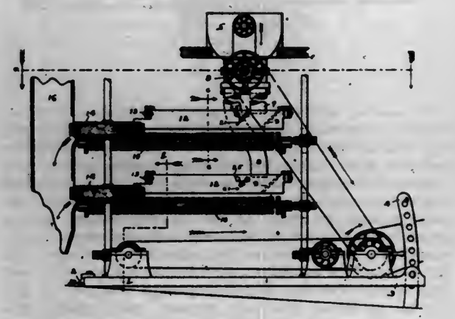
1. A sheet metal structure comprising a plurality of web members connected together in the median plane of the structure and disposed in splayed relationship and forming a number of separate projecting arms in cross section, a tubular member located along the outer edge of each of said projecting arms, and a plurality of reinforcing cross frames disposed at intervals between said projecting arms.

1,454,660. MOUNTING FOR BOBBINS. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Feb. 5, 1921. Serial No. 442,649. 3 Claims. (Cl. 242—46.6.)



3. In mechanism of the class described, in combination with a bobbin or the like, a rotatable supporting member adapted to enter the bore of the bobbin and support the same to rotate therewith, said supporting member comprising an inner member having a plurality of grooves formed in its surface and an outer metallic sleeve substantially encasing said inner member and having a plurality of slots registering with said grooves, and a plurality of spring members resting in said grooves and pressing outwardly through said slots against the inner surface of said bobbin to prevent relative rotation between said bobbin and said support.

1,454,661. MACHINE FOR MARKING NUTS. JOHN C. WHITE, San Francisco, Calif. Filed Aug. 18, 1919. Serial No. 318,272. 18 Claims. (Cl. 202—37.)

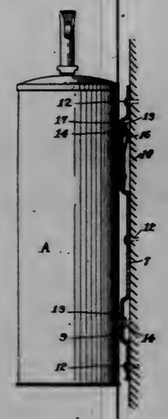


1. A nut marking apparatus comprising a marking mechanism and a conveying channel having a bottom composed of rotating brushes adapted to position the nuts and convey them to the marking mechanism.

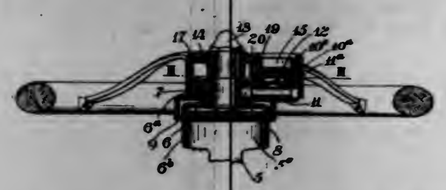
1,454,662. SUPPORTING BRACKET. PETER L. WILBUR, Tuckahoe, N. Y., assignor to Ampyr Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,923. 2 Claims. (Cl. 248—20.)

1. In a bracket, a plate formed with bulged portions with the extremities of the plate and the portion be-

tween the bulged portions extending in the same plane, openings in the bulged portions having portions of different widths, fingers projecting laterally and forward of the plate, and a detent arranged in the rear of the opening in the bracket for the purpose specified.



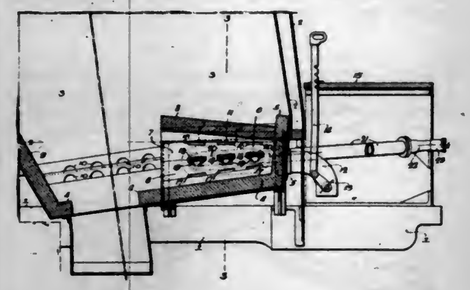
1,454,663. STEERING-WHEEL LOCK. FRED E. BAUERMEISTER, Columbus, Ohio. Filed July 25, 1922. Serial No. 577,436. 2 Claims. (Cl. 70—129.)



1. Locking means for the steering wheel of a motor vehicle comprising, in combination, a cap for the steering column having a socket bolt receiving hub, means for securing said cap to the steering column, a lock base member fitting over said cap concealing the cap securing means and carrying a lock bolt adapted to be thrown radially with reference to the steering column into a socket of the socketed cap, said lock base member also carrying a rotary cam member operably connected with the lock bolt, a steering wheel having a spider provided with a cavity, a key operated cylinder lock in said cavity for actuating said cam member, said cylinder lock having its axis standing at right angles to the aforesaid bolt and confined and held between the spider and the lock base, concealed means for connecting the lock base and the spider, said spider having a wall concealing the outer end of said bolt, and means for securing the spider and lock base to the steering rod operating shaft.

1,454,664. POWDERED-FUEL BURNER. HERMANN BLEIBTREU, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1920. Serial No. 377,791. 6 Claims. (Cl. 110—28.)

4. The combination in means for burning powdered fuel, of a casing forming a combustion chamber open at one end only and flaring towards said end; a series of fuel nozzles at each side of the chamber and communicating therewith; air ports communicating with the chamber above and below the fuel nozzles; air chambers with



which the air ports communicate; means for supplying the chambers with air; and means for feeding powdered fuel to the nozzles.

1,454,665. KNIFE LOCK. JOHN BOBEK, Trevorton, Pa. Filed Sept. 22, 1921. Serial No. 502,347. 1 Claim. (Cl. 30—10.)



In a knife comprising a handle having a blade pivotally connected thereto, the said blade having a rectangular bore open at the pivoted end of the blade, a rectangular bolt slidable in said bore adapted for projecting into the handle when the blade is open with the bolt positioned at the rearward limit of its movement, the blade having a longitudinal slot in the back thereof communicating with said bore, a squared pin slidable in said slot and carried by the bolt, a knurled finger engaging knob upon the outer end of the pin and a position retaining spring upon the pin between said knob and the back of the blade when the device is assembled.

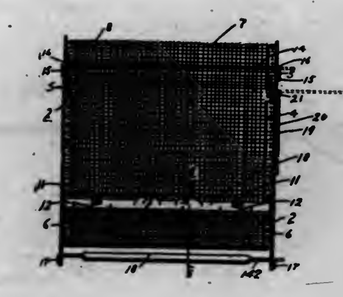
1,454,666. BUCKLE. GEORGE T. BRANNIGAN, Bridgeport, Conn., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 26, 1922. Serial No. 563,778. 4 Claims. (Cl. 24—191.)



1. A buckle comprising a frame having spaced front and back bars, and a lever pivoted to the front bar provided with a front portion and a tongue extending forwardly under the front of the lever from the pivot toward the back bar when the lever is in securing position and terminating in a plain edge, said tongue being bent laterally at a distance from said plain edge to

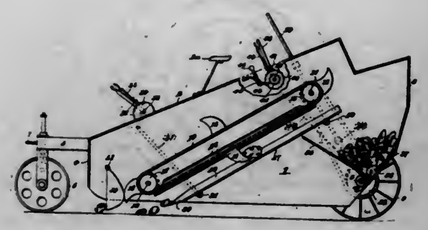
form a surface adjacent the rear bar extending at substantially right angles to a line joining the front and rear bars when the lever is in securing position, said surface being of such a length that the bend and plain edge are on opposite sides of this line and the web is clamped against the rear bar by said surface.

1,454,667. INSECT TRAP. JOHN CLARK BROWN, Minneapolis, Minn. Filed July 31, 1919. Serial No. 314,489. 1 Claim. (Cl. 43—118.)



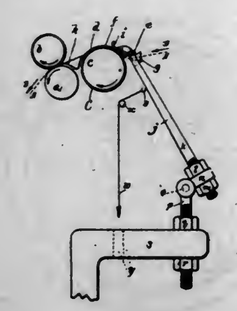
A collapsible insect trap comprising a wire fabric folded transversely to form side walls, the edges of said walls being folded inwardly and upwardly and hinged together with openings for the passage of insects between them, said fabric folding to a substantially flattened form, panels having inwardly turned edges and tongues formed thereon between which and said edges the ends of said walls are inserted, and bars passing through said panels at the top and bottom for securing them and said fabric together.

1,454,668. STONE-GATHERING MACHINE. JOHN BUGLA, Saginaw, Mich. Filed Oct. 20, 1921. Serial No. 509,023. 2 Claims. (Cl. 55—17.)



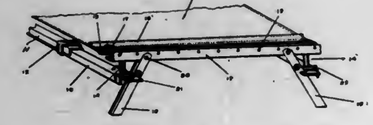
2. A stone gathering machine embodying a body, front and rear supporting wheels therefor, endless conveyors supported in the body, driving connections between the rear wheels and the endless conveyors, an angularly adjustable chute disposed beneath the endless conveyors, and weighted arms arranged transversely of the machine forwardly of the conveyor and chute.

1,454,669. MECHANISM FOR DRAWING OR DRAFTING FIBROUS MATERIAL. ARTHUR CECIL BUTLER, Boston, Mass. Filed Apr. 13, 1921. Serial No. 461,139. 26 Claims. (Cl. 19—130.) (Granted under the provisions of the act of March 3, 1921, 41 Stat. L., 1313.)



7. In a drawing mechanism, the combination with means for supporting and feeding a roving, of a cap cooperating with said supporting means and exerting pressure along a length of the roving, said pressure being greater at one end than at the other end of said length.

1,454,670. AUTO CAMP BED. FRED H. DUDLEY, Lincoln, Nebr. Filed Aug. 24, 1922. Serial No. 584,046. 2 Claims. (Cl. 5—112.)

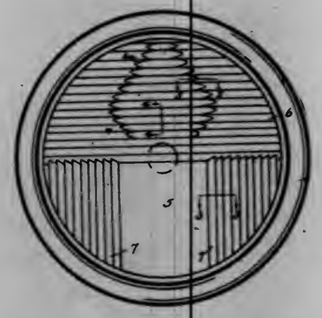


1. A bed corner including an end rail of angle iron, the vertical wall of the angle iron being on its outer side with reference to the bed and the horizontal wall being on the lower side of the angle iron, a side rail of angle iron having its vertical wall on the outer side and its horizontal wall on the upper side of the angle iron rail, said end rail being spaced from and secured to said side rail, an angle iron leg pivotally secured to the vertical wall of said end rail at a point spaced from the extremity of the end rail, one of the walls of the angle iron leg being on the side of the leg adjacent the side rail, an abutment plate secured to the horizontal wall of the side rail and in line with the path of said pivoted leg, and a notch in said abutment plate, said notch having substantially the width of angle iron wall and being slightly displaced from the path of the pivoted leg whereby the binding action of the leg on its pivot will hold the leg yieldably latched in said notch.

1,454,671. HEADLIGHT. JOHN M. DUNLEA, Los Angeles, Calif. Filed June 1, 1922. Serial No. 565,153. 4 Claims. (Cl. 240—48.4.)

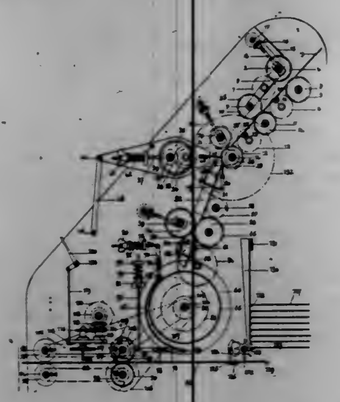
1. A headlight lens comprising a glass plate, a continuous series of horizontal, straight, parallel, wedge shaped prisms covering the upper half thereof, the thicker edge of each prism being continuous and directed downwardly, the angle of the central portion of certain of said prisms being more acute than that of the end portions of the same prisms and merging thereinto, plane parallel surfaces upon the two sides of the plate at the middle portion of the lower half thereof extending from the lowest horizontal prism to the lower edge of the plate, two series of vertical, straight, parallel, wedge

shaped prisms extending from the lowest horizontal prism to the lower edge of the plate, said series of vertical prisms being separated by said plane surfaced portion, the thicker edges of the vertical prisms being directed



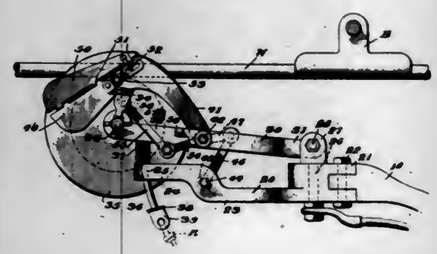
toward the vertical diameter of the plate, and the surfaces of the vertical prisms being each formed upon the arc of a circle tangent to the plane of the plate at the base of the prism.

1,454,672. MACHINE FOR THE MANUFACTURE OF BREAD ROLLS. HENRY PÉTAZ, Paris, France. Filed Dec. 5, 1922. Serial No. 605,068. 4 Claims. (Cl. 107—4.)



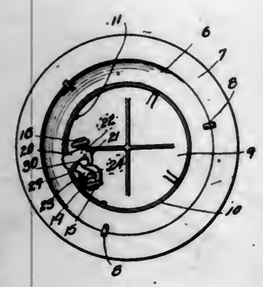
4. A machine for the manufacture of bread rolls comprising in combination a hopper for the dough, a pair of rolling cylinders, means for rotating said cylinders, means for adjusting the distance between said cylinders, an inclined scraper plate for receiving the dough rolled between the cylinders, circular revolving knives adapted to cut up the dough sheet into parallel strips, means for rotating said revolving knives, a receiving cylinder, an inclined scraper plate adapted to receive said dough strips from the revolving knives and to deliver them upon said receiving cylinder, a pressing cylinder adapted to press the dough strips upon the receiving cylinder, a transverse knife blade adapted to cooperate with the receiving cylinder for cutting up the dough strips into pieces, a supporting link pivoted at one end to a fixed point, a knife holder for supporting said knife blade pivotally connected to the free end of said link, a driving eccentric, a spring connecting between said driving eccentric and the knife holder, an inclined scraped plate adapted to receive the pieces of dough cut up by said knife blade, a pair of rolling cylinders between which said dough pieces are rolled, an inclined scraper plate below said rolling cylinders, a rotating drum a stationary arcuated plate, means for resiliently holding said arcuated plate at an adjustable distance from the periphery of the drum, a flat receiver adapted to receive the rolled up dough pieces delivered by the drum, driving means for feeding said flat receiver and means actuated by said driving means for giving a crescent shape to the rolled up pieces of dough.

1,454,673. TROLLEY GUARD. MILTON FIEL, Meyersdale, Pa. Filed July 15, 1922. Serial No. 575,289. 27 Claims. (Cl. 191—77.)



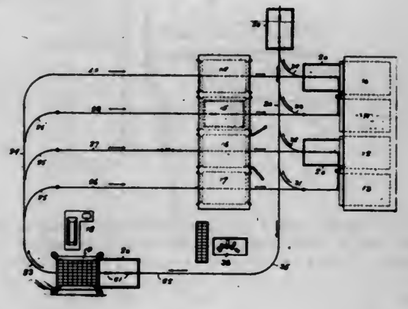
1. In a trolley, a relatively fixed substantially horizontally disposed base fork, a vertically swingable fork pivotally mounted at one end thereof to one end of said base fork, extending above said base fork and spaced therefrom in substantially vertical alinement therewith, a trolley wheel mounted in the vertically swingable free end of said pivoted fork, and means interposed between the free end of said pivoted fork and said base fork normally forcing the free end of said pivoted fork away from said base fork.

1,454,674. METER BOX. SAMUEL I. FLOURNOY, Kansas City, Mo., assignor to Walter S. Dickey, Kansas City, Mo. Filed Feb. 13, 1922. Serial No. 536,285. 2 Claims. (Cl. 137—13.)



1. A meter box cover comprising a disk having depending members on its under side provided with transverse slots, a bar in the slots, the cover having a recess facing the bar and an opening spaced from the recess but also facing the bar, a pivoted lever having a trunnion fitting into the recess and having a meter box engaging end, a projection at right angles to the lever, and a swinging finger having a trunnion projecting through the opening in the cover and provided with a key-engaging portion, the finger being movable in one direction to cause the locking lever to move into functional position and movable in another direction to cause the lever to move in a non-functional position, the finger and lever being held in co-operative positions by the bar.

1,454,675. BAKER'S INSTALLATION. JOHN M. GANTVOORT, Beacon, N. Y. Filed Mar. 25, 1922. Serial No. 546,758. 5 Claims. (Cl. 107—56.)



1. In a baker's installation, a battery of ovens, each adapted to receive a series of removable, superposed, baking shelves, proofing chamber means, a loading table, an unloading table, racks adapted to support in superposed position a group of baking shelves for an oven, trolley means for overhead suspension of the racks, and an overhead track system for the rack trolleys, said track system comprising a circuit of the loading table, proofing chamber means, ovens, unloading table, and thence to the starting point

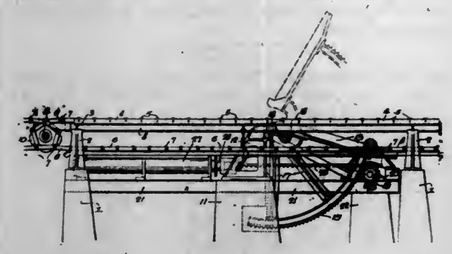
3. In a baker's installation, an oven adapted to receive a series of superposed, removable oven shelves, a rack adapted to support said shelves in superposed position substantially corresponding to that occupied by the shelves in the oven, an overhead suspension system for the rack by which the latter may be shifted to position in front of the oven, and means for tilting the rack to bring the oven shelves thereon into register with the shelf support of the oven, and to facilitate the delivery of the shelves to the oven.

1,454,676. PROCESS OF MANUFACTURING ORNAMENTAL PAPER. MANUEL A. T. GILLBEE, Philadelphia, Pa., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1921. Serial No. 492,175. 4 Claims. (Cl. 91—67.9.)

1. The process herein described of producing ornamental paper, said process consisting in first applying to the surface of the paper a liquid bronze, allowing the paper to dry, then applying a color over the surface of the paper previously prepared, then printing on this prepared surface designs in various colors, diffusing the body color and the colors of the designs, and finally drying the coating.

4. The process herein described of producing ornamental paper, said process consisting in first applying to the surface of a sheet of paper, cardboard, or the like, a liquid bronze, allowing the paper to dry, coating the bronze surface with a color suitably distributed, diffusing the color, drying the coating, calendering the paper, then embossing the sheet, and finally tipping the high spots with bronze, or color.

1,454,677. INSPECTION LIFT. CHARLES L. HUSTON, Coatesville, Pa. Filed June 3, 1920. Serial No. 386,369. 2 Claims. (Cl. 80—42.)



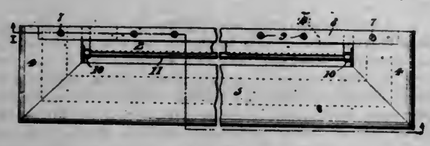
1. The combination of a table for supporting rolled plates; means for carrying the plates over the table; a series of arms forming an inspection lift, each arm having toothed segments; a transverse shaft having pinions meshing with the teeth of the segments; and means for turning the shaft to raise the arms.

1,454,678. POCKET MIRROR. WALTER KRUEGER, Chicago, Ill., assignor to Harry O. Rugh, Chicago, Ill. Filed Aug. 30, 1919. Serial No. 320,787. 2 Claims. (Cl. 45—18.)



1. In a mirror device, the combination with a metallic disc, coated on one side with a coating of high reflecting power, a protecting disc cover of soft material, and a main disc cover, said protecting disc cover being placed intermediate the said main cover and the said metallic disc, and a single rivet to so secure the said disc and covers together near an edge thereof, that said covers may be rotated edgewise on the said rivet.

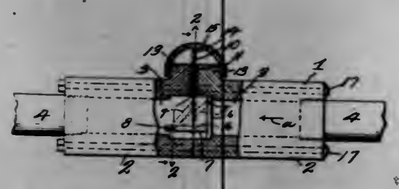
1,454,679. CURTAIN-SUPPORTING ATTACHMENT FOR WINDOW FRAMES. JOSEPH KULCZYCKI, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,414. 1 Claim. (Cl. 156—13.)



In combination with a window frame including a head casing provided with an open top socket spaced inwardly of the ends of said head casing, a curtain supporting frame substantially U-shaped in plan and including end members arranged with their free ends disposed to abut a wall surrounding said frame, a metallic strip having its

ends fastened upon the upper surface of said end members and rigidly connecting the latter members, a block carried by the under surface of said strip adapted to be received within the socket of the said casing head, and curtain pole supporting brackets upon the said curtain supporting frame.

1,454,680. PRESSURE VALVE. CARLO LALAMA, Beaver Falls, Pa., Filed Mar. 8, 1922. Serial No. 541,981. 1 Claim. (Cl. 67—115.)



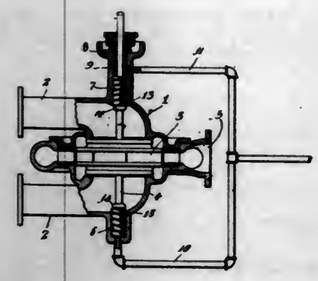
A pressure control valve comprising a casing, a gravity actuated horizontally pivoted disc valve in said casing, said disc valve being normally held in raised open position by the flow of fluid through the valve, a member horizontally pivoted in the valve and normally held in raised position by engagement of the free end thereof with the disc valve, said member forming means for holding the disc valve against raising upon loss of pressure and the resumption of pressure by assuming a horizontal position with its free end in engagement with one side of the disc valve, a flexible member connected to the pivoted member at a point spaced from its pivotal point, said flexible member extending through an aperture in the casing, a removable cap carried by the casing and housing the aperture therein, said flexible member having its outer ends connected to the removable cap, said flexible member forming means for limiting the pivoted member in a horizontal position upon a downward movement thereof.

1,454,681. VEHICLE CURTAIN CONSTRUCTION. HENRY LATIFF, Middlesboro, Ky. Filed Dec. 19, 1921. Serial No. 523,400. 3 Claims. (Cl. 296—140.)



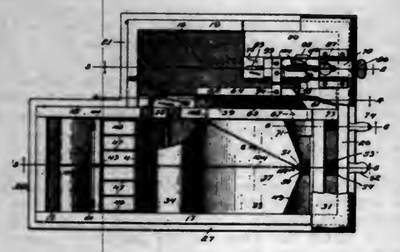
1. A vehicle top comprising a plurality of oppositely disposed tracks, each of said tracks formed of a pair of spaced and opposed trackway sections adapted to be secured with the lower face of a vehicle top, each of said sections having its outer end curved downwardly, a curtain associated with each track, a rod carried by the upper end of each of the curtains and provided with a roller at each end traveling in the track and further provided with a pair of eyes, means for fastening said curtains in side closing positions, and a pair of automatically windable spring elements, having their upper ends anchored with the vehicle top and the lower ends connected to the pair of eyes and windable on themselves for automatically returning the curtain to inoperative position when the curtain is released.

1,454,682. SHAFT BEARING. WILLIAM ROBERT LAYNE, Richmond, Calif., assignor to Standard Oil Company, San Francisco, Calif., a Corporation of California. Filed Aug. 15, 1921. Serial No. 492,365. 7 Claims. (Cl. 64—10.)



1. A shaft bearing of helical formation having a fixed end and a freely rotatable end and providing a continuous helical oil channel between the convolutions.

1,454,683. GAME APPARATUS. ROBERT J. MARTIN, Oswego, N. Y. Filed Feb. 4, 1922. Serial No. 534,161 10 Claims. (Cl. 46—61.)

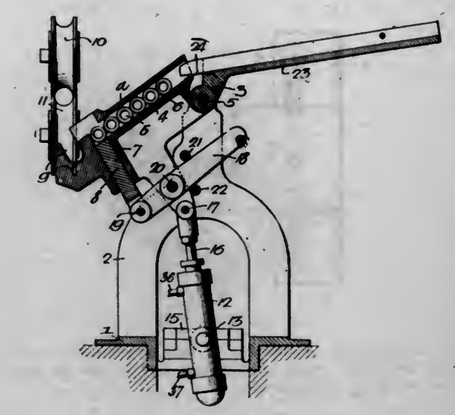


1. In a game apparatus, a cabinet formed with a main and an auxiliary compartment, means to provide an outlet leading from the main to the auxiliary compartment, means to provide an inlet leading to the main from the auxiliary compartment, playing devices within said cabinet and delivered to and from the main from and to the auxiliary compartment, a slidable element for directing and releasing said devices for passage thereof through said inlet, means for delivering said devices successively to said main compartment when released by said element, means for projecting said devices when delivered to said main compartment, a coin controlled mechanism for effecting the operation of said element, and means operated from said mechanism to effect the discharge of said devices from said main to said auxiliary compartment.

1,454,684. BALL-PLACING DEVICE FOR TUBE MILLS. JAMES H. MATHESON, Reading, Pa. Filed Apr. 4, 1922. Serial No. 549,486. 9 Claims. (Cl. 78—83.)

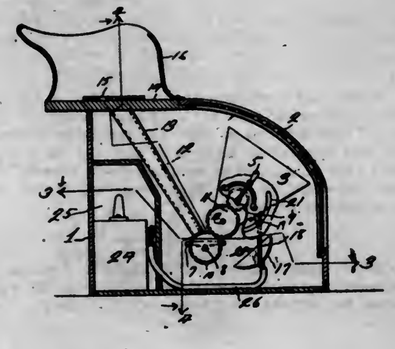
6. The combination of a standard; a carrier pivotally mounted on the standard; means for raising and lowering the carrier, said carrier having a channel for balls; a pocket at the end of the carrier; a slide adapted to select one of the balls from the channel and lift the ball and allow it to roll into the pocket; and a lever pivoted to the

carrier and having one arm connected to the slide, the other arm of the lever extending between two bearings



on the standard so arranged that when the carrier is raised, the lever will be moved on its pivot and will elevate the slide.

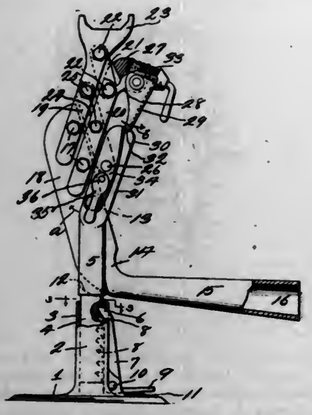
1,454,685. EGG-CANDLING DEVICE. PAUL MUELLER, Ashton, Iowa. Filed May 26, 1921. Serial No. 472,651. 3 Claims. (Cl. 99—6.)



1. An egg candling device comprising a casing, an inclined light passage in said casing, a reflecting cone having its apex end disposed adjacent the lower end of the inclined passage, said reflecting cone being pivotally mounted in the casing, a convexed glass disposed adjacent the upper end of said cone, a mirror disposed below the apex end of the cone and the lower end of the light passage and means for simultaneously adjusting the mirror upon a movement of the reflecting cone.

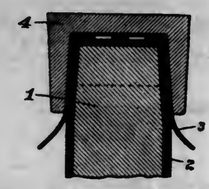
1,454,686. VEHICLE JACK. PETER IVARSEN NAMTVEDT, Terril, Iowa. Filed Feb. 14, 1922. Serial No. 536,584. 3 Claims. (Cl. 254—122.)

1. A vehicle jack comprising a bifurcated standard, a lever pivoted in the bifurcation of said standard, a parallel link device carried by said lever and having one of its ends adapted to be forced upwardly upon a downward movement of the lever, an axle engaging element carried by the upwardly moved end, and a spring actuated dog



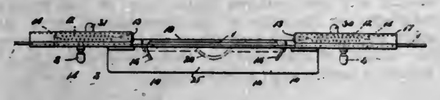
carried by said link construction and cooperating with a notch in the standard for holding the link construction in extended position.

1,454,687. METHOD OF MAKING ACIDPROOF CONTAINERS. JOSEPH E. PERRAULT, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1922. Serial No. 535,645. 5 Claims. (Cl. 18—56.)



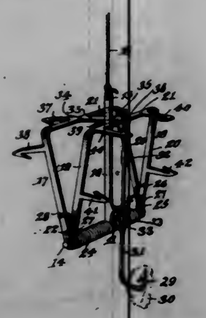
1. The herein described method of making rubber acid proof containers and the like which consists in applying sheet rubber to a mandrel or core to form the bottom and sides, applying over the bottom and two of the sides a fibrous layer, and vulcanizing the article in an open heat while pressing said fabric against the said bottom and sides.

1,454,688. HOLDING, ADJUSTING, AND ALIGNING APPARATUS FOR LENSES FOR EYEGLASSES AND THE LIKE. KARL W. POLLARD, Boston, Mass. Filed Nov. 25, 1921. Serial No. 517,834. 4 Claims. (Cl. 29—80.)



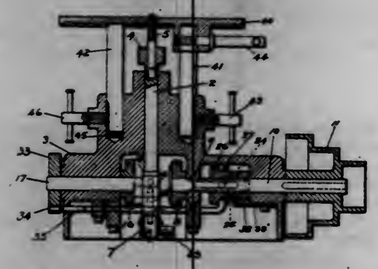
1. Adjusting devices for a pair of lenses, while mounted in a frame comprising a slide adapted to be fitted to a lens aligning and testing instrument, means to hold said frame and lenses, in combination with means permitting the adjustment of each lens in said aligning and testing at the will of the operator.

1,454,689. FISHHOOK. FREEMAN A. QUINTAL, Holyoke, Colo. Filed Sept. 19, 1922. Serial No. 589,118. 4 Claims. (Cl. 43—89.)



2. A device for the purpose set forth comprising a supporting element having a laterally extending stop lug, a pair of oppositely disposed and spring controlled shiftable grappling or snaring members pivotally supported from the lower end of said element, a locking arm carried by one of said members and adapted to project over the other, and a lengthwise shiftable fish hook extending through said lug and one end of said arm when extended for locking said members against the controlling action of their springs until the hook is shifted clear of said arm, said hook having spaced enlargements engaging with said lug to limit vertical movement of the hook in either direction with respect to said element.

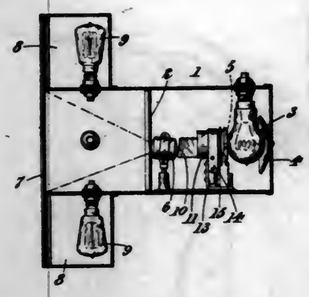
1,454,690. FILING MACHINE. FRANK A. REINHARD, Wilmington, Mass., assignor to Boston Tool and Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1920. Serial No. 366,375. 7 Claims. (Cl. 29—76.)



1. A filing machine comprising, in combination, a file holder, a rotary shaft supporting said holder, a gear fast on said shaft, mechanism including a train of gears for reciprocating said shaft, and means for relatively moving said gear and one of the gears of said train to interrupt the operation of the train and to bring said gears into mesh with each other, whereby the reciprocating motion of said shaft is interrupted and a rotary motion is transmitted to said shaft.

1,454,691. ADVERTISING SIGN AND THE LIKE. STUART F. J. RIDDELL, Ravenscourt Park, and EUGENE FORSTER, Richmond, England. Filed Jan. 17, 1921. Serial No. 437,744. 9 Claims. (Cl. 88—24.)

1. An advertising sign forming a complete unit comprising in combination a chamber, a translucent screen at one end thereof, a kaleidoscope within said chamber, automatic means to cause intermittent rearrangement of the pattern producing particles, and means to project



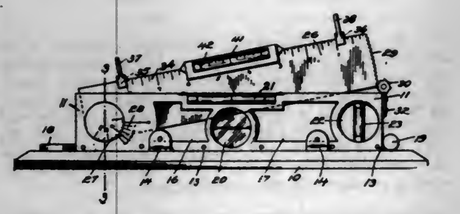
the kaleidoscopic pattern on to the screen comprising light producing means at one end and a lens at the other end of the kaleidoscope.

1,454,692. TYPE BAR FOR STENOGRAPHIC TYPEWRITERS. EDNA G. ROBESON, Atlanta, Ga. Filed Aug. 28, 1922. Serial No. 584,699. 6 Claims. (Cl. 197—9.)



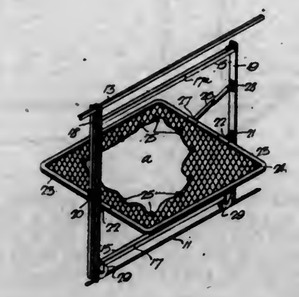
1. A type bar comprising, in combination, a bar supporting member, a type bar supported thereon, a plurality of type mounted on said type bar, selective means upon said member to move said type bar to bring a desired type to a printing position, means whereby continued movement of said selective means moves said type to make an impression.

1,454,693. MEASURING INSTRUMENT. FRANK F. SCHLATTAU, Los Angeles, Calif. Filed Aug. 27, 1921. Serial No. 496,084. 8 Claims. (Cl. 33—88.)



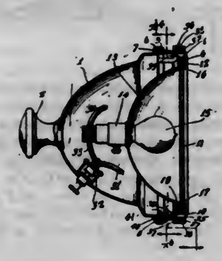
1. In a device for the purpose set forth a base, a frame disposed lengthwise thereof, a rule blade within and pivoted to the frame for swinging movement in a vertical plane, spirit levels extending lengthwise of the frame and blade, a vertical spirit level mounted in the frame, a spirit level disposed transversely of the base, and a sighting device on said blade.

1,454,694. LEATHER DRIER. WALTER M. SCHWARTZ and ELWOOD B. AYRES, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 7, 1922. Serial No. 527,588. 6 Claims. (Cl. 34—40.)



4. The combination in a drying apparatus, of a casing enclosing a drying chamber and a circulating chamber; fans for circulating air in the chambers; means for heating the air in circulation, each side wall of the drying chamber having vertical slots therein, the slots at one side alternating with those on the opposite side; a series of upper and lower rails at each side of the apparatus, the rails extending through the slots in the casing; frames guided by the rails, the frames, when located within the drier, closing the slots; and a carrier pivotally mounted on each frame, said carrier being provided with means by which a skin to be dried can be attached thereto.

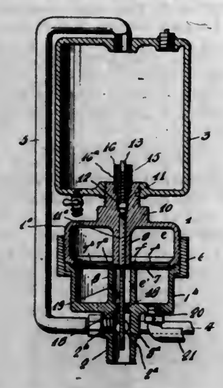
1,454,695. SPOTLIGHT. JAMES R. SHIRREFFS, Los Angeles, Calif.; James R. Shirreffs, jr., administrator of said James R. Shirreffs, deceased. Filed June 7, 1921. Serial No. 475,651. 8 Claims. (Cl. 240—41.)



1. In a device of the nature disclosed, a reversible lamp housing having opposed ports at its portion of greatest diameter and positioned coincident to the vertical axis of the housing whereby in either position of the housing one of the ports functions as a means for draining water from the interior of the housing, and cover plates spaced from and bridging over the respective ports.

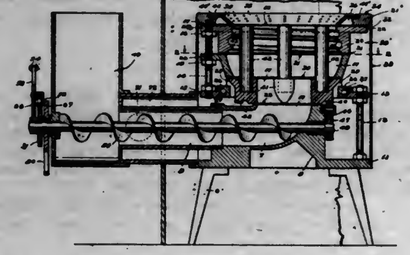
1,454,696. OILING DEVICE. ROY H. STULL, Sunbury, Pa., assignor of three-tenths to Norman Suhrie, Sunbury, Pa. Filed Oct. 26, 1921. Serial No. 510,423. 7 Claims. (Cl. 184—56.)

1. In an oiling device, a reservoir having an outlet, a normally closed valve controlling said outlet, a casing, a wall dividing said casing into two compartments, said compartments being connected by a restricted orifice and by a normally closed port, and said wall being movable in response to relative changes in pressure in said com-



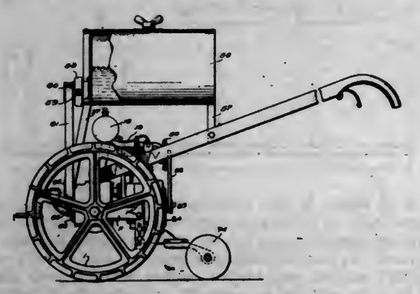
partments to open said valve and port, and means for causing fluctuations in pressure in one of said compartments.

1,454,697. UNDERFEED FURNACE. MERLE J. WIGHTMAN, Seattle, Wash. Filed May 26, 1919. Serial No. 299,805. 9 Claims. (Cl. 110—45.)



1. An underfeed furnace, comprising a circular fire pot, means for feeding fuel upwardly into said fire pot and means for effecting the depression within said fire pot of the peripheral portion of the fuel.

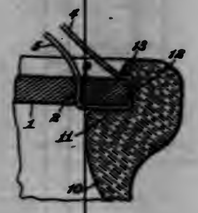
1,454,698. POWER TRACTOR. ALBERT G. BYERLEY, Salem, Ohio. Filed Feb. 17, 1921. Serial No. 445,644. 9 Claims. (Cl. 180—19.)



1. In a two-wheeled power vehicle, an axle, traction wheels mounted thereon, a housing for said axle, said housing forming the frame of the vehicle, a pair of

brackets secured to said housing and projecting therefrom, an engine, means for removably securing said engine to said brackets, said engine including a crank shaft, a pinion carried by said crank shaft, a drive shaft, a gear carried by said engine and meshing with the pinion on the crank shaft of the engine, means for detachably connecting said gear with said drive shaft, a worm mounted on said drive shaft, a worm gear loosely mounted on said axle, a clutch keyed to said axle and adapted to engage said worm gear, and means for operating said clutch.

1,454,699. BOTTLE OR JAR SEAL. WILLIAM CHAFFIN, Huntington, W. Va., assignor to Harold B. Crowell and C. C. Crowell, both of Plattsburg, N. Y. Filed May 22, 1922. Serial No. 562,656. 7 Claims. (Cl. 215—51.)

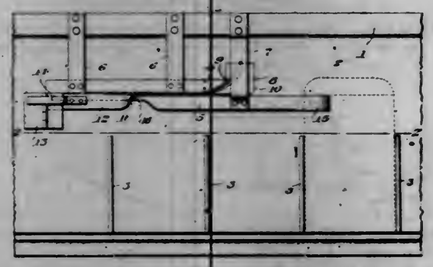


1. A bottle seal comprising a disk having an opening extending therethrough, a string extending through said opening and having end portions arranged to be exposed on the outer side of the disk, and a filler of cementitious material both hermetically sealing said opening and securing the string therein.

1,454,700. COMPOSITION FOR AND METHOD OF MANUFACTURING SOUND AMPLIFIERS. PASCAL CHARUEST and HENRI HORMISDAS DUCHESNE, Montreal, Quebec, Canada, assignors to Benoit and Mathieu, Montreal, Quebec, Canada. Filed Dec. 24, 1921. Serial No. 524,787. 4 Claims. (Cl. 106—39.)

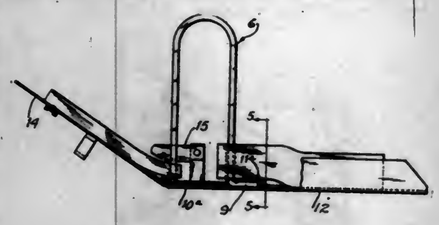
1. A composition for the construction of resonant sound amplifiers, consisting of pulverized wood, starch and colophony.

1,454,701. ENVELOPE-CLOSING MEANS. FRANK CLARKE, Waco, Tex. Filed Apr. 30, 1921. Serial No. 465,677. 3 Claims. (Cl. 120—6.)



3. A device of the class described comprising a conveyor belt, a holding member having its forward end curving upwardly and its rear part cut away to leave a reduced flat part, a folding member associated with the holding member, said folding member having a knife edge at its front end and an upwardly extending flange having an outwardly curved front edge and a downwardly and outwardly intermediate twisted part and a spring actuated hinged member at the rear end of the folding means.

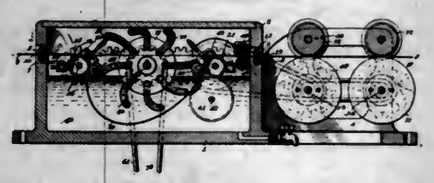
1,454,702. FILING DEVICE. THOMAS JAMES CLARKE, Jamestown, N. Y. Filed May 26, 1921. Serial No. 472,707. 8 Claims. (Cl. 129—24.)



6. In a filing device, a sheet holder including spaced parallel legs to extend through spaced holes in the sheet, said legs having feet to rest on a base, and a sheet support associated with said feet to space the sheets slightly above them to prevent accidental displacement or tearing of the sheets.

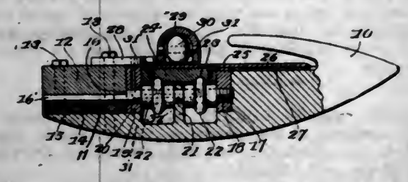
7. In a filing device, a drawer having a downwardly and forwardly movable hinged door, and an arched sheet-holding rack connected to the bottom of said drawer with one of its legs adjacent the hinge line of said door, whereby the sheets held by the inner leg of said rack may be slid along the crown of the arch onto the outer leg and supported by the door when open.

1,454,703. FILM-CLEANING APPARATUS. MAXWELL COHEN, Brooklyn, N. Y., assignor to American Film Cleaning Machine Company, Brooklyn, N. Y., a Copartnership composed of Maxwell Cohen, Henry Levy, and Maxwell Weinberg. Filed Feb. 7, 1921. Serial No. 443,073. 4 Claims. (Cl. 15—100.)



1. In a film cleaning apparatus, a tank adapted to contain a cleaning liquid, a revoluble scrubber mounted in the tank and having spaced flexible scrubbing strips, feeding devices in the tank at opposite sides of the scrubber, said feeding devices themselves feeding the film through the tank in loop formation, with the loop depending into the liquid below the scrubber, and a smooth roller below one of the feeding devices and against which the film is pressed by the flexible scrubbing strips of the scrubber.

1,454,704. CUTTER AND GUARD FOR MOWERS. WILLIAM N. COLEMAN, Jr., Culverton, Ga. Filed Dec. 15, 1921. Serial No. 522,535. 1 Claim. (Cl. 56—298.)



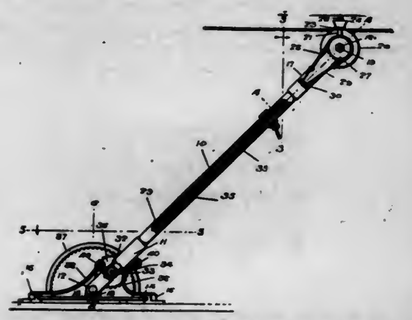
In a cutting mechanism for mowers, a guard finger having a rabbet in its rear portion, a support for the

finger secured within the rear portion of the rabbet, a vertical bar secured in the forward end of the rabbet, a second vertical bar secured in the rabbet rearwardly of the first vertical bar, a plate secured in the rabbet beneath the support and having transversely extending recesses, a shaft disposed in one of the recesses and through one of the said vertical bars and secured within the other vertical bar, a support for the shaft between the said bars, a peripherally ribbed roller on the shaft between the last-named support and each vertical bar, a slidable bar having its lower face grooved to receive the ribs of the rollers, and a roller supported above and engaging with the slidable bar.

1,454,705. METHOD OF EXTRACTING OIL. FRANK P. CROFT, Philadelphia, Pa. Filed June 25, 1917, Serial No. 176,836. Renewed Sept. 12, 1922. Serial No. 587,847. 2 Claims. (Cl. 87—6.)

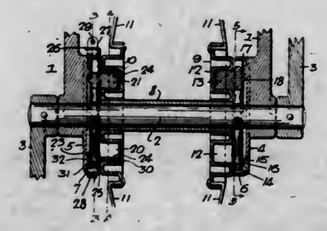
1. The method which consists in coarsely grinding oil-bearing material; heating said material to remove practically all of the moisture therein; grinding said material to a relatively fine form; and then subjecting said material to a relatively high pressure to express the oil therefrom.

1,454,706. TROLLEY-POLE SAFETY DEVICE. GEORGE W. DAGUE, Oklahoma, Okla. Filed May 12, 1922. Serial No. 560,425. 10 Claims. (Cl. 191—73.)



1. A trolley pole mounted for swinging movement to different inclined positions, a member relatively to which the pole is movable, upstanding guiding means carried by the upper end of the pole, and means for maintaining the guiding means in upstanding position in the different inclined positions of the pole operated by the movement of the pole relatively to said member.

1,454,707. COASTER BRAKE. CLARENCE M. DAVIS, Cape May, N. J., assignor, by mesne assignments, to A. Mecky Company, a Corporation of Pennsylvania. Filed July 14, 1921. Serial No. 484,656. 16 Claims. (Cl. 192—6.)

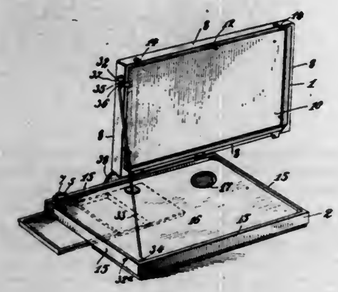


2. The combination in a coaster brake of a wheel having two plates; a crank shaft; a clutch operative to connect one of the plates to the shaft when the latter is turned in one direction; and a second clutch for connecting the second plate to the shaft when it is turned in the opposite direction.

1,454,708. MANUFACTURE OF CARBON BISULPHIDE. ALBERT ERNEST DELPH, Wokingham, England, assignor to Courtaulds Limited, London, England. Filed Mar. 31, 1922. Serial No. 548,533. 2 Claims. (Cl. 23—10.)

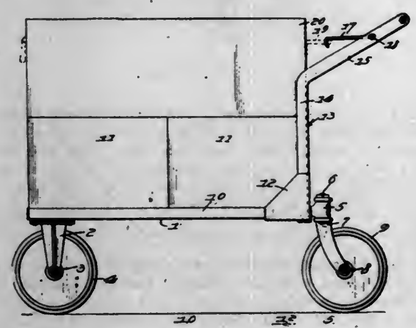
1. In making carbon bisulfid by processes involving a treatment with sulfur in a retort at about a red heat, the improvement which comprises carrying out such treatment in a retort composed of a ferrous metal having a firmly adherent coating of metallic aluminum.

1,454,709. ARTIST'S SKETCH BOX. GEORGE F. DOUGLAS, New York, N. Y. Filed Oct. 18, 1919. Serial No. 331,553. 9 Claims. (Cl. 41—4.)



1. An artist's sketch-box comprising a panel-frame and a palette-frame, means connected to said frames adapting one to pivotally engage the other in a plurality of positions relatively to the other, said means comprising a pair of leaves, one leaf having a pintle and the other a knuckle adapted to embrace the pintle.

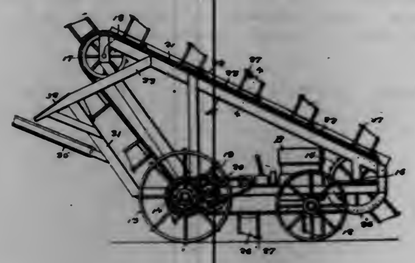
1,454,710. TRUCK. CHARLES M. DRINKWATER, Kokomo, Ind., assignor, by mesne assignments, to The Mechanical Development Company, a Corporation of Delaware, and C. M. Drinkwater, New Rochelle, N. Y. Filed May 2, 1921. Serial No. 466,245. 5 Claims. (Cl. 280—49.)



1. A truck including a platform mounted on supporting wheels and provided with a short upwardly extending

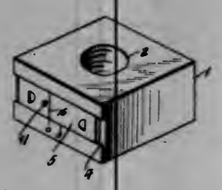
border flange, and handle bars secured to the platform and forming grooves extending upwardly from said platform and arranged in alignment with the corner recesses formed by said flange at one end of the platform.

1,454,711. EXCAVATING MACHINE. FREDERIC J. DUSSAULT, Butte, Mont. Filed May 5, 1920. Serial No. 379,127. 1 Claim. (Cl. 198—11.)



An excavating machine comprising a movable support having front and rear axles, wheels mounted on said axles, a substantially triangular shaped frame having one side horizontally mounted on the said axles with one end thereof extending beyond the front wheels and a second side extending upwardly and outwardly beyond the rear wheels, vertical supports connecting the third side with the two said sides, a plurality of sprocket wheels mounted at each corner of the frame, endless chains trained around said sprocket wheels, spaced buckets carried by said chains, an endless belt mounted over the chains beneath the buckets, and means for rotating the chains.

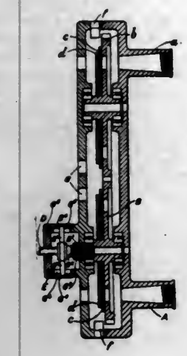
1,454,712. NUT LOCK. JULIUS D. ELLIS, Fulton, N. Y. Filed Jan. 20, 1922. Serial No. 530,626. 6 Claims. (Cl. 151—5.)



1. A nut lock comprising a lock bolt, a rocker associated with said lock bolt, a slide, and means forming a connection between said rocker and said slide, and the parts being so disposed that rectilinear movement of the slide effects longitudinal movement of the lock bolt to secure or release the nut as required.

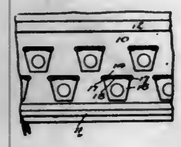
1,454,713. STROBOSCOPIC APPARATUS. ARTHUR JOHN HAWES ELVERSON, Reading, England, assignor to Herbert Kennedy & Company Limited, London, England. Filed Sept. 11, 1920. Serial No. 409,725. 14 Claims. (Cl. 88—14.)

1. In a stroboscopic apparatus for studying the movement of a body having a shaft rotating at a relatively high speed and capable of rotating at different speeds, the combination of a rotating member driven from said shaft, flash-timing means operated by said rotating member and selective means whereby said flash-timing means



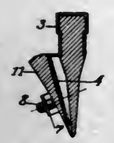
may be actuated to produce each of a plurality of different whole numbers of flashes per revolution of said member.

1,454,714. INDEX FOR FILING DEVICES. CARLO U. FINOCCHIARO, New York, N. Y. Filed Oct. 19, 1922. Serial No. 595,615. 2 Claims. (Cl. 40—16.)



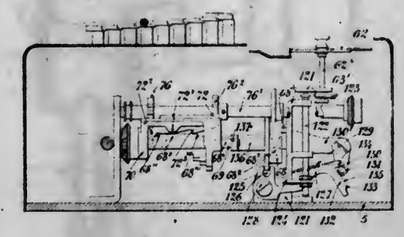
2. In an index for filing devices a cabinet having a drawer with a transparent front panel, a plurality of guides in staggered relation disposed in the drawer, in which may be examined through the glass panel cards with titles of articles position in the cabinet in associated relationship relatively to the guides.

1,454,715. COMBINED COMB AND HAIR CUTTER. CHARLES ADOLPHE FONTAINE, Paris, France. Filed Jan. 6, 1922. Serial No. 527,414. 3 Claims. (Cl. 30—12.)



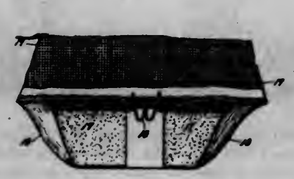
1. The combination of a comb formed with longitudinal grooves on opposite sides thereof, a member slidably mounted on the comb having a body portion formed to extend around the back of the comb and fit in said grooves, and a plate portion extending from the body portion at one side, offset from the comb at the upper end and engaging the teeth thereof near the lower ends, and means for securing a razor blade to the outer side of the plate.

1,454,716. COMPUTING MACHINE. LOUIS FOURNIER and GÉRARD MANO, Paris, France. Filed Jan. 25, 1922. Serial No. 531,805. 15 Claims. (Cl. 235—184.)



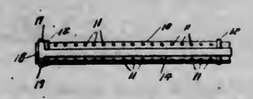
1. In a tens-carrying mechanism for computing machines, the combination of a stepped drum, a movable tooth on said drum, means for causing said tooth to project from the drum on the passage of tens and auxiliary means for accelerating the motion of the movable tooth.

1,454,717. CORD GRIPPING AND SECURING DEVICE. AARON M. ADAMS, Philadelphia, Pa. Filed June 11, 1920. Serial No. 388,295. 1 Claim. (Cl. 24—131.)



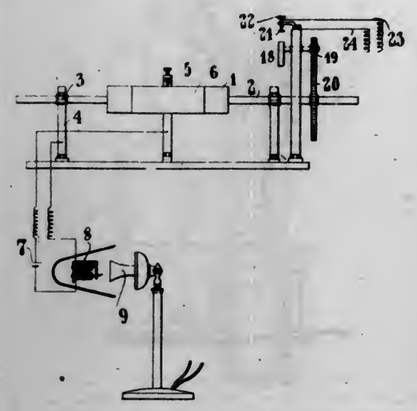
As a new article of manufacture, a gripping and securing member comprising a single piece of wire bent to form a straight portion and then having parts bent upon themselves to form auxiliary straight portions folded on the first mentioned straight portion and with said first mentioned straight portion forming gripping loops, the ends of the wire being then bent outwardly and away from the first mentioned straight portion and bent upon themselves to have the extremities of the wire converge, meet and abut against the first mentioned straight portion at the medial part thereof.

1,454,718. HAIR CURLER. ELNORA E. BALDWIN, Rand, Colo. Filed Apr. 13, 1922. Serial No. 552,087. 3 Claims. (Cl. 132—41.)



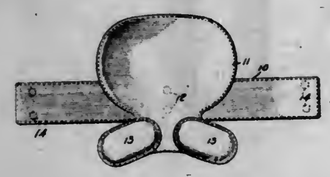
1. A hair curler having a body about which hair is curled, a clasp provided with a clasp portion to engage the body and with a tongue disposed substantially at right angles to the clasp portion, and said portion and tongue being engageable with the body.

1,454,719. FACSIMILE TRANSMISSION SYSTEM. HARRY GUY BARTHOLOMEW, London, England. Filed May 18, 1922. Serial No. 561,911. 2 Claims. (Cl. 178—5.)



1. The herein described process of facsimile transmission consisting in translating a pictorial representation to operate a sound producing device in order to produce sound signals, translating said sound signals into current impulses and transmitting said current impulses to a receiving station, and reproducing the sound signals at said receiving station and re-translating the sound signals to produce a reproduction of the pictorial representation.

1,454,720. TRUSS. GEORGE A. BERRY, Modesto, Calif. Filed May 19, 1921. Serial No. 470,966. 7 Claims. (Cl. 128—107.)

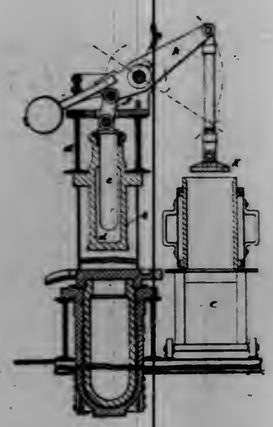


5. A truss including a carrying element, a broad stiff pressure plate secured at its medial line to said element at the approximate center of the latter, and pads on the plate, said pads being disposed at opposite sides of the medial line and oblique to the latter in planes at an angle to each other, said plate being deflected rearwardly at its upper portion to overhang said pads.

1,454,721. HYDRAULIC OIL PRESS. WILHELM BICKEL, Stuttgart, Germany. Filed Nov. 29, 1920. Serial No. 427,219. 3 Claims. (Cl. 100—50.)

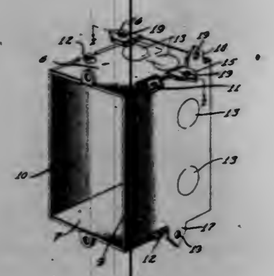
3. In a hydraulic oil press, a sleve cylinder, a pressing piston cooperating with the said cylinder to express the

oil from the seed, said pressing piston being formed as a cylinder, a piston operative in said pressing piston



cylinder, and a pusher-out for emptying the sieve cylinder, said pusher-out being adapted to be operated by the piston of the pressing piston cylinder.

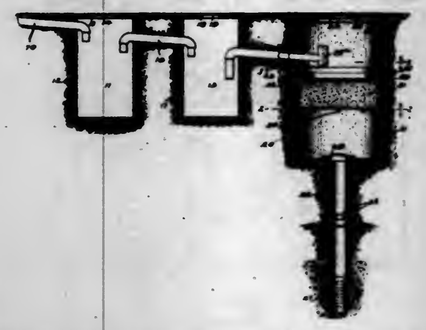
1,454,722. SWITCH BOX. LEO BOUTIN, New York, N. Y. Filed May 29, 1922. Serial No. 564,365. 10 Claims. (Cl. 247—21.)



1. A switch box or the like provided with spurs projecting from the external surface thereof, said spurs being so formed and arranged as to be capable alternatively of being driven into a support, or of being engaged by a nail.

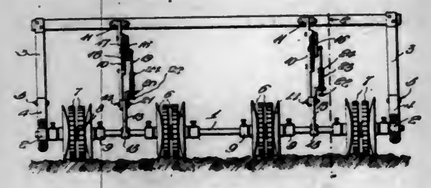
1,454,723. FILTER BED FOR SEWAGE DISPOSAL. WILLIAM THOMAS BURTIS, Glen Head, N. Y. Filed Aug. 7, 1922. Serial No. 580,159. 2 Claims. (Cl. 210—5.)

1. A system of sewerage disposal comprising in combination with a conduit having means interposed therein for intercepting and removing the solid or semi-solid substances, a filter bed having an intake at its upper end communicating with the outlet end of said conduit, said filter bed comprising a cylindrical body having a closed lower end, a downwardly extending outlet pipe in said lower end embedded in the ground, a filtering element interposed between the filter bed intake and outlet, said



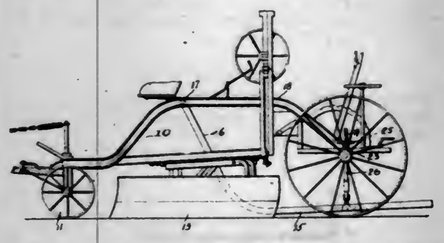
filtering element being removable through the upper open end of the filter bed, and a closure normally closing the upper end thereof.

1,454,724. CRUST-BREAKING ATTACHMENT FOR BEET CULTIVATORS. GEORGE W. CAREY, Oshkosh, Nebr. Filed Sept. 28, 1922. Serial No. 591,128. 4 Claims. (Cl. 97—218.)



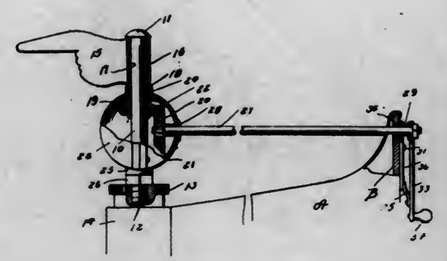
1. A crust breaking attachment for cultivators comprising a shaft and means for connecting it with the cultivator, a pair of spaced concavo-convex disks on said shaft with their convex sides disposed adjacent each other in spaced relation, said disks being intended to straddle a row of sprouting plants, and a pair of slightly spaced toothed wheels on said shaft between said disks to break the surface of the ground over the sprouts.

1,454,725. ATTACHMENT FOR GRADERS. ANTON CIMFL, Rice Lake, Wis. Filed June 22, 1921. Serial No. 479,491. 4 Claims. (Cl. 37—150.)



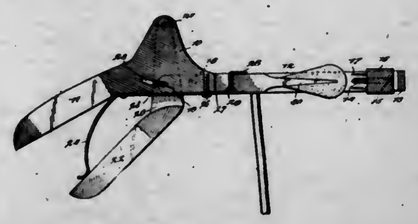
1. The combination with a road grading machine, of an attachment therefor adapted to be thrown into a road surface engaging position alongside of the rear supporting wheels for the purpose of bridging a depression in the road bed to prevent the dropping of the rear wheels and the grader blade below the level of the road surface, said attachment comprising a runner having pivotal connection to the machine frame at its forward end to permit of vertical swinging movements thereof, an upstanding threaded stem having pivotal connection to said runner, and a rotary interiorly threaded manipulating member swivelly mounted on the grader above said runner and threadedly engaging the stem for effecting vertical adjustments of the runner.

1,454,726. TRAFFIC SIGNAL FOR VEHICLES. HENRY J. COLLINS, Providence, R. I. Filed July 27, 1922. Serial No. 577,870. 4 Claims. (Cl. 116—46.)



1. A traffic signal including a rod, an indicator journaled on said rod, a casing surrounding said rod and on which said indicator rests, said indicator having a sleeve extending into the casing, a gear wheel on said sleeve and within the casing, driving means extending into said casing and cooperating with said gear, a fastening member on said rod below and upholding said casing, and said rod extending below said fastening member for attachment to a support.

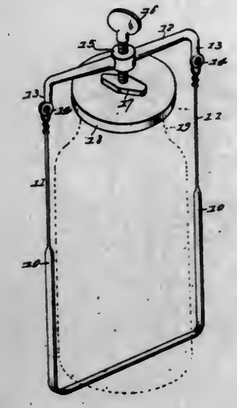
1,454,727. TONE REGULATING DEVICE. RAYMOND E. CRISSEY, Syracuse, N. Y. Filed July 15, 1921. Serial No. 484,971. 4 Claims. (Cl. 84—460.)



3. In a device of the class described, the combination of a stationary member formed with a handle at one end and a way at the other end and an intermediate slot, an adjustable member secured to said stationary member and provided with a seat extending into said way, a needle carrying member slidably mounted in said way, parallel links for moving said needle carrying member in said way, a movable handle pivotally secured to said stationary member, and a pivot pin secured to said movable handle and extending through said intermediate slot in said stationary member, as and for the purpose set forth.

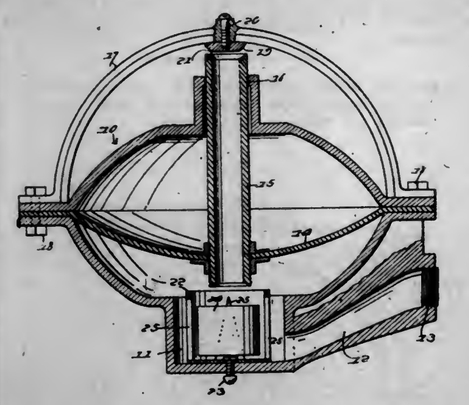
1,454,728. JAR-TOP-FASTENING DEVICE. JAMES M. CRUSE, Waco, Tex. Filed June 7, 1920. Serial No. 387,260. 1 Claim. (Cl. 215—88.)

As an article of manufacture, a jar top fastening device consisting of a cross head carrying a follower plate and a flexible loop to extend beneath the jar and bear upon the bottom thereof, the cross head having depending arms to which the extremities of the loop are loosely connected



and serving under the tension of the loop, due to the adjustment of the follower screws, to maintain the cross head in operative position on the jar top or cover.

1,454,729. ANTIVACUUM RELIEF VALVE FOR HEATING SYSTEMS. HOMER O. CURTIS, South Sandisfield, Mass. Filed Sept. 7, 1920. Serial No. 408,535. 5 Claims. (Cl. 137—122.)

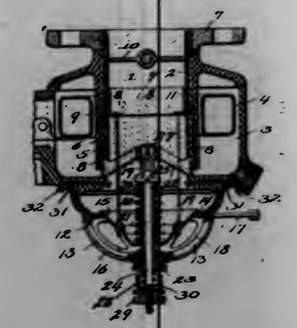


1. A relief valve mechanism for low pressure steam heating systems having a relief valve tube, a diaphragm operatively connected to said tube and adapted for exposure to steam pressure, a tube closing seat engageable by said valve tube at one end as a result of pressure applied to the diaphragm, and a fluid valve actuable by water of condensation for closing the other end of said valve tube.

1,454,730. CARBURETOR. CHARLES DE LUKACSEVICS, Newark, N. J., and JULIUS J. WITTAL, New York, N. Y., assignors, by mesne assignments, to Julius Winter, New York, N. Y. Filed Apr. 7, 1917. Serial No. 160,524. 2 Claims. (Cl. 261—12.)

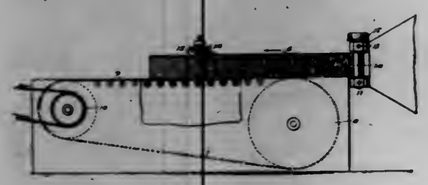
1. A carburetor for internal combustion engines having a body including a carbureting chamber, means for ad-

mitting fuel and air thereto, said body being formed of a phenol condensation product.



2. A carburetor having a body composed of a phenol condensation product and having inner and outer walls forming a fuel chamber, said inner wall being grooved and having a wall in sleeve relation thereto forming a carbureting chamber, means for admitting fuel and air thereto, a metallic wall interposed between said inner wall and the wall of said carbureting chamber, said metallic wall and the wall of the carbureting chamber being provided with angularly disposed ducts affording communication between said grooves and the carbureting chamber, and heating means embedded in said outer wall in the vicinity of said metallic wall, whereby heat may be conducted and distributed throughout said carbureting chamber.

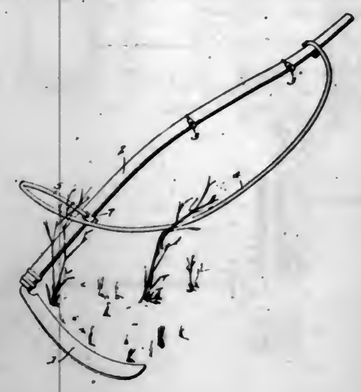
1,454,731. SURFACING MACHINE. WILLIAM H. FRANCIS, Cherryvale, Kans. Filed Apr. 19, 1922. Serial No. 555,650. 7 Claims. (Cl. 25—20.)



1. A surfacing machine including a conveyor adapted to receive a column of material, means adjacent to said conveyor for digging into the face of said column, said means including a rotatable member having a digging edge elongated axially of the member and rigidly carried by said member and means for rotating said member in the direction opposite the direction of movement of the column of material on the conveyor whereby on regulating the speed of rotation of the member the digging edge thereof operates to remove material from the column, convey such removed material away from and then toward the column, and redispose such removed material on the column.

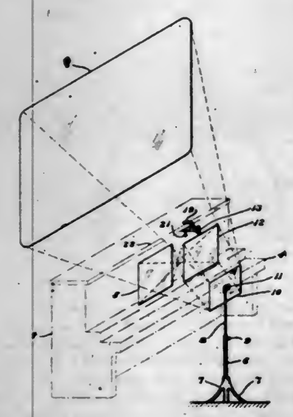
1,454,732. ATTACHMENT FOR SCYTHES. DAVID M. FRIEDT, Dundee, Ohio. Filed July 25, 1921. Serial No. 487,421. 1 Claim. (Cl. 56—325.)

In combination with a scythe including a handle and hand grips therefor, of a strip removably secured to the handle adjacent each end, and extending upwardly therefrom enclosing the hand grips thereon, one end of said strip crossing the handle and being spaced therefrom a



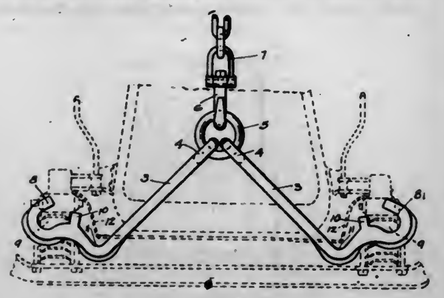
greater distance at the crossing point than at any other point in its length, said strip bent downwardly beyond the crossing point and extending toward the handle for connection therewith and for the purpose specified.

1,454,733. ORCHESTRA LEADER'S PICTURE REFLECTOR. CLOYD A. GRISSINGER, Mount Union, Pa. Filed Feb. 11, 1922. Serial No. 535,868. 1 Claim. (Cl. 88—1.)



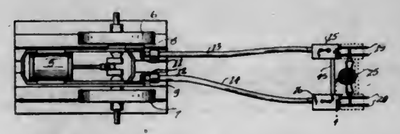
In the device of the class described, the combination with a moving picture screen and a musical instrument including means for supporting sheet music, of a mirror, means for securing said mirror to said musical instrument in juxta-position to the sheet music, a second mirror and supporting means therefor independent of said musical instrument and capable of supporting said second mirror in such relation to said picture screen and to the first said mirror as to effect a reflection of the image in reduced form in the first said mirror.

1,454,734. AUTOMOBILE HOOK. WILLIAM C. GRUNER, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 513,999. 5 Claims. (Cl. 294—78.)



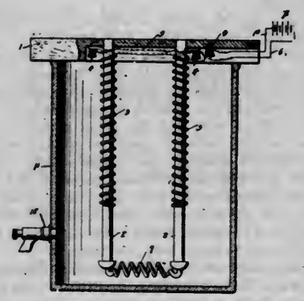
1. A device of the class described comprising two hook members connected at one end by means of a ring, each member being bent outwardly at an angle and forming a depression and being provided with upwardly opening claw-like, hook means at the free end.

1,454,735. TREE-FELLING MACHINE. JOHN EARSLEY HAMLIN, Weed, Calif. Filed Oct. 29, 1921. Serial No. 511,381. 2 Claims. (Cl. 143—68.)



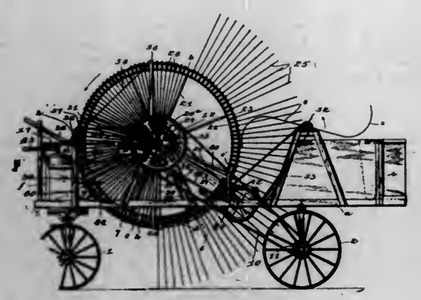
1. In a tree felling device, the combination of power means, flexible shafts extending forwardly from said power means, tracks secured to the tree to be felled, casings slidable on said tracks, a saw extending between said casings, drums within said casings, the ends of said saw being attached to said drums, gearing within each of said casings, a cam on each of said shafts, a clutch mechanism between each of said shafts and said saw, said clutch means being adapted to alternately move said saw, and means for engaging and disengaging said clutches intermittently and alternately with respect to each other.

1,454,736. ELECTRIC WATER STERILIZER AND PURIFIER. WILLIAM T. HARRELL, Wichita, Kans. Filed Aug. 8, 1922. Serial No. 580,417. 1 Claim. (Cl. 204—25.)



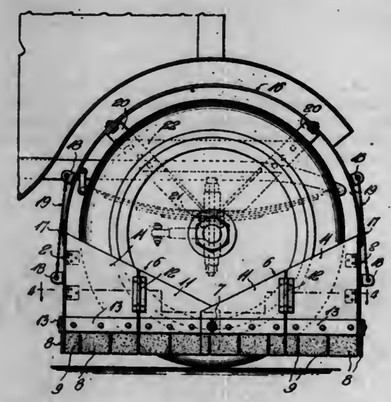
A water sterilizer and purifier, comprising a head, rods of insulating material secured at one end to said head, wire coils mounted upon the rods and constituting electrodes which are electrically connected at their upper ends, a wire coil supported between the lower ends of the rods, and a conductor passing through one of the rods and electrically connected with the electrodes at the ends thereof.

1,454,737. COTTON-PICKING MACHINE. WILLIAM T. HARRIS, Virgilina, Va., LEE F. HAMME, Oxford, N. C., and WILLIAM T. HOOFNAGLE, Glen Ridge, N. J. Filed Jan. 6, 1922. Serial No. 527,433. 8 Claims. (Cl. 56—46.)



2. In a cotton picking machine, a carrier rotatable about a horizontal axis, a plurality of smooth surfaced picking needles radially movable in said carrier, means for moistening the needles, means for causing the needles to drop vertically into the cotton plants, means for rotating the needles in one direction when lowered, and in the opposite direction when raised from the plants, and means for stripping the cotton from the needles.

1,454,738. MUD GUARD. THOMAS HILTON, Walpole, Mass. Filed Mar. 9, 1922. Serial No. 542,315. 4 Claims. (Cl. 280—152.)



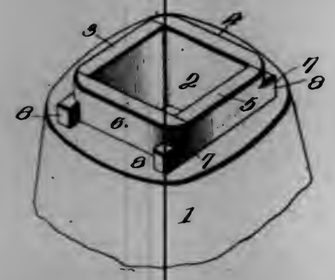
1. A mud guard of the class described embodying mounting means capable of being disposed in an out-of-the-way position, and means extending across the outer side of the lower portion of the wheel to prevent splashing of mud on pedestrians, said means comprising a pair of hinged sections, and each section being itself composed of hinged parts capable of being folded upon each other and against the aforesaid mounting means.

1,454,739. COFFEE CARTRIDGE. CLIFTON BENNET HOLLAND, Nashville, Tenn. Filed June 1, 1922. Serial No. 565,089. 4 Claims. (Cl. 53—3.)



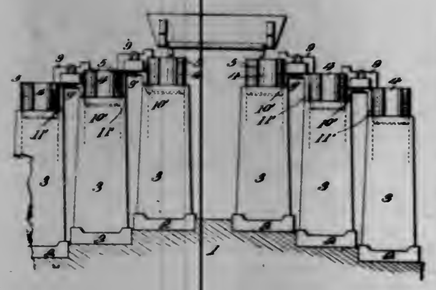
3. A coffee cartridge in the form of an annular substantially flat container formed from upper and lower pieces of coarse and fine fabric respectively, said pieces being stitched or otherwise connected together.

1,454,740. FEEDER FOR INGOT MOLDS. BLOOMFIELD H. HOWARD, Washington, D. C., and ERNEST J. TURNER, Pittsburgh, Pa. Filed Jan. 27, 1923. Serial No. 615,319. 15 Claims. (Cl. 22—147.)



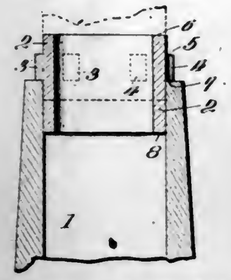
1. A feeder for ingot molds, comprising a body portion formed of a series of longitudinal sections provided with interlocking means for holding together said sections.

1,454,741. HOT TOP FOR MULTIPLE CASTING OF METAL INGOTS. BLOOMFIELD H. HOWARD, Washington, D. C., and ERNEST J. TURNER, Pittsburgh, Pa. Filed Feb. 3, 1923. Serial No. 616,721. 12 Claims. (Cl. 22—147.)



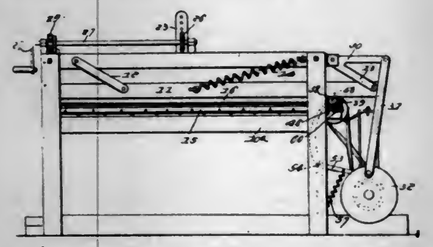
1. A hot top for ingot molds comprising a body portion having a discharge opening below the upper end.

1,454,742. REVERSIBLE FEEDER FOR INGOT MOLDS. BLOOMFIELD H. HOWARD, Washington, D. C., and ERNEST J. TURNER, Pittsburgh, Pa. Filed Feb. 12, 1923. Serial No. 618,545. 14 Claims. (Cl. 22—147.)



1. A feeder for ingot molds comprising a reversible body portion, and an integral projection carried by the body portion and adapted to support the feeder with either end in the mold.

1,454,743. BAG-CUTTING MACHINE. ISAAC C. HOWLETT, Bangs, Tex. Filed Jan. 3, 1922. Serial No. 526,691. 7 Claims. (Cl. 164—49.)

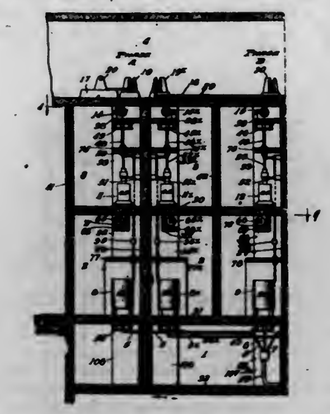


1. A machine for cutting a continuous strip of material into specified lengths, having a feed roll traversed by the material, a cutter mechanism having an intermittently movable member, a rotary driving member, a clutch for connecting the cutter mechanism with the driving member, and clutch shifting means having an actuating element movable in timed relation with said feed roll, and consisting of a rotary tappet head geared to the feed roll.

1,454,744. ELECTRIC-SWITCH-HOUSE CONSTRUCTION. BERTRAND G. JAMIESON, Brookfield, Ill. Filed Apr. 8, 1922. Serial No. 550,927. 98 Claims. (Cl. 175—298.)

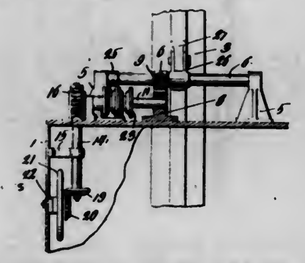
41. In a switch house, a main bus extending a substantial distance longitudinally, said bus comprising bus phase conductors spaced apart a sufficient distance to provide free room for workmen to pass between the phases, a plurality of line busses comprising each line bus phase conductors extending a limited distance parallel to the main bus conductors, said line bus phase conductors each lying in substantially the same plane as the corresponding main bus phase conductor, and substantially nonconducting barriers forming longitudinal channels for housing the main bus phase conductors and the line bus phase conductors, tie lines between the main bus conductors and the line bus conductors and cells extending between said channels for housing said tie lines.

59. In combination, a longitudinal vertical wall, an upper wall, an intermediate wall and a lower wall forming three floors, a line bus extending along the horizontal vertical wall and lying below the upper floor, a main bus extending longitudinally of the longitudinal vertical wall lying below the intermediate floor, a line conductor extending from the line bus vertically downward along the longitudinal vertical wall and passing through the intermediate and lower floors, vertical and horizontal barriers extending laterally from the main vertical wall to form a series of vertically aligned cells, a circuit breaker dis-



posed in a cell immediately above the intermediate floor, and a current limiting device disposed in a cell immediately above the lower floor, said circuit breaker and current limiting device being connected in series in said line conductor.

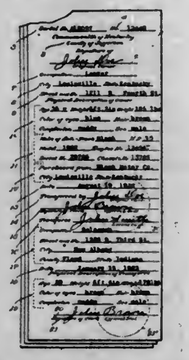
1,454,745. ELEVATOR BRAKE. ARCHIBALD G. JANES, Fitzgerald, Ga. Filed Feb. 15, 1922. Serial No. 536,833. 2 Claims. (Cl. 187—92.)



1. In combination, an elevator, a pair of rock shafts mounted on the elevator, actuating and actuated cranks extending from the rock shafts, brake shoes carried by the actuated cranks, chains carried by the actuating cranks, an auxiliary drive shaft journaled on the elevator, spools on the auxiliary drive shaft over which said chains are trained, a worm gear keyed to said auxiliary drive shaft, a driven shaft suitably journaled on the elevator so as to extend therethrough and terminate interiorly thereof, and means within the elevator for rotating said drive shaft.

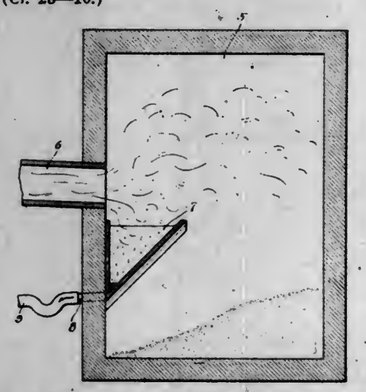
1,454,746. AUTOMOBILE TITLE-IDENTIFYING, THEFT DISCOURAGING AND DETECTING MEANS. CHARLES M. JONES, Louisville, Ky., assignor to Jones National Automobile Registration System, Inc., Louisville, Ky., a Corporation of Kentucky. Filed Jan. 25, 1923. Serial No. 614,869. 2 Claims. (Cl. 283—60.)

1. As an article of manufacture, an automobile and automobile possessor identifying and detecting unit bearing legended spaces for data identifying a particular automobile, legended spaces for data covering the physical characteristics of the first owner in rightful possession of the particular automobile, legended spaces for data covering the physical characteristics of an assignee of the particular automobile in rightful possession thereof on title derived from the first owner, and legended spaces for the signatures of the first owner, an assignee who is to derive title from said first owner, and a recording officer; the legended spaces for data covering the physical characteristics of the first owner preceding the legended spaces for data covering the physical characteristics of the assignee, and the two sets of said legended spaces for physical characteristics being arranged at opposite sides of legended spaces for the reception of the



signatures of the original owner, the assignee and recording officer, and the legended spaces for data covering the physical characteristics of the first owner being preceded by a legended line for the signature of said individual, and the legended spaces for data covering the physical characteristics of an assignee who is to derive title from the original owner being followed by a legended space for the signature of a recording officer, and the first-named legended spaces for the signature of the original owner, the signature of a recording officer and the signature of an assignee being grouped in close proximity whereby a single impressed seal will cover portions of all three signatures.

1,454,747. APPARATUS FOR MANUFACTURING FLOWERS OF SULPHUR. EDGAR KNAPP and JOHN KARL DICKERSON, Middleport, N. Y., and FREDERIK L. BEGTRUP, Louisville, Ky., assignors to Niagara Sprayer Co., Middleport, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 558,027. 9 Claims. (Cl. 23—10.)

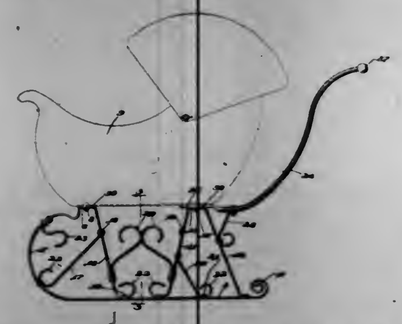


1. A device of the character described comprising a chamber, means for introducing sulphur vapors thereto, and means for collecting the liquid sulphur, said liquid-sulphur-collecting means being located within the chamber at a point adjacent that point at which the sulphur vapors are introduced.

1,454,748. PROCESS OF PREPARING ARSENO COMPOUNDS WHICH ARE STABLE IN SOLUTION. WILHELM KOLLE, Frankfort-on-the-Main, Germany, assignor to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 12, 1922. Serial No. 528,836. 8 Claims. (Cl. 260—15.)

6. As new products, the bodies obtainable by combining arsenobenzenes with sulphoxylate compounds of such amines as are not arsenobenzenes, said bodies being readily soluble in water, more stable in solution than their components, their dosis tolerata being considerably larger than the calculated dosis tolerata of the components, and their therapeutical value being substantially as great as the therapeutical value of the arsenobenzene component.

1,454,749. CONVERTIBLE-BABY-CARRIAGE RUNNER. ABE N. LADIN, Ironwood, Mich. Filed Mar. 13, 1922. Serial No. 543,496. 1 Claim. (Cl. 280—25.)



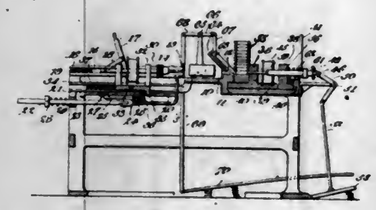
The combination with a baby carriage body, bolts for attaching the body to a running gear structure, of sled runners, comprising treads having their forward ends curved upwardly and shaped to provide horizontal attaching portions adapted to receive said bolts, substantially U shaped bracing members attached to said treads and having upper horizontal attaching portions adapted to receive certain of said bolts, said treads extending downwardly from the horizontal attaching portions thereon to provide braces.

1,454,750. ADJUSTABLE LADDER PLATFORM. GEORGE LE FLOHIC, Washington, D. C. Filed July 22, 1921. Serial No. 486,754. 3 Claims. (Cl. 304—34.)



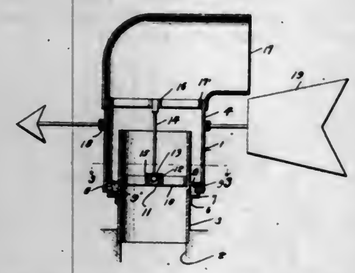
1. An attachment for ladders comprising a pair of brackets adapted to be slidably mounted on the side pieces of a ladder, a platform formed of two parts, each part having its ends pivoted to the bracket a distance from its inner edge so that when the two parts are moved out of alignment a space will be formed between them to permit the passage of a rung, the abutting edges of the two parts engaging a rung when said parts are in alignment.

1,454,751. DOWELING MACHINE. JOHN LITTLEFIELD, Bayonne, N. J. Filed Dec. 5, 1921. Serial No. 520,138. 17 Claims. (Cl. 144—31.)



1. In a machine for inserting dowels in the dowel holes in barrel heading and for cutting and pointing the dowels after insertion thereof in said dowel holes, means for clamping the barrel heading in fixed position, means co-related to the clamping means for inserting dowels in said dowel holes of the barrel heading, and means also in co-relation to the clamping means for cutting and pointing the dowels after the insertion thereof in said dowel holes.

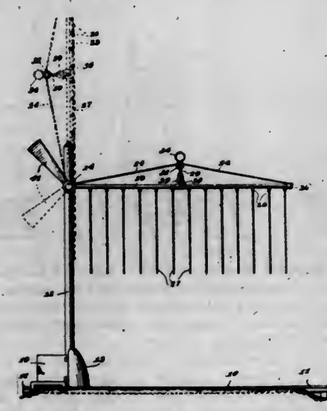
1,454,752. CHIMNEY COWL. WILLIAM T. MCCULLOUGH, Salem, Mo. Filed Nov. 5, 1920. Serial No. 421,977. 1 Claim. (Cl. 98—3.)



A cowl having an anchoring section, a hood section into which said anchoring section extends and relatively to which it moves axially, an elbow section on the hood section, a ring within the hood section, a rod depending from said ring substantially centrally of the hood section and into the anchoring section, said rod having an enlarged lower end, means in the anchoring section to journal said enlarged end, a removable plate on said rod disposed over said enlarged end to secure said rod to the anchoring section, a track wall surrounding the anchoring section and spaced therefrom, an angle iron rigid with and at the base of the hood section, one of the walls of said angle iron being disposed vertically, peripherally grooved rollers within the angle iron journaled on said last mentioned wall to engage said track at their grooves and the other wall of the angle iron extending inwardly and having an opening of greater cross sectional area than the anchoring section whereby it will be maintained spaced therefrom by the engagement of the rollers with the track.

1,454,753. HIGHWAY SIGNAL FOR RAILROAD CROSSINGS. JESSE M. MCGHEE, Knoxville, Tenn. Filed Aug. 19, 1921. Serial No. 493,609. 9 Claims. (Cl. 246—486.)

9. A highway signal for railroad intersections comprising a post, a shaft mounted transversely in the upper end of the post, means for reciprocating the shaft, an arm connected to the shaft and projecting from the post and adapted to be raised and lowered upon operation of the shaft, a triangular frame mounted in inverted position upon the intermediate portion of said arm, a brace wire connected to the ends of the arm and extending



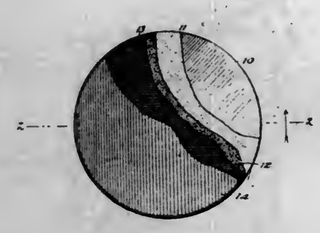
through the upper portion of said frame to brace the frame and the arm, a plurality of signal lights mounted on the frame for indicating position of danger at opposite sides of the roadway, a gong mounted in the frame for sounding a danger signal, and a plurality of pendants spaced along said arm adapted for contact with vehicles passing beneath the arms when lowered.

1,454,754. GARTER. ABRAHAM M. MALOUF and FRED M. MALOUF, Brooklyn, N. Y. Filed June 27, 1921. Serial No. 480,582. 2 Claims. (Cl. 24—245.)



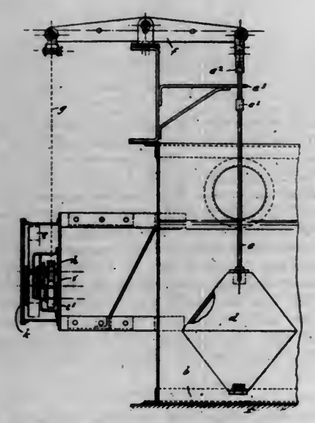
1. A device of the class described comprising a strap fashioned into a main loop including an inner member and an outer member, the outer member being extended to form the outer member of an auxiliary loop, the inner member of which is located between the outer members of the loops; means for uniting the members of the loops to close them at one end; a keeper supported in the other end of the auxiliary loop; and a rider slidable upon the outer member of the main loop and cooperating with the keeper, the rider being supported in the other end of the main loop.

1,454,755. REFLECTOR. ALBERT MATISSE and CARL A. MATISSE, New York, N. Y. Filed May 20, 1922. Serial No. 562,549. 4 Claims. (Cl. 88—1.)



4. As a new article of manufacture, a reflector of the class described, comprising a yellow glass made from silica, minium, carbonate of potash, niter, carbonate of lime, borax, oxide of cadmium, and a reflecting back for reflecting a yellow ray applied to said yellow glass comprising a gold salt, a silver salt, a metal applied by electroplating process, and a protector applied to the metal.

1,454,756. APPARATUS FOR INDICATING THE DENSITY OF LIQUIDS AND AUTOMATICALLY GRADING THE SAME ACCORDING TO THEIR DENSITY. JAMES LESLIE MENNELL, London, England, assignor to Chas. Butters & Co. Limited, London, England. Filed Nov. 30, 1920. Serial No. 427,402. 6 Claims. (Cl. 210—55.)

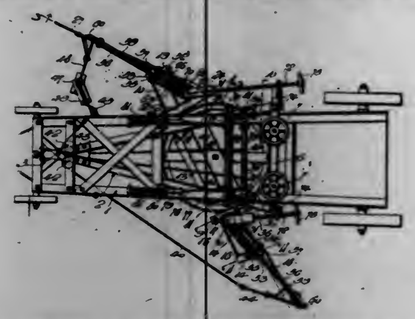


1. An apparatus for classifying liquid according to its density, comprising a hydrometer balance, an electric switch actuated thereby to traverse a series of electric contacts, an electric motor controlled by said switch and operating to swing a pivoted launder into definite positions, substantially as described.

1,454,757. ATTACHMENT FOR ROAD SCRAPERS OR GRADERS. PETER C. MERILLAT, Winfield, Iowa. Filed Dec. 27, 1921. Serial No. 525,078. 12 Claims. (Cl. 37—155.)

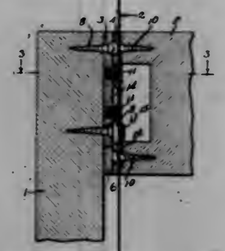
1. The combination with a road scraper including a frame, a turn-table, and a road scraping blade carried thereby, of auxiliary scraping blades connected with the end portions of the first mentioned scraping blade, and

means connected with one of the auxiliary blades for bracing the blades and table against turning in one



direction and for turning the blades and table in an opposite direction to adjust the angular position of the blades.

1,454,758. LOCKING JOINT. LAWRENCE W. MURPHY, West Haven, Conn. Filed Dec. 7, 1921. Serial No. 520,565. 2 Claims. (Cl. 20—92.)



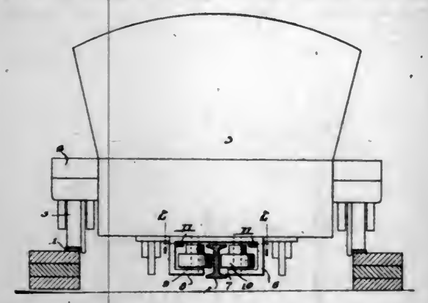
1. A joint device of the character described, comprising a pair of members, one of said members movable longitudinally relative to the other, one member of general channel shape and the other member movably fitting within the channel and of a thickness corresponding to the depth of the flanges of the channel, said channel member having a longitudinal slot therein, the longitudinal walls thereof being tapered, said tapered walls having opposed recesses constituting an entrance, and a stud on the other member adapted to be projected through the entrance and having a taper corresponding to the taper of the walls of the slot whereby when the stud is in the slot and one member moved longitudinally relative to the other the two members may be locked together.

1,454,759. SEALING-WAX STICK. AUGUST NADLER and JOHN R. KINGHORN, Brooklyn, N. Y. Filed May 17, 1921. Serial No. 470,354. 2 Claims. (Cl. 87—19.)

1. As an article of manufacture, a sealing wax consisting in the combination with the usual ingredients, of a quantity of rapidly combustible fibrous material, the quantity of said fibrous material being in a proportion of approximately one per cent with respect to the entire ingredients.

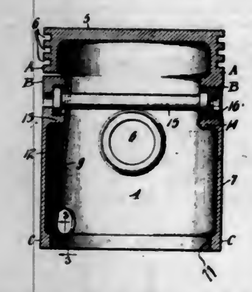
1,454,760. ROLLER-COASTER SAFETY APPLIANCE. MICHAEL J. NEARY, Scranton, Pa. Filed June 24, 1922. Serial No. 570,535. 1 Claim. (Cl. 104—246.)

In safety appliance for roller coasters, scenic railways and analogous railways, the combination of appropriately supported rails, an appropriately supported longitudinal I-beam arranged intermediate of the rails, a car with wheels arranged to travel on the rails, a housing carried at and rigidly and directly connected to the bottom of the car and having a top wall and a bottom wall and an opening in the bottom wall for the projection of the I-beam received in the housing, and freely revoluble hori-



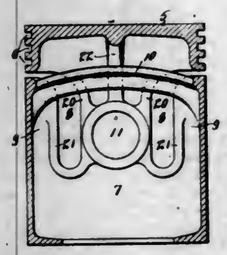
zontally disposed wheels centrally mounted in the housing between the top and bottom walls thereof and also arranged at opposite sides of the web of the I-beam and in spaced relation to the upper and lower portions or flanges of said I-beam.

1,454,761. PISTON. ADOLPH L. NELSON, Indianapolis, Ind., assignor of one-third to Charles S. Crawford, Indianapolis, Ind. Filed Oct. 27, 1920. Serial No. 419,938. 12 Claims. (Cl. 74—108.)



11. A piston having a head and a skirt, a flexible tongue in the skirt between the piston pin openings, and a distance piece of less expansible material extending across the piston and connected at one end to the tongue, substantially as set forth.

1,454,762. PISTON. ADOLPH L. NELSON, Indianapolis, Ind., assignor of one-third to Charles S. Crawford, Indianapolis, Ind. Filed Mar. 7, 1921. Serial No. 450,189. 4 Claims. (Cl. 74—108.)



3. A piston comprising a head and a skirt with wrist-pin bearings, said skirt being also formed with slots sepa-

rating the head from the bearing sides of the skirt at the upper end of said sides and an arched brace connecting said separated portions, substantially as set forth.

1,454,763. WATCH GUARD. PHILIP H. NOLTING, Jersey City, N. J. Filed Feb. 10, 1922. Serial No. 535,641. 3 Claims. (Cl. 2—153.)

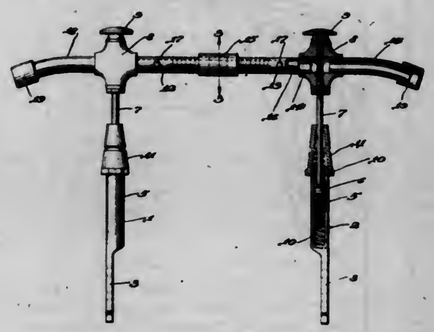


1. The combination with a pocket, of an arcuate spring watch guard secured at its intermediate portion to the bottom of the pocket, and adapted to embrace a watch in the pocket, said guard being bifurcated at one end to receive the stem of a watch in the pocket.

2. In a watch guard, an arcuate spring body shaped to receive a watch, said arcuate spring body being bifurcated at one end to receive a watch stem, and a casing stretched over the spring body.

3. In a watch guard of the character described, an arcuate spring body portion shaped to receive a watch, said spring body portion being bifurcated at one end, the prongs of said bifurcated end being curved to receive and grip the watch stem.

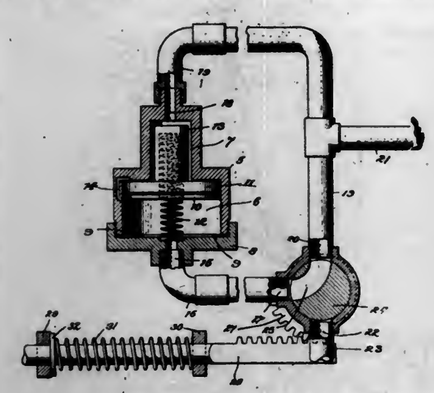
1,454,764. BUMPER. WILLIAM E. O'BRIEN and JOSEPH SMITH, Chicago, Ill. Filed Feb. 14, 1922. Serial No. 536,442. 8 Claims. (Cl. 293—55.)



4. In a bumper for motor vehicles, attaching members, rods yieldably carried by said attaching members, couplings carried by said rods, tubes detachably carried by said couplings and extending transversely to said rods, and means adjustably connecting the facing ends of said tubes to permit adjustment of the distance between said rods, and tubular extensions carried by said couplings and projecting outwardly therefrom transversely to the rods.

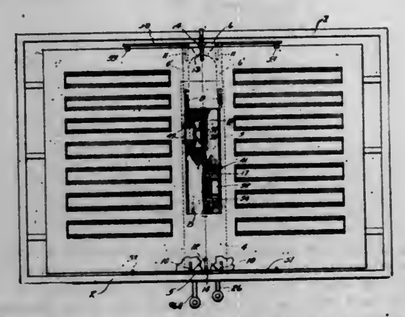
1,454,765. MEASURING DEVICE. JOHN L. PATTERSON, Westhampton, and LUTHER R. BIVINS, Highland Springs, Va. Filed May 26, 1922. Serial No. 563,835. 4 Claims. (Cl. 225—21.)

1. In a measuring device, the combination of a measuring cylinder; a piston movable therein; means urging said piston to one limit of its motion in said cylinder; a supply connection serving to convey fluid under pressure to the measuring cylinder; a discharge connection serving to convey fluid from the measuring device to the point of use; connections to the opposite ends of said cylinder; and a valve operatively associated with said connections



and serving in one position to close said discharge connection and connect the opposite ends of said cylinder, and in another position to connect the discharge connection with one end of said cylinder while interrupting the connection between the opposite ends of said cylinder.

1,454,766. MUSIC-TURNING DEVICE. LOUIS PINELI and CHRISTOPHER COLUMBUS LOOP, Tacoma, Wash. Filed Jan. 3, 1922. Serial No. 526,794. 6 Claims. (Cl. 84—506.)

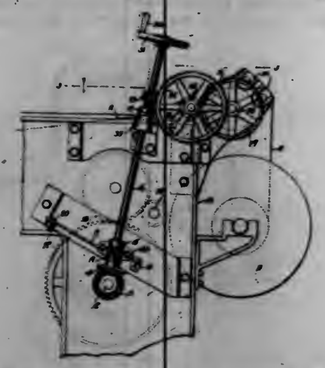


3. The combination with a music rack, and a book supported on the rack having an opening cut in the back edge thereof to expose portions of its leaves, of a leaf turning device fixed to the rack comprising a base member, a leaf turning plate hingedly fixed to the base member and disposed when in set position within the opening of the book, a leaf engaging plate slidably mounted on the turning plate, means for normally retaining the leaf engaging plate in retracted position, a spring for urging it outwardly when released to extend its outer edge beneath the edge of the leaf to be turned, a lever operatively connected to effect operation of the turning plate and to permit extension of the leaf engaging plate, and means for automatically returning the parts to initial position after a turning operation.

1,454,767. POSITIVE LET-OFF MOTION FOR LOOMS. JOHN A. PORTER, Macon, Ga. Filed Jan. 10, 1922. Serial No. 528,163. 9 Claims. (Cl. 139—59.)

2. In a positive let-off motion for looms, a let-off assemblage including a driven element, a worm shaft, driven means for said shaft, means to optionally establish or dis-

establish connection between said driven means and said shaft, a worm wheel actuated by the worm shaft and actu-



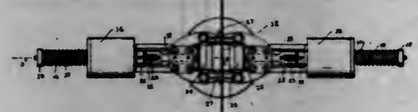
ating said driven element of said assemblage, and means optionally to establish or disestablish connection between the worm shaft and the worm wheel.

1,454,768. LOCK. RAY B. RAYMOND, New York, N. Y. Filed May 8, 1922. Serial No. 559,266. 1 Claim. (Cl. 179—189.)



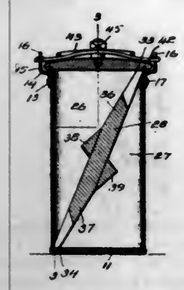
In a lock for telephone receivers, including a removable structure having one end for impermanent accommodation within the pedestal opening from which the receiver hook emerges and the opposite end of the structure presenting an eye formation to be locked to a terminal eye portion of the receiver hook, a structure for such purpose comprising a rigid member formed of a single piece of wire, including merely a straight length and an eye formed at one end of said straight length by bending the wire piece, all portions of the wire piece being in one plane.

1,454,769. APPARATUS FOR CUTTING SOAP INTO BARS. JULIUS A. SCHWANTES, Milwaukee, Wis., assignor to The Palmolive Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 3, 1922. Serial No. 549,313. 5 Claims. (Cl. 25—105.)



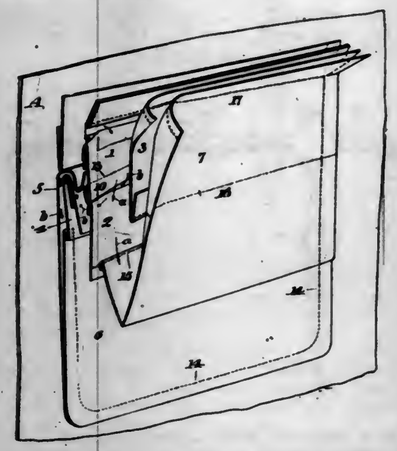
1. In a device of the class described, a pair of reciprocating knives, electrically actuated means for reciprocating said knives, a double switch for controlling said electrical means, said double switch being operated by the material to be cut for successively completing and breaking the circuit including said electrical means.

1,454,770. CHURN. THOMAS E. SMITH, Good Springs, Tenn. Filed Jan. 3, 1923. Serial No. 610,452. 12 Claims. (Cl. 258—89.)



1. A churn comprising a revolvable container and a diagonally disposed imperforate rectangular dasher or abutment element arranged therein and providing said container with a plurality of compartments, said element formed with an opening having a cutaway portion at each end edge.

1,454,771. SAFETY POCKET. JOSEPH STONE, Chicago, Ill., assignor to Stone Safety Pocket Company, Chicago, Ill. Filed Apr. 18, 1922. Serial No. 554,687. 7 Claims. (Cl. 2—15.)



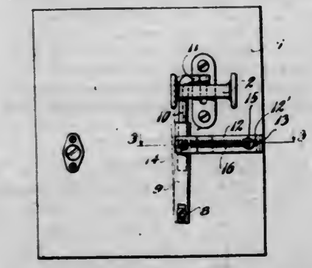
2. A safety pocket for garments comprising a guard welt attached to the edge of the usual pocket opening and extending downwardly, a second strip of material attached at its upper corners only to the lower edge of the guard welt, a third strip of material attached at its upper edge to the garment above the pocket opening, a piece of pocket material attached at its upper edge to the third strip and at its lower edge to the second strip, the three strips and the piece of pocket material forming the usual pocket, and the opening between the unattached edges of the guard welt and the second strip forming the entrance to the secret pocket, a folded strip attached to the outer edge of the second strip and extending upwardly to near the top of the guard welt, and pieces of pocket material attached to the outside of the folded strip and the outer lower edge of the guard welt and forming the secret pocket.

1,454,772. SUSPENSION BRIDGE. VERNON L. SULLIVAN, El Paso, Tex. Filed Nov. 1, 1921. Serial No. 512,012. 5 Claims. (Cl. 14—18.)



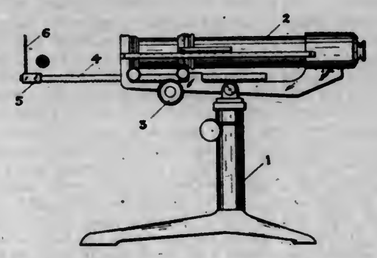
1. In a suspension bridge the combination with the bridge structure comprising towers, supporting cables extending between and over the towers to suitable anchors, and a floor structure including cross-beams suspended from said cables, of anti-sway cables fastened to the lower portions of the towers and extending across the underside of the floor of the main span to the center of the cables at opposite sides of the bridge, respectively, and rods connecting said antisway cables to the beams of the floor structure.

1,454,773. TELEPHONE ATTACHMENT. GEORGE W. SUMNER, Dorchester, Nebr., assignor of three twenty-fifths to Russell Mooberry, three twenty-fifths to Thomas Gray, three twenty-fifths to Robert C. Panter, and three twenty-fifths to J. W. Byers, all of Dorchester, Nebr. Filed Oct. 11, 1921. Serial No. 507,008. 6 Claims. (Cl. 179—178.)



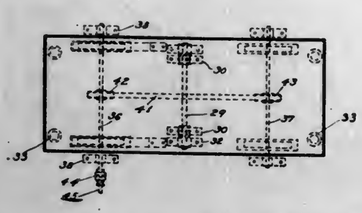
1. A telephone attachment of the class described, comprising a pivotally mounted stop member arranged adjacent to the receiver hook of the telephone instrument and adapted to be swung into the path of movement of the receiver hook to intercept the movement thereof, and a slide connected to the said stop member for moving the same.

1,454,774. EYE-TESTING INSTRUMENT. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 17, 1919. Serial No. 311,409. 4 Claims. (Cl. 88—20.)



1. In an instrument of the character described, the combination with the instrument proper of a slidable chart carrier mounted thereon, a chart bearing sleeve slidable on the carrier, and a lens carried by the sleeve in advance of the chart, said lens being of focus to project the image of the chart to infinity.

1,454,775. AMUSEMENT DEVICE. MORRIS UNGER, Pittsburgh, Pa. Filed Feb. 9, 1921. Serial No. 443,523. 3 Claims. (Cl. 46—71.)



1. In an amusement device of the character described, the combination of a rockable floor-plate; revolving polygonal cams for producing up and down motions of said floor-plate; means for operating said cams; means positioned between said floor-plate and polygonal cams for increasing the noise when said floor-plate is actuated; resilient means for supporting said floor-plate above the reach of said cams when not loaded; all of said means being positioned beneath said floor-plate.

1,454,776. DRYING FORMER AND SOCKET MEMBER THEREFOR. CHARLES HERBERT VAIL, Gloversville, N. Y., assignor to Anthony-Vail Tool & Machine Company, Gloversville, N. Y. Filed June 10, 1922. Serial No. 567,394. 10 Claims. (Cl. 223—17.)

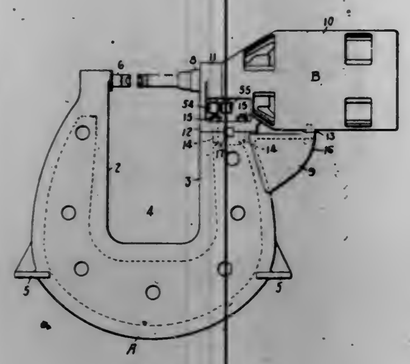


1. In a steam drying device, a form board, a supporting socket therefor having a single inlet bore, means to conduct the steam from said inlet bore to the upper or outer end of the form board interiorly of the latter, means to provide a separate passage for the return of condensation from the interior of the form board to said inlet bore and a single valve for the steam supply and condensation return.

1,454,777. RIVETER. CHARLES J. WALKER, Gary, Ind. Filed Jan. 5, 1918, Serial No. 210,514. Renewed Dec. 15, 1922. 9 Claims. (Cl. 78—46.)

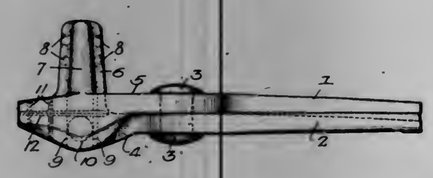
1. In a machine embodying fixed and translatory work engaging elements, an electric motor operatively con-

nected to said translatory element, said translatory work engaging element being arranged to actuate limit switches to break the circuit to said motor after a predetermined extent of travel by said translatory element and the motor being adapted to supply the energy necessary to move said



translatory work engaging element through said predetermined extent of travel, means for supplying current to said motor, and means for automatically breaking the circuit to said motor when the load on said motor exceeds a predetermined maximum.

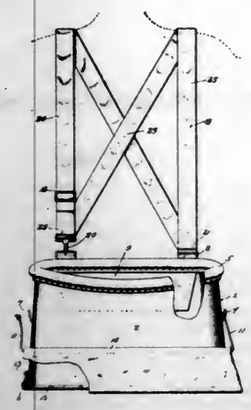
1,454,778. TONGS. LEWIS E. WEGNER, Hagerstown, Md. Filed June 8, 1921. Serial No. 475,885. 3 Claims. (Cl. 294—36.)



1. Tongs comprising a pair of pivotally connected cooperating jaws, one of said jaws having on its working face a substantially hemispherical projection, substantially as described.

1,454,779. FRUIT-PICKING BUCKET. ALFRED Z. WELLS and JAMES M. WADE, Wenatchee, Wash. Filed Nov. 1, 1921. Serial No. 511,982. 16 Claims. (Cl. 150—2.)

1. A fruit picking bucket comprising a substantially oval shaped body formed of rigid material and open at both ends, an attaching member projecting outwardly from each side thereof, a flexible tubular bottom having its upper end secured to said body and adapted to be folded across the lower end of the body for closing it, flexible connecting members carried by the free end of said bottom at opposite sides thereof and detachably engaging with said attaching members whereby said body may be closed or opened when desired, and oppositely disposed flexible elements secured within said body at

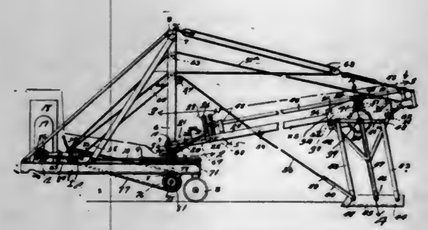


the lower end thereof for retarding the discharge of the contents thereof when said bottom is detached from said attaching members.

1,454,780. WATER, FIRE, AND GERM PROOF COMPOSITION. WALTER E. WILLETT, Syracuse, N. Y., assignor to Con-O-Lite Corporation, Cortland, N. Y., a Corporation of New York. Filed Sept. 29, 1921. Serial No. 504,109. 9 Claims. (Cl. 106—24.)

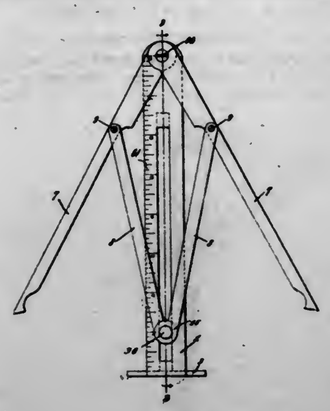
1. As an ingredient for artificial stone, pulverized coke having its particles coated with hydrofluosilicic acid.

1,454,781. EXCAVATING MACHINE. ROY E. WILT, Arcanum, Ohio. Filed Apr. 5, 1921. Serial No. 458,673. 8 Claims. (Cl. 214—134.)



1. In a device of the class described, the combination with a boom, of a traveler longitudinally movable on said boom, said traveler having a shaft rotatably mounted therein at a point above the boom and a shaft rotatably mounted therein at a point below the boom, gear connections between said shafts, downwardly extending brackets carried by the traveler, a digging shovel pivotally mounted in the downwardly extending brackets, parallel link connections between the shaft carried by the traveler below the boom and the shovel, a gear carried by the upper shaft substantially centrally thereof, a shaft disposed above the upper shaft and at right angles thereto, a worm slidably keyed on said shaft disposed above the upper shaft and meshing with the centrally disposed gear of the upper shaft and forming means for operating the gear connections between the upper and lower shafts and varying the position of the digging shovel through the parallel connections.

1,454,782. TOOL. EDITH A. WIMMER, Salt Lake City, Utah. Filed Aug. 10, 1921. Serial No. 491,246. 2 Claims. (Cl. 33—91.)



2. In a device of the class described, a main member provided at one end with a transverse head extended laterally beyond said member and of sufficient length to maintain said member at right angles to the work, when the head is slid along an edge of the work; a rider mounted to reciprocate on the main member; a center point carried by the rider and cooperating with the head to draw a line on the work, parallel to the head; arms pivoted at one end to the main member, and links pivoted to the intermediate portions of the arms and to the rider, the arms constituting levers whereby motion may be transmitted to the rider through the instrumentality of the links.

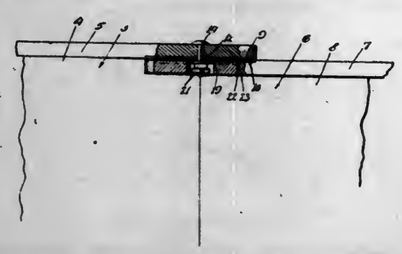
1,454,783. CLIP OR STAPLE. FRANK J. YETTER, Greenfield, Mass. Filed Oct. 10, 1921. Serial No. 506,837. 1 Claim. (Cl. 24—153.)



An article of the character described made of sheet-metal, notched at the opposite edges of the center, and bent or folded double, and having teeth or spurs at the outer edges of the notches, teeth extending inwardly from the body of the device, and provided with spurs bent outwardly from the body of the device at a point in the area formed between different teeth.

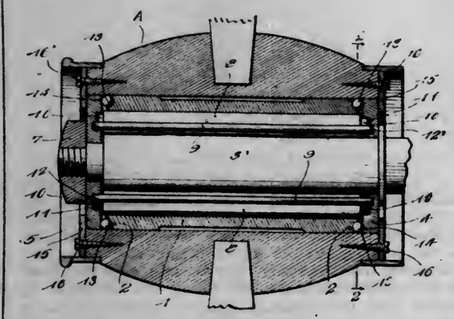
1,454,784. HINGE JOINT FOR CONVERTIBLE ROADSTER SECTIONS. BENJAMIN V. GILMORE, Gauley Bridge, W. Va., assignor to John W. Graham, James A. Graham, and William S. Peck, all of Hinton, W. Va. Filed Mar. 29, 1921. Serial No. 456,595. 2 Claims. (Cl. 296—26.)

1. The combination with a fixed tonneau section and a section pivotally adjustable with relation thereto, the said sections having wooden floors and side walls, of means pivotally connecting the side walls and comprising circular flat relatively thin plates of uniform thickness secured upon the confronting faces of the side walls, the plates and walls having aligned central openings, a pivot element fitted through the openings, one of the plates having an arcuate slot concentric to the opening and the adjacent wall, a groove registering with said slot, and a stud upon the other plate working in the slot and the groove, the pivot element comprising a bolt and a nut



threaded onto the end of the bolt and housed within the opening in one of said walls, the adjacent edges of said floors being adapted to abut when said adjustable section is in open position.

1,454,785. ROLLER BEARING. ABNER EUGENE GRIFFITH, Duluth, Minn. Filed Aug. 30, 1920. Serial No. 406,790. 2 Claims. (Cl. 64—61.)

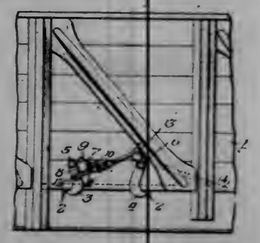


1. A device of the character described comprising a wheel hub, a sleeve fitting tightly within said hub and terminating short of the ends of the hub, disks positioned within said hub between the ends of the sleeve and the ends of the hub and having their central portions cut out and their inner faces provided with circular bearing grooves having their inner peripheral portions countersunk, anti-friction balls between said disks and the ends of said sleeve, main bearing rollers positioned in said sleeve and having their end portions fitting into the grooves in the inner faces of said disks, spacing rollers between said main rollers having their end portions fitting into the countersunk portions of said grooves, retaining disks secured upon the ends of said hub and extending in overlapping relation to the outer faces of the bearing disks, the retaining disks having their central portions cut out to a greater extent than the bearing disks whereby a spindle having a threaded outer end portion and a collar at its inner end may be passed through the bearing disks with the collar engaging one of the bearing disks and the main rollers engaging the spindle and a securing nut upon the threaded end portion of the spindle engaging the second bearing disk.

1,454,786. DUMP-CAR-DOOR LATCHING MECHANISM. DAVID HINDAHL, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed July 3, 1922. Serial No. 572,427. 5 Claims. (Cl. 105—308.)

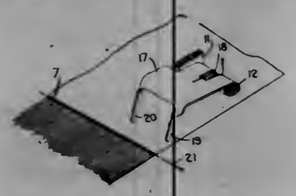
1. In combination with a dump car door, latching mechanism comprising a pair of pivoted latches, and a cou-

pling link connected with said latches and adapted to insure like movements in them; said latches being presented



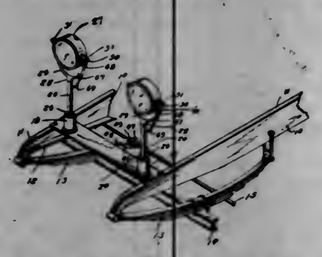
in opposite directions; and said link being connected to them on opposite sides of their pivots.

1,454,787. SELVAGE GUARD FOR LOOMS. CHARLES M. H. LEIGHTON, Milford, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 30, 1921. Serial No. 518,946. 4 Claims. (Cl. 139—36.)



1. In a loom comprising a frame, a lay, shed forming mechanism, a shuttle and shuttle picking mechanism, and a temple mounted for forward and rearward movement on the frame with the forward movement taking place on the beat-up, an arm pivotally supported on a horizontal axis from the temple and provided with downwardly projecting inner and outer fingers, the arm when depressed with the temple in rearward position acting to position the outer finger rearward of the fell adjacent the selvage and extending transversely across the plane of the cloth and acting to position the inner finger through the shed rearward of the fell whereby on the pick of the shuttle to the opposite side the filling is drawn around the outer finger relieving the strain on the selvage warp, the inner finger upon the beat-up and forward movement of the temple riding up over the fell onto the cloth and acting to raise the arm and withdraw the outer finger before the said pick of filling is beaten in.

1,454,788. HEADLIGHT MECHANISM. JOHN W. REASER, SAMUEL M. HULL, and FREDERICK H. OSBORNE, Portsmouth, Va. Filed Mar. 31, 1922. Serial No. 548,337. 3 Claims. (Cl. 240—61.)



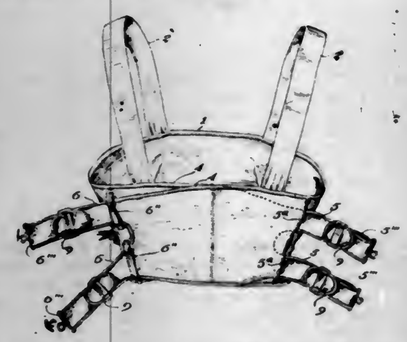
1. A headlight mechanism including a lamp, a hollow standard on which the lamp is pivoted, a rod slidable in the standard, means operable to slide the rod, a spring to urge the rod into engagement with said means, the standard having a slot therethrough, and means having connection with the rod to said slot operable through sliding movement of the rod to tilt said lamp.

1,454,789. FLEXIBLE SCREW DRIVER. MAURICE R. RENTCHLER, Los Angeles, Calif. Filed May 1, 1922. Serial No. 557,501. 1 Claim. (Cl. 145—61.)



In a screw driver, the combination with a handle, of a rod secured in said handle, a ferrule secured on said handle, a casing having an end portion extending into said ferrule, a spring mounted between said handle and said casing, a flexible shaft extending through said casing and a tool mounted on said shaft and at a point adjacent the extremity of said casing.

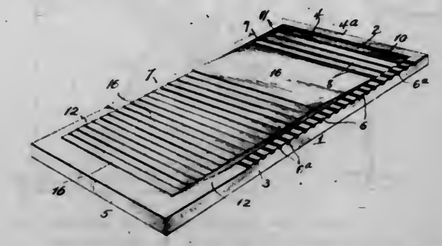
1,454,790. BRASSIÈRE. ISAIAH ROTHKOWITZ, New York, N. Y., assignor of one-half to Joseph Rothkowitz, New York, N. Y. Filed Nov. 16, 1922. Serial No. 601,359. 3 Claims. (Cl. 2—73.)



3. A brassière comprising a front portion and when worn having overlapping bifurcated ends forming the back portion, slits on one side of the brassière, the bifurcations at one end of the brassière being adapted to pass through the slits on the side, straps on the other side for holding the bifurcated end on that side from vertical displacement, each bifurcation of the brassière being adjustable in length with fasteners thereon to fasten it to the side

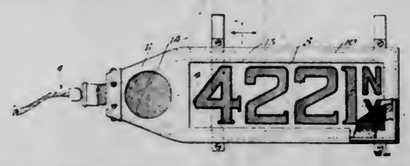
of the brassière in the overlapped position at the back, the front of the brassière having means for keeping it smooth and prevent its rising, and shoulder straps for holding the brassière on the wearer, as described.

1,454,791. CARD INDEX. JOSEPH CLIFFORD RUSSELL, Pittsburgh, Pa. Filed Feb. 9, 1921. Serial No. 443,559. 6 Claims. (Cl. 129—16.)



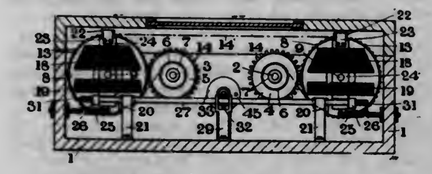
1. In a card index, the combination of a frame having fixed guideways at respective sides, the top wall of one of said guideways having slots, and card supports having end portions movable in said guideways under the top walls thereof, one end portion of each of said supports being movable through one of said slots of the slotted top wall to enter the guideway under the same after the opposite end portion of said support shall have been inserted into the opposite guideway.

1,454,792. AUTOMOBILE LICENSE-PLATE CASING. WALTER A. SCOTT, Brooklyn, N. Y. Filed May 5, 1922. Serial No. 558,639. 1 Claim. (Cl. 40—132.)



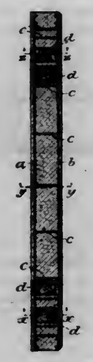
An automobile license plate casing which comprises a body portion having one face open and a flanged cover to be placed thereover, the cover being apertured to exhibit the plate, the body portion having a flange around and near its upper edges to receive and support the plate, a cushion on said flange to be disposed between the plate and the flange, means for fastening the cover to the body portion, the walls of the casing and cover at one end sloping or converging toward each other, a cup-shaped cap removably fastened to this end, and means on said cap to support a light.

1,454,793. ROUTE INDICATOR. ERNEST SHAUBSOLE, London, England. Filed May 15, 1922. Serial No. 561,212. 10 Claims. (Cl. 40—42.)



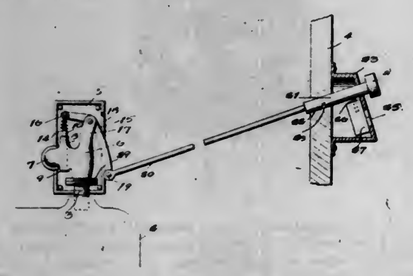
1. A route indicator or recorder having a tape, a feeding device therefor comprising a movable feeding element over which the tape is passed, a gripper adjacent thereto, pivotally supported electro magnetic means adapted when energized to move said gripper onto said tape to grip it against said feeding element, and means for retracting said gripper to free the tape when said electromagnetic means is de-energized, substantially as and for the purpose hereinbefore set forth.

1,454,794. PROCESS FOR THE MANUFACTURE OF RAILROAD SLEEPERS AND THE LIKE OF REENFORCED CONCRETE. OSCAR SMREKER, Lucerne, Switzerland, assignor to the Firm Internationale-Siegwartbalken-Gesellschaft, Lucerne, Switzerland. Filed July 2, 1921. Serial No. 482,272. 2 Claims. (Cl. 25—155.)



1. The process of manufacturing reenforced railroad sleepers and the like provided with insertions of elastic machinable concrete, which consists in manufacturing separably the insertions of elastic machinable concrete, placing said insertions before hardening into the mould in which the sleeper is made at the places which the means for securing the rails to the sleeper will occupy, and in ramming concrete around the insertions.

1,454,795. BURGLAR ALARM FOR AUTOMOBILES. CHARLES H. SUMMERILL, Penns Grove, N. J. Filed Nov. 1, 1922. Serial No. 598,338. 3 Claims. (Cl. 116—33.)



3. In a burglar alarm adapted to be connected with the engine cylinder of an automobile engine, the combination with an audible signal adapted to be operated by fluid under pressure, a conduit connecting the signal with a cylinder of the engine for transmitting fluid under pressure through said audible signal, an exhaust conduit connecting the signal with the atmosphere, diametrically disposed bosses on the exhaust conduit and provided with alined passages in the bosses, a plate forming a valve slidably mounted in the alined passages, a passage in said plate adapted to aline with the passage

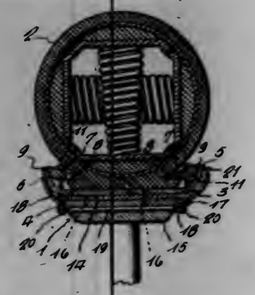
in the exhaust conduit, a rod for operating said valve to open or closed position, the other end of the rod being remotely located from the audible signal, a lock provided with a passage adapted to receive the remotely located end of the rod, said rod being slidable through the passage in the lock and provided with a notch adapted to automatically engage the lock bolt of said lock whereby the plate will be locked in a predetermined position with the passage in said plate alining the passage in the exhaust conduit, whereby fluid pressure from the engine cylinder will operate the audible signal.

1,454,796. SPOOL. HERBERT OTHRO TAFT, Burlington, Vt. Filed May 9, 1922. Serial No. 559,686. 2 Claims. (Cl. 242—118.)



1. In a spool formed with a longitudinal bore in the end thereof, a sleeve or bushing fitting in said bore, said sleeve having an annular groove adjacent its inner end, a journal pin extending through said sleeve, a stop integral with said journal pin adapted to engage the inner end of said sleeve to limit the outward movement of the journal pin, a spring arranged in said bore coacting against said stop for causing said stop to resiliently engage the inner end of said sleeve, and a sleeve-retaining member passing through the spool and fitting in said groove to hold the sleeve against longitudinal movement.

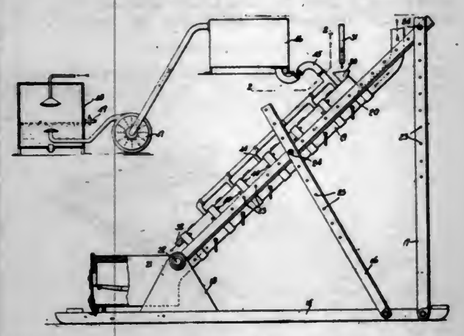
1,454,797. TIRE RIM. JOSEPH H. TAYLOR, Mellen, Wis. Filed Oct. 1, 1921. Serial No. 504,566. 2 Claims. (Cl. 301—11.)



1. A rim comprising a tire engaging rim including a pair of sections of different widths, flanges formed on the outer edges of said sections, one of said sections being transversely severed, means for securing a tire to said sections, a felly rim supporting the tire rim and having notches to permit said means to extend therethrough, and means securing the felly rim to a wheel felly and engaging one of the flanges.

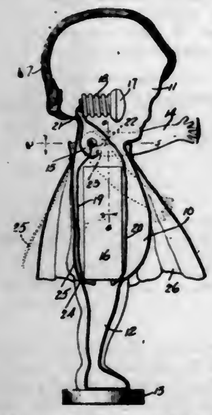
1,454,798. ROASTING FURNACE. JOSEPH THOMAS, Aberdeen, Wash. Filed Jan. 27, 1922. Serial No. 532,163. 12 Claims. (Cl. 263—30.)

1. A roasting furnace including a supporting member, lugs secured to said supporting member, a furnace body pivotally attached adjacent one of its ends to said lugs, and standards attached to said supporting member and



adapted to engage said body to normally withhold the same from movement with respect to said member.

1,454,799. BOUDOIR LAMP. FREDERICK WILLIAM USHER, Brooklyn, N. Y. Filed Dec. 12, 1921. Serial No. 521,741. 2 Claims. (Cl. 240—10.)

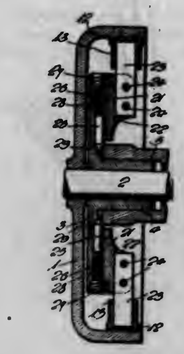


1. As a new article of manufacture an ornamental lamp comprising a hollow translucent body in the form of a doll and having pivoted arms, the body being provided at the rear with an opening to give access thereto, an incandescent electric lamp in the head, a battery in the body, a contact on the body, a contact on one arm, and circuit wires connecting the battery, lamp and contacts.

1,454,800. CLUTCH GOVERNOR. JOHN M. VAWTER, Indianapolis, Ind., assignor of one-half to Israel M. Draper, Indianapolis, Ind. Filed Jan. 16, 1922. Serial No. 529,628. 5 Claims. (Cl. 192—56.)

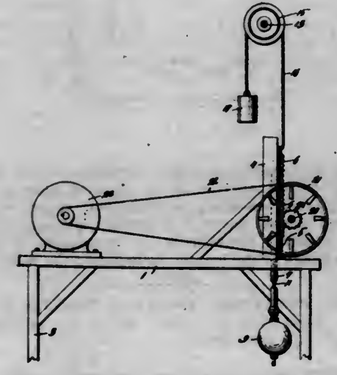
1. In a structure of the character described, a rotary shaft, a clutch cup loose upon the shaft, a spider turning with the shaft, a collar turning with the shaft and slidable longitudinally thereon towards and away from the spider, gripping shoes within the cup, means for bringing the shoes into binding engagement with the cup when the collar is moved towards the spider, arms extending from said spider and engaging the shoes to move the shoes with the shaft, spider and collar when the shaft is rotating, means slidably carried by the spider in radiating relation to the collar for engaging the collar and moving the collar away from the spider

to release the shoes from binding engagement with the cup, and resilient means yieldably holding the collar moving means in an operative position, said collar moving



means being moved to an inoperative position by centrifugal force set up when the shaft and spider are rotating at a relatively high speed.

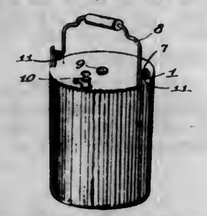
1,454,801. WAVE MOTOR. FRANK I. WEBB and CHARLES S. HARRISON, McKeesport, Pa. Filed Mar. 11, 1921. Serial No. 451,446. 3 Claims. (Cl. 253—10.)



1. In combination, a support, buoyant members, hollow rods attached to said buoyant members, the hollow rods provided with an elongated slot adjacent their upper ends, a flexible cable extending through said hollow rods and said support at one end, anchoring means provided at the other end of said flexible cables, and means for utilizing the power made by the rise and fall of the buoyant members.

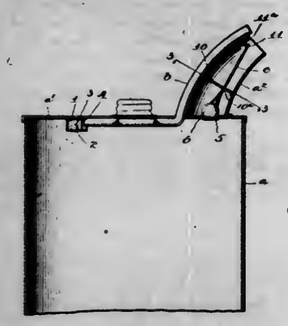
1,454,802. SHEET-METAL CAN. BENJAMIN N. WELLS, Raleigh, N. C., assignor to The Seamless Can & Bucket Co., Baltimore, Md., a Corporation of Maryland. Filed Dec. 15, 1921. Serial No. 522,611. 1 Claim. (Cl. 220—72.)

A seamless sheet metal container for liquids having a cylindrical side wall corrugated longitudinally, the depth of the corrugations increasing from the bottom upwardly, said container having integral ears projecting from opposite edges of the side wall, a cover having a



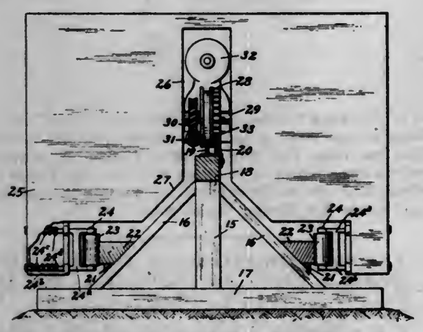
corrugated flange fitting the corrugations in the container and sealed to the container and a faucet on the cover.

1,454,803. DISPENSING VESSEL. BENJAMIN N. WELLS, Raleigh, N. C., assignor to The Seamless Can & Bucket Co., Baltimore, Md., a Corporation of Maryland. Filed Apr. 18, 1922. Serial No. 554,884. 4 Claims. (Cl. 221—13.)



1. The combination with a vessel having a top provided with an opening and a spout on the top surrounding said opening, of a ball adapted to seat in said opening when the vessel is upright and to roll from its seat when the vessel is tilted, and means for holding said ball on its seat comprising a rod extending into the spout and having a resilient end adapted to bear against the ball, said rod being adjustable longitudinally of the spout to lock and release the ball.

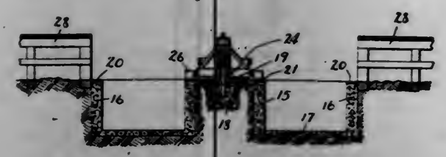
1,454,804. MONORAIL STRUCTURE. THOMAS H. WRIGHT, Los Angeles, Calif. Filed Sept. 15, 1922. Serial No. 588,430. 5 Claims. (Cl. 105—145.)



1. A monorail structure comprising spaced ties, vertically disposed beams supported on the ties, horizontally

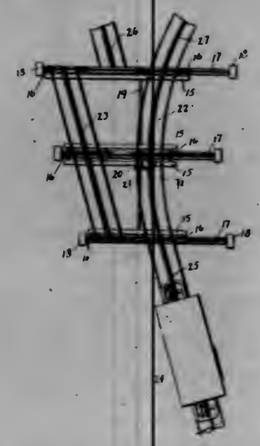
disposed beams connecting the vertical beams and adapted to support a monorail thereon, divergent brace bars connecting the vertical beams and said ties, horizontally disposed beams connecting the brace bars of one vertical beam with an adjacent beam, and rails secured to the second horizontal beams.

1,454,805. TURNTABLE. THOMAS H. WRIGHT, Los Angeles, Calif. Filed Sept. 15, 1922. Serial No. 588,432. 1 Claim. (Cl. 104—55.)



A turntable comprising a base formed with plastic material and including a central annular portion, a peripheral annular portion, a bottom portion connecting the two at their lower edges, and a hub portion disposed axially of the central portion, tracks on the upper edges of the central and peripheral portions, a carriage including a king pin journaled in the hub portion and rollers movable over said tracks, and a monorail supported on the carriage.

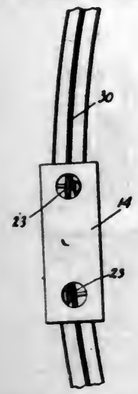
1,454,806. SWITCH DEVICE. THOMAS H. WRIGHT, Los Angeles, Calif. Filed Sept. 15, 1922. Serial No. 588,433. 5 Claims. (Cl. 104—102.)



1. A switch device comprising rails, posts at the ends of the rails, a carriage including wheels movable over the rails, said carriage being capable of occupying two extreme positions in either of which the wheels are adapted to abut the posts, track sections on the carriage, and means for driving the carriage.

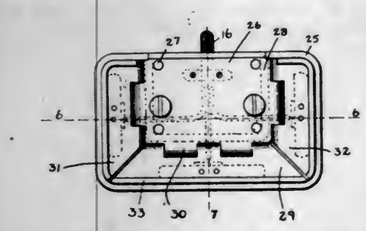
1,454,807. SWIVEL TRUCK FOR MONORAILS. THOMAS H. WRIGHT, Los Angeles, Calif. Filed Sept. 15, 1922. Serial No. 588,434. 6 Claims. (Cl. 105—119.)

1. In combination, a monorail car including a chassis, a member secured to the chassis, rollers sustained on the member, one annular member underlying the first member for rotational movement and adapted to be engaged by said rollers, a wheel carried by the second member



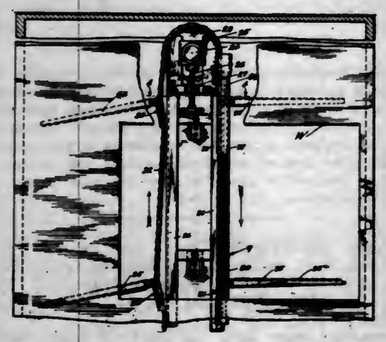
for engagement with the monorail, and driving means carried by the second member for driving said wheel.

1,454,808. TRAFFIC-SIGNAL-OPERATING MECHANISM. GEORGE T. WROUGHTON, Los Angeles, Calif. Filed May 25, 1922. Serial No. 563,545. 5 Claims. (Cl. 200—59.)



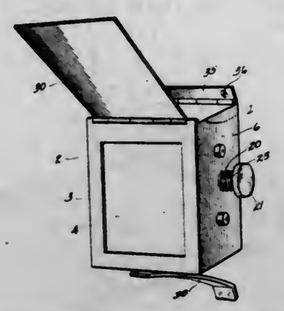
1. A triple switch mechanism including a box having a flanged bottom adapted to be mounted upon a brake pedal and said box being provided with a set of three flat switch closing leaves in a common plane and which may be operated individually or in suitable co-ordination, the flange of the bottom surrounding the leaves.

1,454,809. CONVEYER. ORLANDO J. BOOS, Los Angeles, Calif. Filed Mar. 16, 1920. Serial No. 366,346. 7 Claims. (Cl. 198—190.)



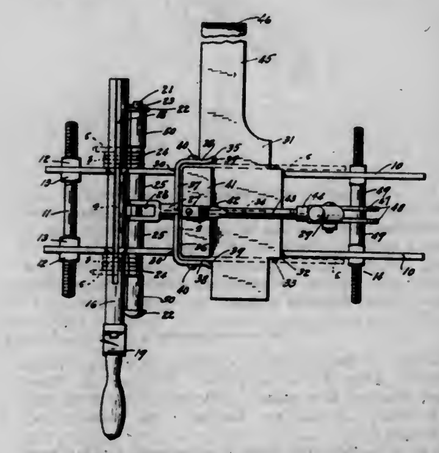
1. A conveying apparatus comprising a vertically arranged set of chain conveyers with cross plates each arranged parallel to given carrier links of the chain, brackets attached to each plate, and receiving arms pivotally attached to the brackets.

1,454,810. AUTOGRAPHIC REGISTER. JAY PETER COWLEY, Tacoma, Wash. Filed June 6, 1921. Serial No. 475,334. 2 Claims. (Cl. 281—7.)



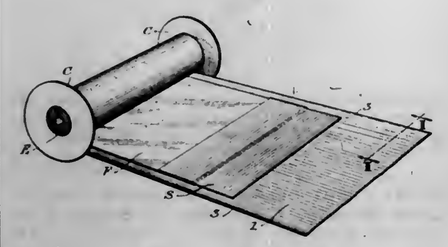
1. In combination with a vehicle dash board, an autographic register comprising a housing mounted on said board having an opening in the top wall, a writing plate mounted within the housing beneath said opening, guide rollers mounted at opposite ends of said plate, a pair of axles mounted within the housing beneath the plate, about which a record strip may be wound drawn over said guide rollers and across the writing plate, gear wheels fixed on said axles in offset alinement, a shaft slidably and rotatably mounted in a wall of the housing, a gear wheel fixed on the inner end of said shaft adapted to mesh with either of the first named gears, a knob on the outer end of said shaft for turning the same to advance the strip, a spring wound about the shaft bearing against the knob to normally retain the shaft gear in mesh with the advancing gear, but yieldably to permit their being disengaged and the shifting of the shaft gear into mesh with the re-winding gear.

1,454,811. MACHINE FOR FORMING TRACK TERMINALS. TOY OWEN CULPEPPER, Toccoa, Ga. Filed Mar. 18, 1922. Serial No. 544,937. 12 Claims. (Cl. 140—71.)



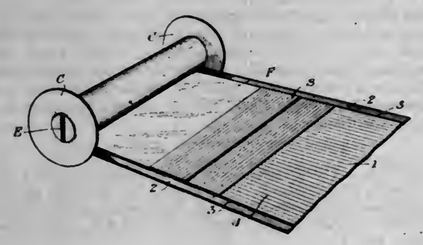
1. A machine for forming track terminals including manually operable means for bending a length of wire into U-shape, a rotatable mandrel having a longitudinally extending groove into which the cross bar of the U-shaped blank is adapted to be disposed, and forming rollers manually shiftable toward or from the mandrel.

1,454,812. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,447. 18 Claims. (Cl. 95—9.)



1. A photographic cartridge comprising coiled strips of sensitized material and of protective material, the margins of the protective strip being more flexible than the median portion thereof.

1,454,813. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,448. 7 Claims. (Cl. 95—9.)

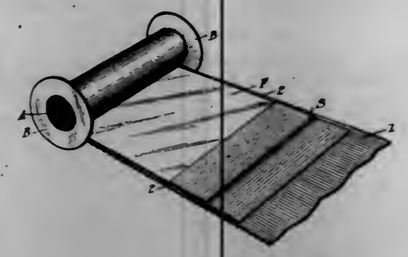


1. An article of manufacture comprising strips of sensitized material and of protective material interwound in a spiral coil, the strip of protective material being wider than the strip of sensitized material, and the side margins thereof being of a uniform thickness less than that of the median portion of said strip.

1,454,814. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,449. 7 Claims. (Cl. 95—9.)

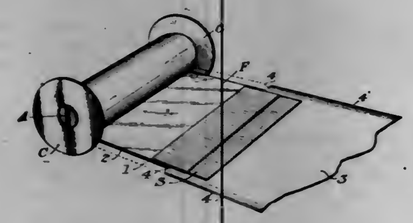
1. An article of manufacture, comprising a spool with end flanges, a band of photographic film wound thereon,

sheet protective material attached to the film and constituting end strips wound on the spools inside the film



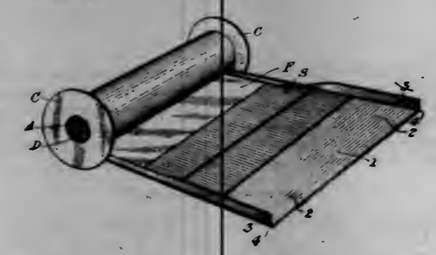
and outside thereof, at least one side margin of each end strip being serrated and the width of the end strips being greater than the distance between the flanges.

1,454,815. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,450. 8 Claims. (Cl. 95—9.)



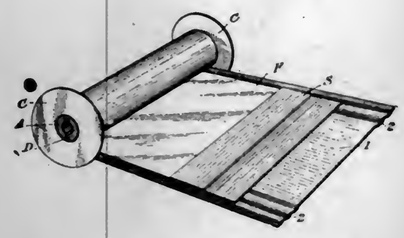
1. A photographic film cartridge comprising a spool with spaced end flanges having flat inner facing surfaces, strip material, comprising photographically sensitive material and protective material, wound on said spool and including lead strips of protective material, said lead strips only being wider than the distance between said flanges and the rest of said strip material being narrower than such distance.

1,454,816. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,451. 5 Claims. (Cl. 95—9.)



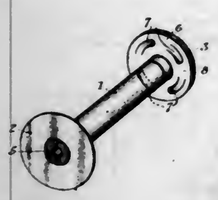
1. An article of manufacture and sale, comprising sensitized material and protective material interwound in a spiral coil, the protective material being wider than the sensitized material and the margins of said protective material being thinner than the median portion thereof and bent to form flanges, the film material lying between said flanges.

1,454,817. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,452. 8 Claims. (Cl. 95—9.)



1. A photographic cartridge comprising tightly interwound sensitized material and protective material, there being in the protective material longitudinally extending portions which tend to assume a laterally contracted position but which are held in a laterally expanded position in the cartridge by the pressure of the interwound material.

1,454,818. PHOTOGRAPHIC CARTRIDGE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,453. 6 Claims. (Cl. 95—9.)

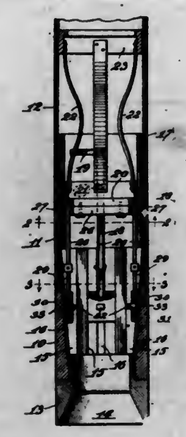


1. A photographic film cartridge comprising a core with fixed end flanges, a coil thereon comprising bands of sensitized material and of protective material, and an annular auxiliary flange loosely mounted on said core between, and having opposed surfaces bearing against, one end of said coil and the adjacent flange, said auxiliary flange being resiliently resistant to compression.

1,454,819. COMBINATION CASING CUTTER, OVERSHOT, AND MILLING TOOL. WILLIAM H. JONES and MARCUS KINNEBREW, Fellows, Calif. Filed Nov. 18, 1921. Serial No. 516,151. 11 Claims. (Cl. 81—189.)

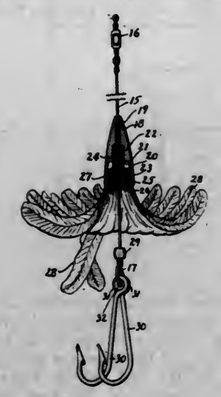
1. In a combination tool, an elongated tubular member, a pair of rings arranged for vertical movement in the upper portion of said tubular member, the lower one of

which rings is mounted for limited rotary movement upon the upper ring, springs secured to the upper ring and



adapted to engage a member to which the tool is applied, links depending from the lower ring, and cutter carrying blocks carried by said links.

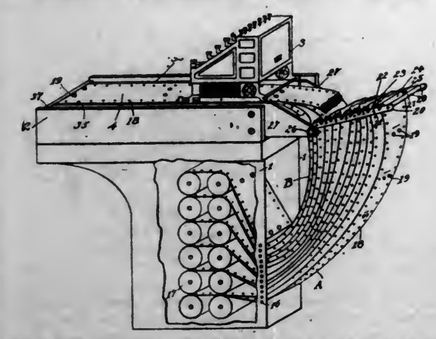
1,454,820. FISH LURE. WILLIAM H. READLE, San Bernardino, Calif. Filed Aug. 19, 1922. Serial No. 582,881. 9 Claims. (Cl. 43—42.)



1. A fish lure, comprising a supporting member, and a securing member associated with the supporting member to detachably secure the luring members within the supporting member, both of said members being formed to rotatably receive a leader.

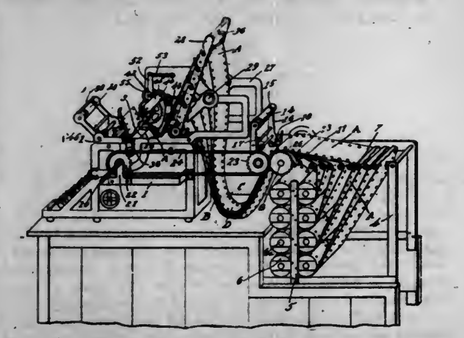
1,454,821. FLAT-BED MULTICOPY MACHINE. JOHN Q. SHERMAN and ALBERT W. METZNER, Dayton, Ohio; said Metzner assignor to said Sherman. Filed June 24, 1920. Serial No. 391,499. 68 Claims. (Cl. 197—126.)

1. In a multi-copy machine a storage rack for paper rolls comprising a pair of vertical members, roll spindle engaging means interspaced on both sides of said vertical members, and a latching means adapted to engage



and hold a plurality of spindles in the spindle engaging means on one of said vertical members, said latching means being operable as a unit.

1,454,822. MANIFOLDING TYPEWRITER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Aug. 11, 1920. Serial No. 402,753. 73 Claims. (Cl. 197—126.)

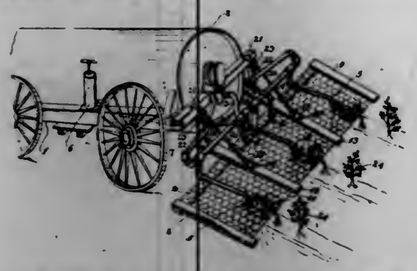


1. In combination with a typewriter having a movable platen, a fixed frame for storage of paper, and means for feeding a plurality of webs of paper continuously from the fixed frame to the platen so as to maintain an excess of paper between the same frame and platen said means acting on each web individually as distinguished from acting on all webs as a group and comprising rotary pin bearing bodies to which the webs are guided so as not to wrap around said bodies, the paper having spaced feeding holes for the pins.

1,454,823. WALL BOARD AND PROCESS OF MAKING THE SAME. HENRY A. SMITH, Santa Barbara, Calif. Filed Sept. 30, 1920. Serial No. 413,902. 3 Claims. (Cl. 154—51.)

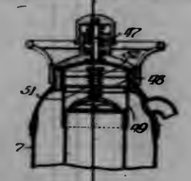
1. A process of making wall board comprising heating asphaltum to approximately 350° F., mixing sawdust and slivers into the asphaltum, placing the mixed mass upon a moving table covered with a thin layer of sand, reducing the mass on the table to about two inches in thickness, applying a thin layer of sand to the upper surface of the mass, applying a compression roller which reduces the thickness of the layer to about five-eighths of an inch, keeping the sand and roller hot to prevent chilling and cracking, delivering the layer of asphaltum and sand from the moving table to a set of compression rollers, and passing the layer between the compression rollers and thereby reducing the thickness to about three-eighths of an inch.

1,454,824. SPRAYING DEVICE. ARENTH A. STUBFORS, Spooner, Wis. Filed Sept. 30, 1921. Serial No. 504,362. 3 Claims. (Cl. 299—29.)



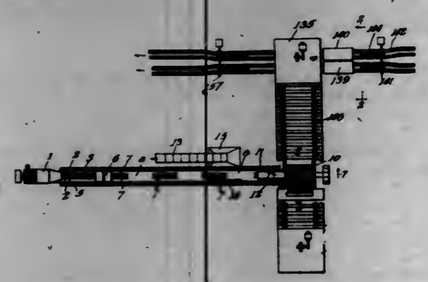
1. The combination with a vehicular spraying machine having a plurality of nozzles arranged to discharge a liquid downwardly, of a flat perforate member, and means for adjustably attaching the perforate member to the machine to support the member in a desired position between the nozzle orifices and the surface to be traversed by the machine.

1,454,825. FIRE EXTINGUISHER. WILLIAM S. TIFFANY, Chicago, Ill., assignor of one-half to E. E. McMorran, Chicago, Ill. Filed Dec. 21, 1917. Serial No. 208,240. 2 Claims. (Cl. 169—32.)



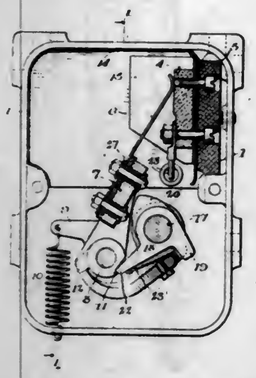
1. In a fire extinguisher, the combination of a tank, a cap therefor, a plunger projecting through said cap, means for preventing the escape of liquid around said plunger, a receptacle disposed within the tank, a frangible seal for the receptacle, means for detachably holding said seal in position, and means connected with said holding means and engaging the mouth of said tank for holding said receptacle in position.

1,454,826. METHOD OF AND MEANS FOR MAKING BRICKS. BERNARD F. WEBER, Chicago, Ill. Filed June 17, 1922. Serial No. 568,971. 65 Claims. (Cl. 25—2.)



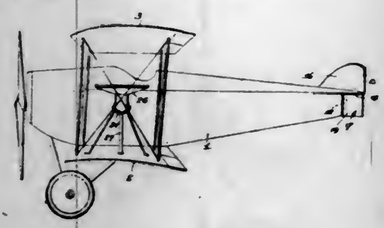
1. The method of making and assembling bricks which comprises, extruding clay thru a die in a parallel-sided stream, assembling slugs of a plurality of brick lengths in parallel relation to each other, and cutting the assembled parallel slugs at right angles into brick lengths.

1,454,827. SAFETY-LIMIT SWITCH FOR ELECTRIC HOISTS. MATTHIAS A. BECK, Milwaukee, Wis., assignor to Milwaukee Electric Crane & Mfg. Co., Incorporated, Millbrook, N. Y., a Corporation of New York. Filed Jan. 12, 1920. Serial No. 350,762. 7 Claims. (Cl. 200—47.)



1. In a safety-limit switch for electric hoists the combination of contact members one of which is movable into and out of engagement with the other, means constantly tending to open the switch, means for releasably holding the switch closed, and means adapted to be actuated by the shifting of a part of a hoist to a certain limit to release said movable contact member, and when said part recedes from said limit, to automatically close the switch.

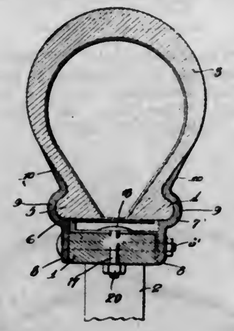
1,454,828. AEROPLANE. THOMAS H. BELL and JOHN G. SCHOENLEBER, New York, N. Y. Filed Oct. 29, 1920, Serial No. 420,434. Renewed Mar. 21, 1923. 3 Claims. (Cl. 244—18.)



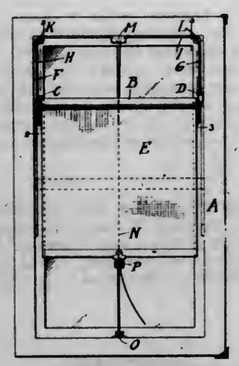
1. In combination with an aeroplane of the biplane type, and a pair of vertically disposed transversely spaced blades included in the tail structure of the aeroplane of a fan, means to drive the fan from the aeroplane motor a hood embracing the fan and tapered rearwardly therefrom, a conduit connected to the hood and extending into the space between the said blades in the tail structure a second conduit, and a valve to direct the air from the blower out of the second conduit exclusive of the said first conduit during the initial start of the aeroplane.

1,454,829. SPRING RIM. THOMAS H. BELL, New York, and JOHN G. SCHOENLEBER, Brooklyn, N. Y. Filed Nov. 27, 1920. Serial No. 426,725. Renewed Mar. 21, 1923. 3 Claims. (Cl. 152—8.)

1. In combination with a wheel having a felly and a tire to be mounted on the felly, side gripping members fixed to the opposite sides of the felly and having retaining flanges to engage opposite sides of the tire, a rim having a fastening flange interposed between one of the gripping members and one side of the wheel felly and including radially spaced apart bands, the said bands being connected together at one edge of each band whereby the outermost band will resiliently engage the innermost surface of the tire.

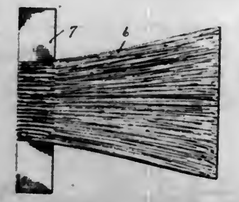


1,454,830. ADJUSTABLE SHADE SUPPORT. AUSTIN D. BAIXEY, New York, N. Y., assignor to Ordinator Company, Inc., a Corporation of New York. Filed May 25, 1917, Serial No. 170,817. Renewed Oct. 30, 1922. Serial No. 598,016. 11 Claims. (Cl. 156—27.)



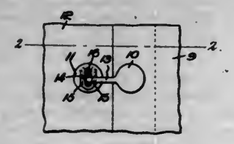
11. The combination with a window frame of a shade roller, a shade thereon, brackets supporting the ends thereof, said brackets having rotatable wheels, bracket guides secured to said window frame, each of said guides having grooves for receiving opposite sides of a wheel respectively, one of said brackets having a shade roller supporting arm, said arm being pivoted below the axis of the shade roller, and upstanding from its pivot end to the shade roller pintle, the other of said brackets having a depending roller supporting arm, said depending arm being pivoted above the axis of the shade roller, and being secured to the pintle thereof by a ball and socket joint, cords for supporting the said brackets, cord guides at the ends of said bracket guides, cord guides secured to the top of said window frame at substantially the middle portion thereof, a cord holder secured to the sill of said window frame at substantially the middle portion thereof and a cord holder secured to the shade at substantially the middle portion thereof.

1,454,831. BROOM. HAUGHTON BROWN, Minneapolis, Minn. Filed Mar. 26, 1921. Serial No. 455,723. 4 Claims. (Cl. 15—171.)



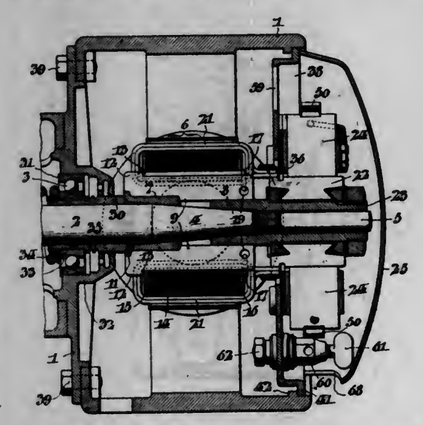
1. A broom comprising a bundle of broom straw, the butt ends of the straw being coated with adhesive material, an anchor bar imbedded in the butt end of said straw, a handle secured to said anchor bar, a binding strap of woven wire fabric surrounding and secured to the coated butt ends of broom straw.

1,454,832. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,681. 4 Claims. (Cl. 24—224.)



3. A stud and socket fastener comprising, in combination, a stud having a relatively long neck or shank portion and a head, a socket providing a channel for receiving said head of said stud, said shank or neck being offset and having said head projecting inwardly therefrom to permit entrance of said head into said channel.

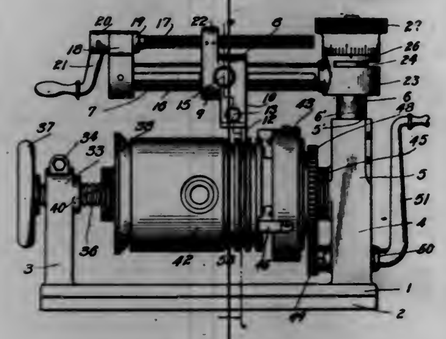
1,454,833. ELECTRICAL MACHINE. LEWIS A. DARLING, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1919. Serial No. 293,763. 4 Claims. (Cl. 171—206.)



1. An armature mounting comprising a shaft with a tapered section and a screw threaded section distinct

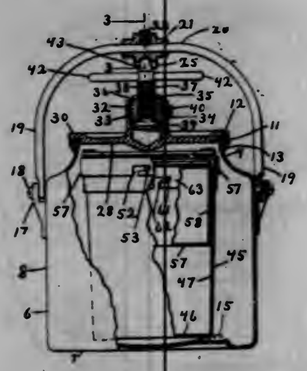
therefrom, and an armature member including a winding internally tapered to fit upon the tapered shaft section and a relatively fixed commutator screw-threaded to screw upon the threaded section.

1,454,834. PISTON-DRESSING MACHINE. ELBERT A. HAMMETT, Kansas City, Mo., assignor of one-half to Ben B. Beldon, Kansas City, Mo. Filed Oct. 10, 1921. Serial No. 506,545. 6 Claims. (Cl. 82—1.)



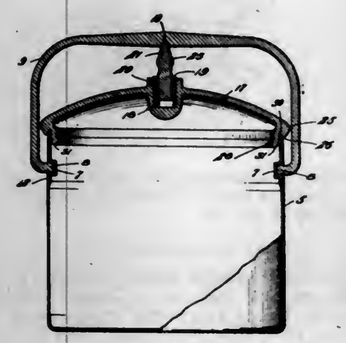
1. A piston dressing device comprising a base, standards on said base, a chuck rotatably carried by one standard, a centering device adjustably supported by the other standard and movable toward and away from the chuck to assist the chuck in supporting a piston, a sleeve longitudinally adjustable with respect to one of the standards, an arm thereon and parallel with the axis of the piston supported by the device, a cutting tool holder supported by the arm, the cutting tool holder being longitudinally movable on the arm, and a feed screw for moving the cutting tool holder longitudinally of the arm.

1,454,835. STEAM-PRESSURE COOKER. JOHN T. SLOCOMB, Providence, R. I. assignor to Economy Cooker Company, East Providence, R. I., a Corporation of Rhode Island. Filed Dec. 13, 1920. Serial No. 430,117. 7 Claims. (Cl. 220—56.)



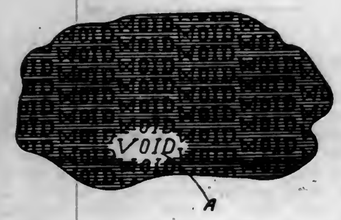
1. In a steam pressure cooking apparatus, a receptacle, a cover on the receptacle, a resilient yoke on the receptacle, a bearing member on the yoke, a threaded post on the cover, a sleeve having threaded engagement with the post and provided with an internal thread, and a rod engaging the bearing member and provided with a thread loosely engaging the internal thread of said sleeve.

1,454,836. STEAM-PRESSURE COOKER. JOHN T. SLOCOMB, Cranston, R. I., assignor to Economy Cooker Company, East Providence, R. I., a Corporation of Rhode Island. Filed Aug. 24, 1921. Serial No. 495,071. 4 Claims. (Cl. 220—57.)



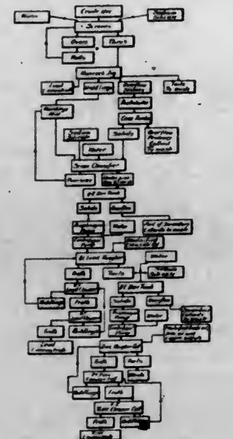
1. In a steam pressure cooker, a cooker body, a cover comprising a top, a lateral rounded shoulder upon the top, a rounded depending shoulder integral with the first shoulder, a depending annular lug provided with a rounded end and depending from the top to a point below the second shoulder and spaced from the second shoulder to admit the cooker body therebetween, the parts forming means for wedgingly pinching the cover and body together.

1,454,837. SAFETY PAPER AND METHOD OF MAKING SAME. BURGESS W. SMITH, Rochester, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed July 17, 1919. Serial No. 311,673. 18 Claims. (Cl. 283—9.)



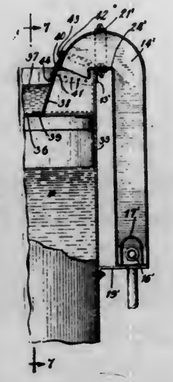
1. A safety paper on which is printed in non-erasable ink matter which, if exposed, would indicate attempts to give an instrument a meaning different from that which it was originally intended to have, and matter masking the permanently printed matter, said masking matter being printed in erasable ink of the same color as the non-erasable ink.

1,454,838. CONCENTRATION OF MINERALS. WALTER O. BORCHERDT, Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 19, 1919. Serial No. 283,628. 33 Claims. (Cl. 83—85.)



1. The method of improving the flotation of minerals associated in a mineral pulp with colloidal constituents, which comprises dispersing normally flocculated colloidal constituents in the mineral pulp, removing colloidal constituents in a dispersed or deflocculated condition from the mineral pulp to an extent sufficient to reduce the flotation-inhibitory effects thereof, and thereafter subjecting the remaining mineral pulp to a flotation operation.

1,454,839. FIRE-EXTINGUISHING APPARATUS FOR OIL TANKS. WILLIS D. WITTER, Roselle Park, N. J., assignor to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1922. Serial No. 532,239. 5 Claims. (Cl. 169—4.)



1. In apparatus for extinguishing fires in oil tanks, a fire extinguishing means for delivering a fire extinguishing medium to and over the oil level in said tank, the said means including a mouth opening into the tank by way of or through the tank top and separable means connecting said mouth to the tank top for permitting violent removal of the tank top without disrupting or removing the said mouth.

Patents Nos. 1,454,840 to 1,445,768.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Reissues	11—No.	15,597 to No.	15,607, inclusive.
Designs	38—No.	62,351 to No.	62,388, inclusive.
Patents	929—No.	1,454,840 to No.	1,455,768, inclusive.
Total	1286		

Interference Notices.

U. S. Patent Office, *Washington, Apr. 27, 1923.*

James P. Williams, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Paragon Electric Company, 329 East Fifth Street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 31, 1899, No. 32,456, to James P. Williams, 39 and 41 Cortlandt Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Williams at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Williams, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. Patent Office, *Washington, Apr. 28, 1923.*

The Avery Stamping Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Baldwin Tool Works, Parkersburg, W. Va., for registration of a trade-mark and trade-mark registered January 23, 1906, No. 49,168, to The Avery Stamping Company, corner of Coe and Hamilton Streets, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The Avery Stamping Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Avery Stamping Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. Patent Office, *Washington, Apr. 28, 1923.*

Mary A. Morgan, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Windsor Soap Co., Inc., 963 William Street, Buffalo, N. Y., and The Van Camp Packing Company, Inc., of Lemcke Annex Building, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered January 22, 1901, No. 35,317, to Mary A. Morgan, 1330 Dorchester Avenue, Boston, Mass., and a notice of such declaration sent by registered mail to said Morgan at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Morgan, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. Patent Office, *Washington, Apr. 30, 1923.*

Haight Fruit Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Llewellyn A. Banks, of 108 West Second Street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 14, 1896, No. 27,647, to Haight Fruit Co., of Redlands, Calif., and the Office having been unable to obtain service on said Haight Fruit Co., notice is hereby given that unless said Haight Fruit Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. Patent Office, *Washington, Apr. 16, 1923.*

Jiffy Apron Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Jiffy Jumper Mfg. Co., of 39 West Adams Street, Chicago, Ill., and Guiterman Brothers, of Fourth and Sibley Streets, St. Paul, Minn., for registration of trade-marks and trade-mark registered February 9, 1915, No. 102,521, to Jiffy Apron Company, 255 Gratiot Avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to said Jiffy Apron Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jiffy Apron Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Condition of Applications Under Examination at Close of Business May 4, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 72,803; Trade-Mark Division, 2,920. Oldest new case, May 8, 1923; oldest amended, May 10, 1923. The dates given are 1923 except where * indicates 1922.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Aug. 8	July 11	1,192
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 5	July 25	1,572
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 17	May 19	1,753
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 1	*Jan. 18	1,426
167	5. MACNAB, J. F., Bookbinding; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 16	July 1	1,358
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Aug. 25	Dec. 9	1,621
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	July 12	Sept. 21	2,477
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Nov. 27	*Jan. 11	1,529
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 31	*Apr. 3	863
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 19	Aug. 19	1,384
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Oct. 23	Oct. 25	1,026
322	12. PIERCE, P. P., Machine Elements	Sept. 22	Nov. 4	1,505
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	May 25	*Feb 3	1,326
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 5	*Apr. 9	1,215
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 3	Aug. 23	2,012
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 8	June 14	2,509
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	June 9	Oct. 23	1,467
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 15	May 29	2,054
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 8	*Jan. 26	767
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 5	Oct. 25	1,970
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 19	Nov. 3	1,030
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 10	Oct. 25	663
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 12	May 20	870
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 30	Sept. 18	1,488
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 20	*Jan. 11	434
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	June 7	July 25	912
214	27. ANDERSON, L. S., Attending; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 7	June 12	2,177
225	28. BENSON, A. R., Internal-Combustion Engines	July 13	Sept. 11	1,552
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 28	Dec. 18	721
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 14	*Jan. 4	1,822
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 14	July 12	1,737
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 3	Sept. 11	1,288
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	July 15	July 12	1,647
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Nov. 1	Dec. 8	744
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Dec. 20	*Feb. 15	1,022
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Oct. 30	Oct. 3	1,918
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 29	July 1	1,913
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	May 29	June 13	1,923
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 15	July 1	1,533
220	40. OBERLIN, J. J., Bags; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 13	Nov. 14	2,003
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 14	Sept. 16	972
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	May 31	July 1	1,756
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 2	July 28	1,317
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	July 5	Dec. 8	1,297
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 20	Sept. 12	1,467
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Aug. 7	Sept. 11	1,468
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	June 29	Nov. 7	1,223
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	June 3	June 20	2,404
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	July 5	July 28	731
102	DESIGNS: C. O. MARKHAM (Acting)	July 20	Dec. 30	2,644
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. — Trade-Marks	Dec. 30	*Mar. 23	3,068
	Labels and Prints	*Apr. 27	*Apr. 30	52

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

ENOCH MORGAN'S SONS COMPANY *v.* THE SANITARY PRODUCTS COMPANY.

No. 1,568. Decided January 2, 1923.

1. TRADE-MARKS—LIQUID SOAP HAS SAME DESCRIPTIVE PROPERTIES AS SCOURING SOAP FOR HOUSEHOLD PURPOSES AND TOILET SOAP.

A detergent cleansing and scouring compound, in other words a scouring soap for household purposes called "Sapolio," and a toilet soap called "Hand Sapolio," are of the same descriptive properties within the meaning of the Trade-Mark Act as liquid soap.

2. SAME—"SOAPOLIN" LIKELY TO BE MISTAKEN FOR "SAPOLIO."

"Sapolio" and "Soapolin" look and sound alike, and their contemporaneous use would be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.

Mr. Archibald Cox and *Mr. W. G. Henderson* for Enoch Morgan's Sons Co.

Mr. Chas. S. Grindle and *Mr. J. A. Watson* for The Sanitary Products Company.

ROBB, *J.:*

This is an appeal from a decision of the Commissioner of Patents in a trade-mark opposition case, dismissing the opposition and sustaining the right of the applicant, appellee here, to register the word "Soapolin," used in applicant's business since April of 1917 as a trade-mark for liquid soap.

The opposer, appellant here, and its predecessors in business have used the word "Sapolio" for almost half a century as a trade-mark for a detergent, cleansing and scouring compound, in other words a scouring soap for household purposes, and for many years it also has manufactured and sold under this mark a toilet soap called "Hand Sapolio." The business of the opposer has been very extensive and the mark is well known throughout the United States and in many foreign countries.

[1, 2] We are clearly of the opinion that the goods to which these marks are applied are of the same descriptive properties, within the meaning of the Trade-Mark Act. (*Anglo-American Incand. L. Co.* v. *General E. Co.*, 43 App. D. C., 385; 215 O. G., 325.) To be sure, there are certain differences in the two products, but the points of similarity are more important in a case of this kind. The product of each party is soap, and we are convinced that the contemporaneous use of the two marks would be likely to cause confusion or mistake in the mind of the public or to deceive purchasers. The marks look and sound alike, and there was no apparent reason for such a simulation by the applicant.

The decision is reversed.

Reversed.

Court of Appeals of the District of Columbia.

TINKER *v.* M. F. PATTERSON DENTAL SUPPLY COMPANY.

No. 1,549. Decided March 5, 1923.

1. TRADE-MARKS—"INKTER"—COMMON USE OF ORIGINATOR'S NAME ON UNPATENTED INVENTION.

Where T. originated but did not patent a gold alloy which bears his name and has come into general use by dentists and has long since gone into public use under the accepted name of "Tinker Gold," it follows that anyone may use this generic name in connection with this quality of gold alloy without permission of T.

2. SAME—SAME—USE OF ANOTHER'S NAME AS A TRADE-MARK.

The mark "INKTER" is not sufficiently distinguished from T.'s surname to meet the statutory limitation against the registration of the name of an individual or corporation as a trade-mark.

3. SAME—SAME—SAME.

A personal name cannot be exclusively appropriated by anyone as against others having a right to use it.

4. SAME—SAME—SAME.

The right of an individual to have the registration of his name canceled, like the right of opposition, is statutory, and proof of actual damage is not required.

Mr. F. A. Whiteley for Tinker.

Mr. A. C. Paul, Mr. M. M. Moore, and *Mr. Wm. G. Henderson* for M. F. Patterson Dental Supply Co.

Before ROBB and VAN ORSDEL, Justices, and SMITH, Judge U. S. Court of Customs Appeals.

VAN ORSDEL, *J.:*

Appellant Tinker appeals from the decision of the Commissioner of Patents dismissing his petition for the cancellation of a trade-mark under the provisions of section 13 of the Trade-Mark Act of February 20, 1905 (33 Stats. L., 724).

[1] On April 6, 1920, registration was granted appellee company of the word "INKTER," as a trade-mark used on gold and platinum alloy metal for dental inlays and bridge work. Petitioner, a practicing dentist, originated a gold alloy which bears his name and has come into general use by dentists. Dr. Tinker never patented the formula, hence it has long since gone into public use under the accepted name of "Tinker Gold." It follows that anyone may use this generic name in connection with this quality of gold alloy without permission of the petitioner. (*Singer* v. *June*, 163 U. S., 169, 186; 75 O. G., 1703.)

The tribunals below proceeded upon the assumption that inasmuch as Dr. Tinker had not engaged in any business in addition to the practice of his profession, or used his name to indicate the origin of any particular alloy made by him, he is not in position to claim that he has been damaged by the registration of the mark in question.

[2, 3] We think the case turns upon a different point. The mark here registered is the surname of appellant. It is not sufficiently distinguished to disguise the object of its adoption and registration, or to meet the statutory limitation against the registration of the name of an individual or corporation as a trade-mark. Being the name of the person who originated the goods upon which it is so generally used, it is immaterial that Dr. Tinker failed to manufacture and sell goods designated by his name. A man's name is sacred against use by another as a trade-mark. As this court said in *As-*

bestone Co. v. *Philip Carey Mfg. Co.* (41 App. D. C., 507, 509; 200 O. G., 857):

The statute takes from the realm of possible registration the name of an individual, firm, corporation, or association, except under conditions not existing in this case. This limitation is founded upon sound principles of public policy. "A man's name is his own property, and he has the same right to its use and enjoyment as he has to that of any other species of property." (*Brown Chemical Co.* v. *Meyer*, 139 U. S., 540; 55 O. G., 287.)

Nor can it be appropriated against others who have acquired the right to use it.

It is well settled that a personal name cannot be exclusively appropriated by any one as against others having a right to use it; and as the name "Remington" is an ordinary family surname, it was manifestly incapable of exclusive appropriation as a valid trade-mark, and its registration as such could not in itself give it validity. (*Howe Scale Co.* v. *Wyckoff, Seamans & Benedict*, 198 U. S., 118, 134; 116 O. G., 290.)

[4] Whatever right the public may have acquired in the use of the product known as "Tinker Gold," is beside the case, since appellant's right to object to the registration, by another, of his name as a trade-mark, is protected by statute. (33 Stats. L., 726.) Nor does the public use of the product imply any dedication of appellant's name to trade-mark use, even if such use could legally be made. The designation, "Tinker Gold," can be applied only to the formula discovered and published by Dr. Tinker. The name thus applied is merely descriptive of the gold formula. It has never acquired a trade-mark use, hence the use of the name as a trade-mark by registrant company, is in direct violation of Dr. Tinker's statutory rights. Nor is appellant required to establish damage, as the result of the registration, in order to secure cancellation. As we held in the Asbestone case, the right of an individual to have the registration of his name canceled, like the right of opposition, is statutory, and proof of actual damage is not required, it will be presumed.

The decision of the Commissioner of Patents is reversed.

U. S. Circuit Court of Appeals—Second Circuit.

WESTINGHOUSE ELECTRIC & MFG. CO. *v.* METROPOLITAN ELECTRIC MFG. CO.

Decided April 3, 1923.

[281 Fed. Rep., 528.]

PATENTS—1,224,880, FOR ELECTRIC SWITCH AND FUSE BOX, VALID, NOT ANTICIPATED, AND INFRINGED.

Claims 5, 6, 7, 10, and 12 of the Kries patent, No. 1,224,880 for an electric switch and fuse box, consisting of two compartments and so arranged that the fuse compartment cannot be opened while the switch is on, *Held* valid, not anticipated, and infringed.

APPEAL from the District Court of the United States for the Eastern District of New York.

Suit by the Westinghouse Electric & Manufacturing Company against the Metropolitan Electric Manufacturing Company. From an interlocutory decree, holding valid and infringed claims 5, 6, 7, 10, and 12 of the Kries patent, No. 1,224,880, dated May 1, 1917, for an electric switch and fuse box, and ordering a reference (278 Fed., 666), defendant appeals. Affirmed.

Mr. C. P. Goepel for the appellant.

Mr. Drury W. Cooper and *Mr. Thomas J. Byrne* for the appellee.

Before HOUGH, MANTON, and MAYER, Circuit Judges.

MAYER, *Cir. J.*:

In view of the clear description of the patent and the full recital of the claims in Judge Garvin's opinion, we need only refer to claim 5 as illustrative of the invention. That claim reads:

5. The combination, with a casing having a door hinged thereto, of fuse terminals in one part of the casing accessible when the door is open and inaccessible when the door is closed, supply terminals and live switch contacts in another part of the casing, a barrier within the casing preventing access to said supply terminals and switch contacts when the door is open, pivotally mounted switch arms within the casing for connecting said switch contacts with the fuse terminals, and means operable from without the casing for rocking the switch arms and controlling the door, said means acting to lock the door when said arms are moved toward closed position and to release the door when said arms are moved from closed position.

What the art needed was a device to prevent easy access to switchboards inclosed in boxes or holders installed extensively in manufacturing establishments and particularly in homes. Such access was dangerous to thoughtless or inexperienced persons, who might be seriously injured, and perhaps killed, by contact with exposed parts, and also made thefts of current not difficult of accomplishment. Prior to Kries, these switchboards were inclosed in a box and locked, so as to prevent access, except by the representatives of the lighting company. The fuses, however, may burn out at any time, and under the old system nothing could be done until the company's inspector appeared with his key to open the box.

To overcome this difficulty presented a very practical problem. Kries attained the desired result in a manner which now seems simple, but the very simplicity of which is one of the merits of the invention. He took the inclosing box, with its two compartments, each having a door, one containing the fuses, the other the switch members, extended an operating handle for the switch outside the box, and so arranged his elements that it was impossible to open the fuse-compartment board until the switch was "off," or, when that door was opened, to close the switch until the compartment door had been closed. Another result was that, when it is desired to have the switch remain for an extended time in its open position (as when a householder is away), the switch arm may be locked in that position, so as to make sure that the current is off the meter.

The application encountered the not unusual struggle between the reluctant Examiner and the overstating solicitor; but, notwithstanding its history, we deem the effective interlocking between fuse door and switching member in two-compartment switch boxes as the outstanding contribution to the art.

Only two prior art patents need be referred to: German patent, No. 191,485, to Oerliken, and Austrian patent, No. 36,265, to Meyer. As Hammer, plaintiff's expert said, the Oerliken patent shows—

a casing designed to contain both switch and fuses, and it does segregate the switch members in one compartment, and it does place the fuses in another and separate compartment, and there is a barrier between the two compartments, and there is an interlock between switch-actuating member and fuse compartment door.

But the switch may be closed with the door unlatched, whether by design or accident, or the switch may be closed with the door wide open, by the use of a screwdriver, or even a pencil.

The Austrian patent discloses a single-compartment device, without any barrier, containing both fuses and switches. The operating mechanism is such that it may be easily disengaged, so that the switch may be closed and the partial door left open, and there is nothing inaccessible about any part of the interior of the box.

The failure of the prior art, the effectiveness with which the device works in practice, the ease with which a layman can understand its operation, and the almost complete protection against accident and theft of current combine to make invention clear and to attribute to the disclosure a position of substantial merit. Infringement of the claims of such a patent may not be readily avoided by substituting a less efficient device, while adopting the features which give the invention vitality.

Defendant's device, so far as concerns the interlocking mechanism, is a faithful copy of Figure 6 of the patent drawings, except for some minor mechanical details of no consequence. The district judge put the matter aptly when he said:

Defendant contends that plaintiff's barrier between the two compartments of the box does not go all the way across the casing. This appears to be true, but it is of no consequence, for the opening is so slight that it is well-nigh impossible to get the hand through (thus practically eliminating danger), while the connection that could be made by slipping through a hook, with wire attached, to steal current, would be so imperfect that but little loss would be possible by that means. It is finally claimed that there is no infringement, because in plaintiff's patent the door is closed by the closing of the switch, whereas in defendant's the switch may be closed by the closing of the door. An inspection reveals, however, that the closing of the switch in defendant's device will close the door. The conclusion is reached that defendant's box differs from that of plaintiff's only in slight and nonessential particulars, and that the claims of the patent in suit are infringed.

Finally, it is urged that "barrier" and "inaccessible" used, for instance, in claim 5, supra, are indefinite terms, and that, unless the claims are limited to an impenetrable barrier or complete inaccessibility, they must be held void for indefiniteness. This contention is followed by the argument that, because some one might be able deliberately to injure himself in handling defendant's box, or might more readily steal current than would be possible in a device responding to the claims of the patent, therefore that the claims are not infringed. The patentee rather extravagantly had said in his specification:

I * * * preclude all chance of accidental contact with live wires or conductors, and render impossible the taking of current from within the box or chamber while said box is open.

But all such descriptions are relative within appropriate limits. Nothing mechanical is a perfect barrier nor a perfect defense against accessibility, although in this case the invention reasonably approximates perfection in this regard. No one really desiring to avoid infringement need be deceived in this respect. We have indicated so plainly that there are words not susceptible of mathematical definition, which nevertheless fairly describe what is meant to be conveyed to the skilled worker in the art, that there should be no further doubt on the point. (*Eibel Process Co.* v. *Remington-Martin Co.*, 234 Fed., 624; 148 C. C. A., 390; *Vacuum Cleaner Co.* v. *Innovation Co.*, 239 Fed., 543; 152 C. C. A., 421; *E. J. Manville Co.* v. *Excelsior Needle Co.*, 167 Fed., 540; 93 C. C. A., 216; *Blair* v. *Jeannette McKee Glass Works*, C. C., 161 Fed., 355.)

Decree affirmed, with costs.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

787,814, J. D. Wolf, Separation of metals from their ores, suit filed April 11, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/284, *Wolf Mineral Process Corp.* v. *St. Joseph Lead Co.*

793,240, L. M. Todd, Printing apparatus; 1,841,076, C. H. Sampson, Check-printing machines, suit filed April 21, 1923, U. S. D. C., S. D. N. Y., Doc. E 23/319, *Todd Protectograph Co.* v. *New Era Mfg. Co. and Others.*

841,387, L. de Forest, Devices for amplifying feeble electrical currents; 879,532, same, space telegraphy, suit filed April 4, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/224, *Radio Corp. of America and Others* v. *F. Alexander and Others.*

852,332, G. M. Laub, Paper patterns; 891,939, same, Garment patterns, suit filed April 19, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/309, *Excella Pattern Co., Inc.* v. *The McCall Co.*

855,038. (See 948,806.)

879,532. (See 841,387.)

891,939. (See 852,332.)

948,719. L. Callahan, Material-transferring apparatus, suit filed Sept. 6, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/276, *W. H. Insley* v. *Ransome Concrete Machinery Co.* Order dismissing suit.

948,806, 855,038, H. P. Ball, Music rolls for mechanical music instruments, suit filed Mar. 27, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/208, *Holland Development Co.* v. *Hardman-Peck & Co., Inc.*

999,457, G. E. Kellar, Flume gates, suit filed Dec. 4, 1922, U. S. D. C., S. D. Calif. (N. D.), Doc. B-87, *Martin Iron Works* v. *W. A. Waterman.*

1,082,140, Schonemann & Rauchle, Lock for neck chains, bracelets, and the like, suit filed Mar. 27, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/242, *T. W. Miller (Alien Property Custodian) and Others* v. *J. J. Felsenfeld.*

1,158,933, Kohman, Hoffman & Blake, Manufacture of bread; 1,282,867, same, Bread-making composition, suit filed May 2, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/358, *Ward Baking Co.* v. *G. Gould (The Nudo Process Co.).*

1,216,140, A. Kurtz, Lining for hats, suit filed May 2, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/349, *A. Kurtz and Others* v. *S. Cohn and Others (S. Cohn Co.).* Preliminary injunction granted.

1,229,102, B. E. Lloyd, Talking doll; 1,277,229, same, Sounding device for dolls, suit filed Mar. 29,

1922, U. S. D. C., S. D. N. Y., Doc. E 23/248, *B. E. Lloyd and Others* v. *B. E. Fleischaker and Others (Fleischaker & Baum, Inc., The Gerling Toy Co., Inc.)*. Preliminary injunction granted.

1,229,986, L. K. Litchfield, Garments, suit filed April 26, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/331, *Brohman Co.* v. *Economy Works.* Consent decree in favor of plaintiff and granting permanent injunction.

1,261,692, W. R. Buxton, Key cases, suit filed Feb. 6, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/101, *Buxton, Inc.* v. *D. I. Reiter (Kayendee Metal Mfg. Co.)*. Consent decree in favor of plaintiff sustaining patent. Perpetual injunction granted.

1,269,964, T. C. Schenk, Clamping device for the connection of poles, balks, and the like; 1,431,186, same, Device for clamping timbers together, suit filed Mar. 28, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/211, *Schenk Timber Clamp Corp. and Others* v. *Pyle-Rogers Corp.*

1,277,229. (See 1,229,102.)

1,282,867. (See 1,158,983.)

1,341,076. (See 793,249.)

1,405,209, H. Halle, Calculating attachment for typewriting machines, suit filed Feb. 1, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/82, *Elliott-Fisher Co.* v. *Remington Typewriter Co., Inc., and Others.* Bill dismissed as to Remington Typewriter Co. of Delaware for want of jurisdiction.

1,408,139, M. V. Pruzan, Brassière, suit filed Apr. 27, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/338, *Boyshform Brassiere Co., Inc.* v. *B. Altman & Co., Inc.*

1,411,231, M. L. Weiss, Vulcanization accelerators, interlocutory decree in favor of plaintiff granting perpetual injunction, injunction suspended, U. S. D. C., S. D. N. Y., *Dovan Chemical Corp.* v. *National Aniline & Chemical Co., Inc.*

1,414,321, A. Zwiebelson, Brassière, consent decree sustaining patent and granting injunction, U. S. D. C., S. D. N. Y., *A. Zwiebelson (Mollie Mayer)* v. *La Belle Brassiere Corp.*

1,431,186. (See 1,269,964.)

1,431,408, Melniker & Calmanson, Support for hammocks, suit filed Mar. 28, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/210, *Melniker Hammock Mfg. Co., Inc.* v. *Manhattan Mirror Works, Inc.*

Des. 59,252, J. W. Mayer, Ring or similar article, Consent decree in favor of plaintiff, granting permanent injunction, U. S. D. C., S. D. N. Y., *J. W. Mayer and Others* v. *Fourteen Karat Finding Co., Inc., and Others.*

T. M. 62,016. (See T. M. 62,821.)

T. M. 62,124. (See T. M. 62,821.)

T. M. 62,516. (See T. M. 62,821.)

T. M. 62,821, T. M. 75,976, Vacuum Oil Co., Lubricating, illuminating, and heating oils, greases, etc.; T. M. 62,124, same, Oils, greases, and waxes for the preservation of leather, T. M. 62,516, same, Illuminating waxes, floor and linoleum dressing waxes, etc.; T. M. 62,016, same, Salad oil, bill taken pro confesso and permanent injunction issued, U. S. D. C., M. D. Pa., *Vacuum Oil Co.* v. *American Auto Accessories Stores, Inc., and Others.*

T. M. 75,976. (See T. M. 62,821.)

ADJUDICATED PATENTS.

(U. S. D. C. N. Y.) Wigginton patents, 1,174,458 and 1,222,705, for temporary binder or loose-sheet holder, *Held* invalid. *Kalamazoo Loose Leaf Binder Co.* v. *Wilson Jones Loose Leaf Co.*, 286 Fed. Rep., 715.

(U. S. D. C. N. Y.) Farron patents, 1,194,284, except claim 5, and 1,197,468, relating to binder device, *Held* void for want of invention. *Kalamazoo Loose Leaf Binder Co.* v. *Wilson Jones Loose Leaf Co.*, 286 Fed. Rep., 715.

(U. S. D. C. N. Y.) Farron patent, 1,194,284, claim 5, for adjustable rack and binder, *Held* void for want of invention. *Kalamazoo Loose Leaf Binder Co.* v. *Wilson Jones Loose Leaf Co.*, 286 Fed. Rep., 715.

(U. S. D. C. N. Y.) Patent 1,270,082, for binder with side member flat, *Held* void. *Kalamazoo Loose Leaf Binder Co.* v. *Wilson Jones Loose Leaf Co.*, 286 Fed. Rep., 715.

(U. S. D. C. Tex.) Patents 1,411,391, 1,422,637, and 1,424,530, *Held* valid and claims 1-3 of the first patent and claims 1, 2 of the third patent infringed. *Tucker Bros. Mfg. Co.* v. *Dallas Machine & Tool Co.*, 286 Fed. Rep., 754.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,381,351, Shaw and Skadan, Clamp, decided Mar. 24, 1923, claim 1.

Pat. 1,400,691, L. Malstrom, Method of producing artificial-flower petals, decided Mar. 23, 1923, claim 5.

Changes in Classification.

(Order No. 2,810.)

U. S. PATENT OFFICE, *Washington, Apr. 20, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 187, Elevators (Division XLVII), in subclass 29, Control mechanism, Electric, in the fourth line of the first note following the definition cancel the words "for the normal control of elevator motors" and substitute therefor *involving features peculiar to electric motor control, other than the mere inclusion of electric motor, main and directional switches*, and cancel the last sentence of the note, and in the second line of the search note cancel the words "electrical elevator" and substitute therefor *electric motor*. In subclasses 31, Control mechanism, Door actuated, Electric; 43, Control mechanism, Operator actuated, Electric; and 48, Control mechanism, Controller locks, Door actuated, Electric, in the second line of the search note insert the word *motor* between the words "electric" and "control." In subclasses 32, Control mechanism, Landing stops, and 35, Control mechanism, Limit, Electric, in the second line of the search note cancel the word "electrical" and substitute therefor *electric motor.*

In class 26, Textiles, Cloth Finishing (Division XXI), establish subclass—

21. Splitting double pile fabrics.

The patents contained in this subclass have been taken from class 139, Textiles, Weaving, subclass 50, Cutting double pile fabrics, hereinafter abolished.

In class 139, Textiles, Weaving (Division XXI), abolish the existing subclasses and establish in lieu thereof the following subclasses and definitions:

139.—TEXTILES, WEAVING.
1. Miscellaneous.
2. Pile tufting—
3. Around warp—
4. Oriental knot—
5. Warp traversing,
6. Portable supply,
7. Portable supply—
8. Including tuft presenting—
9. Tuft presenting—
10. Tube frames.
11. Special-type looms—
12. Progressive shedding—
13. Circular—
14. Open back,
15. Contacting shuttle and shed control,
16. Radial heddle movement,
17. Open-back shed,
18. Vertical shed—
19. Seed-corn stringers,
20. Multiple shed—
21. Pile,
22. Narrow ware—
23. Rack and pinion shuttle motions,
24. Irregular warp feed—
25. Terry—
26. Beat-ups—
27. Separate reed,
28. Pushed shed pocket,
29. Hand looms—
30. Pushed harness—
31. Cam shedding,
32. Cam shedding,
33. Manual shedding,
34. Warp frames.
35. Warp manipulation—
36. Fluid treatment,
37. Pile—
38. Loop hook,
39. Transverse wire—
40. Wire control—
41. Including end motions—
42. End motions,
43. Separate cutting mechanism,
44. Pile wires,
45. Oiling,
46. Longitudinal wire, traversing—
47. Anchored release end,
48. Traversing—
49. Lappet,
50. Leno or gauze—
51. Doup heddle—
52. Heddles,
53. Needle-eye heddle,
54. Selvage,
55. Shedding—
56. Disconnecting mechanism,
57. Pushed harness—
58. Double-acting cam,
59. Jacquard—
60. Knotted cord,
61. Multiple cylinder,
62. Group control,
63. Locked open shed,
64. Mid-closing,
65. Double lift,
66. Dobby—
67. Vibrating griff—
68. Jacquard pattern,
69. Mid-closing—
70. Curved motion,
71. Double lift—
72. Locked open shed—
73. Irreversible transmission,
74. Evener direct,
75. Harness levelers,
76. Rotating actuator—
77. Vibrator gear,
78. Pattern direct,
79. Cam—
80. With varying means,
81. Double-acting,
82. Harnessing—
83. Power to both sides,
84. Power to top—
85. Jacquard—
86. Comber boards,

139.—TEXTILES, WEAVING—Con.
Warp manipulation—
Shedding—
Harnessing—
87. Inter-harness-connections,
88. Strap connections,
89. Retractors—
90. Lingoes,
91. Harnesses—
92. Supplemental heddle rod,
93. Heddles—
94. Separate eye,
95. Twisted wire,
96. Perforated strip,
97. Feeding—
98. Lease rods,
99. Interconnected let-offs and take-ups,
100. Let-offs—
101. Multiple—
102. Pile,
103. Tension regulated,
104. Independent of supply,
105. Speed regulation—
106. Exhaustion compensated—
107. Radius—
108. For positive,
109. Tension—
110. For positive,
111. Automatic arresters—
112. Beat-up resisting,
113. Manual resetters,
114. Whip rolls—
115. Positive slackeners.
116. Weft manipulation—
117. Special length—
118. Fringe,
119. Swivel shuttle—
120. With main-shuttle control,
121. With rack and pinion,
122. Stationary supply—
123. Needle—
124. With selvage formers,
125. Shuttle type—
126. Cut lengths,
127. Cut lengths,
128. Separate wefts—
129. Without shedding,
130. Pulled in—
131. Shuttle type,
132. Selectors,
133. Shuttle motions—
134. Magnetic,
135. Narrow ware, positive—
136. Rack and pinion—
137. Weft change,
138. Actuators,
139. End engagement—
140. Single shuttle,
141. End engagement, positive,
142. Fly—
143. Intermediate pickers,
144. Pneumatic,
145. Spring propelled,
146. Lay-carried stick—
147. Vertical bell crank,
148. Foot actuated,
149. Foot construction—
150. Rocker,
151. Lug connections—
152. Foot supported,
153. Lug straps,
154. Lug-strap supports,
155. Shuttle positioners.
156. Disconnecting mechanisms,
157. Picker sticks,
158. Picker spindles,
159. Pickers—
160. Spindle-guided pickers,
161. Picker checks—
162. Special connection,
163. Friction—
164. Lateral,
165. Double-acting shifter,
166. Nonmetallic buffer,
167. Spring buffer—
168. With taut strap,

139.—TEXTILES, WEAVING—Con.
Weft manipulation—
Shuttle motions—
Fly—
Picker Checks—
Spring buffer—
169. With pivoted arm,
170. With offset arm,
171. Box-change motions—
172. Revoluble box,
173. Vibrating actuator and wheel—
174. Rack and pinion,
175. Vibrating actuator and catch—
176. Varied—
177. Step type,
178. Rotating actuator and gear—
179. Axial shift,
180. Vibrator gear,
181. Connecting motions,
182. Box-supporting instrumentalities,
183. Shuttle boxes—
184. Multiple,
185. Shuttle checks—
186. Shuttle actuated,
187. Relieving,
188. Lays or beat-ups,
189. Loose reed,
190. Motions—
191. Separate reed,
192. Reeds,
193. Shuttle guards,
194. Tensions,
195. Selvage-loop retainers,
196. Shuttles—
197. Types—
198. Exteriorly-supported cop,
199. Bow—
200. Brake tension,
201. Tortuous-course tension,
202. Roller bearing,
203. Detecting—
204. Float,
205. Exhaust,
206. Thread-carrier supports—
207. Automatically replenished,
208. Pivoted spindle—
209. Detachable,
210. Spindle-actuated retainer—
211. Exterior,
212. Thread delivery control—
213. Uncoiling engagement,
214. Tortuous course—
215. Threader slot,
216. Spring clamp—
217. Threader slot,
218. Friction material—
219. Threader slot—
220. Loom threading,
221. Threading feature—
222. Slot—
223. Loom threading,
224. Replenishing—
225. With other loom parts control—
226. Suspension—
227. Of main shaft,
228. Of stopping,
229. Delayed,
230. Prevented—
231. Revoked,
232. Multicolor type—
233. Feeler mechanism,
234. Shuttle changing—
235. Manually controlled,
236. Supply and discharge at different ends,
237. Exhausted shuttle deflected,
238. Contacting shuttles,
239. Movable shuttle box—
240. Progressive,
241. Bobbin changing—
242. By moving transferrer—
243. Lay actuated,
244. Transferrer tips,

139.—TEXTILES, WEAVING—Con.
Weft manipulation—
Replenishing—
Bobbin changing—
245. Bobbin supply—
246. With thread control—
247. With gravity feed,
248. With rotary battery,
249. Rotary battery—
250. Battery feeds,
251. Bobbin guides or supports,
252. Shuttle positioners—
253. Inner tip pushers,
254. Bobbin-smash preventers,
255. Ejected-bobbin receivers,
256. Thread control—
257. Incoming thread—
258. Attached to magazine—
259. Shuttle threading,
260. Positioning outgoing thread for cutting,
261. Shuttle clearing—
262. With bobbin manipulation,
263. Cutting mechanism—
264. On shuttle feeler,
265. On lay,
266. On temple,
267. Operated by transfer,
268. Operation prevented,
269. Feeler mechanisms—
270. Suspended actuation,
271. Positively withdrawn—
272. Lay carried,
273. Electric,
274. Magnetic,
275. Detector in shuttle,
276. Becoming quiescent—
277. With auxiliary bobbin and shuttle contact,
278. Yarn impinging and lay actuation,
279. Yarn impinging and penetrating members,
280. Rotary,
281. Side slipping—
282. Spring stressed—
283. Pivoted carrier,
284. Slidable carrier,
285. Pivoted carrier,
286. Slidable carrier,
287. Feeler tips,
288. Positioners,
289. Feeler cooperating bobbin elements,
290. Stopping devices,
291. Fabric manipulation—
293. Temples—
293. Clamping jaw,
294. Rotary—
295. Roller and pod,
296. Roller surfaces,
297. Bearing for rollers,
298. Supports—
299. Sliding,
300. Displacing means,
301. Positioning adjustments,

139.—TEXTILES, WEAVING—Con.
Fabric manipulation—
302. Selvage trimmers—
303. Lay actuated,
304. Take-ups—
305. Irregular shape,
306. Traversing,
307. Sand-roll type—
308. Contacting wind-up,
309. Speed regulation—
310. Increase compensated,
311. Tension,
312. Manual,
313. Automatic let-backs,
314. Automatic arresters,
315. Fraud preventers,
316. Manual resetters.
317. Pattern mechanisms—
318. Picture pattern—
319. Electrical,
320. Lateral shift,
321. Skip motions,
322. Multiple cylinder—
323. With control pattern,
324. Reverse—
325. With control pattern,
326. Multipliers,
327. Loom-part control,
328. Reset,
329. Cylinder motions,
330. Cylinders,
331. Feelers,
332. Pattern guides,
333. Patterns—
334. Movable pins,
335. Cards.
336. Stopping—
337. Harness-mechanism actuated,
338. Pattern-mechanism actuated,
339. Take-up-mechanism actuated,
340. Predetermined,
341. Shuttle-position detectors—
342. Improper presence in shuttle box—
343. Shuttles in both boxes,
344. Positive-shuttle-motion type,
345. Protector-rod type—
346. With sliding frog,
347. With relief mechanism,
348. Thin-place detectors,
349. Warp—
350. With leasing,
351. With break locating,
352. Nonindividual detector,
353. Electrical—
354. Pivoted detector,
355. Shed-lifted detector—
356. Lay knock-off,
357. Lay knock-off,
358. Supports,
359. Nonarrestable vibrator,
360. Arrestable vibrator—
361. Pivoted detector—
362. Lay knock-off,
363. Shed-lifted detector—
364. Lay knock-off,
365. Transverse motion—
366. Lay knock-off,
367. Lay knock-off,
368. Detectors,

139.—TEXTILES, WEAVING—Con.
Stopping—
Warp—
369. Supports,
370. Weft—
371. Detector in shuttle,
372. Detector fork—
373. Vibration preventers,
374. Lay carried—
375. Dropping—
376. Supplementally aided,
377. Slidable tilting—
378. Forks,
379. Grids and cleaners.
380. Weavers' implements—
381. Shuttle threaders—
382. Pneumatic.
383. Fabrics—
384. Special shape—
385. Fringes,
386. Curved,
387. Tubular—
388. Uniform,
389. Bags and pockets—
390. Permanently united,
391. Pile—
392. Weft—
393. Chenille—
394. Multiweft planes,
395. Chenille strands,
396. Terry,
397. Separable fabrics—
398. Each with multiweft planes,
399. Tufted—
400. Oriental knot,
401. Multiweft planes,
402. Regularly-shedded warp—
403. Multiweft planes,
404. Selected warp—
405. Multiweft planes—
406. Divided by stuffer warp,
407. Separable,
408. Multiweft planes—
409. Independent plies—
410. Two ply,
411. Three weft planes—
412. Separated weft,
413. Two weft planes—
414. Separated weft—
415. Divided by stuffer warp,
416. Figured, single weft plane—
417. Striped,
418. Double-faced,
419. Cross weave,
420. Materials—
421. Elastic—
422. Inelastic sections,
423. Multiweft planes,
424. Including straw or vegetable stalks,
425. Including metal,
426. Textile-thread type—
427. Including nonfelting animal fibers—
428. Silk.

THOMAS E. ROBERTSON, *Commissioner.*

TRADE-MARKS

OFFICIAL GAZETTE, MAY 15, 1923.

[VOL. 310. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 111,114. (CLASS 39. CLOTHING.) ARTHUR LETTS, Los Angeles, Calif. Filed May 22, 1918.

American Boy

Particular description of goods.—Boys' Suits, Overcoats, Nightshirts, Pyjamas, Shirts, Blouses, Knitted and Textile Underwear, Pants, Wash Suits, Rompers.
Claims use since July 17, 1911.

Ser. No. 138,292. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) OSCAR J. MILNOR, Rutherford, N. J. Filed Oct. 14, 1920.

VANITILITE

Particular description of goods.—Ladies' Vanity Bags.
Claims use since Aug. 1, 1920.

Ser. No. 139,240. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARA I. WOOD, doing business as Snapo Food Products Company, New York, N. Y. Filed Nov. 5, 1920.

Snapo

Particular description of goods.—Highly-Seasoned Sauce for Use on Meat and Fish.
Claims use since Nov. 1, 1920.

Ser. No. 139,518. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THOMAS A. EDISON, INCORPORATED, West Orange, N. J. Filed Nov. 11, 1920.

Electrip

Particular description of goods.—Devices for Controlling the Starting and Stopping of Phonographic Apparatus.
Claims use since Mar. 30, 1920.

Ser. No. 141,229. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LABORATORY SPECIALTY COMPANY, Cincinnati, Ohio. Filed Dec. 17, 1920.

Elesco

Particular description of goods.—Toilet Preparations Consisting of Liquid Shampoos for the Hair; Liquid Lotions for the Face, Hands, and Body; Hair Tonics, Salves for Lips, Sunburns, Etc., Flesh Cleansers for Cleansing the Skin, Rouge for the Cheeks, Cream Massage for Eradicating Wrinkles, Dandruff Remedy, Paste Skin Bleach, and Perfumed Powders for Face and Body.
Claims use since Jan. 1, 1920.

Ser. No. 141,447. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TEA & COFFEE CO., INC., Nashville, Tenn. Filed Dec. 23, 1920.

Blue Bird

Particular description of goods.—Spices.
Claims use since about Nov. 25, 1919.

Ser. No. 144,429. (CLASS 39. CLOTHING.) THE R. & J. WAIST COMPANY, New London, Conn. Filed Mar. 7, 1921.

Little Wonder

Particular description of goods.—Children's Waists and Shirts, Particularly Underwaists with or without Hose Supporters Attached Thereto.
Claims use since about June, 1916.

Ser. No. 147,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ELM CITY CANDY CO., INC., New Haven, Conn. Filed May 14, 1921.

HEAPS

Particular description of goods.—Candy.
Claims use since Oct. 15, 1920.

Ser. No. 148,383. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) GENERAL EXPLOSIVES COMPANY, Chicago, Ill. Filed May 28, 1921.

GENERAL EXPLOSIVES COMPANY TRADE MARK U.S.A.

No claim is made to the exclusive use of the wording "Trade-Mark" or the abbreviation "U. S. A." apart from the mark as shown in the drawing.
Particular description of goods.—Explosives.
Claims use since Oct. 15, 1920.

Ser. No. 149,480. (CLASS 17. TOBACCO PRODUCTS.) LEOPOLD POWELL & Co., New York, N. Y. Filed June 21, 1921.

BELAIRE

Particular description of goods.—Cigars, Cheroots, and Little Cigars.
Claims use since Feb. 9, 1901.

Ser. No. 153,771. (CLASS 39. CLOTHING.) PALM KNITTING CO., INC., New York, N. Y. Filed Oct. 5, 1921.



Particular description of goods.—Knitted Garments—Namely, Sweaters.
Claims use since about June 30, 1921.

Ser. No. 153,772. (CLASS 39. CLOTHING.) PALM KNITTING CO., INC., New York, N. Y. Filed Oct. 5, 1921.

PALM-KNIT

Particular description of goods.—Knitted Garments—Namely, Sweaters.
Claims use since about June 30, 1921.

Ser. No. 153,773. (CLASS 39. CLOTHING.) PALM KNITTING CO., INC., New York, N. Y. Filed Oct. 5, 1921.

PALM-KNIT

Particular description of goods.—Knitted Garments—Namely, Sweaters.
Claims use since June 30, 1921.

Ser. No. 154,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES A. WAYBORN, doing business as Jameway Co., Brooklyn, N. Y. Filed Oct. 26, 1921.

POUND CARBONATED PAK

No claim is made to the words "Carbonated," "Pound," or "Pak" apart from other features of the mark as shown.
Particular description of goods.—Prunes.
Claims use since on or about Oct. 10, 1921.

Ser. No. 156,095. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) MITSUI BUSSAN KAISHA, LTD., Tokyo, Japan. Filed Nov. 30, 1921.

MAYFLOWER

In the drawing the lining indicates the shading only.
Particular description of goods.—Matches.
Claims use since Aug. 4, 1921.

Ser. No. 156,593. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN BLAUGAS COMPANY, St. Paul, Minn. Filed Dec. 12, 1921.

NAPTHA-CUT

Particular description of goods.—Naphthalene Solvent for Gas Mains and Services.
Claims use since Nov. 25, 1921.

Ser. No. 157,315. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) REMBRANDT L. HAWKINS, Cincinnati, Ohio. Filed Dec. 30, 1921.

HAWKIN'S GREEN SEAL BANDAGE

The words "Trade-Mark" and "Bandage" are not claimed as any part of the mark herein.
Particular description of goods.—Elastic Bandages Made without Rubber.
Claims use since Dec. 14, 1921.

Ser. No. 158,645. (CLASS 32. FURNITURE AND UPHOLSTERY.) HAROLD A. PEART, doing business as Sprague & Carleton, Keene, N. H. Filed Jan. 30, 1922.

S. & C.

Particular description of goods.—Porch Chairs, Porch Rockers, and Settees.
Claims use since Oct. 24, 1908.

Ser. No. 158,646. (CLASS 32. FURNITURE AND UPHOLSTERY.) HAROLD A. PEART, doing business as Sprague & Carleton, Keene, N. H. Filed Jan. 30, 1922.



Trade-Mark consists of the representation of a maple leaf.
Particular description of goods.—Porch Chairs, Porch Rockers, and Settees.
Claims use since Dec. 1, 1921.

Ser. No. 158,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREEN & GREEN COMPANY, Dayton and Cincinnati, Ohio. Filed Feb. 2, 1922.

GOOD GOODS

No claim is made to the words "Good Goods." The shading indicates two tones of green.
Particular description of goods.—Crackers and Cakes, as Animal Crackers, Vanilla Drops, Vanilla Wafers, Parfait Wafers, Ginger Snaps, Oyster Puffs, Graham Wafers, Longfellow Flakes, Fig Bars, Sugar Wafers, Polo Wheat Nuts, Cheese Wafers, Soda Biscuits, and Cracker Meal.
Claims use since Nov. 9, 1914.

Ser. No. 158,835. (CLASS 7. CORDAGE.) E. T. RUGG & CO., Newark, Ohio. Filed Feb. 3, 1922.

RUGG
OCEAN BRAND MANILA
ROPE

No claim is made for the words "Rope," "Brand," and "Manila" apart from the mark shown on the drawing.
Particular description of goods.—Cordage.
Claims use since Jan. 15, 1921.

Ser. No. 158,902. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHLATER'S, INCORPORATED, Philadelphia, Pa. Filed Feb. 4, 1922.

Schlaters

No claim made to the words "If it Isn't" and "It Isn't the Best."
Particular description of goods.—Bread, Cakes, and Pies.
Claims use since May 1, 1899.

Ser. No. 160,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEBANNON OIL CO., Chicago, Ill. Filed Mar. 9, 1922.

LEBANNON OIL CO.
SALAD OIL

No claim made to the words "Salad Oil" or to the words or Hebrew marks appearing in the drawing apart from the marks shown in the drawing. The Hebrew marks appearing in the drawing, translated into English, are as follows, reading from right to left and from top to bottom: "Lebannon, Oil Lebannon Kosher, Salad Oil."
Particular description of goods.—Salad Oil.
Claims use since Feb. 21, 1922.

Ser. No. 161,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY N. BRAWNER, Jr., doing business as Chestnut Farms Dairy, Washington, D. C. Filed Mar. 28, 1922.

CHESTNUT FARMS

Particular description of goods.—Raw and Pasteurized Milk, Butter, Eggs, and Cheese.
Claims use since Dec. 15, 1921.

Ser. No. 161,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TATE & LYLE LIMITED, London, England. Filed Apr. 3, 1922.

TATE
AFTERNOON
TEA CUBES

Particular description of goods.—Sugar.
Claims use since Mar. 1, 1903.

Ser. No. 162,226. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 12, 1922. Undtr ten-year proviso.

Dr. E. H. Angle

The trade-mark consists of the name "Dr. E. H. Angle."
Particular description of goods.—Orthodontic Appliances Comprising Head Gears, Chin Retractors, Contraction Arches, Traction Bars, Anchor Clamp Bands, Fracture Bands, Band Material, Elastic Bands for Orthodontia Use, Regulating Bands, Retaining Pipes, Traction Screws, Arch Pins, Headed Spurs, Cleats, Jackscrews, Sheath Hooks, Anchor Tubes, Rotating Levers, Pliers, and Devices and Materials Employed in the Art of Orthodontia.
Claims use since 1894.

Ser. No. 162,547. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER J. HIRSCH COMPANY, Chicago, Ill. Filed Apr. 19, 1922.



Particular description of goods.—Candy.
Claims use since Feb. 1, 1922.

Ser. No. 162,948. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS H. PEPPERS, Los Angeles, Calif. Filed Apr. 26, 1922.

SweetestYet

Particular description of goods.—Cantaloupes, Fresh Citrous Fruits, and Fresh Grapes.
Claims use since May 20, 1921.

Ser. No. 163,267. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GURLEY CANDY COMPANY, Minneapolis, Minn. Filed May 3, 1922.

JAP-O-JELS

Particular description of goods.—Candy.
Claims use since January, 1920.

Ser. No. 163,859. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUBERT C. CAREL, doing business as The Benetol Company, Minneapolis, Minn. Filed May 15, 1922.

Benetol
GLYCERITE OF NAPHTHOL

No claim made to the words "Glycerite of Naphthol."
Particular description of goods.—Pharmaceutical Preparations—Namely, a Liquid Germicide, Said Antiseptic, Disinfectant, and Deodorant to be Used as a Tooth Paste, Tooth Cream, Catarrh Jelly, Ointment for Skin Diseases and Injuries, Hemorrhoids, and Fistulæ; Nebulizing Oil, Powder for the Skin.
Claims use since July, 1907.

Ser. No. 164,049. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed May 18, 1922.

CRESCENT

Particular description of goods.—Box Springs.
Claims use since Jan. 1, 1918.

Ser. No. 164,057. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDOUARD KOEHN, Geneva, Switzerland. Filed May 18, 1922.

THERMINDEX

The trade-mark consists of the fancy word "Therminidex."
Particular description of goods.—Index Thermometers.
Claims use since Sept. 1, 1921.

Ser. No. 164,299. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BANNING CANNING CO., Banning, Calif. Filed May 23, 1922.

ALTA CRESTA

Particular description of goods.—Canned Fruits.
Claims use since 1913.

Ser. No. 164,435. (CLASS 39. CLOTHING.) HAMMELL-NEUMAN CO., Philadelphia, Pa. Filed May 24, 1922.

NO-SHRINK-CLO-HATS

No claim is made to the word "Hats" apart from the mark shown.
Particular description of goods.—Hats for Men, Women, and Children.
Claims use since Jan. 9, 1922.

Ser. No. 164,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. WALTER, Brooklyn, N. Y. Filed May 31, 1922.

CIDER-MINT

Particular description of goods.—Masticatories—Namely, Chewing Gum and Candies.
Claims use since Apr. 25, 1922.

Ser. No. 165,507. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. L. RICE, INC., Adams, N. Y. Filed June 14, 1922.



Particular description of goods.—Dry Paint Composition.
Claims use since Apr. 1, 1900.

Ser. No. 166,292. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CANFIELD RUBBER COMPANY, Bridgeport, Conn. Filed June 30, 1922. Under ten-year proviso.

Canfield

Particular description of goods.—Dress Shields.
Claims use since Nov. 1, 1882.

Ser. No. 166,307. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMONT-CORLISS AND COMPANY, New York, N. Y. Filed June 30, 1922.

CROQUETTES

Trade-mark consists of the word "Croquettes," for chocolate.
Particular description of goods.—Chocolate.
Claims use since Apr. 9, 1903.

Ser. No. 166,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed July 1, 1922.

ILETIN

Trade-mark "Iletin."
Particular description of goods.—Medicinal Preparation for the Treatment of Diabetes and to Lower Blood Sugar, and to Diminish Acidosis.
Claims use since June 3, 1922.

Ser. No. 166,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. C. MADSON, Lanesboro, Minn. Filed July 1, 1922.

LILY SUNDAE

No claim is made to the word "Sundae" apart from the mark shown.
Particular description of goods.—Ice Cream.
Claims use since January, 1922.

Ser. No. 166,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN PICKLE & CANNING CO., Hattiesburg, Miss. Filed July 10, 1922.



The portrait of a young woman as shown in the drawing is fanciful and not the portrait of any living individual.
Particular description of goods.—Pickles and Canned Vegetables.
Claims use since June 13, 1922.

Ser. No. 166,623. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATLAS BAKING COMPANY, Chicago, Ill. Filed July 10, 1922.

ATLAS

Particular description of goods.—Cakes and Bread.
Claims use since Dec. 10, 1920.

Ser. No. 166,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. W. BAUERMEISTER CO., INC., Terre Haute, Ind. Filed July 15, 1922.



Particular description of goods.—Olives, Allspice, Savary, Mustard, Pepper, Sage, White Pepper, Thyme, Cloves, Spanish Paprika, Mace, Marjoram, Turmeric, Ginger, Curry Powder, Chili Powder, Cayenne Pepper, Nutmeg, Prepared Mustard, Salad Dressing, Chili Sauce, Pepper Sauce, Catchup, Cider Vinegar, Peanut Butter, Queen Olives.
Claims use since 1905.

Ser. No. 166,945. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRIS SOAP COMPANY, Buffalo, N. Y. Filed July 15, 1922.

SHAKER

Particular description of goods.—Soap in Liquid, Flake, Powdered, and Cake Form.
Claims use since March, 1921.

Ser. No. 167,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRIONES & COMPANY, INC., New York, N. Y. Filed July 18, 1922.

EL TORO

Particular description of goods.—Olive Oil.
Claims use since 1915.

Ser. No. 167,064. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. J. WHITTALL ASSOCIATES, Worcester, Mass. Filed July 18, 1922.

WHITTALL
HEATHER MIST
CARPET

The applicant disclaims exclusive appropriation in the descriptive term "Carpet" and also in the representation of the goods.
Particular description of goods.—Wilton and Plush Carpets.
Claims use since Apr. 14, 1922.

Ser. No. 167,868. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. WILSON DEACHMAN, Chicago, Ill. Filed Aug. 7, 1922.



No claim is made herein to the words "Auto Bio Chemic Treatment" except in the relation shown.
Particular description of goods.—Autogenous Product in the Nature of Urine Vaccine.
Claims use since Feb. 1, 1921.

Ser. No. 167,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER RABBIT STORES, Chicago, Ill. Filed Aug. 7, 1922.



Particular description of goods.—Pepper.
Claims use since about May 17, 1922.

Ser. No. 168,060. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed Aug. 10, 1922.

Pansy BRAND



The word "Brand" does not form a part of the mark for which registration is sought apart from the mark shown in the drawing.

Particular description of goods.—Fresh Citrous Fruits and Fresh Deciduous Fruits.

Claims use since about 1919.

Ser. No. 168,121. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OVERLAND PHARMACY CO., Boise, Idaho. Filed Aug. 11, 1922.

MAGIC BEAUTY CLAY

No claim is made to the words "Beauty Clay" apart from the mark shown in the drawing.

Particular description of goods.—Natural Clay Prepared for Use in Cleansing the Skin and Pores.

Claims use since on or about Feb. 1, 1921.

Ser. No. 168,124. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE POM CHEMICAL CO. INC., Lebanon, Pa. Filed Aug. 11, 1922.

K-DIX

Particular description of goods.—Renovating, Cleaning, and Metal-Polishing Preparations.

Claims use since May 10, 1922.

Ser. No. 168,408. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RODOLFO FLORES, doing business as Sana-Cutis (Chemical) Co., Sedalia, Mo. Filed Aug. 18, 1922.



Particular description of goods.—Vanishing Face Cream and Cold Cream.

Claims use since Dec. 25, 1921.

Ser. No. 168,421. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGS COUNTY PACKING CO., Armona, Calif. Filed Aug. 18, 1922.

GOLDEN ORCHARD

Particular description of goods.—Canned Fruits.

Claims use since 1916.

Ser. No. 168,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COVERDALE & BRUEBAKER, Sioux City, Iowa. Filed Aug. 24, 1922.

Sherbicle

Particular description of goods.—Sherbet Bars.

Claims use since Aug. 20, 1922.

Ser. No. 168,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. E. SHAFFNER CO., Portland, Oreg. Filed Aug. 28, 1922.

Shaflex

Particular description of goods.—Food-Flavoring Extracts—Namely, Vanilla Extract, Apricot Extract, Coffee Extract, Crushed Fruits, and Canned Fruits.

Claims use since Apr. 15, 1921.

Ser. No. 168,636. (CLASS 37. PAPER AND STATIONERY.) COLLINS MFG. CO., Holyoke, Mass. Filed Aug. 29, 1922.

ACTIVE BOND

No exclusive claim is made to the use of the word "Bond" apart from the mark shown.

Particular description of goods.—Bond Writing and Printing Paper.

Claims use since March, 1917.

Ser. No. 169,002. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARTER DRY GOODS CO., Louisville, Ky. Filed Sept. 2, 1922.

PICKANINNY

Particular description of goods.—Percales in the Piece.

Claims use since Jan. 1, 1907.

Ser. No. 169,004. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARTER DRY GOODS CO., Louisville, Ky. Filed Sept. 2, 1922.

SOUTHERN

Particular description of goods.—Madras in the Piece.

Claims use since July 1, 1902.

Ser. No. 169,006. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARTER DRY GOODS CO., Louisville, Ky. Filed Sept. 2, 1922.

UNEEDA

Particular description of goods.—Percales in the Piece.

Claims use since Jan. 1, 1912.

Ser. No. 169,293. (CLASS 15. OILS AND GREASES.) CLYDE R. GILLETT, doing business as Gillett Chemical Works, Sacramento, Calif. Filed Sept. 11, 1922.



The word "Oil" is disclaimed except as used in connection with the balance of the mark.

Particular description of goods.—Lubricating Oils.

Claims use since June 1, 1922.

Ser. No. 169,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MIDLAND FLOUR MILLING CO., Kansas City, Mo. Filed Sept. 12, 1922.

BESSIE ANNA

Particular description of goods.—Bran.

Claims use since July, 1922.

Ser. No. 169,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN DEAN, Hoboken, N. J. Filed Sept. 14, 1922. Under the proviso.

MRS. JOHNSTONE'S FAMOUS EDINBURGH SCOTCH BALL CANDIES

Particular description of goods.—Candy.

Claims use since about Mar. 1, 1885.

Ser. No. 169,764. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE KANTER, Atlanta, Ga. Filed Sept. 21, 1922.

CHERRY SURPRISE

Particular description of goods.—Candy.

Claims use since May 1, 1922.

Ser. No. 169,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed Sept. 23, 1922.

EL POMAR

Particular description of goods.—Canned Fruits and Canned Vegetables, Jams, Preserves; Dried Fruits, Olives, Olive Oil.
Claims use since June 16, 1922.

Ser. No. 169,879. (CLASS 39. CLOTHING.) ALBERT I. STRAUS, Lima, Ohio. Filed Sept. 23, 1922.

ALIS

Particular description of goods.—Ladies', Misses', and Children's Hosiery, Knit Silk and Cotton Underwear, Corsets, Brassières, Coats, Capes, Leather Gloves, Fabric Gloves, Riding Costumes, Suits, Dresses, Furs, Shirt Waists, Middies, Petticoats, Knickers, Dress Skirts, Sweaters, Bathing Suits; Silk, Wool, and Cotton Scarfs; Neckties, Negligees, Aprons.
Claims use since Sept. 1, 1922.

Ser. No. 169,934. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Sept. 25, 1922.



No claim is made for the purpose of this registration, but without waiving any common-law rights thereto, to the words "High Quality" appearing on the drawing or to the words "The Sign of Quality," or to the words "We Sell" appearing on certain of the specimens filed which are used interchangeably with the words "High Quality," or to the words "Motor Gasoline" apart from the mark shown in the drawing.
Particular description of goods.—Petroleum Products—Namely, Gasoline and Naphtha.
Claims use since Feb. 27, 1917.

Ser. No. 169,935. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STAR TEXTILE MILLS, INC., Philadelphia, Pa. Filed Sept. 25, 1922.



Particular description of goods.—Wool, Worsted, Silk, Cotton, and Linen Piece Goods for Wearing Apparel for Men, Women, and Children.
Claims use since Sept. 6, 1922.

Ser. No. 170,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Oct. 6, 1922.

CHOCOLATES
REPRESENTATIVE

No claim is made to the word "Chocolates" apart from the mark shown in the drawing.
Particular description of goods.—Chocolates and Candies.
Claims use since Nov. 14, 1916.

Ser. No. 170,393. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LITTLE GIANT COMPANY, Mankato, Minn. Filed Oct. 6, 1922.



Particular description of goods.—Internal-Combustion Motors for Machine-Forging Hammers.
Claims use since Sept. 20, 1915.

Ser. No. 170,480. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRENCH IMPORTING CO., Chicago, Ill. Filed Oct. 9, 1922.

American-Beauty

Particular description of goods.—Hair Nets.
Claims use since Aug. 30, 1919.

Ser. No. 170,587. (CLASS 39. CLOTHING.) B. KUPPENHEIMER & CO., doing business as The House of Kuppenheimer, Chicago, Ill. Filed Oct. 11, 1922.

Longreach

Particular description of goods.—Men's Outer Clothing—viz, Suits, and Particularly Coats.
Claims use since Sept. 30, 1922.

Ser. No. 170,613. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION, (Baltimore Bargain House), Baltimore, Md. Filed Oct. 12, 1922.

ROMPER

Particular description of goods.—Hosiery.
Claims use since June, 1915.

Ser. No. 170,636. (CLASS 39. CLOTHING.) I. GINSBERG & BROS., New York, N. Y., assignors to Isaac Ginsberg & Brothers, Inc., a Corporation. Filed Oct. 12, 1922.

RESORT FROCKS

No claim made to the word "Frocks" excepting in the manner and form set forth in the drawing accompanying the application.
Particular description of goods.—Children's, Girls', and Women's Dresses.
Claims use since Sept. 21, 1922.

Ser. No. 170,648. (CLASS 39. CLOTHING.) DANIEL J. HEALY, Detroit, Mich. Filed Oct. 12, 1922.

DUVENE

Particular description of goods.—Men's, Women's, and Children's Hose.
Claims use since about Apr. 1, 1922.

Ser. No. 170,690. (CLASS 39. CLOTHING.) NOR-EQUL HOSIERY MILLS, INC., Reading, Pa. Filed Oct 13, 1922.

Nu-Stitch

Particular description of goods.—Hosiery.
Claims use since Aug. 1, 1922.

Ser. No. 170,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY N. BRAWNER, Jr., doing business as Chestnut Farms Dairy, Washington, D. C. Filed Oct. 14, 1922.



No claim is made to the words "Washington, D. C." apart from the other features of the mark.
Particular description of goods.—Butter, Eggs, and Cheese.
Claims use since Dec. 15, 1921.

Ser. No. 170,782. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Oct. 16, 1922.

GLASEPTIC

Particular description of goods.—Nebulizers and Syringes.
Claims use since Feb. 21, 1906.

Ser. No. 170,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REQUA BROS., Cold Spring Harbor, N. Y. Filed Oct. 17, 1922.

Requa's

Particular description of goods.—Coffee and Tea.
Claims use since Apr. 1, 1922.

Ser. No. 170,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHINOOK PACKING COMPANY, Chinook, Wash. Filed Oct. 19, 1922.

MAN OF WAR

Particular description of goods.—Canned Salmon.
Claims use since November, 1920.

Ser. No. 170,940. (CLASS 39. CLOTHING.) MEYER LIBERMAN, doing business as M. Liberman Mfg. Co., Vallejo, Calif. Filed Oct. 19, 1922.

IRONWEAR

Particular description of goods.—Pants, Vests, Coats, Work Shirts, Hiking Breeches for Men and Women.
Claims use since Aug. 30, 1922.

Ser. No. 170,975. (CLASS 2. RECEPTACLES.) JAS. H. FORBES TEA & COFFEE CO., St. Louis, Mo. Filed Oct. 20, 1922.

KEY-VAC

Particular description of goods.—Empty Containers for Coffee and the Like.
Claims use since on or about July 1, 1922.

Ser. No. 170,977. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. GROSSMITH & SON, LIMITED, London, England. Filed Oct. 20, 1922.



Particular description of goods.—Toilet Soap.
Claims use since Feb. 23, 1922.

Ser. No. 170,995. (CLASS 39. CLOTHING.) MARVIN SHAW AND CO., New York, N. Y. Filed Oct. 20, 1922.

THE HOUSE OF College Sizes

Particular description of goods.—Female Apparel—Namely, Dresses.
Claims use since Apr. 1, 1922.

Ser. No. 171,002. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Oct. 20, 1922.

PROTECTO

Particular description of goods.—Aprons for Icemen.
Claims use since Mar. 14, 1921.

Ser. No. 171,036. (CLASS 39. CLOTHING.) PHILIPSBORN'S INC., Chicago, Ill. Filed Oct. 21, 1922.

Phil-Pelt

Particular description of goods.—Fur Coats, Fur Scarfs, Fur Muffs, Fur Chokers, and Fur Dolmans.
Claims use since Jan. 1, 1922.

Ser. No. 171,102. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PORZELLANFABRIK PH. ROSENTHAL & Co. A. G., Berlin, Germany. Filed Oct. 23, 1922.

Rosenthal

Trade-mark consists of the word "Rosenthal" written in two halves ("Rosen" to the left, "thal" to the right) with a gap between them, and two crossed sticks in this gap with a crown intermediate the upper ends of the sticks, and a flourish extending from the letter "l" below the word. The trade-mark is herewith claimed as applicant's own mark.
Particular description of goods.—China.
Claims use since Feb. 23, 1907.

Ser. No. 171,151. (CLASS 39. CLOTHING.) HARRY AND CHARLES COHEN, doing business as Biltrite Collar Co., New York, N. Y. Filed Oct. 25, 1922.

WEBTEX

Particular description of goods.—Collars.
Claims use since July 1, 1922.

Ser. No. 171,186. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THARINGER MACARONI COMPANY, Milwaukee, Wis. Filed Oct. 25, 1922.

EGG SHELLS

Particular description of goods.—Alimentary Paste Products.
Claims use since July 1, 1922.

Serial No. 171,189. (CLASS 39. CLOTHING.) S. & B. SUMMER CLOTHING CO., New York, N. Y. Filed Oct. 25, 1922.

SEA BREEZE

Particular description of goods.—Men's and Boys' Suits, Overcoats, Vests, Trousers.
Claims use since May, 1921.

Ser. No. 171,218. (CLASS 39. CLOTHING.) IDOLITE HOSIERY MILLS, INC., New York, N. Y. Filed Oct. 26, 1922.

Idolite

Particular description of goods.—Hosiery.
Claims use since about Sept. 16, 1922.

Ser. No. 171,223. (CLASS 39. CLOTHING.) LASKIN BROTHERS, Philadelphia, Pa. Filed Oct. 26, 1922.

MOON-YEEN

Particular description of goods.—Camisoles, Bloomers, Chemises, Gowns, Combinations, Pantalets, Underskirts, Vests, Drawers, Kimonos, Negligees, Bed Sacks, Combing Jackets, Pyjamas, and Costume Slips.
Claims use since about Oct. 17, 1922.

Ser. No. 171,224. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MAX LEVITT, doing business as Fashion Model Co., Brooklyn, N. Y. Filed Oct. 26, 1922.



No claim made to the exclusive use of the words "Importers of French Models" apart from the mark as shown in the drawing.
Particular description of goods.—Clothing Models and Patterns.
Claims use since Jan. 9, 1921.

Ser. No. 171,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAIYO TRADING COMPANY, INC., New York, N. Y. Filed Oct. 26, 1922.

TASHKA

Particular description of goods.—Crab Meat.
Claims use since about June 1, 1922.

Ser. No. 171,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGS COUNTY PACKING CO., Armona, Calif. Filed Oct. 28, 1922.

KINGS FANCY

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since 1916.

Ser. No. 171,371. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELLEN W. MAFFITT, doing business as University Pickle Company, St. Louis, Mo. Filed Oct. 30, 1922.

UNIVERSITY PICKLE

No claim is made to the use of the words "Pickle," "Sweet Cucumber," "#221 N. Grand Ave. St. Louis, Mo.," and "Trade Mark Registered in U. S. Patent Office" apart from the mark in the drawing.

Particular description of goods.—Pickles.

Claims use since May 29, 1922.

Ser. No. 171,395. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM DANIEL WIEGAND, doing business as Bureau of Formulas, Baltimore, Md. Filed Oct. 30, 1922.

Kwik-Deth

Particular description of goods.—Insecticide, Deodorant, and Disinfectant.

Claims use since June 1, 1922.

Ser. No. 171,724. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BYRNE, KINGSTON & CO., Kokomo, Ind. Filed Nov. 8, 1922.

"OIL-VAC"

Particular description of goods.—Vacuum Feed Systems for Motor Vehicles.

Claims use since Apr. 1, 1922.

Ser. No. 171,903. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITRUS SALES CORPORATION, Tampa, Fla. Filed Nov. 13, 1922.

FLORISWEET

Particular description of goods.—Fresh Citrous Fruits.

Claims use since Sept. 30, 1922.

Ser. No. 171,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C & T IMPORTING COMPANY, San Francisco, Calif. Filed Nov. 14, 1922.



Particular description of goods.—Tea.

Claims use since Oct. 4, 1922.

Ser. No. 172,012. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HERBERT PILGER, Plainview, Nebr. Filed Nov. 14, 1922.

FLY-CHASER

Particular description of goods.—Fly-Chasing Attachments in the Form of Rotary Fans to be Attached to Screen Doors.

Claims use since Oct. 1, 1922.

Ser. No. 172,032. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) CZECHOSLOVAK ART SHOP INC., Newark, N. J., and New York, N. Y. Filed Nov. 15, 1922.



Particular description of goods.—Chinaware.

Claims use since June 15, 1921.

Ser. No. 172,043. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 15, 1922.

FREEZE-EM

No claim is made to the words "Reg. U. S. Pat. Off." apart from the mark as shown.

Particular description of goods.—Chemical Preparation for Use in Deodorizing Ice Boxes, Butchers' Tools, Refrigerators, and Meat Repositories.

Claims use since 1896.

Ser. No. 172,308. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. LLOYD WOOD, LIMITED, Toronto, Ontario, Canada. Filed Nov. 20, 1922.

PINI STRINE

Particular description of goods.—Antiseptic Solution, Mouth Wash, Tooth Paste, Talcum Powder, and Toilet Cream.

Claims use since June 1, 1922.

Ser. No. 172,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK H. FROMM, doing business as F. H. Fromm & Co., Philadelphia, Pa. Filed Nov. 21, 1922.

MONTE CRISTO

Particular description of goods.—Canned Fish.

Claims use since October, 1922.

Ser. No. 172,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WING LEE WAI COMPANY, San Francisco, Calif. Filed Nov. 21, 1922.

五加皮

The Chinese characters constituting the trade-mark mean "Five Different Skins," and the translation is "Ng Ka Py."

Particular description of goods.—Medicinal Herb Preparation Used as a General Tonic.

Claims use since June 1, 1922.

Ser. No. 172,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y. Filed Nov. 22, 1922.

AN EXTERNAL
ANTISEPTIC APPLICATION
PARTICULARLY FOR MOSQUITOES

Skeetolatum

DIRECTIONS
APPLY TO PARTS EXPOSED TO THE BITING INSECTS
REPEAT AS OFTEN AS NEEDED

THE MENTHOLATUM CO.
MANUFACTURERS
BUFFALO, N.Y.
WICHITA, KAN.

No claim made to the wording shown on the drawing with the exception of the words "Skeetolatum" and "The Mentholatum Co."

Particular description of goods.—Preparation for Repelling Mosquitoes.

Claims use since Nov. 8, 1922.

Ser. No. 172,464. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRADLEY-WISE PAINT COMPANY, Los Angeles, Calif. Filed Nov. 24, 1922.

LA PANTERA

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Varnishes, Paint Enamels, and Dry Colors.

Claims use since Nov. 1, 1921.

Ser. No. 172,493. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS SIEGBERT & BRO., New York, N. Y. Filed Nov. 24, 1922.

PERFECTION

Particular description of goods.—Cotton Piece Goods.
Claims use since 1919.

Ser. No. 172,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNION NEWS COMPANY, New York, N. Y. Filed Nov. 24, 1922.



Particular description of goods.—Candies and Assorted Chocolates.
Claims use since Sept. 27, 1921.

Ser. No. 172,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK G. SHATTUCK COMPANY, doing business as Schrafft's, New York, N. Y. Filed Nov. 25, 1922.

D'OR ELEGANTE

Particular description of goods.—Candy.
Claims use since Nov. 10, 1922.

Ser. No. 172,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WING LEE WAI COMPANY, San Francisco, Calif. Filed Nov. 25, 1922.



The Chinese words "Ng Ka I'y" appearing on the drawing mean "Five Different Skins."
Particular description of goods.—Medicinal Herb Preparation Used as a General Tonic.
Claims use since June 1, 1922.

Ser. No. 172,570. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WING LEE WAI COMPANY, San Francisco, Calif. Filed Nov. 25, 1922.



The Chinese characters appearing on the drawing mean "Five Different Skins," and the translation is "Ng Ka Py." No claim is made to the words "Herb," "Merchants," "Tientsin & Hong Kong," nor to any of the Chinese characters apart from the mark shown.
Particular description of goods.—Medicinal Herb Preparation Used as a General Tonic.
Claims use since June 1, 1922.

Ser. No. 172,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROUD'S PORTOLIVE CO., Seattle, Wash., and Los Angeles, Calif. Filed Nov. 27, 1922.

PORTOLIVE

Particular description of goods.—Tonic for Stimulating the Appetite, Aiding Digestion, Enriching the Blood, and Increasing the Weight and Vitality.
Claims use since Oct. 1, 1917.

Ser. No. 172,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLARD & KEENE CO., Eustis, Fla. Filed Nov. 29, 1922.



Particular description of goods.—Fresh Citrous Fruits.
Claims use since Oct. 1, 1922.

Ser. No. 172,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KARASIK, HOLLEB & CO., Chicago, Ill. Filed Dec. 4, 1922.

ROOSEVELT



The portrait shown in the drawing is that of Colonel Roosevelt, deceased.
Particular description of goods.—Canned Vegetables—Namely, Tomatoes, Corn, and Peas; Canned Fruits, Canned Fish, Fruit and Vegetable Preserves, Spices, and Dried Fruits.
Claims use since Oct. 1, 1920.

Ser. No. 172,992. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Dec. 6, 1922.



No exclusive right is claimed to the words "Improved," or "Pickle," or "Brand," or "New Process for Curing Meat," or "Invented and Made Only by," or "Mfg. Chemists," or "Chicago, U. S. A.," or "Trade-Mark Reg. U. S. Pat. Off.," or "Patented in the U. S. and Canada" apart from the mark as shown.
Particular description of goods.—Chemical Preparations Used in the Curing of Meat.
Claims use since 1905.

Ser. No. 173,024. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Dec. 7, 1922.



Particular description of goods.—Combs Made of Hard Rubber for Dressing, Ornamenting, and Cleaning the Hair.
Claims use since Dec. 1, 1922.

Ser. No. 173,045. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Dec. 7, 1922.

$1000.00 GUARANTEED

ZANZIBAR BRAND FLY CHASER

REG. U. S. PAT. OFF.

The words "1000.00 Guaranteed," "Zanzibar Brand," and "Reg. U. S. Pat. Off." are hereby disclaimed apart from the mark as shown.

Particular description of goods.—Preparation for Repelling Flies from Cattle, Horses, Dogs, and Other Animals.

Claims use since November, 1921.

Ser. No. 173,046. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Dec. 7, 1922.

Yolk-Em

Particular description of goods.—Coloring for Food and Confectionery.

Claims use since 1910.

Ser. No. 173,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YORKSHIRE DYEWARE & CHEMICAL COMPANY, LTD., Leeds, England. Filed Dec. 7, 1922.

HEMASOL

Particular description of goods.—Dry Powdered Extract of Logwood, Being a Vegetable Dye.

Claims use since July 18, 1914.

Ser. No. 173,099. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. C. LYSLE MILLING COMPANY, Leavenworth, Kans. Filed Dec. 8, 1922.

QUEEN OF KANSAS

Particular description of goods.—Wheat Flour.

Claims use since 1882.

Ser. No. 173,110. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TITANIUM PIGMENT COMPANY, INC., Niagara Falls, N. Y. Filed Dec. 8, 1922.

TITANOX

Trade-mark consists of the word "Titanox." Said word mark "Titanox" is so shown as to be plainly legible as such.

Particular description of goods.—Soap, Glass Polish, Metal Polish, and Abrader Preparations.

Claims use since Apr. 25, 1921.

Ser. No. 173,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID I. KANTER, Chicago, Ill. Filed Dec. 11, 1922.

KOR-NOF

D. I. K.

CORN REMEDY

The words "Corn Remedy" are hereby disclaimed.

Particular description of goods.—Corn Remedy.

Claims use since May 1, 1922.

Ser. No. 173,247. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SAMUEL ROBERT, doing business as Konroe Merchants, New York, N. Y. Filed Dec. 12, 1922.

KR MER

Particular description of goods.—Dolls and Toy Favors.

Claims use since Jan. 20, 1921.

Ser. No. 173,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARA R. GLASSMIRE, doing business as Wm. Glassmire's, Philadelphia, Pa. Filed Dec. 13, 1922. Under ten-year proviso.

"NONE SUCH"

Particular description of goods.—Hair Lotions and Skin Creams.

Claims use since Jan. 1, 1893.

Ser. No. 173,325. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOUKE FUR COMPANY, St. Louis, Mo. Filed Dec. 14, 1922.

NOXENT

Particular description of goods.—Chemical Deodorizing Preparation.

Claims use since Oct. 10, 1922.

Ser. No. 173,390. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ALLER BROTHERS, Chicago, Ill. Filed Dec. 16, 1922.

Lady Allaire

Particular description of goods.—Pins and Hairpins Not of Precious Metal, Safety Pins, Elastics, and Hair Nets.

Claims use since March, 1922.

Ser. No. 173,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. JACKSON, Palmetto, Fla. Filed Dec. 16, 1922.

LONGEVO

Particular description of goods.—Waterproofing Compound for Use on Shingle Roofs and Wood Shingles.

Claims use since Nov. 1, 1920.

Ser. No. 173,433. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MEDICRAFT COMPANY, Cleveland, Ohio. Filed Dec. 16, 1922.

QUALITY FIRST

Medicraft

No exclusive right is claimed to the words "Quality First" apart from the mark as shown in the drawing.

Particular description of goods.—Facial Creams.

Claims use since on or about Sept. 9, 1922.

Ser. No. 173,446. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE SMITH & EGGE MANF'G. CO., Bridgeport, Conn. Filed Dec. 16, 1922. Under ten-year proviso.

Red Metal

Particular description of goods.—Sheet-Metal Chains.

Claims use since 1884.

Ser. No. 173,483. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRANT WATKINS CO., INC., Boston, Mass. Filed Dec. 18, 1922.

D'Arblay

Particular description of goods.—Cleansing and Finishing Cream, Toilet Waters, Perfumes, Sachet Powder, Face Powder, Talcum Powder, Rouge Compact.

Claims use since 1912.

Ser. No. 173,532. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP RAYMOND, Boston, Mass. Filed Dec. 18, 1922.

RAYMO

Particular description of goods.—Medicine Used in the Treatment of Asthma, Bronchitis, Tuberculosis, and Whooping Cough.
Claims use since Dec. 1, 1921.

Ser. No. 173,601. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOMECRAFT-IMPORSON CO., Utica, N. Y. Filed Dec. 20, 1922.

MORNING GLORY

Particular description of goods.—Fishing Flies and Artificial Bait.
Claims use since Oct. 1, 1922.

Ser. No. 173,607. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MELLO COMPANY, Laporte, Ind. Filed Dec. 20, 1922.

Mello

Particular description of goods.—Washing Compound.
Claims use since 1913.

Ser. No. 173,703. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ESMOND MILLS, Esmond, Smithfield, R. I. Filed Dec. 22, 1922.

Jacquemme

Particular description of goods.—Cotton Blankets and Cotton Blanket Piece Goods.
Claims use since Dec. 4, 1922.

Ser. No. 173,821. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT R. FIEBER, West Allis, Wis., assignor to Libby Chemical Company, West Allis, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1922.

Kolekaps

Particular description of goods.—Medicated Capsules for Colds, La Grippe, Headache, Malaria, Etc.
Claims use since Dec. 21, 1922.

Ser. No. 173,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMILE FEUILLIE, Paris, France. Filed Dec. 26, 1922.



Particular description of goods.—Culinary Salt.
Claims use since Sept. 28, 1922.

Ser. No. 173,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE J. MUELLER, West Allis, Wis., assignor to Libby Chemical Company, West Allis, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1922.

Painockers

Particular description of goods.—Medicated Tablets for Headaches, Neuralgia, and Minor Pains.
Claims use since Dec. 21, 1922.

Ser. No. 173,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH BROTHERS, Inc., Poughkeepsie, N. Y. Filed Dec. 29, 1922.



Particular description of goods.—Cough Drops, a Semi-medicinal Candy Confection.
Claims use since Jan. 1, 1877.

Ser. No. 173,993. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BONNEY FORGE & TOOL WORKS, Philadelphia and Allentown, Pa., Chicago, Ill., and New York, N. Y. Filed Dec. 30, 1922.

'CV'

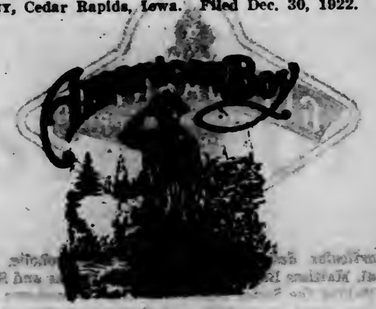
Particular description of goods.—Tappet Wrenches for Tightening and Loosening Nuts, Bolts, and Cap Screws.
Claims use since about Nov. 4, 1922.

Ser. No. 174,022. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEAL MANUFACTURING CO., Cleveland, Ohio. Filed Dec. 30, 1922.

Kream Fluffy

Particular description of goods.—Pastry Flour.
Claims use since Oct. 25, 1922.

Ser. No. 174,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICH BROTHERS CEREAL COMPANY, Cedar Rapids, Iowa. Filed Dec. 30, 1922.



Particular description of goods.—Rolled Oats.
Claims use since July 15, 1922.

Ser. No. 174,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. E. ZUERCHER & CO., Chicago, Ill. Filed Dec. 30, 1922.



Particular description of goods.—Cheese.
Claims use since Nov. 6, 1922.

Ser. No. 174,106. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.



Particular description of goods.—Poultry Feed.
Claims use since 1913.

Ser. No. 174,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.



Particular description of goods.—Wheat Flour.
Claims use since 1917.

Ser. No. 174,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORIN DE ZON, Detroit, Mich. Filed Jan. 3, 1923.

SEMINOLE
Indian

The trade-mark sought to be registered consists of the words "Seminole Indian."
Particular description of goods.—Preparation for the Treatment of Hair and Scalp.
Claims use since Jan. 1, 1916.

Ser. No. 174,191. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALLEN HYDROSTATIC PUMP SYNDICATE LTD., Westminster, London, England. Filed Jan. 5, 1923.

HYDRAUTOMAT

Particular description of goods.—Pumping Apparatus Utilizing Hydrostatic Pressure for Raising Liquids.
Claims use since Mar. 31, 1922.

Ser. No. 174,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. M. HALL & COMPANY, San Francisco, Calif. Filed Jan. 6, 1923.



Particular description of goods.—Canned Fruits, Canned Vegetables.
Claims use since Nov. 15, 1922.

Ser. No. 174,259. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRY PICKUP, doing business as Harpic Manufacturing Co., London, England. Filed Jan. 6, 1923.

HARPIC

Particular description of goods.—Lavatory Cleanser.
Claims use since Nov. 23, 1920.

Ser. No. 174,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SMILEY COMPANY, Des Moines, Iowa. Filed Jan. 8, 1923.



The portrait appearing on the drawing is fanciful.
Particular description of goods.—Medicine Used in the Treatment of Diphtheria.
Claims use since Oct. 4, 1922.

Ser. No. 174,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLOMIA (1922) LIMITED, London, England. Filed Jan. 8, 1923.

SOLOMIA

Particular description of goods.—Insecticide.
Claims use since Sept. 4, 1920.

Ser. No. 174,493. (CLASS 38. PRINTS AND PUBLICATIONS.) SKINNER MACHINERY COMPANY, Dunedin, Fla. Filed Jan. 11, 1923.

Skinner Packing House News

Particular description of goods.—Publication Issued Monthly.
Claims use since January, 1922.

Ser. No. 174,495. (CLASS 45. BEVERAGES, NONALCOHOLIC.) WILLIAM E. TANNER, Brunswick, Me. Filed Jan. 11, 1923.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same, Lemon and Lime, Strawberry, Ginger Ale, Root Beer, Still and Carbonated Waters, and Other Carbonated Beverages.
Claims use since Nov. 1, 1921.

Ser. No. 174,505. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PHILIP S. BERN, doing business as Philsbern Products Co., New York, N. Y. Filed Jan. 12, 1923.



Particular description of goods.—Furniture and Automobile Polishes with Incidental Properties as Metal Polishes.
Claims use since Nov. 1, 1922.

Ser. No. 174,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARBO-SUL CORPORATION, New York, N. Y. Filed Jan. 15, 1923.

CARBO-SUL

Particular description of goods.—Insecticides.
Claims use since May, 1916.

Ser. No. 174,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) D. PEPPLE AND CO., Bainbridge, Ohio. Filed Jan. 16, 1923.

TRU-TONE

Particular description of goods.—Face Lotion.
Claims use since Sept. 15, 1922.

Ser. No. 174,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLUE BIRD INC. PERFUMERS, New York, N. Y. Filed Jan. 17, 1923.

STAYPUT

Particular description of goods.—Hair Preparations, and Especially for Hair Preparations Used for the Purpose of Keeping the Hair in Place and in Curling the Hair and Keeping It in Curl.
Claims use since about November, 1919.

Ser. No. 174,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL P. DAVIS, doing business as Ucoline Products Co., Cincinnati, Ohio. Filed Jan. 17, 1923.

Ucoline

Particular description of goods.—Hair Tonic.
Claims use since Nov. 8, 1922.

Ser. No. 174,732. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GOLDENOLA TALKING MACHINE CO., Los Angeles, Calif. Filed Jan. 18, 1923.

GOLDENOLA

Particular description of goods.—Phonographs.
Claims use since January, 1922.

Ser. No. 174,770. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN T. GAFFEY, doing business as Mah Juck Mfg. Co., San Pedro, Calif. Filed Jan. 19, 1923.

DRAGON RACKS



No claim is made to the word "Racks" apart from the mark as shown on the drawing.
Particular description of goods.—Racks Used in Connection with the Game Mah Juck.
Claims use since Dec. 13, 1922.

Ser. No. 174,860. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. L. REED, doing business as Clifton Laboratories, Cincinnati, Ohio. Filed Jan. 20, 1923.

CUDENTOS

Particular description of goods.—Dentifrice and Prophylactic Paste.
Claims use since Dec. 19, 1922.

Ser. No. 174,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAFAEL MIRANDA, doing business as Mira Chemical Co., New Bedford, Mass. Filed Jan. 22, 1923.

MIRA

Particular description of goods.—Preparation for Cleansing the Scalp and Stimulating the Growth of the Hair.
Claims use since June, 1922.

Ser. No. 174,928. (CLASS 37. PAPER AND STATIONERY.) M. & H. SILVER, INCORPORATED, Norfolk, Va. Filed Jan. 9, 1923.

SILVER TIP

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Dec. 1, 1922.

Ser. No. 174,958. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE O. W. DEAN COMPANY, Benton Harbor, Mich. Filed Jan. 23, 1923.

Re-Vi-Vo

Particular description of goods.—Medicine for Use in the Treatment of Ailments of the Liver, Stomach, and Bowels and as a Blood Purifier.
Claims use since Aug. 1, 1922.

Ser. No. 174,976. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POSTUM CEREAL COMPANY, INCORPORATED, New York, N. Y., and Battle Creek, Mich. Filed Jan. 23, 1923.

Now You'll like Bran

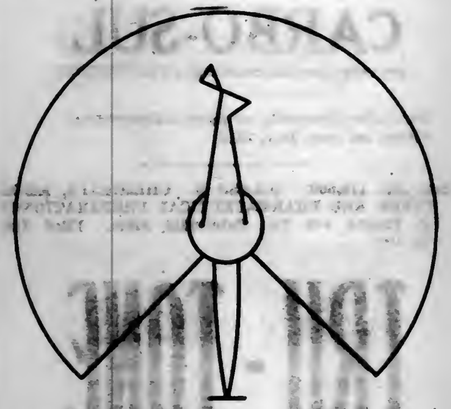
No claim being made to any right of registration under the statute of the word "Bran" except in connection with the mark as shown, applicant reserving, however, all common-law right to the mark as a whole.
Particular description of goods.—Cereal Breakfast Foods.
Claims use since Jan. 9, 1923.

Ser. No. 174,984. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATHAN S. ZUCKER, doing business as The Utasal Company, New York, N. Y., and Salt Lake City, Utah. Filed Jan. 23, 1923.

UTASAL

Particular description of goods.—Medicated Bath Preparation.
Claims use since November, 1922.

Ser. No. 175,024. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PFAU'S AMERICAN INSTRUMENTS CO., New York, N. Y. Filed Jan. 24, 1923.



Particular description of goods.—Medical and Surgical Appliances, Especially Adapted for the Treatment of Diseases of the Eye, Ear, Nose, and Throat and for Operations Thereon and for Anatomical Specimens and Models.
Claims use since Nov. 15, 1922.

Ser. No. 175,093. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) METRO PICTURES CORPORATION, New York, N. Y. Filed Jan. 25, 1923.



METRO PICTURES CORPORATION

Applicant disclaims the exclusive right to the use of the word "Pictures" apart from the mark as shown.
Particular description of goods.—Motion-Picture Films.
Claims use since July, 1916.

Ser. No. 175,249. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ERNEST V. KIRBY, doing business as Mountain Dew Co., Urbana, Ill. Filed Jan. 29, 1923.

MOUNTAIN DEW

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirups Therefor.
Claims use since April, 1922.

Ser. No. 175,338. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Jan. 31, 1923.



No claim is made to the word "Doll" apart from the mark shown. The picture is fanciful.
Particular description of goods.—Dolls.
Claims use since Jan. 19, 1923.

Ser. No. 175,349. (CLASS 45. BEVERAGES, NONALCOHOLIC.) M. L. EISENBERG, doing business as Capital City Bottling Company, Montgomery, Ala. Filed Jan. 31, 1923.

GRAPE VINE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Feb. 1, 1914.

Ser. No. 175,350. (CLASS 45. BEVERAGES, NONALCOHOLIC.) M. L. EISENBERG, doing business as Capital City Bottling Company, Montgomery, Ala. Filed Jan. 31, 1923.

CAPITAL ROCK

Particular description of goods.—Ginger Ale.
Claims use since Feb. 1, 1914.

Ser. No. 175,351. (CLASS 45. BEVERAGES, NONALCOHOLIC.) M. L. EISENBERG, doing business as Capital City Bottling Company, Montgomery, Ala. Filed Jan. 31, 1923.

CAPITAL BRAND

The word "Brand" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Strawberry, Lemon, Cherry, Cream, Chocolate, Peach, and Orange Flavored Maltless Soft Drinks.
Claims use since Feb. 1, 1914.

Ser. No. 175,363. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 31, 1923.

NEULITE

Particular description of goods.—Ophthalmic Lenses.
Claims use since Jan. 19, 1923.

Ser. No. 175,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. A. SAKELE, doing business as Harem Perfume Co., New York, N. Y. Filed Jan. 31, 1923.

SALOME

Particular description of goods.—Perfumes.
Claims use since Jan. 27, 1923.

Ser. No. 175,414. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Feb. 1, 1923.

STANOLIND

Particular description of goods.—Petrolatum.
Claims use since Mar. 18, 1913.

Ser. No. 175,421. (CLASS 37. PAPER AND STATIONERY.) BANKEE CORPORATION OF AMERICA, Los Angeles, Calif. Filed Feb. 2, 1923.



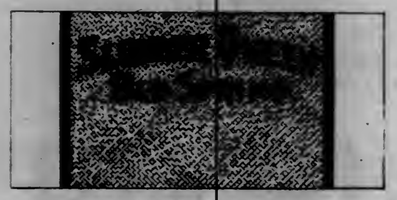
Particular description of goods.—Trading Stamps and Coupons, Booklets in Which Trading Stamps and Coupons May Be Pasted, and Blank Contracts.
Claims use since Nov. 1, 1921.

Ser. No. 175,465. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLEVELAND WIRE SPRING COMPANY, doing business as Ohio Spring Bed Company, Cleveland, Ohio. Filed Feb. 3, 1923.



As used the words "Hercules Bed Springs" are preferably printed in red upon a yellow background. The words "De Luxe," "Real Restful Rest," and "Bed Springs" being descriptive are disclaimed apart from the mark shown.
Particular description of goods.—Bed Springs.
Claims use since about May 22, 1914.

Ser. No. 175,466. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLEVELAND WIRE SPRING COMPANY, doing business as Ohio Spring Bed Company, Cleveland, Ohio. Filed Feb. 3, 1923.



The words "Bed Spring" are disclaimed apart from the mark as shown. As used the mark is partly printed in color, preferably in yellow or orange.
Particular description of goods.—Bed Springs.
Claims use since about July 26, 1917.

Ser. No. 175,493. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Feb. 3, 1923.

CRÈME FRAMBOISE

No claim made to the word "Creme" apart from the mark shown in the drawing.
Particular description of goods.—Toilet Creams.
Claims use since prior to 1907.

Ser. No. 175,515. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PARNIBECK CHOCOLATE CO., INC., New York, N. Y. Filed Feb. 3, 1923.



Particular description of goods.—Chocolate Candies Known in the Trade as Chocolates.
Claims use since Jan. 1, 1918.

Ser. No. 175,524. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE SCHOEPFER, Paris, France. Filed Feb. 3, 1923.

DIXOR

Particular description of goods.—Perfumes, Extracts, Toilet Water, Rice Powders, Tooth Powder, Toilet Cream, and Face Lotions.
Claims use since December, 1922.

Ser. No. 175,531. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. A. SWIFT, Selma, Ala. Filed Feb. 3, 1923.

CIDOSITONE

Particular description of goods.—Digestant Compound.
Claims use since Nov. 1, 1922.

Ser. No. 175,540. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 5, 1923.

A.W.P.CO.

Particular description of goods.—Writing and Printing Paper and Mailing Envelopes.
Claims use since Jan. 1, 1904.

Ser. No. 175,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. S. DUFFY, doing business as The F. S. Duffy Medicine Co., New Bern, N. C. Filed Feb. 5, 1923.

"IRO-QUIN"

Particular description of goods.—Antimalarial Tablet.
Claims use since 1902.

Ser. No. 175,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KEEP KOMB CO., Atlanta, Ga. Filed Feb. 5, 1923.

Keep Komb

Particular description of goods.—Preparation for Dressing the Hair.
Claims use since Nov. 6, 1922.

Ser. No. 175,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, San Francisco, Calif. Filed Feb. 5, 1923.



Particular description of goods.—Canned and Bottled Fruits, Jams, Jellies, and Olives.
Claims use since Aug. 5, 1921.

Ser. No. 175,585. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass. Filed Feb. 5, 1923.



No claim is made to the representation of the paintbrush appearing on the drawing except in connection with the other features of the mark.
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids.
Claims use since on or about Feb. 1, 1922.

Ser. No. 175,588. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBERT WOLCOTT, doing business as Judee Laboratories, Red Bank, N. J. Filed Feb. 5, 1923.

Judee

Particular description of goods.—Medicinal Preparation to be Used as a Prophylactic, Antiseptic, and Germicide.
Claims use since about Jan. 1, 1920.

Ser. No. 175,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. BARISCILLO, doing business as Tonsitol Laboratories, Asbury Park, N. J. Filed Feb. 7, 1923.

TONSITOL

Particular description of goods.—Preparation in Liquid Form for the Treatment of Tonsilitis, Hoarseness, Quinsy, Loss of Voice, and Inflammatory Conditions of the Throat.
Claims use since Dec. 1, 1922.

Ser. No. 175,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COCKNUT CORPORATION, Baltimore, Md. Filed Feb. 7, 1923.

KUKOL

Particular description of goods.—Vegetable Lard Substitute.
Claims use since October, 1922.

Ser. No. 175,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COCKNUT CORPORATION, Baltimore, Md. Filed Feb. 7, 1923.

Salol

Particular description of goods.—Cottonseed Oil.
Claims use since October, 1922.

Ser. No. 175,659. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis. Filed Feb. 7, 1923.

R-S-V-P

Particular description of goods.—Candy.
Claims use since Dec. 15, 1922.

Ser. No. 175,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE CO. INC., Chicago, Ill. Filed Feb. 7, 1923.

CAT'S MEOW

Particular description of goods.— Candy.
Claims use since Aug. 1, 1922.

Ser. No. 175,702. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 8, 1923.

Meltose

Particular description of goods.—Corn Sugar.
Claims use since Feb. 1, 1893.

Ser. No. 175,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX PINKUS, doing business as John Price & Co., Philadelphia, Pa. Filed Feb. 8, 1923.

POPULAR



Particular description of goods.—Canned Salmon.
Claims use since Mar. 25, 1897.

Ser. No. 175,764. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Feb. 9, 1923.

Lamari

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 9, 1923.

Ser. No. 175,766. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Feb. 9, 1923.

Kurlam

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 12, 1923.

Ser. No. 175,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 10, 1923.

PARAMELS

Particular description of goods.—Laxative.
Claims use since Feb. 1, 1914.

Ser. No. 175,861. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. GOELLER'S SONS, Circleville, Ohio. Filed Feb. 10, 1923.

IRON CROWN

Particular description of goods.—Brooms.
Claims use since 1917.

Ser. No. 175,877. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLIFFORD C. MARSHALL, Vincennes, Ind. Filed Feb. 10, 1923.

HARE RASE

Particular description of goods.—Medicinal Ointment for the Treatment of the Scalp and Hair.
Claims use since Nov. 25, 1922.

Ser. No. 175,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO CONFECTION COMPANY, Cleveland, Ohio. Filed Feb. 10, 1923.

GOULASH

Particular description of goods.—Candy.
Claims use since Dec. 1, 1922.

Ser. No. 175,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP SCHAUPNER, doing business as The Sanas Company, Inc., Detroit Mich. Filed Feb. 10 1923.

Bal-Mane

Particular description of goods.—Laxative Powders.
Claims use since Apr. 25 1922.

Ser. No. 175,909. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN CASH REGISTER CO., Saginaw, Mich. Filed Feb. 12, 1923.



The lining of drawing expresses the color yellow.
Particular description of goods.—Cash Registers.
Claims use since Nov. 1, 1922.

Ser. No. 175,925. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FREDERICKSEN COMPANY, Saginaw, Mich. Filed Feb. 12, 1923.

SABECO

Particular description of goods.—Bearing Metal, Packing Metal, Brass Castings, and Bronze Castings.
Claims use since Jan. 18, 1923.

Ser. No. 175,944. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) O. W. RICHARDSON & Co., Chicago, Ill. Filed Feb. 12, 1923. Under ten-year proviso.

Richardson

Particular description of goods.—Textile Rugs and Carpets.
Claims use since August, 1886.

Ser. No. 175,945. (CLASS 20. LINOLEUM AND OILED CLOTH.) O. W. RICHARDSON & CO., Chicago, Ill. Filed Feb. 12, 1923. Under ten-year proviso.

Richardson

Particular description of goods.—Linoleum.
Claims use since August, 1886.

Ser. No. 175,952. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.



Particular description of goods.—Metals—Namely, Brass, Gilding, Copper, Oreide, Puro Nickel, Cupro Nickel, Bronze Known as Phosphor Bronze, Commercial Bronze, and Seymour Bronze.
Claims use since Jan. 10, 1923.

Ser. No. 175,954. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.



Particular description of goods.—Metal Alloys of Copper, Zinc, and Nickel in the Form of Sheet Metal in Rolls, Sheets, and Strips; Wire in Coils; Blanks, Ingots, and Rods in Random and Exact Lengths.
Claims use since Jan. 10, 1923.

Ser. No. 176,140. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 16, 1923.



No claim is made to the representation of a powder puff apart from the mark shown on the drawing. The female head shown on the mark is merely fanciful.
Particular description of goods.—Powder Puffs.
Claims use since Jan. 30, 1922.

Ser. No. 176,145. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 16, 1923.

WECO Product

No claim made for the word "Product" apart from the mark shown.
Particular description of goods.—Powder Puffs, Toothbrushes, Hairbrushes, Hand Brushes, and Clothes Brushes.
Claims use since Jan. 30, 1922, on powder puffs, and on toothbrushes, hair brushes, hand brushes, and clothes brushes since July 15, 1921.

Ser. No. 176,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME ORCHARD CO., INC., White Salmon, Wash. Filed Feb. 17, 1923.

Rainkist

Particular description of goods.—Fresh Apples.
Claims use since Oct. 15, 1922.

Ser. No. 176,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDREWS BROTHERS COMPANY, INC., Pittsburgh, Pa. Filed Feb. 17, 1923.

SHEIK

Particular description of goods.—Fresh Citrous Fruits and Fresh Vegetables.
Claims use since May 3, 1922.

Ser. No. 176,160. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BROWNSTEIN-LOUIS CO., Los Angeles, Calif. Filed Feb. 17, 1923.

Beverly

Particular description of goods.—Textile Fabrics of Cotton, Wool, Silk, and Mixtures of Same in the Piece.
Claims use since July, 1922.

Ser. No. 176,195. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GEORGE E. LEFEBVRE, Cleveland, Ohio. Filed Feb. 17, 1923.

G. E. Lefebvre

The trade-mark is the autograph of the applicant, George E. Lefebvre.
Particular description of goods.—Saxophone and Clarinet Reeds.
Claims use since about Jan. 12, 1923.

Ser. No. 176,324. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALBERT B. CHANCE, doing business as Chance Company, Centralia, Mo. Filed Feb. 20, 1923.

THIMBLEYE

Trade-mark "Thimbleye."
Particular description of goods.—Anchor Rods.
Claims use since Sept. 15, 1921.

Ser. No. 176,395. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BURTON E. BAXTER, doing business as B. E. Baxter Co., Whitney Point, N. Y. Filed Feb. 21, 1923.



The trade-mark consists of the figure of an oak leaf in green, on the face of which appears the word "Oakit," the letters being in red with an outer and inner border line of yellow.
Particular description of goods.—Graining Liquid.
Claims use since Nov. 1, 1922.

Ser. No. 176,435. (CLASS 25. LOCKS AND SAFES.) ALONZO H. ADAMS, doing business as Exhaust Lock Company, Indianapolis, Ind. Filed Feb. 23, 1923.

EXLO

Particular description of goods.—Steering-Post Control and Exhaust Lock.
Claims use since Aug. 25, 1922.

Ser. No. 176,444. (CLASS 45. BEVERAGES, NONALCOHOLIC.) WILLIAM D. BOST, Chicago, Ill. Filed Feb. 23, 1923.

Krinkly

Particular description of goods.—Nonalcoholic, Maltless, Beverages Sold as Soft Drinks and Sirups, Compounds, and Concentrates for Making the Same.
Claims use since Dec. 31, 1922.

Ser. No. 176,452. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) COMET'S CALIFORNIA ORANGE DRINK CO., Los Angeles, Calif. Filed Feb. 23, 1923.

COMET'S

Particular description of goods.—Nonalcoholic, Maltless Orange Drink.
Claims use since July 7, 1917.

Ser. No. 176,531. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Atlantic Steel Company, Atlanta, Ga. Filed Feb. 24, 1923.

DIXISTEEL

Particular description of goods.—Wire Fences.
Claims use since Feb. 12, 1923.

Ser. No. 176,639. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TED MORTON & CO. INC., New York, N. Y. Filed Feb. 26, 1923.

"O'SEE MAKE-UP"

Applicant makes no claim herein for registration of the words "Make-Up" except in the association shown in the drawing, no common-law rights, however, being waived.
Particular description of goods.—Stuffed Figure Toys and Ornamented Surfaces to be Formed into Stuffed Figure Toys.
Claims use since Nov. 11, 1922.

Ser. No. 176,740. (CLASS 11. INKS AND INKING MATERIALS.) JAENECKE-AULT COMPANY, Newark, N. J. Filed Feb. 28, 1923.

ART-TONE

Particular description of goods.—Printing Inks.
Claims use since about Jan. 1, 1923.

Ser. No. 176,741. (CLASS 11. INKS AND INKING MATERIALS.) JAENECKE-AULT COMPANY, Newark, N. J. Filed Feb. 28, 1923.

ROTO-TONE

Particular description of goods.—Printing Inks.
Claims use since about January, 1923.

Ser. No. 176,784. (CLASS 16. PAINTS, AND PAINTERS' MATERIALS.) THE BLACKBURN VARNISH CO., Cincinnati, Ohio. Filed Mar. 1, 1923.

BEE-VEE

Particular description of goods.—Varnish and Varnish Stains.
Claims use since Feb. 15, 1923.

Ser. No. 176,924. (CLASS 37. PAPER AND STATIONERY.) FRED C. STRYPE, New York, N. Y. Filed Mar. 3, 1923.

SUNSET
SAFETY
APPLE WRAPS



No claim is made to the words "Safety Apple Wraps" apart from the other features of the mark.
Particular description of goods.—Apple Wrappers.
Claims use since Mar. 18, 1922.

Ser. No. 176,961. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM FULD, Baltimore, Md. Filed Mar. 5, 1923.

ROCKING CIRCUS

Particular description of goods.—Figure Toys.
Claims use since Apr. 5, 1921.

Ser. No. 177,029. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASIATIC IMPORT CO., INC., New York, N. Y. Filed Mar. 6, 1923.

BARNEY GOOGLE'S
SPARK PLUG
The Wonder Horse

The words "The Wonder Horse" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Toy Animals.
Claims use since about Dec. 15, 1922.

Ser. No. 177,102. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NOBLE AND NOBLE, New York, N. Y. Filed Mar. 7, 1923.

TREASURE ISLAND

Trade-mark "Treasure Island."
Particular description of goods.—Table Game Played with Pieces.
Claims use since Feb. 9, 1922.

Ser. No. 177,107. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REPUBLIC VARNISH COMPANY, Newark, N. J. Filed Mar. 7, 1923.

Slick A-Lac

Particular description of goods.—Ready-Mixed Paint, Varnish, and Paint Enamel.
Claims use since January, 1923.

Ser. No. 177,150. (CLASS 37. PAPER AND STATIONERY.) THE TISSUE COMPANY, Saugerties, N. Y. Filed Mar. 8, 1923.

SATINO

Particular description of goods.—Crepe Paper.
Claims use since Aug. 10, 1916.

Ser. No. 177,200. (CLASS 5. ADHESIVES.) PYRAMID PROCESS CO., INC., East Rochester, N. Y. Filed Mar. 9, 1923.



The word "Products" appearing in the trade-mark is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Dry Paste.
Claims use since Nov. 8, 1922.

Ser. No. 177,384. (CLASS 11. INKS AND INKING MATERIALS.) KEE LOX MANUFACTURING COMPANY, Rochester, N. Y. Filed Mar. 13, 1923.

TRANQUIL

Particular description of goods.—Carbon Paper.
Claims use since Mar. 7, 1923.

Ser. No. 177,400. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. J. MITCHELL & CO. INC., New York, N. Y. Filed Mar. 13, 1923.

TUT-TUT

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 15, 1923.

Ser. No. 177,429. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROS. LTD., London, England. Filed Mar. 14, 1923.

GEISHA

Particular description of goods.—Tobacco Pipes.
Claims use since July 1, 1922.

Ser. No. 177,464. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN ABRASIVE METALS COMPANY, New York, N. Y. Filed Mar. 15, 1923.

PLUMBALUN

Particular description of goods.—Cast Metal Having a Surface Layer of Hard Granular Mineral Elements and Used for Agitating or Stirring Mineral and for Other Purposes.
Claims use since Feb. 17, 1923.

Ser. No. 177,534. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. A. WEYMANN & SON, INC., Philadelphia, Pa. Filed Mar. 15, 1923. Under Ten-year proviso.



The lining on the drawing conventionally represents the colors brown and gold, as shown.
Particular description of goods.—Stringed Musical Instruments That are Either Plucked or Bowed or Fretted Stringed Instruments, the Parts of Such Instruments, and Strings Therefor.
Claims use since 1892.

Ser. No. 177,535. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. A. WEYMANN & SON, INC., Philadelphia, Pa. Filed Mar. 15, 1923. Under ten-year proviso.

KEYSTONE STATE

Particular description of goods.—Stringed Musical Instruments That are Either Plucked or Bowed or Fretted Stringed Instruments, the Parts of Such Instruments, and Strings Therefor.
Claims use since 1892.

Ser. No. 177,539. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BATES VALVE BAG COMPANY, Chicago, Ill. Filed Mar. 16, 1923.

BATES SYSTEM FOR FILLING & CLOSING BAGS

No claim is made to the words "Bates System for Filling and Closing Bags" apart from the mark as shown.
Particular description of goods.—Bag Filling and Packaging Machinery.
Claims use since Jan. 1, 1920.

Ser. No. 177,619. (CLASS 11. INKS AND INKING MATERIALS.) THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 17, 1923.

Timelimit

Particular description of goods.—Printing Inks.
Claims use since January 1919.

Ser. No. 177,644. (CLASS 31. FILTERS AND REFRIGERATORS.) THE AUTOMATIC REFRIGERATING COMPANY, Hartford, Conn. Filed Mar. 19, 1923.

ODIN

Particular description of goods.—Refrigerating Apparatus.
Claims use since Aug. 16, 1922.

Ser. No. 177,664. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HELEN C. GAMBLE, New Brunswick, N. J. Filed Mar. 19, 1923.

Gay-Gambol

Particular description of goods.—Hat Bags.
Claims use since Jan. 12, 1916.

Ser. No. 177,668. (CLASS 7. CORDAGE.) HIGHLAND CORDAGE COMPANY, Highland and Hickory, N. C. Filed Mar. 19, 1923.

HI-LAND

Particular description of goods.—Cords, Twines, Ropes, and Lines of Fiber Material Made from Cotton, Hemp, Manila, Sisal, or Jute, Said Lines Being of the Nature of Clotheslines.
Claims use since Jan. 24, 1923.

Ser. No. 177,718. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Mar. 19, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since June 24, 1916.

Ser. No. 177,726. (CLASS 15. OILS AND GREASES.) JOHN A. CARROLL, doing business as Liquid Wrench Company, Schenectady, N. Y. Filed Mar. 20, 1923.

LIQUID WRENCH

Particular description of goods.—Compound for Loosening Tight Nuts on Bolts, and Lubricating Leaf Springs.
Claims use since Nov. 1, 1922.

Ser. No. 177,734. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GLOBE IMPORT COMPANY, San Francisco, Calif. Filed Mar. 20, 1923.



TRIM-TRESS

Particular description of goods.—Hair Nets.
Claims use since Mar. 6, 1923.

Ser. No. 177,777. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GULF STATES STEEL COMPANY, Birmingham, Ala. Filed Mar. 21, 1923.

CACTUS

Particular description of goods.—Barbed Wire.
Claims use since Dec. 13, 1922.

Ser. No. 177,778. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GULF STATES STEEL COMPANY, Birmingham, Ala. Filed Mar. 21, 1923.

COOSA

Particular description of goods.—Barbed Wire.
Claims use since Dec. 13, 1922.

Ser. No. 177,779. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GULF STATES STEEL COMPANY, Birmingham, Ala. Filed Mar. 21, 1923.

CHEROKEE

Particular description of goods.—Barbed Wire.
Claims use since Dec. 13, 1922.

Ser. No. 177,782. CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUNTER MFG. & COMMISSION CO., New York, N. Y. Filed Mar. 21, 1923.

NORLINA

Trade-mark consists of the word "Norlina."
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 28, 1923.

Ser. No. 177,784. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HYGIENIC FIBRE COMPANY, Versailles, Conn., and New York, N. Y. Filed Mar. 21, 1923.



Particular description of goods.—Absorbent Cotton, Absorbent Gauze, Absorbent Waste, Bandage Rolls, Crinoline Bandages, Dental Napkins, Gauze Bandages, Gauze Pads, Muslin Bandages, and Surgeons' Adhesive Plaster.
Claims use since about Feb. 1, 1923.

Ser. No. 177,844. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Mar. 22, 1923.

KRAYNAY

Trade-mark "Kraynay."
Particular description of goods.—Piece Goods Made of Silk.
Claims use since Dec. 19, 1922.

Ser. No. 177,845. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Mar. 23, 1923.

Karnessa

Trade-mark "Karnessa."
Particular description of goods.—Piece Goods Made of Silk.
Claims use since Jan. 6, 1923.

Ser. No. 177,862. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORAFF, TWINING & Co., New York, N. Y. Filed Mar. 22, 1923.

Sheerlin

Particular description of goods.—Cotton Piece Goods and Silk and Cotton Fabrics.
Claims use since Feb. 1, 1923.

Ser. No. 177,865. (CLASS 11. INKS AND INKING MATERIALS. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 22, 1923.

H. D.

Particular description of goods.—Printing Inks.
Claims use since first week in January, 1879.

Ser. No. 177,866. (CLASS 11. INKS AND INKING MATERIALS.) THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 22, 1923.

Speedlimit

Particular description of goods.—Printing Inks.
Claims use since January, 1900.

Ser. No. 177,876. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEWIS SCHOOLHOUSE, doing business as Chas. Schoolhouse & Son, New York, N. Y. Filed Mar. 22, 1923.

BAMBOO

Particular description of goods.—Silk, Cotton, and Silk and Cotton Mixed Piece Goods.
Claims use since November, 1922.

Ser. No. 177,895. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. BUETTNER & Co., Chicago, Ill. Filed Mar. 23, 1923.

T.B.C.

Particular description of goods.—Pure Linen in the Piece and Linen Table Covers and Napkins.
Claims use since 1899.

Ser. No. 177,908. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) A. FINKL & SONS COMPANY, Chicago, Ill. Filed Mar. 23, 1923.

NI-CRO-MO

Particular description of goods.—Steel Forgings.
Claims use since Feb. 6, 1923.

Ser. No. 177,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

Crepe Isabelle

No claim is made to the word "Crepe" apart from the mark shown on the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since May 29, 1922.

Ser. No. 177,938. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

POLKATEX

Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 17, 1922.

Ser. No. 177,939. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

Woodbine

The drawing is lined for blue; but the color is immaterial.
Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 24, 1922.

Ser. No. 177,986. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORISSE LACE & EMBROIDERY CO., St. Louis, Mo. Filed Mar. 24, 1923.

MOLECO

Particular description of goods.—Laces and Cotton and Silk Goods, Both in the Piece and in the Bolt.
Claims use since August, 1912.

Ser. No. 178,004. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SEWARD TRUNK AND BAG COMPANY, Petersburg, Va. Filed Mar. 24, 1923.

Wonderrobe

Particular description of goods.—Wardrobe Trunks.
Claims use since Jan. 1, 1923.

Ser. No. 178,038. (CLASS 43. THREAD AND YARN.) DANIEL J. HEALY, doing business as D. J. Healy Shops, Detroit, Mich. Filed Mar. 26, 1923.



No claim is made to the exclusive use of the words "Wools Yarns" apart from the mark shown.
Particular description of goods.—Wool Yarns.
Claims use since Mar. 1, 1923.

Ser. No. 178,110. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & Co. INC., New York, N. Y. Filed Mar. 27, 1923.

CleoGypt

Particular description of goods.—Silk Piece Goods.
Claims use since January, 1923.

Ser. No. 178,174. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FLOOD & CONKLIN COMPANY, Newark, N. J. Filed Mar. 28, 1923.

102

Particular description of goods.—Pyroxylin Thinner.
Claims use since Feb. 15, 1923.

Ser. No. 178,209. (CLASS 37. PAPER AND STATIONERY.) BECKER PAPER CORPORATION, New York, N. Y. Filed Mar. 29, 1923.

BECKO

Particular description of goods.—Writing and Bond Paper.
Claims use since Mar. 8, 1923.

Ser. No. 178,211. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CONRAD E. BIEL, doing business as Denver Optic Company, Denver, Colo. Filed Mar. 29, 1923.



Trade-mark consists of two dots, one blue, the other red.
Particular description of goods.—Artificial Eyes.
Claims use since July 21, 1922.

Ser. No. 178,233. (CLASS 2. RECEPTACLES.) DES LAURIERS METAL PRODUCTS CO. INC., St. Paul, Minn. Filed Mar. 29, 1923.

BULL DOG

Particular description of goods.—Milk-Shipping Cans and Cans for Packing and Shipping Ice Cream.
Claims use since Oct. 21, 1922.

Ser. No. 178,260. (CLASS 10. FERTILIZERS.) LANCASTER BONE FERTILIZER CO. INC., Lancaster, Pa. Filed Mar. 29, 1923.

CONESTOGA

Particular description of goods.—Fertilizers and Lime for Fertilizers.
Claims use since Dec. 20, 1922.

Ser. No. 178,274. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) OREGON BRASS WORKS, Portland, Oreg. Filed Mar. 29, 1923.

LOGBLOC

Particular description of goods.—Bearing Bronze.
Claims use since June 1, 1922.

Ser. No. 178,275. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) OREGON BRASS WORKS, Portland, Oreg. Filed Mar. 29, 1923.

TEMPLO

Particular description of goods.—Bearing Bronze.
Claims use since about October, 1919.

Ser. No. 178,304. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Mar. 29, 1923.

SILKANDRAPE

Particular description of goods.—Silk and Cotton Mixed Goods in the Piece.
Claims use since Mar. 10, 1923.

Ser. No. 178,312. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) U. S. HAME COMPANY, Buffalo, N. Y. Filed Mar. 29, 1923.



Particular description of goods.—Hames, Hame Trimmings, and Saddlery Hardware.
Claims use in connection with hames and hame trimmings since Sept. 1, 1901, and in connection with saddlery hardware since Sept. 15, 1922.

Ser. No. 178,313. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) U. S. HAME COMPANY, Buffalo, N. Y. Filed Mar. 29 1923.

u8Hco

Particular description of goods.—Hames, Hame Trimmings, and Saddlery Hardware.
Claims use since Jan. 2, 1912, on hames and hame trimmings; since Sept. 15, 1922, on saddlery hardware.

Ser. No. 178,317. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WAUMBEK MANUFACTURING COMPANY, New York, N. Y. Filed Mar. 29, 1923.

KOOAY
KREPE

No claim made for the word "Krepe" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Crepe Fabrics in the Piece.
Claims use since Jan. 25, 1923.

Ser. No. 178,350. (CLASS 25. LOCKS AND SAFES.) MICHIGAN COIN LOCK COMPANY, Indianapolis, Ind. Filed Mar. 30, 1923.

NIK-O-LOK

Trade-mark "Nik-O Lok."
Particular description of goods.—Coin-Controlled Locks.
Claims use since about Feb. 10, 1923.

Ser. No. 178,377. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROTHERS, LTD., London, England. Filed Mar. 31, 1923.

FIELD-MARSHAL

Particular description of goods.—Tobacco Pipes.
Claims use since Oct. 25, 1921.

Ser. No. 178,378. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DELACOUR BROTHER, LTD., London, England. Filed Mar. 31, 1923.

QUEENIE

Particular description of goods.—Tobacco Pipes.
Claims use since Oct. 25, 1921.

Ser. No. 178,390. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) U. T. HUNGERFORD BRASS & COPPER CO., New York, N. Y. Filed Mar. 31, 1923.

NAVALOY

Particular description of goods.—Babbitt Metal.
Claims use since Dec. 1, 1921.

Ser. No. 178,508. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

40

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Oct. 27, 1922.

Ser. No. 178,509. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

41

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Aug. 5, 1922.

Ser. No. 178,510. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

42

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Nov. 20, 1922.

Ser. No. 178,511. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

43

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Dec. 27, 1922.

Ser. No. 178,512. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

44

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Nov. 22, 1922.

Ser. No. 178,514. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

280

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Sept. 21, 1922.

Ser. No. 178,515. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

280-A

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since July 21, 1921.

Ser. No. 178,516. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

281

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Nov. 24, 1922.

Ser. No. 178,517. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

282

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Jan. 31, 1922.

Ser. No. 178,518. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

283

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Mar. 13, 1923.

Ser. No. 178,519. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

284

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Nov. 24, 1922.

Ser. No. 178,520. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

82

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since June 18, 1919.

Ser. No. 178,521. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 3, 1923.

K.B

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Dec. 13, 1922.

Ser. No. 178,524. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Apr. 3, 1923.

VALLEY OF THE KINGS

Particular description of goods.—Silk Piece Goods.
Claims use since January, 1923.

Ser. No. 178,726. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

601

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Apr. 14, 1922.

Ser. No. 178,727. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

602

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Sept. 22, 1922.

Ser. No. 178,728. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

603

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Aug. 8, 1922.

Ser. No. 178,729. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

603 A

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Sept. 11, 1922.

Ser. No. 178,730. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

604 A

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Nov. 13, 1922.

Ser. No. 178,731. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

604-B

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Oct. 4, 1922.

Ser. No. 178,732. (CLASS 15. (OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

605

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Dec. 13, 1922.

Ser. No. 178,733. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

606

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Apr. 24, 1922.

Ser. No. 178,734. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

900

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Oct. 6, 1922.

Ser. No. 178,735. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

901

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Oct. 6, 1922.

Ser. No. 178,736. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

902

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Sept. 14, 1922.

Ser. No. 178,737. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

903

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Aug. 30, 1922.

Ser. No. 178,739. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

905

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Dec. 5, 1922.

Ser. No. 178,740. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

906

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Apr. 15, 1922.

Ser. No. 178,741. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

820

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since July 16, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 15, 1923.

168,038. BRUSHES, BROOMS, AND DUSTERS. CALHOUN, ROBBINS & CO., New York, N. Y.
Filed November 18, 1922. Serial No. 172,203. PUBLISHED FEBRUARY 20, 1923.

168,039. BAGS, BOXES, CASES, AND TRAYS. CALHOUN, ROBBINS & CO., New York, N. Y.
Filed November 18, 1922. Serial No. 172,205. PUBLISHED FEBRUARY 20, 1923.

168,040. SOFT-DRINK SIRUPS. AMERICAN SYRUP CO., Boston, Mass.
Filed December 4, 1922. Serial No. 172,856. PUBLISHED FEBRUARY 20, 1923.

168,041. COTTON PIECE GOODS. S. H. KAHN & CO., New York, N. Y.
Filed December 8, 1922. Serial No. 173,086. PUBLISHED FEBRUARY 13, 1923.

168,042. COTTON PIECE GOODS. S. H. KAHN & CO., New York, N. Y.
Filed December 8, 1922. Serial No. 173,087. PUBLISHED FEBRUARY 13, 1923.

168,043. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed December 9, 1922. Serial No. 173,138. PUBLISHED FEBRUARY 13, 1923.

168,044. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed December 11, 1922. Serial No. 173,164. PUBLISHED FEBRUARY 13, 1923.

168,045. FOLDING BOXES. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed December 11, 1922. Serial No. 173,205. PUBLISHED FEBRUARY 20, 1923.

168,046. MERCHANDISE ENVELOPES. ALEXANDER HERZ, doing business as Alexander Herz Company, New York, N. Y.
Filed December 19, 1922. Serial No. 173,567. PUBLISHED FEBRUARY 20, 1923.

168,047. MEDICAL PREPARATION TO BE USED FOR A PROPHYLACTIC, ANTISEPTIC, HEALING AND SOOTHING AGENT, AND URETHRAL BLAND. BI-OXO-DYN CO., Savannah, Ga.
Filed September 12, 1922. Serial No. 169,346. PUBLISHED FEBRUARY 20, 1923.

168,048. CHEMICALLY-TREATED DUST CLOTHS. LESLIE P. GALBRAITH, Pueblo, Colo.
Filed September 13, 1922. Serial No. 169,398. PUBLISHED FEBRUARY 6, 1923.

168,049. VEGETABLE-OIL LINIMENT FOR EXTERNAL APPLICATION FOR RELIEF OF ACHES, PAINS, CUTS, BRUISES, BITES, AND THROAT AND NASAL PASSAGES. ORVILLE M. NORCROSS, doing business as O. M. Norcross Co., Pemberton, N. J.
Filed September 18, 1922. Serial No. 169,603. PUBLISHED FEBRUARY 20, 1923.

168,050. BRICK, AND TILE EXCEPT METAL AND PORCELAIN. ACME BRICK COMPANY, Danville, Ill.
Filed September 19, 1922. Serial No. 169,666. PUBLISHED FEBRUARY 20, 1923.

168,051. HAIR DRESSING. RALPH W. WHITAKER, New York, N. Y.
Filed September 22, 1922. Serial No. 169,837. PUBLISHED FEBRUARY 6, 1923.

168,052. COMPOUND FOR REMOVING CARBON FROM GAS ENGINES. CHARLES H. COBURN, Laconia, N. H.
Filed September 23, 1922. Serial No. 169,846. PUBLISHED FEBRUARY 6, 1923.

168,053. PREPARATIONS FOR THE TREATMENT OF LA GRIPPE, INFLUENZA, COUGHS, COLDS, SORE THROAT, ACUTE PHARYNGITIS, TONSILITIS, MALARIAL FEVER, CHILLS AND FEVER, FEVER AND AGUE, MALARIAL ANÆMIA, CATARRHAL FEVER, EPIDEMIC CATARRH, AND DISEASES PECULIAR TO THE TROPICS. THE SYDNEY ROSS CO., Newark, N. J.
Filed September 27, 1922. Serial No. 169,985. PUBLISHED FEBRUARY 6, 1923.

168,054. CERTAIN NAMED SHOE POLISHES AND CLEANERS. THE PEB-CHEE CLEANER MANUFACTURING COMPANY, Cleveland, Ohio.
Filed September 28, 1922. Serial No. 170,033. PUBLISHED FEBRUARY 6, 1923.

168,055. COMPOSITION USED FOR SPRAYING AND DESTROYING BOLL WEEVIL AND OTHER INSECTS DETRIMENTAL TO COTTON PLANTS AND OTHER SIMILAR PLANTS. BOLL-WE-GO MANUFACTURING COMPANY, Atlanta, Ga.
Filed September 29, 1922. Serial No. 170,053. PUBLISHED FEBRUARY 6, 1923.

168,056. PREPARATION FOR TREATMENT OF HUMAN, LIVE STOCK, AND FOWLS. HENRY H. SHIELDS, doing business as Seminole Remedy Co., Louisville, Ky.
Filed October 3, 1922. Serial No. 170,259. PUBLISHED FEBRUARY 20, 1923.

168,057. WINDOW SQUEEGEE. AARON WENGER, doing business as Crystal Window Cleaner, New York, N. Y.
Filed October 3, 1922. Serial No. 170,261. PUBLISHED FEBRUARY 20, 1923.

168,058. TOILET ARTICLES AND PREPARATIONS. CONTINENTAL DRUG CORPORATION, St. Louis, Mo.
Filed September 29, 1922. Serial No. 170,056. PUBLISHED FEBRUARY 6, 1923.

168,059. STOVE POLISH. DAVID TOBIN, doing business as Tobin Chemical Co., Boston, Mass.
Filed October 4, 1922. Serial No. 170,316. PUBLISHED FEBRUARY 6, 1923.

168,060. DISPLAY DEVICE. AMERICAN MINT COMPANY, Philadelphia, Pa.
Filed October 18, 1922. Serial No. 170,858. PUBLISHED FEBRUARY 20, 1923.

168,061. INSECTICIDES. DE FORREST WOOD, Kipton, Ohio.
Filed October 18, 1922. Serial No. 170,917. PUBLISHED FEBRUARY 20, 1923.

168,062. OINTMENT FOR THE TREATMENT OF PILES. L. J. JUDSON, doing business as Guinea Products Co., Los Angeles, Calif.
Filed October 21, 1922. Serial No. 171,024. PUBLISHED FEBRUARY 20, 1923.

168,063. CIGARS. HAVANA CIGAR CO., Cheyenne, Wyo.
Filed October 28, 1922. Serial No. 171,319. PUBLISHED FEBRUARY 20, 1923.

168,064. VETERINARY REMEDY FOR THE PREVENTION OF ABORTION IN CATTLE. HARVE C. BABBITT, Boise, Idaho.
Filed October 30, 1922. Serial No. 171,347. PUBLISHED FEBRUARY 20, 1923.

168,065. HAT DYE. GEORGE H. CAPEN, doing business as Crow Specialties Company, Canton Junction, Mass.
Filed October 30, 1922. Serial No. 171,350. PUBLISHED FEBRUARY 20, 1923.

168,066. GOLF CLUBS. THE CRAWFORD MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed November 6, 1922. Serial No. 171,622. PUBLISHED FEBRUARY 20, 1923.

168,067. CHILDREN'S SUITS OF WASHABLE MATERIAL—NAMELY, ROMPERS, PLAY SUITS, AND BOYS' TWO-PIECE SUITS. M. E. SMITH & CO. INC., Omaha, Nebr.
Filed June 2, 1922. Serial No. 164,835. PUBLISHED NOVEMBER 28, 1922.

168,068. HOSIERY. ALPERSON & SON, doing business as Allalik Hosiery Mills, Omaha, Nebr.
Filed May 18, 1922. Serial No. 164,018. PUBLISHED JANUARY 9, 1923.

168,069. MEN'S SUITS, OVERCOATS, AND TROUSERS. FINSTERWALD CLOTHING CO., Detroit, Mich.
Filed May 13, 1922. Serial No. 163,790. PUBLISHED OCTOBER 31, 1922.

168,070. FUR GARMENTS—NAMELY, COATS, CLOAKS, AND WRAPS, CAPES, NECK PIECES, SCARFS, CHOKERS, COLLARS, COLLARETTES, MUFFS, AND FUR HATS. F. L. GOULD, doing business as Alaskan Fur Company, Houston, Tex.
Filed April 17, 1922. Serial No. 162,401. PUBLISHED FEBRUARY 20, 1923.

168,071. RUBBER HEELS. LYNCH HEEL COMPANY, Chelsea, Mass.
Filed March 30, 1922. Serial No. 161,490. PUBLISHED FEBRUARY 27, 1923.

168,072. MEN'S AND BOYS' WORK SHIRTS. ROSENBAUM BROTHERS, Salt Lake City, Utah.
Filed March 18, 1922. Serial No. 160,901. PUBLISHED AUGUST 29, 1922.

168,073. HOSIERY. THE JENNINGS MANUFACTURING COMPANY, Dayton, Ohio.
Filed February 10, 1922. Serial No. 159,153. PUBLISHED OCTOBER 31, 1922.

168,074. SPORTING HOSIERY. DAVID KIRSCH, Montreal, Canada, and New York, N. Y.
Filed February 9, 1922. Serial No. 159,093. PUBLISHED FEBRUARY 27, 1923.

168,075. DRESS, NEGLIGEE, AND WORK SHIRTS AND COLLARS. HALL, HARTWELL & Co., Troy, N. Y.
Filed January 24, 1922. Serial No. 158,393. PUBLISHED JANUARY 23, 1923.

168,076. CIGARS. TOM G. GERANIAS, Decatur, Ill.
Filed January 23, 1922. Serial No. 158,307. PUBLISHED FEBRUARY 27, 1923.

168,077. BANDEAUX AND BRASSIÈRES. VANITY BRASSIERE COMPANY INC., New York, N. Y.
Filed December 10, 1921. Serial No. 156,557. PUBLISHED JULY 11, 1922.

168,078. SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. JELLY-DELANEY SHOE CO., Lynn, Mass.
Filed December 6, 1921. Serial No. 156,330. PUBLISHED FEBRUARY 27, 1923.

168,079. MEN'S AND YOUNG MEN'S SUITS AND COATS. LOB, HUBBART & SILVERMAN, New York, N. Y.
Filed September 30, 1921. Serial No. 153,559. PUBLISHED MAY 23, 1922.

168,080. PAPER, BOTH PLAIN AND SAFETY, DESIGNED FOR USE IN BUSINESS STATIONERY, INCLUDING LETTERHEADS, BILLHEADS, ENVELOPES, CHECKS, DRAFTS, BOOKLETS, AND PRINTED FORMS GENERALLY. THE FORMAN-BASSETT COMPANY, Cleveland, Ohio.
Filed August 22, 1921. Serial No. 152,007. PUBLISHED DECEMBER 26, 1922.

168,081. PISTON RINGS. UNITED STATES HAMMERED PISTON RING CO., Irvington, N. J.
Filed November 30, 1920. Serial No. 140,477. PUBLISHED DECEMBER 26, 1922.

168,082. SMOKING AND CHEWING TOBACCO AND CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed October 25, 1920. Serial No. 138,771. PUBLISHED FEBRUARY 27, 1923.

168,083. DRESS, NEGLIGEE, AND WORK SHIRTS AND COLLARS. HALL, HARTWELL & CO., Troy, N. Y.
Filed September 1, 1920. Serial No. 136,707. PUBLISHED JANUARY 9, 1923.

168,084. CHILDREN'S OVERALL PLAY SUITS. THE MARYLAND COMPANY, Baltimore, Md.
Filed March 4, 1920. Serial No. 129,239. PUBLISHED JUNE 1, 1920.

168,085. THREE-WHEELED CARTS. ROCHESTER TOY COMPANY, Rochester, N. Y.
Filed August 18, 1919. Serial No. 121,785. PUBLISHED FEBRUARY 20, 1923.

168,086. CIGARS. GEO. FEHL BLUE RIBBON CIGAR CO., St. Louis, Mo.
Filed December 16, 1918. Serial No. 114,670. PUBLISHED MAY 9, 1922.

168,087. MEN'S READY-MADE CLOTHING. THEXTON & WRIGHT LTD., London, England, and New York, N. Y.
Filed March 7, 1922. Serial No. 160,310. PUBLISHED FEBRUARY 13, 1923.

168,088. DOUBLE-WALLED RECEPTACLES FOR FOODS, DRINKS, ETC. ISOLA GESELLSCHAFT FÜR WÄRME- UND KÄLTE-ISOLIERUNG, Rudolstadt, Germany.
Filed March 13, 1922. Serial No. 160,608. PUBLISHED FEBRUARY 27, 1923.

168,089. BATHROOM ACCESSORIES. J. P. EUSTIS MANUFACTURING COMPANY, Cambridge, Mass.
Filed March 31, 1922. Serial No. 161,531. PUBLISHED FEBRUARY 27, 1923.

168,090. READY-MIXED PAINTS AND JAPAN DRIERS. TOCH BROTHERS, New York, N. Y., assignors to Toch Brothers, Incorporated, New York, N. Y., a Corporation of New York.
Filed March 31, 1922. Serial No. 161,593. PUBLISHED OCTOBER 31, 1922.

168,091. SANDWICH FILLING. MAY BELLE BROWN, Merrimac, Mass.
Filed April 5, 1922. Serial No. 161,765. PUBLISHED FEBRUARY 13, 1923.

168,092. ENDLESS WOVEN CORD FABRICS FOR USE IN THE MANUFACTURE OF TIRES AND FABRIC BELTING. STOCKTON COMMISSION CO. INC., New York, N. Y., assignor to Textiles Development Corporation, New York, N. Y., a Corporation of Delaware.
Filed April 14, 1922. Serial No. 162,315. PUBLISHED FEBRUARY 20, 1923.

168,093. PHOTOGRAPHIC FILMS AND APPARATUS. CLYDE E. ELLIOTT, New York, N. Y.
Filed April 17, 1922. Serial No. 162,389. PUBLISHED FEBRUARY 27, 1923.

168,094. PHOTOGRAPHIC FILMS AND APPARATUS. CLYDE E. ELLIOTT, New York, N. Y.
Filed April 17, 1922. Serial No. 162,390. PUBLISHED FEBRUARY 27, 1923.

168,095. PHOTOGRAPHIC FILMS AND APPARATUS. CLYDE E. ELLIOTT, New York, N. Y.
Filed April 17, 1922. Serial No. 162,391. PUBLISHED FEBRUARY 27, 1923.

168,096. BIRD-CAGE STANDS, BIRD-CAGE SCREENS; BIRD-CAGE HOOKS, CHAIN, AND COIL SPRINGS. THE ANDREW B. HENDRYX CO., New Haven, Conn.
Filed April 19, 1922. Serial No. 162,550. PUBLISHED FEBRUARY 27, 1923.

168,097. TOILET LOTIONS. M. E. BRINCKERHOFF, San Diego, Calif.
Filed May 10, 1922. Serial No. 163,612. PUBLISHED FEBRUARY 13, 1923.

168,098. TOILET LOTIONS. M. E. BRINCKERHOFF, San Diego, Calif.
Filed May 10, 1922. Serial No. 163,612½. PUBLISHED FEBRUARY 13, 1923.

168,099. CERTAIN NAMED FOODS. SAVOY IMPORTING CO., INC., New York, N. Y.
Filed May 11, 1922. Serial No. 163,712. PUBLISHED FEBRUARY 27, 1923.

168,100. FRESH CHERRIES. T. D. BRYAN, Linden, Calif.
Filed May 12, 1922. Serial No. 163,734. PUBLISHED FEBRUARY 20, 1923.

168,101. CARBON REMOVERS FOR INTERNAL-COMBUSTION ENGINES. THE Q B MANUFACTURING CO., Chicago, Ill.
Filed May 25, 1922. Serial No. 164,512. PUBLISHED JANUARY 2, 1923.

168,102. CLOTHING—VIZ, HATS AND CAPS. CHARLES S. MEATON & CO., Rutherford, N. J.
Filed May 31, 1922. Serial No. 164,716. PUBLISHED FEBRUARY 6, 1923.

168,103. PETROLEUM TAILINGS, ROAD OILS, RESIDUAL OILS, BLACK OILS, AND FUEL OILS. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 1, 1922. Serial No. 164,782. PUBLISHED FEBRUARY 20, 1923.

168,104. CANNED VEGETABLES, PARTICULARLY PEAS AND CORN. INDEPENDEN CANNING CO., Chicago, Ill.
Filed June 3, 1922. Serial No. 164,917. PUBLISHED FEBRUARY 13, 1923.

168,105. FRESH TOMATOES. FREDERICK ELWOOD MOJONNIER, doing business as Walla Walla Hothouse Vegetable Co., Walla Walla, Wash.
Filed June 3, 1922. Serial No. 164,935. PUBLISHED FEBRUARY 20, 1923.

168,106. TONICS FOR AIDING DIGESTION, IMPROVING THE APPETITE, PURIFYING THE BLOOD, AND ACTING AS A GENERAL BUILDER AND RECONSTRUCTOR. MODERN PHARMACAL CO. INC., New York, N. Y.
Filed June 2, 1922. Serial No. 164,819. PUBLISHED FEBRUARY 13, 1923.

168,107. A POLISH AND COATING FOR THE FRONT ENDS AND STACKS OF LOCOMOTIVES TO PRESERVE THE METAL OVER WHICH IT IS APPLIED. CHAS. R. LONG, JR. CO., Louisville, Ky., and Chicago, Ill.
Filed January 2, 1912. Serial No. 60,550. PUBLISHED APRIL 30, 1918.

168,108. CHILDREN'S AND YOUTHS' ONE-PIECE PYJAMAS. THE KAYNEE COMPANY, Cleveland, Ohio.
Filed December 18, 1919. Serial No. 126,219. PUBLISHED FEBRUARY 13, 1923.

168,109. FEMALES' HOUSE DRESSES, APRONS, STREET DRESSES. ALICE JANE DOUGHERTY, Flushing, N. Y.
Filed July 31, 1920. Serial No. 135,688. PUBLISHED JULY 26, 1921.

168,110. PETTICOAT. ESTELLA MAY MCRAE, Tacoma, Wash.
Filed August 10, 1920. Serial No. 135,972. PUBLISHED FEBRUARY 6, 1923.

168,111. PAINTS AND PAINTERS' MATERIALS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed March 23, 1921. Serial No. 145,131. PUBLISHED FEBRUARY 20, 1923.

168,112. FUR GARMENTS AND WOMEN'S COATS WITH FUR TRIMMING. SAPCHIK & COMPANY, New York, N. Y.
Filed May 18, 1921. Serial No. 147,895. PUBLISHED MARCH 7, 1922.

168,113. LADIES' HATS. RADIO HAT CO. INC., New York, N. Y.
Filed July 9, 1921. Serial No. 150,203. PUBLISHED JANUARY 16, 1923.

168,114. PHARMACEUTICAL PREPARATION, A FLUID COMPOUND WHOSE SPECIFIC MEDICINAL USE IS THAT OF A NERVE TONIC. C. BARLETTA PAZ, New Orleans, La.
Filed July 27, 1921. Serial No. 151,019. PUBLISHED FEBRUARY 20, 1923.

168,115. OPHTHALMIC AND SPECTACLE LENSES. OPTICS LIMITED, London, England.
Filed August 11, 1921. Serial No. 151,686. PUBLISHED FEBRUARY 20, 1923.

168,116. STAMPED METAL PRODUCTS—NAMELY, BOLT ANCHORS AND EXPANSION SHIELDS. STAR EXPANSION BOLT COMPANY, New York, N. Y.
Filed September 8, 1921. Serial No. 152,729. PUBLISHED FEBRUARY 27, 1923.

168,117. ROUGE AND FACE POWDERS. FREDERICK F. INGRAM COMPANY, Detroit, Mich.
Filed October 8, 1921. Serial No. 153,884. PUBLISHED FEBRUARY 13, 1923.

168,118. RUBBER TIRES AND TUBES. THE FISK RUBBER COMPANY, Chicopee Falls, Mass.
Filed November 23, 1921. Serial No. 155,812. PUBLISHED JANUARY 30, 1923.

168,119. TOILET PREPARATIONS—NAMELY, TOILET WATER, POWDER, CREAM, PERFUME, LIP STICK. DAVID MASON, doing business as Elinette Co., New York, N. Y.
Filed December 30, 1921. Serial No. 157,330. PUBLISHED FEBRUARY 13, 1923.

168,120. SIZED GOLD LEAF, IMITATION GOLD LEAF, AND SILVER LEAF. FRANK R. COUGHLIN, New York, N. Y., assignor to Coughlin Manufacturing Co., New York, N. Y., a Partnership composed of Frank R. Coughlin and Paul V. Coughlin.
Filed January 18, 1922. Serial No. 158,075. PUBLISHED FEBRUARY 27, 1923.

168,121. RUBBER AND OILED COATS AND JACKETS. GOODYEAR RUBBER CO., San Francisco, Calif.
Filed January 30, 1922. Serial No. 158,612. PUBLISHED JANUARY 30, 1923.

168,122. RUBBER AND OILED COATS AND JACKETS. GOODYEAR RUBBER CO., San Francisco, Calif.
Filed January 30, 1922. Serial No. 158,613. PUBLISHED FEBRUARY 20, 1923.

168,123. MANICURE SCISSORS, NAIL CLIPPERS, FILES, AND TWEEZERS FOR USE UPON THE PERSON. MAPPIN & WEBB, LIMITED, Sheffield and London, England.
Filed February 17, 1922. Serial No. 159,476. PUBLISHED FEBRUARY 27, 1923.

168,124. LANCETS, FLEAMS, AND SURGICAL SCISSORS. MAPPIN & WEBB LIMITED, Sheffield and London, England.
Filed February 17, 1922. Serial No. 159,477. PUBLISHED FEBRUARY 27, 1923.

168,125. MEN'S OVERCOATS, SUITS, CAPS, SHIRTS, COLLARS, AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THE SAME. WILSON & GLENNY, LTD., Hawick, Scotland.
Filed February 27, 1922. Serial No. 159,909. PUBLISHED FEBRUARY 27, 1923.

168,126. RAZORS AND SCISSORS. ANTON WINGEN, Jr., Solingen, Germany.
Filed March 3, 1922. Serial No. 160,169. PUBLISHED FEBRUARY 27, 1923.

168,127. HEALING OINTMENT FOR BURNS, BOILS, ERUPTIONS, IRRITATION, SKIN HUMORS, AND ITCH. THE E. L. PATCH COMPANY, Stoneham, Mass.
Filed October 23, 1922. Serial No. 171,100. PUBLISHED FEBRUARY 13, 1923.

168,128. LIQUID MEASURING AND DISPENSING PUMPS. THE MARVEL EQUIPMENT COMPANY, Cleveland, Ohio.
Filed October 20, 1922. Serial No. 170,985. PUBLISHED FEBRUARY 20, 1923.

168,129. SAXOPHONES. THE ELKHART BAND INSTRUMENT COMPANY, Elkhart, Ind.
Filed October 20, 1922. Serial No. 170,972. PUBLISHED FEBRUARY 6, 1923.

168,130. PREPARATION FOR PREVENTION OF MOTHS. ROBERT S. MARSHALL, doing business as The Steenburg Fur Company, Gloversville, N. Y.
Filed October 17, 1922. Serial No. 170,826. PUBLISHED FEBRUARY 13, 1923.

168,131. HAIR TONICS. JULIUS EHMANN, doing business as Oliveine Laboratories, Newark, N. J.
Filed October 17, 1922. Serial No. 170,810. PUBLISHED FEBRUARY 13, 1923.

168,132. CIDER MILLS AND FRUIT PRESSES. CROWN MANUFACTURING COMPANY, Phelps, N. Y.
Filed October 17, 1922. Serial No. 170,809. PUBLISHED FEBRUARY 20, 1923.

168,133. MUSICAL INSTRUMENTS—VIZ, SAXOPHONES. THE SAXOPHONE SHOP, Chicago, Ill.
Filed October 16, 1922. Serial No. 170,790. PUBLISHED FEBRUARY 20, 1923.

168,134. MEDICATED TABLET FOR THE RELIEF OF INDIGESTION AND AILMENTS OF THE THROAT, PARTICULARLY HOARSENESS, SORE THROAT, AND COUGHS. LAMBERT PHARMACAL COMPANY, St. Louis, Mo.
Filed October 16, 1922. Serial No. 170,770. PUBLISHED FEBRUARY 13, 1923.

168,135. MOTION-PICTURE FILMS TO BE ISSUED SERIALLY. JAMES T. KELLY, doing business as Kelly Feature Film Co., Los Angeles, Calif.
Filed October 12, 1922. Serial No. 170,652. PUBLISHED FEBRUARY 20, 1923.

168,136. PLOWS, PLOWSHARES, MOLDBOARDS, PLOWPOINTS, LANDSIDES, PLOW STANDARDS, PLOW BEAMS, AND PLOW HANDLES. THE BUCHER & GIBBS PLOW COMPANY, Canton, Ohio.
Filed October 9, 1922. Serial No. 170,473. PUBLISHED JANUARY 9, 1923.

168,137. WHITE MINERAL OIL. STANDARD OIL COMPANY, INCORPORATED IN NEW JERSEY, Bayonne, N. J.
Filed October 6, 1922. Serial No. 170,410. PUBLISHED FEBRUARY 13, 1923.

168,138. PLATED FLATWARE. JOSEPH FAHYS & COMPANY, New York, N. Y.
Filed October 6, 1922. Serial No. 170,373. PUBLISHED FEBRUARY 20, 1923.

168,139. POISONOUS MIXTURE FOR THE DESTRUCTION OF RATS AND RODENTS. CHARLES G. WOODS, Jr., doing business as C. G. Woods Chemical Co., Glendale, Calif.
Filed October 5, 1922. Serial No. 170,346. PUBLISHED FEBRUARY 6, 1923.

168,140. CONDIMENT HOLDER. HARRY W. STONER, doing business as S. & P. Novelty Co., Trenton, N. J.
Filed October 4, 1922. Serial No. 170,315. PUBLISHED FEBRUARY 20, 1923.

168,141. MONEY RECEPTACLES OR PORTABLE BANKS. THE BANKERS SAVINGS & CREDIT SYSTEM COMPANY, Cleveland, Ohio.
Filed October 4, 1922. Serial No. 170,268. PUBLISHED FEBRUARY 27, 1923.

168,142. HATCHETS. L. A. SAYRE CO., Newark, N. J.
Filed September 30, 1922. Serial No. 170,158. PUBLISHED FEBRUARY 13, 1923.

168,143. CERTAIN NAMED ADVERTISING MATTER. HANS PAULI, Des Moines, Iowa.
Filed September 29, 1922. Serial No. 170,078. PUBLISHED JANUARY 30, 1923.

168,144. CHILDREN'S PLAY SUITS. BUXTON GARMENT MFG. CO., Nashua, N. H.
Filed September 28, 1922. Serial No. 170,002. PUBLISHED JANUARY 30, 1923.

168,145. ELECTRIC CLOTHES-WASHING MACHINES. SAVAGE ARMS CORPORATION, New York, N. Y.
Filed September 19, 1922. Serial No. 169,694. PUBLISHED FEBRUARY 20, 1923.

168,146. CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, AND BELTS USED AS ORDINARY CLOTHING. ROYAL WORCESTER CORSET COMPANY, Worcester, Mass.
Filed September 18, 1922. Serial No. 169,650. PUBLISHED FEBRUARY 20, 1923.

168,147. BIRD CAGES. THE ANDREW B. HENDRYX CO., New Haven, Conn.
Filed December 14, 1922. Serial No. 173,316. PUBLISHED FEBRUARY 27, 1923.

168,148. GASOLINE AND VOLATILE COMPOSITIONS DERIVED FROM PETROLEUM. ALAN G. BURROW, Norfolk, Va.
Filed November 25, 1922. Serial No. 172,510. PUBLISHED FEBRUARY 27, 1923.

168,149. CERTAIN NAMED TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed November 25, 1922. Serial No. 172,562. PUBLISHED FEBRUARY 20, 1923.

168,150. PLIERS. THE PECK, STOW & WILCOX CO., Southington, Conn.
Filed November 27, 1922. Serial No. 172,613. PUBLISHED FEBRUARY 27, 1923.

168,151. COTTON PIECE GOODS. HELLER & LONG, New York, N. Y.
Filed November 29, 1922. Serial No. 172,673. PUBLISHED FEBRUARY 13, 1923.

168,152. CAMEL'S-HAIR CLOTH IN THE PIECE. WILKIN & ADLER, INC., New York, N. Y.
Filed November 29, 1922. Serial No. 172,710. PUBLISHED FEBRUARY 13, 1923.

168,153. PUMPS AND AGITATORS; AND THICKENERS, SCREENS, AND CLASSIFIERS FOR SEPARATING SOLIDS FROM LIQUIDS. THE DORR COMPANY, New York, N. Y.
Filed December 9, 1922. Serial No. 173,128. PUBLISHED FEBRUARY 27, 1923.

168,154. PAPER WRAPPERS. AMERICAN BREAD WRAPPER COMPANY, Chicago, Ill.
Filed December 11, 1922. Serial No. 173,160. PUBLISHED FEBRUARY 13, 1923.

168,155. PASS BOOKS. WILLIAM MANN COMPANY, Philadelphia, Pa.
Filed December 12, 1922. Serial No. 173,266. PUBLISHED FEBRUARY 13, 1923.

168,156. BAMBOO RAKES. INOSUKE TSUCHIYA, San Francisco, Calif.
Filed December 13, 1922. Serial No. 173,308. PUBLISHED FEBRUARY 27, 1923.

168,157. UNDERGARMENTS OF TEXTILE FABRIC FOR CHILDREN. A. STEIN & COMPANY, Chicago, Ill.
Filed June 8, 1922. Serial No. 165,218. PUBLISHED JANUARY 30, 1923.

168,158. OLIVE OIL. G. LINGUA & CO., Los Angeles, Calif.
Filed June 9, 1922. Serial No. 165,237. PUBLISHED FEBRUARY 13, 1923.

168,159. BOOTS AND SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. INTERNATIONAL SHOE COMPANY, St. Louis, Mo.
Filed June 12, 1922. Serial No. 165,380. PUBLISHED FEBRUARY 20, 1923.

168,160. CORSETS. JACOB L. ALBERTS, New York, N. Y.
Filed June 15, 1922. Serial No. 165,516. PUBLISHED FEBRUARY 20, 1923.

168,161. WOMEN'S AND CHILDREN'S HATS. EASTERN HAT & CAP CO. INC., New York, N. Y.
Filed June 19, 1922. Serial No. 165,670. PUBLISHED JANUARY 30, 1923.

168,162. STORM PROTECTIVE COVERING IN THE FORM OF A COMBINED HOOD AND CAPE. OMBRELO, INC., New York, N. Y.
Filed June 20, 1922. Serial No. 165,757. PUBLISHED FEBRUARY 6, 1923.

168,163. RAZORS, SAFETY RAZORS, MECHANICAL STROPS, TABLE KNIVES AND FORKS OF BASE METAL, HAIR CLIPPERS, SCISSORS, AND POCKETKNIVES. GEBR. KORTE, STAHLWARENFABRIK, Solingen, Germany.
Filed June 23, 1922. Serial No. 165,945. PUBLISHED FEBRUARY 27, 1923.

168,164. RAZORS, SAFETY RAZORS, AND MECHANICAL STROPS. GEBR. KORTE, STAHLWARENFABRIK, Solingen, Germany.
Filed June 23, 1922. Serial No. 165,946. PUBLISHED FEBRUARY 27, 1923.

168,165. RAZORS AND SAFETY RAZORS. GEBR. KORTE, STAHLWARENFABRIK, Solingen, Germany.
Filed June 23, 1922. Serial No. 165,947. PUBLISHED FEBRUARY 27, 1923.

168,166. HOSIERY. AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md.
Filed June 29, 1922. Serial No. 166,213. PUBLISHED NOVEMBER 14, 1922.

168,167. CLINICAL AND MEDICAL THERMOMETERS, HYPODERMIC SYRINGES AND NEEDLES. THE G. FAICHNEY COMPANY, Watertown, N. Y.
Filed June 29, 1922. Serial No. 166,226. PUBLISHED FEBRUARY 13, 1923.

168,168. HOSIERY. THE POWELL KNITTING COMPANY, Philadelphia, Pa.
Filed June 29, 1922. Serial No. 166,245. PUBLISHED JANUARY 30, 1923.

168,169. PREPARATIONS FOR THE TREATMENT OF TUBERCULOSIS. SOCIÉTÉ DES PRODUITS CHIMIQUES DE L'ISLE SAINT-DENIS, Saint-Denis, Seine, France.
Filed July 7, 1922. Serial No. 166,579. PUBLISHED FEBRUARY 13, 1923.

168,170. SALVE FOR THE AMELIORATION OF SORENESS IN FATIGUED HUMAN PEDAL EXTREMITIES. INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., doing business as Hi-Gypsy Co., New York, N. Y.
Filed July 8, 1922. Serial No. 166,599. PUBLISHED FEBRUARY 13, 1923.

168,171. SOAP AND GENERAL CLEANING COMPOUND. A. S. MORGAN, doing business as The Morgan Products Co., Toledo, Ohio, assignor to The Morgan Products Company, Toledo, Ohio, a Corporation of Ohio.
Filed July 13, 1922. Serial No. 166,843. PUBLISHED FEBRUARY 13, 1923.

168,172. ELECTRICAL THERAPEUTIC LAMP USED IN RAYING BODIES OF PATIENTS UNDER SURGICAL AND MEDICAL TREATMENT. HARRY W. NELSON, Chicago, Ill.
Filed July 13, 1922. Serial No. 166,844. PUBLISHED FEBRUARY 13, 1923.

168,173. COFFEE. JAMES JOHNSTON, Spokane, Wash.
Filed August 16, 1922. Serial No. 168,315. PUBLISHED FEBRUARY 20, 1923.

168,174. MEN'S AND BOYS' SUITS, INCLUDING COATS, VESTS, AND PANTS; BOYS' PANTS, AND MEN'S AND BOYS' OVERCOATS. MICHAEL OWENS, St. Louis, Mo.
Filed August 21, 1922. Serial No. 168,547. PUBLISHED FEBRUARY 6, 1923.

168,175. HOSIERY. WALLACH & MAYER, INC., New York, N. Y.
Filed August 18, 1922. Serial No. 168,442. PUBLISHED JANUARY 30, 1923.

168,176. MACHINES FOR APPLYING WATCH CRYSTALS. GERMANOW-SIMON MACHINE CO., Rochester, N. Y.
Filed September 18, 1922. Serial No. 169,632. PUBLISHED FEBRUARY 13, 1923.

168,177. DAILY NEWSPAPER. DOW, JONES & COMPANY, New York, N. Y.
Filed September 18, 1922. Serial No. 169,627. PUBLISHED JANUARY 2, 1923.

168,178. MEN'S BELTS. T. J. O'CONNOR & SONS, INCORPORATED, Baltimore, Md.
Filed September 16, 1922. Serial No. 169,557. PUBLISHED JANUARY 30, 1923.

168,179. VEHICLE TIRES, INNER TUBES, TIRE CASINGS AND SHOES, AND REPAIR PARTS FOR THE SAME. THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio.
Filed September 13, 1922. Serial No. 169,401. PUBLISHED JANUARY 30, 1923.

168,180. GASOLINE GAUGES. THE STEMCO ENGINEERING COMPANY, Dayton, Ohio.
Filed September 11, 1922. Serial No. 169,337. PUBLISHED JANUARY 2, 1923.

168,181. DEVICE USED IN CONNECTION WITH INTERNAL-COMBUSTION ENGINES FOR STOPPING THE SAME WHEN THE LUBRICATING SYSTEM FAILS TO FUNCTION PROPERLY. THE PIERCE GOVERNOR COMPANY, Anderson, Ind.
Filed September 11, 1922. Serial No. 169,321. PUBLISHED FEBRUARY 13, 1923.

168,182. RUBBER CUSHION TIRES. LAMBERT TIRE & RUBBER COMPANY, Barberton, Ohio.
Filed September 11, 1922. Serial No. 169,309. PUBLISHED JANUARY 30, 1923.

168,183. CLOAKS, WRAPS, AND SUITS FOR LADIES' OUTER WEAR. THE MABLEY & CAREW COMPANY, Cincinnati, Ohio.
Filed September 7, 1922. Serial No. 169,174. PUBLISHED JANUARY 30, 1923.

168,184. METAL-WORKING CYLINDRICAL MILLING TOOLS. THE AUTO-HONE CO., Buffalo, N. Y.
Filed September 7, 1922. Serial No. 169,147. PUBLISHED FEBRUARY 13, 1923.

168,185. CERTAIN NAMED CLOTHING. M. E. BLATT CO., Atlantic City, N. J.
Filed September 6, 1922. Serial No. 169,117. PUBLISHED FEBRUARY 6, 1923.

168,186. HOSIERY, SCARFS, NECKTIES, AND MUFFLERS. NICKELS & LAUBER, INC., Philadelphia, Pa.
Filed September 5, 1922. Serial No. 169,071. PUBLISHED JANUARY 30, 1923.

168,187. WHEAT FLOUR. SAMUEL W. HERSHEY, doing business as S. W. Hershey Flour Mills, York, Pa.
Filed September 1, 1922. Serial No. 168,967. PUBLISHED FEBRUARY 6, 1923.

168,188. LADIES' SUITS, COATS, DRESSES, SKIRTS, AND WAISTS. MORRIS E. DARRISH, doing business as Marvil Garment Company, St. Louis, Mo.
Filed September 1, 1922. Serial No. 168,959. PUBLISHED JANUARY 30, 1923.

168,189. BABBITT, BEARING, AND ANTIFRICTION METALS AND ALLOYS. MAGNOLIA METAL COMPANY, New York, N. Y.
Filed August 31, 1922. Serial No. 168,930. PUBLISHED JANUARY 9, 1923.

168,190. RUBBER TIRES. HENDERSON TIRE & RUBBER CO., INC., Columbus, Ohio, and Buffalo, N. Y.
Filed August 31, 1922. Serial No. 168,926. PUBLISHED JANUARY 30, 1923.

168,191. MAGNIFYING ATTACHMENTS FOR PRINTING TELEGRAPHS. JOHN HARTFORD CHIDESTER, Chatham, N. J.
Filed August 31, 1922. Serial No. 168,918. PUBLISHED FEBRUARY 20, 1923.

168,192. HOSE MADE OF RUBBER REENFORCED WITH FABRIC. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed August 30, 1922. Serial No. 168,884. PUBLISHED JANUARY 30, 1923.

168,193. SHAVING-LATHER FORMING DEVICES. ROBERT HUDSON WAGER, Jersey City, N. J., assignor to The Wager Manufacturing Corporation, Jersey City, N. J., a Corporation of New Jersey.
Filed August 28, 1922. Serial No. 168,815. PUBLISHED FEBRUARY 13, 1923.

168,194. CERTAIN NAMED CLOTHING. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed August 28, 1922. Serial No. 168,802. PUBLISHED FEBRUARY 6, 1923.

168,195. HAIR TONIC. LENNA THERRESS ALEXANDER, Tulsa, Okla.
Filed August 28, 1922. Serial No. 168,745. PUBLISHED FEBRUARY 13, 1923.

168,196. LADIES' HOSIERY. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed June 26, 1922. Serial No. 166,058. PUBLISHED JANUARY 30, 1923.

168,197. INNER TUBES. SOLOMON HERSHENSTEIN, doing business as S. H. Rubber Mfg. Co., New York, N. Y.
Filed June 24, 1922. Serial No. 166,000. PUBLISHED JANUARY 30, 1923.

168,198. LADIES' AND CHILDREN'S FLAT (TEXTILE FABRIC) AND KNITTED UNDERWEAR. JAMES A. HEARN & SON, INC., New York, N. Y.
Filed June 24, 1922. Serial No. 165,993. PUBLISHED JANUARY 30, 1923.

168,199. COMPRESSED ASBESTOS-FIBER SHEET MACHINERY PACKING. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill.
Filed June 13, 1922. Serial No. 165,468. PUBLISHED JANUARY 30, 1923.

168,200. HOPS. A. J. RAY & SON, INC., doing business as Hugo V. Loewi, Inc., Portland, Oreg.
Filed June 12, 1922. Serial No. 165,414. PUBLISHED FEBRUARY 6, 1923.

168,201. CANNED FRUITS AND CANNED VEGETABLES. STARR FRUIT PRODUCTS CO., Portland, Oreg.
Filed June 3, 1922. Serial No. 164,974. PUBLISHED FEBRUARY 6, 1923.

168,202. CORSETS. NATURALINE CORSET COMPANY, Boston, Mass.
Filed May 27, 1922. Serial No. 164,601. PUBLISHED JANUARY 30, 1923.

168,203. COOK BOOK. THE SAALFIELD PUBLISHING COMPANY, Akron, Ohio.
Filed April 24, 1922. Serial No. 162,858. PUBLISHED JANUARY 30, 1923.

168,204. CORK OR CORK COMPOSITION GASKETS, WASHERS, PACKING, AND FRICTION SURFACES IN THE SHEET OR BLOCK. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed April 19, 1922. Serial No. 162,526. PUBLISHED JANUARY 30, 1923.

168,205. CERTAIN NAMED PINS AND NEEDLES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 31, 1922. Serial No. 161,546. PUBLISHED FEBRUARY 6, 1923.

168,206. GARMENT SUPPORTERS. RICHARD J. WATTS, doing business as Watts Mfg. Co., Boston, Mass.
Filed March 17, 1922. Serial No. 160,841. PUBLISHED FEBRUARY 6, 1923.

168,207. HAND LOTION, TOILET WATER, FACE AND TALCUM POWDER, PERFUME, ROUGE, NAIL POLISH, MOUTH WASH, TOOTH PASTE, AND TOOTH POWDERS. CHARLES J. WALLACE, doing business as C. J. Wallace Md. Co., Duluth, Minn., assignor to C. J. Wallace Co., Inc., Duluth, Minn., a Corporation of Minnesota.
Filed January 20, 1922. Serial No. 158,203. PUBLISHED FEBRUARY 13, 1923.

168,208. CERTAIN NAMED CLOTHING. WRIGHT'S UNDERWEAR COMPANY, INC., New York, N. Y.
Filed December 7, 1921. Serial No. 156,424. PUBLISHED JANUARY 30, 1923.

168,209. CERTAIN NAMED CLOTHING. OLYMPIA KNITTING MILLS, INC., Olympia, Wash.
Filed October 1, 1921. Serial No. 153,616. PUBLISHED JANUARY 30, 1923.

168,210. LIQUID MEDICINAL PREPARATION FOR THE TREATMENT OF OPEN WOUNDS OF ANIMALS. FRED PODOWINNIKOFF, Kamsack, Saskatchewan, Canada.
Filed September 1, 1921. Serial No. 152,479. PUBLISHED JANUARY 2, 1923.

168,211. LETTER SHEETS AND MAILING OR CORRESPONDENCE ENVELOPES AND THE LIKE. CHARLES LEWIS BENEDICT, doing business as The "5 in 1" Letter-Envelope Co., Toronto, Ontario, Canada.
Filed August 19, 1921. Serial No. 151,935. PUBLISHED FEBRUARY 13, 1923.

168,212. COATS FOR MEN, WOMEN, AND CHILDREN. ISRAEL L. FREEDMAN, New York, N. Y.
Filed July 5, 1921. Serial No. 150,009. PUBLISHED JANUARY 30, 1923.

168,213. ROOFING CEMENT. THE PIONEER MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 5, 1921. Serial No. 141,870. PUBLISHED FEBRUARY 6, 1923.

168,214. SPECTACLE AND EYEGLASS RIMS. THE STANDARD OPTICAL CO., Geneva, N. Y.
Filed November 9, 1920. Serial No. 139,433. PUBLISHED FEBRUARY 13, 1923.

168,215. MEN'S CLOTHING—NAMELY, SUITS AND OVERCOATS, ETC. CHESTER CLOTHES, INC., New York, N. Y.
Filed October 6, 1920. Serial No. 138,008. PUBLISHED FEBRUARY 6, 1923.

168,216. FABRICS OF SILK, ARTIFICIAL SILK, COTTON, AND COMBINATIONS OF THE SAME. THE H. K. H. SILK CO., Watertown, Conn.
Filed November 24, 1922. Serial No. 172,474. PUBLISHED FEBRUARY 13, 1923.

168,217. REAMERS AND GROOVE CLEANERS. VEDOR-PETERSON COMPANY, Quincy, Mass.
Filed November 23, 1922. Serial No. 172,454. PUBLISHED FEBRUARY 27, 1923.

168,218. SOAP. THE REMILLER CO., New York, N. Y.
Filed November 21, 1922. Serial No. 172,353. PUBLISHED FEBRUARY 20, 1923.

168,219. METAL-WORKING SMALL TOOLS. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio.
Filed November 21, 1922. Serial No. 172,321. PUBLISHED FEBRUARY 27, 1923.

168,220. OIL-WELL DRILLS. JOHN A. ZUBLIN, doing business as Zublin Tool Company, Los Angeles, Calif.
Filed November 20, 1922. Serial No. 172,312. PUBLISHED FEBRUARY 27, 1923.

168,221. ARTIFICIAL SILK, WORSTED, AND MIXED ARTIFICIAL SILK AND WORSTED YARNS. THE TEXTILE MANUFACTURING CO., Chester, Pa.
Filed November 20, 1922. Serial No. 172,299. PUBLISHED FEBRUARY 20, 1923.

168,222. CERTAIN NAMED STATIONERY. HAWKEYE BINDERY COMPANY, Des Moines, Iowa.
Filed November 20, 1922. Serial No. 172,273. PUBLISHED FEBRUARY 13, 1923.

168,223. PIPE WRENCHES. J. H. WILLIAMS & CO., Brooklyn, N. Y.
Filed November 18, 1922. Serial No. 172,249. PUBLISHED FEBRUARY 20, 1923.

168,224. TWINE AND ROPE OR CORDAGE MADE FROM FLAX OR LINEN. THE M. J. GRADY COMPANY, INCORPORATED, New York, N. Y.
Filed November 18, 1922. Serial No. 172,220. PUBLISHED FEBRUARY 13, 1923.

168,225. CERTAIN NAMED TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed November 15, 1922. Serial No. 172,065. PUBLISHED FEBRUARY 20, 1923.

168,226. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed November 14, 1922. Serial No. 171,990. PUBLISHED FEBRUARY 13, 1923.

168,227. FRESH POTATOES, ONIONS, APPLES, AND CARROTS. ABE ROSENBLUM, Brooklyn, N. Y.
Filed November 6, 1922. Serial No. 171,656. PUBLISHED FEBRUARY 20, 1923.

168,228. CATHETERS, ESOPHAGUS TUBES, RECTAL TUBES, AND CUP FUNNELS. WILLIAM WARNE AND COMPANY LIMITED, London, England.
Filed November 4, 1922. Serial No. 171,603. PUBLISHED FEBRUARY 27, 1923.

168,229. REFRIGERATORS. RISTEL MANUFACTURING COMPANY, Los Angeles, Calif.
Filed November 3, 1922. Serial No. 171,553. PUBLISHED FEBRUARY 13, 1923.

168,230. COTTON PIECE GOODS. EDWIN E. BERLINER & CO., New York, N. Y.
Filed November 1, 1922. Serial No. 171,445. PUBLISHED FEBRUARY 13, 1923.

168,231. ANT-POISONING FLUID COMPOUND. UNIVERSAL LABORATORIES, INC., Los Angeles, Calif.
Filed October 28, 1922. Serial No. 171,342. PUBLISHED FEBRUARY 13, 1923.

168,232. HATS FOR MEN, WOMEN, AND CHILDREN AND CAPS FOR MEN AND CHILDREN.. M. ALPEROWITZ & SON, Chicago, Ill.
Filed October 27, 1922. Serial No. 171,246. PUBLISHED FEBRUARY 20, 1923.

168,233. TOILET PREPARATIONS—VIZ, TOILET CLAY. JOHN H. MARTIN, doing business as Dermevel Laboratories, New York, N. Y.
Filed October 25, 1922. Serial No. 171,180. PUBLISHED FEBRUARY 13, 1923.

168,234. CERTAIN NAMED TOILET PREPARATIONS. RICHARD HUDNUT, New York, N. Y.
Filed October 25, 1922. Serial No. 171,171. PUBLISHED FEBRUARY 13, 1923.

168,235. CHEMICAL PREPARATION FOR PURIFYING THE AIR AND FOR CLEANING AND DISINFECTING PURPOSES. B. HELLER & COMPANY, Chicago, Ill.
Filed October 24, 1922. Serial No. 171,124. PUBLISHED FEBRUARY 13, 1923.

168,236. HOSIERY. THE POWELL KNITTING COMPANY, Philadelphia, Pa.
Filed June 29, 1922. Serial No. 166,254. PUBLISHED JANUARY 30, 1923.

168,237. PISTON OR PACKING RINGS. UNICO MOTOR PRODUCTS CORPORATION, St. Louis, Mo.
Filed June 30, 1922. Serial No. 166,333. PUBLISHED JANUARY 30, 1923.

168,238. PRINTERS' AND BOOKBINDERS' SUPPLIES. THE HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis.
Filed July 18, 1922. Serial No. 167,043. PUBLISHED FEBRUARY 13, 1923.

168,239. MONTHLY MAGAZINE. NATIONAL ASSOCIATION OF ELECTRICAL CONTRACTORS AND DEALERS, New York, N. Y.
Filed July 18, 1922. Serial No. 167,052. PUBLISHED JANUARY 30, 1923.

168,240. RUBBER TIRES. OVERMAN CUSHION TIRE COMPANY, INC., New York, N. Y.
Filed July 19, 1922. Serial No. 167,091. PUBLISHED JANUARY 30, 1923.

168,241. RUBBER TIRES. OVERMAN CUSHION TIRE COMPANY, INC., New York, N. Y.
Filed July 19, 1922. Serial No. 167,093. PUBLISHED JANUARY 30, 1923.

168,242. RUBBER TIRES. OVERMAN CUSHION TIRE COMPANY, INC., New York, N. Y.
Filed July 19, 1922. Serial No., 167,094. PUBLISHED JANUARY 30, 1923.

168,243. RUBBER TIRES. OVERMAN CUSHION TIRE COMPANY, INC., New York, N. Y.
Filed July 19, 1922. Serial No. 167,095. PUBLISHED JANUARY 30, 1923.

168,244. CERTAIN NAMED PAPER. L. HYMAN & SONS, New York, N. Y.
Filed July 20, 1922. Serial No. 167,127. PUBLISHED FEBRUARY 13, 1923.

168,245. LYE. WM. SCHIELD MFG. CO., St. Louis, Mo.
Filed July 22, 1922. Serial No. 167,270. PUBLISHED FEBRUARY 13, 1923.

168,246. HOSIERY. JOSEPH C. BOSSONG, doing business as J. C. Bossong & Co., New York, N. Y.
Filed August 3, 1922. Serial No. 167,765. PUBLISHED JANUARY 30, 1923.

168,247. CIGARETTES. TOBACCO PRODUCTS CORPORATION, New York, N. Y.
Filed January 9, 1923. Serial No. 174,371. PUBLISHED FEBRUARY 27, 1923.

168,248. FISHING LINES. NEWTON LINE COMPANY INCORPORATED, Homer, N. Y.
Filed December 21, 1922. Serial No. 173,669. PUBLISHED FEBRUARY 27, 1923.

168,249. SHOE BRUSHES. PARKS & PARKS, INC., Troy, N. Y.
Filed December 18, 1922. Serial No. 173,528. PUBLISHED FEBRUARY 27, 1923.

168,250. BROOMS. GREENUP BROOM CO. INC., Greenup, Ill.
Filed December 16, 1922. Serial No. 173,418. PUBLISHED FEBRUARY 27, 1923.

168,251. SOFT DRINKS. PARK & TILFORD, New York, N. Y.
Filed December 6, 1922. Serial No. 173,003. PUBLISHED FEBRUARY 27, 1923.

168,252. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. GERSTENDORFER BROS., New York, N. Y.
Filed December 5, 1922. Serial No. 172,938. PUBLISHED FEBRUARY 13, 1923.

168,253. LOOSE-LEAF LEDGERS. NATIONAL BLANK BOOK CO., Holyoke, Mass.
Filed November 25, 1922. Serial No. 172,548. PUBLISHED FEBRUARY 27, 1923.

168,254. SHOE-SHINING BRUSHES. WALLIN MFG. CO., St. Paul, Minn.
Filed November 20, 1922. Serial No. 172,306. PUBLISHED FEBRUARY 27, 1923.

168,255. CIGARETTES. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed November 14, 1922. Serial No. 171,979. PUBLISHED FEBRUARY 27, 1923.

168,256. CIGARETTES. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed November 14, 1922. Serial No. 171,978. PUBLISHED FEBRUARY 27, 1923.

168,257. SOFT DRINKS. NEW ENGLAND BREWING COMPANY, doing business as Haffenreffer & Co., Boston, Mass., and Jersey City, N. J.
Filed November 6, 1922. Serial No. 171,651. PUBLISHED FEBRUARY 27, 1923.

168,258. SOFT DRINKS. ABECO BEVERAGE COMPANY, Boston, Mass.
Filed November 6, 1922. Serial No. 171,605. PUBLISHED FEBRUARY 27, 1923.

168,259. MEN'S, BOYS', AND CHILDREN'S CAPS. JACKOWAY & KATS CAP CO., St. Louis, Mo.
Filed October 25, 1922. Serial No. 171,174. PUBLISHED FEBRUARY 13, 1923.

168,260. PLAYING CARDS. THE NEW YORK CONSOLIDATED CARD CO., Long Island City, N. Y.
Filed October 21, 1922. Serial No. 171,027. PUBLISHED FEBRUARY 27, 1923.

168,261. SIRUP FOR SOFT DRINKS. EDWIN M. BLUMENTHAL, doing business as E. M. Blumenthal & Company, Chicago, Ill.
Filed October 13, 1922. Serial No. 170,677. PUBLISHED FEBRUARY 27, 1923.

168,262. RUBBER BOOTS AND SHOES. LA CROSSE RUBBER MILLS CO., La Crosse, Wis.
Filed October 9, 1922. Serial No. 170,492. PUBLISHED FEBRUARY 27, 1923.

168,263. FABRIC GLOVES. V. PERRIN & CIE., Grenoble, France, London, England, and New York, N. Y.
Filed October 10, 1922. Serial No. 170,539. PUBLISHED FEBRUARY 20, 1923.

168,264. LEATHER SHOES. CAMMEYER, New York, N. Y.
Filed October 4, 1922. Serial No. 170,272. PUBLISHED FEBRUARY 27, 1923.

168,265. LEATHER BOOTS AND SHOES. B. E. COLE CO., INC., Haverhill, Mass.
Filed September 29, 1922. Serial No. 170,055. PUBLISHED FEBRUARY 27, 1923.

168,266. RUBBER HEELS. ECLIPSE SHOE MANUFACTURING COMPANY, Mexico, Mexico.
Filed September 20, 1922. Serial No. 169,706. PUBLISHED FEBRUARY 27, 1923.

168,267. SHOES MADE OF LEATHER. THE FOUNDATION SALES CORPORATION, New York, N. Y.
Filed September 12, 1922. Serial No. 169,353. PUBLISHED FEBRUARY 20, 1923.

168,268. WEEKLY PERIODICAL. F. P. FIELDS, INC., Fort Worth, Tex.
Filed August 4, 1922. Serial No. 167,807. PUBLISHED JANUARY 30, 1923.

168,269. SAFETY-RAZOR-BLADE STROPPING HOLDERS. ROLAND T. PARKER, New York, N. Y.
Filed August 7, 1922. Serial No. 167,924. PUBLISHED FEBRUARY 13, 1923.

168,270. BRAKE LINING. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed August 11, 1922. Serial No. 168,091. PUBLISHED JANUARY 30, 1923.

168,271. ATTACHMENT FOR AUTOMATICALLY CONTROLLING THE CARBURETOR AND INDICATING THE TEMPERATURE OF INTERNAL-COMBUSTION ENGINES. THE WEDLER-SHUFORD COMPANY, St. Louis, Mo.
Filed August 12, 1922. Serial No. 168,187. PUBLISHED FEBRUARY 13, 1923.

168,272. MAGAZINE ISSUED MONTHLY. FIELDING PUBLISHING COMPANY, Boston, Mass.
Filed August 21, 1922. Serial No. 168,522. PUBLISHED JANUARY 30, 1923.

168,273. HOSIERY OF ALL KINDS. THE BENJAMIN MOSELEY CO., Needham, Mass.
Filed August 21, 1922. Serial No. 168,543. PUBLISHED JANUARY 30, 1923.

168,274. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER AND FABRIC GLOVES, HOSIERY, AND UNDERWEAR. THE MONTROSE GLOVE INC., Brooklyn, N. Y.
Filed August 22, 1922. Serial No. 168,584. PUBLISHED FEBRUARY 6, 1923.

168,275. KNITTED OUTERWEAR. YUND, KENNEDY & YUND, Amsterdam, N. Y.
Filed August 24, 1922. Serial No. 168,657. PUBLISHED FEBRUARY 13, 1923.

168,276. HAIR TONIC, TOILET WATERS, COLOGNES, AND COLD CREAMS. GEORGE PAGONIS, doing business as George Pagonis Co., New York, N. Y.
Filed August 26, 1922. Serial No. 168,725. PUBLISHED FEBRUARY 13, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

168,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOMINICK SWEET (trading as The Sweet Manufacturing Company), North Side Pittsburgh, Pa. Filed Oct. 17, 1922. Serial No. 170,839.

SWEET'S

Particular description of goods.—Aspirin Tablets, Cough Balsam, Linden Balsam (Cough Medicine), Bromo Tablets, Castoria, Blood Tea (Liver, Kidney, and Stomach Regulator), Hergo Pills (Medicine for Amenorrhea, Dysmenorrhea, Etc.), Healthspiria (General System Tonic), Beautifying Cream, Beaver Drops (Remedy for Digestion, Nervousness, Neuralgia Pains, Etc.), Toothache Drops, Colic and Cramp Drops, Tr. Valerian, Stomach Drops, Lax Tablets (Laxative), Catarrh Remedy, Eye Remedy, Corn Remedy, Rheumatic Preparation, Lice Exterminator (Lice Killer), Zinc-Oxide Ointment, General Healing Salve (Salve for Cuts and Sores), Pain Expeller (Liniment for Muscular Rheumatism, Sprains, Stiff Neck, Etc.), Cathartic Pills, Shaving Lotion (Skin Lotion), Hair Pomade, Headache Powders, Foot Powder, Regulator (Tonic for Female Weakness), Shampoo, Soothing Sirup (Medicine for Babies), Headache Tablets, Blood Tablets, Mintolax Tablets (Laxative), Cold Tablets, To-An-Ka (Medicine for Indigestion, Colic and Cramps, Etc.), Nux Iron (General Tonic), Comfrey Liniment (Liniment for Muscular Rheumatism, Sprains, Muscular Soreness, Etc.), and Hair Tonic.
Claims use since 1912.

168,278. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CROGAN MANUFACTURING COMPANY, Bangor, Me. Filed Oct. 11, 1922. Serial No. 170,567.

ONE-MAN

Particular description of goods.—Measuring Tapes.
Claims use since Feb. 19, 1920.

168,279. (CLASS 39. CLOTHING.) LOUIS MEYERS & SON, New York, N. Y. Filed Aug. 25, 1922. Serial No. 168,685.

MEYERS
LYKA-MOKA

Particular description of goods.—Fabric Gloves for Men, Women, and Children.
Claims use since Aug. 6, 1921.

168,280. (CLASS 39. CLOTHING.) SAMUEL MILLER, doing business as Samuel Miller & Company, New York, N. Y. Filed Aug. 25, 1922. Serial No. 168,684.

The Packard
S M & CO. Reg.

Particular description of goods.—Hats for Men and Boys.
Claims use since Jan. 1, 1922.

168,281. (CLASS 39. CLOTHING.) MODISHFORM BRASSIERE, INC., New York, N. Y. Filed July 22, 1922. Serial No. 167,262.

Modishform

Particular description of goods.—Brassières and Corsets.
Claims use since Jan. 1, 1922.

168,282. (CLASS 39. CLOTHING.) JOHN & JAMES DOBSON, INC., New York, N. Y. Filed June 10, 1922. Serial No. 165,290.

Dobson's
CARACUL
CLOTH

Particular description of goods.—Coats for Ladies and Misses.
Claims use since Mar. 1, 1922.

168,283. (CLASS 39. CLOTHING.) CRESCENT SHOE CO., New York, N. Y. Filed May 22, 1922. Serial No. 164,230.

DR·COPLAND'S
HEALTH SHOE

Particular description of goods.—Men's, Women's, and Children's Shoes, Ties, Pumps, Sandals, and Sneakers, Rubbers, Rubber Boots, Bathing Shoes, Slippers, and Moccasins.
Claims use since Jan. 1, 1920.

168,284. (CLASS 39. CLOTHING.) AMSTERDAM & SACHS, INC., New York, N. Y. Filed May 16, 1922. Serial No. 163,918.

Amsterdam

Particular description of goods.—Ladies' Cloaks and Wraps.
Claims use since Mar. 15, 1922.

168,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. R. MONTAGUE COMPANY, La Crosse, Wis. Filed Mar. 31, 1922. Serial No. 161,571.



Particular description of goods.—Candy.
Claims use since June, 1913.

168,286. (CLASS 39. CLOTHING.) WILLIAM KLEINBERG, Rochester, N. Y. Filed Jan. 30, 1922. Serial No. 158,622.

Betty Radcliffe

Particular description of goods.—Topper Coats.
Claims use since Aug. 1, 1920.

168,287. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NU-SHYNE SOPE-OLISH CO., Philadelphia, Pa. Filed Dec. 8, 1921. Serial No. 156,460.

Nu Shyne
SOPE OLISH

Particular description of goods.—Polishes for Automobile Bodies, Furniture, Pianos, Talking Machines, and Varnished or Painted Surfaces Generally.
Claims use since Sept. 1, 1921.

168,288. (CLASS 27. HOROLOGICAL INSTRUMENTS.) CHELSEA CLOCK COMPANY, Chelsea and Boston, Mass. Filed Dec. 1, 1921. Serial No. 156,147.

CHELSEA

Particular description of goods.—Time-Indicating, Time-Keeping, and Time-Recording Instruments—viz, Clocks, Clock Movements, and Clockwork Mechanisms for Performing a Specified Function or Doing a Specified Act at a Predetermined Time or Times.
Claims use since on or about Sept. 1, 1897.

168,289. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BOSTON CLOCK COMPANY, Boston, Mass. Filed Dec. 1, 1921. Serial No. 156,144.

BOSTON

Particular description of goods.—Time-Indicating, Time-Keeping, and Time-Recording Instruments—viz, Clocks, Clock Movements, and Clockwork Mechanisms for Performing a Specified Function or Doing a Specified Act at a Predetermined Time or Times.
Claims use since July 14, 1909.

168,290. (CLASS 39. CLOTHING.) WALTER C. TAYLOR, Hickory, N. C. Filed Nov. 30, 1921. Serial No. 156,119.

"Taylor Made"

Particular description of goods.—Hosiery.
Claims use since October, 1919.

168,291. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 155,222.



Particular description of goods.—Hats for Men and Boys.
Claims use since May, 1913.

168,292. (CLASS 39. CLOTHING.) KATHARINE FISK, Los Angeles, Calif. Filed Oct. 20, 1921. Serial No. 154,359.

Boodwar Band-O

Particular description of goods.—Boudoir Bandeaux.
Claims use since Sept. 1, 1921.

168,293. (CLASS 39. CLOTHING.) PEERLESS KNITTING CO., Milwaukee, Wis. Filed Sept. 6, 1921. Serial No. 152,652.

Peerless

Particular description of goods.—Sweaters.
Claims use since Oct. 1, 1920.

168,294. (CLASS 39. CLOTHING.) D. M. OBERMAN MFG. CO., Jefferson City, Mo. Filed Apr. 22, 1921. Serial No. 146,581.

Big Bilt

Particular description of goods.—Overalls, Jackets, and Combination Outer Suits.
Claims use since Apr. 1, 1921.

168,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. SCOTT, doing business as Scott's Laboratories, Chicago, Ill. Filed Nov. 9, 1922. Serial No. 171,765.

Scott's

Particular description of goods.—Face Cream, Face Powder, Talcum Powder, Rouge, Face-Powder Compact, Lip Sticks, Eyebrow Pencils, Liquid Dandruff Remover, Hair Tonic; Liquid Brilliantine, a Hair Dressing; Jelly Brilliantine, a Hair Dressing; Bandolite, a Paste Used as a Hair Fixative; Liquid Hair Coloring, Liquid Hand Lotion, Liquid Nail Polish, Manicure Oil, Nail Bleach (Dry and Paste), Cuticle Cream, Astringent Lotion, Liquid Skin Bleach, Liquid Face Powder, Depilatory Powder, Toilet Waters.
Claim use since 1910.

168,296. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUPLICATE WHIST COMPANY, Cincinnati, Ohio, assignor to The United States Playing Card Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 9, 1923. Serial No. 175,775.

The Duplicate Whist Co.

Particular description of goods.—Replay Card Game Apparatus.
Claims use since about June 15, 1899.

168,297. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FIRESIDE GAME COMPANY, Cincinnati, Ohio, assignor to The United States Playing Card Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 9, 1923. Serial No. 175,780.

THE FIRESIDE GAME CO.

Particular description of goods.—Card Games.
Claims use since about Nov. 22, 1895.

168,298. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REPUBLIC VARNISH COMPANY, Newark, N. J. Filed Mar. 7, 1923. Serial No. 177,106.

Neverbreak

Particular description of goods.—Ready-Mixed Paint, Varnish, and Paint Enamel.
Claims use since January, 1922.

168,299. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES. BENIGNO R. LEMES, New York, N. Y. Filed Mar. 2, 1923. Serial No. 176,840.

EXPRESS

Particular description of goods.—Automatic Pistols, Revolvers, Shotguns, and Rifles.
Claims use since Mar. 22, 1922.

168,300. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DE ZENG STANDARD CO., Camden, N. J. Filed Feb. 24, 1923. Serial No. 176,540.

Flashlight

Particular description of goods.—Diagnostic Medical Instruments—Namely, Otoscopes, Laryngoscopes, Cystoscopes, Proctoscopes, Bronchoscopes, Tongue Depressors, Mouth Gags, and Specula.
Claims use since May 21, 1921.

168,301. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES L. POOR CO., New York, N. Y. Filed Feb. 17, 1923. Serial No. 176,213.



Particular description of goods.—Cotton Piece Goods.
Claims use since May 7, 1921.

168,302. (CLASS 11. INKS AND INKING MATERIALS.) THE AMERICAN PRINTING INK COMPANY, Cincinnati, Ohio. Filed Feb. 8, 1923. Serial No. 175,695.

THE AMERICAN PRINTING INK CO.

Particular description of goods.—Printing Inks.
Claims use since May 28, 1904.

168,303. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOMERSVILLE MANUFACTURING CO., Somersville, Conn. Filed Feb. 6, 1923. Serial No. 175,626.

Scantic Fabrics

Particular description of goods.—Woolen Fabrics.
Claims use since January, 1920.

168,304. (CLASS 15. OILS AND GREASES.) LEONARD E. VAN DRUFF, doing business as Capital City Oil Company, Council Bluffs, Iowa. Filed Jan. 15, 1923. Serial No. 174,608.

RED GIANT OIL

Particular description of goods.—Fuel Oils, Illuminating Oils, Lubricating Oils and Greases.
Claims use since Jan. 1, 1917.

168,305. (CLASS 45. BEVERAGES, NONALCOHOLIC.) GOOD-GRAPE COMPANY, Chattanooga, Tenn. Filed Jan. 13, 1923. Serial No. 174,572.

Good Grape

Particular description of goods.—A Nonalcoholic, Maltless Grape Drink.
Claims use since January, 1922.

168,306. (CLASS 17. TOBACCO PRODUCTS.) THE KHEDIVAL COMPANY, New York, N. Y. Filed Jan. 9, 1923. Serial No. 174,363.

DEMETRIO

Particular description of goods.—Cigarettes.
Claims use since 1902.

168,307. (CLASS 39. CLOTHING.) ESSEX RUBBER COMPANY, Trenton, N. J. Filed Jan. 3, 1923. Serial No. 174,131.

TITE-EDGE

Particular description of goods.—Rubber Soles and Heels.
Claims use since May 29, 1917.

168,308. (CLASS 39. CLOTHING.) THE BERGER BROTHERS COMPANY, New Haven, Conn. Filed Dec. 22, 1922. Serial No. 173,694.

SPENCER

Particular description of goods.—Corsets.
Claims use for not less than one year.

168,309. (CLASS 39. CLOTHING.) W. C. SMITH GLOVE CO. INC., Gloversville, N. Y. Filed Dec. 19, 1922. Serial No. 173,583.

Higrade Handwear

Particular description of goods.—Gloves and Mittens for Men, Women, and Children.
Claims use since Nov. 1, 1921.

168,310. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARA R. GLASSMIER, doing business as Infallible Hair Color Restorer Co., Philadelphia, Pa. Filed Dec. 13, 1922. Serial No. 173,282.

INFALLIBLE

Particular description of goods.—A Preparation for Restoring Hair.
Claims use since Feb. 4, 1898.

168,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 17, 1922. Serial No. 172,159.

$1000.00 GUARANTEED OZO TOILET CLEANER
REG. U.S. PAT. OFF.

Particular description of goods.—A Toilet-Bowl or Privy Cleaner.
Claims use since January, 1922.

168,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SODIPHENE COMPANY, Kansas City, Mo. Filed Nov. 11, 1922. Serial No. 171,874.

Sodiphene
First Aid for the Family

Particular description of goods.—Antiseptic Germicide.
Claims use for not less than one year.

LABELS

REGISTERED MAY 15, 1923.

25,925.—*Title:* AMERICAN BEAUTY. For Tin Cans Containing Shrimp. BILOXI PACKING AND TRADING COMPANY, INC., Biloxi, Miss. Published October 14, 1922.

25,926.—*Title:* NILE QUEEN. For Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Published May 6, 1921.

25,927.—*Title:* CHEESE-TREATS. For Cheese. WALTER FRANK, Milwaukee, Wis. Published August 18, 1922.

25,928.—*Title:* MARY FRASER CANDIES. For Candies. MARY FRASER CANDIES, INC., Los Angeles, Calif. Published April 11, 1923.

25,929.—*Title:* FRIGID FRUITS. For Frozen Candy Confection. FRIGID FRUITS CORPORATION, Nashville, Tenn. Published March 1, 1923.

25,930.—*Title:* BOND BREAD. For Bread. EMILE FRISCH, Chicago, Ill. Published March 15, 1923.

25,931.—*Title:* NO. 2 TRU LITE ACME. For Lamp Chimneys. GILL BROTHERS COMPANY, Steubenville, Ohio. Published March 2, 1923.

25,932.—*Title:* NO. 2 TRU LITE O K. For Lamp Chimneys. GILL BROTHERS COMPANY, Steubenville, Ohio. Published March 2, 1923.

25,933.—*Title:* CORONA DEL JAVA. For Cigars. A. C. HENSCHEL & CO., Chicago, Ill. Published April 1, 1923.

25,934.—*Title:* WILLIAM BURDELL. For Cigars. A. C. HENSCHEL & CO., Chicago, Ill. Published April 1, 1923.

25,935.—*Title:* CHOCOLATE COVERED CHERRIES. For a Pasteboard Box Containing an Article of Confectionery. HOPEWELL CHOCOLATE COMPANY, INC., Hopewell, N. J. Published April 2, 1923.

25,936.—*Title:* WOOLY-LAMB. For Infants' Hose. HUB HOSIERY MILLS, Boston, Mass. Published February 7, 1923.

25,937.—*Title:* JAY-KAY KHAKI. For Cotton Piece Goods, Khaki Colored. JENKINS, KREER & CO., INC., Chicago, Ill. Published April 17, 1923.

25,938.—*Title:* KELLOGG'S CORN FLAKES. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published April 2, 1923.

25,939.—*Title:* KELLOGG'S BRAN. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published April 2, 1923.

25,940.—*Title:* MAYFLOWER-BRAND. For Malt Extract. SAMUEL KREPSTMAN, doing business as American Malt Products Co., New York, N. Y. Published December 19, 1922.

25,941.—*Title:* WHITE PINE EXPECTORANT. For Cough Sirup. NICHOLAS V. KSOMBI, Paterson, N. J. Published March 1, 1923.

25,942.—*Title:* NEO. For a Preparation for Destroying Bugs. MAX ROBINS, doing business as Maxime Drug Co., Chicago, Ill. Published April 11, 1923.

25,943.—*Title:* ROGERS DEVELOPING POWDERS. For Containers for a Powder for the Developing of Latent Prints. WM. J. ROGERS, doing business as The Rogers Laboratory, St. Paul, Minn. Published August 1, 1922.

25,944.—*Title:* VEGETONE. For Stomach Relief Remedy. EMIL E. STEINER, Glendale, Calif. Published February 23, 1923.

25,945.—*Title:* UNITED STATES BRONZE POWDER WORKS. For Bronze Powder. UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y. Published February 27, 1923.

25,946.—*Title:* UNITED STATES BRONZE POWDER WORKS. For Bronze Powder. UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y. Published February 27, 1923.

25,947.—*Title:* ANTI-FOULING BOAT BOTTOM PAINT. For Boat Paint. WESTCOTT, SLADE AND BALCOM COMPANY, Providence, R. I. Published April 3, 1923.

25,948.—*Title:* POM-PO-LAY. For Preparation Suitable for the Treatment of the Hair. GEORGE H. WEYER, St. Joseph, Mo. Published March 10, 1923.

PRINTS

REGISTERED MAY 15, 1923.

6,703.—*Title:* HARTMANN CUSHION TOP WARDROBE TRUNKS. For Wardrobe Trunks. HARTMANN TRUNK COMPANY, Racine, Wis. Published April 7, 1923.

6,704.—*Title:* HAYNES. For Automobiles. THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Published April 7, 1923.

6,705.—*Title:* ASK FOR THE HIRSCHNET. For Hair Nets. HIRSCH'S HAIR BAZAAR INC., St. Louis, Mo. Published November 15, 1922.

6,706.—*Title:* KIRK'S COCOA HARDWATER CASTILE. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published April 17, 1923.

6,707.—*Title:* WE SELL DR. LAWTON'S GUARANTEED FAT REDUCER. For Surgical Appliances. THOMAS LAWTON, New York, N. Y. Published October 1, 1921.

6,708.—*Title:* FACE TO FACE. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published April 20, 1923.

6,709.—*Title:* NEO BUG DESTROYER. For a Preparation for Destroying Bugs. MAX ROBINS, doing business as Maxime Drug Co., Chicago, Ill. Published April 11, 1923.

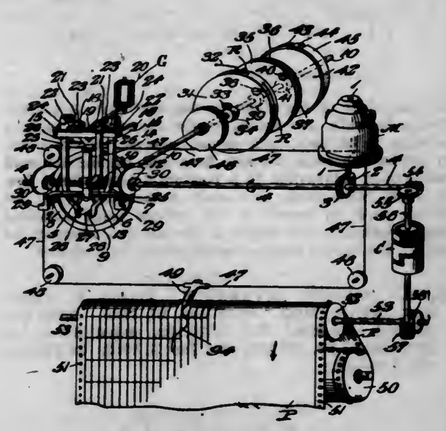
6,710.—*Title:* THERMALENE GAS FOR CUTTING & WELDING. For Generators for Producing Gas. THERMALENE GAS CORPORATION, Kankakee, Ill. Published October 26, 1922.

6,711.—*Title:* WHITE TRUCKS. For Motor Trucks. THE WHITE COMPANY, Cleveland, Ohio. Published November 24, 1922.

REISSUES.

MAY. 15, 1923.

15,597. MEASURING AND INDICATING APPARATUS. HENRY BREWER, Wilmette, Ill., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1922. Serial No. 604,089. Original No. 1,361,862, dated Dec. 7, 1920, Serial No. 278,406, filed Feb. 21, 1919. 76 Claims. (Cl. 234—5.5.)



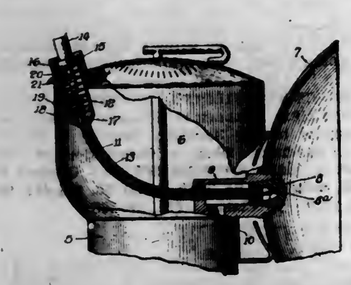
49. The combination with a galvanometer, of a source of power, variable electrical means and a plurality of electrical devices adapted severally to co-operate with said means to control said galvanometer, said means varied by said source of power under control of said galvanometer, means for bringing said devices successively into co-operation with said first named means, means for indicating which of said devices is co-operating with said first named means, an instrument for making indications respecting conditions of said devices, and a marker actuated by said source of power under control of said galvanometer to produce a record related to the indications of said instrument.

59. The combination with a temperature responsive device, of a movable structure controlled thereby, a Wheatstone bridge having two arms movable with said structure, a fixed contact associated with said two arms, and a galvanometer associated with said Wheatstone bridge.

68. The combination with a device responsive to changes in magnitude of a condition, of a plurality of signals for indicating different magnitudes of said condition, means controlled by said device for controlling said signals individualy, and a galvanometer controlled by said means for indicating different magnitudes of said condition.

15,598. CLEANER FOR BURNERS OF CARBIDE LAMPS AND THE LIKE. JACOB W. JACOBSON and JOHN EMIL TURJA, Hancock, Mich., assignors, by mesne assignments, to Grier Brothers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 8, 1922. Serial No. 559,480. Original No. 1,397,170, dated Nov. 15, 1921, Serial No. 407,983, filed Sept. 3, 1920. 13 Claims. (Cl. 158—120.)

8. In combination with a carbide lamp or the like, comprising a gas compartment, a water compartment above said gas compartment, a burner tube at the front of the lamp and adjacent the bottom of the water compartment, said tube communicating with the gas compartment, and a burner tip in the outer end of said tube, of a cleaning device comprising a tube extending through the water



compartment and having one end opening into the burner tube and the other end opening through a wall of the water compartment, a flexible wire in said tube having its operative end normally located opposite to and slightly in rear of the burner tip opening, and an operating member attached to the opposite end of said wire.

15,599. AXLE BEARING. JOSEPH D. CITÉ, Dayton, Ohio, assignor, by mesne assignments, to The Bahmann Iron Works Company, Dayton, Ohio, a Corporation of Massachusetts. Filed Aug. 1, 1922. Serial No. 579,047. Original No. 1,200,511, dated Jan. 7, 1919, Serial No. 196,821, filed Oct. 12, 1917. 4 Claims. (Cl. 105—223.)

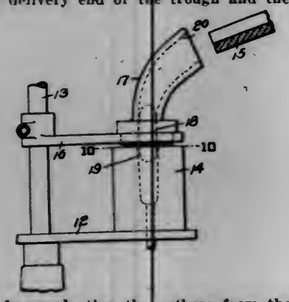


1. The combination with a car axle, of a bearing therefor consisting of a housing the interior top and side walls thereof being of a substantially spherical form and the bottom portion thereof being open, and an inner bearing member of spherical form within said housing, the lower side of said inner bearing member being uninclosed at the bottom of the housing whereby it is subject to a universal movement within the housing with a substantial curtailment of frictional engagement with said housing.

15,600. PROCESS OF AND APPARATUS FOR FEEDING MOLTEN GLASS. WILLIAM A. LORENZ, Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Mar. 16, 1920. Serial No. 366,443. Original No. 1,300,161, dated Apr. 8, 1919, Serial No. 184,875, filed Aug. 7, 1917. 20 Claims. (Cl. 49—14.)

1. In an apparatus for handling gathers of molten glass the combination with a conducting trough and a

shaping mold of a curved inclosing funnel located between the delivery end of the trough and the mouth of



the mold for conducting the gathers from the trough to the mold and shaping them while being so conducted.

15,601. DEVICE FOR FILLING CENTRIFUGAL CASTING MACHINES. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Sandusky Foundry & Machine Company, Sandusky, Ohio, a Corporation of Ohio. Filed Oct. 4, 1921. Serial No. 506,806. Original No. 1,047,972, dated Dec. 24, 1912, Serial No. 671,457, filed Jan. 16, 1912. 10 Claims. (Cl. 22—65.)



1. A filling device for centrifugal casting machines comprising a closed trough arranged to be rotated and having a discharge opening through one side thereof shorter than the trough and through which the molten metal is discharged into the interior of the machine and having a feed hole, longitudinally spaced from the discharge opening, the trough being closed between the feed hole and discharge opening.

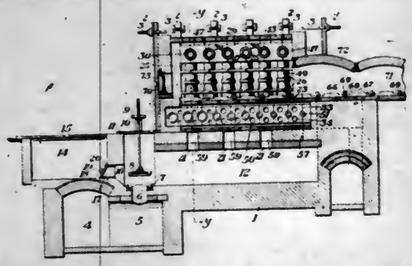
15,602. PROCESS OF MAKING ARTIFICIAL LEATHER. ROLAND B. RESPESS, New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I., a Corporation of Rhode Island. Filed Apr. 4, 1923. Serial No. 629,934. Original No. 1,416,064, dated May 16, 1922, Serial No. 306,453, filed June 24, 1919. 5 Claims. (Cl. 91—68.)



1. The herein described process of making artificial leather consisting in saturating a felted fabric under pressure with a binding agent to form a sheet, drying the sheet, pressing under tension and coating the surface of the sheet with a leather dressing.

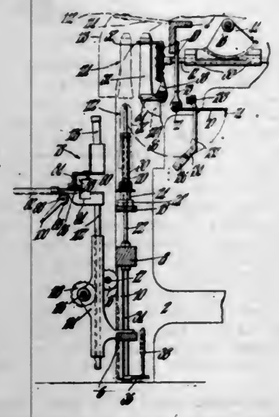
15,603. LEER. LEWIS STEELMAN, Millville, N. J., assignor to H. L. Dixon Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 7, 1923. Serial No. 623,531. Original No. 1,178,549, dated Apr. 11, 1916, Serial No. 873,021, filed Nov. 19, 1914. 32 Claims. (Cl. 49—46.)

31. An annealing leer for hot glass articles, comprising a heated furnace portion at the entry end of the leer and a tunnel portion having a gradually decreasing temperature extending therefrom to the exit end of the leer, the leer being arranged for continuous movement of the articles through the heated and tunnel portions to anneal the same in a gradually decreasing temperature, the furnace portion comprising a muffle chamber with an open end leading into the tunnel extension, flues surrounding the muffle portion of the leer chamber in which the articles to be annealed are placed, the side portions of which consist of a plurality of vertically extending flues, said flues being formed of interlocking tiles, an air and gas supply to the flue system, connections within the furnace structure for directing the flame and products therefrom substantially evenly



on both sides of the muffle in the side flues, a conduit system beneath the heated muffle chamber in heating relation to its floor, said system receiving the products of combustion from the side flues and leading the said products of combustion in a horizontal longitudinal flow to stack connections, said stack connections being out of the path of travel of the articles being annealed and intermediate the length of the leer and adjacent the end of the heated portion, substantially as described.

15,604. DOFFING APPARATUS. EUGENE R. ALDERMAN, Holyoke, Mass. Filed Mar. 15, 1923. Serial No. 625,384. Original No. 1,419,192, dated June 13, 1922, Serial No. 527,124, filed Jan. 5, 1922. 24 Claims. (Cl. 118—18.)

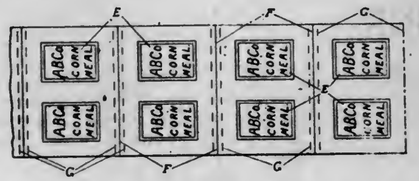


1. The combination with a cap spinning machine having spindles and caps supported thereon, of doffing mechanism comprising annular members for loosely embracing the upper portions of said caps, and means for supporting the caps by engagement with the lower edges thereof in removing the caps from the spindles.

15,605. BAG FORM. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Mar. 1, 1923. Serial No. 622,216. Original No. 1,333,374, dated Mar. 9, 1920, Serial No. 285,697, filed Mar. 27, 1919. 9 Claims. (Cl. 283—1.)

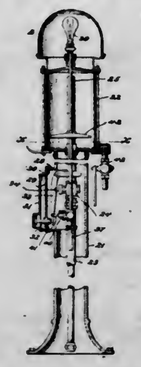
1. A fluid pressure device, comprising a casing, a main piston movable therein and formed to provide an oil

reservoir to contain a constant supply of oil, a pump cylinder carried by the main piston and providing a pump chamber, a hollow plunger connected to the casing and operating in the cylinder, an air inlet into the



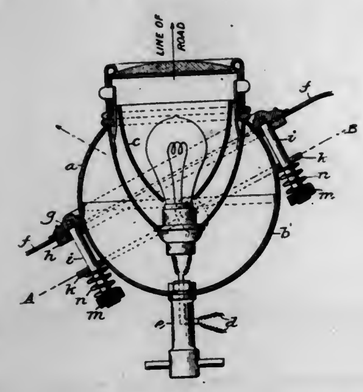
pump chamber, and a restricted opening forming a constant communication between the oil reservoir and pump cylinder under all working conditions, whereby to retard the flow of oil between the reservoir and pump chamber with respect to any pump action.

15,606. LIQUID DISPENSING APPARATUS. AUGUSTUS BOWSER, deceased, late of Fort Wayne, Ind., by Colte H. Boléns and Charles S. Fair, administrators, Fort Wayne, Ind. Filed Jan. 25, 1921. Serial No. 439,881. Original No. 1,316,557, dated Sept. 23, 1919, Serial No. 256,795, filed Oct. 4, 1918. 10 Claims. (Cl. 221—74.)



1. In dispensing apparatus of the class described, including a reservoir and an auxiliary tank and a siphon arranged for supplying the latter from the former, the siphon having a foot-valve, a dispensing head including a stand and a transparent measure and an overflow pipe for the measure communicating with the reservoir, a supply pipe extending through the stand and having a throttle-valve located therein, means for alternately supplying air under pressure to the auxiliary tank and releasing it therefrom and including an electric switch for controlling the same located in the stand, and means for simultaneously actuating the throttle-valve and switch.

15,607. DEVICE FOR MOUNTING HEADLIGHTS ON THE BODIES OF MOTOR CARS. ANDRÉ VALLOT, Levallois-Perret, France, assignor, by direct and mesne assignments, of one-half to Herbert E. Vanderveer, Pueblo, Colo., and one-half to A. K. McRae, Denver, Colo. Filed July 25, 1922. Serial No. 577,479. Original No. 1,408,149, dated Feb. 28, 1922, Serial No. 791,094, filed Sept. 22, 1913. 18 Claims. (Cl. 240—7.)

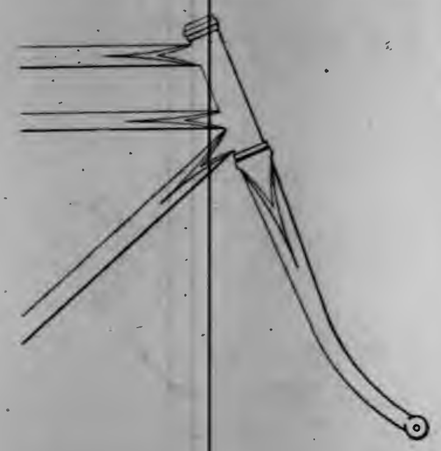


9. In combination with the upper portion of a vehicle having an opening therethrough, a headlight, a dirigible mounting for said headlight in said opening, the head light having a light emitting portion on one side of said portion of the vehicle, and operating means on the other side.

DESIGNS.

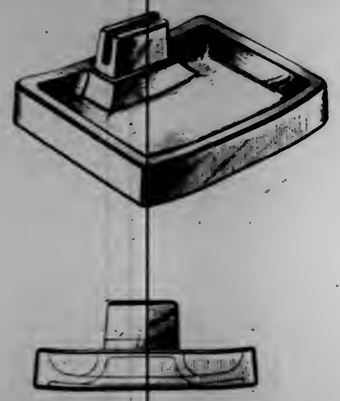
MAY 15, 1923.

15,597. MEASURING AND INDICATING APPARATUS. City, Ind., assignor to Excelsior Cycle Company, Michigan City, Ind., a Corporation of Illinois. Filed Dec. 6, 1920. Serial No. 428,820. Term of patent 14 years.



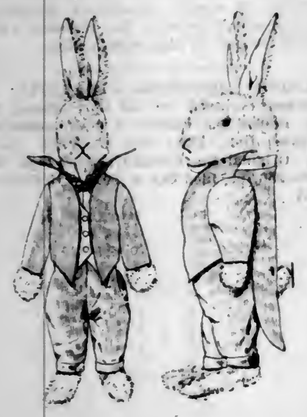
The ornamental design for a bicycle-frame, as shown.

62,352. ASH TRAY. PHILIP L. HEUISLER, Baltimore, Md., assignor to Maryland Glass Corporation, Baltimore, Md., a Corporation of Maryland. Filed Jan. 30, 1922. Serial No. 430. Term of patent 7 years.



The ornamental design for an ash tray, as shown.

62,353. TOY RABBIT. WILLIAM PAWLEY, New York, N. Y. Filed May 4, 1922. Serial No. 2,062. Term of patent 7 years.



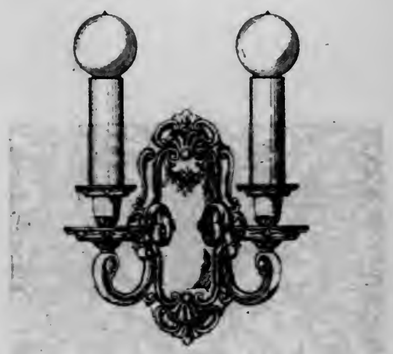
The ornamental design for a toy rabbit, as shown

62,354. SWEATER. LOUIS STRAUSS, Brooklyn, N. Y. Filed Jan. 31, 1922. Serial No. 456. Term of patent 3½ years.



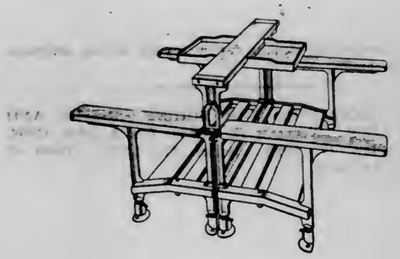
The ornamental design for a sweater as shown.

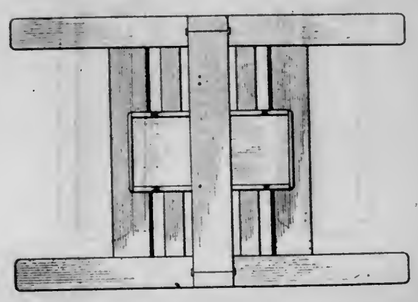
62,355. WALL-BRACKET LIGHTING FIXTURE. HERMAN ABRAMS, Philadelphia, Pa. Filed Dec. 27, 1921. Serial No. 525,257. Term of patent 3½ years.



The ornamental design for a wall bracket lighting fixture as shown.

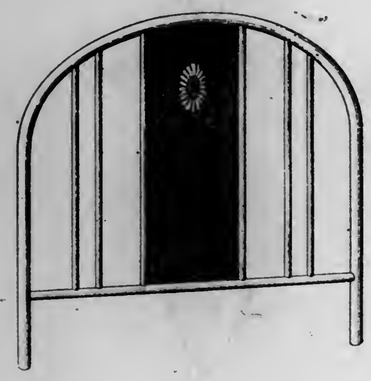
62,356. SEWING BENCH. WALTER A. ADAMS, Rochester, N. Y. Filed May 17, 1922. Serial No. 2,300. Term of patent 14 years.





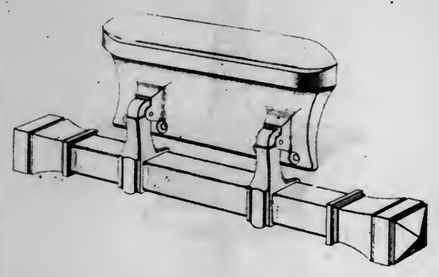
The ornamental design for a sewing bench, as shown and described.

62,357. BEDSTEAD END FRAME. FRANK ANDERSON, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed July 9, 1921. Serial No. 483,580. Term of patent 3½ years.



The ornamental design for a bedstead end frame, substantially as shown.

62,358. CASKET HANDLE. FRANK B. ASTON, Elgin, Ill. Filed July 5, 1922. Serial No. 2,963. Term of patent 3½ years.



The ornamental design for a casket handle, as shown.

62,359. SPOONS, KNIVES, FORKS, OR SIMILAR ARTICLES OF TABLEWARE. JOSEPH AVVOCATO, Brooklyn, N. Y. Filed June 7, 1922. Serial No. 2,552. Term of patent 3½ years.



The ornamental design for spoons, knives, forks, or similar articles of tableware, as shown.

62,360. LIGHTING FIXTURE. REX J. COLE, New York, N. Y., assignor to Duplexalite Corporation, New York, N. Y., a Corporation of New York. Filed June 26, 1922. Serial No. 2,826. Term of patent 14 years.



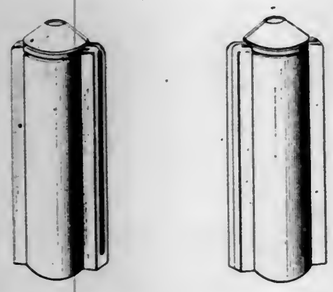
The ornamental design for a lighting fixture, as shown.

62,361. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,662. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

62,362. CONTAINER FOR TOILET CREAMS AND THE LIKE. WILLIAM B. JAMES, Los Angeles, Calif. Filed Mar. 17, 1922. Serial No. 1,221. Term of patent 14 years.



The ornamental design for a container for toilet creams and the like, as shown.

62,363. COMBINED LUBRICATING OIL AND GASOLINE DISPENSING APPARATUS. WESLEY E. KEESEE, Huntington Park, Calif. Filed June 6, 1922. Serial No. 2,550½. Term of patent 7 years.



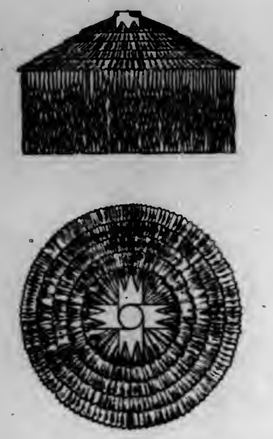
The ornamental design for a combined lubricating oil and gasoline dispensing apparatus, as shown.

62,364. ADVERTISING SIGN. ADOLF W. PRESSLER, Keene, N. H. Filed June 27, 1922. Serial No. 2,836. Term of patent 14 years.



The ornamental design for an advertising sign, as shown.

62,365. LAMP SHADE. WILLIAM F. RUSCHE, Milwaukee, Wis. Filed July 3, 1922. Serial No. 2,936. Term of patent 3½ years.



The ornamental design for a lamp shade, as shown.

62,366. ELECTRIC CIGAR LIGHTER. MILTON H. SHOENBERG, San Francisco, Calif. Filed May 11, 1922. Serial No. 2,194. Term of patent 14 years.



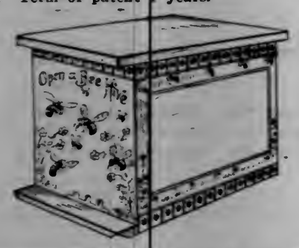
The ornamental design for an electric cigar lighter as shown.

62,367. ELECTRIC CIGAR LIGHTER AND STANDARD. MILTON H. SHOENBERG, San Francisco, Calif. Filed May 22, 1922. Serial No. 2,351. Term of patent 14 years.



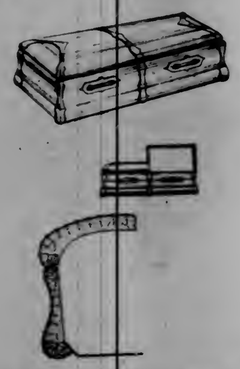
The ornamental design for an electric cigar lighter and standard as shown.

62,368. HONEY RECEPTACLE. GEORGE W. SPIKES, Dalworth Park, Tex. Filed June 10, 1922. Serial No. 2,606. Term of patent 7 years.



The ornamental design for a honey receptacle as shown.

62,369. CASKET. GUSTAVE A. WENDT, Spokane, Wash. Filed June 19, 1922. Serial No. 2,728. Term of patent 14 years.



The ornamental design for a casket substantially as shown.

62,370. LAMP STANDARD. FRANK YOEL, Avalon, Pa., assignor to Wm. B. Young Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 17, 1922. Serial No. 2,722. Term of patent 7 years.



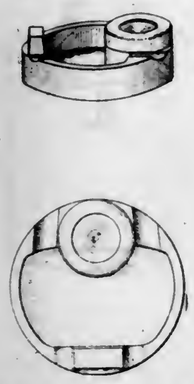
The ornamental design for a lamp standard, as shown.

62,371. EMBLEM, BUTTON, BROOCH, FOB, OR SIMILAR ARTICLE. VICTOR L. BENTSON, San Francisco, Calif., assignor to National Progress Club, San Francisco, Calif., a Corporation of California. Filed Aug. 19, 1922. Serial No. 3,468. Term of patent 14 years.



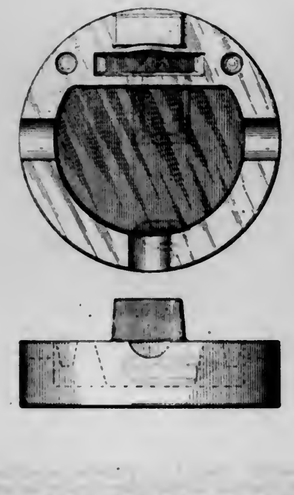
The ornamental design for an emblem, button, brooch, fob, or similar article as shown.

62,372. COMBINED ASH TRAY AND EXTINGUISHER. EUGENE C. CALLAHAN, Chicago, Ill. Filed Sept. 2, 1921. Serial No. 498,137. Term of patent 7 years.



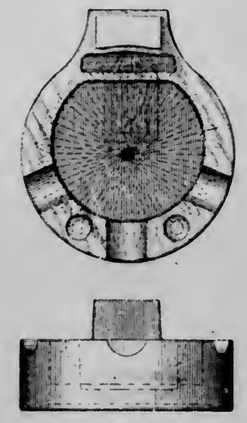
The ornamental design for the combined ash tray and extinguisher, as shown and described.

62,373. ASH TRAY. IRA M. CLARKE, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed May 16, 1922. Serial No. 2,280. Term of patent 7 years.



The ornamental design for an ash tray as shown and described.

62,374. ASH TRAY. IRA M. CLARKE, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed May 16, 1922. Serial No. 2,281. Term of patent 7 years.



The ornamental design for an ash tray as shown and described.

62,375. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1923. Serial No. 4,793. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,376. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1923. Serial No. 4,794. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,377. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1923. Serial No. 4,795. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,378. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1923. Serial No. 4,796. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,379. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1923. Serial No. 4,797. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,380. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,916. Term of patent 3½ years.



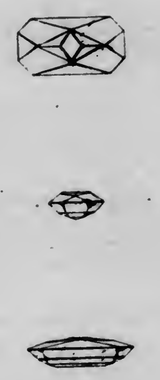
The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,381. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,917. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,382. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,918. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,383. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,919. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,384. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,920. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,385. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,921. Term of patent 3½ years.



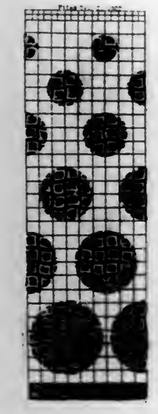
The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,386. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 4,922. Term of patent 3½ years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

62,387. TEXTILE FABRIC. PAUL REIMANN, New York, N. Y., assignor to M. Lowenstein & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1922. Serial No. 4,462. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,388. FINGER RING. WILLIAM A. H. ROBINSON, Springfield, Mass. Filed Nov. 23, 1922. Serial No. 4,370. Term of patent 14 years.

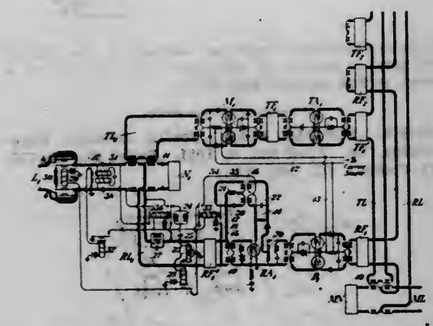


The ornamental design for a finger ring as shown and described.

PATENTS

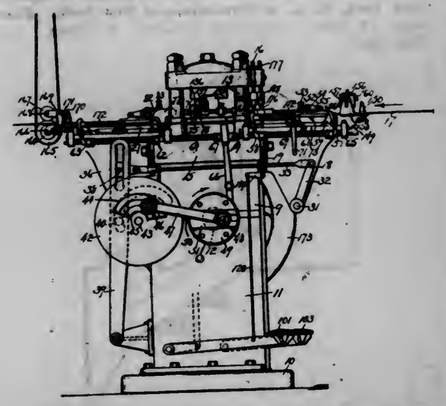
GRANTED MAY 15, 1923.

1,454,840. MEANS FOR RINGING OVER MULTIPLEX TRANSMISSION CHANNELS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 29, 1919. Serial No. 314,071. 20 Claims. (Cl. 179—4.)



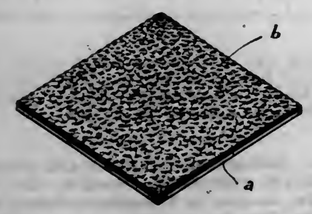
15. An amplifier having a feed back coupling between its input and output circuits whereby said amplifier may be enabled to reamplify certain frequencies, and means independent of said coupling changing the constants of said coupled circuits so that said amplifier becomes a generator of oscillations at said frequencies.

1,454,841. FEEDING MECHANISM FOR DIEING AND OTHER MACHINES. WILLIAM G. ALLEN, Hartford, Conn. Filed Nov. 13, 1920. Serial No. 423,910. 72 Claims. (Cl. 164—21.)



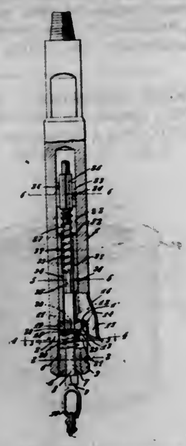
1. A dieing machine having a frame with a punch and die co-operatively supported thereon, a feed mechanism on one side of the die, a feed mechanism on the other side of the die, means for reciprocating said feed mechanisms toward and from the die, and a stop finger arranged to co-operate with one of said feed mechanisms for engaging the stock and retaining it, said stop finger being released from the stock by the engagement therewith of the feed mechanism just before the said mechanism begins to feed the stock.

1,454,842. GLASS TILE FOR COVERING WALLS. MARCEL ANSPACH, Brussels, Belgium, assignor to Societe Anonyme Belge "Saber" Entreprises & Revetements, Brussels, Belgium, a Company of Belgium. Filed Jan. 5, 1922. Serial No. 527,236. 7 Claims. (Cl. 91—70.)



1. A method of preparing glass tiles for wall coverings consisting in coating the back of said tiles with a paste containing a clayey earth, oil, turpentine, a resinous varnish and a siccative, and baking at a moderate temperature the tiles thus coated.

1,454,843. UNDERREAMER. HARRY E. BROWN, Grenola, Kans., assignor to Brown Machine Company, Grenola, Kans. Filed June 8, 1921. Serial No. 476,010. 19 Claims. (Cl. 255—75.)



1. In an under-reamer the combination with a body, and bridles extending therefrom, of cutters between and slidably engaging the upper portions of the bridles, a core interposed between the cutters and projecting between the bridles, and yieldingly supporting means engaging the cutters for holding them normally positioned between the upper portions of the bridles and in engagement therewith.

1,454,844. IRRIGATING DEVICE. JOHN P. CAMPBELL, Woodbury, N. J., assignor, by mesne assignments, to Malcolm C. Ludlam, Woodbury, N. J. Filed Apr. 6, 1920. Serial No. 371,667. Renewed Mar. 2, 1923. 1 Claim. (Cl. 299—47.)

In an irrigating device, in combination, a support comprising a horizontal member, downwardly diverging legs

adjacent the ends thereof, skids connecting the ends of said legs upon which the device may be moved, a water motor casing carried by said member at one end thereof, said casing having a tangential water supply passage, a



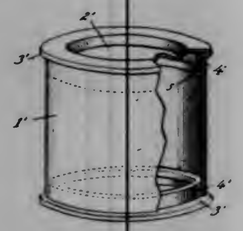
distributing pipe revolubly connected to the outlet of said passage forming an extension thereof and mounted on said support and connection whereby said motor is adapted to cause oscillation of said pipe.

1,454,845. ORNAMENTAL ARTICLE AND METHOD OF PRODUCING THE SAME. NOBLE S. CLAY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1919. Serial No. 306,617. 7 Claims. (Cl. 41—22.)



1. The method of ornamenting a body which comprises disposing sheet material provided with the desired ornamentation between sheets of thin material impregnated with a binder, disposing the assembled sheets against the body to be ornamented and curing the binder.

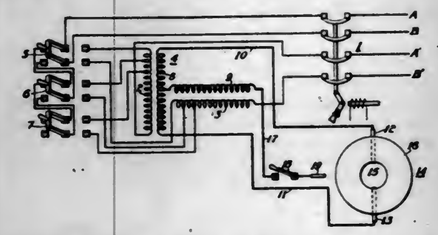
1,454,846. PAPER CONTAINER. FREDERICK COATES, Wyoming, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 14, 1920. Serial No. 373,732. 4 Claims. (Cl. 229—5.8.)



1. An article of manufacture comprising a straight paper tube or shell having its head or end formed from a single piece of paper dished or stamped and crimped at its closed end to form a laterally projecting bead or rim and having its open end inturned upon itself to form a reinforcing and finishing lap, substantially as set forth and for the purposes specified.

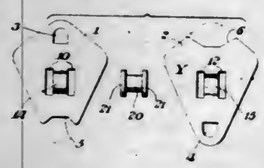
1,454,847. SALT-BATH FURNACE. OSA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1920. Serial No. 351,809. 7 Claims. (Cl. 204—64.)

1. In an electrically-heated apparatus, the combination with a conducting bath and means for causing a current to traverse said bath continually, of means whereby the insertion of an article in said bath independently of said



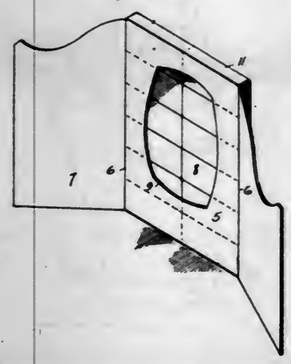
electrodes inherently causes an increase in the current traversing a portion of said bath and also causes a current to flow through said article.

1,454,848. FUSIBLE LINK. JOSIAH DAWSON, Philadelphia, Pa. Filed Mar. 5, 1921. Serial No. 449,755. 11 Claims. (Cl. 169—42.)



1. A fusible link comprising a pair of plates united by fusible material, each plate having a slot and a cylindrical key member having an outwardly directed peripheral flange disposed between the plates with said flange projecting into said slots.

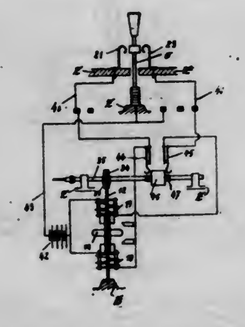
1,454,849. COMBINED SHIPPING, DISPENSING, AND DISPLAY BOX OR CARTON. ALBERT JAY GANZ, New York, N. Y., assignor to Elson Freeman Company, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1921. Serial No. 501,390. 9 Claims. (Cl. 206—44.)



1. A shipping and display carton capable of containing a plurality of articles and having an aperture in its front side, a door on each side of said aperture, said doors presenting relatively large surfaces for the display of advertising matter.

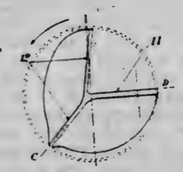
5. A paper carton made from a single blank of paper and comprising a front wall having a sight opening, a rear wall having a central opening through which the packages are accessible for engagement by the fingers and a side wall having a discharge opening formed therein through which the packages may be thrust when engaged through the opening of the rear wall.

1,454,850. METHOD OF AND APPARATUS FOR DISTANT REGULATION OF CINEMATOGRAPHIC OBJECTIVES. LÉON GAUMONT and LEOPOLD RENÉ DECAUX, Paris, France, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,037. 13 Claims. (Cl. 88—164.)



1. In combination, a plurality of objectives, one of said objectives being movable around an axis, whereby the image projected through said movable objective may be made to register or superpose, at the screen, upon the image projected by another objective, and means for adjusting said movable objective around said axis, said objective adjusting means comprising a motor having direct and reverse driving parts, a clutch part adapted to make connection with one or the other of said driving parts, means for moving said clutch part to make connection with said driving parts, and a controller actuating said clutch moving means, said controller being distant from the objectives and near the screen.

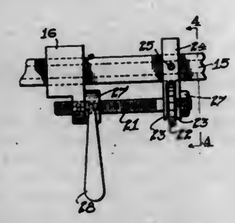
1,454,851. DRILL. HENRI PROSPER GERDIL, Paris, France. Filed June 23, 1920. Serial No. 391,022. 2 Claims. (Cl. 77—67.)



1. A drill comprising a main body, a single radial cutting edge on the end working face of said body, thin longitudinal ribs guiding the drill in the hole formed in the work and thin radial ribs on said end working face in the plane of said longitudinal ribs and adapted to rest in operation upon the bottom wall of the hole formed in the work.

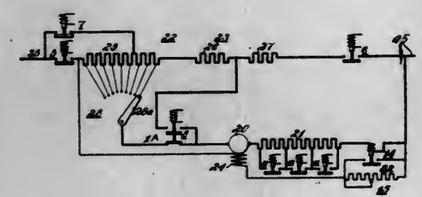
1,454,852. FEED-WEIGHT ADJUSTMENT. HENRY W. GOVIN, Northboro, Mass. Filed Feb. 14, 1922. Serial No. 536,544. 3 Claims. (Cl. 265—49.)

1. In a self feed for carding machines, the combination with a scale pan and an arm movable therewith, of a weight carried directly by, and movable along, the arm, means adapted to be fixed to the arm below the weight for holding the weight at any desired point therealong, a



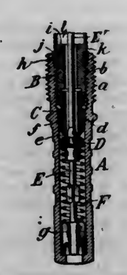
ratchet wheel connected with said means, and a ratchet pawl connected with the arm for holding the ratchet wheel and weight in adjusted positions.

1,454,853. MOTOR-CONTROL SYSTEM. REESE T. KINTZING, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,138. 15 Claims. (Cl. 172—179.)



5. The combination with a circuit comprising a motor armature, of a second circuit in parallel relation to said armature circuit and comprising a resistor, means for connecting a portion of said resistor in series with said armature, and a contactor for disconnecting said portion of said resistor from said armature circuit and for connecting a larger portion of said resistor in series with said armature.

1,454,854. PNEUMATIC VALVE. HENRY P. KRAFT, Ridgewood, N. J. Filed Sept. 2, 1915, Serial No. 48,017. Renewed July 22, 1922. Serial No. 576,869. 6 Claims. (Cl. 152—12.)

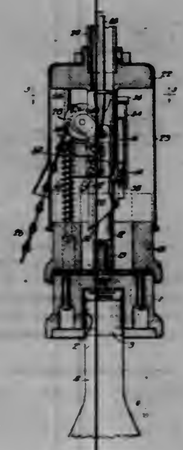


1. A valve comprising a casing having an externally and internally threaded neck portion and an internal seating face, a seat member comprising a plug wholly enclosed within said casing and having a packing fitting said seating face, and an independently rotatable screw plug swiveled to said seat member above the latter, and having

threads adapted to engage the internal threads of the neck portion and force the seat member into place, said screw plug having a head projecting above the casing when the seat member is in place, and constituting a manipulating member for inserting and removing the plugs by hand, the head of the plug projecting only slightly above the top of the casing and being of less diameter than the latter, whereby the external threads of the neck may receive a pump coupling which encloses said head, the latter being adapted to make contact with the packing of said coupling.

4. A pneumatic valve comprising a valve shell having two elongated internal conical seating faces, a screw plug and a seat member entering said shell as a unit and provided with two correspondingly tapered packing rings adapted to seat equally against such conical seating faces, whereby to make a double air-tight joint, the tapered portions of said packing rings being substantially continuous within the limits of movement upon said tapered seats, whereby there is no obstruction to the movement of either of said conical packing rings into wedging contact with the tapered seats.

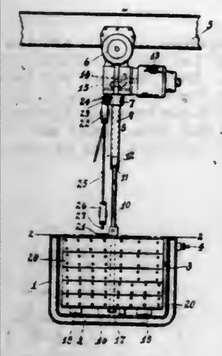
1,454,855. LAMP HANGER. ERNEST MILTON LARKINS, South Bend, Ind., assignor to George Cutter Company, South Bend, Ind., a Corporation of Indiana. Filed Dec. 30, 1920. Serial No. 433,993. 2 Claims. (Cl. 240—63.)



1. A lamp hanger having a supporting member, a pendant catch pivotally supported therefrom and adapted to swing in two opposite directions from a neutral position, a spring adapted to restore the catch to neutral position, and a lamp socket having means whereby it may be raised and lowered and having a stem with a laterally projecting pin, the catch having three cams crossing its neutral axis in alternate directions, the catch having a seat for the pin above the first, lowermost, cam and a stop for the pin located aside from the neutral axis in the direction of the trend of the first cam to prevent the continued rise of the pin without first lowering it, the third, uppermost, cam being open at the bottom to release the pin.

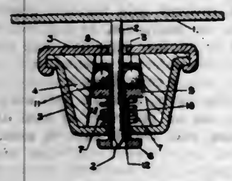
1,454,856. COOKING VESSEL FOR GLAZING FRUIT. WALTER J. O'BRIEN, San Francisco, Calif. Filed Apr. 25, 1921. Serial No. 464,477. 3 Claims. (Cl. 126—272.)

1. In combination, a cooking kettle, a shaft mounted to be lowered into said kettle and to be raised from said kettle, a disk on the lower end of said shaft, a plurality of cooking pans adapted to be placed upon said disk around said shaft and superimposed upon each other, means for



rotating said shaft, and means for lowering said shaft, disk and pans into said kettle and for raising the same out of said kettle.

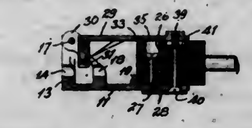
1,454,857. SEPARABLE BUTTON. ELISHA A. PHINNEY, Pawtucket, R. I. Filed Sept. 16, 1921. Serial No. 501,178. 1 Claim. (Cl. 24—110.)



The combination with a button and a pointed centrally positioned stem fixed thereon, of a cup-shaped member having a centrally positioned aperture at its closed end and annular flanges projecting radially from its open end, a body member positioned within said cup-shaped member and having a central, vertically disposed tapered bore therethrough with its smaller end associated with the open end of the cup-shaped member, the outer wall of the body member being tapered in an opposite direction to its bore, a centrally apertured top plate resting upon the upper surface of said body member and having its edges rolled over to engage the flange of the cup-shaped member, a centrally, longitudinally bored ball cage positioned within the tapered bore of the body member and having a tapered peripheral surface, a longitudinally bored shank formed with said ball cage and projecting through the aperture formed in said cup-shaped member, a flange formed on the projecting end of said shank, a spring encircling said shank between said ball cage and the apertured end of said cup-shaped member for urging the ball cage towards the smaller end of the said body member, and balls carried by said cage for engaging the tapered wall of said body member and said stem when the latter is inserted through the cage for releasably connecting the two.

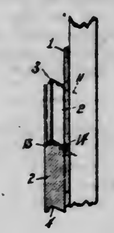
1,454,858. CONNECTION PLUG. WILLIAM EDISON PRICE, New York, N. Y. Filed May 12, 1920. Serial No. 380,749. 3 Claims. (Cl. 173—382.)

2. A connection plug comprising a casing, a cover hinged to one end of the casing, an insulating and contact carrying block closing the opposite end of the casing and clamping jaws carried by the casing and by the cover



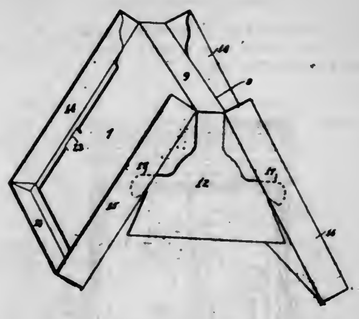
adjacent the hinge, for holding said cable in distorted clamped position.

1,454,859. VENEER BUILDING BLOCK. CHARLES RAW, Toledo, Ohio. Filed May 21, 1921. Serial No. 471,404. 3 Claims. (Cl. 72—19.)



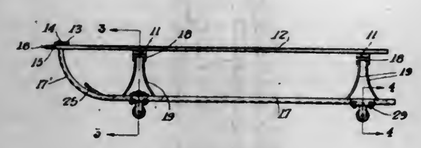
2. A veneer building block of plastic material having a flange provided lengthwise of an edge thereof and spaced at front from the front edge of the block, the flange being of triangular form in cross section with the leg forming the front face shorter than the leg forming the rear face, the flange having a nail receiving notch in its top extending from the front face thereof substantially parallel with the rear face and to and through the rear body edge portion of the block whereby shock or pressure against the front face of the block is distributed in a straight line to the rear edge portion of the block body.

1,454,860. DISPLAY DISPENSER. WILLIAM RELIHAN, Brooklyn, N. Y., assignor to Robert Gair Company, New York, N. Y. a Corporation of New York. Filed July 1, 1920. Serial No. 393,327. 12 Claims. (Cl. 211—24.)



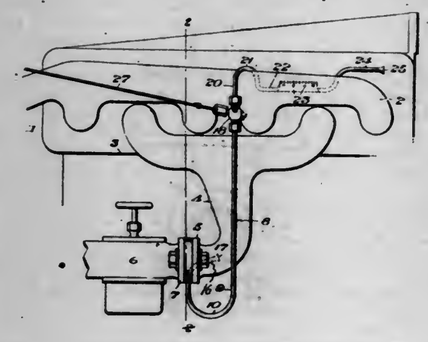
1. A container comprising two container portions, each portion having an open end, the open ends being adjacent to each other, means for connecting the container portions at their open ends and permitting positioning of the container portions in back to back inclined relation for displaying the contents thereof, and means connected to said means for connecting the container portions for supporting the container portions in position for display.

1,454,861. CONVERTIBLE VEHICLE. FRANK RIST, Brooklyn, N. Y. Filed July 3, 1922. Serial No. 572,392. 2 Claims. (Cl. 280—8.)



1. A vehicle comprising a platform, a pair of runners, curved, flat, leaf-spring supports interposed therebetween, a cross bar extending between said runners near the front thereof, a narrow plate pivoted centrally to said bar on the under side thereof, a steering bar rigidly extending to the front from said plate, wheels carried at the outer ends of said plats adjacent the runners, and a pair of wheels removably engaged with said runners at the rear.

1,454,862. INTERNAL-COMBUSTION ENGINE. JOHN V. RODERICK, Akron, Ohio. Filed Aug. 25, 1922. Serial No. 584,338. 7 Claims. (Cl. 123—119.)

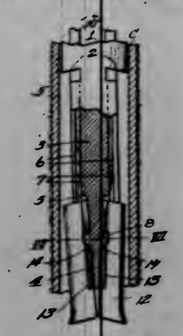


3. An attachment for a gas engine having an intake and an exhaust manifold comprising, an intake pipe adapted to project at one end into the intake manifold said pipe embodying a trap portion, a valve casing at the other end of the pipe embodying a main passageway and an auxiliary passageway communicating with the atmosphere, a rotary core for said casing having a diagonal bore therein and a second bore arranged at an angle to said first bore, and a second pipe connected to the main passageway of said casing said pipe being adapted to hook over the exhaust manifold and comprising a portion adapted to parallel said exhaust manifold.

1,454,863. WELL REAMER. FREDRICK SAGER, Tulsa, Okla., and HOWARD R. HARDENBURG, Kansas City, Mo. Filed June 5, 1922. Serial No. 565,803. 2 Claims. (Cl. 255—75.)

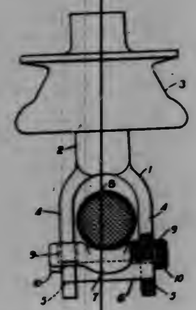
2. In a well reamer, a body portion faced off at opposite sides and reduced to provide downwardly-converging shoulders and a tapered lower end; said end at an intermediate point having downwardly-converging lugs, a pair of cutters slidable on the body-portion to fit flatly against the faced sides thereof higher than or below the said shoulders, and provided with notches for receiving the said lugs when the cutters fit flatly against the said

tapered portion, and means connected to the cutters for sliding them upward on the body portion and having a



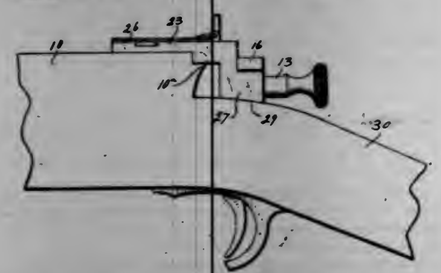
play connection to permit them to assume positions parallel or in downwardly-converging relation to each other.

1,454,864. FEEDER-CABLE SUPPORT. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,410. 7 Claims. (Cl. 248—31.)



3. A conductor-supporting device comprising a supporting member having a receiving portion therein, a holding member in said receiving portion, and a conductor-seat member fitted over said supporting member and having a portion for preventing the removal of the holding member.

1,454,865. SIGHT BASE FOR RIFLES. HORATIO SEYMOUR SEELY, Syracuse, N. Y. Filed May 29, 1922. Serial No. 564,415. 5 Claims. (Cl. 42—16.)



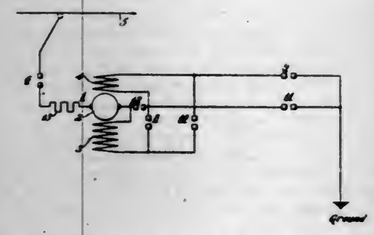
1. A sight mount for rifles embodying a shiftable bolt, a non-rotatable plunger guide on the bolt, the guide having an extension forming an attachment for an extractor, said mount comprising a base adapted for attachment to said extension and embodying portions rigidly embracing said guide.

1,454,866. MANIFOLD HEATER. WALTER T. SEITZ, Pittsburgh, Pa. Filed Aug. 19, 1921. Serial No. 493,696. 5 Claims. (Cl. 219—38.)



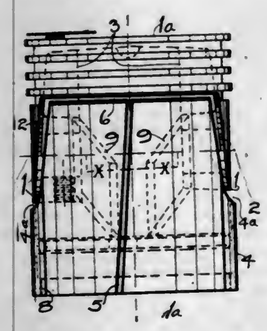
1. A gasket adapted for insertion in a pipe joint comprising an outer metallic layer, an inner layer of metal electrically insulated from the said outer layer, and an exposed coil of resistance wire carried by the said gasket and having its ends electrically connected to the said outer layer and to the said inner conductor respectively.

1,454,867. MOTOR-CONTROL SYSTEM. WILLIAM R. TALIAFERRO, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1921. Serial No. 493,229. 6 Claims. (Cl. 172—179.)



3. The method of accelerating a motor having two series of field magnet windings that comprises connecting said windings in series relation, energizing one of said windings in the opposite direction, re-energizing said winding in the original direction, and then de-energizing the other of said windings.

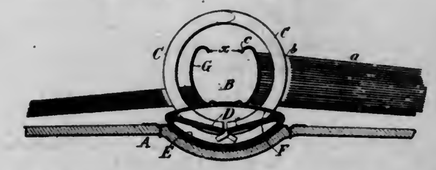
1,454,868. PISTON FOR ENGINES. ROLLAND S. TROTT, Denver, Colo. Filed Apr. 7, 1922. Serial No. 550,345. 9 Claims. (Cl. 74—108.)



1. A piston composed of a head section provided with a plurality of piston ring grooves and with wrist pin lugs

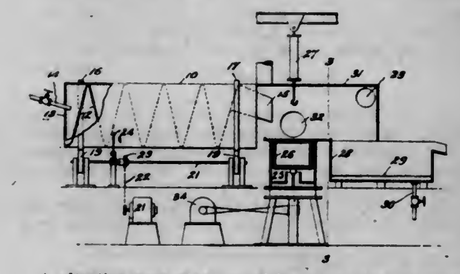
rigidly integral therewith, a skirt section attached directly to said head section upon but one side of a center line, and directly to said wrist pin lugs for but a part of their adjacent sides, and provided with a single longitudinal cut on the other side of said center line, and with flexible means on either side of said cut joining said skirt to said lugs.

1,454,869. LOOSE-LEAF BINDER. CLARENCE D. TRUSSELL, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a Corporation of New York. Filed June 16, 1922. Serial No. 568,687. 6 Claims. (Cl. 129—24.)



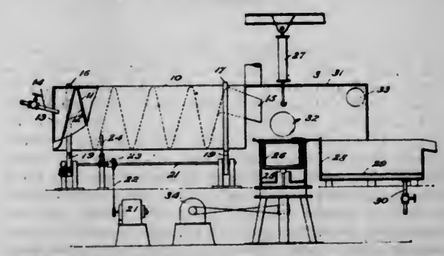
1. In a loose-leaf binder of the ring type, an aligner for the inner margins of the sheets, consisting of two lateral curved portions, with a central gap or opening between them at the top.

1,454,870. NITRATION APPARATUS. HENRY V. WALKER, Newark, N. J. Filed May 20, 1920. Serial No. 382,810. 1 Claim. (Cl. 23—3.)



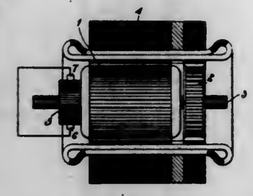
A nitrating apparatus comprising a rotatable nitrating container having a mixing door at one end and an interior peripheral helical partition providing a succession of pockets at the bottom for limited bodies of mixture, and means for feeding acids into the compartment near the charging end of the container.

1,454,871. PROCESS FOR NITRATING CELLULOSE. HENRY V. WALKER, Newark, N. J. Original application filed May 20, 1920, Serial No. 382,810. Divided and this application filed Sept. 23, 1922. Serial No. 589,961. 1 Claim. (Cl. 260—145.)



The process of nitrating cotton and the like which comprises the following steps, namely:—conveying a succession of separate charges of mixed cotton and acids from a charging point to an extracting point by a succession of intermittent movements accompanied by a smooth frictional action on the charges causing gentle agitation during movement forward and subjecting each charge in turn to the extraction process at the end of its travel.

1,454,872. COMMUTATOR REPULSION INDUCTION MOTOR. CLIFFORD A. M. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 16, 1918. Serial No. 258,434. 7 Claims. (Cl. 172—276.)



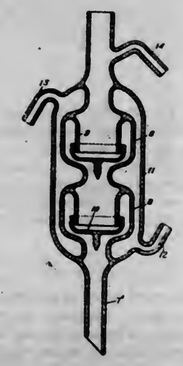
1. In a single-phase, alternating current motor, the combination of two rotors mounted on a common shaft, both of said rotors being active at all time to produce torque on said shaft, and one of said rotors being provided with a commutated repulsion-motor winding and the other of said rotors having a squirrel cage winding, and electrically related windings for producing field fluxes for the two rotors, whereby the current conditions in each field winding are affected by the current conditions in the other.

1,454,873. METHOD OF HANDLING GASES AND PRODUCT CONTAINING DISSOLVED GAS. HENRY C. P. WEBER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 23, 1919, Serial No. 299,302. Renewed Dec. 8, 1920. Serial No. 429,250. 3 Claims. (Cl. 23—10.)

1. The method of handling chlorine for easy manipulation in step-wise chlorination which comprises forming a solution, saturated at definite pressures, of the chlorine in a chlorinated hydrocarbon not readily affected by chlorine in which is dissolved a catalytic agent.

3. A product for convenient shipment and storage comprising a saturated solution of chlorine in carbon tetrachloride containing a dissolved catalytic agent.

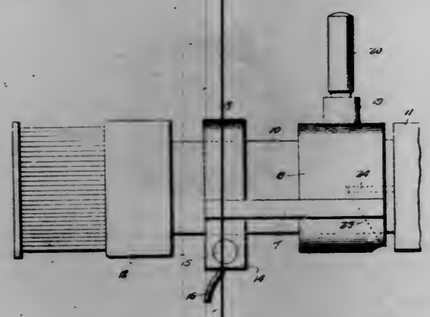
1,454,874. FRACTIONATING COLUMN. HENRY C. P. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 5, 1919. Serial No. 315,502. 6 Claims. (Cl. 23—3.)



1. A fractionating column comprising a tubular body provided, in its length, with a condensing chamber and

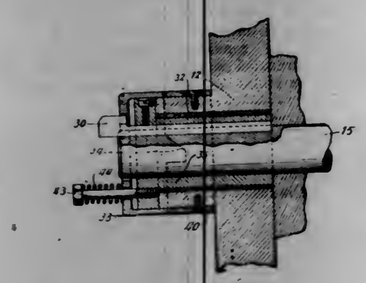
means disposed in the chamber providing for a liquid seal between the ends of the body including a cup, and a depending projection thereon.

1,454,875. ELECTRIC HEATER FOR SHOE MACHINERY. CHARLES L. WHITE, Medina, N. Y. Filed Jan. 24, 1921. Serial No. 439,416. 28 Claims. (Cl. 219—21.)



7. In a machine of the class described, a driven shaft, a tool carried at the free end of said shaft, an electrically heated means movable on said shaft for heating said tool, and means for moving said heating means into and out of the contact with said tool.

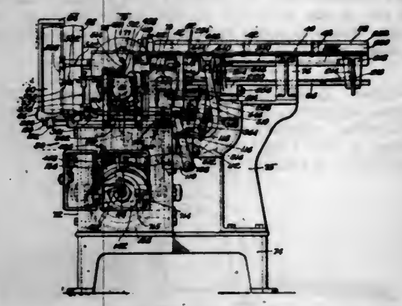
1,454,876. SAFETY STOP FOR DOUBLE SEAMERS. MAGNUS E. WIDELL, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1920. Serial No. 424,695. 7 Claims. (Cl. 113—28.)



1. In a machine for seaming flanged can ends to flanged can bodies, automatic means for stopping the action of the machine when normal movement of the cans therein is impeded, said automatic means comprising a driving element and a driven element having a frictional driving engagement, and means whereby the relative movement of said driving element disconnects from itself the power mechanism.

1,454,877. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 6, 1920. Serial No. 371,725. 89 Claims. (Cl. 164—21.)

1. A stock-cutting machine having, in combination, means including a die for cutting pieces of sheet material, and means for removing the freshly cut pieces from the



die prior to the cutting of other pieces and for assembling them progressively in stacked formation.

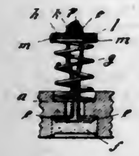
1,454,878. MAGNETIZABLE METER VANE. TRYGVE D. YENSEN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 9, 1919. Serial No. 302,703. 8 Claims. (Cl. 171—95.)



1. A meter vane formed of a magnetizable ferrous alloy consisting of over 25% nickel and having a hysteresis loss less than 1000 ergs per cubic centimeter per cycle for B—10,000 gausses.

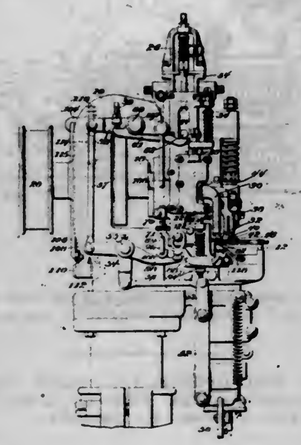
6. A meter vane formed of a magnetizable alloy consisting of substantially equal parts of nickel and iron.

1,454,879. CONNECTION OR BINDING TERMINAL. RUDOLF ZÖLLNER, Dresden, Germany. Filed Apr. 6, 1921. Serial No. 459,197. 1 Claim. (Cl. 173—259.)



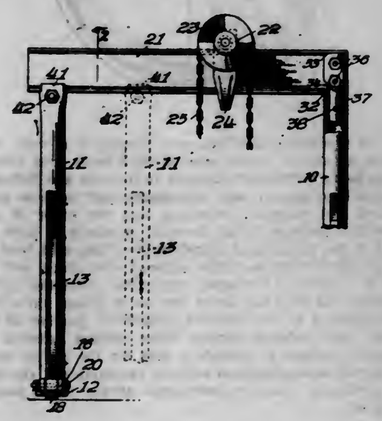
A connection or binding terminal comprising a cotter pin-shaped support having side members of which the upper parts are spaced apart while the lower parts lie closely upon one another, a split head overlapping ends, and outwardly extending feet connected with one another; a coil-spring located over said support; a washer placed upon the upper end of said coil-spring and having two notches forming a tongue between them, and a cap placed over said washer and having two similar notches forming a tongue between them, said washer and cap embracing the upper parts of the side members of said support from opposite sides and adapted when depressed against the action of said coil-spring to spread the lower parts of side members and thereby to open the split head of said support, substantially as and for the purpose set forth.

1,454,880. SOLE-CHANNELING MACHINE. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 7, 1919. Serial No. 302,576. 15 Claims. (Cl. 12—27.)



1. A sole channeling machine having, in combination, work supporting and feeding means, and means for forming a shoulder along a portion of the edge of the sole and a lip in continuation thereof along another portion of said edge.

1,454,881. MOVABLE HOISTING DEVICE. FRANK J. BRYANT, West Brookfield, Mass. Filed Apr. 3, 1920. Serial No. 371,040. 5 Claims. (Cl. 189—16.)



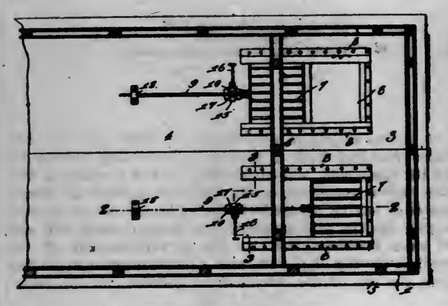
1. In a device of the character described, the combination with a pair of up-rights, each consisting of a piece of pipe, and a horizontal I-beam at the top, one of said pipes being split down at the top diametrically to provide jaws for securing it to the lower flange of the I-beam, of removable means for holding said jaws clamped against said flange whereby said up-right can be moved along the flange.

1,454,882. COMBINED LETTER BOX AND CHANGEABLE SIGN. WINTER W. CHRISTIAN and AUGUSTUS G. MAXEY, Owensboro, Ky.; said Christian assignor to said Maxey. Filed Sept. 14, 1921. Serial No. 500,537. 1 Claim. (Cl. 220—1.)



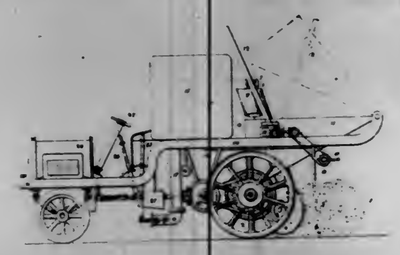
A device for the purpose set forth comprising a back plate adapted to be secured to a fixed support and having re-entrant flanges along its longitudinal side edges, the lower ends of said flanges being closed, side plates provided at their rear side edges with outstanding flanges to engage in the re-entrant flanges of the back plate whereby the side plates will be supported by the closed lower ends of said re-entrant flanges, outstanding flanges at the front longitudinal edges of the side plates, a front plate having re-entrant flanges engaging the outstanding flanges at the front edges of the side plates, a division plate secured rigidly to and extending between the side plates, and a stop flange on the rear face of the front plate adapted to bear upon said division plate whereby to support the front plate.

1,454,883. REFRIGERATOR-CAR PROTECTIVE DEVICE. AMBROSE J. DENMAN and ALMA E. CAUSEY, Dalhart, Tex. Filed Sept. 9, 1922. Serial No. 587,180. 3 Claims. (Cl. 105—377.)



1. The combination with a refrigerator car having an ice compartment and a main compartment and an opening in the ice compartment, of a grating movably mounted within the car and movable to position across or away from the opening, and cooperating means upon the grating and within the main compartment for fastening said grating in open or closed position.

1,454,884. STREET SWEEPER. LOUIS BAPTISTE DONKERS, Antwerp, Belgium. Filed Nov. 14, 1919. Serial No. 338,037. 1 Claim. (Cl. 15—83.)



In a motor driven street sweeper, the combination of a motor vehicle having a frame, a brush mounted transversely of the frame and in a slanting position with respect to the vehicle, an inclined pipe mounted on one side of the frame and terminating adjacent the periphery of the brush, a spiral conveyer mounted for rotation in the pipe, means connecting the upper end of said conveyer with the vehicle for transmitting rotary motion to the conveyer, a platform carried by the lower end of the pipe and extending under one end portion of the brush to a point adjacent the plane of the vertical axis thereof, said platform being adapted to receive material accumulated by the brush, said inclined pipe being formed at the top with an opening, a removable pipe communicating with the first mentioned pipe, and a tank carried by the frame to receive material from the removable pipe, whereby the brush will sweep the dirt onto the platform and along the same into the lower end of the pipe and the spiral conveyer will elevate the dirt and discharge it into the removable pipe from which it falls into the tank.

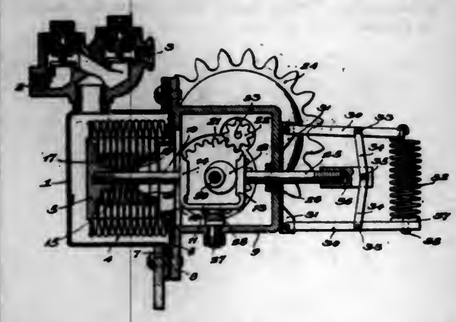
1,454,885. RUBBER SOLE. GEORGE FERGUSON, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 13, 1919. Serial No. 317,203. 2 Claims. (Cl. 36—22.)



1. As an article of manufacture, a rubber sole for turn shoes provided with a marginally extending sewing rib on its upper side, and comprising a tread member of flexible rubber compound, an intermediate member of fibrous material having a relatively high fibrous content located within the rib, said member being comparatively stiff and of such thickness that its top is substantially at the level of the top of the rib, and a fabric member extending over the top of the intermediate member and the rib.

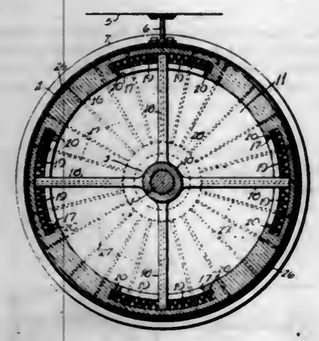
1,454,886. PUMP. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Apr. 16, 1921. Serial No. 461,949. 21 Claims. (Cl. 103—152.)

1. The combination of a pump casing having inlet and outlet connections, a resilient pumping member in said casing, means whereby said member is flexed in one direction, said member flexing in the opposite direction by the force of resiliency, and means cooperating with said



member to compensate for changes in the force of resiliency by which said member is moved in said last-named direction.

1,454,887. FRICTIONLESS AIR BRAKE. SEBASTIAN GIOVANNINI, Chicago, Ill. Filed Sept. 6, 1921. Serial No. 498,621. 5 Claims. (Cl. 188—90.)



5. In a device of the character described, a valve comprising a tubular casing open at both ends, said tubular casing being cylindrical adjacent to its ends and fluted intermediately, one of said cylindrical end portions being reduced and threaded exteriorly and the other of said cylindrical portions being threaded interiorly, a head disposed in the last named cylindrical portion, said head being provided with an outlet orifice in its outer end and with a plurality of integral extensions extending beyond its other end into the fluted portion, a piston valve slidably disposed in the reduced cylindrical portion of the casing, said reduced portion being further reduced adjacent to its end to provide a seat for the piston valve, and spring means disposed between the valve and the head for yieldingly resisting movement of the valve toward the head.

1,454,888. SYSTEM FOR SELLING AND PACKING FOOD PRODUCTS. WESTON GREEN, Dayton, Ohio, assignor to The Green & Green Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 11, 1922. Serial No. 543,127. 2 Claims. (Cl. 229—6.)

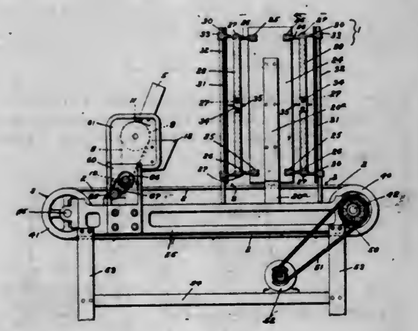
1. A triple-sealed three ply casing comprising an inner moisture-proof complete sealed sack of material sufficiently pliable to snugly fit inside of a rigid box, and bodily removable therefrom and insertable into another box of the

same or different shape and substantially the same cubical capacity, and adapted to fit the same by virtue of its pliability while in its sealed condition, a complete sealed box for containing said removable sack sufficiently rigid to maintain its shape under ordinary commercial handling, and a complete moisture-proof sealed paper



cover to entirely cover said sealed box, whereby the contents of the package is doubly sealed against moisture, the written or printed matter on the sealed box is visible through the transparent cover and whereby the contents of the sack may be preserved in a sealed condition in such other box.

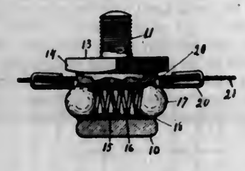
1,454,889. MACHINE FOR SEALING CIRCULARS. ARTHUR H. GUSTAFSON, Chicago, Ill., assignor to Henry E. Holbrook, Boston, Mass. Filed Jan. 26, 1918. Serial No. 213,967. 30 Claims. (Cl. 216—54.)



1. In apparatus of the class described, means including endless carriers for feeding a folder or the like, a wafer magazine, a moistened carrying member for picking a wafer from the hopper and carrying it to a folder, means for stripping the wafer from the carrying means and for placing the wafer across the path of the folder, and a wafer supporter for holding the wafer across the edge of the folder.

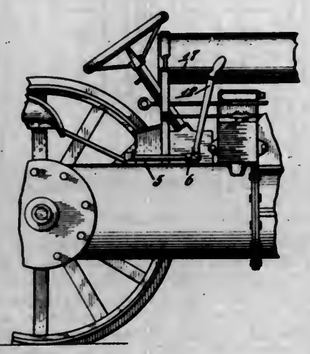
1,454,890. SNAP FASTENER. LARRABEE B. HARPE, Louisville, Ky. Filed Mar. 27, 1920, Serial No. 369,427. Renewed Apr. 2, 1923. 2 Claims. (Cl. 24—214.)

1. In a device as characterized, a stud having a diametrical bore, extending entirely therethrough a ball in each end of and projecting from said bore, a coil spring



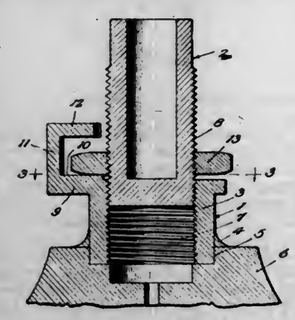
in said bore bearing against said balls to force them apart and means to retain said balls within said bore.

1,454,891. CLUTCH-RELEASE LEVER. JANES B. HOWELL, St. Joseph, Mo. Filed Oct. 16, 1922. Serial No. 594,945. 1 Claim. (Cl. 74—39.)



In combination with a clutch pedal and clutch shaft, a clamp embracing a part of the clutch shaft, an upwardly extended portion forming a part of the clamp and having a flange formed along one edge thereof, a lever secured to the clamp and having one edge thereof contacting with the flange, means for securing the lever to the upwardly extended portion, and means associated with the lever for locking the lever against movement.

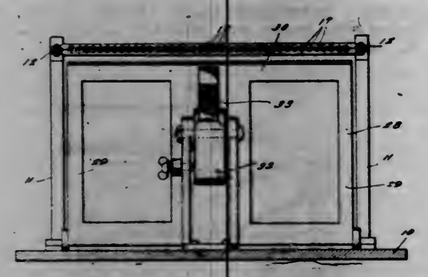
1,454,892. GREASE CUP. ROBERT HUNT and LEWIS D. FREEMAN, Portsmouth, Va., assignors, by mesne assignments, to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 12, 1921. Serial No. 451,716. 4 Claims. (Cl. 184—48.)



1. In a device of the class described, a relatively fixed part, a member adjustably threaded into the said fixed

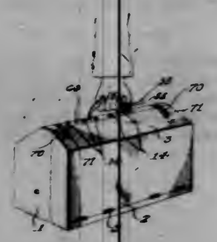
part, inner and outer abutments fixed with relation to the fixed part and relatively spaced and rigidly connected, and a locking element threaded on to the adjustable member and having its peripheral portion projecting between the said abutments, the said locking element being adjustable to bind against the inner abutment to lock the adjustable member in its positions of adjustment and being designed to bind against the outer abutment in the event of loosening of the parts whereby to prevent complete disengagement of the adjustable member from the relatively fixed part.

1,454,893. SAW SHARPENING AND SETTING DEVICE. MAURICE JACKSON, Eldorado, Kans. Filed May 16, 1921. Serial No. 469,895. 4 Claims. (Cl. 76—34.)



1. A saw sharpening machine comprising a base, a plurality of uprights rising from said base, a pair of rods slidable through the uprights, cross members connected with said rods, a plurality of files, means connected with said cross members for holding said files, a clamping device disposed between said uprights and beneath said files and adapted to hold a saw to be sharpened, and means for simultaneously adjusting all of the files.

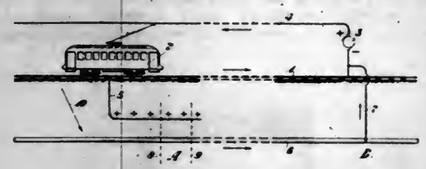
1,454,894. MESSENGER'S SAFETY CARRYING CASE. HENRY F. JOHNSON, Chicago, Ill. Filed May 29, 1922. Serial No. 564,676. 10 Claims. (Cl. 109—6.)



1. In a carrying case, a plurality of barrels opening out through the top of said case and adapted to contain explosive cartridges, firing means for exploding cartridges in said barrels, and means for successively operating said firing means.

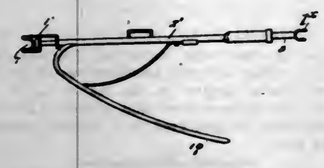
1,454,895. ELECTROLYSIS MITIGATION. GEORGE G. JONES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1920. Serial No. 412,433. 3 Claims. (Cl. 171—316.)

1. An electrically operated railway system, a metallic article buried in the ground in the vicinity of the tracks of said system, means to connect said article to the negative pole of the generator of said system, and a conductor buried in the ground in the vicinity of a section of said



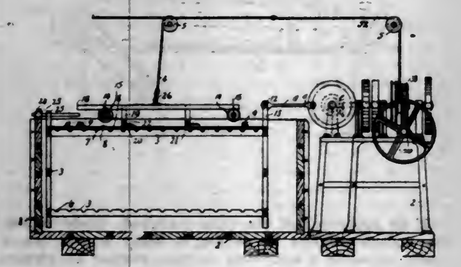
article which would normally have a potential positive to earth, said conductor being connected to a section of the tracks having a potential positive to the potential of said section of said article.

1,454,896. TRAIN-ORDER HOLDER AND HOOK. OTTO F. KLOETZER, Washington, Ind. Filed July 10, 1920. Serial No. 395,225. 3 Claims. (Cl. 258—22.)



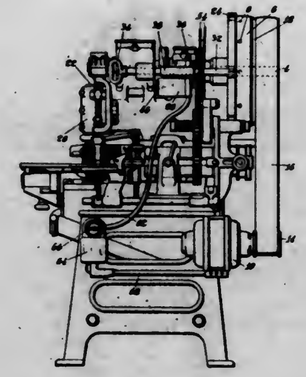
1. A train order holder comprising a pair of brackets secured in spaced relation to the cab of the train, a rod having its ends journalled in said brackets and a hook member provided at one end thereof, a spring strip having one end secured to said rod and its remaining end engaging the hook members, said strip bridging the space between the rod and the member, an arm being secured to said rod and passing through a slot formed in the cab adapted to act as a handle for rocking said rod to move the hook member into position.

1,454,897. MACHINERY FOR DYEING AND TREATING TEXTILES. FELICE FRANCESCO LARIVET, Bath, England. Filed Apr. 14, 1919. Serial No. 289,980. 4 Claims. (Cl. 8—19.)



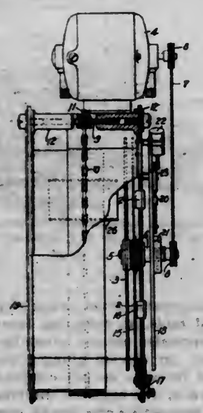
1. In a machine for the treatment of textile fibres, a liquor-carrying-vat, a closed perforated cage or a frame carrying fibre bearing sticks movable lengthwise of the vat when supported on bearing roller fitted transversely and detachably within the vat, and adapted to be moved vertically when the rollers are removed, means for first giving a to and fro motion under liquor, and means for giving at another time a up-and-down motion at a different speed up to the speed down, as stated.

1,454,898. SAFETY DEVICE. BERNARD SCOTT LEE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 4, 1919. Serial No. 328,528. 4 Claims. (Cl. 192—133.)



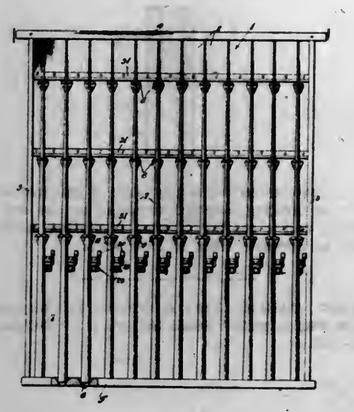
1. In a machine of the class described, a shaft, a member projecting laterally from the shaft and capable of causing injury to the operator when the member is unguarded, a guard slidably axially of the shaft to cover and uncover said member, power means for operating said member, a switch in an electric circuit for controlling the power means, and means connected to the guard and so arranged as to prevent electrification of the circuit and the starting of the machine in operation when the guard is in uncovering position with respect to said member.

1,454,899. HIGH-SPEED CAMERA. JOSEPH W. LEGG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 30, 1920. Serial No. 355,256. 11 Claims. (Cl. 88—16.)



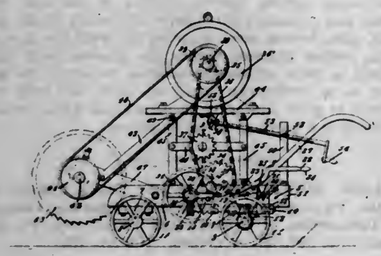
1. In a camera, the combination with a plurality of lenses, of means for permitting a plurality of exposures through the lenses in sequence and a limiting shutter for precluding a second exposure through the lenses.

1,454,900. BILLIARD-CUE RACK. HENRY F. LEVENTRY, Johnstown, Pa. Filed Mar. 5, 1921. Serial No. 449,828. 7 Claims. (Cl. 46—6.)



1. In a rack for billiard cues, means for gripping a cue at a plurality of spaced points in its length, the said means comprising sets of relatively movable coacting gripping members, and means operable to simultaneously relatively separate the members of the several sets to permit the introduction or removal of the cue.

1,454,901. SAWING MACHINE. NEILL D. MCARTHUR, Danville, Va. Filed Jan. 24, 1922. Serial No. 531,446. 1 Claim. (Cl. 143—46.)



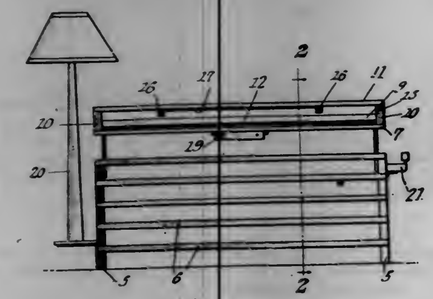
A sawing machine including a wheeled support, an auxiliary support disposed above the wheeled support, vertical supporting arms, having their ends pivotally connected to the supports to permit movement of the auxiliary support with respect to the wheeled support, pivoted arms having connection with the wheeled support and carrying bearings at their outer ends, angularly disposed arms having connection with the pivoted arms and having their upper ends connected to the auxiliary support, a bracket secured to the under side of the auxiliary support, a threaded adjusting rod having its free end supported within the bracket, said adjusting rod adapted to move the auxiliary support to adjust the pivoted arms, a rotary saw mounted in the bearings of the pivoted arms, and means on the auxiliary support for imparting rotary movement to the saw.

1,454,902. SELF-LIGHTING CIGARETTE. JOHN W. MCCLAIN, Chicago, Ill. Filed Oct. 16, 1920. Serial No. 417,303. 2 Claims. (Cl. 131—52.)



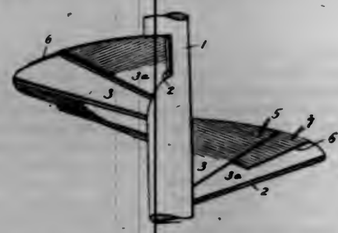
2. A cigarette having a wrapping of ignitible material, a strip of igniting material arranged at one end of the cigarette, and a coating of heat insulating material arranged on opposite sides of said strip.

1,454,903. TABLE. JOHN B. O'NEAL, Jr., Waycross, Ga. Filed July 5, 1921. Serial No. 482,413. 1 Claim. (Cl. 45—122.)



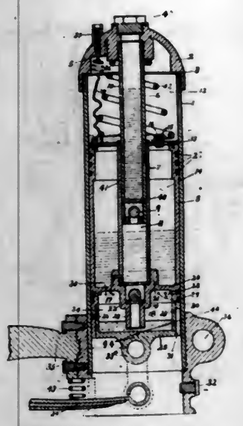
A game table comprising end sections, a table top, a game board having grooves formed in the side edges thereof and extending throughout the length of the game board, arms having pivotal connection with the table and having rollers disposed within the grooves, said rollers adapted to move within the grooves to permit the game board to be withdrawn from the table, and said arms adapted to pivot upwardly to permit the game board to be swung to a position on the table top.

1,454,904. SPIRAL SEPARATOR. FRANK PARDEE, Hazleton, Pa., assignor to Anthracite Separator Company, a Corporation of Pennsylvania. Filed Oct. 11, 1921. Serial No. 507,109. 7 Claims. (Cl. 83—54.)



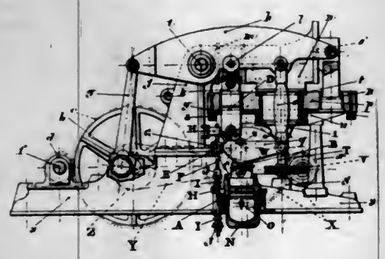
1. A spiral separator having a runway formed with a series of ridges adapted to exert an edge resistance on the material travelling thereon, said ridges being spaced so close together that the lumps of material travel on the peaks of two or more adjacent ridges.

1,454,905. SHOCK ABSORBER. FRANKLIN E. POINDEXTER, Denton, Tex., assignor, by mesne assignments, to Benjamin S. Davidson, Denton, Tex. Filed Feb. 24, 1920, Serial No. 360,666. Renewed Sept. 25, 1922. Serial No. 590,540. 9 Claims. (Cl. 267—64.)



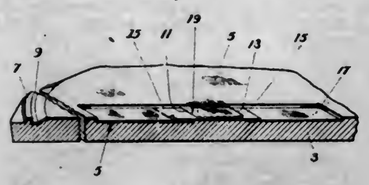
1. A fluid pressure device, comprising a casing, a main piston movable therein and formed to provide an oil reservoir to contain a constant supply of oil, a pump cylinder carried by the main piston and providing a pump chamber, a hollow plunger connected to the casing and operating in the cylinder, an air inlet to the pump chamber, and a restricted opening forming a constant communication between the oil reservoir and pump cylinder under all working conditions, whereby to retard the flow of oil between the reservoir and pump chamber with respect to any pump action.

1,454,906. PRESS FOR FORMING BRIQUETTES. JEAN RÉOL, Lyon, France. Filed June 30, 1920. Serial No. 393,151. 1 Claim. (Cl. 25—66.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



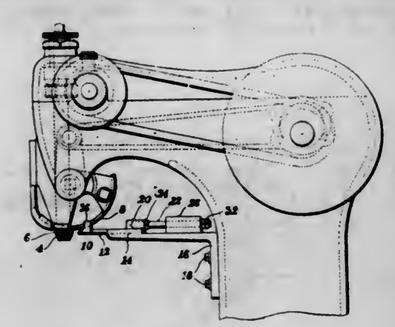
A double compression press comprising a fixed support, a rotary mould table, an operating lever pivoted on said support, a compression plunger pivotally connected to the operating lever, an ejector plunger also pivotally connected to said lever, a second compression plunger arranged to move in the opposite direction to the first, a rod and lever connecting the second compression plunger to the operating lever, a hydraulic cylinder, a piston therein, a block carried by said piston, the said connecting lever being arranged on said block, and a rotary cam arranged to impart maximum speed to the table during the periods between compression and to hold the table against movement during the periods of compression.

1,454,907. ART OF MANUFACTURING SOLES. JOHN H. RIGBY, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 12, 1920. Serial No. 380,782. 15 Claims. (Cl. 12—146.)



1. As an article of manufacture, a molded and vulcanized sole for a turn shoe having a passage leading from the upper surface into the shank portion thereof and adapted to receive and hold in place a shank stiffener after the shoe in which the sole is incorporated has been turned right side out.

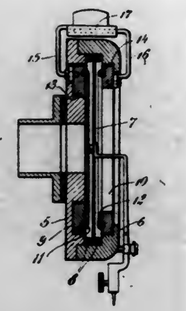
1,454,908. VAMP-TRIMMING MACHINE. MOSES E. SHACKLEY, East Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 26, 1919. Serial No. 306,912. 13 Claims. (Cl. 12—83.5.)



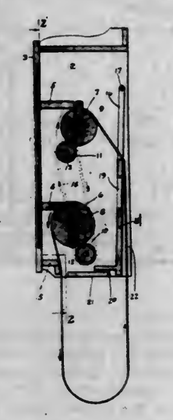
1. An upper trimming machine comprising a guide roll arranged so that one end will engage the face of the insole of a lasted shoe while its periphery engages the inner surface of the material being trimmed, the other end of said roll having a shearing edge, a mechanically operated cutter arranged to cooperate with said shearing edge, and a trimming gage arranged to overlap continuously the overdrawn portion of the upper that lies on the margin of the sole to keep said overdrawn portion at a predetermined distance from the line of trimming when the shoe is tilted so as to lay the marginal portion of the upper against said roll.

1,454,909. SOUND BOX. DANIEL F. SNYDER, Garwood, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed May 5, 1920. Serial No. 379,008. 7 Claims. (Cl. 274—27.)

1. The combination with a sound box and a diaphragm mounted therein, of diaphragm engaging rings at opposite sides of the diaphragm and having reversely screw-threaded mountings in the sound box whereby rotation of said rings in one direction will carry the same toward the diaphragm and rotation in the opposite direction will carry them away from the diaphragm and means connecting the rings for rotating both the rings concurrently in one direction or the other.



1,454,910. TOWEL CABINET. GEORGE ADOLPH STEINER, Salt Lake City, Utah, assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 7, 1922. Serial No. 527,749. 6 Claims. (Cl. 45—32.)

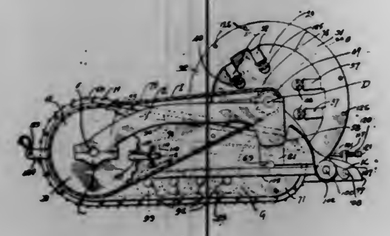


6. A towel cabinet comprising a casing, clean and soiled towel rolls mounted therein, a feed roll contacting by gravity with one of said towel rolls, a second feed roll having a driving connection with the first feed roll, a clean towel depending from the cabinet, a shield pivoted in the rear of the cabinet and behind which the towel extends, said shield being movable towards the front of the cabinet to facilitate the insertion of the towel back of the shield and to prevent the soiled part of the towel from contacting with the clean portion during the normal operation of the device.

1,454,911. TRACTOR ATTACHMENT FOR AUTOMOBILES. JOHN R. STEPHENSON and OLIVER C. ARMSTRONG, Los Angeles, Calif. Filed Dec. 12, 1919. Serial No. 344,426. 13 Claims. (Cl. 305—3.)

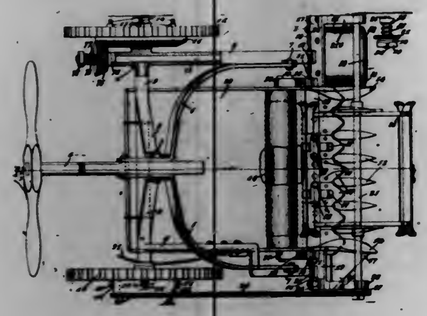
1. A tractor attachment for the rear end of automobiles comprising ground engaging elements, rotatable grip

drums arranged to support the drive wheels of the automobile, said grip drums constituting the sole means of connection between the attachment and the automobile,



means for raising and lowering the drums and means operatively connecting the drums with the ground engaging elements.

1,454,912. LAWN MOWER. WILLIAM ELBERT TATE, Sr., Weatherford, Tex. Filed Aug. 9, 1921. Serial No. 490,977. 2 Claims. (Cl. 56—258.)



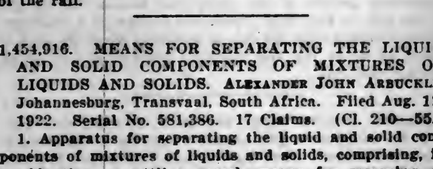
1. In a mower, a frame; a ground wheel journaled on the frame; a cutter bar mounted to reciprocate on the frame; a shaft journaled in the frame; means for connecting the shaft operatively with the cutter bar; intermeshing gears on the ground wheel and on the shaft, the gear of the shaft being movable longitudinally thereon; and spring means coacting with the said gear to hold the same engaged with the gear of the ground wheel and automatically return it after disengagement therefrom.

1,454,913. DIAPHRAGM ADAPTED TO RECEIVE AND PRODUCE SOUND. ERIC MAGNUS CAMPBELL TIGERSTEDT, Frederiksberg, near Copenhagen, Denmark. Filed July 8, 1919. Serial No. 309,494. 2 Claims. (Cl. 181—32.)



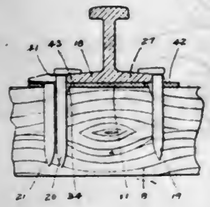
1. A diaphragm comprising a film and a stiff supporting member to which the peripheral portion of the diaphragm is directly attached, and in which said supporting member is embedded, said peripheral portion of the diaphragm covering said supporting member.

1,454,914. PRINTING APPARATUS. LIBANUS M. TODD and CHARLES G. TIEFEL, Rochester, N. Y., assignors to Todd Protectograph Company, Inc., Rochester, N. Y. Filed Mar. 10, 1922. Serial No. 542,693. 16 Claims. (Cl. 197—6.2.)



1. In a machine of the class described, the combination with a printing couple operable to print upon and move the check in one direction, of devices operable to move the check in the opposite direction and at an angle to the first movement, and means for effecting operations of said printing couple and said devices.

1,454,915. RAIL MOUNTING. ROBERT W. ANDERSON, Covington, Ky. Filed Dec. 15, 1922. Serial No. 607,057. 7 Claims. (Cl. 238—295.)

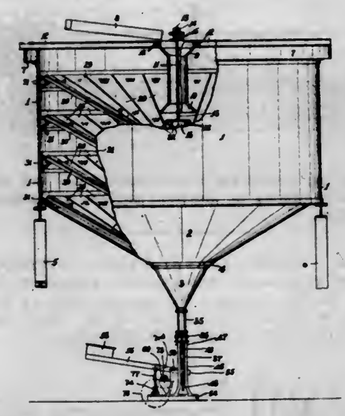


1. In a rail mounting of the class described the combination of a tie, a slotted plate, a rail having flanges, and spikes for engaging the flanges on the rail, adapted to pass through the slots in the plate and to be driven into the tie, the spikes being provided with means for cooperatively interlocking upon one another, and upon the plate and rail, whereby to preclude lateral displacement of the rail.

1,454,916. MEANS FOR SEPARATING THE LIQUID AND SOLID COMPONENTS OF MIXTURES OF LIQUIDS AND SOLIDS. ALEXANDER JOHN ARBUCKLE, Johannesburg, Transvaal, South Africa. Filed Aug. 12, 1922. Serial No. 581,386. 17 Claims. (Cl. 210—55.)

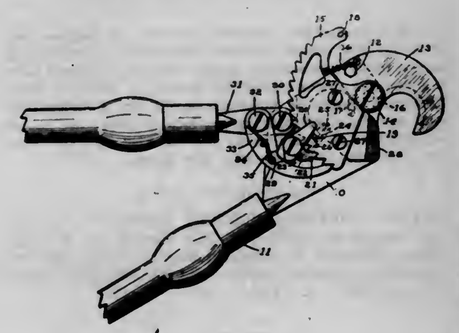
1. Apparatus for separating the liquid and solid components of mixtures of liquids and solids, comprising, in combination, a settling vessel, means for removing or discharging the settled solids therefrom including a casing which is in communication with the bottom of the vessel, a shaft which is adapted to be reciprocated in said casing, plates, having openings, arranged upon and

spaced apart along the length of the shaft and means for reciprocating the shaft, and a valve device which controls



the passage of the solids from the casing so that the valve is opened by the pressure of the solids from the discharging means.

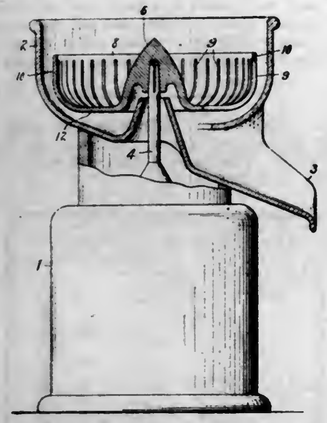
1,454,917. PRUNING SHEARS. LEON J. BARRETT, Worcester, Mass. Filed Sept. 11, 1922. Serial No. 587,514. 7 Claims. (Cl. 30—11.)



1. In a pruning shear, the combination of a hook blade with a ratchet segment pivotally connected therewith, yielding means for moving said segment in one direction, a lever pivotally mounted with respect to said blade and having a pawl thereon for operating the ratchet against the action of said spring, a second pawl pivotally mounted with respect to said blade engaging said ratchet, and means for automatically moving the second pawl into or out of engagement with the ratchet at each end of the stroke of the ratchet segment.

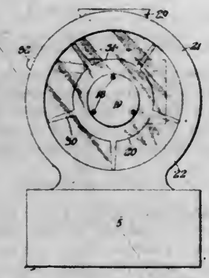
1,454,918. FRUIT-JUICE EXTRACTOR. OSCAR BROPHY, Philadelphia, Pa. Filed Nov. 11, 1922. Serial No. 600,257. 4 Claims. (Cl. 146—3.)

1. A machine for extracting the juice of fruit, comprising, a stationary casing, an extractor bulb rotatably mounted within the casing, a strainer associated with the extractor bulb, and mechanism for rotating the strainer for discharging the juice from the contents of



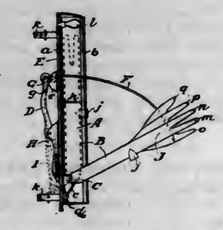
the strainer into the stationary casing by the action of centrifugal force.

1,454,919. COIN-DEPOSIT RECEPTACLE. JOSEPH N. BUENO, Chicago, Ill. Filed Apr. 19, 1922. Serial No. 555,543. 10 Claims. (Cl. 232—7.)



1. A coin deposit receptacle comprising a coin box, having a coin passage formed therein, a pair of discs, spacing means for said discs, divisional elements carried intermediate said discs forming a plurality of pockets, said pockets being adapted to receive coins, means for intermittently rotating said discs whereby said pockets are brought into registration with the passage of said box.

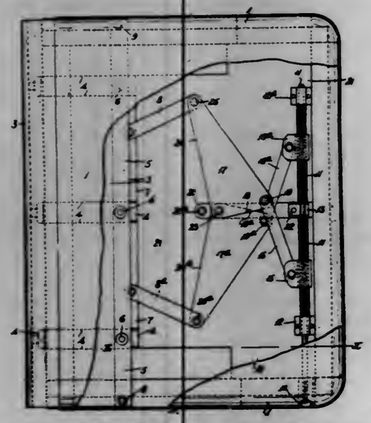
1,454,920. AUTOMOBILE SIGNAL. WESLEY CLINE, Edmonton, Alberta, Canada. Filed May 5, 1922. Serial No. 558,705. 1 Claim. (Cl. 116—41.)



An automobile signal comprising a casing having a front in two parts hinged to a back strip and spring-

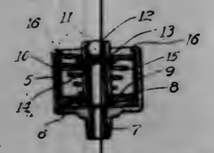
held to its open position, an arm pivotally secured in said casing and spring pulled in a downward direction and having fixed fingers and pivoted fingers spring-held to their open position, a lever pivoted to said casing and flexibly connected with said arm for raising purposes, a lamp within said casing, and a clasp attached to said arm for engaging and closing the front of said casing.

1,454,921. LOOSE-LEAF BINDER AND THE LIKE. ROBERT LYGERTWOOD ESSEX, Johannesburg, Transvaal, South Africa. Filed Sept. 3, 1921. Serial No. 498,210. 5 Claims. (Cl. 129—41.)



1. In a loose-leaf binder, front and back covers, an adjustable back, a spindle having right and left-hand screw threads, a nut on each of said threads, and a pair of bell-crank levers, one arm of each of which is connected to the adjustable back and the other to one of the nuts.

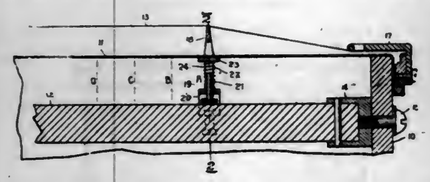
1,454,922. LUBRICATING DEVICE. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Original application filed Nov. 18, 1918, Serial No. 262,930. Divided and this application filed May 28, 1920. Serial No. 384,031. 2 Claims. (Cl. 184—45.)



1. The combination with a receptacle having an end closure provided with a conduit for securing it to a bearing, of a plunger slidable in said receptacle, a tubular member extending through and secured to said plunger in alignment with said conduit, the outer end of said tubular member being provided with an outwardly closing closure and means for making a detachable connection with a grease gun, and a spring for urging said plunger toward said end closure.

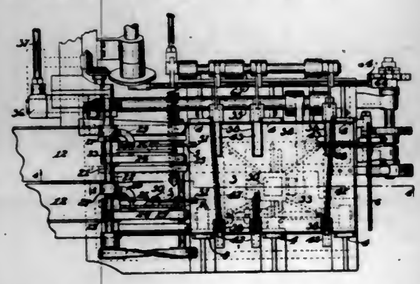
1,454,923. MUTE FOR STRINGED MUSICAL INSTRUMENTS. ALBERT D. GROVER, Long Island City, N. Y. Filed Apr. 19, 1921. Serial No. 462,635. 5 Claims. (Cl. 84—273.)

1. A mute for the vibrating diaphragm of a stringed musical instrument in which the rim thereof is provided with a stick, comprising a slidably mounted member spaced from said stick, a supporting device resiliently carried by said member and adapted to bear against



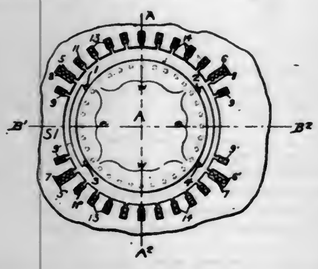
the vibrating diaphragm of said instrument, and adjustable means carried by the said member and supported on the stick.

1,454,924. NEWSPAPER-STACKING MECHANISM. SEVERIN HALVORSEN, Seattle, Wash., assignor to Newspaper Stuffing Machines Co., Seattle, Wash., a Corporation of Washington. Filed Aug. 28, 1920. Serial No. 406,579. 16 Claims. (Cl. 271—87.)



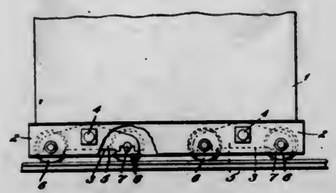
1. In a newspaper handling machine, an endless conveyor for the papers having projecting paper-engaging fingers, paper accelerating means comprising endless belts engaging the under side of the papers as they are being discharged from the main conveyor, and complemental belts and their operating means located above the papers and mounted to swing about one end and with the other end yieldingly bearing upon the paper.

1,454,925. DYNAMO-ELECTRIC MACHINE. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1917. Serial No. 202,690. 24 Claims. (Cl. 172—276.)



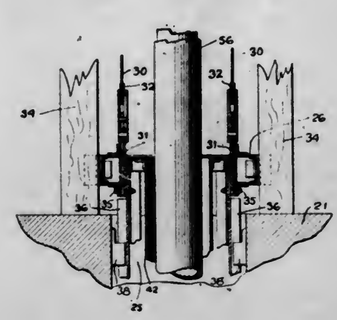
2. A single-phase motor comprising a commutator-type armature, a plurality of brushes associated therewith to permit magnetizing currents to flow in certain armature inductors, a magnetizable stator member enclosing said armature, and an exciting field winding producing a magneto-motive force substantially coaxial with that of the magnetizing armature inductors and having its coilsides so located with respect to said brushes that the magnetic leakage between said exciting field winding and the armature turns carrying said magnetizing current is relatively large, the arrangement being such that a resultant starting flux is produced.

1,454,926. WEIGHT-EQUALIZATION DEVICE. GEORGE H. F. HOLY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 7, 1920. Serial No. 428,872. 4 Claims. (Cl. 105—211.)



1. The combination with a transformer, of a main supporting frame comprising a plurality of pairs of spaced members, a plurality of wheel frames pivotally mounted between the members of each pair for independent pivotal movement with respect to said frame.

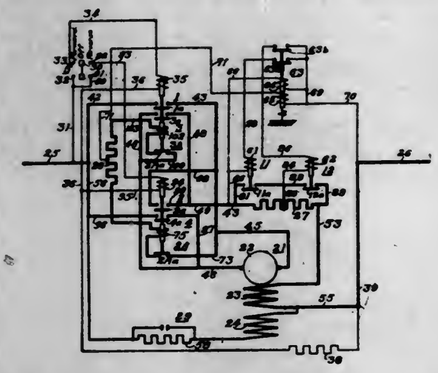
1,454,927. PILE-DRIVING APPARATUS. EDWARD H. HORSON, Brooklyn, N. Y., assignor to Merritt & Chapman Derrick & Wrecking Company, New York, N. Y., a Corporation of West Virginia. Filed Nov. 15, 1919. Serial No. 338,259. 3 Claims. (Cl. 61—74.)



1. In a pile driving apparatus, a float, a derrick thereon having vertical ways, a pile driving hammer operatively mounted in said ways, a pile guide movable vertically in said ways and guiding means connecting said pile guide and float, operative to permit a relative rocking movement between said pile guide and float while maintaining driving relation between the pile and hammer.

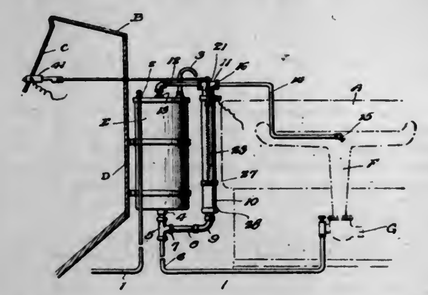
1,454,928. CONTROL SYSTEM. GEORGE W. HURTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 17, 1920. Serial No. 404,158. 10 Claims. (Cl. 172—288.)

2. The combination with a motor having an armature and means for effecting dynamic braking thereof, of means comprising a relay for accelerating said motor, said relay being electrically connected to said armature and



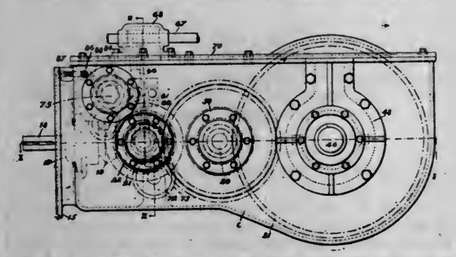
to said braking means during certain operative periods of said motor.

1,454,929. HEATING PRIMER. HERBERT G. IRWIN, Floydada, Tex. Filed June 15, 1920. Serial No. 389,217. 7 Claims. (Cl. 123—180.)



1. In a primer for internal combustion engines, an electrically heated chamber, a valve forming a cap therefor, a heating element carried by said valve within the chamber, means for admitting fuel to the chamber at the end opposite the said valve to flow over the heating element, and means for energizing said heating element.

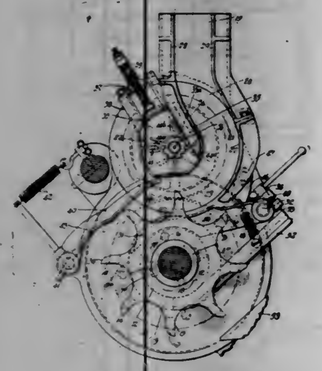
1,454,930. TRANSMISSION MECHANISM. LESTER HOKE KEIM, Chicago, Ill., assignor to R. D. Nuttall Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,318. 5 Claims. (Cl. 74—57.)



5. In a transmission mechanism, the combination of a driving shaft, driven shafts, and means for transmitting power from the driving shaft to the driven shafts com-

prising an intermediate shaft, symmetrically-arranged gears on the driven shafts meshing with the pinions on the intermediate shaft, and a differential mechanism between the pinions on the intermediate shaft, said differential mechanisms having bevel gear wheels, side plates limiting the axial movement of the bevel gear wheels, and said pinions having extended hubs projecting into and secured to the hubs of said bevel gear wheels.

1,454,931. BOTTLE FEEDING AND GUIDING DEVICE. JOSEPH H. KONEFES, Chicago, Ill. Filed June 27, 1921. Serial No. 480,839. 16 Claims. (Cl. 198—22.)



1. In a bottle-feeding and guiding device, the combination of a horizontal rotary bottle-supporting table; guides above the table, not movable with the table, forming a channel adapted to maintain and conduct bottles in upright position at a predetermined distance from the center of the table; and means for pushing such bottles into and through said channel.

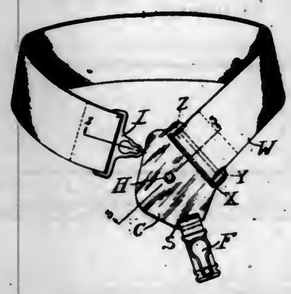
16. In a bottle-feeding and guiding device, the combination of a horizontal, rotary bottle supporting table; guides above the table, forming a channel adapted to maintain and conduct bottles in upright position on the table; and a rotating feeding disk, extending some distance over the table and forming the bottom of a chute leading into said channel, said disk travelling considerably faster under said chute than the speed of the table under said channel.

1,454,932. FISHERMAN'S FLY BOOK. ALBERT S. LANGBEIN, Philadelphia, Pa., assignor to F. W. Klinger & Langbein Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,087. 1 Claim. (Cl. 43—32.)



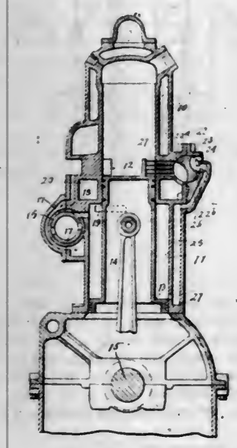
A book of the character stated consisting of foldable covers, a box formed of rigid material connected with one of said covers, said box having a covering lid, a pocket formed of duplicate waterproof sheets one of which is transparent, a closing flap for said pocket, said pocket being located parallel with said cover, means for securing said pocket to the backbone of the book, a sheet of absorbent fabric parallel with said pocket and being secured to said backbone, said covers being adapted to inclose said box, pocket and sheets, and a flap on one of said covers adapted to overlap the other cover and to be secured in closed position thereto.

1,454,933. GARTER. DAVID C. LASH, Shirley, Mass. Filed Sept. 12, 1921. Serial No. 500,030. 8 Claims. (Cl. 241—6.)



1. A garter comprising a fastener, a web, and an integral plate of flexible material for connecting the web and fastener, said plate having a slot near its lower edge for reception of the fastener, a pair of juxtaposed web-receiving slots near its upper part, said slots extending obliquely to said first slot, and a connecting element at the central part of the plate.

1,454,934. INTERNAL-COMBUSTION ENGINE. CHARLES M. LEECH, Lima, Ohio; Charles E. Kindell administrator of said Charles M. Leech, deceased. Filed July 12, 1920. Serial No. 395,499. 5 Claims. (Cl. 123—71.)



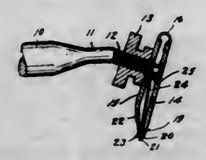
1. In an internal combustion engine, a cylinder, a piston therein, means for supplying combustible mixture to the cylinder, a throttle valve controlling the supply of mixture to the cylinder, and means by which air is supplied to the mixture before its admission past the throttle valve, said valve controlling said means.

1,454,935. BASE FOR PORTABLE LAMPS. WILMAR F. LENT, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed Feb. 27, 1922. Serial No. 539,474. 6 Claims. (Cl. 240—53.)



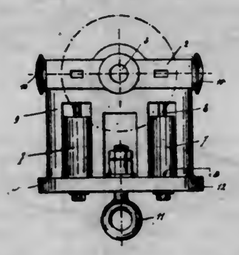
1. A base for portable lamps having in combination a clamping member and means for drawing said member within the base, including two springs arranged to act on telescopic members.

1,454,936. SAFETY RAZOR. ARTHUR E. LEVENE, Seattle, Wash. Filed July 5, 1921. Serial No. 482,367. 4 Claims. (Cl. 30—12.)



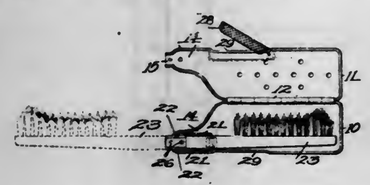
1. A safety razor including two spaced apart plates having blade clamping edges arranged to engage with and firmly clamp a blade throughout its entire length and in close proximity to its cutting edge, both of said clamping edges terminating short of the cutting edge of the blade and the clamping edge of the outermost plate being beveled on the exterior to form a guard member that follows the cutting edge of the blade.

1,454,937. OVERHEAD RUNWAY. PIERRE MARTIN, Brussels, Belgium. Filed Dec. 4, 1922. Serial No. 604,888. 2 Claims. (Cl. 104—34.)



1. In an improved overhead runway, the combination with a suspended track formed of two parallel rails of a plurality of carriers each comprising: a carrier body fitted with a shaft having two carrier wheels monted thereon by means of ball bearings, two buffers respectively on the front and on the rear end of said carrier body, two vertical guiding rollers located in suitable spaces of said body and of a diameter somewhat larger than the thickness of the body, and means, secured to the carrier body, for the suspension of chains, lifting tackle and like intermediate devices for the suspension of the load, substantially as described.

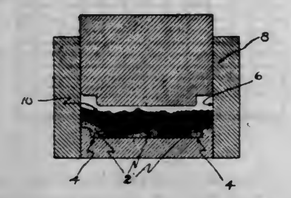
1,454,938. FOLDING TOOTHBRUSH. GUSTAVE E. W. MILLER, Boston, Mass. Filed Apr. 16, 1919. Serial No. 290,456. 10 Claims. (Cl. 15—185.)



1. In a folding tooth brush, the combination with a casing, of a movable link connection pivoted therein, and a tooth brush pivotally connected with said link connection and readily detachable therefrom.

7. In a folding tooth-brush, the combination with a casing, of a link pivoted thereto, and a tooth-brush shank pivotally mounted on said link, said link having opposite yielding projections in alignment extending toward each other and the tooth brush shank having opposite depressions for receiving said projections.

1,454,939. METHOD OF MAKING ARTICLES OF VARICOLORED PLASTIC MATERIALS. HAROLD N. MICHAELSEN, Boston, Mass., assignor to Rawson Electrical Instrument Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 7, 1920. Serial No. 350,018. 1 Claim. (Cl. 18—48.8.)

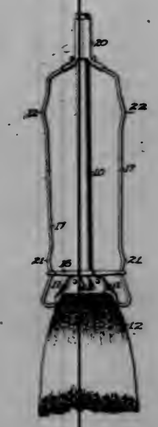


The method of making a homogeneous composition of matter with blended colors, that comprises placing a partial reaction condensation product in irregular masses in a mold of irregular contour so as not to cover entirely the bottom of the mold, placing a differently colored partial reaction condensation product in the mold over the first-named condensation products and so as to cover the portions of the bottom of the mold not covered by the first-named condensation product, and applying heat and pressure to chemically intermold the condensation products at their juncture and to integrally unite them into a single mass, whereby the color of each condensation product and a blending of the colors at their juncture are obtained.

1,454,940. MOP. ABRAHAM MORRISON, Worcester, Mass. Filed July 8, 1921. Serial No. 483,808. 3 Claims. (Cl. 15—120.)

1. A mop comprising a handle, a mop cloth, a mop holder fixed to the end of said handle, a guide rotatably mounted on said handle, a sleeve freely movable angularly and longitudinally on said handle, and a wire wringer frame fixed to said sleeve, slidable in said guide,

and extending through said mop cloth, said frame having portions bent to yieldingly cooperate with said guide



to hold said frame in either extended or withdrawn position.

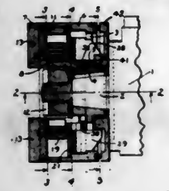
1,454,941. RAT TRAP. NILS OSCAR NILSSON, Worcester, Mass. Filed May 11, 1922. Serial No. 560,190. 2 Claims. (Cl. 43—69.)



2. In a rat trap, the combination of a feed box having an opening at each end near the top, a platform pivoted adjacent to one of said openings and having the free end extending from it inwardly toward the other, a stop near the other end for limiting the upward motion of the platform, a weight on the platform near the end of the box for holding it up against the stop, said box having a horizontal door along one side by which fowls can have access to grain or water located in the bottom of it, said door being located at a level lower than said openings, a screen under the platform slanting from a position above the opening to a point near the bottom and at a distance from that side of the box, and a readily removable cover for the box.

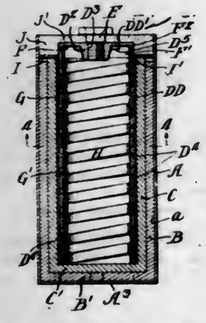
1,454,942. IMPULSE COUPLING. JOHN PAULY, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed May 17, 1921. Serial No. 470,298. 16 Claims. (Cl. 123—149.)

1. In an impulse coupling comprising rotatable driving and driven members and an impelling spring arranged to be stressed upon angular displacement of said members, the combination of a locking mechanism therefor comprising a laminated sheet metal locking member, an abutment arranged to be engaged thereby and mechanism



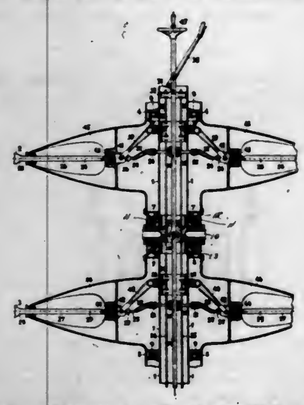
for releasing said locking member from engagement with said abutment.

1,454,943. ELECTRIC BATTERY. DAVID PEPPER, Philadelphia, Pa. Filed Aug. 9, 1921. Serial No. 490,858. 4 Claims. (Cl. 204—34.)



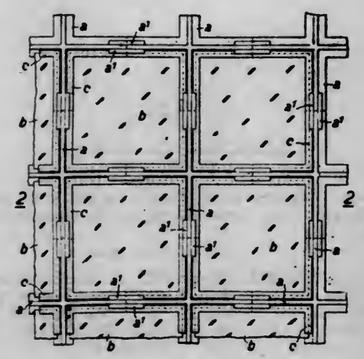
1. An electric battery comprising an outer cup shaped container of lead, a layer of active material in close electrical and mechanical contact with the inside walls of said cup constituting the cathode of the battery, a zinc cup shaped anode set with its closed end uppermost in the battery and spaced from the cathode layer, a seal of non-permeable non-conducting material closing the space between the top of the lead and zinc cups and acting to hold the zinc cup anode in position, and an electrolyte in contact with both electrodes.

1,454,944. SYSTEM OF HELICOPTER SCREWS. RAUL PATERAS PESCARA, Barcelona, Spain. Filed July 15, 1920. Serial No. 396,597. 5 Claims. (Cl. 244—19.)



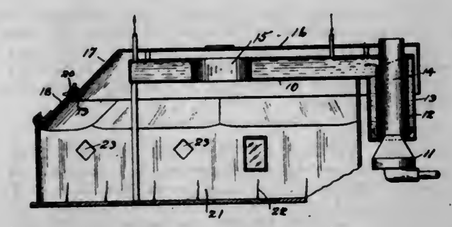
1. In a helicopter, a pair of oppositely rotating propellers each having movable blade portions, a central hollow spindle mounting said propellers for rotation thereon, and mechanism including elements within said spindle for adjusting the blades and movable portions thereof independently.

1,454,945. ACID RECEIVER. PAUL LUDWIG PFANNENSCHMIDT, Jena, Germany. Filed Aug. 8, 1921. Serial No. 490,733. 4 Claims. (Cl. 23—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an acid receiver a window-shaped framework, rigid in itself and made of acid-proof material, and comparatively thin, acid-proof plates fastened to the said framework and adapted to cover the openings of the same.

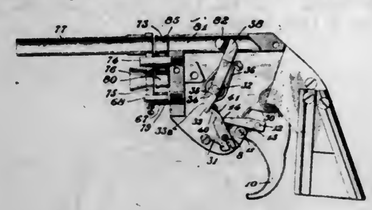
1,454,946. BROODER. MARY CHASE BARON, Hampden Meadows, R. I. Filed Aug. 26, 1920. Serial No. 406,185. 7 Claims. (Cl. 119—34.)



1. In a brooder, a heat-distributing member, a hood about said member, curtain supports about the periphery of said hood, curtains on said supports for inclosing the brooding chamber, and said supports being shiftably mounted on the hood to move the curtains bodily in a horizontal plane to open position from closed position.

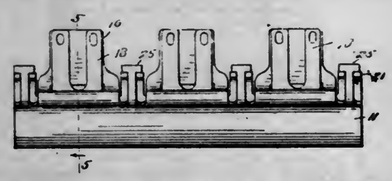
1,454,947. AMUSEMENT DEVICE. ARCHIE H. BECHTOL and WALTER A. TRATSCH, Memphis, Tenn. Filed Dec. 19, 1922. Serial No. 607,915. 17 Claims. (Cl. 124—15.)

1. In an amusement device, the combination of a propelling device; a trigger controlling said propelling device; means for pivoting said device for movement in a horizontal plane; means for pivoting said device for movement in a vertical plane; means to normally lock the mechanism; a safety means comprising a spring controlled pivoted member and preventing injury to said mechanism when the trigger is pulled while the



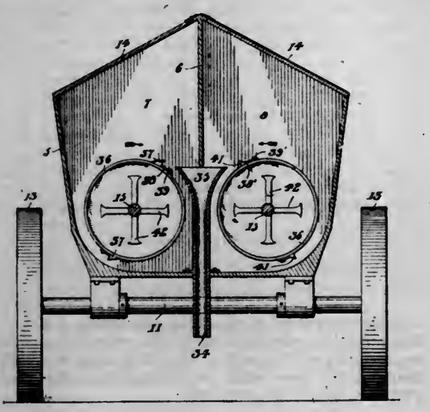
parts are locked; a target toward which balls may be fired from said device; and means for automatically returning the fired balls to said device.

1,454,948. RAIL COUPLING. EARL T. BENNINGTON, Colonial Heights, Ohio. Filed Nov. 29, 1920. Serial No. 427,111. 9 Claims. (Cl. 104—111.)



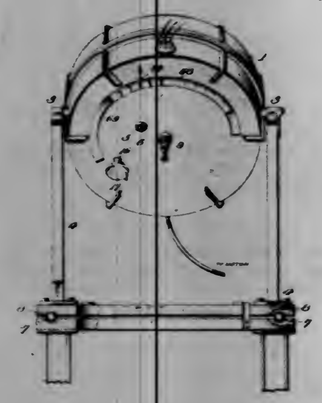
1. A coupling for two adjoining overhead rails comprising clamping members adapted to extend over and to produce clamping pressure down on the heads of the rails, and having detachably connected portions for engaging the webs of the rails.

1,454,949. PLANTING MACHINE. JOE BLATECKY, Racine, Wis. Filed June 7, 1921. Serial No. 475,753. 2 Claims. (Cl. 221—122.)



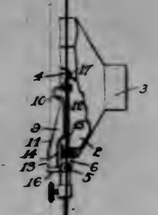
1. In a planting machine, an upright delivery tube, a receptacle in which said tube is substantially centrally mounted, a partition in the receptacle dividing the same into non-communicating compartments arranged side by side with the upper end of the said tube being outwardly flared and communicating with both of said compartments, and means for delivering material from each of said compartments intermittently and simultaneously into the upper end of said tube.

1,454,950. OPTICAL SYSTEM. JAMES M. BOYLE, U. S. Army. Filed Oct. 15, 1918. Serial No. 258,241. 15 Claims. (Cl. 88—2.7.) (Filed under the act of Mar. 3, 1883, 22 Stat. L. 625.)



1. In an optical system, the combination of a reflector, means adapted to transmit thereto a succession of images of an object arranged to produce the effect of a single image in stereoscopic relief, and means cooperating with said image transmitting means to indicate the distance of the object when its image appears in stereoscopic relief.

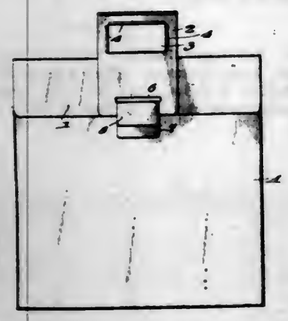
1,454,951. STYLUS FOR PHONOGRAPH REPRODUCERS. JULIUS A. BROWN, Peekskill, N. Y. Filed Aug. 13, 1921. Serial No. 491,971. 1 Claim. (Cl. 274—35.)



A stylus arm for a sound box, comprising a plate having a portion converging from the inner end outwardly to an intermediate portion, thereupon having a reduced portion, and then again converging from the reduced portion toward the outer end.

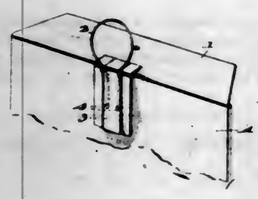
1,454,952. FASTENING AND HANDLE FOR PAPER ENVELOPES AND RECEPTACLES. JOHN W. BUNKER and ASHTON M. BONEY, New York, N. Y., assignors to Service Bag Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 28, 1921. Serial No. 448,180. 2 Claims. (Cl. 229—68.)

2. The combination, with a receptacle and flap, of a handle secured to one of said parts, said handle having two slots, one for the fingers in carrying the receptacle, and a fastening device secured to one of said parts and



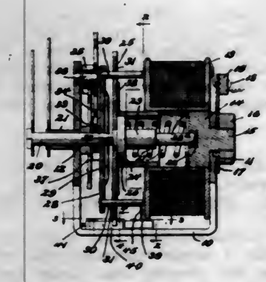
its free end adapted to enter the other slot in the handle and be bent back to secure the flap and receptacle together.

1,454,953. PAPER ENVELOPE OR BAG. JOHN W. BUNKER and ASHTON M. BONEY, New York, N. Y., assignors to Service Bag Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 26, 1921. Serial No. 448,181. 1 Claim. (Cl. 229—52.)



The combination with a receptacle, of a handle in the form of a loop secured at the open end thereof, the ends of said handle bent upwardly to form hooks which hook beneath a portion of the material and a reenforcing strip attached to the envelope at the point where the handle is fastened.

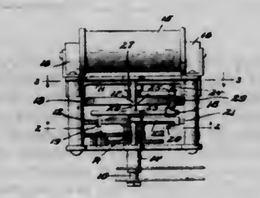
1,454,954. SECONDARY ELECTRIC CLOCK. THADDEUS STEPHENS CASNER, Plainfield, N. J., assignor, by mesne assignments, to George Rawak, New York, N. Y. Filed Aug. 31, 1920, Serial No. 407,160. Renewed Sept. 21, 1922. Serial No. 589,686. 14 Claims. (Cl. 58—26.)



1. In a secondary clock, in combination, a frame, a disk member and a cam member mounted in said frame

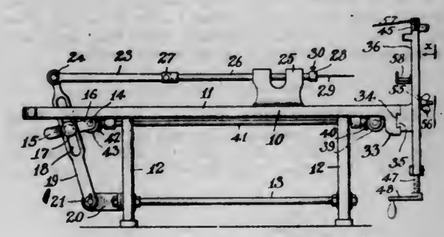
for relative rotation about the axis of the disk and relative linear movement parallel to the axis of the disk, and means for effecting axial movement of said disk member relatively to said cam, whereby they are brought into engagement and relative rotation produced, for the purpose set forth.

1,454,955. CLOCK. THADDEUS STEPHENS CASNER, Plainfield, N. J., assignor, by mesne assignments, to George Rawak, New York, N. Y. Filed Sept. 18, 1920, Serial No. 411,070. Renewed Sept. 21, 1922. Serial No. 589,685. 5 Claims. (Cl. 58—26.)



1. In a clock mechanism, the combination of a minute hand and its supporting shaft, means to impart a step by step forward movement to said hand, and an inertia device arranged to control or regulate said forward movements.

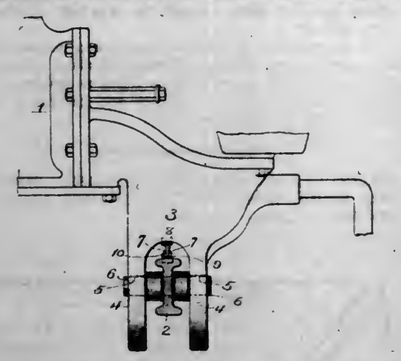
1,454,956. APPARATUS FOR MANUFACTURING HAIR GOODS. THEOPHILE CHARLES, New York, N. Y. Filed Jan. 5, 1922. Serial No. 527,279. 14 Claims. (Cl. 132—51.)



1. An apparatus for manufacturing hair goods comprising a suitable main frame, a supplemental frame movably mounted in connection with the main frame, means for supporting a workpiece in connection with the supplemental frame in an angular position, means for supporting strands of hair in connection with the supplemental frame, and a member movably mounted upon the main frame and adapted to pass through said workpiece to engage and pull one of the strands of hair through said workpiece.

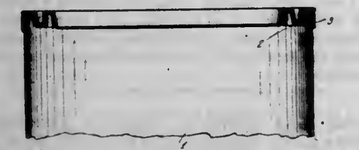
1,454,957. SAFETY DEVICE FOR TRACTORS. JOHN COCKRILL, Jackson, Tenn. Filed July 23, 1921. Serial No. 487,136. 3 Claims. (Cl. 180—82.)

1. The combination in a tractor, of an axle and a body movable vertically with relation to the axle and normally resting on the axle, electrical circuit closing means adapted for connection in the sparking circuit of the tractor, said circuit closing means having its respective members connected with the axle and the vertically mov-



able body and normally in contact whereby relative upward movement of the body will separate the members and break the circuit.

1,454,958. METAL CONTAINER. WILLIAM T. DAVIES, Cleveland, Ohio, assignor to The Patterson-Sargent Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 20, 1922. Serial No. 537,692. 1 Claim. (Cl. 220—42.)



In a device of the class described, in combination, a can; a top ring secured thereto, the said top ring being provided adjacent its inner periphery with an annular channel opening into the can and formed by two radially spaced, substantially parallel walls connected by a resilient bridge, the top ring also being provided with another annular channel of greater diameter than, but adjacent to the first channel and opening out of the can, this latter channel being formed by the outer wall of the first said channel a wall spaced radially outwardly therefrom and substantially parallel therewith and a resilient bridge connecting the two walls; and a cover having two annular channels, the side walls of which are adapted to engage frictionally with substantially all of the surfaces of each of the corresponding side walls of the annular channels in the top ring.

1,454,959. CELLULOSE-ETHER COMPOSITION. HENRY DREYFUS, London, England. Filed Nov. 16, 1920. Serial No. 424,511. 4 Claims. (Cl. 106—40.)

1. A composition of matter containing a cellulose ether and a high boiling aromatic low-carbon alkyl sulfonamide preparation which is liquid at ordinary temperature and becomes more viscous and gelatinous when cooled to low temperatures.

1,454,960. CELLULOSE-ARALKYL-ETHER COMPOSITION. HENRY DREYFUS, London, England. Filed Nov. 16, 1920. Serial No. 424,512. 1 Claim. (Cl. 106—40.)

A composition of matter containing an aralkylated derivative of cellulose and a high boiling aromatic low-carbon alkyl sulfonamide preparation which is liquid at ordinary temperature and becomes more viscous and gelatinous at low temperatures.

1,454,961. COMPOSITION CONTAINING CELLULOSIC DERIVATIVES. HENRY DREYFUS, London, England. Filed Nov. 16, 1920. Serial No. 424,513. 2 Claims. (Cl. 106—37.)

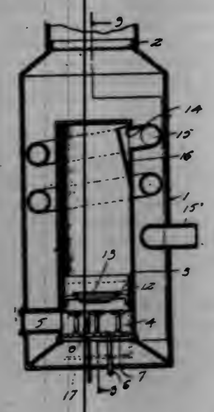
1. A composition of matter comprising nitrocellulose and a high boiling aromatic low-carbon alkyl sulfonamid preparation, which preparation is liquid at ordinary temperature and becomes more viscous and gelatinous when cooled to low temperatures.

1,454,962. AUTOMOBILE HAT HOLDER. MARK W. DYE, Seattle, Wash. Filed Apr. 18, 1922. Serial No. 554,769. 1 Claim. (Cl. 43—13.)



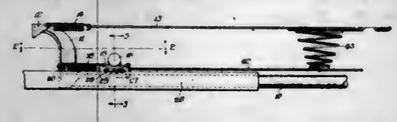
A hat holder made of a single piece of wire bent first in the middle into a hat loop, then twisted from the ends of said loop into an arm, then coiled from the ends of said arm into two spring coils, and then bent rearwardly from the outer ends of said coils into parallel and spaced apart arms, each adapted to be bent around a transverse bar in the top of an automobile and terminating in a hook adapted to hook around that portion of the arm adjacent the transverse bar for securing the hat holder in position.

1,454,963. GAS FURNACE. HARRY E. FENDRING, Los Angeles, Calif. Filed Nov. 16, 1920, Serial No. 424,430. Renewed Aug. 31, 1922. Serial No. 585,577. 1 Claim. (Cl. 126—116.)



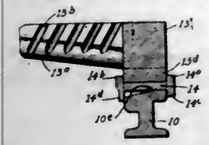
A furnace comprising an outer shell having a heat conducting pipe leading from its upper end, air intake means for the shell, an inner shell within the outer shell and in spaced relation thereto and having its upper end closed, means supporting the inner shell above the base wall of the outer shell, a firebox in the inner shell, passage means to the firebox through the shells, a fuel burner within the firebox, a band adjacent the firebox within the inner shell to protect the shell against excessive heat, a deflector supported by said band, a flue leading from the inner shell adjacent its top and through the outer shell, and a deflector in the inner shell over the entrance of the flue to cause the heat and by-products of combustion to strike said deflector before entering the flue.

1,454,964. BEDSPRING FRAME. BEN K. FORD, Oak Park, Ill., assignor to Union Bed and Spring Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1922. Serial No. 598,992. 6 Claims. (Cl. 5—210.)



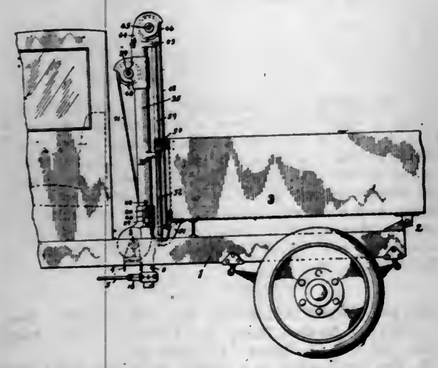
1. A mounting for a bed-spring frame adapted to rest on a bedstead side rail, comprising in combination, a sheet-metal plate element of the bed-spring frame having depending slotted end flanges, a supporting bar adjustable in the slots of said flanges and designed to bear on the bedstead siderail, a transverse element of the bed-spring frame, a sheet-metal socket member receiving said transverse element and having legs extended down through holes of said plate and bent over thereunder to fasten the parts together.

1,454,965. CHAIN GRATE. RANDOLPH E. SPENCER GRARE, Chicago, Ill. Filed Jan. 10, 1920. Serial No. 350,585. 7 Claims. (Cl. 110—40.)



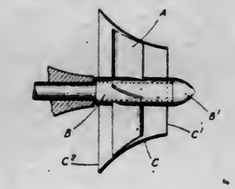
6. In mechanism of the class described, a supporting member, said supporting member having a seat, a grate bar having a portion engageable with said seat, and spring means to lock said bar in seated position.

1,454,966. TRUCK-BODY HOIST. FRANK G. GIBB, Detroit, Mich., assignor of one-half to Trevor G. Murton, Detroit, Mich. Filed Mar. 2, 1922. Serial No. 540,606. 9 Claims. (Cl. 298—21.)



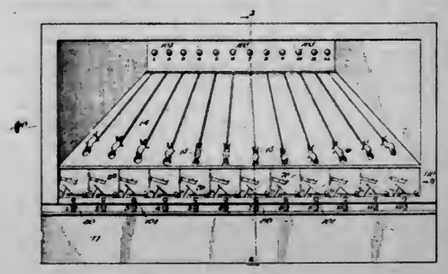
1. In a hoist, the combination of a horizontal shaft and a rope drum mounted thereon, a guide pivoted on said shaft, a ram slidable in the guide, a rope sheave at the upper end of the guide, a rope extending from the lower end of the ram over the sheave to the drum, a sheave at the upper end of the ram, and a rope extending from the body over the second sheave to the same drum.

1,454,967. SCREW PROPELLER AND SIMILAR APPLIANCE. JAMES HERBERT WAINWRIGHT GILL, Norfolk, England, assignor to Gill Propeller Company Limited, King's Lynn, England, a Company of Great Britain. Filed June 15, 1920. Serial No. 389,195. 5 Claims. (Cl. 170—168.)



1. In a screw propeller the combination of a hub, blades radiating from the hub, and a shroud mounted on the ends of the blades, the inner surface of the shroud having approximately the contour of a nozzle designed to give regular progressive increase in velocity or head to the fluid stream on which the propeller operates, and the blades having axial increase of pitch in the direction of flow through the shroud to conform with the acceleration of the water passing through the shroud.

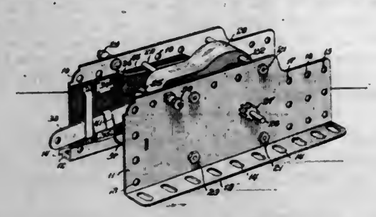
1,454,968. AMUSEMENT APPARATUS. MONNOSUKE HIGUCHI, College Point, N. Y. Filed July 12, 1921. Serial No. 484,117. 21 Claims. (Cl. 46—56.)



21. A game apparatus which comprises a missile, a casing within which said missile is disposed, means within the casing for throwing the missile, and circuit-operating means actuated by the missile when the missile is thrown by the skill of the operator in a predetermined manner.

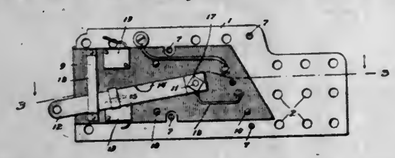
1,454,969. MOTOR. FRANK HORNBY, Liverpool, England, assignor to Meccano Limited, Liverpool, England, a British Corporation. Filed Apr. 28, 1920. Serial No. 377,169. 4 Claims. (Cl. 172—36.)

1. A terminal assembly for an electric motor comprising a slab of insulating material, brush-holders mounted thereon, a movable switch member mounted thereon and constantly connected to one brush-holder, and a pair of



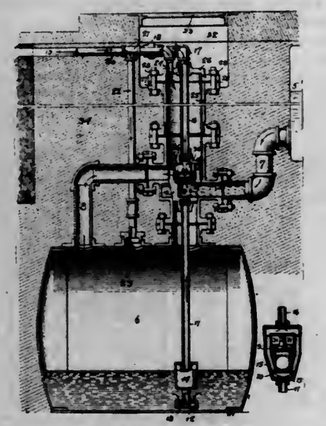
field connectible terminals also mounted on the slab, said terminals being cooperable one at a time with the switch member.

1,454,970. SWITCH. FRANK HORNBY, Liverpool, England, assignor to Meccano Limited, Liverpool, England, a British Corporation. Original application filed Apr. 28, 1920, Serial No. 377,169. Divided and this application filed Sept. 17, 1921. Serial No. 501,324. 6 Claims. (Cl. 200—164.)



2. In a switch, an insulating base, a pin projecting laterally therefrom, a relatively long strip of insulation pivoted on the pin, a T-shaped conducting strip shorter than the insulating strip having one end-portion wrapped about the pivoted end of the insulating strip and the arms of the T wrapped about the mid-portion of the insulating strip, and means for retaining the strips on the pin.

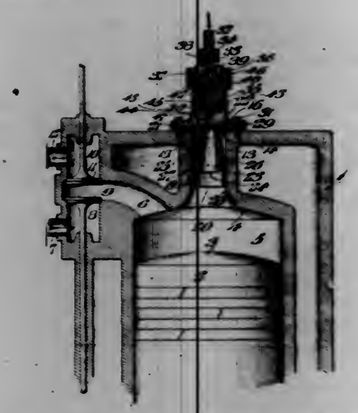
1,454,971. LIQUID-DISPENSING SYSTEM. SAMUEL DONNELLON LOVE, Rahway, N. J., assignor to Allen Pressure System Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 13, 1920. Serial No. 373,634. 6 Claims. (Cl. 221—74.)



1. In a liquid dispensing system, a storage tank, a working tank filled by gravity therefrom, a standard rising from the working tank, a discharge pipe passing

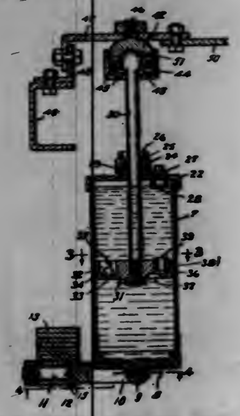
upward from the working tank through the standard, a non-return valve fitting arranged in said standard and connected to the discharge pipe and having a by-pass communicating with the latter, and a fill pipe opening through the standard to said non-return valve fitting and serving to convey liquid from the storage tank to the working tank through the non-return valve passage in said fitting.

1,454,972. BURNER FOR INTERNAL-COMBUSTION ENGINES. EDWARD L. LOWE, Palo Alto, Calif. Filed Dec. 29, 1922. Serial No. 609,777. 16 Claims. (Cl. 123—32.)



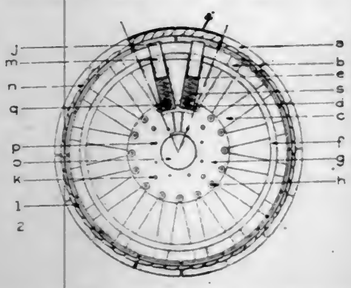
1. In a device of the character stated, a burner composed of an outer sleeve, an inner sleeve positioned within said outer sleeve, both of said sleeves being open and unobstructed at their lower ends, and flaring and of gradually increasing diameter in cross section, whereby a flaring ignition chamber is formed between said sleeves open at its bottom and a relatively large flaring combustion chamber is formed within said inner sleeve, said chambers being in communication at their upper and lower ends.

1,454,973. SHOCK ABSORBER. ANGUS P. MALLOY, Jr., Seattle, Wash. Filed Feb. 13, 1922. Serial No. 536,089. 4 Claims. (Cl. 188—88.)



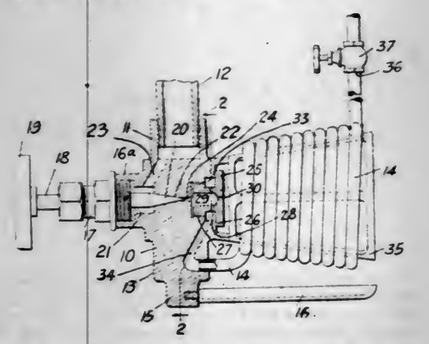
1. The combination with two relatively vibratory members, of a hydraulic cylinder arranged to be secured to one of said vibratory members, a piston reciprocable in said cylinder, a piston rod connected with said piston and having its outer end secured to the other vibratory member, a liquid by-pass extending through said piston, a valve plug for regulating the area of opening of said by-pass and a cover for said cylinder, said cover having an opening capable of being aligned with said screw plug to permit the adjustment of said valve plug.

1,454,974. ELASTIC WHEEL. PERICLES MARCHETTI, Godoy, Santa Fe, Argentina, assignor to Sindicato Argentino para la Explotacion de Inventos, Buenos Aires, Argentine Republic. Filed Aug. 25, 1919. Serial No. 319,709. 1 Claim. (Cl. 152—29.)



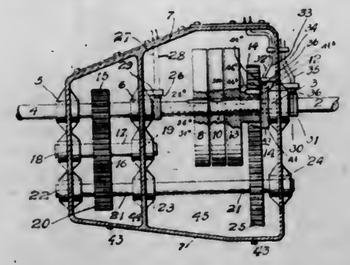
A wheel having a rim, radially movable spring projected spoke members projecting therefrom, segmental tire sections on the outer ends of the spoke members, arranged in closely spaced relation and provided with longitudinal grooves in their outer sides, and flexible cables connecting said tire sections together and arranged in said grooves, the depth of said grooves being such as to protect the cables and cause the outer peripheral surfaces of the tire sections to bear directly on the road surface.

1,454,975. LIQUID-FUEL BURNER. FRANK MARTINDELL, Brooklyn, N. Y., assignor to The Anthony Company, Long Island City, N. Y., a Corporation of New York. Filed June 24, 1920. Serial No. 391,455. 2 Claims. (Cl. 158—75.)



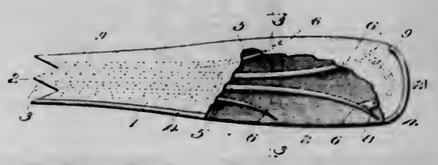
1. In a steam generating liquid fuel burner, the combination of a body casing having a fuel supply connection, a discharge nozzle of substantially cylindrical shape screwed into the said body casing, the said nozzle having a cylindrical mixing chamber open at one end for the inlet of fuel, orifices at its side walls and a small outlet opening, a fuel regulating valve within the body casing and located between the said fuel supply connection and the said discharge nozzle, a circularly coiled pipe at the outlet end of the burner having one end connected to a valved water supply and the other end to the body casing, a duct within the body casing connecting the latter end of the coiled pipe with the said orifices in the discharge nozzle, and a fuel pan below the said coiled pipe, fastened to the body casing.

1,454,976. REVERSE MECHANISM FOR MOTOR BOATS. IRA C. MATTHIESSEN, Ithaca, N. Y. Filed Nov. 2, 1921. Serial No. 512,356. 2 Claims. (Cl. 74—59.)



1. In a device for reversing the direction of rotation of the driven shaft of a motor boat, a drive shaft, a driven shaft in alignment with the drive shaft, a magnetic clutch comprising an intermediate magnetic member fixed on the drive shaft, a lateral magnetic member loose on the drive shaft and a lateral magnetic member slidable on the driven shaft, means for operatively connecting the loose magnetic member on the drive shaft with the driven shaft, and means for successively energizing said lateral magnetic members and said intermediate magnetic member and causing the slidable lateral magnetic member on the driven shaft to contact with the fixed intermediate magnetic member on the drive shaft for direct drive or causing the loose lateral magnetic member on the drive shaft to contact with the fixed magnetic member on the drive shaft, and through the means for operatively connecting said loose magnetic member with the driven shaft, reverse the direction of rotation of the driven shaft.

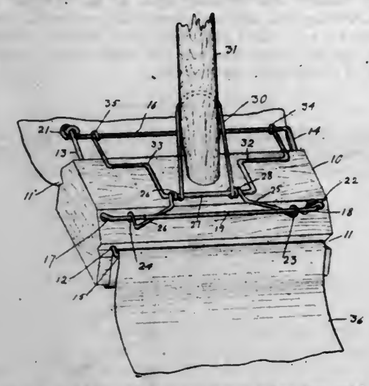
1,454,977. METAL PROPELLER FOR AEROPLANES, DIRIGIBLES, BALLOONS, AND THE LIKE. THOMAS MIDDLETON, Schenectady, N. Y. Filed Feb. 18, 1921. Serial No. 446,001. 20 Claims. (Cl. 170—159.)



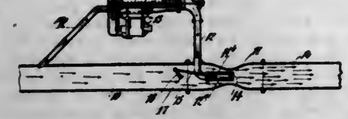
1. A propeller comprising relatively thin metal plates shaped to form the blades of the propeller, and a series of hollow tapered ribs interposed between the aforesaid plates and having their outer ends flared toward the opposite side edges of the plates for forming an interior support.

1,454,978. MOP HOLDER. JOHN MIKENAS, Amsterdam, N. Y. Filed Apr. 15, 1922. Serial No. 553,256. 3 Claims. (Cl. 15—231.)

1. A mop holder of the class described comprising a perforated base block, clamping frames having portions slidably disposed in the perforations in said block, means for drawing said frames into clamping engagement with said block to clamp a mop cloth to said block, and a handle for said block adapted upon being inserted in the handle socket to engage and to lock said frames in their mop clamping position.

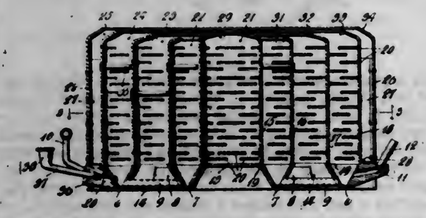


1,454,979. FUEL-FEEDING APPARATUS. JOHN E. MUHLFELD, Scarsdale, and VIRGINIUS Z. CARACRISTI, Bronxville, N. Y., assignors to Locomotive Pulverizing Fuel Company, New York, N., Y., a Corporation of Delaware. Filed Nov. 21, 1918. Serial No. 263,459. 3 Claims. (Cl. 302—36.)



1. In fuel feeding apparatus, the combination of a main conduit for passage of blast air, with a venturi therein; a smaller secondary conduit branching from the main conduit at a point on the way to said venturi and returning to the main conduit at the throat of said venturi, and having therein an air current of less velocity than the current in the main conduit; with a feeder in said secondary conduit for feeding fuel into the current therethrough, for delivery to and admixture with the main current.

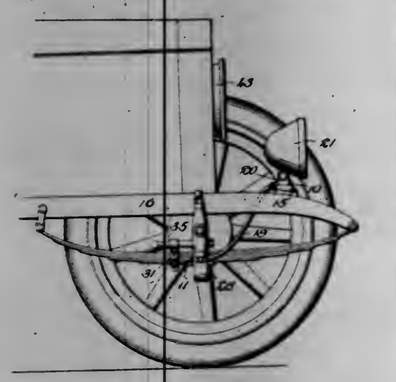
1,454,980. OIL BURNER. CLYDE W. MUMMERY, Richmond, Mich. Filed Oct. 21, 1922. Serial No. 596,058. 3 Claims. (Cl. 158—87.)



1. In a burner, spaced inner and outer circular troughs, and a pair of slotted shells mounted on each trough, said

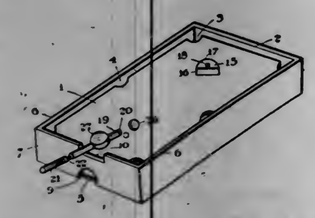
shells being concentrically arranged and forming annular combustion chambers above the troughs and an intermediate annular air chamber open at the bottom, and communicating thru said slots with the combustion chambers, the upper ends of the shells being flanged inwardly at the top to direct the air and combustion products toward the center of the burner.

1,454,981. DIRIGIBLE LIGHT FOR MOTOR VEHICLES. SUMNER E. ORR, Tacoma, Wash. Filed Nov. 7, 1921. Serial No. 513,413. 13 Claims. (Cl. 240—62.)



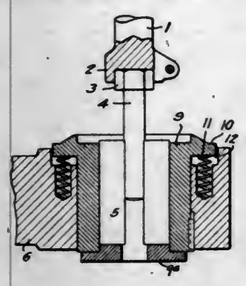
1. The combination with a vehicle having a frame and steering gear, of a dirigible lamp operating mechanism embodying a bracket mounted on the vehicle frame, a rotatably mounted lamp supporting plate, operatively disposed on said bracket; a single flexible rod joining said lamp supporting plate to the steering gear; a spring operatively disposed between said bracket and said plate whereby said spring at all times tends to rotate said plate against the force of said rod, whereby is provided a flexible yielding connector between the steering mechanism and the lamp for providing steadiness of the light, said rod functioning to impart steering movements to the lamp.

1,454,982. GAME. HENRY THOMAS PYE, Montreal, Quebec, Canada. Filed Sept. 14, 1921. Serial No. 500,568. 1 Claim. (Cl. 46—61.)



In a game, a board having box sides and a playing slot and ball return opening at one end, an inclined bottom secured in said slides having converging guides and inclined surfaces leading to said opening, a playing board flush with the bottom of said slot and having a plurality of curved openings at the corners and intermediately adjacent to the box sides, a cue in the form of a spring gun operating a ball and having a thumb rest intermediate of its barrel portion and a glancing block adjustable rotatably and having a flat ball surface and a semicircular ball surface for caroming the ball to the sides or board openings.

1,454,983. BOLT-TURNING MACHINE. CHARLES L. SAVIDO, Lima, Ohio, assignor to Walter H. Foster, New York, N. Y. Filed Apr. 13, 1921. Serial No. 461,089. 3 Claims. (Cl. 82—20.)



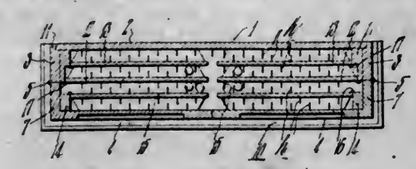
1. A machine for turning and facing headed bolts including in combination mechanism for securing relative feeding and rotary movement and a spring device arranged to hold the tool up to the work during the turning of the shank of the bolt and to yieldwhen the tool engages the face of the bolt head and therefore to cause a slower feeding movement near the end of the operation.

1,454,984. WELL-DRILLING APPARATUS. VICTOR A. STEWART, Brooklyn, N. Y., assignor of one-half to Rougier Thorne, Glen Cove, N. Y. Filed Apr. 4, 1921, Serial No. 458,327. Renewed Oct. 14, 1922. Serial No. 594,656. 8 Claims. (Cl. 255—76.)



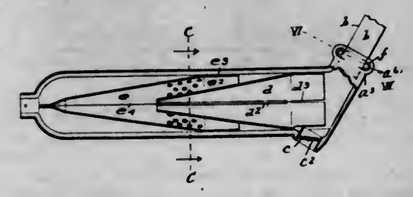
1. In a well-drilling aparatus, a rotary tubular shaft, a bit and a rope or cable connected with said bit for lowering or raising the same freely through said shaft, said bit comprising a stock or body portion transversely slotted in its lower end and a pair of blades pivoted within said slot and being heavier at their outer or cutting ends and adapted to be folded upwardly with their cutting ends uppermost when the bit is to be lowered through said shaft and to automatically unfold outwardly and downwardly on leaving the lower end of said shaft, and said blades on an upward pull of said rope to withdraw the bit through said shaft, being adapted to automatically fold together with their heavier ends downward, and the lower end of said shaft being adapted when the shaft is lowered to interlock with said blades for imparting movement thereto.

1,454,985. CABINET. WILLIAM J. TATE, Springfield, Mass. Filed Jan. 18, 1921. Serial No. 438,125. 2 Claims. (Cl. 211—7.)



1. A compactly constructed key cabinet comprising a rigid rectangular frame having two wide sides constituting top and bottom walls of the cabinet and two narrow sides constituting stationary side walls of the cabinet, said wide sides having their excess width disposed entirely in front of said narrow sides; two doors each comprising a relatively narrow strip hinged at one lateral edge to one of the narrow sides of said frame, and a wide panel rigidly secured to the opposite lateral edge of said strip and disposed at right angles thereto, said strips constituting movable side walls of the cabinet and said panels constituting the front walls thereof, plaques hinged to both the stationary and movable side walls of the cabinet; spacing strips rigidly secured to the rear sides of the plaques on the stationary part of the cabinet and to the front sides of the plaques on the doors, said strips being located adjacent the upper and lower edges of said plaques; and a plurality of key-supporting hooks carried by each of said plaques between said spacing strips.

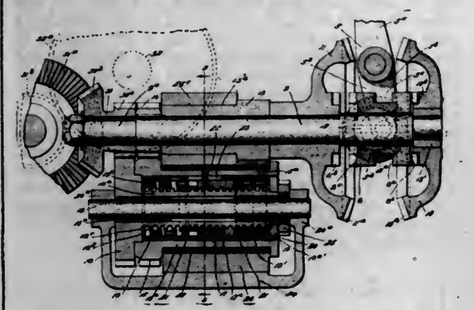
1,454,986. MUFFLER FOR INTERNAL-COMBUSTION ENGINES. HORACE T. THOMAS, Lansing, Mich. Filed Sept. 7, 1918. Serial No. 252,997. 4 Claims. (Cl. 137—160.)



1. A cylindric muffler composed of two semi-cylindrical complementary halves of pressed steel seamed together and having inlet and outlet openings, each of the halves carrying baffle plate sections fastened to it and extending diametrically across the muffler.

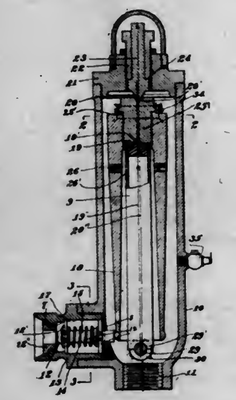
1,454,987. CUSHIONING DEVICE FOR REVERSING MECHANISM. HERBERT E. TOWNSEND, East Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed June 17, 1922. Serial No. 569,135. 4 Claims. (Cl. 74—98.)

1. A cushioned reversing and driving mechanism for reciprocating loads, having in combination, a clutch mechanism for rotating a shaft alternately in opposite directions, a longitudinally extending cushion-enclosing sleeve, means for engaging this sleeve with the driving shaft to impart rotary motion thereto, grooves formed on the inner periphery of said sleeve, a hollow cylindrical traversing nut containing on its outer periphery splines to engage the grooves in said sleeve, and threads on its inner periphery, a threaded sleeve adapted to engage the threads on the inner periphery of said traversing nut, a set of springs coiled around the threaded sleeve and enclosed



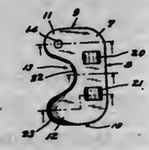
by the grooved sleeve, washers intermediate said springs and traversing nut, and means extending from the threaded sleeve to drive the reciprocating load.

1,454,988. TRAP. WILLIAM J. TURNER, Seekonk, Mass. Filed July 31, 1919, Serial No. 314,539. Renewed Oct. 10, 1922. Serial No. 593,656. 30 Claims. (Cl. 236—59.)



29. A trap having in combination a valve, an expansion member, and a lever intervening; the expansion member being a post having pivotal support at its end remote from the lever whereon it may swing to permit substitution of levers having short arms of various lengths.

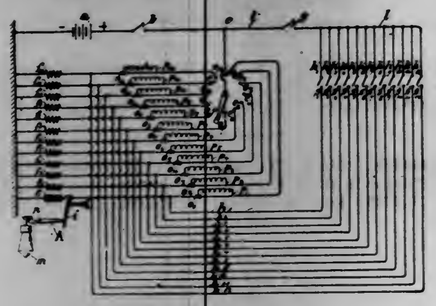
1,454,989. WINDOW-SASH-HOLDING DEVICE. WILLIAM F. WATKINS, Seattle, Wash., assignor to Watkins Appliance Company, Inc., Seattle, Wash., a Corporation. Filed Sept. 4, 1920, Serial No. 408,297. Renewed Nov. 11, 1922. Serial No. 600,480. 1 Claim. (Cl. 292—241.)



A window sash holder comprising a relatively thin metal plate having a rear edge provided with a centrally located indentation that forms a rearwardly projecting

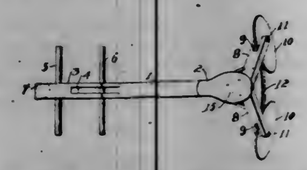
lug near each end, one of said lugs having a perforation therein, a reinforcing flange formed by bending the rear edge of said plate upwardly around said lugs and said indentation said flange at the location of said indentation being narrow and forming a stop and at the location of one of said lugs being wider and forming a fingerhold, and curved spring like friction members integral with the body of said plate and located near the front edge thereof.

1,454,990. BOMB-THROWING DEVICE FOR AIRCRAFT. OSCAR WILCKE, Friedrichshafen, Germany, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,576. 11 Claims. (Cl. 244—1.



1. In a system for releasing bodies from aircraft in combination, a source of electric current, a main and a plurality of shunt circuits adapted to be connected with said source of current, a plurality of suspension devices and of electromagnets adapted to cooperate therewith and to be inserted in parallel in said circuits, a switch in each shunt circuit and a distributing switch adapted to insert said electromagnets, one after the other, in said main circuit.

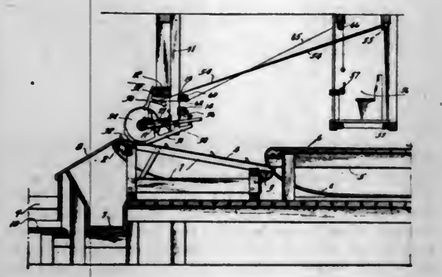
1,454,991. AMUSEMENT DEVICE. WINFIELD WILLIAMS, San Jose, Calif., assignor to J. F. Patterson and Hortense Bean, a Copartnership operating as Patterson-Williams Mfg. Co., San Jose, Calif. Filed Nov. 10, 1920. Serial No. 423,163. 5 Claims. (Cl. 46—27.)



1. A device of the character indicated comprising a supporting member, a swivelling wheel mounted thereon, a seat member mounted at one end on said supporting member, a seat thereon facing said supporting member, and revoluble means adapted to travel in a circular path about the vertical axis of said swivelling wheel operatively mounted to support the other end of said seat member.

1,454,992. AUTOMATIC LUMBER TRIMMER. CHARLES W. WILLETTE, Seattle, Wash. Filed Nov. 30, 1921. Serial No. 518,871. 9 Claims. (Cl. 143—41.)

1. The combination with a lumber conveyer and an overhanging structure, of a horizontal, driven shaft supported from said structure, a saw frame pivotally mounted upon the said shaft, a saw mounted within the frame, means connected with the shaft for driving the saw, a lifting shoe pivotally fixed to the saw frame with an end portion thereof extended within the path of lumber advanced by the conveyer, a lever pivotally mounted on the saw frame having its lower end normally engaging a part of the shoe whereby upward movement of the latter effects like movement of the saw frame, a locking arm



pivotally fixed to the supporting structure with its lower end normally disengaged from the locking lever, and means for actuating the locking arm into engagement with the latter to thereby retain the saw frame against upward movement and to cause said lever to be moved pivotally sufficiently to cause it to disengage the shoe so as to permit free pivotal movement of the latter.

1,454,993. VISE. HENRY R. BOTHWELL, Cincinnati, Ohio, assignor to Samuel Newman, Cincinnati, Ohio. Filed July 1, 1921. Serial No. 481,872. 16 Claims. (Cl. 90—61.)



1. In a vise, a pair of jaws, one jaw being movable toward and away from the other jaw, guiding means for said jaws, a screw, a nut on said screw, and a member movably engaging said nut and said one jaw, for simultaneously forcing said one jaw toward the other jaw and toward said guiding means.

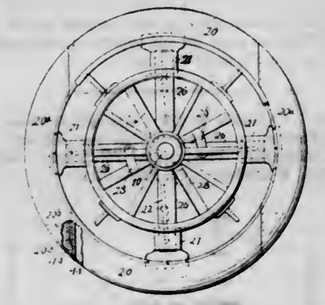
1,454,994. CIGAR CUTTER. LEWIS DE MATTEO, Newark, N. J., assignor to Durand & Company, Newark, N. J. Filed Apr. 4, 1921. Serial No. 458,206. 2 Claims. (Cl. 131—38.)



2. A device of the kind described comprising cheek pieces forming a body portion and spaced apart and having substantially circular ends and having aligned

openings, a cutter pivoted at its rear edge between the cheek pieces and having a thin central portion to form a blade to shear across one of said openings, a shield along the bottom and part way up the end of the cheek pieces, the cutter having a shoulder to engage one end of the shield when the cutter is shut, the cutter also having a recessed part opposite the other end of the shield, and a spring-pressed latch to engage the cutter.

1,454,995. COLLAPSIBLE TIRE CORE. HAROLD A. DENMIRE, Akron, Ohio, assignor of one-half to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 23, 1920. Serial No. 375,989. 7 Claims. (Cl. 154—9.)



1. In a collapsible core, the combination of a shaft, a collar thereon having two diametrically opposed radial guide bars, two core sections, brackets fixed to said core sections and slidably supported on said guide bars respectively, a wheel which is rotatably mounted on said sleeve and has two crank pins, and links which respectively connect said crank pins and core section brackets.

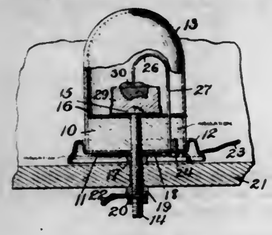
6. In a collapsible tire core, the combination with a shaft, two pairs of core sections, each pair being radially movable in paths at right angles to the paths in which the other two core sections move, mechanisms for moving said two pairs of tire sections toward and away from the axis of the shaft, each core section comprising a sheet metal shell and solid end plugs secured in the ends thereof.

1,454,996. CUTTING AND WELDING TORCH. THOMAS A. EERETT, WILLIAM P. BROWN, and HUGH F. BROWN, San Francisco, Calif. Filed Oct. 21, 1921. Serial No. 509,295. 1 Claim. (Cl. 158—27.4.)



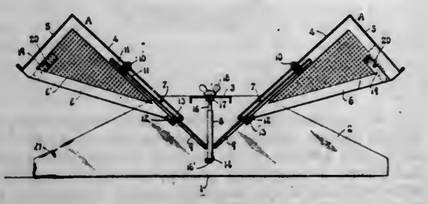
In a torch of the character described, a handle member having a casting at one end thereof provided with an outer end socket; said socket having shoulders formed interiorly thereof and terminating at its inner end in a pocket, and channels in said casting, through which gas may be directed, opening into the base of said pocket and into the socket between said shoulders, a torch member threaded into said socket having a bore in the end thereof and having channels leading from the base of said bore through which gas can be directed to the torch tip, and a plug having one end fitted within said bore and its opposite end extended into said socket and provided with shoulders engageable with said socket shoulders forming an annular chamber about the plug, and having a reduced end extending into said pocket; said reduced end having a transverse channel therethrough, and said plug having longitudinal channels therein opening into the channels of the torch member and at their opposite ends into the annular chamber about the plug and the transverse channel at the end thereof.

1,454,997. CRYSTAL DETECTOR. GAETANO GRECO and KARL G. WOLFF, Newark, N. J. Filed Apr. 18, 1922. Serial No. 554,555. 3 Claims. (Cl. 250—31.)



1. A crystal detector comprising a block of insulating material, a bottom plate on which the block rests, a screw secured to the block and passing through the bottom plate and a material distance therefrom to form a support, a nut on the screw, a washer of insulating material between the nut and the bottom plate, a block of metal on the insulating block and electrically connected to the screw, a crystal in the block of metal, and a wire having one end in electrical contact with the bottom plate, said wire extending through the block of insulating material and having its end bent over and in contact with the crystal.

1,454,998. ANIMAL TRAP. LOUIS HARGE, New Memphis, Ill. Filed Oct. 4, 1922. Serial No. 592,232. 11 Claims. (Cl. 43—61.)

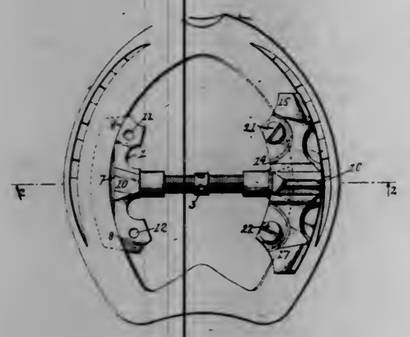


1. An animal trap comprising a housing provided with a door, a rotary tripping member, a trippable member pivoted to said door and engaged with the periphery of said rotary tripping member to retain the door in its open position, said trippable member being movable on its pivot to pass from said tripping member, and a bait holder whereby said rotary tripping member is turned to release said trippable member.

1,454,999. NONSLIP DEVICE FOR HORSES. MICHAEL HALLAHAN, New York, N. Y. Filed Feb. 11, 1921. Serial No. 444,207. 5 Claims. (Cl. 168—30.)

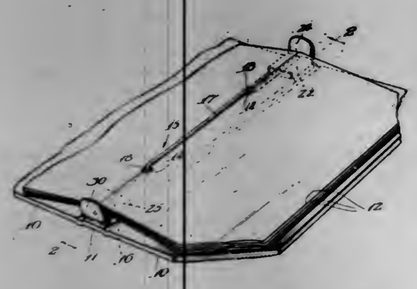
1. A non-slip device for horses, composed of a pair of opposed members each provided with means for engaging

the inner side portions of a horseshoe, means for forcing the members into contact with a shoe, and calks on the



bearing face of each member, one of which is transverse of the member and the other two longitudinal thereof on either side of the first calk.

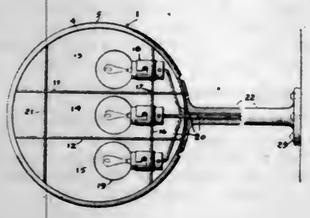
1,455,000. TEMPORARY OR LOOSE-LEAF BINDER. FREDERICK H. HARRIS, Chicago, Ill. Filed Oct. 27, 1920. Serial No. 419,926. 10 Claims. (Cl. 129—1.)



3. A temporary or loose leaf binder comprising a retaining member having an intermediate raised offset and plain ends adapted to be inserted through apertures in the sheets, a supporting member embracing sockets in which the ends of the retaining member normally lie, and locking means for normally holding the retainer member from endwise movement.

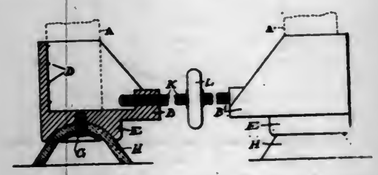
1,455,001. STOP AND TURN SIGNAL. YAKICHI HONDA, Fowler, Calif. Filed July 26, 1922. Serial No. 577,534. 4 Claims. (Cl. 177—329.)

2. A stop and turn signal comprising a circular casing, glass lenses comprising the side walls of the casing and having stop and turn designations appearing thereon, partitions dividing the interior of the casing into compartments opposite which copartments the said designations are arranged, said partitions engaging along their longitudinal edges the lenses, a member for supporting illuminating means extending at right-angles to and through said partitions and having its longitudinal edges spaced from the lenses, means of illumination supported by said member within the respective compartments and



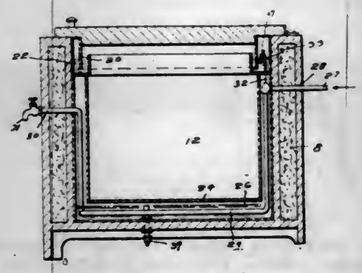
a brace member extending at right angles to and through said partitions at ends thereof opposite to the member for supporting the illuminating means.

1,455,002. LADDER FOOT. ALBERT JOHNSON, Liverpool, England, assignor to Thomas Henshaw, Liverpool, England. Filed June 25, 1919. Serial No. 306,756. 3 Claims. (Cl. 228—61.)



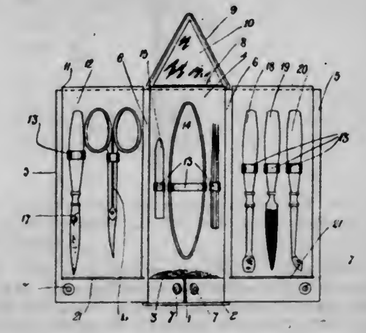
1. In a device of the character described, the combination of a pair of metallic members, each member having a socket formed therein for the reception of a ladder foot; a suction pad secured to the under face of each of said metallic members; and an adjustable connection between said metallic members for drawing the same together whereby the feet of a ladder may be securely held in place within said socketed members.

1,455,003. ICE BOX OR REFRIGERATOR. CLIFFORD S. JOHNSON, Mobile, Ala., assignor of one-half to Moreland M. Marsh, Mobile, Ala. Filed Sept. 18, 1922. Serial No. 589,021. 2 Claims. (Cl. 62—83.)



1. In an ice box construction an outer box and an inner box, the latter being divided into three compartments, the central one of which constitutes an ice compartment, the other of said compartments being chilled by the ice in said central compartment, a water receiving trough extending about the upper portions of all of said compartments and a cover for each of said compartments, each of said covers having a depending flange extending entirely therearound and entering the water in said trough when said covers are in closed position as and for the purposes stated, a service water supply pipe extending through the ice receiving compartment, a branch extending from the service water supply pipe into the said trough and a float valve controlling the flow of water from said branch into said trough for maintaining a uniform water level in the trough.

1,455,004. CASE FOR MANICURE INSTRUMENTS. SIEGFRIED HENRY KAUFMANN, London, England. Filed Oct. 22, 1921. Serial No. 509,692. 5 Claims. (Cl. 132—79.)



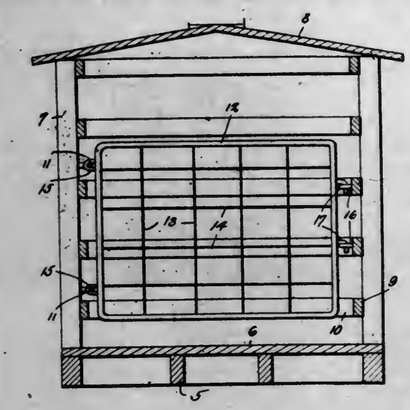
5. In a case for manicure instruments, a triangular base, a fixed back secured in an upright position at one side of the base, hinged sides connected to the back and adapted to turn about the hinged connection to the open position, loops for supporting the instruments upon the inner wall of the upright back and hinged sides and snap button fastenings on the lower edges of the sides to engage the base and a lid hinged along the top of the upright sides to turn down and engage over the upper edges of the hinged sides, a receptacle in the base for powder and puff and projecting flaps on the hinged sides to engage over and close the receptacle when the hinged sides are folded together.

1,455,005. PROCESS OF PRODUCING ANHYDROUS METALLIC CHLORIDE. BERT S. KIRKPATRICK, San Pablo, and FRANK S. MORGAN, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a Corporation of California. Filed Sept. 18, 1920. Serial No. 411,137. 4 Claims. (Cl. 23—13.)

1. The process of producing metallic chloride which consists in forming an alloy between the metal whose chloride is to be formed and a second metal having a chloride forming or vaporizing temperature higher than that of the first metal, which alloy has a melting temperature between the chloride forming and vaporizing temperature of the first metal and such other metal and below the melting point of said first metal, bringing the alloy to a molten state, contacting with chlorine, and collecting the resultant metallic chloride.

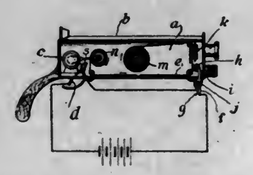
1,455,006. STOCK CAR. JAMES H. KOON, Onarga, Ill. Filed Jan. 8, 1921. Serial No. 435,898. 1 Claim. (Cl. 119—11.)

In a stock car, supporting rods secured to one wall of the car, gate members having loops formed at one end thereof and adapted to embrace portions of the supporting rods, hook members at the opposite end of the gate members, keepers secured to the opposite wall of the car,



said keepers adapted to receive the hook members of the gates, to secure the gates in various positions of adjustment.

1,455,007. APPARATUS FOR PRACTICING SIGHTING AND DETERMINING PHOTOGRAPHICALLY THE DEVIATION ERRORS. OSKAR MESSTER, Berlin, Germany, assignor to N. V. Aerofoto, Amsterdam, Netherlands, a Firm. Filed May 29, 1919. Serial No. 300,766. 1 Claim. (88—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

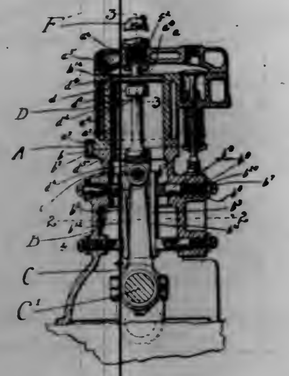


An apparatus for practicing sighting and determining photographically the deviation errors comprising a cylindrical casing having end walls closing said casing and representing in contour a machine gun, a handle provided at one end wall of said casing, a photographic apparatus arranged within said casing and including a lens carried by the other end wall of the casing, a strip film feeding mechanism arranged within said casing, an electric motor for actuating said film feeding mechanism, an electric circuit in which is included said motor, a switch arranged within said casing and included in said electric circuit, a trigger arranged adjacent said handle and operatively connected to said switch, a circuit breaker carried by said casing and included in said electric circuit, said circuit breaker comprising a spring pressed lever, a roller carried by said lever and adapted to rest upon said film strip whereby the circuit breaker will be kept closed and sighting means arranged upon said casing parallel with the optical axis of said photographic apparatus whereby a series of pictures may be taken to ascertain whether the apparatus has been sighted correctly.

1,455,008. INTERNAL-COMBUSTION ENGINE. JOHN T. RAUEN, Dayton, Ohio. Filed July 12, 1920. Serial No. 395,803. 5 Claims. (Cl. 74—84.)

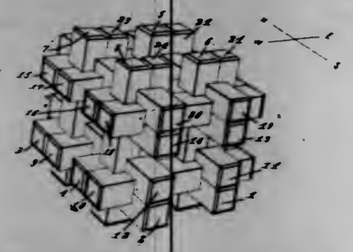
1. In a combustion engine having a base chamber casing the combination with a cylinder, of a piston rod ex

tending thru the cylinder top, a head bearing for one end of the piston rod and mounted on the cylinder top, a piston mounted on the rod and within the cylinder,



a guide block upon the piston rod, guide plates for the guide block, and means to take up wear of the block and of the guide plates.

1,455,009. PUZZLE BLOCK. WILLIAM H. SCHENK, Gladstone, Nebr. Filed Aug. 5, 1922. Serial No. 579,887. 1 Claim. (Cl. 46—41.)

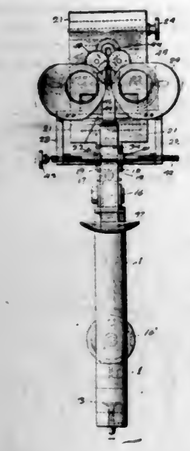


A puzzle of the class described comprising twenty bars, certain of which are arranged in two sets, the sets being disposed in parallel planes, each set including two spaced groups, and each group embodying a pair of bars disposed edge to edge, others of the bars being arranged in two other sets, said other sets being disposed in parallel planes at right angles to the planes in which the first specified sets are located, each of said other sets including two spaced groups, and each group embodying a pair of bars disposed edge to edge, the bars of the groups of each set being notched to receive the bars of a group of the other set in interlocking relation, and to form passages; four others of the bars being disposed at right angles to the bars of the sets and being notched for interlocking engagement therewith, no two of the bars being notched alike; and four plain keys being inserted into the passages, parallel to said four bars, and in edge to edge relation therewith.

1,455,010. METHOD OF DRILLING WELLS. JOHN C. SWAN, Marietta, Ohio. Filed Oct. 29, 1919. Serial No. 334,126. 6 Claims. (Cl. 255—1.)

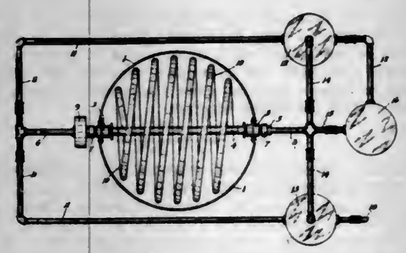
1. The method of drilling cased wells which consists in carrying out the drilling operations with an anti-corrosive liquid more viscid than water, and having a higher specific gravity than water.

1,455,011. OPTICAL INSTRUMENT. JOHN T. THOMPSON, San Francisco, Calif. Filed July 19, 1920. Serial No. 397,277. 5 Claims. (Cl. 88—20.)



1. An optical instrument comprising a pair of lens cells; means for adjustably supporting said cells; and means engaging said cells whereby the same may be rotated simultaneously either in the same or opposite directions.

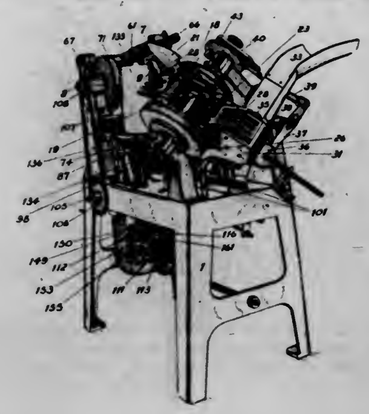
1,455,012. CREAM RIPENER AND PASTEURIZER. CARL J. WESTERGAARD, Minneapolis, Minn. Filed June 30, 1921. Serial No. 481,689. 1 Claim. (Cl. 257—79.)



A cream ripener and pasteurizer having in combination a base having a circular top, a single vertical cylindrical vessel secured to said base and of substantially the same diameter as the top thereof, bearings at opposite sides of said vessel extending through the walls of the same, a pipe rotatably mounted in said bearings and a coil secured to said pipe and communicating therewith at its ends, the longitudinal axis of the coil thus being normal to the axis of said vessel, said coil having its convolutions of different diameter conforming to the curvature of said vessel.

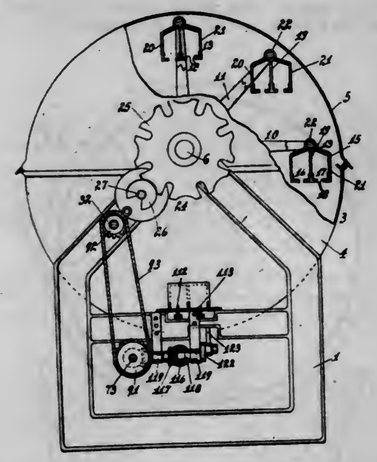
1,455,013. CANNING MACHINE. JOHN F. ANDERSON, Oakland, Calif. Filed Sept. 18, 1917. Serial No. 191,922. 18 Claims. (Cl. 226—96.)

1. An improvement in canning machines of the character described comprising a feed trough, a cutter operating transversely of said trough, a filling chamber, independently movable primary feed members to advance



the material cut, and means cooperating with said feed members to transfer material from said trough to said filling chamber.

1,455,014. CAN EXHAUSTER. JOHN F. ANDERSON, Oakland, Calif. Filed Mar. 22, 1922. Serial No. 545,779. 12 Claims. (Cl. 126—272.)



1. In a can exhauster, a heated drum, a reel mounted in said drum, said reel including a plurality of pivotally suspended longitudinal shelves, means for intermittently rotating said reel, a feeding mechanism for feeding the cans into the forward end of the lowermost shelves while said shelves are at rest in said position, said feeding mechanism including a delivery conveyor, notched wheels extending into one side of the delivery end of said conveyor for engaging the cans and delivering them from the delivery end of said conveyor, star wheels adjacent the delivery end of said conveyor for receiving the cans delivered therefrom, a pair of guideways extendings from said star wheels to a point corresponding to the lowermost position of the reel shelves into one of which guideways said star wheels deliver alternate cans, and a pusher rod for delivering the other alternate cans from said star wheels into the other guideway; means for advancing the cans through said guideways onto said reel shelves and rearwardly through said shelves, and a discharge mechanism at the rear end of the reel to receive the cans advanced through the reel shelves.

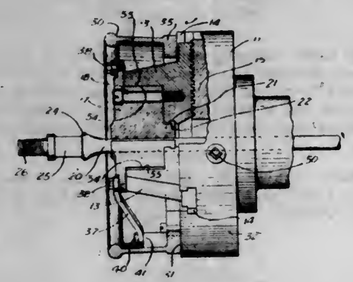
1,455,015. SOAP. FREDERICK C. ATKINSON, Indianapolis, Ind., assignor to American Hominy Company, Indianapolis, Ind., a Corporation of New Jersey. Filed Apr. 5, 1919. Serial No. 287,856. 2 Claims. (Cl. 87—5.)

1. A toilet soap consisting of toilet soap stock combined in an intimate mixture with corn meal and finely ground corn-cob cellulose, substantially as set forth.

1,455,016. PROCESS OF PRESERVING COTTON SEED. FREDERICK C. ATKINSON, Indianapolis, Ind. Filed May 3, 1919. Serial No. 294,609. 3 Claims. (Cl. 99—5.)

3. The process of treating cotton seed for the purpose of preserving the same against deterioration due to fermentation which consists in mixing from five to ten per cent of dry, pulverized, cereal product with the seeds and allowing the seed to remain in contact with said pulverized product for a considerable period of time.

1,455,017. SWING-JAW CHUCK. CHARLES F. AXELSON, Los Angeles, Calif., assignor to Axelson Machine Co., a Corporation of California. Filed May 31, 1922. Serial No. 564,995. 4 Claims. (Cl. 279—114.)

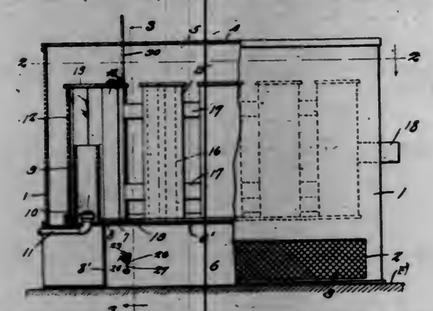


1. In a device of the class described, the combination of: a plurality of radially disposed jaw blocks; means for imparting radial movement to said blocks; jaw members pivoted on said blocks; a ring member mounted exteriorly of said jaw members, said ring member being provided with means for manually gripping same; and links operatively disposed between said ring and said jaw members whereby said jaw members may be swung between their active and inactive positions.

1,455,018. FURNACE. BENJAMIN F. CALDWELL, Pomona, Calif. Filed Aug. 9, 1921. Serial No. 490,990. 2 Claims. (Cl. 126—116.)

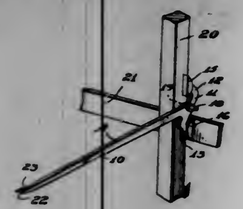
1. A furnace including a casing having an air inlet and an air outlet adjacent the bottom and top thereof respectively, a housing within and spaced from the walls of the casing, a combustion tube extending upwardly from the housing, a fresh air box projecting into the housing and opening into the combustion tube, a burner supported within the combustion tube, radiators mounted on the housing and within and spaced from the casing,

one of said radiators enclosing the combustion tube, air flues exteding through the radiators and communicating



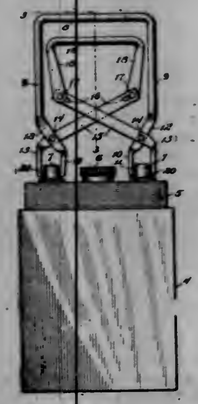
with the housing, and means for directing fresh air into the housing in controllable quantities.

1,455,019. BOARD-STRIPPING DEVICE. THOMAS CAMERON, Bennington, N. H. Filed June 12, 1922. Serial No. 567,870. 5 Claims. (Cl. 254—131.)



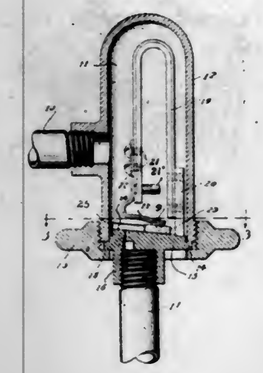
1. A board stripping device, comprising a shank, an obliquely disposed arm rigidly connected intermediate of its length to one end of the shank, means pivotally mounted at one end of the arm designed to engage a board, and means on the arm adapted to provide a fulcrum.

1,455,020. GRAPPLE. HARRY COLLINS, Sweetwater, Tex. Filed Feb. 3, 1922. Serial No. 533,910. 5 Claims. (Cl. 29—84.)



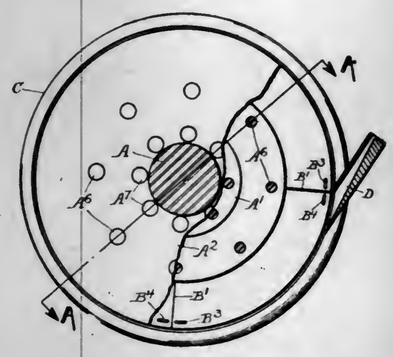
1. In a device of the class described, a pair of spaced fixed jaws, movable jaws for each of said fixed jaws, a movable hand grip, and toggle mechanism connecting the hand grip with said movable jaws.

1,455,021. AUTOMATIC STEAM TRAP. GEORGE W. COLLIN, Bridgeport, Conn. Filed July 30, 1921. Serial No. 488,544. 6 Claims. (Cl. 236—59.)



4. In a steam trap, a chamber, a thermo loop, one end of which is secured within the chamber, a thermo plate secured to the free end of the thermo loop, adjustment means for changing the relation of the loop and plate, and a slide valve carried by said thermo plate.

1,455,022. TURBINE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle National Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 2, 1921. Serial No. 458,069. 7 Claims. (Cl. 253—50.)

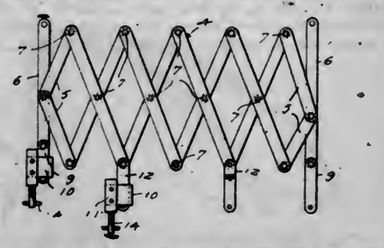


1. In a steam turbine rotor, a shaft, a plurality of annular plates mounted thereon, said plates being radially cut adjacent their periphery and bent between the cuts in planes inclined to the axis of rotation and to the plates themselves, to form a continuous substantially spiral steam passage, and spacing lugs on said plates adapted to hold the flat and the inclined portions in position.

1,455,023. LUGGAGE CARRIER. JOHN J. HANRAHAN, Niagara Falls, N. Y. Filed Sept. 23, 1921. Serial No. 502,651. 11 Claims. (Cl. 224—29.)

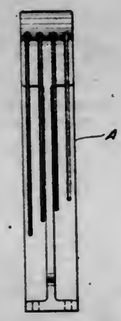
11. A luggage carrier comprising a longitudinally extensible body, supporting links pivoted to the lower end

of said body, said links having an offset portion, and clamps having eye pieces adapted to receive the links and



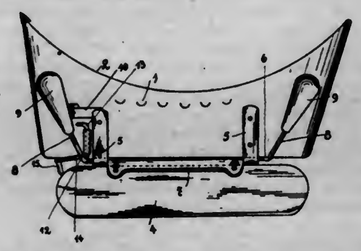
support said body, said offset portion limiting the movement of the links into said eyes.

1,455,024. CHIME-ROD HOLDER FOR CLOCKS. WALTER J. HERSCHEDE and WALTER EBERHARDT, Cincinnati, Ohio. Filed Sept. 6, 1921. Serial No. 498,821. 5 Claims. (Cl. 116—169.)



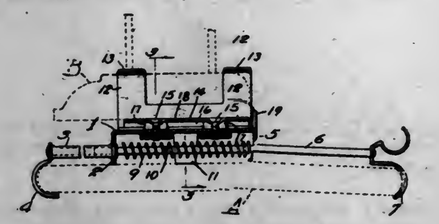
4 A chime rod holder comprising a base, a vibrating oar mounted at one of its ends upon the base, a shoulder formed on the other end of the vibrating bar, a rib extending over the base and vibrating bar and merging into the shoulder, and a head adapted to seat chime rods mounted on the shoulder.

1,455,025. SELF-ACTING EYE PROTECTOR. KARL KERN JENNY and WILHELM BALZER-ALBER, Basel, Switzerland. Filed Dec. 14, 1921. Serial No. 522,430. 4 Claims. (Cl. 2—149.)



1. A self acting eye-protector, comprising in combination, a screen or box, suitably shaped to fit around the eyes, a transparent shutter hingedly connected to said screen or box and balancing means, adapted to permit said transparent shutter to be opened or closed by a slight shaking of the wearer's head and then to remain opened or closed until another shake of the head is made.

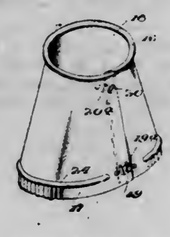
1,455,026. SAFETY SADIRON HOLDER. HANS L. JORGENSEN and ALEXANDER N. POULIN, Chicago, Ill. Filed June 29, 1916. Serial No. 106,622. 13 Claims. (Cl. 68—27.)



7. A flat iron holder comprising a rest for the iron, guard members positioned to engage the upper surface of the body of said iron to retain it upon the rest, said members being adjustable with respect to the rest for accommodating various sizes of irons, and securing means for attaching said holder to an ironing board.

13. A flat iron holder comprising a rest for the iron and means for supporting such rest on an ironing board and spaced therefrom, together with a hook rigidly associated with said rest and formed to engage one edge of the ironing board, a rod slidably mounted in the space between the rest and the board and provided at its outer end with a hook adapted to engage the opposite edge of the board, and a spring housed in the said space between the rest and the board and arranged to react upon said rod for yieldingly drawing the hooks toward each other.

1,455,027. STOVEPIPE-REDUCING JOINT. MARTIN LUDWIG, Albany, Oreg. Filed July 5, 1921. Serial No. 482,494. 1 Claim. (Cl. 285—203.)



As an article of manufacture, a stove pipe joint made of a single piece of sheet material arranged with its vertical edge portions in lapped relation and so fashioned as to provide a body having a greater area at its lower end than at its upper end, and having an outwardly extending flange at its upper end, said body having vertical corrugations extending from the lower end thereof so that the cross sectional area of the body is constant for the determined distance from the lower end thereof and decreases regularly toward the upper end of the body, means for fixedly securing the lapped portions together at the upper end of the body, and other means for securing the lapped portions together adjacent to their lower ends in various adjusted positions with respect to each other to vary the area of the body at the lower end thereof.

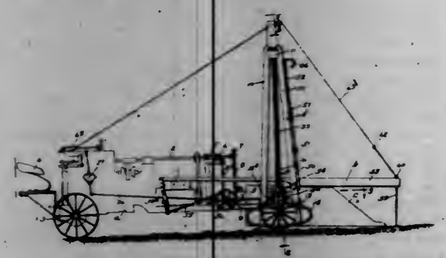
1,455,028. AIR-COOLED ENGINE CYLINDER AND METHOD OF MAKING SAME. ALVIN C. MCCORD, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 500,252. 11 Claims. (Cl. 29—156.4.)

1. An engine cylinder having its inner surface continuous and unbroken and constituting the wearing surface of the cylinder, a jacket fitting about the outside of said cylinder, heat radiating members on said jacket and

projecting outward therefrom, said jacket having parts extending into said cylinder wall and terminating short of the inner wearing surface thereof, and said jacket, members and parts being made of a metal of a greater heat conductivity than the metal of which the cylinder wall is made.



1,455,029. SHOCK LOADER. SWAN OLSON, Minneapolis, Minn. Filed Mar. 31, 1921. Serial No. 457,301. 12 Claims. (Cl. 214—113.)



1. A shock loading device comprising, a frame, a carrier, means for elevating and lowering said carrier in said frame, means for swinging said carrier about a horizontal transverse axis when elevated in said frame, and a rake member co-operating with said carrier, and independent means, respectively, for moving said rake to place the material on said carrier and for elevating said rake.

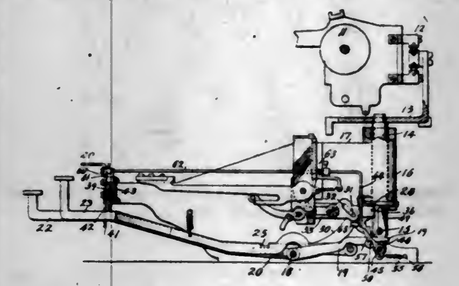
1,455,030. TYPEWRITER. LYMAN R. ROBERTS, Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn., a Corporation of Delaware. Filed May 22, 1920. Serial No. 383,397. 10 Claims. (Cl. 197—79.)



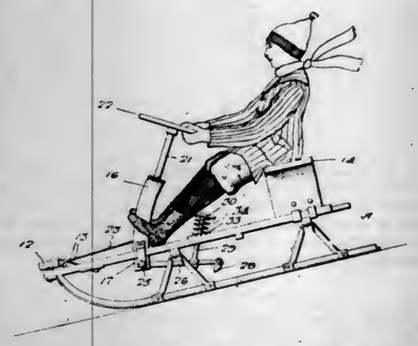
1. In a typewriter, and in combination, a frame, a case-shift unit movable in the frame and including a cross bar, a lifting lever for engaging said cross bar to case-shift said unit, a locking member anchored to said frame and normally hooking over said cross bar to hold the case-shift unit from movement out of normal position, and an actuating element having an operable connection with said locking hook and operable upon operation of the lifting lever to cause the removal of said locking member from locking position.

1,455,031. TYPEWRITER. LYMAN R. ROBERTS, Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn., a Corporation of Delaware. Filed Aug. 3, 1920. Serial No. 400,891. 9 Claims. (Cl. 197—79.)

1. In a typewriter, and in combination, a frame, a case-shift unit movable in the frame, a lifting lever for case-shifting said unit, a rock shaft journaled in the frame, a combined locking member mounted on said rock shaft and having an arm for hooking over a portion of said unit to prevent movement thereof out of normal position and a second arm normally out of operative position, for taking under a portion of said unit when in shifted position to hold the same in such position; a rocker arm on said rock shaft, and a pin on said lifting lever for engaging said rocker arm to rock said shaft, thereby to remove said first named arm out of locking position and to insert said second arm into operative position.



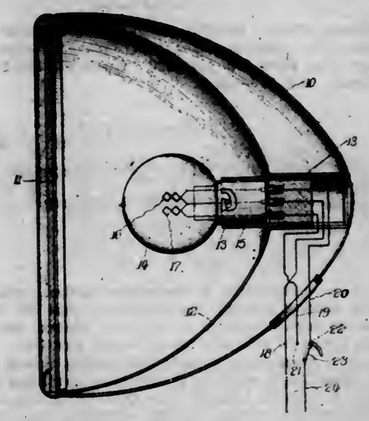
1,455,032. SLED. ANTONI SKUPIEŃ, Port Henry, N. Y. Filed Oct. 18, 1921. Serial No. 508,462. 2 Claims. (Cl. 280—22.)



1. The combination with the frame and steering rod of a sled, of a forwardly projecting reduced extension on the frame, strips pivotally connecting said extension and steering rod, a yoke shaped member vertically mounted on the frame provided with a central opening at the top and having its ends parallel on either side of the frame, a bar provided with an opening in alinement with that of the yoke and having its ends in parallel alinement with those of the yoke connected with said yoke, a steering post journaled through the openings in said yoke and bar, and flexible elements connecting the steering rod with the steering post and adapted to be alternately wound about and unwound therefrom upon turning of the steering post.

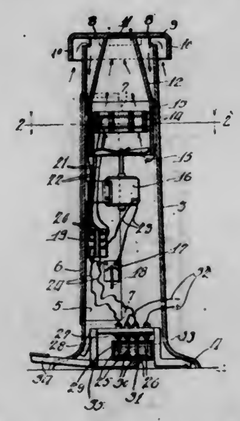
1,455,033. MULTIPLE-FILAMENT ELECTRIC-LAMP HEADLIGHT. HARVEY H. SLATER, Kenosha, Wis. Filed July 15, 1921. Serial No. 484,853. 1 Claim. (Cl. 240—41.)

In a head-light construction of the character described, the combination of a reflector, a multiple-filament electric-lamp bulb, and a single plug and associated socket to hold said bulb in said reflector, said bulb having two substantially-parallel closely-adjacent concentrated filaments directly opposite one another on opposite sides of the axis of the reflector at the focus thereof and



equally distant from such focus, said filaments being adapted to be rendered independently or simultaneously luminous and each having reflective action over the entire surface of the reflector.

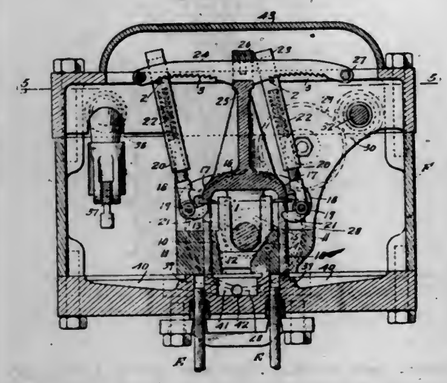
1,455,034. ELECTRICAL DRYING APPARATUS. JAMES W. SMALL, Chicago, Ill. Filed July 3, 1922. Serial No. 572,690. 14 Claims. (Cl. 34—26.)



1. Electrical drying apparatus comprising a casing having a plurality of openings in its top; an electrical heating element in the casing; and a partition in the casing separating said openings and adapted to direct air from certain of the openings to the heating element and from the latter to the other openings.

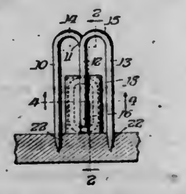
1,455,035. PUMP. BRUCE C. WHITE, New York, N. Y., assignor to R. Hoe & Co., New York, N. Y., a Corporation of New York. Original application filed July 7, 1915, Serial No. 38,528. Divided and this application filed June 1, 1918. Serial No. 237,702. 3 Claims. (Cl. 103—168.)

1. A multiple pump consisting of a frame carrying a series of pump chambers and plungers, said pump chambers opening for suction and discharge in the line of movement of the plungers, suction and discharge chambers, a second frame movable transversely to the line of movement of the pump chambers, carried by the first mentioned frame and movable therein parallel with the line



of movement of the plungers, means mounted in said second frame for operating the plungers, and a shaft extending through the frames and carrying eccentric mechanism for moving said frames to shift the pump chambers for suction and discharge and operate the pump plungers.

1,455,036. INSERT FOR HANGERS. WILLIAM E. WHITE, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,879. 2 Claims. (Cl. 72—105.)

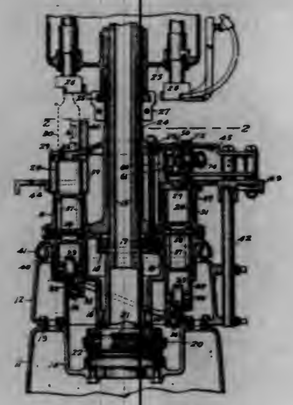


1. In an insert, the combination of a length of wire having sharpened ends and bent to provide loops composed of four parallel sections of wire, including two upper bends and one lower bend, the upper bends serving as anchoring devices, a ring supported on said lower bend, and a housing having an open bottom held between the two middle sections of wire and shaped to receive and permit bodily vertical movement of said ring, said housing being positioned to act as a stop when the pointed ends are driven into a form.

1,455,037. PACKAGING APPARATUS. CLEMENTS G. BELDEN, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed Apr. 5, 1919. Serial No. 287,710. 12 Claims. (Cl. 198—22.)

1. In packaging apparatus, the combination with rotary mechanism having associated therewith a plurality of spaced bottle-receiving pockets for positioning the bottles during the packaging operation, of means for advancing bottles, indiscriminately spaced, toward packag-

ing position, a stop device for stopping bottles successively before they reach a position to be taken by the



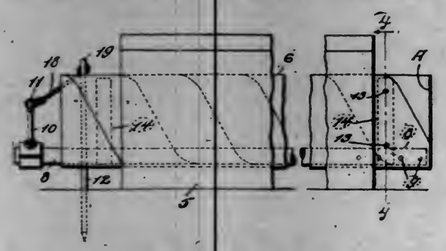
pockets, and means moving with and in synchronism with said pockets for rolling the stopped bottles past said stop device.

1,455,038. INNER TUBE. HOWARD F. BLEDSOE, Ellensburg, Wash. Filed Jan. 10, 1922. Serial No. 529,755. 1 Claim. (Cl. 152—13.)



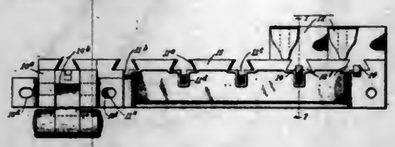
An inner tube of the character described comprising an inner wall of rubber, a cord wound spirally around same, a rigid strip between the cord winding and the inner wall to fix the inner diameter of the tube and determine the outer periphery and an outer covering of fabric.

1,455,039. METHOD OF MOLDING PLASTIC STRUCTURES AND APPARATUS FOR USE IN SAME. GEORGE A. BONELLI, Kingman, Ariz. Filed Sept. 12, 1921. Serial No. 500,091. 3 Claims. (Cl. 25—128.)



3. In an apparatus for molding plastic structures, in combination with an outer form and spaced therefrom by a coiled annular spacing member, a spirally wound inner core whose normal diameter is smaller or larger than that of the cavity to be molded; means for expanding or contracting said core for use as a mold; means for holding said core in that expanded or contracted position; and means for relaxing said core for purposes of withdrawal from the set plastic structure.

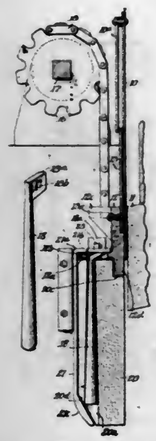
1,455,040. CHAIN GRATE. EUGENE L. BROWN, Jr., Chicago, Ill., assignor to R. E. Spencer Geare, Chicago, Ill. Filed Jan. 10, 1920. Serial No. 350,583. 9 Claims. (Cl. 110—40.)



1. In a chain grate, a supporting member, said supporting member having a tapered seat, a grate bar having a tapered portion engageable with said tapered seat, and spring means to lock said bar in seated position.

8. In a chain grate, a chain link having spaced apart lugs, the adjacent surfaces of said lugs converging downwardly to provide a tapered space therebetween, a supporting member having a tapered extremity fitting in the space between said lugs, transverse apertures extending through said member and lugs, and fastening means extending through the latter.

1,455,041. FEED GATE FOR AUTOMATIC STOKERS. EUGENE L. BROWN, Jr., Chicago, Ill., assignor to R. E. Spencer Geare, Chicago, Ill. Filed June 21, 1920. Serial No. 390,437. 16 Claims. (Cl. 110—173.)

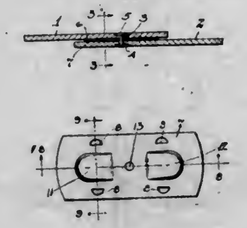


1. A feed gate for furnaces comprising a carrier, a plurality of refractory members, and an individual hanger for each of said members detachably suspended from said carrier.

1,455,042. JOINT FOR FOLDING RULES. FRED BUCK, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich., a Corporation of Michigan. Filed Nov. 15, 1919. Serial No. 338,257. 1 Claim. (Cl. 33—120.)

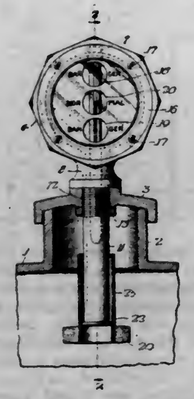
In a device of the character described, the combination of two overlapping rule sections, plates of lesser width than said sections mounted between the adjacent faces thereof at the respective ends of said sections, a pair of

lugs pressed outwardly at right angles to the plane of each plate at points spaced from the side edges centrally of each half thereof, a stud holding each of said plates in engagement with its respective rule section, and serving as a pivot for said rule sections, one of said plates being provided on each side of said pivot with an upwardly pressed resilient projection lying at an acute



angle to the plane of said plate and having a beveled outer edge of semi-circular shape formed integrally with said plate, and the other of said plates having a pair of openings of a shape corresponding with said projections, and similarly spaced, to receive said projections when said rule sections are in open or closed position.

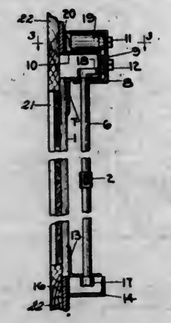
1,455,043. AUTOMOBILE RADIATOR THERMOMETER. ARTHUR CAMERON, Chicago, Ill. Filed Sept. 30, 1918. Serial No. 256,333. 5 Claims. (Cl. 73—52.)



1. In a thermometer construction for the radiators of automobiles, the combination of a tube depending therein above the water, means to support the tube, a float member forming an extension of the lower end of said tube, said member and the tube being telescoped together, so that the lower end of the float member will always rest on the surface of the water, and a thermometer disposed in operative relation to the upper end of said tube, so that heat rising in the tube from the water will operate said thermometer.

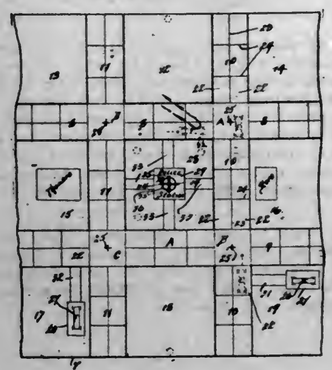
1,455,044. CAR-DOOR HANGER. THEODORE R. CHANDLER, Davenport, Iowa. Filed Dec. 1, 1922. Serial No. 604,134. 11 Claims. (Cl. 20—23.)

10. The combination with a wall, of a door set into the side thereof, a track, a hanger rigidly fastened to said door and adapted to move laterally and longitudinally on said track, means manually operable to move the door and hanger laterally into closed position



and resilient means adapted to yieldingly hold said door laterally out of closed position and permit longitudinal movement thereof along said track.

1,455,045. GAME APPARATUS. HARRY L. CONDÉ, Syracuse, N. Y. Filed Mar. 25, 1922. Serial No. 546,583. 4 Claims. (Cl. 46—63.)

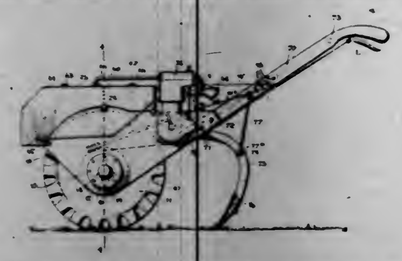


1. In a game, a chart containing representations of the streets of a town or city, the streets being divided into spaces, game pieces movable over the face of the chart arranged to follow the street indications, a post carried by the chart, a rotatable member carried by the post having marked thereupon the traffic signals Stop and Go, whereby the game pieces may be signaled to advance from square to square.

1,455,046. TRACTOR CULTIVATOR. CHARLES EDWIN DOWNIE and GEORGE D. GRAVELY, Pomeroy, Ohio. Filed July 17, 1922. Serial No. 575,437. 7 Claims. (Cl. 180—19.)

1. In a tractor cultivator of the character described, a traction wheel, a rotatable axle keyed to said traction wheel, a frame comprising metallic side plates and spacing means therefor, bearings secured to said side plates and receiving one end of said axle, a power plant supported upon said side plates and including a pair of cylinders, the cylinders being symmetrically arranged with respect to the longitudinal axis of the cultivator and one such cylinder being secured to each of said side plates, said cylinders having a common crank shaft including a portion extending between the side plates, worm gearing for driving the axle from said crank shaft

including a worm fixed to a portion of the power plant between the side plates, a transmission shaft actuated from said worm, a worm wheel loosely mounted on the



axle and driven from said transmission shaft, and clutch mechanism for connecting the loose worm wheel to the axle.

1,455,047. HYPODERMIC SYRINGE. LUELLA L. GOOLD, Arlington, Mass. Filed Oct. 29, 1919. Serial No. 334,182. 3 Claims. (Cl. 128—216.)



1. A hypodermic syringe comprising a container having a compressible body portion and a rigid end portion provided with a rigid annular seat, and with a compressible annular clamping flange forming, with the seat, an annular groove, a flexible and rupturable diaphragm, the margin of which is inserted in said groove and clamped therein by the compression of said flange to form a liquid-tight joint, and a hypodermic needle having a liquid-tight connection with the rigid end portion.

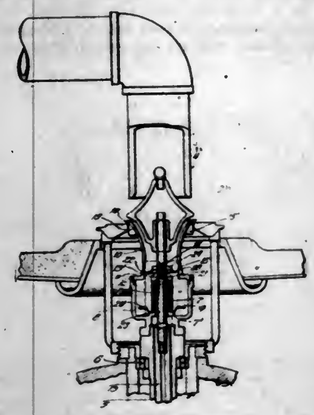
1,455,048. LOOM. FREDERICK C. HALL and JAMES TOWNSON, Pawtucket, R. I., assignors to Jenckes Spinning Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Dec. 21, 1920. Serial No. 432,255. 11 Claims. (Cl. 139—59.)



9. In a loom for weaving cord tire fabric consisting of comparatively heavy warp threads or cords bound together by fine and widely spaced filling threads, the combination with the harness and lay of feeding in mechanism to which all the warp threads lead from the warp thread supply and from which they lead to the harness, mechanism for actuating the feeding in mechanism to feed in an unvarying length of each warp thread during each cycle of the loom, and means for maintaining a substantially uniform tension on each warp thread delivered to the feeding in mechanism.

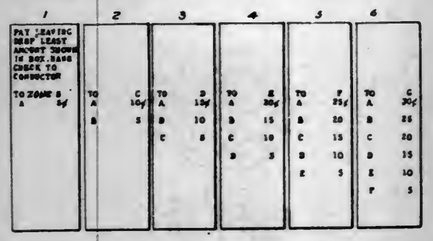
1,455,049. OIL BURNER. FRANKLIN HARDINGE, Chicago, Ill., assignor to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 16, 1921. Serial No. 470,211. 15 Claims. (Cl. 158—77.)

5. An oil burner comprising a rotary hollow shaft, a cup mounted on the upper end of said shaft, said cup having inner and outer cylindrical walls spaced apart to provide an oil receptacle, an outwardly flaring atomizing nozzle mounted on the upper end of said cup, a stand-pipe projecting through said hollow shaft and the



inner cylindrical wall of said cup, and the upper end of said stand-pipe being provided with a plurality of longitudinally elongated slots.

1,455,050. RAILWAY FARE TICKET. CLARENCE W. HEATH, Sand Springs, Okla. Filed June 15, 1922. Serial No. 568,641. 4 Claims. (Cl. 283—30.)

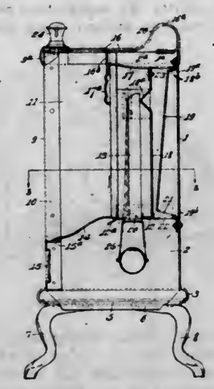


1. A fare-ticket system for railways comprised of a set of tickets for each destination locality having the proper destination locality printed on the upper portion thereof, and below said destination the names of the departure localities preceding the particular destination in the direction of travel, the indicia of said departure localities being arranged in a vertical column in the order of their occurrence in the direction of travel and the proper amount of fare between each of said departure localities and the said destination being printed horizontally opposite each departure locality whereby, when the ticket is issued the proper destination appears at the top, and by tearing off the lower part of the ticket immediately below the indicia of the departure locality where the passenger embarked, the last line on the ticket will show the departure locality and the fare to be paid.

1,455,051. RADIANT GAS HEATER. WILLIAM W. HOLLOWAY, Wheeling, W. Va., and HENRY KIELBERG, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 26, 1922. Serial No. 577,722. 9 Claims. (Cl. 126—92.)

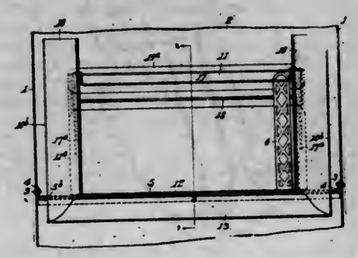
1. In a radiant gas heater, a sheet metal casing consisting of a rear wall and side walls, said side walls having their front edge portions turned inwardly, a horizontal radiant support located within said casing, said support having burner apertures adapted to be em-

braced by radiants seated thereon, a fender extending forward from said support, a back wall seated upon said support rearward of said apertures, and upright shield



plates overlying said support and said fender, said plates being interposed between the inturned edge portions of the side walls and said back wall.

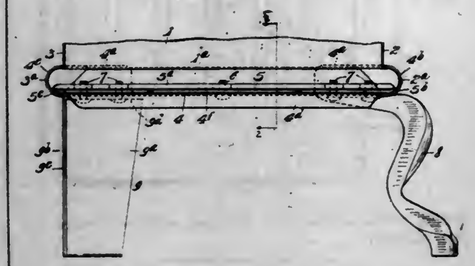
1,455,052. RADIANT SUPPORT AND HOLDER FOR GAS HEATERS. WILLIAM W. HOLLOWAY, Wheeling, W. Va., and HENRY KIELBERG, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 26, 1922. Serial No. 577,725. 5 Claims. (Cl. 126—92.)



1. In a radiant heater, the combination with a heater casing, of a horizontal member mounted within said casing and forming a seat for a plurality of alined tubular radiants, said member having apertures therein adapted to be embraced by such radiants, a metal back-wall located rearward of said apertures and having a part in engagement with the backs of such radiants, laterally disposed shields, and a retaining member carried by said shields, said retaining member being shiftable into and out of operative relation to the upper ends of such radiants.

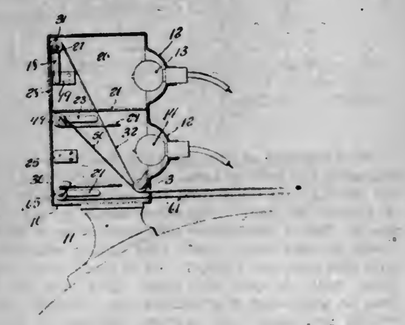
1,455,053. SUBSTRUCTURE FOR STOVES. WILLIAM W. HOLLOWAY, Wheeling, W. Va., and HENRY KIELBERG, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 26, 1922. Serial No. 577,726. 5 Claims. (Cl. 126—305.)

1. The combination with a sheet-metal stove casing having outwardly pressed terminal rolls of approximately semi-cylindrical shape formed on the lower ends of its front, side and rear walls, of upper and lower panel-members adapted to be disposed in clamping relation to the terminal edges of said rolls, the lower of said members being shaped to embrace a side-wall roll and the



adjacent ends of the rolls of the front and rear walls, and the upper member being adapted for having its outer lateral edge seat interiorly of said side-wall roll, and means for attaching said plates together said members being adapted for having stove supporting legs attached thereto.

1,455,054. AUTOMOBILE SIGNAL. MATHEW G. IVANDICK, North Chicago, Ill. Filed Apr. 18, 1922. Serial No. 554,775. 1 Claim. (Cl. 177—327.)

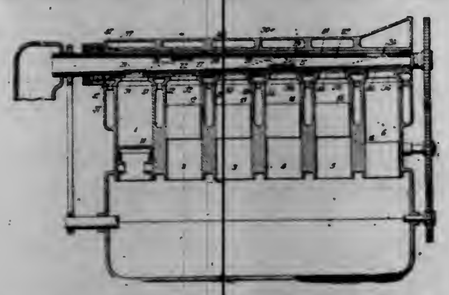


The combination of a housing, a partition dividing said housing into two compartments, a stop plate pivoted in one of said compartments, left and right plates pivoted in the other of said compartments, an electric lamp in each of said compartments, means for moving the stop plate to visible position and illuminating one of said lamps to make said stop plate visible, and means for moving either of the left and right plates to visible position, and simultaneously moving said stop plate to visible position and illuminating both of said electric lamps.

1,455,055. VALVE FOR EXPLOSIVE ENGINES. KENT E. KELLER, Ava, Ill. Filed Oct. 31, 1917. Serial No. 199,481. 8 Claims. (Cl. 123—59.)

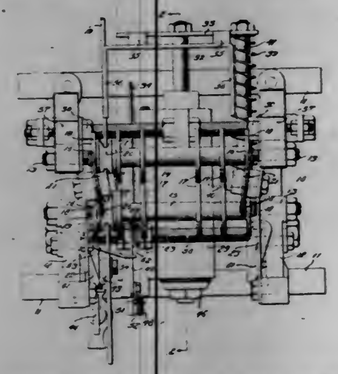
1. In an explosive engine, a series of cylinders, pistons therein, an inlet port for each cylinder, an exhaust port

for each cylinder, and means to control the opening from said exhaust ports comprising a conical exhaust valve



having ports of the same angular width and area for each cylinder.

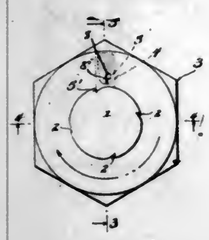
1,455,056. VIAL-BOTTOMING MACHINE. ROBERT KOENIG, Haddon Heights, N. J. Filed Oct. 4, 1921. Serial No. 505,424. 14 Claims. (Cl. 49—7.)



13. Apparatus of the character described including a magazine for holding tubes to be operated upon; means for moving said tubes from the magazine; rolls forming a support for said tubes when moved by said moving means; means for heating said tubes between their ends while on said rolls; other rolls of less diameter than said first rolls and normally out of engagement with said tubes while on said first rolls; other rolls adapted to bear on said tubes at a position approximately over said second mentioned rolls whereby portions of the tubes will be moved into engagement with said second mentioned rolls when the tubes become softened by said heating means, said third mentioned rolls being disposed at an angle to apply tension to said heated tubes in opposite directions whereby the tubes will be separated and moved off of said first and second mentioned rolls and allow said third mentioned rolls to move downward; means for effecting actuation of said tube moving means; and means movable by said third mentioned rolls during their downward movement to render said latter actuating means operative substantially as described.

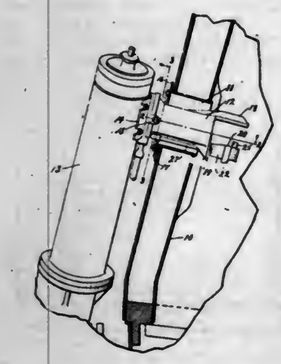
1,455,057. AUTOMATIC LOCK NUT. BERT LINDSAY, Antigo, Wis., assignor of one-fourth to Leon Lindsay, one-fourth to Frank Lindsay, and one-fourth to William Lindsay, all of Antigo, Wis. Filed May 5, 1921. Serial No. 466,931. 1 Claim. (Cl. 151—10.)

In a threaded bolt having a series of longitudinal ratchet tooth grooves interrupting its threads; the combination of a key having a cylindrical portion and a wing portion; a nut having an aperture of key hole shape and a radial cavity extending from its bore and open only at the bore, a spring controlled tooth plunger mounted in the cavity for engagement with the ratchet tooth bolt grooves, the plunger being provided with a



recess for receiving said key having walls radiating from the key aperture of the nut, one of which is adapted to be engaged by the wing of said key, whereby the plunger is lifted in opposition to its spring and held in such lifting position by the mere rotation of the shaft of the key.

1,455,058. LOCOMOTIVE STOKER. NATHAN M. LOWEB, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Aug. 8, 1918. Serial No. 248,949. 9 Claims. (Cl. 110—104.)

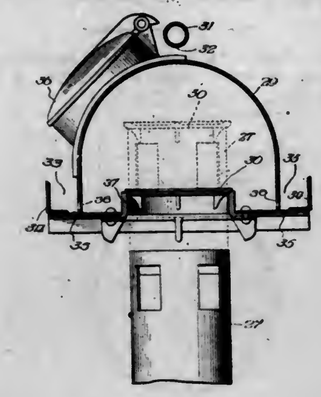


7. In a mechanical stoker, in combination, a plate over which fuel may be impelled and having a laterally opening channel, adjacent its delivery end and an abutment at the forward margin of the channel, such abutment being approximately normal to the path of the impelled fuel and projecting above the level of the plate.

8. A fuel distributor comprising, in combination, a substantially horizontal tube, a blast nozzle discharging through the tube, an abutment crossing the lower portion of the discharge end of the tube and projecting above the inner surface thereof, the tube being provided with laterally opening pockets immediately back of the abutment.

1,455,059. COOLING MEANS FOR EXHAUST MAINS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1919. Serial No. 330,962. 7 Claims. (Cl. 261—10.)

1. In a coking plant, in combination: an exhaust main provided with water inlets along its opposite sides; gutters respectively located on opposite sides of and substantially co-extensive with said exhaust main and discharging water through said inlets into the interior of the main; and a water pipe positioned above and sub-

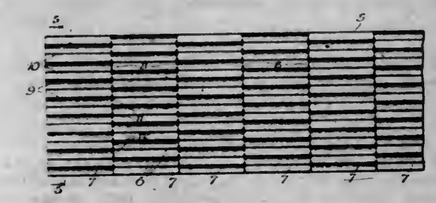


stantially co-extensive with said main, and provided with a series of discharging holes for permitting cooling water to flow over the opposite sides of the aforesaid main into said gutters; substantially as specified.

1,455,060. PROCESS OF RECOVERING IRON OXIDE AND OTHER PRODUCTS FROM SPENT IRON SLUDGE. CHARLES V. BACON, Mahwah, N. J. Filed Oct. 5, 1922. Serial No. 592,608. 3 Claims. (Cl. 134—59.)

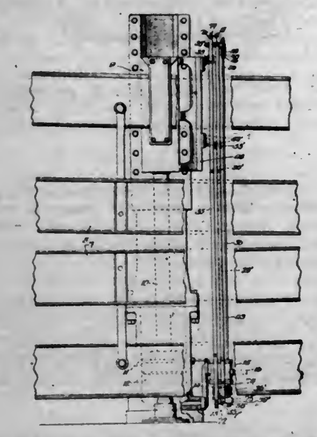
1. The process which consists in subjecting iron sludge comprising essentially highly impure iron oxide and while in a pasty condition to the action of a quantity of sulphuric acid sufficient to at least correspond to a substantially combining weight as compared with the amount of iron oxids treated, heating the mass to a sufficient temperature and for a sufficient time to concentrate the acid and convert the mass into a porous spongy condition then elevating the temperature and roasting the resultant mass to effect the decomposition thereof into oxy-sulphur acid gases and iron oxide and separately recovering such iron oxide.

1,455,061. METHOD OF FORMING FOLDED STRIPS OF MATERIAL. ARTHUR M. BARRETT, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,923. 2 Claims. (Cl. 154—33.)



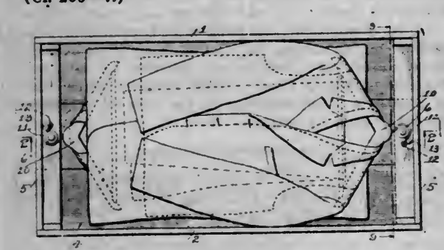
1. The method of forming folded strips of material which consists in perforating in one direction a sheet of the material to be used, and simultaneously folding said sheet in a direction transverse to the perforation line, and subsequently tearing off folded strips on the perforation lines.

1,455,062. AUTOMATIC HYDRAULIC CONTROL VALVE FOR EXPANDING MACHINES. ALBERT J. BATES, Chicago, Ill., assignor to Bates Expanded Steel Truss Co., Wilmington, Del., a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,259. 21 Claims. (Cl. 188—10.)



1. In an apparatus of the class described, the combination of the movable member of a metal expanding machine, fluid pressure actuated means for moving said movable member, valve-mechanism for the control of fluid pressure, and valve-mechanism actuating-means controlled by the movements of the movable member to cut off the supply of fluid pressure at a predetermined position of the movable member, said valve mechanism including a quick acting valve for immediately cutting off the supply of pressure.

1,455,063. PACKING AND SHIPPING CASE FOR GARMENTS. JOHN THOMAS BATTS, Grand Rapids, Mich. Filed Mar. 13, 1922. Serial No. 543,260. 5 Claims. (Cl. 206—7.)



1. In a garment packing and shipping case; a plurality of garment hangers, having sustaining hooks adapted to be hooked around the supporting post hereinafter named and provided with end portions extending outwardly from said supporting post; a supporting post inside the case for the hangers; a hook-retaining member parallelly disposed relatively to the supporting post and fixed in such position as to engage said portions of the hooks to hold the hooks against unhooking movement from the supporting post.

1,455,064. VEHICLE SIGNALING DEVICE. WILLIAM JOHN BROLEY, Arverne, N. Y. Filed Apr. 1, 1921. Serial No. 457,590. 4 Claims. (Cl. 116—43.)

1. In a traffic signaling device, a rectilinear casing, means for interiorly lighting the same, and a removable

plate having an opaque ground, a transparent window and transparent identification media, and a translucent ribbon-film back of said window, said ribbon-film having stenciled signaling indica, and a spring-actuated



roller upon which said ribbon-film is normally wound and means for unwinding said ribbon-film whereby selective parts thereof may be displayed through said window.

1,455,065. TUBE-PAINTING MACHINE. PHILIP BELLOWS, Boston, Mass., assignor to Dampney Company of America, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1921. Serial No. 442,098. 33 Claims. (Cl. 91—39.



4. In a tube coating machine, apparatus adapted to be passed through a tube and comprising, in combination, a container, depositing mechanism, means for delivering coating material from the said container to the depositing mechanism, and means for actuating said depositing mechanism.

7. In a tube coating machine, apparatus adapted to be passed through a tube and comprising, in combination, a container, a rotary depositing element, means for delivering coating material from the container to the depositing element, and mechanism for rotating said element.

22. In a tube coating machine, the combination with apparatus adapted to be passed through a tube for distributing a coating material over the inner surface thereof, of mechanism for drawing said apparatus through the tube, and means associated with said mechanism for directing a draft of air through the said coated tubes.

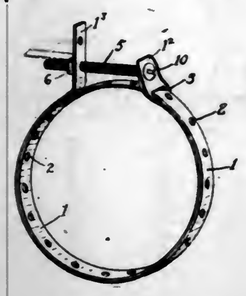
33. In combination, applying means, spreading means, mechanism for moving both said means over a surface to be coated, and feed means actuated by said movement for producing a flow of said applying means, whereby said flow is proportional to the rate of progress of the device over the surface.

1,455,066. FOLDING TABLE. JOHN WORLING BEREMAN, Wichita, Kans. Filed Jan. 11, 1921. Serial No. 436,495. 4 Claims. (Cl. 45—116.)



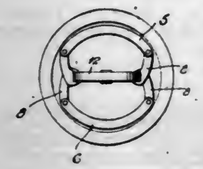
1. In a folding table: a recessed top section, a leg pivoted thereon to fold into the recess, an inclined brace having a break-joint, a main link pivoted to the butt of said leg near the leg-pivot, means to restrain said link from swinging away from the table top, a truss-rod having one end engaging said brace by contact, means on said link to guide the engaging end of the truss-rod, and a strut pivoted on the inner end of the top section in line with the truss-rod; said truss-rod being pivotally connected to the free end of said strut, and said inclined brace connecting said leg with the top section of the table; substantially as described.

1,455,067. CLAMP. MORRIS BERMAN, Mattapan, Mass. Filed Dec. 18, 1919. Serial No. 345,729. 2 Claims. (Cl. 24—19.)



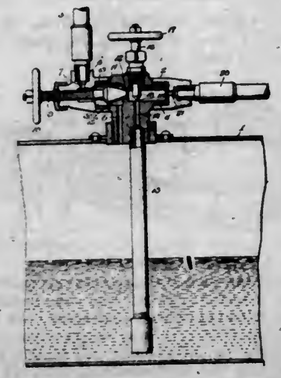
2. A tube clamp comprising a flexible strip having a series of spaced fastener holes therein extending substantially from end to end thereof, and having an upwardly bent head provided with a transverse slot at the point of bend and through which the opposite end of the strip is adapted to be passed, whereby to provide a tube encircling band, said strip beyond said head extending as a superposed layer partially encircling said band, the free end of said strip adapted to be bent upwardly at selected points to position one of the fastener holes opposite said upwardly bent head, a fastener carried by said head and engaging the opposing fastener hole of the strip, and means for detachably locking said fastener to said strip comprising a locking element on said fastener adapted to be set against the free end of the strip, that portion of the strip beyond said locking element adapted to be bent over upon said locking element whereby to frictionally clamp said locking element against movement on said fastener.

1,455,068. BOTTLE CAP. SIGURD BJORKQUIST, Blaney, Mich. Filed July 15, 1922. Serial No. 575,270. 2 Claims. (Cl. 215—51.)



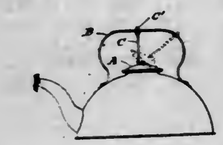
1. A bottle cap comprising a closure disk provided with an annular band having an interior annular groove, curved pressure links adapted to be moved into and out of the groove, transversely extending toggle links, means to connect the toggle links with the terminals of the said pressure link, a handle connected to the central meeting ends of the said toggle links whereby the latter may be raised and lowered to move the said pressure links for releasing or applying the pressure of the pressure links against the said band and the closure disk for loosening or tightening the closure disk in the bottle neck.

1,455,069. HEATER AND KINDLER. GUSTAVE BLUMMEL, Toledo, Ohio, assignor to Ferguson Furnace Company, Toledo, Ohio, a Corporation of Delaware. Filed June 27, 1921. Serial No. 480,660. 4 Claims. (Cl. 158—50.1.)



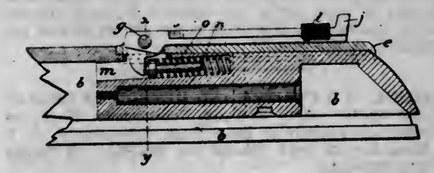
1. The combination with a fluid supply tank, of a valve connected with the tank and with a source of compressed air supply, said valve comprising a body having an air chamber having independent communications with the air supply and with the tank, a mixing chamber having a communication with the bottom of the tank and also having a delivery outlet independent of said communication, a direct communication between the air chamber and the mixing chamber, and a double acting valve operating in the air chamber for closing said air supply communication or said direct communication.

1,455,070. KETTLE-LID-RAISING MEANS. WILLIAM HERBERT SIMPSON BREWER, Epsom, New Zealand. Filed July 24, 1920. Serial No. 398,806. 1 Claim. (Cl. 53—9.)



The combination of a kettle having an opening in the top, a substantially inverted U-shaped handle rigidly secured to the kettle, a lid loosely mounted in the opening, a rod rigidly attached at one end to the lid and provided at its opposite end with an eye loosely encircling the handle.

1,455,071. REAR SIGHT FOR FIREARMS. JOHN M. BROWNING, Ogden, Utah. Filed May 13, 1922. Serial No. 560,757. 8 Claims. (Cl. 42—1.)



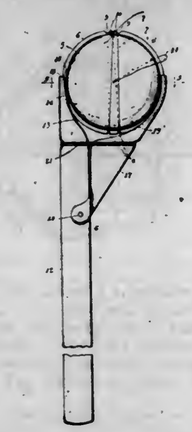
1. In a rear sight for automatic pistols having a recoiling breech-slide, the combination of a recoil-actuated breech-slide, a base-plate lengthwise movably attached on said breech-slide, and a spring mounted in said breech slide and holding said base-plate yieldingly in its attachment on said breech-slide.

8. A rear sight for automatic pistols having a recoiling breech-slide, comprising a breech-slide, a base-plate movably attached to said breech-slide, an adjustable sight-leaf pivoted to said base-plate, and a member yieldingly slidable within said breech-slide, said sight-leaf and said member co-operating to yieldingly secure said base-plate on said breech-slide and to yieldingly hold said sight-leaf adjusted on said base-plate.

1,455,072. DEHYDRATION OF ALCOHOL. HYYM E. BUC, Roselle, N. J., assignor, by mesne assignments, to Standard Development Company, a Corporation of Delaware. Filed Oct. 21, 1921. Serial No. 509,408. 5 Claims. (Cl. 195—15.)

4. The process of dehydrating alcohol which comprises mixing 20% to 50% of kerosene with the alcohol to be dehydrated, heating the mixture with lime distilling the mixture and separately condensing the dehydrated alcohol.

1,455,073. PARACHUTE TOY. CLAUDE L. BUNTEN, Rawlins, Wyo. Filed Apr. 8, 1921. Serial No. 459,632. 4 Claims. (Cl. 244—21.)

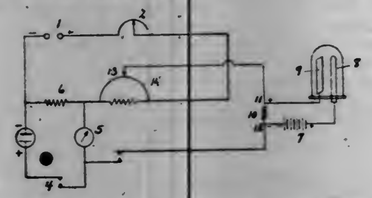


2. A toy comprising a projectile consisting of a pair of oblate semi-spheroidal shell sections, flanges on the edges of said shell sections that provide a rib on the assembled projectile; said rib provided with registering recesses, a retaining element wound about said projectile and engaging said recesses, a parachute connected to said shell sections and enclosed within said shell sections, and a holder and thrower for said projectile consisting of a pair of yielding jaws having their opposing faces grooved to receive and seat the rib of said projectile, and a projection on one of said jaws adapted to enter one of said recesses on the projectile whereby when said projectile is thrown from said holder the projection will cause the rotation thereof.

1,455,074. APPARATUS FOR RECORDING LIGHT. THEODORE WILLARD CASE, Scipio, N. Y. Filed Dec. 11, 1920. Serial No. 430,095. 10 Claims. (Cl. 234—1.5.)

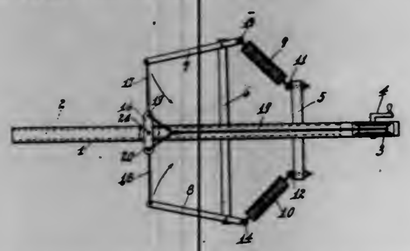
1. In an apparatus of the class described, an electrical circuit containing a known but variable electromotive force, a second circuit coupled with the first circuit so that the electromotive forces of the two circuits oppose each other, a light reactive resistance and a potential in

said second circuit and means for varying the electromotive force of the first circuit so as to equal the electromotive force of the second circuit as the latter is varied in accordance with variations in the resistance of said light reactive resistance.



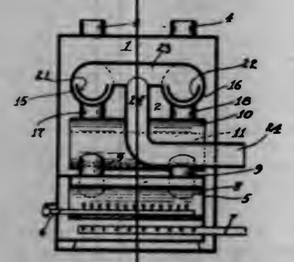
8. A light recording apparatus comprising the combination with a record sheet calibrated in units of light intensity and time periods, of a galvanometer, a circuit including the galvanometer and a light sensitive cell, means rotated a distance and in a direction dependent upon the extent and direction of the deflection of the galvanometer and means actuated by said rotated means for making a record upon said sheet of the intensity of the light to which said light cell is exposed.

1,455,075. CATAPULT. SAMUEL E. CHAPMAN, San Mateo, Calif. Filed Nov. 9, 1922. Serial No. 599,813. 3 Claims. (Cl. 124—1.)



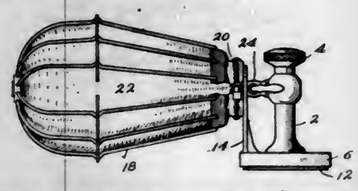
1. A catapult comprising a barrel, said barrel having a bore therein, a rider in said bore, levers pivoted adjacent said barrel, springs connected at one end to the levers and at the other ends to the barrel, cables secured to said levers and extending through said rider whereby said rider is retracted, and means for holding said rider in the retracted position.

1,455,076. HEATER. JAMES A. CLYMER, Oakland, Calif. Filed June 10, 1922. Serial No. 567,310. 4 Claims. (Cl. 126—116.)



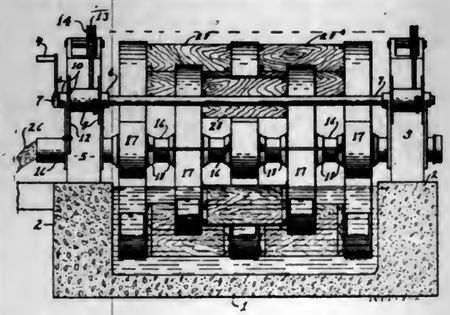
1. A heater comprising an outer fresh air chamber and a heating chamber within said fresh air chamber, said heating chamber including a combustion drum, a plurality of circulating drums above the combustion drum, pipes connecting the combustion drum with each of the circulating drums, upper drums above the circulating drums and pipes connecting the upper drums and the circulating drums, a pipe connecting the upper drums and a pipe leading from the last mentioned pipe to an outlet.

1,455,077. VALVE TESTER. SAMUEL M. COFFMAN, Kansas City, Mo. Filed Dec. 31, 1921. Serial No. 526,314. 1 Claim. (Cl. 73—51.)



A device of the character described, comprising a chambered head, a gasket recessed into said chambered head, a standard surmounting said chambered head and having a duct leading thereto, a knob surmounting said duct, a valve connected to the standard and having a duct communicating with the first-mentioned duct, an elastic air container secured to said valve, a bracket extending upwardly from the chambered head and provided with an annular shoulder, and a guard clamped to said shoulder to protect the air container.

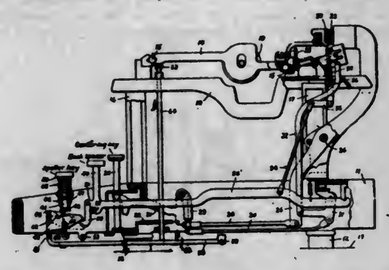
1,455,078. WATER-DRIVEN PUMP. JOHN M. COLLINGWOOD, Wichita, Kans. Filed June 11, 1921. Serial No. 476,828. 2 Claims. (Cl. 103—85.)



1. In a water driven pump, a horizontal tubular shaft, bearings and bearing supports therefor; a plurality of bucket sections, spaced apart in parallel planes, each bucket section comprising a hub element rigid to the tubular shaft with four individual bucket elements radiating from said hub element; the bucket sections being alternately arranged in their parallel plane positions from the horizontal shaft or so as to present a passage for paddles between adjacent bucket elements of the central bucket section of any series of three bucket sections; and paddle elements horizontally connecting between correspondingly positioned bucket elements of the outer bucket sections of such series and passing between adjacent bucket elements of the central bucket section thereof substantially as specified.

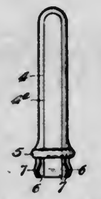
1,455,079. TYPEWRITER AND METHOD OF OPERATING SAME. CARL F. COOK, Schenectady, N. Y., assignor of one-half to John Flam, Schenectady, N. Y. Filed Jan. 3, 1921. Serial No. 434,852. 18 Claims. (Cl. 197—91.)

1. The method of setting the carriage of a typewriter so that a line of type, when typed from the setting, will be centered, which consists in bringing the carriage to a position corresponding to the center of the space within which the line is to be typed, and back spacing the carriage



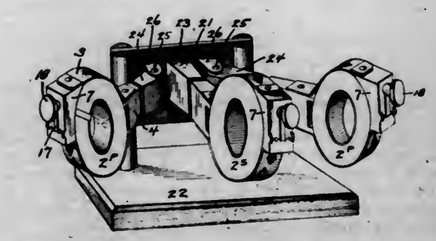
at the rate of one space per pair of spaces in the line of type, each of the back spacing steps being performed substantially simultaneously with the observation of each pair of spaces by the operator.

1,455,080. DUST CAP FOR TIRE VALVES. CLYDE R. CROSON and JACOB W. KINDELBERGER, Wheeling, W. Va. Filed Aug. 11, 1922. Serial No. 581,230. 6 Claims. (Cl. 152—12.)



1. The combination with a tire-valve stem, of a rim nut screwed upon said stem, said nut being hollow and having a reduced neck, a stem-enclosing dust cap movable longitudinally to and from seated relation to said nut, said cap having resilient fingers adapted to enter and yieldingly engage said nut whereby it is retained in place, said cap and said stem being shaped relatively to prevent rotation of the former, and the interengaging parts of said cap and said nut being shaped relatively to prevent rotation of said nut.

1,455,081. INDUCTANCE COIL. ERNEST G. DANIELSON, San Francisco, Calif., assignor to E. T. Cunningham, San Francisco, Calif. Filed May 25, 1921. Serial No. 472,504. 3 Claims. (Cl. 171—242.)



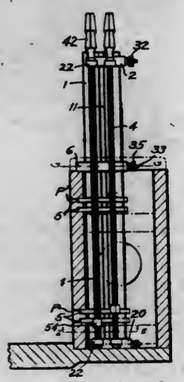
1. In an induction coil mounting, means providing terminals for the coil, means for varying the number of effective turns of the coil, and a common means for tightly holding both of said latter means against the outside periphery of the coil structure.

1,455,082. SPRING BUMPER. ERNEST G. DANN, Chicago, Ill. Filed Dec. 7, 1922. Serial No. 605,494. 14 Claims. (Cl. 293—55.)



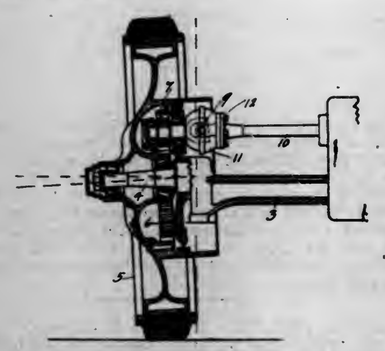
1. In an article of the class described, the combination of two individual bumper sections, each including a resilient outer impact member and a separate unitary inner supporting member and the members of each section being connected together at their adjacent extremities, and means connecting the adjacent extremities of said two sections together.

1,455,083. GAUGE FOR PISTON-VALVE CYLINDERS. CHARLES W. DEUTER, Seattle, Wash. Filed Aug. 2, 1922. Serial No. 579,270. 5 Claims. (Cl. 33—163.)



1. In a gauge for the purpose specified, a gauge stick, a plurality of gauge fingers slidable thereon, and each including a nut, a screw for the nut of each of said gauge fingers extending alongside the gauge stick, means supporting said screws from said gauge stick for rotation, and means whereby said screws may be engaged for rotation adjacent the end of the gauge stick.

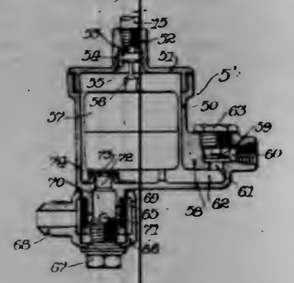
1,455,084. MOTOR AXLE DRIVE. WILLIAM W. DILLER, Indianapolis, Ind. Filed Mar. 20, 1922. Serial No. 545,335. 2 Claims. (Cl. 74—7.)



1. The herein described method of repairing motor trucks having an axle with downwardly bent ends and

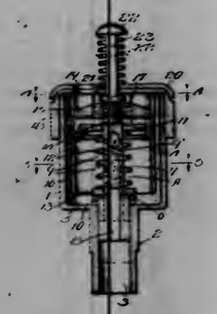
road-wheels thereon correspondingly oblique to a vertical plane and having a driving shaft drivingly connected with the wheels, said shaft having universal joints near each end, which consists, first, in removing the ground wheels from the axle, then substituting rigid joints for the universal joints in the driving shaft, then bending the axle until the driving mechanism connecting the shaft-ends and the wheels will function normally, and then securing the ground wheels on the axle.

1,455,085. FUEL-FEED SYSTEM FOR AUTOMOBILES AND THE LIKE. FRANCIS EDWIN EDWARDS, Crystal Lake, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 30, 1917. Serial No. 204,484. 2 Claims. (Cl. 103—164.)



1. In a fuel feed system, a pumping chamber, a float in said chamber, projections holding said float spaced from the bottom of said chamber, one of said projections forming a housing, and an inlet valve covered by said housing.

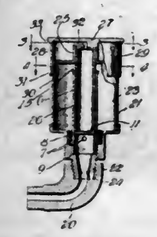
1,455,086. OIL CUP. FRANKLIN H. ELWELL, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,123. 13 Claims. (Cl. 184—28.)



6. In a device of the kind described and in combination, a casing having an oil reservoir therein and having an oil duct leading therefrom, an apertured hollow plunger in said duct and extending into said reservoir, a sleeve between the plunger and casing wall free to move relative to the end wall of said reservoir so as to seat thereagainst, and means for actuating said plunger and sleeve to seat the sleeve and force the oil in said reservoir through said duct, said plunger being slidable relative to said sleeve.

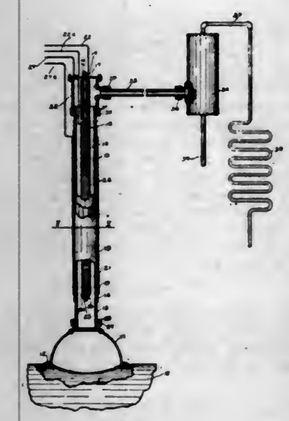
1,455,087. OIL CUP. FRANKLIN H. ELWELL, Chicago, Ill. Filed June 24, 1921. Serial No. 480,038. 10 Claims. (Cl. 184—69.)

7. An oil cup having a lubricant chamber, a sleeve within said chamber and forming a second lubricant chamber, the upper end of said sleeve being spaced from the top of said oil cup, apertures through said sleeve at its lower end and communicating with the outer chamber to permit oil to flow therethrough to the outlet thereof, a cap for closing said inlet to the oil chambers, a plunger carried by said cap and slidable within said inner



chamber, said plunger having a vent therein adjacent its upper end and communicating with the atmosphere and the oil chambers only when said cap has been substantially fully seated, whereby the seating of said cap will cause said vent to be normally inoperative and cause the plunger to exert a pressure on the oil in the inner chamber, forcing it through said outlet.

1,455,088. ELECTRICALLY-OPERATING TREATING CHAMBER FOR HYDROCARBON VAPORS AND GASES. JAMES L. MCCABE, Wichita, Kans. Filed Feb. 3, 1922. Serial No. 533,904. 4 Claims. (Cl. 196—25.)

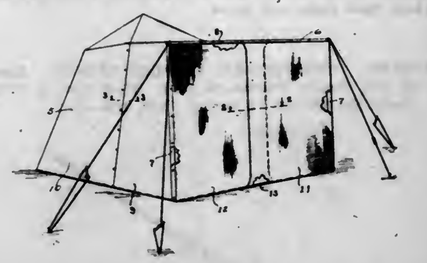


1. In an apparatus for treating hydrocarbon oils, vapors and gaseous mixtures; a tubular treating chamber having walls of a non-electric conducting material, an insulating element axially arranged within the treating chamber and surrounded by a space intermediate the walls thereof; a heating coil arranged on said element and in an electric circuit, said coil also serving as an electrode of another circuit and an insulated electrode of the other circuit enveloping the treating chamber.

1,455,089. TENT. JOKUM J. MUNSON, Milwaukee, Wis. Filed Feb. 20, 1922. Serial No. 538,022. 5 Claims. (Cl. 135—14.)

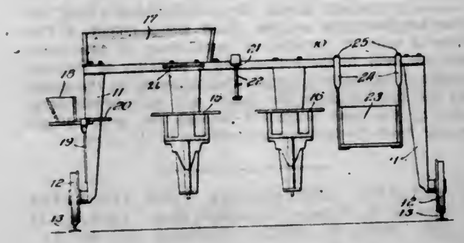
1. In a tent, the combination of two closure curtains

arranged to partially overlap each other, the overlapping edges of said respective curtains being supported by elas-



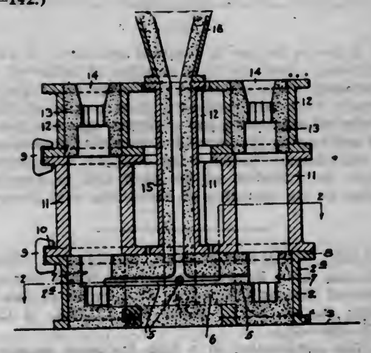
tic members, and means to which the extremities of said members are attached, for the purpose specified.

1,455,090. MOLDER'S TRUCK. ALBERT NELSON, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,290. 2 Claims. (Cl. 22—9.)



1. A molder's truck, comprising a cross-head, wheeled supports for the ends of the cross-head, said cross-head being at an elevation to clear a windrow of molders' sand on the floor of a molding room, a cope molding machine, and a drag molding machine, said machines being carried by the cross-head in spaced relation to lie at opposite sides of a windrow of molders' sand on the floor, and each of said machines being disposed in position for access thereto by a molder standing on the floor at one side of the cross-head.

1,455,091. METHOD AND APPARATUS FOR CASTING ROLLS. WILLIAM H. NICHOLS, Wilkinsburg, Pa. Filed Jan. 10, 1921. Serial No. 436,313. 6 Claims. (Cl. 22—142.)

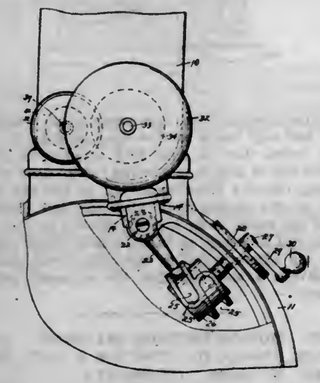


1. The method of casting chill rolls that comprises arranging adjacent to a common pouring gate a plurality of molds each having a separate and independent chill, pouring molten metal into said grate, and directing said metal tangentially into the lower portions of said molds.

1,455,092. DAM. FRED A. NOETZLI, Berkeley, Calif. Filed Oct. 23, 1920. Serial No. 418,897. 6 Claims. (Cl. 61—30.)

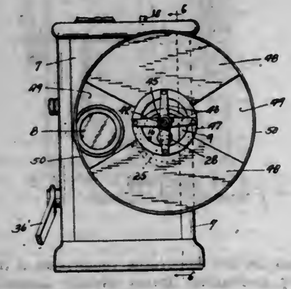
1. In a multiple arch dam the combination of arches and buttresses, said buttresses having two separate walls and braces between said walls.

1,455,093. SPEED CONTROL. ALVAH C. ROEBUCK, Chicago, Ill. Filed June 14, 1920. Serial No. 388,926. 21 Claims. (Cl. 74—26.)



1. A speed control comprising a motor bracket pivotally mounted; an arm extending laterally from and rigidly attached to said motor bracket; a shaft disposed tangentially to the axis of the motor shaft; a cam on said shaft having a spiral cam groove therein engaging the free end of said arm; and manually operable means for rotating said shaft.

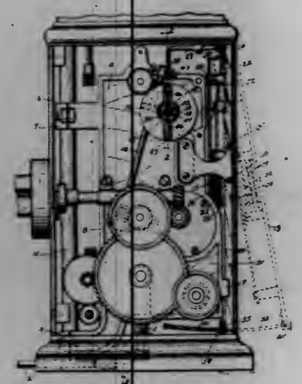
1,455,094. INTERMITTENT-SHUTTER MECHANISM. ALVAH C. ROEBUCK, Chicago, Ill. Filed Nov. 4, 1920. Serial No. 421,783. 16 Claims. (Cl. 88—19.3.)



1. Motion picture apparatus comprising a lens; an intermittent shutter pivoted on an axis parallel to the

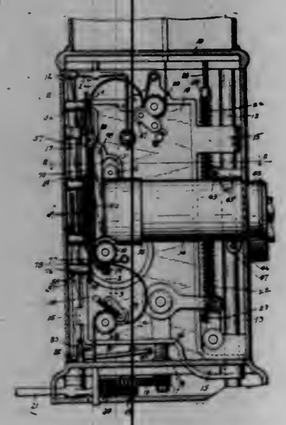
axis of said lens; and means for shifting the axis of said intermittent shutter bodily relatively to said lens, without changing the parallelism of said axes.

1,455,095. FIRE-DOOR-OPERATING MECHANISM. ALVAH C. ROEBUCK, Chicago, Ill. Filed Nov. 4, 1920. Serial No. 421,784. 14 Claims. (Cl. 88—19.4.)



1. Motion picture apparatus comprising a casing having top and side walls with a door opening in one side wall; a casing door in said door opening hinged at its top at the top of said door opening; a fire door pivoted on the casing door; a lever connected to the fire door and pivoted on the casing door with one end close to the hinge of the latter; and a lever pivoted to the top wall with one end disposed at substantially right angles and close to the adjacent end of the other lever, one of said levers having a slot engaging the adjacent end of the other lever.

1,455,096. MOTION-PICTURE MACHINE. ALVAH C. ROEBUCK, Chicago, Ill. Filed Nov. 4, 1920. Serial No. 421,785. 21 Claims. (Cl. 88—17.)



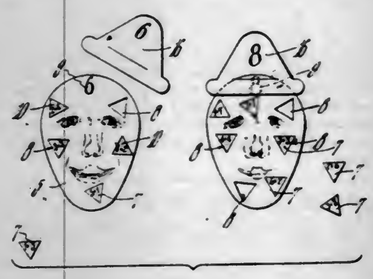
1. Motion picture apparatus comprising a housing; a film-moving mechanism frame slidably mounted in the housing and having a film guide thereon; a door pivoted to the housing on a horizontal axis well above said guide; a plate slidably mounted on said door; film tension shoes yieldably mounted on said plate and adapted to cooperate with said film guide; and an operative connection between said frame and plate.

1,455,097. PYROTECHNIC DISPLAY DEVICE. JOHN B. VAN DOREN, Providence, R. I. Filed Nov. 6, 1922. Serial No. 599,216. 5 Claims. (Cl. 102—20.)



1. A pyrotechnic display device comprising a long narrow longitudinally grooved sheet metal holder, a continuous body of pyrotechnic composition in the groove and adherent to the holder, and a plurality of localized bodies of pyrotechnic composition adherent to the holder on the face opposite the groove and successively ignitable by the heat conducted through the metal of the holder from the burning composition in the groove.

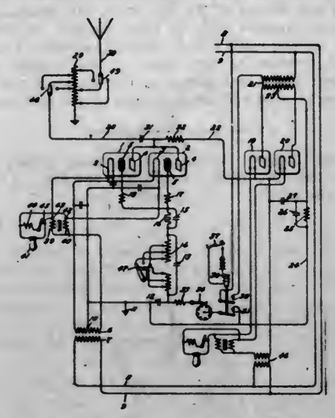
1,455,098. EDUCATIONAL GAME APPARATUS. MILDRED L. WARREN, Springfield, Mass. Filed June 11, 1921. Serial No. 476,731. 9 Claims. (Cl. 35—2.)



1. A device for use in teaching arithmetic to children comprising a card having a notation of numerical value prominently displayed thereon, a plurality of pieces for assembly with said card each piece bearing a different notation of said value, and a picture separate from said card and bearing also graphic display matter said picture and said display matter being designed to cooperate to attract the attention of the child and to develop his interest in the operation of assembling said pieces.

1,455,099. HIGH-FREQUENCY SIGNALING SYSTEM. WALTER R. G. BAKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 5, 1922. Serial No. 527,168. 8 Claims. (Cl. 250—17.)

1. The combination in a high frequency current generating system of a three electrode electron discharge device having plate and grid circuits associated therewith, means for generating oscillations in said grid circuit independently of any coupling between the circuits, and a series condenser in said grid circuit which is shunted by a resistance for maintaining the average potential of the grid negative with respect to the cathode.



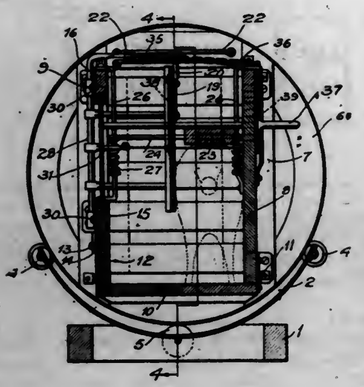
1,455,100. INSECT TRAP. LEWIS L. BELNAP, Oakland, Calif. Filed Apr. 10, 1922. Serial No. 550,961. 1 Claim. (Cl. 43—109.)



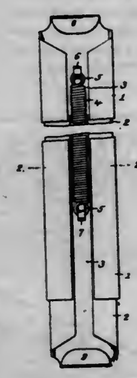
An insect trap including a bracket for supporting a food container, said bracket being formed with a gooseneck, a pair of lugs on said gooseneck, a bowl fitting over said gooseneck, and a pair of spring clips secured to the inside of said bowl for engaging said lugs and detachably holding said bowl upon said gooseneck.

1,455,101. CRATE FOR CATCHING AND HOLDING HOGS. WILLIAM L. BARLOW, Clear Lake, Iowa. Filed June 4, 1921. Serial No. 475,036. 7 Claims. (Cl. 119—103.)

1. An animal crate comprising a housing including a stationary side wall and a bottom releasably held in a closed position and movable to an open position when released, a clamping board movably mounted in the housing and movable toward and away from the stationary wall, an upper clamping element positioned between the clamping board and stationary wall and mounted for vertical movement and yieldably held in a raised position and movable downwardly to engage the back of an animal, means for releasably holding the upper clamping element in a depressed position, means for moving the clamping board toward the stationary wall for clamping engagement with the side of an animal and holding the board in a clamping position, and movable closures for the ends of said housing.

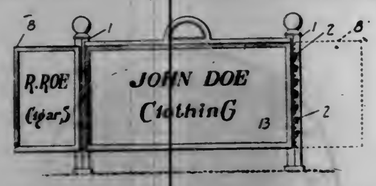


1,455,102. EXTENSION CURTAIN ROD. WILLIAM J. BERGENS, Chicago, Ill., assignor to The Novelty Patents Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 12, 1921. Serial No. 507,297. 4 Claims. (Cl. 156—19.)



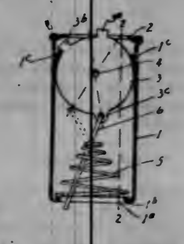
3. In a curtain rod, the combination of a pair of tubular telescoping sections having attaching means at their remote ends, and a coiled spring arranged longitudinally in the interior of said sections and attached at one end to one section and at the other end to the other section, said attaching means comprising integrally formed hooks on the respective sections, the said section having gaps along their entire length, said spring being introduced through said gaps into place in said sections, with the spring attaching means accessible through said gaps.

1,455,103. INTERCHANGEABLE AND ADJUSTABLE SIGN. CULLYE T. BERRY, near Dayton, Ohio. Filed July 21, 1922. Serial No. 576,410. 4 Claims. (Cl. 40—145.)



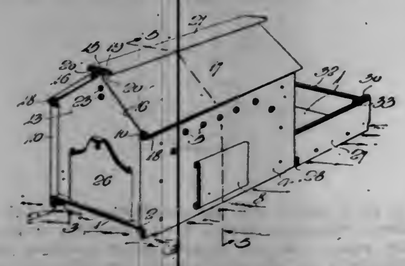
1. In a device of the type described, the combination with a post triangular in cross section, of an inclined bracket device attachable to one face of said post, a bracket device attachable at right angles to an adjacent face of said post, and a sign supported by each bracket device.

1,455,104. CATCH. DANIEL W. BLACKWELL, San Diego, Calif. Filed Mar. 26, 1921. Serial No. 455,729. 3 Claims. (Cl. 292—78.)



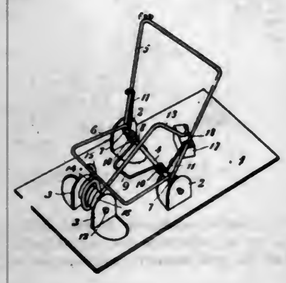
1. A device of the class described, including a plate provided with spaced apart recesses secured to one member, a casing secured to the opposite member, a revoluble member in said casing provided with spaced apart lugs on its edge adapted to extend past the face of said casing and enter said recesses in said plate and a conical spring means for controlling and retarding the movement of said revoluble member.

1,455,105. KNOCKDOWN CHICKEN COOP. WILLIAM L. BUTCHER, Bringhurst, Ind., assignor of one-half to William M. Harmon, Cutler, Ind. Filed May 18, 1922. Serial No. 561,923. 6 Claims. (Cl. 119—19.)



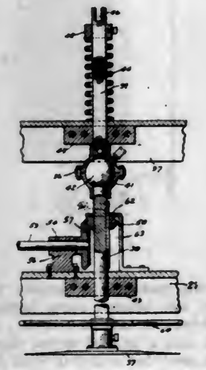
1. A structure of the character described comprising a flooring having depending side flanges, side walls having their lower edges provided with inner flanges for engaging the depending flanges of the flooring when the walls are slid into engagement with the flooring, said walls having upper flanges extending outwardly and having end flanges extending inwardly, abutment strips secured against the inner faces of the side walls adjacent the end flanges, end walls having outstanding side flanges engaging the end flanges of the side walls, said abutment strip having engagement with the inner faces of the end walls to hold the end walls against inward movement and engaging the flooring to hold the flooring against upward movement, and a roof carried by the end walls and having engagement with the upper flanges of the side walls.

1,455,106. TRAP. WILLIAM F. BUTLER, Hillside, N. J. Filed Feb. 27, 1922. Serial No. 539,677. 8 Claims. (Cl. 43—82.)



1. In a setting mechanism for traps, the combination of a movable element adapted to be held by the bait in position to maintain the trap set, an animal-catching element, means whereby the setting of the later moves the said movable element to receive the bait and to be arrested thereby, and means connected with said movable element for holding and releasing said animal-catching element.

1,455,107. BEET HARVESTER. LOUIS VICTOR CIRAC, Fallon, Nev. Filed Apr. 30, 1921. Serial No. 465,878. 2 Claims. (Cl. 55—107.)



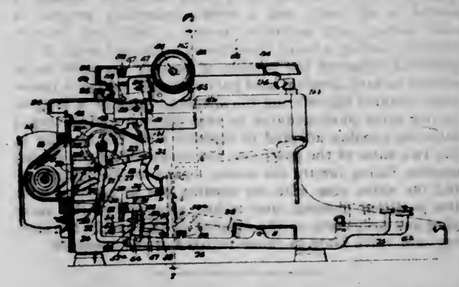
1. In a beet harvester of the character described a topping device comprising a vertical shaft consisting of an upper part and a lower part, a ball and socket joint between said two parts, cutting means at the lower end of the lower part, a bevel gear slidable on said lower part adapted to transmit rotary motion to the same, whereby it is rendered active, a slot in the upper end of the upper part, an eccentric engaging said slot adapted to impart downward motion to said shaft and spring means for opposing said downward motion.

1,455,108. PADDING-COVER CLAMP FOR PRESSING MACHINES. WILLIAM COLCLOUGH, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed May 7, 1919. Serial No. 295,351. 4 Claims. (Cl. 68—9.)



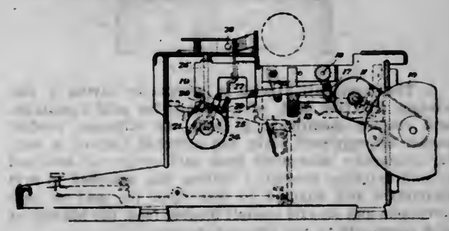
3. In a press, a work holding plate, a pad therefor, a cover cloth on said pad, and clamp means for said cloth comprising yielding backing pad, and a swinging clamping plate supported for movement toward the backing pad and adapted by engagement of its edge therewith to clamp and embed the cover cloth therein.

1,455,109. CASE-SHIFT MECHANISM. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,357. 46 Claims. (Cl. 197—73.)



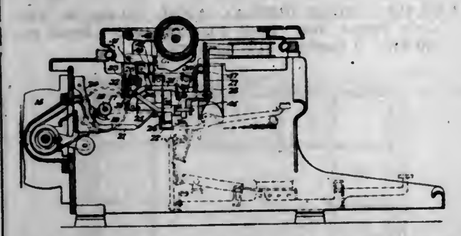
4. A typewriting machine comprising a constantly-rotating drive-shaft, a case-shift-support, means adapted to be operated through said drive-shaft for shifting the case-shift-support to its upper-case position, and key-actuated means for connecting said shifting means to the drive-shaft.

1,455,110. RIBBON MECHANISM. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,360. 8 Claims. (Cl. 197—151.)



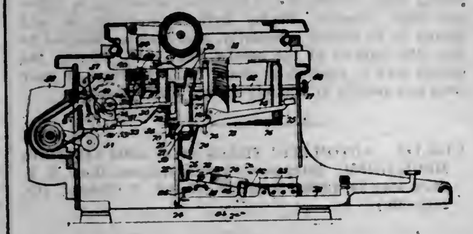
8. In a typewriting machine, a motor-actuated swinging actuator-frame embodying a type-bar actuator-bar, a ribbon-feed mechanism embodying a ratchet device, and a link connecting said ratchet device to one of the swinging parts of said actuator-frame, whereby reciprocation of the actuator-frame by the motor will operate the ratchet ribbon-feed.

1,455,111. RIBBON SHIFT AND VIBRATING MECHANISM. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,361. 12 Claims. (Cl. 197—157.)



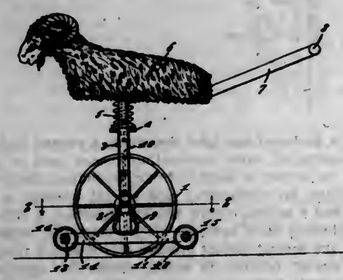
1. In a typewriting machine, a type-carrier-actuator, a ribbon-guide, mechanism for actuating the ribbon-guide through the medium of said type-carrier-actuator embodying color-shift devices, and means on the frame of the machine for adjusting said color-shift devices.

1,455,112. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,362. 44 Claims. (Cl. 197—17.)



1. In a typewriting machine, a series of type-carriers, an actuator common to all the type-carriers, a spring for actuating the actuator in its working stroke, a motor for retracting the actuator and restoring the power of said spring, and key-actuated selecting devices, said spring being strong enough to overcome the resistance offered by one of the type-carriers but not strong enough to overcome the resistance offered by more than one, whereby upon operation of more than one of the selectors the actuator will be prevented from completely operating either type-carrier sufficiently to cause a printing action.

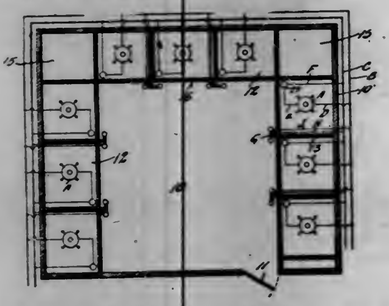
1,455,113. INITIATION DEVICE. ULYSSES S. DE MOULIN, Greenville, Ill. Filed Oct. 30, 1922. Serial No 597,889. 4 Claims. (Cl. 46—70.)



1. An initiation device including a supporting wheel, a structure carried thereby, a body or saddle portion

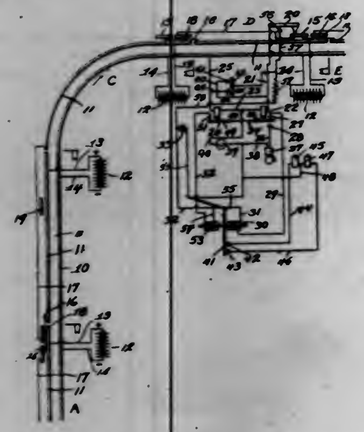
mounted on the structure, a handle bar connected to said body, and means carried by the structure for limiting the tilting movement of the structure in any direction.

1,455,114. STORE-DISPLAY ROOM. JAMES M. ENGLAND, Dallas, Tex. Filed June 26, 1922. Serial No. 570,837. 2 Claims. (Cl. 35—12.)



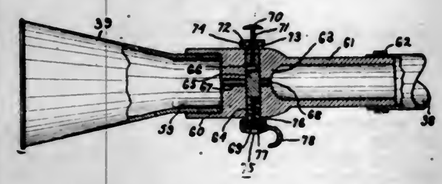
1. In an electric light fixture display room, a room from which the daylight is excluded when closed, a plurality of display booths built against the walls of the room and facing inwardly of the room, each of said booths being decorated and furnished according to different color schemes, display fixtures arranged in said booths to be lighted selectively, and curtains adapted to shut the interior of the booths from view, whereby the booths may be separately viewed from the room, or more than one quickly alternately viewed for comparison.

1,455,115. AUTOMATIC TRAIN STOP AND CONTROL MECHANISM. HARRISON FRANCIS HALLER, Ilion, N. Y. Filed May 23, 1916. Serial No. 99,405. 7 Claims. (Cl. 246—59.)



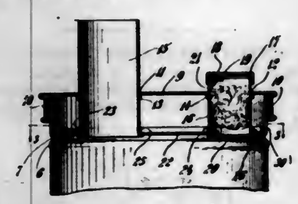
4. In a device of the kind described, a circuit including electro-magnetic valve controlling means and a circuit breaker in series, a second circuit including electro-magnetic means for controlling said circuit breaker, a train battery and a second circuit breaker in series, a third circuit including said battery, electro-magnetic means for holding the second circuit breaker closed and a ramp controlled circuit breaker in series, ramps for opening the ramp controlled circuit breaker, a track battery, an electrical connection between said battery and ramps, and train supported conductor means for maintaining a circuit from a ramp through the electro-magnetic means for holding the second circuit breaker closed and including contact means on the ramp controlled circuit breaker.

1,455,116. VACUUM CLEANING APPARATUS. FRANK E. LUMLEY, Omaha, Nebr. Filed Aug. 18, 1921. Serial No. 493,323. 1 Claim. (Cl. 15—155.)



A suction device comprising a tubular handle being of differential diameter, the portion being of the smaller diameter being hollow and adapted to be connected to a hose, the portion of larger diameter having a thick partition wall therein extending substantially from the adjacent end of the portion of smaller diameter and extending a major portion of the length of the portion of greater diameter, said portion of greater diameter having a socket in its outer end, a nozzle removably secured in said socket, said partition having a relatively narrow opening passing axially therethrough, the end wall of the partition adjacent the portion of smaller diameter being curved to said opening, said partition also having a transverse channel intersecting the opening centrally, a reciprocating valve plug mounted in said channel and having a tapering opening adapted to register with the opening in the two sides of the partition, the outer end of the flaring opening facing toward the nozzle, means for yieldably holding the valve plug with its opening out of registry with the partition opening, and means attached to the valve plug and projecting on the exterior of the handle for moving said valve plate to cause registry of the openings.

1,455,117. COLLECTOR RECEPTACLE. WILLIAM A. MCCLELLAND, Ridgewood, N. J., assignor to The Fuchs & Lang Manufacturing Company, a Corporation of New York. Filed Feb. 3, 1922. Serial No. 533,858. 11 Claims. (Cl. 183—48.)

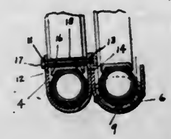


1. The combination with a receptacle having a diaphragm receiving seat, of a closure for said receptacle, said closure comprising a cover, an entrance conduit passed through said cover and attached thereto, a sealing diaphragm suspended from said cover and attached to said entrance conduit, a sealing ring attached to said diaphragm and adapted to rest upon the seat of said receptacle and an exit conduit leading from the interior of said receptacle to the exterior thereof.

1,455,118. AUXILIARY-TIRE CARRIER. JULIUS C. MANOCK, Angiola, Calif. Filed Sept. 15, 1921. Serial No. 500,893. 1 Claim. (Cl. 224—29.)

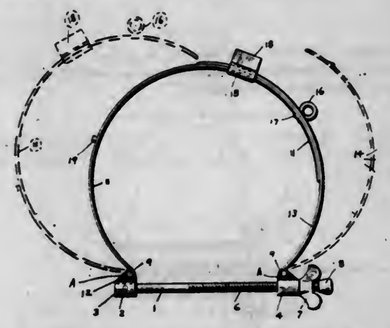
An auxiliary tire carrying attachment, comprising a U-band and a bolt adapted to embrace and be secured to

an auxiliary tire supported and carried by an automobile, a second U-band secured to one limb of said first named



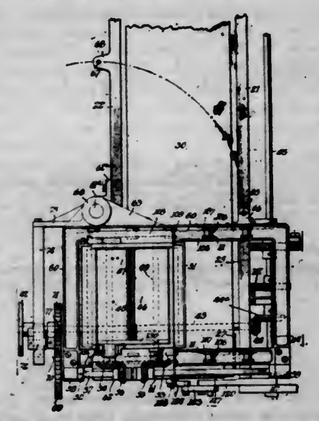
band, and of a size to embrace a second tire, and a tire supporting chair secured to and supported by said second U-band.

1,455,119. SECURING MEANS FOR SPARE TIRES. JULIUS C. MANOCK, Angiola, Calif. Filed May 31, 1922. Serial No. 564,816. 2 Claims. (Cl. 70—17.)



1. A tire lock and anti-vibrator, comprising, in combination, two arcuate members of conformable curvature, said members hingedly connected at one end, said connection including two lugs on a bar, one fixed and one slidable thereon, and means for urging said slidable lug toward said fixed lug, and securing the same.

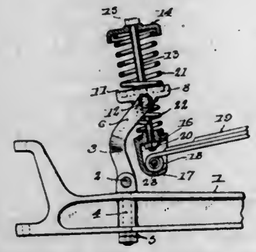
1,455,120. DOUGH-SHEETING APPARATUS. FRANK M. PETERS and WARREN H. HUNGERFORD, Chicago, Ill., assignors to Peters Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1921. Serial No. 437,390. 13 Claims. (Cl. 107—12.)



1. In dough rolling apparatus, the combination of a travelling conveyor, roll means arranged to deliver a dough sheet to said conveyor, and means for swinging said roll means to change the delivery of the dough sheet relative to the direction of travel of the conveyor.

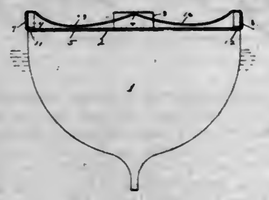
5. Dough sheeting aparatus comprising a belt conveyor, a pair of rolls for forming a dough sheet and delivering same cross-wise of the conveyor, and means for bodily reciprocating said rolls as a unit cross-wise of the belt.

1,455,121. SHOCK ABSORBER. CHARLES C. PFLITTNER, Barton, Wis. Filed Feb. 5, 1921. Serial No. 442,708. 3 Claims. (Cl. 267—29.)



1. A shock absorber comprising a fork-shaped member adapted to be attached to a portion of the chassis of an automobile, an apertured member pivotally mounted within said stationary fork-shaped member, a rod provided with a sliding bearing in the apertured member, a spring positioned upon each side of said apertured member and surrounding said rod, means for operatively connecting said rod with the outer ends of the springs, and means for connecting the lower end of said rod with the eye of an automobile spring.

1,455,122. WRECK-RETRIEVING DEVICE. HENRY J. SCHMITT, Portland, Oreg. Filed Sept. 4, 1919. Serial No. 321,632. 3 Claims. (Cl. 9—9.)

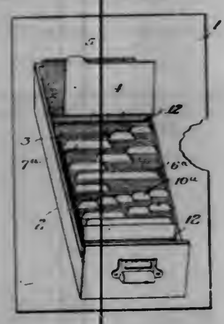


3. The combination with the top deck of a ship having transversely disposed openings in the side walls thereof, a buoy casing provided with a pivotal lid mounted on said deck intermediate the said side walls, a buoy normally housed in said casing, an endless line slidably connected to the buoy and extending transversely across the deck through said openings, and means when the ship is submerged below the surface of the water for automatically raising the lid in said casing and permitting the buoy to float to the surface for the purpose specified.

1,455,123. ILLUSTRATIVE DISPLAY SHEET. ISAAC G. STEVENS, Rochester, N. Y., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed Mar. 16, 1922. Serial No. 544,328. 2 Claims (Cl. 35—17.)

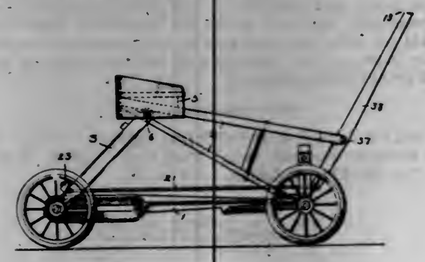
1. The combination with an illustrative display sheet bearing a pictorial representation of an index file in

perspective view including a container and a series of indexed elements therein having index tabs, the sheet being slotted along a line indicative of the position of



one such element, of a physical specimen of such element adapted to be inserted in the slot and having an index tab adapted to project therefrom in simulation of the tabs represented in connection with the pictorial units.

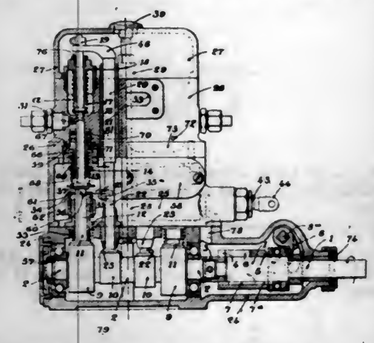
1,455,124. VEHICLE. JOHN SWINLAND, Duluth, Minn. Filed Apr. 13, 1922. Serial No. 552,078. 4 Claims. (Cl. 208—37.)



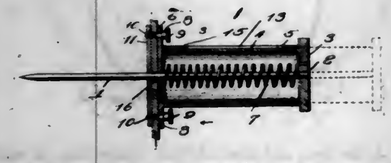
1. A wheeled vehicle of the class described comprising a front axle, a rear axle, a reach uniting said axles, a superimposed two part frame structure one part of which is pivotally mounted upon the forward end of the reach and the other part pivotally carried upon the rear axle, a seat in close juxtaposition to the pivotal union of the two parts, a lever pivoted in the forward end of the first mentioned part of the superstructure and operable from the seat, means connecting the lower end of the lever with the lower end of the second mentioned part, means whereby the rear axle may be operated independently of the action of the reach, and means cooperatively uniting the rear axle and the reach whereby independent motion of either will rotate the axle forwardly for the purpose described.

1,455,125. FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES. EUGÈNE HENRI TARTRAIS, Maisons-Laffitte, France. Filed July 16, 1921. Serial No. 485,233. 7 Claims. (Cl. 123—140.)

1. A pump for injecting liquid fuel for internal combustion engines comprising a pump body, a piston movable in said pump body, a rotary driving shaft, a cam on said shaft for actuating the piston in its discharge stroke, a spring for actuating the piston in its suction stroke and an adjustable stop member for limiting the suction stroke of the piston, the cam having its maximum diameter over a portion extending at least about half the circumference whereby the piston is lifted and the adjustable stop member is relieved for a considerable part of each revolution of the cam.

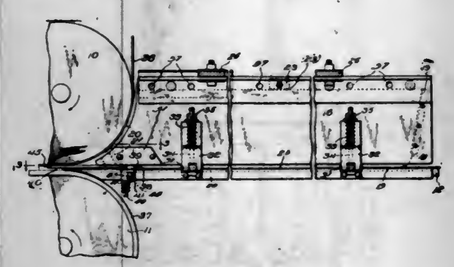


1,455,126. HATPIN. YUKINO TSUTSUI, Seattle, Wash. Filed Oct. 19, 1922. Serial No. 595,543. 1 Claim. (Cl. 132—71.)



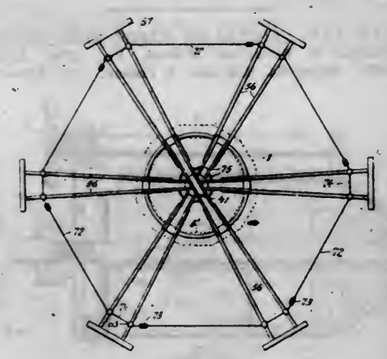
A hat pin, comprising a pair of tubular telescopic members, a pin mounted in one member extending through a slot formed in the other member for limiting the telescopic movement of the members and preventing disengagement thereof, a pin secured in one member extending through the other and adapted to be contained in said members in extended relation, resilient means for normally holding the members in telescoped relation to project the pin, means for holding the members in extended relation against the tension of the spring, and means for securing the other member to a hat.

1,455,127. PLASTER-BOARD APPARATUS. CLARENCE W. UTZMAN, Buffalo, N. Y., assignor, by mesne assignments, to The Beaver Products Company, Inc., a Corporation of New York. Filed June 14, 1922. Serial No. 568,272. 34 Claims. (Cl. 154—1.)



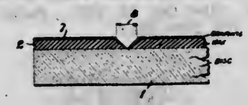
22. In apparatus for making plaster board, the combination with the usual spreading rolls of a hopper side having a point extending to said rolls and arranged to permit the margin of a cover sheet to pass under it, a folding device pivotally mounted and located in the path of the cover sheet margin for folding up the margin along the outer side of said hopper side, said folding device having a member running along the folded margin and extending beyond the end of the hopper side, and a spring associated with said member for pressing the latter against the folded margin and capable of permitting said member to yield.

1,455,128. CARROUSEL. RUDYARD S. UZZELL, Jamaica, N. Y. Filed June 17, 1920. Serial No. 389,786. 6 Claims. (Cl. 46—27.)



4. In a carrousel, a tower, a series of rotatable car supporting frames separably mounted on said tower, arms extending outward from said frames, and longitudinally resilient rods connecting said arms together, said rods being arranged to expand or contract independently of one another.

1,455,129. PHONOGRAPH RECORD AND RECORD BLANK AND METHOD OF MAKING THE SAME. WILLIAM M. VENABLE, Pittsburgh, Pa. Filed Mar. 6, 1920. Serial No. 363,746. 7 Claims. (Cl. 91—68.)



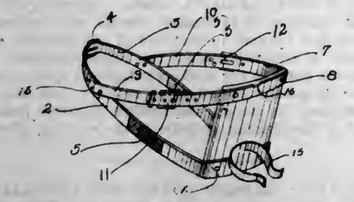
1. The method of preparing a phonograph record blank for recording purposes which consists in warming the disc or plate, in applying a film of melted wax, and in cooling the disc or plate before cooling the exposed surface of the melted wax.

3. The method of preparing a phonograph record blank which consists in covering the surface of the disc or plate with a solution of wax in a volatile solvent, in floating the disc upon melted wax until the solvent has evaporated, and in cooling the blank by placing it upon cold water.

4. As a new article of manufacture, a record blank comprising a disc of glass having a covering of wax and one of graphite thereover.

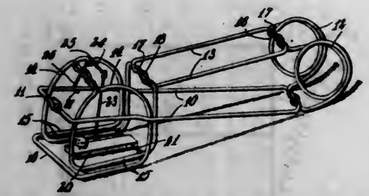
1,455,130. MINER'S LAMP. WILLIAM W. ZICKLER, Mullan, Idaho. Filed Apr. 10, 1922. Serial No. 551,324. 1 Claim. (Cl. 240—60.)

The combination with a pad of a band having elastic portions therein and a rear detachable fastening device for the free ends of the band, a crown band comprising a strap fixed on the pad and formed with a socket, side straps attached to the first mentioned band, detachable fastening devices connecting the ends of the fixed strap



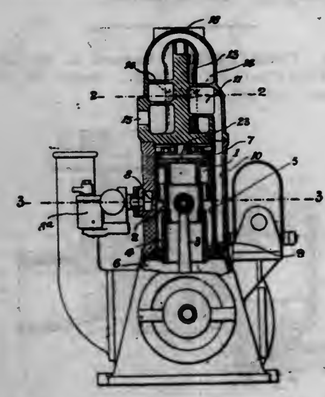
and the free ends of the side straps, and a clamp fixed to said pad having resilient retaining arms.

1,455,131. ANIMAL TRAP. EDWARD L. ZIOLA, Ashton, Nebr. Filed Apr. 6, 1922. Serial No. 550,133. 3 Claims. (Cl. 43—81.)



1. An animal trap comprising a single length of wire arranged in the form of a pair of vertical loops at its rear end, and having a pair of reaches extending forwardly from the lower sides of said loops and united at their forward ends in a movable jaw element, said wire having a pair of reaches extending forwardly from the upper sides of said loops and arranged at their forward ends in the form of vertical loops having flat bottom portions, said last loops being substantially parallel to said reaches and united at their lower forward ends by the intermediate portion of the wire which constitutes a fixed jaw, and a trigger device holding said movable jaw element raised.

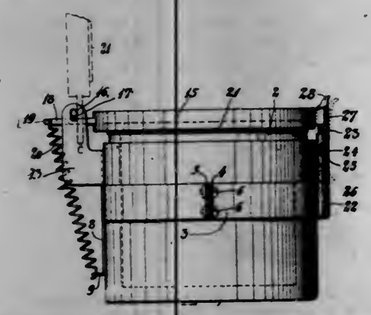
1,455,132. INTERNAL-COMBUSTION ENGINE. JOHN DAVIDSON, Tutbury, Burton-on-Trent, England. Filed Apr. 28, 1921. Serial No. 465,214. 4 Claims. (Cl. 123—53.) (Granted under the provision of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an internal combustion engine of the specified type, working cylinders; a crank chamber; a charging

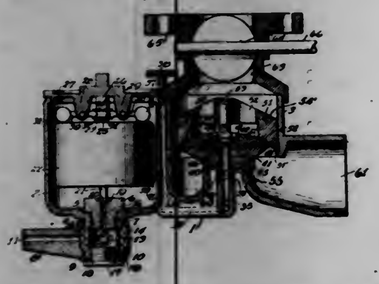
cylinder between the working cylinders and the crank chamber; working pistons in the working cylinders; a charging piston in the charging cylinder rigidly connected to said working pistons; a tubular extension on said charging cylinder; a stationary tubular guide embracing said extension; a port in that end of the charging cylinder which is situated nearest the crank chamber; inlet and exhaust ports in the working cylinders; and a passage between the port in the charging cylinder and said inlet ports adapted to convey combustible mixture from the said end of the charging cylinder to the working cylinders.

1,455,133. HINGED COVER FOR CONTAINERS. FRANK WELLINGTON DOWNS, Washburn, Wis. Filed Nov. 25, 1921. Serial No. 517,590. 4 Claims. (Cl. 220—35.)



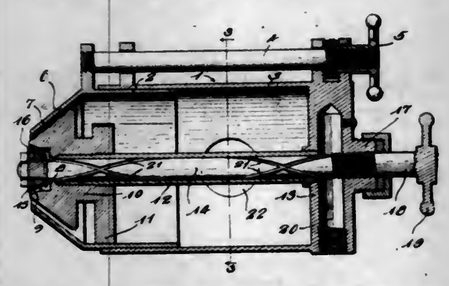
3. The combination with a container having an open mouth, of a supporting band removably secured about said container adjacent the mouth thereof, a pair of vertical bearing members integral said band, each of said bearing members being provided with a vertical slot adjacent the upper edge thereof, a cover to seal said mouth, a rubber gasket carrier on the under surface of said cover and adapted to register with the mouth of said container, said cover being provided with a rearwardly extending portion having a transverse shaft carried adjacent the outer end thereof, said transverse shaft being mounted at each end in said slots, a tension spring connected at one end to said rearwardly extending portion of said cover and at its other end to said band, a spring pressed plunger disposed on said band and adapted to press against said cover at the front edge thereof when said cover is closed, and a spring actuated clasp for locking said cover in a sealed position.

1,455,134. CARBURETOR. EDWARD E. ECKERT, Chicago, Ill. Filed Jan. 5, 1921. Serial No. 435,205. 3 Claims. (Cl. 261—44.)



1. In a carburetor, a cylindrical mixing chamber, a fuel feeding head comprising two conical heads, said conical heads having their bases disposed adjacent to each other and being of the same diameter, the lower head having a centrally raised portion spacing the upper conical head therefrom, and having an annular groove disposed adjacent to the raised portion, said raised portion having radial grooves therein, a tubular member connecting said conical heads together and having a cylindrical portion projecting above the upper conical head, said tubular member having openings therein communicating with said grooves, and a ring slidably disposed in said chamber and having a recess adapted to snugly receive the upper end of said tubular member, said ring being adapted to move with respect to said tubular member.

1,455,135. LIQUID OR VAPOR FUEL BURNER. CHARLES O. EVERHART, Warren, Pa. Filed Jan. 9, 1922. Serial No. 528,059. 5 Claims. (Cl. 158—76.)



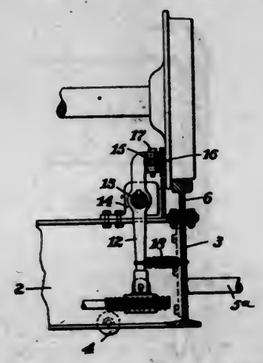
1. A burner comprising a casing having a fluid pressure inlet, the front end of said casing being open and having a frusto-conical forwardly tapered flange, the rear end of said body being closed, a frusto-conical head within and in closely spaced relation with said flange, the front end of said head having a central recess, a peripherally grooved atomizer mounted in said recess and increasing in size toward its front end to spray a multiplicity of fuel jets into the fluid pressure discharged between said flange and head, and a fuel supply tube discharging into said recess.

1,455,136. OIL SEPARATOR. PERRY H. GENTZEL, Newton, Mass. Filed Oct. 13, 1919. Serial No. 330,179. 1 Claim. (Cl. 210—164.)



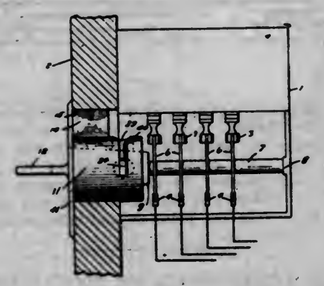
A filter for removing oil from water passing from a condenser to the boiler of a steam power plant, comprising a casing having a head removable therefrom, said casing having an opening in its wall for communication with a condenser and another opening in the bottom of the casing for communication with a boiler, a filter mounted concentrically within the tube and spaced from the wall of the casing to form an annular chamber, said filter being closed at the top by the head of the casing and in communication with the said opening in the bottom of the casing, a wire gauze screen covering said tube, and the wire gauze screen surrounded by textile material in the nature of linen terry cloth, substantially as set forth.

1,455,137. RAILWAY BRAKE. HARRY R. GRIFFITHS and SAMUEL G. WALKER, Baltimore, Md. Filed May 28, 1921. Serial No. 473,550. 1 Claim. (Cl. 188—62.)



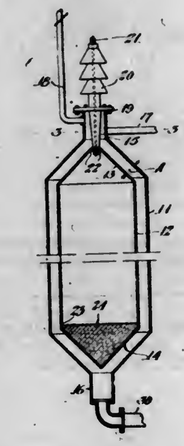
In combination, a railroad cradle adapted to empty loaded cars, a track thereon, brake mechanism between the rails of said track including a pivot member extending below and above said track, the upper part thereof carrying car wheel engaging means, the lower part being attached to actuating means adapted to cause the wheel engaging means to approach a car wheel upon the track, said wheel engaging means being carried in a slot in the upper end of the pivoted member by a lost motion connection.

1,455,138. AUTOMOBILE LOCK. CHARLES A. HABENICHT, San Francisco, Calif. Filed Apr. 4, 1921. Serial No. 458,238. 3 Claims. (Cl. 70—46.)



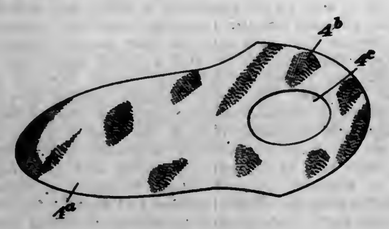
1. In combination with a supporting board, a detachable switch lock comprising a housing adapted to be inserted in the board having means thereon for locking the same against rotary motion, a switch controlling plug associated with the housing and locking means for the plug, comprising means for locking the plug against rotation and means for simultaneously locking the plug to the housing and the board against longitudinal motion.

1,455,139. ELECTRIC DEHYDRATOR. FORD W. HARRIS, Los Angeles, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Oct. 19, 1920. Serial No. 418,059. 3 Claims. (Cl. 204—24.)



1. An electric dehydrator for petroleum emulsions comprising an outer electrode; an inner electrode supported so that an electric field of substantially uniform thickness is formed between said electrodes; and means for causing a rapid agitation of the emulsion to be treated to all points between said electrodes having a wider separation than the thickness of said field.

1,455,140. RUBBER FOOTWEAR. THEODORE E. LA FAYETTE, ALFRED A. GLIDDEN, and JOHN J. GAUGHAN, Watertown, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1920. Serial No. 434,042. 1 Claim. (Cl. 36—6.)

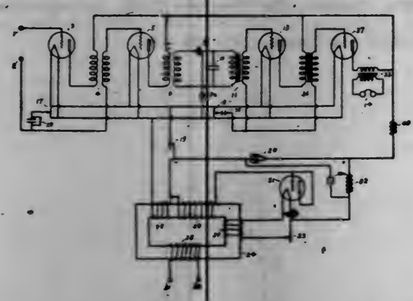


An article for forming the upper and heel strap of a rubber overshoe of the foothold type comprising a blank of fabric of substantially elliptical shape having a widened-out rear portion provided with a central opening, the rear edge of the blank being substantially concentric to the rear edge of said opening.

1,455,141. RADIO RECEIVING APPARATUS. PERCIVAL D. LOWELL and FRANCIS W. DUNMORE, Washington, D. C. Filed Mar. 27, 1922. Serial No. 547,111. 21 Claims. (Cl. 250—20.)

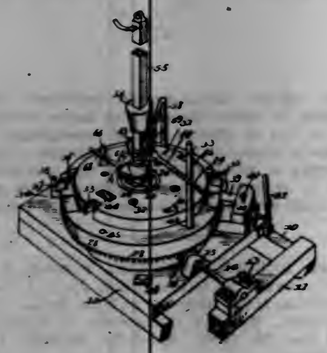
1. In an apparatus for receiving radio signals the combination of a source of signal energy, means for amplifying said energy, means for rectifying said

energy, and a source of alternating current for supplying power to said amplifying means and a plurality of



means in circuit with said amplifying means for eliminating the hum of said alternating current in said apparatus.

1,455,142. ROTARY TABLE FOR WELL BORING. JOSEPH D. LOYD, Hosston, La. Filed Sept. 10, 1921. Serial No. 499,675. 9 Claims. (Cl. 255—23.)



1. In a well boring apparatus, a rotary top including a base, an inner annular turntable operatively supported for rotation upon said base, an outer annular turntable disposed concentrically to and with its upper face in approximate alignment with the upper face of the inner turntable, the inner turntable having a tubular, centrally disposed member extending upward therethrough and extending through the base, a plate carried by the inner turntable and extending outward over the upper face of the outer turntable, said plate being less in diameter than the outer turntable, a bushing carried within the tubular member and engaged for rotation therewith and adapted to receive a driving bushing or pipe gripping slips, a pair of pipe gripping means engaging with each of said turntables, power operated means for rotating the outer turntable, and means for locking both turntables together for unitary movement and for locking the inner turntable against movement.

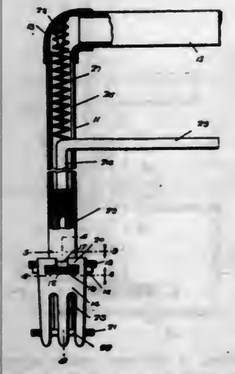
1,455,143. MEDAL HOLDER. ALBERT MAURER, New York, N. Y. Filed Nov. 15, 1921. Serial No. 515,214. 1 Claim. (Cl. 40—1.6.)

In a medal holder, the combination of a flexible bar for supporting a ribbon, seating members for pins secured to said bar, pins secured in said seating members, filler members secured to said bar between said seating members, a cloth covering secured about said bar and filler members, and hollow holding members having a threaded perforation and adapted to be screwed upon said pins, said pins being adapted to be inserted through



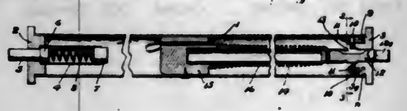
a garment, and said holding members being adapted to bear against the inner surface of said garment, whereby said bar is detachably secured thereto.

1,455,144. WEED EXTRACTOR. WALTER C. MOORE, Owensboro, Ky. Filed May 11, 1922. Serial No. 560,052. 6 Claims. (Cl. 55—65.)



4. A weed extractor comprising a shank, a pair of plates secured to the shank, jaws, one of said plates having portions on which the jaws are fitted for swinging movement, and the other plate having slots receiving the jaws for retaining same on said portions, and operating means connected to the jaws.

1,455,145. SHADE ROLLER. ANTHONY MORPETH, Muskegon, Mich. Filed May 3, 1920. Serial No. 378,504. 4 Claims. (Cl. 156—36.)

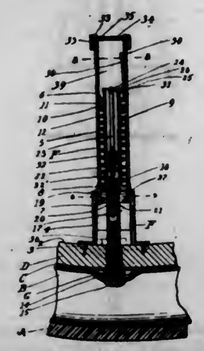


3. A shade roller comprising a hollow elongated metal body, a plug having an annular groove cut around the same inserted in one end of the body and soldered thereto, and pawls pivotally mounted on the plug at the inner end thereof, the pivot pins passing into the plug and to said groove, being headed in said groove to secure the pins on the plug, substantially as described.

1,455,146. SIGNAL DEVICE FOR TIRE VALVES. ALBERT NELSON, Wheaton, Minn. Filed May 19, 1922. Serial No. 562,139. 6 Claims. (Cl. 116—34.)

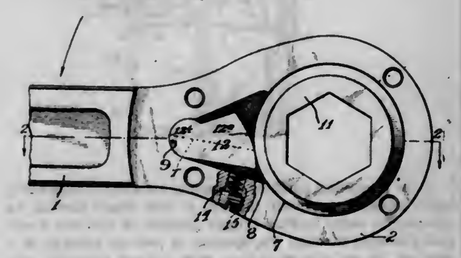
4. The combination with a wheel rim and a tire valve, projected radially loosely therethrough and being operatively connected to an inflatable tire carried by said rim, and formed with an upwardly facing annular shoulder near its top and having an air discharge valve and an actuating stem therefor, an elongated cylindrical casing carried by the rim completely enclosing the tire

valve, said casing having a soft rubber top wall, adapted to fracture under the pressure in the tire, a tubular open ended piston slidable longitudinally in said casing, the lower open end of the piston resting on said annular shoulder to form an air-tight joint therewith, means for urging the tire valve against the inflatable tire, said piston dividing the interior of said casing into an upper and lower chamber, the hollow of said piston being in



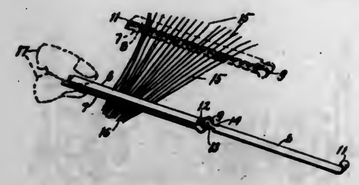
open communication with said upper chamber and adapted to receive the discharge from said discharge valve, a member carried by the piston pivotally mounted in a manner to be movable therein to actuate said actuating stem when said member is moved, a stationary member carried by the casing to engage with said member to move it during a piston movement, and a construction whereby the casing may be extended or contracted lengthwise.

1,455,147. WRENCH AND THE LIKE. WILLIAM J. O'NEILL, Oak Park, Ill., assignor to Edgar C. Guthard, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,169. 5 Claims. (Cl. 81—61.)



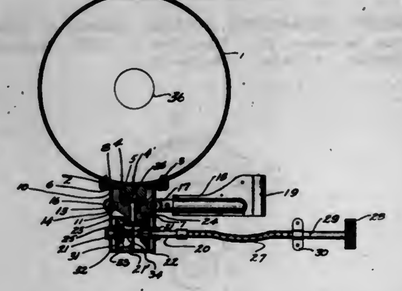
1. A tool comprising a lever provided with a head portion having a transverse aperture forming a wheel seat, a wheel rotatably mounted in said seat and having retaining bearing on parts of the head portion above the aperture, said wheel having a cylindrical peripheral friction surface, said head portion affording a dog seat adjacent the wheel seat and having a wall providing a rocker bearing, a dog mounted in said dog seat and having a journal portion in bearing engagement with the rocker bearing and an oscillatory body portion having an eccentric convexly arcuate surface in rocking engagement with the periphery of the wheel, and yielding pressure means effective to permit oscillation of the dog and maintain it in engagement with the wheel.

1,455,148. HAIR CURLER. ALBERT W. ROSSBERG, St. Paul, Minn. Filed May 18, 1922. Serial No. 561,960. 3 Claims. (Cl. 132—41.)



1. In a device of the class described, a main member of resilient material comprising two flat, smooth and integral arms of unequal length and normally spread apart gradually to their free ends, a second member comprising a curved extended arm of resilient material pivotally connected to the main member at the junction of its arms and adapted to be swung into coacting relation with the longer arm of the main member and engaging means on the free end of the second member for holding it in said coacting relation.

1,455,149. DIRIGIBLE LAMP. WILLIAM SCHIERDING, Spokane, Wash. Filed Feb. 18, 1922. Serial No. 537,470. 5 Claims. (Cl. 240—7.)



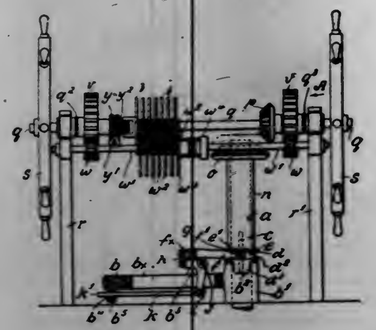
1. The combination in a dirigible lamp, with its fixed base plate and an arcuate rack-rib thereon, of a casing, a head in said casing and grooved to receive said rib, means for guiding said rib, a stud shaft in the head and a rack wheel thereon engaging the rack rib, and means for turning said shaft to tilt the lamp.

1,455,150. SPARK-PLUG CLEANER. AUGUST M. SEAVER, Grand Rapids, Mich. Filed Jan. 9, 1922. Serial No. 528,074. 1 Claim. (Cl. 15—104.01.)



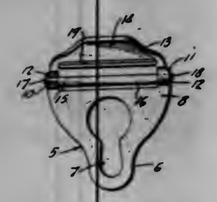
A spark plug cleaner formed from a single length of material bent at its middle portion to provide two spaced apart nearly parallel legs, each of said legs at its free end portion being of rectangular cross section to provide a relatively thin blade, substantially as and for the purposes described.

1,455,151. STEERING GEAR FOR STEAMSHIPS. JOHN T. SHAW, CHARLES ADOLPHUS WEYMOUTH, and BEN HARRY PEARSON, Huddersfield, England. Filed June 22, 1921. Serial No. 479,678. 13 Claims. (Cl. 114—146.)



1. In steering gear for steamships, a quadrant adapted to be controlled by power gear, a rudder post, means for operatively connecting the quadrant to said rudder post, and means whereby on the quadrant swinging through an arc of predetermined length in either direction it is disconnected from the rudder post.

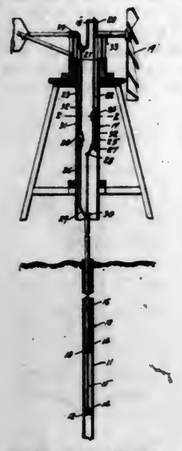
1,455,152. BRASSIÈRE HOLDER. ROBERT C. SHEAFFER, Lancaster, Pa. Filed Nov. 2, 1922. Serial No. 598,552. 1 Claim. (Cl. 24—73.)



A brassière holder comprising a plate having a key hole slot for the reception of the stud of a corset fastener, one end portion of the plate being extended at right angles to the major portion of said plate to provide a jaw, said jaw having bearing extensions projecting therefrom, and in the plane of the jaw, a clamping lever, one end portion of said lever being extended in angular relation to and inclined toward the lever to provide a jaw, and to permit the opposite end portion of the lever to be normally disposed closely adjacent the plate in an inclined position, trunnions projecting from the ends of the jaw and adapted to engage the bearing extensions, said lever having an elongated slot adjacent the jaw thereof for the reception of a length of material, extending from that portion of the material clamped between said jaws.

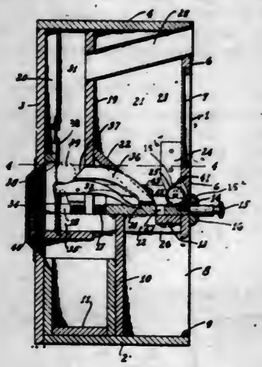
1,455,153. PUMPING APPARATUS. HENRY H. SMITH, Cherryvale, N. Mex. Filed Aug. 23, 1922. Serial No. 583,836. 2 Claims. (Cl. 103—59.)

1. The combination with a pump embodying a barrel, upper and lower pistons operating within the barrel, the upper piston having a tubular stem and the lower piston having a stem extending upwardly through the tubular stem of the upper piston, and a swivel head windmill embodying a drive shaft provided with cranks, of pump rods having swivel connection with the stems of said pistons, connecting rods connecting the pump rods with said



cranks, and a connection between the windmill head and pump rods maintaining a fixed axial relation therebetween.

1,455,154. VENDING MACHINE. SOLON G. THOMAS and ROCHELL E. KIGHT, Cordell, Okla. Filed Sept. 10, 1921. Serial No. 499,596. 3 Claims. (Cl. 194—57.)

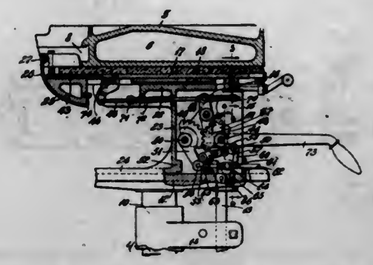


1. In a vending machine, a casing, an article dispensing valve slidably mounted therein, a coin chute having an opening, a valve locking trigger pivoted in the coin chute and extended through the opening to prevent passage of a coin of proper denomination, said trigger normally preventing a discharge movement of the valve, and a plunger carried by the valve and operated in the discharge movement thereof to force a coin through said opening and throw the trigger out of locking position.

1,455,155. IRONING MACHINE. CHARLES E. WARHAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Original application filed July 2, 1917, Serial No. 178,286. Divided and this application filed Nov. 13, 1917. Serial No. 201,785. 11 Claims. (Cl. 68—9.)

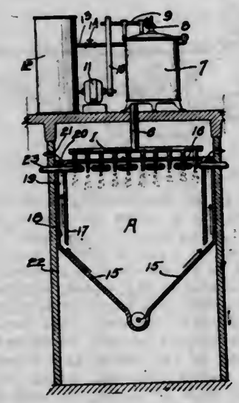
1. An ironing machine, comprising an ironing chest, an ironing board having movement into and out of

registering relation with said chest, means for producing relative ironing movement of said chest and board when in registering relation, a back yoke ironer co-operating



with said board, and means for moving said back yoke ironer into ironing relation with said board only when the latter is out of registering relation with said chest.

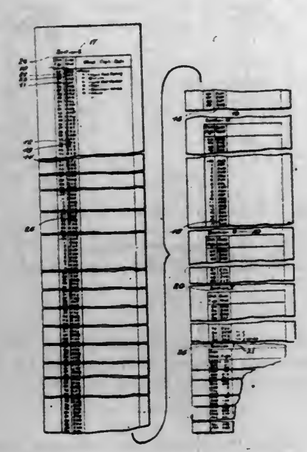
1,455,156. APPARATUS FOR REFRIGERATION. RUSSELL A. WILLSON, Spokane, Wash., assignor of one-half to Fred N. Martin, Spokane, Wash. Filed Oct. 11, 1921. Serial No. 507,004. 6 Claims. (Cl. 62—114.)



1. The combination with an enclosure and means therein for maintaining the atmosphere at a temperature below the freezing point, of liquid atomizers in said enclosure, means for receiving the congealed atoms from said atomizers, and spaced interior walls within the enclosure with their lower ends terminating above the bottom of the enclosure to form venting spaces.

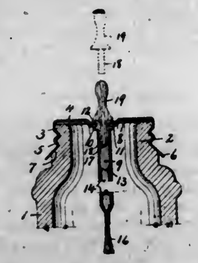
1,455,157. CODE TABLE. CHARLES F. WOOD, Chicago, Ill. Filed Feb. 2, 1921, Serial No. 441,889. Renewed Apr. 9, 1923. 7 Claims. (Cl. 283—17.)

1. A code table comprising, in combination, a column of syllables divided into sections, the syllables in each section being substantially like the syllables in other sections, each syllable comprising two consonants separated by a vowel, a designating vowel for each sec-



tion and a column of arbitrary meanings one for each syllable, the meanings for like syllables in the various sections differing.

1,455,158. COMBINATION OF BOTTLE CAP AND BRUSH HOLDER. ALONZO WOODRUFF, Auburn, N. Y. Filed July 19, 1921. Serial No. 485,833. 1 Claim. (Cl. 91—67.2.)

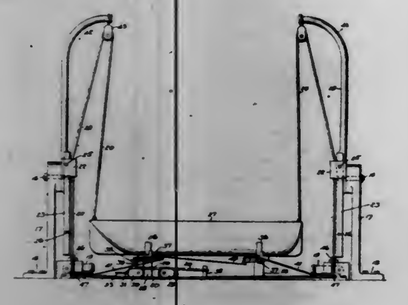


A bottle cap having a substantially flat top and a downwardly projecting marginal flange threaded for screw engagement with the mouth of a bottle, in combination with a brush holder having a tubular upper end secured co-axially in an opening in said top wholly below the upper flat face thereof, and a handle having a stem slidably engaged in the tubular upper end of the brush holder.

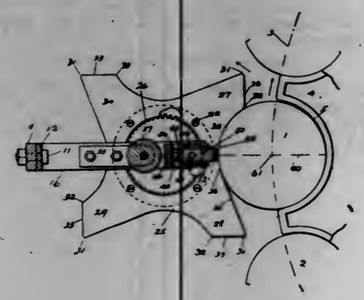
1,455,159. BOAT-LAUNCHING MECHANISM. GEORGE WRIGHT, South Orange, N. J. Filed Sept. 24, 1919. Serial No. 326,031. 6 Claims. (Cl. 9—22.)

1. A mechanism as characterized comprising a plurality of boat handling mechanisms each embodying a plurality

of suspension davits, pivots for said davits, a plurality of guide pulleys slidably mounted on said davits for adjustment at opposite sides of said pivots, and hoisting cables operatively mounted on said davits for engaging the said guide pulleys in adjusted positions.



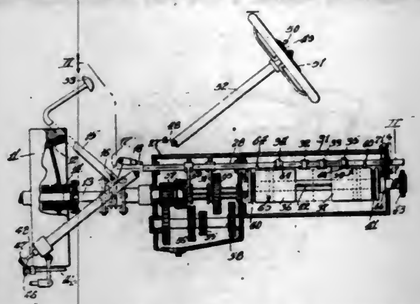
1,455,160. MARKER. BUNZUCHI YOSHINAGA, Vancouver, Wash. Filed Nov. 11, 1919. Serial No. 337,132. 5 Claims. (Cl. 101—37.)



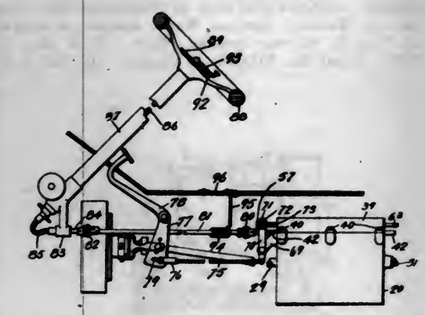
1. In a machine for the purpose described, the combination with a rotatory printing member, and horizontally disposed rotatable means for actuating the same with printing effect upon the side of each of a succession of objects, of rotative mechanism operating in a plane parallel to that of the said rotatable means to effect the constant movement of objects in regular spaced order through a fixed arcuate course intersecting that of the said rotatable means with operative impelling force against the rotatable means.

1,455,161. GEAR SELECTING AND CHANGING DEVICE. JASPER BLACKBURN, Webster Groves, Mo. Filed Sept. 2, 1919. Serial No. 321,106. 12 Claims. (Cl. 74—58.)

1. A gear selecting and changing device comprising in combination with a sliding gear transmission provided with gear shifting bars and forks, a pair of spaced apart reciprocating and rotating members, pins carried by said members, fingers mounted on the gear shifting bars, means for adjusting said rotating and reciprocating members from the steering wheel, so that certain ones of said projections may contact with and actuate certain of said fingers and the bars on which they are mounted, a foot pedal, means for preventing accidental movement of the gear shifting bars, and a rod and lever connection between said foot pedal and rotating and reciprocating members for moving them both simultaneously in the opposite direction.



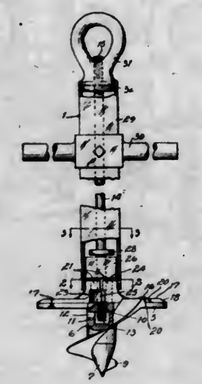
1,455,162. GEAR SELECTING AND SHIFTING DEVICE FOR MOTOR VEHICLES. JASPER BLACKBURN, Webster Groves, Mo. Filed Feb. 7, 1920. Serial No. 357,032. 15 Claims. (Cl. 74—58.)



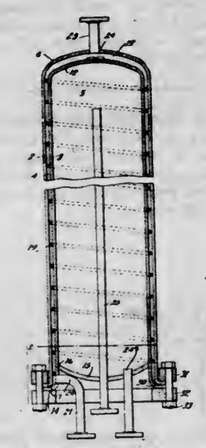
1. In a device of the class described comprising a sliding gear transmission, a casing surrounding said transmission, a second casing secured to the upper end of said first mentioned casing, a pair of sliding bars having projections mounted in second mentioned casing, a splined shaft mounted central of the second mentioned casing and between the sliding bars, sleeves slidably mounted on said shaft and rotatable therewith lugs formed on the sleeves, said lugs adapted to come in contact with the projections formed on the sliding bars a pair of rods mounted in the second mentioned casing, means interposed between the rods for moving the same in opposite directions simultaneously, means for connecting the rods and movable sleeves so as to impart motion to the sleeves, a preselecting device mounted on the steering column of an automobile, a flexible shaft connection extending from the preselecting device through the steering column and connected to the shaft, a lever mechanism for operating one of said movable rods in combination with an engine and its clutch, and means for simultaneously operating the lever by the disengagement of the engine clutch.

1,455,163. EXPANDING SCREW ANCHOR. JASPER BLACKBURN, St. Louis, Mo. Filed Feb. 9, 1922. Serial No. 535,213. 3 Claims. (Cl. 189—92.)

1. An expanding screw anchor comprising a boring member in the form of a disc, a pointed projection formed integral with the underside of said disc, a helix encircling said pointed projection and integral therewith and with said disc, an opening formed in said disc adjacent the upper portion of said helix, expanding plates pivotally secured to the upper surface of said disc, a rod secured in said disc and projection, an expanding member loosely located on said rod, means for preventing lateral movement of said expanding member, under cut projections integrally formed with the expanding plates, said under cut projections surrounding the lower portion of the expanding member, a rectangular portion formed integral with the expanding member and above the under cut projections, and a wrench for inserting said anchor into the ground and for rotating the expanding member for forcing the expanding blades outward when the anchor is sunk into the ground.

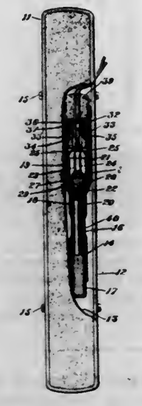


1,455,164. OIL HEATER. GARNET W. COEN, San Francisco, Calif. Filed Sept. 28, 1921. Serial No. 503,728. 6 Claims. (Cl. 257—232.)



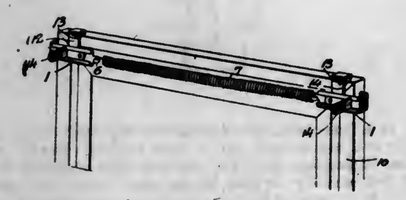
2. A heater comprising a pair of concentric cylindrical telescoping shells, said shells being interspaced to form an annular liquid flow passage between the shells, an integral head member for each shell forming a closure for the upper end thereof, said heads being interspaced, a head member forming a closure for the lower end of the inner shell and welded thereto, said head member forming an inner heating medium chamber, means for circulating a heating medium therethrough, means for admitting oil to the lower end of the annular flow passage, means for discharging the oil from the upper end thereof, an annular outwardly extending flange formed on the lower end of each shell and one disposed on top of the other, a gasket interposed between the flanges, an upper and a lower annular clamping ring engaging the respective flanges, and bolts connecting the respective clamping rings.

1,455,165. DELAY-ACTION EXPLODER. ELMER CUDNEY, Stege, Calif. Filed Nov. 3, 1920. Serial No. 421,488. 7 Claims. (Cl. 102—10.)



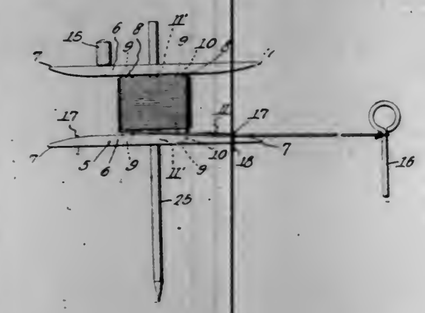
1. A delay action exploder including a fulminating cap, a fuse secured to one end thereof, a container for an ignition charge of explosive, a second container inclosing the first named container to form a combustion chamber, a spitter shell having one end closed inclosing said containers and secured to the fuse, electrical exploding means extending into the spitter shell and into the first named container, and a filter plug between the said containers and the closed end of the spitter shell, and means to circulate the gases of combustion from the inner container through the filter plug.

1,455,166. SHADE HOLDER. AMOS R. HINDERLITER, Falls Creek, Pa. Filed July 26, 1920. Serial No. 398,880. 1 Claim. (Cl. 156—23.)



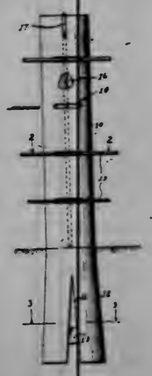
A shade roller bracket comprising a supporting base of rectangular shape having its longitudinal edges inturned to provide guide flanges, an angle shade engaging bracket received in said guiding flanges, said base having one end reduced and bent upon itself to provide a spring engaging eye, the opposite end of said base being flanged inwardly and the flanged portion being bent at a right angle and toothed, a clamp pivotally secured to the base and having its free end bent and designed to provide gripping teeth as and for the purpose specified.

1,455,167. HAND REEL. JOHN JOSLIN, Princeville, Ill. Filed Dec. 8, 1922. Serial No. 605,659. 2 Claims. (Cl. 242—96.)



1. A hand reel comprising a frame including a pair of spaced longitudinal side members, transverse members connecting the side members and having the line wound thereon, and a resilient clamping element secured to one side member near its end, said resilient clamping element including an arm extending transversely over the edge of the side member and projecting laterally beyond the outer side face of the same for a substantial distance, the outer end portion of the arm constituting a guide for the line brought in proximity to the outer face of the side member.

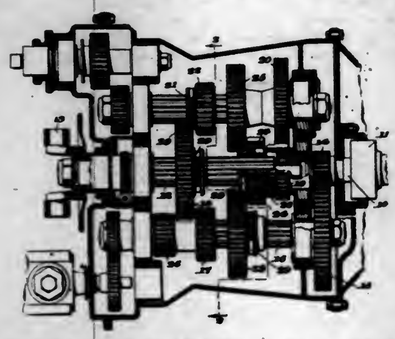
1,455,168. FENCEPOST. HENRY T. KLINE, Warsaw, Ind. Filed Jan. 11, 1922. Serial No. 436,471. 2 Claims. (Cl. 189—31.)



1. In a fence post, the combination of a shell having a slit in one end thereof, and a rigid unitary spreader of greater dimensions than the internal dimensions of the shell permanently wedged in the shell from said end thereof to be carried by the shell flaring the shell at its adjacent extremity and sustaining said extremity of the shell flared.

1,455,169. MOTOR VEHICLE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 7, 1920. Serial No. 356,823. 7 Claims. (Cl. 74—58.)

1. In a motor vehicle, a change speed mechanism having a drive shaft in two sections, gears on said sections a pair of counter shafts having gears thereon adapted for engagement with the corresponding gears on the drive shaft and including shiftable gears, one of said drive shaft



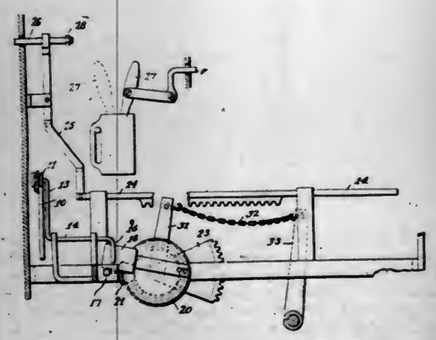
shiftable gears being movable with a gear on the other counter shaft, and shifting means operable to effect said joint operations.

1,455,170. PENCIL. WALTER R. NOE, New York, N. Y. Filed Nov. 18, 1921. Serial No. 516,105. 3 Claims. (Cl. 120—18.)



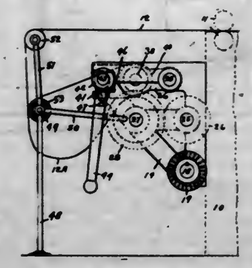
3. A pencil of the kind described comprising a barrel provided with an open ended slot and a transverse recess communicating therewith, a clip mounted upon said barrel and concealing said slot and recess, mechanism within said barrel for advancing a lead, a shoulder connected with said mechanism and located externally of said barrel at one end thereof, and a tongue operatively combined with said shoulder and movable through said slot and into said recess to resist a separation of said shoulder from said barrel, said tongue being arranged to frictionally engage said clip and being held thereby against unintentional displacement.

1,455,171. STOP MOTION FOR SPINNING FRAMES. CHARLES E. PEARCE, Cooleemee, N. C., assignor of one-eighth to John S. Strowd, one-fourth to Charles W. Alexander, and one-fourth to James W. Zachary, Cooleemee, N. C. Filed Feb. 9, 1922. Serial No. 535,235. 15 Claims. (Cl. 118—5.)



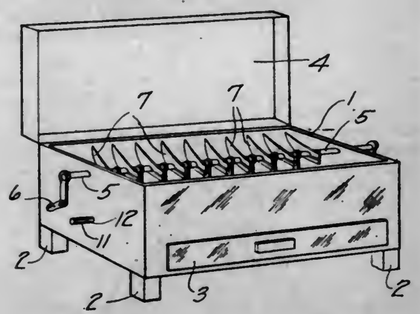
7. In combination with a spinning-frame, a tripping means operated by the builder mechanism, and a stopping mechanism put into action by said tripping means, said stopping means embodying devices which complete the stopping operation through the same source of power which operates the spinning-frame, said stopping mechanism embodying a continuously-running driving pinion, a mutilated driven gear, and a weight attached to said gear and normally supported by a part of the tripping means and adapted when released by the tripping means to actuate the mutilated gear into mesh with said pinion, for the purpose set forth.

1,455,172. FOIL-EMBOSSING MACHINE. JOSEPH PAUDHOMME, Portland, Oreg. Filed May 23, 1922. Serial No. 563,169. 5 Claims. (Cl. 101—23.)



1. The combination of a cylindrical electrotype driven in unison with a printing press with an adjustable roller adapted to press foil against said electrotype and to be frictionally driven by said electrotype.

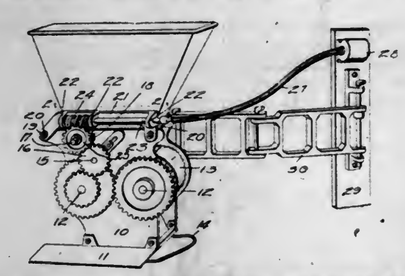
1,455,173. CHOPPING AND SLICING MACHINE. LEE W. SCARBOROUGH, Humble, Tex. Filed May 28, 1921. Serial No. 473,534. 1 Claim. (Cl. 146—11.)



A chopping and slicing machine comprising a suitable case; a knife shaft journaled medially through the case; a plurality of curved cutting knives on the knife shaft, aligned and spaced equally apart; a food holding rack vertically mounted below the knives, same including a rack rod mounted parallel to and below the knife shaft and a plurality of curved rack guards extended between the rack rod and the knife shaft, one guard between each pair of adjacent knives; and means for rotating the knife shaft.

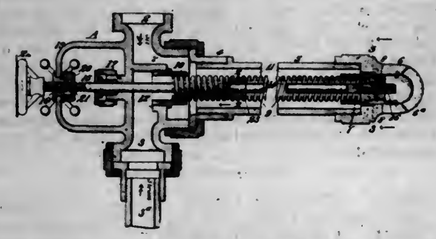
1,455,174. DOUGHNUT-MACHINE ATTACHMENT. AUGUST SCHOEL, Waterloo, Iowa, assignor to George Schoel, Waterloo, Iowa. Filed Jan. 16, 1922. Serial No. 529,535. 1 Claim. (Cl. 107—14.)

In a device of the class described, a support, an arm pivoted for swinging movement mounted on said supports, a doughnut cutting and forming machine frame having shafts journalled therein supported on said arm, gearings for operatively connecting the shafts together for driving them, an auxiliary frame having a pair of downwardly extending ears, said ears being provided with openings for mounting it on the frame of the doughnut machine, bearing members projected at right angles to the main



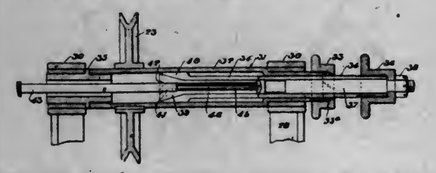
body portion of said auxiliary frame, a longitudinal shaft journalled in said bearing members, a worm wheel on one of said first shafts, a worm on said longitudinal shaft in mesh with said worm wheel, a motor on said support and a flexible shaft for operatively connecting the longitudinal with the motor for driving the last shaft.

1,455,175. BURNER. CARLYLE J. SHERWOOD, San Francisco, Calif., assignor to Coen Co., San Francisco, Calif., a Corporation of California. Filed Sept. 10, 1919. Serial No. 322,938. 13 Claims. (Cl. 236—8.)



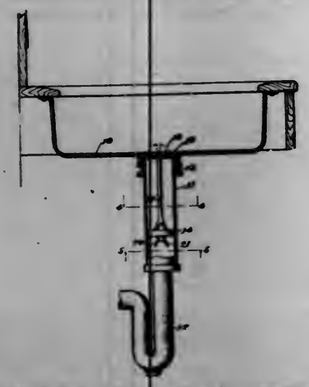
13. In a device of the character described, a casing, a corrugated tube within said casing, means for securing one end of the tube, means for delivering a liquid under pressure to the interior of the tube, and means for delivering a separate liquid under pressure to the casing, and a valve member secured to the end of the tube operable for simultaneously decreasing or increasing the flow of a liquid from the tube and casing.

1,455,176. VALVE-GRINDING MACHINE. JOHN P. SIMMONS, San Francisco, Calif. Filed June 29, 1921. Serial No. 481,236. 5 Claims. (Cl. 279—52.)



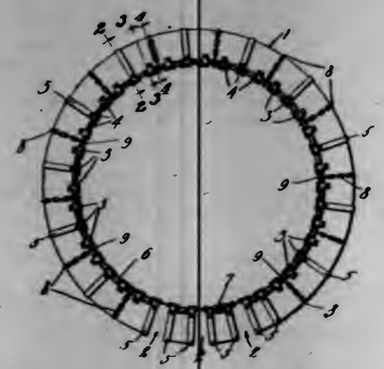
1. In a valve grinding machine a head stock having a tubular rotating mandril, a chuck structure incorporated within said mandril for receiving the end of a valve stem, means for adjusting the chuck relatively to the mandril to accommodate valve stems of varying lengths, and means for clamping the chuck onto the stem to thereafter be rotated by the mandril.

1,455,177. SEWER FLUSHER. ARCHIBALD STAFFORD, Sacramento, Calif. Filed May 10, 1922. Serial No. 559,746. 2 Claims. (Cl. 4—8.)



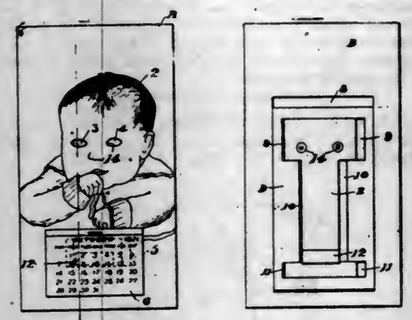
1. In combination with a sink and a sewer pipe connection therefor, of a cylinder connected at its ends to the drain opening of the sink and said pipe and interposed between the same, an expansible split ring slidably disposed in said cylinder, a plunger rod extending longitudinally within said cylinder the lower end of said rod being forked and connected to said ring in a manner to permit expansion thereof, a strainer member comprising two complementary perforated parts hingedly connected at their meeting edges to the upper end of the plunger rod whereby they may serve as a strainer for the drain opening of the sink or as a handle for said rod, a pair of hinged semi-circular flap valves carried by said ring at the under side thereof, said valves being closable upwardly when the ring is forced down and stop members carried by the ring to retain the valves at an inclination when open to insure closing by pressure when the ring is forced down.

1,455,178. ANTISKID CHAIN. WILLARD B. TERRY, Salt Lake City, Utah. Filed May 11, 1921. Serial No. 468,641. 1 Claim. (Cl. 152—16.)



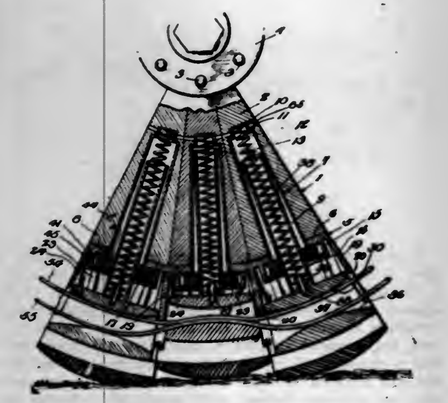
In a device of the class described, a body; retainers extended around the longitudinal edges of the body to form loops; reinforcing strips extended transversely of the body and overlapped on certain of the retainers; securing elements connecting the retainers with the body, certain of the securing elements engaging the reinforcing strips; and circumferential members passing through the retainers.

1,455,179. ADVERTISING DEVICE. ALBERT F. WARD, San Francisco, Calif. Filed Nov. 2, 1921. Serial No. 512,305. 7 Claims. (Cl. 40—138.)



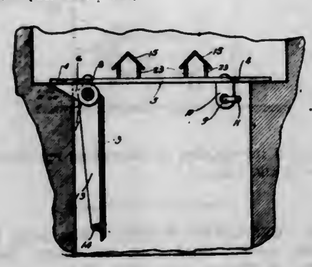
1. An advertising device of the character described comprising a front plate, an intermediate plate, a rear plate, the intermediate plate having a cut out portion forming a recess between the front and rear plates, a picture on the front plate, the front plate having openings therein registering with certain facial portions of said picture, a plate in the recess of the intermediate plate having portions of the picture printed thereon to register with the openings in the front plate, and means movable in a direction transversely of and longitudinally of the front plate and having connection with the plate in the recess of the intermediate plate whereby to impart movements in different directions to the plate in the recess.

1,455,180. RESILIENT WHEEL. SOTORIOUS D. WARNER, Kokomo, Ind. Filed May 20, 1920. Serial No. 382,735. 18 Claims. (Cl. 152—31.)



1. In a wheel of the class described, a rim having side walls, a circumferential series of radially movable cushioning members having body portions working between the side walls, the said members being free from intervening connections with one another and having circumferential play, the said walls being provided with guiding means each defining an approximately U-shaped path, and means upon the said body portions of the cushioning members coacting with the guiding means.

1,455,181. FURNACE GAS PRODUCER. CLIFFORD E. WENTZEL, Dayton, Ohio, assignor to International Clay Machinery Company, Dayton, Ohio, a Corporation of Maine. Filed Apr. 22, 1920. Serial No. 375,714. 27 Claims. (Cl. 110—31.)



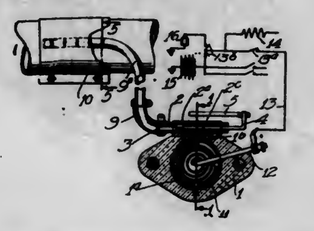
7. The combination with a furnace comprising a combustion chamber and an ash pit, of a bed plate interposed between said ash pit and said combustion chamber and having an opening therein, a structure movable into and out of a position to close said opening and adapted to support fuel and ashes in said combustion chamber, and a tuyere supported by said bed plate, extending across said opening and having outlets arranged to discharge into the fuel and ashes on said movable structure.

1,455,182. SHEET-METAL CAN. FREDERICK WESTERBECK, St. Louis, Mo. Filed Dec. 12, 1921. Serial No. 521,644. 6 Claims. (Cl. 220—24.)



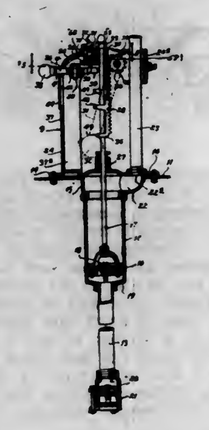
1. A sheet metal can having an internal annular closure seat on the inner face of its upper edge, and a closure embracing said upper edge, said closure having an annular sealing web engaging said internal annular seat to form a seal inside of the can, said closure also having a marginal flange provided with a downturned portion engaging the outer side face of the can and an outwardly extending portion located above the upper edge of the can to receive a closure-removing tool.

1,455,183. FUEL-PREPARING APPARATUS FOR GAS ENGINES. FRANK G. WRIGHT, San Diego, Calif. Filed Aug. 3, 1920. Serial No. 400,941. 5 Claims. (Cl. 219—38.)



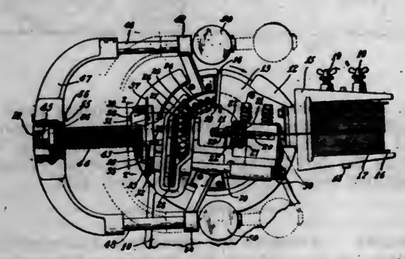
1. A fuel preparing apparatus for gas engines, including a gasket like member interposed between the carbureter and intake manifold of a gas engine provided with a plurality of air inlet ports, a valve communicating with said air inlet ports and means connecting said valve with the spark lever of the vehicle whereby said valve will remain closed while the spark is retarded for starting purposes and is opened with certain advanced movement of the spark lever.

1,455,184. LIQUID MEASURING AND DISPENSING APPARATUS. ANDREW D. WYCKOFF, Maywood, Ill., and HOWARD P. DE CORRSVONT, Chicago, Ill., assignors to Oil Products Appliance Co., Maywood, Ill., a Corporation of Illinois. Filed Jan. 5, 1921. Serial No. 435,127. 8 Claims. (Cl. 221—103.)



1. A liquid measuring and dispensing appparatus comprising a measuring cylinder having an inlet opening and a discharge opening, a plunger reciprocating in said cylinder, a plunger stem for said plunger, a bearing bracket for the upper end of said stem, a rack bar secured to said stem above said bearing bracket, and having disposed along its length, a plurality of spaced, unaligned stop shoulders, means for operating said rack bar, and oscillatory setting mechanism capable of being interposed in the path of movement of any of said stop shoulders to determine the length of stroke of said plunger, whereby various predetermined quantities of liquid may be discharged from said cylinder.

1,455,185. WINDER-BALANCING MECHANISM. HARVEY L. YOUNG, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1921. Serial No. 493,257. 14 Claims. (Cl. 117—5.)



1. In a winding mechanism, the combination of a winder-ring, a reel mounted thereon, work-driving means carried by said winder-ring and adapted to be driven

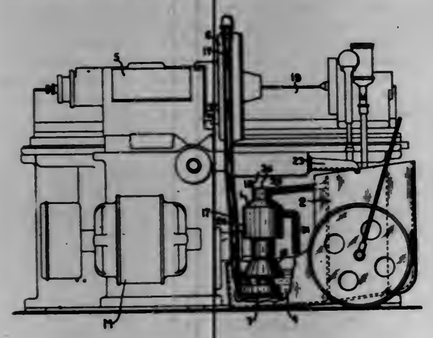
during the revolution thereof for withdrawing material from said reel, a weight mounted on said winder-ring and adapted to be moved thereon to compensate loss of material from said reel, and means timed with said work-driving means for so moving said weight.

1,455,186. FURNACE FOR LIQUID FUEL. ERICH BECKER, Bad Sooden, Germany. Filed Dec. 20, 1921. Serial No. 523,793. 3 Claims. (Cl. 158—91.)



1. An improved furnace for liquid fuel in which the gasifying gutter is surrounded at all sides by air for combustion comprising in combination with the annular gasifying gutter, supports for the inner circumference of said gutter, a dome-shaped cover of said gasifying gutter, a ring-shaped grate upon said supports serving as passage for part of the air for combustion, feet of said gasifying gutter and a wall of refractory material upon the upper edge of which said gasifying gutter is mounted by means of its feet so that a gap is formed between the lower surface of said gutter and the upper edge of said wall said gap serving as passage for the remainder of the air for combustion this air being thus subdivided into two separate currents.

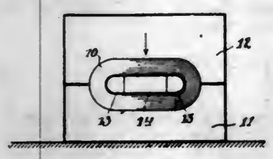
1,455,187. GRINDING-FLUID-CIRCULATING SYSTEM. GREGORY BROWN, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,554. 5 Claims. (Cl. 51—267.)



1. In a grindisg machine having a grinding wheel, a circulating system for continuously supplying grinding fluid to the wheel, comprising conduits and means for forcing the fluid through the conduits and centrifugally separating solid particles from the used fluid.

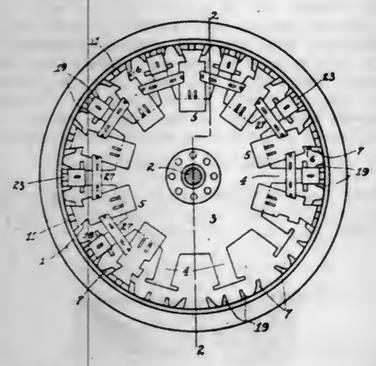
1,455,188. METHOD OF FORMING FLAT COILS. HENRY G. COX, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 23, 1919. Serial No. 306,033. 11 Claims. (Cl. 175—21.)

11. A process of forming magneto coils which includes the steps of winding the coil in cylindrical form, pressing the coil into flattened form by external and internal



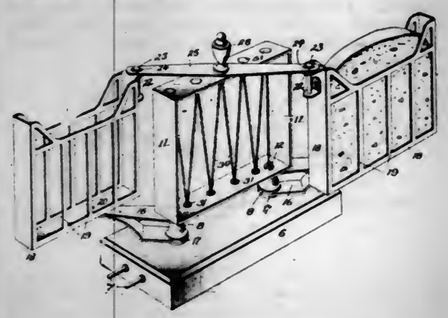
pressure, and introducing an insulating material between the loops of the coil.

1,455,189. RESILIENT WHEEL. BENJAMIN F. CRUM, Oakland, Calif. Filed Aug. 22, 1922. Serial No. 583,508. 3 Claims. (Cl. 152—28.)



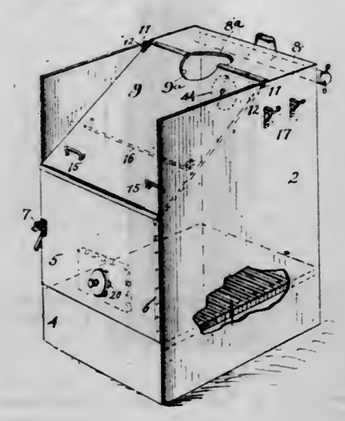
2. A resilient wheel comprising a rim, a load carrying plate adapted to be secured to the automobile axle, radial fingers on said plate, main radial spring holders straddling said plate between said fingers, said spring holders having a central bore formed therein, and a spring positioned in said bore between said rim and said plate.

1,455,190. TOASTER. WILLIAM W. DODGE, Jr., Meriden, Conn. Filed Apr. 22, 1922. Serial No. 555,996. 4 Claims. (Cl. 53—5.)



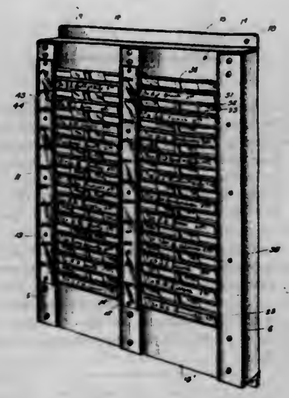
1. The combination of a heating element having opposite effective faces; a bread carrier; and supporting and guiding means serving to present said carrier to the opposite faces of said heating element by translatory movement.

1,455,191. CABINET. FRANK C. DORMENT, Cleveland, Ohio, assignor, by direct and mesne assignments, to The Mineral Bath Cabinet Company, a Corporation of Ohio. Filed May 2, 1921. Serial No. 465,961. 6 Claims. (Cl. 4—13.)



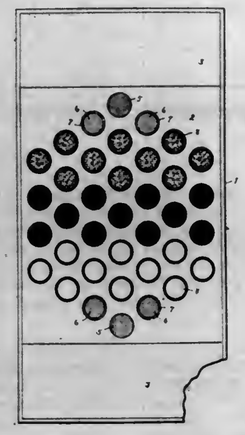
1. A cabinet, having side walls, a top extending transversely between the side members but narrower than the width of the side walls, a front wall extending between the side members but of less height than the side walls, a cover member which extends diagonally between the front wall and the top, said cover having side extending members at one end thereof which overlie the top of each of the side walls, said cover member being movable to a substantially vertical position the side extending members of the cover moving in contact with the tops of the side walls.

1,455,192. INDICIA-CARRYING RACK. JOSEPH R. DUMONT, Kansas City, Mo. Filed June 26, 1922. Serial No. 571,005. 7 Claims. (Cl. 129—16.)



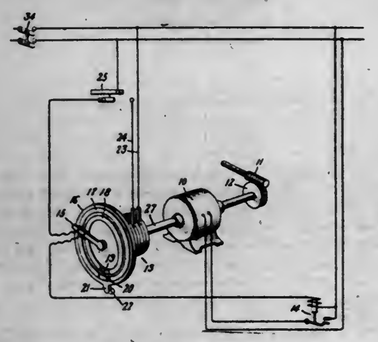
5. A rack comprising a frame, signal and card pockets in said frame, the card pockets alternating with the signal pockets and the successive pockets interengaging whereby each pocket except the first is supported by the pocket above it.

1,455,193. GAME. DUNCAN J. DUQUETTE, Duluth, Minn. Filed Apr. 3, 1922. Serial No. 549,324. 2 Claims. (Cl. 46—64.)



2. A game of the character described comprising a board having spaced checks or spots thereupon on which to play, said spots from the center of opposite ends of the board being spaced obliquely therefrom, the nearest one only of said spots to either end of the board being used as a goal, two groups of checkers of different colors to be used on the board by opponents in play and checkers of different colors representing individual values in each group, substantially as described.

1,455,194. MOTOR CONTROL. JOHN EATON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1921. Serial No. 452,520. 4 Claims. (Cl. 172—239.)



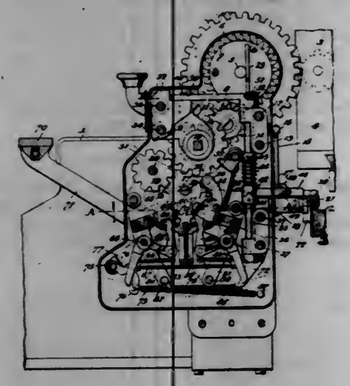
1. A controller for electric motors comprising two relatively movable contact members, the first of which is adjustable with reference to the second and the second of which is biased to one position and is normally connected to the motor to be moved thereby against its bias to a position at which the circuit through the members is interrupted, a normally deenergized electromagnetically controlled coupling connecting the motor and the second member which when energized releases the said member and permits the same to return to its biased position, and connections controlled by the said members for controlling the energization of the said motor.

1,455,195. CORE HOLDER OR SUPPORT. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Apr. 13, 1920. Serial No. 373,572. 2 Claims. (Cl. 242—68.)



1. A core holder comprising a pair of axially apertured discs, a series of spaced resilient rods terminally secured to the discs within the peripheries thereof and bowed outwardly beyond the plane of said peripheries, whereby a core of an internal diameter corresponding approximately to the diameter of the discs will be engaged by both the disks and rods when forced upon the holder.

1,455,196. CROSS-FOOTER REGISTER FOR WRITING ADDING MACHINES. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Dec. 31, 1920. Serial No. 434,254. 11 Claims. (Cl. 235—59.)

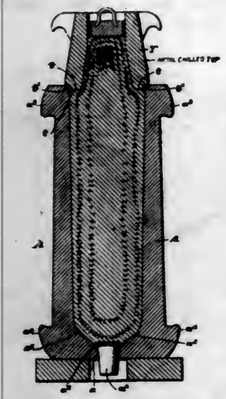


4. In a register of the class described, the combination with a series of number wheels and carrying mechanism, of a master wheel movable across the series of number wheels, a master wheel carriage, a master wheel advancing mechanism including a shaft having two arms, one engaging the master wheel carriage and a relatively fixed part arranged to be engaged by the other arm, and a yielding safety connection between one of said arms and the shaft.

8. In a register of the class described, the combination with a series of number wheels, a series of trips and two series of carrying devices, the opposite carrying devices having tailpieces connected by motor springs, of restoring mechanism including a pair of restoring bars, a system of links having a toggle action for restoring the carrying devices, a restoring frame arranged to operate the toggle, and retracting springs for the restoring frame.

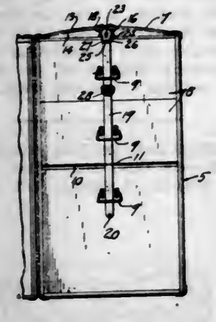
1,455,197. INGOT MOLD AND INGOT. EMIL GATHMANN, Baltimore, Md. Filed July 15, 1922. Serial No. 575,312. 16 Claims. (Cl. 22—213.)

1. An ingot mold having a metallic heat absorbing top portion adapted to form the upper part of the ingot and to be removable from the main body of the mold



and constructed to chill and thus quickly freeze the upper part of the ingot.

1,455,198. DRAWER-LOCKING DEVICE FOR TRUNKS. JOSEPH P. GIBSON, Spring Valley, Ill. Filed July 19, 1922. Serial No. 576,070. 1 Claim. (Cl. 45—94.)

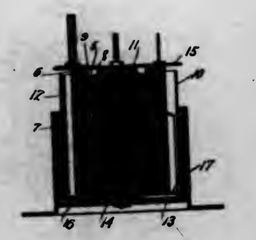


In combination with a truss for bulging the end wall of a wardrobe trunk section, said truss having its upper face longitudinally curved and having a socket in the outer side face thereof, said outer face being disposed flush with the outer walls of the drawers of said trunk section, a socket lock keeper disposed in the recess of the truss, and having ears engaged with and secured to the outer face of the truss, inwardly of the longitudinal edges of said truss, and a holding bar arranged to engage the drawers, a trunk lock secured to one end of the bar and extending beyond said end, the body portion of said lock being disposed parallel to the outer face of the truss and the outer walls of the drawers, the locking mechanism of said lock being adapted to enter the socket lock keeper.

1,455,199. COIL AND CONDENSER TREATMENT. FRANK J. GROTEN, Jr., Meriden, Conn., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn., a Corporation of Connecticut. Filed Feb. 26, 1920. Serial No. 361,392. 8 Claims. (Cl. 91—70.)

1. The improvement in the art of preparing electrical elements such as coils and condensers which comprises

heating the element to approximately 60° C. and then impregnating it with a compound of synthetic resin and

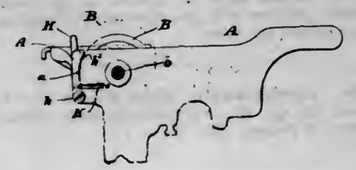


oil at a temperature of between 125 and 140° C. draining the element and then cooling it.

1,455,200. INSULATING COMPOSITION FOR ELECTRICAL APPARATUS. FRANK J. GROTEN, Jr., Meriden, Conn., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn., a Corporation of Connecticut. Original application filed Feb. 26, 1920, Serial No. 361,392. Divided and this application filed Nov. 12, 1920. Serial No. 423,649. 7 Claims. (Cl. 106—15.)

1. An impregnating composition having a melting point of approximately 60° C. comprising a synthetic resin formed from the neutral polymers of para-coumarone, paraindene and other hydrocarbons obtained from a coal tar distillate and mixed with an oil.

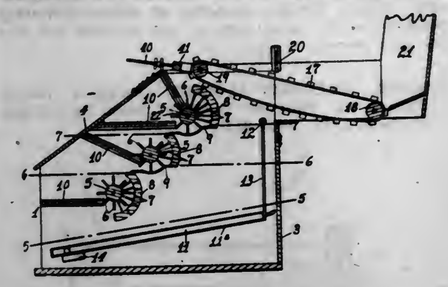
1,455,201. TYPEWRITING MACHINE. EDWARD B. HESS, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed June 14, 1922. Serial No. 568,171. 11 Claims. (Cl. 197—144.)



1. In a typewriting machine, the combination with a main or cylindrical platen, of an auxiliary platen in the form of a strip of relatively hard material curved to correspond to the curvature of the main platen and mounted in supports having guiding portions curved correspondingly with the curvature of the platen and which guiding portions are arranged wholly in front of the main platen.

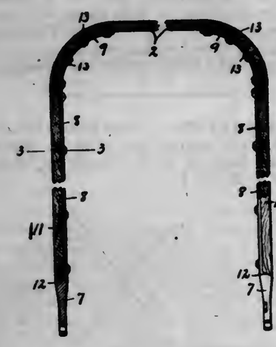
1,455,202. PEA-HULLING MACHINE. ARNOLD HEUCKENDORFF, Oakland, Calif. Filed May 24, 1920. Serial No. 383,745. 6 Claims. (Cl. 130—30.)

6. In a pea sheller, a plurality of rotating drums having their axes in a sloping plane, fingers on the drum, stationary fingers between which the drum fingers pass, a stationary screen under each of the drums through which the peas are forced by the drum fingers and a shaking



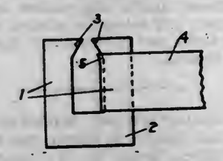
sieve extending under all of the fingers and adapted to receive both the peas and the hulls.

1,455,203. AUTOMOBILE TOP. ROBROY C. HOAGLAND, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Feb. 18, 1919. Serial No. 277,782. 2 Claims. (Cl. 296—118.)



1. In a socketless vehicle top, a pair of oppositely disposed slat irons having curved upper ends extending towards each other, a wooden frame member formed of high grade finished material extending from a point adjacent the lower end of the respective slat irons to a point above the lower edge of the top quarter of the top, and a bow bridging the slat irons and having its opposite end connected to the upper curved ends of said slat irons respectively, and its end portions in substantial contact with the upper end portions of the wooden frame members respectively.

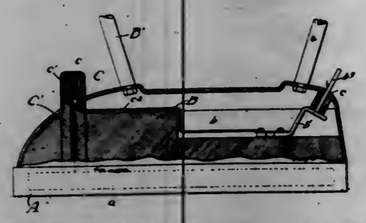
1,455,204. BALE-TIE BUCKLE. ROBERT L. HORSLEY, Memphis, Tenn. Filed Oct. 4, 1922. Serial No. 592,321. 1 Claim. (Cl. 24—23.)



A bale tie buckle comprising band engaging members and a supporting side bar, said band engaging members leading to an open side and provided with retentive de-

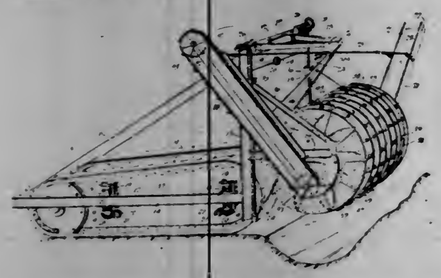
vices near their free ends to prevent lateral displacement of the applied loops of a bale tie band upon the buckle, said retentive devices consisting of oblique outleaning inclines upon the inner edges of said members and near the ends thereof.

1,455,205. ELECTRIC SADIRON. RALPH J. HOVEY, Chicago, Ill. Filed Jan. 19, 1921. Serial No. 438,348. 1 Claim. (Cl. 177—311.)



A sad iron having a heating coil arranged in the body thereof with suitable terminals for electrical connection projecting therefrom, a casing fitting over the body of the iron, an insulating sleeve supported in the forward point of the iron and projecting through an opening in the casing in front of the handle of the iron, a tubular transparent member supported on said sleeve, a display coil in said transparent member, said coil having suitable electrical connections with a heating coil in the iron to carry an electric current, substantially as described.

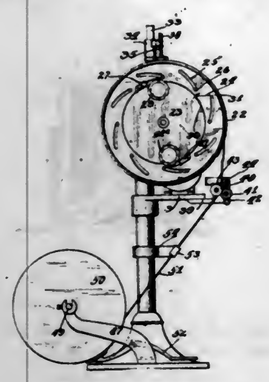
1,455,206. EXCAVATING MACHINE. WILLIAM GARFIELD HOWE, Des Moines, and FRED R. WHITE, Ames, Iowa. Filed July 16, 1920. Serial No. 396,737. 13 Claims. (Cl. 37—97.)



1. A frame mounted on traction means, a rotary excavator device adjustably mounted at one end of said frame, said excavator device comprising rotary digging members and a central drum, said digging members being adapted to cut dirt and raise it for discharging it into said drum, a conveyor for delivering dirt from said drum, a sloper device at one end of said excavator comprising an endless member mounted for travel, cutting devices on said endless member, means for supporting said endless member at different angles with relation to the main body of said excavator, and means for picking up dirt loosened by the sloper device and discharging it into said drum on the conveyor therein.

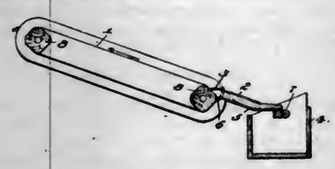
1,455,207. BEAD-FORMING MACHINE. RALPH W. HUTCHENS and SAMSON H. SMITH, Eau Claire, Wis., assignors to Gillette Rubber Co., a Corporation of Maine. Filed Sept. 8, 1919. Serial No. 322,510. 4 Claims. (Cl. 242—54.)

1. A bead forming machine of the class described comprising a power drive, an expansible wheel driven thereby, means supplying wire to said wheel, coacting forming rolls leading wire to said wheel one of said rolls having a concave edge and the other a convex one, the



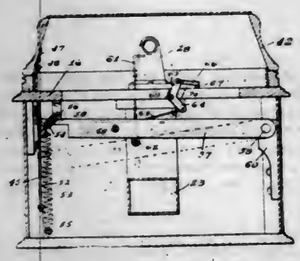
edges being adapted to compress a ribbon of braided wire between them, and means varying the diameter of the wheel according to the diameter of the bead to be formed.

1,455,208. PEA CLEANER. ANDREW JACOBSEN, Green Bay, Wis., assignor to William Larsen, Green Bay, Wis. Filed Nov. 29, 1921. Serial No. 518,522. 3 Claims. (Cl. 130—15.)



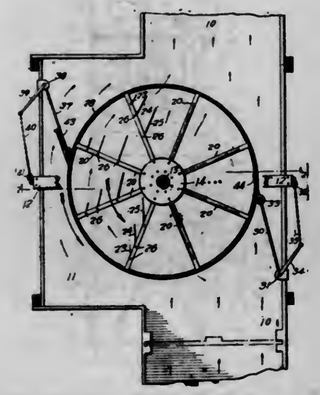
1. The combination with a container having an open top, of a screen extended over a portion of the open top of the container and swingingly connected to the ends thereof, an inclined conveyor adjacent to the container, and means operative with the conveyor for tripping the screen to agitate the same.

1,455,209. PHONOGRAPH. ISAAK KARISH and JAMES KERNES, Chicago, Ill. Filed Sept. 3, 1920. Serial No. 408,015. 4 Claims. (Cl. 274—1.)



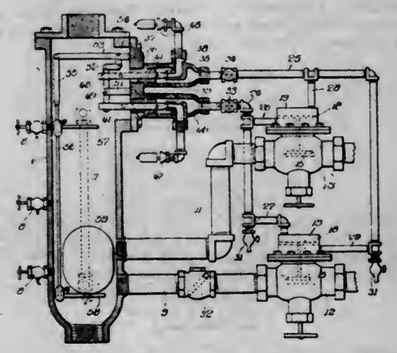
1. In a phonograph cabinet, the combination of a motor, a turn table driven thereby, a jointed tone arm, a hinged cover, means for lifting said cover including a spring actuated bell crank lever, and means acting upon the upward movement of the cover to lift the tone arm and stop the rotation of the turn-table, said means including a transversely extending arm cooperating with said bell-crank lever.

1,455,210. DRIFT AND FISH RETARDER. DANIEL W. KELLER, Hartshorne, Okla. Filed Oct. 12, 1921. Serial No. 507,286. 5 Claims. (Cl. 210—173.)



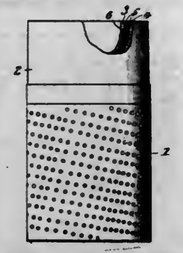
1. The combination with an inflow conduit of an offset communicating therewith, a retarding wheel journaled partly in the conduit and partly in the offset, means inherent in the wheel for converting the flow of water into rotary motion, and gates extending outwardly from the sides of the conduit and offset and yieldingly engaging the periphery of the wheel.

1,455,211. BOILER-WATER-LEVEL CONTROLLER. JOHN F. KELLY, Chicago, Ill., assignor, by mesne assignments, to Kelly Valve Company, Muskegon, Mich., a Corporation of Michigan. Filed Feb. 21, 1920. Serial No. 360,532. 10 Claims. (Cl. 137—101.)



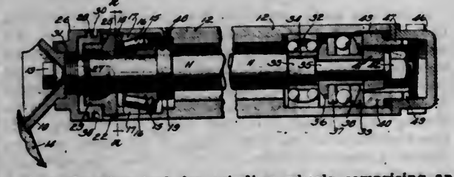
1. In a boiler water level controller, the combination of a casing, a float therein, a water supply pipe, a water delivery pipe, valves in said pipes, steam actuated means for operating said valves, manually operable means for actuating said valves independently of said steam actuated means, valves for controlling the supply of steam to said steam actuated means, and an operative connection between said float and each of said last mentioned valves.

1,455,212. WICK FOR OIL STOVES. CHARLES KING, Chaffee, Mo. Filed July 21, 1921. Serial No. 486,437. 2 Claims. (Cl. 67—68.)



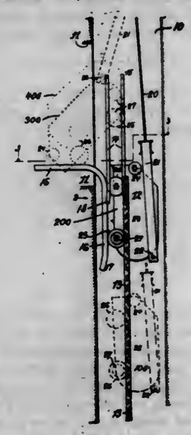
1. A wick of the class described comprising two layers of asbestos having their inner opposed faces coated with putty and a layer of cotton interposed therebetween.

1,455,213. DRESSING TOOL FOR GRINDING WHEELS. THUAN LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 6, 1918. Serial No. 252,961. 7 Claims. (Cl. 125—37.)



1. A dressing tool for grinding wheels comprising an open ended housing, a rotatable shaft mounted therein and having one end projecting therefrom, a cutting disk on the projecting end, means to exclude dust from the inside of the housing, adjustable radial bearings within the housing adjacent said projecting end of the shaft, radial bearings for the opposite end of the shaft, adjustable bearings for receiving end thrust only, and means for positively adjusting each set of said adjustable bearings independently of the other set to take up radial and longitudinal wear.

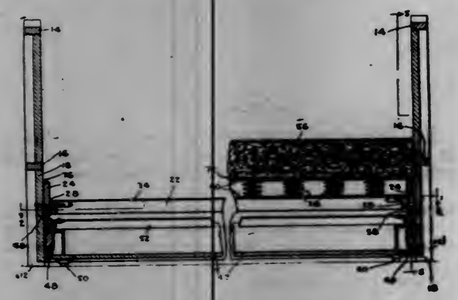
1,455,214. HOISTING APPARATUS. GEORGE G. LENDI, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,666. 6 Claims. (Cl. 214—120.)



1. The combination of a main guide, a carrier, rollers on said carrier adapted to engage the said main guide on

opposite sides thereof, lifting means for said carrier and means for pivoting the carrier in said lifting means to cause the said rollers to automatically engage the said main guide on the opposite sides thereof.

1,455,215. DAY-BED LOUNGE. JACOB H. LEVIN, Minneapolis, Minn. Filed July 30, 1921. Serial No. 488,562. 1 Claim. (Cl. 5—18.)



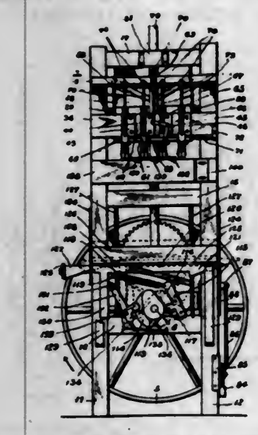
A day-bed lounge comprising a main structure having two end members, two strips lying inside of said end members, two strips lying inside of said first mentioned strips and partly below the same with the upper edges of said second mentioned strips overlappnig the lower edges of said first mentioned strips, front and rear rails connecting said second mentioned strips and having their upper surfaces in the same plane as the upper surfaces thereof, pieces of webbing stretched between the upper surfaces of said rails, intersecting pieces of webbing stretched between the upper surfaces of said second mentioned strips, a coiled spring cushion resting upon said pieces of webbing with its upper surface in the same plane as the upper surfaces of said first mentioned strips, a boxlike structure adapted to be moved in and out under said spring cushion, a mattress support at the top of said boxlike structure, a mattress adapted to be positioned on said mattress support when said boxlike structure is moved out and to be placed on said spring cushion member to form an upper cushion when said boxlike structure is retracted, a flap extension from one side of said mattress, and means for detachably securing the ends of said flap extension to the upper surfaces of said first mentioned strips whereby said flap extension will form a continuation of the upper surface of said mattress when the latter is on said mattress support and will be underneath said mattress when the latter is placed on said spring cushion member.

1,455,216. ASH-PAN LIFTER. MICHAEL LOMBARDI, Louisville, Colo. Filed May 20, 1922. Serial No. 562,309. 3 Claims. (Cl. 294—31.)



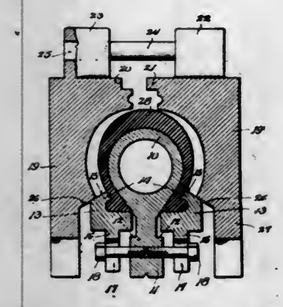
1. A pan lifter, comprising in combination, a handle member having one end bent at an angle thereto to provide a clamping jaw, a hole in said member near the bend therein, a second handle member having one end of diminished cross section and adapted to project through said opening, said end being curved upwardly and the terminal portion thereof bent downwardly so as to be substantially parallel with the jaw of said first mentioned handle member when the lifter is in operative position, and a pair of shoulders at the juncture of said last mentioned handle member and the portion of diminished cross section, said shoulders engaging the under surface of said first mentioned handle member and serving as a fulcrum.

1,455,217. BOX-NAILING MACHINE. LUKE MARSHALL, Seattle, Wash. Filed Apr. 18, 1922. Serial No. 555,087. 2 Claims. (Cl. 1—15.)



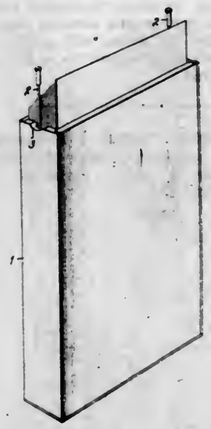
2. A table for a box nailing machine comprising a shelf, guide rods secured to the frame of the box nailing machine, lugs adapted to loosely ride on said guide rods, and secured to said shelf, supporting brackets on said shelf, plates on said frame having apertures therein, a wedge bar arranged to operatively support said shelf, wedges on said wedge bar adapted to slidably seat within said apertures, an arm on said wedge bar, a pin lever pivotally mounted on said machine, a pin on said lever, means for retaining said pin in contact with said arm, a spring secured to said wedge bar, a spring lever pivotally mounted on said machine and secured to said spring, a roller on said spring lever, and a double cam operatively mounted on said frame adapted to alternatively actuate said spring and pin levers to reciprocally cause said wedge bar to raise and lower said shelf.

1,455,218. TIRE MOLD. ROBERT MITCHELL MERRIMAN, Akron, Ohio. Filed Apr. 18, 1922. Serial No. 555,189. 10 Claims. (Cl. 18—38.)



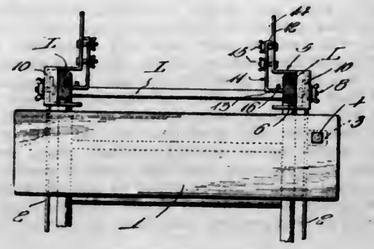
6. A tire mold including a core, contractible sectional means to engage the inner edges of a tire upon the core, side plates adapted to coact with said means for stretching the tire, and means connecting the sections of the first means with the core operating to guide the first means when contracted and locking the sections thereof against individual endwise movement.

1,455,219. CABINET. PHILIP MORINA, Washington, D. C. Filed Aug. 8, 1921. Serial No. 490,543. 2 Claims. (Cl. 211—16.)



1. A cabinet including a compartment grooved longitudinally of its inner side wall and notched at the outer terminals of the grooves, a drawer slidable within the compartment, pull rods movable in the grooves of the compartment and connected to the drawer for moving the latter inwardly or outwardly of the compartment, the outer end of the pull rod being adapted to locate at the notched terminals of the grooves when the drawer is at its innermost position within the compartment.

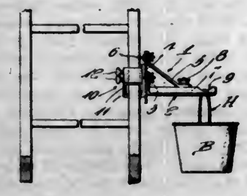
1,455,220. PLATFORM FOR LADDERS. MARTIN R. MYERS, Grand Rapids, Mich. Filed Nov. 3, 1921. Serial No. 512,557. 9 Claims. (Cl. 304—34.)



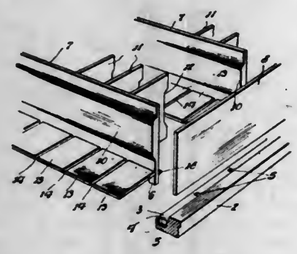
1. The combination with a ladder, of a pair of brackets adjustably connected with the stiles thereof and extending forwardly therefrom to provide supporting arms, and a platform supported on and pivotally connected with one of the arms of said brackets.

1,455,221. BUCKET SUPPORT. MARTIN R. MYERS, Grand Rapids, Mich. Filed Nov. 3, 1921. Serial No. 512,558. 2 Claims. (Cl. 248—20.)

1. An attachment for ladders comprising a bracket including a horizontally disposed arm, said arm being equipped with a notch forming a seat for reception of a handle of a bucket or the like, the arm being also formed with an opening for passage of a bolt for fastening an article holder or the like to the arm, a clamp for adjustable connection with one of the ladder stiles, and a connection between the bracket and clamp, said connection serving to permit the bracket to be reversed for supporting either a bucket or an article holder and serving to retain the bracket in either of its adjusted positions, and also serving to hold the jaws of the clamp in various adjusted positions.

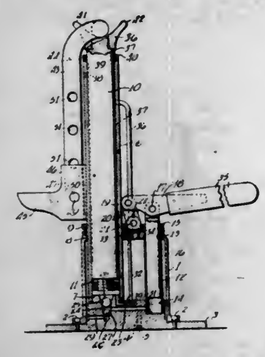


1,455,222. MOLD FOR FORMING BRICKS OR CONCRETE BLOCKS. GEORGE L. OSWALT, Clinton, Ind. Filed Apr. 4, 1922. Serial No. 549,568. 4 Claims. (Cl. 25—121.)



1. A mold for forming blocks comprising a pair of parallel supporting sills, forms comprising partitions disposed transversely between said sills and supported by the same, spaced bottom plates projecting from the front faces of the partitions at the lower edges thereof, division plates projecting from the rear faces of the partitions with their lower ends fitting in the spaces between meeting bottom plates, and side plates and end plates supported by the sills and closing the sides and ends of the spaces defined by the partitions and the division plates.

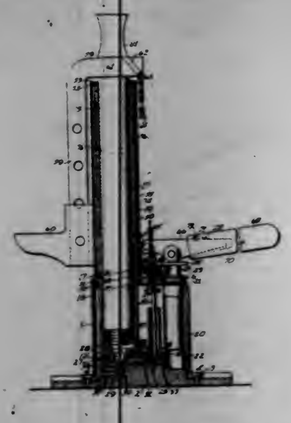
1,455,223. HYDRAULIC JACK. ARTHUR PAOLI, Hancock, Mich. Filed May 31, 1921. Serial No. 473,764. 2 Claims. (Cl. 138—9.)



1. In a device of the character described, a working cylinder closed at one end and provided with an inlet and

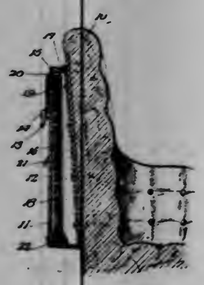
outlet at its closed end, a ram slidable in the cylinder and protruding from the open end of the latter, said ram being arranged at its inner end to engage the cylinder with a liquid-tight fit, means for introducing a liquid into the cylinder through the inlet, means for controlling the passage of the fluid through the outlet, whereby the ram will be moved along the cylinder away from the closed end when the outlet is closed, a by-pass conduit for conducting liquid from the cylinder when the ram has been moved a certain distance, said ram being formed with a longitudinally extending groove in its outer wall extending from a point spaced from its inner end to the end protruding from the cylinder, and means for guiding the ram in its movement in the cylinder to occasion the communication of the groove with the by-pass conduit.

1,455,224. HYDRAULIC JACK. ARTHUR PAOLI, Hancock, Mich. Filed July 20, 1921. Serial No. 486,128. 7 Claims. (Cl. 138—9.)



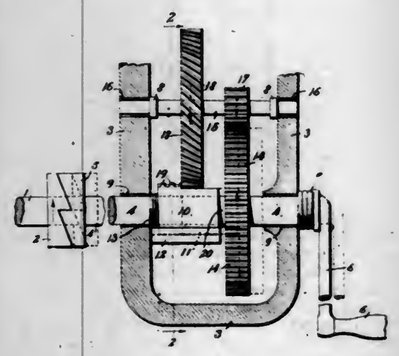
1. A device of the character described comprising a cylinder closed at one end, a movable ram projecting from the other end of the cylinder, a work-engaging member carried by the ram at its outer end, and an auxiliary work-engaging member attached to the first named work-engaging member and movable at will into alinement with the ram or laterally of the latter.

1,455,225. MIRROR ATTACHMENT FOR AUTOMOBILES. JAMES G. ROSS, Seattle, Wash. Filed Sept. 17, 1921. Serial No. 501,278. 1 Claim. (Cl. 296—37.)



In a mirror attachment for motor vehicles, the combination of a casing gradually tapered in depth toward its upper end, a mirror normally disposed within the casing, a yieldable wedge carried by the lower edge of the mirror to engage the bottom wall of the casing for cushioning the mirror when lowered into the casing, and means for elevating the mirror to project from the casing and shifting said wedge to bind between opposing walls of the casing whereby the wedge will gradually limit the mirror in its upward movement as well as steady the mirror when elevated.

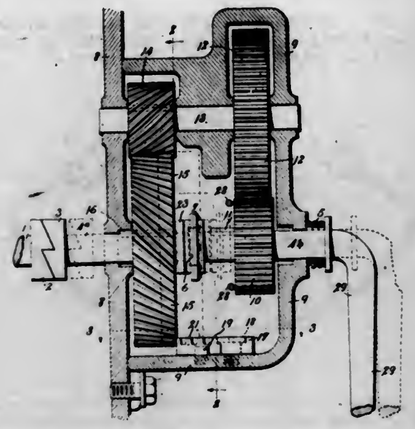
1,455,226. SAFETY CRANK. LAWRENCE RUDOLPH, Louisville, Ky., assignor to Rudy Rudolph, Pensacola, Fla. Filed Aug. 7, 1922. Serial No. 580,367. 6 Claims. (Cl. 123—185.)



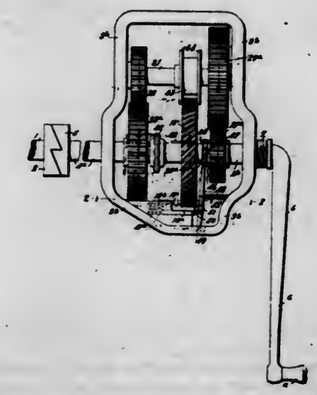
4. In apparatus of the character described, a support, a cranking shaft with clutch element for engaging a similar element on an engine shaft when said cranking shaft is moved into contact therewith, said cranking shaft being rotatably and longitudinally movable in said support, a countershaft journaled in bearings in said support, a gear train between said cranking shaft and said countershaft, a spiral gear on one of said shafts rotatable with it but fixed against movement along said shaft, a sliding block with teeth to mesh with said spiral gear, means holding said block against rotation while permitting it to slide in a direction parallel to the axis of said spiral gear, said block adapted to slide and unmesh from said spiral gear while cranking, means continuously tending to mesh said block with said spiral gear whereby when a "kick back" occurs instant meshing will take place, and provisions whereby, when said slide block is meshed with said spiral gear, it will be pulled by said spiral gear to cause motion to be imparted to said cranking shaft along its axis to disengage the same from the engine shaft.

1,455,227. SAFETY CRANK. LAWRENCE RUDOLPH, Louisville, Ky., assignor to Rudy Rudolph, Pensacola, Fla. Filed Aug. 7, 1922. Serial No. 580,368. 6 Claims. (Cl. 123—185.)

2. In apparatus of the class described, a support having shaft bearings, a two part cranking shaft journaled in said bearings, a clutch element on one of said shaft parts adapted to engage a similar element on the shaft of an engine to be cranked, gearing connecting said two shaft parts and including spiral gears, means normally holding said clutch elements disengaged, a pivoted toothed dog cooperating with one of said spiral gears, the teeth of which dog are adapted, when in alignment with the teeth of the spiral gear, to be meshed therewith, stops limiting the movement of said dog, a spring tending to hold said dog against one of said stops with its teeth out of alignment with those of said spiral gear during the cranking movement of said spiral gear, said spiral gear, when turned reversely to its cranking movement, being adapted to rock said dog to bring the teeth in alignment and effect mesh thereof, and means to be engaged by said spiral gear, when it is moved axially into engagement with said dog for moving said shaft parts to disengage the clutch.

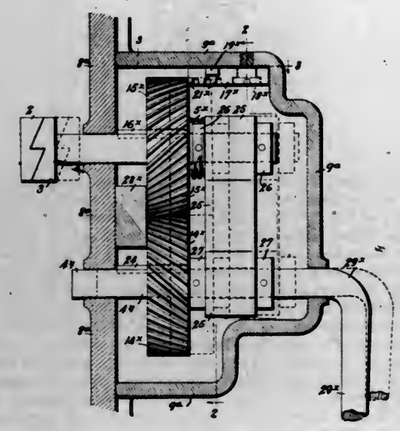


1,455,228. SAFETY CRANK. LAWRENCE RUDOLPH, Louisville, Ky., assignor to Rudy Rudolph, Pensacola, Fla. Original application filed Aug. 7, 1922, Serial No. 580,367. Divided and this application filed Nov. 15, 1922. Serial No. 601,126. 3 Claims. (Cl. 123—185.)



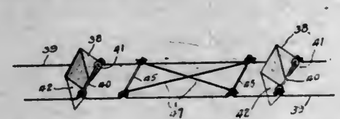
3. In apparatus of the class described, a support, a two part cranking shaft, means coupling said shaft parts together to move endwise in unison but rotate independently, a clutch element on said cranking shaft for engaging a mating clutch element on an engine shaft to be cranked, a gear train between the two parts of said cranking shaft, a spiral gear on one of said cranking shaft parts, a sliding block cooperative with said spiral gear, said spiral gear being slidable on its shaft part, a lever device operated by said sliding block for moving said cranking shaft to disengage the clutch, said sliding block having some lost motion for the purposes described.

1,455,229. SAFETY CRANK. LAWRENCE RUDOLPH, Louisville, Ky., assignor to Rudy Rudolph, Pensacola, Fla. Original application filed Aug. 7, 1922, Serial No. 580,368. Divided and this application filed Nov. 15, 1922. Serial No. 601,127. 2 Claims. (Cl. 123—185.)



1. In apparatus of the class described, a support having shaft bearings, a two part cranking shaft journaled in said bearings, spiral gears connecting said shaft parts, a yoke having bearings in which said shaft parts are journaled, means on said shaft parts cooperating with said yoke and causing said shaft parts to move axially in unison, a stop adapted to be engaged by said spiral gears, when in the cranking position, a throw out spring carried by one of said shaft parts, a clutch element on one of said shaft parts adapted to engage a similar clutch element on the shaft of the engine to be cranked, means for turning the other shaft part to impart cranking motion, a pivoted toothed dog and stops limiting the pivotal movement of said dog, said dog having teeth adapted, when said dog is in one position, to register with the teeth of one of said spiral gears, said dog normally lying in contact with one of said spiral gears and arranged whereby, when the parts are in the cranking position, the teeth of said dog will be out of register with those of said opposing spiral gear and, when said opposing spiral gear is "kicked back," it will rotate said dog to bring its teeth into meshing alignment with the opposing spiral gear for the purposes specified.

1,455,230. BOAT AND APPARATUS FOR THE PROPULSION THEREOF. VICTOR ALFRED SHAW, Brooklyn, N. Y. Filed Jan. 7, 1922. Serial No. 527,680. 11 Claims. (Cl. 170—138.)



1. In propelling apparatus for a boat, two endless flexible supports and a plurality of paddles carried by said supports, each of said paddles being free to rotate about an axis parallel to and spaced from its operative surface.

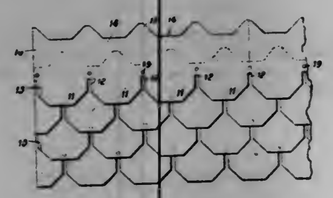
1,455,231. MANUAL SIGNAL FOR VEHICLES. JAMES SPAVENTOF, Brooklyn, N. Y. Filed Sept. 10, 1921. Serial No. 499,759. 5 Claims. (Cl. 177—329.)



1. A signalling device for use on vehicles comprising a ring of insulating material adapted to fit over one of the fingers of the driver's hand and to slip down to the base of the fingers adjacent the palm of the hand, a contact strip embedded in said ring and having a spring contact finger extending to the exterior of the ring and outwardly beyond the back of the hand, said contact finger extending substantially at a tangent to the ring and having its outer free end projecting in the path of an adjacent finger of the operator's hand moving in the direction at right angles to the plane of the palm whereby to press the free end of the contact finger toward the ring, a contact plate carried by the ring in position to be engaged by said contact finger, a lamp bulb carried by the rear portion of said ring in circuit with said contact, said lamp bulb adapted to illuminate the back of the hand and the fingers, and a battery carried at a remote point from the hand and having leads connected to said contact strip and the lamp.

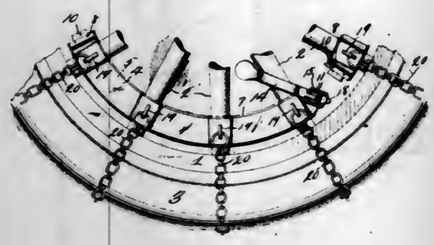
5. A signalling device comprising a ring adapted to be fitted upon a finger of a vehicle driver's signalling hand, a plurality of electric lamps carried thereby having differently colored tip portions and base portions for illuminating the hand, a source of current, and separately closable contacts at opposite lateral portions of the ring for closing circuit through the lamps individually by movement of opposite fingers of the driver's hand.

1,455,232. METHOD OF MAKING SHINGLE STRIPS. ALEXANDER S. SPEER, Buffalo, N. Y., assignor, by mesne assignments, to The Beaver Products Company, Inc., a Corporation of New York. Original application filed Nov. 12, 1919, Serial No. 337,577. Patent No. 1,412,295, dated Apr. 11, 1922. Divided and this application filed July 14, 1920, Serial No. 396,127. Renewed Oct. 9, 1922. Serial No. 593,460. 16 Claims. (Cl. 164—68.)



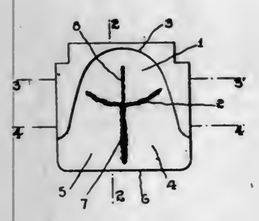
1. The method of producing like multiple shingle strips each having a slotted edge which consists in repeatedly cutting a sheet of the strip material upon broken lines conforming to the outline of the slotted edges of the strips, the said cuts being parallel to each other and separated by distances equal to the width of the strips and between each two consecutive broken line cuts cutting off a portion only of the fingers left projecting from the sheet by the last preceding broken line cut.

1,455,233. ANTISKID CHAIN FOR AUTOMOBILES. JOHN F. STRAUBE, Omaha, Nebr. Filed Mar. 26, 1921. Serial No. 455,881. 1 Claim. (Cl. 152—14.)



An antiskid device for automobile wheels comprising a pair of segmentally shaped plates, spaced recesses carried by said plates in registration with each other and adapted to receive the spokes of an automobile wheel, one end of one of the plates being provided with a right angled portion overlying the adjacent end of the other plate, a plurality of apertures in said right angled portion, a lug carried by the adjacent end of the other segmentally shaped plate and adapted to be received in one of the apertures according to the diameter of the spokes and means cooperating with the other adjacent ends of the segmentally shaped plates for forcing the same towards each other for securely clamping the plates against the opposite sides of the spokes.

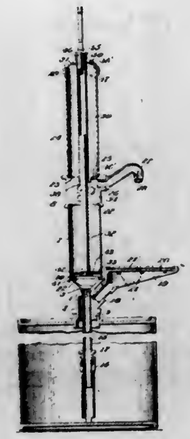
1,455,234. CHAIR SEAT. EARL THOMPSON, New York, N. Y. Filed Mar. 17, 1922. Serial No. 544,407. 2 Claims. (Cl. 155—178.)



1. In a chair seat, a rearwardly disposed depressed saucer adapted to position an occupant at the rear of the seat and having a front marginal edge extending across the seat intermediate the front and rear edges of the chair seat and two shallow channels extending from the front margin of the saucer to the front edge of the chair seat.

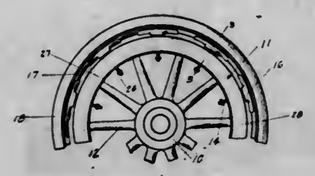
1,455,235. DISPENSING AND DISPLAY PUMP. WILLIAM S. TOWNSEND and FRANK E. DOUGLASS, Rochester, Pa. Filed Aug. 28, 1922. Serial No. 584,809. 8 Claims. (Cl. 221—60.)

1. A liquid dispenser comprising a measuring pump, a glass liquid display container seated at its lower end upon the upper end of the pump casing in vertical alignment therewith and communicating with the pump cylinder above its piston to be filled with liquid by the pump



for display purposes, a securing cap at the upper end of said display container, and means connecting said cap with the upper end of said pump cylinder.

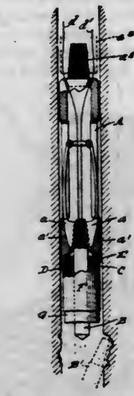
1,455,236. AUTOMOBILE SPRING TIRE. JAMES R. TUCKER and EUGENE M. AYERS, Baltimore, Md. Filed Apr. 22, 1920. Serial No. 375,813. 1 Claim. (Cl. 152—32.)



A spring device for a wheel comprising a socket member having an opening in the bottom thereof, the open end of the socket having attaching flanges, a bolt disposed longitudinally through the socket member and through the bottom opening thereof, the outer end of the bolt having a transverse head which is arcuate longitudinally and transversely and provided with a shoulder surrounding the bolt at its junction with the head, and a coil spring encircling the bolt, within the socket, and bearing against said shoulder and the bottom of the socket.

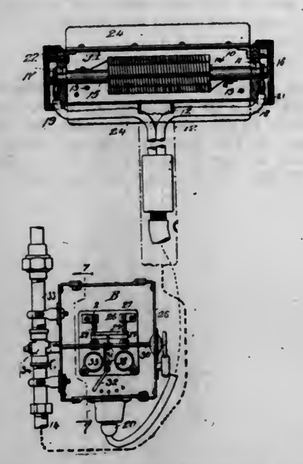
1,455,237. OIL-WELL FISHING TOOL. FREDERICK C. BONNET, Hamburg, N. Y., and RAYMOND FRANKLIN, Durant, Okla. Filed Jan. 3, 1922. Serial No. 526,676. 9 Claims. (Cl. 298—88.)

1. In a device for removing articles from wells, the combination of a slip socket and a hollow magnet secured to the lower end of the slip socket and through which an



article to be removed from a well may pass to the slip socket for engagement therewith.

1,455,238. DRYING APPLIANCE. HERMAN J. BOSCH, New York, N. Y. Filed Dec. 7, 1920. Serial No. 428,848. 7 Claims. (Cl. 34—26.)

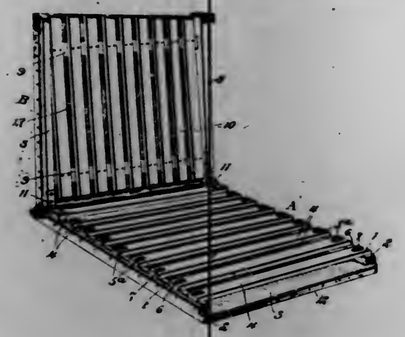


2. In a drying appliance, the combination of means for simultaneously supplying and regulating air and a heating medium, means for directing said air and heating medium to an air heating and distributing appliance remote from the source of air supply, means for heating said air in close proximity to its use, and means for directing and distributing sprays of heated air as described.

1,455,239. PORTABLE VENTILATED SEAT. HENDERSON PIERCE CHILDRESS, Memphis, Tenn. Filed Jan. 14, 1922. Serial No. 529,306. 2 Claims. (Cl. 155—131.)

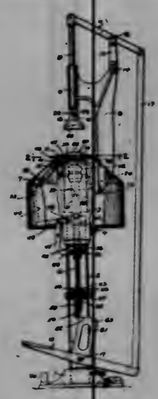
1. A ventilated supplemental seat comprising a seat member and a back member, and means for hingedly connecting the two members to permit one to fold upon the other, the seat member including longitudinal side sills and transverse resilient slats resting upon and connecting the same, the back member including longitudinal

bars, transverse strips connecting said bars, and spaced longitudinal slats secured to the strips, and a continuous fabric covering at the bottom of the seat member and the rear of the back member, said covering being secured to the side sills and the side bars and loosely spanning the hinged connection and arranged across the bottom of the seat member and the rear of the back member, the



slats of the back member combining with the covering to form a plurality of air conduits, said covering being spaced from the slats at the front of the seat member to provide for the circulation of air, and serving to cling to the seat of the automobile and accommodate itself to the curved shape thereof and thereby held from shifting movement.

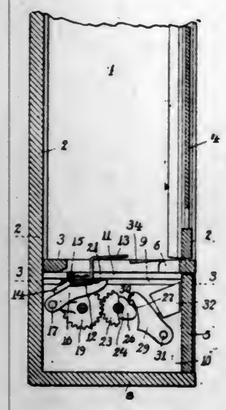
1,455,240. HOLLOW ARTICLE OF RUBBER OR LIKE MATERIAL AND PROCESS AND APPARATUS FOR MAKING SAME. HENRY Z. COBB, New York, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed May 2, 1922. Serial No. 557,924. 35 Claims. (Cl. 18—56.)



1. In a machine for uniting the sections of hollow articles of vulcanizable material, means for joining the sections, and means coacting therewith to collapse one section under pressure against the joint to thereby compact the latter.

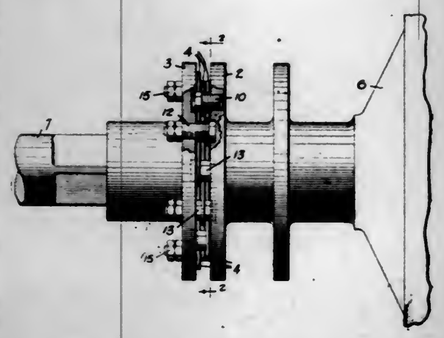
1,455,241. ENVELOPE-DELIVERY MACHINE. DOMENICO COLOSI, Boston, Mass. Filed Aug. 19, 1921. Serial No. 493,642. 4 Claims. (Cl. 211—8.)

1. An envelope delivery machine comprising a case, a support therein for a pile of envelopes flaps down, fingers for engaging the lowermost flap, and means for actuating said fingers embracing a rotative spindle having a crank arm, a dog held by said crank arm, and a sliding bar hinged to said dog and carrying said fingers,



said dog being adapted to tilt the said bar and fingers upward when the latter are at the beginning of their flap-engagement stroke, but to permit their slight depression after such engagement.

1,455,242. COUPLING. JOHN CORGIAT, Jr., and JULIUS J. DUSEVOIR, Oakland, Calif., assignors to Star Motor Company of California, Oakland, Calif., a Corporation of California. Filed Dec. 28, 1920. Serial No. 433,647. 2 Claims. (Cl. 64—96.)

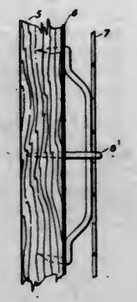


1. A coupling comprising spaced flange plates, and a series of flexible polygonal links, each link being separately secured at certain points to one of said flange plates and at intervening points to the other flange plate.

1,455,243. FURRING AND FASTENING DEVICE. ORIN T. CROWE, Hayward, Calif. Filed Mar. 28, 1922. Serial No. 547,414. 2 Claims. (Cl. 72—120.)

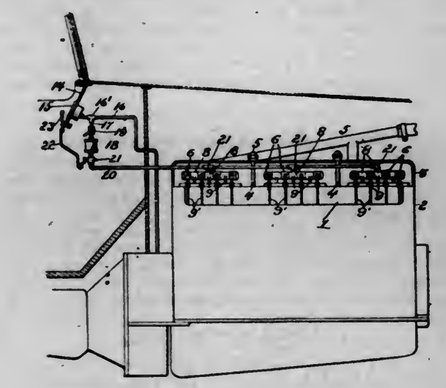
1. In combination, a wall sheathing, a double-humped staple of wide span adapted to be driven in said sheathing to the first hump, and wire lathing adapted to be

separately received and supported on the second hump of said staple, forming in conjunction therewith out-



standing reinforcement for stucco wall composition, the latter adapted to be spread on the sheathing surface and between and around the meshes of said reinforcement.

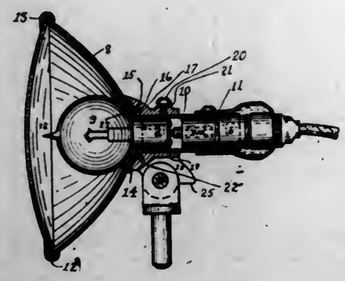
1,455,244. LUBRICATING SYSTEM. CHARLIE FINNELL, Alexandria, Va. Filed Dec. 19, 1921. Serial No. 523,544. 2 Claims. (Cl. 123—90.)



1. In a lubricating system, the combination with an automobile having an engine with valve operating means located above the cylinders thereof and an oil pipe extending to a point higher than said valve operating means, of a conduit leading from said oil pipe to the valve operating means and comprising an oil cup, connection pipes and a manually operable stop cock located between the oil cup and the engine and so disposed as to be operable from the seat of the automobile.

1,455,245. LAMP. HAROLD G. FITZ GERALD, Los Angeles, Calif. Filed Oct. 10, 1919, Serial No. 329,869. Renewed Apr. 5, 1923. 4 Claims. (Cl. 240—41.)

1. A lamp body comprising a casing in which a source of illumination may be disposed, and a cast supporting member formed thereon at the rear thereof; said casing comprising a shell having an aperture in the rearward wall thereof, the material of the casing at



the aperture being formed into an anchor which is embedded in the cast member, and the cast member encasing said anchor both externally and internally.

1,455,246. ELECTRIC IMMERSION HEATER. MARTIN C. FURSTENAU, Philadelphia, Pa. Filed Dec. 10, 1921. Serial No. 521,312. 25 Claims. (Cl. 219—41.)

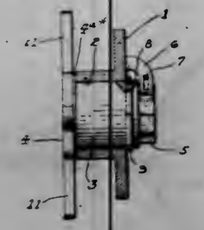


1. In an electrical resistance heater, a casing closed at one end, an insulating core disposed at the closed end of the casing and having an internal space; electrical resistance heating means within the casing and outside the core, and heat-resisting means insulating the heating unit from the remainder of the casing and closing the space in the core thereby establishing a dead air space in the heating unit; substantially as described.

1,455,247. YARN-STICK-SUPPORTING MEMBER FOR DYEING MACHINES. JOHN H. GILES and DONALD M. GILES, Philadelphia, Pa. Filed Apr. 19, 1922. Serial No. 555,566. 5 Claims. (Cl. 8—19.)

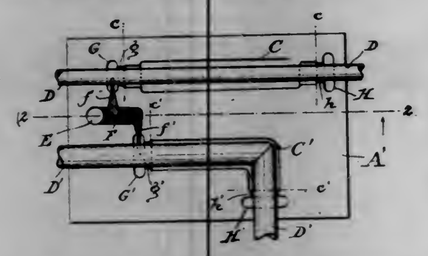
1. In apparatus of the class described, a rotary carrier provided with an outer rim portion, said rim portion being provided with a bearing, a stick supporting member having a shank removably inserted in said bearing for rotation therein, a star wheel on one end of said shank, a ratchet wheel formed integrally with

said shank and disposed at the other end thereof, said wheel projecting beyond said rim portion, a pawl on



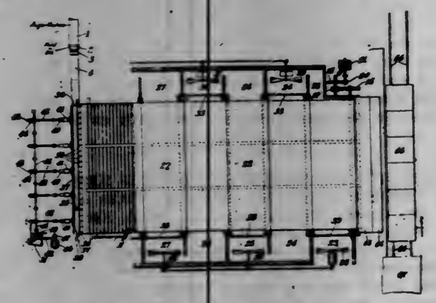
said rim portion to engage said ratchet wheel, and means on said shank intermediate its ends adapted to engage said rim portion to hold said shank in its bearing.

1,455,248. CASTING DIE. CHARLES M. GREY, East Orange, N. J. Filed Apr. 13, 1917. Serial No. 161,743. 42 Claims. (Cl. 22—209.)



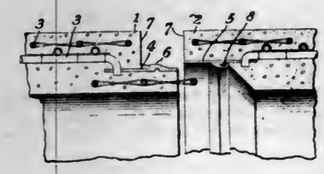
1. A die for die casting cored articles embodying a die chamber to be filled with molten metal, a source of supply for said molten metal, a feed chamber within the die, a duct leading from the source of supply to said feed chamber in the die, and a constricted passage from the feed chamber to the die chamber, whereby the feed chamber is filled from the source of supply and hydraulic pressure is generated in said feed chamber for the purpose of forcing the molten metal, under substantially uniform pressure, through the constricted passage into the die chamber.

1,455,249. APPARATUS FOR THE MANUFACTURE OF HOLLOW TILE. WILLIAM LEE HANLEY, Jr., Bradford, Pa. Filed Mar. 22, 1921. Serial No. 454,590. 14 Claims. (Cl. 25—2.)



1. In a tile plant for the continuous manufacture of hollow cellular tile, the combination with means for forming a continuous cellular tile, provided with longitudinally extending cells, of means for severing the continuous tile into individual tiles, a conveyor having its upper surface movable transversely with respect to the direction of movement of the continuous tile, a drying chamber through which said conveyor passes, and devices for transferring the severed tiles to said conveyor without handling, constructed to place the severed tiles upon said conveyor with their cells disposed horizontally and transversely to the direction of travel of said conveyor.

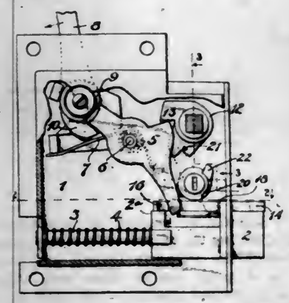
1,455,250. PIPE JOINT. ALLAN M. HIRSH, Montclair, and JOHN C. MITCHELL, East Orange, N. J., assignors to Lock Joint Pipe Company, Ampere, N. J., a Corporation of New Jersey. Filed Apr. 18, 1922. Serial No. 554,787. 3 Claims. (Cl. 72—53.)



1. A joint for concrete pressure pipes comprising, in combination, hard metal cylinders integrally molded into the ends of abutting sections, one of said cylinders having at a given distance from its end a ridge or raised portion of a diameter to fit into the other cylinder when two sections are telescoped and assembled, and a packing or gasket adapted to be tamped in between the two cylinders in the space between the said ridge and the end of the cylinder on which it is formed to complete the joint between the opposing surfaces of the telescoped pipe sections

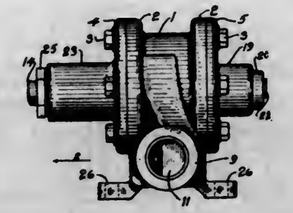
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1,455,251. DOOR LOCK. NORMAN B. HURD, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 18, 1922. Serial No. 544,848. 1 Claim. (Cl. 292—192.)



In a lock, a case, a spring latch bolt slidable therein, a dog mounted for movement upon and carried by the latch, the outer end of said dog normally projecting beyond the beveled face of the latch bolt to be engaged by a strike plate in advance of said bolt, an abutment on the inner wall of the case, the inner end of said dog being arranged to normally engage the said abutment when the bolt is projected, means for retracting the latch, said means cooperating with the inner portion of said dog to disengage the same from said abutment preparatory to retracting the latch.

1,455,252. ROTARY PUMP. HENRY ORR JACKSON, Denver, Colo., assignor to National Pump Company, a Corporation of Colorado. Filed July 15, 1921. Serial No. 484,877. 2 Claims. (Cl. 103—135.)



1. In a rotary pump having a piston chamber and a rotor mounted eccentrically therein; a ringlike casing having a circular chamber therein, said chamber being open at both ends; intake and discharge ports opening into said chamber on the opposite sides thereof; intake and discharge passages connected respectively to the intake and discharge ports, said passages being tangential to the side of said chamber and crossing within the casing, said intake passage opening on the side of the discharge port and said discharge passage opening on the side of the intake port.

1,455,253. FASTENING DEVICE FOR CASES OR SIMILAR RECEPTACLES. WILLIAM JOHN JAGGERS, Southend-on-Sea, England, assignor to J. C. Eno Limited, London, England, a Corporation of England. Filed June 1, 1922. Serial No. 565,051. 4 Claims. (Cl. 217—56.)



1. A fastening and sealing device, for cases and similar receptacles in which the seal is inserted through axially aligned and coinciding eyes or rings, which comprises a shank portion of straight formation having the metal at one end bent into a curved form to constitute the eye and at the other end bent at a right angle so as to be in the plane of the eyelet and formed with a pointed extremity to enable the same to be driven into the material of the case; the arrangement enabling the shank and pointed bent end to be concealed from view while the eyelet only is exposed.

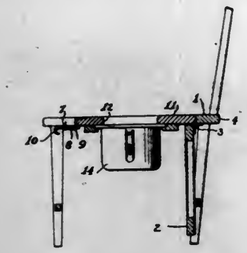
1,455,254. UTILIZATION OF EDIBLE FATS. MAX KAHN, New York, N. Y., assignor to Intarvin Co. Inc., a Corporation of New York. Filed Nov. 19, 1921. Serial No. 516,321. 2 Claims. (Cl. 167—7.)

1. As an improvement in the art of treating or combating acidosis, in cases in which the use of ordinary fats is contraindicated or limited, the use of a product comprising or containing fatty acids having an odd number of carbon atoms in their molecules, as set forth.

2. As an improvement in the art of treating or combating acidosis, in cases in which the use of ordinary fats is contraindicated or limited, the use of a product comprising or containing fatty acids having an odd number of carbon atoms, from eleven to nineteen respectively, in their molecules, as set forth.

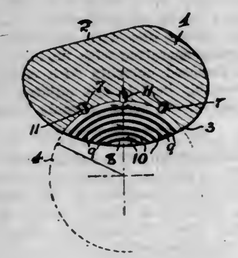
1,455,255. COMBINATION CHAIR. FELIX G. KAPELMAN, New York, N. Y. Filed Apr. 18, 1922. Serial No. 554,939. 5 Claims. (Cl. 155—31.)

1. A convertible chair, comprising a frame having a seat opening therein, a bottom secured to said frame and movable into and out of said opening, a removable bottom adapted to fit said opening, said first bottom when out of



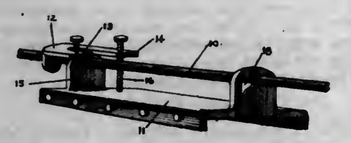
the opening being adapted to support the removable bottom at one side of the opening, and means for supporting either of said bottoms at the opposite side of the opening.

1,455,256. GOLF CLUB. ARTHUR A. KRAEUTER, South Orange, N. J., assignor to Kroydon Co., a Corporation of New Jersey. Filed Jan. 19, 1922. Serial No. 530,283. 7 Claims. (Cl. 46—4.)



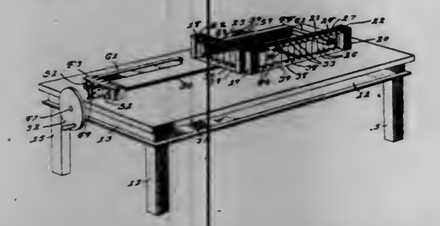
1. A golf-club comprising a striking-head provided with a receiving chamber, a balancing weight fitted in said chamber, means connected with the side-surfaces of said balancing weight and cooperating with the walls of said chamber to prevent the withdrawal of said weight directly from said head, and means extending from a marginal portion of said weight and in engagement with other portions of said head to prevent rotary movement of said weight within the chamber of said head.

1,455,257. MOUNTING FOR MAKE-UP FRAMES FOR PRINTING PRESSES. HARRY B. MCBEE, St. Louis, Mo., assignor to McBee Binder Company, Athens, Ohio. Filed Sept. 26, 1921. Serial No. 505,316. 4 Claims. (Cl. 101—287.)



1. In a printing press, a make-up frame mounted for limited rotary movement on a carrying shaft; means on the carrying shaft for limiting the rotation of the make-up frame, said means being such as to also function for retaining the make-up frame in its rotated position, substantially as shown and described.

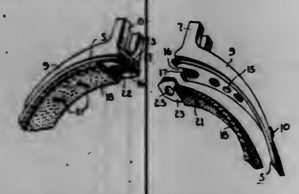
1,455,258. MACHINE FOR CUTTING BUTTER. RAY MCGREER and HUETT J. BELCHER, Oklahoma, Okla. Filed Mar. 6, 1922. Serial No. 541,519. 2 Claims. (Cl. 31—65.)



1. In a machine of the class described, a support, a rectangular table thereon, push blocks movably mounted on said table for movement at angles to each other, and independent screw means for moving said push blocks in directions at right angles to each other, said push blocks being vertically slitted, open-topped frame-holding means and dies removably held in said means having cutting wires cooperating with the slits of said blocks.

2. In a machine of the class described, a support, a rectangular table thereon, push blocks movably mounted on said table for movement at angles to each other, independent screw means for moving said push blocks in directions at right angles to each other, said push blocks being vertically slitted, dies with rectangular frames having cutting wires cooperating with the slits of said blocks, and angularly-disposed uprights with channels, the said dies being removably held in two adjacent walls thereof, one of said push blocks being movable in said frame.

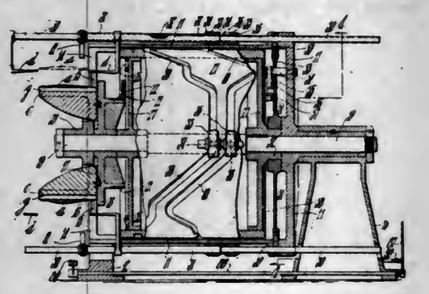
1,455,259. DETACHABLE BRAKE AND TRANSMISSION BAND LINING. WILLIAM ALLAN MCGUIRE, Turtle Creek, Pa., assignor to McGuire Band and Lining Mfg. Co., Turtle Creek, Pa., a Corporation of Pennsylvania. Filed Feb. 16, 1922. Serial No. 537,027. 5 Claims. (Cl. 188—249.)



3. The combination with an outer brake or transmission band provided with open slots at its ends, and having on each end a superposed base portion carrying a forked lug, the band being free from the base portions at each end, a pin mounted on each base portion and projecting inwardly through the open slots of the band, and a detachable lining having perforated clips secured at its ends, said clips adapted to be inserted between the slotted ends of the band and the base portions with the pins engaging the perforation in the clips, whereby the clips are locked in position between the slotted ends of the bands and the base portions.

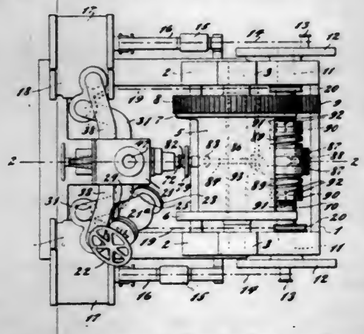
1,455,260. TIRE MANUFACTURE. THOMAS MIDGLEY, Springfield, Mass., assignor to Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 4, 1919. Serial No. 301,782. 31 Claims. (Cl. 154—10.)

1. In a device for applying extensible bands to cores in the manufacture of tire casings, means for supporting a core, means for stretching an endless band from a circumference less than to a circumference greater than that of the core at its crest, means for removing the stretched band from the stretching means and carrying



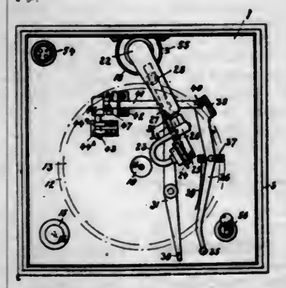
it to a position encircling the core, and means for releasing the band from the carrier so that it may contract upon the core.

1,455,261. TOWING ENGINE. THOMAS SPENCER MILLER, South Orange, N. J. Filed Sept. 9, 1918, Serial No. 253,217. Renewed Oct. 14, 1922. Serial No. 594,611. 22 Claims. (Cl. 254—172.)



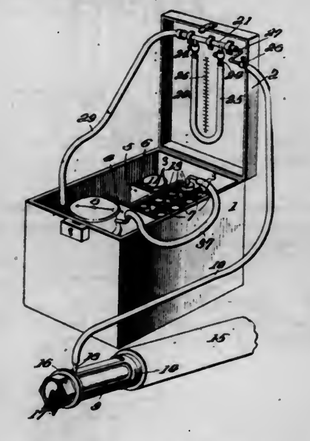
1. In a towing engine, a drum adapted to have a towing hawser wound thereon, a fluid pressure engine for operating the drum, and means whereby stalling of the engine due to balancing of engine power and hawser tension operates to control the pressure of fluid in the engine cylinder.

1,455,262. ELECTRICALLY-DRIVEN SOUND-REPRODUCING MACHINE. REINHARD MOSMANN, St. Gallen, Switzerland. Filed Mar. 1, 1922. Serial No. 540,236. 2 Claims. (Cl. 192—123.)



1. In a sound reproducing machine including a record-supporting turntable, an electromotor for operating said turntable, and a movable tone arm carrying a sound-box and a record-guided needle, adjustable automatic means for momentarily arresting the rotary machine parts, comprising a main circuit for the motor, a secondary circuit including an electromagnet, adjustable contact members below said turntable actuable by said tone arm and adapted to control said secondary circuit, a switch common to both said circuits adapted to be operated by said electromagnet upon closure of said secondary circuit, a brake acting on said turntable and operable on closure of said secondary circuit.

1,455,263. METHOD AND APPARATUS FOR TESTING GASEOUS MIXTURES. GEORGE G. OBERFELL, Tulsa, Okla. Filed June 11, 1920. Serial No. 388,370. 4 Claims. (Cl. 73—56.)



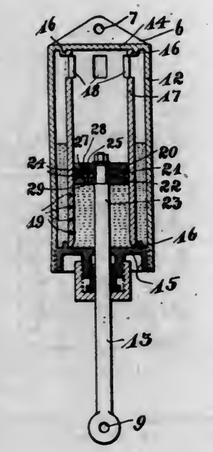
1. An apparatus for testing a gaseous mixture to determine the flow, specific gravity and condensable vapor content, which comprises a compact and portable case containing an orifice meter and equipment for regulating the flow, a flow meter and positive meter for use in determining the volume and specific gravity, and tubes connectable with one of said meters and filled with activated charcoal for use in determining the condensable vapor content of the gaseous mixture.

1,455,264. EASILY AND NEUTRALLY SOLUBLE DOUBLE COMPOUNDS OF 1-ALLYL-3.7-DIMETHYL-XANTHINE. ERNST PREISWERK, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,307. 4 Claims. (Cl. 260—34.)

1. As new products the double compounds of 1-allyl-3.7-dimethylxanthine which may be produced by allowing at least two molecules of an alkali salt of a benzolcarbonic acid to act upon one molecule of 1-allyl-3.7-dimethylxanthine, such products being easily soluble in water, particularly in warm water, their dilute aqueous solutions reacting neutrally and being unaltered by the addition of alkali, the addition of mineral acids to moderately dilute solutions of these products producing a white crystalline precipitate and such products, upon intense heating, leaving a solid residue of alkaline reaction.

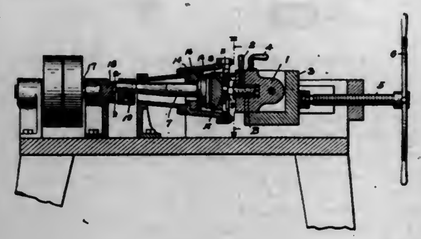
1,455,265. SHOCK ABSORBER. WILLIAM S. RABB, Los Angeles, Calif. Filed Aug. 2, 1921. Serial No. 489,175. 5 Claims. (Cl. 188—88.)

1. In a shock absorber, a piston made up of several plates having apertures to align in form of passages through the piston, the plate in one end of the piston having apertures to form valve seats, and the plate in the



opposite end of the piston having apertures of a shape not to be closed by an inserted valve.

1,455,266. MACHINERY FOR MAKING DIES. HARRY C. RICKENBACH, Pittsburgh, Pa., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1921. Serial No. 518,565. 5 Claims. (Cl. 76—4.)

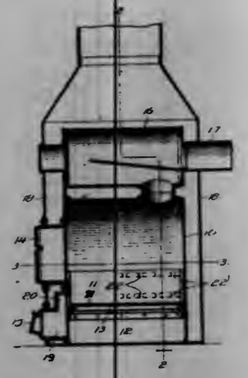


1. A machine for swedging the faces of dies, including the combination of a carrier provided with a seat for one of the two coacting bodies (blank and matrix) and with a spherical bearing surface remote from said seat, the center of curvature of said bearing surface being coincident with the center of the face of the body referred to when in place in said seat, and a frame for said carrier including a spherical socket for said bearing surface and a keeper adapted to engage said carrier adjacent the aforementioned seat therein and by such engagement, while leaving the carrier otherwise free, preventing axial rotation thereof, substantially as described.

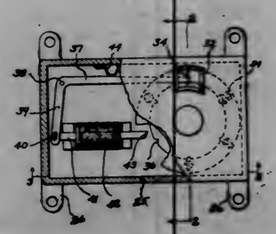
1,455,267. HEATING FURNACE. CURTIS A. ROHN, Portland, Oreg. Filed Feb. 10, 1922. Serial No. 535,598. 3 Claims. (Cl. 126—112.)

1. In a furnace including a fire chamber, ash pit, and a grate between the fire chamber and ash pit, an intake

for air leading into the ash pit, a flue providing communication between the air intake and the fire chamber, and an imperforate plate adapted to be disposed upon the grate to cut off the passage of air therethrough.



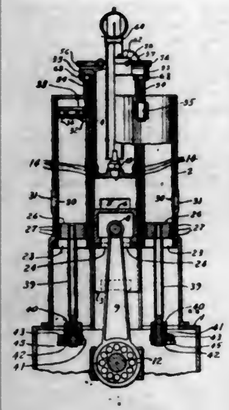
1,455,268. TELEPHONE CALL REGISTER. BENEDETTO SAPIENZA, New York, N. Y. Filed Mar. 7, 1922. Serial No. 541,748. 2 Claims. (Cl. 235—91.)



1. A call telephone register comprising a casing, a spindle rotatable in said casing, a numbered dial, and a notched disk secured to said spindle, a pivoted lever engaging the notches having an angularly extending arm, an electromagnet, a plunger slidable in said electromagnet, said plunger being connected with and adapted to release the lever from engagement with the notches of said disks to permit rotation of the same, upon its forward movement, the end of said plunger making contact with the periphery of said disc, and means for rotating the dial upon the release of said disc.

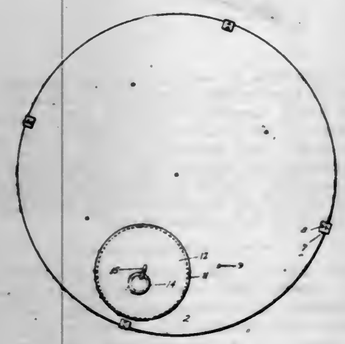
1,455,269. INTERNAL-COMBUSTION ENGINE. FRANK SCHAFER, Duluth, Minn. Refiled for abandoned application Serial No. 213,662, filed Jan. 21, 1918. This application filed Nov. 30, 1921. Serial No. 518,966. 15 Claims. (Cl. 123—65.)

15. In an internal combustion engine, a support provided with a central bore, a tubular piston reciprocating therein; a head adjustably secured to said support and extending into the cavity of said piston so as to form in conjunction therewith an explosion chamber, said support provided with additional bores in each of which is positioned a compression cylinder arranged to reciprocate with said piston, a stationary piston fixed to said support and mounted in each compression cylinder, port opening in the walls of said piston, similar ports in first named cylinder and each of said compression cylinders,



said ports adapted to be brought in alinement for introducing an explosive charge into said chamber and means to ignite said charge.

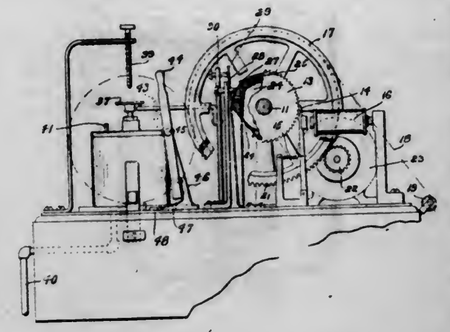
1,455,270. SHIPPING CONTAINER. AUGUST SCHILLING, San Francisco, Calif. Filed Sept. 6, 1921. Serial No. 498,803. 5 Claims. (Cl. 217—76.)



1. A container formed of a side wall and an end wall secured to the side wall, said end wall being formed of two layers of material adhesively secured together in superimposed relation, said layers being annularly cut each for its full depth affording a removable closure for the container consisting of two members of different diameters one lying within the other, said closure adapted for initial removal on the breaking of the adhesion between the cut portion of the larger member and the uncut portion of the layer surrounding the smaller member.

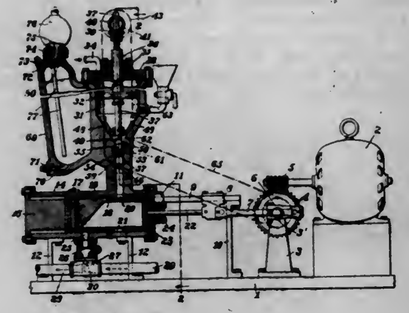
1,455,271. DAMPER CONTROL FOR HEATERS. ARTHUR E. SHARPLES, Providence, R. I. Filed Jan. 13, 1922. Serial No. 529,067. 8 Claims. (Cl. 236—46.)

1. A damper-control for heaters comprising a winding member connected to operate the dampers, an electric circuit including an electric motor for driving said winder in one direction, an electric circuit including a magnet for controlling the movement of the winding member in the other direction, and a steam-actuated piston arranged to



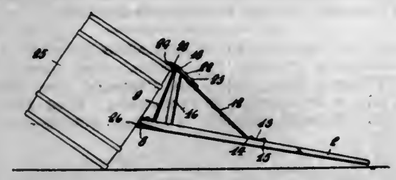
control the different electric circuits for operating said motor and magnet when the steam reaches predetermined degrees of low or high pressures.

1,455,272. LUBRICATOR. HENRY J. SHAVERS, Goldsboro, N. C. Filed Oct. 31, 1921. Serial No. 511,771. 8 Claims. (Cl. 184—37.)



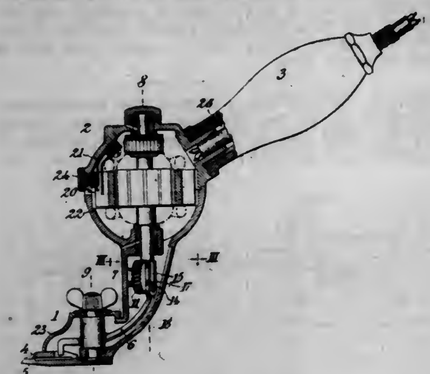
6. A lubricator comprising a base, a cylinder on said base, a hollow plunger in said cylinder provided with an inlet and outlet port and an inlet and outlet port in said cylinder, a reservoir for the lubricant, a vertical shaft in said reservoir and provided with vanes at its lower end for agitating the lubricant in said cylinder, a rotatable shaft located beneath said reservoir and provided with oppositely disposed pockets for receiving and discharging the said lubricant, tubes extending into said pockets and adapted to be moved inwardly and outwardly of said pockets to regulate the capacity of said pockets, means for forcing the plunger inwardly and outwardly to draw the lubricant into said plunger, said rotatable means being connected to said means for operating the plunger so that said rotatable means and said plunger will operate in synchronism, means connected with said rotatable means and with said vertical shaft in said cylinders for operating the vertical shaft in said cylinders, said plunger on its rear stroke adapted to withdraw the lubricant from the said rotatable means into said plunger and on its forward stroke compress the air in said plunger and force the same with the lubricant from the cylinder to the parts to be lubricated.

1,455,273. APPARATUS FOR HANDLING PACKAGES. FRANCIS MARION SHEEN, New Orleans, La. Filed Jan. 19, 1922. Serial No. 530,364. 3 Claims. (Cl. 294—15.)



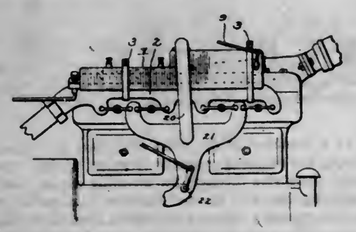
1. In an apparatus for handling articles the combination of a lever member; an article engaging member rigid with said lever member; a strap member provided with an angle portion secured to said lever member; a stiffening member engaging said angle portion and said lever member; and an article engaging member rigid with said strap member, substantially as described.

1,455,274. POWER-DRIVEN IMPLEMENT FOR CUTTING HAIR OR THE LIKE. WILLIAM GENTRY SHELTON, New York, N. Y. Filed May 14, 1919. Serial No. 297,083. 3 Claims. (Cl. 30—1.)



1. An implement for hair-cutting comprising a motor, a cutting tool, an oscillatory tool-actuating lever and a worm and gear transmission between said motor and lever, said motor and lever turning on substantially parallel axes, said gear turning on an axis radial to the axis of said lever, and said lever having one end bent upward to a position substantially parallel with the axis of said motor, whereby said motor may be located substantially above the heel of said cutting tool.

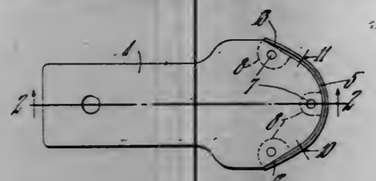
1,455,275. GENERATOR. ERIC L. STANGELAND, East Stanwood, Wash. Filed Apr. 20, 1922. Serial No. 555,755. 3 Claims. (Cl. 48—107.)



1. A vaporizer for gasoline engines, including a tank having a bottom wall adapted to be heated by the exhaust

pipe of the engine, means for delivering fuel to the tank at one end of said bottom wall, means for delivering air to the tank, a chamber arranged above the tank and having valve communication therewith, and a feed pipe leading from said chamber to the intake manifold.

1,455,276. HEELPLATE FOR SKATES OR THE LIKE. ARTHUR L. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 20, 1922. Serial No. 530,674. 4 Claims. (Cl. 46—51.)



1. A heel plate for skates or the like having an upstanding heel band at the rear of the plate constructed with a centrally disposed concave portion adapted to receive the rounded contour of a shoe heel of minimum size and straight side faces diverging forwardly therefrom to provide a two-point bearing for the rounded rear ends of heels of larger sizes.

1,455,277. INDICATOR. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., and WILLIAM WESTERMAN, Detroit, Mich. Filed Oct. 8, 1920. Serial No. 415,514. 9 Claims. (Cl. 33—141.)



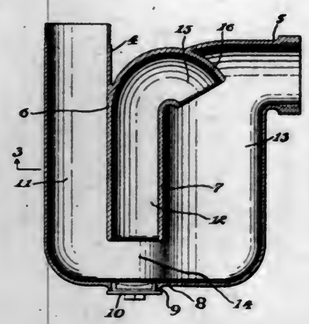
9. In combination, a rolling mill, a motor for driving the same, a flexible coupling between said motor and mill, an indicator adapted to be driven by said mill for indicating the amount of material passed through the mill, an electric clutch for controlling the operation of said indicator, an electric circuit for said clutch, and contact mechanism carried by said flexible coupling and adapted to be actuated to closed position by entrance of material to said mill, said contact mechanism controlling said circuit for said electric clutch.

1,455,278. MILL. AUGUST SUNDH, Hastings-upon-Hudson, N. Y. Filed Oct. 8, 1920. Serial No. 415,515. 3 Claims. (Cl. 266—3.)



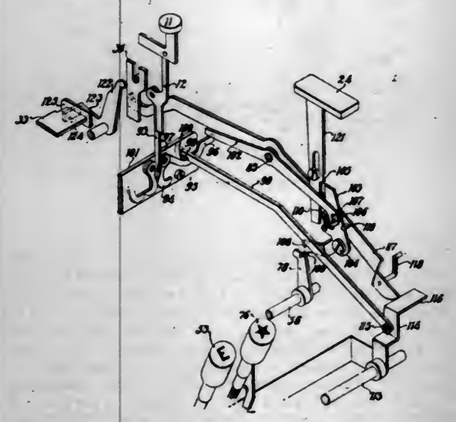
1. In a machine of the class described the combination of means for cleaning a series of metal strips, means for drawing the strips through the cleaning means, and means for splicing the end of one strip to the end of another strip, said splicing means comprising mechanism for striking up portions of the strips to be spliced to form loops therein, and means for engaging said loops to maintain one strip secured to the other.

1,455,279. TRAP FOR DRAINS AND THE LIKE. CHESTER M. SYLVESTER, Middleboro, Mass. Filed Dec. 16, 1922. Serial No. 607,312. 9 Claims. (Cl. 182—12.)



1. A trap comprising a casing having inlet, vent and outlet chambers in juxtaposition, said chambers communicating together at the base of the trap and the vent and outlet chambers having discharge openings at the same height, the capacity of the outlet chamber being greater than the combined capacities of the inlet and vent chambers whereby sufficient water is retained in the outlet chamber when the trap is subjected to heavy siphonic action to provide a seal for the trap.

1,455,280. COMBINED TYPEWRITING AND COMPUTING MACHINE. HARRY H. VICKERS, Corona, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1921. Serial No. 439,941. 61 Claims. (Cl. 235—60.)

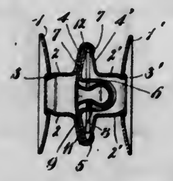


1. In combination, computing mechanism comprising numeral keys for controlling the same, a clearance key, a clearance-sign-printing mechanism controlled by said clearance key, and means whereby depression of any one of said numeral keys will prevent actuation of said printing mechanism.

45. In combination, computing mechanism comprising numeral keys, devices in which numbers may be indexed in accordance with the numeral keys depressed, and a general operator whereby numbers so indexed may be computed, general-operator-actuating means including a starting key to render the same effective, an elimination

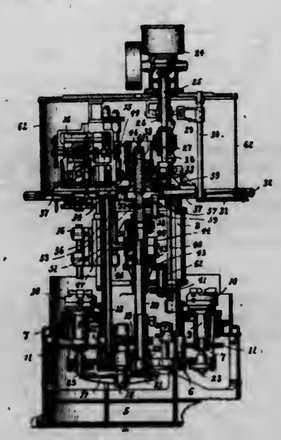
key, elimination-key-controlled means whereby the index devices may be restored to normal condition, and means whereby depression of any one of said keys will lock the others against depression.

1,455,281. SNAP BUTTON. MAURICE J. BAER, Attleboro, Mass., assignor to The Baer & Wilde Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Jan. 19, 1922. Serial No. 530,327. 3 Claims. (Cl. 24—102.)



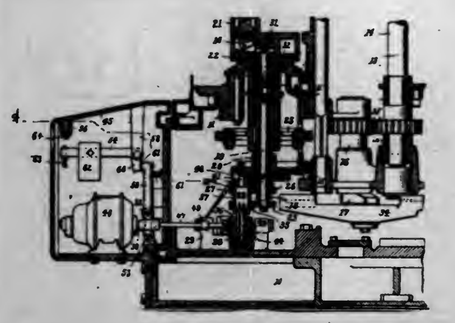
1. A snap button comprising two separable members each having a tubular shank, said shanks having interfitting male and female flanges on their inner ends, and stud and socket parts confined within the hollow shanks when the separable members are interconnected, said parts having flanges secured to said male and female flanges respectively.

1,455,282. INDEXING DEVICE. EDWARD P. BULLARD, Jr., Bridgeport, Conn., assignor to The Bullard Machine Tool Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 30, 1920. Serial No. 377,910. 8 Claims. (Cl. 29—50.)



1. A multiple spindle machine, comprising a rotatable carrier, a series of rotary work tables mounted in the carrier, a series of tool heads positioned above the operative stations of the work tables, means for indexing the carrier to move the tables a given distance during a cycle of operation of the indexing means, means for operating the tool heads and work tables, and operative connections between said indexing means and said operating means for indexing the carrier and selective means whereby the indexing means is operated through one or a plurality of cycles to index the carrier through different distances with relation to each operation of the tool heads and tables.

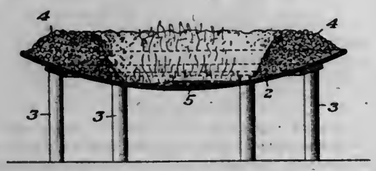
1,455,283. ELECTRIC-OPERATING CHUCKING DEVICE. EDWARD P. BULLARD, Jr., Bridgeport, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 4, 1920. Serial No. 408,243. 32 Claims. (Cl. 29—38.)



1. The combination with a rotary work carrying table having a spindle, of a series of slidable jaws mounted thereon, connections through the table spindle with the jaws for opening by movement in one direction, and closing the jaws by movement in the opposite direction and including a member fixed against longitudinal movement in said spindle and rotatable axially thereof, a spur gear on said member, a spur gear adapted to be meshed and unmeshed therewith through movement of the table, and means for driving said last mentioned spur gear in opposite directions to open and close the jaws.

15. In a clucking device, the combination with a rotatable carrier, a series of rotary work carrying tables mounted therein, a series of chuck jaws operatively mounted in each table, means within each table spindle connected with the respective jaws for operating the same, a single electromotor power unit with which the chuck jaw operating mechanism register when brought to the loading station, manually operable means for starting the operation of the power unit, and means adapted to automatically shut off power to the electric motor at a predetermined point.

1,455,284. BURNING SULPHUR. HAROLD S. DAVIS, Pittsburgh, Pa., assignor to Texas Gulf Sulphur Company, New York, N. Y., a Corporation of Texas. Filed Jan. 21, 1922. Serial No. 530,790. 16 Claims. (Cl. 23—1.)

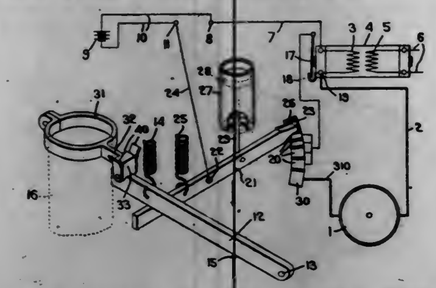


1. The improvement in the burning of sulphur which comprises maintaining the sulphur freely burning by associating with the sulphur a sulphur combustion-accelerating material.

1,455,285. TELEPHONE INDICATOR. WILLIAM H. EASTMAN, Concord, N. H., assignor of one-half to Herbert C. Whitney, Penacook, N. H. Filed June 1, 1922. Serial No. 565,172. 5 Claims. (Cl. 179—28.)

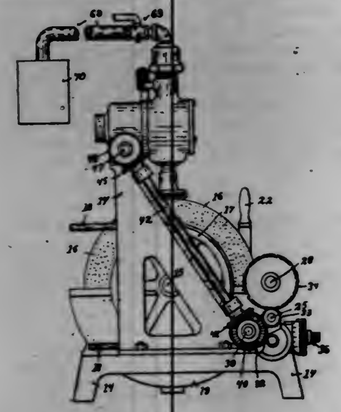
1. In a telephone, the combination with a transmitter and its local circuit, of a receiver-supporting arm which when depressed opens the local transmitter circuit and

closes the ringing circuit and when raised opens the ringing circuit and closes the local transmitter circuit, an indicating circuit connected to the local transmitter circuit, an indicator in said indicating circuit, and means operative while the receiver-supporting arm is rising after the receiver has been removed but before the transmitter circuit is closed to close the indicating circuit.



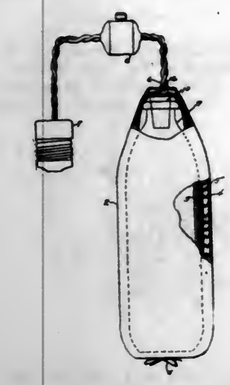
5. In a telephone, the combination with a vertically-movable receiver-supporting arm, of a receiver having a laterally-extending neck and a head at the end of the neck adapted to rest on said arm, a vertical guideway to receive the head, said guideway being constructed to permit freely downward movement of the head but to prevent upward movement thereof, and also having an opening at its lower end through which the head can be laterally withdrawn from the arm.

1,455,286. GRINDING APPARATUS. ROBERT E. FOSDICK, Cincinnati, Ohio. Filed Sept. 10, 1920. Serial No. 409,318. 8 Claims. (Cl. 51—105.)



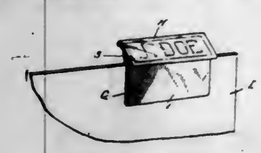
1. A grinding apparatus comprising a rotary abrasive wheel, a frame adjustable to and from said wheel and provided with a pair of centers adapted to hold a plurality of stock members to present the edges of each of said stock members to said abrasive wheel, means to rotatably feed said centers to present fresh surfaces of the stock members to the wheel until the stock members have reached predetermined dimensions, a chuck housing having a rotary adjustment and a sliding adjustment, a chuck rotarily mounted on said chuck housing and adapted to successively hold single stock members at one end thereof and adjustable to present an edge of the stock at a predetermined angle to the action of the abrasive wheel, and a driving train common to both of said chucks to rotate said chuck to feed fresh surfaces of the stock to said wheel until the stock members have respectively reached predetermined dimensions.

1,455,287. ELECTRIC HEATER. IDALE L. HADLEY, Hartford, Conn. Filed Aug. 28, 1922. Serial No. 583,705. 4 Claims. (Cl. 219—46.)



1. An article of the class described comprising a container to contain a bottle, a resistance element incorporated in the stock of the container, leads connected to the resistance element, and a plug electrically connected with the leads.

1,455,288. INDEX TAB. WINFIELD A. HARDY, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,318. 7 Claims. (Cl. 40—28.)



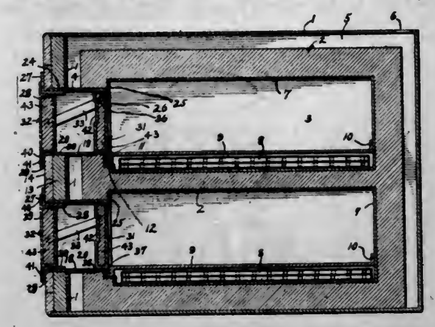
1. A card index tab comprising a body part and a head part, the body part including portions to straddle the card, and a spring device formed of material different from the body part and being carried by the body part and adapted to engage the card to frictionally retain the body part connected with the card.

1,455,289. BLANK FOR EMBLEMS AND THE LIKE. GEORGE W. HEENE, Cleveland, Ohio. Filed Oct. 10, 1922. Serial No. 593,583. 6 Claims. (Cl. 40—2.)



1. A blank of the character described, comprising a circular flat body, a circular row of serrations embossed along the outer surface of the face of said body, a blank annular surface adjacent to and inward of said row of serrations, a circular depression adjacent to and inward of said annular surface, and a blank circular surface inside of said circular depression.

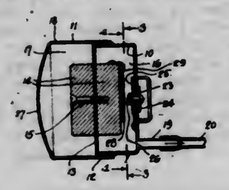
1,455,290. ELECTRIC BAKE OVEN. JACOB HIRE, Seattle, Wash. Filed Mar. 10, 1922. Serial No. 542,607. 7 Claims. (Cl. 107—65.)



1. An oven structure comprising an inner insulation wall, an outer casing spaced around said inner insulation wall to provide an air chamber, said insulation wall having a baking chamber formed therein, a double door including an inner door member for closing said baking chamber and an outer door member connected to said inner door member for closing and opening the outer casing opposite said baking chamber, and means for assuring an air tight engagement of said inner door and said outer door member with said inner insulation wall and said outer casing, respectively.

5. An electric bake oven comprising an outer casing, an inner insulation wall structure within said outer casing with an air space provided therebetween, an inner lining within said inner wall structure to provide a baking chamber, a double door for said bake oven including an inner door member for closing a door opening in said baking chamber and an outer door member for closing a corresponding door opening in the outer casing, operative connections between said door members to cause uniform movement thereof to open and closed position, and means for assuring tight fitting of said door members when in closed position.

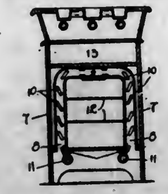
1,455,291. THERAPEUTIC VIBRATOR. PAUL W. HOFFMANN, New York, N. Y. Filed Aug. 24, 1921. Serial No. 494,819. 5 Claims. (Cl. 128—40.)



1. In a therapeutic vibrator, the combination of a casing, an elastic rubber diaphragm extending across the interior of the casing, a two-part weight supported upon opposite sides of the diaphragm and movable with the diaphragm relatively to the casing, and means acting upon the diaphragm to cause such relative movement of the weight and diaphragm in one direction, the weight and diaphragm being movable subsequently in the other direction by the resiliency of the diaphragm..

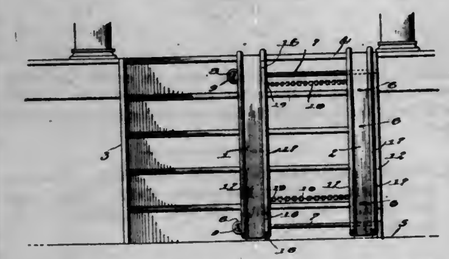
1,455,292. COOKING STOVE. JAMES DOWSON JACKSON, Manly, near Sydney, New South Wales, Australia. Filed Jan. 4, 1922. Serial No. 526,880. 1 Claim. (Cl. 126—39.)

In gas fired domestic cooking stoves of the noncontact oven type, in which the combustion gases do not contact with the food being cooked, an upwardly extending heat chamber on one side of the oven in communication with the



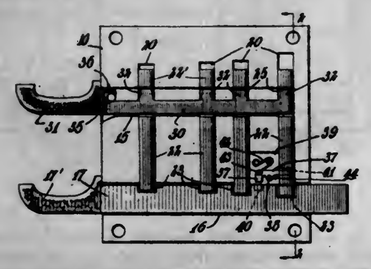
heating gases and with an escape flue and tubes within said chamber open at each end to the oven but not to the heating gases substantially as described.

1,455,293. ADJUSTABLE TRACK. HENRY C. KOLLING and WILLIAM MCGILL, Wichita, Kans. Filed May 24, 1922. Serial No. 563,218. 5 Claims. (Cl. 193—41.)



1. A track of the character described comprising a pair of longitudinal rail members, and means adjustably connecting the rails together in parallel relation and permitting of movement of one rail from a position in which it is disposed laterally of the other rail to a position in which it is superimposed upon the latter.

1,455,294. LOCK. PIOTR KONDRAD, Wilkes-Barre, Pa. Filed June 7, 1922. Serial No. 566,503. 3 Claims. (Cl. 70—76.)

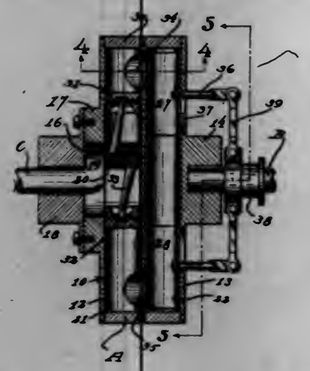


2. In a lock a casing element, a bolt slidable in said casing element and having a notch and a socket formed therein, a vertical tumbler bar resting in said notch, and a latch pivoted in the said casing element and adapted to engage the said socket when the tumbler bar is lifted for a distance clear of the bolt, said latch having an arm engaging in a vertical slot in said tumbler bar to form an operative connection between the latter and the latch.

1,455,295. HYDRAULIC TRANSMISSION. CHARLES KRUSE, San Luis Obispo, Calif. Filed Oct. 17, 1921. Serial No. 508,222. 4 Claims. (Cl. 192—60.)

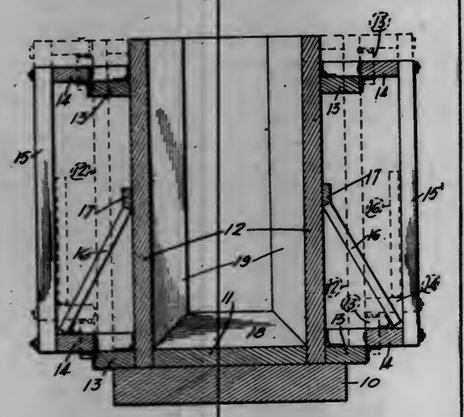
1. In a fluid transmission, a drive shaft, a driven shaft, a fly wheel carried by one of the shafts, a crank

carried by the other shaft, cylindrical ways extending through the wheel, ports connecting the ends of the ways together, pistons slidably mounted in one of the ways,



means connecting the pistons with the crank, and slide valves mounted in the other way for movement toward and away from said ports for controlling the size of said ports.

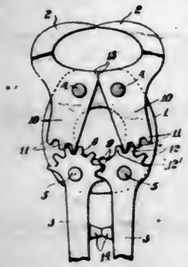
1,455,296. CONCRETE-BLOCK MACHINE. FRANCIS SCOTT LINDLEY, East Bakersfield, Calif. Filed Sept. 22, 1921. Serial No. 502,348. 6 Claims. (Cl. 25—121.)



6. In a concrete block machine, a base, a plate removably positioned thereupon, upright panels adapted to be arranged about said plate and to co-operate therewith in forming a mold, horizontally disposed rails hinged to the outer faces of said panels, vertically movable frames hinged to said rails, locking means adapted to be arranged between the lower one of the frames and said panels for retaining the latter in assembeld relation, and ribs arranged on the inner faces of said panels.

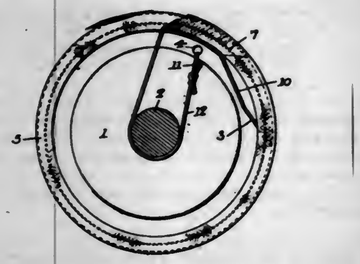
1,455,297. CUTTING TOOL. WILLIAM W. LYONS and GEORGE E. MCELROY, Newark, N. J., assignors to Heller Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Nov. 21, 1921. Serial No. 516,562. 6 Claims. (Cl. 81—200.)

1. A lever operated tool of the character described, comprising a pair of fulcrumed operating levers provided with intermeshing gear segments and with gear teeth angularly positioned relatively to correspond, pivotally mounted jaw members provided with lever extensions and having segmental gears thereon in symmetrical



arrangement and interengaged with the correspondingly positioned gear teeth of the operating levers whereby the jaw members may be interchangeably positioned, substantially as described.

1,455,298. BURNISHING-WHEEL COVER. HARRY ALLYN MASBEY, Lima, Ohio. Filed Sept. 5, 1922. Serial No. 586,385. 2 Claims. (Cl. 51—194.)

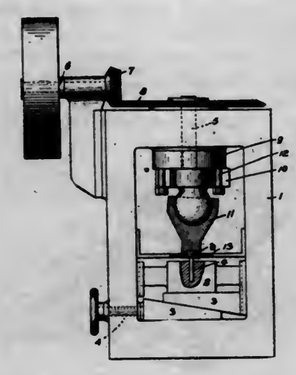


1. The combination of a burnishing wheel having a slot cut in from its periphery and a transverse hole therethrough, with a cover formed of a unitary piece of material extending over the face of the wheel and a short distance over the sides, and having its edge portions stitched to form casings, and a draw string freely running in said casings and having a loop at one end of the cover lying in the slot in the wheel, and the draw string ends being passed, one through the hole and the other around the wheel axle, and being then fastened together.

1,455,290. METHOD OF EVAPORATING AMMONIA LIQUOR. FRANK F. MARQUARD, Clairton, and CARL W. LITTLER, Swissvale, Pa. Filed Nov. 11, 1920. Serial No. 423,288. 6 Claims. (Cl. 23—13.)

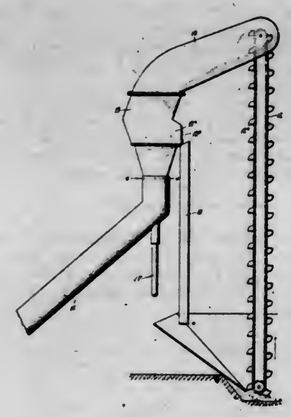
1. The method of treating crude ammonia liquor from by-product coke plants to recover the salts of ammonium chloride and other salts therein, which consists in passing such liquor down through a tower over noncorrodible baffles, and passing a counterflow of hot gas up through said tower, spraying a quantity of the liquor into the path of said hot gas and up against the lower baffles, collecting all of said liquor in the lower portion of the tower, and passing said liquor in a continuous circuit from the bottom of the tower upward through suitable conduits and spraying it down over said baffles against said counter-flow of hot gas, causing it to evaporate until the desired degree of concentration is effected.

1,455,300. METHOD OF AND MACHINE FOR SWAGING BLANKS. JAMES H. MATTHEWS, Pittsburgh, and WILLIAM R. ECKE, Emsworth, Pa., assignors to James H. Matthews & Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 29, 1920, Serial No. 369,667. Renewed Apr. 9, 1923. 7 Claims. (Cl. 76—4.)



1. The herein described methods of raising upon the face of a blank the cutting edges of a die which consists in bringing the blank and a forming member provided with recesses corresponding to the desired surface elevations of the die into face to face contact, and then, while maintaining a continuous swaging pressure between them, rolling one of said parts in orbital motion upon the other.

1,455,301. GRAIN ELEVATOR. CHRISTOPH METTLER, Sr., Menno, S. Dak. Filed July 9, 1920. Serial No. 395,051. 3 Claims. (Cl. 198—43.)



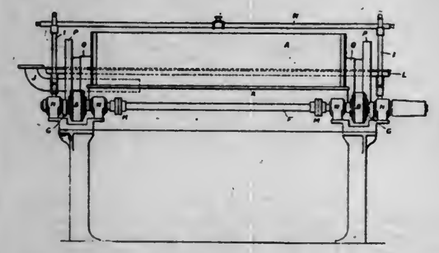
1. In a grain elevator, a distributor head having a passage through which grain is adapted to flow, said distributor head being provided with an offset portion having an opening laterally spaced from the normal path of the grain through the distributor head, and means for normally closing said opening and operable by the pressure of the excessive grain accumulating in said distributor head to uncover said opening and permit discharge therethrough.

1,455,302. SUSPENDING DEVICE FOR GARMENTS. HORACE Z. NABERS, Greenville, S. C. Filed Oct. 26, 1921. Serial No. 510,455. 1 Claim. (Cl. 24—84.)



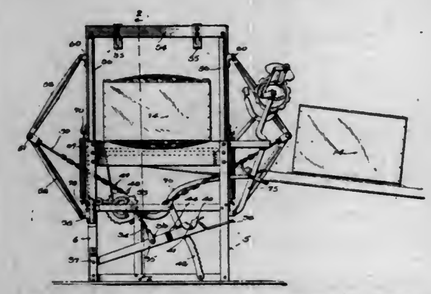
A suspending device for garments constructed from a single blank of sheet metal comprising a body U-shaped in cross section for receiving the upper edge of the garment and including an inner and an outer flat leg and an upper curved connecting portion, the outer leg and the curved connecting portion having a tongue struck out therefrom, the tongue lying above and in the same plane with the inner leg, and a hook formed on the upper edge of said tongue.

1,455,303. MACHINE FOR STRAINING PAPER PULP. JOHN PARAMOR, Watford, England, assignor of one-half to The Watford Engineering Works, Limited, Watford, Herts County, England. Filed Sept. 1, 1921. Serial No. 497,787. 3 Claims. (Cl. 92—35.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a paper-pulp strainer of the rotary drum type, the combination, with a trunnion-ended straining drum, of a cradle-arm in direct connection with an eccentric at one end, suspended or supported by means of a rigid link at its opposite end, and formed at an intermediate point with a bearing in which the drum-trunnion is carried, substantially as and for the purpose set forth.

1,455,304. PRESS. JOSEPH IRWIN POGUE, Omak, Wash. Filed Mar. 30, 1922. Serial No. 548,005. 11 Claims. (Cl. 100—57.)



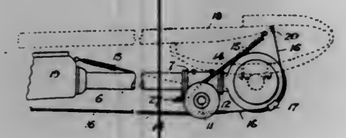
1. A box press comprising a frame, a tiltable platform carried thereby, a link connected to the platform, and means to periodically move said link longitudinally whereby to tilt said platform.

5. A fruit box press comprising a frame, a platform carried thereby, pivot elements connected to the platform between its longitudinal edges and horizontally pivoted to

the frame whereby the platform may swing about a horizontal axis, and a tripping device for swinging said platform about a horizontal axis, whereby the box mounted thereon may be discharged.

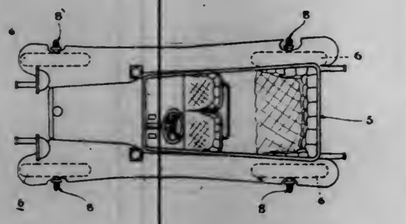
9. A fruit box press comprising a frame having guide members, rods associated with said guide members, a pressure head connected to said rods, toggle links pivoted to said frame and to said rods, flexible members connected to said toggle links for drawing the same inwardly and consequently drawing said rods and the pressure head thereof downwardly, a plurality of coiled springs connected to said frame and to said rods for normally holding the pressure head in an elevated position, operating means whereby to draw said flexible elements inwardly, a tiltable platform supported by said frame, a tripping device for said platform operated by said means, and a locking device associated with said frame.

1,455,305. MEANS FOR CONTROLLING THE REBOUND OF SPRINGS OF VEHICLES. RICHARD POPE, North Sydney, New South Wales, Australia. Filed Mar. 7, 1922. Serial No. 541,638. 4 Claims. (Cl. 267—8.)



1. In a rebound control gear for motor vehicles, in combination, a worm upon the tail shaft, a worm wheel in mesh therewith on a spindle disposed transversely to the shaft, a free wheel clutch on each end of said spindle and means for closing each clutch, on the occurrence of rebound, one through flexible connections with the front part of the car and the other through like connections with the rear part.

1,455,306. HUB CAP ATTACHMENT. CHARLES FRANCIS REILLEY and JOSEPH JAMES LUDWIG, Woonsocket, R. I. Filed June 24, 1921. Serial No. 480,254. 3 Claims. (Cl. 88—1.)

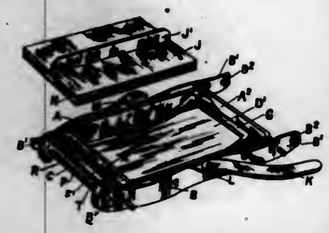


1. The combination with a vehicle having wheels provided with hubs, of cylindrical bodies extending horizontally from said hubs and having their peripheries formed with facets to reflect the light of vehicles approaching from either direction wherebw the lateral extent of the vehicle is indicated, each of said cylindrical bodies being positively rotated with the associated hub whereby the facets are successively presented to the light.

1,455,307. PROCESS OF UNITING METALS. HAROLD A. SOULIS and WILBUR T. SOULIS, New York, N. Y. Filed Aug. 27, 1919. Serial No. 320,223. 11 Claims. (Cl. 113—112.)

1. The process of uniting structural parts of unlike metals having relatively different melting points, consisting in relatively locating the parts and then immersing them in a metallic bath having a substantially constant temperature maintained slightly below the lowest melting point of the metals.

1,455,308. PRINTING FRAME FOR ROLL FILMS. ARNOLD WESLEY STANDFIELD, Sydney, New South Wales, Australia. Filed Dec. 13, 1921. Serial No. 522,088. 3 Claims. (Cl. 95—75.)

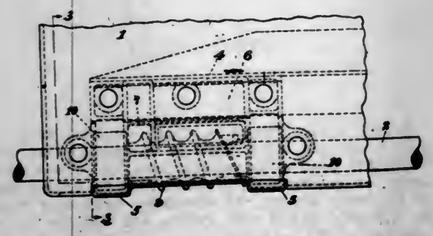


1. A photographic printing frame comprising a box-shaped body having at each end means for rotatably supporting a film spool, a sheet of glass covering one face of the body and spaced from the adjacent edges of its ends so that the film may pass behind the glass from one spool to another, guide rollers at each end of the body to protect the film from scraping contact with the latter, a mask of thin spring material having at one end a normal outward flex, a spring normally pressing the other end of the mask away from the glass, and a releasably spring-pressed back fitting in the body and pressing the mask towards the glass.

1,455,309. PROPULSIVE BLASTING EXPLOSIVE. ARCHIBALD JACKSON STRANE, St. Paul, Minn., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed June 7, 1922. Serial No. 566,555. 5 Claims. (Cl. 52—10.)

1. A propellent blasting explosive consisting of a mixture of black blasting powder and suitably colloided nitrocellulose powder, each in granular form and in which mixture each individual grain is either all black blasting powder or all colloided nitrocellulose powder.

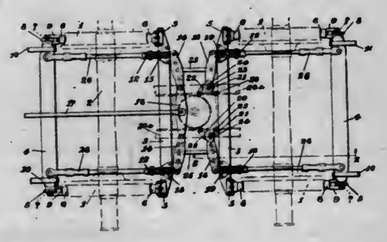
1,455,310. DOOR-OPERATING MECHANISM. JOHN F. STREIB, Avalon, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 6, 1920. Serial No. 422,200. 5 Claims. (Cl. 105—301.)



1. The combination with a hinged discharge door, of a member rigidly secured to the under side of said door,

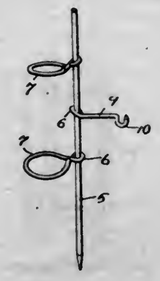
said member having integral spaced shoe portions, a shaft arranged to be moved into and out of the path of said door, a drum on said shaft having spaced rollers, each of said rollers being adapted to engage one of said shoe portions, and a flexible connection from said member to said drum.

1,455,311. BRAKE. JOHN F. STREIB, Avalon, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 8, 1921. Serial No. 443,373. 20 Claims. (Cl. 188—193.)



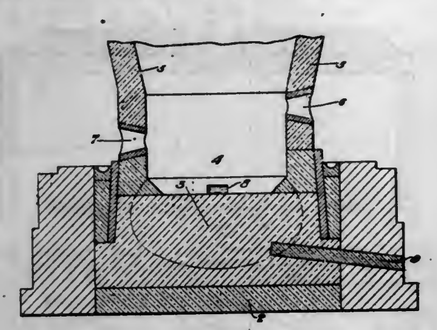
4. In a brake rigging for railway cars, the combination with a car body and a truck, said truck having a plurality of pairs of wheels, of brake beams at both sides of each pair of wheels, the brake beam at one side of one pair of wheels being on a higher horizontal plane than the beam at the opposite side of said pair of wheels, a lever pivotally mounted on the first mentioned beam, a brake head and shoe pivotally mounted on said lever below said beam, said lever above said beam being connected with said truck.

1,455,312. COOKING APPARATUS. NETTIE V. TURNER, New Smyrna, Fla. Filed May 17, 1920. Serial No. 381,845. Renewed July 3, 1922. Serial No. 572,678. 3 Claims. (Cl. 126—30.)



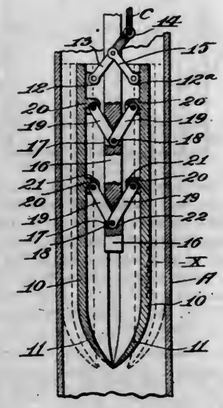
1. A utensil supporting device adapted to be mounted on a stake and comprising a single strand of material having one end bent to provide a utensil support, one end of the strand forming the utensil support being directed laterally of said portion and in the same plane therewith to provide a shank, and the other end of the shank being bent to provide a loop which is disposed at an angle to the plane of the utensil support and shank and which is slightly larger in diameter than the stake.

1,455,313. REMOTION OF BLAST-FURNACE SALAMANDERS. GEORGE W. VREELAND and GEORGE E. WISENER, Steubenville, Ohio. Filed Sept. 1, 1921. Serial No. 497,494. 5 Claims. (Cl. 266—42.)



1. In the remotion of blast furnace salamanders, the step which consists in draining the metal forming the salamander from the furnace hearth through a breach formed in the hearth wall for that purpose before the molten salamander has cooled to solidification.

1,455,314. COMBINED FISHING AND SWAGING TOOL. ALBERT B. WATKINS, Alhambra, Calif. Filed Mar. 17, 1922. Serial No. 544,451. 6 Claims. (Cl. 294-93.)

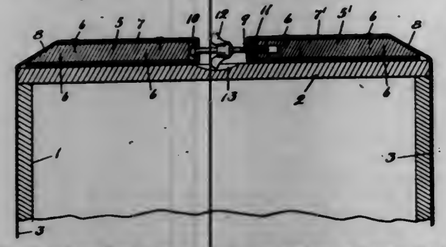


1. In a combined fishing and swaging tool, a pair of elongated channel shaped members arranged parallel with each other and the lower ends of said members being curved inwardly toward each other, and an inclined bail which is directly connected with one of said channel-shaped members and linked to the other of said channel-shaped members.

1,455,315. COMBINATION REINFORCEMENT AND FASTENER. THOMAS CLIFFORD WENTWORTH, Cornish, Me. Filed May 13, 1921. Serial No. 469,161. 2 Claims. (Cl. 217—66.)

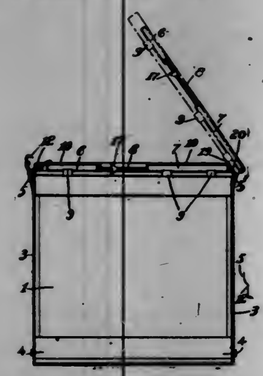
1. A band fastener consisting of a pair of oppositely disposed spaced bearing blocks, to which ends of the band are fastened, covering for said blocks, a bolt having its

head lodged between the covering of one of said blocks and the block itself and having its opposite end entered through the covering of and into the opposite block and a



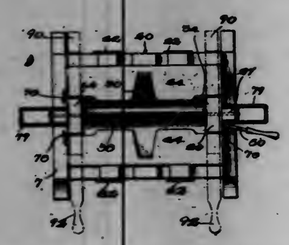
nut on said bolt disposed in the space between said blocks for drawing said blocks towards each other to tighten the band.

1,455,316. COVER FASTENER. THOMAS C. WENTWORTH, Cornish, Me. Filed July 3, 1922. Serial No. 572,628. 8 Claims. (Cl. 217—56.)



1. A cover fastener for a shipping case, comprising a pair of anchoring portions rigidly attached to the sides of the case adjacent the seat for the cover, and an adjustable clamping connection carried by the cover and hinged at one end to one of said anchoring portions to provide a hinge for the cover and adapted to be detachably connected at its opposite end to the other anchoring portion, and means whereby said connection may be adjusted to clamp the cover upon its seat.

1,455,317. CONCRETE-BLOCK MACHINE. WILLIAM A. WHITFIELD, Asheville, N. C. Filed Nov. 22, 1921. Serial No. 517,080. 3 Claims. (Cl. 25—41.)



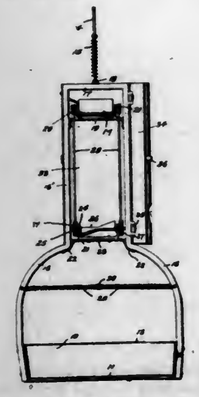
1. A machine for manufacturing concrete blocks comprising a frame having a platform, a pallet mounted on said platform and having a slot, a center plate movable through said slot and having a vertically movable shaft, an operating lever connected intermediate its ends to said shaft and at its forward end to said frame, side and end walls having posts hinged at their lower ends to said frame, collars arranged on said shaft, links establishing connection between said posts and said collars, means carried by said side walls for holding said end walls against outward movement, and a coiled spring mounted on said shaft and providing a yieldable connection between said shaft and the end walls.

1,455,318. COMBINED FORD PRIMER AND CARBURETOR CONTROL. RICHARD THURWALD WOODHEAD, St. Paul, Minn. Filed Mar. 9, 1922. Serial No. 542,459. 2 Claims. (Cl. 137—139.)



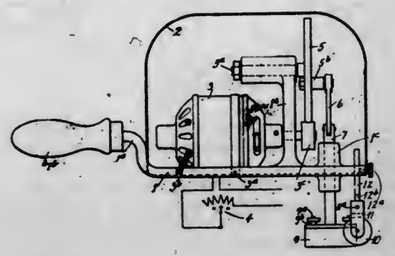
1. The combination of an automobile and an engine, of a carburetor for the engine, an air valve and a fuel regulating valve in said carburetor, a single operating lever adapted to operate both of said valves simultaneously or to operate either valve independently, a member pivotally connected to said lever near one end and provided with separated forwardly extending points at its opposite end adapted to cooperate with the fuel valve to actuate the same upon a rotation of the lever, a casting having a body portion and off set arms extending at right angles thereto provided with apertures receiving said lever by means of which the casting is attached to the lever, said casting having an elongated slot in the body thereof intermediate its ends, a bell crank lever projecting in said slot, and pivotally connected to said body intermediate the ends of the slot therein, and a connection between said bell crank lever and the carburetor air valve.

1,455,319. FLOUR SIFTER. WILLIAM ADELMANN, New York, N. Y. Filed Nov. 27, 1922. Serial No. 603,544. 7 Claims. (Cl. 83—38.)



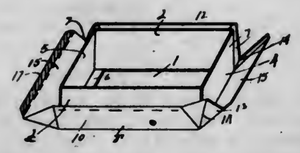
1. In a flour sifter, the combination of a sieve and a holder for the sieve, of means to agitate the sieve, such agitating means including a frame connected to the holder, an eccentric weight journaled in the frame on an axis substantially parallel to the sieve, and means carried by the frame for rotating the weight at relatively high speed.

1,455,320. CHIROPRACTIC ADJUSTMENT MACHINE. ERNEST H. ASHLOCK, San Diego, Calif., assignor of one-fourth to William H. Sweetland and one-fourth to Walter Rittenhouse, both of San Diego, Calif. Filed June 8, 1921, Serial No. 475,874. Renewed February 3, 1923. 7 Claims. (Cl. 125—52.)



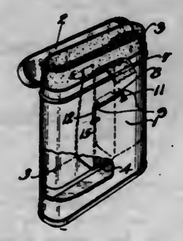
1. A device of the class described, including a supporting frame, a motor mounted on said supporting frame, a friction wheel revolubly mounted on said supporting frame and adapted to engage the drive wheel of said motor, a crank arm extending from said wheel, a connecting rod with one end connected to said crank arm, a plunger reciprocably mounted in said frame and its one end extending below the same and its opposite end pivotally connected to said connecting rod, and a resilient contact member secured to the lower end of said plunger member.

1,455,321. METHOD OF MAKING LOOSE-WRAPPED FOLDING BOXES. GEORGE W. CASE and JOHN WM. ROBERTS, Passaic, N. J. Filed Sept. 23, 1922. Serial No. 589,978. 4 Claims. (Cl. 93—40.)



1. The process of forming a loose wrapped folded box consisting of enclosing a folded box within a wrapper, attaching certain edges of said wrapper to said box and unfolding and refolding said box for the transfer of certain folds in the wrapper from one position to another relative to the sections of the box.

1,455,322. CONTENTS EJECTOR FOR RECEPTACLES. ROBERT W. CHARLTON, Pineville, La., assignor of one-half to August F. Klumpp, Pineville, La. Filed May 18, 1921. Serial No. 470,596. 6 Claims. (Cl. 206—56.)



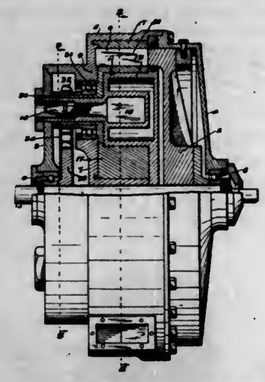
1. The combination with a receptacle, of a carton therein, means passing beneath the carton for lifting the same, and means separate from the lifting means arranged to be positively actuated by a return movement thereof for locking said lifting means in contact with the receptacle in a predetermined elevated position of the carton.

1,455,323. PITTER. HERBERT L. CUMMINS, Owensmouth, Calif. Filed Aug. 25, 1922. Serial No. 584,274. 2 Claims. (Cl. 146—6.)



1. A pitter comprising a shank, blades pivoted on the shank and having free ends of arcuate form with their inner edges sharpened to provide cutting edges, and finger receiving members carried by the blades for actuating the latter.

1,455,324. ROTARY GAS ENGINE. TRAV. CUSHMAN, Anaheim, Calif. Filed Sept. 3, 1920. Serial No. 407,031. 1 Claim. (Cl. 123—13.)

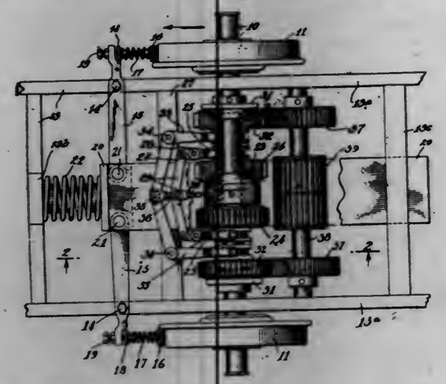


An internal combustion engine including a casing forming an annular chamber, a rotor having a piston movable in said chamber, abutments traversing said chamber and shiftable to permit said piston to pass, inlet and exhaust ports at opposite sides of one of said abutments, the other of said abutments being rotatable, hollow, and provided with a transverse chamber having a port adapted to communicate with said annular chamber at opposite sides of the piston as said abutments shift, and a firing means within said transverse chamber, the latter being arranged to communicate with said annular chamber at its respective ends through successive alinement of said ends with said port in the hollow abutment, so as to permit the passage of a charge contained in said annular chamber from one side of said hollow abutment to the other.

1,455,325. MOMENTUM-OPERATED BRAKE. JOAQUIM COUTINHO DA NOBREGA, New York, N. Y. Filed Sept. 1, 1921. Serial No. 497,557. 4 Claims. (Cl. 188—144.)

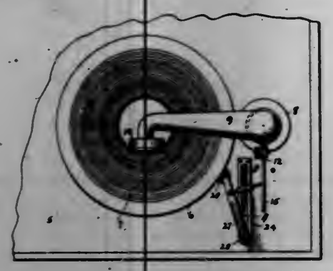
1. The herein described momentum operated brake, in combination with a rotating axle and wheel connected thereto, the brake comprising a friction shoe co-operating with the wheel, a clutch cone fixed to the axle, a clutch member normally loose upon the axle adjacent to the cone, manual means to cause the loose clutch member to engage the cone, the clutch member being provided with spur teeth, an actuator rack lying transverse to and above

the axle and having its teeth meshing with the teeth of the clutch member whereby when the clutch member is rotated from the axle the actuator will be moved in a predetermined direction, auxiliary means adapted to act upon the rack to cause it to move in the same predeter-



mined direction when the wheel and axle are rotated in the opposite direction from that first indicated, and lever means between the actuator and the friction shoe to cause the latter to engage the wheel with the force proportional to the force applied to the actuator irrespective of the direction of movement of the machine.

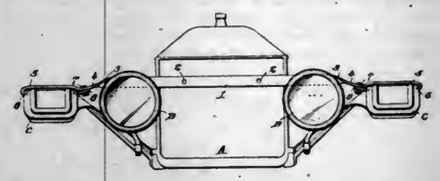
1,455,326. AUTOMATIC STOP FOR PHONOGRAPHS. GEORGE W. EICHELBERGER, Jr., Goose Creek, Tex. Filed Oct. 13, 1921. Serial No. 507,480. 3 Claims. (Cl. 192—121.)



1. In a talking machine brake in combination with the tone arm of a phonograph, a split clamp and a vertically adjustable slotted arm carried thereby detachably connected to the tone arm, a resiliently held lever arm pivotally connected to the slotted arm, a pivoted brake member adapted to frictionally engage the periphery of a turntable and a slidably adjustable push rod interposed between the lever arm and the brake member, whereby the braking operation is affected by the movement of the tone arm in timed relation with a phonograph disk.

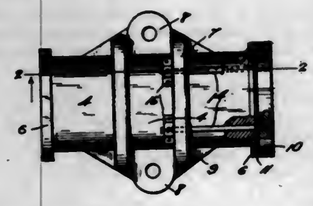
1,455,327. FENDER BRACE. CARL J. FANGEL, McAlester, Okla. Filed May 8, 1922. Serial No. 558,908. 1 Claim. (Cl. 280—152.)

A fender brace comprising an elongated bar including an intermediate body portion and curved fender engaging terminals, the extremities of the intermediate body portion being inclined to dispose the terminals on a plane below the plane of the intermediate body portion, the inclined portion being twisted to lie in a plane at right angles to the intermediate body portion, and normally curved, spring metal plates pivotally mounted on the



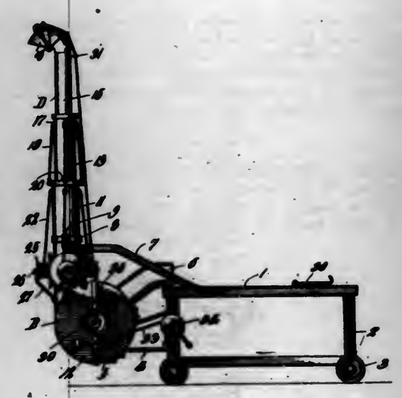
inclined portion and engageable beneath the inner edges of the fenders, said plates being channeled to embrace the inclined portion.

1,455,328. ADJUSTABLE BEARING. ELMER L. FEESE, Plevna, Kans. Filed Jan. 5, 1922. Serial No. 527,140. 3 Claims. (Cl. 64—55.)



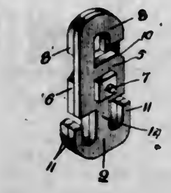
1. A bearing section comprising a body portion having a passage opening at one end into the end of the body and at its opposite end into the periphery of the body, a face plate associated with an end of the body and having an opening therein to aline with the passage in the body, and a bolt extended thru the passage in the body and opening in the face plate and having its head arranged at the periphery of the body.

1,455,329. BLOWER FOR SILOS. ELMER G. FIPPENGER, Nekoosa, Wis. Filed Feb. 17, 1922. Serial No. 537,340. 2 Claims. (Cl. 302—17.)



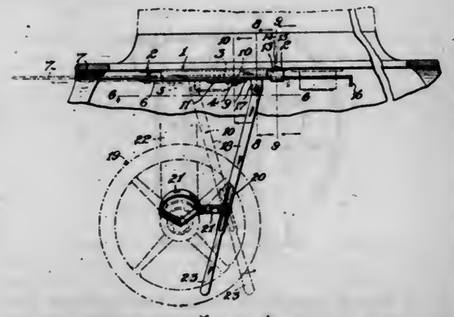
1. In combination, a fan casing comprising a pair of sections, a support, one of said sections fixed to said support, a discharge pipe, the other of said sections fixed to said discharge pipe, and means whereby said discharge pipe may be rotatably mounted on said support in the manner and for the purpose specified.

1,455,330. CABLE HANGER. RILEY FORDYCE, Dixon, Ill. Filed Aug. 29, 1922. Serial No. 584,070. 3 Claims. (Cl. 24—242.)



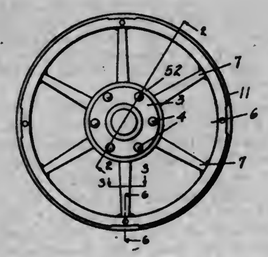
2. A cable hanger of the class described comprising a pair of superimposed identically constructed hook members, pivoted intermediate their ends, each of said members comprising a substantially square shaped body portion, a J-shaped hooked member integrally connected to one side of said body member, and a T-shaped member made integral with the other end of said body member.

1,455,331. DIRECTION INDICATOR FOR VEHICLES. RAFFAELE FRANCO and GIUSEPPE ESTER, Newark, N. J. Filed July 21, 1922. Serial No. 576,426. 3 Claims. (Cl. 116—50.)



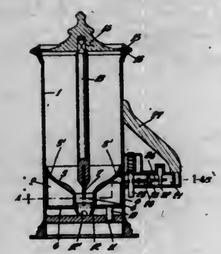
1. In a vehicle signal, the combination of an indicator adapted to be projected laterally from a vehicle, an operating lever, means for fulcruming said lever upon the inclined steering post of a vehicle so as to swing in a horizontal plane with one end of itself adjacent the lower part of the rim of the steering wheel, and means connecting the other end of the lever to said indicator to project and retract the same as the lever is swung.

1,455,332. DISK WHEEL. WILLIAM A. GIBSON, Detroit, Mich. Filed May 27, 1922. Serial No. 564,084. 3 Claims. (Cl. 301—64.)



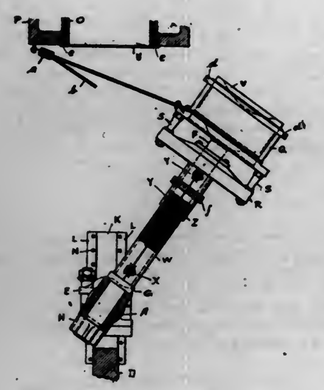
1. In a disk wheel, the combination of a hub with suitable flanges, a web for the wheel made up of sheet metal sections, seamed joint members therebetween formed of sheet metal with an inturned and outturned portion to form grooves at each side to retain and engage the edges of the said sections, filler disks between the hub flanges to embrace the inner ends of the said wheel, and a fixed rim riveted to the outer flange of the said wheel, all substantially as described.

1,455,333. RECEPTACLE FOR MUSTARD AND OTHER CONDIMENTS. ALFRED JOHN GREAVES, Peckham Rye, London, England. Filed Feb. 27, 1922. Serial No. 539,704. 5 Claims. (Cl. 65—20.)



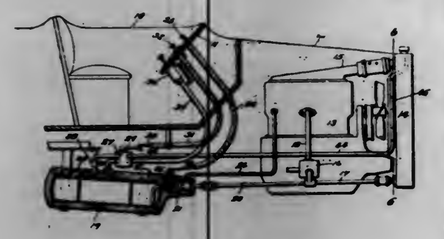
1. A receptacle for mustard and other condiments having a mixing chamber provided with orifices and located in the receptacle and means for simultaneously introducing by suction and ejecting quantities of mustard into and from the chamber through the said orifices.

1,455,334. CROSSHEAD DESIGN FOR RECIPROCATING ENGINES. REINHARD HILDEBRAND, Webster Groves, Mo., assignor of one-half to George D. Pogue, Philadelphia, Pa. Filed Apr. 8, 1919. Serial No. 288,618. 1 Claim. (Cl. 121—194.)



In a machine of the character described, a cylinder, an extension at the lower end of said cylinder detachably connected to same, a piston that operates in said cylinder, a reciprocating cross head, a piston rod that rigidly connects said cross head to said piston, parallel guides arranged adjacent the opposite ends of said cross head, slide shoes in said guides, said crosshead being pivotally mounted on said slide shoes, and a removable means mounted on said piston rod for sustaining said cylinder extension after it has been disconnected from the cylinder.

1,455,335. THERMO SYSTEM FOR INTERNAL COMBUSTION ENGINES. WALTER B. INGRAM, St. Louis, Mo. Filed Sept. 13, 1919. Serial No. 323,514. 6 Claims. (Cl. 123—174.)



6. In combination with a motor vehicle provided with an engine having a cooling system embodying a radiator, said motor vehicle being also provided with a dashboard, a storage tank, a pump for the cooling fluid, said pump being connected with the radiator and also connected with the storage tank, a valve for closing the connection between the pump and storage tank, a second connection between the radiator and tank to permit the discharge of vapors from said radiator, a pump operated from the dashboard and having a connection with the tank, and a controlling valve operated from said dashboard, said controlling valve operating to control the circulation of air from the pump said controlling valve further operating to control the circulation of vapor from the radiator.

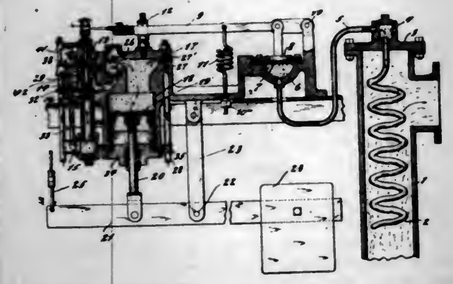
1,455,336. CONVEYER MECHANISM. RICHARD S. JACOBSEN, Chicago, Ill., assignor, by mesne assignments, to Webster Mfg. Co., a Corporation. Filed Mar. 12, 1919. Serial No. 282,094. 12 Claims. (Cl. 83—56.)



1. In a conveyer mechanism, the combination of two superposed substantially horizontally disposed conveyer receptacles, means for simultaneously reciprocating said receptacles in different directions with a non-uniform movement, and separate compartments rigidly connected with said conveyer receptacles for conveying the refuse pickings in opposite directions.

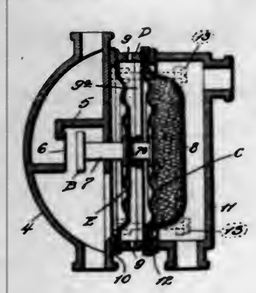
1,455,337. REGULATING DEVICE. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Dec. 14, 1916, Serial No. 136,832. Divided and this application filed Sept. 4, 1918. Serial No. 252,551. 12 Claims. (Cl. 236—86.)

8. In a device of the class described, a valve, a pressure-actuated device, connections between the valve and said device arranged to open the valve when the pressure on said device has reached a predetermined amount, means to hold the valve on its seat, and valve closing means independent of the means to hold the valve on its seat and operative only when the valve is open, to exert



a closing pressure on said valve substantially equal to the frictional resistance of the connections between the valve and the pressure-actuated device.

1,455,338. HEATING SYSTEM. EDWIN A. JONES, St. Louis, Mo. Filed May 21, 1920. Serial No. 383,153. 4 Claims. (Cl. 236—40.)

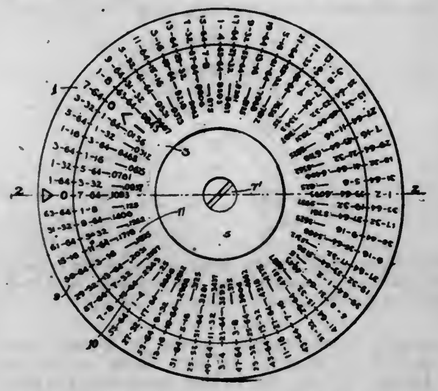


1. A heating system, comprising heat radiating elements, each of which is provided with an inlet and an outlet, a packless valve associated with the inlet of each heat radiating element, a heat operated governing device associated with the outlet of each heat radiating element and combined with said valve in such a way as to form a unitary structure, means actuated by said governing device for positively actuating the movable part of the valve that controls the supply of the heating medium to the heating element, and means for preventing said heat operated governing element from being affected by the heat of the heating medium supplied to the heat radiating element through said inlet.

1,455,339. CIRCULAR SLIDE RULE. JOSEPH F. KELLER, New York, and FRANCIS J. BADGE, Woodhaven, N. Y., assignors to Keller Mechanical Engraving Co., Brooklyn, N. Y., a Corporation of New York. Filed July 1, 1920. Serial No. 393,346. 5 Claims. (Cl. 235—88.)

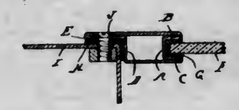
1. A device of the character described, comprising a flat rim having a portion of reduced thickness along its inner edge, two disks having their peripheral portions out of mutual contact and rotatably seated on opposite faces of said reduced rim portion, the exposed faces of said peripheral portions being substantially flush with the outer portions of said rim, the central portions of said disks being offset toward each other and in mutual contact, and the exposed faces of the disks being formed with central depressions or sockets, finger pieces seated in said sockets and themselves provided with repressions or recesses in

their exposed faces, and a clamping center pin comprising a headed tubular internally threaded member extending centrally through said disks and finger pieces, and a



headed screw fitted into said tubular member, the heads of said member and of said screw being located in the recesses of the respective finger pieces.

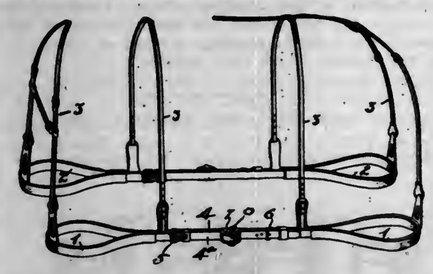
1,455,340. WINDOW FRAME. HOMER G. KELLOGG, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,665. 1 Claim. (Cl. 296—93.)



A window frame for motor vehicles comprising side and end rails, each of said rails being formed from sheet metal and having a longitudinally extending portion for receiving an edge of a transparent element, said longitudinally extending portion being U shape in cross-section, each rail also having rearwardly extending portions bent close upon the sides of said longitudinally extending portion and forming spaced parallel walls, one of said walls having a portion bent at right angles and abutting the other wall intermediate the ends thereof, the first mentioned wall also having a portion extending at right angles from the angular extending portion aforesaid and extending longitudinally of the other wall to the end thereof in contacting relation, the longitudinally extending contacting portions being provided with registering apertures for the passage of devices for securing the body of said vehicle to said frame.

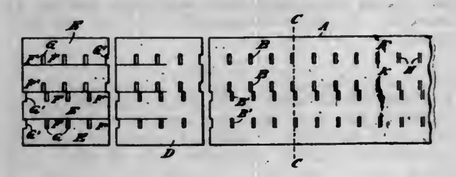
1,455,341. HOPPLE. JOSEPH B. KOPF, Rockville Center, N. Y. Filed July 12, 1922. Serial No. 574,513. 2 Claims. (Cl. 54—71.)

2. In a hopple harness, two leg loops with a two-part adjustable strap connection between the front and rear leg loops and including at least one buckle to permit said strap connection to be lengthened or shortened, and clamping means located intermediate the length of said two-part strap connection for pinching said two parts of said connection tightly together in the event of heavy strain thereon, to relieve the strain on that part of said strap connected to said buckle, said clamping means comprising a loop having an intermediate cross bar, through which loop and over which bar one part of said strap is passed, and a swinging U-shaped member pivoted to said loop, the other part of said strap being secured to said member, whereby excessive strain tending to slide one part of said strap on the other will cause said U-shaped member to



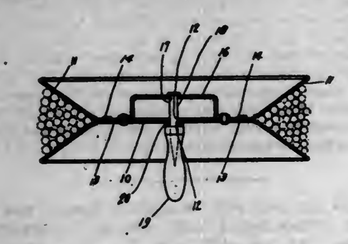
swing toward the loop, to press the two parts of said strap connection into tight surface engagement for the purpose described.

1,455,342. METHOD OF MAKING SHINGLE STRIPS. SAMUEL M. LANGSTON, Wenonah, N. J. Filed May 31, 1922. Serial No. 564,682. 9 Claims. (Cl. 164—17.)



1. The method of forming a plurality of non-symmetrical substantially identical shingle strips, each strip having a row of tabs or projections along one longitudinal edge and of uniform width and adapted to simulate individual shingles and separated by open-ended slots, one of said tabs or projections having a side edge at one end edge of the strip and one of said slots being open at its side at the other end of the strip, which method consists in performing in a suitable order the steps of slotting the sheet, slitting it lengthwise and cutting it transversely, the distance between the longitudinal slits being equal to the width of the strip, the distance between the transverse cuts being equal to the length of the strip, each transverse cut being straight and extending the full width of the sheet and the slots being so positioned transversely of the sheet that each slot has one end registering with a lengthwise slit in the sheet and the slots being so positioned lengthwise of the sheet that one or more of the slots lie at one side of and open into a transverse cut and one or more other slots lie at the opposite side of and open into the same transverse cut.

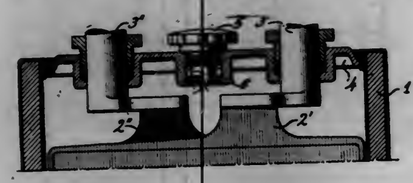
1,455,343. WASHLINE REEL. GEORGE J. LEBER, Cleveland, Ohio. Filed July 15, 1921. Serial No. 484,916. 10 Claims. (Cl. 242—100.)



4. A clothes line reel comprising two members, each member consisting of a base portion and an inclined an-

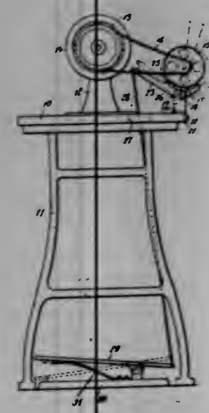
nular flange portion, said members being oppositely disposed with their bases abutting, means for securing the base portions of said members together, a bail rigidly secured to the face of the base portion of one of said members and a handle rotatably mounted on the face of the base portion of the other member.

1,455,344. VENT PLUG FOR STORAGE BATTERIES. LAMAR LYNDON, New York, N. Y. Filed Sept. 7, 1921. Serial No. 499,052. 13 Claims. (Cl. 204—29.)



1. In an enclosed storage battery having a filler opening, venting means, including a solid vent plug and an expansion chamber between the surface of said filler opening and said vent plug.

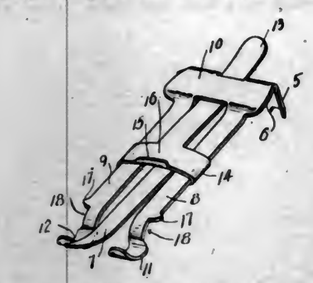
1,455,345. MOUNTING FOR SEWING-MACHINE MOTORS. HYMAN MAIMIN, New York, N. Y. Filed Jan. 8, 1920, Serial No. 350,243. Renewed Oct. 6, 1922. Serial No. 592,845. 10 Claims. (Cl. 64—52.)



1. In a sewing machine mounted upon a table and provided with a driving wheel, the combination of a support adapted to be selectively attached to either face of the table, a motor mounted to swing about an axis on the support and be held in operative relation to the wheel of the machine by its own weight in either position of the support, and means mounted on the support and adapted to be brought into engagement with the motor in either position thereof to lift it out of operative relation to the wheel of the machine.

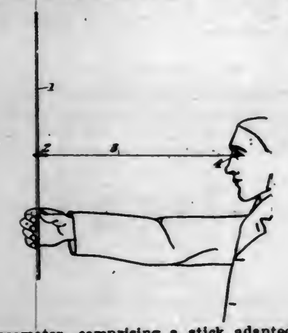
1,455,346. GAUGE PIN. EDWARD L. MEGILL, New York, N. Y. Filed Oct. 5, 1921. Serial No. 505,479. 4 Claims. (Cl. 101—415.)

4. In a work positioning member for printing presses, an elongated support, a tongue slidably mounted on said support for projection to various extents over the work, said tongue being provided with laterally extending hook



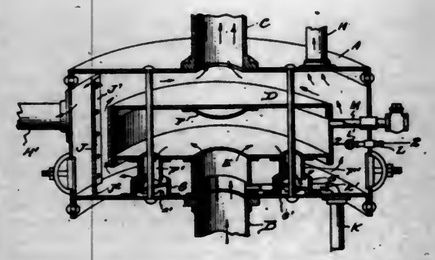
members for engaging the lateral edges of the support, and said tongue member being bowed between said hook members for the purpose described.

1,455,347. HYPSOMETER. ROBERT G. MERRITT, New York, N. Y. Filed Feb. 11, 1913. Serial No. 747,755. 1 Claim. (Cl. 33—64.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



A hypsometer, comprising a stick adapted for use in vertical position and having marked upon it graduations, the distance between any two of which is the same, and a device for determining the proper distance at which the instrument is to be held from the observer when in use, comprising a ring to be slipped over the stick and a cord attached at one end to said ring and having a knot at a predetermined distance from its other end.

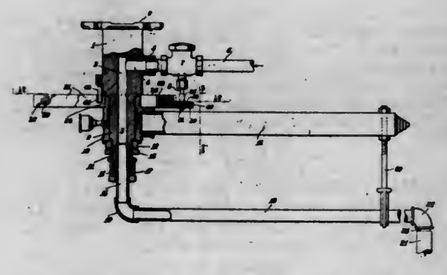
1,455,348. OIL SEPARATOR. HENRY E. MOFFAT, Highland Park, Mich., assignor of one-sixth to George W. Marshall, one-sixth to George L. Marshall, and one-sixth to Gaylord L. Marshall, all of Dayton, Ohio. Filed Oct. 31, 1921. Serial No. 511,658. 4 Claims. (Cl. 183—5.)



1. In an oil separator, a casing having an exhaust steam inlet and outlet, and oil separating means within

said casing, said casing having a cylindrical wall and a live steam pipe entering said casing and having a head within the casing discharging at an acute angle against said wall whereby the curved surface of said wall deflects the steam without detrimental effect upon said wall.

1,455,349. VEHICLE WASHER. EDWARD MULLER, North Bergen, N. J. Filed May 17, 1919. Serial No. 297,720. 16 Claims. (Cl. 209—81.)

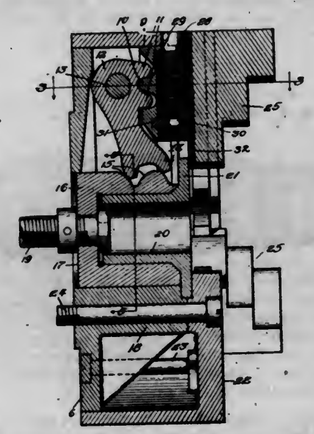


1. The combination with a support having a valved water supply and a movable delivery pipe, of a valve-controlling member movable with said delivery pipe for a part only of the full extent of the movement of the latter to open and close the valve of the water supply.

1,455,350. CLEANING COMPOSITION. MORRIS Y. NEEDLE, Washington, D. C., assignor of one-half to MAX MOSKOWITZ, Washington, D. C. Filed Nov. 16, 1921. Serial No. 515,593. 3 Claims. (Cl. 87—5.)

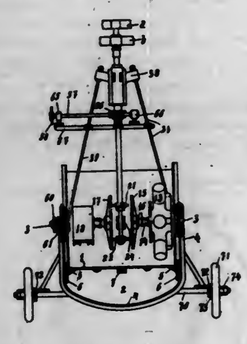
1. A cleaning composition comprising zinc oxide, aqua ammonia, magnesium carbonate, and neat's-foot oil.

1,455,351. CHUCK. JOHN A. OLSON, Chicago, Ill., assignor to The S-P Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 20, 1918. Serial No. 235,629. 12 Claims. (Cl. 279—119.)



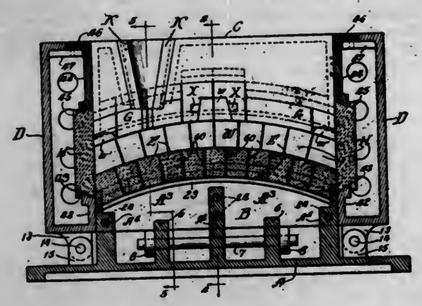
1. A chuck comprising a solid back plate having a central apertured projection, pairs of radially arranged ribs extending outwardly from said projection, a longitudinally slidable cam member mounted in said aperture, bell-crank levers pivotally mounted between the ribs and having their inner ends engaging with the cams on said cam member, guideways formed in said ribs, and slidable clamping members mounted in said guideways and engaging with the opposite ends of said levers and adapted to be reciprocated thereby.

1,455,352. HELICOPTER. ALBERTUS OVERBEEK, Weltevreden, Java, Dutch East Indies. Filed Dec. 1, 1921. Serial No. 519,116. 4 Claims. (Cl. 244—19.)



1. In a helicopter having two propellers rotating in opposite direction and arranged one above the other on concentric shafts for giving the hull ascending as well as horizontal propelling movement, friction discs mounted directly on the propeller shafts, a single friction disc for engaging and driving the discs on the said shafts, means for adjusting the relative positions of the discs during the rotation to vary their relative speeds, and means whereby the propeller shafts can be inclined in the forward and the rearward direction of the apparatus.

1,455,353. CASTING MOLD. CLIFTON D. PETTIS, New York, N. Y. Filed Mar. 2, 1923. Serial No. 622,262. 32 Claims. (Cl. 22—136.)

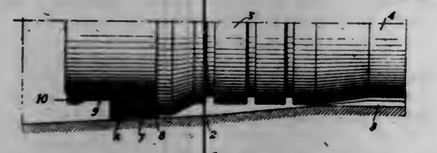


1. A casting mold having a molding receptacle comprising a plurality of blocks of refractory material, said blocks being spaced apart to permit the expansion of the blocks, the spaces between the blocks being of such width as to prevent the passage of molten metal therethrough while allowing for the escape of gases from said metal.

1,455,354. PROJECTILE. WINFIELD P. PORTER, New York, N. Y. Filed May 28, 1918. Serial No. 237,021. 9 Claims. (Cl. 102—40.)

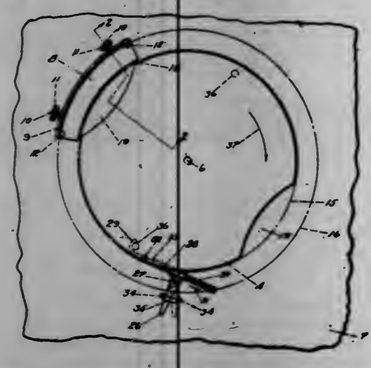
2. A projectile having the usual rotating band surrounding the same, a sealing ring of relatively soft elastic

material surrounding the body of said projectile and disposed rearwardly of said rotating band, said sealing ring



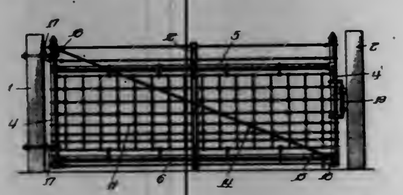
being movable along the body of the projectile into engagement with or away from said rotating band.

1,455,355. PHONOGRAPH TURNTABLE. JOHN J. REINHOLD, Marietta, Pa. Filed Apr. 6, 1922. Serial No. 550,237. 6 Claims. (Cl. 274—1.)



1. In combination with a phonograph turn-table, a center pin on the turn-table, and a gauge fixed stationary near the rim of said turn table and adapted to guide a record to engage with said pin.

1,455,356. ADJUSTABLE GATE. RIAL T. ROLFE, deceased, late of Harvey, Ill., by Olive Rolfe, executrix, Harvey, Ill., assignor to Rolfe Iron Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1921. Serial No. 484,810. 2 Claims. (Cl. 39—80.)



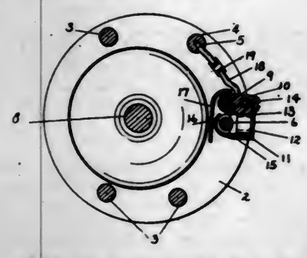
1. A gate construction including post members and tubular rail members, the latter having their ends bifurcated to form parallel arms engaging opposite sides of the post members, connection members having parts embracing tubular portions of the rails and paralell portions overlying and contacting said parallel arms, fastening means rigidly connecting the connection members to said tubular portions of the rail members and pivot bolts seated in the post members and passing through the parallel arms and the overlying portions of the connection members, said bolts serving as connections for the rail and post members and cooperating with said fastening means to maintain the connection members in contact with the parallel arms of the rail members.

1,455,357. BUTTON. FREDERICK N. ROSS, Detroit, Mich., assignor to Button Attaching Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 26, 1922. Serial No. 596,964. 6 Claims. (Cl. 24—90.)



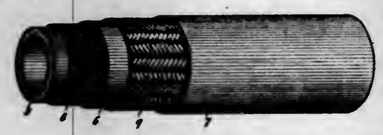
1. The method of constructing a button of the type specified, comprising the forming of a shallow cupped metal back and punching the centre, the forming of a wire eye with the ends passed through the centre opening and turned over against the inside of the back of the metal shell and the spreading and flattening of the ends by the use of pressure in the presence of relatively great heat.

1,455,358. FISHING REEL. SAMUEL G. RUSSELL, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich. Filed Dec, 12, 1921. Serial No. 521,744. 6 Claims. (Cl. 242—84.4.)



3. In a fishing reel, the combination of a frame, a spool, a traversing shaft, a carriage slide rod disposed adjacent and parallel to said traversing shaft, a line guide carriage slidable on said rod and provided with a pawl socket open at its outer end, a pawl disposed in said socket to coact with said shaft, a clip member mounted on said carriage to retain said pawl in said socket and provided with an arm projecting at the rear of the traversing shaft but normally out of contact therewith, and a line guide member on said carriage.

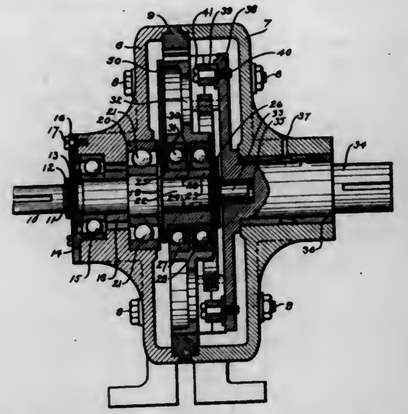
1,455,359. HOSE. ERNEST SCHULTHESS, South Orange, N. J. Filed Sept. 28, 1921. Serial No. 503,936. 2 Claims. (Cl. 137—90.)



1. A hose comprising an inner layer of vulcanized rubber and an outer layer of vulcanized rubber, layers of seamless circular woven and seamless braided fabrics between said inner and outer vulcanized rubber layers, respectively, and a cushioning layer of vulcanized rubber between said layers of fabrics.

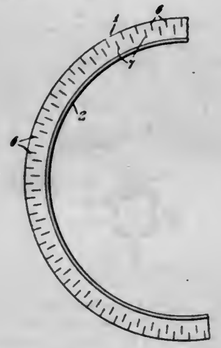
1,455,360. REDUCTION GEARING. WILLIAM E. SHARKEY, Middletown, Ohio. Filed Oct. 10, 1921. Serial No. 506,592. 4 Claims. (Cl. 64—89.)

1. In a reduction gearing, the combination with a rotatable gear member having blocks thereon, of a power transmission ring having notches wherein said blocks are positioned, anti-friction rollers between the blocks and the sides of said notches, said ring also having other notches therein, a driven shaft having a yoke provided



with engaging blocks positioned in the last mentioned notches, and anti-friction rollers between the last mentioned blocks and the sides of the last mentioned notches.

1,455,361. SOLID ELASTIC TIRE FOR ROAD VEHICLES. JOHN F. SIPE, New York, N. Y. Filed Jan. 2, 1923. Serial No. 610,090. 10 Claims. (Cl. 152—1.)



2. A solid elastic tire provided with a multiplicity of radial cuts or incisions all around the tire and beneath the tread surface thereof, the cuts or incisions extending outwardly far enough to divide the tire into tread sections after its original tread portion has worn off.

1,455,362. NECKTIE. JOHN A. SODERSTROM, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,803. 5 Claims. (Cl. 2—82.)



1. In a neck tie the combination with a body portion of cloth and a metallic foundation comprising a rigid member and an elastic spring member, means for securing the said rigid and elastic spring members together, means for retaining the body portion of the tie in position on the foundation, and means for detachably connecting the free extremities of the tie body to the free ends of the elastic member of the foundation.

1,455,363. PROCESS OF PURIFYING WATER. ARTHUR C. SPENCER, Washington, D. C., assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1916. Serial No. 130,230. 7 Claims. (Cl. 210—24.)

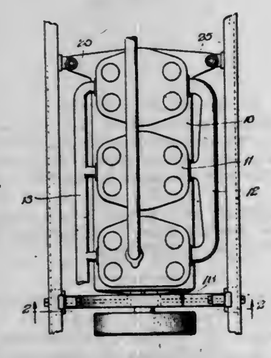
1. The process of purifying water which comprises passing such water through a granular bed comprising greensand until the activity of such greensand is diminished, thereafter revivifying said bed by passing therethrough a solution adapted to react upon the impurities removed in the first operation, washing the bed and once more employing it for the treatment of water.

1,455,364. METHOD OF MANUFACTURING INNER TUBES. RALPH E. STEPHENSON, Indianapolis, Ind., assignor to G. & J. Tire Company, a Corporation of Indiana. Filed Sept. 3, 1921. Serial No. 498,286. 2 Claims. (Cl. 154—14.)



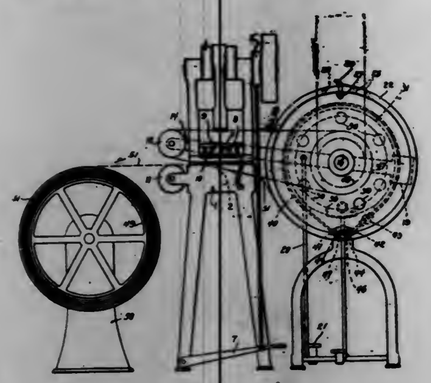
1. A method of making inner tubes for pneumatic tires which consists in forming a tube from vulcanizable rubber composition, rolling a sheet of vulcanizable rubber composition about a pole, making a laminated reinforcing valve-base of superposed plies of fabric successively varied in size to form a skived margin, aperturing the reinforcing valve-base centrally, securing the reinforcing valve-base to the formed composition tube with its widest ply outermost, introducing a flanged sleeve in the opening in the reinforcing valve-base and holding it in place, curing the tube thus formed, removing the flanged sleeve and splicing the ends of the tube.

1,455,365. AUTOMOBILE ENGINE SUSPENSION. CHARLES A. TILT, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 465,055. 7 Claims. (Cl. 180—64.)



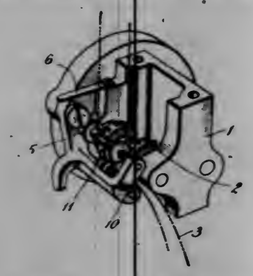
1. In combination, an engine base, a frame member, a bracket attached to said frame member, a trunnion rotatably and slidably engaging said bracket, and means for forming a pivotal connection between said trunnion and said engine base.

1,455,366. CUTTING AND LENGTH-GAUGING MACHINE. GEORGE TILTON and ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignors to Morgan & Wright, a Corporation of Michigan. Filed Sept. 22, 1920. Serial No. 411,916. 10 Claims. (Cl. 164—49.)



1. In a cutting and gauging machine, in combination, shearing mechanism, a rotatable drum, means on the drum for securing one end of the strip to be cut, and means for holding the drum with the secured end of the strip a predetermined distance from the shearing mechanism.

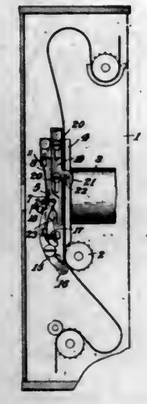
1,455,367. FILM GUIDE FOR MOTION-PICTURE MACHINES. THEODORE F. UHLEMANN, New York, N. Y., assignor to Nicholas Power Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 3, 1920. Serial No. 386,145. 4 Claims. (Cl. 88—17.)



1. In a motion picture apparatus, the combination of a film-feeding sprocket below the projector aperture, and a pair of freely rotatable disks supported in position to engage the edges of the film at the point where the sprocket teeth enter the holes in the film, said disks being spaced apart a distance equal to the width of the film and yieldingly held against lateral displacement to maintain the sprocket holes in alinement with the path of movement of the sprocket teeth.

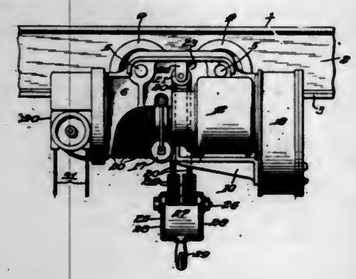
1,455,368. TENSION DEVICE FOR MOVING-PICTURE MACHINES. THEODORE F. UHLEMANN, Glen Morris, N. Y., assignor to Nicholas Power Company, Inc., New York, N. Y., a Corporation of Delaware. Filed July 2, 1920. Serial No. 393,604. 9 Claims. (Cl. 88—17.)

1. In a tension device for moving picture machines the combination of an aperture plate having a film-guiding surface, a cooperating member mounted for movement toward and from said surface, tension shoes carried by said member engaging the film at the aperture, an intermittent sprocket adjacent said aperture plate for advancing the film through the machine, a guide for holding the film in contact with the sprocket, said guide being supported on said cooperating member, and means



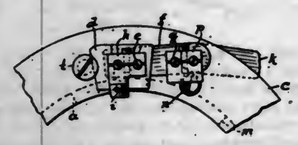
for holding said guide out of engagement with the sprocket until said gate is moved into closed position and subsequently causing it to engage the sprocket.

1,455,369. HOIST. HERBERT S. VALENTINE, Philadelphia, Pa. Filed Jan. 31, 1922. Serial No. 532,985. 6 Claims. (Cl. 212—131.)



1. In a mono-rail hoist the combination of an overhead mono-rail track, a carriage depending therefrom and adapted to travel on the lower flange thereof, a load-block and means mounted on said carriage to raise and lower said block in a vertical path directly under said track to and from a position wherein the top of said block is immediately below but out of contact with the under side of said track, no rigid part of said carriage or the parts carried thereby depending below said track a distance substantially greater than the height of said block.

1,455,370. CIRCULAR-KNITTING MACHINE. ROBERT W. WALTON, Philadelphia, Pa. Filed Sept. 17, 1921. Serial No. 501,316. 7 Claims. (Cl. 66—22.)



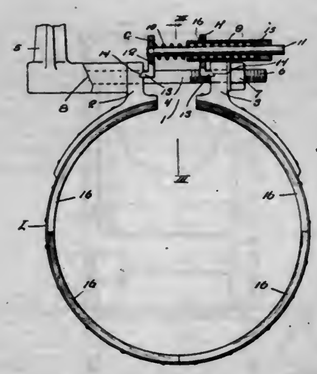
7. In a circular knitting machine, means for knitting a loose course comprising a movable stitch cam and an arm for depressing said stitch cam, a movable guard cam, and a cam on said arm for depressing the guard cam when the stitch cam is depressed.

1,455,371. HOOD LATCH. JOHN F. WHITE, Chicago, Ill., assignor to White Products Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 3, 1921. Serial No. 434,859. 19 Claims. (Cl. 292—60.)



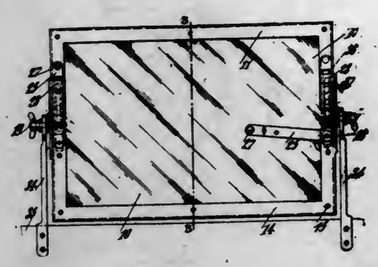
1. In a device of the character described, the combination with a frame portion and an engine hood movable thereto, of an axially reciprocal hood latch pivotally attached to the outside of the hood and projecting obliquely downwards through an aperture in the same into the interior thereof, an operating handle provided on the latch adjacent the exposed upper extremity of the same, and a keeper fixedly secured in the interior of the hood to said frame portion and adapted to cooperate with the lower extremity of the hood latch.

1,455,372. BRAKE-BAND-CONTROL MECHANISM. ROBERT WICK, Woodridge, N. J. Filed Apr. 9, 1921. Serial No. 459,823. 9 Claims. (Cl. 188—249.)



5. In a device of the class described, the combination with a brake band having the usual ears thereon, and having an operating rod extending between said ears for drawing said ears together, of a coil spring for urging said ears apart, said spring extending longitudinally in substantially the same direction as said operating rod, and being of greater length than the distance between said ears, and means operatively connecting said spring with said ears.

1,455,373. FRAME FOR SUPPORTING TRANSPARENT PLATES. AUGUST WOLFF, New York, N. Y. Filed Mar. 21, 1922. Serial No. 545,549. 4 Claims. (Cl. 296—90.)



1. In a wind shield, the combination with a sectional frame, of a plate of flexible material engaged within said frame, a pair of hinges extended obliquely outward from the shorter sides of said frame whereby the sections may be folded, and levers secured to said frame sides adapted to hold the frame rigidly when in an extended position.

1,455,374. DENTAL LANCET FOR SURGICAL TREATMENT OF PYORRHEA. WILLIAM ZIESEL, Philadelphia, Pa. Filed Aug. 4, 1921. Serial No. 489,027. 1 Claim. (Cl. 32—10.)

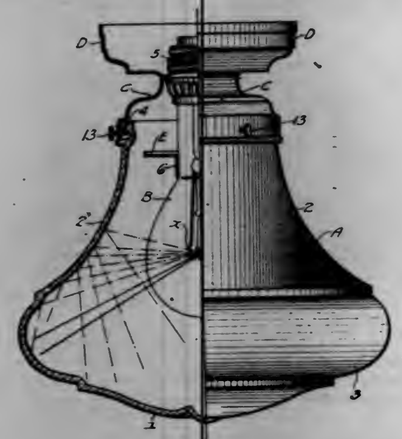


An instrument for the purpose described, consisting of a blade formed of tempered spring steel and a handle therefor, said blade being deflected from said handle at a suitable angle thereto and having a sharp double cutting edge terminating in a thin paper-like flat point adapted to cut or divide the tissue in two opposite directions at one and the same time automatically or in either direction at the will of the operator and being thin and elastic throughout the length of said edge, regaining its shape instantly and automatically upon release of pressure.

1,455,375. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Aug. 30, 1920. Serial No. 406,800. 1 Claim. (Cl. 240—78.)

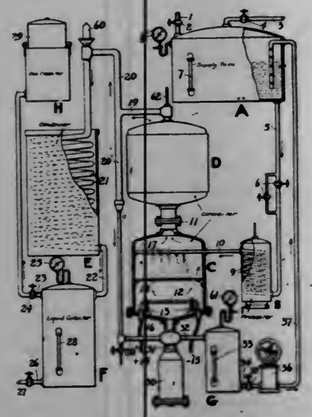
A lighting fixture, comprising an electric lighting unit, and a light reflecting and diffusing member surrounding said lighting unit and composed of a substantially bell-shaped translucent upper portion whose lower end terminates below the horizontal plane in which the filament

of the lighting unit lies, a translucent bottom portion arranged under the lighting unit, and a translucent band



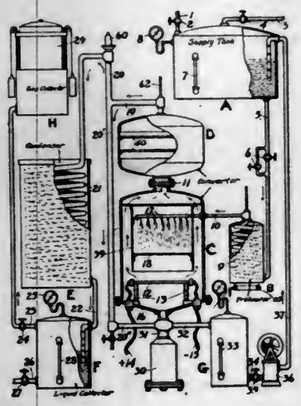
or belt portion of substantially concavo-convex shape in vertical cross section arranged between said upper and bottom portions and integrally connected to same.

1,455,376. PROCESS OF CONVERTING OILS. JOSEPH H. ADAMS, Flatbush, N. Y., assignor to The Texas Company, Houston, Tex., a Corporation of Texas. Filed Dec. 29, 1917. Serial No. 209,475. 9 Claims. (Cl. 196—25.)



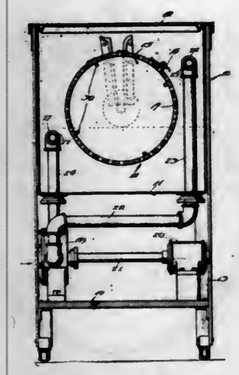
5. A continuous process of the nature disclosed for transforming high boiling hydrocarbon oils into lower boiling products consisting in preheating oil to a temperature below vaporization, continuously atomizing and spraying it downwardly under pressure into a chamber and against an element in said chamber heated to a cracking temperature, spraying superheated steam into said chamber continuously towards said heated element, passing the vapors generated upward through an enlarged vapor dome whereby unconverted portions will flow back to the vicinity of said heated element, passing vapors from said dome through a condenser in open communication therewith and maintaining substantially the same superatmospheric pressure throughout the operation in said chamber, dome and condenser.

1,455,377. OIL-CONVERTING APPARATUS. JOSEPH H. ADAMS, Flatbush, N. Y., assignor to The Texas Company, Houston, Tex., a Corporation of Texas. Filed Dec. 29, 1917. Serial No. 209,476. 14 Claims. (Cl. 196—3.)



1. In an oil treating apparatus, the combination with means for spraying oil in atomized or finely divided form into a closed chamber under pressure, means disposed outside said chamber for preheating the oil to a comparatively high temperature below vaporization, a heating member within the chamber adapted to subject the compressed atomized oil to a cracking temperature, and means for condensing converted vapors under superatmospheric pressure.

1,455,378. WASHING MACHINE. OGLESBY ALLEN, Jr., Chicago, Ill. Original application filed Mar. 14, 1919. Serial No. 282,585. Divided and this application filed July 21, 1919. Serial No. 312,176. 5 Claims. (Cl. 68—18.)



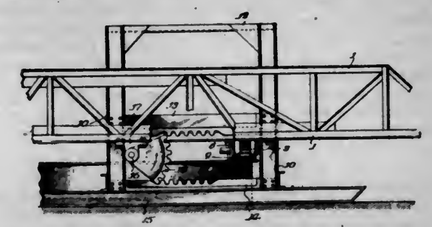
1. A washing machine comprising a tub, a perforated clothes drum therein mounted to turn on a horizontal axis, with means to operate it, and means to forcibly discharge wash water against the drum and through the clothes therein and to forcibly withdraw the wash water from the drum and to again direct it against the drum, said means embracing a pump and a discharge and an intake head connected to said pump and located respectively on opposite sides of the drum and in different horizontal planes, the discharge above and the intake below the level of the axis of said drum.

1,455,379. GOLF CLUB. WILLIAM S. ALLEN, Chicago, Ill. Filed Mar. 5, 1921. Serial No. 449,627. 13 Claims. (Cl. 46—4.)



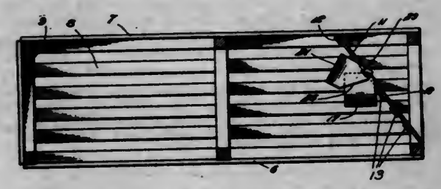
1. A golf club head having a tapered recess extending through said club and to the rear thereof, a tapered weight extending through said recess, means for effecting an interlocking wedging engagement therewith, and means for securing said weight in said recess.

1,455,380. WALKING MOTION, PROPELLING APPARATUS. VINCENT G. ANDERSON, Kenosha, Wis., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Apr. 22, 1918. Serial No. 229,945. 9 Claims. (Cl. 180—9.)



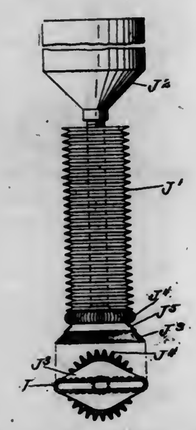
1. A walking motion propelling apparatus, comprising a main supporting frame, an auxiliary frame mounted for vertical movement with respect to said main frame, a rotary actuating member on the main frame, and spaced sections on the auxiliary frame adapted to be alternately engaged by said actuating member, engagement of one of said sections serving to successively lift the auxiliary frame to a substantial height above the ground, shift it horizontally forward and lower it again onto the ground, and engagement with the other section serving to similarly control the main frame to accomplish a forward step movement thereof.

1,455,381. LOBSTER TRAP. ANTHONY A. AXIOTES, Newport, R. I. Filed Dec. 22, 1922. Serial No 608,438. 5 Claims. (Cl. 119—66.)



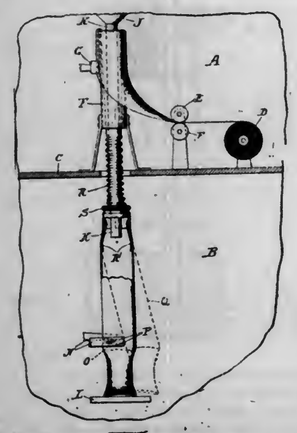
1. In a lobster trap, a case provided with an opening, a reversely arched induction plate in the opening supported by the case, and an arched induction plate eccentrically pivoted to the first plate and provided with inclined edges adapted to rest upon the first plate.

1,455,382. BAG-FORMING-TUBE PACKAGE. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Original application filed Oct. 3, 1919, Serial No. 328,311. Divided and this application filed Apr. 12, 1920. Serial No. 373,102. 20 Claims. (Cl. 226—47.)



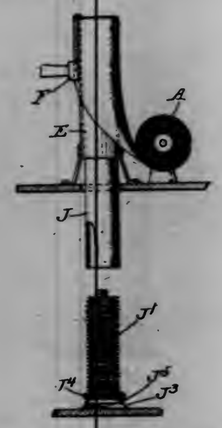
1. As a new article of manufacture, a bag forming tube package comprising a storage spool relatively short and small in cross section and having enlargements at its two ends, with a bag forming tube of relatively great length and large cross section collapsed longitudinally and threaded onto said spool between the enlarged ends.

1,455,383. PROCESS FOR MAKING AND FILLING BAGS. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Oct. 3, 1919. Serial No. 328,309. 27 Claims. (Cl. 225—53.)



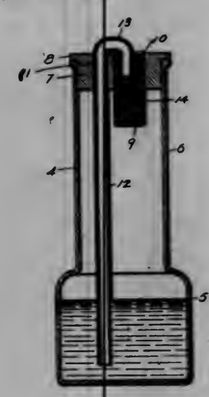
1. The method of producing a filled bag from a bag tube, which consists in supporting a portion of the tube from above, closing its lower end, inserting through the tube and against its closed end, while so supported, a charge of material with such momentum as to feed the bag forming portion of the tube forward, and closing and severing the tube above such charge to form the filled bag.

1,455,384. PROCESS OF FORMING AND PREPARING BAG TUBES FOR USE IN MAKING FILLED BAGS. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Oct. 3, 1919. Serial No. 328,311. 7 Claims. (Cl. 226—47.)



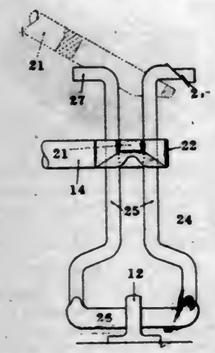
1. The method of forming and preparing bag fabric tubes for use in bag making and filling which consists in forming a bag fabric tube of relatively great length and progressively as it is formed folding the same in a longitudinally collapsed condition onto a storage piece of relatively short length and of a cross section much less than that of the distended tube.

1,455,385. INHALER. EDWARD W. BLACKWOOD, St. Louis, Mo. Filed Feb. 9, 1921. Serial No. 443,697. 1 Claim. (Cl. 128—186.)



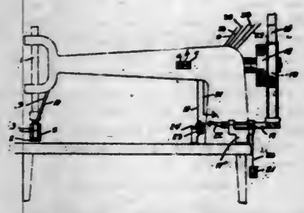
An inhaler, comprising a container having an enlarged bottom portion and a smaller neck portion, a closure having a flange seated in the neck portion, a hollow closure seated in said first mentioned closure and extending therethrough, the bottom end of said hollow closure being closed and the upper end open, a tube inserted through the first mentioned closure and having its lower end located adjacent the bottom of the container, said tube being provided with a goose-neck the lower end of which being located in the upper end of the hollow closure and projecting downwardly therein, a body of medicated air filtering material located in the hollow closure and around the downwardly projecting portion and open end of said goose-neck, and a mouth-piece provided with a flattened end and its opposite end being inserted through the first mentioned closure.

1,455,386. COUPLER-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed Apr. 6, 1921. Serial No. 458,888. 4 Claims. (Cl. 213—170.)



1. In a device of the class described, the combination with a coupler locking pin provided with an eye, of an operating rod provided with a vertical eye, a link connecting said parts and composed of two arms passing through the rod eye and connected at their lower ends by an elongated loop engaging with the eye of the locking pin and forming a stop for the rod, said arms being spaced apart to permit insertion of the link in the pin eye, said link having a head of greater dimension than the smallest dimension of the rod eye.

1,455,387. STOP FOR SEWING MACHINES. HENRY Z. COBB, New York, N. Y., assignor to New York Belting and Packing Company, a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,512. 3 Claims. (Cl. 112—219.)

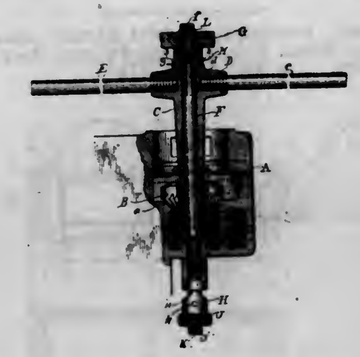


1. In a sewing machine, stitch forming mechanism including a needle, a presser bar, means for stopping the machine including a solenoid, means carried by the presser bar for closing a circuit through said solenoid and including a pair of spring contact points, means for bringing said contact points together including a spring carried by the presser bar and a pin interposed between said spring and one of the contact points, and a roller carried by said spring disposed above the work and adjacent to but slightly in rear of the normal path of the thread from the work to the needle.

1,455,388. VALVE-SEATING TOOL. GEORGE J. S. COLLINS, St. Louis, Mo. Filed Aug. 25, 1921. Serial No. 495,238. 5 Claims. (Cl. 90—12.5.)

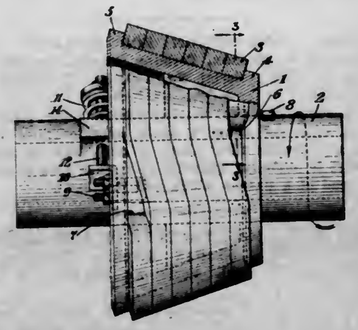
1. In a valve seating tool, the combination with a rod, of a body revoluble and adjustable upon the rod and

provided with a cutter, and a member secured to the lower end of the rod against rotary movement on the



rod, the said member having a sharpened portion for biting into the end of a valve stem guide or the like to hold the said rod against rotation.

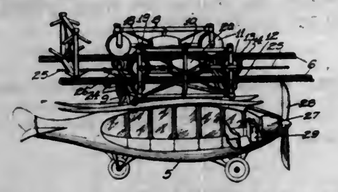
1,455,389. FRICTION DRIVING ELEMENT. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to Albany Paper Mill Machinery Company, Inc., Albany, N. Y., a Corporation of New York. Filed July 10, 1922. Serial No. 573,902. 2 Claims. (Cl. 74—26.)



1. A friction driving element comprising an annular supporting core having an aperture therein, a covering over said core comprising a strip of friction material having an end projecting inwardly through said aperture, means for exerting tension on said inwardly projecting end of the strip comprising an angle piece secured to said end, a rod slidable with regard to said core and extending from said angle piece, and a spring urging said rod to maintain the strip taut over the core.

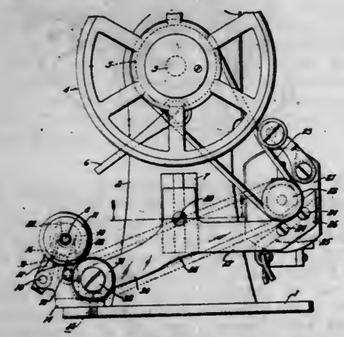
1,455,390. AERIAL RAILWAY FOR AMUSEMENT PURPOSES. ALPHONSO DAVINO and FREDRICK P. SCHOENELL, Los Angeles, Calif. Filed June 29, 1922. Serial No. 571,828. 7 Claims. (Cl. 104—63.)

2. In an apparatus of the class described, a flexible supporting structure, a substantially straight line of track frequently interrupted by sharp curves and abrupt inclinations suspended from said supporting structure, a flexible wheel carriage monted on said track and suspended therefrom, a passenger carriage resiliently suspended from said wheel carriage, an electrical conductor suspended from said supporting structure, motors mount-



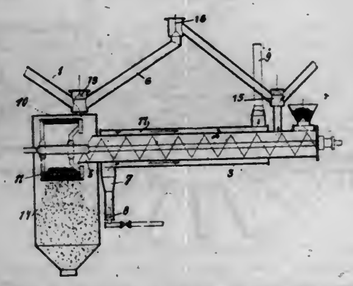
ed on said wheel carriage communicating with said electrical conductor and driving means connecting said motors with said track.

1,455,391. SEWING-MACHINE-MOTOR BRACKET. FREDERICK DIEHL, Elizabeth, N. J., assignor to Diehl Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed May 6, 1922. Serial No. 559,109. 6 Claims. (Cl. 242—20.)



1. A sewing machine driving attachment comprising a bracket adapted to be secured to the usual attachment seat on the goose-neck of a sewing machine, and a sewing machine driving motor and bobbin-winder pulley mounted in spaced relation on said bracket and adapted to be connected together for transmission of power from said motor to said pulley.

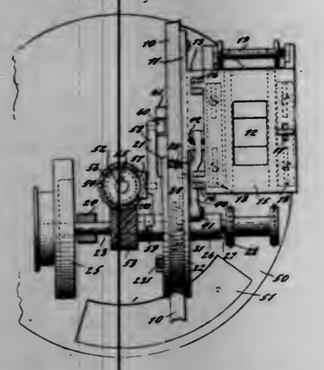
1,455,392. APPARATUS FOR DRYING CHARGES FOR SHAFT FURNACES. ERNST DIEPSCHLAG, Breslau, Germany. Filed Sept. 19, 1921. Serial No. 501,808. 1 Claim. (Cl. 34—7.)



Apparatus for preparing fuel for introduction into the smelting zone of shaft furnaces comprising a chamber, a drying cylinder extending into the chamber, a conveyor in the drying cylinder for feeding forward the material, a disintegrator positioned in the chamber to receive the

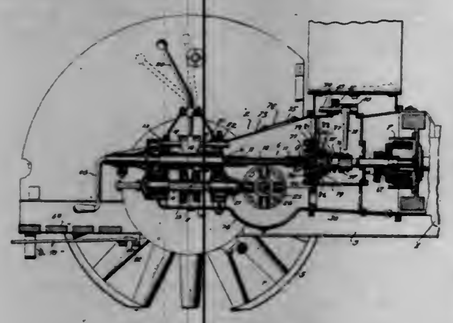
fuel from the drying cylinder and discharging the same into the chamber, and means for passing furnace waste gases through the chamber and drying cylinder to dry the fuel and heat the disintegrator.

1,455,393. MOTION-PICTURE MACHINE. JOHN DOHERTY, New York, N. Y., assignor to Superior Projector, Inc. Filed Jan. 27, 1921. Serial No. 440,254. 6 Claims. (Cl. 88—17.)



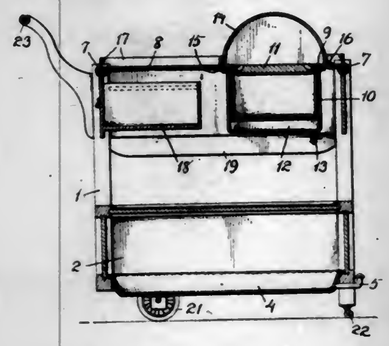
1. In a motion picture projecting machine, a vertically movable film support adapted to hold a portion of the film opposite the exposure opening, an intermittently operated sprocket to draw the film step by step through the support, a driving shaft supported in fixed bearings in the machine frame, broken gearing between the driving shaft and the sprocket, means to move the support in relation to the exposure opening, and means to move the sprocket bodily around the axis of the driving shaft and to maintain its relation to the support substantially constant as the support is moved.

1,455,394. TRACTOR. GEORGE W. DUNHAM, New York, N. Y., assignor to Graham Brothers, Evansville, Ind., a Corporation of Indiana. Filed Jan. 30, 1920. Serial No. 353,155. 14 Claims. (Cl. 180—70.)



1. The combination with an engine, of drive wheels, transmission connected to said drive wheels, a clutch for operatively connecting said engine to said transmission, means for operating said clutch, power take-off mechanism adapted to be driven from said transmission, a clutch for operatively connecting said power take-off to said transmission, and a starting crank for said engine at the rear of said transmission and at the side of said clutch operating means.

1,455,395. PORTABLE SERVING TABLE. MARY E. EXUM, Wilson, N. C. Filed Aug. 31, 1921. Serial No. 497,439. 2 Claims. (Cl. 45—17.)



1. A portable serving table, having an upper portion provided with an ice chamber and a lower portion having a heater chamber adapted to contain food dishes and spaced vertically from said ice chamber and having skeleton connections with said upper portion whereby the space between the heater and ice chambers is open upon all sides to the outer air.

1,455,396. COMPOSITION FOR TOBACCO PIPES. WILLIAM W. HESSON, Toronto, Ontario, Canada. Filed Aug. 9, 1918. Serial No. 249,190. 2 Claims. (Cl. 106—4.)

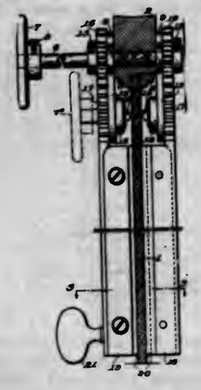
1. A composition for making tobacco pipes, comprising, ground corn cob about 4 parts, asbestos fibre about 1 part, a vegetable fibre about ½ part, and an adhesive material in sufficient quantity to form a plastic moldable mass and of a nature which will dry hard.

1,455,397. MANUFACTURE OF LOW-ALCOHOLIC BEVERAGES. HERMAN HEUSER, Evanston, Ill. Filed Jan. 12, 1920. Serial No. 350,954. 15 Claims. (Cl. 195—1.)

1. The process of producing a low alcoholic beverage from a dealcoholized fermented beverage which consists in supplying in the dealcoholized beverage a nitrogenous yeast food which promotes flavor and taste producing yeast propagation, and producing a secondary limited yeast fermentation therein.

1,455,398. WINDOW-CLEANING DEVICE. JOSEPH J. HILLER and ERNEST R. STRENGER, Philadelphia, Pa., assignors of one-third to Louis J. Venuto, Philadelphia, Pa. Filed Aug. 3, 1920. Serial No. 400,955. 1 Claim. (Cl. 15—256.)

A window-cleaning device, comprising a pair of plates having aligned apertures, said plates adapted to be positioned upon the opposite sides of a window frame, means to removably attach each of said plates to said frame independently of the other of said plates, each of said plates having a depending portion, a rod extending through said frame and through the aperture in each plate and forming the only connection between said plates, a pair of gears carried by said rod upon the opposite sides of said plates, means also carried by said rod to permit direct manual rotation thereof, a gear pivotally carried by the depending portion of each of said plates and meshing with said first gears, and cleaning members forming extensions of each of said gears and



adapted to be oscillated across the opposite surfaces of a pane supported by said frame by means of the oscillation of said rotating means.

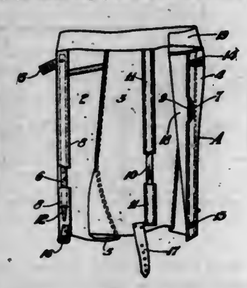
1,455,399. FLUSH WALL RECEPTACLE PLATE. WILLIAM R. KRAVANEY, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,392. 1 Claim. (Cl. 247—23.)



The combination with a flush-wall receptacle-plate formed with a service-opening, a rectangular clearance-notch leading out of the upper end of the said opening, and an integral pintle extending between the side walls of the said notch and positioned therein to form a clearance space between it and the upper wall of the said notch, of a door for the said opening formed at its upper end with a hinge-leaf closing the said notch and having the upper portion of its rear face cut away to substantially half the thickness of the said door, to permit the said leaf to be bent rearwardly and downwardly to embrace the said pintle, which is set back from the rear face of the said plate for a distance equal to the thickness of the main portion of the door and the lower portion of its hinge-leaf.

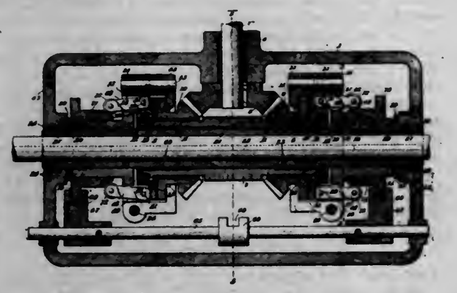
1,455,400. LEGGING. EDWIN C. KREES, Elyria, Ohio. Filed Aug. 6, 1921. Serial No. 490,311. 1 Claim. (Cl. 36—2.)

A legging comprising a leg covering portion open at one side, and an integral vamp portion, said legging being composed of split stock leather, a single reinforcing steel secured along each of the longitudinal edges of said leg portion, the lower end of one of said steels being adapted to fit within a socket on the other of said steels to secure the lower end of said legging together, a third reinforcing steel extending longitudinally from top to bottom of said legging at a point approximately intermediate the longitudinal edges of said legging, means for adjustably securing the upper end of said legging together, a flap secured to the inner face of said legging along its one longitudinal edge an appreciable distance so as to protect the leg of the wearer along said opening, and a non-elastic top rim-like portion secured to the inner face of said leg portion adjacent its upper edge



and extending upwardly beyond said leg portion an appreciable distance, said rim-like portion having its upper edge contracted to a considerable less diameter than the top edge of said leg portion so as to snugly engage the limb of the wearer and prevent the entrance of foreign matter such as hot metal and sparks between the legging and the limb of the wearer, substantially as shown and described.

1,455,401. REVERSING MECHANISM HAVING STATIONARY SLEEVE. DAVID C. KLAUSMEYER, Hyde Park, Cincinnati, Ohio, assignor to Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 13, 1921. Serial No. 461,144. 17 Claims. (Cl. 74—59.)

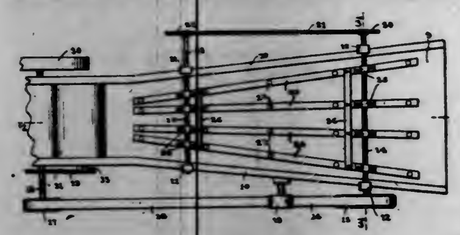


1. A motion-reverser combining a frame; a stationary sleeve rigidly supported thereby; a shaft translatably extending through said sleeve; a bevel-gear facing said sleeve; two oppositely-arranged bevel-gears meshing with said first gear and each journaled to rotate on the respective ends of said sleeve and out of contact with said shaft; two clutches operatively connected to said shaft and each arranged adjacent the outer ends of said gears, respectively; and means for alternately engaging either clutch with its associated gear.

1,455,402. SELF-FEEDER FOR FEED CUTTERS. FRANK KOLARIK, Manitowoc County, Wis. Filed Dec. 9, 1922. Serial No. 605,877. 2 Claims. (Cl. 146—134.)

2. The combination with a feed cutting machine having a cutting member and a pair of coacting feeding rolls, of means for positively feeding material to said rolls, comprising a trough having converging side walls adapted to receive the material to be fed; crank members

mounted in different horizontal planes upon the sides of said trough; inclined converging ridge bars spaced to extend substantially the full width of said trough, and all in substantially the same horizontal plane carried by said crank members, and provided with angularly disposed pins for engaging the material to be fed; and



means for rotating said cutting member, said feed rolls, and said crank members simultaneously, whereby the latter members may cause said bars and pins to engage and feed said material forward to said rolls, and to then disengage themselves and return to their initial positions.

1,455,403. CAR SEAL. MARTIN J. LINS, St. Paul, Minn. Filed June 9, 1922. Serial No. 567,228. 6 Claims. (Cl. 292—323.)



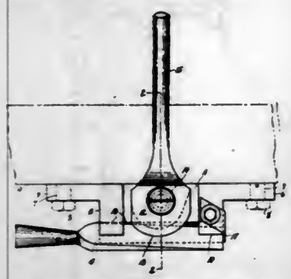
1. A car seal comprising a band, a housing at one end provided with a socket having notches in its walls and a tongue at the other end of said band to enter said socket, said tongue having a notch therein, a link having one end fitting within a slot in the end walls of said socket and normally resting at its other end within the notch in said socket, said link being forced out of said slot by the engagement of the tongue therewith, said link when forced out of said slot, dropping into the notches in said socket and tongue, and a spring finger overhanging the slot in said socket and yielding outward to permit the exit of said link and thereafter preventing the return of said link to said slot.

1,455,404. TOY VEHICLE. FRANK MULVENY, Fall River, Mass. Filed Feb. 20, 1922. Serial No. 538,027. 2 Claims. (Cl. 208—30.)



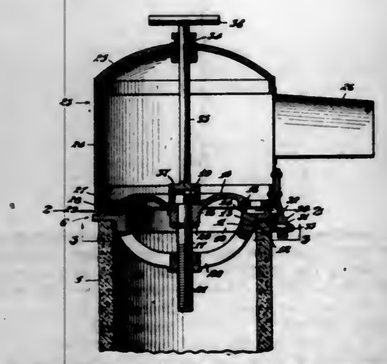
1. A toy vehicle of the class described comprising a tapered body, a cranked rear axle for the same, a front axle, wheels carried by the axle, said body having guide slots in the sides of its narrow part, a pair of longitudinally extending rods having their rear ends connected with the cranks of the rear axle and the front ends bent and passing through the slots and pedals on said bent ends.

1,455,405. FIXTURE FOR GRINDING BEVELED CHISELS. JAMES F. NAGLE, Southington, Conn., assignor to The Peck Stow & Wilcox Company, Southington, Conn., a Corporation. Filed Sept. 9, 1922. Serial No. 587,167. 2 Claims. (Cl. 51—218.)



1. In a fixture for grinding the edges of beveled chisels, the combination with a frame formed with an inclined chisel-receiving groove and with a recess intersecting the same between the ends thereof, of a pivotal chisel-clamp located in the said recess and having its clamping-edge beveled to correspond to the inclination of the outer wall of the said chisel-receiving groove which is outwardly inclined with respect to the said recess.

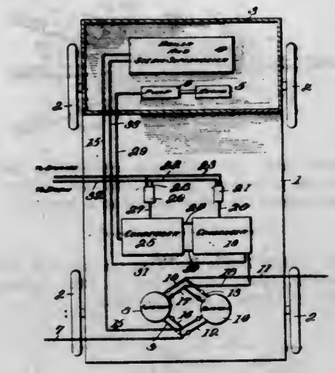
1,455,406. PORTABLE HEAD FOR IRRIGATION RISERS. VICTOR E. NICOLAIDES, Lancaster, Calif. Filed July 29, 1920. Serial No. 399,792. 3 Claims. (Cl. 137—18.)



1. The combination of a stand-pipe, a rim carried by the stand-pipe, spaced projections on said rim extending outwardly from the stand-pipe, a valve seating on said rim for closing the stand-pipe, a hydrant adapted to seat on said rim, means on said hydrant for operating said valve, and a series of cams on said hydrant engageable with the underside of projections on said rim for detachably connecting the hydrant on said rim, said cams being adapted to be passed through the spaces between the projections whereby the cams will be positioned on a plane below the projections in positioning the hydrant on said rim, said hydrant being adapted to be turned to dispose the cams beneath the projections.

1,455,407. PORTABLE APPARATUS FOR THE EXTRACTION OF VAPORS FROM GASES. GEORGE G. OBERFELL, Tulsa, Okla., and GEORGE A. BURRELL, New York, N. Y., assignors to Gasoline Recovery Corporation, a Corporation of Delaware. Filed Aug. 2, 1920. Serial No. 400,592. 2 Claims. (Cl. 196—1.)

1. A portable apparatus for the extraction of vapors in commercial quantities from gases comprising a portable platform, an absorber unit permanently mounted on said platform containing activated charcoal and provided with means for admitting vapor containing gases to the same, and an outlet for the denuded gas, a con-



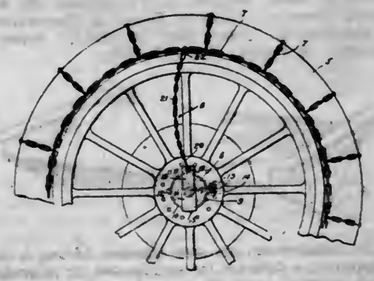
denser mounted on the platform and communicating with said unit for receiving vapors distilled from the same, and a boiler permanently mounted on the platform for furnishing steam to said absorber unit.

1,455,408. NONSKIDDING DEVICE. ADOLPH W. OLSON, McIntosh, Minn. Filed Mar. 1, 1922. Serial No. 540,250. 2 Claims. (Cl. 152—14.)



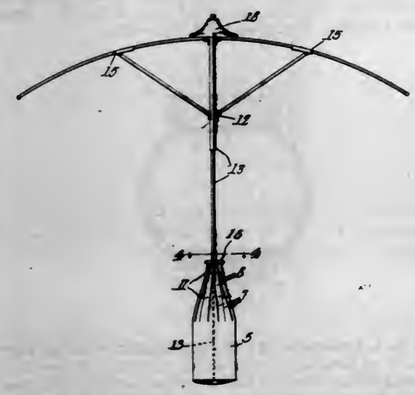
1. A nonskidding device comprising side members and tread members connecting said side members, each of said tread members comprising a single length of material provided with a coil at its central portion to overlie the central portion of the tread of the tire when the device is in applied position.

1,455,409. SAFETY FASTENING DEVICE FOR NONSKID CHAINS. LEON POLI, Walsenburg, Colo. Filed Mar. 28, 1921. Serial No. 456,362. 1 Claim. (Cl. 152—14.)



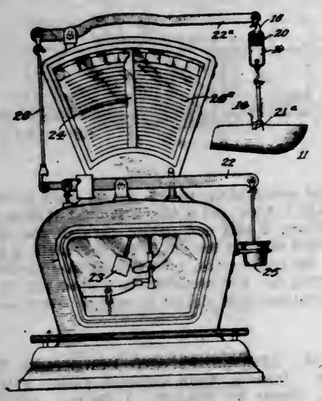
A safety device for tread chains having a detachable hub engaging clamp provided with an arm extending from adjacent the margin of the clamp toward the center of the hub, a swivel pin on said arm disposed in axial alignment with the hub with which the clamp is engaged, and a safety element having a swivel connection with said pin and provided with means for engaging a tread chain.

1,455,410. COLLAPSIBLE UMBRELLA. OTTO W. F. POSSELT, New York, N. Y. Filed Mar. 1, 1922. Serial No. 540,207. 5 Claims. (Cl. 135—25.)



5. An umbrella including a tubular casing formed of light resilient material and provided with a plurality of longitudinal slits thereby affording resilient arms, a collapsible umbrella supported within the casing and capable of being entirely housed within the same and adapted to be withdrawn therefrom, resilient bands secured to the inner face of the arms and a closure carried by the umbrella and adapted to engage the upper end of the casing when the umbrella is enclosed therein.

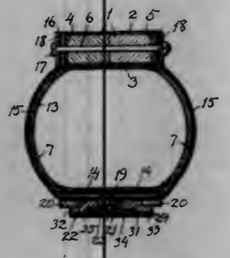
1,455,411. COUNTING SCALE. CHARLES E. RIEDEL, Detroit, Mich., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Mar. 23, 1921. Serial No. 454,635. 6 Claims. (Cl. 265—49.)



1. In a combination counting the weighing scale in combination a support for the articles to be weighed, a graduated weight indicating chart, an indicator traversing the chart, means connecting said support with said indicator to actuate the latter, a main scale beam con-

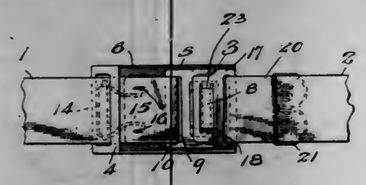
nected with the support and provided with means for alternately receiving an article carrier, or a swinging poise, said beam when connected to said swinging poise reacting through the connections to cause the indicator to stand at zero on the chart, said beam when connected to an empty article carrier reacting through the connections to cause the indicator to assume a predetermined position away from zero on the charts.

1,455,412. ARMORED PNEUMATIC TIRE. CHARLES SCHEUNER, Chicago, Ill. Filed Jan. 17, 1922. Serial No. 529,887. 5 Claims. (Cl. 152—16.)



3. In a pneumatic tire, the combination with an inner tube, of an annular tubular casing composed of two annular longitudinal concavo-convex halves meeting along their outer circumferential edges and provided each with annular circumferential spaced ribs and annular grooves therebetween, resilient springs adapted to take a portion of the strain of the load and related to each of said halves, and connecting means for said halves including an outer tread composed of arcuate sections having spaced ribs and an annular groove therebetween engaging the inner of the ribs and the grooves of said casing halves, said tread having annular marginal portions resting upon the outer of the ribs of the casing halves.

1,455,413. BELT BUCKLE. MARY STARMER, Newport News, Va. Filed Dec. 30, 1921. Serial No. 525,887. 3 Claims. (Cl. 24—77.)

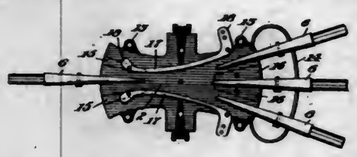


1. The combination with a buckle plate having a rear plate and a hook and a slot fashioned therein, a slotted guide plate, a belt end passed through the guide plate and looped through the slot in the rear-plate, a supporting bar in the guide plate, a barbed-fastener carried by said supporting bar and securing the looped end of the belt, and a coupling link slotted to engage said hook.

1,455,414. ABSORBING AND PURIFYING COMPOSITION. JOHN C. TATE, Oakland, Calif. Filed Apr. 6, 1922. Serial No. 550,206. 4 Claims. (Cl. 183—118.)

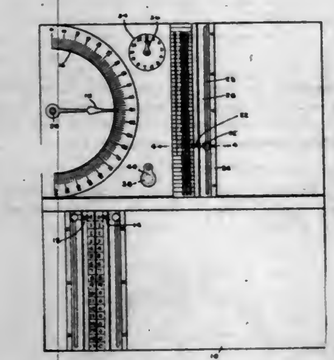
1. A composition for purifying waste gaseous products of combustion comprising a vegetable material and a binder capable of absorbing and retaining moisture, gases and the disagreeable odors resulting from the combustion of animal and vegetable matter.

1,455,415. CONDUCTOR CONNECTION. JOHN T. TIGHE, Scranton, Pa. Filed Jan. 14, 1921. Serial No. 437,230. 10 Claims. (Cl. 191—38.)



5. A wear plate for conductor connections, having a portion of the plate including a section removable to constitute an opening for the reception of a runner.

1,455,416. CARD-GAME SCORER. ARTHUR D. WALKER, Minneapolis, Minn. Filed Oct. 4, 1920. Serial No. 414,397. 1 Claim. (Cl. 235—90.)



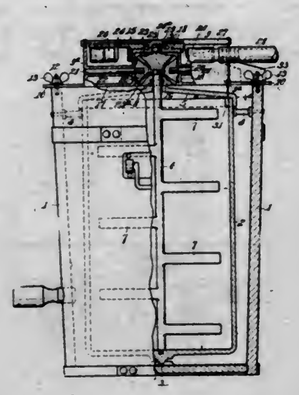
A card game scorer comprising a sheetlike member, a strip of flexible material secured along one of its edges to said sheetlike member, the body of said strip being curved to provide a spring member in spaced relation to said sheetlike member, a pointer resting upon said sheetlike member, a curved rib upon the rear of said pointer engaged by the curved portion of said strip, and a stem extending out from said rib, said stem passing through a longitudinal slot in the curved portion of said strip whereby said pointer may be slid for the purpose of bringing it into register with anyone of a succession of numbers placed adjacent said strip.

1,455,417. HEAT DEFLECTOR. FRED ERNEST WHITE, Gardner, Mass., assignor to The Central Oil & Gas Stove Company, Gardner, Mass., a Corporation of Massachusetts. Filed Jan. 17, 1922. Serial No. 529,959. 3 Claims. (Cl. 126—275.)



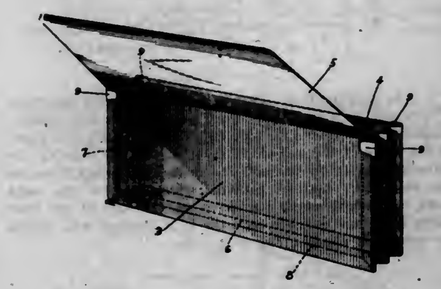
1. In combination, an oven chamber having a heated air entrance, a deflector for said heated air in proximity to said entrance, including an enclosed dead air space whereby the heated air is deflected and freely circulated by said deflector into said oven chamber.

1,455,418. ICE-CREAM FREEZER. ROBERT M. WOODS, Wheeling, W. Va. Filed July 7, 1922. Serial No. 573,406. 6 Claims. (Cl. 259—51.)



1. In a device of the character described, a container having a cover, a stirrer rotatable within said container and having its upper end projected above said cover, and a motor for driving said stirrer, said motor being superposed over said container and comprising a casing having a bottom and provided with a detachable cover, a housing located centrally with respect to said casing, said housing having its upper end closed, a water actuated rotor above said end of said housing, and means intermediate said rotor and the projecting end of said stirrer whereby rotation of the former is imparted to the latter.

1,455,419. ENVELOPE. EUGENE FREDRICK AHLQUIST, Minneapolis, Minn., assignor to Security Envelope Company, South Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 21, 1921. Serial No. 516,727. 4 Claims. (Cl. 229—68.)



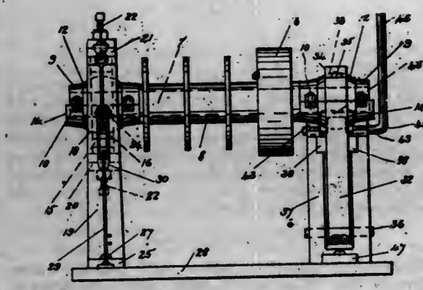
1. An expansion envelope having front and back members, a gusset to form the sides and bottom of the envelope, marginal flanges provided along both edges of the gusset whereby the gusset may be secured to the marginal portions of the front and back members and a tab provided on a marginal flange of the gusset and adapted to be folded over the edge of an adjacent member and secured to the face thereof whereby the envelope is strengthened.

1,455,420. DROP BOARD FOR DROP PRESSES. BYRON ALLEN, Southington, Conn. Filed Mar. 31, 1922. Serial No. 548,551. 1 Claim. (Cl. 78—29.)



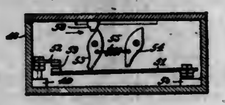
A composite drop-board for drop-presses, consisting of a plurality of pre-hardened strips or units having their condensed or hardened faces abutted and secured together.

1,455,421. LEVER MECHANISM. NORMAN AYERS, New Straitsville, Ohio. Filed July 24, 1922. Serial No. 577,127. 3 Claims. (Cl. 64—52.)



1. In a lever mechanism, the combination, with a support, and a shaft having one end portion journaled therein; of a stationary standard, a lever having its lower part pivoted to the said standard and having at its upper part a spherical socket provided with a bearing for the other end portion of the said shaft, said socket being rigidly secured to the lever and the said bearing being free to rock in the socket and being normally arranged directly over the pivot of the lever, and means for oscillating the said lever on its pivot to vary the position of the said shaft.

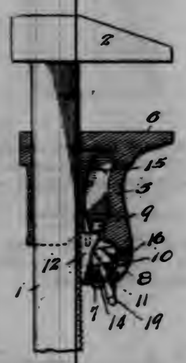
1,455,422. DIRECTION INDICATOR FOR MOTOR VEHICLES. SAMUEL H. BOITNOTT, Roanoke, Va. Filed Apr. 18, 1921. Serial No. 462,318. 3 Claims. (Cl. 177—337.)



1. In a motor-vehicle direction-signal system wherein the signal is electro-mechanically operated to set position and automatically reset by the return of the steering

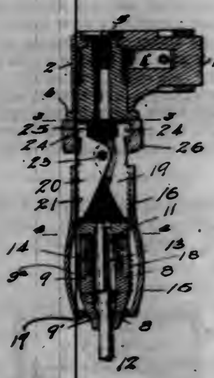
mechanism to normal position, a cam-actuating member adapted to be moved by the steering mechanism, a pair of cams positioned to be actuated by the movement of said member, and a normally-closed circuit breaker adapted to be actuated to open position by either one of said cams when said member returns to normal position by the straightening of the steering wheels, said cams being pivotally supported and normally held in inactive position.

1,455,423. WRENCH. COMMODORE P. BROWN, Ronceverte, W. Va. Filed Mar. 23, 1922. Serial No. 545,975. 1 Claim. (Cl. 81—143.)



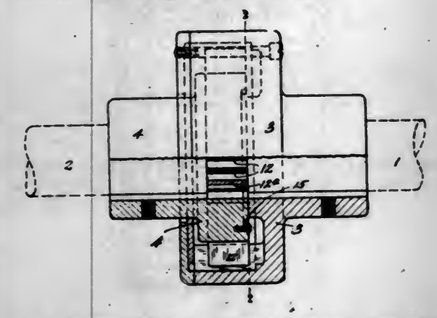
The combination with a shank and fixed jaw, of a slidable jaw and frame, a bifurcated extension on said frame having an inner cam face, a spring pressed sliding-catch having a complementary cam face and retained within the frame, a key located between said cam faces, cam faces on opposite sides of said key for engagement with the first mentioned cam faces, and a lever on the key guided in the bifurcated extension.

1,455,424. BIT CLAMP. COMMODORE P. BROWN, Ronceverte, W. Va. Filed Apr. 6, 1922. Serial No. 550,193. 3 Claims. (Cl. 279—35.)



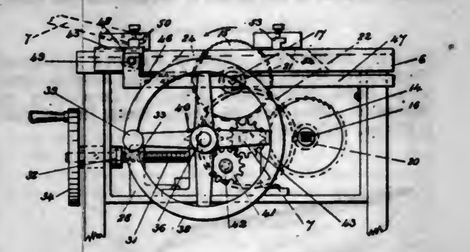
1. A bit clamp comprising a bit stock and clamping jaws carried thereby, a clamping sleeve for the jaws having interior threads, a pair of pivotally mounted dogs having complementary exterior threads to engage the sleeve to hold said sleeve against sliding movement and permitting rotary movement, a cam ring surrounding said stock and adapted to force the threads of the dogs into engagement with the threaded sleeve, and means engaging the dogs to disengage the latter from the sleeve when the dogs are released by the cam ring.

1,455,425. FLEXIBLE COUPLING. ELLIS E. BROWN, Springmont, Pa. Filed Aug. 30, 1922. Serial No. 585,155. 3 Claims. (Cl. 64—26.)



1. A flexible coupling comprising driving and driven members, one of which is formed with circularly spaced tooth recesses, and the other of which is provided with engaging teeth some of which are of resiliency yielding structure and other of relatively rigid structure, the latter being adapted to engage only after determined flexure of the resilient teeth.

1,455,426. CIRCULAR-SAW MACHINE. CLEMENT D. CHARLES, New York, N. Y. Filed Dec. 8, 1921. Serial No. 520,973. 2 Claims. (Cl. 29—70.)

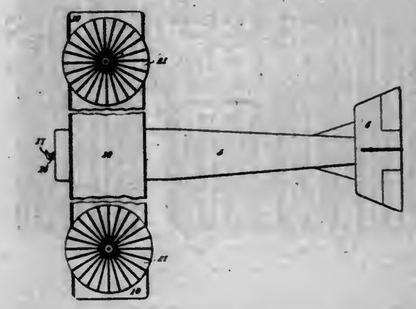


1. The combination, with a supporting table provided with a slot, of a bell-crank lever pivoted to a non-slidable support below the table top, two circular saws journaled in the arms of the bell-crank lever, means for moving the bell-crank lever to project the saws alternately through the said slot, toothed pinions which revolve the said saws, a toothed wheel journaled on the axis of the bell-crank lever and gearing into the said pinions, and means for revolving the said toothed wheel.

1,455,427. AEROPLANE. JOSEPH CHOCHOL and MICHAEL DYKAS, Chicago, Ill. Filed Aug. 4, 1921, Serial No. 489,753. Renewed Jan. 31, 1923. 1 Claim. (Cl. 244—15.)

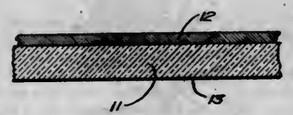
In combination with a fuselage having superposed planes at the forward end thereof and extending from opposite sides of the same, an engine in the forward end of said fuselage having rearwardly and forwardly extending shaft portions, a screw propeller for causing forward movement of the aeroplane fixed upon the forwardly projecting portion of the engine shaft, a bevel gear fixed upon the rearwardly extending portion of the engine

shaft, a transverse shaft arranged in a horizontal position at each side of the fuselage and terminating adjacent the outer ends of the planes between the latter, bevel gears slidably keyed upon the inner ends of said last named shafts adapted to mesh with the first named bevel gear, manually operable means to connect or disconnect either one or both of the last named bevel gears



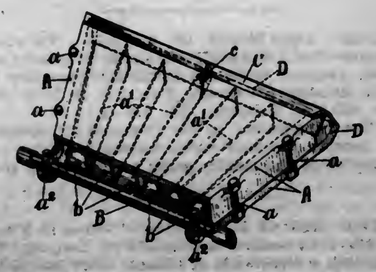
from said first named bevel gear and including a pair of horizontal rearwardly extending levers arranged within the fuselage rearwardly of the engine, vertical shafts journaled near the outer ends of the planes and rotatably geared to the outer ends of said last named shafts, and lifting propellers fixed upon the upper ends of the vertical shafts above said plane.

1,455,428. MOTION-PICTURE FILM. CLARENCE J. COBERLY, Los Angeles, Calif. Filed Feb. 8, 1917. Serial No. 147,505. 5 Claims. (Cl. 95—9.)



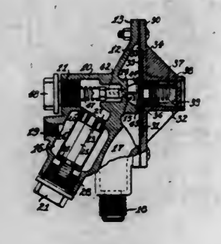
2. A motion picture film having a layer of material which is hygroscopic in atmospheres of seventy percent relative humidity or below.

1,455,429. FURNACE OF STEAM BOILERS. THOMAS COLLIER, Colne, England. Filed Sept. 23, 1922. Serial No. 590,126. 2 Claims. (Cl. 110—69.)



1. A Bunsen blower, adapted to be secured under the dead plate of a furnace, comprising a fan-shaped body open at each end and divided by partitions into a series of compartments which are wider at their outlets than at their inlets, the bottom of the outlet end portion of the body being inclined upwardly beyond the rear ends of the compartments, a deflecting plate secured over the inclined end portion and arranged at a steeper angle than it, and a steam pipe arranged crosswise of the open inlet end of the body and having a series of nozzles which project into the air inlet openings of the compartments.

1,455,430. EXPANSION VALVE. EDWARD R. DE LUIZ, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 1, 1920. Serial No. 385,501. 8 Claims. (Cl. 50—23.)



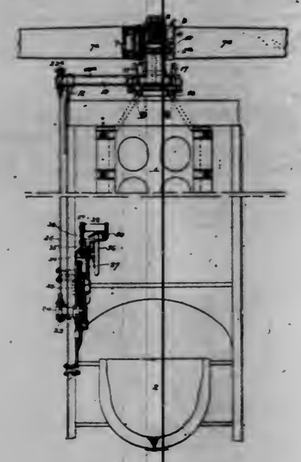
1. In a pressure reducing valve, a casing having therein an elongated valve chamber and a diaphragm chamber, a partition between said chambers and having an aperture therein, said casing also having a passageway leading downwardly from each of said chambers, the passageway which communicates with the diaphragm chamber constituting an outlet and the other passageway constituting a filtering chamber, removable closures for said valve chamber and filtering chamber, a filtering cell comprising a pair of spaced heads and a screen connecting them, one of said heads being apertured and seated in the orifice which establishes communication between said last mentioned chambers, means including the closure of said filtering chamber for holding said cell in place, the wall of said filtering chamber being formed with an inlet opening, a valve in said valve chamber adapted to close said first aperture, and having a stem projecting through that aperture, a spring for closing said valve, a diaphragm traversing said diaphragm chamber and adapted when deflected to displace said stem, a cover plate on the opposite side of said diaphragm from said casing, and an adjustable spring carried by said cover plate and tending to move said diaphragm against the tension of said first spring.

5. In a pressure regulating valve, a casing therein a horizontal valve chamber and a depending chamber communicating therewith through a narrowed orifice, a filter cell located in said second chamber and having a pair of spaced heads, surrounded by a screen, one of said heads being apertured and received tightly in said orifice, a post connecting said heads inside said screen, a removable closure for the end of said second chamber which is opposite said orifice, and a spring interposed between said closure and the adjacent end of said cell.

1,455,431. CONTROL MECHANISM FOR PROPELLERS. THOMAS A. DICKS, Pittsburgh, Pa., assignor to Standard Steel Propeller Company, Pittsburgh, Pa. Filed June 30, 1921. Serial No. 481,600. 10 Claims. (Cl. 244—25.)

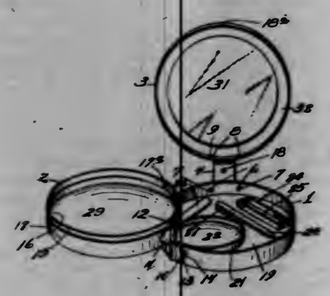
1. In control mechanism for propellers, the combination with a propeller having adjustable blades, and adjusting means connected with said blades, of a shaft, a forked lever secured to said shaft and connected with

said adjusting means, a walking beam lever secured to said shaft, a control lever, a second walking beam lever,



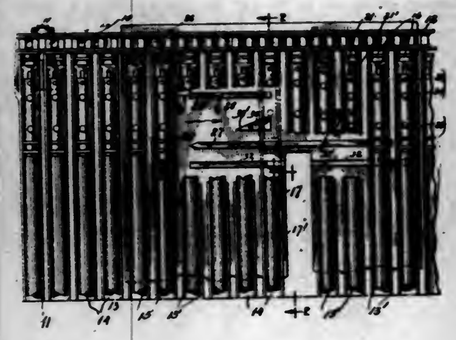
gearing between said last-mentioned lever and said control lever, and rods connecting the respective walking beam levers.

1,455,432. VANITY CASE. CARROLL E. DODSON, Kansas City, Mo., assignor, by mesne assignments, of one-half to Union Pharmacal Company, a Corporation. Filed July 5, 1922. Serial No. 572,767. 2 Claims. (Cl. 132—83.)



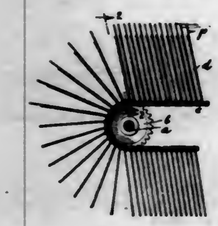
2. A vanity box comprising a bottom member, a hinge plate projecting upward from said member, a lid member having a hinge plate hinged to the first-named hinge plate and adapted for movement in a vertical plane, and an intermediate member pivoted to the bottom member and adapted for horizontal swinging movement to expose the interior of said bottom member or to cover said member; said first-named hinge member and the wall of the intermediate member having a cavity and a protuberance for engagement when the intermediate member is occupying a position upon and covering the bottom member.

1,455,433. CONVEYER. MAX ELLRICH, Jersey City, N. J., assignor, by mesne assignments, to Marie Christensen, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 421,841. 9 Claims. (Cl. 198—179.)



1. In a conveyer of the character described, the combination with tubular containers open at their ends, of laterally movable members adapted to enter the open ends of said containers to retain them in position.

1,455,434. FASTENING OF TRAYS TO CONVEYERS. MAX ELLRICH, Jersey City, N. J., assignor, by mesne assignments, to Marie Christensen, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 421,842. 3 Claims. (Cl. 198—134.)



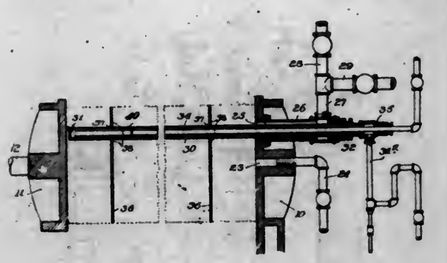
1. In a conveyer of the character described, the combination with a roller chain, of wire trays removably carried by said chain and the ends of which are looped around the ends of the pins of adjoining links.

1,455,435. TREATMENT OF SEWAGE. THOMAS H. FAIRBROTHER and ARNOLD RENSHAW, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed Feb. 19, 1923. Serial No. 620,014. 6 Claims. (Cl. 210—1.)

1. The improvement in the treatment of sewage by tank aeration processes which consists in adding coloring matter of the oxazine series to the sewage sludge.

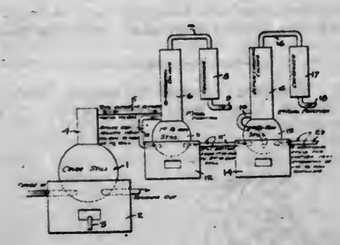
1,455,436. ART OF FILTRATION. GEORGE H. FIFIELD, Culver, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Nov. 5, 1920. Serial No. 421,859. 25 Claims. (Cl. 210—191.)

1. In wax filtering apparatus, in combination, a filter surface, means for forcing chilled oil through said surface, thereby depositing wax therefrom, and a heat conductor extending transversely through said filter surface



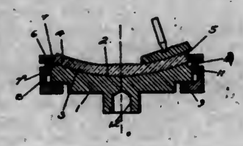
whereby heat may be applied to the wax deposited thereupon.

1,455,437. PETROLEUM-DISTILLATION PROCESS. VINCENT T. GILCHRIST, San Francisco, Calif., assignor to Superior Process Refining Company, San Francisco, Calif., a Corporation of California. Filed July 9, 1918. Serial No. 244,032. 3 Claims. (Cl. 196—25.)



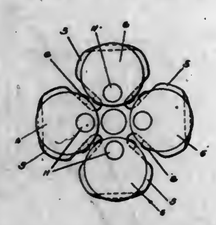
1. The process of distilling petroleum consisting in heating the same; flowing the distilled vapor derived therefrom through a suitable refractionating column; directing said vapor into a condenser; reheating and revaporizing the reflux condensate from the refractionating column; flowing the resulting vapor back into the said column; and directing said resulting vapors into said condenser.

1,455,438. LENS BLOCK. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 23, 1920. Serial No. 426,005. 4 Claims. (Cl. 51—217.)



1. A lens block comprising a lens supporting member having a seat to receive the lens slightly more concave centrally than the curve of the lens to be mounted thereon, a lens engaging annulus slidably but nonrotatably carried by the seat and projecting thereabove, and a clamp ring interlocking with the annulus and having a portion engaging the opposite face of the lens supporting member for clampingly drawing the annulus in the direction of the lens seat.

1,455,439. LENS HOLDER. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 23, 1920. Serial No. 426,006. 4 Claims. (Cl. 51—217.)



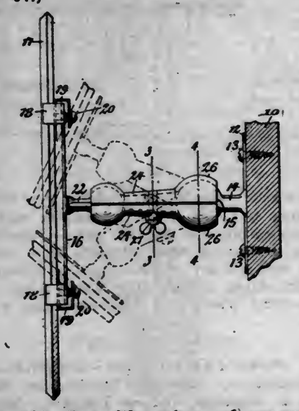
2. A device of the character described including a plurality of lens seats having rigid lens engaging members at their outer sides and resilient lens engaging members at their inner sides.

1,455,440. PROCESS OF MANUFACTURING FLUTES. FLORENT HOFINGER, Brussels, Belgium. Filed Feb. 16, 1922. Serial No. 537,074. 3 Claims. (Cl. 29—169.5.)



1. A process for the manufacture of flutes formed of metal consisting in first forming oblong holes in the body tube of said flute, then pressing up the metal of the edges of said oblong holes so as to form conical nozzles, and then pressing the said conical nozzles into cylindrical nozzles with inwardly turned flanges integral therewith and substantially at right angles to the said cylindrical nozzles so as to provide a flat annular surface on which the keys can rest.

1,455,441. BRACKET FOR SUPPORTING MIRRORS AND THE LIKE. WILLIAM LA HODNY, Buffalo, N. Y. Filed May 3, 1920. Serial No. 378,407. 3 Claims. (Cl. 45—97.)



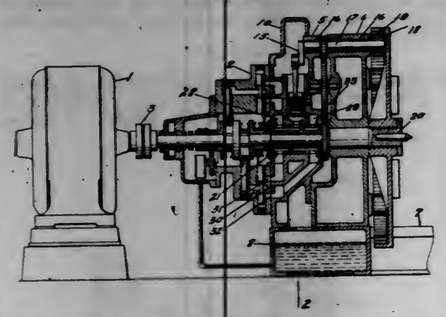
3. The combination with a mirror, of cooperating holding members engaging opposite edges of said mirror and having cooperating rounded portions forming a ball, and a supporting clamp adjustably engaging said cooperating rounded portions.

1,455,442. PROPELLER FOR AERIAL MACHINES. ROBERT LEPARMENTIER, Bordeaux, France. Filed Feb. 16, 1922. Serial No. 537,052. 3 Claims. (Cl. 170—162.)



1. An aerial machine, a motor connected therewith, a motor-shaft leading from the motor, a variable-load propeller turnably secured to the motor-shaft and comprising blades pivoted upon studs projecting at right angles from the motor-shaft, and means mounted on said studs for maintaining the blades at an acute incident angle relatively with said studs.

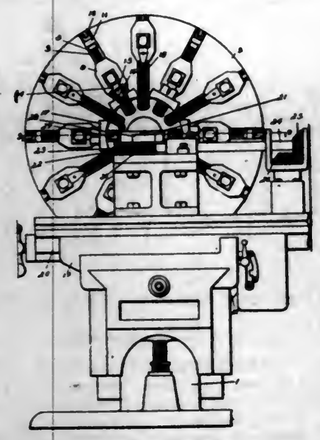
1,455,443. BALANCED HYDRAULIC PUMP OR MOTOR. WALDEMAR F. MAYER, Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Nov. 12, 1919. Serial No. 337,418. 3 Claims. (Cl. 121—121.)



1. A hydraulic motor having a plurality of cylinders, a valve having two sets of fluid channels, and annular service channels at each end, the annular channels communicating alternately with alternate fluid channels of respective sets, one set of fluid channels delivering fluid to a predetermined number of cylinders while the other set is receiving fluid from a corresponding number of cylinders.

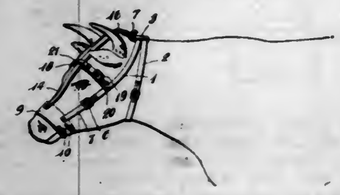
1,455,444. TORIC-LAP FORMER. ALBERT E. MAYNARD and WILLIAM A. GUNNING, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed June 5, 1920. Serial No. 386,760. 4 Claims. (Cl. 82—12.)

1. In a device of the character described, the combination with a rotatable work holding wheel having a plurality of guide ways formed in one face thereof, of work holders having portions slidable in said guide ways,



and having projecting tool receiving studs and means for locking the work holders in adjusted position in the guide ways.

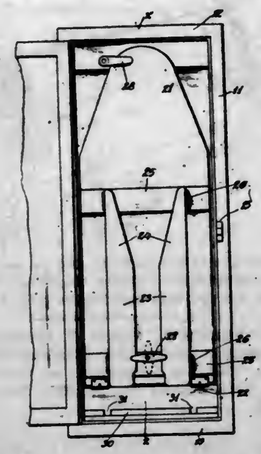
1,455,445. HALTER. JAMES B. MINER, Bend, Oreg. Filed July 6, 1922. Serial No. 573,161. 1 Claim. (Cl. 119—130.)



A halter of the character described comprising a substantially U-shaped body portion having the side straps thereof arranged in a manner to extend longitudinally of the opposite sides of the head of an animal and its basal portion to be engaged over the head of such animal, a throat encircling strap connected intermediate its end to said body portion adjacent its basal part, a muzzle encircling strap consisting of a widened band, straps connected to the upper marginal portions of said muzzle encircling strap adapted to be adjustably connected to the lower ends of said longitudinal side straps, another longitudinal strap connected to the upper marginal portion of said muzzle encircling strap intermediate said first straps having its upper end disposed for adjustable connection with the basal portion of said body portion, adjustable transversely disposed means connected to said longitudinal side straps and slidably receiving said last mentioned longitudinal strap therethrough, and means upon the opposite ends of said muzzle encircling strap for effecting circumferential adjustment of the same.

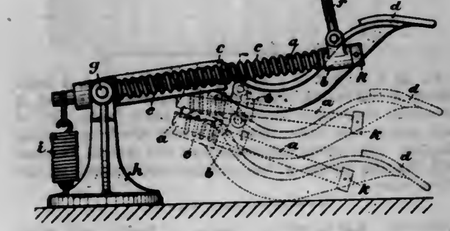
1,455,446. IRONING BOARD AND CABINET. GEORGE W. MONTGOMERY, Des Moines, Iowa. Filed July 27, 1921. Serial No. 487,964. 2 Claims. (Cl. 68—10.)

1. The combination of a cabinet and an ironing board, said ironing board fitting closely within said cabinet, a beam secured across the back of the cabinet and hinges connecting said beam and said ironing board, supporting members for the ironing board running longitudinally on the under side thereof, said supporting members being hinged to the ironing board and adapted to lie flat thereon in one position and stand out perpendicularly thereto



in another position, and guides for said supporting members at the bottom of said cabinet adapted to secure the supporting members in said perpendicular position.

1,455,447. HAND OR PEDAL LEVER WITH AUTOMATICALLY VARIABLE RATIO OF TRANSMISSION. WERNER OCHS, Bad Liebenstein, Germany. Filed May 17, 1922. Serial No. 561,766. 4 Claims. (Cl. 74—81.)

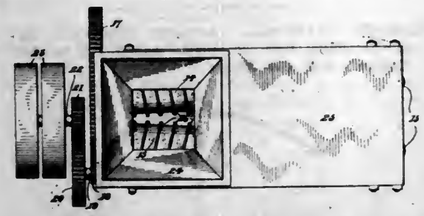


1. A hand- or pedal-lever for the operation of machine tools, in which the tool or the work piece has to make an idle stroke before the working stroke proper, comprising in combination a pivotal lever, means for depressing said lever, a sleeve movable upon said lever, a connecting rod between said sleeve and the machine tool, a spring upon said lever acting upon said sleeve in the sense of lengthening the lever arm, said lever adopting, after the idle stroke, such a position that the component of the transmitted power directed towards the fulcrum of the lever shifts the sleeve in the sense of the shortening of the lever arm so that the working stroke proper is executed in this position.

1,455,448. PROCESS OF MANUFACTURE OF DIPHENYLENEDIKETONES FROM ANTHRACENE COMPOUNDS. GUSTAV PETERS, Worms, Germany. Filed Aug. 9, 1921. Serial No. 491,023. 6 Claims. (Cl. 260—57.)

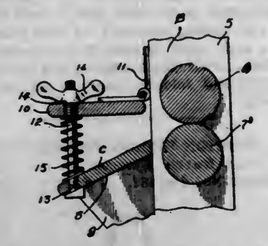
1. Process for manufacturing diphenylene diketones which comprises, heating anthracene compounds with free oxygen in the presence of an organic solvent and a relatively small quantity of an oxygen carrier.

1,455,449. NUT-CRACKING MACHINE. MAXWELL F. RIDDLE, Ravenna, Ohio. Filed Nov. 20, 1919, Serial No. 339,429. Renewed Nov. 11, 1922. Serial No. 600,474. 5 Claims. (Cl. 146—3.)



1. A nut-cracker comprising tapered rolls journaled upon parallel axes adapted for revolution toward each other, and teeth surrounding the rolls in continuous spiral lines with the adjacent convolutions of the spiral relatively close together standing in planes radially thereof.

1,455,450. SAFETY DEVICE FOR MOTOR-DRIVEN WRINGERS. FREDERICK SCHAU, Hammond, Ind. Filed Dec. 20, 1921. Serial No. 523,712. 2 Claims. (Cl. 68—32.)



2. In a clothes wringer, the combination with the side standards and the upper and lower wringer rollers thereof, of a guard for the wringer rollers including a transversely extending inclined guard plate, side brackets engaging the lower surface of the guard plate and connecting the guard plate with the standards, said plate terminating at a point adjacent to the meeting faces of the rollers, an upper plate arranged adjacent to and spaced from the guard plate, means hingedly connecting the inner edge of the upper plate to the side standards, and means connecting the forward edges of said plates for holding the same in spaced relation to each other and varying the distance between the forward edges of said plates.

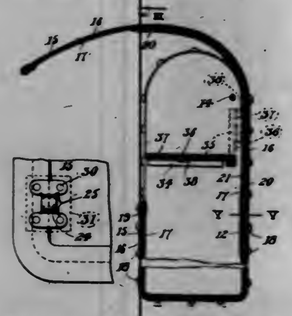
1,455,451. AIR-HOSE COUPLING. HARRY G. SCHOWE and HENRY J. HANSEN, Cleveland, Ohio, assignors to The Rex Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 8, 1921. Serial No. 459,639. 2 Claims. (Cl. 285—164.)



2. A coupling comprising a head having a socket in its front end, a packing ring fitting in the socket, a sleeve

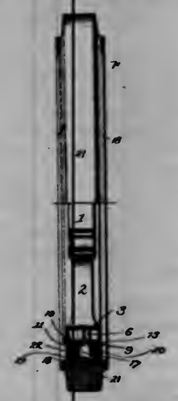
confining the packing in the socket and having a rearwardly extending stop projection, and a screw cap connecting the head and the sleeve and having a pin cooperating with said projection to limit the turn of the cap.

1,455,452. SATCHEL. ANTHONY SEMENICK, Buffalo, N. Y. Filed Feb. 27, 1922. Serial No. 539,663. 4 Claims. (Cl. 190—51.)



1. In a satchel of the class described, an outer casing having end walls, ledges fixed on the inner faces of said end walls opposite each other, and a shelf hinged to the end walls and resting normally on said ledges and consisting of a main shelf member to which said hinges are attached, and a shelf flap hinged to the front edge of the main member and foldable over to lie on top of the main member.

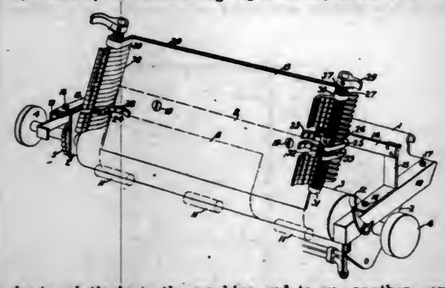
1,455,453. CUSHION WHEEL FOR MOTOR VEHICLES. BURNS LYMAN SMITH, Syracuse, N. Y. Filed July 16, 1921. Serial No. 485,157. 9 Claims. (Cl. 152—36.)



8. In combination, hub, spokes and a rim, a cushioning element mounted on said rim having a plurality of air chambers therein, means for providing restricted air passages from said air chambers to the spokes of said wheel, and a tire mounted on said cushioning element.

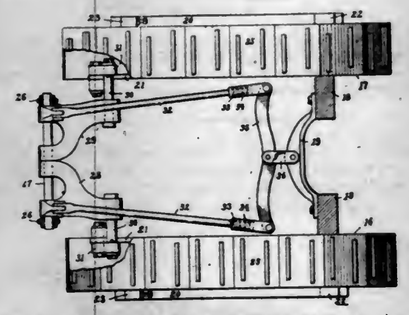
1,455,454. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 24, 1920. Serial No. 391,320. 20 Claims. (Cl. 197—140.)

1. In a typewriting machine, the combination of a line-spacing platen, a front collating table above the platen at the delivery side thereof and having a side-edge gage, and a universal paper-gage mounted along a side of the table and extending in the direction of the travel of the work-sheets, for facilitating repeated adjustments of the



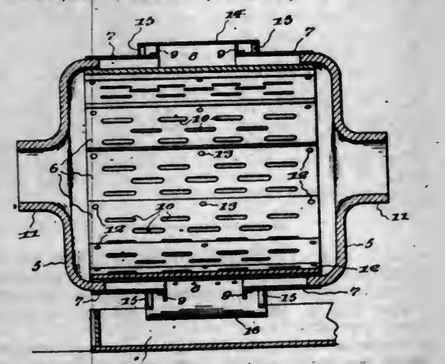
sheets relatively to the machine and to one another, comprising a multiplicity of gaging elements at line-space intervals and movable into positions to grip the work-sheets.

1,455,455. TRACTOR. HENRY J. STEGEMAN, Fairfield, Conn., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Nov. 8, 1918. Serial No. 261,615. 18 Claims. (Cl. 305—9.)



17. In a tractor of the self-laying track type, a main frame, a self-laying track unit at each side thereof, a four-point suspension means for the main frame, two of said points, one cooperating with each track unit, being floating, and means for equalizing the weight between said floating points at all relative inclinations of the track units.

1,455,456. BALL MILL. LEWIS L. SWEET and MIKE MORLEY, Wallace, Idaho. Filed Dec. 7, 1922. Serial No. 605,519. 8 Claims. (Cl. 83—9.)



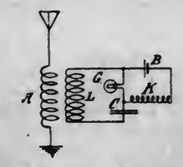
1. In a ball-mill, a drum, perforated liner plates in the drum, said drum having a side outlet extending completely around the same and spanned by the liner plates, and a housing enclosing the drum at the site of the outlet and having a discharge opening.

1,455,457. TRIAL LENS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 5, 1919. Serial No. 321,925. 17 Claims. (Cl. 88—22.)



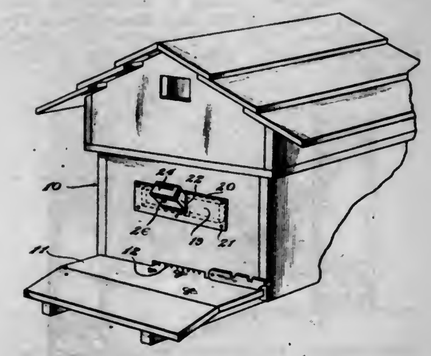
1. A compound lens eye testing set, including two related series of lenses each of a different power, the curve on one side of all lenses of one series being the same and the several curves on the opposite side being selected to give correct central power and reduced marginal astigmatism.

1,455,458. MEANS FOR DETECTING SMALL ELECTRIC CURRENTS. JOHN SEALY EDWARD TOWNSEND, Oxford, England. Filed Oct. 15, 1918. Serial No. 258,287. 7 Claims. (Cl. 250—25.)



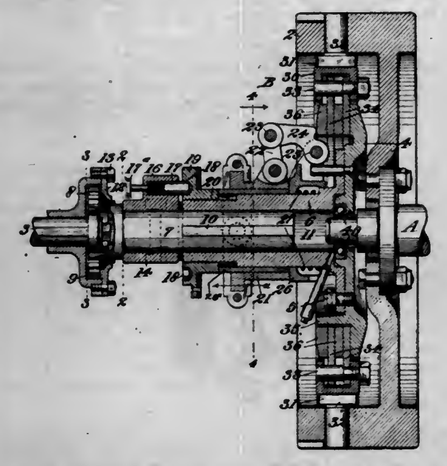
7. The method of receiving and detecting small electric currents, which consists in superimposing such currents upon a battery current passing through a filament contained in an evacuated bulb, maintaining the filament near the point of incandescence, and observing the existence of such currents by variations in the point of incandescence of the filament.

1,455,459. FEED BOX FOR BEES. BIAGIO TROILO, Oneida, N. Y. Filed Aug. 21, 1922. Serial No. 583,312. 1 Claim. (Cl. 6—5.)



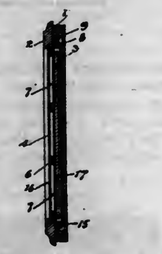
The combination with a bee hive having an aperture in one of its walls; of a feed box therefor comprising a receptacle fitting snugly in said aperture, open across its upper end providing an entrance for bees, a filling hopper attached to one side of said receptacle, passages provided between the receptacle and the hopper above the bottom of said receptacle for food supply, said hopper having inclined top and bottom walls, a frame formed on one side of the receptacle adapted for attachment to the bee hive.

1,455,460. MASTER CLUTCH. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 25, 1918. Serial No. 236,522. 6 Claims. (Cl. 192—69.)



6. In combination with driving and driven shafts in alignment, the driving shaft carrying a fly-wheel, of a frictional disk clutch assembly interposed between the driving and driven shafts, a member carrying the driving disks of the clutch, interlocking and slidable connections between the rim of the fly-wheel and said carrying member, a telescopic member connected to the driven disks of the clutch for transmitting motion of the latter, and an interlocking and slidable connection between said telescopic member and the driven shaft, said interlocking connections being engageable when the telescopic member is extended and disengageable when retracted, whereby to permit removal of the clutch assembly without disturbing the position of the driving and driven shafts.

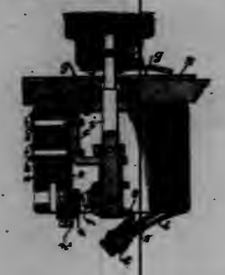
1,455,461. PICTURE OR ADVERTISING EXHIBITOR. BERNARD WATERS, Winnipeg, Manitoba, Canada. Filed Apr. 27, 1920, Serial No. 377,093. Renewed Nov. 22, 1922. Serial No. 549,475. 1 Claim. (Cl. 40—96.)



The combination of a casing having a transparent wall, a mat provided with a series of vertically spaced picture exhibiting openings supported directly behind said trans-

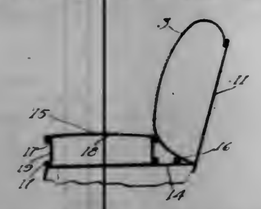
parent wall in contact therewith, a partition within the casing spaced a slight distance behind said mat, said partition being of sufficient length to extend above and below the openings in the mat, an endless picture exhibiting band encircling said partition and having the forward run thereof guided between the partition and the mat, the rearward run thereof being guided between the partition and the wall of the casing opposite the transparent wall, a pair of upper rollers supported above the upper end of the partition and engaging opposite sides of said band, a lower roller supported beneath the lower end of said partition and engaging the band as it passes therebeneath, and means for simultaneously rotating both of said upper rollers to actuate the band.

1,455,462. ELECTRIC RESISTANCE. OTTO WEEBER, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 10, 1918. Serial No. 227,817. 5 Claims. (Cl. 219—63.)



1. In a device of the class described, in combination, a plurality of concentric, spaced, ring-shaped members wound with resistance coils, said members being concentrically arranged about a common axis, corresponding portions of said members being free from wire, supporting means for said members, an axle carrying a contact member for cooperation with said coils, and means for attaching said coils to said support, said attaching means cooperating with those portions of the ring shaped members which are free from wire.

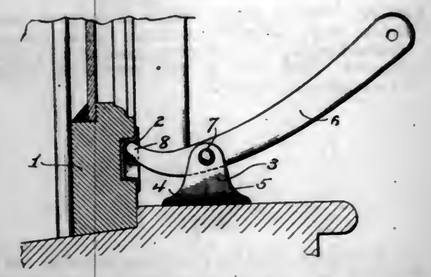
1,455,463. MEANS FOR MOTHPROOFING FURNITURE. ISSAC J. WEINBERG, Chicago, Ill. Filed July 24, 1922. Serial No. 577,110. 2 Claims. (Cl. 155—1.)



1. A reenforcing and moth proofing material for cloth covered articles comprising two pieces of cloth, a chemically treated reenforcing member forming a part of the seams of the cloth, stitching securing said member to said cloth, said member adding more material through which the stitching extends, thereby reenforcing the seam.

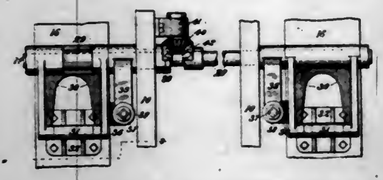
1,455,464. WINDOW-OPERATING DEVICE. LOUIS WELKER, Jr., Williamsport, Pa. Filed June 6, 1921. Serial No. 475,298. 1 Claim. (Cl. 254—131.)

A sash-lifting jack comprising a support to rest upon a window sill and a lever pivoted near one end to said support, the shorter arm of said lever being curved upwardly and having its free end portion shaped to engage and conform approximately to the under face of the projecting lip of a sash lift and to also firmly engage



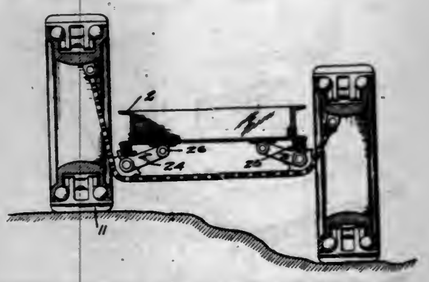
the upper wall of a recessed sash lift, whereby force applied upwardly by the engaging end of the lever will be imparted to the sash lift close to the vertical plane of the inner face of the sash.

1,455,465. FRAME SUSPENSION FOR TRACTION ENGINES. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 13, 1918. Serial No. 249,611. 10 Claims. (Cl. 305—9.)



5. In a four-point support track laying tractor, means for equalizing the strains on the track laying units comprising an axially rotatable transversely disposed member provided with oppositely rotating operative members adapted to co-act with the traction units and transmit vertical motion of one unit to the other.

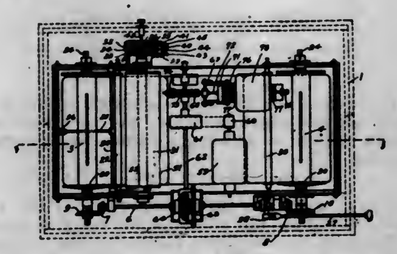
1,455,466. TRACTOR. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 26, 1920. Serial No. 384,344. 5 Claims. (Cl. 305—9.)



1. In a tractor, a main frame, a self-laying track unit at each side thereof, including a truck frame pivotally

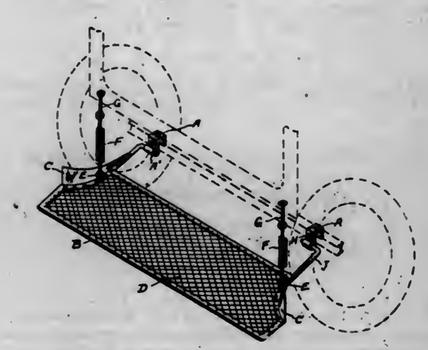
connected to the main frame for rocking movement in a vertical plane, and an equalizing suspension means between each truck frame and the main frame, comprising a flexible member connected to opposite truck frames and passing slidably beneath the main frame.

1,455,467. STREET INDICATOR. WALTER ALEXANDER WILSON and SYDNEY WILSON, Vancouver, British Columbia, Canada. Filed July 15, 1921. Serial No. 484,984. 22 Claims. (Cl. 40—53.)



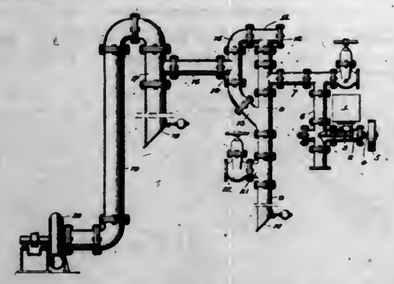
1. In a street indicator, a casing having a display opening, a band bearing street names, mechanism for moving said band past the display opening including a brake drum, an electric motor for operating said mechanism, a band operated roller having one end provided with three spaced metallic rings in metallic connection with each other, the periphery of each ring being designed to form an electrical current path one continuous and the remaining two interrupted by the insertion therein of a vulcanite portion, a suitably supported contact arm for each ring forming circuit terminals bearing respectively on the continuous path and the interrupted ones, a magnetically operated brake band associated with said brake drum, and an electrical circuit in which said rings, said arms, said motor, and the brake magnet are disposed.

1,455,468. AUTOMOBILE FENDER. JOHN ALLEN, Detroit, Mich. Filed Aug. 28, 1922. Serial No. 584,768. 1 Claim. (Cl. 293—44.)



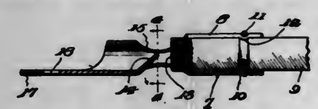
An automobile fender comprising a frame having a netting mounted thereon, a pair of fulcrum brackets adapted to be secured upon the forward portion of an automobile, removable side arms secured to the frame and adapted to pivot within the fulcrum brackets, supporting springs engaging the frame intermediate its extremities, and guard plates secured to the sides of the frame.

1,455,469. METHOD OF AND APPARATUS FOR SEPARATING COAL AND LIKE SUBSTANCES AND IMPURITIES MINGLED THEREWITH. WILSON D. ALTHOUSE, Philadelphia, Pa. Filed Aug. 22, 1922. Serial No. 583,629. 7 Claims. (Cl. 83—54.)



4. Apparatus for separating coal and impurities mingled therewith, comprising a pipe system or conduit having a plurality of vertical chambers with discharge openings at their lower ends and of successively larger cross section; closures for said discharge openings, adapted to open under weight of predetermined accumulation of material in the chambers; means for causing a continuous flow of air through the conduit and chambers; and means for introducing into the first chamber of the series a continuous stream of mingled coal and impurities, the conduit connecting the several chambers and serving to carry from each to the next the product less the impurities already removed.

1,455,470. SPARK INTENSIFIER. IRVING J. AMATO, Pittsfield, Mass., assignor of one-half to Raymond D. Tufts, Pittsfield, Mass. Filed Dec. 22, 1919. Serial No. 346,577. 6 Claims. (Cl. 175—183.)

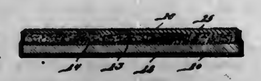


1. A spark intensifier including a cylindrical cable receiving body having an exterior annular groove forming an interior annular shoulder adapted for gripping the cable, a locking device seated in said groove for contracting said body, and a post carried by said body.

1,455,471. METHOD OF PREPARING PULP. CARL BACHE-WIIG, Portland, Me.; Bertha M. Bache-Wiig executrix of said Carl Bache-Wiig, deceased. Filed Apr. 27, 1918, Serial No. 231,204. Renewed Dec. 22, 1919. Serial No. 346,769. 3 Claims. (Cl. 92—11.)

1. The method of treating straw, cornstalks and other cellulosic substances for the preparation of pulp for paper which consists in two successive treatments, first, treating the material with sodium chloride to soften but not destroy the ligneous matter, and second, cooking the treated mass with a bisulphite pulp forming liquor of such strength that the fiber will not be destroyed.

1,455,472. STAMP-INKING PAD. WILBUR BELL, Marengo, Iowa. Filed Jan. 9, 1922. Serial No. 528,032. 1 Claim. (Cl. 91—54.5.)



An inking pad comprising a containing receptacle provided with a cover, a base of rigid material mounted

within the receptacle, a sheet of blotter mounted upon the top of the base, a rubber sponge disposed upon the blotter, a sheet of absorbent felt disposed upon the top of the sponge, and a fabric covering for the sponge, felt and base.

1,455,473. TOY. GEORGE J. BOLTON, Sayre, Pa. Filed Mar. 11, 1922. Serial No. 543,066. 1 Claim. (Cl. 46—49.)



The combination with a metallic receptacle having an open top covered by a sheet of glass, of a plurality of figures within the receptacle and attracted by the glass upon static charging of the same, and elements tethered to the figures and limiting the movement thereof to prevent flat engagment of the figures with the glass, said elements being provided with a metallic coating.

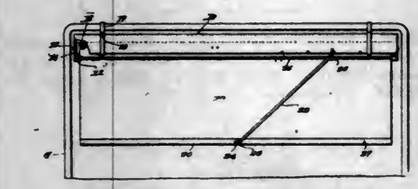
1,455,474. SIGN. FRANK EARNEST BROWN, Seattle, Wash. Filed June 16, 1922. Serial No. 568,888. 2 Claims. (Cl. 40—133.)



1. An illuminated sign comprising a casing, a transversely curved back and side walls connected to the back, a guide member applied to the forward side of said casing, a supporting body slidable through said guide member and consisting of inner and outer spaced pieces of screen, characters detachably applied to the outer piece of screen, a transparent filling applied to the inner piece of screen, and a source of light arranged within the casing, the casing being provided on its inner side with reflecting means and a coat of coloring.

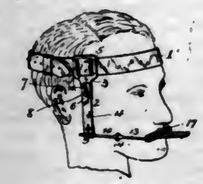
1,455,475. WINDSHIELD SHADE. HERMON H. BULLOCK, Walden, N. Y. Filed Apr. 10, 1922. Serial No. 551,143. 1 Claim. (Cl. 296—97.)

A wind shield attachment comprising a housing adapted to be supported by the wind shield, a shade roller journaled in the housing, a shade adapted to be wound about and wound from said roller, a rod having one end pivotally associated with the lower edge of said shade, means carried by the opposite end of said rod and designed to engage the adjacent wall of said housing, to hold the shade in a lowered position, said rod being adapted to be arranged in parallel relation with the lower edge



of the shade to hold the lower edge of the curtain in inactive position, means carried by the curtain for supporting said rod in its inactive position for the purpose specified.

1,455,476. HOLDING OR SUPPORTING MEANS FOR RADIUM-APPLYING MEANS. WILLIAM H. CAMERON, Pittsburgh, Pa., assignor to Radium Chemical Company, Pittsburgh, Pa. Filed Feb. 21, 1922. Serial No. 538,172. 7 Claims. (Cl. 174—89.)



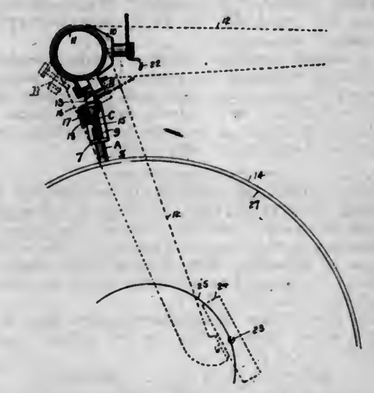
1. Means for supporting a radium-carrying device in the treatment of mouth and throat affections, comprising a holder, adjustable means for supporting said holder in front of the mouth of a patient, means for attaching said supporting means to the head of a patient, an applicator having laterally adjustable connection with said holder, means for adjustably connecting a radium-carrying device with said applicator, and flexible means connected with said applicator for effecting yielding pressure of the radium-carrying device to the affected part.

1,455,477. STONE-CUTTING WHEEL. ELROY ALBERT CHASE, Northfield, Vt. Filed June 13, 1921. Serial No. 477,005. 5 Claims. (Cl. 51—209.)



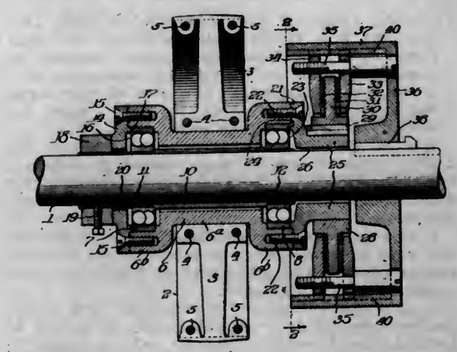
1. A wheel for dressing stone having, in combination, a rotatable supporting structure and a plurality of work engaging members disposed in an outwardly extended series of curved paths on the lower face of said supporting structure, said members providing a working face for said wheel formed of a succession of relatively short flat stone-engaging surfaces separated by recesses extending upward from the working face toward the supporting structure and having the rearward portion of the top of each recess gradually approaching the plane of the working face of the wheel.

1,455,478. AUTOMATIC STARTING AND STOPPING ATTACHMENT FOR DISK-TYPE TALKING MACHINES. WALTER LOCKHART COWEN and CLIVD ALFRED FRIEND, Sydney, New South Wales, Australia, assignors to Leopold Rogaly, Sydney, New South Wales, Australia. Filed Dec. 15, 1921. Serial No. 522,693. 8 Claims. (Cl. 192—124.)



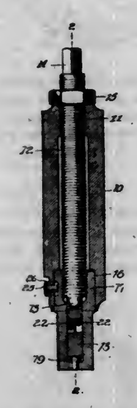
1. An improved automatic starting and stopping attachment for disk type talking machines comprising a slidably mounted plunger having at one end a friction brake shoe and the other end a helical groove, a coil spring controlling said plunger, said plunger being provided with a notch, a pawl depending from the producer arm neck adapted to engage said helical groove, a hinged spring controlled detent adapted to engage said notch and an adjustable finger attached to the reproducer arm and adapted to engage said detent substantially as and for the purpose herein set out.

1,455,479. PULLEY AND SIMILAR CONSTRUCTION. WILLIAM F. DAGGETT, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,885. 9 Claims. (Cl. 64—36.)



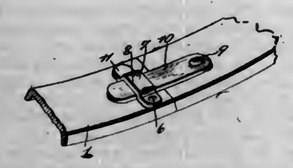
6. A device of the class specified comprising a pulley device having a central hub member provided with enlarged ends, a split pulley mounted on the central part of said hub device, ball bearings within the enlarged ends of said hub member, a sleeve within said hub member and having reduced ends on which the ball bearings are mounted, closures for the opposite ends of said hub member, said closures being secured to the hub member by screws and one of said closures having an extension extending longitudinally of the rotary shaft on which the device is mounted, said extension having a bore of greater diameter than said shaft, a supplemental device mounted on said extension, and a collar provided with an adjustable screw to secure said inner sleeve to said shaft, said supplemental device comprising a friction drive having friction members mounted on said extension and keyed thereto and a rim member mounted on the shaft and keyed to the same.

1,455,480. HOLDER FOR REAMERS. JOHN DLESK, Berwyn, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 12, 1920. Serial No. 380,823. 4 Claims. (Cl. 77—58.)



1. A holder for a rectangular shaped reamer body having oppositely disposed cutters comprising a transversely slotted member closed at one end, a centrally located projection in said closed end adapted to engage a central opening in the reamer body, a tubular member enclosing the open end of said slotted member and a screw threaded into the open end of said slotted member and bearing upon said reamer body.

1,455,481. SPLIT DEMOUNTABLE RIM. HUGH E. GEIVER, Wessington, S. Dak. Filed Aug. 9, 1920. Serial No. 402,200. 1 Claim. (Cl. 301—32.)



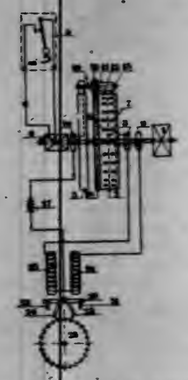
The combination with a pair of rim sections, of means for hingedly uniting said sections, said rim sections having separable abutting ends, a fastening lever pivoted to the inner surface of the rim adjacent one of said abutting ends and adapted to assume a position in alignment and concentric with the rim and overlying the other abutting end when the two ends adjoin, a clasp operatively carried on the inner surface of the rim near one edge and adjacent said other abutting end, said clasp being constructed of spring metal and provided with an angular recess to correspond to and receive the fastening lever transversely, said clasp assuming a position transversely of the rim and overlying the lever, whereby upon springing the free end of the clasp inwardly of the rim, said lever may be moved laterally on its pivot to separate the abutting ends.

1,455,482. INDICATOR FOR TIMEPIECES. DORA P. GLEASON, Cincinnati, Ohio. Filed June 11, 1921. Serial No. 476,928. 2 Claims. (Cl. 58—57.)



1. In a device of the class described the combination of a band adapted to be mounted on a time-piece and a pointer hingedly mounted on the band adapted to assume a position over the face of the time-piece and a position spaced from the face of the time-piece.

1,455,483. ELECTROMECHANICAL DIFFERENTIAL GOVERNOR. ROBERT B. GOLDSCHMIDT and RAYMOND BRAILLARD, Paris, France. Filed May 24, 1920. Serial No. 383,920. 5 Claims. (Cl. 172—293.)



1. Electro-mechanical differential governor means comprising in combination a first organ, constant speed rotating means therefor, a second rotating organ operated by the machine to be controlled and comprising two series of electric contacts upon which are adapted to slide respectively two levers controlled by the constant speed organ, two electro-magnets excited by an electric source of current, the said electro-magnets acting upon a pivoted rotor which is provided with two reversely arranged pawls respectively engaging two toothed wheels which act in different direction upon the regulating organ of the machine to be controlled.

1,455,484. IRON REST AND CLEANER. LORENZ D. GRENDA, Chicago, Ill. Filed Aug. 11, 1921. Serial No. 491,420. 1 Claim. (Cl. 68—27.)



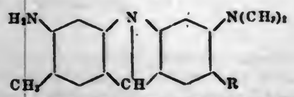
A device of the character described comprising a frame consisting of a plate formed with a depending marginal flange and with an upstanding marginal flange, a sheet of asbestos superposed on the plate and engaging at its edges with the upstanding flange, and cleaning and polishing means superposed on the asbestos sheet and having a friction-tight fit with the inner walls of the upstanding flange, said means comprising a filler and a fabric cover therefor, said filler and said fabric cover being impregnated with a substance having waterproofing, polishing, and rust-preventing qualities.

1,455,485. MEDICAL COMPOUND. WILLIAM C. GROVE, Basic, Va. Filed July 26, 1922. Serial No. 577,747. 3 Claims. (Cl. 167—7.)

1. A medical compound including a liquid preparation of *Tephrosia virginiana* and a lithia salt in solution, the *Tephrosia virginiana* being in such proportions as to cause the *Tephrosia virginiana* to reduce the sugar content in and insipidity of the urine and the lithia salt to activate as a solvent and diaphoretic.

1,455,486. DYES OF THE ACRIDINE SERIES AND THEIR MANUFACTURE. HEINRICH GRÜNHAGEN, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 29, 1916, Serial No. 112,130. Renewed Sept. 10, 1920. Serial No. 409,494. 8 Claims. (Cl. 260—36.)

1. As new articles of manufacture, new dyes of the acridine series corresponding to the general graphic formula:



in which formula R indicates a univalent alkyl radical.

5. As a new process for manufacturing dyes of the acridine series the process which consists in heating a formyl derivative of a C-alkylated meta-diamine of the benzene series with a salt of a C-alkylated and N-alkylated meta-diamine of the benzene series.

6. As a new process for manufacturing dyes of the acridine series the process which consists in heating a formyl meta-toluylene-diamine with a salt of an N-alkylated meta-diamine of the benzene series.

8. As a new process for manufacturing dyes of the acridine series the process which consists in heating formyl-meta-toluylene-diamine with the hydrochloride of 4-amino-2-dimethylaminotoluol.

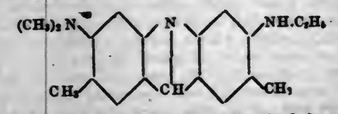
1,455,487. DYES OF THE ACRIDINE SERIES AND PROCESS FOR THEIR MANUFACTURE. HEINRICH GRÜNHAGEN, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 29, 1916, Serial No. 112,131. Renewed Sept. 10, 1920. Serial No. 409,495. 6 Claims. (Cl. 260—36.)

1. As a new process for manufacturing dyes of the acridine series the process which consists in heating a formyl-derivative of an N-alkylated meta-diamine of the benzene series with a salt of a meta-diamine of the benzene series.

4. As a new process for manufacturing dyes of the acridine series the process which consists in heating 4-formyl-amino-2-dimethylaminotoluene with an N-alkylated meta-toluylenediamine-hydrochloride.

5. As a new process for manufacturing dyes of the acridine series the process which consists in heating 4-formyl-amino-2-dimethylaminotoluene with 4-amino-2-ethylaminotoluene-hydrochloride.

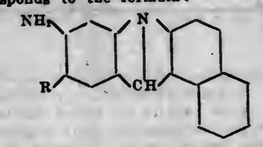
6. As a new article of manufacture the new acridine dye corresponding to the formula:



which dye in the dry state when pulverized forms a red-brown powder dyeing leather clear and deep yellow tints.

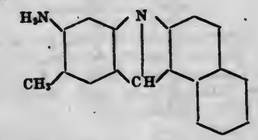
1,455,488. DYES OF BENZENE-NAPHTHALENE-ACRIDINE SERIES AND THEIR MANUFACTURE. HEINRICH GRÜNHAGEN, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 29, 1916, Serial No. 112,197. Renewed Sept. 10, 1920. Serial No. 409,496. 6 Claims. (Cl. 260—36.)

1. As new articles of manufacture new dyes of the acridine series the underlying general graphic formula of which corresponds to the formula:



in which R represents hydrogen or an alkyl group.

2. As a new article of manufacture a new dye of the acridine series the constitution of which corresponds to the formula:



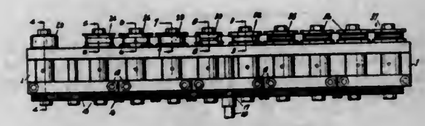
which in the dry state and pulverized forms a brown powder and dyes leather clear and deep yellow tints.

4. As a new process for the manufacture of new dyes of the acridine series the process which consists in heating a formyl derivative of a C-alkylated meta-diamine of the benzene series with a salt of a beta-naphthylamine in equimolecular proportions.

5. As a new process for the manufacture of new dyes of the acridine series the process which consists in heating a formyl derivative of meta-toluylenediamine with a salt of a beta-naphthylamine in equimolecular proportions.

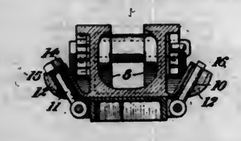
6. As a new process for the manufacture of a new dye of the acridine series the process which consists in heating formyl-meta-toluylenediamine with beta-naphthylamine-hydrochloride in equimolecular proportions.

1,455,489. FORMING MACHINE. JAMES A. HENRY and THADDEUS S. WAIT, Sturgis, Mich. Filed Jan. 9, 1922. Serial No. 528,107. 8 Claims. (Cl. 153—54.)



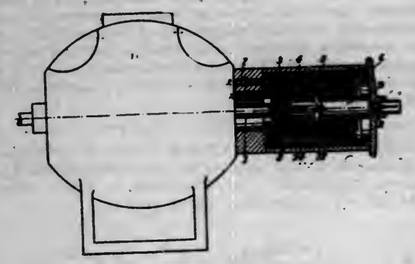
1. In a structure of the class described, the combination of feed and forming rollers arranged in coacting pairs one above the other, shafts therefor, connecting gears for each pair of shafts, connecting gears for the several pairs of gears, spaced supporting plates for said shafts having bearing member openings for the upper shafts, one of said plates having inverted T-shaped slots disposed between and with the cross portions of the slots opening into adjacent bearing member openings, bearing members for said upper shafts having eccentric portions disposed in said bearing member openings whereby the shafts may be adjusted to adjust the rollers, and screws engaging the slotted portions of said plate to clamp the same upon the said bearing members whereby they are secured in their adjusted positions.

1,455,490. REMOVABLE GROUSER FOR TRACK LINKS. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 20, 1918. Serial No. 235,644. 7 Claims. (Cl. 305—10.)



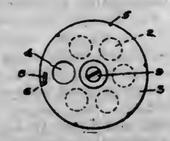
1. In combination with a track-link having a permanent shoe formed with a comparatively smooth and even tread surface, with its inner and outer sides formed with upstanding portions, means for converting the smooth tread surface of the shoe into an irregular surface, comprising a detachable grouser to fit over the tread surface of the shoe, and means carried at opposite ends of the grouser to grip the upstanding portions of the shoe for retaining the grouser in place.

1,455,491. ELECTRIC CLUTCH COUPLING FOR USE IN DENTAL TECHNICS. EMILE HUET, Brussels, Belgium. Filed Aug. 11, 1921. Serial No. 491,642. 3 Claims. (Cl. 192—84.)



3. In a dental machine, the combination of an electric motor having a shaft, a flexible shaft having one end connected with a dental tool and the other end in alignment with the motor shaft, a solenoid having an axial bore disposed in axial alignment with the motor shaft and electrically connected for energization with the motor, a pair of clutch members mounted in the axial bore, one member being rigid on the motor shaft and the other member mounted on the flexible shaft, and means for normally disengaging said members, whereby upon the operation of the motor the solenoid is energized for moving the clutch members into cooperative relation, and said means disengages the members when the solenoid is de-energized.

1,455,492. DETONATOR MAGAZINE. ARTHUR M. JAMES, Johnstown, Pa. Filed Apr. 8, 1922. Serial No. 550,745. 3 Claims. (Cl. 206—3.)



1. A detonator magazine including a body having spaced circumferentially arranged pockets for detonators, a closure pivotally secured to the body and having a single opening therein designed, when turned to certain

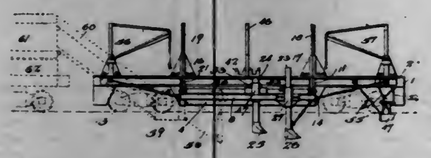
positions to register with the respective detonator pockets, and when brought to another position, to be brought out of register with any of the compartments, means engaging the closure for locking the same in its last mentioned position, and said means also latching the closure in any of its first mentioned positions.

1,455,493. DRAWBAR AND POWER ATTACHMENT FOR TRACTORS. NOAH O. JOHN, Marshall, Okla. Filed July 17, 1922. Serial No. 575,514. 4 Claims. (Cl. 180—14.)



1. The combination with a tractor having a drive shaft and a housing therefor, of a drawbar for a trailing implement rigidly secured to said housing, a revoluble member mounted in said drawbar and having positive connection with said drive shaft, flexible means connecting said member with the actuating shaft of said implement, said means including a clutch at the adjacent end of said actuating shaft, and a telescopic shaft having a knuckle joint at each end one of said knuckle joints being inserted between said member and said telescopic shaft, a bearing bracket on said implement and a stub shaft mounted in said bearing bracket and having slidable connection with said clutch.

1,455,494. DITCHING MACHINE. JOHN H. JOHNSON, Charleston, S. C., assignor of one-fourth to Thomas Marks, Charleston, S. C. Filed June 14, 1922. Serial No. 568,102. 6 Claims. (Cl. 37—105.)



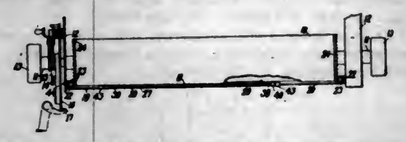
1. The combination with a supporting vehicle, of a longitudinally extending, hinged side frame and means on the side of the car for supporting said frame in working position, means for raising and lowering said hinged frame, a bracket-holder longitudinally adjustable on said frame, and a vertically adjustable plow beam supported in said bracket-holder.

1,455,495. MERCURY DERIVATIVES OF AROMATIC COMPOUNDS AND PROCESS OF MANUFACTURING SAME. AUGUST KLAGES, Magdeburg-Südost, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 4, 1915, Serial No. 6,062. Renewed Dec. 9, 1919. Serial No. 343,641. 8 Claims. (Cl. 260—13.)

1. The hereindescribed process of preparing mercury derivatives of phthaleins, which consists in boiling neutral solutions of alkali salts thereof with a large excess of a mercuric salt solution.

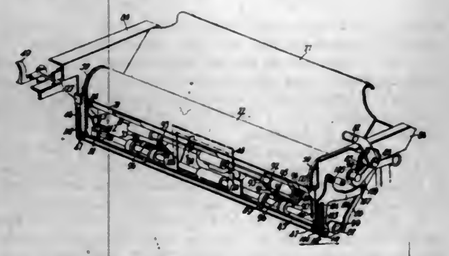
8. As a new article of manufacture, a tetrabrom fluorescein mercuric derivative, insoluble or only slightly soluble in the usual organic solvents, excepting glacial acetic acid in which it is sparingly soluble, soluble in solutions of sodium carbonate and caustic alkalis forming a solution having a red color.

1,455,496. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 26, 1919. Serial No. 313,431. 25 Claims. (Cl. 197—135.)



1. In a front-strike typewriting machine, the combination with a revoluble platen, of a card-holding frame, crown gears at the ends of the platen and substantially flush with the periphery thereof, racks lying substantially within a plane tangent to the periphery of the platen and meshing with said gears and forming the ends of the frame, and a card-holding cross-bar forming a part of the frame and connecting said racks.

1,455,497. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 30, 1919. Serial No. 320,866. 28 Claims. (Cl. 197—135.)



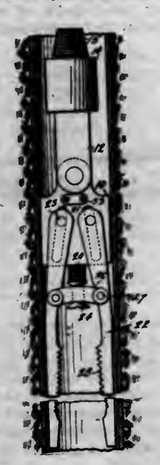
1. In a front-strike typewriting machine, the combination with a platen and a paper-table adapted to guide sheets around beneath the platen, of a line-spacing mechanism, front feed-rolls to run upon the platen, a card-holding device at the front of the platen and connectible to rise at a line-spacing operation, and a finger-piece shiftable to connect the card-holding device to the line-spacing mechanism, and adapted to move the feed-rolls rearwardly out of the way of the card-holding device.

1,455,498. COIN BANK. ISIDOR J. KUSEL, Chicago, Ill., assignor to Stronghart Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1920. Serial No. 349,466. 6 Claims. (Cl. 232—4.)



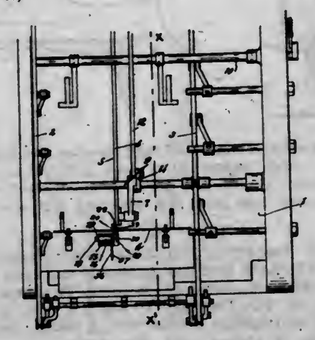
1. A coin bank having a coin slot the edges of which extend downwardly, spring coin engaging slips arranged in rows along opposite edges of the coin slot, said clips extending substantially to the middle portion of the slot and being normally in contact with the lowermost part of the edges of the coin slot, whereby the clips yield downwardly to permit insertion of a coin between the rows of clips and are held by the edges of the slot against movement upwardly from their normal position.

1,455,499. WELL FISHING TOOL. CHARLES E. LANG, Wichita Falls, Tex. Filed Mar. 5, 1921. Serial No. 450,044. 7 Claims. (Cl. 294—116.)



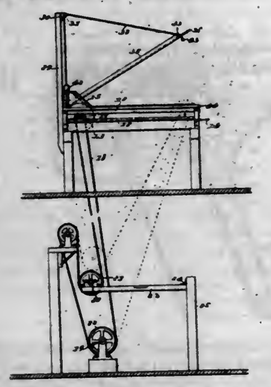
1. In a fishing tool, a head having diverging slots, grabbing members having upper portions engaging in said slots, whereby said members are swung when moved vertically, a spring pressed plunger carried by said head relatively between said slots and to which said grabbing members are pivoted intermediate their ends, and means for holding said members retracted under tension of the spring pressed plunger arranged to automatically release said members and said plunger and to automatically latch when said parts are returned to their normal position.

1,455,500. REGISTER FOR PRINTING MACHINES. JOSEPH LEWIS, Winnipeg, Manitoba, Canada. Filed May 3, 1919. Serial No. 294,447. 1 Claim. (Cl. 235—98.)



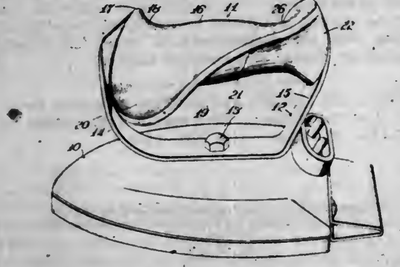
In a folding press, the combination with a paper delivering means, a counter, and a moving paper folding member, of a controlling lever connected to the counter and normally engaging the folding member and adapted to follow the movement thereof to effect the operation of the counter and a self-setting trip lever normally engaging and locking the controlling lever against movement and provided with a foot piece extending into the path of the delivered paper and adapted to be actuated thereby to release the controlling lever and permit it to follow the movement of the folding member.

1,455,501. CLOTH-CUTTING MACHINE. CHARLES J. MCGEE, Osceola, Ark. Filed June 2, 1921. Serial No. 474,342. 1 Claim. (Cl. 164—77.)



In a cutter for cloth in superimposed layers, a table, guides transversely arranged in spaced relation to each other under the table, a carriage mounted for movement on the guides, a shaft rotatably mounted in the carriage, a cutter on the said shaft, a belt operating over the shaft for driving the same, pulleys over which the said belt is operative, a hingedly mounted pulley engaging the said belt, means for moving the carriage in one direction and elevating the hingedly mounted pulley, the said pulley being operative to return the carriage to its normal position.

1,455,502. IMPLEMENT HANDLE. LEWIS H. MEATZ, Chicago, Ill. Filed Jan. 16, 1922. Serial No. 529,495. 3 Claims. (Cl. 68—26.)

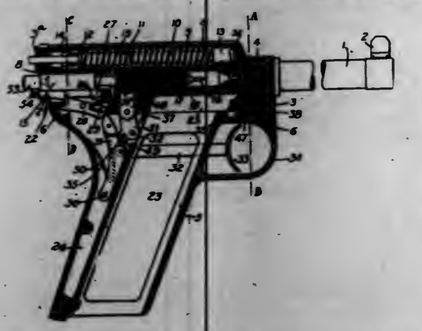


1. An implement handle comprising a smooth body portion for the palm of the hand formed with a web extending continuously along one side of and around the front and rear ends of the handle having a smooth surface for the fingers, said web projecting downwardly and laterally from the body at the front end and being formed with a thumb depression.

1,455,503. AUTOMATIC FIREARM. ROBERTO MUSITELLI, Brescia, Italy. Filed Oct. 12, 1916. Serial No. 125,181. 1 Claim. (Cl. 42—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

An automatic firearm, comprising in combination, a body portion, a breech block support mounted thereon having an opening in one side wall thereof, a breech block slidable in said support and having a longitudinal recess in the side wall thereof remote from the opening in the support, a firing pin slidable in the breech block, trigger-operated means for controlling the operation of said firing pin, and a stop pivotally mounted in

a lateral aperture in the other side wall of the breech block support in position to engage and eject a cartridge through said opening, said stop normally working in the



recess in the breech block but movable to extend transversely of said recess to prevent the return movement of the block.

1,455,504. BRUSH. DANIEL E. ODOM, Bennettsville, S. C. Filed Feb. 20, 1922. Serial No. 537,963. 5 Claims. (Cl. 274—1.)



1. A cleaning device for a sound reproducing record comprising a housing, a cleaning element movable into and out of the housing, said element when positioned outwardly of the housing being in position to engage the record to be cleaned, and means carried by the housing and coacting with the cleaning element when said element is moved to cleanse said cleaning element.

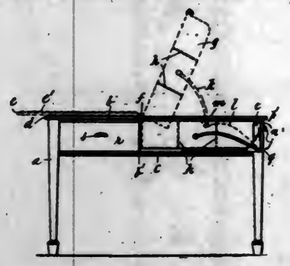
1,455,505. FILTERING APPARATUS. WILLIAM PATERSON, London, England. Filed Sept. 9, 1922. Serial No. 587,185. 3 Claims. (Cl. 210—145.)



2. Filtering apparatus of the type referred to comprising a main collecting and distributing header having a plurality of apertured bosses along its upper surface, a T-piece loosely inserted into each of said apertures, apertured pipes secured to the lateral parts of the head of each T-piece, and clamping means for holding said T-pieces in position, the limb of each T-piece extending into the header and provided with a vent hole arranged within the header.

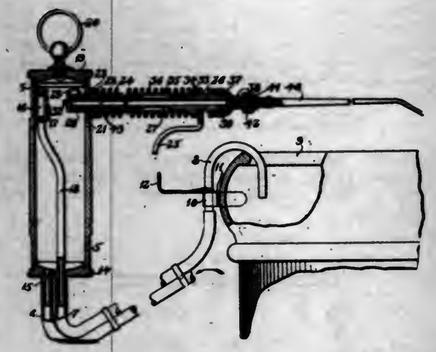
1,455,506. TABLE ADAPTED TO BE USED AS COOKERY CABINET. ERNEST PATEY, Norbury, England. Filed Feb. 13, 1922. Serial No. 536,348. 1 Claim. (Cl. 45—17.)

In a combined table and cookery cabinet, the provision of a table frame having a top formed in two portions, one of which is fixed to the table frame, the other being hinged thereto and movable, and a box or cabinet hinged to the table frame and adapted to be moved with the movable portion of the table top, means for locking the box or cabinet to the movable portion of the table top to enable the two to be drawn up together until the cabinet is in a vertical position, said movable portion of the table top being then capable of being unlocked from the said box or cabinet and folded back up on to the fixed



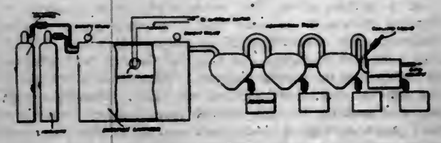
portion of the table top to form a working space, means for holding the box or receptacle in its vertical position when the table is open, and means for locking the movable portion of the table top and with it the box or receptacle to the table frame when the same are closed, the whole being constructed and arranged so that the same amount of leg room is available beneath the table frame as with ordinary tables at present in use.

1,455,507. SYRINGE. WILLIAM A. PERVIER, Allston, Mass., assignor to Charles E. Parkhurst, Somerville, Mass. Filed Aug. 11, 1921. Serial No. 491,599. 17 Claims. (Cl. 128—229.)



1. A syringe comprising a fluid chamber forming a hand grip, a nozzle supported by and communicating with the chamber, a normally open outlet, and selective means for diverting fluid from said outlet to said nozzle.

1,455,508. PROCESS OF MAKING THE CHLORINATED PRODUCTS OF METHANE. ERNST HERMANN RIESSENFELD, Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 4, 1918. Serial No. 256,929. 4 Claims. (Cl. 260—166.)



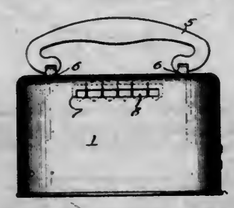
1. In a system for the production of chlorinated products of methane from a mixture of chlorine and methane,

the improvement which consists in installing devices which prevent a sudden release and stoppage of the flow of gas to and from reaction chambers.

1,455,509. METHOD OF REFINING MIXTURES OF CHLORIDES OF NAPHTHALENES SERVING AS SUBSTITUTES FOR ROSIN. KARL RÜCKER, Berlin-Marienfelde, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 14, 1918, Serial No. 262,628. Renewed Feb. 9, 1923. 2 Claims. (Cl. 260—161.)

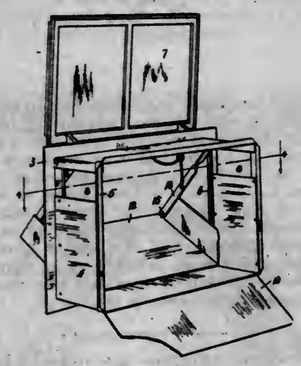
2. Method of refining mixtures of chlorides of naphthalenes serving as substitutes for rosin, consisting in a current of indifferent gases being sent through the said mixture after the same has been melted and heated to a temperature of 215° C.

1,455,510. SMALL SAVINGS BANK. ELI A. RUSSELL, Chicago, Ill., assignor to Stronghart Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1921. Serial No. 483,444. 18 Claims. (Cl. 232—4.)



1. A small bank having inner and outer coin slots and means for protecting the inner slot.

1,455,511. WINDOW CHUTE. JAMES M. TRIGGS, Huntington, Ind., assignor to The Majestic Company, Huntington, Ind., a Corporation of Indiana. Filed Jan. 19, 1922. Serial No. 530,296. 2 Claims. (Cl. 189—46.)



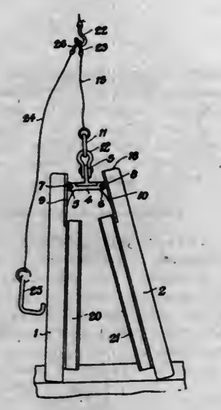
1. A chute frame of the class described, comprising inner and outer edge frames and a casing connecting the edge frames and having openings near the tops of the chute frame sides between the edge frames, the edge frames having flanges projecting outward from the casing to cooperate therewith to form vertical channels to receive a cementitious anchoring material when the frame is mounted in a wall opening.

1,455,512. OPHTHALMIC MOUNTING. GEORGE L. TULLY, Southbridge, and WILLIAM H. BOUTELLE, Sturbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 24, 1922. Serial No. 556,158. 3 Claims. (Cl. 88—53.)



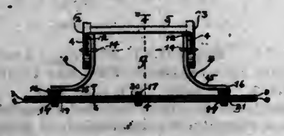
1. In a device of the character described, the combination with an end piece, of a temple, means for pivoting the temple to the end piece, a cap member interlocking with the pivot, and means for detachably securing the cap member in interlocked position.

1,455,513. SHIP'S HATCH. EDWARD ELIAS VON TELL, Gottenborg, Sweden. Filed Jan. 13, 1923. Serial No. 612,392. 5 Claims. (Cl. 114—201.)



1. Construction of ships' hatches, comprising the combination with a pair of hatch members, of a beam, hinges connecting the adjacent edges of the hatch members to the beam arranged to allow the hatch members to fold downwards when the beam is lifted, but not to allow the hatch members to fold upwards above the closed position of the hatch members, and means for enabling a lifting device to engage with the beam for lifting, removing, and lowering the hinged pair of hatch members to open and close the hold of the vessel.

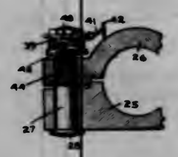
1,455,514. AUTOMOBILE BUMPER. EDWARD V. ALLEN, Waukegan, Ill. Filed Nov. 4, 1921, Serial No. 512,774. Renewed Mar. 19, 1923. 6 Claims. (Cl. 293—55.)



6. The combination with an automobile frame, of a bumper consisting of a pair of bars formed with upward

and downward curves, the downward curves of one bar meeting the upward curves of the other bar intermediate of the ends of said bars, said ends being oppositely inclined at an upward and downward angle, respectively, means for clamping said bars together at their meeting portions, a pair of supporting arms having loops or eyes at their outer ends adapted to be engaged by said clamping means, and means for clamping together said arms and the side-rails of said frame.

1,455,515. ATTACHMENT FOR BEARINGS. JOHN ALBERT ANDERSON, Geneseo, Ill. Filed Sept. 9, 1920. Serial No. 409,202. 3 Claims. (Cl. 85—32.)



1. In a device of the class described, a bolt and a nut having cooperating threads; a rotatable member; means for supporting said member on the bolt for rotation independently of the threads of the bolt; means independent of the nut and bolt for holding said member releasably against rotation; and a torsion spring connecting the rotatable member and the nut.

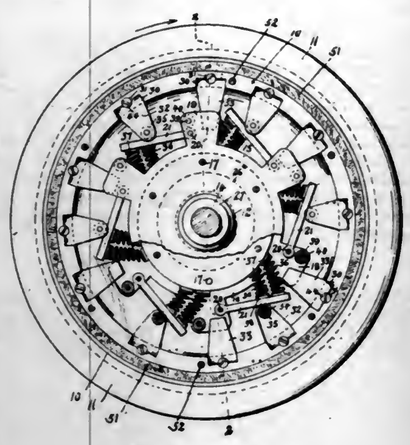
1,455,516. ATTACHING DEVICE. GEORGE SAMUEL ANDRES, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,871. 2 Claims. (Cl. 292—250.)



1. An attaching device including a pivoted shackle, a pawl pivotally mounted thereon and a boss cast integral with one of the members to be fastened, said pawl having two flat surfaces tangent to circles with centers at the axis of the pawl, said surfaces making an angle of approximately ninety degrees and engaging in the locked position with complementary surfaces on the boss.

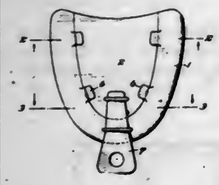
1,455,517. RESILIENT WHEEL. ARNOLD JUCUM ARNOLDSON, Elsinore, Utah. Filed May 12, 1922. Serial No. 560,414. 3 Claims. (Cl. 152—28.)

1. A wheel of the class described comprising an annular rim, a plurality of stop members in spaced relation and extending inwardly from said rim, each alternate stop having a bearing roller, a hub member rotative with an axle, a plurality of bearing bars swinging relative to said hub member and bearing respectively against said bearing rollers, springs supporting said swinging bars



in yieldable engagement with said bearing bars, stop rollers carried by said hub member and extending into the paths of the other alternate stop members.

1,455,518. DENTAL TRAY. LOUIS BALTER, New York, N. Y. Filed Mar. 3, 1922. Serial No. 540,683. 2 Claims. (Cl. 32—6.)

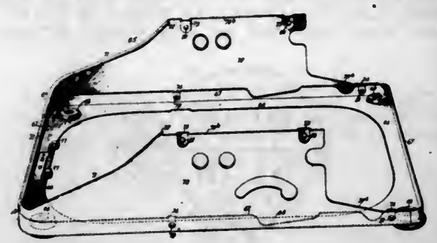


1. A dental impression tray, comprising an inner member arranged to hold moulding material in taking impressions of the palatal arch and upper jaw, a separable outer member surrounding said inner member on all sides except at the back thereof, a flange formed on the inner side of said outer member, a flange formed on the outer side of said inner member, the edges of said flanges being arranged to abut and form a sharp edged ridge of a shape approximating that of a set of teeth, and a handle having a portion arranged to co-operate with means formed on the bottoms of said tray members to hold the same together when in use.

1,455,519. TYPEWRITING MACHINE. JOHN H. BARR, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 8, 1922. Serial No. 559,119. 16 Claims. (Cl. 197—186.)

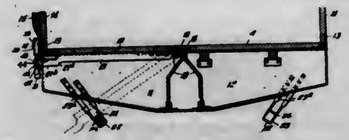
1. In a typewriting machine, the combination of an inner sheet metal frame on which working parts of the machine are supported, and an outer surrounding sheet metal frame detachably fixed to said inner frame, said outer frame comprising two sheet metal members fixedly

united and each formed from a single piece of sheet metal, one member being in the nature of a rectangular



frame substantially L-shaped in cross section, and the second member being outside of the first mentioned member and surrounding it on three sides.

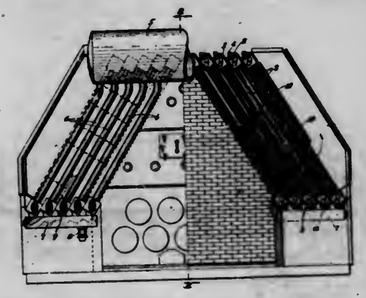
1,455,520. DUMP CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1922, Serial No. 532,734. Renewed Feb. 16, 1923. 12 Claims. (Cl. 105—244.)



1. A dump car having a flat bottom, the said flat bottom on each side of the center having alternated floor doors and fixed floor sections, the doors on one side of the car being transversely opposite the fixed floor sections on the other side of the car.

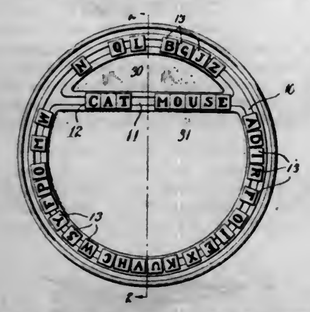
6. In a dump car, the combination with an underframe comprising a center sill and cross-members; of a side dump floor door, pivoted along its inner edge at the center sill; and means for limiting the opening movement of said door, including, a bar beneath the door and extending lengthwise of the car from one cross member to the next adjacent cross member.

1,455,521. WATER-TUBE BOILER. DAVID E. G. CLARKE, Bayonne, N. J. Filed Mar. 13, 1918. Serial No. 222,073. 2 Claims. (Cl. 122—324.)



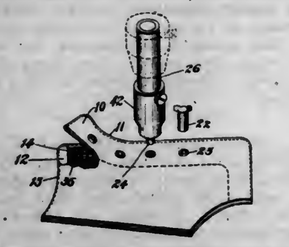
1. In a steam generating system, a water circulating system for the generation of steam comprising a horizontal, elongated drum adapted to be filled partly with water when in use, a plurality of horizontal, upper headers extending at right angles to said drum with one end of each header adjacent the side of said drum and connected therewith below the water level of said drum and with the series of ends extending side by side along said drum, a plurality of horizontal, lower headers spaced apart from and below and corresponding in number to said upper headers but so arranged that straight lines drawn between corresponding upper and lower headers will form a series of inverted V's to provide a space for the heating medium, downcomers connected to said drum below its water level and to said lower headers, and a plurality of tubes connecting corresponding upper and lower headers to form therewith a complete separable unit, whereby the heating medium will pass from the inverted V formed by said tubes through said tubes and heat the water therein so that it will circulate from said tubes through their upper headers, the drum, the downcomers, the lower headers, and again into the tubes.

1,455,522. EDUCATIONAL DEVICE. HORATIO G. CRESS, Troy, Ohio. Filed Sept. 28, 1922. Serial No. 591,066. 8 Claims. (Cl. 35—9.)



1. A device of the character described, comprising a supporting plate having a facing plate attached thereto and cooperating therewith to provide channels and a hollow bead formed in part by the marginal portion of one of the plates, said bead extending around the device and outside said channels.

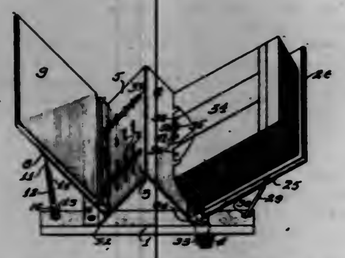
1,455,523. ART OF SHOEMAKING. HENRY T. DOULETT, Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Nov. 13, 1914, Serial No. 871,990. Patent No. 1,434,356, dated Oct. 31, 1922. Divided and this application filed Mar. 1, 1915. Serial No. 11,201. 9 Claims. (Cl. 218—29.)



1. In the manufacture of boots and shoes, that method which consists in permanently securing together the leather and lining parts of an upper in the relation which they are to have in the finished shoe, punching a hole through both parts, passing an upsetting surface

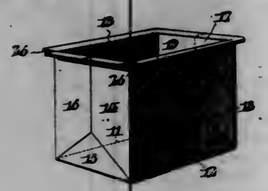
through the hole in the leather part to locate it between the two parts and inserting the barrel of an eyelet through the lining part, and finally clenching the eyelet barrel against the upsetting surface and upon the lining part.

1,455,524. LOOSE-LEAF-BINDER SUPPORT. CHARLES R. FARGO, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Co., Chicago, Ill., a Corporation of Illinois. Filed July 12, 1918. Serial No. 244,531. 2 Claims. (Cl. 45—57.)



1. In a loose leaf binder support, oppositely inclined end members each having a plurality of vertically spaced slots, side members having projecting spurs adapted for detachable pivotal engagement with said slots, and adjustable braces for supporting said side members.

1,455,525. METHOD OF MANUFACTURING SHEET-METAL RECEPTACLES OR CONTAINERS. HENRY B. FINLEY, Chattanooga, Tenn. Filed Jan. 27, 1922. Serial No. 532,236. 1 Claim. (Cl. 113—112.)



The method of constructing a receptacle which consists in providing a rectangular sheet metal blank centrally in opposite edges with two adjacent V-shaped notches, bending the blank perpendicularly along parallel lines extending respectively across the vertices of each pair of notches and also along lines at right angles, meeting the vertices of respectively opposite notches without intersecting the sides of the latter, with production of the bottom and four sides of the receptacle having sharp corners, bending the perimetrical edges of the blank outwardly in opposite directions to form flanges defining square recesses at the ends of the flanges, inserting rectangular filling pieces in said recesses, and welding together the edges of the blank, and the filling pieces to the flanges to form an integral structure having a single continuous flange.

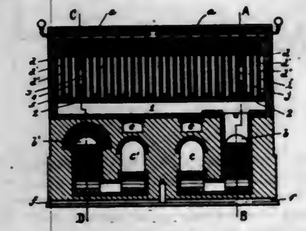
1,455,526. REAR-SIGNAL DEVICE FOR AUTOMOBILES. STANLEY A. FLOWERS, Pittsburgh, Pa., assignor of one-third to J. Lewis Palley and one-third to John Heaton, both of Pittsburgh, Pa. Filed Apr. 3, 1922. Serial No. 548,911. 3 Claims. (Cl. 116—45.)

1. A combination tail light and rear signal device for motor vehicles consisting of a lamp casing adapted to contain a lamp and provided with a glass wall, said wall being diametrically divided into two portions, one portion being of solid color to produce the customary tail light effect while the other portion is provided with an illuminable cautionary signal, a shutter of proper size to cover one portion of said glass at a time, said shutter being swingingly mounted in front of said glass wall in such a manner that its axis is in substantially the same plane as the line of demarcation between the two portions of said glass wall and being arranged to swing



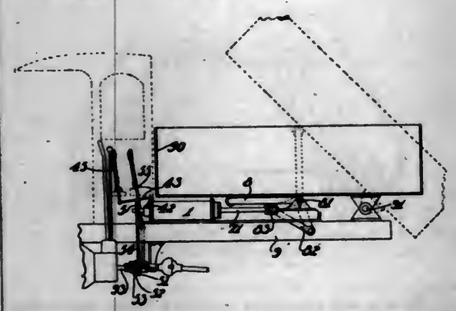
through half a circle, and means convenient to the operator for swinging said shutter whereby when said shutter is in one position the customary tail light is exposed and the cautionary signal is covered but when the shutter is swung to its opposite position the tail light is covered and the cautionary signal is exposed.

1,455,527. COKE OVEN. PAUL GOFFART, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 10, 1920. Serial No. 364,645. 3 Claims. (Cl. 202—9.)



2. In a coke oven, a heating wall with upright flues arranged in independent pairs, the two flues of the same pair being connected at different distances from one end of such pair by openings, and with ducts located in each flue at the other end for the admission of air and for the exit of combustion gases, and means for supplying fuel to the first mentioned end of such pair.

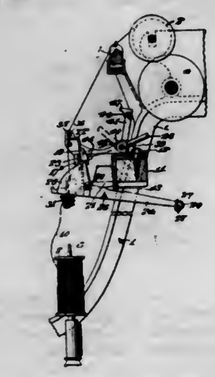
1,455,528. HYDRAULIC HOIST FOR TRUCKS. ARTHUR E. HANSEN, Seattle, Wash., assignor to Young Iron Works, Inc., Seattle, Wash., a Corporation of Washington. Filed June 27, 1921. Serial No. 480,712. 13 Claims. (Cl. 298—22.)



1. A hydraulic hoist for automobile trucks comprising, in combination, a cylinder, a piston movable therein,

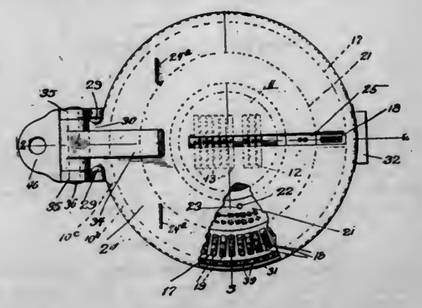
hoisting apparatus operable by the movement of said piston, a pump casing forming one head of said cylinder and connected thereto through self-contained passages, a rotary pump within said casing, and driving means adapted to connect said pump with a power source.

1,455,529. THREAD-BREAKING DEVICE FOR SPINNING MACHINES. FERDINAND Q. HARTMAN, Danville, Pa. Filed Apr. 14, 1920. Serial No. 373,750. 3 Claims. (Cl. 117—29.)



1. The combination with a thread breaking mechanism for spinning machines comprising, a counterbalanced thread breaker, of a coil carried by said thread breaker arranged to be swung by the breaker into the path of the thread to catch and break the thread.

1,455,530. PRODUCTION RECORDING DEVICE. MORRIS J. HOFFMAN, Chicago, Ill. Filed Sept. 8, 1921. Serial No. 499,312. 15 Claims. (Cl. 234—41.)

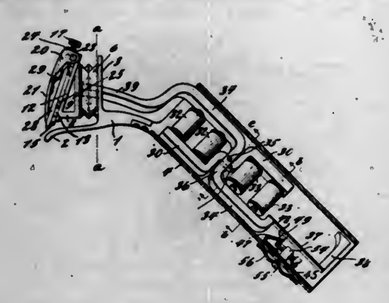


1. A production recording device, comprising a base, a plurality of type carriers rotatively mounted thereon, certain of which are free to rotate and others locked against rotation, means for advancing one freely rotatable type carrier solely in a step by step manner, an impression making bar, and a lock controlled cover for enclosing said type carriers.

1,455,531. ALLOY. ARTHUR S. HYMAN, Newark, N. J. Filed Aug. 4, 1922. Serial No. 579,750. 1 Claim. (Cl. 75—1.)

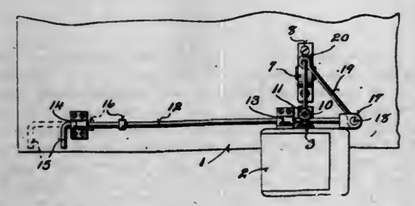
An alloy containing substantially 58½% silver, 16½% copper, 16½% zinc and 8½% nickel.

1,455,532. SAFETY RAZOR. JOHN N. JOHNSON, Albuquerque, N. Mex. Filed May 22, 1920. Serial No. 383,373. 15 Claims. (Cl. 30—12.)



1. A safety razor comprising a support having a forward guard and a wall portion, stationary guides on said wall portion, a frame provided with guides co-operating with the stationary guides for movement along the same, a blade carried by the frame and disposed at an acute angle with respect to the plane of the guides, means on the frame for adjusting the blade toward and from the plane of the guides, means on the support for causing movement of said frame and blade upon the stationary guides, and a cover for the blade carried by the frame and acting as a rear guard.

1,455,533. PIN LIFTER. JOHN R. JONES, Milwaukee, Wis. Filed Sept. 6, 1922. Serial No. 586,458. 2 Claims. (Cl. 213—162.)

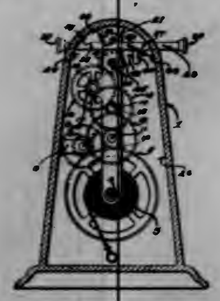


2. A coupling pin lifter for railway cars comprising a lever adapted to engage said pin, a support pivotally carrying said lever, a longitudinally slidable rod having a manipulating handle at one end, and a slanting link pivotally joined to said rod and to an intermediate portion of said lever and lying in a plane at right angles to the plane of said lever, whereby when said rod is slid longitudinally, said lever is elevated, thereby raising said pin.

1,455,534. SPRING-MOTOR-DRIVEN FAN AND STOP THEREFOR. ALFRED O. LARSON, Rio, Wis. Filed Nov. 25, 1921. Serial No. 517,646. 1 Claim. (Cl. 188—69.)

In combination with a motor operated fan including a casing and having a motor driven shaft therein, said shaft having a fan thereon and provided with a laterally extending lug, said casing having openings in its opposite side walls, one opening being larger than the other and provided with a tooth, a bar mounted in said opening and adapted to be moved transversely, spring tensioning means for said bar, said bar having a lug to cooperate with the lug of the motor driven shaft adapted to stop the shaft, one end of the bar having a pair of notches, one of which is designed to hold the bar with its lug in contact with the lug of the shaft, to hold the shaft against rotation,

the other notch adapted to engage the tooth of the larger opening to hold the bar in another position with its lug out of engagement with the lug of the shaft to permit the shaft to rotate, said larger opening constituting means to permit the bar to be lowered at the same time it is pulled in one direction, so that the lug of the shaft may ride upon the bar to allow the shaft to gradually stop until its lug contacts with the lug of the bar.

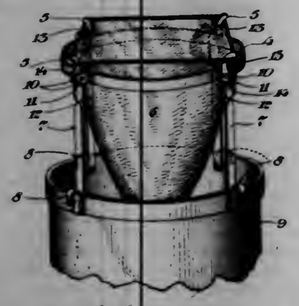


1,455,535. VENTILATED WATERPROOF SHOE. LEONE LAZZARI, Greenville, N. J. Filed Mar. 14, 1922. Serial No. 543,718. 1 Claim. (Cl. 36—3.)



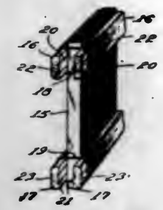
A ventilated shoe comprising an outsole, an insole formed with a plurality of apertures, and a ventilating sole of resilient material, an air chamber being formed between the latter soles and the ventilating sole being provided with teats passing into the apertures of the inner sole and extending substantially to the upper surface thereof and serving to lock the two soles against lateral movement and being formed with longitudinal apertures providing communication between the upper surface of the inner sole and the air chamber below the said sole.

1,455,536. BAG SUPPORT. HARRY J. LEBHERZ, Frederick, Md. Filed Feb. 7, 1923. Serial No. 617,526. 4 Claims. (Cl. 83—26.)



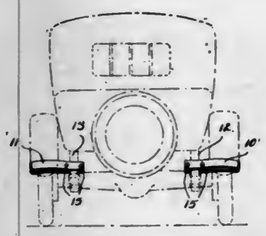
1. In a bag support, a series of segments assembled in hoop form, each segment having laterally-projecting end lugs, bag engaging members mounted on and projecting above the segments, and a plurality of legs of flat strip metal having their upper ends frictionally embraced by and pivoted to the paired lugs of adjacent segments, each of said legs being twisted below the lugs to position its flat surface at right angles to the plane of the lugs.

1,455,537. REED FOR WEAVING WIRE CLOTH. HAMILTON LINDSAY, Cleveland, Ohio, assignor to The Liberty Reed Company, Cleveland, Ohio, a Corporation of Delaware. Filed Apr. 14, 1922. Serial No. 552,774. 7 Claims. (Cl. 139—87.)



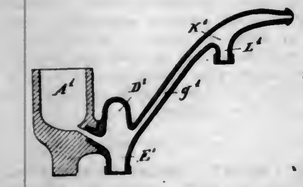
1. A reed for a loom comprising in combination, a plurality of dents placed side by side, a non-metallic binding strip extending transversely thereof, and a metallic insert in said strip adjacent said dents.

1,455,538. FENDER PROTECTOR. EDGAR S. LUDLOW, Cleveland Heights, Ohio. Filed Aug. 28, 1922. Serial No. 584,803. 7 Claims. (Cl. 293—55.)



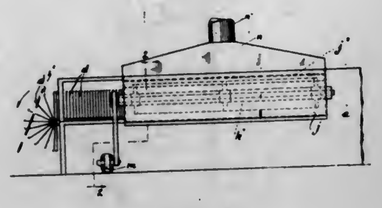
6. An automobile bumper comprising a one-piece strap having a recurved end portion and having substantially parallel side portions, and means for securing the ends of the side portions to a chassis side bar.

1,455,539. TOBACCO-SMOKING PIPE. WILLIAM P. MCCOY, Yonkers, N. Y. Filed Feb. 5, 1920. Serial No. 356,367. 2 Claims. (Cl. 131—12.)



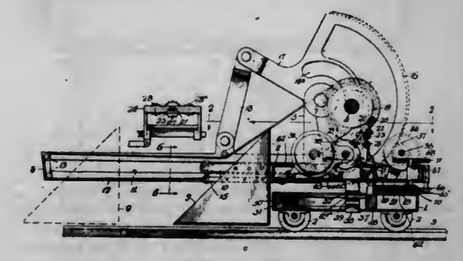
2. A tobacco smoking pipe comprising a bowl having a channel extended downwardly from the bottom of the bowl cavity, and a stem, there being an expansion chamber communicating with said channel exteriorly and adjacent the bowl, the passage through the stem curved upwardly from said expansion chamber, a bit chamber intermediate the mouthpiece and said expansion chamber, a trap in the bottom of the expansion chamber, and a trap at the bottom of said bit chamber.

1,455,540. DRYING OVEN FOR PRINTED METAL SHEETS. CHARLES E. MCMANUS, New York, N. Y. Filed Dec. 29, 1921. Serial No. 525,806. 12 Claims. (Cl. 34—12.)



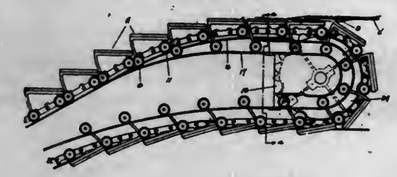
5. A drying oven for printed metal sheets embodying therein an elongated housing, an endless carrier adapted to receive low speed traverse therethrough and including a sequence of racks closely juxtaposed and adapted to receive at spaced intervals, coated metal sheets, an enclosed heating unit within said housing, means withdrawing the products of combustion from said heating unit and discharging them externally of said housing, whereby contact of the products of combustion with the coated sheets is prevented, an offtake duct adjacent the top of said housing and communicating therewith at different points through a plurality of openings, and a suction pump communicating with said duct, whereby fumes developed in the oxidation of the coating material upon said sheets are removed from adjacent the sheets and from within the oven, and a continuous circulation of fresh, heated air is maintained about the sheets.

1,455,541. EXCAVATING MACHINE. JAMES A. MACKILLICAN and FRANK L. LIPCSEY, Hibbing, Minn. Filed Mar. 16, 1921. Serial No. 452,875. 16 Claims. (Cl. 214—132.)



1. An excavating machine, comprising a truck, a deck above the same, power actuated excavating means carried by the deck, and means pivotally connecting the deck with the truck at two points, one adjacent each side of the truck so that the deck may be swung horizontally to carry the excavating means to either side of the truck on the pivotal point nearest the side of the truck beyond which the excavating means is swung.

1,455,542. ENDLESS CONVEYER. SAMUEL G. MARGLES, Brooklyn, N. Y., and CHARLES W. E. NIENDORFF, Jersey City, N. J., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 23, 1921. Serial No. 502,825. 5 Claims. (Cl. 198—18.)



1. In an endless conveyer, comprised of transporting sections, having carrying wheels at the front and rear of the sections on either side thereof, driving chains and sprocket wheels for the sections at the end of the way, one track in alignment with and ending at the sprocket wheels, and the other track extended along the sprocket wheels and beyond the first mentioned track.

1,455,543. SPARK PLUG. SAMUEL P. MILLER, Chicago, Ill. Filed July 14, 1919. Serial No. 310,613. 6 Claims. (Cl. 123—169.)



1. A spark plug having a pair of electrodes; a sleeve secured to one end of each of said electrodes, there being a space formed between the free end of each sleeve and the adjacent end of the electrode to which secured; and spherical terminals loosely mounted in said spaces, substantially as described.

1,455,544. RUBBER OR RUBBER-COATED ARTICLE. LOUIS MINTON, Manchester, England. Filed Aug. 26, 1921. Serial No. 495,847. 2 Claims. (Cl. 18—53.)

1. In the manufacture of moulded rubber goods applying an adhesive coating to the inner faces of the moulds, with which is incorporated, by dusting powdered mica, and afterwards moulding the rubber and vulcanizing same, substantially as herein set forth.

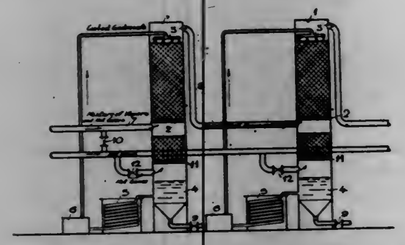
1,455,545. BELT BUCKLE. ERNEST MONAHAN, Milwaukee, Wis. Filed July 22, 1922. Serial No. 576,700. 1 Claim. (Cl. 24—163.)



In a device of the class described, the combination of a pair of side members, means thereon for retaining the end of a belt, a pivot connecting said members, a plate,

flanges on said plate rotatable on said pivot, said flanges extending inwardly of said pivot, a loop secured to the other end of said belt, said side pieces having indentations therein adjacent said pivot to receive said loop and prevent outward movement thereof, said loop operating in said indentations to prevent movement of said flanges, whereby said plate is maintained in closed position.

1,455,546. PROCESS OF TREATING BITUMEN OR CELLULOSE-CONTAINING SUBSTANCES. IGNACY MOSCICKI, Lwow, Poland. Filed Aug. 25, 1921. Serial No. 495,286. 5 Claims. (Cl. 196—5.)



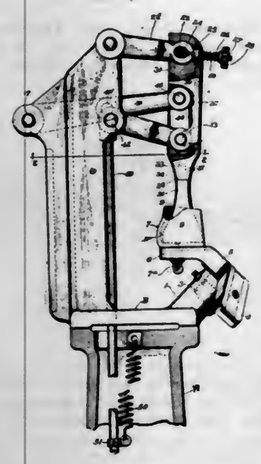
1. The process of separating vapors into their component elements, which consists in leading said vapors upwardly through a dephlegmation column adapted to partially condense said vapors and separate out a single element thereof, collecting the condensate in said column, cooling a comparatively large portion of said condensate slightly below its condensation temperature, and forcing said cooled condensate into the upper part of the column.

1,455,547. CARRIER FOR PNEUMATIC-DISPATCH TUBING SYSTEMS. JOHN T. NEEDHAM, North Plainfield, N. J. Filed July 9, 1921. Serial No. 483,458. 15 Claims. (Cl. 243—35.)



14. A carrier comprising a tubular body part, a movable indicator device mounted on one end thereof, a retaining device mounted wholly within the carrier and adapted to retain the contents of the carrier, and means carried by the retainer to lock the movable indicator device when the retainer is in its closed or retaining position.

1,455,548. COUNTERTURNING MACHINE. FRED A. REARDON, Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Oct. 6, 1920. Serial No. 415,087. 12 Claims. (Cl. 12—57.)



1. In a turning machine, a cup having side walls and a rear wall of non-circular curvature from top to bottom, and a plunger movable into said cup and backwardly toward the rear wall thereof.

1,455,549. AUTOMOBILE BODY ATTACHING TOOL-HOLDING CASE. JAMES E. ROBISON, Denver, Colo. Filed Aug. 2, 1921. Serial No. 489,179. 7 Claims. (Cl. 224—29.)

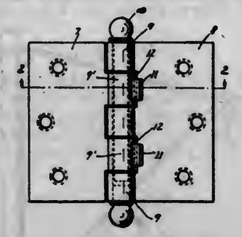


1. A tool holding case containing two independent tool holding compartments, one of which is adapted to be secured to the left hand part of the body of a Ford car adjacent to its steering wheel, each of said compartments being arranged and adapted to receive and hold a variety of different kinds of hand operating tools in separated portions from each other, and means including slides and slideways on the respective compartments, whereby they may be quickly connected one with the other or as quickly separated.

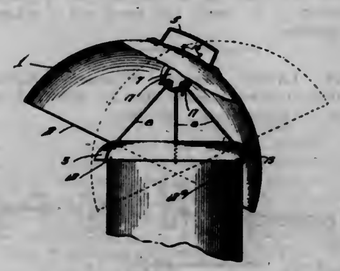
1,455,550. DOORSTOP. ADOLPH RODELL, Chicago, Ill. Filed July 14, 1921. Serial No. 484,623. 4 Claims. (Cl. 16—191.)

4. The combination of a pair of hinge leaves pivotally connected together, of a stop member; and a plurality of

aligned bores in the knuckle of one of said leaves whereby said stop member may be adjustably mounted for limiting the desired pivotal movement of said leaves, substantially as described.

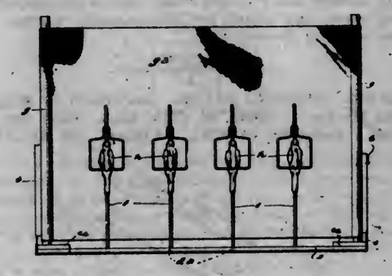


1,455,551. HEAT-DEFLECTION SHIELD. GEORGE E. RYAN, East Taunton, Mass. Filed Apr. 7, 1922. Serial No. 550,438. 4 Claims. (Cl. 126—58.)



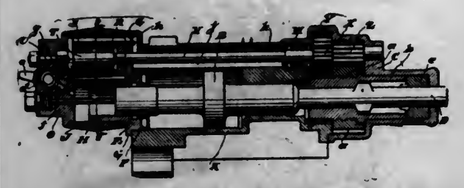
1. A heat deflection shield of the character described, comprising a ball, means for mounting it on a heating unit, a hood, and means attached to the hood for gripping the ball, and holding the hood in any desired position.

1,455,552. GAME. WILLIAM F. SCHMIDT, Wyandotte, Mich., assignor to All Metal Products Company, Wyandotte, Mich., a Corporation. Filed Mar. 30, 1922. Serial No. 547,980. 2 Claims. (Cl. 124—15.)



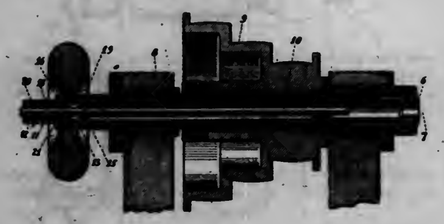
1. The combination of the body *a* with a reinforcing strip *d* therein, said reinforcing strip being provided with vertical apertures, rods adapted to removably engage in said apertures and being bent over at their upper ends, supports pivotally engaging the overturned ends of said rods and depending therefrom, and displaceable figures upon said supports.

1,455,553. MOTOR ROTATION FOR ROCK DRILLS. FRED M. SLATER, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 5, 1922. Serial No. 558,777. 3 Claims. (Cl. 121—7.)



3. An independently rotated fluid actuated rock drill of the hammer type comprising a cylinder and reciprocating piston, a cylinder back extension extending into the cylinder and having a flange and a rearwardly extending reduced portion forming a prolongation of the cylinder bore, a motor casing open at front and back and having a chamber for the motor and a sleeve portion adapted to be sleeved over the said reduced portion of the cylinder back extension, whereby the said flange forms the front head of the motor casing, and a back head fitted to the motor casing and forming a common head for both the bore of the cylinder and the motor chamber in the said motor casing.

1,55,554. METAL-WORKING MACHINE AND ATTACHMENT THEREFOR. PROSPER STERCKLEN, Frankfort-on-the-Main, Germany, assignor to George Fussner, Menominee, Mich. Filed Nov. 11, 1920. Serial No. 423,477. 16 Claims. (Cl. 82—28.)



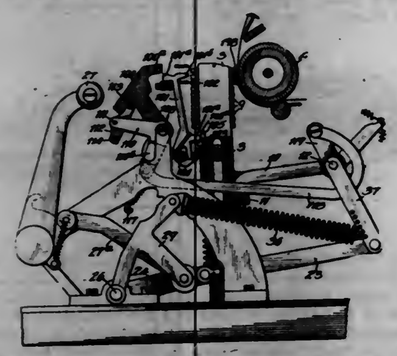
2. An adjustable stop for metal working machines, comprising in combination, a stop rod and a compound gripping member surrounding said rod and constructed and arranged to be set for firmly gripping the exterior of the rod at any part of the length thereof and for gripping the interior of a hollow element upon the machine for the purpose of mounting said stop into operative position.

1,455,555. ADDING MACHINE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed July 24, 1916. Serial No. 110,823. 49 Claims. (Cl. 235—60.)

2. A printing mechanism having, in combination, a plurality of carriers each having a plurality of types, a hammer for each carrier, energy-transmitting members between the hammers and the carriers, arms actuated in the movement of the carriers for moving said members into operative position, and a projection on each arm underlying the next adjacent arm for moving into operative position all of the members located at one side of a given member.

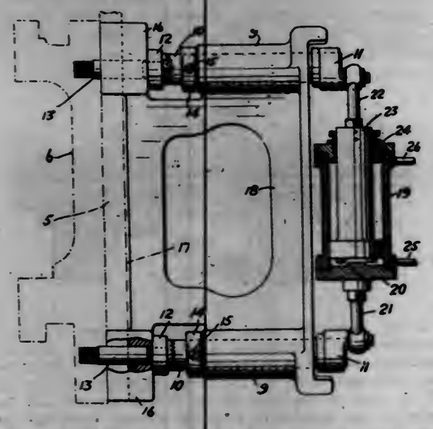
46. In an adding machine, the combination of printing mechanism, printing disabling means, addition disabling means, and operating means including a reciprocatory

operating member, and means operable during the return stroke only of the operating member to effect the operation of said printing mechanism, said disabling mecha-



nisms being operable after the completion of the forward stroke of said operating member and before the return stroke thereof.

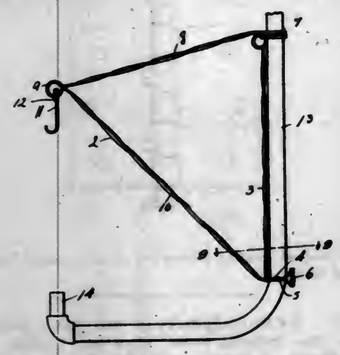
1,455,556. CLAMPING MECHANISM FOR MACHINE TOOLS. WILLIAM H. THORNE, Philadelphia, Pa., assignor to William Sellers and Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 20, 1921. Serial No. 486,229. 3 Claims. (Cl. 90—37.)



3. A clamping device of the character described comprising a fixed screw, a movable clamping member on the screw, a nut on the screw for engaging the clamping member, a rock shaft in axial alignment with the screw, a bearing for said shaft, a crank on said shaft at one end of the bearing arranged to prevent endwise movement of the shaft in one direction, annularly arranged interconnecting teeth on the other end of the shaft and one face of the nut, said teeth being arranged to permit the shaft to be adjusted circumferentially with relation to the nut, and a collar secured to the shaft at the end of the bearing opposite the crank to prevent endwise movement of the shaft in the other direction when the collar is secured thereto.

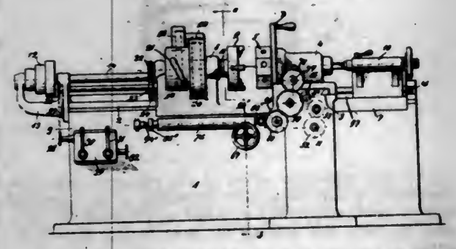
1,455,557. RECEPTACLE-SUPPORTING BRACKET. JOHN TYDINGS, Philadelphia, Pa. Filed Apr. 27, 1921. Serial No. 465,054. 2 Claims. (Cl. 248—30.)

1. In a device of the character stated, an upright having a socket at its lower end which opens out or away from said upright, feet formed with said socket, a second socket at the upper end of the upright opening inward toward the upright or in opposition to the first mentioned socket, a reach projecting from the upper end of



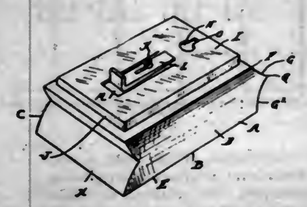
the upright, a strut connecting the lower end of the upright with the outer end of the reach, an eye formed at the junction of the reach and strut and a hanger connected thereto.

1,455,558. LATHE. ARTHUR WORMSER, Offenbach-on-the-Main, Germany. Filed May 10, 1916. Serial No. 96,726. 3 Claims. (Cl. 29—39.)



1. In a lathe, the combination of a bed having guide ways disposed at right angles to each other, a work carrying slide provided with head and tail stocks movable as a unit on one guide way, a tool carrying slide movable on the other guide way, said work carrying slide and tool carrying slide being so arranged that the axes of the immediate supports for work and tool are substantially directly above a supporting edge of the respective guide ways, and means for independently moving the slides on their guides.

1,455,559. RUBBING BLOCK. ARCHIBALD F. WRIGHT and WALTER A. STONE, St. Clair, Mich. Filed Oct. 31, 1921. Serial No. 511,671. 2 Claims. (Cl. 51—187.)



1. A rubbing block comprising a body portion having a plane rubbing surface and edge portions varying in contour, a clamping plate for engaging the surface of

said body opposite said plane rubbing face, said clamping plate being formed of pressed sheet metal having depending marginal flange and a depressed central portion, a clamping wedge for engaging said depressed central portion, and a cooperating headed fastener secured to said body.

1,455,560. GASKET-MAKING MACHINE. WILLIAM P. ZOMMER and GEORGE F. MAGDHARZ, Chicago, Ill., assignors to Illinois Gasket Co., Des Plaines, Ill., a Corporation of Illinois. Filed Jan. 31, 1921. Serial No. 441,272. 27 Claims. (Cl. 29—1.)



1. An automatic gasket making machine comprising die and punch mechanisms for forming channel gasket rings with one operation, core die and punch mechanisms for punching core rings and seating the same within the channel gasket rings, a movable ejector member for moving the channel gasket rings into position to receive the core rings, and finishing die and punch mechanisms for forming the channel gasket rings around the core rings to form cored gaskets.

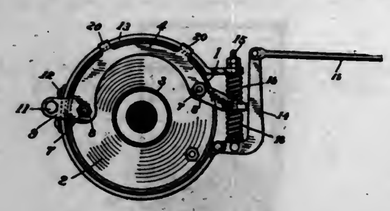
1,455,561. CROP-DUSTING MACHINE. CARL G. ALLGRUNN, Middleport, N. Y., assignor to Niagara Sprayer Co., Middleport, N. Y., a Corporation of New York. Filed Oct. 25, 1921. Serial No. 510,405. 3 Claims (Cl. 221—130.)



1. In a machine of the class described, a hopper having a plurality of discharge openings in its bottom wall, a plurality of toothed wheels so mounted with respect to said discharge openings that the teeth of said wheels overlie said discharge openings, a shaft extending through said hopper, and gears carried by said shaft for driving said wheels; as and for the purpose set forth.

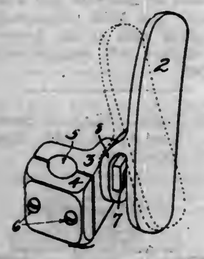
1,455,562. OUTSIDE BRAKE BRACKET. FRANK J. ANDEL, Cleveland, Ohio. Filed May 22, 1922. Serial No. 562,789. 3 Claims. (Cl. 188—77.)

1. A bracket of the character described, having forwardly and rearwardly projecting arms at its respective ends, one of said arms adapted to be connected to a brake band, a laterally projecting perforated lug on the



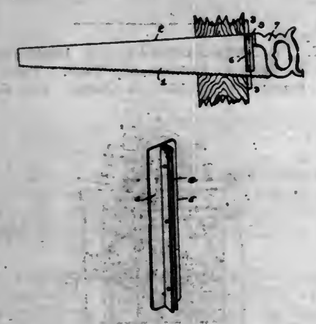
other arm adapted to guide a rod connecting the ends of the brake band, and means on the bracket for preventing lateral movement of the brake band.

1,455,563. BRAKE-LEVER HANDLE GUARD. JOSEPH BRSCH, Albany, N. Y. Filed Aug. 11, 1921. Serial No. 491,566. 1 Claim. (Cl. 74—30.)



The combination with the brake lever of an automobile of a guard member attached thereto so as to interpose between the handle of said lever and the limbs of a passenger occupying the seat alongside of the driver.

1,455,564. COMBINATION TOOL. BENJAMIN J. BIDDLE, Montville, N. J. Filed Apr. 18, 1922. Serial No. 554,863. 3 Claims. (Cl. 7—13.)



2. A device of the kind described, consisting of a U-shaped strap adapted to straddle a saw blade, each arm of said strap having a right-angular flange forming a short arm of a carpenter's square, and means whereby said strap may be fixed to said blade, whereby said short arms may coact with the straight edge of said blade to form said square.

1,455,565. PHONOGRAPH RECORD FILE. EUGENE C. BRIGGS, Norwood, Mass. Filed Mar. 2, 1921. Serial No. 449,169. 2 Claims. (Cl. 211—16.)



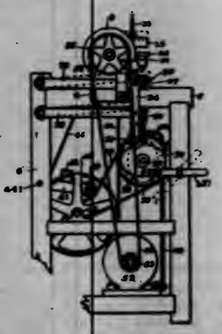
1. A phonograph cabinet comprising a slide drawer open at its front equipped with a horizontally extending bar at the top and also at the bottom of the back thereof, said bars perforated at intervals, and a series of pockets adapted to receive and hold phonograph record discs equipped with pintle rods at the inner sides thereof, the extremities of said rods engaged with the perforations of said bars.

1,455,566. FUSE PLUG. WILLIAM PENN BRIGGS, New Bedford, Mass. Filed Apr. 4, 1922. Serial No. 549,560. 5 Claims. (Cl. 200—129.)



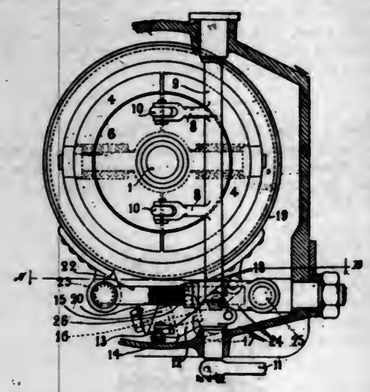
2. In a fuse plug of the character described, a cut-out provided with a base having a pair of up-standing posts spaced apart, a contact carried by the base on each side of each of said posts, a covering plate connected with said base and provided with slots accommodating said posts, said slots being longer than the posts so as to provide openings adjacent said contacts.

1,455,567. SAFETY-RAZOR-BLADE BESHARPENER. DAVID B. BROWN, Bellingham, Wash. Filed Oct. 5, 1921. Serial No. 505,555. 1 Claim. (Cl. 51—115.)



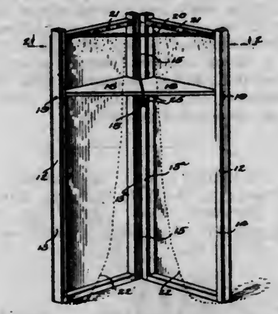
In combination, an abrasive-disk shaft mounted for revolution, a plurality of abrasive disks mounted fixed at spaced distances on said shaft, a countershaft mounted for revolution parallel with said disk shaft, power connections between said disk shaft and said countershaft, a cam shaft mounted for revolution parallel with said disk shaft, a bar mounted for transverse oscillations and longitudinal reciprocation parallel with said disk shaft, controllable frictional power connections between said countershaft and said cam shaft, one of a pair of cam disks mounted fixed on each end of said cam shaft, connections between each of said cam disks and said bar whereby said bar is caused to oscillate as said cam disks are revolved, a cam wheel mounted fixed on said cam shaft, power connections between said cam wheel and said bar whereby said bar is caused to reciprocate as said cam wheel revolves, a plurality of blade holders each mountable for oscillation with a holder handle about an axis parallel with the jaws of said holder, a plurality of blade-holder handles each mounted for oscillation on said axis between each two facing abrasive disks and also mounted for longitudinal reciprocation whereby said oscillations will cause a blade held in said holder to first bear against one of said facing abrasive disks and then against the other facing disk and said reciprocation of said holder will cause said blade to move longitudinally while bearing on said disks, resilient power connections between said movable bar and said handle whereby said handle is caused to oscillate on its axis when said bar reciprocates longitudinally and power means to revolve said abrasive disk shaft.

1,455,568. GOVERNOR FOR STEAM ENGINES. MAURICE BRUNET, Liege, Belgium, assignor to Maison Detilleux, Société Anonyme, Liege, Belgium. Filed Aug. 17, 1921. Serial No. 493,107. 3 Claims. (Cl. 102—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



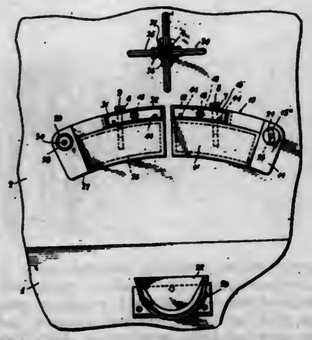
1. In a governor for steam engines, of the type wherein a centrifugally operated band-brake acts directly on the crank-shaft, said brake having one end of the brake band adjustably secured to the engine casing, a bar slidably mounted in a bearing of the engine casing, and having at one end a link connection with the other end of the brake-band, a cylindrical fixed cam and a cylindrical rotatable cam mounted end to end on said bar between a nut on the other end thereof and the aforesaid bearing and having their contacting surfaces in a plane passing diagonally through the longitudinal axis of such bar, a brake-operating rod rotatably mounted in bearings of the engine casing at right angles to the crankshaft, and an operative crank and pivoted link connection between said rod and the aforesaid rotatable cam, in combination with: a hub keyed on the crank-shaft and having a pair of radial arms, a pair of opposed semi-circular jaws slidably mounted on said arms, compression springs between the free ends of said arms and the jaws, exerting a radial pressure towards the hub on said jaws, a circular sloping surface in one side of said jaws, formed by the inner periphery of a circular groove of suitable cross-section, a spring-pressed dish-shaped crown slidably mounted on the aforesaid hub and having an inclined peripheral flange in operative facial engagement with said circular sloping surface, and means for causing the aforesaid brake-operating rod to be rotated by the movement of the said crown along the hub, substantially as described.

1,455,569. ARTICLE OF FURNITURE. PHILIP CAMINONI, Jr., Brooklyn, N. Y. Filed Oct. 14, 1922. Serial No. 594,613. 6 Claims. (Cl. 45—118.)



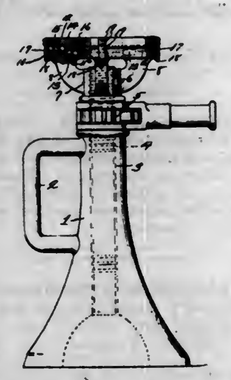
1. A collapsible article of furniture including, in combination, three vertical frames comprising a central back frame and two side frames, each connected to each side of the back frame for movements of the side frames about vertical axes relative to the back frame, and a combined auxiliary hinge means and shelf structure, said shelf structure including two substantially multi-part triangular structures each pivotally connected to one side frame and the back frame and each including a pair of triangular sub-structures pivotally interconnected along a side of each sub-structure, the three pivotal connections mentioned for each shelf structure being along separate but converging lines when the back frame and the associated side frame are in various converging planes.

1,455,570. MOTOR AND STEERING CONTROL FOR AUTOMOBILES. PASQUALE CASSARA, Bethlehem, Pa. Filed Oct. 11, 1922. Serial No. 593,790. 13 Claims. (Cl. 74—81.)



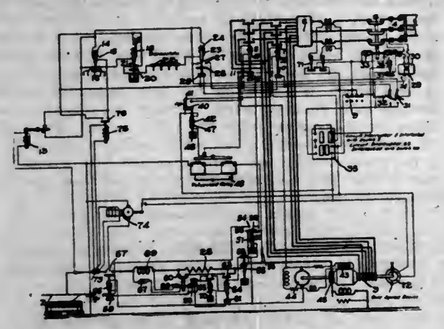
1. Control mechanism for auto-vehicles comprising a rotatable steering rod, foot operated motor controls arranged adjacent said steering rod having positions of elevation and depression and means engageable by the foot for turning said steering rod located adjacent the positions of elevation and depression of said motor controls.

1,455,571. SCREW JACK. ALEX CLELAND, New Orleans, La. Filed Sept. 22, 1921. Serial No. 502,407. 2 Claims. (Cl. 254—98.)



1. The combination with a jack having a movable screw, of an article engaging member carried by said screw, said member comprising a pair of spaced annular members, one of said annular members being provided with radially disposed ball bearings disposed in radially disposed pockets of one of said annular members, the other annular member being provided with raceways engaging said ball bearings.

1,455,572. ELECTRICAL SYSTEM. CHARLES S. COOK, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1916. Serial No. 128,434. 23 Claims. (Cl. 171—312.)

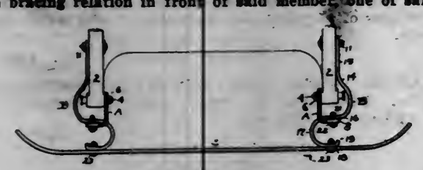


1. The combination with a direct-current circuit and a rotary converter, of a resistor, means for connecting the resistor between the converter and the circuit, and means responsive to the current traversing the resistor for controlling the effectiveness of the resistor.

1,455,573. SPRING BRACKET AND FENDER. WILLIAM G. COX, Cleveland, Ohio. Filed Feb. 6, 1923. Serial No. 617,272. 10 Claims. (Cl. 293—55.)

1. A spring bracket for a vehicle fender, comprising a pair of attachment sections adapted to be affixed on oppo-

site sides of a vehicle frame member and interconnected in bracing relation in front of said member, one of said

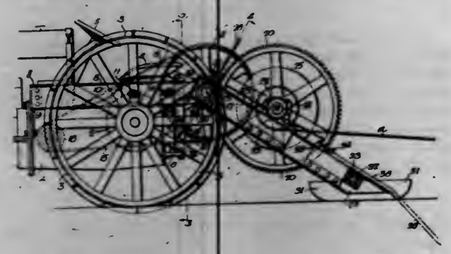


sections having a spring supporting extension for an impact member.

1,455,574. CARBON REMOVER. HERBERT W. EASTMAN, Cedar Rapids, Iowa. Filed May 11, 1920. Serial No. 380,497. 1 Claim. (Cl. 87—5.)

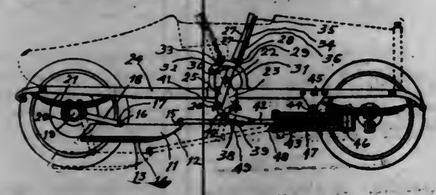
A carbon removing composition consisting of 80 gallons of alcohol, 15 gallons of acetone, 4 gallons of sulphuric ether, 100 gallons of stronger ammonia water, and 4 gallons of chloroform.

1,455,575. ROPE-DRUM ATTACHMENT FOR TRACTORS. HAROLD I. EATON, Ventnor, and FREDERICK A. REILEY, Atlantic City, N. J. Filed Apr. 19, 1921. Serial No. 462,690. 2 Claims. (Cl. 254—166.)



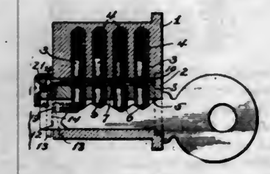
1. The combination of a tractor, a frame mounted thereon, beams carried by the frame having bearings, a shaft mounted in the bearings, a drum supporting frame pivoted to the shaft and extending diagonally towards the ground, a shoe pivotally mounted on the lower end of the frame, stakes on the frame arranged to penetrate the ground; shaft bearings on the frame, a drum shaft mounted on the bearings, a drum thereon, a gear wheel on said shaft, a pinion on the first mentioned shaft meshing with the gear wheel, a clutch for throwing the pinion in engagement with the shaft, a belt wheel on the intermediate shaft, a belt wheel driven by the motor of the tractor and a belt passing around both wheels so that motion will be imparted to the belt and gearing through the drum.

1,455,576. EMERGENCY BRAKE. AUREN C. ELLIOTT, Los Angeles, Calif. Filed May 12, 1920. Serial No. 380,833. 1 Claim. (Cl. 188—5.)



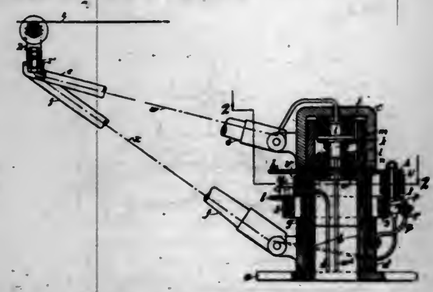
The combination with an automobile chassis including a frame and front and rear axles, of a brake shoe adapted to contact with the ground, clamps on the rear axle, links connecting the brake shoe with the clamps on the rear axle and mounted so that the shoe swings to operative position slightly forward of the rear axle, piston rods connected to the shoe and extending relatively forward thereof, piston cylinders pivotally mounted relative to the frame, pistons on said piston rods and working within said cylinders, springs interposed between the pistons and the cylinder heads, bearing members fixed to the frame, a transverse shaft journalled in the bearing members, rock-levers fixed to the transverse shaft, and having relatively long arms and short arms, said long arms being pivotally connected to said piston rods, a rod connecting the extremities of the short arms, a transversely extending shaft journalled in said bearing members and extending above the first-named transverse shaft, a manually manipulated lever for actuating the last-named transverse shaft, lever arms fixed to the manually manipulated shaft and having slotted ends in engagement with the transverse rod connecting the rock levers, a notched segmental rack adjacent to the manual lever, and a spring actuated plunger mounted on the manual lever and adapted to engage with the notches in the segmental rack to maintain the brake shoe in operative and inoperative positions.

1,455,577. CYLINDER LOCK. ELI EPSTEIN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Jan. 26, 1923. Serial No. 615,098. 2 Claims. (Cl. 70—47.)



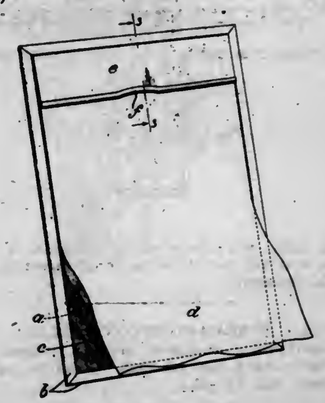
1. In a pin tumbler lock, the combination with a shell or casing, a plug and pin tumblers, of a lever carried by the plug, and adapted to lie normally in locked engagement with the shell or casing, a slide cooperable with said lever and with the pin tumblers, and a spring device carried by the plug and normally tending to move the lever out of locked relation to the shell or casing.

1,455,578. TROLLEY COLLECTOR. PAUL TRANGOTT JULIUS ESTLER, London, England. Filed May 2, 1922. Serial No. 557,914. 2 Claims. (Cl. 191—57.)



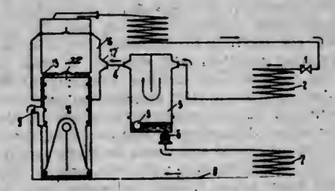
1. In combination, a trolley collector body, a cap and a sleeve both rotatably mounted on said body and a second sleeve fixed to said body an upper trolley pole carried by said rotatable cap and a lower trolley pole carried by said rotatable sleeve both said trolley poles having pole heads electrically insulated from said poles for contact with overhead electric conductors, electric conductors leading from and to said pole heads, movable contact members carried by said rotatable cap and said rotatable sleeve, fixed contact members carried by the trolley collector body, and electric insulating means mounted on said rotatable cap and trolley collector body, and also on said rotatable and fixed sleeves.

1,455,579. WRITING AND DRAWING SURFACE. DANIEL EVANS, Highbury, London, England. Filed Apr. 12, 1920. Serial No. 373,413. 6 Claims. (Cl. 35—10.)



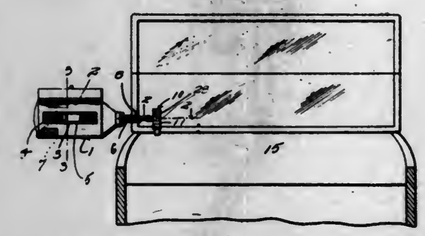
1. A writing and drawing surface from which writing, drawings and other markings thereon can be instantaneously obliterated and caused to disappear without the use of india rubber or other erasing means and upon which such matter can be preserved, said writing and drawing surface being adapted for repeated use without renewal and comprising a colored base including a relatively soft plastic substance adapted to receive impressions from a drawing and writing instrument, and a writing and drawing surface proper associated with and disposed above said base and being free to be lifted therefrom and being sufficiently transparent to permit the colored base to show through it, the material of the base and writing surface being adapted to adhere at points of pressure of the writing instrument.

1,455,580. REFRIGERATING SYSTEM. GEORGE FERGUSON, Apeldoorn, Netherlands, assignor to Apeldoornsche Machinefabriek en Metaalgieterij voorheen Loog Landaal, Apeldoorn, Netherlands, a Limited Liability Company of Netherlands. Filed Apr. 24, 1920. Serial No. 376,406. 3 Claims. (Cl. 62—115.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



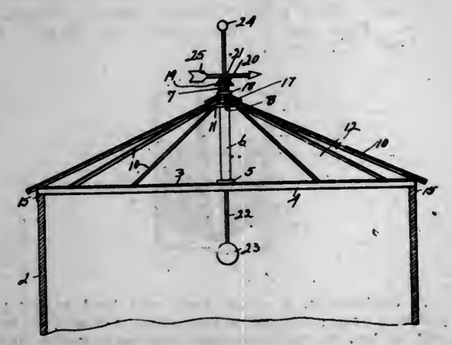
1. In a compression refrigerating system, a high pressure evaporator and a low pressure evaporator for the refrigerating liquid, a chamber connected to the outlet of the high pressure evaporator and to the inlet of the low pressure evaporator to receive the liquid and gas resulting from evaporation in the high pressure evaporator, and a valve controlling the flow of liquid from said chamber to the low pressure evaporator, said valve being operable either by the level of the liquid in said device or by an excessive difference between the pressures existing in said high pressure evaporator and said low pressure evaporator.

1,455,581. AUTOMOBILE DIRECTION INDICATOR. PAUL M. FLACK, Ogdensburg, N. Y. Original application filed Mar. 25, 1920, Serial No. 368,573. Divided and this application filed June 17, 1921. Serial No. 478,350. 3 Claims. (Cl. 74—39.)



1. A direction indicator comprising a base, a shaft carried by said base for operating an indicator having direction characters, a semi-cylindrical vertically arranged scale board secured to said base, a controlling lever secured to the shaft and associated with the scale board, and means to positively lock said controlling lever in alignment with any one of the characters on the scale board.

1,455,582. METAL COVER FOR TANKS. WILLIAM W. FORD, Philadelphia, Pa. Filed Apr. 17, 1922. Serial No. 553,843. 4 Claims. (Cl. 108—32.)

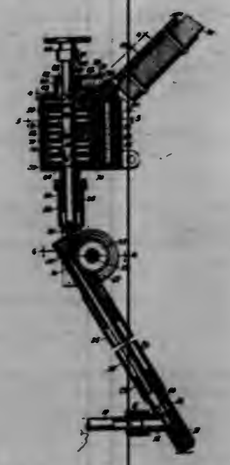


1. A metal covering comprising in combination, a king post, a perforated collar having threaded connection with said king post, ribs of T-iron having hooked inner ends connected with said collar through the medium of the hooks entering the perforations thereof, plates located between said ribs and underlying the oppositely projecting arm flanges of said ribs, said plates having their side edges bent inwardly to form flanges coacting with the body flanges of the ribs, means for fastening said plates to said ribs, a frusto-conical hood loosely mounted upon the king post and overlying the upper ends of the ribs and plates, means for threaded connection with the king post to engage the hood and thereby hold said parts together, and a cap mounted on the upper end of the king post.

1,455,583. AUTOMOBILE LOCK. JOHN P. GERAGHTY, Jersey City, N. J. Filed May 12, 1920. Serial No. 380,765. 3 Claims. (Cl. 70—53.)

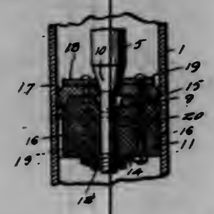
1. In a locking mechanism for automobiles and other power driven vehicles, a lock casing, a spindle slidable in

the lock casing, tumblers in the casing and coacting with the said spindle to lock the spindle against sliding movement at the time the tumblers are in locking position, a hinge connecting the casing with a fixed part of the ve-



hicle, the hinge having a pintle provided with a reduced portion, a spring-pressed bolt slidable in the casing and adapted to engage the said reduced pintle portion, and an arm pivoted on the spindle and adapted to engage the said bolt.

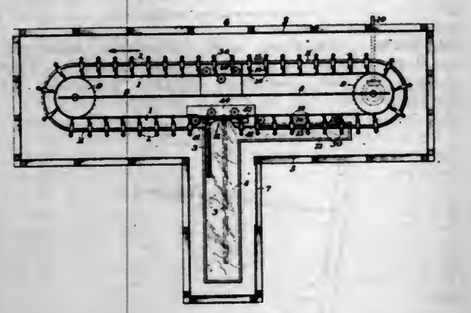
1,455,584. TIRE PUMP. HOWARD GRAHAM, Knippa, Tex. Filed Aug. 3, 1921. Serial No. 489,495. 1 Claim. (Cl. 230—27.)



In combination, a piston head, said head having a pocket, a washer disposed in said pocket, a wear plate on said washer, tie means securing said head, washer and plate together, said head having a peripheral groove in communication with said pocket whereby compression may reach said washer, said rod having a conical seat engageable by said head, washer and plate, said rod having an extension of reduced diameter extending from the frustum of the seat, said extension having a side portion reduced in cross-sectional area, said plate, washer and head being slidable away from said seat, an element screw threaded on said extension to limit the latter movement, the side portion serving to provide an opening through said element.

1,455,585. DIPPING MACHINE. BENJAMIN M. GRIFFITH, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed Dec. 2, 1921. Serial No. 519,424. 7 Claims. (Cl. 91—46.)

6. A machine for dipping rods, comprising a dipping tank, a conveyor, holders on the conveyor, each holder comprising a part fixed to the conveyor and an arm pivoted thereto and arranged to normally hold the rod in a vertical position, and means at the dipping station for causing the pivoted part of the holder to drop and to turn the rod into a horizontal position and immerse it in the



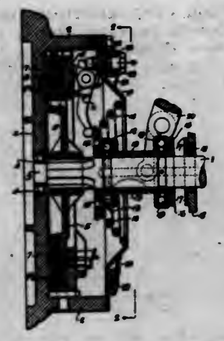
dipping tank, and thereafter to withdraw it from the dipping tank and turn it to an upright position, substantially as described.

1,455,586. STREAM-FLOW-CONTROLLING INSTRUMENTALITY. VLADIMIR HAJEK, Prague, Czechoslovakia. Filed Apr. 12, 1923. Serial No. 631,577. 3 Claims. (Cl. 61—25.)



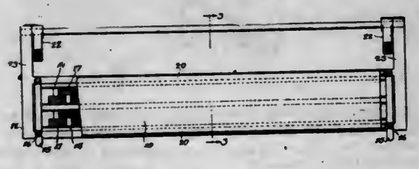
1. In the formation of dams, wherein the flow-controlling instrumentality is shiftable between channel-closing and channel-open positions, an instrumentality for this purpose including a shiftable element having a face member adapted to serve as a breast wall of the dam, said wall being shiftable toward and from the bottom of the channel to permit water flow therebeneath at will, and a support-formation projecting normal to said face member in the direction of stream flow and movable with said member during shifting movement between such positions, said face member and support formation being rigidly connected, with the point of connection intermediate the upper and lower edges of the member and closer to the lower than the upper edge of such member to produce a greater projection of the member above than below the point of connection when the element is in its channel-closing position, and a stationary sustaining formation located at the bottom of the channel beyond the element, said support formation and the sustaining formation co-operating to maintain the element in its channel-closing position, said element, in such position, having its face member inclined upwardly to the horizontal and vertical in the direction of stream flow, a cross-section of the instrumentality presenting the upper and lower edges of the member and the point of contact of support formation and sustaining formation as relatively located in correspondence with the apices of an approximate right angle triangle of which said face represents the hypothenuse of the triangle, said support formation and the sustaining formation having relative fulcruming configurations to permit the element to shift so as to pass the face member from its inclined plane position to an approximately horizontal plane while maintaining removable contact between the support and sustaining formations, the element having its movements about the approximate point represented by the apex of the right-angle of the triangle.

1,455,587. CLUTCH. ALEXANDER P. HAMILTON, Troy, Ohio, assignor to Powell Evans, Philadelphia, Pa. Filed Nov. 11, 1919. Serial No. 337,163. 9 Claims. (Cl. 192—111.)



4. The combination in a clutch of a casing; coacting clutch elements therein; means including levers for controlling the operation of said elements; and means for adjusting the levers to compensate for wear of the clutch elements, the same including a ring rotatably adjustable on the outside of the casing having portions of varying thickness for determining the adjustment of the levers in lines parallel with the axis of rotation of the casing.

1,455,588. PRINTING DEVICE. MORRIS J. HOFFMAN, Chicago, Ill. Filed Nov. 20, 1922. Serial No. 601,974. 10 Claims. (Cl. 101—97.)



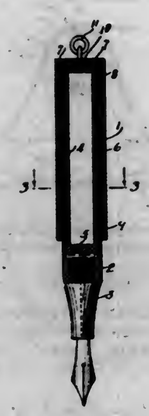
1. In a printing device, a base, spaced, parallel, and connected type carrier bars removably supported therein and spaced groupes of type wheels removably secured on said bars.

1,455,589. ALLOY. HENRY C. KIRK, Roland Park, and GEORGE H. DUMLER, Baltimore, Md. Filed Mar. 5, 1921. Serial No. 450,011. 2 Claims. (Cl. 75—1.)

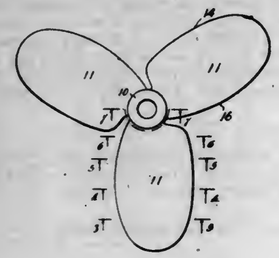
1. A copper alloy substantially in the proportions of 10% iron, 1% nickel, the balance being copper.

1,455,590. FOUNTAIN PEN. DONALD LA RUE EASTMAN, Olean, N. Y. Filed Oct. 25, 1921. Serial No. 510,240. 3 Claims. (Cl. 120—47.)

1. In a fountain pen, a barrel having an open upper end, an elongated cylindrical-plunger movable in the barrel through the open end thereof, a sleeve secured to the upper end of the plunger and surrounding and spaced from the same and between which and the plunger the barrel is adapted to telescope with the plunger tightly fitting the barrel throughout its length, and means for removably securing the lower end of the sleeve to the upper end of the barrel.



1,455,591. MARINE PROPELLER. GEORGE W. LAWSON, New York, N. Y. Filed Oct. 7, 1920. Serial No. 415,317. 1 Claim. (Cl. 170—159.)

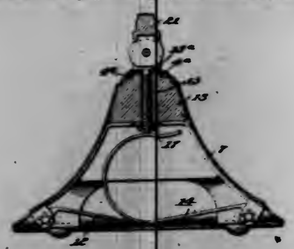


A propeller comprising a hub, and a series of radial blades helically arranged thereto, each of said blades having a compound pitch, the leading edge of each of said blades being convex and extending in advance of the forward end of the hub and the tip of the blade, each of said blades being so formed that the greatest convexity of the entering edge is located approximately at the greatest width of the blade, and the greatest pitch of the blade initiates at the greatest width of the blade and increases therefrom to the following edge thereof.

1,455,592. PORTABLE LAMP. WILMAR F. LENT, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 24, 1921. Serial No. 455,336. 4 Claims. (Cl. 240—81.)

1. In a device of the class described, the combination with a lamp base, of a weight located in the upper por-

tion of said base, a lamp pivoting member on said base, means on said lamp pivoting member engaging the base



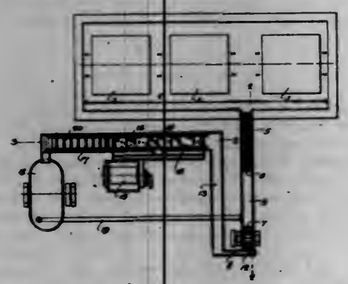
and weight to prevent relative rotation of said parts, and a single fastening member for securing the several parts together.

1,455,593. LIQUID-DISPENSING APPARATUS. JOSHUA AARON LEWIN and GEORGE PILCHER BARTLETT, Durban, Natal, South Africa. Filed Apr. 24, 1920. Serial No. 376,370. 6 Claims. (Cl. 221—94.)



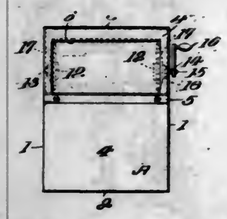
1. Means of the kind described comprising a liquid container air-tight at all points except where the discharge aperture or member providing it is placed, an inverted cone-shaped member attached to said container below the lowest level of the liquid, a discharge passage through said inverted cone-shaped member and a cup or receptacle of corresponding shape to the aforesaid member arranged beneath and around the outlet orifice of said member.

1,455,594. PROCESS OF TREATING PAPER STOCK. FRANK P. MILLER, Downingtown, Pa. Filed Feb. 17, 1920. Serial No. 359,221. 5 Claims. (Cl. 92—20.)



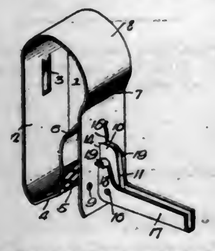
1. The process herein described of reducing paper stock to pulp, said process consisting in first treating the raw paper in a digester so as to soften the pulp and paper, then subjecting the material discharged from the digester to the action of a jet of water under pressure, then allowing the pulp to flow with the water through a screen, separating the coarse from the fine stock, then removing the strings and other particles from the coarse stock, allowing it to mix again with the fine stock, passing the stock over a screen, allowing the fine particles that flow through the screen to pass to a stuff chest and the coarse particles to flow to a beating engine, then reducing the coarse stock in the beating engine and allowing it to be screened and to flow to a stuff chest.

1,455,595. DOOR CONSTRUCTION. HENRY MOECKER, Jr., and THEODORE THOMPSON, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 27, 1921. Serial No. 524,976. 7 Claims. (Cl. 126—191).



1. The combination with an oven or the like, of a swinging door with rearwardly extending edges, hangers for the door carried by said rearwardly extending edges, stub-shafts carried by the hangers intermediate their ends, and means for rotating the door to open the same.

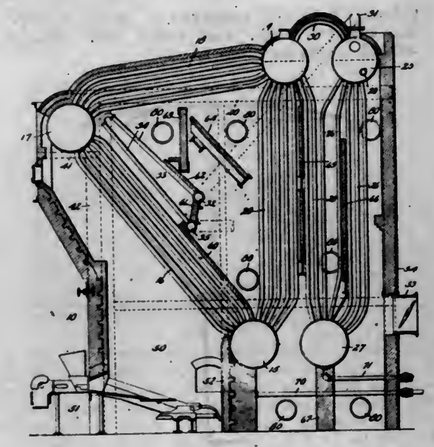
1,455,596. TOGGLE. CHARLES S. MORRISON, Elkins Park, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 16, 1922. Serial No. 607,334. 8 Claims. (Cl. 24—258.)



1. The combination in a toggle, of a body portion having a tongue at each end and bent so that one tongue overlaps the other tongue; a post pivoted to one tongue and extending through the other tongue; and a lever pivoted to the post, said lever, when turned causing the tongues to move towards each other and clamp material between them.

1,455,597. WATER-TUBE BOILER. FREDERICK C. STIMMEL, Chattanooga, Tenn., assignor to Casey Hedges Co., Chattanooga, Tenn., a Corporation. Filed Apr. 15, 1920. Serial No. 374,129. 2 Claims. (Cl. 122—301.)

1. In a water tube boiler, a main boiler section and a feed water section, the main boiler section having a mud drum, a front upper drum, a rear upper drum in a higher plane than the front drum, a set of upwardly and forwardly inclined tubes connecting the mud drum with the front upper drum, a set of upwardly and rearwardly inclined tubes connecting the front and rear upper drums, a set of vertical tubes connecting the rear upper drum with the mud drum, the feed water section having an upper receiving drum in rear of and in the same horizontal plane as the rear upper drum of the boiler section, a connection for steam only between the tops of the rear upper drum of the boiler section and the upper receiving drum of the feed water section, a lower feed water drum in rear of the mud drum and disconnected therefrom, a set of vertical tubes connecting the upper receiving drum of the feed water section with the feed water drum of said section, a set of vertical tubes connecting the upper rear drum of the boiler section with the feed water drum, and a plurality of angularly arranged baffle plates in the

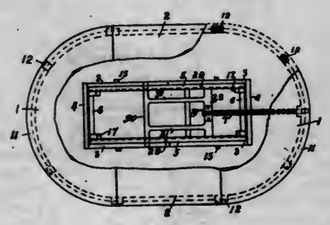


space bounded by the tubes connecting the drums of the boiler section, a baffle between the tubes of the upper drum and the mud and feed water drums, and a baffle in the tubes connecting the receiving drum with the feed water drum.

1,455,598. AROMATIC HYDROCARBON CEMENT. WILLIAM SWANTON BARRIE and LAWRENCE CHADWICK, Selwyn, via Townsville, Queensland, Australia. Filed Mar. 8, 1921. Serial No. 450,634. 5 Claims. (Cl. 87—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

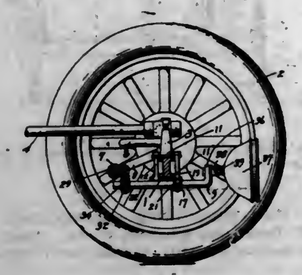
4. A cement comprising the products resulting from heating tar-like material having a specific gravity of about 1.1 and sulphate salt material.

1,455,599. EXTENSIBLE TABLE. ISAAC COOKLIN, Liverpool, England. Filed May 23, 1922. Serial No. 563,137. 1 Claim. (Cl. 45—9.)



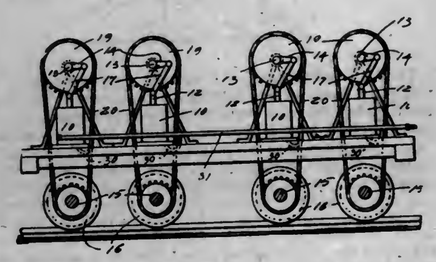
An extension table, including end frames and a central frame carrying table top portions, loose leaves carried between the frames having projections thereon, said central frame having projections to cooperate with the projections on the leaves, links pivotally mounted on the end frames having a limited sliding connection with the adjacent loose leaf, and operating means for relatively moving the frames, whereby the links will move the leaves to cause a cooperation of the projections for raising the leaves into top forming position in one operation of the frames, and the projections will cooperate in a subsequent operation to stow the leaves.

1,455,600. SELF-ADJUSTING HEADLIGHT. WILLIAM H. CORNWELL, Oakland, Calif. Filed Nov. 7, 1921. Serial No. 513,494. 4 Claims. (Cl. 240—62.)



1. For a vehicle having a front axle and a steering rod supported in spaced relation thereto, a headlight mounting comprising an upwardly toeing channel pivotally supported underneath the axle, a perforation in the rear arm of the same, a clamping member on the steering rod, a vertically yielding connection between the rear arm and the clamping member, and means for supporting the headlight on the front end of the channel.

1,455,601. AIR-COMPRESSING ATTACHMENT FOR ENGINES. CICERO A. COX, Ragland, Ala. Filed Jan. 9, 1920. Serial No. 350,372. 1 Claim. (Cl. 230—32.1.)

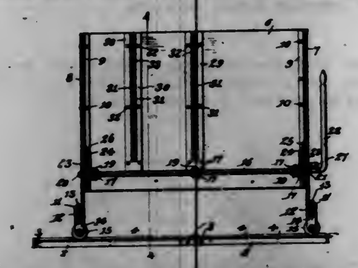


In an air compressing attachment for a locomotive, in combination with a wheel-driven shaft and a base located above and projecting at each side outwardly beyond the wheels on said shaft, a bearing rising from said base substantially equidistantly from the wheels, a driven shaft disposed transversely of the base and journaled in said bearing, driving gearing extending from the first mentioned shaft to the second mentioned shaft through said base and on opposite sides of said bearing, a plurality of air compressors on said base one adjacent each end thereof and equidistantly from said bearing and driving connections adjacent the ends of said first mentioned shaft for said air compressors, whereby the structure is equalized.

1,455,602. DUMPING APPARATUS. GEORGE A. CURLEE, Childress, Tex. Filed Nov. 2, 1922. Serial No. 598,666. 2 Claims. (Cl. 105—250.)

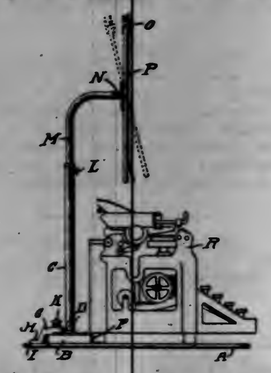
1. An apparatus for the purpose set forth comprising a portable earth carrier in the form of a hopper element

provided with a dumping bottom, a releasable means for actuating said bottom, disks carried by said means and



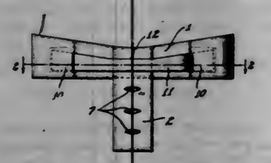
arranged at each end of said bottom, and a protective element for each of said disks.

1,455,603. STENOGRAPHER'S TRANSCRIPT RACK. JAMES W. DANDRIDGE, Garrison, W. Va. Filed Apr. 18, 1921. Serial No. 462,412. 1 Claim. (Cl. 120—28.)



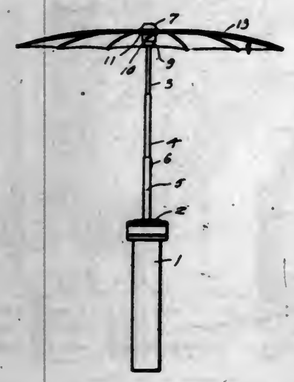
In a stenographer's copy holding rack comprising a rest board and clip for holding the copy secure thereon, the combination of a supporting frame composed of two upright pipes held in spaced relation on a supporting base, two telescoping pipes supported in and vertically movable in said upright pipes, both sets of pipes being respectively braced by cross bars which are fastened to and extend between the said upright pipes and between the two telescoping pipes to firmly hold each set respectively in fixed relation, a foot plate resting on and hinged to the supporting base and forming a seat for the two upright pipes, a lever or clamp pivoted to the supporting base and provided with an overhanging head or neck to fit over the foot plate and provided with a set screw for clamping the foot plate in position, all substantially as described.

1,455,604. NECKTIE HOLDER. NEWTON J. DARDEN, Washington, D. C. Filed Oct. 7, 1922. Serial No. 593,058. 5 Claims. (Cl. 24—56.)



1. A tie holder comprising a plurality of components, one component including a body portion provided with a pocket thereon; a securing tab associated with the body portion and provided with means for attaching it in place; and another component comprising a tie carrying member adapted to be disposed in the pocket and provided with means for securing a tie or the like thereto.

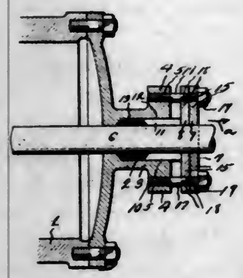
1,455,605. FOLDING UMBRELLA. RULON H. DAVIS, Salt Lake City, Utah. Filed June 1, 1922. Serial No. 565,074. 5 Claims. (Cl. 135—25.)



1. A folding umbrella, having a collapsible stick and frame, a plug at the lower end of the stick, and a handle adapted to receive the stick and frame when collapsed, the open end of the handle being closed by said plug in either position of the parts.

5. In a folding umbrella, a stick, a retainer at the outer end of the stick having its peripheral portion flared, a ring attached to the stick adjacent the retainer and provided with a thimble, ribs pivotally connected to the ring, and a collar loose on the thimble and having spiral connection therewith and provided at its upper end with an outer flange formed in its upper side with radial grooves in which the inner ends of the ribs are seated and which are clamped between the flared portion of the retainer and the flange of the collar.

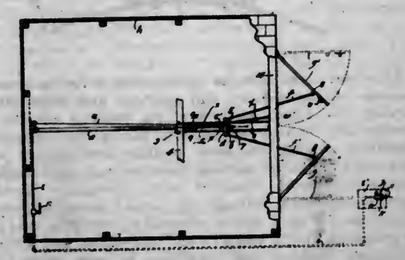
1,455,606. STUFFING-BOX GLAND. MAURO DI LORENZO, Landisburg, W. Va. Filed Dec. 16, 1919. Serial No. 345,226. 1 Claim. (Cl. 286—33.)



The combination with a stuffing box having a reciprocating piston rod therein, of a bushing for said stuffing box formed in two sections, said sections being formed from segmentally shaped sleeve sections having flanges, said flanges at their ends being oppositely cutaway in relation to the flanges of the other section, thereby forming a complete flange of uniform thickness when the sections are brought together, the engaging edges of the semicircular sleeve sections and the flanges extending radially

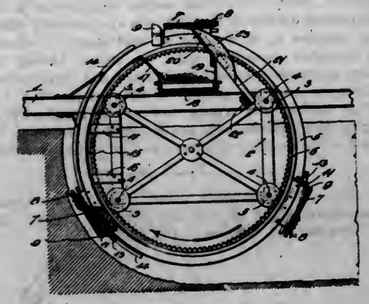
in relation to lines at diametrically opposite locations on the inner side of the sleeve and the engaging edges of the flanges of the sections being acutely disposed in relation to each other and diverging from said lines.

1,455,607. HYDRAULIC DOOR-OPENING MECHANISM. CHARLES L. DU BOIS, Portland, Oreg. Filed Jan. 14, 1921. Serial No. 437,248. 2 Claims. (Cl. 268—9.)



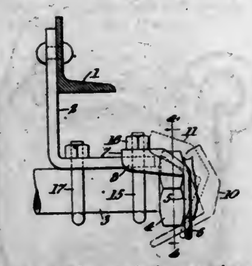
1. In a hydraulic door opening device, a hydraulic cylinder and piston therein connected with the door, a connecton between the cylinder and a head of water, a valve in said connection controlling the admission, and drainage of the water, into and from, the cylinder, automatic means for positioning the valve to permit the water to flow into the cylinder, means for holding the valve in closed position, a latch for locking the door, and means operatively connected with the piston for releasing the latch when the water pressure moves the piston.

1,455,608. EXCAVATING WHEEL. JOHN DUDER, Salt Lake City, Utah, assignor of one-half to Howard S. Brown, Oasis, Utah, and one-fourth to Samuel W. Stewart, Salt Lake City, Utah. Filed May 26, 1921. Serial No. 472,735. Renewed Mar. 24, 1923. 2 Claims. (Cl. 37—97.)



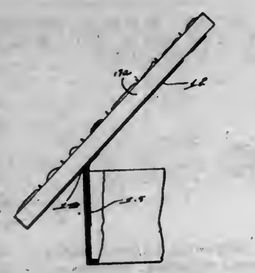
1. In an excavator, a rotatable wheel having spaced side rings, open ended buckets carried by the side rings, a stationary bottom strip extending between the side rings adjacent their inner peripheries for a portion of the circumference of the wheel, side strips extending circumferentially of the wheel and conforming to the position and length of the bottom strip, doors for the rear ends of the buckets hingedly mounted at the sides for opening outwardly and provided with lever arms extending for engaging said side strips and holding the doors closed while the buckets are moving upwardly along the bottom strip, and a scraper for passing through the buckets, the arms moving out of engagement with the side strips and the doors moving to an open position as the scraper passes through the buckets, and the rings limiting outward movement of the doors.

1,455,609. ANGLE-COCK HOLDER. CLEON M. HANNAFORD, Richmond, Va. Filed Aug. 22, 1922. Serial No. 583,657. 7 Claims. (Cl. 248—31.)



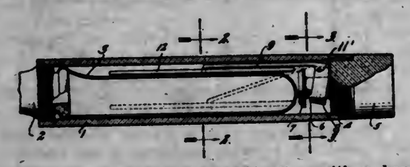
1. An angle cock holder, made in one piece and having a front portion divided to straddle the angle cock between the hex and body of the angle cock, and having separate rearward extensions at the top of the front portion and integral therewith to engage a support fixed on the car and also having portions to engage the adjacent faces of the hex of the angle cock to prevent the angle cock from turning, the holder being applicable to the angle cock from below by an upward tilting movement rearwardly from in front of the hex on the angle cock.

1,455,610. DISPLAY DEVICE. ALFRED T. HASKELL, Newtonville, Mass. Filed Feb. 21, 1921. Serial No. 446,627. 2 Claims. (Cl. 206—44.)



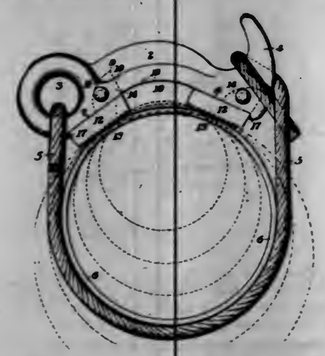
1. A candy box having a top display layer of candy disposed upon a plate of a degree of stiffness to hold the candy pieces intact as it is removed, said plate equipped with means adapted to engage an edge of the box and hold said plate bearing the display layer in predetermined position with reference to the box.

1,455,611. FOUNTAIN-PEN FILLER. PAUL S. HAUTON, Elizabeth, N. J., assignor to The Hauton Corporation, a Corporation of Delaware. Filed Mar. 18, 1920, Serial No. 366,793. Renewed Apr. 15, 1921. Serial No. 461,680. 8 Claims. (Cl. 120—46.)



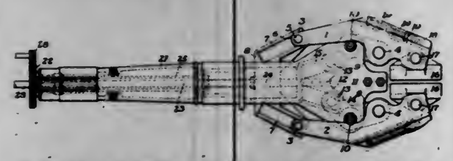
1. In a fountain pen the combination with a barrel with a collapsible bag therein of collapsing means for said bag, and a rotatable screw member for operating said collapsing means, said screw member having a predetermined dead motion in moving in both directions whereby the screw member must be rotated a number of times after the bag has become distended and thereby allow sufficient time for the filling action to take place.

1,455,612. PIPE GRIP. CHARLES M. HEETER, Butler, Pa. Filed June 8, 1921. Serial No. 476,056. 1 Claim. (Cl. 81—64.)



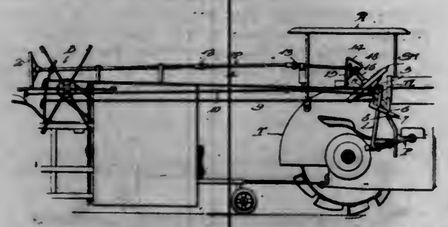
A device of the character described, comprising a rigid body portion having a plurality of gripping sections maintained in fixed relation thereon, each gripping section having a plurality of gripping teeth in operative position, there being an eye adjacent one of said sections and a horn adjacent another of said sections for cooperation with a gripping cable, adjacent sections providing a space therebetween for the reception of a portion of the material being operated upon.

1,455,613. TONGS. SAMUEL B. HEPPENSTALL, Pittsburgh, Pa. Filed Aug. 6, 1921. Serial No. 490,377. 17 Claims. (Cl. 294—115.)



1. Tongs comprising gripping members, each having a separate pivotal mounting, and means for simultaneously moving said mountings laterally to vary the operating range of the tongs, substantially as described.

1,455,614. TRACTOR ATTACHMENT. FRED T. HEUER and GEORGE D. LATTA, Princeton, Ill.; said Latta assignor to said Heuer. Filed Nov. 5, 1920. Serial No. 422,069. 2 Claims. (Cl. 74—39.)



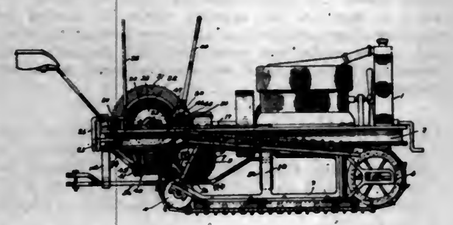
1. The combination with a tractor provided with a clutch pedal and a trailer connected to the tractor; of a bell-crank-lever detachably connected to the pedal, an operating rod pivotally connected to said lever, extending rearwardly to and being operable from the trailer, a shoulder on said tractor, a trip-lever carried by said first lever and being engageable with the shoulder, and an operating member extending rearwardly from the trip-lever to the trailer, being likewise operable from the latter.

1,455,615. AUTOMOBILE TIRE. EUGENE L. HODGE, Far Rockaway, N. Y. Filed May 12, 1922. Serial No. 560,327. 2 Claims. (Cl. 152—8.)



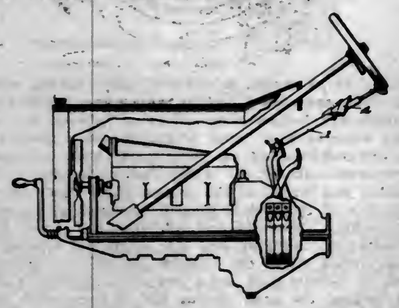
1. A cushioning shell for tire casings including arcuate sections having reduced end portions and slots therethrough, the larger portions of the sections adapted to overlap said reduced portions and having lugs depending therefrom through the slots, springs connected to said lugs and to adjacent sections by other lugs, said sections having additional elongated slots, fastenings on the sections extending through the second mentioned slots, blocks one for each section adapted to engage a rim and be embraced by the beads of the tire casing, and springs interposed between and supported by said blocks and said sections.

1,455,616. TRACTOR. FRANK HODGKISS, Oakland, Calif. Filed May 10, 1921. Serial No. 468,338. 4 Claims. (Cl. 180—17.)



1. In a tractor, a transmission comprising a longitudinal shaft driven by the motor, a transversely disposed clutch adapted to be rotated by said shaft, a transverse shaft mounted co-axially with the clutch having transmission gears thereon, a longitudinal rod terminating in a transverse rod rearwardly of the clutch with a foot pedal at its free end, and a fork in the longitudinal rod engaging the transmission gears causing the same to be engaged with the clutch when the foot pedal is actuated.

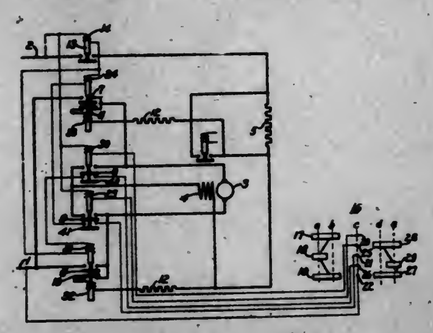
1,455,617. AUTOMOBILE TOOL. FRANK W. JACKSON, Tompkinsville, N. Y. Filed July 20, 1921. Serial No. 486,305. 5 Claims. (Cl. 180—77.)



1. An automobile repair tool comprising a tubular member adapted to serve as a support, a ratchet member

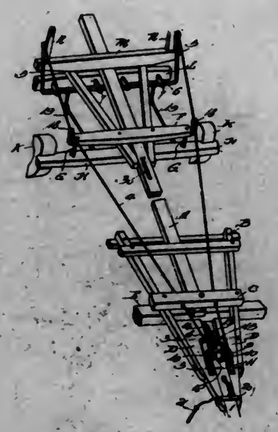
telescoping the tubular member and having a yoke at one end adapted to receive a steering wheel rim or periphery, said tubular member or support adapted to engage or bear upon a pedal and a spring-controlled member fulcrumed upon said support and equipped with an appliance carried by tubular formations on said ratchet support and adapted to engage said ratchet.

1,455,618. MOTOR-CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Mar. 18, 1920, Serial No. 365,467. Divided and this application filed Aug. 22, 1922. Serial No. 583,506. 13 Claims. (Cl. 172—179.)



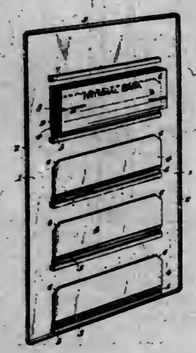
1. The combination with an electric motor having a series field magnet winding, of a dynamic braking resistor and means for connecting the resistor and field-magnet winding in shunt relation during dynamic braking.

1,455,619. BRAKE-OPERATING MECHANISM FOR VEHICLES. JOE JOHNSON, Enterprise, Oreg., assignor of one-half to J. A. Burleigh, Enterprise, Oreg. Filed Mar. 2, 1921. Serial No. 448,966. 5 Claims. (Cl. 188—120.)



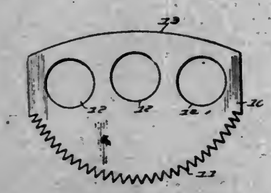
1. Brake operating mechanism embodying a tongue to be slidably mounted on a vehicle, a rotary drum mounted on the vehicle for cooperation with the tongue, a brake operating cable passing over the drum and connected with the inner end of the tongue, and means controlled by the rearward sliding movement of the tongue for limiting said sliding movement and for locking the drum against further rotation at this time.

1,455,620. CHECK-PAD HOLDER. CHARLES W. JONES, New Hampton, Mo. Filed Aug. 31, 1922. Serial No. 585,486. 6 Claims. (Cl. 40—124.)



1. A check pad rack comprising a body portion, and a series of spaced pad holding members secured to the outer face thereof and each consisting of a polygonal shaped base and a holding arm projecting upwardly therefrom, said arm inset at its point of joinder with said base.

1,455,621. SURGICAL SAW. WILLIAM H. JOYNER, East Bernstadt, Ky. Filed June 22, 1921. Serial No. 479,595. 1 Claim. (Cl. 128—317.)

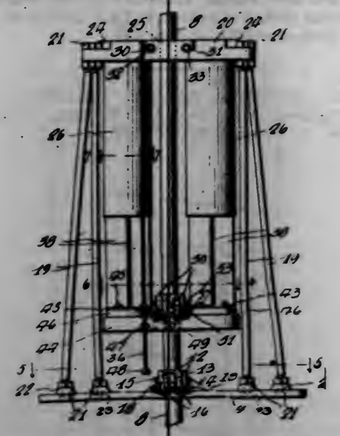


A saw for the purpose indicated having a substantially elliptical blade provided with an arcuate cutting edge of an extent approximately one-half the circumference of the blank between the extremities of the long diameter thereof, the blade being provided with a convexed smooth or back edge opposite the cutting edge and forming a suitable rest for the hand of the operator, the blade being further formed with a plurality of holes for insertion of the fingers to constitute a grip in connection with the convexed back edge.

1,455,622. LIFTING JACK. OTHA B. KIRACOFE, Churchville, Va. Filed Oct. 5, 1921. Serial No. 505,517. 3 Claims. (Cl. 254—93.)

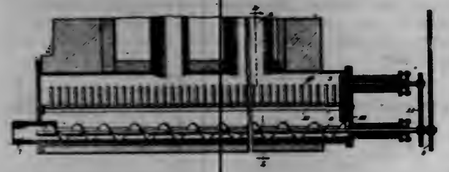
1. A lifting jack having a lifting section provided with a base, a mounting member on which said base is slidable, a second base, said second base being slidable with said mounting member, means on said bases to permit

sliding movement thereof in one direction and to resist sliding movement thereof in the opposite direction, a



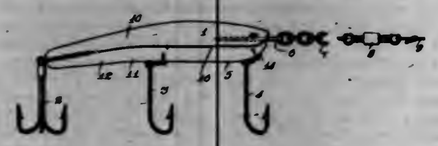
cooperating piston and cylinder supported, respectively, on said bases, and means operable to supply a power fluid to the cylinder.

1,455,623. CLEANING DEVICE. JAY B. KIRK, Iola, Kans. Filed Feb. 16, 1921. Serial No. 445,566. 2 Claims. (Cl. 196—4.)



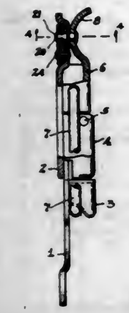
1. A cleaning device including a trough, a conveyor adjacent the base of said trough, and centrally positioned within the same, shafts arranged within said trough and above said conveyor, said shaft being disposed to the sides of the center of said trough, cleaning means carried by said shafts, and means for actuating said shafts and said conveyor.

1,455,624. SUBSURFACE FISH BAIT. WILLIAM E. KOCH, New Rochelle, N. Y. Filed Oct. 18, 1920. Serial No. 417,621. 3 Claims. (Cl. 43—46.)



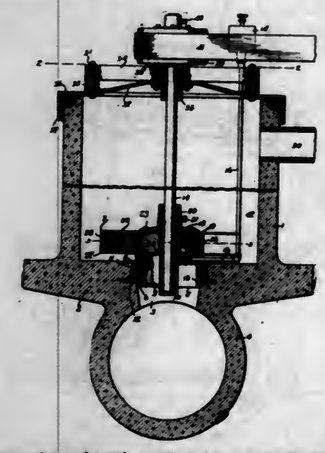
1. A fish lure comprising a body having a straight forward section and a straight rear section depending from the forward section in such a manner that the entire body appears substantially as an arc when looked at from the side, the lower surface of said body from the front to the rear being substantially V-shaped and said surface being rounded at the front to produce a round blunt end merging into the side of the bottom, means for connecting hooks to the bottom of the bait on a central line and to the rear end of the body near the center, and a flexible pulling member connected to the front of said body, said flexible pulling member permitting freedom of the body and said rear depending section acting against the water to throw the body on its side and thereby point the head from a straight course.

1,455,625. FASTENING DEVICE. JACOB F. LANGENAU, Cleveland, Ohio, assignor to The Langenau Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed May 28, 1920, Serial No. 384,809. Divided and this application filed Oct. 23, 1922. Serial No. 596,192. 3 Claims. (Cl. 292—247.)



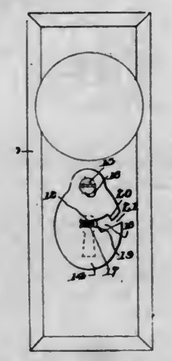
1. In a fastening device of the character described, the combination with two plates designed to be secured in abutting relation on the parts to be fastened together, a hook-like projection rigidly mounted on one of said plates, a member pivotally attached to the other plate, and a link carried by said member and adapted to engage said projection to lock said plates together, said member being provided with a necked stud adjacent its free end; of a resilient member secured on the corresponding plate adapted to engage such stud and thus to retain said member against accidental movement.

1,455,626. WATER PUMP. WALFRID LARSON, Kingsburg, Calif. Filed Sept. 17, 1921. Serial No. 501,434. 5 Claims. (Cl. 103—103.)



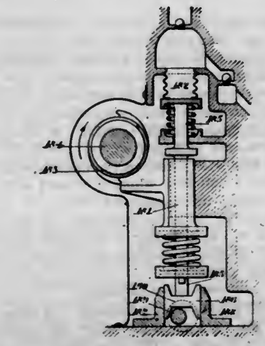
3. A water elevating structure comprising a well formed with a base and an inlet member acting as a lower compartment, a stationary bearing formed substantially as a sleeve and provided with an inner annular shoulder, a second bearing provided with an outer annular shoulder engaging the first mentioned shoulder, said second bearing having a bearing sleeve, an impeller resting on said bearing sleeve, means for interlocking said impeller and said bearing sleeve when the impeller is lifted out of the well, a shaft secured to said impeller and rotatably mounted in said sleeve, and a power member connected with said shaft for rotating the same.

1,455,627. KEY FASTENER. ALFRED ALEXANDER LAWSON, Windsor, Ontario, Canada. Filed May 5, 1922. Serial No. 558,583. 1 Claim. (Cl. 70—7.)



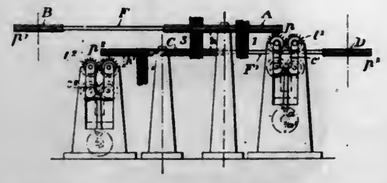
The combination with a plate having a key-hole slot, of a key fastener comprising a plate pivoted on the first mentioned plate for swinging movement, the movable plate having a compound slot opening at one side thereof, and adapted to receive the shank of the key when the latter is positioned within the slot of the first mentioned plate, a shoulder defined by the compound slot and arranged to prevent the movable plate from being removed from the key incident to the swinging movement of the plate in one direction, and said movable plate having an elongated slot for the reception of the pivot therefor, whereby said plate is permitted to be moved vertically to move said shoulder out of the path of said key as and for the purpose specified.

1,455,628. FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES. JULES LEROY, Paris, France. Original application filed July 10, 1920, Serial No. 395,338. Divided and this application filed Jan. 9, 1922. Serial No. 528,116. 3 Claims. (Cl. 123—139.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An improved pulsator pump for internal combustion engines for insuring by injection the delivery of the fuel, comprising a flexible wall and a sliding rod for actuating said flexible wall, means for imparting to said rod its suction stroke, comprising a cam acting upon said rod through the intermediary of a spring, and means for varying the length of the said suction stroke of said rod whereby to control the quantity of fuel injected.

1,455,629. TEXTILE MACHINE FOR FLAX AND LIKE TEXTILE SUBSTANCES. CHARLES FRANÇOIS LESAGE, Pont-Remy, Somme, France. Filed Mar. 22, 1921. Serial No. 454,407. 5 Claims. (Cl. 19—14.)

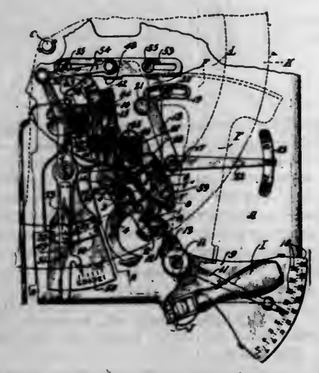


1. A scutching machine for flax or like substances comprising in combination two sets of rotary pulleys having peripheral grooves, each set comprising a main pulley against the periphery of which the handfuls of material are adapted to be clamped, endless members engaging into said grooves in order to clamp the handfuls of materials against the periphery of said pulleys, the two main rotary pulleys occupying in plan view substantially tangential positions, two sets of scutching devices, each set being situated below the corresponding set of rotary pulleys and embodying two scutching drums adapted to receive a rotary motion, and means imparting to said scutching devices a reciprocal vertical movement.

1,455,630. PREPARATION OF STARCH AND SULPHURIC ACID. JOHN ALEXANDER LLOYD, Coventry, England, assignor to Courtaulds Limited, London, England. Filed Mar. 31, 1922. Serial No. 548,529. 1 Claim. (Cl. 18—54.)

The method of obtaining a preparation for use in setting baths for viscose, which comprises the step of dissolving starch in sulphuric acid of substantially from 50 to 65 per cent concentration at a temperature of substantially from 35° C. to 75° C.

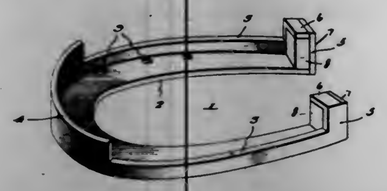
1,455,631. CONTROLLING MECHANISM FOR SOUND-REPRODUCING MACHINES. THOMAS H. LOY, Bellaire, Ohio. Filed Dec. 28, 1920. Serial No. 433,709. 51 Claims. (Cl. 274—15.)



1. In control mechanism for sound reproducing machines having a record support and a reproducer, the com-

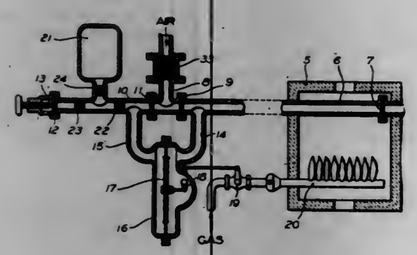
bination of a brake member, latch means for holding said member in non-braking position, means operable synchronously with the playing movement of the reproducer into position for actuating the latch means to unlatch said brake member, and means controlled by said latch means for interrupting the unlatching movement aforesaid and reversing the reproducer.

1,455,632. HORSESHOE. CALVIN L. LUALLEN, Coal Creek, Tenn., assignor of two-thirds to Horace M. Madden, Coal Creek, Tenn. Filed May 24, 1921. Serial No. 472,160. 1 Claim. (Cl. 168—24.)



A horseshoe constructed from a strip of sheet metal, a continuous flange depending from the perimeter of the shoe and being integrally formed therewith, an arcuate toe extension formed on the flange and being of a height approximately equaling the width of the shoe at the toe portion, heel projections formed on the flange and having their outer ends bent laterally and inwardly, extensions formed on the projections and being bent inwardly against the end of the shoe and the projections respectively, said projections and extensions forming pockets, filler blocks designed to fill the pockets, and said toe portion being weightier than the heel extension, for the purpose specified.

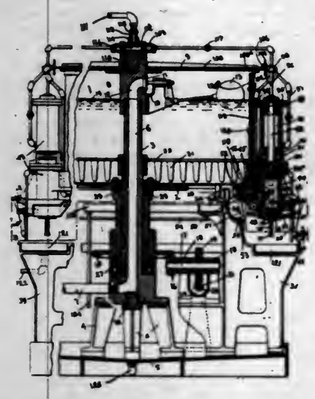
1,455,633. PYROMETER. IVAR LUNDGAARD, Rochester, N. Y. Filed Apr. 28, 1921. Serial No. 465,313. 8 Claims. (Cl. 297—1.)



5. A pyrometer comprising: two chambers having a common connection, through restricted passages, with a source of compressed air, each chamber having also a restricted outlet and one chamber being subjected, between its inlet and its outlet, to the temperature to be measured: and a device subjected, in opposite directions, to the respective pressures in the two chambers and movable in response to differences between said pressures.

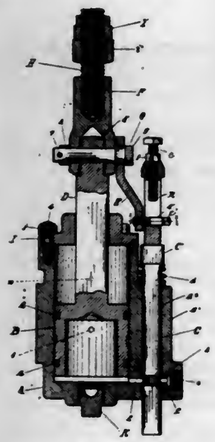
1,455,634. MACHINE FOR MOLDING ARTICLES FROM PLASTIC MATERIAL. FRED W. MCARDLE, Boston, Mass. Filed May 2, 1919. Serial No. 294,286. 22 Claims. (Cl. 92—54.)

1. A machine for forming articles from plastic material comprising forming devices; ducts connecting the forming devices with a source of supply; the forming devices and ducts being movably related to means for opening and closing the ducts; to independent means for



operating the forming devices and to means for ejecting the formed articles from the forming devices.

1,455,635. BELL RINGER. LENWOOD MCCLEARY, Chicago, Ill. Filed Oct. 25, 1919. Serial No. 333,252. 1 Claim. (Cl. 121—2.1.)

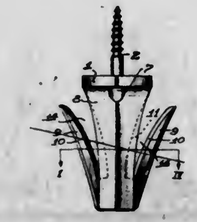


A bell ringer including a piston, a cylinder for the piston having an outward lateral extension, a plunger valve slidable in said extension and longitudinally of the piston, said plunger valve having a groove, said cylinder having inlet ports through said extension to cooperate with said groove, means on said extension for attachment of a fluid supply pipe, a spring resting on the upper end of said extension, an enlargement on the valve to rest on said spring, said valve having an elongated slot above said enlargement, a follower slidable in said slot, a screw adjustably extending into said slot from the upper end of said plunger valve to limit movement of the follower, a link connected to the follower, a bell engaging connecting means, and a pin fastening said link, connecting means and piston together.

1,455,636. CLOTHESLINE HOLDER. JAMES C. MCCONNAL, Detroit, Mich. Filed July 11, 1921. Serial No. 483,663. 1 Claim. (Cl. 24—130.)

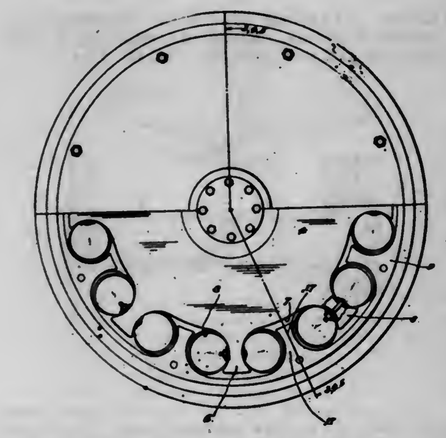
A line holder comprising a back plate, a screw carried thereby and by which said back plate may be connected

to a support, said back plate having openings adapted to receive fastening means by which the plate may be prevented from turning with the screw as an axis, a body extending outwardly from said plate, and having walls curved inwardly from the edges of said plate to the outer



end of said body and curved arms carried by the outer end of said body and curved outwardly relative to said body to cooperate therewith in providing passages with some of the walls of said passages affording binding edges for lines placed in said passages.

1,455,637. WHEEL. CHARLES JUDSON MCCORD, Alpha, Mich. Filed Dec. 30, 1921. Serial No. 526,012. 6 Claims. (Cl. 152—37.)



1. In a wheel, a hub, radial drive spokes on said hub, a felly movable relative to the hub, sets of convolute springs disposed concentrically of the axis of the hub and carried by said drive spokes, and buttresses on said felly engaging said springs to establish resilient connection between the hub and felly and co-acting with said hub for limiting compression of the springs, the springs in said sets each comprising one convolution and having one end attached to said spokes and the other end free.

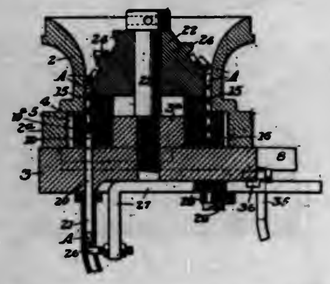
1,455,638. FIRELESS COOKER AND HEATER. MALCOLM J. MCFARLANE, New Orleans, La. Filed Mar. 8, 1921. Serial No. 450,777. 1 Claim. (Cl. 219—35.)

A fireless cooker and heater comprising a housing closed at its top and bottom but having an opening in the side, the said top and side walls of the housing having a facing of insulating material, an insulating disc covering the inside bottom of the housing and having its upper face provided with a tortuous channel presenting exposed arcs concentric with the center of the said disc, a coiled resistance wire disposed in said channel and having its opposite ends passing exteriorly of the



said housing, and a plug socket carried by an exterior portion of the said housing.

1,455,639. FEEDER FOR METAL BLANKS. JOHN A. MCGINNIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, a Corporation of West Virginia. Filed June 27, 1921. Serial No. 480,658. 15 Claims. (Cl. 113—113.)



1. In a feeder for metal blanks, a hopper having downwardly curved convex inner walls, a cone-shaped agitator rotatably mounted within the hopper and having a helical lifting rib upon its periphery, said rib having a pitch sufficient to move the blanks circumferentially simultaneously with the lifting thereof, and rotatable feeder means in said hopper below said agitator, substantially as described.

1,455,640. ROCK DRILL. JOHN J. MCNAMARA, Mountain Ranch, Calif. Filed Aug. 20, 1920. Serial No. 405,202. 4 Claims. (Cl. 255—64.)

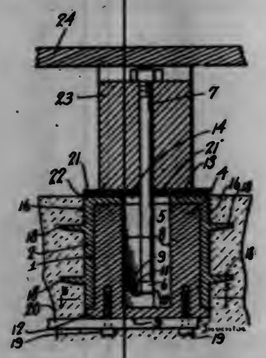


1. A rock drill comprising a drill head having a slot in one end thereof, a drill bit having a shank extended into the slot and a bowed spring member between the shank and a wall of the slot in contact intermediate of its ends with the shank and at its end with the side edges of the slot.

1,455,641. ANCHORING DEVICE. HOWARD C. MAHON, East Liverpool, Ohio. Filed Oct. 28, 1921. Serial No. 511,051. 5 Claims. (Cl. 72—105.)

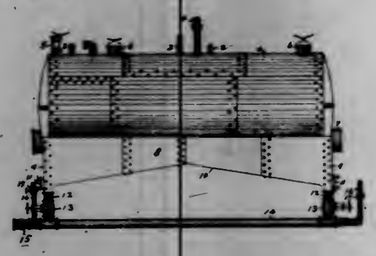
1. An anchoring device of the character specified, comprising an inner section consisting of a flat base and

a body portion formed with a longitudinal slot whose side walls are provided at their inner ends with recesses, an outer section fitting over the inner section and provided in its outer wall with a slot registering with that



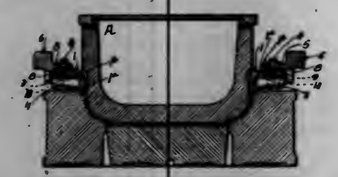
of the inner section and a T-bolt arranged with its head engaging the recesses of the inner section and its shank extending through and above the slots of the inner and outer sections.

1,455,642. STILL. JOHN M. MAHONEY, Houston, Tex. Filed Apr. 14, 1921. Serial No. 461,294. 2 Claims. (Cl. 196—6.)



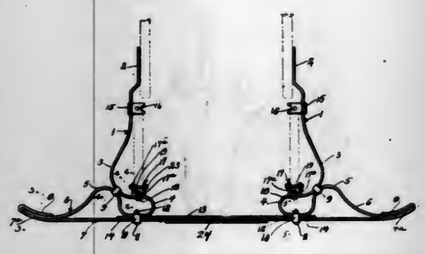
1. A still including a boiler whose bottom is formed with a collecting vat beneath, the bottom of said vat being oval in cross section and declining each way from an intermediate line, an outlet pipe on each side beneath the vat, valve controlled drain pipes leading from the lowest points of the bottom of the vat and connected with the respective outlet pipes, a valve controlled steam line entering one end of each outlet pipe and a valve controlling the other end thereof.

1,455,643. FOLLOWER RING. STEPHEN W. MANNING, Altoona, Pa. Filed Dec. 10, 1921. Serial No. 521,518. 9 Claims. (Cl. 49—72.)



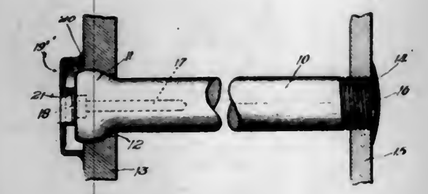
1. In combination with a spring plate, an expansible follower ring, and connections between the plate and said ring permitting the ring to expand and contract independently of the plate.

1,455,644. BUMPER. WALLACE S. MARTIN, Monongahela, Pa. Filed Nov. 25, 1922. Serial No. 603,258. 4 Claims. (Cl. 293—55.)



1. In a bumper, side members adapted for attachment to an automobile, said members being provided at their forward ends with curved resilient arms, the side members being further provided with loop elements connecting said side members and the arms, and a bar connecting the forward ends of the arms, said bar being secured to the forward portions of the loop elements.

1,455,645. FLEXIBLE STAY-BOLT CONSTRUCTION. ROBERT S. MENNIE, Chicago, Ill. Filed Aug. 4, 1919. Serial No. 315,178. 6 Claims. (Cl. 85—1.5.)



1. The combination with the outer and inner sheets of a boiler having alined openings therein, of a staybolt passing through said openings, and having an enlarged head at its inner end, said head having a spherical zone cooperating with a correspondingly shaped seat to provide a ball and socket joint, the end of said staybolt being substantially flush with the inner surface of said inner sheet, the opposite end of said bolt being provided with a member having also a spherical zone cooperating with a corresponding seat to form a second ball and socket joint whereby angular movement of each of said sheets with reference to the staybolt is permitted.

1,455,646. AIR PUMP AND GAUGE. CLARENCE MILLARD, Arkansas City, Kans. Filed Oct. 11, 1921. Serial No. 506,961. 2 Claims. (Cl. 230—24.)

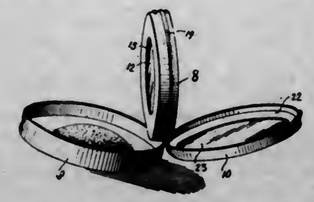
1. An air pump comprising a cylinder, a transverse partition sub-dividing the cylinder into two chambers, a piston operable in one of the chambers, means for connecting the other chamber with the part to be inflated, said partitions having a valve controlled passage between the two chambers and a vent passage for the escape of excessive pressure, a valve closing the vent

passage and operable by excessive pressure to uncover said vent passage, a spring for holding said valve nor-



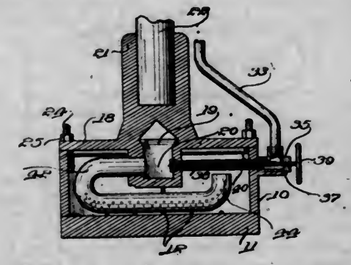
mally seated, and means for varying the effective tension of the spring whereby the pump may be set for inflating to any predetermined pounds pressure.

1,455,647. COMBINATION VANITY BOX. SIMON MORRISON, New York, N. Y. Filed Sept. 28, 1922. Serial No. 591,017. 4 Claims. (Cl. 132—83.)



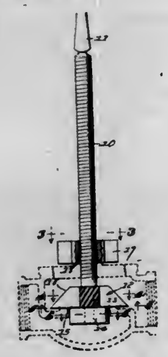
1. A combination vanity case, comprising a central box and two outside boxes, said two outside boxes closing on said central box in a telescopic manner; a unitary hinge construction to rotatably connect said three boxes; a powder compact or similar cosmetic preparation at one side of said central box and a mirror surface at the other side; a partition in one of said outside boxes, said partition having recesses therein to receive cosmetic preparations and the like; a mirror surface at the bottom of the other one of said outside boxes, and releasable means to keep said outside boxes in a closed position on said central box.

1,455,648. SELF-HEATING TOOL FOR ASPHALT PAVEMENTS. TOM MORRISON, Toledo, Ohio, assignor of one-half to Maurice Shuer and Abraham Hattner, both of Toledo, Ohio. Filed Oct. 10, 1921. Serial No. 506,708. 2 Claims. (Cl. 158—27.)



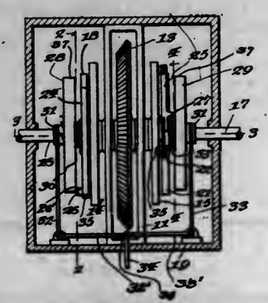
1. In a device of the class described, a hollow body, a cover therefor, a burner and means for mounting the latter within the hollow body in position for directing flame into contact with the upper surface of the bottom of said body, and means for supplying fuel to the burner, said hollow body having a rounded bottom, a handle extending laterally from the body, and a pivoted foldable member for supporting the handle in position for maintaining the body substantially level.

1,455,649. VALVE RESEATER. ARTHUR W. NOYES, Arlington, Vt. Filed Feb. 12, 1920. Serial No. 358,285. 1 Claim. (Cl. 90—12.5.)



A tool for the purpose described having a shank provided with a wrench seat at one end and threaded substantially throughout its length, the shank at the extremity remote from the wrench seat being reduced and made cross sectionally angular to provide a seat, the terminal of the extension being exteriorly threaded, a reversible bit fitted on said seat and provided with flat and conical cutting surfaces, a circular guide mounted on the threads of the reduced extension and bearing against the bit to maintain the same in place, and a gauge nut mounted upon the threads of the shank for contact with a valve casing.

1,455,650. DIFFERENTIAL GEAR. BRYAN O'DONNELL, Vail, Iowa. Filed Sept. 14, 1921. Serial No. 500,478. 2 Claims. (Cl. 74—7.)

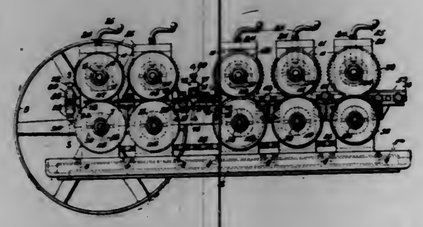


1. A differential including a driving shaft, a pair of longitudinally alined driven shafts, a disk on each end of the driving shaft, a disk on each of the driven shafts adjacent a disk of the driving shaft, each of the first disks having oppositely directed notches, pawls carried by each of the second disks, a pawl of each of the disks normally engaging one of the notches of a corresponding first disk, and means for simultaneously rocking the pawls to disengage the engaged pawls and engage the disengaged pawls with the remaining notches of the disks.

1,455,651. COMPOSITION OF MATTER. NELS L. OLSON, Detroit, Mich. Filed June 17, 1922. Serial No. 568,909. 3 Claims. (Cl. 75—1.)

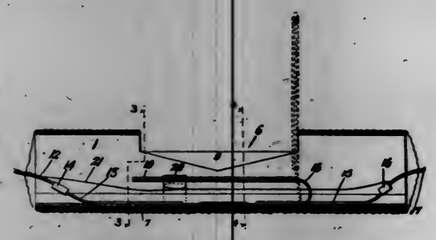
1. A metallic alloy subjected when in use to external heat at high temperatures composed of iron from ten per cent to twenty-five per cent, chromium from ten per cent to twenty per cent, nickel from sixty per cent to seventy per cent, carbon from two per cent to six per cent, silicon from one per cent to three per cent, aluminum one per cent to two per cent, and manganese from one per cent to two per cent.

1,455,652. LOCK-SEAM TUBE-FORMING MACHINE. RUDOLPH OSOSKE, Detroit, Mich., assignor, by mesne assignments, to The Economy Gage and Manufacturing Company, Inc., Detroit, Mich., a Corporation of Michigan. Filed Apr. 14, 1921. Serial No. 461,407. 8 Claims. (Cl. 113—33.)



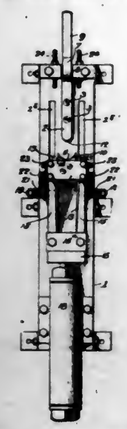
1. A lock-seam tube-forming machine, comprising a series of pairs of rolls for drawing a flat strip of metal through the rolls, drawing fillers between the rolls for progressively locking the edges of the strip into a lock seam, a mandrel with a longitudinal groove therein over which the formed tube is drawn, and other pairs of rolls having greater peripheral speed than the first named pairs of rolls for pulling the tube over the mandrel with the last named pairs of rolls depressing the lock seam into the groove for finishing the tube with a cylindrical outer surface, the machine also being provided with tube straightening means located to receive the tube after leaving the last pair of rolls.

1,455,653. FAVOR AND SNAPPING MOTTO. ARTHUR G. PALMER, Hastings-upon-Hudson, N. Y. Filed May 22, 1920. Serial No. 383,583. 7 Claims. (Cl. 46—46.)



1. In a favor or snapping motto, the combination with a hollow cylinder of a lateral opening therein, a spring mounted device within said cylinder adapted to be projected through said opening when released, means for restraining said device, means for controlling said restraining means and a cover for said opening.

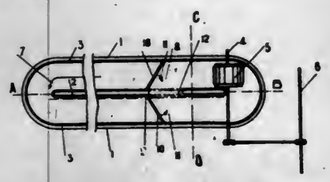
1,455,654. MACHINE FOR FORMING LUG STRAPS. CHARLES H. PEIRSON and WILLIAM A. BOHUS, Philadelphia, Pa., assignors to E. F. Houghton & Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1922. Serial No. 584,701. 5 Claims. (Cl. 69—8.)



1. The combination in a machine for forming lug straps, of a back plate; a block thereon; a movable former; means for moving the former to clamp a blank against the block; a cylinder; a plunger mounted in the cylinder; a cross head on the plunger; and arms on the crosshead extending on each side of the block and arranged to bend the blank around the former as the plunger is raised.

5. The combination in a machine for forming lug straps, of a back plate; a fixed block thereon; a movable former mounted above the block, the former and the block being shaped to curve the end of the lug strap; a spring for yieldingly holding the former; a cam for moving the former towards the block; a cylinder on the back plate; a plunger in said cylinder; a cross head on the plunger; slotted arms projecting from the cross head, the arms having their inner surfaces beveled; a wedge on the inner side of each arm, each wedge having a stud projecting through the slot in its arm; a spring on the stud yieldingly holding the wedge against the arm; a spring attached to each stud and to the arm tending to hold the wedges in the forward position and adjustable stops to limit the movement of the wedges and to allow the arms to be raised independently of the wedges in order to force the wedges towards the former.

1,455,655. PROCESS OF AND MEANS FOR TANNING HIDES. VITTORIO PERADOTTO, Gallenca, Turin, Italy. Filed Apr. 15, 1922. Serial No. 553,112. 2 Claims. (Cl. 149—10.)



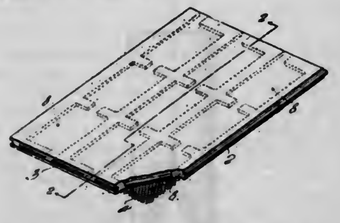
2. The combination with a hide-tanning vat adapted to contain an unheated tanning liquid and having a perimetric wall, of means for maintaining a rapid and continuous circulation of the unheated tanning liquid, a central partition extending longitudinally of the vat and terminating short of the ends thereof, and provided with an opening intermediate its length, and doors hinged to said partition at one end of said opening therein and normally closed to permit circulation of the liquid throughout the entire length of the vat, said doors, when opened, contacting with said perimetric wall and thereby restricting circulation of the liquid to a portion only of the vat.

1,455,656. SHAVING BRUSH. ELAINE HALE PHILLIPS and NICOLAS V. DE LIPSKI, New York, N. Y. Filed Apr. 18, 1922. Serial No. 554,846. 3 Claims. (Cl. 15—248.)



1. A devce for attachment to the handle of a shaving brush to catch and retain the drip from the bristles when the brush is inverted comprising a cup having a flexible and elastic body portion extended outward and inward, means at the bottom of the cup for attaching it to the brush, and a ring of absorbent material confined within the body of the cup to retain the drip, whereby the absorbent material may be compressed between said body portion and brush to expel the liquid absorbed thereby.

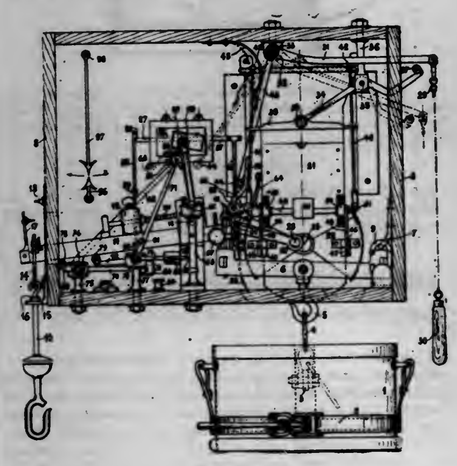
1,455,657. BUILDING SLAB. FRANK PONTELLO, Calumet, Mich. Filed June 1, 1922. Serial No. 565,045. 4 Claims. (Cl. 108—10.)



1. A building slab formed of molded plastic and having air pockets extending through it, each pocket being reduced in width at points intermediate its length and having reduced neck portions at its ends projected through the edge faces of the slab.

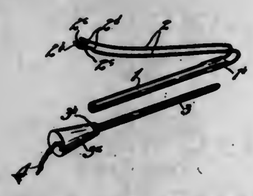
1,455,658. AUTOMATIC GRAIN-WEIGHING AND SACK-FILLING MACHINE. THEODORE MARC POUMADE, Marseille, France. Filed Aug. 13, 1921. Serial No. 492,182. 4 Claims. (Cl. 249—48.)

1. In an automatic grain-weighing and sack-filling machine, an unequal armed beam fulcrumed at one-sixth of its length, adjustable means on said beam for compensating the tare of the sacks, a guided weight hanger freely suspended from the end of the longest arm of said beam, a bridge freely suspended at one end to a stationary part of the machine and at the other from the end of the shortest arm of the beam and having a drum freely suspended at its centre and adapted to have the sack removably secured thereto, in combination with: a pair of semi-cylindrical large delivery doors having sector-shaped sides, mounted on a common pivot and normally closing the mouth of the delivery chute under the action of their own gravity; an adjustable small discharge opening in one of said doors; a small delivery door normally closing said opening and having arms pivoted to the sides of the corresponding large door at a point eccentric to the pivot of said door; hand-operated means for opening simultaneously the large and small doors; lugs on the said doors; hook-ended weighted levers for retaining the two large doors and the small door in open position by engagement with said lugs; a big and a small pivoted trip-hammer adapted to cause said levers to release respectively the two large and the small doors; spring-influenced hand-operated means for setting said hammers in the inoperative position jointly with the opening of the doors; hooks at the rear of the mass of said hammers; means under the direct influence of the beam for causing the big and the small hammers successively to



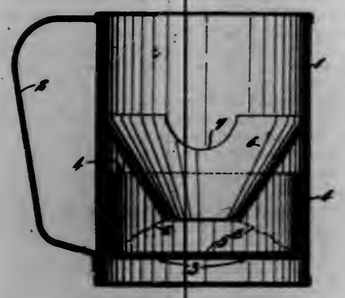
pass from the set inoperative to the operative position, said means consisting of the pivoted three-armed compensators having one arm fitted at the end with a roller in operative contact with the underside of the beam at a different distance from the latter's fulcrum for each compensator and a second arm, opposite the first, provided with an adjustable weight, a nose formed at the end of the third arm of said compensators and adapted to engage the hook of the corresponding hammer and an adjustable push-screw for the said corresponding hammer carried by said arm immediately below said nose; stationary abutments for the weighted arm of aforesaid compensators whereby the latter's movement is stopped just before the beam completely reaches its balanced position; and means for registering each weighing operation; all substantially as described.

1,455,659. HAIR CURLER. JACOB RANZ, St. Louis, Mo. Filed May 23, 1922. Serial No. 562,997. 8 Claims. (Cl. 132—41.)



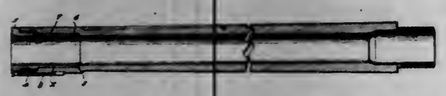
2. A hair curler comprising a tube, a loop having bent ends inserted within and engaged by the walls of said tube.

1,455,660. FLOUR SIFTER. JACOB RANZ, St. Louis, Mo. Filed Dec. 4, 1922. Serial No. 604,797. 5 Claims. (Cl. 83—60.)



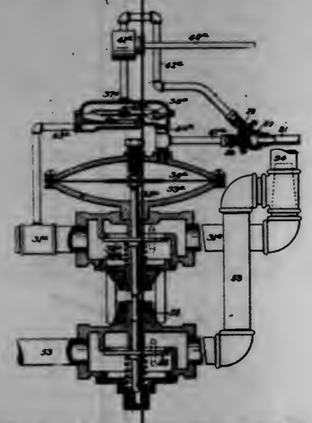
1. A flour sifter comprising a supporting body, a floating sifting member loosely mounted therein, and means for delivering flour to be sifted at a medial point relative to the sifting member.

1,455,661. CHOKE FOR SHOTGUNS. EDWARD L. RHINEHART, Roanoke, Va. Filed Aug. 2, 1922. Serial No. 579,209. 2 Claims. (Cl. 42—79.)



1. A gun barrel having its outer end provided with a cylindrical part of greater diameter than the bore, a tapered shoulder connecting the said cylindrical part with the bore and a screw threaded part of greater diameter than the cylindrical part having interchangeable choke tubes, each provided with a cylindrical part for engaging the cylindrical part of the bore, a tapered end for engaging the tapered shoulder and a screw threaded part for engaging the threaded part of the barrel, a knurled head on each tube overlapping the outer end of the barrel and means for locking the tube in the barrel.

1,455,662. THERMOSTATIC VALVE MECHANISM. FREDERICK W. ROBERTSHAW, Pittsburgh, and GEORGE A. ROBERTSHAW, Greensburg, Pa. Filed Jan. 20, 1921. Serial No. 438,738. 12 Claims. (Cl. 236—80.)



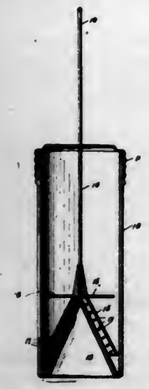
9. Thermostatic valve mechanism comprising a main valve, a diaphragm for actuating the main valve, a diaphragm operated auxiliary valve for controlling the operation of the main valve, and thermostatic means for controlling the operation of the auxiliary valve, together with a second main valve arranged to be controlled by the first named main valve, substantially as described.

1,455,663. THERMOSTAT. FREDERICK W. ROBERTSHAW, Pittsburgh, and GEORGE A. ROBERTSHAW, Greensburg, Pa. Filed Sept. 10, 1921. Serial No. 499,599. 16 Claims. (Cl. 236—102.)



16. A thermostat, comprising a controlling device having a movable operating member, an expansible member, a revolving couple connecting said device and said expansible member, a non-expansible member co-operating with said expansible member for operating the movable member of said device, and means permitting removal of the movable member of said device without affecting the setting of the thermostat, substantially as described.

1,455,664. HOUSEHOLD MIXING APPARATUS. JAMES H. RUSSELL, Oklahoma, Okla. Filed Sept. 1, 1920. Serial No. 407,358. 1 Claim. (Cl. 259—113.)



A device of the class described having a receptacle, a substantially conical member therein with its apex uppermost, a hollow dasher of substantially conical formation having an inner transverse wall to engage said apex and maintain the outer wall of the dasher in spaced relation to said conical member, a substantially conical attaching member on the dasher which said transverse wall constitutes its base, a perforated baffling plate on said substantially conical attachment member whereby it may be wedged in place against longitudinal movement thereon, and an operating stem secured to and extending from said attaching member.

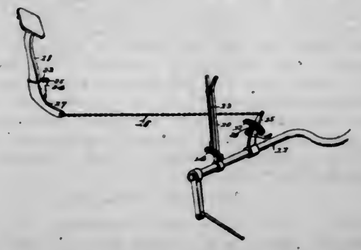
1,455,665. SAFETY RAZOR. JOHN RUZE, New York, N. Y. Filed Aug. 1, 1919. Serial No. 314,675. 1 Claim. (Cl. 30—12.)

A safety razor comprising a body portion bent upon itself to provide a curved head and a threaded base, a handle having a threaded portion for engagement with the threaded portion of said base, a curved guard member having a plurality of semi-circular fingers, the end fingers of which are adapted to have their free ends contacting with the blade of the razor for protecting the user from the sharp corners thereof, and the other fingers having their free ends spaced from said blade whereby the blade is



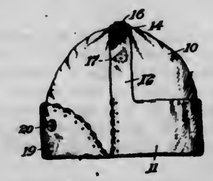
unobstructed beneath the cutting edge thereof, an extension projecting upwardly from said threaded portion and being engaged on diametrically opposite sides by the body portion and a finger of the guard members respectively, and said extension being adapted to terminally engage the guard member as and for the purpose specified.

1,455,666. EMERGENCY BRAKE. CROSS G. SAVELL, Silver City, Miss. Filed May 9, 1921. Serial No. 468,121. 1 Claim. (Cl. 74—39.)



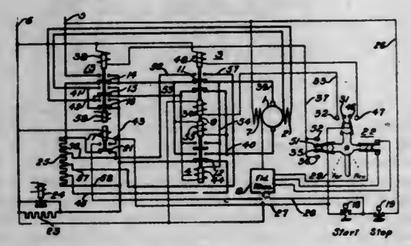
An emergency brake mechanism for cars of the type indicated having a manually actuable brake lever and controller shaft to which said lever is attached, and a cam plate provided with a shank connected with said shaft, a pair of arms attached respectively to the cam plate shank and to the clutch pedal shank, and a flexible connection between said arms and consisting of a chain terminally secured to the extremities of the arms, the arms being struck from plate metal and provided with side ears having registering openings for the reception of a transverse bolt, the side ears embracing the shanks respectively of the clutch pedal and the cam plate.

1,455,667. CAP. SIEGFRIED SCHANZER, New York, N. Y. Filed Aug. 4, 1921. Serial No. 489,677. 1 Claim. (Cl. 2—107.)



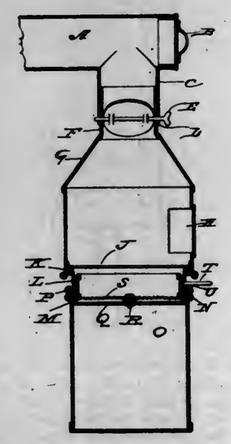
A cap comprising a body member adapted to fit and cover the head of the wearer, a substantially wide integral extension depending from the back of said member forming neck and ear covering portions adapted to be turned up and down on a fold line between the extension and body member, integral chin straps narrower than said extension depending from and at right angles to each of said ear covering portions and having their ends each provided with a button-hole, one of said chin straps having its outer face provided with a button situated between and within the end portions and side margins thereof, and a button positioned at the apex of said body member and adapted to engage the buttonholes of said chin straps in overlapping relation at a single point when turned up, the button on said chin strap adapted to engage the buttonhole on the other chin strap when turned down holding the ends of the chin straps extending in different directions in lengthwise overlapping condition.

1,455,668. MOTOR-CONTROL SYSTEM. GEORGE B. SCHEER, Berkeley, Calif., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 22, 1922. Serial No. 570,108. 9 Claims. (Cl. 172—240.)



1. The combination with an electric motor having an armature and a series field-magnet winding, of a plurality of armature-reversing switches, a dynamic-braking resistor and means for energizing said reversing switches to effect dynamic braking upon failure of power supply to said motor.

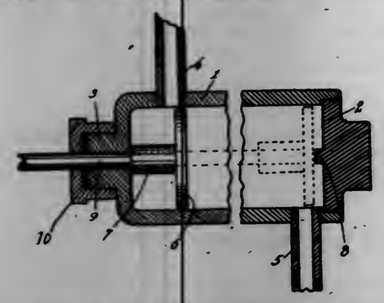
1,455,669. COMBINED DUST CONVEYER AND ASH SIFTER. HENRY S. SCHMIDT, Williamsport, Pa. Filed Apr. 5, 1923. Serial No. 630,039. 2 Claims. (Cl. 83—60.)



1. A dust conveyer of the character and for the purpose stated, consisting of a horizontally disposed pipe or flue having an open end, a removable cap for said open end, a depending outlet branch, a collecting hood having an upwardly extending branch entering said outlet

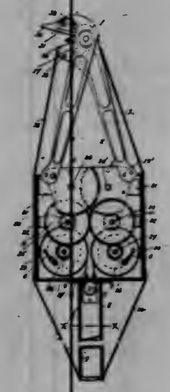
branch, a damper in said branch, a door for collecting hood, a flanged ring below the door in said collecting hood, an ash sifter having its mouth formed with a bead to fit tight against the underside of said flanged ring, and an ash receiver fitting upon said ash sifter.

1,455,670. AUTOMATIC VALVE. WILLIAM H. SCHMIDT, Cincinnati, Ohio. Filed June 17, 1922. Serial No. 568,910. 4 Claims. (Cl. 236—25.)



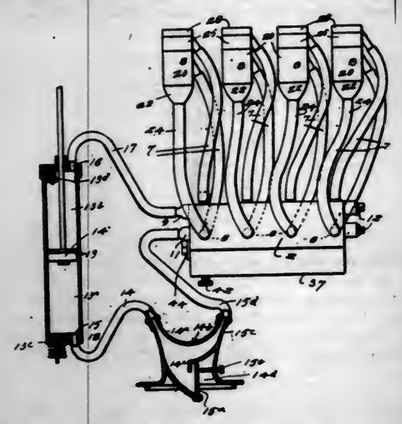
1. A device of the character described, comprising a cylinder, a piston therein, inflow and outflow pipes from said cylinders, means for positively limiting the piston movement in one direction to a point between the two pipes, and in the other direction to a point short of the end of the cylinder but beyond a position to block the flow between the two pipes, and a rod connected to said piston and passing out through the cylinder at the end adjacent the inflow pipe, said piston being so constructed as to permit restricted flow of a medium of pressure past it within the cylinder.

1,455,671. DISTANCE-OPERATED CUTTING PLIERS. PIETRO SECCAMANI, Brescia, Italy. Filed July 7, 1920. Serial No. 394,537. 6 Claims. (Cl. 164—46.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



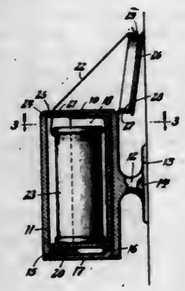
1. In a tool of the character described, a casing having an exteriorly tapered open end, a pair of arms located in said casing and pivoted together independently of said casing, a pair of laterally projecting cutting jaws carried by said arms located exteriorly of the tapered open end of the casing, the tapering exterior of the casing acting to guide a wire into the space between said jaws for cutting action whereby the tool may be operated at a point distant from said wire, and actuating means for said jaws arranged in said casing and supporting said jaws in position therein.

1,455,672. MILKING DEVICE. HENRY R. SEIFERT, East Ellsworth, Wis. Filed Sept. 18, 1920. Serial No. 411,050. 4 Claims. (Cl. 31—100.)



1. A milking device comprising teat cups, high and low teat squeezing means in said cups, a casing having high and low pressure chambers and said high pressure chamber connected to a pump, means connecting the chamber to the high and low teat squeezing means, a vacuum chamber in said casing and connected to the pump and cups, means permitting air pressure to pass from the high pressure chamber to the low pressure chamber at a predetermined pressure in said high pressure chamber, and means exhausting air pressure from the low pressure chamber to the high pressure chamber when the pump exhausts the pressure from the latter.

1,455,673. DENTAL FLOSS DISPENSER. VICTOR J. SHALEK, Oak Park, Ill. Filed Jan. 12, 1922. Serial No. 528,660. 12 Claims. (Cl. 242—138.)

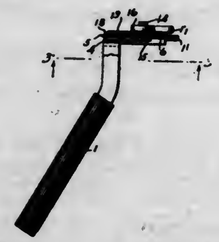


1. In a dental floss dispenser, a container adapted to hold a spool of dental floss, a cover, means pivotally joining said cover to one edge of said container, a clip adapted to hold a strand of floss secured to said cover, at a point substantially diametrically opposite the pivot means, and means for guiding the floss from said container at a point also substantially diametrically opposite the pivot means.

1,455,674. SAFETY RAZOR. JOHN J. SHORT, New York, N. Y. Filed Aug. 4, 1921. Serial No. 489,783. 1 Claim. (Cl. 30—12.)

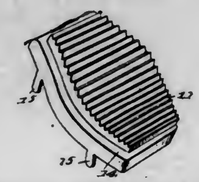
A safety razor comprising a handle mounting a U-shaped frame substantially at right angles thereto a

plate covering said frame, thus forming a slot between the frame and the cover for the insertion therein of a



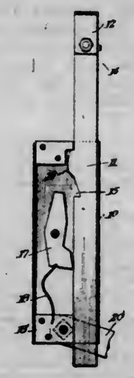
blade, and means carried by the cover for clamping the blade in place.

1,455,675. EXTENSION PEDAL PAD FOR AUTOMOBILES AND SIMILAR MOTOR-DRIVEN VEHICLES. DANIEL SINCLAIR, New York, N. Y. Filed Apr. 18, 1922. Serial No. 554,977. 4 Claims. (Cl. 74—810.)



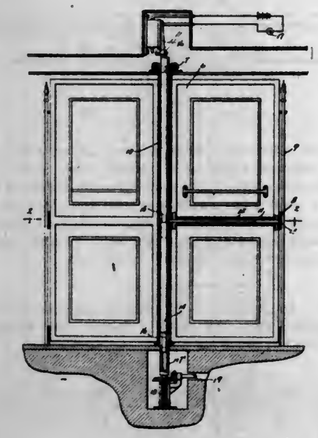
1. An extension pad having a rim forming a seat for a surface cushion, a bearing plate fitted in the rim in contact with the rear surface of the cushion, and means for securing the rim and plate to a pedal.

1,455,676. CLUTCH CONTROL. OLIN G. STARK, Tunkhannock, Pa. Filed June 19, 1922. Serial No. 569,192. 2 Claims. (Cl. 74—81.)



1. An attachment for tractors, comprising a housing, adapted to be supported adjacent the clutch control arm, a locking bar movable through the housing and terminally connected with said arm, a pawl pivoted within the housing and adapted to engage said bar to hold the latter in a position to maintain the clutch disengaged, a yieldable element associated with said pawl, and said bar being constructed to cooperate with the pawl to effect a release of itself incident to the movement of said arm as described.

1,455,677. DOOR LOCK. SAMUEL ROSS STEVENS, New York, N. Y. Filed Nov. 2, 1921. Serial No. 512,307. 12 Claims. (Cl. 20—1.01.)



1. A door lock including in combination with a revolving door comprising a plurality of rotatably carried panels, and means providing an area way, the side of which extend adjacent the outer edges of said panels, rods carried by said panels and means for projecting said rods for causing the outer edges of the same to extend beyond the outer edges of said panels, and pass through openings formed in the side walls of said area way.

1,455,678. SWITCH-THROWING MECHANISM. GEORGE STILLE, Staunton, Ill. Filed Feb. 14, 1922. Serial No. 536,522. 7 Claims. (Cl. 246—341.)



3. The combination with a bar controlling a track switch and engaging devices carried by the bar, of car carried means cooperating with said engaging devices, successively, for moving the switch points toward and away from adjacent rails of a track, said car carried means including a bar pivoted for movement in a horizontal plane, and means for retaining the bar last named in a plurality of operative positions.

1,455,679. PREPARATION OF SULPHURIC ACID STARCH COMPOSITION. WILLIAM HENRY STOKES, Coventry, England, assignor to Courtaulds Limited, London, England. Filed Mar. 31, 1922. Serial No. 548,526. 3 Claims. (Cl. 18—54.)

1. The process of making mixtures of starch and sulphuric acid, consisting in mixing the starch, in a finely divided condition, with sulphuric acid of such dilution, and at such moderate temperature, that no gelatinization takes place, and then rapidly adding, whilst stirring, a quantity of concentrated sulphuric acid sufficient to yield, on continued stirring, a homogeneous product of the desired concentration.

1,455,680. RAIL JOINT. WILLIAM H. SWINDELL and LEWIS PHILLIPS, Waldo, Fla. Filed Oct. 26, 1922. Serial No. 596,995. 4 Claims. (Cl. 238—216.)



1. A rail joint comprising a chair plate, a pair of oppositely disposed angle bars formed with slotted extensions and depending lugs, said extensions seated on said plate and said lugs extending through the plate, and securing elements for said plate, certain of said securing elements extending through said slotted extensions and further extended on said angle bars.

1,455,681. FIRE BOX. ROBERT B. TAYLOR, Baltimore, Md. Filed Mar. 30, 1920. Serial No. 369,912. 1 Claim. (Cl. 110—87.)



A fire box arch comprising spaced sections and an intermediate section, said sections being arranged in end to end relation, the adjacent ends of the respective sections being cut away, said cut away portions of the respective sections unitedly defining substantially semi-cylindrical recesses, the upper surface of said spaced sections being provided with raised portions having slots opening at the ends of the sections, and lugs carried by the intermediate section and projecting beyond the ends thereof and adapted to be received by said slots, overlapping the spaced sections for the purpose specified.

1,455,682. PACKING. OSCAR W. THUMBULL, Buffalo, N. Y. Filed May 19, 1920. Serial No. 382,578. 7 Claims. (Cl. 288—1.)

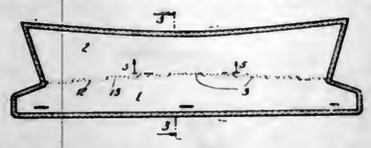


2. A packing formed with that portion along one side wider than the portion along the other side thereof so that when wound or curved into circular form it will be substantially rectangular in formation.

6. A packing having a cushion core, and suitable covering material around said cushion core vulcanized together and to said core with grooves in opposite sides of the packing.

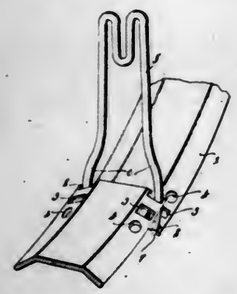
1,455,683. FOLDING COLLAR. JOHN MANNING VAN HEUSEN, Jamaica Plain, Mass., assignor to Van Heusen Products, Inc., a Corporation of Delaware. Filed Nov. 10, 1921. Serial No. 514,165. 5 Claims. (Cl. 139—9.)

1. A folding or turn-down collar made of a single piece of heavy fabric and having a natural fold portion provided by a series of relatively short, narrow portions of modified weave which are so arranged with respect



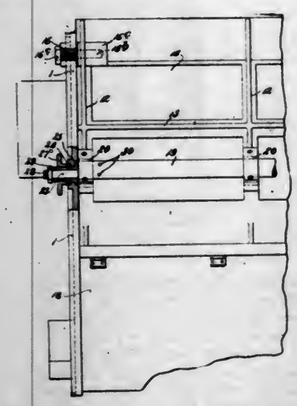
to each other that, taken together, they form a generally curvilinear fold portion in the collar.

1,455,684. DEMOUNTABLE RIM. SAMUEL B. VARNER, Granby, Mo. Filed Mar. 25, 1922. Serial No. 546,761. 1 Claim. (Cl. 301—34.)



A resilient wheel rim, each of the end portions of which is provided with longitudinal series of apertures adjacent to its side edges; one end aperture of each series being in the form of a notch in one end of the rim, whereby a double tang tool can be used to expand the rim and position the ends thereof in opposed relation.

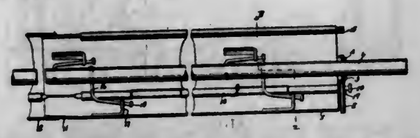
1,455,685. ROLL-BOX STRUCTURE FOR GINS. ARTHUR A. VARDELL, deceased, late of Dallas, Tex., by Highland Gee Vardell, executrix, Dallas, Tex., assignor to Carver Cotton Gin Company, East Bridgewater, Mass., a Corporation of Massachusetts. Original application filed Nov. 30, 1920, Serial No. 427,368. Divided and this application filed Sept. 1, 1922. Serial No. 585,687. 9 Claims. (Cl. 19—55.)



3. A gin comprising a saw cylinder, a roll-box having a movable front wall, a rake-head secured to said wall,

means for adjusting said front wall in a direction axial of the saw cylinder, and means for securing said front wall in adjusted position.

1,455,686. COLLAPSIBLE CORE. JAMES F. WALLACE, Brooklyn, N. Y. Filed Jan. 7, 1922. Serial No. 527,600. 5 Claims. (Cl. 25—128.)



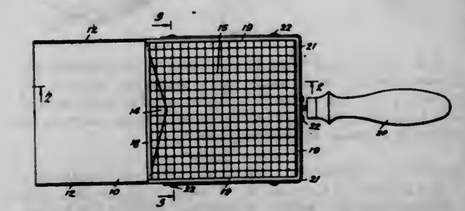
2. A collapsible core of the character described comprising a tubular body divided into longitudinal sections, two of said sections having longitudinally arranged inturned hook edges, said sections with the removable sections being hinged together with longitudinally positioned hinges, a clamping member spanning said inturned hook edges and extending into the hooked parts thereof, said clamping member being slidable into and out of engagement with said hook members, and means operable from one end of the core body for collapsing said sections after said clamp has been removed.

1,455,687. GANG DISK PLOW. STOKELY D. WALTON, Imperial, Calif. Filed Aug. 3, 1922. Serial No. 579,398. 4 Claims. (Cl. 97—53.)



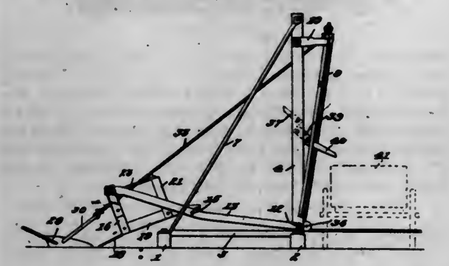
1. An apparatus of the class described comprising an axle having bearing wheels and supported to swing relative thereto at the ends, a jointed pull bar rigidly connected by the rear portion to the axle, an arm connected to one of said wheel supports, a controlling rod pivoted respectively to the arm and to the forwardly directed portion of the pull bar, a beam member swinging at its forward end relative to said axle and carrying a plurality of earth engaging cutting disks, and a brake device adjustably coupling said beam to said axle, whereby the angular position of the beam relative to the axle may be controlled.

1,455,688. SHOVEL. ALBERT WEICKMAN, Harrison, N. Y. Filed Jan. 13, 1923. Serial No. 612,445. 2 Claims. (Cl. 83—60.)



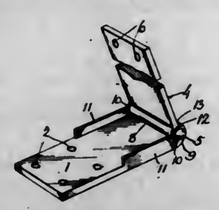
1. As a new article of manufacture, a combined shovel and sieve including a shovel body comprising a bottom, an end flange and side flanges, said bottom having an opening therethrough adjacent the flanged end, a foraminous lining arranged in said lining body adjacent the flanged end for covering the opening, an attaching and covering strip secured to the forward edge of the foraminous material and to the inner side of the bottom and side flanges and inturned beads from the upper edge of the side and end flanges embracing the upper edges of the foraminous lining.

1,455,689. EXCAVATING AND LOADING APPARATUS. GEORGE WEIDINGER, Mount Sterling, Ohio. Filed Sept. 22, 1921, Serial No. 502,498. Renewed Mar. 5, 1923. 3 Claims. (Cl. 214—92.)



1. An apparatus of the kind described comprising a suitable frame, uprights mounted thereon, arms pivotally connected to said uprights, a material carrying platform, means to connect said platform to said arms, means on said connecting means to prevent said platform from tilting backward when raised and to maintain said platform when raised in a substantially horizontal position, a material carrying receptacle adapted to be placed on said platform, a bail for said receptacle, bail abutting means on said platform, power means attached to said bail to raise said platform, and platform tilting means.

1,455,690. HINGE. GEORGE W. WELLS, Amesbury, Mass., assignor to Walker Body Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1922. Serial No. 555,551. 2 Claims. (Cl. 16—128.)



1. In a hinge, a body member having its outer end portion provided with a longitudinal channel and a hood closing the outer end of said channel, and a complementary member having a hinge pin connection with the outer end of said body member and adapted at its outer end portion to fit within said channel, said hood partially inclosing and concealing the hinged end of said complementary member.

1,455,691. AUTOMATIC DOOR CLOSER. LEONIDAS D. WEST, Denver, Colo. Filed July 1, 1922. Serial No. 572,275. 10 Claims. (Cl. 16—57.)

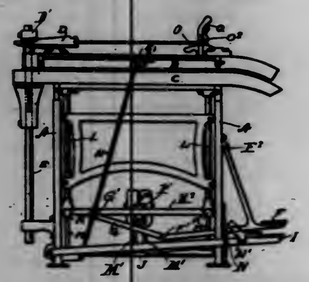
9. A door closer, comprising in combination, a cylinder, a cap secured to each end thereof and adapted to close the same, one of said caps having a hinged portion and a pair of lugs formed integral therewith, the other cap having a central threaded stud with an axial opening therethrough, a tubular piston rod passing through the

opening in said stud, a nut cooperating with said stud and adapted to form therewith a packing box, a piston within said cylinder and threadedly connected with one end of said piston rod, and a yoke piece connected to the other end, the last named end extending through said yoke piece, a nut threadedly connected to said extending end a rod slidable within said piston rod and threadedly connected to the last named nut, a pair of telescoping tubes



joining the lugs on the cap and the yoke, springs within said tubular members, a valve in said piston, yielding means to hold the valve in closed position, means to permit a liquid to pass through the piston in a direction opposed to said valve, means operated by the rod within the tubular piston rod for controlling the last named means, and a tubular member opening into the piston at two spaced points near one end thereof.

1,455,692. SEAM-PRESSING MACHINE. WILLIAM WILKIE, Glasgow, Scotland. Filed June 28, 1919. Serial No. 307,304. 3 Claims. (Cl. 68—9.)



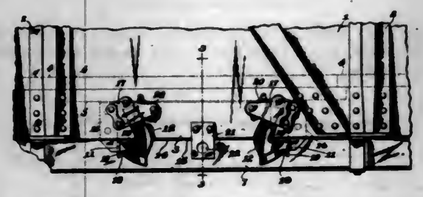
3. In a machine for opening and pressing seams of wearing apparel, the combination of a frame, an upper heated arm supported on the frame; a vertical shaft journaled at one end of the frame; a lower heated arm secured on the vertical shaft and means for drawing fabric between the heated arms comprising a clip slidable on the upper arm, a treadle journaled on the frame, and levers connecting the sliding clip to the treadle.

1,455,693. GRAIN SEPARATOR. ORA WOOD WILLIAMS, Minneapolis, Minn. Filed Dec. 8, 1921. Serial No. 521,002. 8 Claims. (Cl. 130—18.)



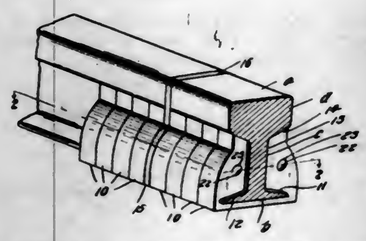
1. A separating surface formed with pockets having centrally depending discharge throats that downwardly decrease in depth.

1,455,694. CAR-DOOR-LOCKING DEVICE. WILLIAM E. WINE, Toledo, Ohio. Filed Jan. 12, 1922. Serial No. 528,651. 12 Claims. (Cl. 105—308.)



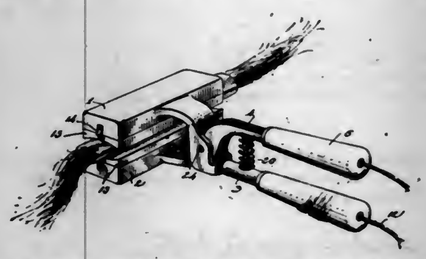
1. In a door device for railway cars, a door hinged to the car body, a door supporting mechanism embodying means for supporting said door in partially closed position and additional means for holding it in fully closed position, a bracket affixed to the car body and providing a fulcrum adjacent an edge of the door, and a lever seat carried by said door, said fulcrum forming a seat adapted to receive a lever for forcing the door from a partially closed position to a fully closed position.

1,455,695. RAIL JOINT. JOSEPH WOLL, McKeesport, Pa. Filed Sept. 28, 1922. Serial No. 591,099. 6 Claims. (Cl. 238—205.)



1. A rail joint comprising means recessed to seat a rail, an anchoring plate for disposition intermediate adjacent ends of the rails, and means to secure said plate to the first mentioned means.

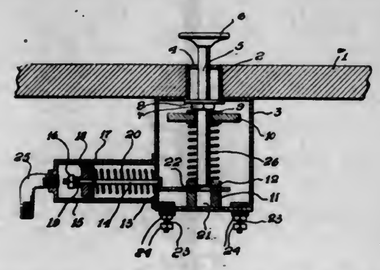
1,455,696. ELECTRIC OVEN FOR HAIR. ALICE M. WRIGHT, Detroit, Mich. Filed Sept. 28, 1922. Serial No. 591,051. 5 Claims. (Cl. 219—24.)



1. A heater comprising two sections having handle portions crossing each other and pivotally secured together, a heating element mounted within each section, and a heating plate detachably secured upon each of the opposing surfaces of said sections.

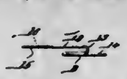
1,455,697. LOCKING DEVICE FOR AUTOMOBILE STARTERS. LAURIE W. YONCE, Jacksonville, Fla. Filed June 22, 1922. Serial No. 570,078. 7 Claims. (Cl. 74—81.)

7. A pedal locking device of the character described, comprising a casing secured to the lower face of an automobile flooring, a spindle fitted within said casing, a locking member secured within the casing and formed with a transverse slot therethrough, a locking plate fitted within the said member, a cylinder mounted on the outer face of the casing, a pressure pipe connected to the outer end of said cylinder, a piston rod connected to



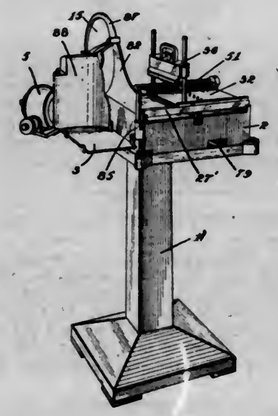
the locking plate, an expansible piston mounted on said rod, a piston expander mounted on the rod, a nut fitted to the outer end of said rod, a coiled spring mounted on the rod between said nut and expander, a spring surrounding the rod between the piston and said casing, and pressure means within said cylinder adapted to impart a reciprocal movement to said locking plate.

1,455,698. HOOK AND EYE. JOHN J. ABRAHAMS, Grand Rapids, Mich. Filed Jan. 16, 1922. Serial No. 529,602. 1 Claim. (Cl. 24—225.)



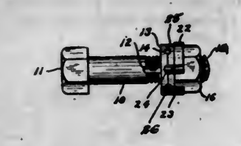
As a new article of manufacture, a hook formed from a single piece of material, an enlarged apertured end portion, and a tongue forming a continuation of the bill of the hook and projecting therefrom in a reversed direction for the purpose specified.

1,455,699. MEAT-SLICING MACHINE. FRED ADAM, Ford, and NAPOLEON L. ADAM, Sudbury, Ontario, Canada. Filed Oct. 6, 1922. Serial No. 592,784. 3 Claims. (Cl. 17—102.)



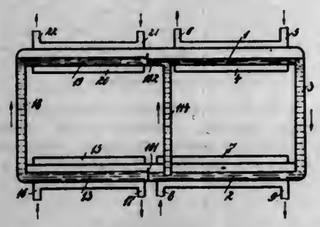
1. A meat slicer comprising a casing, a blade mounted at one end thereof a carriage slidable on the casing along the plane of the blade, a supporting plate mounted on the carriage and slidable to and from the blade, a worm supported by the carriage, a nut fixed to the plate and engaging the worm, a ratchet at one end of the worm, said ratchet including a downwardly extending finger, a pair of stop members in the path of said finger, parallel racks connected to said stop members, and a pinion in engagement with said racks.

1,455,700. NUT LOCK. ROBERT B. ADAMS, Kempton, Pa. Filed July 8, 1921. Serial No. 483,329. 1 Claim. (Cl. 151—6.)



The combination with a bolt provided with threads and with a longitudinal slot of a washer provided with notches on one face thereof and provided with an inwardly extending lug entering the aforesaid slot, a second washer provided with notches adapted for registration with those first named, said second washer including a projecting element on one face thereof, and a nut having threads for engaging the threads in the bolt and provided with a notch on one face thereof, the notch being proportioned for receiving the projecting element on the second washer, an annular resilient element proportioned to surround the nut, and including an engaging device having an annular portion adapted to project into registering apertures of the second washer and the aforesaid washer.

1,455,701. REFRIGERATING APPARATUS OF THE ABSORPTION TYPE. EDMUND ALTENKIRCH, Fredersdorf, near Alt-Landsberg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Aug. 14, 1922. Serial No. 581,775. 1 Claim. (Cl. 62—119.)



In a refrigerating apparatus of the absorption type the combination of a boiler for containing an absorption liquid and heating means for disengaging a vapor from the absorption liquid, an absorber for containing an absorption liquid and a vapor to be absorbed, an uninterrupted conduit interposed between the absorber and the boiler and adapted to convey the absorption liquid from the absorber to the boiler and means for maintaining a pressure difference between the boiler and the absorber, said means including a hydrostatic column of liquid in said conduit.

1,455,702. OPENER. JAMES BARR, Beaver, Pa. Filed Apr. 4, 1922. Serial No. 549,495. 2 Claims. (Cl. 220—43.)

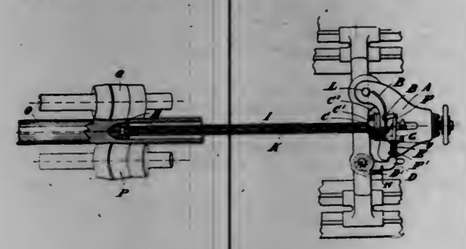
1. In combination with a box including a bottom member and a cover member fitting over said bottom member, the bottom member being provided with an outer annular flange and the cover member having an outer

annular flange spaced above the flange of the bottom member, a ring fitting about the box between said flanges and provided at each end with an outwardly projecting



pressure receiving element, and a loop fitting about said elements so as to positively limit movement of the same away from each other.

1,455,703. PROCESS AND DEVICE FOR PRODUCING HOLLOW BLOCKS FOR MANUFACTURING SEAMLESS TUBES. THEODOR BECKER, Dusseldorf, Germany. Filed Jan. 30, 1923. Serial No. 615,907. 7 Claims. (Cl. 80—13.)



1. The herein described process of producing hollow metal bodies, which consists in rolling a hot metal block or ingot over a piercing mandrel carried by a hollow mandrel rod having the end thereof remote from the mandrel secured in a fixed position, causing the passage of water through said hollow rod to the interior of the mandrel and thence out, during the rolling and piercing operation, then stopping the flow of water and releasing the fixed end of the mandrel rod and moving the fixing means into position to permit the hollow body to be drawn off the mandrel rod in the direction of its axis.

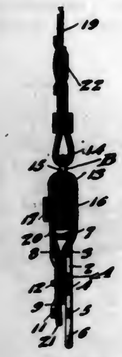
1,455,704. FRICTION DRIVING GEAR FOR MOTOR VEHICLES, MOTOR BOATS, AND AIRCRAFT. ROBERT BLAKOE, London, England. Filed July 17, 1919. Serial No. 311,597. 2 Claims. (Cl. 74—26.)



1. In friction change-speed gear, the combination of a driving shaft; a rotatable driving friction disk; means whereby the disk is driven by the shaft at a point distant from its center; an axle; a driven friction disk splined on the axle and engaging the driving disk, and a reverse driven friction disk also splined on the axle.

1,455,705. HARNESS TRACE SUPPORT AND ASSEMBLY. PHILIP BOSTROM, Gooding, Idaho. Filed Aug. 26, 1922. Serial No. 584,467. 10 Claims. (Cl. 54—54.)

6. In combination, with a harness including a belly-band billet strap looped to support a trace and portions to support the loop, a buckle having a transverse spreader bar fitted between the ends of said strap to present the bar adjacent the lower edge of the trace and provided with cross-bars engaging the ends of the strap to retain its looped form, and a supporting loop carried by the sup-



porting portions of the harness fitted in the bight of the billet strap and provided with a spreader bar disposed adjacent the upper edge of the trace.

1,455,706. COARSE-PITCH SPIRAL-BEVEL GEAR. FERDINAND A. BOWER and BENTON CATALINE, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 23, 1919. Serial No. 332,798. 4 Claims. (Cl. 74—41.)



1. A curved tooth bevel gear set comprising a driving pinion having less than 10 teeth and a driven gear continuously meshing therewith, capable of transmitting the driving torque of a motor vehicle when properly constrained to resist motion with respect to each other in other than a circular direction.

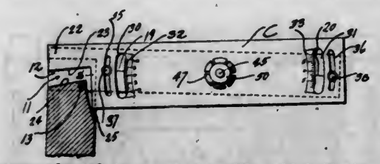
1,455,707. RECOVERY OF ETHER. JEAN HENRY BRÉGEAT, Paris, France, assignor to Bregeat Corporation of America, Wilmington, Del., a Corporation of Delaware. Filed Aug. 27, 1921. Serial No. 495,962. 7 Claims. (Cl. 260—151.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A process which comprises bringing a gas containing vapor of ether and alcohol into contact with a sulfonic acid liquid, and thereafter recovering ether from said liquid.

1,455,708. PROTRACTING SQUARE. MILO BROWN, Anderson, Ind. Filed Jan. 6, 1921. Serial No. 435,437. 4 Claims. (Cl. 33—93.)

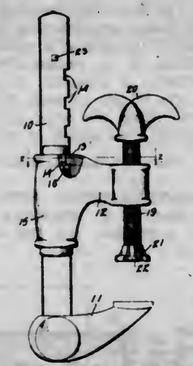
1. In a protractor, the combination of a stock, a blade rigidly mounted upon said stock and having an indicator

mark thereon, a second blade relatively wider than said rigidly mounted blade, detachable means pivotally mounting said wider blade upon said rigidly monted blade, and centrally thereof, said wider blade having gradulations



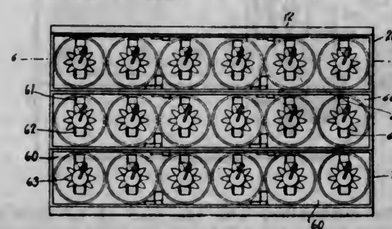
thereon adapted to cooperate with said indicator mark upon the rigid blade for indicating the angle between the two blades, and guiding means for limiting movement of said pivoted blade.

1,455,709. CLAMP. RALPH BURBANK, Memphis, Tenn. Filed Dec. 20, 1921. Serial No. 523,725. 3 Claims. (Cl. 144—303.)



1. A clamp comprising a shank having notches, fixed and movable jaws thereon, said movable jaw having a tooth engageable selectively with said notches and the jaw being mounted for sidewise oscillation on the shank to move said tooth into and out of engagement with said notches, substantially as set forth.

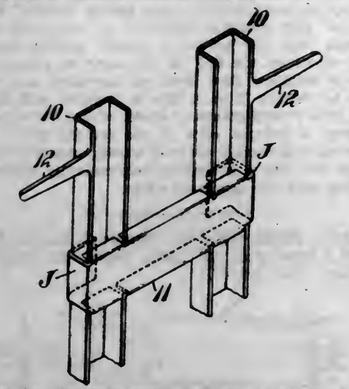
1,455,710. CALCULATING MACHINE. CHENG WEN CHIH, Canton, China. Filed Jan. 31, 1920. Serial No. 355,469. 5 Claims. (Cl. 235—74.)



1. In a device of the class described, a series of rotatable disks, each disk bearing an outer series of numerals and a second series of numerals reading in the opposite direction, and interengaging devices longitudinally movable and acting to permit one numeral of either series to be exposed on each disk, to the exclusion of all other numerals on the same disk.

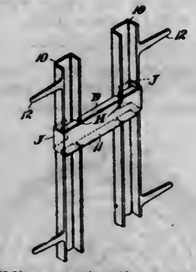
1,455,711. FRAME CONSTRUCTION FOR FIREPROOF WALLS OR PARTITIONS. CORNELIUS COLLINS, Burlingame, Calif. Filed Nov. 24, 1920. Serial No. 426,189. 3 Claims. (Cl. 72—112.)

1. A frame construction for walls or partitions, comprising a series of channel bar supporting elements, each having on the outer edge of one of its flanges a series of integral prongs adapted to the bent in any direction at right angles to the longitudinal axis of the bar to form



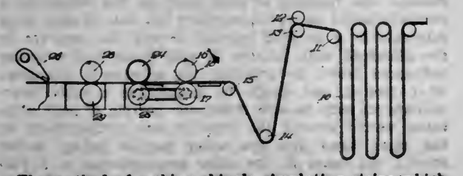
fasteners for plaster-receiving members, each prong comprising a straight projection having its side faces parallel with the longitudinal axis of the bar.

1,455,712. FRAME CONSTRUCTION FOR FIREPROOF WALLS OR PARTITIONS. CORNELIUS COLLINS, Los Angeles, Calif. Original application filed Nov. 24, 1920, Serial No. 426,189. Divided and this application filed Dec. 28, 1921. Serial No. 525,299. 2 Claims. (Cl. 72—115.)



1. In a building construction, a supporting element comprising a series of channel bars arranged in parallel relation, a clip having flanges adapted to fit transversely between the flanges of the channels, a body plate forming a part of said clip with which the flanges are integrally formed, and an end extension formed as a part of said body plate and adapted to encompass the opposite outer sides of the channels whereby the clips will be held in rigid relation thereto and the channels in fixed spaced relation to each other.

1,455,713. SHINGLE STRIP AND METHOD OF MAKING IT. DONALD A. CUMFER, Detroit, Mich. Filed Sept. 17, 1920. Serial No. 410,841. 1 Claim. (Cl. 91—67.9.)



The method of making shingle simulating strips which consists in providing an elongated sheet of roofing material comprising a base sheet having a coating of plastic

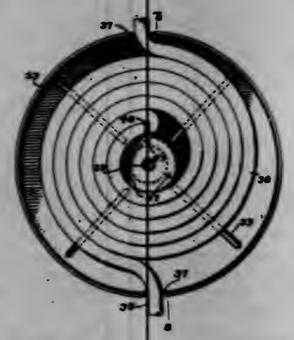
asphalt of uniform thickness and a covering of finely divided mineral substance of contrasting color; continuously moving the sheet, and while moving embedding a group narrow relatively long spaced, parallel straight areas of said mineral substance at separated regular intervals into the subjacent plastic coating until the latter shows on the face of the sheet in simulation of separate shingles, then severing the sheet into shingle strips by cutting it on a line in a plane with like terminal ends of said groups of areas, with the areas extending from a common edge of the severed strips to the transverse mid-portion thereof, leaving substantially one-half of the strips, extending longitudinally thereof, unprovided with the depressed areas.

1,455,714. DUMP WAGON. ROBERT T. DAILEY, Omaha, Nebr. Filed July 12, 1921. Serial No. 484,029. 5 Claims. (Cl. 298—7.)



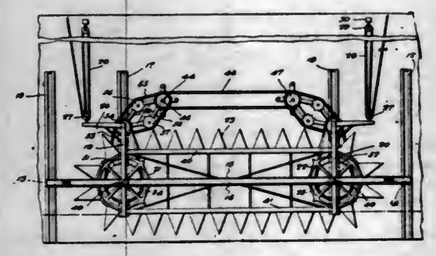
1. A dump wagon having gate leaves pivotally mounted in the sides of the body for rearward swinging movement, a chute plate hinged in the plane of the bottom of the body for disposition in horizontal extension thereof, means for locking the chute plate in an upright position in the path of rearward swinging movement of said gate leaves, and a spout pivotally monted on the chute plate and provided with means for disposing it in alignment with the space defined by the leaves when arranged in operative relation with the chute plate.

1,455,715. EXTENSION DEVICE. JOSEPH DANESE, Philadelphia, Pa. Filed Sept. 10, 1921. Serial No. 499,806. 6 Claims. (Cl. 242—109.)



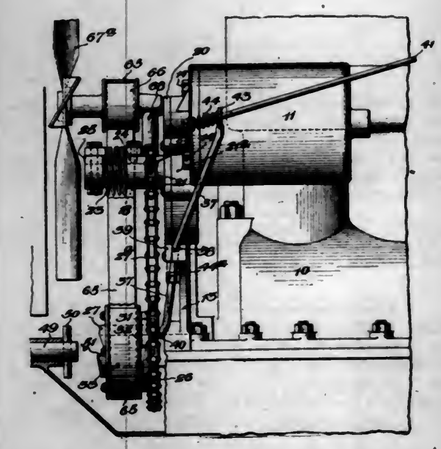
2. An extension device for cables comprising a hollow casing divided by a centrally apertured wall into parallel compartments, an axially concentric drum rotatably mounted within said casing, recoil means tending to restrain the rotation of said drum in one direction, a circumferential flange intermediate the ends of said drum rotatable in a grooved runway around the aperture in the aforesaid wall, notches in said flange and a spring influenced detent for arresting the rotation of the drum when desired, and means for connecting a cable intermediate its ends to said drum, one portion of said cable being wound around the drum in one compartment to the right hand and the other portion being wound around the drum in the other compartment in a like direction, the free ends of the cable projecting through diametrically opposed openings in the peripheral surface of said hollow casing.

1,455,716. MECHANISM FOR PROPELLING VESSELS. ELMER GEO. DARY and ARTHUR PHINEAS CLUTE, Quincy, Ill. Filed Mar. 31, 1922. Serial No. 548,456. 7 Claims. (Cl. 115—64.)



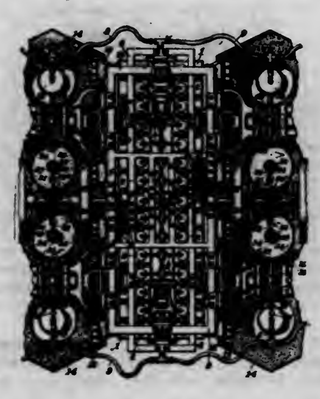
1. In a device of the class described, an endless propelling element, means for mounting the same for vertical adjustment, at the side of a vessel, and means for imparting movement to the endless element, said means last named including a plurality of pairs of sprocket wheels, one of the wheels of each pair being movable toward and away from the other wheel of that pair, and chains connecting the wheels of corresponding pairs.

1,455,717. ENGINE-STARTING SYSTEM. JAMES K. DELANO, New York, N. Y. Filed May 11, 1918. Serial No. 233,895. 4 Claims. (Cl. 290—36.)



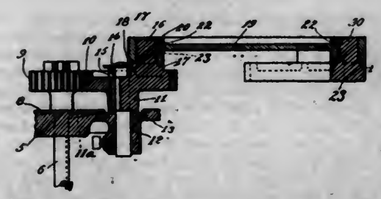
1. The combination, with the shaft of an internal combustion engine, and a combined fan pulley and clutch member mounted thereon, of a starting motor, and transmission means for connecting said starting motor with the engine shaft, said transmission means including a shaft having a driving connection with the motor armature, a sprocket loosely mounted thereon and movable longitudinally thereof, a second sprocket connected by a drive chain to the first sprocket and provided with clutch means, and movable to cooperate with said combined fan pulley and clutch member in connecting said motor to the engine shaft, and means connecting said first sprocket to its shaft and operative, when the motor drives, to move said sprocket along its shaft in the same direction as the clutching movement of the second sprocket.

1,455,718. HYDROPNEUMATIC DEVICE. NELSON M. DELONG, Washington, D. C. Filed Dec. 16, 1921. Serial No. 522,816. 17 Claims. (Cl. 230—32.)



8. A hydropneumatic device adapted to be actuated by the force of waves including a submergible chamber having a water entrance, an outlet in said chamber for the exit air displaced by said entering water, and means to collect said air, said chamber being secured to a frame hingedly connected to a rigidly mounted second frame, and means to prevent movement between the frames, said means including a rack and pinion, and a drag on said pinion, said drag comprising a balance wheel connected through a gear train to said pinion.

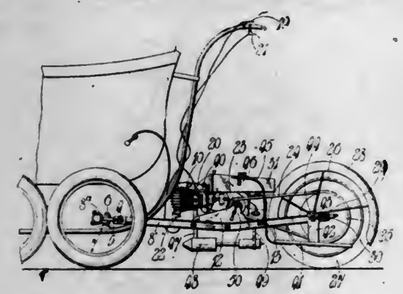
1,455,719. WASHING MACHINE. WILLIAM C. F. DIETZ, Cincinnati, Ohio, assignor to The Boss Washing Machine Company, Norwood, Ohio, a Corporation of Ohio. Filed May 19, 1922. Serial No. 562,210. 5 Claims. (Cl. 184—1.)



4. In combination, a gear, segment or the like, said gear having a depressed top, a wrist pin formed on said gear, a hub for said gear, an oil hole from the depressed face of said gear into the hub, a channel about the base of the pin, said channel having a port to the depressed surface of the gear, and means for oiling the pin, said means comprising a crank plate having a depressed surface, and a sleeve on said plate adapted to seat over the pin, and a port from the crank plate into said sleeve, for the purpose described.

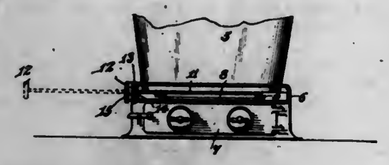
1,455,720. POWER PROPULSION OF ROAD VEHICLES. WILLIAM H. DUNKLEY, Birmingham, England. Filed Jan. 3, 1923. Serial No. 610,494. 1 Claim. (Cl. 180—11.)

A propulsion unit for road vehicles comprising a frame, an axle mounted on said frame near the rear end thereof, a road wheel mounted on the axle and arranged midway between the sides of the frame, a complete power unit mounted on said frame in advance of said axle, means at the front end of the frame for detachably connecting said unit to a vehicle so that said unit is supported at the rear end by said road wheel and at the front end by the vehicle to which the unit is connected,



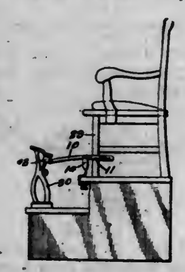
foot boards on each side of the frame abreast of said road wheel, brackets attached to said frame and supporting said foot poards, and shields attached to foot boards and to an element of said power unit.

1,455,721. GRATE ATTACHMENT FOR STOVES AND FURNACES. RAY O. DURST, Bradford, Ohio. Filed Oct. 5, 1921. Serial No. 505,504. 1 Claim. (Cl. 126—170.)



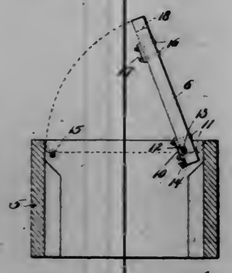
In combination with a stove a portion of the body of which is depressed and provided with a slot, a grate mounted in the stove and equipped with an arm concealed completely within the latter, a rod arranged through the slot in said stove body and engaged with said grate arm, a collar formed on said rod and engageable in the depression of the stove body, a locking plate mounted on the stove body and movable across the depression of the latter to prevent disengagement of the collar therefrom.

1,455,722. DRESS GUARD AND CHAIR HOLDER. ISRAEL J. EVIN, Altoona, Pa. Filed Oct. 1, 1920. Serial No. 414,109. 5 Claims. (Cl. 15—265.)



1. A clothing guard for shoe-blacking stands including the combination with a seat and a foot rest on the stand, of a support carried by the stand, a guard bar carried by the support and spanning the distance between the foot rest and the seat.

1,455,723. HYDRANT BOX AND LID. GEORGE M. HALL, deceased, late of Baird, Tex., by Alzira C. Hall, executrix, Baird, Tex. Filed Nov. 10, 1921. Serial No. 514,427. 2 Claims. (Cl. 137—13(12).)



1. A hydrant box of the class specified, comprising a lid or cover, a pivot rod for the lid or cover, and a stop rod disposed vertically below the pivot rod and serving to prevent the lid or cover being opened rearwardly beyond a predetermined distance and insure an automatic gravitating closure of the lid or cover when released.

1,455,724. PHOTOGRAPHIC PLATE AND PROCESS OF UTILIZING THE SAME. ALFRED P. HANTSCH, New Brunswick, N. J. Filed July 28, 1919. Serial No. 313,689. 3 Claims. (Cl. 95—5.)



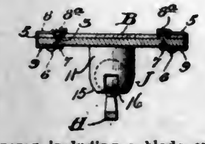
1. As a new article of manufacture, a photographic plate having a portion of its sensitized side exposed to light until no image can be photographed thereon and having imprinted on said portion certain characters by means other than light exposure, and having a portion which is sensitized for the taking of a photograph in juxtaposition to the first said portion.

1,455,725. SAFETY RAZOR. HARRY BUXTON HARTMAN, Scottdale, Pa. Filed Nov. 18, 1921. Serial No. 516,163. 7 Claims. (Cl. 30—12.)



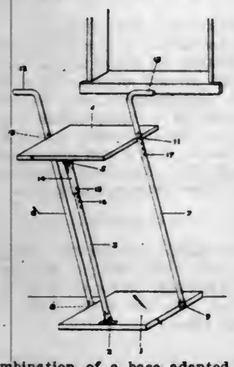
1. A safety razor including a blade carrier, a tubular housing on the carrier, a handle having a slotted end portion, a bolt pivoted in said slotted end portion and projecting into the housing, and a spring surrounding the shank of the bolt and exerting tension against a portion of the housing to yieldingly hold the same against the end of the handle.

1,455,726. SAFETY RAZOR. HARRY BUXTON HARTMAN, Scottdale, Pa. Filed May 3, 1922. Serial No. 558,165. 7 Claims. (Cl. 30—12.)



6. A safety razor including a blade carrier, a tubular socket member rigidly secured at one end to the under side of the blade carrier, and the opposite end thereof being provided with a slotted ball seat, a ball having a bearing on said seat, a spring confined between the carrier and the ball for frictionally holding the latter to its seat, and a handle fitted to the ball and adapted to register with said slot to temporarily lock the blade carrier in a set angular position to provide the desired shaving angle for the blade on the blade carrier.

1,455,727. LIFTING DEVICE. EDWARD JOSEPH HILL, Philadelphia, Pa. Filed Sept. 1, 1921. Serial No. 497,545. 5 Claims. (Cl. 214—130.)

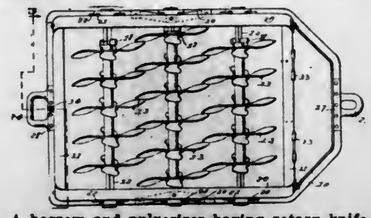


1. The combination of a base adapted to rest on the floor or the like, two tubes or rods pivoted by their lower ends to said base, one to each side; a third tube or rod pivoted by its lower end to another point of said base, which performs a function similar to the first named two tubes or rods, said third tube being provided with a series of holes along its length; a sleeve provided with a hole at its lower end to match holes in said third tube, said third tube being adapted to slip into said sleeve; a pin or bolt adapted to engage said hole in said sleeve, and one of said holes in said third tube and to lock said sleeve and said third tube together, a platform pivoted to the upper end of said sleeve and to intermediate points on the first named two tubes or rods and grips attached to said tubes or rods at their upper ends with which to raise said platform relative to said base through the medium of the three tubes or rods.

1,455,728. PROCESS FOR THE REMOVAL OF WATER FROM COLLOIDALLY-DISSOLVED SUBSTANCES SUCH AS CRUDE PEAT, COAL SLUDGE, AND THE LIKE. HEINZ HORST, Uerdingen-on-the-Rhine, Germany, assignor to Gesellschaft für Maschinelle Druckentwasserung mit beschränkter Haftung, Uerdingen-on-the-Rhine, Germany. Filed May 13, 1922. Serial No. 560,709. 7 Claims. (Cl. 44—27.)

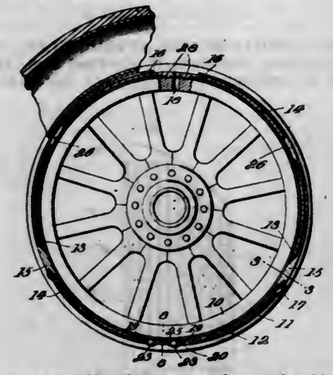
1. Process for the removal of water from colloidally dissolved substances, such as crude peat, coal sludge and the like by the admixture of additional substances of porous and non-porous character in finely divided condition the minimum fineness not to be under 0.1 mm. and in such quantity as to adsorb the colloidal substance present, whereby the water of colloidal substances is freed and may be readily expressed.

1,455,729. HARROW AND PULVERIZER. OSCAR INGMAN, Calumet, Mich. Filed Oct. 16, 1919. Serial No. 331,162. 6 Claims. (Cl. 55—11.)



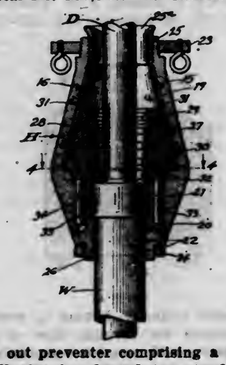
1. A harrow and pulverizer having rotary knife heads disposed in tandem relation and each consisting of a plurality of oppositely facing volute blades having the cutting edges of the blades of one head arranged in shearing relation with the cutting edges of the blades of the other head.

1,455,730. DEMOUNTABLE RIM. OSCAR L. INGRAM, Walla Walla, Wash. Filed Dec. 20, 1921. Serial No. 523,718. 3 Claims. (Cl. 301—28.)



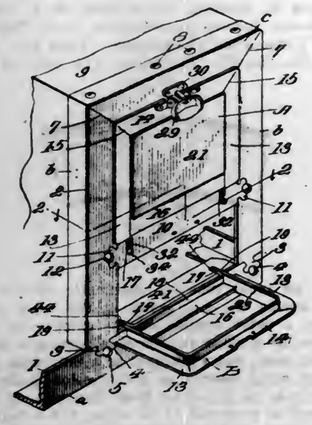
1. In a wheel, the combination of an inflatable tire, a wheel body having pockets, a rim having holes, wedges adapted to pass through the holes in the rim and enter the pockets of the wheel body to secure the rim to the wheel body by the pressure of the air in the tire upon the wedges.

1,455,731. AUTOMATIC BLOW-OUT PREVENTER. THOMAS J. KELLY, Los Angeles, Calif. Filed Jan. 21, 1922. Serial No. 530,026. 10 Claims. (Cl. 166—14.)



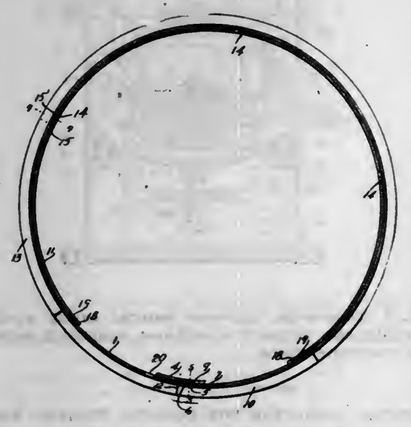
1. A blow out preventer comprising a housing through which a drill pipe is adapted to extend, means for anchoring the housing, and means operating to prevent ejection of the drill pipe upwardly from the housing.

1,455,732. STOVE-DOOR FRAME AND HINGE THEREFOR. FREDERIC G. NICOLAUS and JOSEPH ROY, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 21, 1921. Serial No. 523,890. 23 Claims. (Cl. 126—100.)



1. A door frame composed of an L-shaped strip bent to form a U-shaped frame, the end of the U closed by an additional L-shaped strip, one leg of the L strips extending inwardly, the inwardly extending legs of the frame longer than its other legs, and extending below the bottom of the frame, for the purpose described.

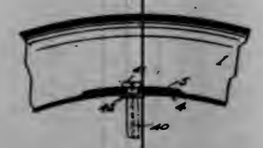
1,455,733. DEMOUNTABLE RIM. JOHN G. REED, Orwigsburg, Pa. Filed Nov. 30, 1921. Serial No. 518,869. 2 Claims. (Cl. 301—25.)



1. In a demountable rim, the combination with a split base ring provided with tire flanges, one of said flanges being cut away throughout the major portion of its length, of a detachable member secured to said ring, a supplemental flange carried thereby forming a continuation of said broken away flange, said detachable member comprising an arcuate strip secured to the inner face of the ring, and provided with openings, and securing de-

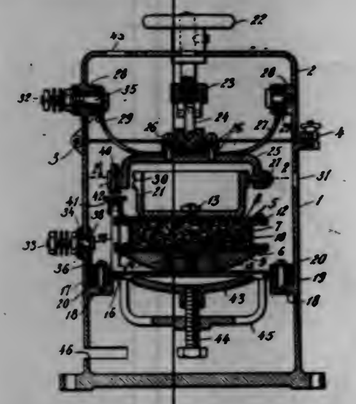
vices mounted to rotate in said ring, movable through said openings and selectively engageable with said arcuate member to secure the supplemental flange against transverse and circumferential movement.

1,455,734. INNER TUBE FOR AUTOMOBILE TIRES. WILLIAM E. ROBERTS, Little Falls, N. J., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 26, 1921. Serial No. 495,488. 11 Claims. (Cl. 152—13.)



10. In an inner tube for pneumatic tires, a tubular member having its only seams at the inner and outer periphery, a patch applied on the exterior of the completed tubular member and across a portion of said inner peripheral seam, and vulcanized as a unit with the tube, said patch being inserted in a depression in the wall of said article so as to extend flush therewith on its outer surface and be protected at its edges, and a valve nipple extending through the reinforced portion of the tube.

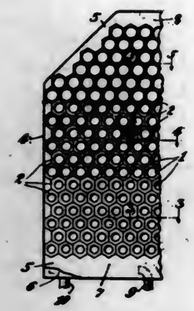
1,455,735. RHEOSTAT. FLORICEL A. ROJAS, New York, N. Y. Filed Mar. 23, 1922. Serial No. 546,149. 43 Claims. (Cl. 219—51.)



1. A compressible resistance material having a substantially zero temperature coefficient, comprising carbon and conductive silicon.

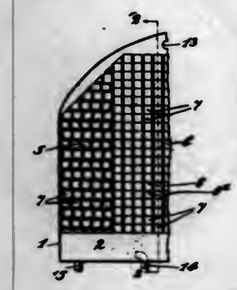
1,455,736. RADIATOR FOR COOLING FLUIDS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Sept. 13, 1921. Serial No. 500,381. 4 Claims. (Cl. 257—25.)

1. An up-flow condenser comprising an air cooled radiator of the automobile type having upper and lower chambers; means for discharging boiling water or steam into said lower chamber and withdrawing water therefrom; and an intermediate "core" or "honeycomb" embodying a multiplicity of transverse passages for flow of the cooling air, the walls defining said passages being spaced apart to afford interspaces for flow of fluid medium to be cooled therein, said air passages at different levels being of progressively larger flow section from bottom to top



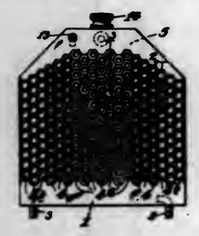
of the radiator and the interstices for up-flow of steam being of progressively less flow section from bottom to top of the radiator.

1,455,737. RADIATOR FOR AUTOMOBILES. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Sept. 13, 1921. Serial No. 500,382. 5 Claims. (Cl. 257—130.)



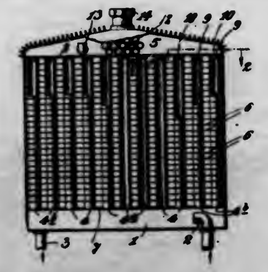
1. An air cooled radiator having low resistance flow paths for the cooling fluid over the central portions of the area of the honeycomb and higher individual flow resistance for each of the paths at the side portions of said area.

1,455,738. RADIATOR FOR COOLING FLUIDS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Dec. 6, 1921. Serial No. 520,209. 9 Claims. (Cl. 257—25.)



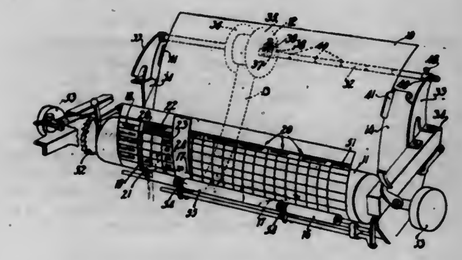
1. An air cooled radiator having a multiplicity of front-to-rear passages for through flow of the cooling air, the walls defining said passages being spaced apart to afford interspaces for flow of fluid medium to be cooled therein, said air passages being of larger flow section for the sides than for the central portions of the radiator.

1,455,739. RADIATOR FOR COOLING FLUIDS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Dec. 6, 1921. Serial No. 520,210. 17 Claims. (Cl. 257—125.)



1. A radiator embodying separate interior passages for up-flow of steam or vapor to be condensed; means including a cross communication between the lower portion of said passages for up-flow supply of steam or vapor to said passages, some of the flow paths normally having greater cooling capacity than others; portions of the flow section which have less condensing capacity being arranged to have less flow capacity than those having greater condensing capacity.

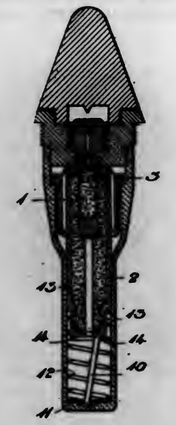
1,455,740. LEDGER SHEET. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 20, 1921. Serial No. 478,799. 2 Claims. (Cl. 281—5.)



1. The combination with a "Boston" ledger-sheet having day columns, each including subsidiary columns for transactions and daily balances, of means to enable the use of said sheet in a combined typewriting and computing machine in which computation of a transaction for any day involves the typing of the previous balance and the running of the same into the register, without the provision on the ledger-sheet of a separate "pick-up" column for each day in which to type the previous balances, said means comprising a temporary pick-up strip of suitable width, usable for each of a plurality of days, whereby, in picking up a previous balance preparatory to entering a debit or credit item for the day, the previous balance may be typed on said temporary "pick-up" strip placed in a suitable position overlying said ledger-sheet.

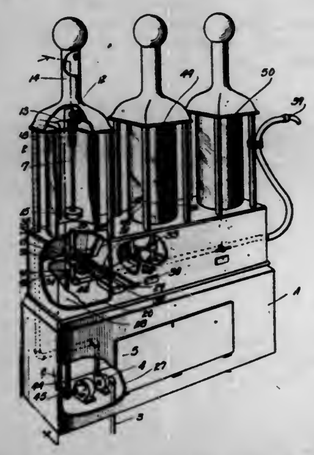
1,455,741. FUSE. ERNST JOHAN TORSTEN WENNERSTRÖM, Bofors, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, a Limited Company. Filed June 9, 1922. Serial No. 566,927. 2 Claims. (Cl. 102—39.)

1. A fuse, comprising a pair of firing members one movable relatively to the other for exploding a charge, said members initially occupying a safety position relative to each other, means releasable under the force of intertia for bringing said members into firing position, and an axially extending bolt housed within one of said members when in safety position, said bolt being adapted



to be withdrawn from said member and abut the rear end thereof when the members are in firing position thereby to prevent the return of the members to safety position.

1,455,742. LIQUID-VENDING MACHINE. FRANK C. BATES, Kansas City, Mo. Filed Nov. 25, 1921. Serial No. 517,448. 4 Claims. (Cl. 221—100.)

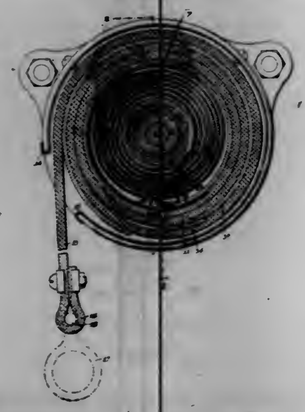


1. A fluid dispensing device comprising a reservoir, means for introducing fluid into the reservoir, a discharge pipe leading from the bottom of the reservoir, a valve in the pipe having a stem provided with a pinion, a spring-retractible rack bar engageable with said pinion, means for operating the rack bar in opposition to the spring, a pawl to normally hold the rack in extended position, and means for moving the pawl out of engagement with the rack.

1,455,743. SHOCK ABSORBER. DENNIS B. D. BLAKE, Quincy, Ill. Filed Feb. 9, 1921. Serial No. 443,606. 3 Claims. (Cl. 264—10.)

1. A shock absorber comprising a casing adapted to be applied to the body of an automobile, a coiled band within said casing, one end of said band adapted to be attached to the chassis of the automobile, resilient means

within the casing and connected to said band to apply constant tension thereto as the body and the chassis move relative to each other, and a metallic friction strip disposed between and along adjacent convolutions of said



band, said strip fastened at one end rigidly to said casing, the other end of said strip being free whereby friction is produced between the strip and the convolutions of the band when the band moves in one direction with respect to the casing.

1,455,744. INSULATING TAPE. HARRY I. DIAMOND, Atlanta, Ga. Filed Sept. 26, 1921. Serial No. 503,415. 6 Claims. (Cl. 154—43.)



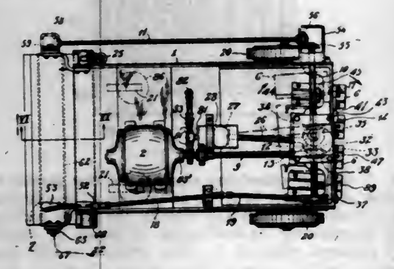
4. A tape having as practically inseparable constituent layers a fabric strip, a soft layer of material both highly adhesive, and highly insulating directly engaging one face of the strip, and a relatively hard, less adhesive insulating layer directly engaging the opposite face of said strip, and a tough, pliable layer slightly adherent to one of the faces; said adhesive layers filling the interstices of the fabric and engaging each other and with the fabric strip forming a unitary ribbon-like solid free from void spaces.

1,455,745. DIAPHRAGM FOR DICTAPHONES, ETC. HENRY C EGERTON, Ridgewood, N. J. Filed May 9, 1919. Serial No. 296,016. 11 Claims. (Cl. 181—32.)



10. The diaphragm for acoustic instruments formed of fabric carrying cementing material, said diaphragm having a relatively flexible edge portion and a substantially projecting conoidal stiffened vibrating portion and a stylus adhesively secured to said diaphragm adjacent the tip of said vibrating portion of the diaphragm.

1,455,746. SCRUBBING MACHINE. QUINTO FAUSTINI, Cleveland, Ohio. Filed Jan. 26, 1921. Serial No. 440,076. 10 Claims. (Cl. 15—52.)

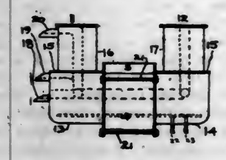


1. A scrubbing machine of the character described, comprising a main frame provided with wheels; a motor mounted therein; a longitudinal driving shaft connected with said motor; a transverse shaft supported at the front portion of the machine actuated by said driving shaft; an eccentric connected with said transverse shaft; an eccentric strap fitted to the eccentric; scrubbing devices; and means connected with said strap adapted to actuate said scrubbing devices in unison.

1,455,747. ELECTRIC PROCESS OF CONTINUOUSLY HEATING METAL. ALBERT E. GREENE, Seattle, Wash., and WILLIAM B. RUNYAN, Dayton, Ohio. Filed Apr. 22, 1920. Serial No. 375,785. 2 Claims. (Cl. 204—64.)

2. The process of treating metal in an electric furnace which consists in forming a secondary circuit of molten metal around a magnetic core, inducing current in said secondary circuit by means of said core, and causing the metal to flow continuously into said circuit and out at a different point heating the metal meantime.

1,455,748. ELECTRIC INDUCTION FURNACE. ALBERT E. GREENE, Seattle, Wash. Filed Feb. 24, 1920. Serial No. 360,934. 19 Claims. (Cl. 204—64.)

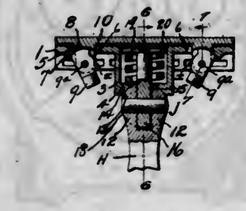


1. An electric induction furnace comprising a primary winding, an endless channel in refractory material to contain molten metal and form the secondary circuit of the induction furnace, an auxiliary channel leading down into said first named channel for pouring molten metal into said endless channel, and another auxiliary channel in refractory material leading upwardly from said endless channel at another point thereof for the exit of metal, whereby an increased head of metal may be maintained on the metal in the endless channel while heating the metal therein.

1,455,749. COTTON BALE AND MATERIAL AND METHOD FOR RENDERING THE SAME PROOF AGAINST FIRE AND COUNTRY DAMAGE. HENRY V. HALEY, Oklahoma, Okla., assignor to International Cotton Protecting Company, Dover, Del., a Corporation of Delaware. Filed Dec. 4, 1920. Serial No. 428,279. 13 Claims. (Cl. 23—5.)

11. A paste for producing a solution for superficially and permanently impregnating cotton bales comprising 66⅔ per cent of boric acid containing a trace of sulfuric acid, 0.5 per cent of zinc and stannous sulfates and water.

1,455,750. SAFETY RAZOR. HARRY BUXTON HARTMAN, Scottdale, Pa. Filed Dec. 13, 1921. Serial No. 522,134. 7 Claims. (Cl. 30—12.)



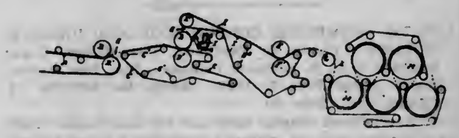
1. A safety razor including a blade carrier having openings, a blade clamping member, jointed cam elements projecting from and carried by the blade clamp and adapted to enter said openings in the carrier, and the ends of said cam elements being adapted to be shifted to engage with the carrier to lock the clamp thereto.

1,455,751. SAFETY RAZOR. HARRY BUXTON HARTMAN, Scottdale, Pa. Filed July 6, 1922. Serial No. 573,120. 6 Claims. (Cl. 30—12.)



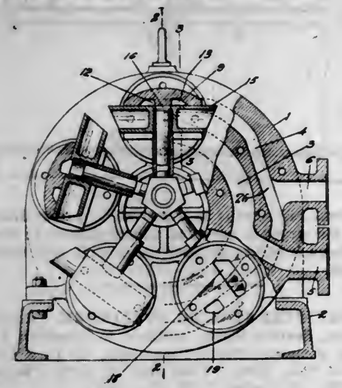
1. A safety razor including a blade carrier and a handle and a spring tensioned universal joint connecting the same, said joint comprising a socket member, means for connecting the socket member to the blade carrier whereby the latter may have a relatively rotational movement on the socket member, and a ball carried by the handle and seated within the socket.

1,455,752. PROCESS OF MANUFACTURING WATER-MARKED PAPER. WILLIAM S. LUCEY, Erie, Pa., assignor to Hammermill Paper Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 23, 1921. Serial No. 479,897. 3 Claims. (Cl. 92—48.)



1. The improvement in the art of making watermarked paper, consisting in thinning out the paper web along the lines of a desired watermark by the displacement of fibers while the web is still wet and soft, but after it has passed the couch roll, and afterwards submitting the wet web to such pressure as will move part of the displaced fibers back into the depressions formed by the watermark before drying the same.

1,455,753. HYDRAULIC PUMP OR MOTOR. WALDEMAR F. MAYER, Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Nov. 12, 1919. Serial No. 337,421. 5 Claims. (Cl. 121—52.)



1. A fluid gear comprising cross-heads mounted for reciprocation and serving as valves, a cylinder removably connected to each cross-head, a plunger operative in each cylinder, and means for inducing a movement of the plungers to compel a valve serving movement of the cross-heads.

1,455,754. CLIP FOR FASTENING COVERS TO SEAT FRAMES AND THE LIKE. CHARLES P. TRIMBLE, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1922. Serial No. 586,223. 5 Claims. (Cl. 155—180.)

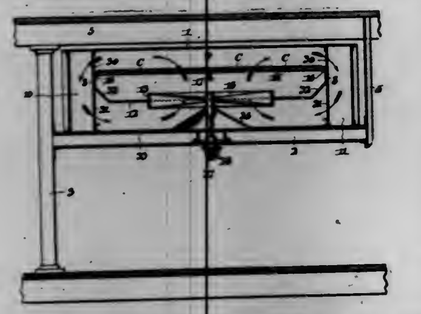


1. A clip for fastening covers to seat frames and the like comprising a sheet metal member having near its extremities oppositely disposed imperforate offset portions and having a substantially centrally located protuberance, whereby when the ends of the clip are bent toward each other the protuberance formed by one offset portion will register with the recess formed by the other and the centrally located protuberance will extend outwardly from the face of the clip.

1,455,755. CARPET-DRYING MACHINE. THOMAS ALLSOP and WALTER W. SINSON, Philadelphia, Pa., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1919. Serial No. 315,123. 10 Claims. (Cl. 34—48.)

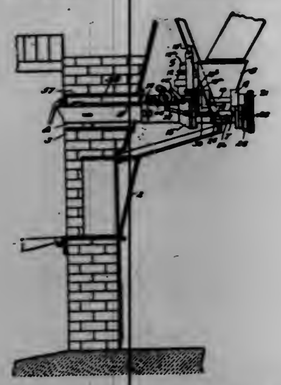
9. A carpet drying machine comprising an enclosure divided by transverse partitions into a series of sequential chambers; means for progressing the carpet through the

machine; a group of fans for each chamber mounted to rotate about vertical axes and disposed at intervals in said chamber, said fans being adapted to circulate the air over lateral courses therein; and means for driving



the several fan groups in relatively opposite directions, so that the carpet is subjected to impingement in alternate reversals as it passes successively through said sequential chambers.

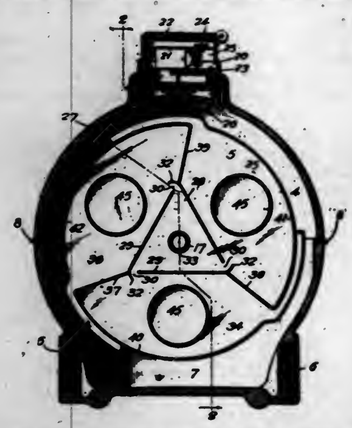
1,455,756. FUEL-STOKING STRUCTURE. EUGENE L. BARNES, Seattle, Wash., assignor to American District Steam Company, North Tonawanda, N. Y., a Corporation of New York. Filed Apr. 7, 1919. Serial No. 287,998. 23 Claims. (Cl. 110—105.)



1. An automatic fuel-stoking structure including a hopper, a conduit member communicating therewith and provided with a fuel-receiving chamber, a conveyor for carrying fuel from the hopper to the chamber, a blast-device communicating with the chamber, a fuel-distributor juxtaposed to the conduit member, and mechanism for operating it in timed relation to the action of the conveyor, for effecting a discharge and distribution of fuel from the chamber to progressively varying positions outside of the same.

1,455,757. LIQUID-MEASURING STRUCTURE. EUGENE L. BARNES, Buffalo, N. Y., assignor to American District Steam Company, North Tonawanda, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,607. 22 Claims. (Cl. 73—37.)

1. A structure for metering water of condensation and the like, including a fluid-operated rotor device comprising a central liquid distributing compartment having a plurality of walls angularly arranged in relation to each other and arranged to be overbalanced and rotated by accumulating liquid, said compartment having a series of discharge openings adjacent the extremities of the walls; a series of liquid-receiving compartments disposed about the central compartment, of odd number, and each having one of its walls formed by the angular wall of the central compartment and having, also, an outside



wall and angular inside walls; a baffle formed on each of the angular walls of the central compartment and extending into the adjacent compartment to provide a liquid-receiver; means forming liquid-discharging channels extending out of the receiving-compartments; and a liquid-inlet extending into the central compartment.

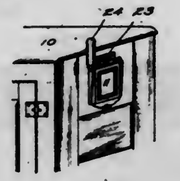
1,455,758. TURNBUTTON FASTENER. DAVID BOURQUE, Amesbury, Mass., assignor to G. W. J. Murphy Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Apr. 13, 1921. Serial No. 460,862. 2 Claims. (Cl. 24—221.)



1. A turnbutton fastener comprising a sheet metal base having an aperture therein surrounded by an inwardly extending flange, a head, a spring in the head and a member connected to the spring, extending through the aperture and having a bearing on the end of the flange.

1,455,759. COMBINED COUPON-BOOK AND ICE-PICK HOLDER. CLAUS E. ERICKSON, Des Moines, Iowa, assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Filed June 5, 1922. Serial No. 566,070. 2 Claims. (Cl. 248—20.)

1. A combined coupon book and ice pick holder made of a single sheet of material comprising a main body portion having walls formed on its sides at substantially right angles to the body portion for forming a coupon book holder, the free edge of the side walls being bent so that each causes to be formed a conical pocket adjacent to the side of the coupon book pocket for receiving an ice pick, tabs formed from the material of said conical pockets and arranged flush with the back side thereof, said tabs being provided with openings for receiving sup-



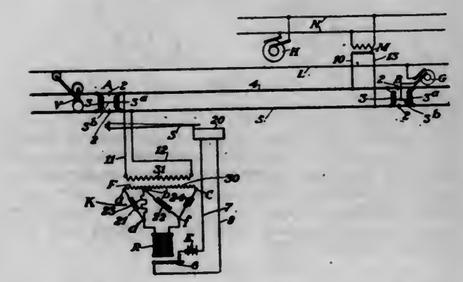
porting members and a tab formed near the lower end of the body portion midway between its sides and provided with an opening for receiving a supporting member.

1,455,760. INSULATING HANDLE FOR SAUCEPANS OR OTHER KITCHEN UTENSILS. PIERRE ARMENGAUD, Courbevoie, France. Filed Feb. 3, 1921. Serial No. 442,144. 3 Claims. (Cl. 16—116.)



1. An insulating handle for saucepans or other kitchen utensils, comprising a metal shank having an opening near its free end, an insulating sleeve, and means engaging said opening for locking the insulating sleeve relatively to the metal shank.

1,455,761. RAILWAY SIGNALING. JOHN S. HOLLIDAY, New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed July 12, 1916, Serial No. 108,770. Divided and this application filed Oct. 11, 1920. Serial No. 416,263. 9 Claims. (Cl. 246—37.)

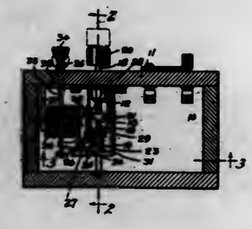


4. In combination, the track rails of a railway in which signaling current and propulsion current differing in frequency may flow at times, a current carrying device receiving energy from said rails, two current delivery terminals, means interposed between said device and said terminals for causing both terminals to be at substantially the same potential for the propulsion current but not for the signaling current, a relay connected with said terminals, and a signal controlled by said relay.

1,455,762. PROCESS OF RECOVERING CORK AND OTHER PRODUCTS FROM BARK. GUY C. HOWARD, Seattle, Wash. Filed Nov. 10, 1921, Serial No. 514,209. Renewed Feb. 3, 1923. 3 Claims. (Cl. 83—75.)

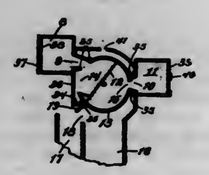
1. A process of treating bark containing cork, consisting in crushing the bar, drying the bark, subjecting the dry, crushed bark to repeated grinding and screening operations until the adhering fibrous matter is removed.

1,455,763. SWITCH. GEORGE C. WERNER, Brooklyn, N. Y. Filed Dec. 10, 1920. Serial No. 429,670. 2 Claims. (Cl. 200—106.)



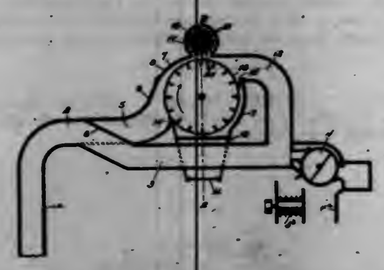
2. A switch comprising two pairs of contact elements, common circuit closing members manually shiftable to engage and bridge one pair of elements, a pivoted latch to engage with the member for retaining it in engagement with said pair of contacts, electromagnetic means for releasing the latch, means for moving the circuit closing member to normal position in contact with the other pair of contact elements, and a pivoted, manually operated lever normally disposed adjacent the latch member, said lever being independent of the electromagnetic means and adapted when operated to attract the latch member, said lever providing separate means whereby the latch may be released independently of the action of the electromagnetic means.

1,455,764. PNEUMATIC ELEVATOR FOR ELEVATING SEED COTTON FOR GINS. CHARLES ROBERT WOOD, Memphis, Tenn., assignor of one-fourth to W. E. Moss and one-fourth to B. C. Goodrich, both of Memphis, Tenn. Filed May 13, 1919. Serial No. 296,851. 14 Claims. (Cl. 19—73.)



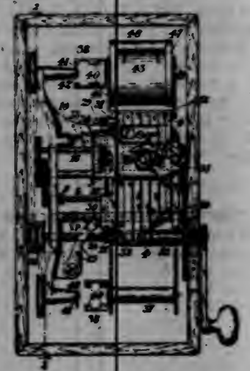
2. A pneumatic elevator for cotton gins, comprising a tube for elevating the cotton, a suction tube, means for creating a suction therein, a valve interposed between the elevating tube and suction tube to alternately establish and close draft communication therethrough and receive the cotton from the elevating tube, a delivery chute into which the valve discharges its collected cotton, means for automatically removing the surplus cotton as deposited when the chute is filled, and suction means for subsequently re-introducing the overflow cotton into the elevator.

1,455,765. COTTON CLEANER AND BOLL CRUSHER. CHARLES ROBERT WOOD, Memphis, Tenn., assignor of one-fourth to W. E. Moss and one-fourth to B. C. Goodrich, both of Memphis, Tenn. Filed Apr. 6, 1921. Serial No. 459,034. 10 Claims. (Cl. 19—38.)



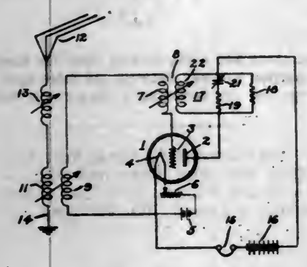
1. Cotton cleaning apparatus comprising a casing, an inlet duct communicating with the casing at one side thereof, an outlet duct communicating with the casing at the opposite side and at the top thereof, a screen drum journaled in the casing, a hood mounted upon the casing and a breaker member journaled for rotation in the hood.

1,455,766. CINEMATOGRAPH APPARATUS. FREDERICK WILLIAM PORTASS, Sheffield, England, assignor of one-third to Charles Portass and one-third to Stanley Moore Portass, both of Sheffield, England. Filed Jan. 6, 1920. Serial No. 349,701. 14 Claims. (Cl. 88—16.)



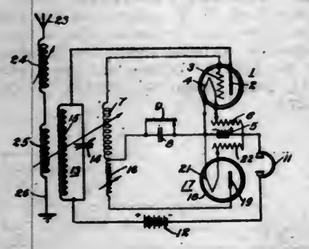
1. In cinematograph apparatus the combination of a frame, a laterally movable film carrier mounted thereon, means for moving it laterally by intermittent steps, means for rotatably mounting a film on the carrier, claws slidably mounted on the carrier for feeding the film longitudinally, a crank shaft supported on the film carrier reciprocating the film-moving claws, a cam shaft on the main frame, a cam thereon operating to protrude the claws through slots in the film carrier during their travel in one direction, means for withdrawing the claws from the slots and means operated by the lateral movement of the film carrier for reversing the film feed by altering the time of cam operation in relation to the period of claw reciprocation, substantially as specified.

1,455,767. WIRELESS RECEIVING SYSTEM. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1921. Serial No. 526,132. 21 Claims. (Cl. 250—20.)



1. In an electrical system, a regenerative feed-back system adapted to generate continuous oscillations upon an unbalancing of the same and thermally-responsive means associated therewith for causing said system to oscillate intermittently.

1,455,768. WIRELESS RECEIVING SYSTEM. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1922. Serial No. 530,615. 19 Claims. (Cl. 250—20.)



1. An electrical system having a high negative damping effect tending to cause said system to function as an oscillation generator, means tending to periodically introduce a blocking effect, means associated with said system carrying currents to be detected and means for modulating said blocking effect in accordance with the intensity of said currents.

Patents Nos. 1,455,769 to 1,456,495.

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Designs	44—No.	62,389 to No.	62,432, inclusive.
Patents	727—No.	1,455,769 to No.	1,456,495, inclusive.
Total	1064		

Amendment to Trade-Mark Rules.

(ORDER No. 2,815.)

U. S. PATENT OFFICE, *Washington, May 5, 1923.*

Acting under the provisions of section 26 of the act approved February 20, 1905, the rules of the Patent Office governing the registration of trade-marks are amended as follows:

Rule 28, cancel "or for renewal of registration of a trade-mark," lines 1 and 2, and at the end of the rule add: *Such an applicant for renewal of a trade-mark must file such a designation in writing.*

Rule 59, in each of lines 3 and 4, cancel "or registrant."

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Apr. 27, 1923.*

James P. Williams, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Paragon Electric Company, 329 East Fifth Street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 31, 1899, No. 32,456, to James P. Williams, 39 and 41 Cortlandt Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Williams at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Williams, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 28, 1923.*

The Avery Stamping Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Baldwin Tool Works, Parkersburg, W. Va., for registration of a trade-mark and trade-mark registered January 23, 1906, No. 49,168, to The Avery Stamping Company, corner of Coe and Hamilton Streets, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The Avery Stamping Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Avery Stamping Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 26, 1923.*

Mary A. Morgan, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Windsor Soap Co., Inc., 963 William Street, Buffalo, N. Y., and The Van Camp Packing Company, Inc. of Lemcke Annex Building, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered January 22, 1901, No. 35,817, to Mary A. Morgan, 1330 Dorchester Avenue, Boston, Mass., and a notice of such declaration sent by registered mail to said Morgan at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Morgan, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 30, 1923.*

Haight Fruit Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Llewellyn A. Banks, of 108 West Second Street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 14, 1896, No. 27,647, to Haight Fruit Co., of Redlands, Calif., and the Office having been unable to obtain service on said Haight Fruit Co., notice is hereby given that unless said Haight Fruit Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business May 11, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 73,673: Trade-Mark Division, 3,962. Oldest new case, May 12, 1922; oldest amended, May 16, 1922. The dates given are 1922 except where * indicates 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Aug. 11	July 11	1,191
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 10	July 25	1,564
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 17	May 19	1,767
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Heist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 5	*Jan. 26	1,418
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 22	July 8	1,358
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Sept. 7	*Jan. 8	1,613
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	July 28	Oct. 2	2,511
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Nov. 27	*Jan. 22	1,529
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Aug. 7	*Apr. 11	840
235	10. MITCHELL, T. H., Land Vehicles: Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	July 29	July 8	1,379
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Oct. 31	Nov. 7	1,032
322	12. PIERCE, P. P., Machine Elements	Sept. 22	Nov. 13	1,518
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	June 8	*Feb. 12	1,316
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 13	*Apr. 11	1,208
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 24	Aug. 30	2,011
112	16. BACKUS, C. D., Radiant Energy Telegraphy; Telephony	June 20	July 1	2,490
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	June 15	Nov. 6	1,474
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 27	June 2	2,034
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 11	*Jan. 30	764
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 5	Nov. 2	1,972
212	21. THURBER, W. L., Textiles: Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 19	Nov. 15	1,048
249	22. COLWELL, J. H., Ammunition: Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 18	Oct. 25	659
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	May 19	May 20	876
144	24. DURAS, C. O., Apparel: Apparel Apparatus; Garment Supporters; Sewing Machines	July 6	Sept. 27	1,477
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 25	*Jan. 15	443
105	26. HODGES, J. S., Electricity, Generation: Motive Power; Prime-Mover Dynamo Plants	June 20	July 25	929
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 19	June 21	2,166
225	28. BENSON, A. R., Internal-Combustion Engines	July 13	Sept. 11	1,546
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 28	Dec. 18	714
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 18	*Jan. 4	1,854
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 17	July 24	1,755
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 3	Sept. 23	1,294
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	July 27	July 20	1,627
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Mov. 1	Dec. 20	758
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 2	*Feb. 20	1,009
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Nov. 2	Oct. 10	1,916
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 3	July 6	1,929
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	June 22	June 21	1,585
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 22	July 1	1,520
209	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	July 19	Nov. 28	2,092
125	41. BROWN, J. I., Land Vehicles: Wheels and Axles; Resilient Tires and Wheels	Oct. 14	Sept. 16	952
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	June 27	July 3	1,755
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 15	Aug. 21	1,335
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	July 10	Dec. 14	1,273
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 21	Oct. 2	1,458
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Aug. 8	Sept. 13	1,458
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	July 1	Dec. 11	1,210
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	June 8	June 20	2,302
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	July 25	July 27	728
102	DESIGNS: C. O. MARKHAM (Acting)	July 20	Dec. 30	2,621
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, Jr. {Trade-Marks	*Jan. 27	*Mar. 28	3,904
	{Labels and Prints	*May 5	*May 8	48

DECISIONS IN PATENT AND TRADE-MARK CASES.

Supreme Court of the United States.

VANDENBURGH *v.* TRUSCON STEEL COMPANY.

Decided February 19, 1923.

1. REISSUE—DELAY—BROADENED CLAIMS.

Where the specification of an original patent left no doubt that the patentee used a limiting word in his claims deliberately and properly because his device, as he portrayed it, required the limitation, a reissue, with the limitation removed, granted nine years after the grant of the original patent as the result of an afterthought to catch makers who had not been advised in his specification that there was anything covering their structure in his formation was in the teeth of the admonitions of the Supreme Court in *Miller* v. *Brass Co.* (104 U. S.), and the broadened claims were held to be void.

2. CLAIMS—CONSTRUCTION OF—LIMITATIONS OBVIOUS ON CONSIDERATION OF SPECIFICATION AND DRAWINGS—INFRINGEMENT.

Where a claim calls for "a reinforcing bar" and the patentee relies on one figure of the patent, which is only a detail of another figure, which latter shows a single reinforcing bar, and the device shown in the first-named figure was intended to be a lighter construction of the same device as that shown in the second, and it is obvious from the description and source of the claims that the structure was intended to be free of all but one bar, and where the only figure showing two bars discloses a structure which is an application of the device to a different use, *Held* that the combination must be limited to a device with one bar or support and that the patentee can not properly say that to add another bar is only the work of a mechanic.

3. INVENTION—TRANSFER OF A DEVICE FROM ONE BRANCH OF INDUSTRY TO ANOTHER—ANALOGOUS USE.

Where the problem was only one of spacing firmly the convolutions of a metal spiral and the use of a kerf and spur for this purpose was old in the metal art, *Held* that the introduction of this expedient into the field of concrete reinforcing did not present a case in which the principle of *Potts* v. *Creager* (155 U. S., 597) applies.

CERTIORARI to the Circuit Court of Appeals for the Sixth Circuit.

STATEMENT OF THE CASE.

This was a bill in equity by Vandenburgh praying an injunction and accounting for the infringement of a patent granted him January 22, 1907, No. 841,741, and reissued to him August 15, 1916. Reissue No. 14,182. The patent is for a reinforcing bar to be used in concrete construction.

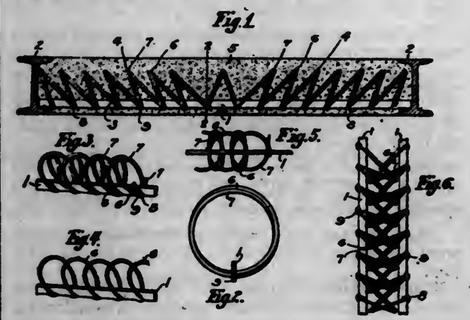
The patent since reissue has been the subject of litigation in the second, third and sixth circuits. In all the circuits, the first and second claims of the reissue have been held void because too broad and because secured nine years after the original issue for the purpose of covering intervening devices. In the second circuit, Judge Hough, sitting on the district court, found that claim 3 must be so narrowly construed that defendant's device did not infringe. The circuit court of appeals sustained the third claim and found infringement, reversing the district court's decree and sent the case back for assessment of profit swhich have been found to be about $15,000.00.

In the third circuit, Judge Orr found claim No. 3 invalid for lack of invention. The circuit court of appeals sustained the decree of dismissal by the district court, but on the ground of noninfringement.

In the sixth circuit Judge Westenhaver took the same view as Judge Orr and dismissed the bill. The circuit court of appeals affirmed the action of the district court on the ground that if valid, claim No. 3 must be so narrowly construed that the defendant did not infringe.

The drawings accompanying the specifications of the patent are the same in the reissue and appear below:

Fig. 1.



The specifications say:

The invention has for an object to provide a reinforcing-bar with one or more spirally-disposed coils secured to the bar so as to provide an extended area of contact adapted to resist strain longitudinally and laterally of the bar and to form a truss within the body of concrete or other plaster material which provides the maximum of supporting strength in the arch or surface to be formed.

Other and further objects and advantages of the invention will be hereinafter set forth, and the novel features thereof defined by the appended claims.

In the drawings, Figure 1 is a vertical section showing the bar applied to supporting girders or beams. Figure 2 is an enlarged vertical section on the line 2—2, Fig. 1. Fig. 3 is a detailed perspective of the primary and secondary coils shown in Fig. 1. Fig. 4 is a similar view of a modified form using one coil. Fig. 5 is a detailed plan of the form shown in Fig. 3, and Fig. 6 is an elevation of the two meshing coils used for girder and column construction.

* * * * * * *

The bar may be provided with a primary coil 6, extending in one direction, as shown in Fig. 4, which is sufficient in light construction; but when a heavier construction is to be used a secondary coil 7 is provided which extends in the opposite direction to the coil 6 and through the same so as to cross beneath the coil 6 at a point directly above the bar, thus providing a construction in which all lateral pull or strain of the coil is avoided, owing to the equalization thereof by the oppositely-extending coils and the tendency of the coils to move or flatten toward the face of the bar resisted. This preferred construction is shown in Figs. 1 and 3, and it is also desirable that both of the coils be deflected away from the center of the bar, as shown in Fig. 1, as the greatest supporting strain carried by the arch is at the center thereof, and this deflection therefore resists such strain and tends to draw the coils upward into a position at right angles to the bar.

As a preferred means of securing the coils to the bar I have shown a series of kerfs 8 in one face of the bar inclined away from the center of the bar toward the opposite ends thereof, and the coils are seated within these kerfs and held therein by means of the integral spurs 9, which are forced downward upon the coils when inserted and permanently retain them in position.

In Fig. 6 a modified application of the invention is shown where two of the bars are disposed parallel to each other, with their coils intermeshing; for use in column or girder construction, wherein such a construction provides the maximum of strength with the minimum of weight in the reinforcing material.

In the operation of the invention it will be seen that the bar supporting the coil resists any movement thereof longitudinally of the bar and provides the necessary strength upon which the truss structure formed by the coils is carried.

The first four claims of the original patent were as follows:

1. In a reinforcing bar, a spiral coil rigidly secured thereto at two points in each convolution thereof and extended beyond and free of said bar at the opposite side therefrom to the securing-point.

2. In a reinforcing-bar, a spiral coil rigidly secured thereto at two points in each convolution thereof and extended beyond and free of said bar at the opposite side therefrom to the securing-point, said coils being deflected in opposite directions from the center of the bar toward the ends thereof.

3. A reinforcing-bar provided upon one end with a series of kerfs each having an integral overlapping spur, and a coil disposed in said kerfs, each convolution thereof being retained beneath one of said spurs.

4. A reinforcing-bar provided upon one edge with a series of kerfs disposed diagonally to the length of the bar each having an overlapping integral spur projected toward the center of the bar, and a coil disposed in said kerfs and retained beneath said spurs.

The first and second claims of the reissued patent were as follows:

1. A concrete reinforcing consisting of a bar having a plurality of integral spurs, and a spiral coil permanently secured thereto by having the spurs bent down on the several coils, the coils extending beyond and free of the bar at the opposite side therefrom to the securing point.

2. A concrete reinforcing consisting of a bar having integral means to secure a coil thereto, and a spiral coil permanently secured to the bar in each convolution and extended beyond and free of said bar at the opposite side therefrom to the securing point.

The third and fifth claims of the reissued patent were the same as the third and fourth of the original.

The defendant makes and sells a collapsible spiral, or cylindrical helix used in strengthening concrete columns or pillars. It consists of a cylindrical spiral of steel wire fitted to two T bars or spacers. Each convolution of the spiral engages the leg or outside edge of the T spacers at regular intervals. The engagement is loose fitting so that this construction which is normally stove pipe shaped can be made flat for shipment by moving the metal rods or spacers longitudinally in opposite directions. The method by which the spiral is attached to the spacer bar is a rectangular notch in the edge of the T bar, with one or both corners peened or hammered down so as to retain and loosely hold the spiral. This is said to infringe the claims of plaintiff's reissued patent Nos. 1 and 2 and also claims 3 and 5 which were in the reissue as in the original patent, except that in claim 3 the word end was changed to edge to correct an obvious error.

Mr. Carlos P. Griffin for the petitioner.

Mr. W. F. Guthrie for the respondent.

Mr. Chief Justice TAFT, after stating the case as above, delivered the opinion of the Court.

The expansion and improvement of the art of reinforcing concrete began several decades ago. There were two different needs, one was for strengthening concrete beams and the other for strengthening concrete columns. The term reinforcing bar is usually applied in the art to a rod or bar used to reinforce a concrete beam against the tension longitudinal of the beam itself. The concrete itself has great power of resisting compression, but it has not tensile strength and its weakness manifests itself in cracking along the lower half of the beam. A steel bar placed below the middle of the beam furnishes the useful tensile resistance. But it was found that certain diagonal cracks developed in the beam toward the respective ends of the beam and it was sought to prevent these by minor auxiliary rods attached to the main reinforcing bar. This was the field which Vandenburgh entered and devised an arrangement, shown in Figure 1 of his drawings, of a reinforcing bar embedded in the lower part of the beam with transverse loops or spirals, part on one side of the center of the bar and part on the other and fitted rigidly into the bar so that those on each side leaned at an angle away from the center and in an opposite inclination from those on the other. In strong construction, these spiral loops were doubled by a second spiral which meshed with the first. Now, as the specifications show, this arrangement of the bar and opposing spirals was to apply the truss principle to the strengthening of the beam and to give it the tensional resistance along the lower part of the beam and against the diagonal tensions near the ends of the beam. No one can read the specifications and examine the drawings without perceiving that this was the gist of the Vandenburgh invention. Reference is made to the use of the plan for column construction, but the only use of it for that purpose is shown in Figure 6, which discloses two upright reinforcing bars with their spirals meshing but connected in no other way.

The truss formation was not especially adapted to the needs and strains of the concrete column. The history of that field in the art shows that one of the pioneers was a Frenchman named Considere, who some years before the plaintiff's patent had shown that the tendency of concrete in a column was to expand outwardly under the vertical pressure to which it was chiefly exposed and the best way of reinforcing columns was by pouring the liquid concrete into a hooping made of a series of independent hoops, or into a continuous helicoidal spiral or cylindrical helix of a steel wire or rod, of a stovepipe form. After him, column hooping became common in the art as the only practical method of column reinforcing and the convolutions of the spiral were spaced and supported by steel uprights with which they engaged in various ways. In one French patent, the convolutions were tied with steel wire to the spacers. It is the form of this engagement between the uprights and the spirals which is the crux of the present suit.

[1] The preferred form of Vandenburgh for the engagement between his reinforcing bar and the spiral loops of his truss arrangement is by a kerf or cut in the edge of bar inclined away from its center in which the coil rod is placed and held therein by an integral spur forced downward upon the coil when inserted, which permanently retains it in position. The defendant has a rectangular cut in the edge of the T spacer or upright and retains the spiral rod in it by peening or hammering down the edges of the cut so as to keep the rod from slipping out, but leaving play enough to permit the collapsing of the spiral and shipment in its collapsed form. Others had adopted a similar form of engagement. Observing this, Vandenburgh who had not used or exploited his original patent in any way, went back to the Patent Office and secured a reissue in which he was permitted to broaden his first and second claims with respect to the kerfs and spurs so as to change the word "rigidly" used in the original claim to "permanently." Having done this, he proceeded to sue in the second, third and sixth circuits persons using what he insisted were equivalents of his form of engagement in their column-hooping reinforcement of concrete columns. All the courts, and there are six of them, have held these changed claims of the reissued patent to be void and to give him no right to claim infringement in the collapsible feature of the column hooping. The original specifications leave no doubt that the patentee used the word "rigidly" deliberately and properly because his truss, as he portrayed it, required rigid connection between the spiral loops and the main reinforcing bar. His making his form of engagement loose was an afterthought to catch makers who had not been advised in his specifications that there was anything collapsible in his truss formation. The reissue as to the first two claims was in the teeth of the admonitions of this Court speaking through Mr. Justice Bradley in *Miller* v. *Brass Company* (104 U. S., 350; 21 O. G., 201). They are therefore void.

[2] Counsel for the patentee say now that the collapsible feature was only an incidental matter, and that what they now rely on is the combination under claims 3 and 5 of the reinforcing bar provided upon one edge with a series of kerfs each having an integral overlapping spur and a coil convolution thereof being beneath one of the spurs. We do not think the respondent has this combination. We think the patentee's combination must be limited to a spiral with one bar in the truss formation, or at least one in which the spiral is free at one end and has no second support or spacer such as respondent uses. Patentee relies on Fig. 4 of his drawing and says that to add another spacer or bar is only the work of a mechanic; but he can not properly say so because Fig. 4 is only a detail of Fig. 1 of the drawings and was intended to be a lighter construction of the same beam with the same truss combination as shown in Fig. 1. Moreover, it is perfectly obvious from the description and some of the claims that the spiral of Vandenburgh was intended to be free of all but the bar shown. This is made certain by Fig. 6 which is the only application of the device to column use shown and in that we have two bars standing upright each engaged with convolutions of a spiral, the loops of each spiral meshing with those of the other spiral but free of the other bar. It is clear to us that Vandenburgh having secured a patent for a truss form of reinforcement and finding it unworkable, for it never has been adopted in the trade or in any structure, is through reissue seeking to expand the paper combination he claims into a field in which it does not belong.

[3] But it is insisted that Vandenburgh was the first to introduce into the field of concrete reinforcing the kerf and integral spur to clamp the spiral rod, that this involved invention, and that claim No. 3 should be construed to secure him a reward for this. It may be true that in the field of reinforcing concrete the kerf and spur had not been used before as Vandenburgh used it, but the kerf and spur were old in the art in kindred fields. They were old in metal-working art. Exactly the equivalent is shown in sand screens for mixing the materials of concrete and in sustaining fence wires. It is difficult to differentiate the field of metal working from this art of reinforcing concrete because the problem was only one of spacing firmly the convolutions of the metal spiral and that was a well known device for such a need. We do not think the principle of *Potts* v. *Creager* (155 U. S., 597; 70 O. G., 494) applies in this case. More than this in the very field itself, there was a prior German patent of Kesserling & Moller showing the use of the kerf for spacing a spiral in reinforcing concrete. It does not seem to us that it involved real invention merely to add a spur or clamp or to peen or hammer down the edges of the kerf so as to fix the spiral rod firmly. We find therefore that claims 3 and 5 were without merit as involving invention and that the action of the circuit court of appeals should be affirmed.

CONCRETE STEEL CO. *v.* VANDENBURGH.

Decided February 19, 1923.

CERTIORARI to the Circuit Court of Appeals for the Second Circuit.

Mr. Thomas J. Johnston, *Mr. L. E. Varney*, and *Mr. W. F. Guthrie* for the petitioner.

Mr. Carlos P. Griffin, *Mr. O. Ellery Edwards*, and *Mr. Joseph W. Cox* for the respondent.

Mr. Chief Justice TAFT delivered the opinion of the Court.

This is a review of the decree of the Circuit Court of Appeals of the Second Circuit sustaining the validity of claim No. 3 of the Vandenburgh patent, just considered in the previous case of *Vandenburgh* v. *Truscon Steel Company*, and awarding $15,000 for profits to Vandenburgh for defendant's infringement. The two cases can not be distinguished. We must, therefore, reverse the decree of the Circuit Court of Appeals of the Second Circuit and direct the dismissal of the bill.

Reversed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

816,543, Erb & Powlison, Rotary disk plowing attachment, suits filed Feb. 21, 1923, U. S. D. C., D. Minn., Doc. E 595, *Disc Grader & Plow Co.* v. *The Austin-Western Road Machinery Co. and Others.* Same, Doc. E 596, *Disc Grader & Plow Co.* v. *Western Wheeled Scraper Co.*

837,017, C. Auer von Welsbach, Pysophoric alloy, suit filed Nov. 7, 1921, U. S. D. C., S. D. N. Y.,

Doc. E 22/250, *A. Harris and Others* v. *G. M. Schiff*. Consent decree adjudging infringement and granting perpetual injunction. Same, suit filed Jan. 20, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/55, *A. Harris and Others* v. *Keystone Merchandise Co.* Consent decree adjudging infringement and granting perpetual injunction. Same, suit filed Jan. 30, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/79, *A. Harris and Others* v. *L. Schiff and Others.* Order in favor of plaintiff dismissing suit without prejudice. Same, suit filed Feb. 1, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/81, *A. Harris and Others* v. *Park Row Novelty Corp. and Others.* Consent decree adjudging infringement and granting perpetual injunction.

1,180,159, I. Langmuir, Incandescent electric lamps, suits filed Nov. 22, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/280, *General Electric Co.* v. *Continental Lamp Works, Inc.* Order granting temporary injunction. Same, Doc. E 22/281, *General Electric Co.* v. *United Lamp Mfrs. Corp.* Order granting temporary injunction.

1,244,197, M. Gustin, Slippers, suit filed Dec. 14, 1920, U. S. D. C., S. D. N. Y., Doc. E 20/147, *M. Gustin* v. *G. H. & E. Freyberg.* Order discontinuing action.

1,284,756, R. O'Donnell, Baling presses, suit filed Mar. 7, 1923, U. S. D. C., E. D. Wis., Doc. 1302, *C. D. Galland-Henning Mfg. Co.* v. *Logemann Bros. Co.*

1,331,981, Cramer & Hodge, Hydrometers for regulating humidifying and heating systems, suit filed Apr. 14, 1922, U. S. C. C. Appeals, 1st Cir., Doc. 1550, *Parks-Cramer Co.* v. *American Moistening Co.* Decree of district court affirmed with costs to appellee.

1,336,091, O. T. Scharmann, Water-circulating pumps for combustion engines, suit filed Mar. 6, 1923, U. S. D. C., E. D. Wis., Doc. 1301, *C. D. Lang & Scharmann* v. *The Prime Mfg. Co. et al.*

1,347,095, A. B. Harrison, Waterproof fabric and process for producing the same, suit filed Sept. 29, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/178, *A. B. Harrison* v. *Gardiner & Lewis, Inc.* Consent order dismissing complaint.

1,392,539, C. M. Tipograph, Sweatbands, suits filed Oct. 13, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/197, *C. M. Tipograph* v. *Sweat Leather Bands Mfg. Co.* Consent decree adjudging infringement and granting injunction. Same, Doc. E 22/198, *C. M. Tipograph* v. *A. Gordon.* Consent decree adjudging infringement and granting perpetual injunction. Same, suits filed Dec. 22, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/374, *C. M. Tipograph and Others* v. *J. S. Rosen and Others* (*A. Rosen & Sons*). Consent decree adjudging infringement and granting perpetual injunction. Same, Doc. E 22/375, *C. M. Tipograph and Others* v. *B. Rapaport & Sons.* Consent decree adjudging infringement and granting perpetual injunction. Same, Doc. E 22/377, *C. M. Tipograph and Others* v. *A. J. Friedenberg* (*Hatters Supply Mfg. Co.*). Order that bill of complaint be taken pro confesso. Same, Doc. E 22/379, *C. M. Tipograph and Others* v. *American Hat Leather Co.* Order that bill of complaint be taken pro confesso.

1,438,440, H. F. Jackson, Advertising devices, suit filed Mar. 13, 1923, U. S. D. C., E. D. Wis., Doc. 1303, C. D., *L. R. Conwell* v. *Union Press Co.* Final decree for plaintiff by consent Mar. 13, 1923.

Des. 54,452, A. Reimherr, Handle for a spoon, fork, or similar article, suit filed Dec. 7, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/317, *Whiting Mfg. Co.* v. *Alvin Silver Co., Inc.* Decree dismissing bill.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) Krantz patent, 805,650, claims 1, 2, and 5, for panel board for electric fuses, *Held* valid and infringed. *Krantz Mfg. Co.* v. *Metropolitan Electric Mfg. Co.*, 286 Fed. Rep., 874.

(U. S. C. C. A. Pa.) Nicholson patent, 870,246, claims 2, 4, and 5, for making of seamless tubes, *Held* void for want of invention. *Shelby Steel Tube Co.* v. *Standard Seamless Tube Co.*, 286 Fed. Rep., 863.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,408,675, A. J. Wimberg, Vise stand, decided Apr. 14, 1923, claims 1, 2, and 3.

Pat. 1,418,477, M. Schenkel, Transformation of direct current, decided Apr. 3, 1923, claim 3.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 22, 1923.

[VOL. 310. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 115,398. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BACHARACH-RASIN CO., Baltimore, Md. Filed Jan. 24, 1919.



Particular description of goods.—Bicycles.
Claims use since Aug. 15, 1918.

Ser. No. 120,271. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE AMERICAN AUTOMOBILE ACCESSORIES COMPANY, Cincinnati, Ohio. Filed July 5, 1919.



Particular description of goods.—Inner Armor or Reliner Made with Plies of Fabric Held Together with Rubber for Automobile Tires.
Claims use since on or about Aug. 7, 1916.

Ser. No. 132,740. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HOLYOKE COMPANY, Holyoke, Mass. Filed May 21, 1920.



No claim is made to the word "Holyoke" apart from the trade-mark as shown.
Particular description of goods.—Covered and Uncovered Wires for Millinery and Personal Use and Straw Braids.
Claims use since about Nov. 1, 1910.

Ser. No. 135,438. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUENAVENTURA BALCELLS VALLBONA, doing business as Balcells, Barcelona, Spain. Filed July 26, 1920.



The wording appearing on the mark comprising "Marca Bulldog, Marca Registrada, Aceite Puro de Oliva, Extra Refinado, Barcelona, (España) Producto Español" is hereby disclaimed.
Particular description of goods.—Olive Oil.
Claims use since June, 1919.

Ser. No. 136,726. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAUCH & LANG, INC., Chicopee Falls, Mass. Filed Sept. 1, 1920. Under ten-year proviso.

Rauch & Lang

Particular description of goods.—Electrically-Propelled Road Vehicles, Not Including Trucks and Tractors.
Claims use since on or about Jan. 1, 1884.

Ser. No. 138,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LONDON CHOCOLATE COMPANY, LIMITED, Stratford, London, England. Filed Oct. 27, 1920.

UNA

Particular description of goods.—Chocolates.
Claims use since Mar. 29, 1919.

Ser. No. 139,369. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) PERKINS MARINE LAMP CORPORATION, New York and Brooklyn, N. Y. Filed Nov. 8, 1920.

PERKO

Particular description of goods.—Boat Lamps, Boat Lanterns, Automobile Lamps, Automobile Lanterns, Railroad Lamps, Railroad Lanterns, Lighthouse Lamps, Lighthouse Lanterns, All Burning Oil and Gas, and Also for Boat Funnels Each Thereof.
Claims use since Sept. 1, 1920.

Ser. No. 142,798. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MARVEL TRACTOR CO., Columbus, Ohio. Filed Jan. 26, 1921.



Particular description of goods.—Motor-Driven Farm Tractors.
Claims use since about Aug. 20, 1920.

Ser. No. 143,409. (CLASS 39. CLOTHING.) REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France. Filed Feb. 10, 1921.



Particular description of goods.—Leather Gloves.
Claims use since April, 1901.

Ser. No. 143,466. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAN L. WATSON, Georgiana, Ala. Filed Feb. 11, 1921.



The trade-mark constitutes picture of applicant.
Particular description of goods.—Medicine for the Relief of Kidney Troubles, for External and Internal Use for the Relief of Rheumatism, for Internal Use for Headaches, Indigestion, Dyspepsia, Constipation, Sour Stomach, Torpid Liver, and Convulsions, and as a Medicine or Tonic for Liver Troubles and as a Blood Purifier, and for Local Application to Burns and Sores.
Claims use since Feb. 1, 1916.

Ser. No. 145,379. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) W. WM. WINBERG, Wilmette, Ill. Filed Mar. 28, 1921.

SANO

Particular description of goods.—Silver Polish, Straw-Hat Cleaner, and Fabric Cleaner.
Claims use since 1900.

Ser. No. 145,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REED & BARTON CORPORATION, Taunton, Mass. Filed Apr. 4, 1921.

ALCO-FUEL CUBES

I hereby disclaim the words "Fuel Cubes" appearing on the drawing apart from the trade-mark as shown.
Particular description of goods.—Alcohol Fuel Cubes.
Claims use since Jan. 1, 1921.

Ser. No. 152,425. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INTERNATIONAL MOTOR COMPANY, New York, N. Y. Filed Aug. 31, 1921.

SHOCK INSULATED

Particular description of goods.—Motor Busses.
Claims use since July 20, 1921.

Ser. No. 153,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRENNAN CAKE CORPORATION, Chicago, Ill. Filed Sept. 21, 1921.



Particular description of goods.—Cakes, Cookies, and Fried Cakes.
Claims use since on or about Aug. 10, 1921.

Ser. No. 153,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCIS S. SMITH, doing business as C. B. Smith & Bro., Boston, Mass. Filed Sept. 28, 1921.

MORNING CALL



Particular description of goods.—Coffee.
Claims use since January, 1898.

Ser. No. 153,793. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN ORIENTAL CANDY MFG. CO., Richmond, Va. Filed Oct. 6, 1921.

DARLING
AMORCCO SWEETS

No claim is made to the word "Sweets" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since Aug. 1, 1921.

Ser. No. 154,335. (CLASS 39. CLOTHING.) STANDARD MANUFACTURING COMPANY, Erie, Pa. Filed Oct. 19, 1921.

Standard

No claim is made to the word "Standard" apart from the mark as shown.
Particular description of goods.—Trousers.
Claims use since May 1, 1916.

Ser. No. 154,524. (CLASS 39. CLOTHING.) E. MUNZER & Co., Chicago, Ill. Filed Oct. 24, 1921.

Cumfit

Particular description of goods.—Ladies' Fabric Underwear Bloomers.
Claims use since Sept. 25, 1921.

Ser. No. 154,677. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTMORELAND CANDY COMPANY, Richmond, Va. Filed Oct. 27, 1921.

PECONUT CRISP

No claim made to the word "Crisp" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since Jan. 22, 1902.

Ser. No. 154,760. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921.

HOP-SCOTCH

Trade-mark for hosiery "Hop-Scotch."
Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

Ser. No. 155,444. (CLASS 38. PRINTS AND PUBLICATIONS.) NEEDLECRAFT PUBLISHING COMPANY, Augusta, Me. Filed Nov. 16, 1921.

NEEDLECRAFT
MAGAZINE

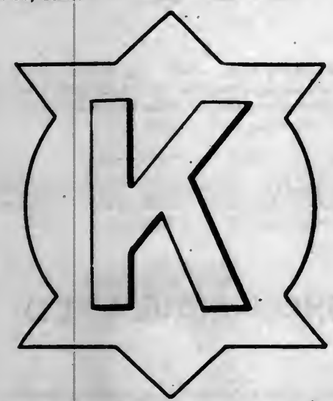
Particular description of goods.—Monthly Magazines.
Claims use since August, 1921.

Ser. No. 155,818. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FREDERICKSON BROTHERS, Cassadaga, N. Y. Filed Nov. 23, 1921. Under ten-year proviso.

"FENNER"

Particular description of goods.—Churns.
Claims use since 1871.

Ser. No. 156,088. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE KENNEDY VALVE MFG. CO., Elmira, N. Y. Filed Nov. 30, 1921.



Particular description of goods.—Fire Hydrants, Indicator Posts, Gate Valves, Check Valves, Globe Valves, Angle Valves, and Backwater Valves.
Claims use since on or about Jan. 1, 1916.

Ser. No. 156,089. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE KENNEDY VALVE MFG. CO., Elmira, N. Y. Filed Nov. 30, 1921.



Particular description of goods.—Fire Hydrants, Indicator Posts, Gate Valves, Check Valves, Globe Valves, Angle Valves, and Backwater Valves.
Claims use since Jan. 1, 1904.

Ser. No. 157,704. (CLASS 39. CLOTHING.) ISAAC WECHSLER, doing business as W. B. Suspender House, New York, N. Y. Filed Jan. 9, 1922.



No claim is made to the words "W. B. Suspender House, 652 B'way, N. Y. C.," "Will Not Rust," "Will Not Tear," "Extra Long," and "A New Pair if It Rips" apart from the mark shown on the drawing.
Particular description of goods.—Suspenders, Belts, and Garters.
Claims use since June 1, 1921.

Ser. No. 158,633. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Jan. 30, 1922.

TRIME

Particular description of goods.—Threads.
Claims use since Oct. 1, 1919.

Ser. No. 158,842. (CLASS 39. CLOTHING.) THE HILL AND LOPER COMPANY, INCORPORATED, Danbury, Conn. Filed Feb. 3, 1922.



The words "Felt" and "Sun Fast" are disclaimed apart from the mark shown on the drawing, without waiver, however, of common-law rights.
Particular description of goods.—Men's, Women's, and Children's Hats.
Claims use since on or about Jan. 9, 1922.

Ser. No. 158,936. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Feb. 6, 1922.

STANMORE

Particular description of goods.—Threads.
Claims use since September, 1919.

Ser. No. 159,351. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Feb. 15, 1922.



No claim is made to the representation of the card, the words "Philadelphia, U. S. A." or "Rust? Never!" apart from the mark shown on the drawing. Surrounding the rectangular-shaped central white field or figure is blue as shown by the shade lines.
Particular description of goods.—Hooks and Eyes, Snap Fasteners, and Safety Pins.
Claims use since Feb. 5, 1920.

Ser. No. 159,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSION CANDY COMPANY, Hollywood and Los Angeles, Calif. Filed Feb. 15, 1922.

Albert Sheetz

MISSION

Particular description of goods.—Candies.
Claims use since May 1, 1921.

Ser. No. 159,540. (CLASS 12. CONSTRUCTION MATERIALS.) STE. ANME. DU FIBROCIMENT ET DES REVETEMENTS ELO, Poissy, France. Filed Feb. 18, 1922.

ELO

The trade-mark consists of the word "Elo." A facsimile of said trade-mark as it has actually been used is shown in the accompanying drawing.
Particular description of goods.—Building Materials Composed of a Compound of Fiber and Cement.
Claims use since Oct. 9, 1918.

Ser. No. 160,218. (CLASS 31. FILTERS AND REFRIGERATORS.) VOGT BROTHERS MFG. CO., Louisville, Ky. Filed Mar. 4, 1922.

VOGT BROTHERS
POPULAR VOGT
REFRIGERATION

The words "Vogt Brothers Refrigeration" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Refrigerating Machinery and Refrigerators.
Claims use since Jan. 10, 1922.

Ser. No. 160,725. (CLASS 38. PRINTS AND PUBLICATIONS.) STEAM POWER PUBLISHING CORPORATION, Chicago, Ill. Filed Mar. 15, 1922.

STEAM
POWER

Particular description of goods.—Monthly Magazine Devoted to Matters Relating to the Generation and Utilization of Steam for Power Purposes.
Claims use since Feb. 15, 1922.

Ser. No. 161,375. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.

The Sun
(Registered)
CANTERBURY, N.Z.

No claim is made herein to the use of the words "Brand," "Canterbury, N. Z." and "Registered" apart from the mark shown.
Particular description of goods.—Oils for Preserving Leathers and Neat's-Foot Oil.
Claims use since July 30, 1896.

Ser. No. 161,767. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Apr. 5, 1922.

See that
hump?

Particular description of goods.—Hooks and Eyes, Snap Fasteners, Safety Pins, Hook and Eye Tape, and Toilet Pins.
Claims use since November, 1891.

Ser. No. 161,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MIDLAND BROKERAGE COMPANY, Minneapolis, Minn. Filed Apr. 5, 1922.

Choc Cone

The word "Cones" in itself or independently of its illustrated association is not herein claimed.
Particular description of goods.—Chocolate-Lined Ice-Cream Cones and Chocolate for Lining Ice-Cream Cones.
Claims use since Mar. 2, 1922.

Ser. No. 162,787. (CLASS 39. CLOTHING.) THE UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Apr. 22, 1922.

UTREE

Particular description of goods.—Knitted Wool, Silk, or Cotton, or Wool and Silk, or Cotton, or Silk and Cotton Outer Garments—viz, Coats, Dresses; Headwear—Namely, Men's Hats and Caps, Ladies' Bonnets, Hats, and Caps; Skirts, Gloves, Hosiery, Children's Overalls, and Bedroom Slippers; Also Garments Made of the Same Material—viz, One, Two, and Three Piece Underwear for Men, Women, and Children; Work, Negligee, and Dress Shirts, and Blouses.
Claims use since June 23, 1920.

Ser. No. 162,824. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NITA G. KNIGHT, Boundbrook, N. J. Filed Apr. 24, 1922.

KNIGHTS

KNIFTY

KNIBBLES

Particular description of goods.—Candy.
Claims use during latter part of year 1915.

Ser. No. 163,436. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALFRED DEGERBERG, doing business as Alfred Degerberg Co., Philadelphia, Pa. Filed May 6, 1922.

D. A. D.

The lining in the drawing represents the color red.
Particular description of goods.—Ink for Polishing Shoes.
Claims use since Feb. 21, 1922.

Ser. No. 163,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIRGINIA D. BENNETT, New York, N. Y. Filed May 17, 1922.

VIRGINIA HERON

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Apr. 26, 1922.

Ser. No. 163,966. (CLASS 39. CLOTHING.) A. C. BARROW & COMPANY, Lynchburg, Va. Filed May 17, 1922.

ABC

Particular description of goods.—Overalls, Work Shirts, Coats, Vests, and Pants for Men and Boys.
Claims use since Apr. 28, 1921.

Ser. No. 163,979. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed May 17, 1922.

CLINIC SPECIAL

No claim made to the word "Special" apart from the mark shown.
Particular description of goods.—Nail, Tooth, Hair, Cloth, and Flesh Brushes.
Claims use since Feb. 1, 1922.

Ser. No. 165,204. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. PLANTEN & SON, INC., Brooklyn, N. Y. Filed June 8, 1922.

RED MILL

Trade-mark consists of the words "Red Mill."
Particular description of goods.—Haarlem Oil in Capsules.
Claims use since May 1, 1922.

Ser. No. 165,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Los Angeles, Calif. Filed June 12, 1922.

NICO-GARDENDUST

Particular description of goods.—Insecticide.
Claims use since Apr. 20, 1920.

Ser. No. 165,661. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHARLES BOND COMPANY, Philadelphia, Pa. Filed June 19, 1922.

Bondaron

Particular description of goods.—Round Leather Belting and Flat Leather Belting.
Claims use since Sept. 10, 1920, on round leather belting; since about Apr. 1, 1922, on flat leather belting.

Ser. No. 165,976. (CLASS 15. OILS AND GREASES.) GEORGE W. FENIMORE, doing business as Fenimore Oil Co., Norristown, Pa. Filed June 23, 1922.

"FOCO"

Particular description of goods.—Lubricating Oils and Greases.
Claims use since June 1, 1922.

Ser. No. 166,655. (CLASS 39. CLOTHING.) DUGAN & HUDSON CO., Rochester, N. Y. Filed July 10, 1922. Under ten-year proviso.

IRON CLAD

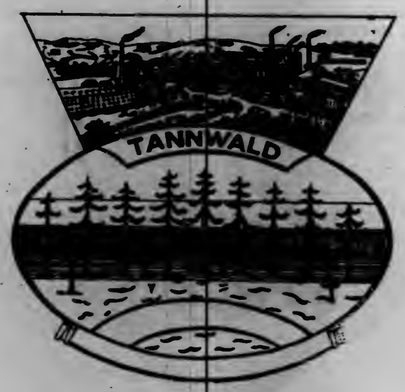
Particular description of goods.—Leather Boots and Shoes.
Claims use since March, 1879.

Ser. No. 166,848. (CLASS 39. CLOTHING.) JACOB OBER, doing business as Loeb Dress Co., New York, N. Y. Filed July 13, 1922.

Joliette

Particular description of goods.—Dresses for Girls, Juniors, and Misses.
Claims use since Feb. 1, 1920.

Ser. No. 167,082. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH S. HERRMANN, New York, N. Y. Filed July 19, 1922.



The mark as used includes an upper band of blue and a lower band of red, said bands constituting the background for the trees, as shown in the drawing.
Particular description of goods.—Tablecloths, Sheets, Pillowcases, Napkins, of Linen, Cotton, and Mixtures of Linen and Cotton.
Claims use since June 4, 1921.

Ser. No. 168,130. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STUART & EMERSON, Lyndonville, Vt. Filed Aug. 11, 1922.

KREAMY REAM

No claim is made to the English words "Creamy Cream" apart from the mark as shown.
Particular description of goods.—Ice Cream.
Claims use since 1918.

Ser. No. 168,416. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INTERNATIONAL MOTOR COMPANY, New York, N. Y. Filed Aug. 18, 1922.

SHOCK INSULATOR

Particular description of goods.—Cushioned Connections for Use in Vehicles, Particularly for a Deformable Block Made of Rubber or the Like in Which an End of a Vehicle Spring is Carried.
Claims use since about June 7, 1922.

Ser. No. 169,065. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MACK BATTERY COMPANY, Los Angeles, Calif. Filed Sept. 5, 1922.

MAC-DRY

Particular description of goods.—Storage Batteries and Storage-Battery Parts.
Claims use since June 1, 1921.

Ser. No. 169,116. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERT H. BEACH, doing business as Pyramid Products Co., Los Angeles, Calif. Filed Sept. 6, 1922.



Particular description of goods.—Soap.
Claims use since Oct. 25, 1920.

Ser. No. 169,146. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ATLANTIC LABORATORIES, Atlanta, Ga. Filed Sept. 7, 1922.



Particular description of goods.—Preparation Recommended for Use as a General Household Cleaner.
Claims use since June 13, 1922.

Ser. No. 169,213. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INTERNATIONAL MOTOR COMPANY, New York, N. Y. Filed Sept. 8, 1922.

SHOCK INSULATOR

Particular description of goods.—Metal Parts for Cushioned Connections in Vehicles, Particularly for a Metal Housing for Carrying a Deformable Block in Which an End of a Vehicle Spring is Carried.
Claims use since about July 10, 1922.

Ser. No. 169,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESTERN WHOLESALE DRUG CO., also doing business as The Sterling Laboratory, Los Angeles, Calif. Filed Sept. 9, 1922.

Sterling

Particular description of goods.—Camphorated White Liniment, Larkspur, Cedar Flakes, Sea Salt, Catarrh Balm, Chill Tonic, Antiseptic Cones, Analgesic Balm, Oil of Eucalyptus, Kidney Pills, Kidney and Bladder Medicine, Liver Pills, Mustard Balm, Eucalyptus Salve, Witch-Hazel Salve, Compound Cathartic Pills, Worm Sirup, Sirup of Figs, Citrate of Magnesia, Gonicide Capsules, Cherry Cough Sirup, Baby Cough Sirup, White Pine and Tar, Female Tonic, Liver Salts, System Tonic, Rheumatic Elixir, Cod-Liver Oil, Extract of Sarsaparilla, Poison-Oak Remedy, Pile Suppositories, Sore-Throat Gargle, Eucalyptus Liniment, Gall Salve, Mange Remedy, Prickly-Heat Powder, Foot Powder.
Claims use since Oct. 1, 1912.

Ser. No. 169,573. (CLASS 39. CLOTHING.) BROOKLYN HOSIERY MILLS, INC., Brooklyn, N. Y. Filed Sept. 18, 1922.

DRESY ANKEL

Particular description of goods.—Stockings.
Claims use since Jan. 15, 1922.

Ser. No. 169,645. (CLASS 38. PRINTS AND PUBLICATIONS.) PALMER PHOTOPLAY CORPORATION, Los Angeles, Calif. Filed Sept. 18, 1922.

PALMER PHOTOPLAY CORPORATION

Particular description of goods.—Prints and Publications—Namely, Books, Pamphlets, Brochures, Lectures, Exercises, Lessons, Instructions, Motion-Picture Scenarios, and Manuscripts in Either Printed or Photographic Form in any Manner Whatsoever Associated with the Course of Instruction or Service in the Art and Technique of Photoplay Writing, Motion-Picture Directing, Acting, and Cinematography.
Claims use since June 1, 1922.

Ser. No. 169,737. (CLASS 39. CLOTHING.) I. PACHNER & SON, INC., New York, N. Y. Filed Sept. 20, 1922.

KREKSIZE

Particular description of goods.—Articles of Men's Apparel—Namely, Adjustable Caps, Hats and Caps of All Kinds; Articles of Ladies' Apparel—Namely, Scarfs, Hats, Cloaks, Capes, Sweaters, Slip-Ons, and Vests.
Claims use since Aug. 1, 1921.

Ser. No. 169,895. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN G. FAMBACH, Cleveland, Ohio. Filed Sept. 25, 1922.

J. G. Fambach

The trade-mark is a facsimile of my signature.
Particular description of goods.—Medicinal Preparations for Nervousness, Falling Sickness, Fits, Indigestion, Inflammation of Stomach and Bowels, Dyspepsia, Cramps and Pains in Limbs and Body, Sore Throat, Neuralgia, Inflammatory Rheumatism, Rheumatic Pains, Pimples, Blackheads, Skin Eruptions, Sore Corns.
Claims use since Dec. 1, 1908.

Ser. No. 169,907. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LEANDER C. JONES, doing business as Chef Aluminum Co., Battle Creek, Mich. Filed Sept. 25, 1922.

CHEF ALUMINUM CO. Chef BATTLE CREEK, MICH., U.S.A.

In the trade-mark shown in the accompanying drawing "Battle Creek, Mich., U. S. A." being disclaimed apart from the mark shown.

Particular description of goods.—Aluminum Culinary Utensils—viz, Kettles, Kettle Covers, Casseroles, Frying Pans or Skillets, Percolaters, Pancake Griddles, Egg Poachers, Teakettles, Double Boilers, Pans, Basins, Dippers, Strainers, Colanders, Roasting and Baking Pans, Pie Plates, Cake Pans, Ladles, Skimmers, Gem or Muffin Pans, and Waffle Irons.
Claims use since June 15, 1921.

Ser. No. 169,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN W. SURBRUG, doing business as Surbrug Chocolate Corporation, New York, N. Y. Filed Sept. 26, 1922.

AT-TA BOY!

IT'S A KNOCK OUT

Particular description of goods.—Candy and Sugared Assorted Nuts.
Claims use since January, 1921.

Ser. No. 170,225. (CLASS 39. CLOTHING.) S. & V. COMPANY, INC., New York, N. Y. Filed Oct. 2, 1922.

VALUE BRAND

No claim to the exclusive use of the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Fabric Gloves.
Claims use since November, 1921.

Ser. No. 170,226. (CLASS 39. CLOTHING.) HARRY TRACHTENBERG, doing business as Arion Shirt Company, New York, N. Y. Filed Oct. 2, 1922.

ARION

Particular description of goods.—Men's Dress, Negligee, and Work Shirts.
Claims use since June, 1915.

Ser. No. 170,361. (CLASS 39. CLOTHING.) L. BAMBERGER & CO., Newark, N. J. Filed Oct. 5, 1922.

Cottage Frock

No rights to registration are claimed on the word "Frock," apart from the mark shown.
Particular description of goods.—Women's Dresses.
Claims use since February, 1922.

Ser. No. 170,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEROME KIEFFER JESTER, doing business as Continental Ampower Company, Atlanta, Ga. Filed Oct. 7, 1922.

AMPOWER BATTERY INSTANT CHARGE

No claim made to the words "Instant Battery Charge" except in association with the mark shown.
Particular description of goods.—Liquid Battery Charge.
Claims use since Sept. 2, 1922.

Ser. No. 170,574. (CLASS 39. CLOTHING.) CHARLES K. FOX, INC., Haverhill, Mass. Filed Oct. 11, 1922.

RAINBOW

Particular description of goods.—Boots and Shoes of Leather.
Claims use since Sept. 1, 1922.

Ser. No. 170,575. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHARLES K. FOX, INC., Haverhill, Mass. Filed Oct. 11, 1922.

RAINBOW

Particular description of goods.—Leather Intended for Use in Boots and Shoes.
Claims use since Sept. 1, 1922.

Ser. No. 170,626. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CREAM BALM COMPANY, Jersey City, N. J. Filed Oct. 12, 1922. Under ten-year proviso.

ELY'S CREAM BALM FOR COLD IN HEAD NASAL CATARRH

Particular description of goods.—Medicinal Compound for the Treatment of Catarrhal Diseases of the Head.
Claims use since 1880.

Ser. No. 170,760. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis. Filed Oct. 16, 1922.

BLUE PENNANT

Particular description of goods.—Casings and Tires, Hose and Tubings, Reliners, Inner Tubes, Inside Tire Sleeves, Belts and Belting, All Made Wholly or Partly of Rubber.
Claims use since January, 1916.

Ser. No. 170,775. (CLASS 39. CLOTHING.) LAZARUS, GOLDBERG & FRIEDMAN, INC., New York, N. Y. Filed Oct. 16, 1922.

Billy Best CLOTHES

No claim is made to the word "Clothes" apart from the mark shown on the drawing.

Particular description of goods.—Boys', Students', Young Men's, and Men's Suits, Knickerbockers, and Topcoats.

Claims use since Sept. 15, 1922.

Ser. No. 170,785. (CLASS 31. FILTERS AND REFRIGERATORS.) THE PHOENIX ICE MACHINE CO., Cleveland, Ohio. Filed Oct. 16, 1922.

PHOENIX

Particular description of goods.—Ice and Refrigerating Machinery, Ammonia Compressors, Ammonia Receivers, Ammonia Condensers, Pipe Coils, and Ammonia Fittings.

Claims use since January, 1920.

Ser. No. 171,103. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PORZELLANFABRIK PH. ROSENTHAL & Co., A. G., Berlin, Germany. Filed Oct. 23, 1922.

R. C.

Trade-mark consists of the letters "R. C." separated by crossed sticks, a crown being placed intermediate the overlapping ends of the sticks. The trade-mark is herewith claimed as applicant's own mark.

Particular description of goods.—China.

Claims use since Nov. 17, 1891.

Ser. No. 171,131. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LEWIS & HARRIS HANDWOVEN TWEED COMPANY LIMITED, Stornaway, Lewis Island, Scotland. Filed Oct. 24, 1922.

MACLOOM

Particular description of goods.—Cloths and Stuffs of Wool, Worsted, or Hair.

Claims use since July 20, 1920.

Ser. No. 171,138. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANIBAL SAMPEDRO, Mexico, Mexico. Filed Oct. 24, 1922.

PRIVILEGIADO 607 PARA EL CABELLO

No claim is made to the words "Privilegiado para el Cabello" apart from the mark as shown in the drawing.

Particular description of goods.—Perfumes and Hair Tonics.

Claims use since May, 1921.

Ser. No. 171,141. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. SILZ, INC., New York, N. Y. Filed Oct. 14, 1922.



Applicant claims as its trade-mark the design shown in the accompanying drawing. The lining merely represents shading. No claim is made to the words "Tasty, Wholesome, Nourishing, Convenient, Economical, Delicious, Plum Pudding, New York," nor to any of those appearing in the banner of the herald on the right side of the drawing.

Particular description of goods.—Canned Plum Pudding.

Claims use since May, 1922.

Ser. No. 171,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE DAVIDSON, Wick, Scotland. Filed Oct. 26, 1922.

BLUE

Particular description of goods.—Salted and Pickled Herrings.

Claims use since Sept. 28, 1921.

Ser. No. 171,207. (CLASS 12. CONSTRUCTION MATERIALS.) DELTA EXPORT LUMBER CORPORATION, Memphis, Tenn. Filed Oct. 26, 1922.

DELTA

Particular description of goods.—Lumber and Veneers.

Claims use since June 1, 1922.

Ser. No. 171,208. (CLASS 12. CONSTRUCTION MATERIALS.) DELTA EXPORT LUMBER CORPORATION, Memphis, Tenn. Filed Oct. 26, 1922.

DELTA

Particular description of goods.—Lumber and Veneers.

Claims use since June 1, 1922.

Ser. No. 171,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALPH C. GARRETT, doing business as Tricco Chemical Co., Detroit, Mich. Filed Oct. 27, 1922.

TRICCO

Particular description of goods.—Preparation for Use in the Treatment of Eczema.

Claims use since Oct. 1, 1922.

Ser. No. 171,286. (CLASS 37. PAPER AND STATIONERY.) THE SHELBY WAX PAPER COMPANY, Shelby, Ohio, assignor to The Crystal Waxing Company, Middletown, Ohio. Filed Oct. 27, 1922.



No claim is made for the descriptive words—to wit, "Take out one sheet at a time like this"—or for the illustration of the package of paper apart from the mark as shown.

Particular description of goods.—Sheets of Waxed Paper and Packages.

Claims use since Jan. 14, 1922.

Ser. No. 171,419. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE HART & HEGEMAN MFG. CO., Hartford, Conn. Filed Oct. 31, 1922.

SPOT-O'-LITE

Particular description of goods.—Luminous Pendants.

Claims use since Sept. 15, 1922.

Ser. No. 171,647. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MENOMINEE MOTOR TRUCK CO., Clintonville, Wis. Filed Nov. 6, 1922.

MENOMINEE MOTOR TRUCK CO. OF WIS. Hurryton CLINTONVILLE WIS. U.S.A.

No claim is made for the words "Clintonville, Wis., U. S. A." or for the words "Menominee Motor Truck Co. of Wis." apart from the mark as shown.

Particular description of goods.—Motor Trucks.

Claims use since Mar. 1, 1920.

Ser. No. 171,914. (CLASS 39. CLOTHING.) HAYWARD HOSIERY COMPANY, Ipswich, Mass. Filed Nov. 13, 1922.



No claim is made to the exclusive use of the word "Hosiery" except in association with the rest of the trade-mark.

Particular description of goods.—Hosiery of Silk, Cotton, Wool, and Combinations Thereof.

Claims use since Nov. 1, 1922.

Ser. No. 171,915. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEOPOLD E. HELFAND, doing business as Elpho Pharmacal Company, Philadelphia, Pa. Filed Nov. 13, 1922.

ELPHO

Particular description of goods.—Cold Cream.

Claims use since Jan. 25, 1919.

Ser. No. 171,968. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SUPERIOR FLAKE GRAPHITE COMPANY, Chicago, Ill. Filed Nov. 13, 1922.

CARBON-RAISER

Particular description of goods.—Graphite.

Claims use since May 26, 1921.

Ser. No. 171,976. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed Nov. 13, 1922.



No claim is made to the representation of a vehicle apart from the mark shown in the drawing.

Particular description of goods.—Motor-Driven Passenger Vehicles—Namely, Automobile Taxicabs.

Claims use since April, 1915.

Ser. No. 172,027. (CLASS 39. CLOTHING.) BROOKLYN SHIELD & RUBBER COMPANY, Brooklyn, N. Y. Filed Nov. 15, 1922.



Particular description of goods.—Baby Pants.

Claims use since Nov. 1, 1921.

Ser. No. 172,140. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AKTIEBOLAGET ATMOS. Stockholm, Sweden. Filed Nov. 17, 1922.

ATMOS

Trade-mark consists of the invented word "Atmos."

Particular description of goods.—High-Pressure Boilers and Parts Thereof.

Claims use since December, 1914.

Ser. No. 172,248. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 18, 1922.

Permalloy

Particular description of goods.—Magnetic Alloys.

Claims use since Sept. 19, 1922.

Ser. No. 172,261. (CLASS 39. CLOTHING.) CHIPPEWA SHOE MFG. CO., Chippewa Falls, Wis. Filed Nov. 20, 1922.



Particular description of goods.—Leather Boots and Shoes.

Claims use since Feb. 1, 1916.

Ser. No. 172,316. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ATLANTIC MILLS, Stottville, N. Y. Filed Nov. 21, 1922.

Fashionspun

Particular description of goods.—Woven Woolen Piece Goods.

Claims use since Nov. 1, 1921.

Ser. No. 172,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. F. GOODSON & COMPANY, doing business as J. F. Goodson Coffee Company, Morristown, Tenn. Filed Nov. 21, 1922.

GOOD CUP

Particular description of goods.—Coffee.

Claims use since October, 1921.

Ser. No. 172,359. (CLASS 39. CLOTHING.) CARL SCHWARTZ, New York, N. Y. Filed Nov. 21, 1922.

EVERSHAPE

Particular description of goods.—Men's Collars.

Claims use since Aug. 1, 1922.

Ser. No. 172,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 22, 1922.



The picture shown in the illustration is fanciful. No claim is made to the words "Bakers," or "Friend," or "Trade-Mark Registered" except when used in the manner shown and except when used on a flavoring compound for use in cakes, pastry, and other bakery goods.

Particular description of goods.—Flavoring Compound for Use in Cakes, Pastry, and Other Bakery Goods.

Claims use since 1908.

Ser. No. 172,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 22, 1922.



The picture shown in the illustration is fanciful. No claim is made to the words "Candy," or "Makers," or "Friend," or "Trade-Mark Registered" except when used in the manner shown and except when used on a flavoring compound for use in confectionery.

Particular description of goods.—Flavoring Compound for Use in Confectionery.

Claims use since 1911.

Ser. No. 172,379. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 22, 1922.



The picture shown in the illustration is fanciful. No claim is made to the words "Ice Cream," "Makers," or "Friend," or "Trade Mark Registered" except when used on a flavoring compound for use in ice cream.

Particular description of goods.—Flavoring Compound.
Claims use since 1910.

Ser. No. 172,382. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH G. HUFFEL, Jr., New York, N. Y. Filed Nov. 22, 1922.

Champée

Particular description of goods.—Mushroom Paste.
Claims use since Oct. 10, 1922.

Ser. No. 172,469. (CLASS 39. CLOTHING.) FRANKEL BROS., New York, N. Y. Filed Nov. 24, 1922.



Particular description of goods.—Men's Outer Clothing Consisting of Coats, Vests, Trousers, Overcoats, and Knickerbockers.
Claims use since September, 1922.

Ser. No. 172,490. (CLASS 39. CLOTHING.) J. J. PREIS & COMPANY, New York, N. Y. Filed Nov. 24, 1922.

Tommy Two Ply

Particular description of goods.—Boys' Outer Garments Consisting of Coats, Trousers, Overcoats, and Knickerbockers.
Claims use since October, 1921.

Ser. No. 172,511. (CLASS 39. CLOTHING.) CARTER DRY GOODS CO., Louisville, Ky. Filed Nov. 25, 1922.

BIG IKE

Particular description of goods.—Work Shirts.
Claims use since Oct. 1, 1922.

Ser. No. 172,519. (CLASS 39. CLOTHING.) CONCORDIA SILK HOSIERY COMPANY, Philadelphia, Pa. Filed Nov. 25, 1922.

BLUE LINE

Particular description of goods.—Hosiery.
Claims use since on or about Nov. 4, 1922.

Ser. No. 172,520. (CLASS 39. CLOTHING.) CONCORDIA SILK HOSIERY COMPANY, Philadelphia, Pa. Filed Nov. 25, 1922.

GREEN LINE

Particular description of goods.—Hosiery.
Claims use since on or about Nov. 20, 1922.

Ser. No. 172,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 25, 1922.

MALABOZA

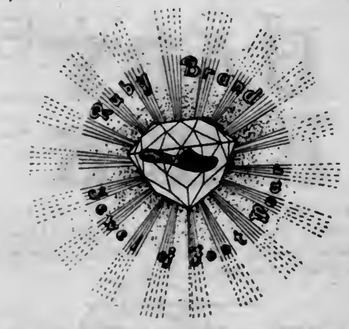
Particular description of goods.—Food Flavorings and Spices.
Claims use since June 1, 1922.

Ser. No. 172,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 25, 1922.

HELLER'S
VAN-BOUQUET

Particular description of goods.—Flavoring Compound.
Claims use since July 1, 1921.

Ser. No. 172,559. (CLASS 39. CLOTHING.) RUBIN BROTHERS, New York, N. Y. Filed Nov. 25, 1922.



No claim is made to the words "Brand," "Indian Moccasin," and "of Foot-Wear" and to the representation of the moccasin apart from the mark shown on the drawing.

Particular description of goods.—Footwear—Namely, Stitch-Down Leather Shoes; Felt, Satin, and Leather Slippers, and Spats.
Claims use since Nov. 1, 1922.

Ser. No. 172,660. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALUMINO-THERMIC CORPORATION, Roselle Park, N. J. Filed Nov. 29, 1922.



Trade-mark consists in the diamond-shaped border and in the word "Feralite" inclosed thereby, the words "Alumino Thermic Welding Mixture" respectively appearing upon the sides of the border, the words "Alumino Thermic Welding Mixture" being in publici juris. No claim is made to the exclusive right to the use thereof apart from the mark shown.

Particular description of goods.—Metallic Compounds Such as Aluminothermic Welding Mixture for Use in the Process of Welding Metals.
Claims use since Nov. 16, 1922.

Ser. No. 172,671. (CLASS 39. CLOTHING.) I. GINSBERG & BROS., New York, N. Y., assignors to Isaac Ginsberg & Brothers, Inc., a Corporation. Filed Nov. 20, 1922.

Queen Mother

Particular description of goods.—Women's Dresses.
Claims use since about Nov. 1, 1922.

Ser. No. 172,749. (CLASS 2. RECEPTACLES.) LEADER IRON WORKS, Decatur, Ill. Filed Dec. 1, 1922.

Rivet-Weld

Particular description of goods.—Tanks Including Oil, Gasoline-Storage Tanks, Water-Storage Tanks, Air-Receiving Tanks, and Hydropneumatic Tanks.
Claims use since Sept. 1, 1920.

Ser. No. 172,757. (CLASS 39. CLOTHING.) EDWARD D. MERIKLE, New York, N. Y. Filed Dec. 1, 1922.

TRU-VALU

Particular description of goods.—Hosiery.
Claims use since Aug. 10, 1922.

Ser. No. 172,779. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

BETTY KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,780. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

MOTHER KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,781. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

FATHER KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,782. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

BOBBY KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,783. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

ALICE KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,784. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

PETER KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,785. (CLASS 39. CLOTHING.) THE A. THOMPSON CO., Amsterdam, N. Y. Filed Dec. 1, 1922.

BABY KNICK

Particular description of goods.—Men's, Ladies', and Children's Hosiery, Knitted Underwear, and Sweaters.
Claims use since Jan. 17, 1922.

Ser. No. 172,788. (CLASS 39. CLOTHING.) WILLIAM VERNON'S SONS & CO., Philadelphia, Pa. Filed Dec. 1, 1922.



The picture shown on the drawing is fanciful.
Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since Jan. 10, 1922.

Ser. No. 172,838. (CLASS 12. CONSTRUCTION MATERIALS.) INTERSTATE PAINT & SUPPLIES CO. INC., Buffalo, N. Y. Filed Dec. 2, 1922.



Particular description of goods.—Roofing Compounds Known as Roof Preserves and Composition Roofing Material.
Claims use since July 31, 1922.

Ser. No. 172,844. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed Dec. 2, 1922.

SKATA-SET

Particular description of goods.—Boys' Skating Sets, Each Including a Hat, Sweater, Sweater Pants, and Scarf, Made of Wool Knitted Fabric.
Claims use since Nov. 29, 1922.

Ser. No. 172,859. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE J. BOLGIANO SEED CO., Baltimore, Md. Filed Dec. 4, 1922.



No claim is made to the words "Highest Quality" and "Brand," apart from the mark shown in the drawing.
Particular description of goods.—Field Seeds Comprising Clover, Grasses, Vetch, Millet, Timothy, Lespedeza, Rape, Fesque, Also Vegetable Seed and Flower Seed.
Claims use since Nov. 27, 1922.

Ser. No. 172,935. (CLASS 39. CLOTHING.) DREIFUS, ECKSTEIN & KING, INC., New York, N. Y. Filed Dec. 5, 1922.

BILLEROI

Trade-mark consists of the word "Billeroi."
Particular description of goods.—Men's, Women's, and Children's Knit and Flat Hosiery.
Claims use since Nov. 24, 1922.

Ser. No. 172,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. B. GOFF & SONS COMPANY, Camden, N. J. Filed Dec. 5, 1922.



Particular description of goods.—Candy.
Claims use since about Sept. 12, 1922.

Ser. No. 172,957. (CLASS 39. CLOTHING.) P. RAGUET FILS & J. VIGNES, Troyes, France. Filed Dec. 5, 1922.

382

Particular description of goods.—Hosiery and Knit Goods.
Claims use since July 18, 1901.

Ser. No. 172,958. (CLASS 39. CLOTHING.) P. RAGUET FILS & J. VIGNES, Troyes, France. Filed Dec. 5, 1922.

385

Particular description of goods.—Hosiery and Knit Goods.
Claims use since June 11, 1902.

Ser. No. 173,041. (CLASS 39. CLOTHING.) MAX FINKELSON, doing business as Onyx Blouse Co., New York, N. Y. Filed Dec. 7, 1922.



Particular description of goods.—Boys' Blouses.
Claims use since Nov. 1, 1922.

Ser. No. 173,049. (CLASS 39. CLOTHING.) KAJOWILL MILLS, Reading, Pa. Filed Dec. 7, 1922.



Particular description of goods.—Hosiery for Ladies.
Claims use since Oct. 1, 1922.

Ser. No. 173,145. (CLASS 39. CLOTHING.) PHILLIPS-JONES CORPORATION, New York, N. Y. Filed Dec. 9, 1922.

COCKO THE WALK



Particular description of goods.—Shirts, Nightshirts, Pyjamas, and Boys' Blouses.
Claims use since April, 1922.

Ser. No. 173,199. (CLASS 39. CLOTHING.) FLORENCE C. MORRISON, Buffalo, N. Y. Filed Dec. 11, 1922.

ANN ARISTOCRAT

Particular description of goods.—Women's Hats.
Claims use since Mar. 1, 1922.

Ser. No. 173,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES OLMATED, San Francisco, Calif. Filed Dec. 11, 1922.

O&O

Particular description of goods.—Candied Almonds.
Claims use since October, 1921.

Ser. No. 173,233. (CLASS 39. CLOTHING.) GOTHAM KNITTING MILLS, New York, N. Y. Filed Dec. 12, 1922.

GOTHAM

Particular description of goods.—Sweaters, Scarfs, Knitted Suits, Knitted Dresses, Bathing Suits, and Knitted Capes.
Claims use since Nov. 1, 1908.

Ser. No. 173,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BILOXI PACKING & TRADING CO., Biloxi, Miss. Filed Dec. 16, 1922.

SKOOKUM

The trade-mark consists of the word "Skookum."
Particular description of goods.—Canned Oysters and Canned Shrimp.
Claims use since on or about Jan. 15, 1916.

Ser. No. 173,471. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Dec. 18, 1922.

"MAN-O-WAR"

Particular description of goods.—Leather Gloves, Gauntlets, and Mittens.
Claims use since July 24, 1922.

Ser. No. 173,490. (CLASS 39. CLOTHING.) JULIUS GROSSMAN, INC., Brooklyn, N. Y. Filed Dec. 18, 1922.

REG. U.S. PAT. OFF.
Pedemode
JULIUS GROSSMAN · INC · NEW YORK ·

No claim is made to the words "New York," "Reg. U. S. Pat. Off." and "Julius Grossman, Inc." apart from the mark as shown on the drawing.
Particular description of goods.—Women's Shoes, High and Low Models, of Leather, Fabrics, and Combinations of Leather and Fabrics, and Also Including Corrective Models and Novelty Patterns of Such Shoes in All Styles.
Claims use since about Dec. 6, 1922.

Ser. No. 173,609. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SAMUEL BERNSTEIN, doing business as Reliable Household Specialties Mfg. Co., New York, N. Y. Filed Dec. 20, 1922.

WONDER-GLOSS

Particular description of goods.—Stove Polish in the Nature of a Paint, Furniture Polish in the Nature of a Varnish.
Claims use since June, 1922.

Ser. No. 173,654. (CLASS 39. CLOTHING.) CHARLES S. MERTON & Co., East Rutherford, N. J. Filed Dec. 21, 1922.

Merton-Air
THE AIR COOLED CAP

In the drawing the lining represents shading only, and no claim is made to the exclusive use of the words "The Air Cooled Cap" apart from the mark as shown on the drawing.
Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since Oct. 1, 1922.

Ser. No. 173,713. (CLASS 39. CLOTHING.) R. C. MILOW SHOE CO. INC., Rochester, N. Y. Filed Dec. 22, 1922.

SMART-STEPS

Particular description of goods.—Men's, Women's, and Children's Shoes of Leather.
Claims use since Nov. 29, 1922.

Ser. No. 173,885. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES S. EUSTIS, Woodland, Calif. Filed Dec. 27, 1922.

JIM E's
Toasted Almonds

The right to the exclusive use of the words "Toasted Almonds" and the pictorial representation of an almond is disclaimed apart from the other features of the mark shown.
Particular description of goods.—Toasted Almonds.
Claims use since Nov. 15, 1922.

Ser. No. 173,979. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) PELTZ, BOHRMAN, FURSE, INC., New York, N. Y. Filed Dec. 29, 1922.

WE COVER THE WORLD
P.B.F.C. INC.
ATLAS
UMBRELLA
TRADE MARK

No claim made to the words "Umbrella" and "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Umbrellas.
Claims use since Nov. 15, 1922.

Ser. No. 174,074. (CLASS 39. CLOTHING.) J. G. CURTIS LEATHER COMPANY, Ludlow, Pa. Filed Jan. 2, 1923. Under ten-year proviso.

CURTIS FLEXIBLE INNER SOLES

Particular description of goods.—Leather Insoles.
Claims use since 1887.

Ser. No. 174,124. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE E. BURCHER, doing business as Burcher's Pharmacy, Newport News, Va. Filed Jan. 3, 1923.

BURCHER'S
Gentianated
IRON and NUX

No claim being made to "Burcher's, Iron and Nux" apart from the mark as shown.
Particular description of goods.—A General Medicinal Tonic.
Claims use since July 1, 1915.

Ser. No. 174,149. (CLASS 32. FURNITURE AND UPHOLSTERY.) PAN-AMERICAN FURNITURE FACTORY, INC., New Orleans, La. Filed Jan. 3, 1923.



No claim is made to the word "Furniture" apart from the mark as shown.

Particular description of goods.—Upholstered Household Furniture—Namely, Chairs, Rockers, and Davenports.

Claims use since 1920.

Ser. No. 174,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. W. ONEAL CHEMICAL CO., Adena, Ohio. Filed Jan. 6, 1923.



Particular description of goods.—Ointment Used for Colds, Headache, Sore Throat, Croup, Pneumonia, Chapped Hands, Itching Piles, Chilblains, Bruises, Sore Muscles, Rheumatism, and Hay Fever.

Claims use since Dec. 9, 1922.

Ser. No. 174,290. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CADWALLADER GIBSON LUMBER CO., Manila, Philippine Islands; San Francisco, Calif., and New York, N. Y. Filed Jan. 8, 1923.



Particular description of goods.—Logs.

Claims use since January, 1922.

Ser. No. 174,300. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CADWALLADER GIBSON LUMBER CO., Manila, Philippine Islands; San Francisco, Calif., and New York, N. Y. Filed Jan. 8, 1923.



Particular description of goods.—Logs.

Claims use since January, 1922.

Ser. No. 174,363. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ANCHOR CAP & CLOSURE CORPORATION, Long Island City, N. Y. Filed Jan. 9, 1923.



Trade-mark comprises a plaid design having a red background crossed by blue, green, yellow, and black bars, as shown in the accompanying drawing.

Particular description of goods.—Fruit-Jar Rings.

Claims use since Mar. 10, 1919.

Ser. No. 174,452. (CLASS 37. PAPER AND STATIONERY.) INGERSOLL RENDFORT COMPANY, INC., New York, N. Y. Filed Jan. 11, 1923.

Ingersoll

The mark consists of the facsimile surname signature of William H. Ingersoll.

Particular description of goods.—Pencils, Pens, Leads, and Erasers.

Claims use since on or about Apr. 1, 1922.

Ser. No. 174,469. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923.

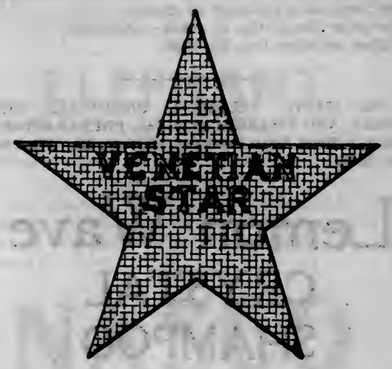


The lining in the drawing indicates yellow for the border, pink for the ground within the border, and purple for the lettering.

Particular description of goods.—Rouge and Powder.

Claims use since Aug. 8, 1916.

Ser. No. 174,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923.



The drawing is lined to indicate yellow color.

Particular description of goods.—Lip Paste and Lip Pencils.

Claims use since Aug. 8, 1916.

Ser. No. 174,513. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ECONOMY SYSTEM CO., INC., New York, N. Y. Filed Jan. 12, 1923.



No claim is made to the exclusive use of the representation of the hanger and the words "Clothes Racks & Hangers" apart from the mark as shown.

Particular description of goods.—Clothes Racks and Hangers.

Claims use since Dec. 28, 1922.

Ser. No. 174,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GROWERS DISTILLING CO., Woodbine, Md. Filed Jan. 12, 1923.

CHENOPODOL

Particular description of goods.—Chenopodium Oil.

Claims use since Dec. 1, 1922.

Ser. No. 174,526. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE PICTORIAL REVIEW COMPANY, New York, N. Y. Filed Jan. 12, 1923.

Pictograf

Particular description of goods.—Dress Patterns.

Claims use since about Dec. 1, 1921.

Ser. No. 174,527. (CLASS 39. CLOTHING.) E. P. REED & CO., Rochester, N. Y. Filed Jan. 12, 1923.



No claim is made to the representation of the sole of a shoe apart from the mark as shown.

Particular description of goods.—Shoes Made of Leather.

Claims use since about Dec. 21, 1922.

Ser. No. 174,529. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS ROESSEL & CO. INC., Hazleton, Pa., and New York, N. Y. Filed Jan. 12, 1923.

Zingari

Particular description of goods.—Crepe and Silk Goods in the Piece and Veilings.
Claims use since Jan. 6, 1922.

Ser. No. 174,540. (CLASS 26. MEASURING AND SCIENTIFC APPLIANCES.) STEVENS & COMPANY, INC., Providence, R. I. Filed Jan. 12, 1923.

INNERIM
ARTSHEL

No claim is made to the descriptive word "Innerim" apart from the mark shown.
Particular description of goods.—Ophthalmic Mountings and Parts Thereof.
Claims use since August, 1918.

Ser. No. 174,544. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRAVIS, ROMAINE & JELLE, INC., New York, N. Y. Filed Jan. 12, 1923.

Romany Print

No claim made to the word "Print" apart from the mark shown.
Particular description of goods.—Silk, Artificial-Silk, Cotton, Wool, Piece Goods and Combinations Thereof.
Claims use since Nov. 1, 1922.

Ser. No. 174,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 12, 1923. Under ten-year proviso.

Wampole's

HYPNO-BROMIC
COMP.

Particular description of goods.—Hypnotic Medicines.
Claims use since Feb. 27, 1890.

Ser. No. 174,553. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CHROMALTIC TOOL COMPANY, Chicago, Ill. Filed Jan. 13, 1923.

FIRE-ARMOR

Particular description of goods.—Heat-Treating Containers—Namely, Cyanide, Lead, and Salt Pots, Annealing and Case-Hardening Boxes, and for Heat-Treating Furnace Parts, Kiln Furnaces, and Oil-Cracking Still Parts.
Claims use since Jan. 1, 1923.

Ser. No. 174,558. (CLASS 38. PRINTS AND PUBLICATIONS.) COLEMAN-DOBSON-CANNON CO., INC., Nashville, Tenn. Filed Jan. 13, 1923.

The Modern Salesman

Particular description of goods.—Periodical Issued Weekly.
Claims use since Sept. 1, 1922.

Ser. No. 174,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAHAM BROS. SOAP COMPANY, Chicago, Ill. Filed Jan. 13, 1923.

Lemon Fluff
CRYSTAL
SHAMPOO

No claim is made to the use of the word "Shampoo" apart from the trade-mark as shown.
Particular description of goods.—Shampoo.
Claims use since Dec. 30, 1922.

Ser. No. 174,574. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAHAM BROS. SOAP COMPANY, Chicago, Ill. Filed Jan. 13, 1923.

Lemon Wave
CRYSTAL
SHAMPOO

No claim is made to the use of the word "Shampoo" apart from the trade-mark as shown.
Particular description of goods.—Shampoo.
Claims use since Dec. 30, 1922.

Ser. No. 174,584. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Jan. 13, 1923.

COLLEGIATE

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Sept. 10, 1898.

Ser. No. 174,602. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) THE BARKMAHN COMPANY, INC., New York, N. Y. Filed Jan. 13, 1923.

BARKING DOG
NEVER BITES

No claim is made to the exclusive use of the words "Never Bites" apart from the mark shown in the drawing.
Particular description of goods.—Pipes.
Claims use since Aug. 15, 1922.

Ser. No. 174,613. (CLASS 39. CLOTHING.) ANDREW C. ERICKSON, Los Angeles, Calif. Filed Jan. 15, 1923.

Jut-Girdle

Particular description of goods.—Leather Boots and Shoes.
Claims use since Dec. 1, 1922.

Ser. No. 174,683. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 17, 1923.

ELEPHANT

Particular description of goods.—Lead Pencils.
Claims use since Dec. 1, 1901.

Ser. No. 174,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NASSER AND COLEMAN COMPANY, Cleveland, Ohio. Filed Jan. 18, 1923.

NASCO

Particular description of goods.—Insect Powders or Insecticides.
Claims use since Jan. 1, 1923.

Ser. No. 174,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLAN O. MOLATCH, New York, N. Y. Filed Jan. 18, 1923.

Ukurit

Particular description of goods.—Ointment for the Cure and Alleviation of Piles, Prolapse, Fissure, and Itching and Irritation Due Thereto.
Claims use since June 1, 1922.

Ser. No. 174,777. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH A. HEITKAMP, St. Louis, Mo. Filed Jan. 19, 1923.

BERNADETTA

Particular description of goods.—Hair Pomade.
Claims use since Nov. 28, 1922.

Ser. No. 174,806. (CLASS 39. CLOTHING.) WICHERT INC., Brooklyn, N. Y. Filed Jan. 19, 1923.

Fairbend

Particular description of goods.—Boots, Shoes, and Slippers of Leather, Fabrics, and Combinations of Leather and Fabrics.
Claims use since Apr. 1, 1922.

Ser. No. 174,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. H. BROWN & BRO. COMPANY, Baltimore, Md. Filed Jan. 20, 1923.

DREAMERIE

Particular description of goods.—Perfume, Toilet Water, Sachet Powder, and Talcum and Face Powders.
Claims use since Jan. 1, 1923.

Ser. No. 175,054. (CLASS 39. CLOTHING.) BARBOUR WELTING COMPANY, Brockton, Mass. Filed Jan. 25, 1923.

SNOWFLAKE

Particular description of goods.—Cut Soles of Leather for Boots and Shoes.
Claims use since about Dec. 19, 1922.

Ser. No. 175,070. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHERMAN D. CLEGG, doing business as Vinco Herb Company, Dayton, Ohio. Filed Jan. 25, 1923.

VINCO

Particular description of goods.—Herb Tablets for the Stomach, Liver, Bowels, and Blood.
Claims use since August, 1915.

Ser. No. 175,103. (CLASS 39. CLOTHING.) C. T. PIDGEON MILLINERY CO., Fort Wayne, Ind. Filed Jan. 25, 1923.



No claim is made to the word "Hats" except in connection with the balance of the mark.
Particular description of goods.—Hats for Women.
Claims use since October, 1921.

Ser. No. 175,143. (CLASS 39. CLOTHING.) GRAY WOOD HEEL CO., Lynn, Mass. Filed Jan. 26, 1923.

"STYLEWOOD"

Particular description of goods.—Wood Heels.
Claims use since Oct. 1, 1922.

Ser. No. 175,158. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE PUP TOYS COMPANY, Chicago, Ill. Filed Jan. 26, 1923.



Particular description of goods.—Candlesticks, Incense Burners, and Lamps.
Claims use since May 1, 1922.

Ser. No. 175,164. (CLASS 39. CLOTHING.) E. P. REED & CO., Rochester, N. Y. Filed Jan. 26, 1923.

MATRIX

Particular description of goods.—Shoes Made of Leather.
Claims use since about Dec. 31, 1922.

Ser. No. 175,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH, KLINE & FRENCH CO., Philadelphia, Pa. Filed Jan. 26, 1923.

MENTHOLEX

Particular description of goods.—Antiseptic Antiphlogistic Ointment for the Relief of Local Inflammation and Congestion.
Claims use since Sept. 27, 1922.

Ser. No. 175,218. (CLASS 12. CONSTRUCTION MATERIALS.) JAMES B. SIPE & CO., INC., Bridgeville, Pa. Filed Jan. 27, 1923.

IMPERVOBOND

Particular description of goods.—Plastic or Semiplastic Cement for Protecting Iron.
Claims use since about January, 1922.

Ser. No. 175,265. (CLASS 38. PRINTS AND PUBLICATIONS.) THE OKLAHOMA PUBLISHING COMPANY, Oklahoma, Okla. Filed Jan. 29, 1923.

RETAIL SELLING
And The Oklahoma Retail Merchant

Particular description of goods.—Monthly Magazine.
Claims use since September, 1919.

Ser. No. 175,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 29, 1923.

"MY BABY'S"

Particular description of goods.—Talcum Powders.
Claims use since July 1, 1913.

Ser. No. 175,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 29, 1923.

CHEZLUI

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Jan. 12, 1923.

Ser. No. 175,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 29, 1923.

REVEILLON

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Jan. 11, 1923.

Ser. No. 175,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland. Filed Jan. 30, 1923.

Rising Sun

Particular description of goods.—Calcium Carbide.
Claims use since Feb. 22, 1921.

Ser. No. 175,301. (CLASS 37. PRINTS AND PUBLICATIONS.) CLIPPER BELT LACER COMPANY, Grand Rapids, Mich. Filed Jan. 30, 1923.

THE CLIPPER
JOG-BOOK

Particular description of goods.—Memoranda Books.
Claims use since Nov. 23, 1922.

Ser. No. 175,339. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Jan. 31, 1923.



The picture in the accompanying drawing is fanciful.
Particular description of goods.—Dolls.
Claims use since Jan. 19, 1923.

Ser. No. 175,355. (CLASS 39. CLOTHING.) HURLEY SHOE CO., Rockland, Mass. Filed Jan. 31, 1923.

GRIPSEM

Particular description of goods.—Shoes Made of Leather and Textile Fabric, Leather and Rubber, Textile Fabric and Rubber, and Combinations of Leather, Rubber, and Textile Fabrics.
Claims use since Dec. 30, 1922.

Ser. No. 175,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLON PALMER, New York, N. Y. Filed Jan. 31, 1923.



Particular description of goods.—Perfume, Toilet Water, and Complexion Powder.
Claims use since Jan. 10, 1923.

Ser. No. 175,385. (CLASS 38. PRINTS AND PUBLICATIONS.) CLASS JOURNAL COMPANY, New York, N. Y. Filed Feb. 1, 1923.

Motor Transport

Particular description of goods.—Semimonthly Publication.
Claims use since Jan. 15, 1923.

Ser. No. 175,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EVANS CHEMICAL WORKS, Portland, Oreg. Filed Feb. 1, 1923.

RUBY TIP

Particular description of goods.—Finger-Nail Polish, Cleaner, and Tonic.
Claims use since May 1, 1922.

Ser. No. 175,416. (CLASS 38. PRINTS AND PUBLICATIONS.) TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash. Filed Feb. 1, 1923.

I SEE BY THE PAPERS

Particular description of goods.—Column of News in Newspaper, Said Column Appearing from Time to Time.
Claims use since Apr. 14, 1921.

Ser. No. 175,447. (CLASS 2. RECEPTACLES.) THE WHITE TAR COMPANY, New York, N. Y. Filed Feb. 2, 1923.

WHITE TAR 

Particular description of goods.—Paper Bags and Paper Chests.
Claims use since 1886.

Ser. No. 175,476. (CLASS 39. CLOTHING.) ENDEL & PELES, New York, N. Y. Filed Feb. 3, 1923.



No claim made to the words "Live Straws" or the representation of a hat apart from the mark shown.
Particular description of goods.—Straw Hats and Hats Partly of Straw.
Claims use since Jan. 4, 1922.

Ser. No. 175,490. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) F. W. HAMPSHIRE & CO. LD., Derby, England. Filed Feb. 3, 1923.

WASP

Particular description of goods.—Fly Swatters and Sticky Paper for Catching Flies and Insects.
Claims use since June 29, 1905.

Ser. No. 175,542. (CLASS 39. CLOTHING.) BOYD-WELSH SHOE COMPANY, St. Louis, Mo. Filed Feb. 5, 1923.



The words "Vogue Shoe," which appear on the drawing are disclaimed apart from the mark.
Particular description of goods.—Leather and Cloth Shoes.
Claims use since about Jan. 2, 1923.

Ser. No. 175,573. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STERLING TOP & EQUIPMENT COMPANY, INC., Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1923.

STERLING MARQUISE

Particular description of goods.—Automobile Tops.
Claims use since Jan. 3, 1922.

Ser. No. 175,575. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y. Filed Feb. 5, 1923.



No claim is made to the exclusive use of the words "Hindustan Stripe" apart from the mark shown on the drawing.
Particular description of goods.—Silk Ribbons in the Piece.
Claims use since August, 1921.

Ser. No. 175,583. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEINER BROTHERS, INC., New York, N. Y. Filed Feb. 5, 1923.

BLOOMERETTE

Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 28, 1921.

Ser. No. 175,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DOLLY VARDEN CHOCOLATE COMPANY, Cincinnati, Ohio. Filed Feb. 6, 1923.

Rosemary

Particular description of goods.—Candies.
Claims use since 1903.

Ser. No. 175,721. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES T. IGOE, Chicago, Ill. Filed Feb. 8, 1923.

30th WARD NEWS

Particular description of goods.—Occasional Publication.
Claims use since Jan. 20, 1923.

Ser. No. 175,806. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL SHOE RETAILERS ASSOCIATION OF THE UNITED STATES OF AMERICA INC., Chicago, Ill. Filed Feb. 9, 1923.

NATIONAL FOOTWEAR

Particular description of goods.—Monthly Publication.
Claims use since June, 1922.

Ser. No. 175,878. (CLASS 39. CLOTHING.) THE MC-WADE TIRE AND RUBBER COMPANY, Garrettsville, Ohio. Filed Feb. 10, 1923.



No claim is made to the word "Heel" apart from the mark shown on the drawing.
Particular description of goods.—Rubber Heels.
Claims use since June 24, 1922.

Ser. No. 175,900. (CLASS 39. CLOTHING.) SAMUEL WHITMAN, New York, N. Y. Filed Feb. 10, 1923.



Particular description of goods.—Ladies' Hats.
Claims use since Dec. 1, 1922.

Ser. No. 175,903. (CLASS 39. CLOTHING.) THOMAS JANNEY COMPANY, Philadelphia, Pa. Filed Feb. 10, 1923.



No claim made to the pictorial representation of a shoe or the words "Your Shoe" and "Rebuilt at the Factory" apart from the mark shown.
Particular description of goods.—Leather, Rubber, and Fabric, Also Combinations of Leather and Rubber, Rubber and Textile-Fabric, and Leather and Textile-Fabric Shoes.
Claims use since Nov. 1, 1922.

Ser. No. 175,992. (CLASS 39. CLOTHING.) M. KUTZ COMPANY, INC., Atlanta, Ga. Filed Feb. 13, 1923.



No claim is made to the word "Chapeau" apart from the mark shown on the drawing.
Particular description of goods.—Ladies' Hats.
Claims use since February, 1920.

Ser. No. 176,032. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK LAW REVIEW CORPORATION, New York, N. Y. Filed Feb. 14, 1923.

NEW-YORK
·LAW REVIEW·

Particular description of goods.—Name of a Monthly Magazine.
Claims use since Jan. 1, 1923.

Ser. No. 176,047. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SATSUMA ORANGE & PECAN GROVES COMPANY, INC., Mobile and Satsuma, Ala. Filed Feb. 14, 1923.

SUNGOLD

Particular description of goods.—Fresh Fruit—viz, Satsuma.
Claims use since Nov. 1, 1922.

Ser. No. 176,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FULTON SMOKED FISH CO., Chicago, Ill. Filed Feb. 16, 1923.

GOLDEN SMOKE

Particular description of goods.—Smoked Fish.
Claims use since Jan. 19, 1923.

Ser. No. 176,129. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Feb. 16, 1923.

SPROUTS

Particular description of goods.—Chocolate.
Claims use since about 1905.

Ser. No. 176,142. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, at times doing business as The Western Company, Chicago, Ill. Filed Feb. 16, 1923.



Trade-mark consists of the fanciful picture of a lady looking into a mirror held in one hand, while her other hand touches her hair.
Particular description of goods.—Hair Nets.
Claims use since Mar. 15, 1920.

Ser. No. 176,173. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GENERAL WATER HEATER CORPORATION, Los Angeles, Calif. Filed Feb. 17, 1923.

DE LUXE

Particular description of goods.—Water Heaters, Automatic and Nonautomatic Operated, Either by Gas or Electricity.
Claims use since October, 1920.

Ser. No. 176,223. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES T. SMITH COMPANY, INC., New Bedford, Mass. Filed Feb. 17, 1923.



The words "Purity" and "Unexcelled" appearing in the drawing submitted are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Oct. 15, 1913.

Ser. No. 176,256. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELANO, POTTER & CO., INC., Boston, Mass. Filed Feb. 19, 1923.

DOUBLE ARROW

Particular description of goods.—Tea.
Claims use since Jan. 2, 1920.

Ser. No. 176,262. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FOLEY & COMPANY, Chicago, Ill. Filed Feb. 19, 1923. Under ten-year proviso.

FOLEY

Particular description of goods.—Lemon and Vanilla Extracts and Essence of Peppermint Flavor.
Claims use since on or about Jan. 1, 1885.

Ser. No. 176,266. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE GRAND FORKS BOTTLING WORKS, Grand Forks, N. Dak. Filed Feb. 19, 1923.

NODAK BEVERAGES

The word "Beverages" appearing in the drawing submitted is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Ginger Ale, Cream Soda, Root Beer, and the Following Flavored Soft Drinks: Cherry, Grape, Lemon, Lemon Sour, Lime, Orange, Raspberry, and Strawberry.
Claims use since Apr. 1, 1922.

Ser. No. 176,267. (CLASS 39. CLOTHING.) THE GROSSMAN SHOE CO., Chicago, Ill. Feb. 19, 1923.



The applicant hereby disclaims the use of the pictorial representation of a shoe as well as the words "Grossman's Corrector Shoe," and "For Feet That Need Correction" as a part of its trade-mark.
Particular description of goods.—Leather Boots, Shoes, Oxfords, and Low Quarters.
Claims use since Sept. 1, 1922.

Ser. No. 176,274. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Feb. 19, 1923.

MA KO

Trade-mark consists of the word "Ma Ko."
Particular description of goods.—Candy.
Claims use since 1913.

Ser. No. 176,278. (CLASS 38. PRINTS AND PUBLICATIONS.) PETROLEUM PUBLISHING COMPANY, Fort Worth, Tex. Filed Feb. 19, 1923.

THE OIL DERRICK

Particular description of goods.—Weekly Periodical.
Claims use since Feb. 5, 1923.

Ser. No. 176,285. (CLASS 38. PRINTS AND PUBLICATIONS.) FRANCIS L. SERAGE, doing business as Community Advertising Co., Columbus, Ohio. Filed Feb. 19, 1923.

Our Community Calendar

Particular description of goods.—Calendars Published Annually.
Claims use since Jan. 1, 1923.

Ser. No. 176,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARMEL CANNING CO., San Francisco, Calif. Filed Feb. 20, 1923.



Particular description of goods.—Canned Fish.
Claims use since Feb. 8, 1923.

Ser. No. 176,331. (CLASS 39. CLOTHING.) W. L. DOUGLAS SHOE COMPANY, Brockton, Mass. Filed Feb. 20, 1923.

CORFLEX

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since about Sept. 25, 1922.

Ser. No. 176,332. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Feb. 20, 1923.

FAHRENITE

Particular description of goods.—Heat and Corrosion Resisting Alloys in the Form of Castings and Forgings.
Claims use since about Apr. 1, 1922.

Ser. No. 176,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEERLESS FOOD PRODUCTS CO. INC., Long Island City, N. Y. Filed Feb. 20, 1923.

KEWKEES

Particular description of goods.—Preserved Cucumbers.
Claims use since Jan. 1, 1923.

Ser. No. 176,370. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SUN-HERALD CORPORATION, New York, N. Y. Filed Feb. 20, 1923.

Billy Bunk

Particular description of goods.—Cartoon Serials.
Claims use since Feb. 4, 1923.

Ser. No. 176,392. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WOLFE LEATHER CO., Boston, Mass. Filed Feb. 20, 1923.



No claim is made to the word "Brand."
Particular description of goods.—Leathers.
Claims use since Sept. 5, 1922.

Ser. No. 176,427. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. K. POND COMPANY, Chicago, Ill. Filed Feb. 21, 1923.

TOYLAND

Particular description of goods.—Peanut Butter.
Claims use since Jan. 27, 1923.

Ser. No. 176,447. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUTTERICK PUBLISHING COMPANY, New York, N. Y. Filed Feb. 23, 1923.

BETTER HOMES IN AMERICA
Plan Book

Particular description of goods.—Pamphlet Published from Time to Time.
Claims use since Aug. 14, 1922.

Ser. No. 176,455. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) R. E. DIETZ COMPANY, New York, N. Y. Filed Feb. 23, 1923.

SPORT

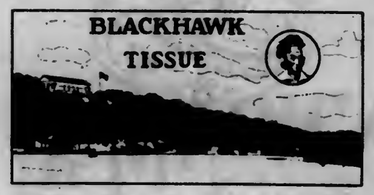
Particular description of goods.—Oil-Burning Lanterns and the Burners and Metal Parts Thereof.
Claims use since on or about Dec. 12, 1922.

Ser. No. 176,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LIQUID CARBONIC COMPANY, Chicago, Ill. Filed Feb. 23, 1923.

LACTOID

Trade-mark consists of the word "Lactoid."
Particular description of goods.—Compound of Vegetable Gums and Sugars Designed for Use as an Ingredient of Ice Cream to Improve the Body of the Product.
Claims use since Jan. 25, 1923.

Ser. No. 176,501. (CLASS 37. PAPER AND STATIONERY.) THE PETERSON PAPER COMPANY, Davenport, Iowa. Filed Feb. 23, 1923.



No claim is made to the use of the word "Tissue" apart from the mark shown in the drawing, applicant specifically reserving his common-law rights thereto.
Particular description of goods.—Toilet Paper.
Claims use since Jan. 1, 1923.

Ser. No. 176,541. (CLASS 39. CLOTHING.) GOLDWEB HAT COMPANY, New York, N. Y. Filed Feb. 24, 1923.



The words "Skill and Art Woven Into Fashion" are disclaimed except as associated with the other features of the trade-mark; but applicant does not by this disclaimer surrender its common-law rights to this phrase.
Particular description of goods.—Ladies' Hats.
Claims use since Sept. 1, 1922.

Ser. No. 176,627. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIRSCH BROS. & CO., INCORPORATED, Louisville, Ky. Filed Feb. 26, 1923.

ONAISE

Particular description of goods.—Salad Relish.
Claims use since Jan. 18, 1923.

Ser. No. 176,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EAGLE TEA & COFFEE COMPANY, INC., New York, N. Y. Filed Feb. 27, 1923.

NATIONAL CUP

Particular description of goods.—Coffee and Tea.
Claims use since Feb. 1, 1923.

Ser. No. 176,682. (CLASS 38. PRINTS AND PUBLICATIONS.) EDWARD F. MACK, New York, N. Y. Filed Feb. 27, 1923.

MACK'S MOVIE MOB

Particular description of goods.—Advertising Posters.
Claims use since Feb. 24, 1923.

Ser. No. 176,742. (CLASS 39. CLOTHING.) M. KIRSCHNER & SONS, doing business as Daintimiss Dressmakers, also doing business at Marjolaine Dresses, New York, N. Y. Filed Feb. 28, 1923.

OMAR
TUT-ANKH-AMEN

Particular description of goods.—Dresses, Capes, Sport Suits, Outer Skirts, Waists, Costumes, Wraps, and Evening Gowns.
Claims use since Feb. 1, 1923.

Ser. No. 176,756. (CLASS 39. CLOTHING.) NEW ENGLAND PANAMA HAT CO., INC., New York, N. Y. Filed Feb. 28, 1923.



Particular description of goods.—Women's, Men's, Boys', Girls', Children's and Infants' Hats Made of Wool, Silk, Cotton, Fur, Felt, Straw, Hemp, Rattan, Osier, and Palm Leaf.
Claims use since July 1, 1921.

Ser. No. 176,759. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Feb. 28, 1923.



Applicant disclaims the exclusive right to the word "Hats" apart from the mark shown on the drawing.
Particular description of goods.—Men's Hats.
Claims use since Feb. 28, 1921.

Ser. No. 176,760. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Feb. 28, 1923.



Applicant disclaims the exclusive right to the word "Caps" apart from the mark shown on the drawing.
Particular description of goods.—Men's and Boys' Caps.
Claims use since Sept. 1, 1921.

Ser. No. 176,828. (CLASS 38. PRINTS AND PUBLICATIONS.) L. ALLEN HEINE, doing business as The Heine Service, Ltd., Louisville, Ky. Filed Mar. 2, 1923.



Particular description of goods.—Periodical Publication.
Claims use since Feb. 23, 1923.

Ser. No. 176,892. (CLASS 38. PRINTS AND PUBLICATIONS.) MILLER FREEMAN, New York, N. Y. Filed Mar. 3, 1923.

OIL ENGINE POWER

Particular description of goods.—Monthly Publication.
Claims use since Jan. 25, 1923.

Ser. No. 176,910. (CLASS 38. PRINTS AND PUBLICATIONS.) NORRISTOWN HERALD, INC., Norristown, Pa. Filed Mar. 3, 1923.

THE NORRISTOWN TIMES

Particular description of goods.—Periodical Publication Published Daily.
Claims use since 1881.

Ser. No. 176,921. (CLASS 39. CLOTHING.) L. SHAPARMAN, INC., New York, N. Y. Filed Mar. 3, 1923.



No rights are asserted to the exclusive use of the words "Fashioned in New York," or the representation of a hat apart from the trade-mark, as shown in the drawing.
Particular description of goods.—Headwear—Namely, Soft and Stiff Hats for Men.
Claims use since Dec. 15, 1922.

Ser. No. 177,000. (CLASS 38. PRINTS AND PUBLICATIONS.) THE IMPLEMENT AGE COMPANY, Springfield, Ohio. Filed Mar. 5, 1923.

Farm Equipment Merchandising

Particular description of goods.—Monthly Publication Devoted to the Farm-Equipment Industry.
Claims use since Jan. 1, 1923.

Ser. No. 177,017. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NILES-BEMENT-POND COMPANY, New York, N. Y. Filed Mar. 5, 1923.

N·B·P

Particular description of goods.—Machine Tools Consisting of Planers, Lathes, and Drilling Machines.
Claims use since Feb. 14, 1923.

Ser. No. 177,161. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Mar. 9, 1923.

Shekara

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth in the Piece.
Claims use since about Feb. 15, 1923.

Ser. No. 177,162. (CLASS 17. TOBACCO PRODUCTS.) BAY STATE CIGAR CO., INC., Westfield, Mass. Filed Mar. 9, 1923.

LA MARICA

Particular description of goods.—Cigars.
Claims use since 1915.

Ser. No. 177,169. (CLASS 39. CLOTHING.) CROCKER & MORSE, INC., Bridgewater, Mass. Filed Mar. 9, 1923.

Tut

Particular description of goods.—Boots and Shoes Made of Leather, Fabric, or the Combination of Leather and Fabric.
Claims use since Mar. 1, 1923.

Ser. No. 177,244. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ABRAHAM L. REACH, doing business as A. L. Reach Textile Co., New York, N. Y. Filed Mar. 10, 1923.



No claim is made to the word "Brand" apart from the other features of the mark shown.
Particular description of goods.—Furniture and Furniture-Van Pads.
Claims use since on or about Jan. 1, 1923.

Ser. No. 177,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MODERN PHARMACAL CO., INC., New York, N. Y. Filed Mar. 9, 1923.

MALTOGEN

Trade-mark consists of the word "Maltogen."
Particular description of goods.—Malt Preparation Intended as a General Tonic in Building Up the Tissues and as a Blood Maker.
Claims use since Mar. 1, 1909.

Ser. No. 177,320. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. W. PARKER CO., INC., Des Moines, Iowa. Filed Mar. 12, 1923.



The drawing is lined to show the color brown, although the printed labels having the mark thereon are made in different colors.

Particular description of goods.—Automobile Polish and Cleaner.

Claims use since Aug. 1, 1919.

Ser. No. 177,322. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PARKS & PARKS, INC., Troy, N. Y. Filed Mar. 12, 1923.

C.E.P.

Particular description of goods.—Shoe Daubers.

Claims use since Jan. 22, 1923.

Ser. No. 177,342. (CLASS 38. PRINTS AND PUBLICATIONS.) WOMAN'S WORLD MAGAZINE CO., INC., Chicago, Ill. Filed Mar. 12, 1923.

ILLUSTRATED NEEDLEWORK

Trade-mark consists of the words "Illustrated Needlework."

Particular description of goods.—Quarterly Magazine.

Claims use since Sept. 1, 1922.

Ser. No. 177,388. (CLASS 42.—KNITTED, NETTED, AND TEXTILE FABRICS.) JACK KLEIN, doing business as J. Klein Co., New York, N. Y. Filed Mar. 13, 1923.

NEEDLECRAFT

Particular description of goods.—Handkerchiefs.

Claims use since Feb. 1, 1923.

Ser. No. 177,403. (CLASS 38. PRINTS AND PUBLICATIONS.) PERIODICAL PUBLISHING COMPANY, Grand Rapids, Mich. Filed Mar. 13, 1923.

WITHIN THE HOME

Particular description of goods.—Quarterly Publication.

Claims use since November, 1922.

Ser. No. 177,537. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AUERLICHT GESELLSCHAFT M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany. Filed Mar. 16, 1923.

AUERBEST

Particular description of goods.—Upright and Inverted Gas Mantles, Burners, and Lamps Therefor and Their Parts and Supplies Therefor.

Claims use since June 1, 1922.

Ser. No. 177,552. (CLASS 37. PAPER AND STATIONERY.) E. FLEMING & CO., Cambridge, Mass. Filed Mar. 16, 1923.

LISTEN-IN

Particular description of goods.—Radio Record Books.

Claims use since Mar. 8, 1923.

Ser. No. 177,645. (CLASS 31 FILTERS AND REFRIGERATORS.) THE AUTOMATIC REFRIGERATING COMPANY, Hartford, Conn. Filed Mar. 19, 1923.



No claim is made to the words "Hartford, Conn. U. S. A." apart from the mark shown in the drawing.

Particular description of goods.—Refrigerating Apparatus.

Claims use since Aug. 16, 1922.

Ser. No. 177,704. (CLASS 38. PRINTS AND PUBLICATIONS.) TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash. Filed Mar. 19, 1923.

Graphic-Fiction Page

Times Printing Company of Seattle

Particular description of goods.—Newspaper Supplement.

Claims use since Aug. 27, 1922.

Ser. No. 177,705. (CLASS 38. PRINTS AND PUBLICATIONS.) TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash. Filed Mar. 19, 1923.

Graphic-Fiction Section

Times Printing Company of Seattle

Particular description of goods.—Newspaper Supplement.

Claims use since Nov. 10, 1922.

Ser. No. 177,706. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Mar. 19, 1923.

Chicago Daily Tribune

Particular description of goods.—Newspaper and Newspaper Supplements Published Daily.

Claims use since June, 1847.

Ser. No. 177,847. (CLASS 38. PRINTS AND PUBLICATIONS.) LOUIS A. HOWLAND, Hollywood, Calif. Filed Mar. 22, 1923.

UNO

Particular description of goods.—Photographic Reproductions of Pictures.

Claims use since Feb. 1, 1923.

Ser. No. 177,977. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JORDAN MARSH COMPANY, Boston, Mass. Filed Mar. 24, 1923.

"Avona"

Particular description of goods.—Cleaning Pads for Talking-Machine Records.

Claims use since Jan. 1, 1923.

Ser. No. 178,071. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE SUNRAY STOVE COMPANY, Delaware, Ohio. Filed Mar. 26, 1923.



Particular description of goods.—Gas Ranges and Heaters.

Claims use since 1904.

Ser. No. 178,086. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BELL SYNDICATE, INC., New York, N. Y. Filed Mar. 27, 1923.

THE NEBBS.

Particular description of goods.—Series of Cartoons.

Claims use since Mar. 20, 1923.

Ser. No. 178,104. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOHN JAMES & SONS LIMITED, Redditch, England. Filed Mar. 27, 1923.



No claim made to the exclusive right to the use of the words "Trade Mark," "Packet" and "Sharps" apart from the mark shown in the drawing.

Particular description of goods.—Needles for Hand Sewing.

Claims use since about 1899.

Ser. No. 178,165. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Mar. 28, 1923.

GoodNews

Particular description of goods.—Periodical Issued Monthly.

Claims use since December, 1919.

Ser. No. 178,259. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LADWIG-SCHLUETER CO., Milwaukee, Wis. Filed Mar. 29, 1923.

DA-GO WILD

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Syrups Used in the Preparation of Same.
Claims use since January, 1922.

Ser. No. 178,341. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) HENSON-BLAIR MANUFACTURING COMPANY, Philadelphia, Pa. Filed Mar. 30, 1923.

Handy Henrietta

Particular description of goods.—Mops.
Claims use since Feb. 19, 1923.

Ser. No. 178,349. (CLASS 45. BEVERAGES, NONALCOHOLIC.) C. EDWARD MAY, doing business as Crown Bottling Works, Baltimore, Md. Filed Mar. 30, 1923.

MAYLO

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since May 8, 1922.

Ser. No. 178,540. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. ALTMAN & Co., New York, N. Y. Filed Apr. 4, 1923.

BALCO

Particular description of goods.—Hair Nets.
Claims use since Mar. 30, 1923.

Ser. No. 178,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAMON A. BINKERT, doing business as Solvine Chemical Company, Washington, D. C. Filed Apr. 4, 1923.

SOLVINE

Particular description of goods.—Antiseptic Powder.
Claims use since May 1, 1922.

Ser. No. 178,581. (CLASS 37. PAPER AND STATIONERY.) UNITED STATES ENVELOPE COMPANY, Springfield, Mass. Filed Apr. 4, 1923.

MULTIPOST

Particular description of goods.—Envelopes.
Claims use since Mar. 1, 1923.

Ser. No. 178,610. (CLASS 12. CONSTRUCTION MATERIALS.) HIGHLAND LAKE PAPER COMPANY, Walpole, Mass. Filed Apr. 5, 1923.

CHALLENGE

Trade-mark consists of the word "Challenge."
Particular description of goods.—Sheathing Paper, Waterproof Building Paper, Roofing Paper, Tar Felt, and Asphalt Shingles.
Claims use since 1897.

Ser. No. 178,637. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LOUIS STIX CO., Cincinnati, Ohio, and New York, N. Y. Filed Apr. 5, 1923.

CONCERT

Trade-mark consists of the word "Concert."
Particular description of goods.—Bleached Cotton Piece Goods.
Claims use since Mar. 12, 1923.

Ser. No. 178,638. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LOUIS STIX CO., Cincinnati, Ohio, and New York, N. Y. Filed Apr. 5, 1923.

MAYDAY

Trade-mark consists of the word "Mayday."
Particular description of goods.—Bleached Cotton in the Piece.
Claims use since Mar. 12, 1923.

Ser. No. 178,639. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LOUIS STIX CO., Cincinnati, Ohio, and New York, N. Y. Filed Apr. 5, 1923.

SINEW

Trade-mark consists of the word "Sinew."
Particular description of goods.—Brown Cottons in the Piece.
Claims use since Mar. 12, 1923.

Ser. No. 178,640. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LOUIS STIX CO., Cincinnati, Ohio, and New York, N. Y. Filed Apr. 5, 1923.

SUBLIME

Trade-mark consists of the word "Sublime."
Particular description of goods.—Bleached Cotton Piece Goods.
Claims use since Mar. 12, 1923.

Ser. No. 178,648. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES F. WHITE & Co., INC., New York, N. Y. Filed Apr. 5, 1923.

Silcoon

Particular description of goods.—Cotton, Woolen, and Silk Piece Goods and Combinations Thereof.
Claims use since about Dec. 2, 1922.

Ser. No. 178,657. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN BAUMAN & Co., New York, N. Y. Filed Apr. 6, 1923.

BAUMADE

Trade-mark consists of the word "Baumade."
Particular description of goods.—Silk, Cotton, and Wool Piece Goods and Mixtures of the Same.
Claims use since Mar. 22, 1923.

Ser. No. 178,664. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) CARL GRÜNEBERG, BÜRSTEN-FABRIC BRATISLAVA, Bratislava, Czechoslovakia. Filed Apr. 6, 1923.

KOH-I-NOOR

Particular description of goods.—Toothbrushes.
Claims use since Feb. 11, 1909.

Ser. No. 178,684. (CLASS 15. OILS AND GREASES.) THE VELVET OIL COMPANY, Toledo, Ohio. Filed Apr. 6, 1923.

Velco

Particular description of goods.—Motor Oils.
Claims use since about Mar. 15, 1923.

Ser. No. 178,747. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 7, 1923.

DISETA

Particular description of goods.—Cotton Goods in the Piece.
Claims use since October, 1912.

Ser. No. 178,748. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 7, 1923.

904 GINGHAM

No claim made for the word "Gingham."
Particular description of goods.—Cotton Goods in the Piece.
Claims use since October, 1910.

Ser. No. 178,761. (CLASS 37. PAPER AND STATIONERY.) MCLAURIN-JONES CO., Brookfield, Mass. Filed Apr. 7, 1923.

KROMO

Trade-mark consists of the word "Kromo."
Particular description of goods.—Coated Paper Adapted Especially for Use for Coated Papers to be Printed or Lithographed.
Claims use since about Feb. 1, 1923.

Ser. No. 178,764. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMILE MEYER, New York, N. Y. Filed Apr. 7, 1923.



Particular description of goods.—Cotton goods in the Piece, Silk and Cotton Fabric in the Piece, and Silk Goods in the Piece.
Claims use since May, 1923.

Ser. No. 178,810. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 9, 1923.

Cascadine

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 12, 1923.

Ser. No. 178,811. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 9, 1923.

Cascado

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 27, 1923.

Ser. No. 178,856. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed Apr. 9, 1923.

Marvelour

Particular description of goods.—Cover Paper.
Claims use since Nov. 21, 1922.

Ser. No. 178,857. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed Apr. 9, 1923.

Marvelhide

Particular description of goods.—Cover Paper.
Claims use since Sept. 28, 1922.

Ser. No. 178,888. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Apr. 9, 1923. Under ten-year proviso.

English Vellum

Particular description of goods.—Writing Paper and Mailing Envelopes.
Claims use since January, 1895.

Ser. No. 178,896. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

ATLANTIC

Particular description of goods.—Matches.
Claims use since 1894.

Ser. No. 178,897. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923. Under ten-year proviso.



Particular description of goods.—Matches.
Claims use since 1885.

Ser. No. 178,898. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

BLACK SWAN

Particular description of goods.—Matches.
Claims use since January, 1909.

Ser. No. 178,899. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since January, 1909.

Ser. No. 178,900. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

BLUE BIRD

Particular description of goods.—Matches.
Claims use since 1892.

Ser. No. 178,901. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since November, 1911.

Ser. No. 178,902. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

BLUE RIBBON

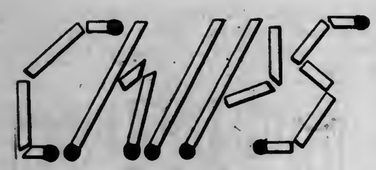
Particular description of goods.—Matches.
Claims use since June, 1914.

Ser. No. 178,903. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since June, 1914.

Ser. No. 178,904. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since Apr. 1, 1898.

Ser. No. 178,905. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

CRUSADERS

Particular description of goods.—Matches.
Claims use since October, 1921.

Ser. No. 178,906. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since October, 1921.

Ser. No. 178,907. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

DOMINO

Particular description of goods.—Matches.
Claims use since 1905.

Ser. No. 178,908. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since March, 1905.

Ser. No. 178,909. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Trade-mark consists of the word "Star" and the representation of a star.
Particular description of goods.—Matches.
Claims use since about March, 1897.

Ser. No. 178,912. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.

SEARCH LIGHT

Particular description of goods.—Matches.
Claims use since December, 1897.

Ser. No. 178,913. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Apr. 10, 1923.



Particular description of goods.—Matches.
Claims use since December, 1897.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 22, 1923.

168,313. LADIES' HATS. JOHN TRINNER, New York, N. Y.
Filed August 25, 1922. Serial No. 168,696. PUBLISHED JANUARY 30, 1923.

168,314. KNITTED SWEATERS AND KNITTED CAPS. THE KELLER KNITTING COMPANY, Cleveland, Ohio.
Filed August 21, 1922. Serial No. 168,530. PUBLISHED DECEMBER 19, 1922.

168,315. CIGARETTES. G. A. GEORGOPULO & Co., New York, N. Y.
Filed August 15, 1922. Serial No. 168,260. PUBLISHED FEBRUARY 27, 1923.

168,316. INDIA-RUBBER PLATES OR PADS FOR ATTACHMENT TO THE SOLES OF BOOTS AND SHOES. PHILLIPS' PATENTS LIMITED, London, England.
Filed August 14, 1922. Serial No. 168,234. PUBLISHED NOVEMBER 14, 1922.

168,317. LEATHER. MONARCH LEATHER COMPANY, Chicago, Ill.
Filed August 14, 1922. Serial No. 168,222. PUBLISHED DECEMBER 19, 1922.

168,318. WOMEN'S FUR COATS. FRIED ENGEL & COMPANY, INC., New York, N. Y.
Filed August 14, 1922. Serial No. 168,214. PUBLISHED JANUARY 9, 1923.

168,319. WELT AND TURN SHOES, OXFORDS, PUMPS, AND SLIPPERS. ELKIN TURN SHOE COMPANY, Philadelphia, Pa.
Filed August 4, 1922. Serial No. 167,804. PUBLISHED FEBRUARY 27, 1923.

168,320. TOY INSECT. ADA MONTAGUE HEWITT, Detroit, Mich.
Filed August 3, 1922. Serial No. 167,774. PUBLISHED FEBRUARY 27, 1923.

168,321. ONE-PIECE OVERALL OR COMBINATION SUITS FOR MEN, WOMEN, AND CHILDREN. HYATT LEMOINE, New York, N. Y.
Filed July 31, 1922. Serial No. 167,644. PUBLISHED FEBRUARY 13, 1923.

168,322. ANTISEPTIC LAXATIVE. PARTOLA DISTRIBUTING COMPANY, New York, N. Y.
Filed July 28, 1922. Serial No. 167,532. PUBLISHED FEBRUARY 20, 1923.

168,323. CORSETS. WAISTS, GIRDLES, AND CORSET COMBINATIONS. BIRDSEY SOMERS COMPANY, New York, N. Y.
Filed July 22, 1922. Serial No. 167,221. PUBLISHED JANUARY 30, 1923.

168,324. MEN'S AND YOUNG MEN'S GARMENTS, CONSISTING OF OVERCOATS, RAINCOATS, COATS, VESTS, AND TROUSERS. THE STYLE-CENTER TAILORING COMPANY, Cincinnati, Ohio.
Filed July 1, 1922. Serial No. 166,410. PUBLISHED DECEMBER 19, 1922.

168,325. GRASS OR FIELD SEEDS AND SEED GRAINS. HORACE E. CONKLIN, doing business as E. W. Conklin and Son, Binghamton, N. Y.
Filed July 1, 1922. Serial No. 166,345. PUBLISHED DECEMBER 19, 1922.

168,326. HOSIERY AND MEN'S AND WOMEN'S KNITTED UNDERWEAR. JOSEPH A. KRONOVET, doing business as The Durabell Mills Co., New York, N. Y.
Filed June 23, 1922. Serial No. 165,959. PUBLISHED JANUARY 2, 1923.

168,327. MIDDY BLOUSES, OVERBLOUSES, SMOCKS, TUXEDOS, WAISTS, AND DRESSES. SAILOR MAID MIDDY CO. INC., Brooklyn, N. Y.
Filed June 19, 1922. Serial No. 165,727. PUBLISHED NOVEMBER 14, 1922.

168,328. MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. J. D. SILBERSTEIN & SONS, INC., New York, N. Y.
Filed June 15, 1922. Serial No. 165,566. PUBLISHED NOVEMBER 7, 1922.

168,329. COATS FOR LADIES AND MISSES. JOHN & JAMES DOBSON, INC., New York, N. Y.
Filed June 10, 1922. Serial No. 165,289. PUBLISHED JANUARY 2, 1923.

168,330. MEN'S AND BOYS' OVERALLS AND COVERALLS. LINDEKE, WARNER & SONS, INCORPORATED, St. Paul, Minn.
Filed June 5, 1922. Serial No. 165,026. PUBLISHED OCTOBER 31, 1922.

168,331. BEER, MALT TONIC AND MALT BEVERAGES AND MALT SIRUPS. THE SAN FRANCISCO BREWERIES, LTD., San Francisco, Calif., assignor to Wielands Incorporated, a Corporation of California.
Filed July 25, 1922. Serial No. 167,367. PUBLISHED FEBRUARY 27, 1923.

168,332. MISSES' AND CHILDREN'S HATS. GARNER BROS., New York, N. Y.
Filed August 26, 1922. Serial No. 168,715. PUBLISHED JANUARY 30, 1923.

168,333. BABY BIBS, INFANTS' PANTS, WATERPROOF APRONS. THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio.
Filed April 8, 1922. Serial No. 161,935. PUBLISHED FEBRUARY 20, 1923.

168,334. COFF-O-MALT, A BEVERAGE MADE FROM BARLEY GRAIN, WHICH IS MALTED, ROASTED, AND SCIENTIFICALLY PREPARED, A SUBSTITUTE FOR COFFEE. LON A. MCCOY, doing business as Red Seal Products Company, Akron, Ohio.
Filed March 30, 1922. Serial No. 161,497. PUBLISHED FEBRUARY 20, 1923.

168,335. SHORTENING COMPOUND. THE CUDAHY PACKING COMPANY, Chicago, Ill.
Filed March 22, 1922. Serial No. 161,031. PUBLISHED FEBRUARY 27, 1923.

168,336. MANUFACTURED FURS. BRANDENBURG & BRANDENBURG, New York, N. Y.
Filed March 21, 1922. Serial No. 160,993. PUBLISHED FEBRUARY 20, 1923.

168,337. VANITY CASES. A. SCHOCKET, New York, N. Y.
Filed January 28, 1922. Serial No. 158,585. PUBLISHED FEBRUARY 20, 1923.

168,338. BELTS FOR PERSONAL WEAR AND SHOES AND SLIPPERS. THE AMERICAN RUBBER & TIRE Co., Akron, Ohio.
Filed December 3, 1921. Serial No. 156,208. PUBLISHED FEBRUARY 20, 1923.

168,339. UMBRELLAS. THE PAPERBRELLA Co., New York, N. Y., assignors to Paperbrella Corporation, a Corporation of New York.
Filed November 21, 1921. Serial No. 155,697. PUBLISHED FEBRUARY 6, 1923.

168,340. PREPARATION FOR ECZEMA, TETTER, AND ITCH. CHARLEROI LABORATORIES INC., Charleroi, Pa.
Filed November 5, 1921. Serial No. 155,047. PUBLISHED FEBRUARY 20, 1923.

168,341. TONIC AND LAXATIVE TABLET. THE ALPHA CHEMICAL COMPANY, Springfield, Ohio.
Filed October 24, 1921. Serial No. 154,468. PUBLISHED FEBRUARY 20, 1923.

168,342. NONALCOHOLIC WITCH-HAZEL. THE SURGEONS SPECIALTY COMPANY, Cincinnati, Ohio.
Filed October 13, 1921. Serial No. 154,066. PUBLISHED FEBRUARY 20, 1923.

168,343. MACARONI, SPAGHETTI, NOODLES, AND SHORT PASTE STUFF. LIBERTY MACARONI MANUFACTURING CO., St. Louis, Mo.
Filed October 1, 1921. Serial No. 153,609. PUBLISHED FEBRUARY 27, 1923.

168,344. BLOUSES, DRESSES, SKIRTS, SUITS, AND SWEATERS. THE L. A. WOLIN COMPANY, Cleveland, Ohio.
Filed June 30, 1921. Serial No. 149,875. PUBLISHED FEBRUARY 13, 1923.

168,345. COOLING CONTAINERS FOR MAINTAINING THEIR CONTENTS COLD OR IN A FROZEN STATE DURING SHIPMENT OR STORAGE IN NEARLY THE SAME CONDITION AS WHEN PACKED. THE GLACIER COMPANY, Boston, Mass.
Filed May 21, 1921. Serial No. 148,023. PUBLISHED FEBRUARY 20, 1923.

168,346. CERTAIN NAMED MEDICINES. WORDEN GROCER COMPANY, Grand Rapids, Mich.
Filed March 28, 1921. Serial No. 145,375. PUBLISHED FEBRUARY 20, 1923.

168,347. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed August 18, 1920. Serial No. 136,241. PUBLISHED FEBRUARY 20, 1923.

168,348. SPECIAL PREPARED AGRICULTURAL SULPHUR. SAN FRANCISCO SULPHUR CO., San Francisco, Calif.
Filed June 30, 1920. Serial No. 134,438. PUBLISHED FEBRUARY 20, 1923.

168,349. GENERAL TONICS. PHILIP SCHIER, trading as Union Pharmacal Company, Kansas City, Mo.
Filed June 17, 1920. Serial No. 133,850. PUBLISHED FEBRUARY 20, 1923.

168,350. LADIES' AND CHILDREN'S CLOTHING. S. M. & R. CO. INC., Chicago, Ill.
Filed March 26, 1920. Serial No. 130,246. PUBLISHED APRIL 11, 1922.

168,351. YOUTHS' DRESS, NEGLIGEE, AND WORK SHIRTS. THE KAYNEE COMPANY, Cleveland, Ohio.
Filed December 18, 1919. Serial No. 126,223. PUBLISHED FEBRUARY 13, 1923.

168,352. HAMS, BACON, BUTTER, BUTTERINE, LARD, EDIBLE FATS, EGGS, POULTRY; FROZEN, CANNED, AND BARRELED BEEF AND LAMB AND PORK; POULTRY FOOD, AND MEAT EXTRACTS. QUEENSLAND MEAT EXPORT COMPANY, LIMITED, Brisbane, Queensland, Australia.
Filed September 6, 1919. Serial No. 122,405. PUBLISHED FEBRUARY 27, 1923.

168,353. WOMEN'S, MISSES', AND CHILDREN'S SHOES OF LEATHER. RUBIN SHOE CO., New York, N. Y.
Filed May 29, 1922. Serial No. 164,994. PUBLISHED MARCH 6, 1923.

168,354. FRESH APPLES. WESTERN NEW YORK FRUIT GROWERS' CO-OPERATIVE PACKING ASS'N, INC., Rochester, N. Y.
Filed July 5, 1922. Serial No. 166,518. PUBLISHED FEBRUARY 20, 1923.

168,355. CYLINDER AND AUTOMOBILE OIL FOR LUBRICATING PURPOSES. MARINE OIL COMPANY, LTD., New Orleans, La.
Filed July 1, 1922. Serial No. 166,384. PUBLISHED FEBRUARY 20, 1923.

168,356. HOSIERY. THE POWELL KNITTING COMPANY, Philadelphia, Pa.
Filed June 29, 1922. Serial No. 166,247. PUBLISHED FEBRUARY 20, 1923.

168,357. RUBBER TIRES AND TUBES. C. KENYON COMPANY, INC., Brooklyn, N. Y.
Filed June 23, 1922. Serial No. 165,960. PUBLISHED FEBRUARY 20, 1923.

168,358. GASOLINE, KEROSENE, NAPHTHA, LUBRICATING OIL, DISTILLATE GAS OIL, FUEL OIL, AND ROAD OIL. UNITED OIL COMPANY, Fort Dodge, Iowa.
Filed June 15, 1922. Serial No. 165,574. PUBLISHED FEBRUARY 20, 1923.

168,359. APPLES, PLUMS, CHERRIES, GRAPES, PEARS, AND PEACHES IN THEIR NATURAL STATE. FRANCIS M. WILSON, Williamstown, Mass.
Filed June 13, 1922. Serial No. 165,470. PUBLISHED FEBRUARY 20, 1923.

168,360. OLIVE OIL. PATRICIAN OLIVE OIL CORP., New York, N. Y.
Filed June 13, 1922. Serial No. 165,460. PUBLISHED FEBRUARY 13, 1923.

168,361. CANNED AND DEHYDRATED FRUITS AND CANNED AND DEHYDRATED VEGETABLES. KINGS FOOD PRODUCTS CO., Portland, Oreg.
Filed June 12, 1922. Serial No. 165,391. PUBLISHED FEBRUARY 27, 1923.

168,362. MALT SIRUPS FOR FOOD PURPOSES. POPEL-GILLER CO., Warsaw, Ill.
Filed June 12, 1922. Serial No. 165,412. PUBLISHED FEBRUARY 27, 1923.

168,363. FRESH CITROUS FRUITS AND FRESH DECIDUOUS FRUITS—VIZ, ORANGES, APRICOTS, CANTALOUPES, AND GRAPES; AND FRESH VEGETABLES—VIZ, TOMATOES. ROSARIO DI GIORGIO, Los Angeles, Calif.
Filed June 12, 1922. Serial No. 165,354. PUBLISHED FEBRUARY 27, 1923.

168,364. FOOD BEVERAGE MADE OF FRUITS, NUTS, AND GRAIN. BARTLETT NU PRODUCTS CORPORATION, Pasadena, Calif.
Filed June 3, 1922. Serial No. 164,987. PUBLISHED FEBRUARY 27, 1923.

168,365. CANNED VEGETABLES. SMITH-YINGLING Company, Westminster, Md.
Filed June 1, 1922. Serial No. 164,780. PUBLISHED FEBRUARY 27, 1923.

168,366. TALKING-MACHINE NEEDLES. H. J. WENGLEIN'S NORICA- & HEROLD-WERKE NÜRNBERG-SCHWABACHER NADELFABRIKEN G. M. B. H., Nuremberg, Germany.
Filed May 27, 1922. Serial No. 164,621. PUBLISHED FEBRUARY 20, 1923.

168,367. WORK SHIRTS, DRESS SHIRTS, OVERALLS, GARMENT SUPPORTERS—NAMELY, ARM BANDS, SUSPENDERS, AND MEN'S AND CHILDREN'S GARTERS. WASHINGTON MANUFACTURING CO., Nashville, Tenn.
Filed May 27, 1922. Serial No. 164,620. PUBLISHED FEBRUARY 13, 1923.

168,368. REMEDIAL COMPOUND ESPECIALLY HELPFUL IN THE TREATMENT OF ALL FORMS OF SKIN IRRITATION. WILLIAM L. PURCELL, Floral Park, N. Y.
Filed May 27, 1922. Serial No. 164,603. PUBLISHED OCTOBER 10, 1922.

168,369. WOMEN'S, MISSES', AND CHILDREN'S SHOES OF LEATHER. RUBIN SHOE CO., New York, N. Y.
Filed May 25, 1922. Serial No. 164,515. PUBLISHED FEBRUARY 27, 1923.

168,370. WHIPPED-CREAM CANDY. WALTER A. VELLGUTH, San Francisco, Calif.
Filed May 20, 1922. Serial No. 164,207. PUBLISHED JANUARY 16, 1923.

168,371. FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada.
Filed May 4, 1922. Serial No. 163,824. PUBLISHED FEBRUARY 13, 1923.

168,372. SPICES. QUALITY COFFEE & TEA CO., INC., Los Angeles, Calif.
Filed April 10, 1922. Serial No. 162,054. PUBLISHED FEBRUARY 20, 1923.

168,373. SHAMPOO SOAP IN CAKE FORM. GEO. A. SCHMIDT & CO., Chicago, Ill.
Filed August 31, 1922. Serial No. 168,943. PUBLISHED FEBRUARY 20, 1923.

168,374. CANNED FRUITS. OLYMPIA CANNING COMPANY, Olympia, Wash.
Filed September 5, 1922. Serial No. 169,076. PUBLISHED FEBRUARY 27, 1923.

168,375. CANNED FRUITS—NAMELY, PEACHES, PEARS, APRICOTS, APPLES; DRIED FRUITS—NAMELY, PRUNES, PEACHES, APRICOTS, RAISINS, AND MIXED DRIED FRUITS. GENERAL COMMERCIAL COMPANY, San Francisco, Calif.
Filed September 11, 1922. Serial No. 169,291. PUBLISHED FEBRUARY 27, 1923.

168,376. CANNED FRUITS—NAMELY, PEACHES, PEARS, APRICOTS, APPLES; DRIED FRUITS—NAMELY, PRUNES, PEACHES, APRICOTS, RAISINS, AND MIXED DRIED FRUITS. GENERAL COMMERCIAL COMPANY, San Francisco, Calif.
Filed September 11, 1922. Serial No. 169,292. PUBLISHED FEBRUARY 27, 1923.

168,377. FRESH GRAPES. SIERRA VISTA VINEYARD CORPORATION, San Francisco, Calif.
Filed September 11, 1922. Serial No. 169,329. PUBLISHED FEBRUARY 27, 1923.

168,378. BAKING POWDER. BEMENT-REA CO. INC., Terre Haute, Ind.
Filed September 13, 1922. Serial No. 169,393. PUBLISHED FEBRUARY 20, 1923.

168,379. COLLECTION BOXES. CENTRAL COMMITTEE KNESSETH ISRAEL, OF JERUSALEM, PALESTINE, INC., New York, N. Y.
Filed September 13, 1922. Serial No. 169,395. PUBLISHED FEBRUARY 20, 1923.

168,380. TOILET LOTION FOR DEODORIZING OFFENSIVE AND EXCESSIVE PERSPIRATION. HENRY BINGA DISMOND, doing business O-Do-Less Products Co., Danville, Ill.
Filed September 14, 1922. Serial No. 169,437. PUBLISHED FEBRUARY 20, 1923.

168,381. LAMP STANDARDS, FRUIT BOWLS, CANDLESTICKS, COMPORTS, CAKE AND BREAD TRAYS, AND VASES MADE OF OR PLATED WITH PRECIOUS METALS. SUPERIOR SILVER COMPANY, INC., Brooklyn, N. Y.
Filed September 14, 1922. Serial No. 169,466. PUBLISHED FEBRUARY 20, 1923.

168,382. HOSIERY. DREIFUS, ECKSTEIN & KING INC., New York, N. Y.
Filed September 15, 1922. Serial No. 169,475. PUBLISHED FEBRUARY 20, 1923.

168,383. BOXLIKE RECEPTACLES. HERBERT B. LOEB, Philadelphia, Pa.
Filed September 15, 1922. Serial No. 169,489. PUBLISHED FEBRUARY 20, 1923.

168,384. CERTAIN NAMED CONSTRUCTION MATERIALS. FRIES, BRALL & SHARP CO. INC., Washington, D. C.
Filed September 18, 1922. Serial No. 169,583. PUBLISHED FEBRUARY 13, 1923.

168,385. CLOTHING CONSISTING OF OUTING COATS, TROUSERS, VESTS, AND SUITS. INDIANAPOLIS TENT & AWNING COMPANY, Indianapolis, Ind.
Filed September 18, 1922. Serial No. 169,595. PUBLISHED FEBRUARY 20, 1923.

168,386. HOUSE FROCKS AND APRONS. THE MORGAN-ANDERSON COMPANY, doing business as "Dolly Dixie" M'f'g Company, Toledo, Ohio.
Filed September 18, 1922. Serial No. 169,602. PUBLISHED FEBRUARY 20, 1923.

168,387. LADIES' KNIT UNDERWEAR. CALIFORNIA UNDERWEAR AND HOSIERY MILLS, doing business as California Underwear Mills, Los Angeles, Calif.
Filed September 18, 1922. Serial No. 169,616. PUBLISHED FEBRUARY 20, 1923.

168,388. STICK CANDY. HENRY LOWENTHAL, doing business as Standard Mfg. Co., Memphis, Tenn.
Filed September 18, 1922. Serial No. 169,640. PUBLISHED FEBRUARY 27, 1923.

168,389. EXTRACTS FOR FOOD-FLAVORING PURPOSES FOR THE FOLLOWING FLAVORS: GRAPE, PEACH, APRICOT, PINEAPPLE, RASPBERRY, CURRANT, LOGANBERRY, STRAWBERRY, AND CHERRY. FOOTE & JENKS, Jackson, Mich
Filed September 23, 1922. Serial No. 169,850. PUBLISHED FEBRUARY 27, 1923.

168,390. SPORTING GOODS. THE JAMES W. BRINE COMPANY, Boston, Mass.
Filed September 25, 1922. Serial No. 169,886. PUBLISHED FEBRUARY 20, 1923.

168,391. LADIES' DRESSES, BUNGALOW APRONS, BATH ROBES, AND KIMONOS. HAMBURGER BROS., New York, N. Y.
Filed September 25, 1922. Serial No. 169,901 PUBLISHED FEBRUARY 13, 1923.

168,392. KNICKERBOCKERS AND SPORT, RIDING, AND GOLF TROUSERS. MAX B. BRUMMER & SON, INC., New York, N. Y.
Filed September 26, 1922. Serial No. 169,947. PUBLISHED FEBRUARY 20, 1923.

168,393. LINIMENT FOR GENERAL USE. THEODORE MONTCALM, Holyoke, Mass.
Filed November 10, 1922. Serial No. 171,813. PUBLISHED FEBRUARY 20, 1923.

168,394. AMMONIA. C. M. KIMBALL COMPANY, Winthrop, Mass.
Filed November 10, 1922. Serial No. 171,805. PUBLISHED FEBRUARY 20, 1923.

168,395. SESQUICARBONATE OF SODA. THE SOLVAY PROCESS COMPANY, Solvay, N. Y.
Filed November 9, 1922. Serial No. 171,768. PUBLISHED FEBRUARY 20, 1923.

168,396. MEDICINE FOR THE TREATMENT OF STOMACH, KIDNEY, AND LIVER DISEASES AND FOR AN OINTMENT FOR THE TREATMENT OF SKIN DISEASES. EDGAR S. VAWTER, Monroe, La.
Filed November 8, 1922. Serial No 171,746. PUBLISHED FEBRUARY 20, 1923.

168,397. ARCH SUPPORTERS. FEDERAL ARCH-LIFT MANUFACTURING COMPANY, Boston, Mass.
Filed November 8, 1922. Serial No. 171,731 PUBLISHED FEBRUARY 20, 1923.

168,398. WIRE ROPES. WATERBURY COMPANY, New York, N. Y.
Filed November 6, 1922. Serial No. 171,675. PUBLISHED FEBRUARY 20, 1923.

168,399. WIRE ROPES. WATERBURY COMPANY, New York, N. Y.
Filed November 6, 1922. Serial No. 171,674. PUBLISHED FEBRUARY 20, 1923.

168,400. SOFT DRINK. UNITED CIGAR STORES COMPANY OF AMERICA, Jersey City, N. J., and New York, N. Y., assignor to United Retail Chemists Corporation, New York, N. Y., a Corporation of New York.
Filed November 6, 1922. Serial No. 171,672. PUBLISHED FEBRUARY 20, 1923.

168,401. BATH SALT. THE SEA-DIP COMPANY, St. Louis, Mo.
Filed November 6, 1922. Serial No. 171,659. PUBLISHED FEBRUARY 20, 1923.

168,402. SOAP. THE REMMERS SOAP COMPANY, Cincinnati, Ohio.
Filed November 3, 1922. Serial No. 171,551. PUBLISHED FEBRUARY 20, 1923.

168,403. WOOL RUGS. PHILADELPHIA RUG MILLS, INC., Philadelphia, Pa.
Filed November 3, 1922. Serial No. 171,549. PUBLISHED FEBRUARY 20, 1923.

168,404. HAIR RESTORER AND TONIC. R. H. MACY & Co. INC., New York, N. Y.
Filed November 3, 1922. Serial No. 171,542. PUBLISHED FEBRUARY 20, 1923.

168,405. WASHING AND IRONING MACHINES. THE RUSS MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 1, 1922. Serial No. 171,472. PUBLISHED FEBRUARY 20, 1923.

168,406. HAIR TONIC. VIOLET V. WILLIAMS, Berkeley, Calif.
Filed October 31, 1922. Serial No. 171,438. PUBLISHED FEBRUARY 20, 1923.

168,407. CATHARTIC AND LAXATIVE PREPARATION. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed November 1, 1922. Serial No. 171,441. PUBLISHED FEBRUARY 20, 1923.

168,408. MOUTH HARMONICAS. M. HOHNER, New York, N. Y.
Filed October 31, 1922. Serial No. 171,421. PUBLISHED FEBRUARY 20, 1923.

168,409. MOUTH HARMONICAS. M. HOHNER, New York, N. Y.
Filed October 31, 1922. Serial No. 171,420. PUBLISHED FEBRUARY 20, 1923.

168,410. DEODORANTS. ELMO, INC., Philadelphia, Pa.
Filed October 30, 1922. Serial No. 171,352. PUBLISHED FEBRUARY 20, 1923.

168,411. HAIR DRESSING. THE JERICO CO., Brooklyn, N. Y.
Filed October 28, 1922. Serial No. 171,324. PUBLISHED FEBRUARY 20, 1923.

168,412. OINTMENT FOR CERTAIN NAMED AILMENTS. LEWIS KEMP STRAIN, doing business as Pneumocol Company, Dayton, Ohio.
Filed November 10, 1922. Serial No. 171,822. PUBLISHED FEBRUARY 20, 1923.

168,413. CLOCKS. AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md.
Filed December 2, 1922. Serial No. 172,819. PUBLISHED FEBRUARY 20, 1923.

168,414. ELECTRICAL RESISTANCES. POST-GLOVER ELECTRIC COMPANY, Cincinnati, Ohio.
Filed December 1, 1922. Serial No. 172,764. PUBLISHED FEBRUARY 20, 1923.

168,415. CARD GAME. ANNA L. R. JOHNSON, doing business as Plaskul Game Company, Marietta, Minn.
Filed December 1, 1922. Serial No. 172,746. PUBLISHED FEBRUARY 20, 1923.

168,416. SYRINGES. FREDERICK PFEIFFER & Co. INC., New York, N. Y.
Filed November 29, 1922. Serial No. 172,685. PUBLISHED FEBRUARY 20, 1923.

168,417. ELECTRICALLY-OPERATED HAIR DRIERS; TOASTERS, AND WAFFLE IRONS. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn.
Filed November 27, 1922. Serial No. 172,591. PUBLISHED FEBRUARY 20, 1923.

168,418. ELECTRICALLY-OPERATED VIBRATORS. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn.
Filed November 27, 1922. Serial No. 172,590. PUBLISHED FEBRUARY 20, 1923.

168,419. BOND, LEDGER, AND WRITING PAPER, BOTH PLAIN AND WATERMARKED. POLAND PAPER COMPANY, Mechanic Falls, Me.
Filed November 24, 1922. Serial No. 172,489. PUBLISHED FEBRUARY 6, 1923.

168,420. WASHING COMPOUNDS IN POWDERED FORM. CHARLES A. WINTER, doing business as Duds Co., New York, N. Y.
Filed November 24, 1922. Serial No. 172,500. PUBLISHED FEBRUARY 20, 1923.

168,421. SOFT DRINK. NATHAN K. ROSS, Silvis, Ill.
Filed November 23, 1922. Serial No. 172,441. PUBLISHED FEBRUARY 20, 1923.

168,422. ELECTRICAL APPARATUS AND EQUIPMENT—NAMELY, RHEOSTATS. MALONE-LEMMON LABORATORIES, New York, N. Y.
Filed November 23, 1922. Serial No. 172,424. PUBLISHED FEBRUARY 20, 1923.

168,423. PIANOS AND PHONOGRAPHS. MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed November 22, 1922. Serial No. 172,385. PUBLISHED FEBRUARY 20, 1923.

168,424. EXPLOSIVE USED LARGELY IN SHOOTING OIL WELLS. THE CHESNEY EXPLOSIVE COMPANY, Marietta, Ohio.
Filed November 22, 1922. Serial No. 172,371. PUBLISHED FEBRUARY 20, 1923.

168,425. [WITHDRAWN.]

168,426. TYPEWRITER RIBBONS AND CARBON PAPER. COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y.
Filed November 21, 1922. Serial No. 172,320. PUBLISHED FEBRUARY 20, 1923.

168,427. PLANT FOOD. T. W. WOOD & SONS, Richmond, Va.
Filed November 18, 1922. Serial No. 172,251. PUBLISHED FEBRUARY 20, 1923.

168,428. BAGGAGE AND POCKETBOOKS. CALHOUN, ROBBINS & CO., New York, N. Y.
Filed November 18, 1922. Serial No. 172,204. PUBLISHED FEBRUARY 20, 1923.

168,429. SOAP AND SOAP CREAM AND PASTE. TARRATINE MANUFACTURING CO., INC., Bagor, Me.
Filed November 17, 1922. Serial No. 172,189. PUBLISHED FEBRUARY 20, 1923.

168,430. BEDCLOTHES PROTECTOR. EVA J. MCKINNEY, doing business as McKinney Manufacturing Co., Clinton, Ill.
Filed November 14, 1922. Serial No. 172,003. PUBLISHED FEBRUARY 20, 1923.

168,431. RADIO APPARATUS. VICTOR RADIO CORPORATION, New York, N. Y.
Filed November 16, 1922. Serial No. 172,137. PUBLISHED FEBRUARY 20, 1923.

168,432. CIGARETTES. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed November 14, 1922. Serial No. 171,962. PUBLISHED FEBRUARY 20, 1923.

168,433. COTTON PIECE GOODS. RIDLEY WATTS & Co., New York, N. Y.
Filed October 25, 1922. Serial No. 171,190. PUBLISHED FEBRUARY 20, 1923.

168,434. SALVES OR OINTMENTS AND MEDICINAL OILS. EDWARD BENTON KNIGHT, doing business as E. Ben Knight, Penn Yan, N. Y.
Filed October 25, 1922. Serial No. 171,176. PUBLISHED FEBRUARY 20, 1923.

168,435. MATCHES. THE STANDARD MATCH CO. LIMITED, Hempsted, England.
Filed October 21, 1922. Serial No. 171,045. PUBLISHED FEBRUARY 20, 1923.

168,436. RADIATOR CEMENT. ANA D. STARR, doing business as Starr Specialty Co., Tower City, N. Dak.
Filed October 21, 1922. Serial No. 171,044. PUBLISHED FEBRUARY 20, 1923.

168,437. PERFUMES, TOILET WATERS, FACE POWDERS, TALCUM POWDERS, SACHET POWDERS, LOTION FOR THE SKIN AND HAIR, ROUGE, AND BRILLIANTINE. SOCIETE ANONYME PARFUMERIE VIOLET, Paris, France.
Filed October 21, 1922. Serial No. 171,042. PUBLISHED FEBRUARY 20, 1923.

168,438. TEXTILE WASH CLOTH AND TOWEL. EMBOURG TEXTILE CO. INC., New York, N. Y.
Filed October 21, 1922. Serial No. 171,013. PUBLISHED FEBRUARY 20, 1923.

168,439. MOUTH WASH. F. W. SCHOONMAKER INC., New York, N. Y.
Filed October 20, 1922. Serial No. 170,994. PUBLISHED FEBRUARY 20, 1923.

168,440. WASHING MACHINES FOR THE WASHING OF DISHES, BOTTLES, AND ARTICLES OTHER THAN CLOTHES. FASPRAY CORPORATION, Dover, Del., and New York, N. Y.
Filed October 20, 1922. Serial No. 170,974. PUBLISHED FEBRUARY 20, 1923.

168,441. WATERPROOF INK IN PASTE FORM USED FOR STENCILING. EMIL ENZLER, New York, N. Y.
Filed October 17, 1922. Serial No. 170,813. PUBLISHED FEBRUARY 20, 1923.

168,442. GASOLINE STRAINERS FOR INTERNAL-COMBUSTION ENGINES. MILE-O-MORE COMPANY, Spokane, Wash.
Filed October 12, 1922. Serial No. 170,659. PUBLISHED FEBRUARY 20, 1923.

168,443. PEARLS. NATHAN L. BLAUSTON, doing business as Marie Antoinette Perle Co., New York, N. Y.
Filed October 12, 1922. Serial No. 170,614. PUBLISHED FEBRUARY 20, 1923.

168,444. HAIR TONIC. LOUIS PHILIPPE, New York, N. Y.
Filed October 10, 1922. Serial No. 170,541. PUBLISHED FEBRUARY 20, 1923.

168,445. PREPARATION FOR ECZEMA, SALT RHEUM, IMPETIGO, BARBERS' ITCH AND OTHER SKIN DISEASES, AND FOR HEALING PURPOSES. THE NOLAN CO., Greenville, Pa.
Filed October 10, 1922. Serial No. 170,535. PUBLISHED FEBRUARY 20, 1923.

168,446. A FEATURE IN A NEWSPAPER. PUBLIC LEDGER COMPANY, Philadelphia, Pa.
Filed October 9, 1922. Serial No. 170,505. PUBLISHED FEBRUARY 20, 1923.

168,447. PHARMACEUTICAL PRODUCT FOR CERTAIN NAMED PURPOSES. LAVINIA A. MARSH, doing business under the name and style of E. Morgan & Sons, Providence, R. I.
Filed October 9, 1922. Serial No. 170,500. PUBLISHED FEBRUARY 20, 1923.

168,448. MEDICAL PREPARATION FOR USE IN THE TREATMENT OF HIGH BLOOD PRESSURE. J. V. MCFARLAND, Rutherfordton, N. C.
Filed October 9, 1922. Serial No. 170,494. PUBLISHED FEBRUARY 20, 1923.

168,449. GRANULATED EFFERVESCING COMPOUNDS USED AS BLOOD SALTS. ROBERT A. B. HATCH, doing business as Normasal Chemical Co., San Diego, Calif.
Filed October 4, 1922. Serial No. 170,291. PUBLISHED FEBRUARY 20, 1923.

168,450. LIME FOR PLASTERING OR BUILDING PURPOSES. THE NATIONAL LIME & STONE COMPANY, Carey, Ohio.
Filed October 2, 1922. Serial No. 170,207. PUBLISHED JANUARY 30, 1923.

168,451. KNICKERBOCKERS FOR MEN, WOMEN, AND CHILDREN. MORRIS HOFFMAN COMPANY, St. Louis, Mo.
Filed October 2, 1922. Serial No. 170,192. PUBLISHED FEBRUARY 20, 1923.

168,452. HOSIERY. LASKIN-SWATT CO., El Paso, Tex.
Filed September 30, 1922. Serial No. 170,144. PUBLISHED FEBRUARY 20, 1923.

168,453. LUBRICATING OILS. GILMORE PETROLEUM COMPANY, Los Angeles, Calif.
Filed December 21, 1922. Serial No. 173,634. PUBLISHED FEBRUARY 20, 1923.

168,454. CLOTH MAILING BAGS. AMERICAN SACK Co., Chicago, Ill.
Filed December 30, 1922. Serial No. 173,991. PUBLISHED FEBRUARY 27, 1923.

168,455. DRIER FOR PAINTS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 19, 1922. Serial No. 173,581. PUBLISHED FEBRUARY 20, 1923.

168,456. BRIDGE SCORE CARDS. ARCHIBALD L. TROWBRIDGE, Detroit, Mich.
Filed December 16, 1922. Serial No. 173,452. PUBLISHED FEBRUARY 20, 1923.

168,457. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed December 16, 1922. Serial No. 173,423. PUBLISHED FEBRUARY 20, 1923.

168,458. SOFT DRINKS. COUNTRY CLUB SODA CO., INC., Springfield, Mass.
Filed December 16, 1922. Serial No. 173,406. PUBLISHED FEBRUARY 20, 1923.

168,459. TWINE AND HOUSEHOLD CORD. THE PROVIDENCE PAPER CO., Providence, R. I.
Filed December 15, 1922. Serial No. 173,363. PUBLISHED FEBRUARY 20, 1923.

168,460. COTTON PIECE GOODS. HYMAN BAUMAN & Co., New York, N. Y.
Filed December 13, 1922. Serial No. 173,275. PUBLISHED FEBRUARY 20, 1923.

168,461. FISH BAITS OR LURES. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed December 11, 1922. Serial No. 173,191. PUBLISHED FEBRUARY 20, 1923.

168,462. LAMP CORD. TREBOR MANUFACTURING CO., New York, N. Y.
Filed December 7, 1922. Serial No. 173,056. PUBLISHED FEBRUARY 20, 1923.

168,463. PUTTY. ALLEN PAINT & PUTTY WORKS, Chicago, Ill.
Filed December 6, 1922. Serial No. 172,969. PUBLISHED FEBRUARY 20, 1923.

168,464. PUTTY. ALLEN PAINT & PUTTY WORKS, Chicago, Ill.
Filed December 6, 1922. Serial No. 172,968. PUBLISHED FEBRUARY 20, 1923.

168,465. COAL, WOOD, GAS, AND OIL HEATING FURNACES, GRATE FRAMES, GRATE BARS, GRATE-BAR LEVERS. HALL-NEAL FURNACE COMPANY, Indianapolis, Ind.
Filed February 21, 1921. Serial No. 143,864. PUBLISHED JULY 12, 1921.

168,466. PORTIONS OF FRESH WATERMELON FOR INDIVIDUAL USE. F. L. PURVIS, San Bernardino, Calif.
Filed July 10, 1922. Serial No. 166,711. PUBLISHED FEBRUARY 27, 1923.

168,467. MEN'S OVERCOATS, TROUSERS, AND SUITS FOR OUTER WEAR. THE I. & S. BING COMPANY, Cincinnati, Ohio.
Filed July 19, 1922. Serial No. 167,068. PUBLISHED FEBRUARY 20, 1923.

168,468. CANNED HUNGARIAN GOULASH. JOSEPH G. WURM, New York, N. Y.
Filed July 22, 1922. Serial No. 167,278. PUBLISHED FEBRUARY 27, 1923.

168,469. FRESH GRAPES. E. E. MORSE, Lodi, Calif.
Filed July 24, 1922. Serial No. 167,307. PUBLISHED FEBRUARY 27, 1923.

168,470. MAYONNAISE DRESSING. HENRY A. ORTHMANN, Brooklyn, N. Y.
Filed July 29, 1922. Serial No. 167,582. PUBLISHED FEBRUARY 13, 1923.

168,471. FOOD-FLAVORING EXTRACTS. WILLIAM F. PEACOCK, doing business as The United Food Products Company, Portland, Me.
Filed August 2, 1922. Serial No. 167,735. PUBLISHED FEBRUARY 27, 1923.

168,472. MIRROR GLASS AND PLATE GLASS FOR MIRRORS AND ART PURPOSES. THE HAGEMANN GLASS CO., Cincinnati, Ohio.
Filed August 7, 1922. Serial No. 167,872. PUBLISHED FEBRUARY 20, 1923.

168,473. VARNISHES. MARTIN VARNISH COMPANY, Chicago, Ill.
Filed August 7, 1922. Serial No. 167,882. PUBLISHED FEBRUARY 20, 1923.

168,474. WASHES FOR CLEANING TYPE AND SUCH LIKE GOODS. AMERICAN STEEL CHASE CO., New York, N. Y.
Filed August 9, 1922. Serial No. 167,969. PUBLISHED FEBRUARY 20, 1923.

168,475. CANNED VEGETABLES. THE WAUPUN CANNING CO., Waupun, Wis.
Filed August 11, 1922. Serial No. 168,134. PUBLISHED FEBRUARY 20, 1923.

168,476. SOFT DRINK CONCENTRATE. MERVINE MFG. CO. INC., Wilmington, Del., and Stroudsburg, Pa.
Filed August 12, 1922. Serial No. 168,160. PUBLISHED FEBRUARY 20, 1923.

168,477. READY-MIXED, PASTE, SEMIPASTE, AND DRY PAINTS; VARNISHES, ENAMELS, COLORS, DRIERS, AND MIXING OILS. WM. B. WHEELER, Chicago, Ill.
Filed August 14, 1922. Serial No. 168,232. PUBLISHED FEBRUARY 20, 1923.

168,478. DRESSING FOR SALADS AND SANDWICHES. FRITZ HEIM & SON, Utica, N. Y.
Filed August 15, 1922. Serial No. 168,262. PUBLISHED FEBRUARY 20, 1923.

168,479. FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES. WILLIAM RUFUS PARVIN, doing business as W. R. Parvin Co., Ogden, Utah.
Filed August 17, 1922. Serial No. 168,373. PUBLISHED FEBRUARY 20, 1923.

168,480. CANNED FRUITS. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 18, 1922. Serial No. 168,419. PUBLISHED FEBRUARY 20, 1923.

168,481. CASTERS. FAULTLESS CASTER CO., Evansville, Ind.
Filed August 19, 1922. Serial No. 168,463. PUBLISHED FEBRUARY 20, 1923.

168,482. FABRIC BELTING. MAXTIC BELT & PACKING CO., Wellesley Hills, Mass.
Filed August 19, 1922. Serial No. 168,479. PUBLISHED FEBRUARY 20, 1923.

168,483. CANNED SALMON. SEA COAST PACKING CO., Seattle, Wash.
Filed August 24, 1922. Serial No. 168,646. PUBLISHED FEBRUARY 20, 1923.

168,484. COCONUT-OIL SHAMPOO. BROCK-CARLSON LABORATORIES, INC., Minneapolis, Minn.
Filed August 28, 1922. Serial No. 168,752. PUBLISHED FEBRUARY 20, 1923.

168,485. CIGARETTE HOLDERS. FEDCO SALES COMPANY, Jersey City, N. J.
Filed August 28, 1922. Serial No. 168,760. PUBLISHED FEBRUARY 20, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

168,486. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) THE WHITLOCK COIL PIPE COMPANY, West Hartford, Conn. Filed Feb. 16, 1922. Serial No. 159,451.

SURE HOT

Particular description of goods.—Water Heaters Heated by Hot Air, Gas, Hot Water, and Steam.
Claims use since at least Sept. 15, 1921.

168,487. (CLASS 39. CLOTHING.) SAUL GELARIE, doing business as Clairtex Knitting Company, Brooklyn, N. Y. Filed Sept. 2, 1922. Serial No. 169,013.

SADL-SEAT

Particular description of goods.—Bloomers.
Claims use since Oct. 10, 1921.

168,488. (CLASS 33. GLASSWARE.) THE OWENS BOTTLE COMPANY, Toledo, Ohio. Filed Apr. 2, 1923. Serial No. 178,462.

HANDY SERVICE

Particular description of goods.—Package of Sterilized Glass Bottles.
Claims use since Mar. 10, 1922.

168,489. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PARKER-BROWNE COMPANY, Fort Worth, Tex. Filed Mar. 30, 1923. Serial No. 178,355.

PARKER'S Root Beer

Particular description of goods.—Root Beer.
Claims use since March, 1908.

168,490. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PETER J. MAHAN, Philadelphia, Pa. Filed Mar. 13, 1923. Serial No. 177,396.

HOLDFAST

Particular description of goods.—Truss.
Claims use since December, 1921.

168,491. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) E. J. MCCORMICK RUBBER CO., Lodi, N. J. Filed Mar. 10, 1923. Serial No. 177,236.

BLEEDED PINK

Particular description of goods.—Rubber for Use in Making Dental Plates.
Claims use since Oct. 1, 1921.

168,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KNIGHT PACKING COMPANY, Portland, Oreg. Filed Feb. 17, 1923. Serial No. 176,194.

KNIGHT'S ROGUE RIVER

Particular description of goods.—Tomato Catchup and Puree, and Chili Sauce.
Claims use since Oct. 1, 1918.

168,493. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 6, 1923. Serial No. 175,622.

"STATLER"

Particular description of goods.—Men's Traveling Bags.
Claims use since Jan. 1, 1920.

168,494. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 6, 1923. Serial No. 175,621.

"LADY STATLER"

Particular description of goods.—Women's Traveling Bags.
Claims use since Jan. 1, 1920.

168,495. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,471.

POUDRE DE SOIR

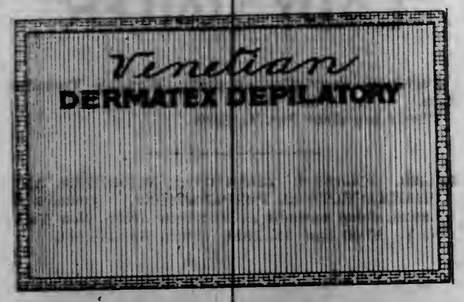
The lining on the drawing indicates yellow color for the border, pink color for the ground within the border, and purple for the lettering.
Particular description of goods.—Powder, Rouge, and Lip Sticks.
Claims use since Aug. 8, 1916.

168,496. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,468.

Venetian BLEACHINE CREAM

The drawing is lined to indicate yellow color for the border and the words "Bleachine Cream" and pink color for the ground space inclosed within the border.
Particular description of goods.—Face Cream.
Claims use since Aug. 8, 1916.

168,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,466.



The drawing is lined to indicate yellow color for the border and the words "Dermatex Depilatory" and pink for the ground within the border.

Particular description of goods.—Depilatories.
Claims use since Aug. 8, 1916.

168,498. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,465.

Venetian

Particular description of goods.—Skin-Cleansing Cream.
Claims use since Aug. 8, 1916.

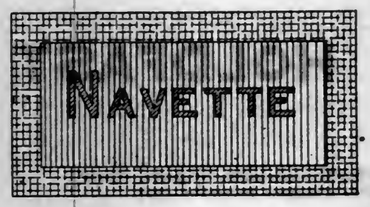
168,499. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,464.



The lining of the border and the words "Creme Glacier" in the drawing indicates yellow color, while the ground within the border is lined to indicate pink color.

Particular description of goods.—Nail Polish and Hand Cream.
Claims use since Aug. 8, 1916.

168,500. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,461.



The drawing is lined for yellow color for the border, purple for the letters, and pink for the ground within the border.

Particular description of goods.—Rouge and Powder.
Claims use since Aug. 8, 1916.

168,501. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923. Serial No. 174,460.



The drawing is lined to indicate yellow color for the border and letters and purple for the ground within the border.

Particular description of goods.—Powder, Rouge, and Lip Sticks.
Claims use since Aug. 8, 1916.

168,502. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ABRAHAM P. LOESBERG, New York, N. Y. Filed Jan. 6, 1923. Serial No. 174,252.

TOOTH-E-NAMEL

Particular description of goods.—A Tooth Enamel Applied to the Outer Surface of Teeth to Whiten and Improve Their Appearance.
Claims use since Jan. 1, 1921.

168,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AARON KOSORSKY, doing business as Hudson Bay Fur Company, New York, N. Y. Filed Dec. 26, 1922. Serial No. 173,836.

Hudson Seal

Particular description of goods.—Chemical Dye for Furs.
Claims use since 1912.

168,504. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Oct. 25, 1922. Serial No. 171,153.



Particular description of goods.—Foot-Warming Plasters.
Claims use since 1886.

168,505. (CLASS 46. FOODS AND INGRODIENTS OF FOODS.) R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922. Serial No. 166,305.

ALWAYS BEST

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Nov. 1, 1921.

168,506. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed June 14, 1922. Serial No. 165,482.

OLD ENGLISH

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Paint Enamels.
Claims use since Sept. 15, 1913.

168,507. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MOCHAR LEATHER GOODS CORPORATION, New York, N. Y. Filed Apr. 28, 1922. Serial No. 163,047.



Particular description of goods.—Portfolios.
Claims use since Mar. 25, 1922.

168,508. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HOCHSCHILD, KOHN & CO., INC., Baltimore, Md. Filed May 6, 1922. Serial No. 163,445.



Particular description of goods.—Arch Supports and Elastic Bandages.
Claims use since Mar. 20, 1922.

168,509. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUSSMAN, WORMSER & CO., San Francisco, Calif. Filed Nov. 3, 1922. Serial No. 171,556.

BABY KERNEL

Particular description of goods.—Canned Corn.
Claims use since on or about May 17, 1919.

168,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES ELBERT HOFFMAN, Philadelphia, Pa. Filed Nov. 25, 1922. Serial No. 172,535.

TUBULE

Particular description of goods.—Mercurox Used in the Treatment of Trachoma.
Claims use since May 15, 1921.

168,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JESSE GUY MUNSELL, doing business as Munsell's School of Health and as Munsell's Supply Co., Lincoln, Nebr. Filed Nov. 28, 1922. Serial No. 172,646.

MINERAL FOOD

Particular description of goods.—Blood Stream Tonics.
Claims use since Mar. 1, 1921.

168,512. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922. Serial No. 173,484.

QUIK-PACH

Particular description of goods.—Fire Brick, Fire-Brick Patching Material, and Plastic Furnace Lining.
Claims use since Aug. 26, 1922.

168,513. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) ELGIN R. PARKER, doing business as Merit Manufacturing Co., Los Angeles, Calif. Filed Dec. 22, 1922. Serial No. 173,718.

MERIT

Particular description of goods.—Water Heaters Using Gas as a Fuel.
Claims use since June 1, 1921.

168,514. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELDRIDGE H. WARD, doing business as Ward's Fudge Shop, Fort Worth, Tex. Filed Dec. 23, 1922. Serial No. 173,796.

WARD'S FAMOUS

Particular description of goods.—Candies.
Claims use since April, 1919.

168,515. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ABRAHAM M. MALOUF, New York, N. Y. Filed Dec. 26, 1922. Serial No. 173,842.

SANITARY

Particular description of goods.—Poultry Fountains.
Claims use for not less than one year.

168,516. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) J. A. SEXAUER MFG. CO. INC., New York, N. Y. Filed Dec. 30, 1922. Serial No. 174,036.

MAKE THE TIGHT LINE STAY

Particular description of goods.—Fire-Pot Repair Parts Consisting of Coil Cups, Coil with Wire and Shields, Wire for Coil Used as a Strainer in Furnace Coil of Plumber's Fire Pot in Ready-Cut Lengths as Repair Parts for Fire Pots, Fiber Candle Wicking, Top Plates, Burners, and Uprights and Air Valves for Steam-Heating Systems.
Claims use for not less than one year.

168,517. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) COLEMAN LAMP CO., Wichita, Kans. Filed Jan. 5, 1923. Serial No. 174,197.

Coleman

Particular description of goods.—Portable Gasoline Lamps and Lanterns, Gasoline Hollow-Wire Lighting Plants and Fixtures, Gasoline Pressure Stoves, Rag Mantles for Gas and Gasoline Lighting Devices, Gasoline Urn Burners; Portable Gasoline Heating Plants, Comprising Fuel Tank, Pump, Generator, Burner, and Other Necessary Parts Known as "Handy Gas Plant," and Parts for and Accessories to the Foregoing Articles.
Claims use since on or about the following dates: Plants and fixtures, since Jan. 1, 1902; on urn burners since Jan. 1, 1907; on mantles since Jan. 1, 1914; on lamps and lanterns since Jan. 1, 1915; on heating plants since Sept. 1, 1921, and on pressure stoves since Jan. 1, 1922.

168,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERSHEY CHOCOLATE COMPANY, Hershey, Pa. Filed Feb. 13, 1923. Serial No. 175,988.

HERSHEY'S

Particular description of goods.—Chewing Gum.
Claims use since about May 14, 1915.

168,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CENTAUR COMPANY, New York, N. Y. Filed Jan. 13, 1923. Serial No. 174,552.



Particular description of goods.—Vegetable Preparation for Assimilating the Food by Regulating the Stomach and Bowels of Infants and Children, Thereby Promoting Digestion, Cheerfulness, and Rest, and a Helpful Remedy for Constipation and Diarrhea and Feverishness and Loss of Sleep Resulting Therefrom in Infancy.
Claims use since Dec. 31, 1878.

168,520. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WESTERN RUBBER COMPANY, Tacoma, Wash. Filed Nov. 5, 1920. Serial No. 139,289.

SOUND

Particular description of goods.—Solid and Pneumatic Rubber and Fabric Automobile Tires.
Claims use since Aug. 1, 1920.

168,521. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) SUCCESS HEATER AND MANUFACTURING COMPANY, Des Moines, Iowa. Filed July 5, 1921. Serial No. 150,034.

LIFE-SAVER
PIPELESS HEATER

Particular description of goods.—Warm-Air Heaters and Furnaces.
Claims use since January, 1919.

168,522. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) KLEARFLAX LINEN RUG COMPANY, Duluth, Minn. Filed Nov. 14, 1921. Serial No. 155,351.



Particular description of goods.—Corner Attachments for Rugs and the Like to Prevent Slipping.
Claims use since Oct. 10, 1921.

168,523. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PEERLESS BELTING COMPANY, Gardenville, N. Y. Filed Feb. 20, 1922. Serial No. 159,607.

KOTTON-HYDE

Particular description of goods.—Leather and Cotton Belting.
Claims use since Feb. 1, 1921.

168,524. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PEERLESS BELTING COMPANY, Gardenville, N. Y. Filed Feb. 20, 1922. Serial No. 159,610.

PEERLESS-REBUILT

Particular description of goods.—Leather and Cotton Belting.
Claims use since Feb. 1, 1921.

168,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANS PAUL HANSEN, Donna, Tex. Filed Mar. 22, 1922. Serial No. 161,101.



Particular description of goods.—Fresh Citrous Fruit.
Claims use since Dec. 15, 1921.

168,526. (CLASS 12. CONSTRUCTION MATERIALS.) APCO ASPHALT ROOFING CO., New York, N. Y. Filed May 4, 1922. Serial No. 163,802.

SUNSET

Particular description of goods.—Asphalt Roofing.
Claims use since on or about Mar. 15, 1922.

168,527. (CLASS 39. CLOTHING.) EATON RAPIDS WOOLEN MILLS, Eaton Rapids, Mich. Filed June 2, 1922. Serial No. 164,877.

Allcoat

Particular description of goods.—Coats for Men, Women, and Children.
Claims use since Mar. 24, 1922.

168,528. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) DAISON MANUFACTURING CO. INC., Philadelphia, Pa. Filed June 10, 1922. Serial No. 165,277.

GLACE'

Particular description of goods.—Lamp Shades Made of Fabric.
Claims use since November, 1918.

168,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA FRUIT SELLING COMPANY, San Francisco, Calif. Filed June 12, 1922. Serial No. 165,347.

BERKELEY

Particular description of goods.—Dried Fruits and Canned Fruits.
Claims use since May 28, 1913.

168,530. (CLASS 39. CLOTHING.) MANNE & WEILL, New York, N. Y. Filed Aug. 17, 1922. Serial No. 168,370.

Maidwell
LEATHER WEAVE

Particular description of goods.—Fabric Gloves.
Claims use since January, 1919.

168,531. (CLASS 37. PAPER AND STATIONERY.) COLLINS MFG. CO., Holyoke, Mass. Filed Aug. 29, 1922. Serial No. 168,825.

ARKWRIGHT

Particular description of goods.—Ledger Writing and Printing Paper.
Claims use since March, 1917.

168,532. (CLASS 37. PAPER AND STATIONERY.) COLLINS MFG. CO., Holyoke, Mass. Filed Aug. 29, 1922. Serial No. 168,828.

NEWPORT

Particular description of goods.—Ledger Writing and Printing Paper.
Claims use since March, 1917.

168,533. (CLASS 37. PAPER AND STATIONERY.) COLLINS MFG. CO., Holyoke, Mass. Filed Aug. 29, 1922. Serial No. 168,834.

COLLINS
LINEN LEDGER

Particular description of goods.—Ledger Writing and Printing Paper.
Claims use since March, 1919.

168,534. (CLASS 37. PAPER AND STATIONERY.) COLLINS MFG. CO., Holyoke, Mass. Filed Aug. 29, 1922. Serial No. 168,835.

PREFERENCE

Particular description of goods.—Bond Writing and Printing Paper.
Claims use since March, 1917.

168,535. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Sept. 5, 1922. Serial No. 169,079.

Thurston
BRAND

Particular description of goods.—Canned Fruits.
Claims use since Apr. 28, 1917.

168,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY P. BALDWIN, LTD., doing business as the Baldwin Packers, Lahaina, Territory of Hawaii. Filed Sept. 18, 1922. Serial No. 169,613.

UNUSUAL

Particular description of goods.—Canned Pineapple.
Claims use since Mar. 11, 1922.

168,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEVENS-ETTER, San Antonio, Tex. Filed Sept. 18, 1922. Serial No. 169,658.

Dulce
Mexicano

Particular description of goods.—Candy.
Claims use since Sept. 1, 1921.

LABELS

REGISTERED MAY 22, 1923.

25,949.—*Title:* SUNSET. For Goods for Sacks Containing Salt. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans. Published November 1, 1922.

25,950.—*Title:* CAMEL. For Battery Solution. CAMEL CHEMICAL CO., INC., Portland, Oreg. Published February 23, 1923.

25,951.—*Title:* BIG CHEF. For Canned Shrimp. HERBERT NEWTON COOK, New Orleans, La. Published January 24, 1923.

25,952.—*Title:* DUNHAM'S SHAMPOO. For Shampoo for Cleansing and Soothing the Scalp. GRANVILLE A. DUNHAM, Kansas City, Mo. Published March 15, 1923.

25,953.—*Title:* THE SWEET HEART OF FLOWERS. For Honey Butter. THE FOSTER HONEY AND MERCANTILE COMPANY, Boulder, Colo. Published March 30, 1923.

25,954.—*Title:* QUALITY FABRICS. For Quality Fabrics of Cotton Duck and Dyed, Printed, and Painted Cotton Fabrics. FOSTER & STEWART COMPANY, New York, N. Y. Published February 15, 1923.

25,955.—*Title:* FREIHOFER'S FINE BREAD. For Goods for Bread. WM. FREIHOFER BAKING CO., Philadelphia, Pa. Published February 15, 1923.

25,956.—*Title:* GENTRY'S HIGH-GRADE CHILI POWDER. For Chili Powder. C. B. GENTRY CHILI POWDER CO., Los Angeles, Calif. Published August 15, 1923.

25,957.—*Title:* WYRICK. For Ginger Ale. CHARLES F. HAGAN, doing business as Wyrick Spring Company, Inc., Crockett, Va. Published January 2, 1923.

25,958.—*Title:* BEST YET LICE, MITE & ROACH POWDER. For Insect Powder. F. A. HARGRAVE, doing business as Thos. A. Hargrave and Son, Dallas, Tex. Published March 15, 1923.

25,959.—*Title:* PUSSY SILVER LEGS. For Infants' Hose. HUB HOSIERY MILLS, Boston, Mass. Published April 20, 1923.

25,960.—*Title:* DEWEY'S BIG HAVANA. For Cigars. HUDSON CIGAR COMPANY, Beallsville, Ohio. Published April 16, 1923.

25,961.—*Title:* SAMPSON. For Malt Sirup. THE INDEPENDENT BREWERIES COMPANY, also doing business as Independent Products Company, St. Louis, Mo. Published February 28, 1923.

25,962.—*Title:* JENQUIN'S EXT. For Cod-Liver-Oil Pills. THE JENQUINS LABORATORIES, Chicago, Ill. Published February 28, 1923.

25,963.—*Title:* HARVEST HOME. For Blackberries. THE JETT & WOOD MERCANTILE COMPANY, Wichita, Kans. Published February 1, 1923.

25,964.—*Title:* M R J. For Coffee. MATTHEW R. JOHNSTON, doing business as M. R. Johnston Coffee Co., Baltimore, Md. Published March 12, 1923.

25,965.—*Title:* KELLOGG'S CORN FLAKES. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published March 29, 1923.

25,966.—*Title:* COVE DALE. For Eggs. JOHN V. KISKER & Co., Cincinnati, Ohio. Published February 26, 1923.

25,967.—*Title:* KRANK'S HYDROFOAM (PINE TAR) SHAMPOO. For Containers Containing a Shampoo. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,968.—*Title:* KRANK'S HYDROFOAM (ORANGE) SHAMPOO. For Containers Containing a Shampoo. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,969.—*Title:* KRANK'S LIQUID CREAM. For Containers Containing a Face Lotion. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,970.—*Title:* KRANK'S SPORICIDE. For Containers Containing an Antiseptic. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,971.—*Title:* KRANK'S CAMOLEASE. For Containers Containing a Salve. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,972.—*Title:* KRANK'S SCALPHEALTH. For Containers Containing a Hair Tonic. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,973.—*Title:* KRANK'S HAIRWEALTH. For Containers Containing a Hair Tonic. ALFRED J. KRANK, St. Paul, Minn. Published April 5, 1923.

25,974.—*Title:* KRANK'S MENTHO-LEMON. For Vanishing Cream. ALFRED J. KRANK, St. Paul, Minn. Published March 29, 1923.

25,975.—*Title:* REJUVEN. For Bird-Food Preparation. WILLIAM BERT MADDER, Sharon, Pa. Published April 24, 1923.

25,976.—*Title:* NEPO. For a Compound for Cleaning Paint and Like Surfaces. GEORGE EVERETT MARSHALL, doing business as Sterling Products Company, Los Angeles, Calif. Published March 15, 1923.

25,977.—*Title:* ANDIVISTA. For Grapes. ANDREW MATTEI, Fresno, Calif. Published January 9, 1923.

25,978.—*Title:* EGYPTIAN FLOWER SCENT BAGS. For Boxes of Sachet. M. E. MILLER, doing business as Miller Novelty Company, Chicago, Ill. Published February 10, 1923.

25,979.—*Title:* STATE. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,980.—*Title:* PHEASANT. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,981.—*Title:* OTTER. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,982.—*Title:* ICELAND. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,983.—*Title:* WASITE. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,984.—*Title:* MARTIN. For Toilet Paper. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Published August 10, 1922.

25,985.—*Title:* EL PARESON. For Cigars, Cigarettes, and Tobacco. ELIAS PAREDES & SON, New York, N. Y. Published January 8, 1923.

25,986.—*Title:* PIEDIGROTTA. For Italian Peeled Tomatoes. P. PASTENE & CO., INC., Boston, Mass. Published March 1, 1923.

25,987.—*Title:* KLEENZAL. For Paint, Grease, Varnish, and Oil Remover. REALNEED PRODUCTS CO., Harrisburg, Pa. Published October 24, 1922.

25,988.—*Title:* MARK TWAIN. For Oranges. SAN JOAQUIN FRUIT & INVESTMENT COMPANY, Tustin, Calif. Published March 16, 1923.

25,989.—*Title:* STEELE'S VANA BRAND FLAVORING. For Flavoring Compound. ROBERT C. STEELE, Lake City, Minn. Published April 18, 1923.

25,990.—*Title:* DINNER TIME. For Sliced Hawaiian Pineapple. SYMONS-MOFFETT CO., Flint, Mich. Published February 1, 1923.

25,991.—*Title:* IRIS. For Tea. SYMONS-MOFFETT CO., Flint, Mich. Published February 1, 1923.

25,992.—*Title:* PARK'S ORIGINAL. For Ginger Ale. WAUKESHA SILURIAN WATER CO., Waukesha, Wis. Published February 23, 1923.

PRINTS

REGISTERED MAY 22, 1923.

6,712.—*Title:* VENUS ERASERS. For Erasers. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published February 15, 1923.

6,713.—*Title:* VENUS PENCIL. For Copying Pencils. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published February 15, 1923.

6,714.—*Title:* VENUS EVERPOINTED. For Mechanical Pencils. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published February 15, 1923.

6,715.—*Title:* A THIN COLORED LEAD MECHANICAL PENCIL NO. 9. For Mechanical Pencils. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published February 15, 1923.

6,716.—*Title:* TREATS IN SWEETS. For Candies. ASPREY CANDY COMPANY, Sioux City, Iowa. Published April 19, 1923.

6,717.—*Title:* BOYD'S STEP LIVELY FOOT POWDER. For Foot Powders for Foot Baths. CHARLES G. BOYD, Bethlehem, Pa. Published April 14, 1923.

6,718.—*Title:* RODEWITE. For Cement-Colored Composition for Roads and Cement Constructions. CAPITAL RODEWITE CO. INC., South Washington, Va. Published April 10, 1923.

6,719.—*Title:* THE SAFETY-DEVICE FOR PORCHES. For Porch-Rail Safety Device. CHRISTELL BROTHERS, Chicago, Ill. Published February 21, 1923.

6,720.—*Title:* KIDDYGRIP SOCKLETS. For Hosiery Supporters. ISIDOR GOLDBERG, doing business as National Garter Company, New York, N. Y. Published January 3, 1923.

6,721.—*Title:* V. T. F. FANCY SHAPE LENTILLES. For Watch Glasses. HAMMEL, BIGLANDER & CO., New York, N. Y. Published April 25, 1923.

6,722.—*Title:* KIRK'S COCOA HARDWATER CASTILE. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published April 24, 1923.

6,723.—*Title:* ESPEC. For Electrical Spectacles. THE LAADT CORPORATION, Chicago, Ill. Published April 4, 1923.

6,724.—*Title:* O'NEIL'S "EVERY DROP TESTED" GREASES. For Greases. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

6,725.—*Title:* O'NEIL'S "EVERY DROP TESTED" VELVET GREASES. For Motor Oils. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

6,726.—*Title:* O'NEIL'S "EVERY DROP TESTED" PURE GASOLINE. For Gasoline. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

6,727.—*Title:* O'NEIL'S "EVERY DROP TESTED" NON-CHATTER MOTOR OIL. For Motor Oils. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

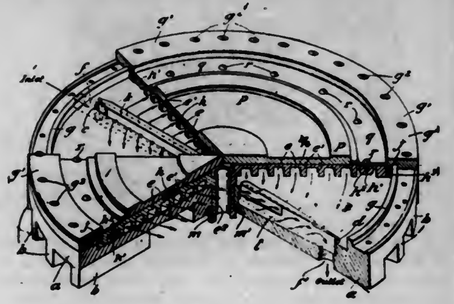
6,728.—*Title:* O'NEIL'S "EVERY DROP TESTED" VELVET MOTOR OILS. For Motor Oils. O'NEIL OIL & PAINT COMPANY, Milwaukee, Wis. Published May 1, 1922.

6,729.—*Title:* SELLING HEALTH AND COMMON SENSE. For Adults' and Children's Underwear. WRIGHT'S UNDERWEAR COMPANY, INC., Troy and New York, N. Y. Published April 1, 1923.

REISSUES.

MAY 22, 1923.

15,608. HEATING OR COOLING PLATE FOR MOLDING PRESSES. CHARLES F. BURROUGHS, East Orange, N. J., assignor, by mesne assignments, to The Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Dec. 13, 1919. Serial No. 344,711. Original No. 1,296,916, dated Mar. 11, 1919, Serial No. 215,821, filed Feb. 7, 1918. 28 Claims. (Cl. 18—5.3.)



9. The process of heating and cooling a flat die for handling hot phonograph record material which consists in forming a plurality of circularly arranged channels close to each other and to the die surface for the passage of fluid and supplying each of the fluids thereto concurrently.

15. In combination, a die body member, a channeled disk member interfitting therewith, and a fluid tight joint between the members and including a projecting rib in one member fitting a groove in the other, and an additional fluid-closure member confined in said groove.

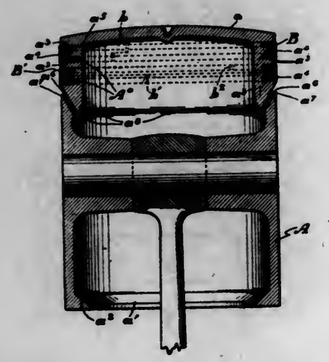
26. In combination, a structure having a surface to be heated, means including a plurality of passages within the structure for flowing a heating medium close to the surface, and means for regulating the flow to the different parts of the surfaces to uniformly bring said surface to the same degree of heat.

15,609. JACK. ENOS E. THOMSON, Cleveland, Ohio. Filed July 15, 1921. Serial No. 485,042. Original No. 1,359,849, dated Nov. 23, 1920, Serial No. 341,773, filed Dec. 1, 1919. 9 Claims. (Cl. 254—103.)



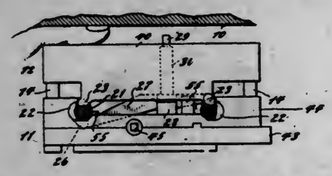
1. A jack comprising a base, a hollow tubular standard rising therefrom, and interiorly threaded, an exteriorly threaded sleeve operable within said standard, a bevel gear secured to the upper end of said sleeve, a lifting screw slidable through said sleeve, a bevel gear having threaded association with said screw, means for rotating said gears in reverse direction whereby the sleeve is elevated within the standard and the screw lifted with respect to said sleeve, and means for supporting said screw.

15,610. METALLIC PISTON PACKING. HARRY MORTON BRAMBERRY, Norfolk, Va., assignor to Piston Research Corporation, Norfolk, Va., a Corporation of Virginia. Filed Nov. 24, 1922. Serial No. 603,092. Original No. 1,382,465, dated June 21, 1921, Serial No. 358,259, filed Feb. 12, 1920. 6 Claims. (Cl. 74—109.)



1. In combination with the cylinder of an internal combustion or other compression engine, a piston having an annular ring-groove in the cylindrical surface thereof with parallel plane side walls perpendicular to the axis of the piston, the ring-groove having a generally rectangular rib or ridge projecting outwardly from the bottom of the groove, with side walls parallel to but of less height than the side walls of the groove and defining, with the side walls of the groove, two channels, one on each side of the rib, the walls that define the groove, the rib, and the channels being continuous with each other and unbroken; and a split spring packing-ring structure fitted in the groove and provided with a cylinder-engaging surface and expanding as a whole to keep the cylinder-engaging surface in contact with the cylinder wall, the ring-structure having substantially the same cross-sectional configuration and dimensions as the ring-groove, whereby an oil-sealing packing is provided and leakage of fluid between ring-structure and piston is minimized in the operation of the piston.

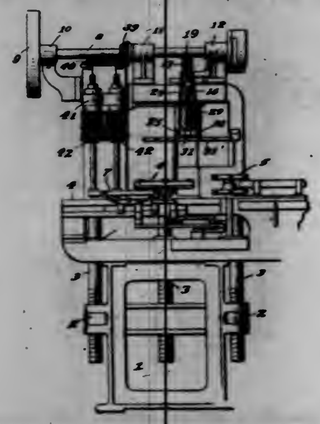
15,611. SAFETY OPERATING MECHANISM. HENRY DE SMITH, Rochester, N. Y., assignor to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 25, 1921. Serial No. 510,400. Original No. 1,354,895, dated Oct. 5, 1920, Serial No. 308,608, filed July 3, 1919. 28 Claims. (Cl. 192—132.)



17. In combination with a pressure applying element, a form as characterized, comprising a base, side and end

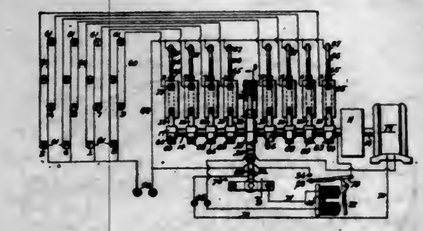
walls suitably supported thereon and adapted to yield under pressure, and means positioned on said base and engageable with said walls to prevent them from yielding, said means adapted to be actuated by said pressure element upon its approximation to the walls.

15,612. BOTTLE-CAPPING MACHINE. ELOF NORDSTROM, East Orange, N. J., assignor, by mesne assignments, to American Can Bottle Seal Corporation, a Corporation of Delaware. Filed May 13, 1921. Serial No. 469,372. Original No. 1,303,580, dated May 13, 1919, Serial No. 89,363, filed Apr. 6, 1916. 14 Claims. (Cl. 226—86.)



1. In a machine of the character described, the combination with cap applying and preliminary crimping means, means for feeding vessels to and from said cap applying and crimping means, final cap crimping means, and means operating at a different speed than the first mentioned feeding means for feeding vessels from the first mentioned feeding means to said final cap crimping means.

15,613. SIGN FLASHER. JOHN H. WHEELOCK, Fitzwilliam, N. H., assignor to Signal Engineering and Manufacturing Company, New York, N. Y., a Corporation of Massachusetts. Filed Dec. 16, 1922. Serial No. 607,445. Original application filed May 11, 1917, Serial No. 168,018. Renewed Feb. 6, 1922, Serial No. 534,589. Original No. 1,428,499, dated Sept. 5, 1922. 9 Claims. (Cl. 177—346.)

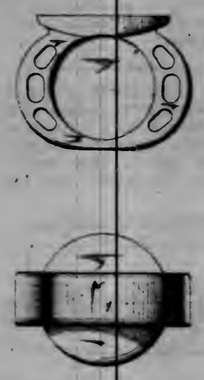


1. In a system of the class described, the combination of a plurality of circuits in multiple connected with a source of power, a plurality of controlling elements for said circuits, a shaft on which said elements are fixed, a master wheel on said shaft, means controlled by said master wheel for connecting said controlling elements with said source of power, means for connecting each controlling element with its circuit as said shaft rotates, and means for thereafter completing each circuit through a shunt around its corresponding controlling element.

DESIGNS.

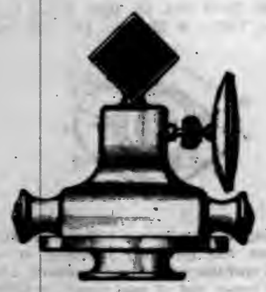
MAY 22, 1923.

62,389. TOOTHBRUSH AND TUMBLER SUPPORTING FIXTURE. JOHN H. BALMER, Newark, N. J. Filed June 21, 1922. Serial No. 2,755. Term of patent 14 years.



The ornamental design for a toothbrush and tumbler supporting fixture, as shown.

62,390. MOTOR-VEHICLE SIGNAL. MAURICE RENÉ JOHN BRUINS, New York, N. Y., assignor to Fanrot-Scope Corporation, a Corporation of Delaware. Filed Oct. 28, 1921. Serial No. 511,151. Term of patent 14 years.



The ornamental design for a motor vehicle signal as shown.

62,391. TEXTILE FABRIC OR SIMILAR ARTICLE. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1922. Serial No. 4,735. Term of patent 7 years.



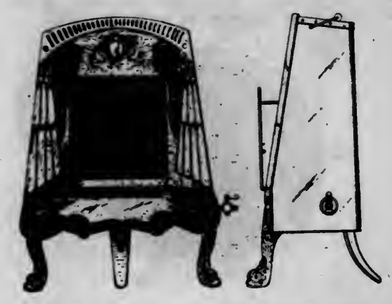
The ornamental design for a textile fabric or similar article, as shown.

62,392. PITCHER. HOWARD A. CHUACH, Elkhart, Ind. Filed June 24, 1922. Serial No. 2,816. Term of patent 3½ years.



The ornamental design for a pitcher, as shown.

62,393. HEATER. VINCENT CHWALKOWSKI, Newark, N. J. Filed June 16, 1922. Serial No. 2,702. Term of patent 3½ years.



The ornamental design for a heater, as shown.

62,394. TIRE TREAD. FRANK W. DANIEL, Wissinoming, Pa., assignor to Quaker City Rubber Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 12, 1922. Serial No. 3,367. Term of patent 14 years.



The ornamental design for a tire tread as shown.

62,395. TIRE. FRANK DISCH, Rutherford, N. J., assignor to Baker, Murray & Imbrie, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 10, 1922. Serial No. 3,344. Term of patent 7 years.





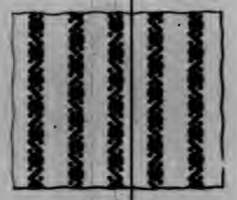
The ornamental design for a tire, substantially as shown.

62,396. PIN, EMBLEM, MEDAL, RING, OR ARTICLE OF A SIMILAR NATURE. CHARLES B. DYER, Indianapolis, Ind. Filed Oct. 21, 1921. Serial No. 509,431. Term of patent 7 years.



The ornamental design for a pin, emblem, medal, ring or article of a similar nature, as shown.

62,397. TEXTILE FABRIC. HAROLD B. FELDMAN, New York, N. Y., assignor to Arden Mills, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 27, 1922. Serial No. 4,728. Term of patent 3½ years.



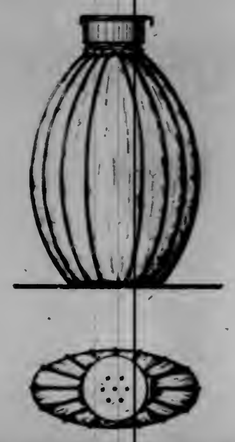
The ornamental design for a textile fabric, as shown.

62,398. PLAQUE OR SIMILAR ARTICLE. GEORGE S. HUNT, Chicago, Ill. Filed Jan. 6, 1923. Serial No. 4,829. Term of patent 14 years.



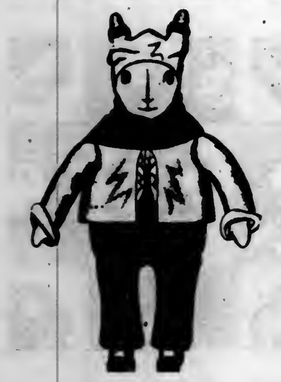
The ornamental design for a plaque or similar article, as shown.

62,399. BOTTLE. FERNAND JAVAL, Paris, France. Filed Aug. 3, 1922. Serial No. 3,279. Term of patent 14 years.



The design for a bottle substantially as shown.

62,400. DOLL. RAYMOND KELLY and GERTRUDE E. LONG, Chicago, Ill., assignors of one-third to Gibson and Gibson, Chicago, Ill., a Copartnership composed of James D. Gibson and Raymond Gibson. Filed Jan. 20, 1923. Serial No. 4,952. Term of patent 3½ years.



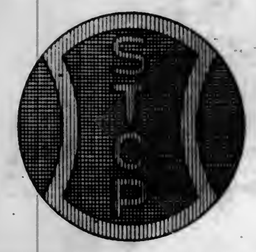
The ornamental design for a doll, as shown.

62,401. FRONT FOR A TRAFFIC-DIRECTING SIGNAL LAMP. OSCAR KROEHLE, Lakewood, Ohio, assignor to The Protex Signal Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 8, 1921. Serial No. 499,347. Term of patent 3½ years.



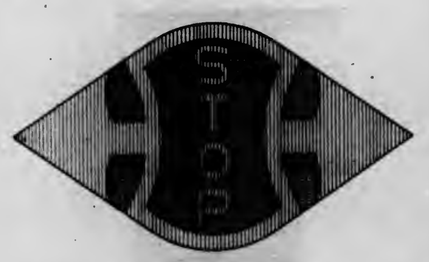
The ornamental design, substantially as shown, for the front for a traffic-directing signal-lamp.

62,402. FRONT FOR A TRAFFIC-DIRECTING SIGNAL LAMP. OSCAR KROEHLE, Lakewood, Ohio, assignor to The Protex Signal Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 12, 1921. Serial No. 500,214. Term of patent 3½ years.



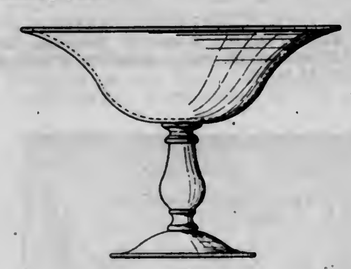
The ornamental design, substantially as shown, for the front for a traffic-directing signal-lamp.

62,403. FRONT FOR A TRAFFIC-DIRECTING SIGNAL LAMP. OSCAR KROEHLE, Lakewood, Ohio, assignor to The Protex Signal Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 16, 1921. Serial No. 501,200. Term of patent 3½ years.



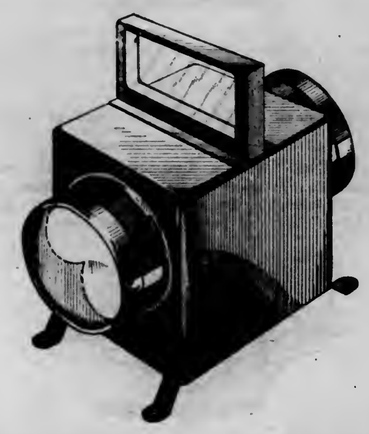
The ornamental design, substantially as shown, for the front for a traffic-directing signal-lamp.

62,404. GLASS DISH. WILLIAM H. MAGEE, Wheeling, W. Va. Filed Jan. 30, 1922. Serial No. 433. Term of patent 3½ years.



The ornamental design for a glass dish, as shown.

62,405. AUTOMOBILE SIGNAL. PETER MCLAREN, Whittier, Calif., assignor to McLaren Automobile Signal Co., a Corporation of California. Filed Apr. 10, 1922. Serial No. 1,667. Term of patent 14 years.



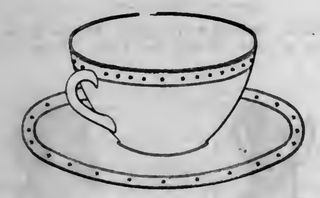
The ornamental design for an automobile signal, as shown.

62,406. JEWELRY TRINKET. HERBERT NALTY, London, England. Filed Sept. 13, 1922. Serial No. 3,711. Term of patent 3½ years.



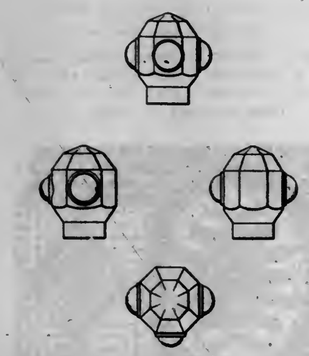
The ornamental design for a jewelry trinket as shown.

62,407. CUP AND SAUCER. STARRATT D. NICHOLS, Buffalo, N. Y. Filed June 22, 1921. Serial No. 479,667. Term of patent 7 years.



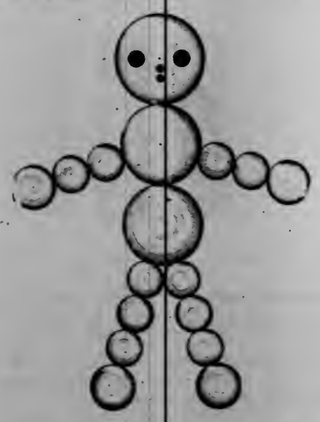
The ornamental design for a cup and saucer, substantially as shown.

62,408. CASING FOR PARKING LAMPS. CHARLES S. OVERTON, Baltimore, Md. Filed May 17, 1922. Serial No. 2,284. Term of patent 7 years.



The ornamental design for a casing for parking lamps, as shown.

62,409. TOY DOLL. CHARLES HAMILTON PAJEAU, Evanston, Ill. Filed Dec. 16, 1921. Serial No. 522,934. Term of patent 14 years.



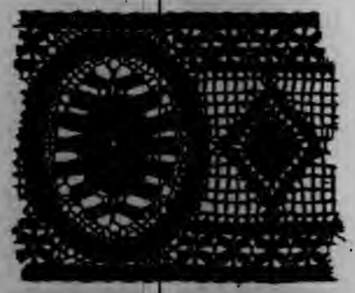
The ornamental design for a toy doll, as shown and described.

62,410. DOLL. MABEL L. PHINNEY, Fergus Falls, Minn. Filed Jan. 5, 1923. Serial No. 4,819. Term of patent 7 years.



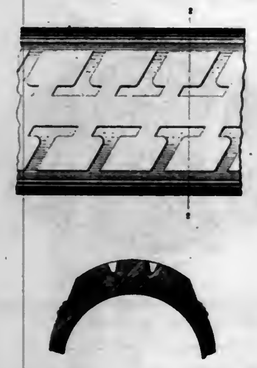
The ornamental design for a doll, as shown.

62,411. LACE. GEORGE RADFORD, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,124. Term of patent 3½ years.



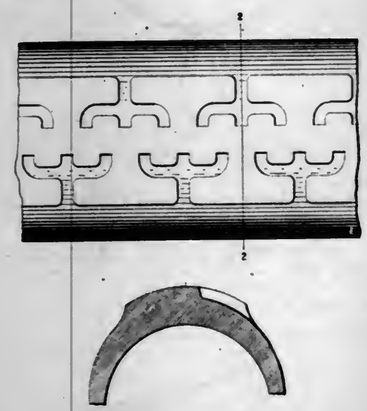
The ornamental design for lace, as shown.

62,412. TIRE TREAD. HAROLD D. REICHARD, Akron, Ohio. Filed June 17, 1922. Serial No. 2,725. Term of patent 14 years.



The ornamental design for a tire tread as shown.

62,413. TIRE TREAD. HAROLD D. REICHARD, Akron, Ohio. Filed June 17, 1922. Serial No. 2,726. Term of patent 14 years.



The ornamental design for a tire tread as shown.

62,414. RING. WALTER SHANLEY ROBERTSON, Philadelphia, Pa., assignor to The Chas. H. Elliott Company, Philadelphia, Pa. Filed Nov. 20, 1922. Serial No. 4,341. Term of patent 3½ years.



The ornamental design for a ring as shown.

62,415. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed June 28, 1922. Serial No. 2,872. Term of patent 7 years.



The ornamental design for a mesh bag as shown.

62,416. COFFEE PERCOLATOR, TEAPOT, OR SIMILAR ARTICLE. ALFRED H. SANDER, Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Sept. 10, 1921. Serial No. 499,829. Term of patent 3½ years.



The ornamental design for a coffee percolator, teapot or similar article, substantially as shown and described.

62,417. TEAPOT OR SIMILAR ARTICLE. ALFRED H. SANDER, Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Sept. 10, 1921. Serial No. 499,830. Term of patent 3½ years.



The ornamental design for a teapot or similar article, substantially as shown and described.

62,418. TEAPOT OR SIMILAR ARTICLE. ALFRED H. SANDER, Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Sept. 10, 1921. Serial No. 499,836. Term of patent 3½ years.



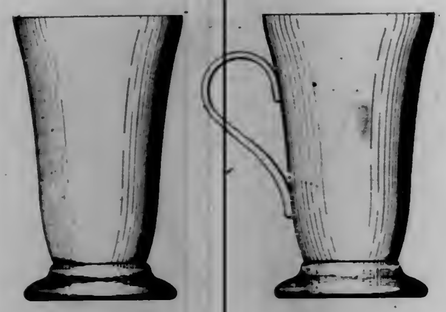
The ornamental design for a teapot or similar article, substantially as shown and described.

62,419. BOX FOR TALCUM POWDERS AND THE LIKE. ANTONIO ZIRION Y SARAVIA, Mexico, Mexico, and RAMON M. RODRIGUEZ, New York, N. Y., assignors to Dermophile Products Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1922. Serial No. 2,527. Term of patent 14 years.



The ornamental design for a box for talcum powders and the like as shown.

62,420. DRINKING CUP. ALBERT F. SAUNDERS, East Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y., a Corporation of New York. Filed Aug. 3, 1921. Serial No. 489,638. Term of patent 3½ years.



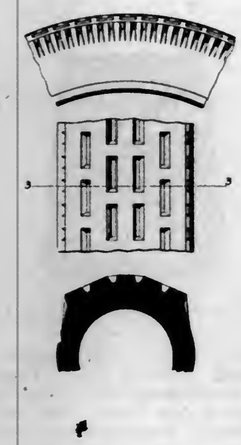
The ornamental design for a drinking cup, substantially as shown.

62,421. SIGNAL HEAD. PAUL H. SCHULZ and CHRISTIAN JESSEN, Milwaukee, Wis. Filed Dec. 20, 1921. Serial No. 523,780. Term of patent 3½ years.



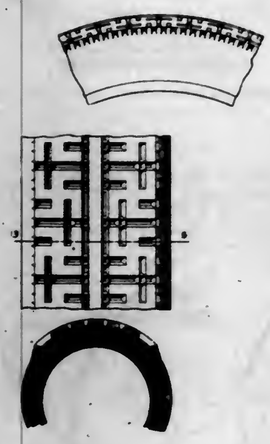
The ornamental design for a signal-head, as shown.

62,422. TIRE. ALFRED K. SIMMONS, Faribault, Minn., assignor of thirty-five one-hundredths to Gus N. Boosalis and fifteen one-hundredths to Lucius A. Smith, both of Faribault, Minn. Filed Aug. 4, 1922. Serial No. 3,284. Term of patent 14 years.



The ornamental design for a tire, as shown.

62,423. TIRE. ALFRED K. SIMMONS, Faribault, Minn., assignor of thirty-five one-hundredths to Gus N. Boosalis and fifteen one-hundredths to Lucius A. Smith, both of Faribault, Minn. Filed Aug. 4, 1922. Serial No. 3,285. Term of patent 14 years.



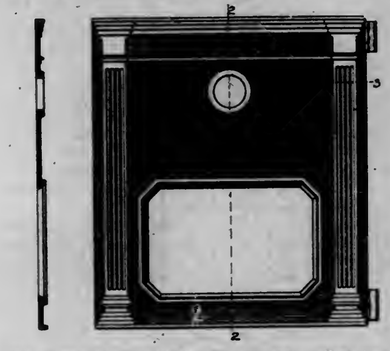
The ornamental design for a tire, as shown.

62,424. HAND BAG. JACOB SIMS, Brooklyn, N. Y. Filed Aug. 3, 1922. Serial No. 3,277. Term of patent 3½ years.



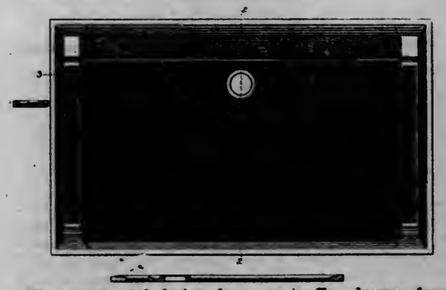
The ornamental design for a hand bag as shown.

62,425. POST-OFFICE-BOX DOOR. GROVE F. STEELE, Jr., New Britain, Conn. Filed Jan. 9, 1922. Serial No. 129. Term of patent 14 years.



The ornamental design for a post office box door shown in the accompanying drawing.

62,426. POST-OFFICE-DRAWER FRONT. GROVE F. STEELE, Jr., New Britain, Conn. Filed Jan. 9, 1922. Serial No. 130. Term of patent 14 years.



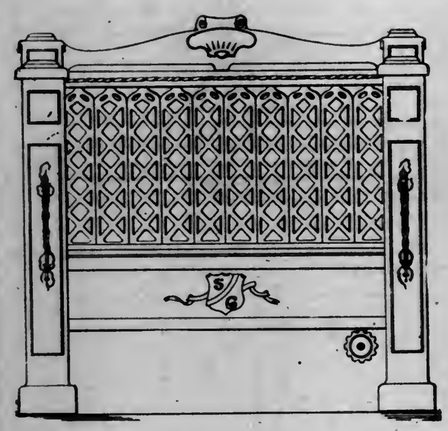
The ornamental design for a post office drawer front shown in the accompanying drawing.

62,427. TRINKET OR SIMILAR ARTICLE. ADOLPH STUETZEL and HERMAN W. BOHN, Boston, Mass.; said Stuetzel, assignor to said Bohn. Filed Dec. 27, 1922. Serial No. 4,721. Term of patent 3½ years.



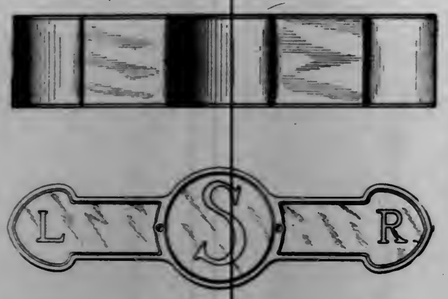
The ornamental design for trinket or similar article, substantially as shown.

62,428. GAS HEATER. JOHN R. TAYLOR, Mansfield, Ohio. Filed May 5, 1922. Serial No. 2,094. Term of patent 7 years.



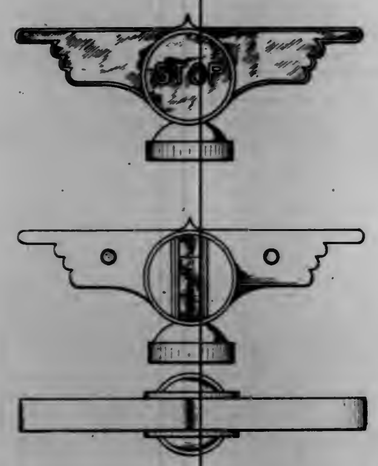
The ornamental design for a gas heater, as shown.

62,429. TRAFFIC SIGNAL. WILLIAM THOMAS, Jr., Los Angeles, Calif., assignor to Thomas Auto Traffic Signal Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 18, 1922. Serial No. 1,831. Term of patent 14 years.



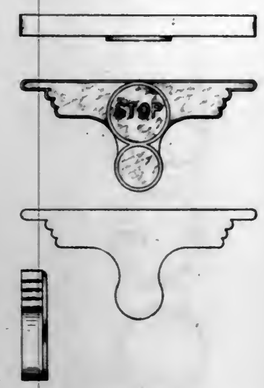
The ornamental design for a traffic signal as shown.

62,430. AUTOMOBILE SIGNALING DEVICE. WILLIAM H. WOOLUMS, South Bend, Ind. Filed Aug. 3, 1922. Serial No. 3,275. Term of patent 14 years.



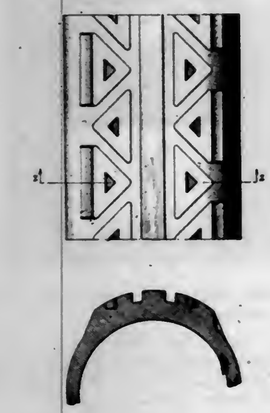
The ornamental design for an automobile signaling device, as shown.

62,431. AUTOMOBILE SIGNALING DEVICE. WILLIAM H. WOOLUMS, South Bend, Ind. Filed Aug. 3, 1922. Serial No. 3,276. Term of patent 14 years.



The ornamental design for an automobile signaling device, as shown.

62,432. AUTOMOBILE TIRE. BENJAMIN F. WORRELL, Chicago, Ill. Filed Mar. 16, 1922. Serial No. 1,208. Term of patent 3½ years.

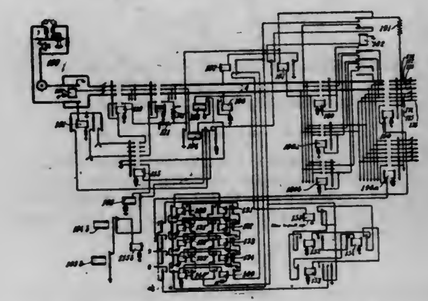


The ornamental design for an automobile tire as shown.

PATENTS

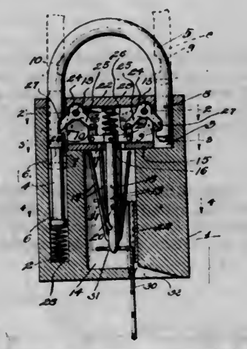
GRANTED MAY 22, 1923.

1,455,769. MACHINE-SWITCHING TELEPHONE SYSTEM. ROY C. ARTER, Galion, Ohio, assignor to The North Electric Manufacturing Company, Galion, Ohio, a Corporation of Ohio. Filed June 7, 1920. Serial No. 387,275. 15 Claims. (Cl. 179—18.)



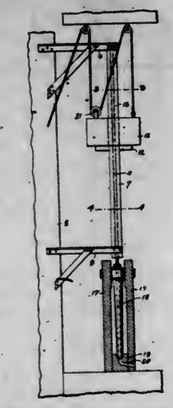
1. In a telephone exchange system, a line, a plurality of groups of other lines, each group bearing a different numerical designation, means for rendering busy said other lines, switching means associated with said line and operable in accordance with the numerical designations of said groups, other switching means associated with said line and operable in accordance with the busy or idle condition of said other lines, means for actuating said first mentioned switching means to select a desired group of lines, and means including said other switching means, operative thereupon for connecting said line directly to an idle one of said other lines.

1,455,770. LOCK. EDWARD ANDERSON, Denver, Colo., assignor of one-tenth to J. Harry Moorman, Denver, Colo. Filed Mar. 3, 1921. Serial No. 449,505. 3 Claims. (Cl. 70—17.)



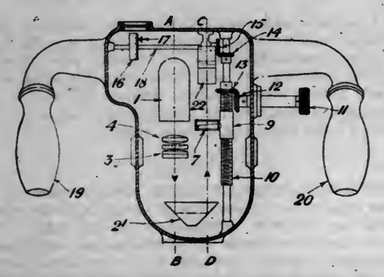
2. A lock comprising a body, a shackle yieldably engaged therewith, a plate located in the body and having a plurality of holes formed therein, a bar slidably mounted in the body and having one end extended through the plate, a plurality of resilient prongs carried by the bar and normally out of alinement with said holes, a yoke carried by the extended end of the bar, bell cranks pivotally connected with the yoke and body and engaged with the shackle to normally hold the same locked, and a key adapted to engage the bar and prongs to flex the latter to aline the same with said holes when said key is forced into the body, as and for the purpose set forth.

1,455,771. PROCESS FOR EXPANDING AND SMOOTHING THE BORES IN GUN BARRELS. MARTIN ANDERSON, Randwick, near Sydney, New South Wales, Australia. Filed Oct. 25, 1918. Serial No. 259,701. 4 Claims. (Cl. 29—1.11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A method of expanding and smoothing gun barrels, which consists in first drilling or forming a bore in the gun to be made and subsequently forcing through said bore a hardened sphere of slightly larger diameter than the bore, said sphere being advanced through the gun bore under the influence of a heavy weight which is guided in its movement to effect rectilinear movement of the sphere.

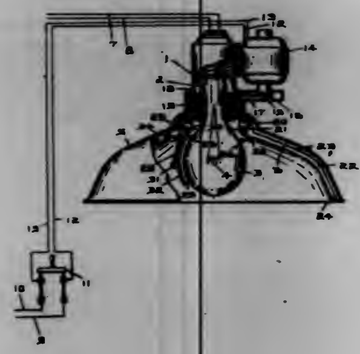
1,455,772. OPTICAL APPARATUS FOR MEASURING SMALL ANGLES. ARCHIBALD BARR and WILLIAM STROUD, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Filed May 24, 1921. Serial No. 472,188. 8 Claims. (Cl. 88—2.7.)



1. Optical apparatus consisting of two telescopic systems of the prismatic type, an eyepiece common to the

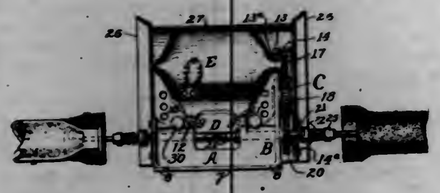
two telescopic systems, each telescopic system having prisms for reflecting the beams of light first vertically in one direction then horizontally and laterally, then vertically, in a direction opposite to the first, a separating prism system by which the beams are directed into the eyepiece, and means in the telescopic systems for producing coincidence, for the purposes set forth.

1,455,773. LIGHT-CLEANING APPARATUS. JAMES A. H. BELL, Toledo, Ohio. Filed Mar. 7, 1921. Serial No. 450,441. 9 Claims. (Cl. 15—97.)



8. A wiper device for a bulb, having a shade, said device embodying wiper means for cleaning the bulb and shade, and a motor connected to operate the wiper means.

1,455,774. BOTTLE-WASHING MACHINE. GUSTAF A. BERG, Los Angeles, Calif. Filed June 13, 1921. Serial No. 477,088. 5 Claims. (Cl. 15—65.)



3. A bottle washing machine having a supporting base, a motor mounted thereon, a hood engaged over the base and presenting splash-plates at opposite ends thereof, said hood inclosing the said motor, spindles penetrating the said plates, driving means between the motor and the inclosed portions of the said spindles, and a washer element at the outer end of each spindle.

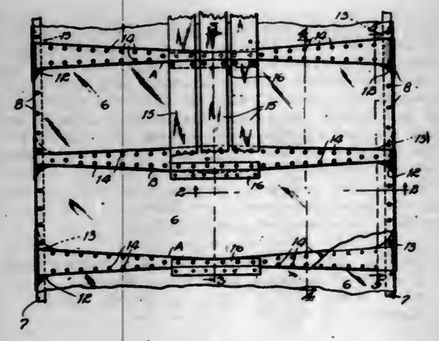
1,455,775. LEAKPROOF INNER TUBE. GROVER C. BERRYMAN, Los Angeles, Calif. Filed Feb. 12, 1921. Serial No. 444,390. 2 Claims. (Cl. 152—13.)

1. An inner tube built up of two layers, said layers being molded together outwardly from a transverse center line and said layers being molded separately inwardly from the transverse center line so as to form a compressed air space between the layers entirely around the tube, circumferentially and half way around crosswise, a puncture-resisting strip of uncured rubber se-



cured to the outer face of the inner layer in the compressed air space all the way around, and a tire valve communicating with the compressed air space.

1,455,776. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Feb. 27, 1922. Serial No. 539,710. 15 Claims. (Cl. 108—5.4.)



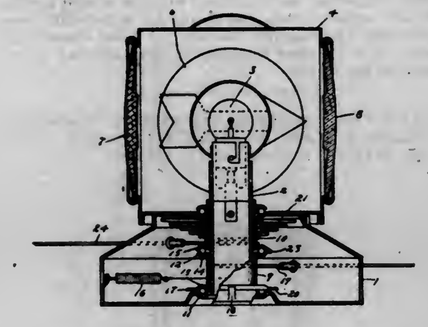
1. A metal car roof comprising a series of transverse stiffening ribs whose width varies from bridge to eaves, some of said ribs being wider at the eaves than at the ridge and other of said ribs being wider at the ridge than at the eaves.

1,455,777. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1922. Serial No. 548,289. 13 Claims. (Cl. 108—5.4.)



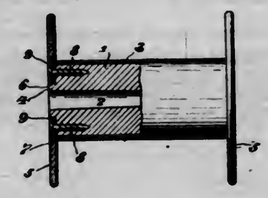
1. A car roof comprising a series of roof sheets connected by raised seams alternating with depressed seams.

1,455,778. VEHICLE TRAFFIC SIGNAL. ROBERT FRANKLIN BOWER, Detroit, Mich. Filed Dec. 14, 1921. Serial No. 522,287. 14 Claims. (Cl. 116—48.)



1. The combination with a rotatable member, of a concentric rotatable carrier having indicating signals, said carrier being normally rotatable with said rotatable member, but being adapted to be rotated independently thereof about the same axis.

1,455,779. SPOOL. JAMES MORRIS BROWN, Philadelphia, Pa. Filed June 7, 1922. Serial No. 566,529. 5 Claims. (Cl. 242—124.)



3. A spool comprising an inner core member having projections at its opposite ends concentric therewith, end plate members having central openings through which the said projections extend, the said end plate members being seated in the spaces surrounding the said projections, said plate members being provided with grooves concentric with the said openings and a shell surrounding the said core member and having its opposite ends projecting into the said grooves, substantially as described.

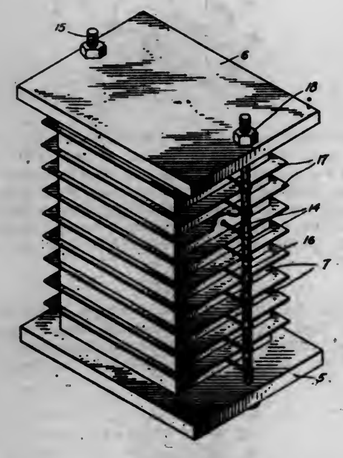
1,455,780. COOKING UTENSIL. FRANK E. CORWIN, Toledo, Ohio. Filed Dec. 30, 1921. Serial No. 525,845. 6 Claims. (Cl. 53—7.)



1. A cooking utensil embodying a plurality of major concave bottom pockets and a minor convex bottom having trough connection with said major pockets.

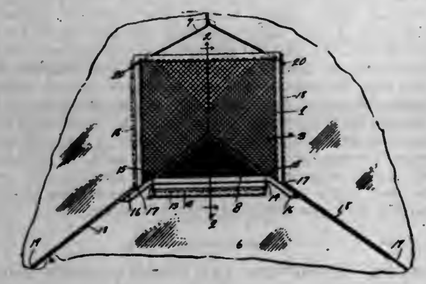
6. An aluminum cooking vessel provided with a sand blast roughened cooking surface, whereby the soft aluminum skin is impacted to be less porous as to absorbing or conducting away grease and is more effective for retaining grease in the uneven hardened or close grained indentations of such surface for more effectively permitting ready removal of foodstuffs cooked therein.

1,455,781. ELECTRICAL CONDENSER. WILLIAM DUBILIER, New York, N. Y., assignor to Dubilier Condenser & Radio Corporation, a Corporation of Delaware. Filed Dec. 7, 1921. Serial No. 520,594. 4 Claims. (Cl. 250—41.)



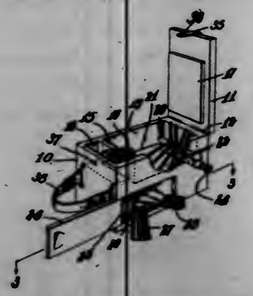
1. A condenser unit comprising a plurality of condenser sections connected in parallel through a light fusible conductor.

1,455,782. FLYTRAP. HENRY A. FAES, Crook, Colo. Filed Mar. 7, 1922. Serial No. 541,683. 3 Claims. (Cl. 43—119.)



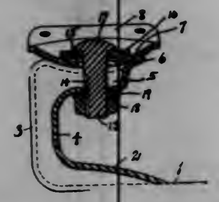
3. An insect trap comprising a receptacle adapted to be supported adjacent a window, downwardly and outwardly extending legs carried by said receptacle and forming means for supporting the trap on a horizontal support, insect guide members pivoted to said legs at points spaced from their ends, said legs forming means for limiting the downward movement of the guide members, means for holding the guide members in vertical positions adjacent the sides of the trap, a fly entrance between the guides, a bait pan pivoted below the insect entrance and having its lower side higher than the lower ends of the supporting legs of the trap.

1,455,783. CONTAINER FOR TOILET ARTICLES. ANDY FTYKLO, Braznell, Pa. Filed Dec. 30, 1921. Serial No. 525,836. 4 Claims. (Cl. 132—79.)



2. In a device of the class described, a box having a soap compartment therein, a well formed partly in the bottom and partly in one end wall of said compartment, drainage grooves in said bottom and wall leading to said well, and drainage means leading from said well, said means comprising a conduit leading outwardly through the sides of the box, and a removable cap on said conduit.

1,455,784. LAMP BRACKET. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 582,717. 1 Claim. (Cl. 240—57.)



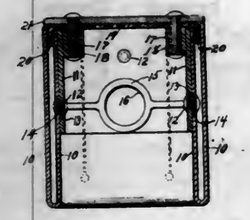
The combination of a lamp provided with a convex spherical surface and a hole in said surface, a bracket comprising a foot, an intermediate portion and a head formed with an arcuate concave seat for the spherical surface of the lamp body and with a hole adapted to aline with the hole in the lamp body, said bracket being formed of metal of substantially even thickness and with an integral rib extending along the inner sides of the foot, head and intermediate portion, a part of the groove produced by the bending of the metal to produce said rib forming a recess within the arcuate seat on the head, and a bolt extending through said holes to adjustably hold the lamp body in the bracket.

1,455,785. SCREENING AND SIZING PROCESS AND APPARATUS. GEORGE C. HACKSTAFF, Denver, Colo. Filed Dec. 18, 1920. Serial No. 431,748. 2 Claims. (Cl. 83—56.)



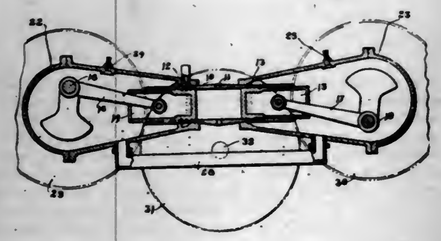
1. A machine for screening powdered ore comprising a frame inclined about two inches in every twelve feet, a screen attached thereto, said screen comprising a plurality of sections of graduated mesh, a supporting member over each screen section, a magnet provided with a movable armature secured to said supporting member, means connecting said armature with the central portion of each screen section, and means for periodically energizing said electromagnet whereby the latter vibrates the screen in a direction substantially perpendicular to the plane of the screen.

1,455,786. SHEET-METAL PISTON. STEPHEN D. HARTOG, St. Louis, Mo. Filed Nov. 19, 1919. Serial No. 339,047. 19 Claims. (Cl. 74—108.)



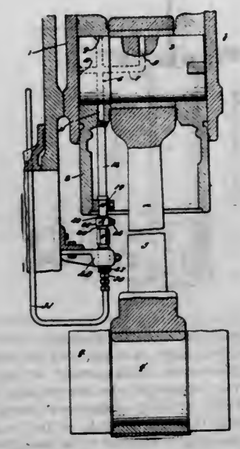
1. A piston, comprising an expansible body, and a member in connection with said body having a coefficient of expansion less than that of the body when heated, said member being located within said body and limiting the contraction of the body, and leaving the body free to expand independently of any pressure by said member.

1,455,787. DIESEL ENGINE. HERBERT T. HERR, Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1921. Serial No. 460,804. 6 Claims. (Cl. 123—51.)



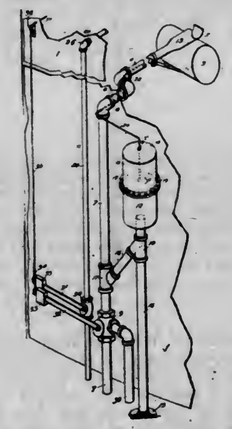
1. In a two-cycle internal combustion engine of the opposed-piston type, a differential cylinder having a central portion and two end portions, the end portions being of slightly greater diameter than the central portion, the central portion constituting a working chamber and the end portions second stage compression chambers, a differential piston arranged to reciprocate in each end of the cylinder, a piston controlled exhaust and scavenging ports at the outer ends of the central cylinder portion, a crank shaft adjacent each end of the cylinder, each shaft being operatively connected to the adjacent piston, a fluid-tight crank case for each shaft to form first stage compression chambers, an inwardly opening valve in each crank case, connections between the crank cases and the second stage compression chambers, and connections between the second stage compression chambers and the scavenging ports.

1,455,788. PUMP. REINHARD HILDEBRAND, Webster Groves, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,302. 14 Claims. (Cl. 103—42.)



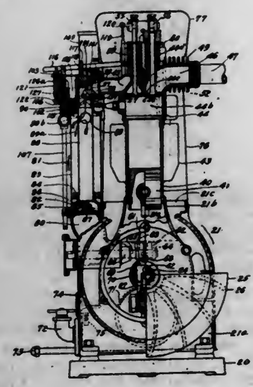
1. A pump comprising two pumping elements one of which is movable relative to the other so as to force fluid through the pump, and operating means comprising a striking member movable into and out of engagement with the movable pumping element, said striking member and movable pumping element having registering discharge passageways through which fluid is discharged while the striking member is engaged with the movable pumping element, and the other pumping element having an open inlet permitting reflux of some of the fluid in response to the pressure transmitted from said striking member.

1,455,789. APPARATUS FOR AUTOMATICALLY EXTINGUISHING FIRES IN OIL TANKS AND OTHER STRUCTURES. OSCAR J. HOLMES, Tulsa, Okla. Filed Jan. 7, 1918. Serial No. 210,755. 2 Claims. (Cl. 169—4.)



1. In a fire-apparatus, the combination with a structure to be protected from fire, of separate sources of supply for acid and a foam-forming alkaline solution exterior of said structure; means for conveying said acid and solution separately into said structure under pressure; a swinging acid and foam-mixing device connected to said acid and solution conveying means in said structure; and means for discharging the foam formed in said swinging mixing-device.

1,455,790. POWER PLANT. LESTER S. KEILHOLTZ, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 28, 1918. Serial No. 225,312. 14 Claims. (Cl. 123—132.)

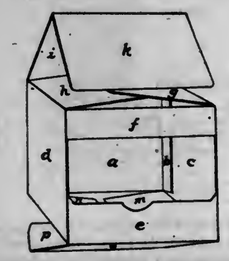


1. In a device of the kind described, the combination with an internal-combustion engine have an intake; of a pump communicating with the intake, and having cooperating stationary and movable elements; a fulcrum; a lever connected to the movable element and sented upon the fulcrum; yielding means normally holding the lever on the fulcrum: and means connecting the lever with a moving part of the engine.

1,455,791. FLUX OR SOLVENT FOR USE IN TECHNICAL PROCESS. ALBERT ANDREW KELLY, London, England, assignor to Borax Consolidated Limited, London, England, a British Company. Filed Sept. 16, 1920. Serial No. 410,787. 3 Claims. (Cl. 106—36.1.)

1. A vitreous material comprising sodium decaborate as a constituent therein.

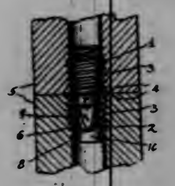
1,455,792. PAPER BOX. HARRY C. KESSLER, Warrington, Pa., assignor to Breuker & Kessler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1921. Serial No. 495,069. 1 Claim. (Cl. 229—17.)



A foldable box having front, end and rear walls secured to each other, the rear wall having an opening there-

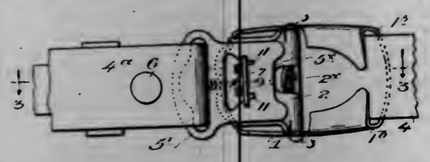
hrough so located and of such dimensions as to display he goods placed therein, and a top formed of three flaps, wo of which extend from the end walls while the third xtends from the front wall and is arranged to overlie he other top forming flaps, the latter flap having a flap t its free end which forms a closure for the opening in he back of the box.

1,455,793. DOWEL PIN. ERNEST T. KINDT, Cleveland, Ohio. Filed Apr. 7, 1922. Serial No. 550,548. 8 Claims. (Cl. 22—119.)



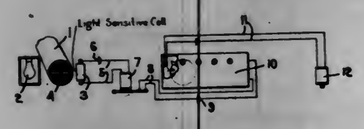
1. In dowel pin construction the combination of complementary male and female pins, each provided with a screw threaded shank having a thin upper flange and means for engagement with a wrench to allow such pins to be screwed into position.

1,455,794. BELT BUCKLE. FRANK F. KNOTHE, Ridgewood, N. J., assignor to Knothe Brothers Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 15, 1922. Serial No. 536,676. 5 Claims. (Cl. 24—78.)



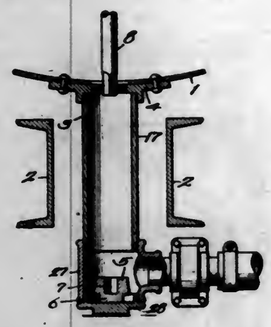
1. A belt buckle comprising a frame, a clamp member movably connected therewith, a connector adapted for attachment to a belt end, a projection upon one of said parts and the other part provided with a recess to receive said projection, said recess having a reduced neck-like portion and slots on opposite sides thereof communicating with said recess providing spaced stop fingers between the neck-like portion and the slots to cooperate with said projection to retain said member and connector in engagement.

1,455,795. MEANS FOR CONTROLLING A PRODUCTION PROCESS. LLOYD LOGAN, Pittsburgh, Pa. Filed Dec. 20, 1920. Serial No. 432,086. 5 Claims. (Cl. 250—1.)



1. The combination with means for producing radiant energy, of other means to cause variations therein by the quantity produced in a process or operation in which material is acted upon, and means rendered operative by said variations to exercise control over said process or operation.

1,455,796. TANK. HOWARD LOGAN, Chicago, Ill. Filed Apr. 1, 1922. Serial No. 548,860. 16 Claims. (Cl. 137—21.)



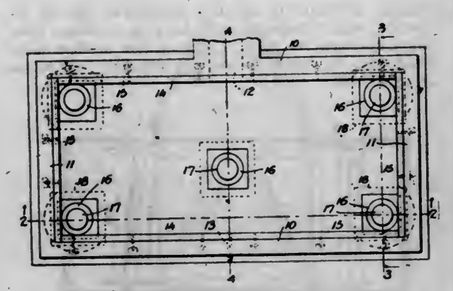
16. A tank having a circular discharge opening; a removable plug within said opening and in threaded engagement with the surrounding portion of the tank and having an exterior formation whereby it may be turned; a stem in separable turning engagement with an inner portion of the plug through the side of the tank opposite the side where the plug is located to be operable upon the exterior of the tank; means for obstructing movement of the stem longitudinally of its axis and serving to hold the inner end of the stem at the plug opening in position to enable the plug to be engaged with the stem in the entering movement of the plug; and a discharge nozzle separably assembled with the tank and in register with said discharge opening and having an angular outlet portion.

1,455,797. ASPARAGUS CUTTER. FRITZ MACKENSEN, Worpswede, near Bremen, Germany. Filed May 25, 1922. Serial No. 563,634. 8 Claims. (Cl. 55—65.)



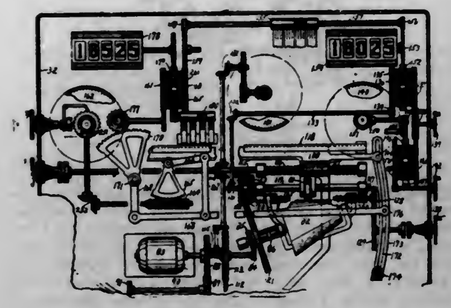
1. The combination, in an asparagus-cutter, of a rod, a handle at one end of said rod and a ring at the other, a tube upon said rod, a scythe-like knife-blade fixed upon the lower end of said tube and arranged at the back of and shaped to be covered by said ring, a handle attached at the upper end of said tube, and a helical spring upon the said rod between said handles adapted to press said blade axially against the back of said ring, substantially as set forth.

1,455,798. PLATFORM-SCALE FOUNDATION. JOSEPH J. MAGRADY, Chicago, Ill. Filed May 20, 1922. Serial No. 562,374. 2 Claims. (Cl. 72—77.)



1. A foundation or pit for platform scales having side and end walls and a base and bearing supporting pedestals of frusto-conical form extending upwardly through the base at spaced points and having foundation supports below and independent of the base and rounded dirt shedding surfaces above the base.

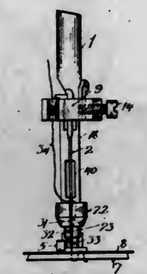
1,455,799. RANGE CLOCK. ELEMER MEITNER, Brooklyn, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 16, 1915. Serial No. 40,235. 13 Claims. (Cl. 235—61.)



1. In a range clock, means for determining the rate of change of range comprising an indicator adapted to show the angle between the course and the target bearings, a second indicator adapted to show the speed, connecting means between said indicators for multiplying the speed by a function of said angle, a third indicator to show the angle between the target's course and the target bearings, a fourth indicator to show the target's speed, connecting means between said last named indicators for multiplying the speed by a function of said last named angle, and differential connections between said connecting means.

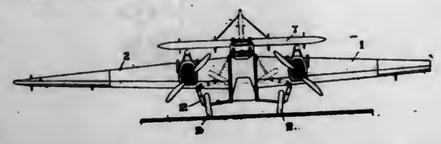
12. In a range change calculator, a range counter, rate of range change computing mechanisms, means for operating said counter through a constant speed device, variable speed mechanism controlled by said range change computing mechanism for changing the effective operation of said constant speed motor, said variable speed mechanism comprising a speed cone and cooperating roller, and means for adjusting the speed cone in position.

1,455,800. SAFETY GUARD. HERMAN MILLER, New York, N. Y., assignor of one-fourth to Norman Miller, one-fourth to Nathan Miller, and one fourth to Isidore L. Miller, all of New York, N. Y. Filed May 10, 1921. Serial No. 468,462. 3 Claims. Cl. 112—261.)



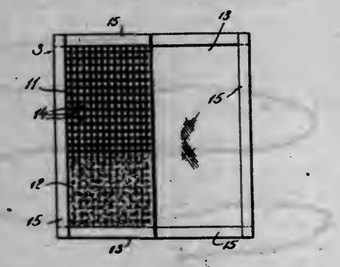
1. A guard for a machine having a reciprocating member adapted to operate on stock fed to the machine, of means for guarding the lower end of the reciprocating member of the machine, comprising telescoping members surrounding the reciprocating member, said telescoping members having vertically aligning slots for the purpose set forth, and means for preventing said telescoping members from revolving to maintain said slots in alignment.

1,455,801. AIRCRAFT. FRANCIS JOHN MORSE, Norwich, England. Filed May 17, 1922. Serial No. 561,643. 5 Claims. (Cl. 244—14.)



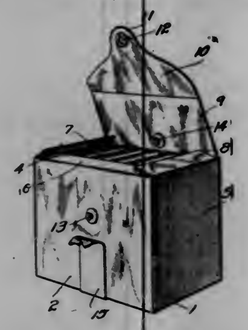
1. An aircraft comprising in combination supporting wings of pterygoid aerofoil form, a fuselage of similar form arranged at a different angle of incidence from the wings, and a tail plane mounted on said fuselage above the plane of the wings.

1,455,802. DEVICE FOR WAVING NATURAL HAIR. CHARLES NESSLER, New York, N. Y. Filed Oct. 5, 1921. Serial No. 505,451. 9 Claims. (Cl. 132—36.)



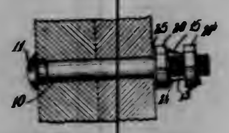
1. A hair waving device comprising material having a surface capable of receiving and retaining a hair-treating substance distributed thereover and juxtaposed absorbent material constructed and arranged to be interposed between said retaining means and the treated hair.

1,455,803. CARTRIDGE BOX. FRANK B. NOFSINGER, Kansas City, Mo. Filed July 1, 1921. Serial No. 481,815. 5 Claims. (Cl. 224—23.)



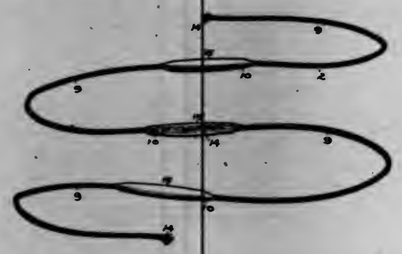
1. A cartridge box comprising a container having a hinged cover and a flap on one edge thereof, a fastening device on the inner face of the cover and on one face of the box, and a fastening device on the flap adapted to interchangeably engage the first named fastening device.

1,455,804. NUT LOCK. STANLEY NOVINSKI, Braznell, Pa., assignor of one-half to Szymon Spryszak, Braznell, Pa. Filed Feb. 13, 1922. Serial No. 536,016. 4 Claims. (Cl. 151—6.)



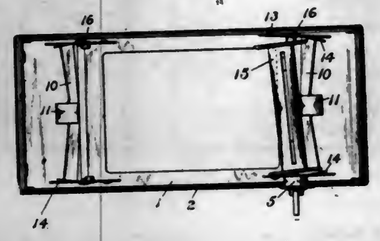
1. In combination, a bolt having a recess formed therein, a latch fixed in said recess and normally projecting laterally beyond the bolt, a nut threaded on the bolt and being formed on its rear face with ratchet toothed projections, and a spring fixed to the bolt and carrying said latch and adapted to permit both of lateral and longitudinal movement of the latch with respect to the bolt.

1,455,805. THERMAL CONTROL CABLE. FREDERICK W. PARSONS, Cleveland, Ohio. Filed May 8, 1922. Serial No. 559,429. 4 Claims. (Cl. 169—42.)



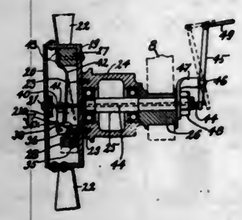
1. As an article of manufacture and sale, a thermal control cable for fire protection uses, comprising a series of cable sections made of twisted wire strands, the strands being separably interlaid at their meeting ends and bonded together solely with relatively small bodies of low fusing solder, said bodies being of relatively small diameter and without sharp or abrupt projections.

1,455,806. SWINGING SPOOL CARRIAGE. OLIVER W. PAUSCH, San Francisco, Calif., assignor to Ansco Company, Binghamton, N. Y., a Corporation of New York. Filed Oct. 20, 1922. Serial No. 595,864. 8 Claims. (Cl. 242—71.)



2. In a swinging spool carriage comprising a spool carrier, pivot members therefor, and a roller mounted to rotate in said pivot members in bearings independent of the spool carrier.

1,455,807. GOVERNOR FOR EXPLOSIVE ENGINES. NELS PEDERSON, Trent, S. Dak. Filed Mar. 12, 1921. Serial No. 451,782. 1 Claim. (Cl. 264—16.)

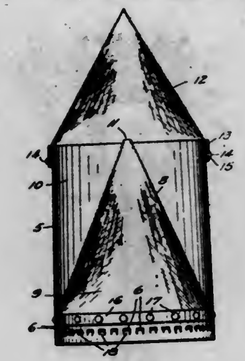


The combination of an explosive type engine having a cylindrical revolving member and a rod extending centrally out of the cylinder to act upon valve controlling means of the engine, means within the cylinder for actuating said rod and comprising a leaf spring secured with one end near the inner periphery of the cylinder and extending with its other end across the inner end of the slidable rod in a slanting position allowing the rod to normally project partly into the cylinder, a bell crank lever mounted in the cylinder and having in one arm an antifriction roller bearing on the leaf spring, the other arm being operatively connected to a lever pivoted at one end and having at its other end a centrifugal weight, a spring resisting the swing of said weighted lever, and a counterbalancing weight fixed in the cylinder diametrically opposite the weighted lever.

1,455,808. FLYTRAP. JAMES FOTTS, Seattle, Wash. Filed Feb. 7, 1921. Serial No. 443,236. 1 Claim. (Cl. 43—118.)

A fly-trap comprising an opaque tubular body, a conical cap of wire gauze detachably connected to the upper end of said body and a conical partition of wire gauze provided within the body and having a passage-way at its apex between the compartments above and below the partition, said partition having its lower end secured to the body adjacent to the lower end of the latter and having its upper end located at approximately the elevation of the upper end of the body, said body being provided below

the partition with circumferentially arranged inlets produced by punching from the body tongues which extend

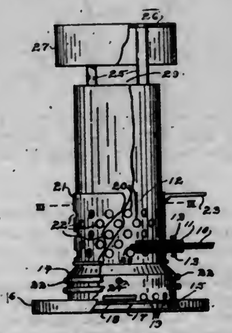


inwardly and upwardly from the bottom of the edges of said inlets being coextensive with the periphery of the body.

1,455,809. ELASTIC GASKET COMPOSITION. JOSEPH RITTER, Pittsburgh, Pa., assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 7, 1922. Serial No. 527,715. 4 Claims. (Cl. 106—8.)

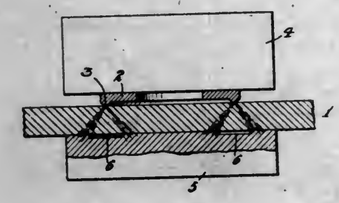
1. An elastic gasket composition adapted for use in sealing covers on metal containers, comprising comparatively large proportions of glycerin and glue and comparatively small proportions of varnish and a vegetable oil, the proportion of glycerin at least equaling that of the glue.

1,455,810. BURNER. CHARLES O. ROWLEY, Toledo, Ohio. Filed Dec. 2, 1921. Serial No. 519,352. 5 Claims. (Cl. 158—91.)



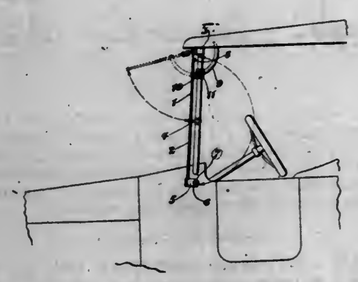
1. A burner comprising a gravity supply line, means for adjusting the flow of fuel from said line, a combustion chamber having therein a pan and a flue upward from the pan, said line serving as means for conducting a fuel supply for freely flowing therefrom for falling into the flue toward the pan centrally thereof, there being air supply ways into the flue in annular series adjacent the pan and adjacent the fuel supply into and through the flue, said flue having an upper discharge opening, means for confining distribution of air supply to the flue to below said discharge opening, and means for holding heat in the flue as a chamber to approximate incandescence.

1,455,811. METHOD OF UNITING METAL PLATES. JACOB C. SANDER, Lynn, Mass., assignor to Thompson Spot Welder Company, Boston, Mass., a Corporation of Massachusetts. Filed May 10, 1920. Serial No. 380,083. 6 Claims. (Cl. 719—10.)



1. The method of uniting metal parts consisting in applying an electrode to one side of the work and in contact therewith in line with the proposed weld, applying an electrode to the opposite side of the work said electrode having a depression in its contacting surface in the line of proposed weld, but being engaged with said opposite side of the work at both sides of said line, passing an electric current from one electrode to the other and applying pressure to weld the parts together.

1,455,812. AUTOMOBILE. LOUIS SCHAFER, St. Louis, Mo. Filed Nov. 15, 1920. Serial No. 424,037. 2 Claims. (Cl. 296—95.)

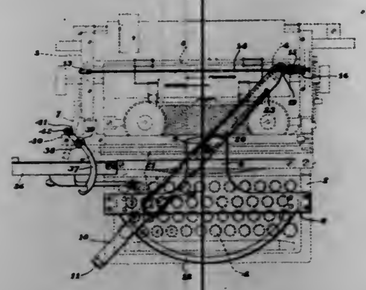


1. In an automobile, the combination with a wind shield, of a visor pivotally supported in front of the wind shield and comprising an upper panel and a lower panel pivoted to the upper panel, means for supporting the two panels folded one upon the other in an inclined position as a visor in front of the wind shield, and means for holding the two panels extended in an approximately vertical position in front of the wind shield to obstruct forward vision from the seating portion of the automobile.

1,455,813. TYPEWRITER. GEORGE F. SCHEFFER, Detroit, Mich. Filed Nov. 19, 1921. Serial No. 516,341. 6 Claims. (Cl. 197—65.)

1. In a typewriter the combination with its frame and its carriage movable in forward and reverse directions, of a hand operated lever fulcrumed on the frame and movable to and from a normal position, a flexible member connecting the carriage and the lever and adapted to move the carriage in the reverse direction when the lever is moved from its normal position, said member having a head thereon and said lever having a stop adapted to be

engaged by said head to cause the carriage to be moved forwardly by the lever when it is moved from its normal position, a spring connecting said head and said lever to



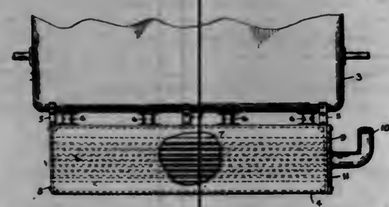
draw the head away from the stop to take up the slack in said member, and means for guiding said member between the lever and the carriage.

1,455,814. RAIL JOINT. SAMUEL SHULL, Philadelphia, Pa. Filed June 12, 1922. Serial No. 567,565. 5 Claims. (Cl. 238—225.)



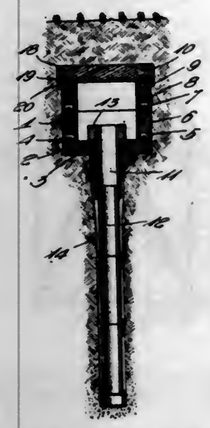
1. A rail joint comprising ends of rail sections having projecting portions; a connecting member between the projecting portions having sockets to receive the same: means in the sockets to limit longitudinal movement of the projections, and means in the sockets for preventing vertical movement of the connecting member.

1,455,815. INTERNAL-COMBUSTION MOTOR. WILLIAM J. SNADECKI, Bridgeport, Conn., assignor to Richard Crane, Washington, D. C. Filed June 14, 1917. Serial No. 174,788. 1 Claim. (Cl. 123—196.)



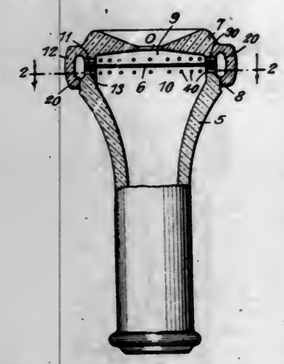
In combination with an internal combustion engine, tubes through which the air for combustion is passed, means in combination therewith for circulating the lubricating medium of said engine around said tubes, said tubes in a chamber beneath the crank case and a space between said chamber and said crank case for the circulation of air.

1,455,816. GRAVITY DRAIN. MARTIN W. STAPLETON, Muscatine, Iowa. Filed Oct. 20, 1921. Serial No. 508,910. 5 Claims. (Cl. 61—11.)



1. A gravity drain comprising a receiver composed of a bottom, and a continuous upright wall rising therefrom and formed of a plurality of loosely jointed sections, and a drain pipe leading from the receiver.

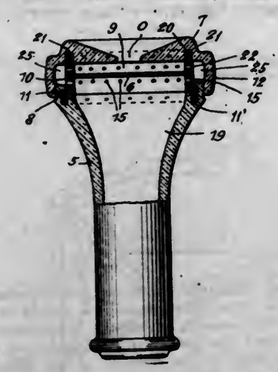
1,455,817. TELEPHONE OR OTHER SOUND RECEIVER. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Jan. 21, 1921. Serial No. 438,851. 3 Claims. (Cl. 179—115.)



1. A telephone receiver comprising a casing with a longitudinally extending perforated annular flange formed at one end thereof, a diaphragm seated on said flange, and a cap secured to said casing having a perforated annular flange engaging the opposite side of said diaphragm and adapted to exert an even pressure on the outer peripheral margin of the diaphragm, the said perforations leading into an annular chamber formed between the casing and cap.

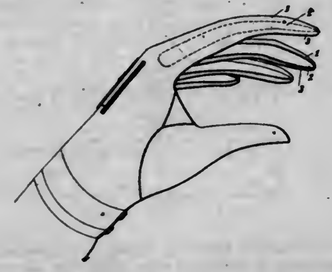
1,455,818. TELEPHONE OR OTHER SOUND RECEIVER. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Jan. 21, 1921. Serial No. 438,852. 5 Claims. (Cl. 179—115.)

2. A sound receiver comprising a casing having an annular metallic ring molded thereto, said casing having an outer threaded portion surrounding said ring, a cap having a threaded flange engaging said casing, an



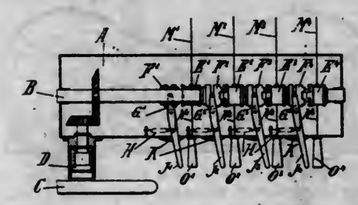
inner metallic ring spaced away from said flange to form an annular chamber and a diaphragm held between said metallic rings.

1,455,819. GLOVE. HANS SCHRÖDER-STRANZ, Rittergut Stranz, Western Prussia, Germany. Filed Aug. 24, 1921. Serial No. 494,965. 3 Claims. (Cl. 2—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



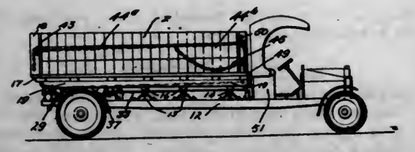
1. A glove the natural position of the fingers of which as a result of the manufacture approaches the position of the fingers of the closed hand.

1,455,820. CONTROLLING DEVICE FOR AERIAL VEHICLES. KARL STAHL, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany, a Corporation of Germany. Filed June 28, 1920. Serial No. 392,601. 3 Claims. (Cl. 244—3.)



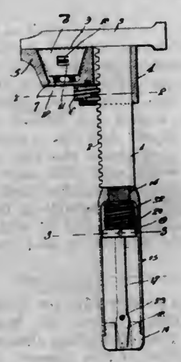
1. In a controlling device for aircraft in combination, pairs of valves, a shaft and means for rotating said shaft, a plurality of winding drums loose on said shaft, each drum being adapted to control a pair of valves, a traction rope connected with each drum, means for coupling any number of drums with said shaft and means for controlling each valve separately.

1,455,821. UNLOADING TRUCK. CHARLES A. SWANSON, Fridley, Minn., assignor of one-half to George W. Swanson, Fridley, Minn. Filed Aug. 6, 1920. Serial No. 401,720. 4 Claims. (Cl. 298—14.)



1. The combination with a pivoted unloading body, of a binder for a load of independent elements, end members for the load with which parts of said binder adjustably engage to render the binder taut for holding the load elements tightly bound together, while in carriage, and to afford slack to the binder, when the load is being dumped, so as to compensate for the buckling and avoid the breakage of the load elements in the unloading action and a cable connected to said body and adapted to connect with one of said end members, substantially as described.

1,455,822. WRENCH. RUDY VOINOV, Cleveland, Ohio. Filed May 25, 1921. Serial No. 472,608. 2 Claims. (Cl. 81—186.)

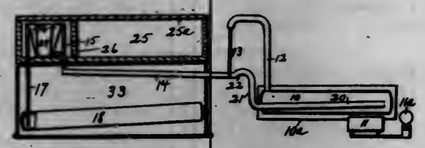


1. A wrench, comprising a shank, having a laterally projecting stationary jaw at one end, a main opposed laterally projecting jaw, movable on said shank towards and from said stationary jaw, and adapted to engage the same, said movable jaw provided with a recess in its engaging face, having oppositely inclined sides, and a loose jaw member mounted in said recess, said loose jaw member being wedge-shaped and adapted to engage with a rounded or irregularly shaped object, and said main movable jaw and stationary jaw member having flat surfaces adapted to engage with flat objects.

1,455,823. ICE MACHINE. HENRY E. WILLSIE, Darien, Conn. Filed Mar. 7, 1914, Serial No. 823,067. Renewed May 21, 1920. Serial No. 383,286. 16 Claims. (Cl. 62—118.)

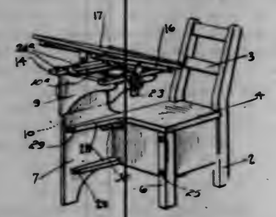
4. In an ice machine, an evaporator, a pipe communicating with said evaporator above the bottom thereof.

a passage through which a communication is established between the lower portion of said evaporator and said



pipe, and a thermally controlled valve for controlling the flow through said passage.

1,455,824. COMBINED CHAIR AND DESK. JACOB J. WOLFE, North Manchester, Ind., assignor to The Peabody School Furniture Company, North Manchester, Ind., a Corporation of Indiana. Filed Apr. 4, 1921. Serial No. 458,286. 4 Claims. (Cl. 155—128.)



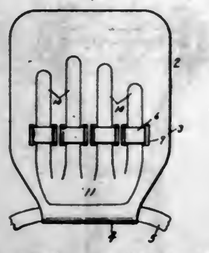
1. In combination with a chair having an upright standard positioned in front and at one side of said chair, a metallic supporting frame vertically slidable on the upper portion of said standard and having means for adjustable attachment thereto, spaced wooden slide bars horizontally slidable on the upper surface of said frame, metallic straps secured to said frame and overlying said slide bars suitably to permit longitudinal movement thereof, a desk top, spaced cleats mounted on the under side of said desk top, a pivot rod engaging the inner ends of said cleats and said slide bars, and means associated solely with said slide bars and said cleats for adjustably securing the desk top in angular position, said top being movable in its adjusted condition on said bars independently of said frame to variably space the same relative to said chair.

1,455,825. OPTICAL METHOD OF OBTAINING LINEAR DIMENSIONS. ROBERT W. WOOD, Baltimore, Md., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed June 15, 1921. Serial No. 477,716. 20 Claims. (Cl. 88—2.2.)



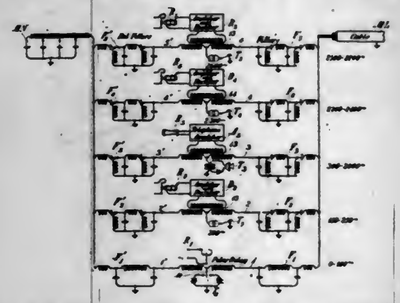
1. In an apparatus for determining the dimensions of an article, the combination of a rotatable support for said article, a table mounted thereon, two plates mounted on said table having plane surfaces contiguous with surfaces of the article being examined, said surfaces being adapted to transmit and reflect light waves received upon them, and means to determine an angle through which said support may be rotated.

1,455,826. SWIMMING APPLIANCE. PAUL L. L. YORGENSEN, Hartford, Conn., assignor of one-half to Alfred J. Gengras, Hartford, Conn. Filed Nov. 27, 1922. Serial No. 603,477. 1 Claim. (Cl. 9—21.)



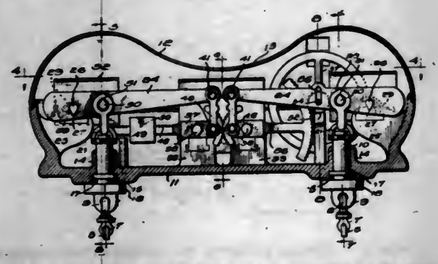
A swimmer's appliance involving a fan-shaped plate having loops to detachably receive the fingers of a user and also having channels to receive the fingers placed through the loops and also having a transverse channel to receive the hand at the junction of the fingers with the palm.

1,455,827. SELECTIVE CIRCUIT FOR MULTIPLEX TRANSMISSION. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1919. Serial No. 325,841. 6 Claims. (Cl. 179—4.)



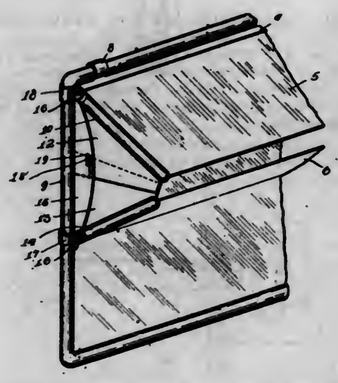
4. In a multiplex signaling system, a transmission circuit, comprising a grounded cable conductor, an artificial line or network, a plurality of signaling paths connected in multiple between said transmission circuit and artificial line, said artificial line simulating the impedance of the transmission circuit at the frequencies transmitted over each of said paths, and selective means in said paths for providing frequency discrimination between alternating currents transmitted over the paths.

1,455,828. COMBINED SCALE AND TONGS. ABRAHAM AGRONOFSKY, St. Joseph, Mo. Filed Oct. 4, 1921. Serial No. 505,332. 12 Claims. (Cl. 265—66.)



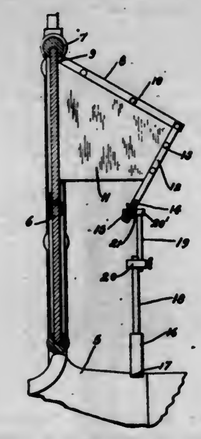
1. A combined scale and tongs comprising a handle, a scale arranged therein, suspension members secured to said scale and extending through said handle, tongs secured to said suspension members, and means for locking said suspension members to said handle.

1,455,829. STORM SHIELD. JOHN BAUER, Detroit, Mich. Filed July 24, 1920. Serial No. 398,801. 1 Claim. (Cl. 296—95.)



In combination with a wind shield, an auxiliary storm shield including opposed transparent sections, end members secured to the sections, end guarding sections having connection with the end members and adapted to overlap each other to permit of adjustment of the transparent sections, a securing plate having connection with the end members and overlapping the end guarding sections, means contacting with the end guarding sections for supporting the transparent sections in their positions of adjustment, and hook members on the sections to support the shield.

1,455,830. STORM SHIELD. JOHN BAUER, Detroit, Mich. Filed Nov. 3, 1920. Serial No. 421,516. 1 Claim. (Cl. 296—95.)



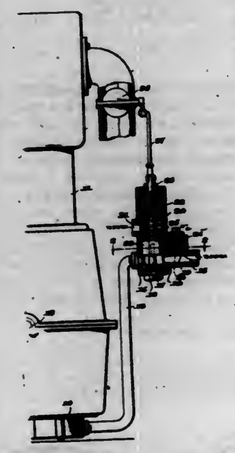
In combination with a wind shield and cowl of a motor vehicle, a wind shield protector including an upper section and a lower section, said upper section comprising side bars including pivotally connected sections, bracket members secured to the cowl, said bracket members having grooves, guarding members positioned in the grooves to permit of movement of the guarding members with respect to the bracket members, and means for connecting the upper and lower sections to permit of adjustment of the lower section with respect to the upper section, and guarding members carried by the upper section.

1,455,831. BELT BUCKLE. JOSEPH O. CHABOT, North Attleboro, Mass., assignor to Geo. L. Paine Co., North Attleboro, Mass. Filed Jan. 21, 1922. Serial No. 530,904. 4 Claims (Cl. 24—191.)



1. In a belt buckle, a front plate having top and bottom flanges, and having end projections extending inwardly therefrom, a cam pivoted between said flanges and having the ends of its outer side cut away, slotted guides carried by the flanges, and a guide of approximately C shape having its ends pivoted in the cutaway parts of the cam and having parts at its outer corners engaging in the slots of the slotted guides.

1,455,832. HYDROCARBON MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 15, 1919. Serial No. 297,385. 6 Claims. (Cl. 264—14.)

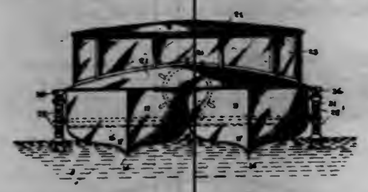


1. In combination with a hydrocarbon motor, an oil circulation system for lubricating said motor, a by-pass adapted to permit the passage therethrough of a predetermined quantity of oil at a predetermined pressure, and a second by-pass having a movable member operated by pressure beyond said predetermined amount, a throttle, and means connected to said member for operating said throttle.

1,455,833. BOAT. ARTHUR CLEMONT DALE, New Orleans, La. Filed Dec. 13, 1921. Serial No. 522,100. 2 Claims (Cl. 114—61.)

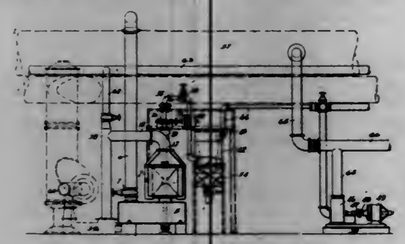
1. A boat comprising a duplex hull consisting of a pair of united hulls, the hulls having outer sides and a common vertically extending inner side and also having separate bottoms, each of said bottoms having a keel and a

pair of bottom sections flaring upwardly from the keel to the sides of the hull, the adjacent bottom sections of the hulls merging into the common side at a point a sub-



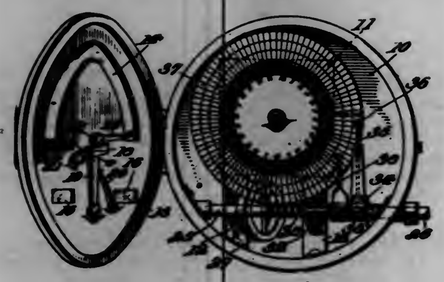
stantial distance above the water line to define a substantially closed intervening air space between the hulls, said air space extending the entire length of the hulls.

1,455,834. METHOD OF AND APPARATUS FOR CLEANING GASES. AMBROSE N. DIEHL, Duquesne, Pa. Filed Aug. 5, 1919. Serial No. 315,519. 7 Claims. (Cl. 183—34.)



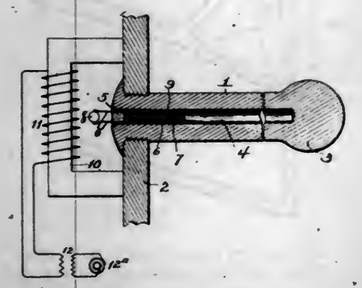
1. The method of cleaning gases which consists in passing a column of gases through a screen to retard and arrest the passage of finely divided materials therethrough, reversing the direction of flow of portions of the gases through successively different parts of said screen and increasing the velocity of said reversed flow to thereby remove the retarded and arrested materials from the screen, passing the withdrawn or reversed flow of gases through a separator to remove the arrested materials therefrom, imparting a centrifugal whirling motion to said gases in said separator, and returning said reversed or withdrawn gases to the uncleaned column of gases to be again passed through said screen.

1,455,835. COMBINED INDICATOR AND RECORDER. HENRY J. DOOLAN, Washington, D. C. Filed Nov. 20, 1920. Serial No. 425,405. 10 Claims. (Cl. 234—31.)



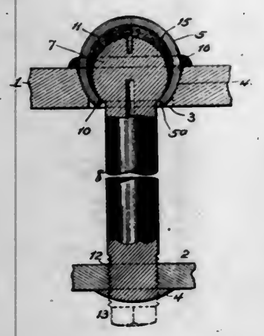
1. A combined indicator and recorder comprising a marker, a movable abutment member, a speed responsive element operatively connected with said marker and said abutment member to impart reciprocations thereto, a chart positioned to be engaged by said marker, means imparting movement to said chart, an indicator member having a projection, and a movable support for the indicator member normally maintaining the latter in a position to bring said projection into the path of movement of said abutment member.

1,455,836. MEANS FOR TESTING STAY BOLTS IN BOILERS. JOHN ROGERS FLANNERY, BENJAMIN E. D. STAFFORD, and ETHAN I. DODDS, Pittsburgh, Pa., assignors, by mesne assignments, to Flannery Bolt Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 11, 1917. Serial No. 190,786. 3 Claims. (Cl. 85—1.5.)



1. The combination with a stay bolt having a bore, of a coil within said bore, a material within said bore, and contacting with said coil, said material being such as will by contact with moisture cause severance of the wire of said coil, a translating device included in circuit with said coil, and means for inducing an electric current in said coil.

1,455,837. STAY-BOLT STRUCTURE. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors, by mesne assignments, to Flannery Bolt Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 10, 1919. Serial No. 322,871. 2 Claims. (Cl. 85—1.5.)



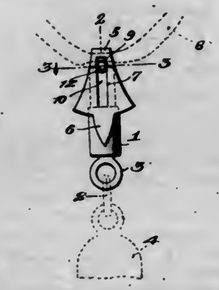
1. In a staybolt structure, the combination with a boiler sheet having an opening, of a combined bearing member and closure having an initial universally movable mounting on the boiler sheet coincident with said opening and adapted to permanently enclose the head of a staybolt, a staybolt having a head mounted in said member, and a weld securing said combined bearing member and closure to the boiler sheet.

1,455,838. CORDAGE WRAPPER AND PACKAGE. HERMAN L. GREVE, New York, N. Y. Filed June 2, 1920. Serial No. 386,025. 3 Claims. (Cl. 216—64.)



1. A package wrapper adapted to encircle a hank of cordage comprising a sheet of strong, flexible material, one end of which is provided with a perforation and the opposite end having a sinuous hook adapted to be passed through said perforation to couple the ends of the wrapper together.

1,455,839. EMBLEM HOLDER. ROBERT W. HAMILTON, Providence, R. I. Filed Aug. 10, 1922. Serial No. 580,902. 4 Claims. (Cl. 24—263.)



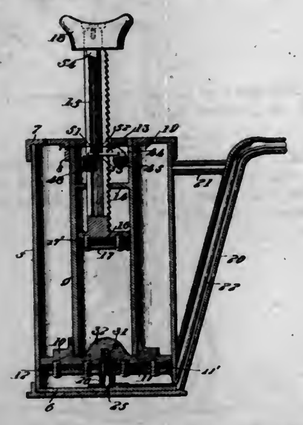
1. In a jewelry holder for chains, a tubular body closed at one end, means to attach an article of jewelry to the closed end of the body, a jaw having a tubular shank slidable in the tubular body, a coil spring in the shank abutting the jaw and the closed end of the body at its ends, a pin carried by the jaw, and a U-shaped member having its arms secured to opposite sides of the tubular body and having longitudinal slots in its arms receiving the ends of the pin therethrough, the closed end of the U-member forming a jaw and the sides of the member being open to allow the chain to be passed therethrough and engaged with and between the two jaws.

1,455,840. VANITY CASE. GEORGE C. HILL, Yonkers, N. Y. Filed Feb. 9, 1922. Serial No. 535,257. 5 Claims. (Cl. 24—3.)



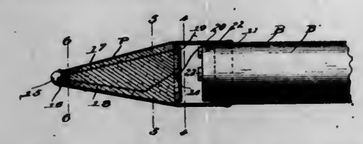
3. In combination with a garter, a vanity case, having a stud, a fastening member having a right angular end riveted to the case and formed to engage the stud, the garter being engaged between the member and case and between the stud and the right angular end of the member, said member being formed flat to lie flat against the limb of the wearer.

1,455,841. PNEUMATIC JACK. WILLIAM F. KELLY, Greenwood, Miss. Filed July 5, 1921. Serial No. 482,442. 11 Claims. (Cl. 138—9.)



1. A jack including an outer cylinder, an inner cylinder mounted in the outer cylinder and having a piston and engaging the said outer cylinder, a rack arranged slidably in the inner cylinder and having a piston engaging the inner cylinder, means for admitting air to the outer cylinder, below the piston carried by the inner cylinder, and valve means for directing the air first into the inner cylinder for raising the rack, and then into the outer cylinder for raising the inner cylinder, said valve operating when the outer cylinder is opened to the atmosphere to allow exhaust of the air first from the outer cylinder and then from the inner cylinder, substantially as described.

1,455,842. IMPLEMENT FOR WRITING. WILLIAM F. KELLY, Greenwood, Miss. Filed Mar. 23, 1922. Serial No. 546,067. 9 Claims. (Cl. 219—31.)

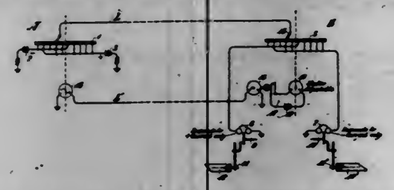


1. A device of the character described, comprising a barrel, an electric storage battery positioned within said barrel, a metal writing point carried at the one end of said barrel adapted to be heated a predetermined degree with the passage of an electric current therethrough, and means whereby the battery will be automatically connected to cause a current to pass through said writing point when said barrel is elevated with respect to the writing point.

1,455,843. SYSTEM FOR MEASURING DISTORTION. MACLEAN KIRKWOOD, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 7, 1920. Serial No. 356,974. 4 Claims. (Cl. 178—44.)

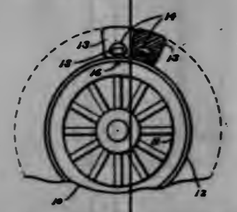
1. In a signaling system, means for indicating the transmission character of a line, comprising means at

one end for impressing a signal on the line, means at the other end for receiving the signal, and recording



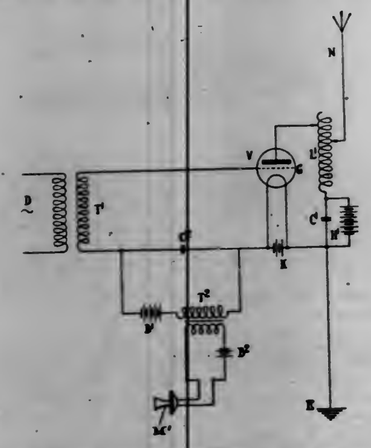
means responsive to the difference between the transmitted and the received signal.

1,455,844. VEHICLE WHEEL. JOHN LANG, Philadelphia, Pa., assignor of one-half to Frank Peer, Philadelphia, Pa. Filed June 10, 1921. Serial No. 476,516. 3 Claims. (Cl. 152—9.)



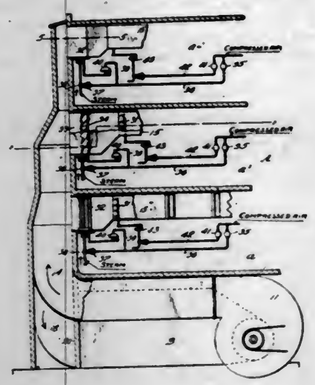
1. In a vehicle wheel the combination of a felly, an annular ring peripherally mounted around said felly, a series of transversely disposed resilient blocks detachably mounted on the outer face of said annular ring, a transverse opening through the body portion of each of said resilient blocks, a clamping member passed through said opening in each of said blocks and engaging the body portion thereof, and fastening means engaging said clamping member and said annular ring detachably fastening said clamping member thereto and thereby locking the blocks in operative relation to the wheel.

1,455,845. MODULATED SIGNALING SYSTEM PARTICULARLY APPLICABLE TO WIRELESS SIGNALING. NORMAN LEA, London, England. Filed May 2, 1921. Serial No. 466,205. 8 Claims. (Cl. 250—6.)



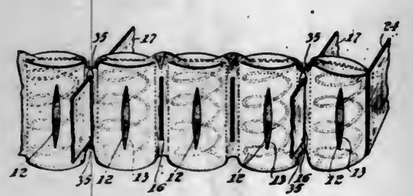
1. In a radio telephone transmitting system including a thermionic valve, means for modulating the electrical variations of the control electrode of said valve, said means comprising a source of unmodulated high frequency potentials, a modulating source of variable potential, and a source for supplying a fixed negative potetial of greater magnitude than that sufficient to reduce the anode current approximately to zero, said sources being connected to said control electrode.

1,455,846. AIR-CONDITIONING OR HUMIDIFYING AND HEATING SYSTEM. LEO L. LEWIS, Plainfield, N. J., assignor to Carrier Engineering Corporation, New York, N. Y. Filed Feb. 20, 1920. Serial No. 360,263. 13 Claims. (Cl. 236—44.)



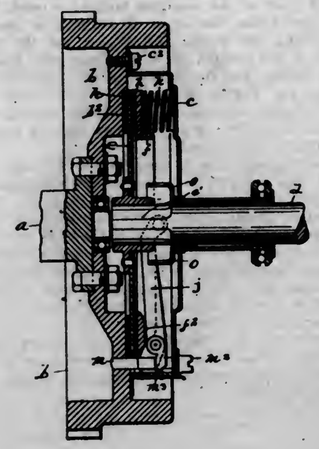
1. In an air conditioning system, the combination of an air conditioner, air supply and return flues connecting the conditioner with a room or rooms, fresh and return air dampers controlling respectively the admission of return air from the room or rooms and fresh air to the conditioner, a relief damper for permitting escape of the return air, regulating means for actuating said fresh and return air dampers for controlling the humidity of the air supplied to the room or rooms by the conditioner, said means causing one of said dampers to open as the other closes, and means also controlled by said regulating means for opening or closing said relief damper correspondingly as said fresh air damper is respectively opened or closed.

1,455,847. MATTRESS, CUSHION, AND SEAT. CHARLES C. MEUTSCH, Buffalo, N. Y. Filed Feb. 24, 1920. Serial No. 360,936. 5 Claims. (Cl. 5—13.)



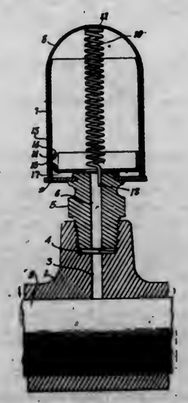
1. A device for the purpose described comprising in combination parallel rows of fabric pockets, a spring for each pocket permanently enclosed therein, and a lacing separate from and extending lengthwise between the several rows of pockets, and connected at intervals to and adjacent the ends of said pockets.

1,455,848. CLUTCH. ALFRED MOORHOUSE, Jackson, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 28, 1917. Serial No. 198,645. 3 Claims. (Cl. 192—68.)



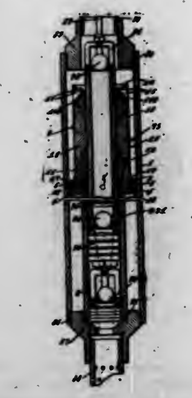
3. In a clutch, the combination with a driving member having separated elements, a driven element, and a pressure plate arranged between the driving elements and having spring means for engaging it with the driven element, of a pin having its ends extending into the driving elements and having an enlarged intermediate part adapted to engage the pressure plate and forming a shoulder, and a lever pivoted to the pressure plate and having a part engaging said shoulder to relieve the clutch.

1,455,849. LUBRICATING CUP. JOHN G. MUELLER, CARL A. GRANZOW, and HENRY M. GRANZOW, Dayton, Ohio. Filed May 31, 1921. Serial No. 473,616. 2 Claims. (Cl. 184—84.)



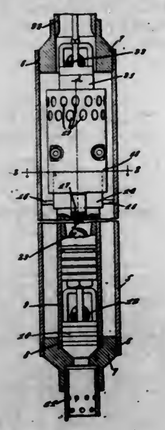
1. A lubricating device comprising an air tight cup having an oil orifice, a valve to control said orifice and a cover adapted to fit over the cup and to act on the valve to permit oil in the cup to flow between the cup and cover.

1,455,850. SAND SWAB. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Filed Aug. 30, 1921. Serial No. 496,863. 4 Claims. (Cl. 103—220.)



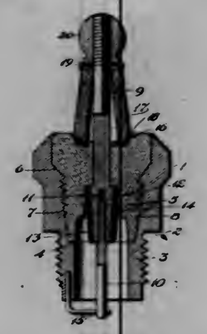
1. In a device of the class described, a casing, a working barrel within the casing, a plunger operating within the working barrel, a sand trap mounted on the working barrel and comprising members mounted for movement toward and away from each other; and spring means for moving said members toward each other.

1,455,851. PUMP SWAB. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Filed Mar. 21, 1922. Serial No. 545,444. 5 Claims. (Cl. 103—220.)



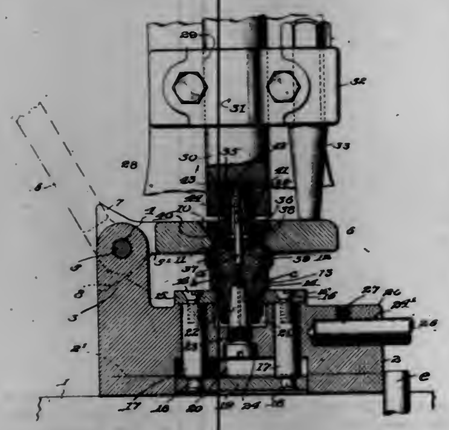
1. In a device of the character described, a casing, a head at each end of the casing, a working barrel within the casing and disposed in spaced relation therewith to provide a sand pocket, a head secured to the upper end of the working barrel, an adjustable sand trap having means adapted to cooperate with the head to secure the same in position, said adjustable sand trap having an inclined upper edge adapted to trap sand, said wall having openings to direct material from the sand trap to the sand pocket.

1,455,852. SPARK PLUG. D FRANKLIN PYLE, Washington, D. C., and JAMES ANDERSON, Catonsville, Md. Filed Oct. 27, 1921. Serial No. 510,752. 3 Claims. (Cl. 123—169.)



1. A spark plug comprising a shell adapted for attachment to the cylinder of an explosive engine, an insulating core of glass or other analogous material in the upper part of said shell, and having a cavity in the lower part thereof, a primary electrode part of which is embedded in the glass core, said electrode having a portion extending into the cavity in the lower end of said core, the portion of said electrode within the cavity being surrounded by a sleeve of insulating material of different character from the core, said sleeve also surrounding a portion of the electrode which is embedded in the core, a secondary electrode secured to the lower part of the shell and extending into sparking proximity with the lower end of the central, or first mentioned electrode.

1,455,853. APPARATUS FOR MAKING SPARK PLUGS. D FRANKLIN PYLE, Washington, D. C., and JAMES ANDERSON, Catonsville, Md. Filed Oct. 27, 1921. Serial No. 510,754. 6 Claims. (Cl. 49—66.)

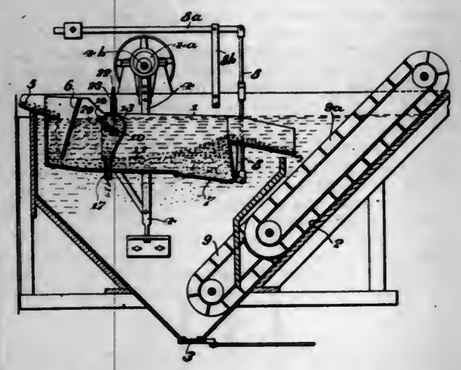


1. A mold of the character described comprising a base, an ejector movable vertically therein and comprising in part an annular seat for the article to be filled, a lid having an aperture therein, said lid adapted to rest upon and hold in place said article, and said aperture serving for the passage of the material to be filled into the article, and also as an entrance opening for a suitable plunger, a pressure applying plunger adapted to apply pressure to the material with which the article is filled, and means for actuating said plunger.

3. A mold comprising a base, an ejector in said base formed in part of an annulus forming a seat for the article upon which the mold is adapted to operate, a cavity-forming die within the ejector for the purpose set forth, a lid pivoted above the seat and having an aperture therein for the passage of the material to be filled into the article, and also for the entry of the plunger for applying pressure to the filler of said article, said lid being adapted to prevent movement of the article both vertically and laterally.

4. A mold comprising a body having a flange around its lower edge adapted to cooperate with suitable stops upon a suitable support to hold the mold in a definite predetermined position, an ejector in said mold comprising in part an annular seat for the article upon which the mold is adapted to operate, a cavity-forming die within the annular seat, a lid above said seat adapted to rest upon the article to simultaneously prevent its movement in vertical or lateral direction, said lid having an aperture therein for the passage of the filler of the article, and also for the entry of a pressure applying plunger that operates upon the filler, means for actuating the plunger, and means for actuating the ejector for the purposes set forth.

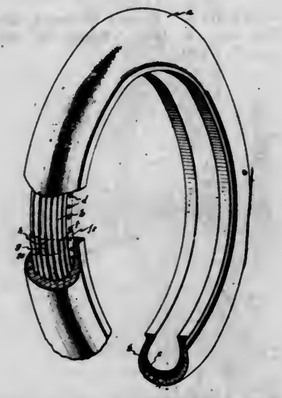
1,455,854. SKIMMING DEVICE FOR COAL JIGS. EDGAR T. ANDERSON and WILLIAM MORGAN, Scranton, Pa. Filed Mar. 15, 1921. Serial No. 452,487. 9 Claims. (Cl. 83—80.)



1. A jig for washing coal or other similar material, having a device for separating relatively light material from said coal or other material, the said device comprising means for skimming the floating material from the top surface of the water in the jig tank, and for catching such lighter material as may be within the body of the water and above the top surface of the bed of coal in the jig, and means for discharging the said material from the said jig into the jig tank when the water is withdrawn from the latter, whereby the said material is withdrawn with the water from said jig tank.

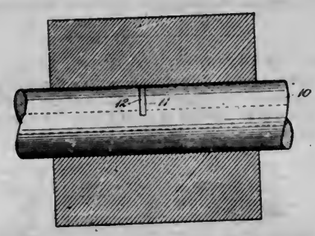
1,455,855. PNEUMATIC-TIRE CASING. HERBERT F. ANDAICH, Detroit, Mich. Filed Apr. 11, 1921. Serial No. 460,354. 1 Claim. (Cl. 152—18.)

An improved casing for pneumatic tires composed of a rubber tread portion, a fabric backing for the tread portion, a one-piece concaved longitudinally-corrugated metal plate interposed between said rubber tread and fabric backing, said plate provided with a marginally disposed series of perforations on each side thereof through which the rubber of the tread extends and adheres to the



fabric backing on the opposite side of the plate, the free ends of said plate provided with registering slotted portions adapted to co-act to receive end thrust and interlock together against relative movement.

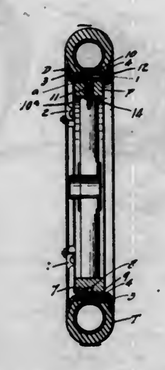
1,455,856. MANUFACTURE OF HOLLOW STEEL OR IRON BARS, TUBES, SHAFTS, ROCK DRILLS, AND THE LIKE. REGINALD A. BEDFORD, Sheffield, England. Filed Dec. 1, 1922. Serial No. 604,432. 2 Claims. (Cl. 80—62.)



1. That process of forming tubes from hollow billets which consists in placing the billet on a mandrel of the required interior diameter of the tube and having a weakened central portion, forming the billet into an elongated cylinder on said mandrel, applying tensile stress to the mandrel at the opposite ends thereof to fracture the weakened portion, and withdrawing the broken mandrel sections from opposite ends of the formed billet.

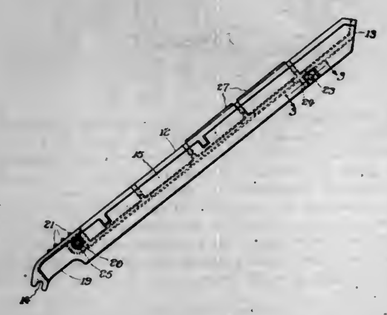
1,455,857. SECTIONAL RIM. AMOS BENNETT, Chesapeake, Ohio, and JAMES H. HATCHETT, Huntington, W. Va. Filed Mar. 11, 1922. Serial No. 543,029. 1 Claim. (Cl. 152—21.)

In combination with the felly of a wheel, a sectional rim mounted thereon, said rim comprising two separable circular sections each having tire engaging means, said sections when applied overlapping, the inner section having a pair of substantially diametrically opposed open slots, said slots being directed transversely of the section and having their open ends at the same side of the section; the outer section being provided with an inwardly directed pin disposed through one of said slots when the sections are assembled, the felly being provided with a recess into which said pin extends, the outer section being also provided with an opening registering with the second open slot of the inner section, the stem of the inflating valve of a tire being insertible through said registering



opening and slot when the tire is mounted upon the rim, and means carried by the felly for holding the sections of the rim against lateral separating movement.

1,455,858. FURNACE SECTIONAL DEAD GRATE WITH BRICK INSERTS. FRANK B. BIGELOW, Detroit, Mich., assignor to Murphy Iron Works, Detroit, Mich., a Corporation of Michigan. Filed Feb. 20, 1922. Serial No. 537,720. 14 Claims. (Cl. 126—152.)



11. A furnace-dead grate section having a plate with an inwardly-extended ledge on its inner face for the greater portion of its length between its upper and lower edges, a plurality of spaced braces joining the top face of said ledge with the inner face of said plate, a brace beneath one of said upper braces connecting the lower face of said ledge with the inner face of said plate beneath said ledge, said plate having an inwardly-offset apertured part adjacent to said lower brace and below said ledge, said plate also having an inwardly-extended plate-section along its top edge below the lower-most brace above the ledge, said plate beneath said top plate-section and adjacent to said lowermost brace having an inwardly-offset apertured part.

1,455,859. TAPE FEED AND MOISTENING MACHINE. RUFUS MARION BROOKS, Roseburg, Oreg. Filed Nov. 7, 1921. Serial No. 513,534. 10 Claims. (Cl. 91—14.5.)

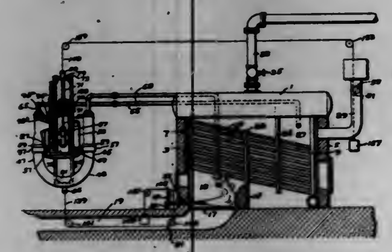
1. A device of the character described, comprising a

pivoted guide way for a tape, a wheel associated with the guide way, means for engaging the wheel with the tape



when the wheel is active and separating the tape from the wheel when the latter is inactive.

1,455,860. REGULATING APPARATUS. FRANCIS H. BROWN, Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass., a Corporation of Delaware. Filed Apr. 16, 1920. Serial No. 374,395. 6 Claims. (Cl. 236—15.)



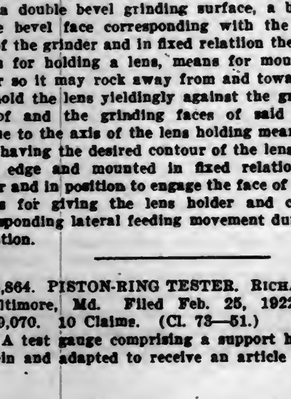
1. The combination of a furnace having a combustion chamber, means for controlling the supply of air to the combustion chamber, means for controlling the passage of the gases of combustion from the combustion chambers, a regulator responsive to differential pressures, means for subjecting the regulator to the difference in pressure between two points within the furnace, and power operated means controlled by the regulator and adapted to regulate the air controlling means and the controlling means for the gases of combustion.

1,455,861. ANIMAL POKE. HAROLD BROWN, Dacoma, Okla. Filed Oct. 12, 1920. Serial No. 416,401. 3 Claims. (Cl. 119—138.)



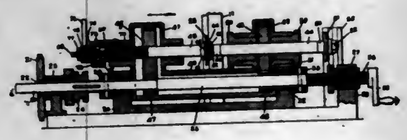
1. An animal poke including a poke bar, a sectional yoke having its inner ends adjustably and detachably connected to the poke bar and arranged in spaced relation and the outer ends overlapped and adjustably and detachably connected.

1,455,862. WINDMILL. ANTONI BRZYKCY, Minneapolis, Minn. Filed Dec. 8, 1921. Serial No. 520,853. 7 Claims. (Cl. 74—102.)



1. In a windmill, the combination with a rotatable head, of a wind wheel having a shaft journaled on the head, a shaft secured for rotation with the head, a driving shaft, wheels on the wind wheel shaft and the driving shaft, a belt drive arranged to run over said wheels, and means carried by the shaft secured to the head for changing the direction of travel of the belt drive.

1,455,863. LENS-EDGING MACHINE. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed June 16, 1919. Serial No. 304,689. 6 Claims. (Cl. 51—101.)

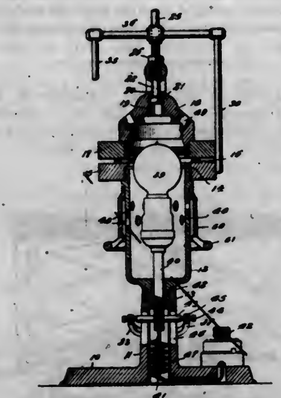


1. A lens edging machine including a rotatable grinder with a double bevel grinding surface, a block having a double bevel face corresponding with the grinding surface of the grinder and in fixed relation thereto, rotatable means for holding a lens, means for mounting the lens holder so it may rock away from and toward the grinder and hold the lens yieldingly against the grinding surface thereof and the grinding faces of said grinder being oblique to the axis of the lens holding means, a controller form having the desired contour of the lens with a double bevel edge and mounted in fixed relation to the lens holder and in position to engage the face of said block, and means for giving the lens holder and controller form corresponding lateral feeding movement during the edging operation.

1,455,864. PISTON-RING TESTER. RICHARD H. BUSICK, Baltimore, Md. Filed Feb. 25, 1922. Serial No. 539,070. 10 Claims. (Cl. 73—51.)

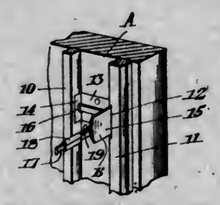
1. A test gauge comprising a support having openings therein and adapted to receive an article to be tested, a

member also provided with openings and mounted above the support and capable of universal movement and



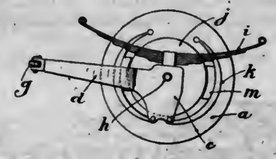
adapted to rest upon the article and a source of light located within the openings provided in the support and member.

1,455,865. WINDOW-SASH LOCK. CHARLES GEORGE CALLAN, Bengough, Saskatchewan, Canada. Filed June 5, 1920, Serial No. 386,776. Renewed Oct. 24, 1922. Serial No. 596,684. 2 Claims. (Cl. 292—204.)



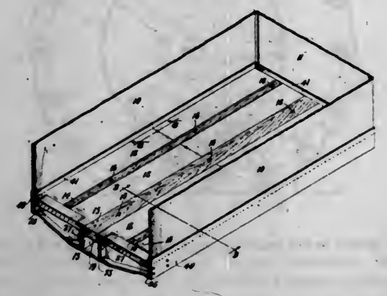
1. A window lock comprising a U-shaped member designed to be secured to a window frame, the arms of the U-shaped member being outwardly disposed, an angle shaped locking member pivotally mounted in the U-shaped member, and means carried by the locking member for mounting the said locking member in the desired position.

1,455,866. FRAME FOR VEHICLES TRAVELING UPON RAILWAYS. HERBERT FRANCIS EDOUARD LUCIEN CALLOT, Nancy, Meurthe-et-Moselle, France. Filed Nov. 8, 1922. Serial No. 599,718. 2 Claims. (Cl. 105—165.)



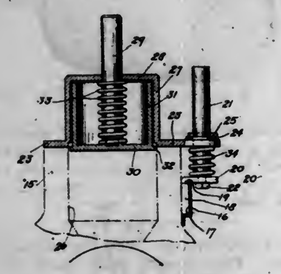
1. A vehicle frame comprising in combination for each pair of wheels, journals for said wheels, short longitudinals respectively supporting said journals, inclined arms integral with said longitudinals and assembled to each other at a point in the median longitudinal plane of the vehicle, means for pivotally connecting the said inclined arms to the vehicle body at said point, a rigid cross member extending between the said logitudinals and forming with said inclined arms an indeformable triangular structure adapted to pivot about said point and springs secured on said longitudinals and adapted to be connected to the vehicle body.

1,455,867. METAL CAR STRUCTURE. IRA S. DOWNING, Indianapolis, Ind. Filed Aug. 7, 1922. Serial No. 580,000. 32 Claims. (Cl. 105—414.)



1. A car floor comprising metal floor plating with a gap therein, and nailing timber exposed through said gap.

1,455,868. LUBRICATOR. JAMES L. DOWNS, New York, N. Y. Filed Dec. 22, 1921. Serial No. 524,112. 1 Claim. (Cl. 184—45.)

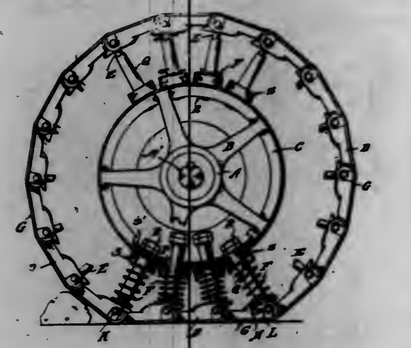


A lubricating grease cup attachment comprising in combination with a grease cup having an open cylindrical top, of a support detachably engaged with the cup at one side thereof, a stud fixed in said support, a circular plate having a projection rotatably mounted on said post, a compression spring interposed between said support and plate projection encircling said stud, means for retaining the projection on said stud, said plate being registerable with the open upper end of the grease cup, a cylinder formed with said plate having a closed outer end, the inner portion of said cylinder agreeing with the opening in said cup, a guide stem passing axially through said cylinder, a head in which said stem is fixed, said head being adapted to enter the grease cup, an annular guide formed with said head extending into said cylinder, and a coiled compression spring encircling said stem abutting the closed end of said cylinder and said head respectively.

1,455,869. TRACTION WHEEL. LOUIS J. FELLAY, Peoria, Ill. Filed Dec. 13, 1919. Serial No. 344,673. 4 Claims. (Cl. 152—30.)

1. In a wheel, a rim or tread therefor including in its construction a series of jointed links, an annulus fixed with respect to the wheel hub, and a series of spokes each hingedly mounted at one end at the joint of each

pair of the links and projecting at its other end through said annulus, the latter having countersunk holes therein,



the spokes being flared to seat therein, the flared portions being adjustable upon the spokes, and compression springs interposed between the links and the annulus.

1,455,870. BATH SPONGE. GEORGE FIERHELLER, Toronto, Ontario, Canada. Filed July 29, 1921. Serial No. 488,403. 3 Claims. (Cl. 15—244.)



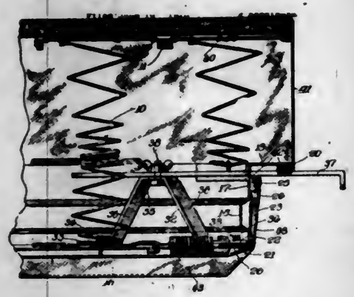
1. A bath device comprising a core of elastic absorbent material and a tubular knitted envelope formed with a double thread for the major portion of its length and with single thread ends, which are drawn in to hug the ends of the core.

1,455,871. SAND TRAP. JESSE M. FLEMING, Drumright, Okla. Filed June 7, 1921. Serial No. 475,671. 2 Claims. (Cl. 103—220.)



1. In a device of the character described, a pipe having openings formed therein, a strainer disposed at one end of the pipe, a flared collar secured to the pipe adjacent to the strainer, a cone-shaped collar secured to the pipe and disposed in spaced relation with the flared collar, and means secured to the pipe between the flared collar and cone-shaped collar for guarding the openings of the pipe.

1,455,872. BOX BEDSPRING. CHARLES H. GAIL, Cincinnati, Ohio, assignor to The Shott Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 19, 1920. Serial No. 390,073. 8 Claims. (Cl. 5—13.)

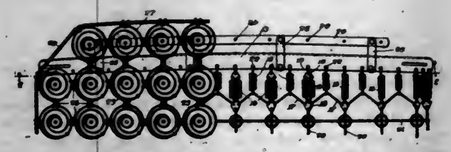


1. In an appliance of the character described, the combination of a bed-spring having a main supporting-frame with a pair of outside flanges, a fabric-cover for the top and upper portions of the sides of the bed-spring, a fabric cover for the bottom and lower portions of the sides of said bed-spring, and means detachably securing said covers directly to and having sliding engagement longitudinally on the respective flanges of said frame, the latter closing the space between the edges of said covers, substantially as described.

5. In an appliance of the character described, the combination of a bed-spring having a supporting-frame composed of a bar substantially Z-shape in cross-section, having a rib along the edge of its top flange, a plate fastened to the outer face of the web of such bar and having a rib disposed longitudinally of the bar and spaced away from its web, a fabric-cover for the upper portion of said spring, a second fabric-cover for the lower portion of said spring and hooks secured to said covers and detachably fastening such covers to said ribs, substantially as described.

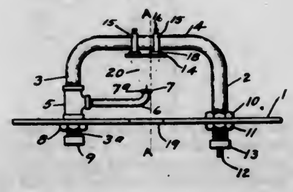
7. In a bed-spring, a rectangular frame composed of two longitudinal sheet-metal members, the one of substantially Z-shape in cross-section with a lengthwise hollow rib embossed in its web, the other welded to a face of said web and overlying the hollow interior of said rib, substantially as described.

1,455,873. BEDSPRING. CHARLES H. GAIL, Cincinnati, Ohio, assignor to The Shott Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 19, 1920. Serial No. 390,074. 1 Claim. (Cl. 5—29.)



In a bed-spring structure of the character described, the combination of a main frame having an upwardly-arched outwardly bowed foot-end cross-bar, a main-spring structure including a plurality of upright spiral-springs and underlying longitudinal supporting-elements for said spiral-springs, helical-springs connecting said longitudinal supporting-elements to said cross-bar, an auxiliary extension upwardly-arched outwardly-bowed cross-bar shorter than and mounted on said foot-end cross-bar, and a cross row of upright spiral-springs forming an extension portion of the bed-springs mounted on said auxiliary cross-bar, such row of springs being of less length than the cross rows of springs of the main-body of the bed-spring, substantially as described.

1,455,874. OIL BURNER. JOSEPH GILMORE, Seattle, Wash. Filed Aug. 5, 1921. Serial No. 490,037. 1 Claim. (Cl. 158—63.)



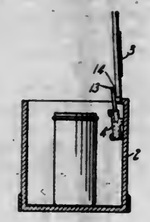
An oil-burner of the character described consisting of a substantially U-shaped pipe having legs of unequal length each of said legs externally threaded adjacent its end, a T-joint adapted to seat and be secured to the shorter leg, an L-shaped pipe carried by the lateral opening of the T-joint and extending between the legs of the first mentioned pipe and in the same plane therewith and having its short arm directed toward the base of the U; a base plate having three aligned orifices, the central orifice being larger than the end ones and the latter slightly larger than the external diameter of the U-pipe; nuts on the threaded longer end of the U tube adapted to secure said leg to said base when said leg is passed through one of said end orifices, said nuts being screwed up against opposite faces of the base; a nipple secured in the end of the T-joint and adapted to pass through the other end orifice of the base, a nut on said nipple, said nipple adapted to be secured to the base by the engagement thereof by the said T-joint and nut and a cap for closing said nipple substantially as specified.

1,455,875. TOWING DEVICE. JOSEPH F. GRAFF, Milwaukee, Wis. Filed Mar. 31, 1921. Serial No. 457,394. 1 Claim. (Cl. 280—33.55.)



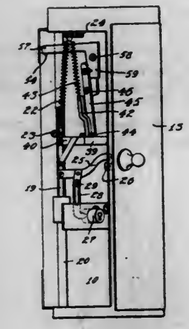
A towing device including a body bar with a transverse opening, bearing plates disposed at opposite sides of said bar, and being provided with centrally disposed openings in alignment with said transverse opening, an angle plate, a pivot stud formed on said angle plate adapted to extend through the openings in said bearing plates and body bar, the horizontal and vertical portions of said plate being provided with slots, a second angle plate mounted upon the horizontal portion of the first plate and having its vertical portions arranged in spaced relation with the vertical portion of the first plate and provided with a longitudinal slot, a bolt movable within the slot in the vertical portion of the plate and a second bolt carried by the horizontal portion of the second plate and movable in the slot in the horizontal portion of the first plate.

1,455,876. LID BRACE. LEON GRAUMAN, Denver, Colo. Filed Apr. 5, 1922. Serial No. 549,827. 12 Claims. (Cl. 217—60.)



1. A brace of the character described, comprising a channeled keeper open at its upper end, and a bar longitudinally slidable therein, the channel of the keeper having a recess in one of its edges, and the bar having at its corresponding edge, a foot adapted to enter said recess when the bar extends partially outside of the keeper through the opening at the upper end thereof.

1,455,877. DELIVERY BOX. JOSEPH GRIGAS, Shenandoah, Pa. Filed July 11, 1922. Serial No. 574,137. 13 Claims. (Cl. 232—41.)



1. A safety receptacle comprising a vertically movable container support, spring means opposing downward movement of said support under the influence of a container, a member adapted to confine a container upon said support, locking means operatively connected to said support, for locking said confining member in operative position when said support is depressed, and means for varying the spring resistance to the downward movement of said support whereby containers of different weights may selectively be required to cause said locking means to lock said confining member.

1,455,878. FUSE-PLUG PULLER. HAROLD D. GRINNELL, Pittsfield, Mass., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Mar. 3, 1922. Serial No. 540,770. 7 Claims. (Cl. 81—3.)



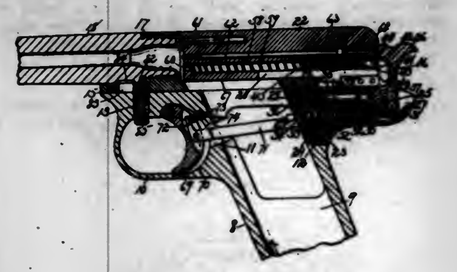
1. In a device of the class described, a support, and a series of clamping arms pivoted to the support and having jaw portions adapted to be moved into and out of cooperative relationship, each of said jaw portions having a concave gripping face and a rigidly acting extension member on said face adapted to cooperate with the object engaged to prevent rotation on such object.

1,455,879. GUARD FOR WRITING IMPLEMENTS. OLAF A. GRONLUND, Fargo, N. Dak. Filed Nov. 25, 1922. Serial No. 603,370. 1 Claim. (Cl. 24—3.)



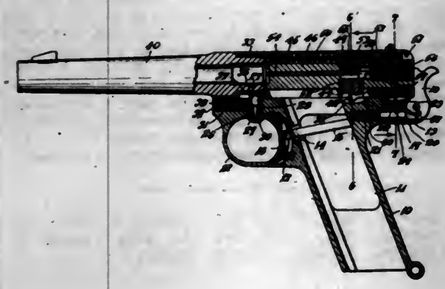
The herein described guard for writing implements, comprising a flexible element adapted to embrace the neck of a user, a loop embracing overlapping portions of the said flexible element and with relation to which the flexible element may slide, and writing devices attached to the ends of the flexible member.

1,455,880. FIREARM. GRANT HAMMOND, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, Mass., and one-third to Frederick G. Crane, Dalton, Mass. Filed Feb. 28, 1917, Serial No. 151,460. Renewed Apr. 12, 1923. 22 Claims. (Cl. 42—4.)



1. A firearm including a handle, a receiver slidably mounted on the handle and having a slot therein, a lock located in a hole in the handle and projecting into said slot, a lock operating member secured to said lock and located within the opening in the trigger guard of the firearm, and means for disengaging the receiver and said lock by impact of the breech bolt at the time it strikes the receiver.

1,455,881. FIREARM. GRANT HAMMOND, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, Mass., and one-third to Frederick G. Crane, Dalton, Mass. Filed July 20, 1917, Serial No. 181,855. Renewed Apr. 12, 1923. 7 Claims. (Cl. 42—4.)



1. A firearm including a frame, a receiver movably mounted on the frame, said parts having a chamber for the receiver actuating spring, an actuating spring located in said chamber, a controlling slot and retaining recess located in one of said parts (frame or receiver); a locking bolt located in the other part to engage said slot and recess, a breech-bolt movably mounted on the frame, and firing mechanism to actuate said breech-bolt.

1,455,882. MEMORIAL TABLET AND GRAVE MARKER. ELMON D. HARDING, Montevideo, Minn. Filed Feb. 25, 1922. Serial No. 539,203. 1 Claim. (Cl. 40—124.5.)

A combined casket plate, memorial tablet and grave marker having a substantially flat body provided with a bendable eye upon its rear face at one end and also provided with a bore extending therein at its opposite end,



and a stake detachably associated with the bore, as described.

1,455,883. EXPANDING BRACELET, BELT, OR THE LIKE. GEORGE WILLIAM HARRISON, London, England, assignor to G. R. Baldock & Co. Limited, London, England, a Company of Great Britain. Filed Aug. 9, 1921. Serial No. 490,957. 5 Claims. (Cl. 59—79.)



1. A spring controlled expanding bracelet, belt or the like, comprising a series of units each of said units consisting of a hollow link formed of strips connected together at their ends and open along their sides, a division wall between said strips forming housings for separate springs, an upper closed link having one end passing through the upper of said housings, a spring located between one end of said upper housing and one end of said upper link, a lower closed link having one end passing through the lower of said housings, a spring located between one end of said lower housing and one end of said lower link, in combination with connecting links adapted to connect the upper link of one unit with the lower link of an adjacent unit, for the purposes set forth.

1,455,884. SPLIT-LAP PREVENTER. WILLIAM HARROP, PETER REILLY, and PATRICK F. FARRELL, New Bedford, Mass. Filed Mar. 25, 1922. Serial No. 546,783. 12 Claims. (Cl. 19—145.)



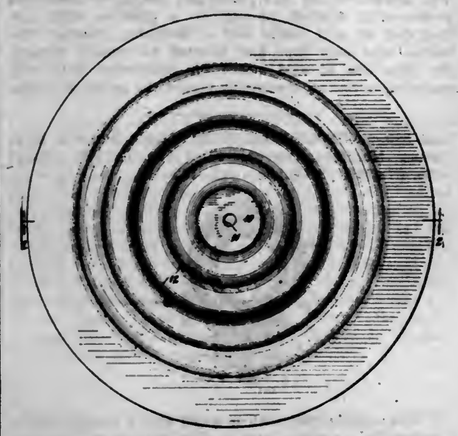
1. In a machine of the character described, the combination with a winding spool upon which the lap is wound, of means for disposing a separating thread in an approximately zigzag line upon the face of the lap prior to its passage to the winding spool.

1,455,885. TYPOGRAPH MECHANISM. WILLIAM A. READE, Evanston, Ill., assignor to Ludlow Typograph Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1920. Serial No. 429,058. 10 Claims. (Cl. 199—66.)



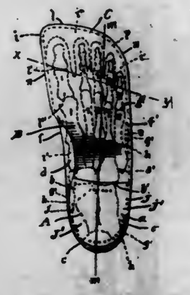
1. In typograph mechanism, a matrix bar having parallel sides and a character impression inclined with respect to such sides, said bar being formed with a plurality of relatively angularly inclined surfaces for alignment purposes.

1,455,886. PHONOGRAPH RECORD. WILLIAM H. ROSS, Jersey City, N. J., assignor of one-half to Howard S. Neiman, New York, N. Y. Filed Apr. 16, 1920. Serial No. 374,257. 3 Claims. (Cl. 274—41.)



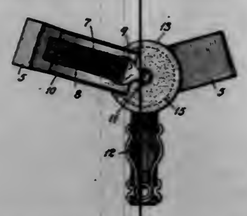
1. A single continuous disc phonograph record having a series of concentric undulations carrying sound wave impression capable of reproduction into sound waves.

1,455,887. SHOE. ORLANDO B. SALISBURY, Brooklyn, N. Y. Filed Sept. 12, 1921. Serial No. 499,927. 10 Claims. (Cl. 36—1.)



1. A shoe or footwear consisting of a heel portion, a metatarsal portion, and a toe portion having the inner toe edge on a straight line with the deflected lower side of said heel portion before the turn of the extension in front toward the median line of the wearer's toes, substantially as shown and described.

1,455,888. GARTER. LOUIS J. SCHEINMAN, New York, N. Y., assignor to Governform Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1921. Serial No. 501,402. 5 Claims. (Cl. 241—6.)



1. A garter comprising a band of inelastic material terminating at one end in a sleeve, a suspending device connected with said band at its other end and adapted for detachable connection with the hose, a fastening device located at said other end of said band, an elastic tape located within said sleeve and having its inner end permanently secured therein at a distance from the free end of said sleeve and a fastening member connected with said tape and adapted to project through the open end of said sleeve for connection with said fastening device to detachably secure the garter in place.

1,455,889. AUTOMOBILE TUBE. JOHN SCHWAB, Winnipeg, Manitoba, Canada. Filed Aug. 1, 1922. Serial No. 578,956. 8 Claims. (Cl. 152—13.)



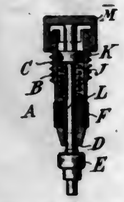
1. The combination with a wheel rim, a casing, and a tube within the casing and having channels in the face thereof next the casing, of means for introducing atmospheric air to the channels through the rim.

1,455,890. GAUGE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Aug. 12, 1915. Serial No. 45,166. 7 Claims. (Cl. 73—31.)



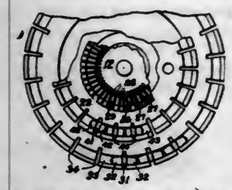
1. In a gauge, a casing, a deflating means at the foot of said casing, comprising a projecting part fixed in the foot of the casing, and a cap screwing on said fixed part, said cap having an opening therethrough and having a portion adapted to contact with the stem of a tire valve.

1,455,891. ATTACHMENT FOR VALVE INSIDES. MAXIMILIAN CHARLES SCHWEINERT, New York, N. Y. Filed May 20, 1922. Serial No. 562,503. 4 Claims. (Cl. 152—12.)



4. The combination with a valve inside having a seat and a valve proper, a spring carried by said inside, a pin connected with the valve proper against which said spring acts, and a member engaging the valve inside and said pin.

1,455,892. BEATER MECHANISM FOR BRAIDING MACHINES. HERMAN STAUB, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Jan. 12, 1923. Serial No. 612,187. 4 Claims. (Cl. 98—17.)

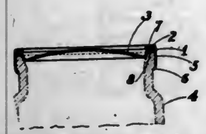


1. In a beater mechanism for braiding machines comprising an axial support and radially swinging beater elements having pivoting apertures; a pivot ring on said support having a circular pivot-pin groove and a series of intersecting radial slots, and a circular series of separately formed pivot pins engaged in said apertures and fixedly spaced in said groove.

1,455,893. UNVULCANIZED RUBBER COMPOSITION. FRANK WEBB STOCKTON, Pittsburgh, Pa., assignor to Aluminum Seal Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1921. Serial No. 512,498. 2 Claims. (Cl. 106—23.)

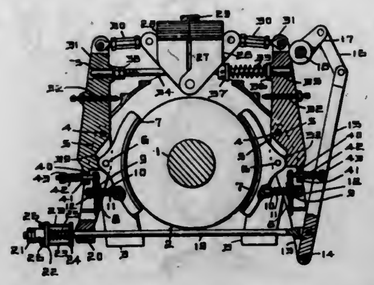
1. An unvulcanized rubber composition containing crude rubber, an inert filler, finely divided active gas black forming not less than about 15% of the composition, and a softening agent.

1,455,894. HERMETIC SEAL. FRANK WEBB STOCKTON, Pittsburgh, Pa., assignor to Aluminum Seal Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1921. Serial No. 512,590. 12 Claims. (Cl. 215—37.)



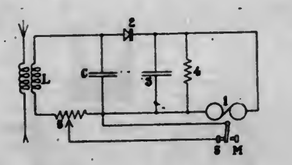
1. A hermetic seal made of an unvulcanized rubber compound containing finely divided active carbon dispersed therein to maintain stiffness and resilience even at elevated temperatures.

1,455,895. ELECTROMECHANICAL BRAKE. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed Nov. 12, 1918. Serial No. 262,113. 14 Claims. (Cl. 188—172.)



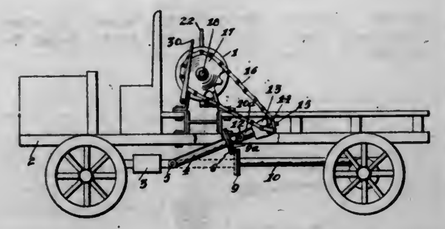
5. A brake drum, a brake shoe therefor, a pivoted mounting for the shoe to rock into position as to the drum, said mounting comprising an arm, a lever for actuating the arm, and means for actuating the arm to set the shoe against the drum independently of lever operation.

1,455,896. WIRELESS-TELEGRAPH RECEIVER. LAURENCE BEDDOME TUANER, Cambridge, England. Filed Feb. 9, 1921. Serial No. 443,636. 8 Claims. (Cl. 250—8.)



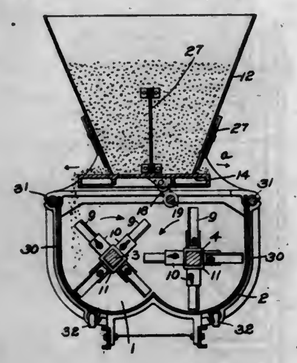
1. Apparatus for use in wireless telegraphy, comprising an oscillatory receiving circuit of relatively low decrement, a connection including a relay joined to the oscillatory circuit and means operated by said relay for increasing automatically the decrement of the oscillatory circuit when the amplitude of the current therein reaches the operative value.

1,455,897. HOISTING MACHINE. CLYDE UHL, Bartlesville, Okla. Filed Jan. 31, 1920. Serial No. 355,458. 4 Claims. (Cl. 254—166.)



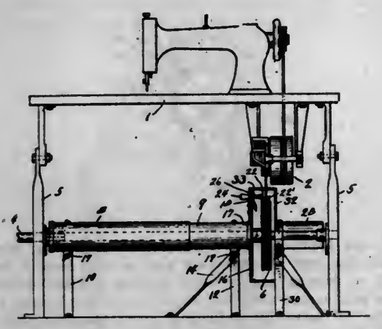
1. A vehicle including a driven shaft with a coupling plate, and hoisting mechanism with drive gearing including a coupling plate; and a swingably mounted engine-driven shaft with a corresponding coupling plate, interchangeably connectible with either aforesaid coupling plate, to operate either the vehicle or the hoisting mechanism.

1,455,898. CONCRETE MIXER. SHERBURNE H. WIGHTMAN, Birmingham, Mich., assignor, by mesne assignments, to International Concrete Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 14, 1920. Serial No. 396,104. 12 Claims. (Cl. 83—73.)



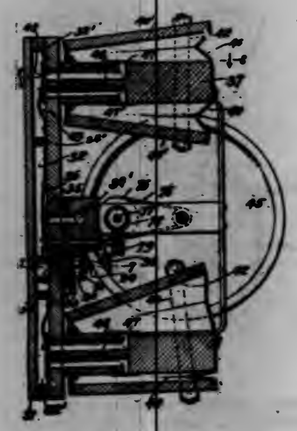
1. A mixing apparatus having in combination a mixing chamber having its bottom formed by troughs extending side by side, the end wall of the chamber having openings in line with the troughs for the discharge of materials, rotatable shafts arranged above said troughs and provided with arms adapted on the rotation of the shafts to pass transversely across the troughs in such direction that materials are moved outwardly across the troughs and over the shafts from one trough to the other and arranged to effect movement of materials along the troughs and out through the openings in the end of the mixing chamber, means for rotating the shafts in opposite directions and regulable means for feeding the material to the respective troughs.

1,455,899. SEWING-MACHINE-SHAFTING GUARD. JULIUS L. CABELINSKY, Roxbury, Mass. Filed Dec. 1, 1919. Serial No. 341,782. 2 Claims. (Cl. 64—12.)



1. A shafting guard comprising a cylindrically shaped casing open at one side to permit the same to be placed in position about the shafting, a pulley guard comprising a split sheet metal disk having a central aperture corresponding in diameter to the internal diameter of said casing, and rotatably mounted on said casing at one end, in register therewith, and belt-engaging means carried by said disk.

1,455,899. PRESSURE REGULATOR FOR MUSICAL INSTRUMENTS. TOLBERT F. CHEEK, New York, N. Y., assignor to The Phil-Har-Chee Piano Player Corporation, a Corporation of New York. Filed Apr. 1, 1920. Serial No. 370,611. 6 Claims. (Cl. 230—36.)



1. In an automatic player for musical instruments, the combination of a wind chest, a pump connected with said wind chest and provided with a by-pass for allowing a portion of the air set in motion by the pump to circulate within the pump, said by-pass including a valve chamber, a valve located in said chamber and controlling said by-pass, a valve-opening cam arranged in said chamber, and means in positive relation to the operation of said pump for driving said cam.

1,455,901. CLUTCH. MARK W. CHIPMAN, Lynn, Mass., assignor to Lynn Machine Screw Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 10, 1921. Serial No. 491,684. 3 Claims. (Cl. 192—46.)



1. An improved clutch comprising, a driving member, a driving cam, an elongated slot in said cam, a second slot, a driving pin on said driving member extending into said second slot, and a driven member having a plurality of outwardly extending arms engaging said cam to force the cam inwardly and allow free rotative movement of the driven with respect to the driving member.

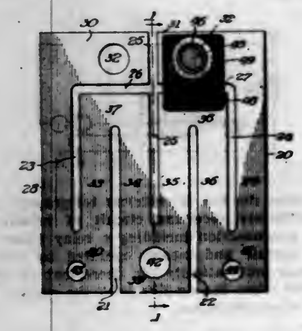
1,455,902. LAMP. HARRY CHRISTENSEN and EDMOND L. BRUNSWICK, Chicago, Ill. Filed Jan. 25, 1922. Serial No. 531,541. 8 Claims. (Cl. 240—2.)

1. In a support, a base, a hollow standard supported by said base and having an opening in one side thereof, the portion of said standard about said opening being adapted to support a picture or similar device opposite said opening, and a side of said standard opposite said



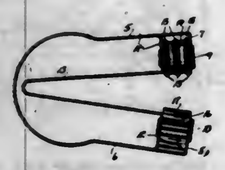
opening removable from said standard, the sides of said standard being arranged when in operative positions with their edges in interengaging relation.

1,455,903. RHEOSTAT. WILLIAM GUY CLARK, Oak Park, Ill. Filed May 9, 1921. Serial No. 468,184. 10 Claims. (Cl. 219—69.)



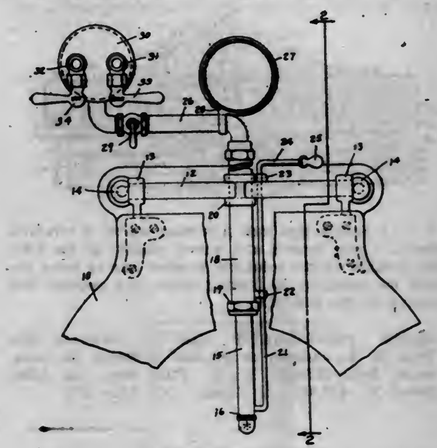
1. An electrical resistance grid having a reflexed strip, the adjacent edge portions of which are in different planes oblique to the general plane of the grid.

1,455,904. CHECK PROTECTOR. HARRY L. COIT, Bridgeport, Conn. Filed July 29, 1922. Serial No. 578,286. 2 Claims. (Cl. 101—24.)



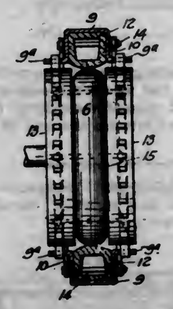
1. A check protector comprising a pair of connecting arms having inwardly-turned ends, a V-shaped spring arranged between said arms and formed at their outer ends with fingers connected with said arms, and abrading wheels mounted at the outer ends of said arms.

1,455,905. BIDET FOR CLOSET SEATS. ROBERT C. N. COOK, Lebanon, Ind. Filed Nov. 25, 1922. Serial No. 603,144. 8 Claims. (Cl. 4—25.)



1. In a device of the character described, the combination with a seat and a water supply pipe, of a spraying nozzle positioned adjacent the under side of said seat, and an operating handle located adjacent the side of said seat for sliding said nozzle longitudinally in and out of operative position whereby it will be positioned under said seat when in inoperative position and will slide forwardly and lingitudinally thereover when moved to operative position.

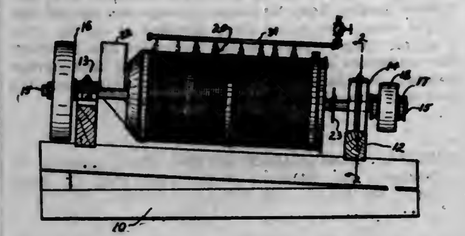
1,455,906. ENDLESS-TRACK STRUCTURE FOR MOTOR-DRIVEN VEHICLES. WALTER CECIL COX, Denver, Colo. Filed Mar. 1, 1920. Serial No. 362,220. 2 Claims. (Cl. 305—10.)



2. In a motor-vehicle of the character described, a traction-wheel having a tire and series of sprocket-teeth at opposite sides thereof, and an endless track composed of linked sections each consisting of a retainer having flanges which are apertured to cooperate with the sprocket-teeth, and a nonmetallic filler in the retainer engaging the tread of the tire.

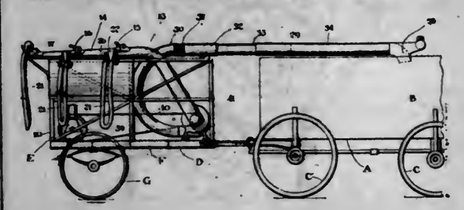
1,455,907. VIBRATING TROMMEL SCREEN. ARTHUR C. DAMAN, Denver, Colo. Filed June 20, 1922. Serial No. 569,610. 6 Claims. (Cl. 82—56.)

1. A trommel screen comprising a shaft, one extremity of said shaft being carried in a pivoted bearing, the opposite extremity in a flexibly mounted bearing; a cylindrical screen rigidly mounted on said shaft between said bearings; means for causing said shaft to gyrate in said



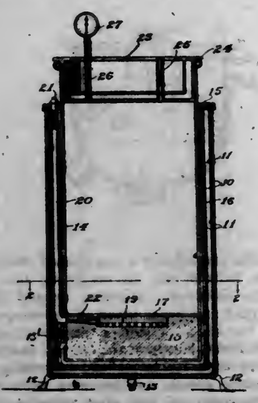
flexibly mounted bearing and means for causing said shaft to simultaneously revolve.

1,455,908. COTTON HARVESTER AND CONVEYER. DANIEL DANIEL, Little Rock, Ark. Filed Sept. 14, 1920. Serial No. 410,196. 5 Claims. (Cl. 302—27.)



1. In an apparatus of the character described, in combination a cotton wagon, a rigid superstructure thereon, a fan exhauster, a suction header connected thereto and having a manifold communicating therewith, said manifold supported longitudinally on said superstructure, a plurality of branch pipes communicating with said manifold, a flexible pipe connected with each of said branch pipes and means rigidly mounted on the superstructure and having rigid and positive engagement with the inner ends of the flexible pipes for supporting said inner ends of the pipes independently of the manifold whereby to relieve the manifold and branch pipes of strain.

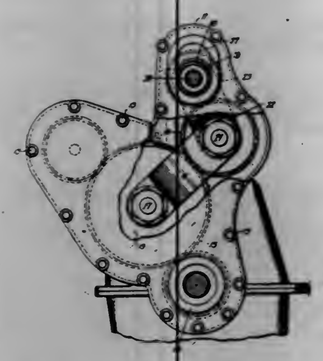
1,455,909. ELECTRIC COOKER AND HEATER. GEORGE O. DITTON, Lanoka, N. J. Filed Aug. 16, 1921. Serial No. 492,705. 2 Claims. (Cl. 219—43.)



1. An electric cooker comprising a receptacle having a heat-resisting bottom and side, a vessel fitting snugly

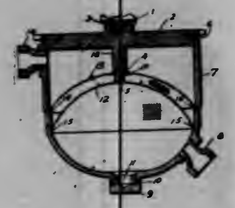
within the receptacle, a heat storage member fitting snugly in the lower end of the vessel, a heater in the upper portion of said heat storage member, and conductors leading from the heater through and up the side of the vessel, the vessel being provided at its top with a lateral flange resting on the receptacle and in which the conductors are secured, the vessel, the heat storage member, the heater and the conductors being removable as a unit through the top of the receptacle.

1,455,910. ADJUSTABLE MOTOR FAN. GEORGE V. DOMARUS, Jr., Saginaw, Mich. Filed Feb. 12, 1921. Serial No. 444,470. 27 Claims. (Cl. 230—1.)



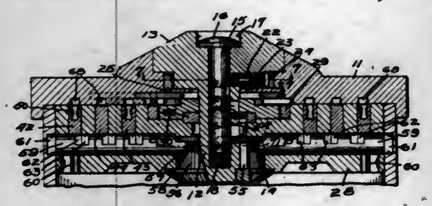
16. In a device of the class described, the combination of an adjustable fan, driving means for the fan, said driving means including a plurality of gears which are in mesh with each other, one of said gears being movable upon the adjustment of the fan, a member extending from the fan to the movable gear to which the movable gear is connected, an end of said member providing a journal in which said fan is mounted and means for locking said member against movement.

1,455,911. OIL PURIFIER. ALFRED R. GIFFIN, Cleveland, Ohio, assignor to J. E. Heene, Cleveland, Ohio. Filed Dec. 6, 1920. Serial No. 428,554. 1 Claim. (Cl. 210—165.)



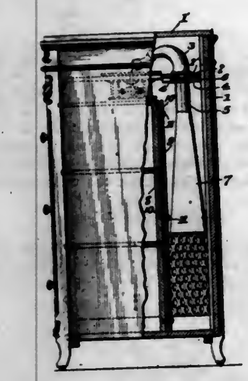
A liquid purifier comprising a cup-shaped casing having an inlet at the bottom and an outlet at the top, and upper and lower shoulders extending around the inside of the casing, upper and lower inverted cup-shaped screens in said casing, the edges of said screens resting on said shoulders respectively, and a cover on the casing having a depending stud with its lower end extending through a hole in the upper screen, and pressing upon the lower screen and a shoulder on the stud pressing upon the upper screen, whereby said screens are expanded to close contact with the shoulders.

1,455,912. COMBINATION SAFE LOCK. MILO C. HOARD, Stryker, Ohio. Filed May 18, 1922. Serial No. 561,805. 13 Claims. (Cl. 70—53.)



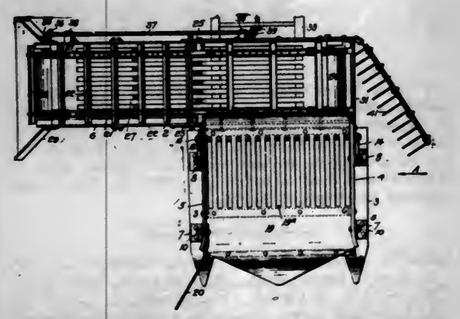
1. In a combination lock, a locking means, a rotatable member, a part rotated and moved relative to the rotatable member by the rotatable member, one or more elements for engaging the locking means and engaged and operated by the said part.

1,455,913. PHONOGRAPH. CARL J. HOFMANN, New York, N. Y., assignor of one-half to Edwin M. Heckscher, Belle Harbor, N. Y. Filed Sept. 14, 1920. Serial No. 410,324. 2 Claims. (Cl. 181—27.)



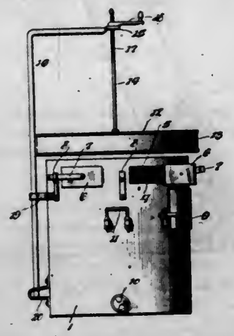
1. A phonograph having a horn or amplifier depending below the tone arm, and means for supporting the horn solely from the neck thereof comprising a horizontally slidable separable joint between the neck of the horn and the motor board.

1,455,914. BEET LOADER. JOHNSTON T. HOUGH, Denver, Colo. Filed Jan. 19, 1921. Serial No. 438,365. 8 Claims. (Cl. 198—7.)



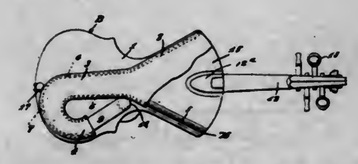
1. A beet-loader comprising in combination with a carrier, a shovel for removing beets from an edge of a pile along which the carrier is propelled, an elevator for lifting beets moved off the shovel to an elevated point of discharge, and a rake disposed to engage the upper portion of the pile of beets after the lower portion thereof has been engaged by the shovel.

1,455,915. TOBACCO SMOKING AND CURING APPARATUS. JOHN H. L. JOHNSON, Springfield, Tenn. Filed Apr. 7, 1922. Serial No. 550,405. 2 Claims. (Cl. 126—59.5.)



2. A tobacco-curing apparatus comprising an open-topped fuel container, screened outlets in the side of said container near the upper end thereof, a perforated plate removably supported in the upper end of the container above said outlets, a cover adapted to extend over the container, and means for shifting the cover into or out of operative relation to the container.

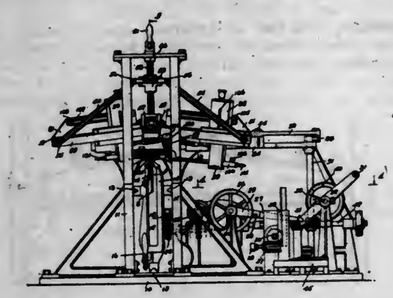
1,455,916. DIAPHRAGM VIOLIN. JOHN KALAF, Jr., Meta, Mo. Filed May 11, 1922. Serial No. 560,201. 2 Claims. (Cl. 84—296.)



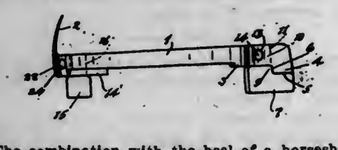
1. A stringed instrument comprising a belly provided intermediate its ends with an opening; a neck located at one end of the belly; a sound conduit located completely beneath the belly and having a flared outlet disposed adjacent to the neck, the conduit being curved adjacent to the other end of the belly and being extended forwardly into communication with the opening; a casing on the belly and surrounding the opening; a diaphragm in the casing; a lever supported for tilting movement with respect to the belly; means for connecting the lever with the diaphragm; a bridge on the lever; and a string extended along the neck and across the bridge.

1,455,917. SAW SHARPENING AND SETTING MACHINE. TITUS H. LAURY, Detroit, Mich. Filed July 26, 1921. Serial No. 487,670. 7 Claims. (Cl. 76—36.)

1. A saw sharpening machine comprising a frame, a saw supporting clamp mounted therein for longitudinal movements, mechanism for intermittently feeding the saw supporting clamp through the machine, means for regulating said mechanism to coincide with the gage of the tooth saw, transversely disposed guide members carried by the frame, a pair of sharpening elements, transverse reciprocity members mounted in the guide members, vertical reciprocatory supporting members carried by the transverse reciprocating members for actuating the transverse reciprocatory members, and interengageable means on the guide members and the vertical reciprocating members adapted to coact upon movement of the transverse reciprocating members to alternately effect active engagement of the sharpening elements with alternate teeth of the saw.

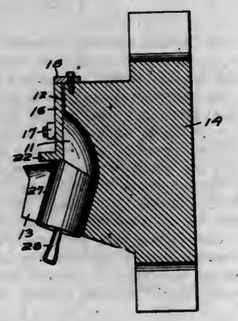


1,455,918. HORSESHOE. PHILIAS LEVESQUE, St. Boniface, Manitoba, Canada. Filed Mar. 13, 1922. Serial No. 543,412. 2 Claims. (Cl. 168—40.)



1. The combination with the heel of a horseshoe, said heel having a downward extension forming a shoulder with the shoe body, of a calk engaging the under face of the shoe and formed with a shoulder complementary to the heel shoulder, a stud extending from the calk and into the shoe in a location in advance of the shoulder, and a knockout crosspin extending transversely through the heel portion and engaging the stud.

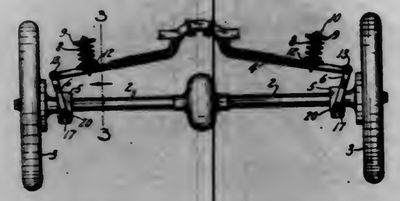
1,455,919. MACHINE FOR MAKING CONNECTOR TUBES FOR RADIATORS. GEORGE H. LOBER, Toledo, Ohio. Filed Apr. 8, 1921. Serial No. 459,767. 2 Claims. (Cl. 153—32.)



1. In a machine for forming radiator connectors from sheet metal pieces, a stationary die having a recess conforming substantially to the semi-form of the connector, a clamping plate for securing the semi-form of the connector in position and having a flange coacting to shape

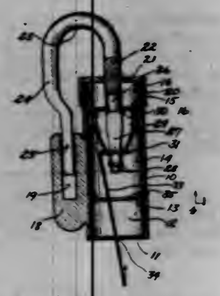
a portion of the flange of the connector, a block positioned in the connector and forming an anvil, a movable die having a cylindrical recess for gathering edge portions of the sheet metal.

1,455,920. SHOCK ABSORBER. JOHN W. LUSK, Denver, Colo. Filed Apr. 5, 1922. Serial No. 549,810. 4 Claims. (Cl. 267—17.)



1. In a vehicle, the combination with an axle, a housing and a spring for the support of the vehicle body, of an element including an abutment in superposed relation to the spring, a compression spring between the upper surface of the vehicle spring and the abutment, and a bell crank lever fulcrumed at an end of the vehicle spring, one arm of said lever being pivoted on the housing beneath the horizontal plane of the axis of the axle, and its other arm bearing against the lower end of the compression spring to contract the same by upward movement of the axle.

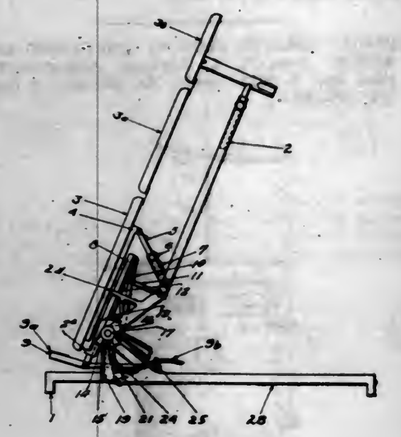
1,455,921. SHACKLE LOCK. ALEKSANDER MIELNICKI, Brooklyn, N. Y. Filed Sept. 11, 1922. Serial No. 587,285. 2 Claims. (Cl. 70—108.)



1. A lock comprising a cylindrical casing closed at one end and open at the other, a pair of spaced transverse partitions fixed in said casing, a cover fitting over the open end of the casing, a keeper fixed parallel on said casing, a fork-shaped bolt having one prong suited to slidably engage in said keeper, the other prong being fixed in said cover to extend through the adjacent partition, resilient arms attached to the last named prong, said arms being enterable through the partition and adapted to spring outward to engage its inner surface, and an angular key adapted to be inserted through the closed end of said casing and adjacent partition, there being a rectangular opening in said key adapted to engage and compress said arms to permit their withdrawal through the other partition and release said cover and bolt.

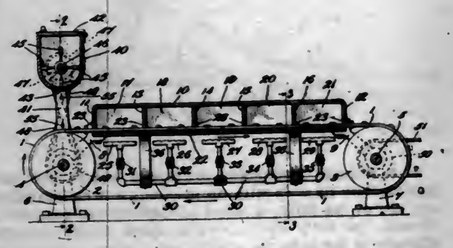
1,455,922. CHIROPRACTIC TABLE. HERBERT H. MILLER, Davenport, Iowa. Filed Jan. 17, 1922. Serial No. 529,894. 22 Claims. (Cl. 45—50.)

1. In a chiropractic table comprising a base and a bed hinged thereto, the combination with a balancing spring adapted to counterbalance the weight of the bed, of an additional spring secured to the base and the bed



frame, of sufficient strength to counterbalance the weight of a patient.

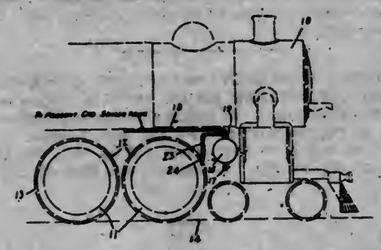
1,455,923. APPARATUS FOR PRODUCING FLAKED AND OTHER FOOD PRODUCTS. NATHAN MININBERG, Dickinson, N. Dak., assignor to Bran Products Company, Dickinson, N. Dak., a Corporation of North Dakota. Filed July 5, 1921. Serial No. 482,392. 7 Claims. (Cl. 107—57.)



1. In an apparatus of the class described, the combination of a closed chamber; a movable conveyor passing through said chamber; a heating element associated with said chamber adapted to raise the temperature therein; means comprising a hopper provided with an agitator for feeding material in the form of droplets to said conveyor; means to support said hopper above said conveyor a distance sufficient to permit the formation of said droplets in the air before they reach said conveyor; and means for moving said conveyor, substantially as described.

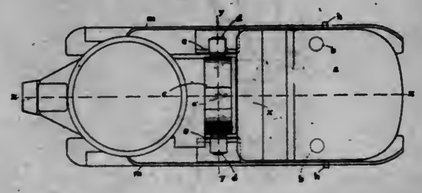
1,455,924. ANTISLIP DEVICE. WILLIAM J. MOFFATT, Indianapolis, Ind. Filed May 29, 1922. Serial No. 564,605. 2 Claims. (Cl. 291—1.)

1. In a device of the character described, the combination with a source of fluid pressure, a single fluid reservoir, a plurality of nozzles, and a connection from each nozzle extending towards the reservoir, of a unitary



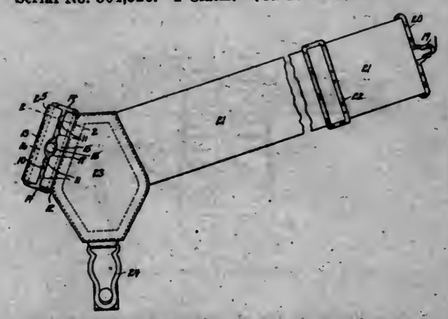
siphon construction associating the reservoir with the connections and the source of fluid pressure, including an injector extending into each connection.

1,455,925. COAL CUTTING AND SIMILAR MACHINE. MATTHEW SMITH MOORE, London, England, assignor to Cowlishaw Walker & Company (1920) Limited, London, England. Filed May 6, 1922. Serial No. 559,062. 5 Claims. (Cl. 262—25.)



5. A coal cutting machine comprising a body, cutting means at one end and haulage means at the other end thereof, skids beneath both sides of the body, a central ring having the body mounted therein for movement about its longitudinal axis, means at the haulage end of the machine for imparting the said movement to the body, the cutting means capable of being swung laterally in a horizontal plane to extend over either of the skids.

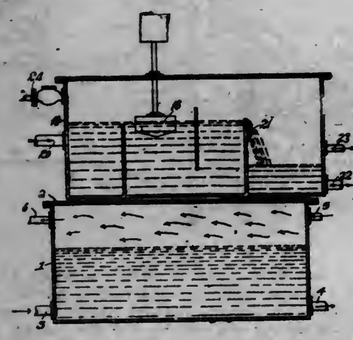
1,455,926. GARTER TRIMMING. ROSWELL A. MOORE, Waterbury, Conn., assignor to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed Oct. 3, 1921. Serial No. 504,926. 1 Claim. (Cl. 241—6.)



In a garter, the combination with the pad, stocking-gripping pendant and leg-band thereof; of a garter trimming of the hook-and-eye type comprising a cast-off loop applied to the outer end of the said leg-band and having an eye, and a cast-off plate having side bars, an intermediate bar

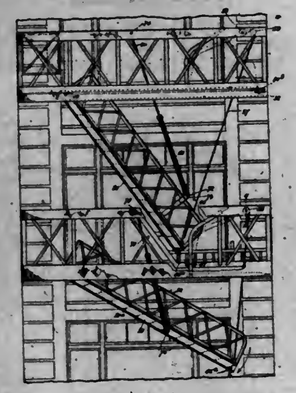
separated from the said side bars by threading-openings formed with downwardly-turned prongs and provided upon its upper face with an upstanding stud for engagement by the eye of the said cast-off loop; and a short length of fabric for attaching the said plate to the said pad at a point thereon opposite the attachment thereto of the inner end of the said leg-band, the said short length of fabric being applied to the said cast-off plate so as to receive the said prongs of the said intermediate bar and to cover the said prongs to prevent the contact of their clinched ends with the body of the wearer of the garter.

1,455,927. METHOD OF AND APPARATUS FOR PREVENTING THE ABSORPTION OF AIR BY BOILER-FEED WATER OR OTHER LIQUID. DONALD BARNS MORISON, Hartlepool, England. Filed Mar. 30, 1920. Serial No. 370,056. 4 Claims. (Cl. 137—111.)



1. The method of preventing degassed liquid from reabsorbing gases in a container said method consisting in causing the liquid to enter and leave the closed container below the water level in said container whereby the surface of said liquid is maintained quiescent and causing a current of the vaporised liquid to flow continuously across the whole surface of the liquid within the container.

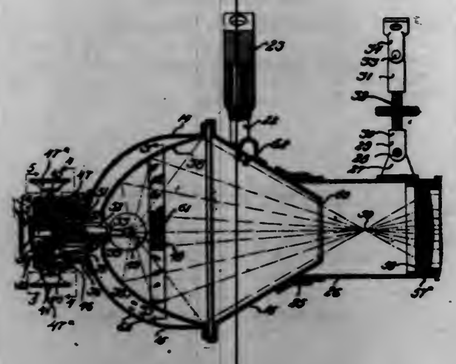
1,455,928. FIRE ESCAPE. CHARLES F. MORRILL, Boston, Mass. Filed Apr. 19, 1918. Serial No. 229,546. 10 Claims. (Cl. 227—5.)



1. A fire escape comprising a balcony having a relatively large opening constituting a passageway through the balcony floor, said floor including a stair-foot landing located at one end of said opening and provided with spaced apart narrow elongated slots, and a stairway

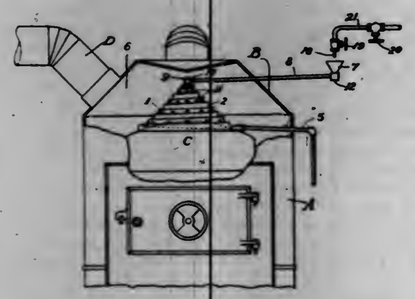
hinged to the balcony at one end of said opening, and provided with fixed upstanding hand rails, adapted to enter said slots when the stairway is raised, the stairway being elongated so that, when raised, one end portion projects under said landing, portions of its hand rails projecting through said slots.

1,455,929. SPOTLIGHT-PROJECTING DEVICE. EDWARD DUNBAR NEFF, Marysville, Pa. Filed July 17, 1920. Serial No. 397,103. 11 Claims. (Cl. 290—41.)



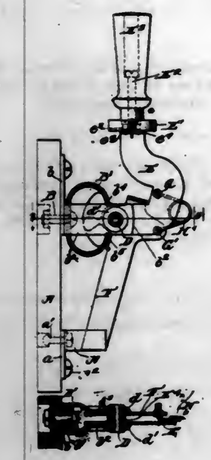
11. A spot light projecting device including a casing having a frusto-conical forward portion and a curved rear portion, an ellipsoid reflector within the rear portion of the casing, said reflector and rear portion of the casing having axial openings; a lamp holder over the opening in the rear portion of the casing; a lamp carried by said holder and projecting in the position whereby the rays of light emanating therefrom will be reflected to a point constituting the focus of the ellipsoidal reflector; a projecting tube threadedly mounted on the frusto-conical front portion of the casing spaced from the forward end thereof; a lens located adjacent to said focus and through which the reflected rays pass; and an auxiliary lens interposed between the source of light and the first named lens adapted to converge the rays of light from said source which do not intercept the reflector; substantially as described.

1,455,930. HUMIDIFIER FOR FURNACES. HARRY M. NOBIS, East Cleveland, Ohio. Filed Jan. 23, 1923. Serial No. 614,406. 13 Claims. (Cl. 126—113.)



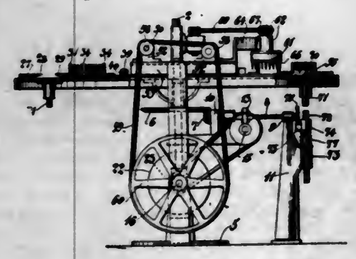
1. The combination with the hot air chamber and dome of a hot air furnace, of a humidifier comprising a hollow conical casing seated removably on the top of said dome with its apex uppermost and terminating in a pin, an overflow pipe leading from the base of the cone to a point outside the chamber, an inverted cup adapted to enclose said pin and an inflow pipe leading from an outside source of liquid supply and terminating within said chamber in said cup.

1,455,931. MANUALLY-CONTROLLED QUICK-MAKE AND QUICK-BREAK KNIFE SWITCH. HERMAN G. PAPE, New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 25, 1919. Serial No. 285,003. 15 Claims. (Cl. 200—67.)



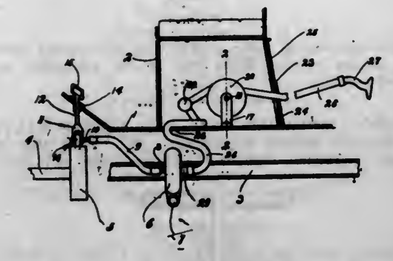
1. A knife switch comprising a handle; a pivoted blade; and means including a spring connecting the handle and blade through which the latter is controlled by the former but operates independently thereof with a quick make and a quick break; a fixed contact; and a stop independent of the fixed contact to limit the movement of said blade as it is moved into engagement with said fixed contact, said stop engaging the blade at the half thereof nearer to the pivot.

1,455,932. BRUSH-MAKING MACHINE. ULYSSES S. PERKINS, Lebanon, Ind. Filed Dec. 8, 1921. Serial No. 520,922. 3 Claims. (Cl. 300—2.)



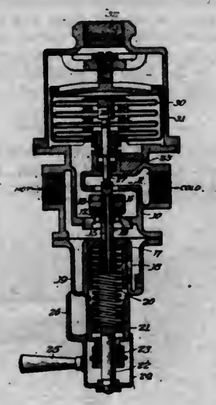
1. In a device of the character described, a rotatably mounted platform, means for removably securing sections of a fibrous and cellular substance to said platform, a horizontally disposed shaft carrying a comb-shaped cutting member mounted above said platform, a vertically disposed shaft carrying a comb-shaped cutting member mounted above said platform adjacent said first named cutting member, means for rotating said platform, and said first and second named shafts, and an ejector for ejecting said sections after they have passed out of engagement with said cutting members.

1,455,933. VACUUM CLEANER. HARRY A. R. PETERMAN, Chicago, Ill. Filed Aug. 19, 1920. Serial No. 404,499. 1 Claim. (Cl. 15—15.)



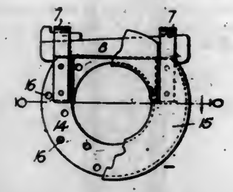
The combination with the frame, fly wheel and seat of a motor propelled vehicle, of a winding member housed within the seat; a suction device mounted on the frame and including a flexible shaft and a wheel on the shaft; a flexible conduit connected to the suction device and engaged about the winding member; and means under the control of an operator for moving the flexible shaft to bring the wheel thereof into and out of engagement with the fly wheel.

1,455,934. THERMOSTATIC WATER MIXER. FRED W. POWERS and MORTON O. SNEDIKER, Chicago, Ill., assignors to The Powers Regulator Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 28, 1921. Serial No. 511,174. 9 Claims. (Cl. 236—12.)



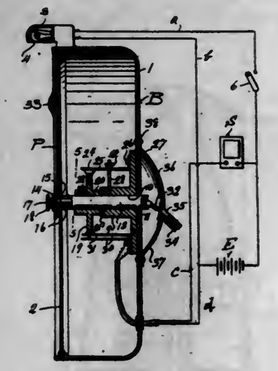
1. In a water mixer, the combination of a casing providing an inlet for hot and cold fluids and an outlet for the mixed fluids, a valve controlling the admission of fluids to said casing, a thermostat for positioning said valve, a piston associated with said thermostat and valve, one face of said piston being exposed to the entrance pressure of the cold fluid and the other face to the entrance pressure of the hot fluid in all positions of the valve.

1,455,935. HUB LINER. WILLIAM WALLACE RAMSEY, Sterling, Colo. Filed Oct. 9, 1918. Serial No. 257,452. 5 Claims. (Cl. 64—25.)



3. A liner comprising a ring composed of a body-section having an opening for the passage of an axle around which it is placed, ears at opposite sides of the opening, extending partially within the same to provide feathers along its edges, and a sliding section having grooves cooperating with said feathers, and a key engaging the ears and the sliding section to hold the latter in its proper position with relation to the body section.

1,455,936. INDICATOR. ROHDE REYNOLDS, Houston, Tex. Filed Jan. 8, 1921. Serial No. 435,928. 4 Claims. (Cl. 116—21.)



4. A device of the class described including a casing, a dial associated with the casing, a pointer coacting with the dial, a bearing arranged within the casing, a shaft supported by said bearing and with which the pointer is engaged, means for rotating the shaft, a wheel fixed to the shaft within the casing and adjacent the bearing, the periphery of the wheel being notched, a spring secured to the bearing and overlying the periphery of the wheel, a lip carried by the spring to seat within a notch of the wheel to hold the shaft and pointer normally against rotary movement, a shank extending from the bearing and disposed through the spring, and a member threaded upon the shank outwardly of the spring to provide means to regulate the tension of the spring.

1,455,937. BAILER. LEE ABE RHODES, Humble, Tex. Filed May 28, 1921. Serial No. 473,457. 3 Claims. (Cl. 166—19.)

1. A bailer including a barrel whose lower end is closed, and provided with a lateral opening, a valve seat in the barrel above said opening, a lift valve adapted to rest on

the seat, a stem depending from said valve and extended below the barrel, and a bearing block in the lower end



of the barrel through which the stem has a bearing which limits the stem to substantially a longitudinal movement.

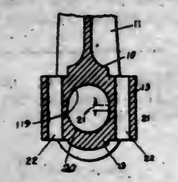
1,455,938. SIGNAL LANTERN. FREDERICK J. RODE, RALPH L. FROST, and JOHN L. LISTON, Augusta, Kans.; said Rode and said Frost assignors to said Liston. Filed Apr. 21, 1921. Serial No. 463,191. 4 Claims. (Cl. 240—8.5.)



2. In a lantern of the kind described, a support, two batteries, independent of one another, carried thereby, a circuit closing member, a plurality of electric lamps having two sets of terminals, conducting means connecting said batteries, with one set of terminals, means by which the other terminals are adapted to be consecutively connected with said circuit closing member, and conducting means including a switch connected with said circuit closing member and by which the latter may be connected in circuit with either one of said batteries, substantially as set forth.

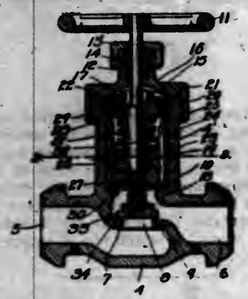
1,455,939. PROCESS OF MAKING DIVIDED BEARINGS. ROBERT M. ROOT, Anderson, Ind., assignor to Laurel Motors Corporation, Anderson, Ind. Filed June 21, 1920. Serial No. 390,448. 3 Claims. (Cl. 29—149.5.)

1. The process of forming a divided bearing for shafts and the like comprising the steps of forming a unitary bearing blank with an elongated opening, providing aligned and securing openings in the unitary bearing blank, and dividing the unitary bearing at the elongation of said opening to remove said elongation from said



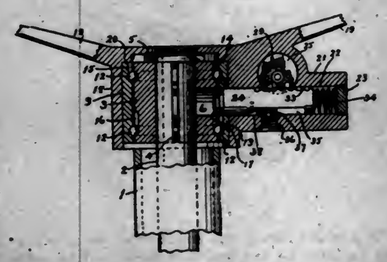
bearing opening to form a true bearing opening when said divided bearing is secured in the assembled and aligned position.

1,455,940. COMBINED STOP AND SAFETY VALVE. MARION W. STOMS, Kansas City, Mo. Filed Aug. 29, 1921. Serial No. 496,299. 4 Claims. (Cl. 251—3.)



1. A combined stop and safety valve for compressors comprising a valve casing, a reciprocatory follower carried by the casing, a threaded valve stem in the follower having a valve for normally closing an opening in the seat of the valve casing, a spring for normally exerting pressure against the follower to maintain the valve seated, said spring permitting movement of the follower to allow the valve to unseat upon the accumulation of abnormal pressure in the valve casing sufficient to preponderate over the spring, and a casing within the valve casing splined to the follower whereby the follower may have reciprocatory movement but be held against rotative movement.

1,455,941. VEHICLE STEERING MECHANISM. LOUIS C. VANDERLIP, Elkhart, Ind. Filed Aug. 30, 1920. Serial No. 406,931. 15 Claims. (Cl. 70—129.)



1. In a mechanism of the class described, a shaft; an encompassing member rotatable thereon; means for preventing relative axial movement of said encompassing member and shaft; a member encompassing said first mentioned encompassing member; and means whereby the said second mentioned encompassing member may be releasably locked to said shaft, said locking means being adapted to engage said first mentioned encompassing member, when released from the shaft, for retaining the second mentioned encompassing member on the first.

1,455,942. PHONOGRAPH SOUND BOX. WILLIAM M. VENABLE, Pittsburgh, Pa. Filed Aug. 17, 1921. Serial No. 493,010. 13 Claims. (Cl. 274—35.)



1. In a sound box structure the combination with the sound box casing, of a yoke secured to the casing and provided with a tongue capable of slight yielding, and a wire secured to the yoke and to said tongue.

1,455,943. DRIVING WHEEL FOR MOTOR VEHICLES AND THE LIKE. GEORGE R. WALKER, Clarendon Hills, Ill., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 15, 1919. Serial No. 338,229. 10 Claims. (Cl. 74—28.)



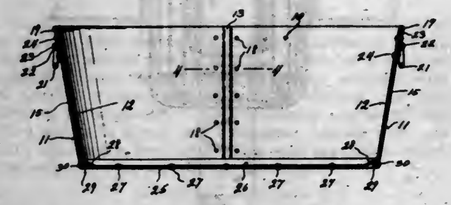
1. In combination, a wheel band, an internal gear adapted to be fitted therewithin, the wheel band and the gear having registering recesses on their facing surfaces, and key means yieldably held lying partly within each recess to secure said gear and said rim against relative displacement.

1,455,944. CURTAIN AND QUILTING FRAME. WILLIAM A. WALL, Carrollton, and ANNA N. MITCHELL, Rockbridge, Ill. Filed May 27, 1922. Serial No. 564,277. 2 Claims. (Cl. 45—24.)



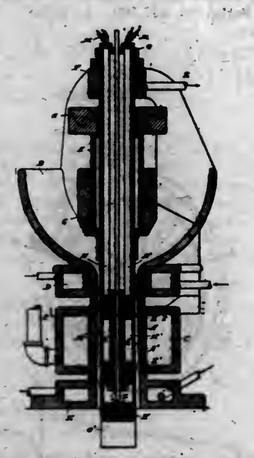
1. A quilting frame comprising side members, each side member consisting of a sleeve substantially rectangular in cross section and open at its ends, one end of the sleeve being closed by a block, the side faces of said block adjacent the ends of the sleeves having cleats for the reception of supporting legs, the upper face of the block adjacent the end thereof having a recess, a supporting rod slidable in the sleeve, said rod having a slot extending transversely of the rod and longitudinally thereof, the opposite end portion of the sleeve having spaced registering openings, the supporting rod of each side member being connected to the adjacent supporting rod by an end member, the sleeve members of each side member being connected to each other through the medium of a second end member, a bolt disposed in said openings and in the slot of the supporting rod, the head of said bolt being adapted to engage one side of the sleeve, and a wing nut carried by the opposite end of the bolt and adapted to engage the outer end of the sleeve, the side members of said sleeves being resilient whereby said sleeves may be urged into binding engagement with the rod to hold said rod in various adjusted positions.

1,455,945. TUB. JOHN JAMES WALTON, Dante, Va. Filed Apr. 5, 1922. Serial No. 549,703. 1 Claim. (Cl. 220—63.)



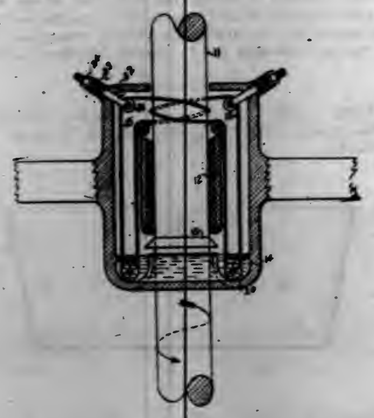
A tub comprising an inner tub of rust proof material and an outer reinforcing tub, and securing means extending through the walls and bottom of said tubs and securing the same together, the upper end of the side wall of the outer tub being abutted by a ring member, the upper end of the side wall of the inner tub being bent about said ring member and having its extremity abutting the outer face of the side wall of the outer tub.

1,455,946. APPARATUS FOR FORMING ARTICLES OF CORK. THEODORE C. WEBSTER, Wilmington, Del. Filed June 26, 1922. Serial No. 570,904. 6 Claims. (Cl. 18—5.)



1. In apparatus for forming tubular bodies of comminuted cork and binder, the combination with a tubular die and means for forcing cork into and through the same, of a mandrel mounted axially within said die, means for creating cooling and heating zones in the confining walls of the die, and means for creating cooling and heating zones in the wall of the mandrel in regions substantially opposite the cooling and heating zones of the die.

1,455,947. OILING DEVICE. WILLIAM MONROE WHITE, Milwaukee, Wis. Filed July 21, 1921. Serial No. 486,413. 7 Claims. (Cl. 64—31.)



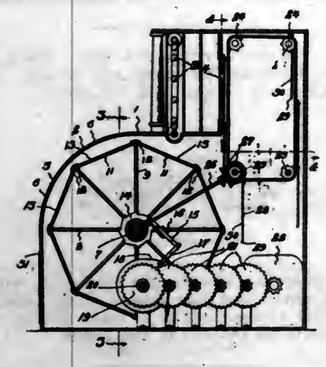
2. In combination, an upright shaft, a bearing for said shaft, a basin below the top of said bearing, and a continuous flexible band movable by direct contact with said shaft, said band comprising an elevating portion extending upwardly from said basin and longitudinally of said shaft, and a second portion extending laterally from said elevating portion to said shaft above the bottom of said bearing.

1,455,948. RESILIENT SUSPENSION DEVICE FOR THE FRONT WHEELS OF MOTOR CYCLES. SAVILLE WHITING, Melbourne, Victoria, Australia. Filed May 7, 1921. Serial No. 467,569. 5 Claims. (Cl. 208—97.)



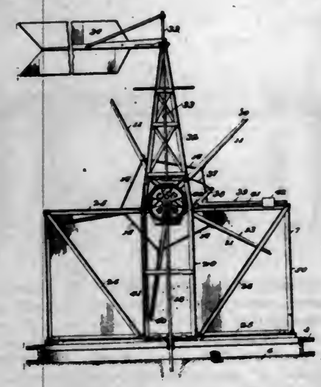
1. A resilient suspension device for the front wheels of a cycle comprising a yoke shaped member fitted rigidly to the rear of the steering fork, a pair of levers pivotally mounted at one end to the yoke shaped frame, means on the free ends of the levers for supporting the axle of the front wheel of the cycle, a pair of springs mounted rigidly on the yoke shaped frame and exerting a downward thrust on the free ends of the levers, a bifurcated bar connecting the free ends of the levers, a piston on the bifurcated bar, and a cylinder pivoted to the fork and accommodating the said piston.

1,455,949. ADVERTISING DEVICE. ALFRED E. WHITMORE, Norfolk, Va. Filed Sept. 6, 1921. Serial No. 498,812. 1 Claim. (Cl. 40—30.)



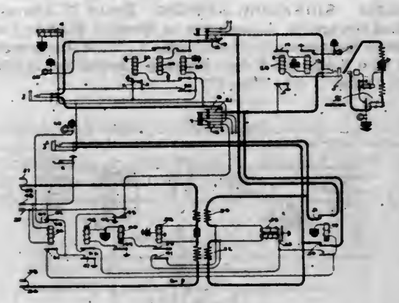
An advertising device of the character described comprising a casing having a reduced upper part and a rounded front face connecting the front face of the reduced part with the lower part, windows in the front face of the reduced part and the rounded part, lighting means arranged around the upper window, a movable element located adjacent each window, means for supporting advertising cards on said elements consisting of a shaft arranged in the lower part of the casing, a carrier frame of octagon shape rotatably mounted on said shaft, the frame including spokes having their inner ends connected to a hub and strips conecting the outer ends of said spokes together, said strips supporting guiding elements and cards containing advertising matter received in said guides, lamps for illuminating the cards appearing at the lower window, motor means for moving the movable elements thereby consisting of a train of gearing shafts, and an endless belt carrier which is designed to travel in a rectangular path.

1,455,950. WINDMILL. IRVIN F. WILLMAN, Muleshoe, Tex. Filed Dec. 23, 1921. Serial No. 524,458. 1 Claim. (Cl. 170—12.)



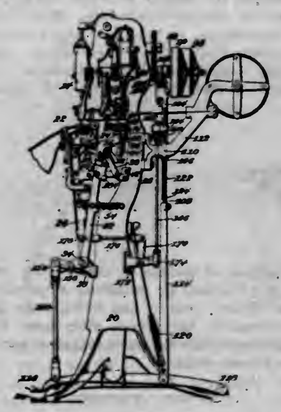
A windmill comprising a frame having a centrally arranged tower, a horizontal shaft rotatably carried by said frame, spaced wind wheels carried by said shaft, a vane arranged above the tower and having a control shaft extending through the tower, a crank pivoted to said frame and having a short upwardly and outwardly directed branch, and an approximately horizontal branch, a link connecting said arm and said short branch, a weight adjustable on said approximtely horizontal branch to regulate the response of the frame to the movement of the vane, and means whereby to rotatably support the frame.

1,455,951. SEMIAUTOMATIC TELEPHONE SYSTEM. BERNARD D. WILLIS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1919. Serial No. 301,038. 18 Claims. (Cl. 179—27.)



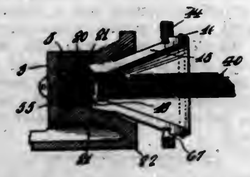
1. In a telephone system, a first operator, a second operator, a trunk line extending between the two, a signal associated with each operator, a pair of terminals associated with one end of said trunk, means for seizing either of said terminals to extend a connection to said trunk, and whereby when one of said terminals is seized the first signal only is automatically operated and whereby when the other one of the terminals is seized the second signal only is automatically operated.

1,455,952. SOLE-LAYING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 22, 1919. Serial No. 284,377. 11 Claims. (Cl. 12—17.)



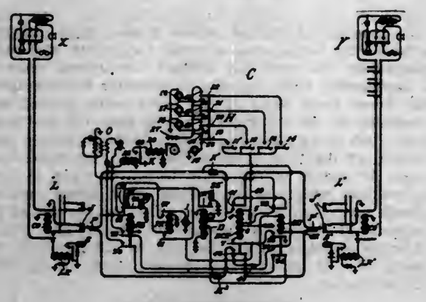
1. A shoe machine having, in combination, a device for locating or positioning an article in a predetermined manner and adapted for withdrawal from the article operated upon after it has performed its locating function, and nail driving mechanism arranged to drive a single nail into the article when the locating device is in operative position and automatically to drive a series of nails into the article when the locating device is withdrawn.

1,455,953. MACHINE FOR CAPPING BUNDLES OF TIE WIRES. PARVIN WRIGHT, Chicago, Ill. Filed Dec. 30, 1921. Serial No. 526,046. 6 Claims. (Cl. 153—1.)



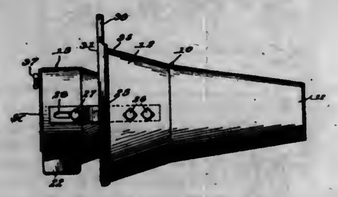
1. In a tie wire capping machine the combination of a capping head having an inclined cone-shaped portion and a cylindrical portion adapted to receive a cap; an expansible cone-shaped crimping member provided with a beveled crimping surface on its extreme end and adapted to be guided by the cone-shaped portion of said head and to be forced into a crimping relation with said cap; and means for reciprocating said expansible crimping member, substantially as described.

1,455,954. TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1917, Serial No. 164,318. Renewed June 2, 1922. Serial No. 565,405. 10 Claims. (Cl. 179—58.)



9. A telephone system including a calling and a called subscriber's line, a link circuit provided with only five relays for connecting said lines in conversational circuit, said link circuit being provided with automatic listening, flashing recall, automatic ringing and automatic disassociation of the ringing current from the called line, all of said features being controlled by said five relays.

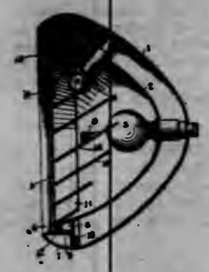
1,455,955. BURNER. ELMER E. CORNWELL and JOSEPH H. MCCREADY, Okmulgee, Okla. Filed May 27, 1922. Serial No. 564,025. 2 Claims. (Cl. 158—118.)



1. In a burner, an open ended shell constituting the mixing chamber and the nozzle of the burner and having a large section of frusto-conical form and of circular cross section and a small section of elliptical cross sec-

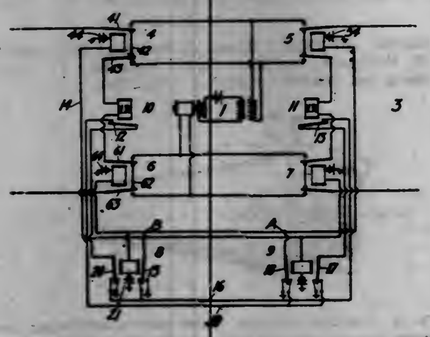
tion, the large section merging at its small end into the small section and the small section tapering toward its outlet end, and a gas chamber arranged at the open end of the large section and made up of an inner cylindrical wall defining an axial air passage, an outer wall including a cylindrical section and a frusto conical section, the frusto conical section converging toward the large end of the shell and connecting with this large end to define an air inlet into said shell, said gas chamber also having end walls integral with the inner and outer walls to define therewith an enclosed gas space, the end wall adjacent the shell having a circular series of discharge openings.

1,455,956. HEADLIGHT DIMMER. JAY D. JONES, New York, N. Y. Filed Apr. 20, 1922. Serial No. 555,716. 1 Claim. (Cl. 240—48.4.)



A dimmer for location within a head light including a forwardly flaring ring carrying a plurality of parallel rearwardly and upwardly inclined overlapping vanes of a considerable depth spaced a considerable distance apart, the lower front edges of the vanes being located substantially in the front plane of the ring and the upper rear edges being located in different vertical planes rearwardly of the back plane of the ring, the upper rear edges of certain of the vanes being cut away to form spaces into which the central and offset lamps projects, shields carried by certain of the vanes for preventing the exposure of the lamps through the dimmer, and a light intercepting plate across the top of the front of the flaring ring to screen the light rays above the top vane of the dimmer.

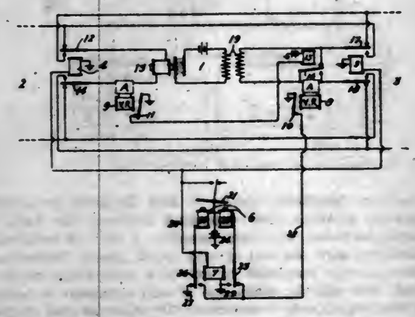
1,455,957. REPEATER SYSTEM. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1918. Serial No. 212,462. 26 Claims. (Cl. 179—170.)



1. The combination of a line, a repeater adapted to be reversibly connected thereto, a relay for controlling the connection of said repeater to said line, and means comprising a relay and a vibratile contact controlled thereby whereby current derived from the output circuit of said repeater is effective to control the repeater connections.

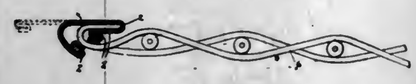
25. A repeating system comprising a relay having a vibratable contact, a circuit to be controlled thereby, an auxiliary relay assisting said first-mentioned relay, and a circuit comprising a contact operating continually while repeating and controlled by said relays.

1,455,958. SIGNALING SYSTEM. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1918. Serial No. 213,522. 22 Claims. (Cl. 179—170.)



1. A repeater system comprising a line, a repeater therefor, a normally closed circuit in shunt to and short circuiting across said line, and means responsive to current impressed on said line for controlling said shunt circuit.

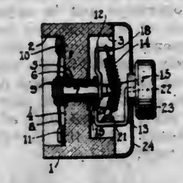
1,455,959. METHOD OF AND MEANS FOR BINDING THE EDGES OF REED FABRIC AND THE LIKE. MARSHALL B. LLOYD, Menominee, Mich., assignor, by mesne assignments, to Levi H. Greenwood and George A. Keyworth, both of Gardner, Mass., and William E. Holman, Leominster, Mass., trustees. Filed Aug. 20, 1920. Serial No. 404,799. 5 Claims. (Cl. 147—48.)



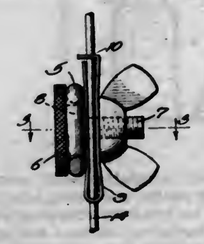
2. The method of making a binder strip of the class described that consists in providing a metallic strip, in providing a fibrous strip of less width than the metallic strip, superimposing the fibrous strip upon the metallic strip and folding relatively small marginal portions thereof over the fibrous strip.

1,455,960. ELECTRIC SWITCH. ALFRED E. MAAGE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1919. Serial No. 340,270. 9 Claims. (Cl. 200—67.)

1. The combination with relatively movable members, one of the same being oscillatable, of a spring associated with the latter member to oscillate the same with a snap action upon reverse operations of the other of said members and to hold said oscillatable member against movement during a given initial movement of the other member in either direction and means acting upon said spring to prevent the same from being rendered inactive through relative positioning of said member.

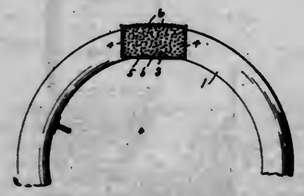


1,455,961. PICTURE HANGER. AUGUST J. MAIER, Chicago, Ill., assignor to Dexter Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 19, 1922. Serial No. 569,311. 3 Claims. (Cl. 40—145.6.)



1. A hanger including a screw eye; a headed bolt having a threaded stem passing through the loop of the screw eye; a clamp formed of strip metal folded into U-form and having one end portion bent toward the other, this clamp being formed with registering holes in its sides through which said bolt stem passes and with a hole in its bight and another in the bent end portion; a wire passing through the latter two holes; and a nut upon the bolt stem for operating the clamp.

1,455,962. LEAK DETECTOR FOR TIRE TUBES. HERBERT M. MATTHEWS, Worton, Md. Filed Aug. 23, 1922. Serial No. 583,869. 1 Claim. (Cl. 73—51.)

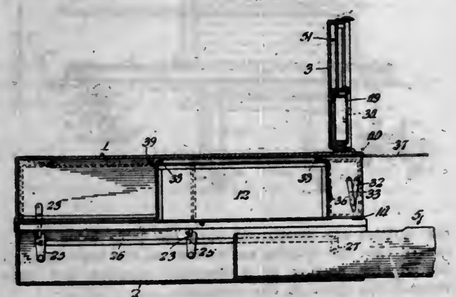


A leak detector for tire tubes, comprising a thin piece of resilient metal having the sides thereof bent and the edges turned, and provided with a number of apertures therein forming a number of burs on the outer surface.

1,455,963. LITHOPONE AND METHOD OF MANUFACTURE. WALTER F. MEISTER, Collinsville, Ill. Filed July 25, 1921. Serial No. 487,503. 8 Claims. (Cl. 134—78.)

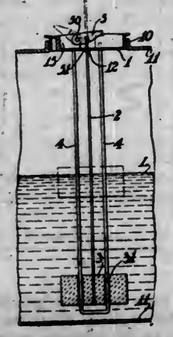
6. The process of manufacturing lithopone which consists in adding a small percentage of zinc sulphate to a mixture of commercial lithopone.

1,455,964. WARDROBE TRUNK. FRANK W. MEYER, Oshkosh, Wis., assignor to The Oshkosh Trunk Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Feb. 14, 1921. Serial No. 444,664. 11 Claims. (Cl. 190—18.)



11. A trunk, comprising two hinged together sections, garment-retaining means in each of said sections, said means being slidably mounted in their respective sections and adapted to be withdrawn from and inserted back into the trunk through openings provided in said sections when the sections are closed together, one of said sections having its opening at one end, a lid for closing said opening, and locking means for said lid and sections.

1,455,965. LIQUID-LEVEL GAUGE. JOHN B. MULLALLY, Seattle, Wash. Filed Oct. 25, 1921. Serial No. 510,250. 2 Claims. (Cl. 73—82.)

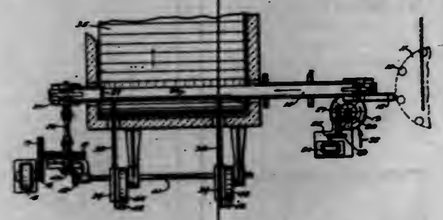


1. A liquid level gauge comprising a perforated cap securable in the top of a tank, a float within the tank, a measuring rod secured to the float and projecting upward through the perforation in the cap, a locking bar pivoted by one end to be swung in a vertical plane, said bar having a transverse slot engageable with the rod, whereby the buoyancy of the float, acting through the rod, maintains the slot and the rod in locked position with the rod depressed within the tank.

1,455,966. MECHANISM FOR CONVEYING HOT GLASSWARE. MICHAEL J. OWENS, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 6, 1921. Serial No. 505,748. 9 Claims. (Cl. 198—81.)

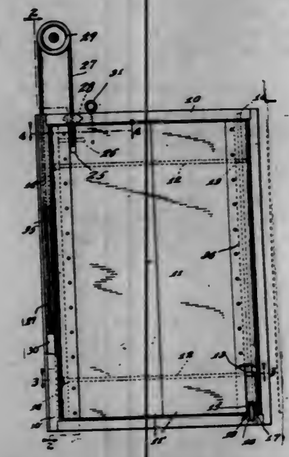
1. In apparatus for transferring hot glassware, the combination of an inclined chute down which articles are carried by gravity, a horizontally traveling conveyor, a table beneath the chute onto which the articles are discharged from the chute, said table being rotatable

about a vertical axis and in substantially the same horizontal plane as said conveyor, and means to guide articles from the table onto the conveyor, the point at which



the articles are discharged onto the table being so arranged that the articles are carried on the table through the greater portion of a complete rotation and pass beneath the chute to the conveyor.

1,455,967. DOOR. HENRY H. PALS, Meservey, Iowa. Filed Mar. 8, 1922. Serial No. 541,938. 4 Claims. (Cl. 20—16.)



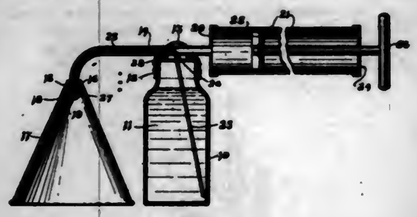
1. A swinging door having a plurality of hinge eyes secured at one edge, a hinge pin extending through said eyes and secured at its opposite ends in a supporting frame, and a U-shaped strip of sheet metal covering said hinge connection and secured to the sides of the door.

1,455,968. INSERTIBLE-TOOTH SAW. ALBERT E. PROCTOR, Bellingham, Wash. Filed Jan. 15, 1921. Serial No. 437,395. 1 Claim. (Cl. 143—141.)



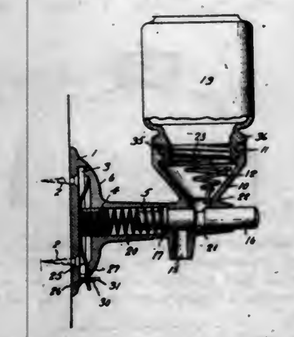
The combination of a saw blade having teeth receiving apertures located between tongue and backing elements of the saw blade, with the forward edges of the tongues being curved, said tongues being resilient and provided at their outer ends with curved rear edges, said back elements being rigid and provided with recesses communicating with the apertures and in opposed relations to the curved portions of the respective tongues, and teeth having shank elements with rearwardly protruding portions to respectively seat within the aforesaid apertures and recesses, one of the exposed edges of the teeth lying in the same plane as the adjacent edge of the backing element, and the other exposed edge of the teeth being curved and continuous with the curvature of the forward edge of the tongue.

1,455,969. EMBALMING-FLUID ATOMIZER. JOSEPH A. RAYDER, Philadelphia, Pa., assignor to The Necrosan Co., Inc., New York, N. Y. Filed Apr. 9, 1921. Serial No. 459,905. 1 Claim. (Cl. 299—89.)



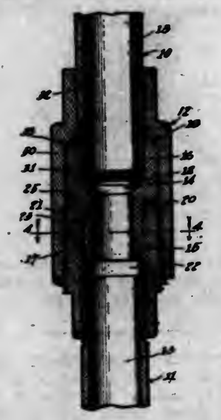
An atomizer for embalming fluids comprising an air pump, a reservoir for the embalming fluid, a cap for said reservoir having an upwardly extending portion, a cone shaped spreader having an internal hemispherical chamber near the apex thereof, an air pipe passing through said upwardly extending portion of the reservoir having one end connected to said air pump and the other end connected to said spreader, and a fluid carrying pipe having a triangular internal cross section, one end of said fluid carrying-pipe terminating within said hemispherical chamber and the other end thereof extending into the reservoir.

1,455,970. DISPENSING DEVICE. MORRIS C. REBEK, Cleveland Heights, Ohio. Filed Dec. 6, 1920. Serial No. 428,470. 10 Claims. (Cl. 221—94.)



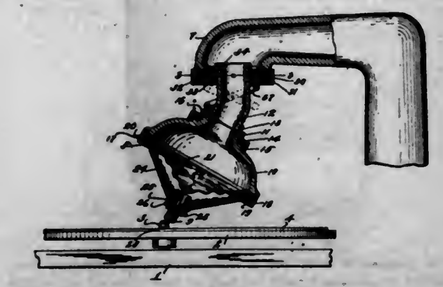
1. In a dispensing device of the character set forth, the combination of an invertible support, a container removably supported thereby, and a lock for securing the container against removal from the support when the support is in normal position, said lock being rendered ineffective by the inversion of the support.

1,455,971. COUPLING. ADOLPH BICKENBACKER and WILLIAM KAMMERER, Los Angeles, Calif. Filed July 21, 1921. Serial No. 486,480. 3 Claims. (Cl. 285—122.)



1. A device for connecting two members comprising, two parts, one screw threaded on the end of each member, and a sleeve for connecting said parts the sleeve having screw threaded engagement with one of said parts, the screw threaded engagements between the members and parts being alike and opposite to that between the sleeve and the part.

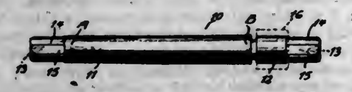
1,455,972. SOUND-BOX STRUCTURE. CARL SCRABIC, Urbana, Ohio. Filed Apr. 28, 1920. Serial No. 377,221. 3 Claims. (Cl. 274—24.)



1. In a talking machine, a tone arm, a sound box connected with the free end of said tone arm, the connection between said tone arm and sound box being formed to constitute an annulus mounted for rotation in a bearing connected with said tone arm, a ring member located within said annulus and pivotally mounted with respect thereto and an extension formed upon the upper end of said sound box and having pivotal connection with said ring member, the pivotal connection between said ring member and sound box being located substantially at right angles to the pivotal connection between the annulus and ring member.

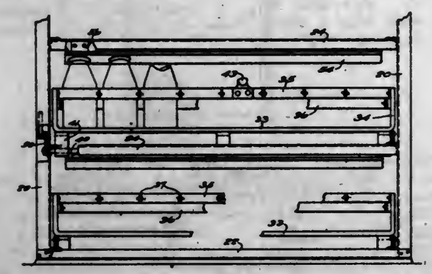
1,455,973. COMBINATION MANDREL AND GAUGE. FRANK J. SIKONOVSKY, Chicago, Ill. Filed Apr. 24, 1922. Serial No. 556,301. 3 Claims. (Cl. 82—48.)

1. A device of the character described comprising the combination in a spindle of a tapered mandrel portion intermediate the ends of said spindle adapted to have work fixed thereon for turning, and a cylindrical gauge portion adjacent the large end of said tapered mandrel



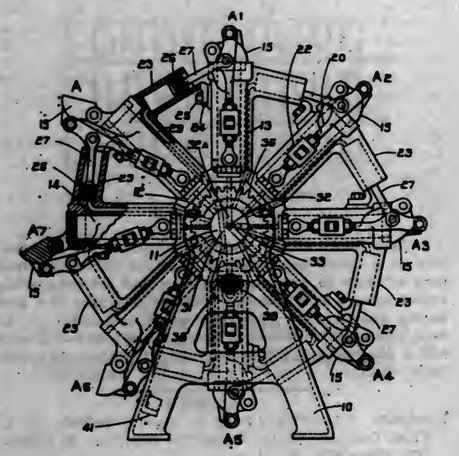
portion, said gauge being of a diameter larger than the small end of said tapered mandrel portion but smaller than the large end thereof.

1,455,974. CONTAINER AND HOLDER THEREFOR. FAUSTIN J. SOLON, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed July 1, 1921. Serial No. 481,762. 5 Claims. (Cl. 248—53.)



1. The combination of a rack or frame, a holder mounted thereon, a container carried by said holder, said holder being tiltable about an axis beneath the container to swing the container from an upright position, to a forwardly and upwardly inclined position, means to arrest the container at said positions, the container having an inclined open upper end, and an inclined closure device positioned to close the container as the latter swings from a tilted to an upright position.

1,455,975. APPARATUS FOR PUFFING OR DISINTEGRATING MATERIAL. ARTHUR R. SPENCER and WILLIAM J. PLEWS, Cleveland, Ohio. Filed Sept. 24, 1919, Serial No. 325,923. Renewed Oct. 19, 1922. Serial No. 595,675. 21 Claims. (Cl. 99—2.)

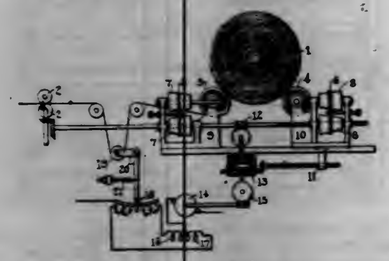


2. In a machine of the character described, a rotary member having a plurality of substantially radially dis-

posed treating chambers, and means for supplying a treating fluid to the different chambers as the rotary member is moved through its cycle of movement.

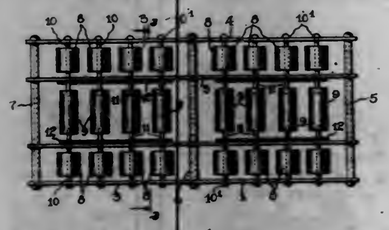
20. In a machine for treating materials, a rotary member having a plurality of substantially radially disposed chambers, each with a hinged cover at one end, means for supplying material to each chamber as it reaches a given position, means for causing the closure of a cover when it reaches another position, means for supplying a treating fluid to the chamber following the closure thereof, and means acting when the chamber reaches another position for causing the cover to be released so that it may be suddenly opened by pressure in the chamber.

1,455,976. TENSIONING MEANS FOR WEB ROLLS AND OTHER MATERIALS. WILLIAM C. STEVENS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 1, 1920. Serial No. 378,162. 14 Claims. (Cl. 242—66.)



1. In a device for tensioning material as drawn from or wound upon a roll, in combination, spaced supports for such roll, said supports being relatively movable for varying that pressure component due to gravity which is normal to the contacting portions of such roll and said supports.

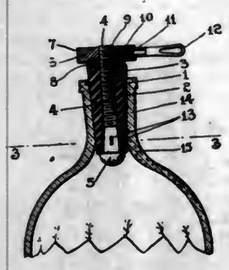
1,455,977. CONVEYER. JESSE L. WENTZ, Passaic, N. J. Filed Jan. 6, 1920. Serial No. 349,833. 4 Claims. (Cl. 193—35.)



1. In a device of the character described the combination of a frame comprising a plurality of longitudinal bars arranged in pairs and a plurality of lateral spacing braces, spaced shafts seated in the longitudinal bars and having end sections projecting beyond the inner bar of each pair of bars, rollers mounted loosely on said shafts and a pin engaging a plurality of said shafts to prevent their rotation.

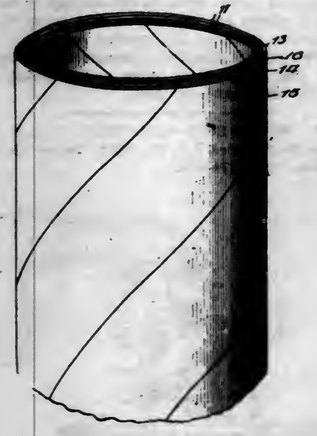
1,455,978. STOPPER. JESSE L. WENTZ, Passaic, N. J. Filed Dec. 22, 1921. Serial No. 524,121. 3 Claims. (Cl. 215—54.)

1. In a device of the character described, the combination of an expansible stopper, a bolt therein provided with a bur to prevent its rotation in the stopper and having a longitudinal key slot, a nut on the bolt adapted



to expand the stopper and a locking device concealed within the nut and including a pin adapted to engage the key slot and means for releasing the pin.

1,455,979. MOISTUREPROOF FIBER CONTAINER GEORGE W. WHEELWRIGHT, Bloomfield, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 18, 1919. Serial No. 290,958. 1 Claim. (Cl. 93—94.)

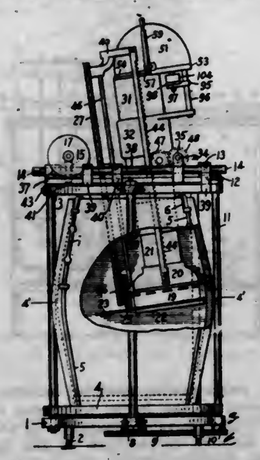


A composite body for a moisture-proof container consisting of an inner body formed of two plies of paper-like material spirally wound and united together, an outer body formed of two plies of paper-like material spirally wound independently of the winding of said inner body, a fused cement uniting the outer plies of said outer body, and a cylindrically continuous and impervious layer of fused cement entirely enclosing the side of said inner body and permanently uniting said outer body to said inner body.

1,455,980. DISPENSING APPARATUS FOR SEMI-SOLID OR PLASTIC MATERIALS. HARRY W. WILLIAMS, Dayton, Ohio, assignor to Charles F. Gardner, Dayton, Ohio. Filed June 27, 1921. Serial No. 480,684. 45 Claims. (Cl. 221—102.)

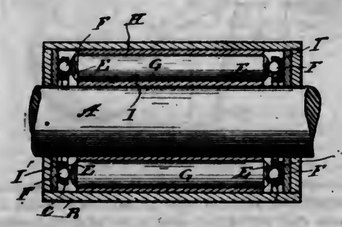
1. In an apparatus of the character described, a support for a container, a discharge device to remove the material from said container, one of said parts being rotatable relatively to the other, and means to cause said discharge device to move into said container as it discharges the material therefrom.

10. In an apparatus of the character described, a support for a container, a discharge device to remove material from said container, one of said parts being rotatable relatively to the other, and means for pivotally supporting said discharge device to permit it to follow the contour of the wall of said container.



29. In an apparatus of the character described, the combination with a delivery cup and a piston mounted in said delivery cup, of an indicator comprising a rotatable member, an operative connection between said rotatable member and said piston, and means for adjusting said connection to cause different amounts of movement to be imparted to said rotatable member by a given movement of said piston.

1,455,981. LUBRICATING SYSTEM FOR ROLLER BEARINGS. JOEL V. ZUPNIK, Cleveland, Ohio. Filed Apr. 3, 1922. Serial No. 549,281. 2 Claims. (Cl. 64—62.)



1. The combination with a shaft and housing, of a cage within said housing, comprising, spaced ring plates and connecting tie rods therefor, said ring plates provided with radial slots having bevelled edges, balls radially movable in said slots and projecting therethrough, rollers mounted upon opposed balls in said cage, inner and outer sleeves, enclosing said rollers, and porous washers adjacent to said ring plates in said housing, with which said protruding parts of said ball make contact.

1,455,982. PROJECTION PICTURE SCREEN AND PROCESS OF MAKING SAME. FRANK J. ADAMS, New York, N. Y., assignor, by mesne assignments, of one-half to Edgar J. Marston, Greenwich, Conn., and one-half to H. Armour Smith, Yonkers, N. Y. Filed Apr. 14, 1920, Serial No. 373,962. Renewed Aug. 2, 1921. Serial No. 489,198. 14 Claims. (Cl. 91—68.)

1. A screen for the exhibition of projected pictures, having a reflecting surface of paraffine of such a character as to diffuse substantially all incident light rays.

4. A screen for the exhibition of projected pictures fireproofed with ammonium salts and having a surface of paraffine.

5. A flexible starch-loaded screen for the exhibition of projected pictures having a surface of paraffine.

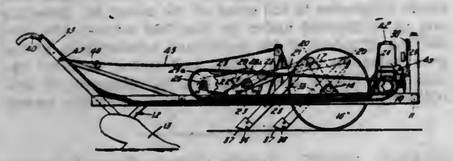
13. The process of making a picture projection screen, consisting in subjecting a flexible fabric to a fireproofing process, thereafter treating the same with a solution of starch, drying the same, and thereafter coating or impregnating it with paraffin wax.

1,455,983. CIRCULAR BOX FOR CIGARS. AARON H. BALLIET, Allentown, Pa. Filed Dec. 26, 1919. Serial No. 347,283. 4 Claims. (Cl. 217—1.)



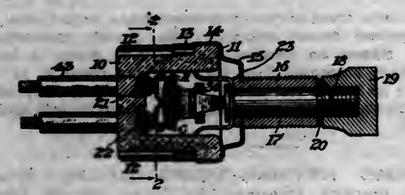
1. A cylindrical box comprising two walls of separate thin sheets having opposite edges of each sheet extending parallel to the axis, abutting, spaced circumferentially from the abutting edges of the other sheet and, throughout the greater part of their lengths having the edges free from fastening devices intended to hold the edges to each other or to the other sheet, in combination with uniting means holding the sheets at the top and bottom of the box.

1,455,984. TRACTOR CULTIVATOR. JAMES T. BARKLEW, Monterey Park, Calif. Filed Sept. 11, 1918. Serial No. 253,494. 10 Claims. (Cl. 180—8.)



1. In tractor mechanisms, a frame, a pivoted diagonal pusher leg movable with relation to the frame; and mechanism, to which the pusher leg is pivoted, mounted on the frame for moving the pusher leg longitudinally; the longitudinal center of gravity of said mechanism and frame being substantially in vertical alignment with the medial position of the upper end of said pusher leg.

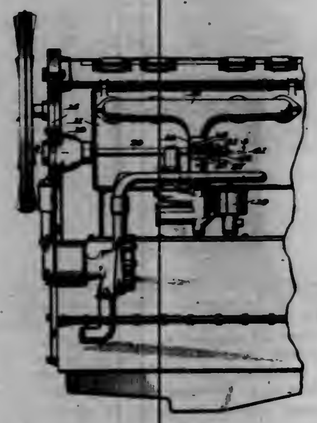
1,455,985. ELECTRIC SWITCH. RALPH A. BELMONT, New York, N. Y., and JOHN B. DOWNING, Newark, N. J., assignors to Beaver Machine & Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 19, 1921. Serial No. 462,666. 11 Claims. (Cl. 200—76.)



1. In an electric switch, terminals, a reciprocating member, means for actuating the same, and a contact

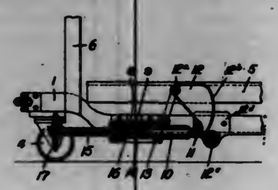
member carried by the reciprocating member and having overlapping resilient arms for contacting with the said terminals.

1,455,986. HYDROCARBON MOTOR. WALTER E. BLAINE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 8, 1917. Serial No. 185,141. 6 Claims. (Cl. 264—20.)



1. The combination with a hydrocarbon motor having gearing at one end thereof, an intake manifold at one side with a depending stem and a valve for controlling the flow of explosive mixture in said stem; of automatic means responsive to the speed of the motor for actuating said valve disposed under the manifold between the stem and the cylinders of the motor and substantially at the same elevation as the valve, and means to drive the automatic means from said gearing disposed at substantially the same elevation as the automatic means.

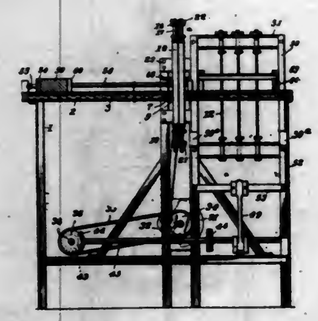
1,455,987. TRUCK. JOSEPH CYRILLE EMILE BOURASSA, Montreal, Quebec, Canada. Filed Nov. 8, 1919. Serial No. 336,565. 3 Claims. (Cl. 254—5.)



1. In a truck of the class described, a main frame, a superposed frame, swinging links directly connecting said frames, an abutment on the main frame, a cam pivotally suspended from the superposed frame so as to allow its face to rest on said abutment, and means pressing on the cam to cause said face to travel on said abutment.

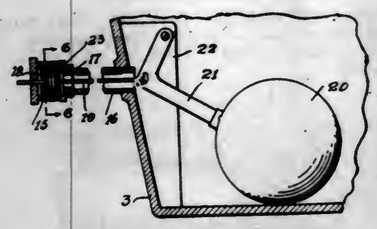
1,455,988. ICE-CREAM-CUTTING MACHINE. SILAS D. BRACKEN, Johnstown, Pa. Filed Mar. 15, 1922. Serial No. 543,906. 8 Claims. (Cl. 107—21.)

1. An ice cream cutting machine including a frame, a table supported by the frame and adapted to receive a slab of ice cream and provided with means for circulating a temperature controlling medium to prevent the slab of ice cream from freezing to the table, and a vertical movable cutter operated through the table, said temperature controlling means being located in advance and in rear of the cutter.



7. An ice cream cutting machine, including a frame, a table supported by the frame, transverse and side cutters, a front slide movable lengthwise of the machine, a rear slide movable transversely of the machine, said slides having beveled portions arranged to overlap, and means for guiding the slides.

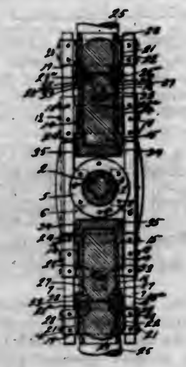
1,455,989. HOG-WATERING TROUGH. THURMAN CARMICHAEL, Marysville, Mo. Filed Feb. 1, 1922. Serial No. 533,317. 1 Claim. (Cl. 137—104.)



In a device of the class described, in combination, a liquid receptacle, an inlet pipe to said receptacle, a filter having one end secured to said inlet pipe, the other end of said filter being provided with a bearing opening, a valve rod extending through said filter and pipe and reciprocally mounted in the opening, a valve seat formed by narrowing the mouth of said inlet pipe adjacent the said filter, a valve disc permanently fastened to said valve rod and adapted to coact with the seat for opening and closing the valve, said filter including ribs onto which a screen of fine mesh is permanently fastened for the purpose of keeping out foreign matter, and float means to actuate the said valve.

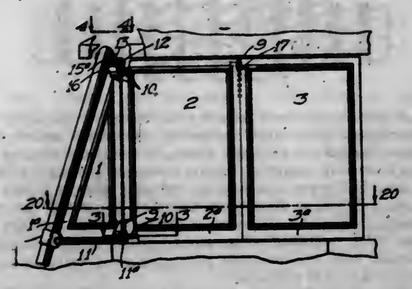
1,455,990. ADJUSTABLE-PITCH PROPELLER FOR AIRPLANES. SAMUEL W. CARTER, Washington, D. C. Filed Aug. 18, 1921. Serial No. 492,040. 4 Claims. (Cl. 170—163.)

1. The combination with a bearing sleeve disposed on the butt of a propeller blade, of means for securing said sleeve on said butt, said means comprising oppositely disposed blocks extending through openings in the sleeve and into registering recesses in the butt, marginal flanges carried by the blocks and engaging the sleeve for limiting



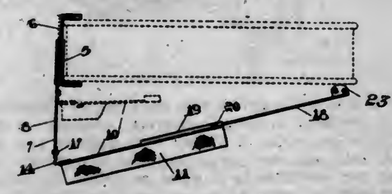
the inward movement of the blocks, and bolts extending through the butt and connecting together the oppositely disposed blocks.

1,455,991. COMBINED WIND DEFLECTOR, SUNSHADE, AND SIDE INCLOSURE FOR VEHICLES. CLARENCE E. CHILDS, Palo Alto, Calif. Filed Jan. 14, 1920. Serial No. 351,382. 22 Claims. (Cl. 296—45.)



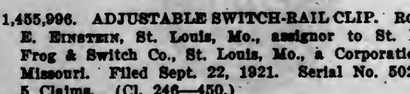
5. A vehicle top side inclosure, including a multiple axis supporting means, a panel member secured to a portion of said multiple axis supporting means at only one of the normally upper corners of said panel member, a socket means secured to the vehicle adapted to receive the free end of said panel member for supporting the lower end when said panel member is in a vertical position.

1,455,992. SHOULDER REST FOR VIOLINS AND THE LIKE. OLIVER S. COLBENTSON, Toronto, Ontario, Canada. Filed June 2, 1921. Serial No. 474,552. 8 Claims. (Cl. 84—278.)



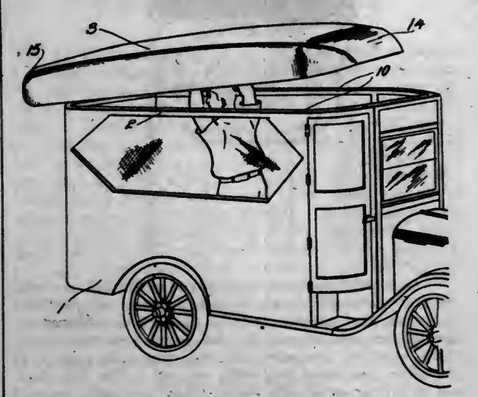
5. A shoulder rest for violins and the like comprising a clamp; a shoulder rest support carried thereby adjustable on the clamp to and from the back of the violin; a plate on said support forming a shoulder rest; a pad on said rest adjacent the support; a hinge connecting the plate and the support whereby the plate may rock on an axis longitudinal of the violin; and spring means tending to hold the distant end of the plate in contact with the back of the violin with which the device is used.

1,455,993. NECKLACE-FASTENING DEVICE. PATRICK JOSEPH CONWAY, Providence, R. I. Filed June 30, 1922. Serial No. 571,978. 3 Claims. (Cl. 24—123.)



1. In a fastening device, a tubular body, sleeves adapted to screw into said body, said sleeves being hollow to receive the ends of a necklace cord so that the cord may be tied by the respective ends on the inside thereof.

1,455,994. VEHICLE TOP AND BOAT. JOHN A. COWAN, Kansas City, Mo. Filed July 15, 1921. Serial No. 484,860. 2 Claims. (Cl. 296—137.)



1. The combination with a vehicle having an inclosing body comprising side walls, and end walls, and a boat, the shape and size of which conforms to the contour of the upper edge of the body so that the boat can be applied to the top of the body to constitute a roof, the boat being removable therefrom to function as such.

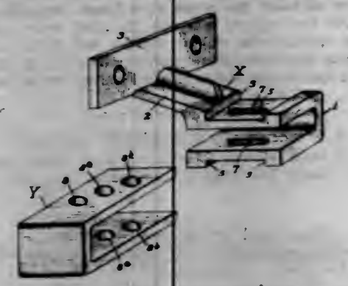
1,455,995. BLEACHING EARTH. CARL CRAMER, Zurzach, Switzerland. Filed Feb. 27, 1922. Serial No. 539,714. 2 Claims. (Cl. 252.)

1. A process for obtaining bleaching earths having a high bleaching effect by treating aluminium hydro-silicates with an acid, consisting in mixing the aluminium hydro-silicates with dilute hydrochloric acid and emulsifying the resulting mixture intensely in the cold.

1,455,996. ADJUSTABLE SWITCH-RAIL CLIP. ROBERT E. EINSTEIN, St. Louis, Mo., assignor to St. Louis Frog & Switch Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 22, 1921. Serial No. 502,322. 5 Claims. (Cl. 246—450.)

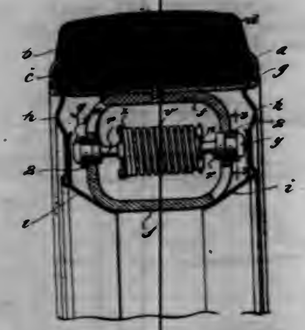
3. An adjustable switch clip, comprising a stationary part that is adapted to be connected to a movable switch rail, and a transversely adjustable element on said part

having provision for enabling a switch rod to be connected to same at a number of points, said element being



so constructed that it can be reversed end for end for the purpose described.

1,455,997. SPRING RIM. PETER EISENBACH, Detroit, Mich. Filed Apr. 17, 1922. Serial No. 553,913. 11 Claims. (Cl. 152—37.)



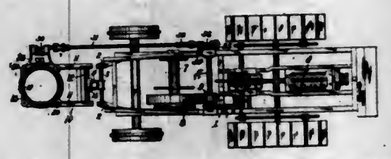
1. In a traction wheel, a composite spring rim comprising a tire channel, a pair of flanged rings, one arranged in concentric relation within the other, compression spring elements connecting the same and tending to resist eccentric movement of one ring with respect to the other, the outer ring being secured to the tire channel, a pair of outer side spring rings detachably secured to the tire channel, a pair of inner side spring rings secured to the inner first mentioned ring, the side rings at each side having spring contact, but in sliding relation, to permit the eccentric movement of the parts of the wheel and at the same time housing the first mentioned rings and the springs.

1,455,998. CALLING-DEVICE ATTACHMENT. FREDERICK W. FAHRENFELD, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 1, 1920. Serial No. 378,242. 8 Claims. (Cl. 179—90.)



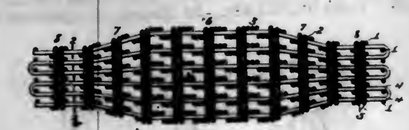
1. A tensioned protecting ring for a calling device, formed from steel and having a groove adapted to engage the outer edge of said device under its own tension, to protect the finger-hole dial and prevent the bending or damaging of said dial.

1,455,999. ATTACHMENT FOR PIPE-PULLING MACHINES. LOUIS W. FETZER, Findlay, Ohio, assignor to The Traction Machine Company, North Baltimore, Ohio, a Corporation of Ohio. Filed Mar. 13, 1922. Serial No. 543,346. 6 Claims. (Cl. 255—35.)



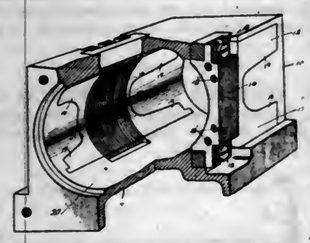
1. In combination, a support, a horizontally disposed bracket frame projecting from and carried by the support, a second frame adjustably mounted on the bracket frame, an annular member mounted on and guided by the second frame for rotary movements, and means for imparting rotation to the annular member.

1,456,000. CONVEYER BELT. WILLIAM C. FISHER, Middletown, Conn., assignor to Russell Manufacturing Company, Middletown, Conn. Filed June 5, 1919. Serial No. 302,009. 1 Claim. (Cl. 139—9.)



A woven conveyer belt consisting of a plurality of interwoven plies and containing the same number of plies throughout, each ply having a maximum amount of warp thread material in its central portion, a less number of warp threads in its side portions, and a number of warp threads in the portions of the belt between said central portions and side portions which is less than the number of warp threads in said central portion and greater than the number of warp threads in the said side portions.

1,456,001. MAGNETO. HARRY FORREST GEIST, Sumter, S. C. Filed Sept. 2, 1919. Serial No. 321,065. 9 Claims. (Cl. 171—209.)



1. In a wound armature type magneto, the combination of a revoluble armature, carrying windings, a field structure comprising a frame, field magnets and pole shoes, said pole shoes being composed of magnetic material and substantially I shape to reduce the central polar magnetic areas without reducing the length of the polar tip edges.

6. In a wound-armature type magneto, the combination of a field structure comprising field magnets and pole

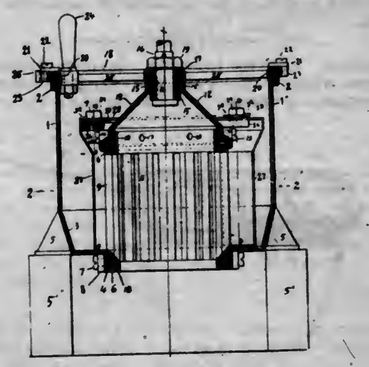
shoes, said shoes being composed of central laminated portions and end portions provided with laterally extended polar tips; and an armature comprising a core carrying primary and secondary windings, said core comprising a laminated web portion of a width substantially equal to that of the laminated portions of said field pole shoes, and extended pole faces of a length substantially equal to that of said polar tips.

1,456,002. MACHINE FOR SETTING FASTENERS. SYLVESTER L. GOOKIN, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 15, 1918, Serial No. 240,202. Patent No. 1,371,364, dated Mar. 15, 1921. Divided and this application filed June 30, 1920. Serial No. 392,910. 10 Claims. (Cl. 218—15.1.)



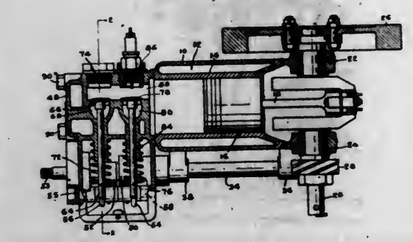
4. In a fastener-setting machine, two raceways constructed and arranged to carry different styles of fasteners, a single hopper arranged to supply both raceways, said types of fasteners being adapted to become nested within one another, said hopper being constructed and arranged to supply fasteners of only one style to one of the raceways, and an agitator constructed and arranged to stir up the mass of fasteners and thereby to disengage those fasteners which have become nested.

1,456,003. GRAIN-CUTTING MACHINE WITH AUTOMATIC SCOOPS. DAVID GUELBAUM, Syracuse, N. Y. Filed Jan. 24, 1923. Serial No. 614,589. 5 Claims. (Cl. 83—6.)



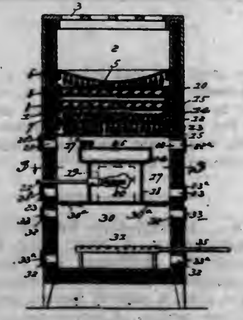
1. A grain cutting machine, comprising a grain hopper with an offset flanged top supporting the rim of a hand wheel and having a tapered bottom with an open neck in centre, a stationary slotted cylinder fastened inside of said hopper and a rotating slotted cylinder with sharp cutting edges inside of said stationary cylinder, a cone shaped cover with its top fastened to the hub of said hand wheel and holding fast in its bottom the top of said rotating cylinder, scoops for thrusting the grains into the slots of said stationary cylinder, means for supporting said scoops and automatically adjusting them to the direction of rotation of said hand whel, substantially as and for the purpose specified.

1,456,004. INTERNAL-COMBUSTION ENGINE. GEORGE E. GUNTHER, St. Paul, Minn. Filed Apr. 12, 1920. Serial No. 373,137. 2 Claims. (Cl. 123—82.)



2. An internal combustion engine comprising a casing, a cylinder within said casing, a piston within said cylinder, driving connections associated with said piston at one end of said cylinder, a shaft driven by said connections, a head member detachably secured to said casing at the other end of said cylinder whereby access may be had to the latter, inlet and outlet valves having stems in said head member, springs surrounding said valve-stems, a cam shaft for operating said valves, said cam shaft being mounted in said head member and detachably connected to said first-mentioned shaft, rocker-arms interposed between said cam shaft and said valve stems, a rod upon which rocker-arms are mounted, a bearing for said cam-shaft detachably secured to said head member, said bearing having a flange for retaining said rod when the bearing is secured in place, and a cap detachably secured to said head member whereby access may be had to said springs and said rocker arms.

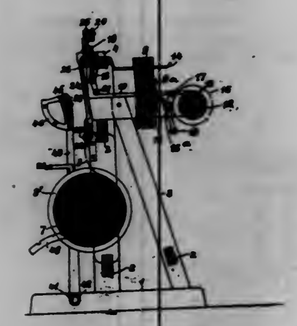
1,456,005. INCUBATOR. JACK HARRIS, Oklahoma, Okla. Filed July 24, 1922. Serial No. 577,139. 6 Claims. (Cl. 119—35.)



1. In an incubator, a casing having a hen compartment at its upper end including a nest, an egg tray compartment below the nest compartment, a heat com-

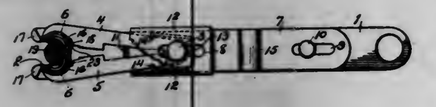
partment in the lower portion of the casing including a heater, for keeping the interior of the incubator warm and at the proper temperature to hatch the eggs.

1,456,006. MACHINE FOR UNITING TOGETHER THE THREADS OF TWO WARPS. ROBERT HARTMANN, Uster, Switzerland. Filed Mar. 25, 1921. Serial No. 455,433. 20 Claims. (Cl. 28—49.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine for uniting the threads of two warps, the combination of two pairs of clamping bars for holding the warps vertically side by side, a knotting mechanism situated straddlewise over the clamping bars, a carriage carrying the knotting mechanism and being guided by the clamping bars serving for holding the warps, means for causing the carriage to travel intermittently and across the length of the warps, a beam supporting the clamping bars for the old warp and removably mounted on the machine framing, in such a manner, that this beam together with the clamping bars, and the parts carried by the latter can be lifted off the machine framing and placed upon a loom for the purpose of knotting a fresh warp therein.

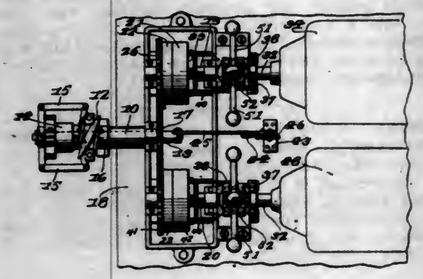
1,456,007. VALVE-STEM-KEY TOOL. FREDERICK C. HARTSON, Rosedale, Kans., and GEORGE A. DONATH, Kansas City, Mo. Filed Apr. 28, 1921. Serial No. 465,307. 13 Claims. (Cl. 29—86.1.)



1. A valve stem key tool comprising a shank having in one end a notch adapted to receive a valve stem, two jaws pivoted to said shank and having means for gripping a valve key and applying it to a valve stem disposed in said notch, and means for opening and closing said jaws, substantially as set forth.

1,456,008. AEROPLANE PROPELLER. ALFRED NUANES, Albuquerque, N. Mex. Filed Feb. 24, 1922. Serial No. 538,928. 2 Claims. (Cl. 244—25.)

1. In an aeroplane driving mechanism, a propeller shaft having a gear, a pair of motors each including a divided shaft one portion of which has a gear engaged with the propeller shaft gear, a clutch element on the last-named gear, a governor for each motor including a rotatable hollow shaft, a rod slidable through the hollow shaft, driving connections between the divided shaft and the hollow shaft, a rock shaft, a clutch element slidable on the gear carried portion of the divided shaft, con-



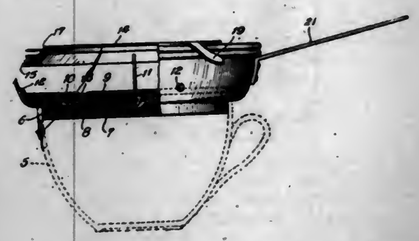
nections between the slidable rod and the rock shaft, and connections between the slidable element and the rock shaft.

1,456,009. AUTOMATIC LUBRICATING DEVICE FOR REMOTE MOVABLE AND OTHER PARTS. JOHN V. RICE, Jr., Bordentown, N. J., assignor to Rice Gas Engine Company, Bordentown, N. J., a Corporation of New Jersey. Filed Aug. 28, 1920, Serial No. 406,723. Renewed Mar. 13, 1923. 6 Claims. (Cl. 184—6.)



6. The combination with a moving rod or the like mechanical part, having a chamber thereof of a differential character, a plug in the outer and larger part of said chamber, said plug having a cavity therein and an opening leading to the cavity, a primary spring-provided ball valve controlling said opening, a free pumping member in the part of the chamber of smaller diameter, said member having a cavity therein and a passage leading from the cavity in the plug, and a secondary spring-provided ball valve controlling the passage in the plunger, said valves operating automatically and alternately during the reciprocations of the parts to lift the lubricant and feed it forward for use while the mechanism is running.

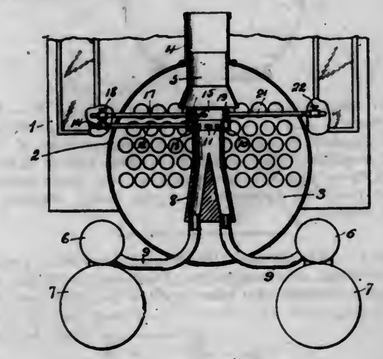
1,456,010. COFFEE INFUSER. ISAAC D. RICHHEIMER, New York, N. Y. Filed Mar. 27, 1922. Serial No. 547,210. 5 Claims. (Cl. 53—3.)



1. A coffee infusing device comprising a receptacle open at the top and having a perforated bottom, and a

cover adapted to engage said top for closing the receptacle, said cover having a substantially flat central portion of extended area, a depressed ring between the central portion and the edge of the cover, and an annular shoulder between the depressed portion and the central portion, said annular shoulder forming a support for the receptacle when the cover is arranged in inverted position and spacing the bottom of the receptacle from the central portion of the cover.

1,456,011. GAS GUARD AND LUBRICATOR FOR STEAM ENGINES. JOHN P. RYDER, Kansas City, Mo. Filed Dec. 13, 1920. Serial No. 430,368. 5 Claims. (Cl. 121—137.)



1. In an apparatus of the kind described, the combination with the boiler, steam chest and exhaust conductor of an engine, of means by which steam from the boiler may be forced through the exhaust conductor toward the steam chest, substantially as set forth.

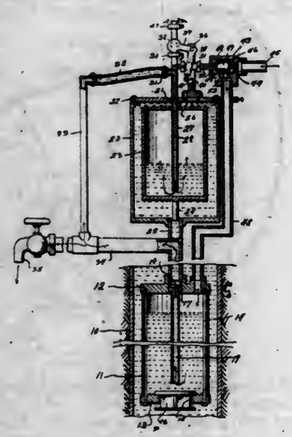
1,456,012. CORN-SNAPPING MACHINE. EDWARD SAUNDERS, Denver, Colo., assignor of forty-nine one-hundredths to Harry Buxton, Denver, Colo. Filed May 4, 1922. Serial No. 558,457. 3 Claims. (Cl. 56—63.)



1. A corn snapping machine, comprising a framework, an axle, and a pair of wheels upon which said framework is supported, a pair of forwardly and downwardly projecting members spaced to form a slot between them, and having their rear ends pivotally mounted on said axle, said members adapted to straddle a row of corn stalks, a sickle near the rear end of said slot, said sickle being adapted to sever an ear of corn from the stalk, means for moving said sickle, an elevator, means for operating said elevator, a roller carried by the forward ends of said members, and means for adjusting the height of the front ends thereof.

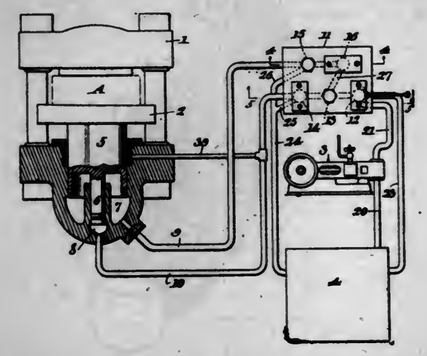
1,456,013. PNEUMATIC PUMP. THOMAS E. SMYTHE, Grand Rapids, Mich. Filed July 30, 1921. Serial No. 488,593. 14 Claims. (Cl. 103—248.)

1. In pneumatically operated mechanism, a fixed liquid filled tank, a hollow air-tight float therein, a fixed liquid receiving tank, and means operated by the full rise of the float causing the discharge of a portion of the liquid in the receiving tank into the float to thereby compress the air in the upper portion of the float and cause the



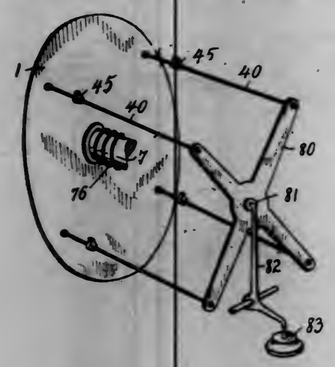
float to sink, and means operated upon the full downward movement of the float causing the filling of the receiving tank and permitting the discharge of water from the float by the air compressed therein.

1,456,014. MEANS FOR OPERATING PRESSES. FRANCIS E. STEVENSON, Mount Gilead, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed Nov. 19, 1921. Serial No. 516,508. 13 Claims. (Cl. 138—17.)



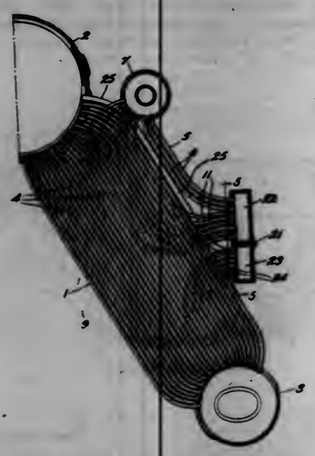
1. The combination of small and large rams working in small and large cylinders respectively, and a fluid-circulating system for applying pressure thereto comprising a pump, a reservoir, a valve casing, a line of communication from the pump through the valve casing to the small cylinder, valve in said line freely opened by pressure, a line of communication to the large cylinder branching from said first line, a spring-closed valve therein which opens only after a predetermined pressure has been reached in the first line, and a line of communication branching from said second-named line between the spring-pressed valve and the large cylinder and leading to the reservoir, a valve therein freely opened by suction from the large cylinder but automatically closed as soon as the spring-pressed valve is opened.

1,456,015. SELF-INDICATING TARGET. ANTON VANGEN, Vestmarken, Norway. Filed Aug. 29, 1922. Serial No. 585,051. 2 Claims. (Cl. 124—15.)



1. A self-indicating target comprising a target section, and an auxiliary section behind the latter, both capable of axial and tilting movement, a plurality of parallel rods connected to the sections near the outer portions thereof, and an indicating device operable by the axial movement of the auxiliary section.

1,456,016. LIQUID HEATER AND VAPORIZER. CHARLES E. WARD, Charleston, W. Va. Filed Mar. 14, 1921. Serial No. 452,044. 7 Claims. (Cl. 122—478.)



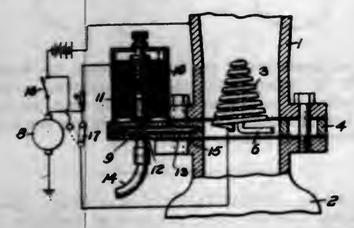
1. In a steam boiler the combination of an upper and a lower drum; a set of steam generating tubes joining said drums inclined to a horizontal plane and so arranged as to provide a plurality of open-ended lanes extending lengthwise of said tubes and transversely of said drums; an upper and a lower superheater receptacle, said lower receptacle being disposed sufficiently above said lower drum as to occupy substantially the same vertical plane as said lower drum; a set of superheater tubes joining said superheater receptacles arranged in a plurality of rows and adapted to enter and occupy a portion only of the length of said lanes; and means adapted to occupy another portion of the length of said lanes and to prevent hot gases from passing therethrough, substantially as described.

1,456,017. ATTACHMENT FOR SLOP JARS AND THE LIKE. CHARLES W. WEAVER and ALICE H. WEAVER, Denver, Colo.; said Charles W. Weaver assignor to said Alice H. Weaver. Filed Feb. 17, 1922. Serial No. 537,253. 2 Claims. (Cl 215—37)



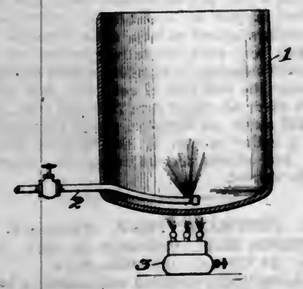
1. In combination, a vessel, a cover adapted to be applied thereto, said cover having an outwardly extending flange adapted to contact with the upper edge of the vessel, a resilient ring U-shaped in cross section applied to said flange and adapted to separate the lower surface thereof from the upper edge of the vessel, whereby a seal is formed.

1,456,018. INTERNAL-COMBUSTION ENGINE. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed July 2, 1920. Serial No. 393,552. 2 Claims. (Cl. 123—122.)



1. The combination with an internal combustion engine of an electric starting motor, of means for spraying an inflammable fluid into a pipe connected to the combustion chamber, an electrically controlled means for controlling the spraying means, an electrically heated device, arranged in said pipe intermediate the point of entrance of the spray and the engine and a switch for controlling said several mechanisms.

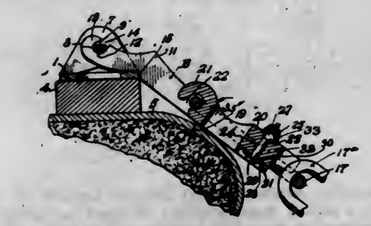
1,456,019. PROCESS FOR EXTRACTING OIL. HARTLEY A. WENTWORTH, Deer Island, New Brunswick, Canada. Filed Oct. 4, 1920. Serial No. 414,525. 1 Claim. (Cl. 87—12.)



A process for extracting oil comprising putting twenty-five gallons of fish matter into a receptacle, then injecting

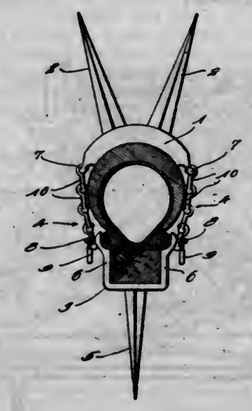
live steam into the fish matter and heating said fish matter to the boiling point, and then shutting off the steam, then thoroughly stirring a mixture of ten pounds of seventy-six per cent caustic soda in three gallons of water in the steam treated fish matter, then adding to the mixture one gallon of sixty degrees of commercial sulphuric acid by pouring the acid in very slowly while continually stirring the mixture, and then allowing the mixture to stand undisturbed for a period, the oil then being removed, all substantially as described.

1,456,020. HAME TUG. THOMAS W. GRAHAM, Blue Mountain, Miss. Filed Jan. 29, 1920. Serial No. 354,952. 9 Claims. (Cl. 54—30.)



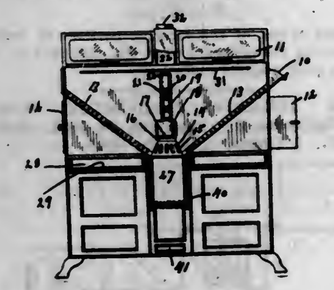
1. A trace connection for a hame tug including a web portion, a boss thereon terminating at one end in a hook, the boss being of a shape and dimensions to substantially fill the opening of a trace chain link engaged with the said hook.

1,456,021. AUTOMOBILE WHEEL LOCK. DANIEL A. HEDGLIN, San Francisco, Calif. Filed Feb. 18, 1921. Serial No. 445,970. 2 Claims. (Cl. 70—90.)



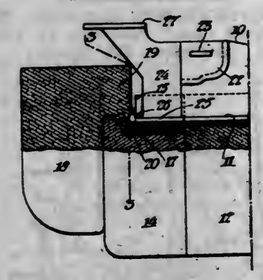
1. An automobile wheel lock of the type specified comprising a substantially arcuate tire tread engaging member for transverse disposition on the tire, said member having comparatively small heads at its opposite ends spaced from the body portion and connected thereto through the medium of necks, ground-engaging means carried by said tread member, a substantially U-shaped wheel rim engaging member having comparatively long side portions or arms having their extremities shaped to engage the tire rim, eyes carried by said extremities, connecting chains having their end links engaged with the aforesaid heads and said eyes respectively, padlocks for co-operation with said eyes to connect the adjacent end links therewith, and a spur integral with the intermediate or connecting portion of the wheel rim engaging member, said spur being intended for disposition between the spokes of the wheel and having its free end directed toward the hub of the wheel, said spur serving to prevent rotation of the device in the manner described.

1,456,022. DESICCATING AND INCINERATING RANGE. NEVIL MONROE HOPKINS, New York, N. Y. Filed May 25, 1921. Serial No. 472,563. 6 Claims. (Cl. 126—222.)



1. In a cook stove, adapted to desiccate garbage, the combination of a lower body portion; an enclosed garbage desiccating chamber above said body portion; a chute for receiving the garbage located in said chamber; a compartment in said chamber below said chute; a member located in said chamber provided with perforations through which hot gases may pass into said chamber; and a baffle disposed in the upper portion of said chamber around which said gases may escape.

1,456,023. FURNACE ARCH CONSTRUCTION. LOUIS H. HOSBEIN, Chicago, Ill., assignor to M. H. Detrick Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 26, 1918. Serial No. 224,749. Renewed May 9, 1921. Serial No. 468,047. 12 Claims. (Cl. 110—95.)

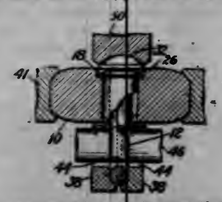


6. In an end bracket for arch bars, a body having a basal brick-supporting flange extending longitudinally of and beyond one end of the body, the extension of said flange having at its outer end an up-standing brick-locking projection, and said body having means whereby the bracket may be affixed to an arch bar.

1,456,024. METHOD OF ASSEMBLING BUTTONS. ALBERT LATHAM, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Filed Dec. 6, 1919. Serial No. 342,968. 15 Claims. (Cl. 79—2.)

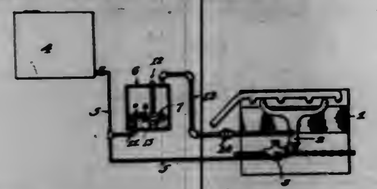
1. The method of assembling a button having a body portion and securing portions, which consists in bring-

ing the securing portions into co-operation within the body portion, and exerting pressure upon the opposite



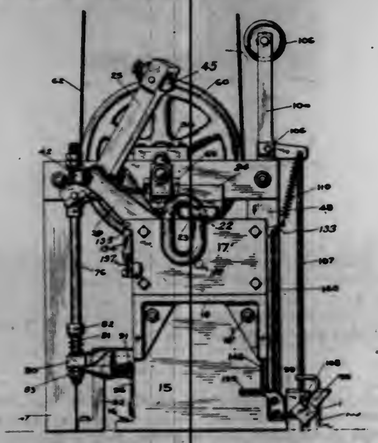
extremities of one of the securing portions to expand it while leaving the elements over the exposed face of the button in their original condition.

1,456,025. AUXILIARY CARBURETOR. HARRY M. LEE, Chillicothe, Ill. Filed Feb. 20, 1922. Serial No. 538,120. 2 Claims. (Cl. 123—134.)



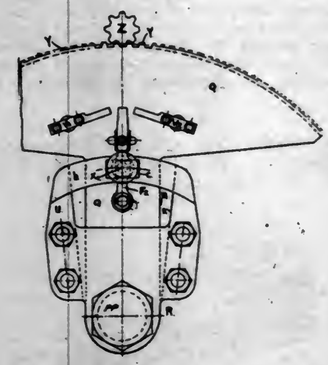
1. The combination with the intake manifold of an internal combustion engine and a fuel tank for supplying fuel to the carburetor of the engine, of a second tank a pipe connecting the first named fuel tank with the said carburetor, a branch pipe connecting said pipe with the said second tank, a valve to control the flow of fuel through said branch pipe, a float in said second tank in control of the valve for maintaining a substantially fixed level of the fuel, a compartment in said second tank separate from that having the float but communicating therewith, a pipe depending at one end into the fuel of said compartment and extending into the atmosphere at the other end, and a conduit connecting the said second tank above the fuel with the intake manifold.

1,456,026. CHAIN-WELDING MACHINE. THOMAS C. LUCE, Stratford, Conn. Filed June 18, 1919. Serial No. 305,170. 53 Claims. (Cl. 59—31.)



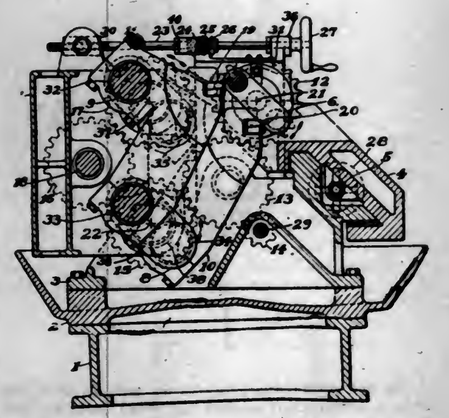
1. In a chain welding machine, an anvil, two vertically swinging hammers mounted to deliver blows upon the same face of work on said anvil, and means to selectively operate either of said hammers.

1,456,027. AUTOMATIC CIRCUIT CLOSER. JOHN MACKINTOSH, Paisley, Scotland. Filed Aug. 24, 1920. Serial No. 405,662. 1 Claim. (Cl. 200—17.)



A movable member, spaced electric contacts carried thereby, a switch finger pivotally mounted on said movable member for movement between and to either of the contacts, yieldable means to normally hold said finger out of contact, and means to limit the extent of movement of said movable member and to also move said finger into contact with one of said electric contacts according to the direction of movement of said movable member.

1,456,028. MACHINE FOR TURNING CRANK PINS OF CRANK SHAFTS. KARL FREDERICK MARX, Detroit, Mich. Filed Nov. 22, 1920. Serial No. 425,870. 4 Claims. (Cl. 82—9.)



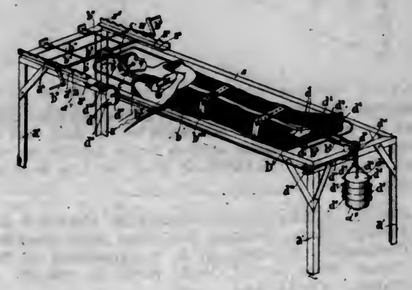
1. In a metal working machine, means for causing a piece of work to move in a circumferential path, a tool, an angular tool holder having a short arm and a long arm with the tool at the juncture of said arms, and means engaging an end of each arm of said angular tool holder for maintaining said holder vertical and for causing said tool in its holder to travel in a circumferential path having an eccentric relation to the first mentioned path so that the tool may constantly operate upon the piece of work.

1,456,029. AUTOMATIC PACKAGE SEPARATOR FOR CONVEYER SYSTEMS. THOMAS M. MILLS and JOHN T. CLARK, Fresno, Calif.; said Mills assignor to said Clark. Filed Aug. 22, 1922. Serial No. 583,621. 11 Claims. (Cl. 193—35.)



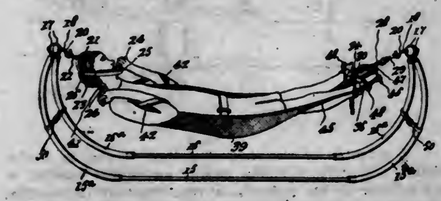
1. A conveyer table comprising a plurality of sets of rollers, the rollers of each set being so mounted that a plane passing centrally through all of said rollers is slightly inclined to the horizontal.

1,456,030. APPARATUS FOR PHYSICAL CULTURE. WALTER DAVID MOLBY, Baldwin, Kans. Filed Mar. 16, 1921. Serial No. 452,878. 11 Claims. (Cl. 46—69.)



2. An apparatus for physical culture comprising a frame, a pair of coaxially and freely pivoted supports in the frame adapted to engage the head and feet of the body of the operator for suspending his body and permitting of the turning and twisting of the body by exercising contortions of the operator, and means for exerting a tension on one support to stretch the body.

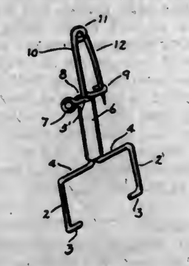
1,456,031. PHYSICAL-CULTURE APPARATUS. WALTER DAVID MOLBY, Baldwin City, Kans. Filed Sept. 3, 1921. Serial No. 498,352. 11 Claims. (Cl. 46—69.)



1. In physical culture apparatus, a frame having resilient spaced upright end portions, and freely pivoted means carried by said end portions for engaging the opposite extremities of the body of the operator for suspending his body between said upright portions and permitting the free twisting bending and turning of the body by the exercising contortions of the operator.

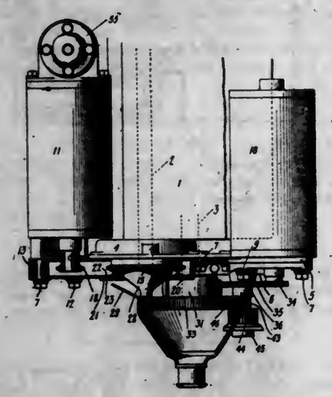
1,456,032. SEWING ACCESSORY. VIRGINIA VESTA MOORE, Los Angeles, Calif. Filed May 16, 1922. Serial No. 561,299. 4 Claims. (Cl. 242—136.)

1. A spool holder comprising a pair of shank members provided with spool hooking end portions, one of the shanks having a thread guide at one end, the other shank being provided with a safety pin portion, and



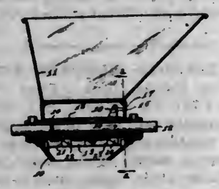
means for fastening the shanks in substantially closed parallel position.

1,456,033. ELECTRIC STARTING AND GENERATING APPARATUS. WILLIAM B. MOSES, Portland, Me. Filed Mar. 30, 1917, Serial No. 158,547. Renewed Oct. 4, 1922. Serial No. 592,442. 20 Claims. (Cl. 290—37.)



6. In apparatus of the character described in combination, a two unit starting and generating system comprising means extending outwardly at opposite sides of the front of an engine adapted to support the units, said means having rear attaching faces, a generator unit mounted on said means with an end abutting one of said faces, a motor unit mounted on said means with an end abutting another of said faces, and power transmission devices for connecting said units with the crank shaft of the engine.

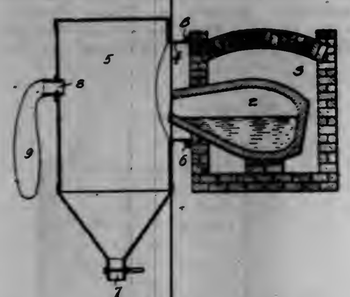
1,456,034. FEED CUTTER. ALBERT G. NEWMAN, Stanhope, Iowa. Filed Sept. 27, 1921. Serial No. 503,646. 1 Claim. (Cl. 83—6.)



In a feed cutting mill, a device for cutting ears of corn or the like comprising a rotary body portion, a

series of cutting blades extending outwardly from said body portion and said blades being arranged spirally around the body portion, a stationary coacting cutting member comprising a body portion and a series of blades, the alternate ones of said blades being elevated above the other, said parts being so arranged and proportioned that when an ear of corn or the like enters between the blades, one of the rotating blades will first engage the ear of corn and tilt it to position so that part of the ear of corn is resting upon the lower stationary blades and a part on one of the upper stationary blades so that when the cut is completed the ear will be cut through at an angle divergent to a line at right angles to the longitudinal axis of the ear of corn.

1,456,035. METAL DUST AND PROCESS OF MAKING THE SAME. MINTON H. NEWELL, San Francisco, Calif., assignor to The Alloys Company, San Francisco, Calif., a Corporation of California. Filed Sept. 23, 1918. Serial No. 255,314. 9 Claims. (Cl. 75—153.)



1. A process for manufacturing metal dust, comprising vaporizing the metal and condensing the vapor in the presence of a limited regulated supply of oxygen.

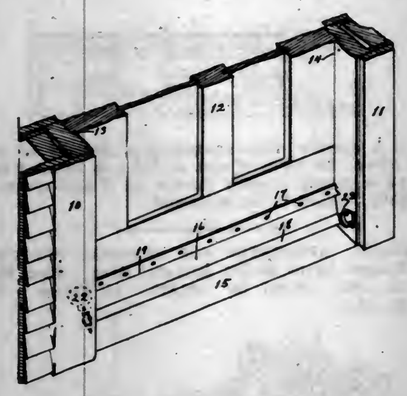
1,456,036. ENVELOPE FASTENER. EUGENE F. NISSEN, Alameda, Calif. Filed May 18, 1920. Serial No. 382,431. 3 Claims. (Cl. 229—78.)



1. An envelope fastener including a disk having radial outwardly projecting peripheral points, foldable outwardly, other points formed within the periphery and foldable inwardly; and aligned strips cut from the body of the disk having points extending outwardly beyond the peripheral edges of the disk, and foldable thereon.

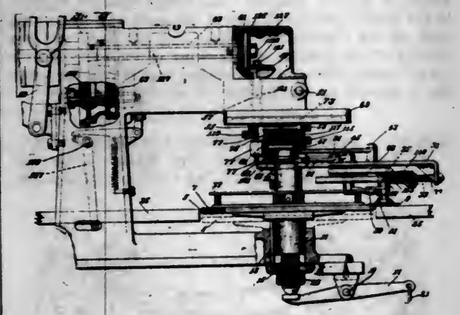
1,456,037. THRESHOLD WEATHER STRIP. GEORGE P. RASCK, Des Moines, Iowa. Filed Oct. 31, 1921. Serial No. 511,731. 2 Claims. (Cl. 20—67.)

1. The combination with a door casing, door and threshold, of a weather-strip comprising a metallic strip secured at its upper margin to the lower portion of said door, said metallic strip being resilient and normally standing at an angle away from the door, said metallic strip being formed at its lower margin with a recurved loop opening toward the door, a compression strip substantially T-shaped in cross-section having its leg flange mounted in said loop and its head directed toward the door, and curved guides carried by the door casing and adapted to be engaged by end portions of said loop



when the door is closed, and said guides being so curved and the weatherstrip so positioned on the door that the head of the compression strip is forced against the door and also against the threshold when the door is closed.

1,456,038. SOLE-CUTTING MACHINE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 11, 1918. Serial No. 262,106. 21 Claims. (Cl. 12—24.)

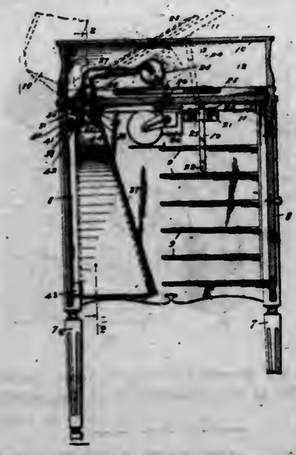


1. A machine of the class described, having in combination, a matrix, a clamp having an outline similar to but smaller in its dimensions than that of the matrix, means for producing relative movement of approach between the clamp and the matrix to force a portion of a sheet of stock into the matrix and for holding the clamp and matrix from relative rotation, a cutter, and means for causing the stock along the entire edge of the matrix to be severed by the cutter.

1,456,039. PHONOGRAPH. GEORGE M. RENTZ, Wells, Minn. Filed Nov. 21, 1921. Serial No. 516,850. 3 Claims. (Cl. 274—2.)

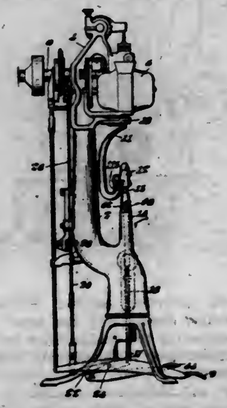
1. The combination with a cabinet having a displaceable table top, of a tone arm mounted on the table top, a sound amplifier with which the tone arm has communication through a passageway in the table top, and

yielding means entirely suspending the sound amplifier from its receiving end within the cabinet and under



strain to lift the same, said sound amplifier being arranged to be engaged by the table top and depressed thereby to form a tight joint therebetween.

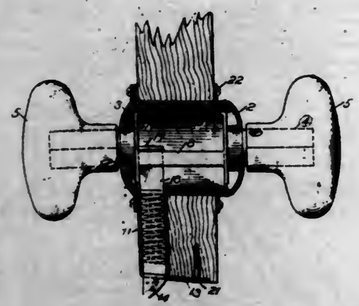
1,456,040. WORK SUPPORT. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 12, 1920. Serial No. 358,023. 20 Claims. (Cl. 1—41.)



1. In a machine of the class described, the combination of a supporting member, a horn normally freely rotatable on the supporting member, means for mounting the supporting member for up and down movement to adjust the horn, and a latch for securing the horn to the supporting member to enable the supporting member and horn to be adjusted by manipulation of the horn.

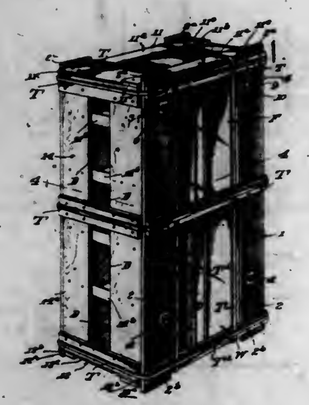
1,456,041. DOOR LOCK. WALTER R. SCHLAGE, Berkeley, Calif., assignor to Schlage Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed Apr. 12, 1920. Serial No. 373,042. 14 Claims. (Cl. 292—169.)

1. In a lock of the character described a cylindrical shaped elongated housing open at one end and closed at the other, the closed end of said housing adapted to project through the door in which it is mounted, an escutcheon plate adapted to be secured to the door and form a closure for the open end of the housing, a second escutcheon plate slidable over a closed end of the



housing and also adapted to be secured to the door, a spindle extending through the first named escutcheon plate and the closed end of the housing and journaled in said respective members, a latch carried by the housing, and means actuated by the spindle for retracting and extending the latch.

1,456,042. SHIPPING CRATE. FRED A. SCHMITZ, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 23, 1921. Serial No. 486,968. 15 Claims. (Cl. 217—52.)

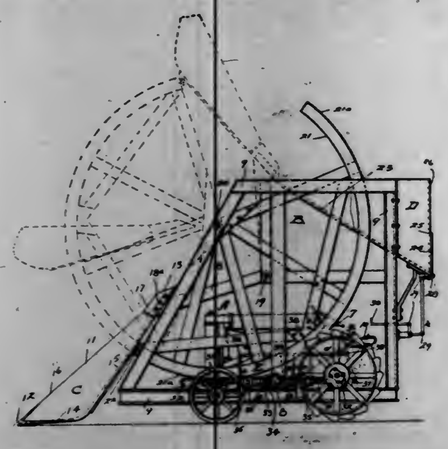


1. A crate of the class described comprising a plurality of separate crate frames arranged for assembling about the article to be shipped, binders for holding the said frames in assembled relation, and fasteners connecting a frame and the article.

1,456,043. MUCKER. ELMER WILLIAM SMITH, Los Angeles, Calif., assignor of one-half to Elizabeth O. Allen, Los Angeles, Calif. Filed Jan. 21, 1921. Serial No. 438,876. 10 Claims. (Cl. 214—78.)

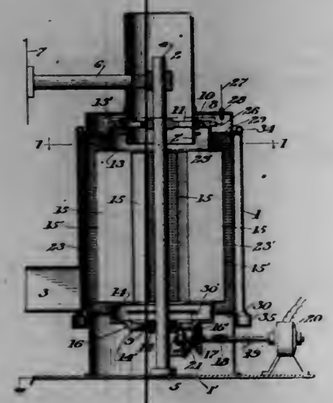
1. A mucker of the character described comprising a skip mounted for elevating and lowering movements, and

means having slidable contact with the skip, said means being capable of movement from one extreme position to



another in which said skip is caused to occupy scooping, load-retaining, and dumping positions.

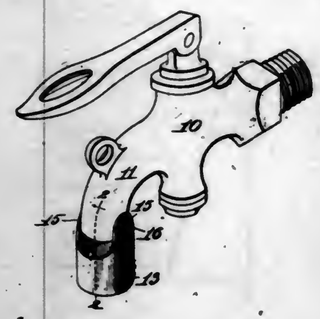
1,456,044. POSITIONED ELECTRODE. WILLIAM W. STRONG, Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 23, 1918. Serial No. 263,944. 15 Claims. (Cl. 183—7.)



1. Apparatus for the separation of suspended particles from gases, comprising means defining a passage for the gas, electrical means operative to force particles suspended in the gas across the gas stream toward the walls of the passage and movable mechanical means operative to force the said particles in the same direction.

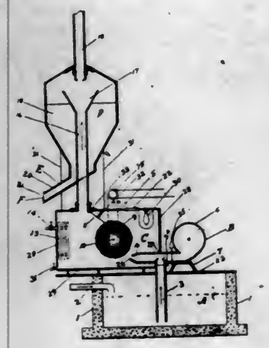
1,456,045. DRIP CUP. ARTHUR J. WILKIN, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,299. 4 Claims. (Cl. 137—111.)

2. The combination with a faucet provided on the lower portions of its nozzle with oppositely disposed indentations, of a drip-receiving cup positioned below the discharge end of said nozzle, oppositely disposed ears projecting upwardly from said drip cup and portions of



which ears are pressed inwardly to form trunnions that are journaled in the indentations in the nozzle of said faucet.

1,456,046. APPARATUS FOR AND METHOD OF TREATING SEWAGE. JOHN P. BALL, Chicago, Ill. Filed Feb. 14, 1921. Serial No. 445,038. 6 Claims. (Cl. 71—8.)



1. The herein described method which consists in atomizing a sludge, discharging the same into a closed chamber and subjecting the sludge laden current to light, heat and agitation and independently drawing off the separated portions.

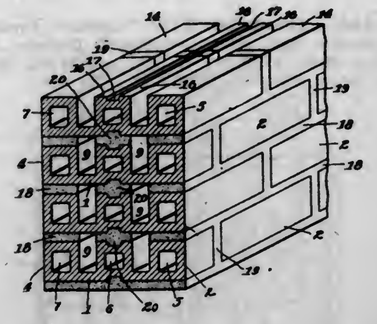
1,456,047. RECORD FOR GRAMOPHONES AND THE LIKE. PAUL BALKE and GUSTAV LEYSIEFFER, Troisdorf, Germany. Filed Nov. 18, 1921. Serial No. 516,224. 2 Claims. (Cl. 154—43.)

1. A gramophone record comprising a body of base material having a superficial coating receiving the sound groove and comprising a vehicle of gelatinized cellulose derivative and a fibrous filler.

1,456,048. BRICK. HARRY P. BARR, East Orange, N. J., assignor to Charles P. Fiske, Newton, Mass. Filed June 24, 1918. Serial No. 241,531. 6 Claims. (Cl. 72—41.)

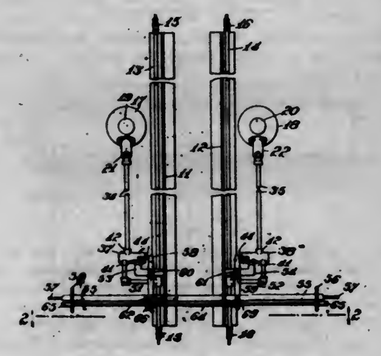
1. Channel brick of the kind described, comprising a connecting body portion having formed thereon three

vertically extending wall sections of equal length, each section being cored and producing with said body portion



two open channels the exposed faces of the outer wall sections being of standard brick size.

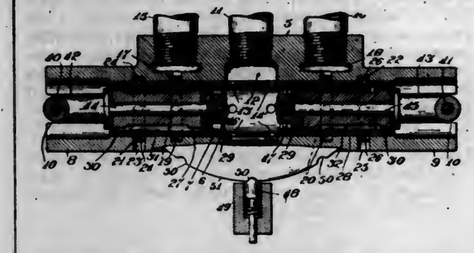
1,456,049. CONTROLLING MECHANISM FOR DUMP CARS. JAMES D. BENBOW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Jan. 20, 1919. Serial No. 272,099. 24 Claims. (Cl. 105—265.)



1. A control mechanism for compressed air operated dump cars comprising fluid pressure operated devices at opposite sides of the car for tilting the car bed in opposite directions, and a single control member adapted to be operated from either side of the car to admit fluid pressure to either of said devices to control the tilting of the bed in either direction.

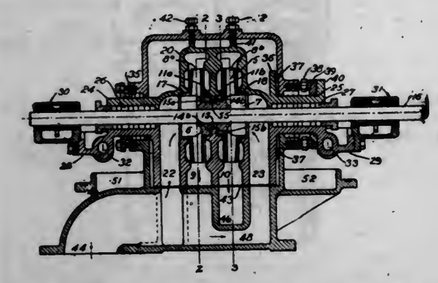
1,456,050. AIR-CONTROLLING VALVE MECHANISM. JAMES D. BENBOW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Feb. 17, 1919. Serial No. 277,633. 16 Claims. (Cl. 277—57.)

1. The combination with a supply pipe and outlet pipes, of a valve comprising a chamber having an inlet communicating with said supply pipe, and outlet ports communicating with said outlet pipes, respectively, valves in said chamber at opposite sides of said inlet and exposed to the pressure therein, said valves being separately movable against the pressure in said chamber to connect one or the other of said outlet ports with said inlet, an



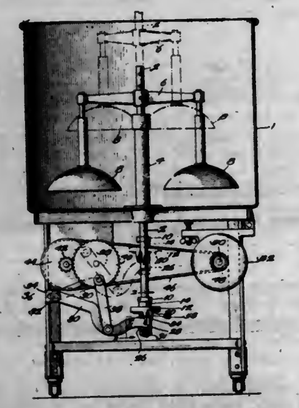
operating device, and connections movable thereby independently of each other for so moving either of said valves.

1,456,051. CENTRIFUGAL PUMP. WILLIAM DOUGLAS CARTER, East Orange, N. J. Filed May 14, 1920. Serial No. 381,455. 34 Claims. (Cl. 103—106.)



1. In a multiple service pump having impellers assembled on a shaft, a casing surrounding the impellers, shaft bearings supported by the casing on each side of the impellers, and another casing surrounding and supporting the first casing.

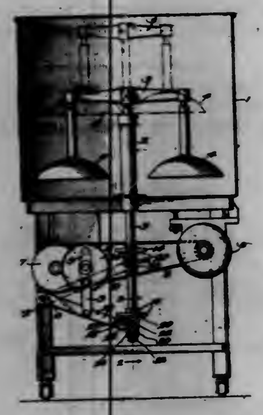
1,456,052. WASHING MACHINE. HOWARD S. CRAVER, Chicago, Ill., assignor of one-half to Henry S. Judd, Chicago, Ill. Filed Sept. 29, 1922. Serial No. 591,234. 11 Claims. (Cl. 259—144.)



1. A washing machine having a clothes receptacle, a vertical shaft provided with clothes engaging elements,

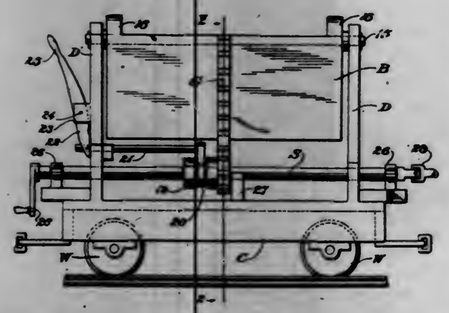
the shaft being movable vertically and angularly, a power device for supporting the shaft and reciprocating it vertically, and a clutch interposed between the shaft and the supporting power device and controlled by the variations in pressure of the shaft on said supporting power device, said clutch including an angularly movable driving element and a cooperating angularly movable driven element connected to the shaft for moving it angularly.

1,456,053. WASHING MACHINE. HOWARD S. CRAVER, Chicago, Ill., assignor of one-half to Henry S. Judd, Chicago, Ill. Filed Oct. 17, 1922. Serial No. 595,080. 3 Claims. (Cl. 259—144.)



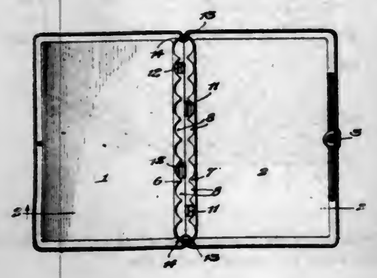
1. A washing machine having a clothes receptacle, a shaft which is vertical and angularly movable and provided with clothes engaging elements, a clutch including two friction elements, the upper one being fastened to the shaft and the lower one loosely mounted on it, and a power device for oscillating the lower friction element and simultaneously reciprocating it vertically.

1,456,054. DUMPING MINE CAR. OLIVER WINFORD CROOKS and ELMER HARRY CROOKS, Big Creek, Calif. Filed Dec. 22, 1921. Serial No. 524,186. 4 Claims. (Cl. 105—270.)



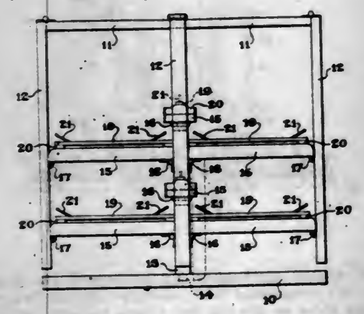
1. In combination, a dumping mine car including a movable body, mechanical means for moving the body to effect a dumping of its contents, means on the car for positively actuating the first means and mechanical means adapted to operatively connect said means with similar means of another car body to effect simultaneous actuation of the second car body.

1,456,055. CIGARETTE CASE. LEONARD DAHLGREN, Attleboro, Mass., assignor to Filikwik Company, Attleboro, Mass. Filed Feb. 21, 1921. Serial No. 446,770. 7 Claims. (Cl. 206—41.)



3. In a cigarette case, movably connected front and back members, and a holder composed of a pair of sections hinged together to receive the cigarette therebetween, each end of each section having means of substantially identical construction formed to interengage and to snap into and out of engagement with each other.

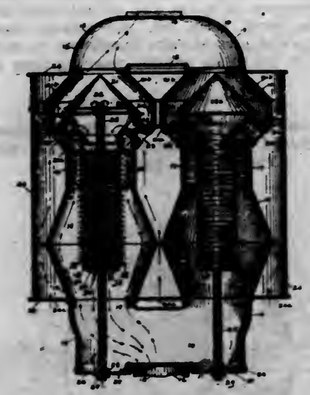
1,456,056. ROOST. DAVID J. FOSHEE, Red Level, Ala. Filed June 5, 1922. Serial No. 565,797. 2 Claims. (Cl. 119—22.)



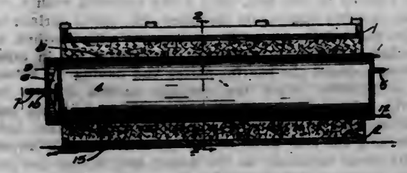
1. A roost comprising a base, a standard mounted for rotation thereon, a plurality of horizontally arranged platforms having one end hingedly secured to the standard, means supporting the opposite ends of the platforms and rotatable with the standard and a roost bar supported by each of the platforms.

1,456,057. FUEL ECONOMIZER. WILLIAM G. GRIFFIN, Washington, D. C. Filed Dec. 21, 1921. Serial No. 523,907. 25 Claims. (Cl. 110—58.)

1. The combination with the exhaust conduit of a furnace, of an expansion chamber forming a part thereof for the passage of the products of combustion, means contained within the chamber for supplying fresh air in combustion-supporting quantities to the products of combustion exiting through the conduit, said means being further adapted to initiate a return current of such mixture through the conduit to the furnace along a path axially related to the conduit.

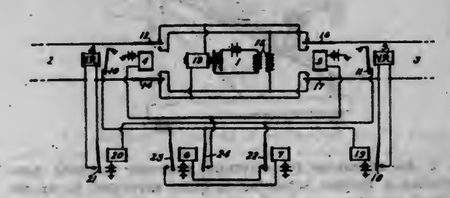


1,456,058. CORE FOR MAKING PIPES AND THE LIKE. FRANK S. HALE, Long Beach, Calif. Filed May 11, 1921. Serial No. 468,481. 3 Claims. (Cl. 26—128.)



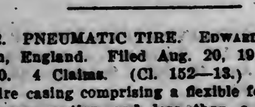
1. A core for a mold comprising a flexible casing of fabric material, an elastic air receptacle within the casing adapted to inflate the same to extend said core, and ropes extending within said casing through an open end thereof and connected to the opposite end of said casing.

1,456,059. SIGNALING SYSTEM. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1918, Serial No. 212,461. Renewed Aug. 28, 1920. Serial No. 406,731. 22 Claims. (Cl. 179—170.)



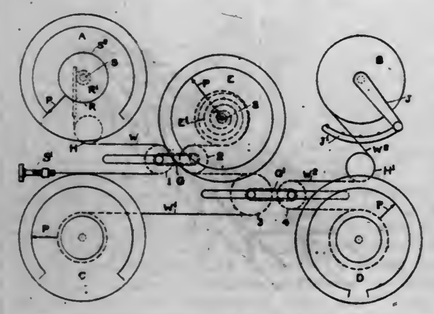
1. The combination of two lines, a repeater therebetween, a relay for each of said lines, said relays controlling the connection of said repeater to said lines, and a shunt circuit about each of said relays for rendering said relays at times inoperative, each of said shunt circuits being controlled by the other relay.

1,456,060. CONTAINER FOR CIGARETTES AND THE LIKE. GILBERT L. JOHNSTONE, Manhasset, N. Y. Filed Nov. 5, 1920. Serial No. 421,831. 8 Claims. (Cl. 206—41.)



1. A blank for a container comprising a sheet of material having scores formed therein to define an end portion of the container, and a partially detached portion located between said scores in the space defined thereby to serve as a pushing tab, such portion extending outwardly beyond one of said scores.

1,456,061. CALCULATING MACHINE. THOMPSON JOWETT, London, and CECIL EDWARD SQUIRE, Sheffield, England. Filed Dec. 9, 1918. Serial No. 265,896. 6 Claims. (Cl. 235—61.)

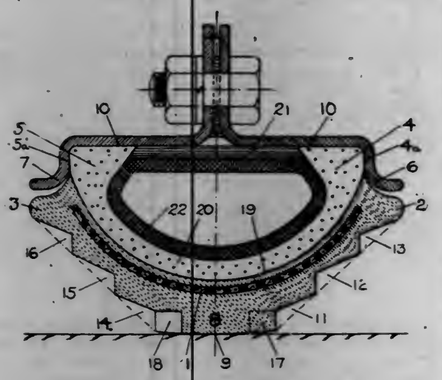


1. A calculating machine comprising a plurality of dials, a corresponding number of rotatable drums, indicators attached to and adapted to move with said drums, a pulley mounted upon a movable carriage, a flexible lead passing over said pulley and having its ends wound upon two of said drums each to each, and a second flexible lead having one end wound upon a third of said drums and having connections with said movable carriage such that rotation of said third drum tends to effect movement of said carriage and vice versa.

1,456,062. PNEUMATIC TIRE. EDWARD BRICE KILLEN, London, England. Filed Aug. 20, 1920. Serial No. 404,840. 4 Claims. (Cl. 152—13.)

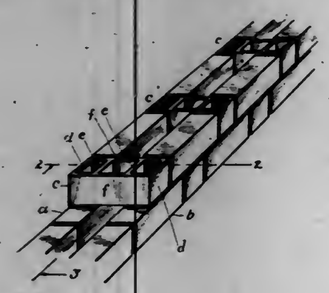
4. A tire casing comprising a flexible foundation, arcuate in cross section and less than a semi-circle and having inextensible base beads, and an outer cover on said foundation and approximately triangular in cross-section and extending on said foundation from side to side, said cover having a blunt narrow extreme apex on its center line and endless grooves spaced apart and

arranged on the portions of the tread of the cover between said blunt apex and the sides, the sides of said



grooves being angularly related when the tire is in normal condition and forming step-like annular shoulders on the tread of the tire.

1,456,063. WALL CONSTRUCTION. HARRY R. KREITZER, Seattle, Wash. Filed Feb. 14, 1921. Serial No. 444,764. 2 Claims. (Cl. 72—102.)



1. A wall consisting of two parallel courses of wall members spaced apart so as to provide a space of substantial width between the courses, and transverse bonding members connecting said courses, the ends of said bonding members being supported in said courses, said bonding members being made of hollow tile consisting of longitudinal vertical webs, transverse end webs and other transverse webs intermediate the ends, the intermediate webs being supported on the inner-edge portions of said courses, thereby leaving the air space between said courses unobstructed except by the longitudinal webs of said bonding members.

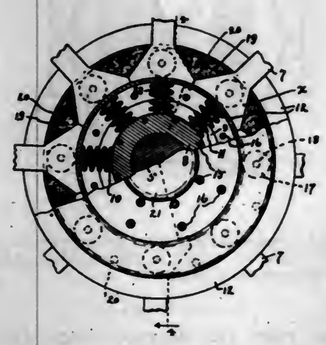
1,456,064. PROCESS AND APPARATUS FOR MAKING SULPHURIC ACID. WILLIAM F. LAMOREAUX, Isabella, Tenn. Filed Aug. 16, 1921. Serial No. 492,673. 16 Claims. (Cl. 23—1.)

12. In a process of making sulphuric acid by oxidation of sulphuric dioxide in presence of water, the method of accelerating the reaction between liquid and gaseous phase components, which consists in alternately and repeatedly dispersing the liquid phase into a gaseous phase and recollecting the same.

1,456,065. MANUFACTURE OF SULPHURIC ACID. WILLIAM F. LAMOREAUX, Isabella, Tenn. Filed May 29, 1922. Serial No. 564,454. 11 Claims. (Cl. 23—1.)

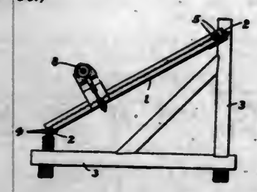
1. In a process of oxidizing sulfur dioxide to sulfur trioxide in presence of water, the method comprising dispersing the liquid phase into the gaseous phase, the amount of water present being insufficient to unite with the whole of the sulfur trioxide resulting from the oxidation.

1,456,066. RESILIENT VEHICLE WHEEL. GEORGE H. LANTZ, Omaha, Nebr. Filed Sept. 11, 1919. Serial No. 323,178. 1 Claim. (Cl. 152—45.)



The combination with an axle provided with a hub, of a pair of connected, annular bearing-plates outwardly of and secured to the hub, each being provided with a circular chamber opening on its inner side, spiral springs between the bearing-plates in engagement with the hub, an annular spoke-holder approximately of U shape in cross-section between the bearing-plates and having its bottom in engagement with the springs, spokes having inwardly divergent terminals engaging each other and engaging the bottom of the annular spoke-holder, bolts traversing the side walls of the spoke-holder and inwardly divergent terminals of the spokes and having end portions entering and normally disposed centrally of the circular chambers of the bearing-plates, spacing-blocks approximately of V-shape between and engaging the inwardly divergent terminals of the spokes, and pins traversing the sides of the annular spoke-holder and the spacing-blocks, said annular spoke-holder having bearings on the sides of the spokes outwardly of the inwardly divergent terminals thereof.

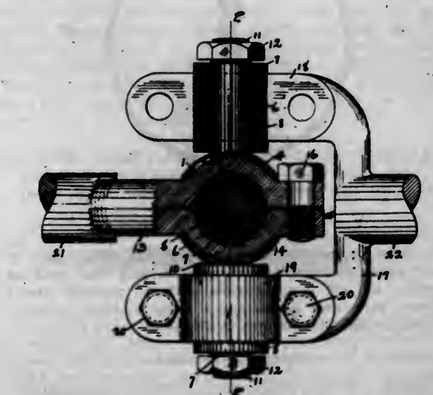
1,456,067. APPARATUS FOR SCREENING GRANULAR MATERIALS. RICHARD A. LEAHY, Bonne Terre, Mo. Filed Mar. 28, 1921. Serial No. 456,431. 4 Claims. (Cl. 83—56.)



1. An apparatus for screening granular material, comprising a flexible screening medium arranged in an inclined position and held under longitudinal tension, the side edges of said medium being free to vibrate, and means connected directly to said screening medium at a point intermediate its ends and extending transversely

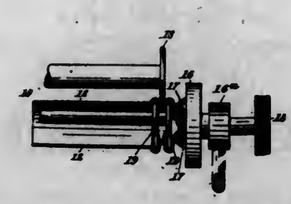
across the entire width of same for vibrating said medium upwardly and downwardly so as to impart a comparatively slow downward movement to said screening medium followed by an accelerated upward movement that is suddenly arrested, thereby causing the particles of material on said screening medium to be thrown upwardly with a force proportional to the masses of said particles.

1,456,068. KNUCKLE JOINT. HUGH C. LORD, Erie, Pa. Filed Jan. 17, 1921. Serial No. 437,747. 15 Claims. (Cl. 64—102.)



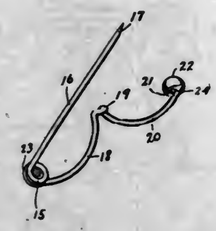
12. A joint comprising an outer sleeve; an inner sleeve; a rubber insert secured to the surfaces of said sleeves; a mounting; a pin extending through the inner sleeve and into the mounting, said inner sleeve having a tapered and serrated edge; and means on the pin for forcing the serrations into engagement with the mounting, the serrations indenting the mounting to lock the inner sleeve with the mounting.

1,456,069. METHOD OF PRODUCING CORRUGATED, EXPANSIBLE COLLAPSIBLE ELEMENTS. HARRY C. MALLORY, Bellport, N. Y., assignor, by mesne assignments, to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 23, 1920. Serial No. 368,115. 16 Claims. (Cl. 153—73.)



1. The method of making a corrugated elastic element which consists in taking a hollow cylindrical blank having a closed end, securing an inelastic disk within the closed end of said blank whereby to reinforce said closed end, and securing said blank by its reinforced end to a support, and then subjecting said blank, while upon said support, to the action of suitable dies to form corrugations or folds therein, substantially as specified.

1,456,070. SAFETY PIN. WILLIAM W. MAXEY, Venice, Calif. Filed July 21, 1922. Serial No. 576,544. 4 Claims. (Cl. 24—161.)



1. A safety pin comprising a penetrating tongue, a keeper, a coil for normally urging the tongue to disengaging position with the respect to the keeper, a hook between the keeper and coil adapted to engage the tongue when the latter is in engagement with the keeper, and portions connecting the hook with the keeper and coil, said portions being continuously curved from the hook to the keeper or coil.

1,456,071. ATTACHING DEVICE FOR NONSKID CHAINS. CHARLES MOSS, New York, N. Y. Filed June 24, 1920. Serial No. 391,388. 1 Claim. (Cl. 152—14.)

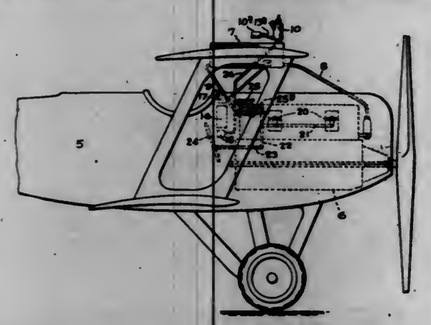


An attaching device for non-skid chains comprising a clamp composed of two plates, said plates being curved outwardly in opposite directions to complementally fit about a spoke of a wheel, the outside faces of such curved plates having straps to receive the non-skid chain, one of said plates having at one end an outwardly and radially projecting lug, said lug having a slotted flange projecting angularly therefrom and lying at substantially a tangent to the plates but being spaced from the plates, the corresponding end of the companion plate having a rounded heel engaging the adjacent face of said lug and being further provided with a curved tongue adapted to fit slidably through the slot in said flange, the convex side of said curved tongue being away from the companion plate, radially projecting flanges at the opposite ends of said plates, a hinged bolt carried by one of these flanges, the opposing flange being slotted to receive the bolt, such opposing flange having its corners turned outwardly away from the flange carrying the bolt, and a bolt engaging element confined by said outwardly turned corner potrions.

1,456,072. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES OR THE LIKE. SANFORD A. MOSS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 15, 1920. Serial No. 417,179. 6 Claims. Cl. 123—170.)

1. The combination with an aeroplane having an internal combustion engine, and a hermetically sealed liquid cooling system therefor comprising a radiator through which cooling liquid circulates and conduits connecting the radiator to the engine, of means for preventing the occurrence of abnormal operating conditions in the radiator due to high altitudes comprising valve means asso-

ciated with the system and adapted to open outwardly whenever the altitude atmospheric pressure falls be-



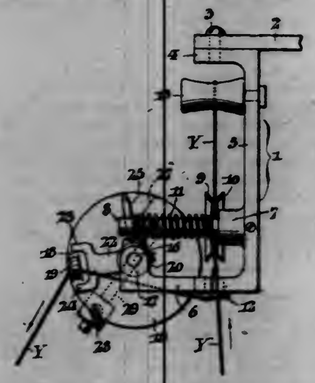
low the pressure in the radiator by more than a predetermined amount, and to open inwardly to prevent the formation at any altitude of a vacuum in the radiator.

1,456,073. PHOTOGRAPHIC-PRINTING DEVICE. ASHLEY G. OGDEN, Baltimore, Md. Filed Mar. 14, 1921. Serial No. 452,381. 17 Claims. (Cl. 95—73.)



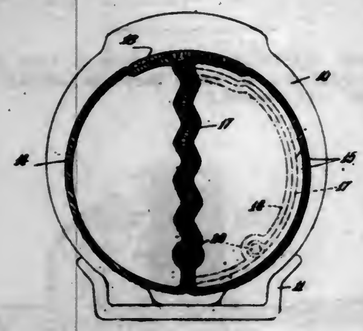
1. The combination with a mount in the form of a wooden board having stiffening edges running across its grain, of a resilient surface thereon adapted to serve as a backing for a sensitized plate.

1,456,074. YARN-TENSION DEVICE. ALBERT M. PIGNON, Norristown, Pa. Filed Sept. 27, 1921. Serial No. 508,484. 8 Claims. (Cl. 242—149.)



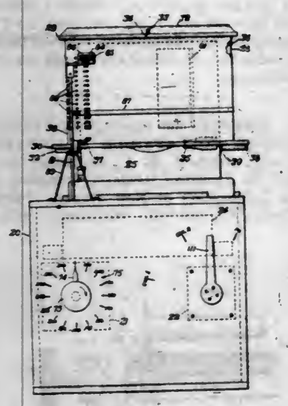
1. A yarn tension device comprising, means for applying tension to yarn while feeding the same to textile machines, means responsive to variations in drag impressed upon the yarn controlling the tensioning means to compensatively vary the tension, and means to restrain said responsive means against spasmodic actuation.

1,456,075. AUTOMATIC PUNCTURE-CLOSING DEVICE FOR PNEUMATIC TIRES. MICHELL ROSE, New York, N. Y. Filed July 27, 1922. Serial No. 577,933. 3 Claims. (Cl. 152—22.)



3. A pneumatic tire comprising a shoe, and a pair of inner tubes arranged side by side in said shoe, and an annular web of tough flexible material inserted freely between said inner tubes, and a metal annulus to which the inner edge of said web is attached.

1,456,076. MEASURING AND TESTING OF INDUCTANCES. CHARLES WILLIAM ROBBINS, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 18, 1921. Serial No. 478,692. 15 Claims. (Cl. 175—183.)



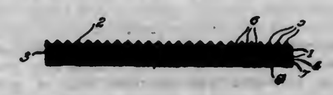
3. In an inductance measuring apparatus, the combination with a bridge circuit of a test specimen, a variable inductance, a multiple scale associated therewith, a plurality of fixed inductances, means for connecting in the circuit one or more of said fixed inductances, an index connected to said means to indicate directly upon said scale the total inductance connected in the circuit, and compensating resistances automatically cut out or into the circuit whenever said fixed inductances are cut in or out whereby the total effective resistance in the circuit will be held constant.

1,456,077. PAPER-ROLL TRACK FOR PAPER MACHINES. WILLIS H. SANBURN, Springfield, Mass. Filed Nov. 15, 1919. Serial No. 338,320½. 2 Claims. (Cl. 193—41.)



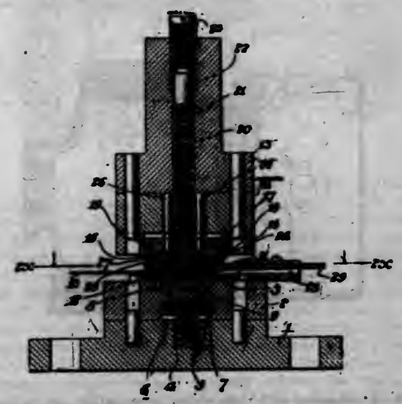
1. The combination with a paper machine including a take-up roll adapted to receive the finished product and companion take-up tracks normally spaced from the machine, of companion tracks slidable on said take-up tracks and adapted to bridge the space between said take-up tracks and machine, and means carried by the take-up tracks for elevating said shiftable tracks into horizontal alignment with the take-up tracks, so as to receive the take-up roll.

1,456,078. TUBE AND TIRE REPAIR MATERIAL. ALBERT E. STEPHENSON, Dallas, Tex. Filed Oct. 21, 1922. Serial No. 595,973. 2 Claims. (Cl. 152—26.)



1. A tire patch including alternately superposed layers of rubber and fabric, the outer layer being formed of rubber, the upper layer being formed with alternately raised and depressed surfaces, the bottom layer having applied thereto a layer of quick-cure gum containing an adhesive, and a protecting layer of fabric covering said adhesive layers.

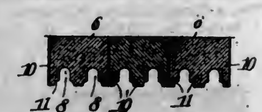
1,456,079. METHOD AND MECHANISM FOR CONTINUOUSLY PRODUCING AND SETTING RIVETS. HENRY STUBNER, Philadelphia, Pa. Filed Mar. 19, 1921. Serial No. 453,822. 8 Claims. (Cl. 78—46.)



1. The method which consists in placing an apertured device and a blank in contact, and punching a part clear out of said blank and expanding it in the aperture of said device by a continuous operation.

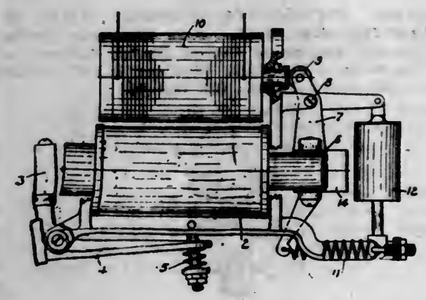
1,456,080. PAVEMENT, AND METHOD OF LAYING THE SAME. EDWARD H. TREMBS, Tampa, Fla. Filed Nov. 26, 1915. Serial No. 63,446. 8 Claims. (Cl. 94—11.)

8. A paving element comprising a body of asphaltic material having thin layers of protective material upon its opposite faces, said layers being arranged to terminate a substantial distance below the top of the body and



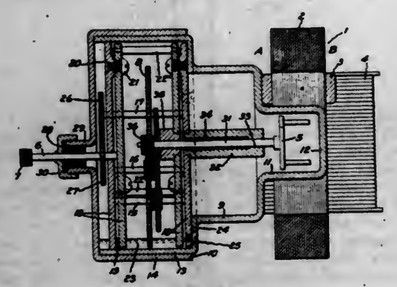
also below the wear surfaces of the adjacent pavement parts between which the body is fitted.

1,456,081. ELECTRIC REGULATOR. WILLIAM A. TURNAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed July 17, 1919. Serial No. 311,454. 13 Claims. (Cl. 171—229.)



12. In a regulator, in combination, a variable resistance element, a magnetic circuit, said circuit having a member for automatically gradually adjusting the magnetic reluctance of said circuit, said circuit having a member provided with means for operating said resistance element.

1,456,082. MOTOR DRIVE. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, a Corporation of Maine. Original application filed Sept. 1, 1920, Serial No. 407,487. Divided and this application filed Jan. 17, 1922. Serial No. 530,005. 5 Claims. (Cl. 172—36.)



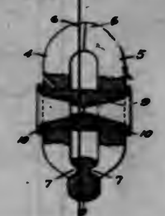
1. A motor drive comprising a motor having a stationary part nad a rotating element, a gear case enclosing the rotating element of the motor and held within the inner periphery of the stationary part of said motor, a cover for said case having an aperture, a power shaft extending through said aperture, and means supported in said case for transmitting motion from the rotating element to the power shaft.

1,456,083. INSULATING MATERIAL AND METHOD OF MAKING THE SAME. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 12, 1919. Serial No. 317,060. 15 Claims. (Cl. 154—44.)



1. The method of manufacturing composite insulating material, which comprises coating the adjacent surfaces of two liners with adhesive, and cementing a body portion of loosely bound and heterogeneously arranged fibers between said coated surfaces sundry of said fibers being of sufficient length to reach from one liner to the other to secure the liners together.

1,456,084. SUPPORT FOR OVERHEAD WIRES OF ELECTRIC RAILWAYS. HANS WESTPHAL, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 7, 1922. Serial No. 593,151. 2 Claims. (Cl. 191—43.)



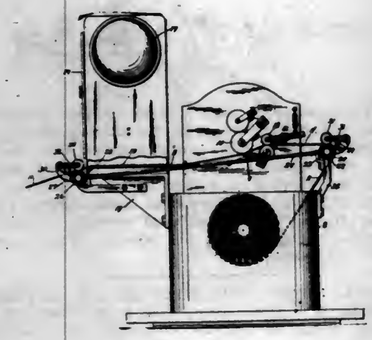
1. In a wire-supporting device, the combination of a pair of clamps which are arranged to hold a wire between them with a rivet which passes through the clamps and is turned over at its ends to unite them, said rivet having a wall which increases in thickness from the ends toward the center.

1,456,085. ELASTIC-FLUID TURBINE. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 29, 1921. Serial No. 525,666. 8 Claims. (Cl. 253—77.)



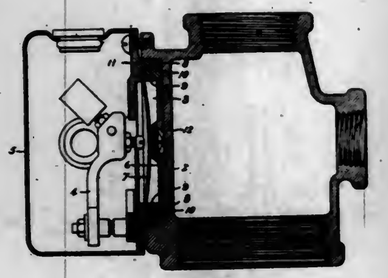
1. In an elastic fluid turbine, a carrying member and blades projecting radially therefrom, the ratio of pitch to width being substantially uniform throughout the length of the blades.

1,456,086. EXHIBITING DEVICE. RICHARD D. WYCKOFF, New York, N. Y. Filed May 16, 1919. Serial No. 297,541. 2 Claims. (Cl. 88—28.)



1. The combination with an automatic printing machine provided with strip feeding rollers, of a projector associated therewith and provided with a guideway for supporting the strip in projecting position and means operated by the strip feeding rollers for feeding the strip through said guideway, said means including drawing-out rollers for the strip located at the exit end of the guideway, a roller engaged by the strip and driven thereby and driving connections from said roller to the drawing-out rollers.

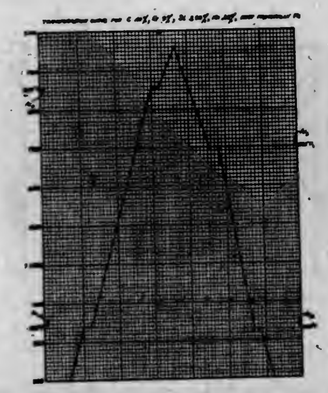
1,456,087. DIAPHRAGM SWITCH. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 11, 1919. Serial No. 310,271. 5 Claims. (Cl. 297—9.)



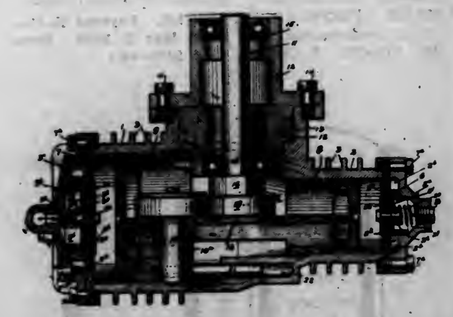
1. A pressure cell comprising a metallic cup, a buckling diaphragm secured thereto to form a leak proof joint and a cover securing the diaphragm to the cup and removable without breaking said joint.

1,456,088. HEAT-TREATED STABLE-SURFACE ALLOY STEEL. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Dec. 12, 1919. Serial No. 344,294. 7 Claims. (Cl. 75—1.)

1. An alloy steel of substantially high surface stability, having the ground mass fixed substantially solid solution by heat treatment, containing chromium about 3% to 10%, silicon about .5% to 7%, chromium and silicon together about 5% to 13%, carbon over about .05% and under 1/10 of the chromium and silicon taken together, and the principal portion of the remainder iron.



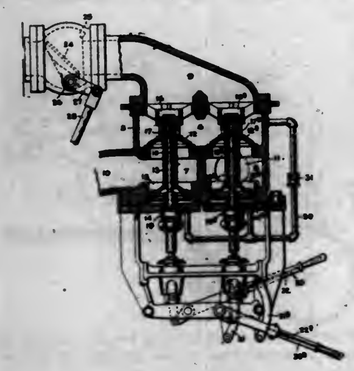
1,456,089. AIR COMPRESSOR. DEXTER C. BAKER, Oakland, Calif., assignor to Baker-Hansen Manufacturing Company, Oakland, Calif. Filed Apr. 7, 1921. Serial No. 459,220. 4 Claims. (Cl. 230—27.)



1. An air compressor, comprising a pair of co-axially arranged cylinders, a pair of rectilinear pistons connected end to end adapted to work in said cylinders and having a common driving means, said driving means including a shaft having an eccentric head presented transversely to the axis of the pistons, and a rocking yoke pivotally mounted to one of the pistons and connected to the eccentric head whereby the eccentric rotation of the eccentric head may be converted into a reciprocating movement of the pistons, said pivotal mounting for the rocking yoke on one of the pistons comprising a transverse pin confined within the walls of the piston, and a longitudinal guide rod for the pistons having one end transversely anchored in the end of said pin and with its opposite end received in a guiding opening in the walls of the compressor crank case.

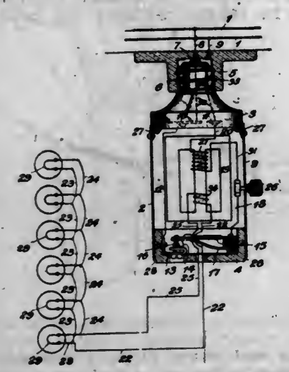
1,456,090. VALVE MECHANISM. FRANK S. BENNETT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 14, 1920. Serial No. 358,733. 4 Claims. (Cl. 137—139.)

1. In a valve structure, the combination of a casing having a seat, a main valve adapted to engage said seat, a cylinder, a balancing piston for the main valve, which piston is located in said cylinder, conduit means connecting the admission side of the valve casing to



said cylinder, a pilot valve in said conduit means, and additional conduit means independent of the pilot valve connecting the valve casing on the admission side of the main valve to said cylinder.

1,456,091. ELECTRICAL APPARATUS FOR ILLUMINATING AND DECORATING CHRISTMAS TREES AND SIMILAR USES. JAMES H. BETTS, Brightwaters, N. Y. Filed Feb. 12, 1919. Serial No. 276,476. 2 Claims. (Cl. 177—347.)

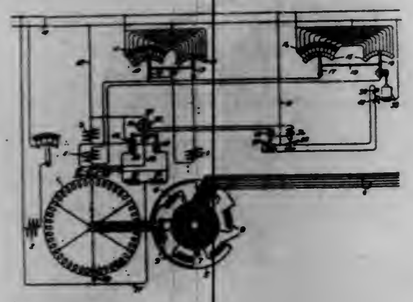


1. A low voltage multiple lamp decorative lighting system for use with alternating current, comprising a plug adapted for insertion in a standard lamp socket in a lighting circuit, said plug having the usual contacts, a casing carried by said plug, a transformer having a line voltage primary and a low voltage secondary winding within said casing, said primary winding being connected to the plug contacts, a pair of leads connected to said secondary winding and extending outside said casing, and a plurality of low voltage miniature decorative lamps connected in parallel across said leads.

1,456,092. DYNAMO-ELECTRIC MACHINE. JOSEPH L. BURNHAM, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,780. 7 Claims. (Cl. 171—228.)

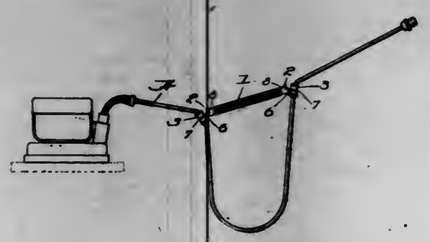
5. In a dynamo-electric machine, an armature winding provided with a commutator, an anti-sparking wind-

ing connected in series with said armature winding, an auxiliary anti-sparking winding, and means for controlling the effect of said auxiliary winding comprising a pair of mechanically opposed electromagnets, means



affecting these electromagnets in accordance with the difference of voltage from heel to toe of said brushes, and means affecting one of these electromagnets in accordance with the current flow in said armature.

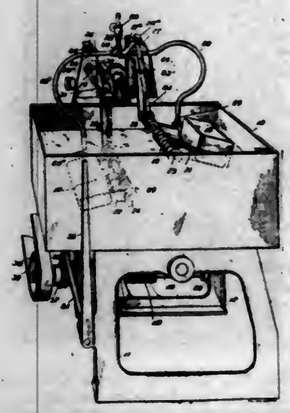
1,456,093. SLACK-TAKE-UP DEVICE FOR ELECTRIC-IRON CORDS. AXEL CARLSON, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1920. Serial No. 428,850. 2 Claims. (Cl. 24—115.)



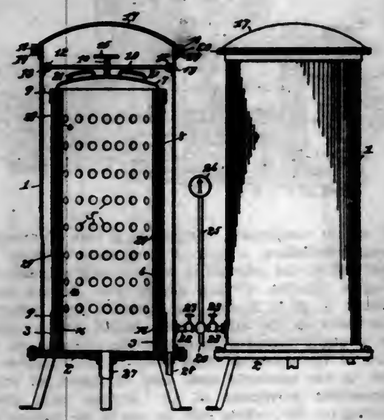
1. In a cord take-up device, a cord grip comprising two members having each a cord seat parted at a plane longitudinal with respect to said seat, and a spring clip clasping the two member for holding them together gripping the cord, said clip having its clasping wings extended through the parting plane of the two grip members at opposite sides of said cord seat, and beng open at one side for lateral entry upon and disengagement from the two grip members.

1,456,094. CAN-TESTING APPARATUS. GEORGE W. CHALMERS, Summit, Ill., assignor to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey. Filed May 29, 1919. Serial No. 300,618. 20 Claims. (Cl. 73—51.)

1. A can testing apparatus comprising a tank adapted to contain a quantity of water; can supporting devices adapted to alternately submerge cans in the water, means for operating said devices whereby one can enters the water at the time another emerges therefrom, and means for introducing air into said cans under pressure comprising a valve arranged so as to be constantly above the water level, and mechanism connecting said valve with the operating means of the can supporting devices whereby said valve is moved automatically to its open and closed positions.

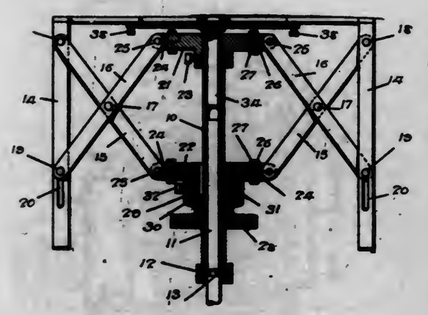


1,456,095. PRESSURE OIL FILTER. FRANCIS E. COLLINS, Conshohocken, Pa. Filed May 3, 1920. Serial No. 378,450. 2 Claims. (Cl. 210—44.)



1. In a filter of the character described, a casing, a base, a circular hub formed with said base and projecting into the casing, a tube having its lower end threaded into said hub, said tube being perforated, ribs arranged in spiral form around the exterior of the tube, a filtering member adapted to fit over said ribs and be thereby spaced from the tube, a removable clamping bar located within the casing, a clamp screw threaded through said bar and bearing upon the top of the filtering member, and a cover adapted to be secured oil tight upon the casing.

1,456,096. BOX FORM OR MANDREL. MOSES B. DISKIN, New York, N. Y. Filed Apr. 28, 1922. Serial No. 557,148. 13 Claims. (Cl. 93—59.)



1. An adjustable box form comprising side bars disposed around the axis of the form and having edges extending outwardly away from said axis to define the outline of the form, and adjustable means supporting said bars for adjustment toward and away from said axis to adjust the form for boxes of different sizes having the same shape.

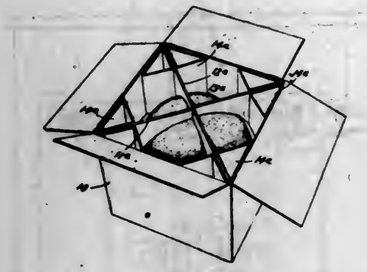
1,456,097. WEATHER STRIP. SILAS DIXON and ALBERT S. BALDRIDGE, Oklahoma, Okla. Filed July 16, 1918. Serial No. 245,240. 1 Claim. (Cl. 20—69.)



A weather strip of flexible metal consisting of a first and a second wall, said walls being at substantially a right angle to each other, substantially parallel walls inclined with respect to and extending from the side edges of said walls, and a flange extending outwardly from one of said parallel walls in a plane substantially parallel to the first wall and intersecting the second wall.

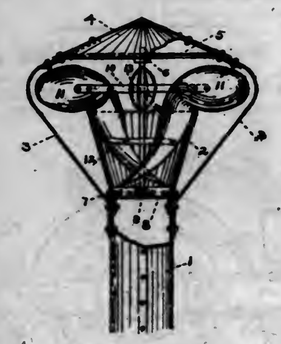
1,456,098. PACKING CASE. LEROY C. DOANE, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,262. 2 Claims. (Cl. 206—65.)

1. In a packing device, the combination of an angular container, partition members extending from corner to corner of said container and members each having a plurality of faces registering with those of said container



at one of said corners and shaped to receive an end portion of and to support one of said partition members.

1,456,099. DRAFT DEVICE FOR CHIMNEYS. LOUIS DUFEK, Tacoma, Wash. Filed Apr. 4, 1922. Serial No. 549,497. 3 Claims. (Cl. 98—2.)

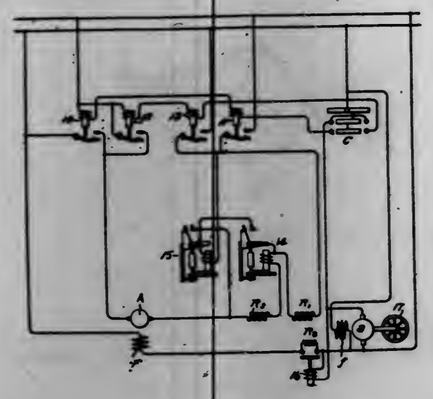


1. A device of the class described, comprising a body, a vertical shaft pivoted in supports therefor, a spider fixedly connected with the shaft and rotatable above the body, a member at the outer terminal of each arm of the spider adapted to engage air currents, a pair of said members, oppositely disposed, each having a downwardly extending reversely curved blade, and means for mounting said device to a chimney, whereby the lower terminals of said blades will be located adjacent the outlet thereof.

1,456,100. TIME-ELEMENT CIRCUIT CONTROLLER. JOHN EATON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,730. 3 Claims. (Cl. 175—320.)

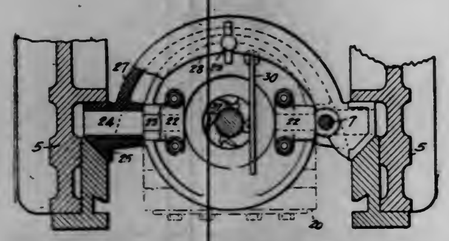
1. A time element device comprising a circuit controller, an electric motor the rotating element of which has a relatively large inertia controlled by said controller, an electromagnetic switch, and connections between the said motor, the winding of said switch and the said controller, whereby the switch winding and motor are simultaneously operatively energised responsive to

the operation of the controller, and the switch is maintained energized responsively to the generated voltage of



the motor when the motor and the switch winding are disconnected from the source of supply by the subsequent operation of the controller.

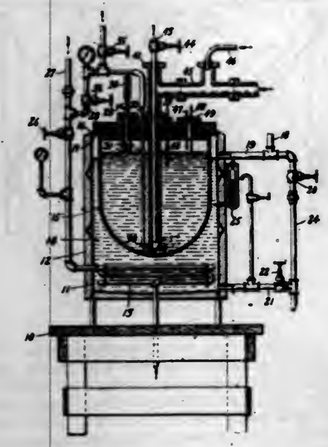
1,456,101. TURNING AND THREADING MACHINE. JAMES A. EDEN, Jr., Springfield, Mass., assignor to Walter H. Foster, New York, N. Y. Filed Oct. 1, 1920. Serial No. 414,024. 5 Claims. (Cl. 10—87.)



1. A machine of the class described having a blank holder and a cutter head and means for feeding one of said parts toward and away from the other, and a holder in which said cutter head is pivotally mounted on a line transverse to its axis so that it can be turned from its working position to a more convenient position for easily, quickly and accurately adjusting or setting tools in said head.

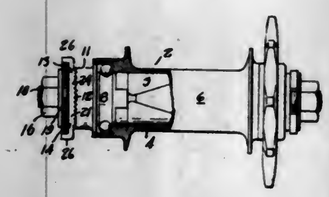
1,456,102. CHEMICAL APPARATUS. BEN BAKER FOOTE, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,210. 2 Claims. (Cl. 23—3.)

1. A chemical precipitation apparatus comprising a kettle, conduits leading thereinto for reagents which will react to produce a precipitate, a delivery tube extending upwardly from the lower portion of said kettle and having an open end aperture disposed above the bottom of said kettle, and another tube extending through said delivery tube into said kettle and having an end



aperture smaller in diameter than said delivery tube and located adjacent to the lower end thereof.

1,456,103. MEANS FOR HOLDING THE STATIONARY ELEMENT OF A COASTER BRAKE. CHARLES GOODCHILD, Oakland, Calif., assignor of one-half to John J. McGinley, Oakland, Calif. Filed Apr. 7, 1921. Serial No. 459,341. 3 Claims. (Cl. 192—6.)

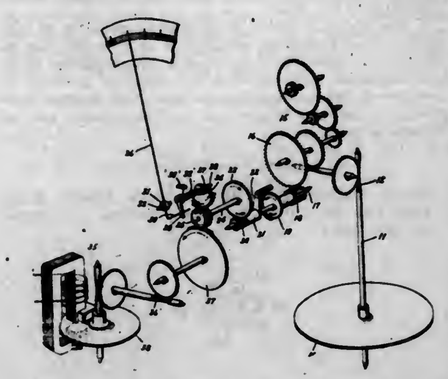


1. In a device of the class described, a member adapted to be fixed to the stationary brake element of a coaster brake and arranged to be pressed against the inner face of the tips of one of the rear fork legs of the vehicle frame, and a pair of oppositely disposed outwardly extending arms provided on said member adapted to fit over and engage the outer edges of said tips.

1,456,104. DEMAND METER. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Oct. 6, 1919. Serial No. 328,732. 2 Claims. (Cl. 171—34.)

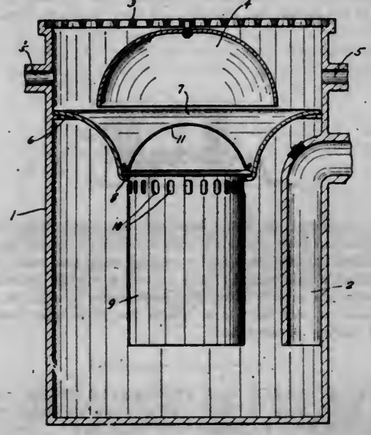
2. In a demand meter, a maximum indicator, a driver for said indicator, a shaft for said driver, a gear fixed on said shaft, a spring urging said gear in a direction to move the indicator driver in a forward direction, a meter

armature, means for permitting forward movement of said driver only as said armature rotates, a mutilated



gear for periodically returning the driver and its gear to an initial position, and a constant speed mechanism driving said mutilated gear.

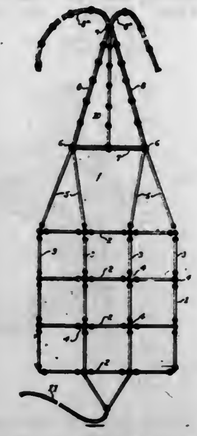
1,456,105. GARAGE DRAIN. JOHN HEINKEL, St. Louis, Mo. Filed Jan. 13, 1922. Serial No. 528,989. 2 Claims. (Cl. 182—10.)



1. A device of the class described, comprising an intake casing, provided with means for connection with a main drain; a grating for said intake, removably supported therein; a bell-shaped spreader supported just beneath said grating; a chute supported beneath said spreader, and possessing a diameter greater than that of the spreader; and a receptacle supported in the lower end of said chute, provided with a series of openings near the top thereof.

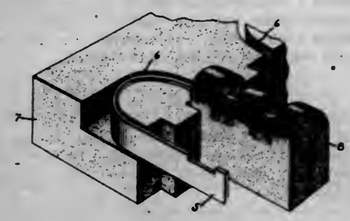
1,456,106. FIRE-RESCUE DEVICE. HARRIETTE E. HODGSON, New York, N. Y. Filed June 16, 1921. Serial No. 477,874. 3 Claims. (Cl. 227—11.)

1. A fire-rescue device comprising a net to which a number of persons may cling, said net comprising three or more vertical members spaced apart and of sufficient flexibility to permit rolling, and a plurality of horizontal members spaced apart and intersecting said vertical mem-



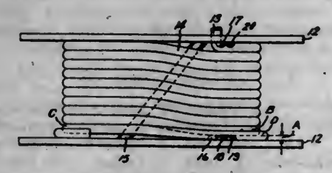
bers, and means for fixedly connecting said vertical and horizontal members at their intersections; and means connected to said net by which it may be hoisted.

1,456,107. ELECTRIC RESISTANCE FURNACE. CARL L. IPSEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 28, 1921. Serial No. 473,226. 7 Claims. (Cl. 204—64.)



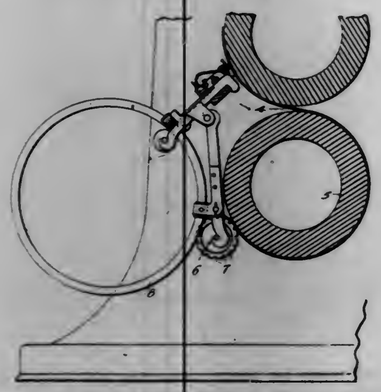
1. An electric resistance furnace comprising a furnace wall, flat metal strips mounted in said wall, the longer transverse axis of said strips extending vertically, refractory insulators mounted on said strips abutting said wall, and resistance heaters mounted on said insulators.

1,456,108. COIL AND SPOOL CONSTRUCTION. SVEND E. JOHANNESEN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 6, 1920. Serial No. 356,583. 8 Claims. (Cl. 175—21.)



5. In a coil, a spool body, a compound conductor of circular shape formed of two electrically independent conductors mechanically united wound thereon, flanges for said spool body, and projections carried on those surfaces of said flanges which are adjacent the turns of wire, for supporting the end turns.

1,456,109. RUBBER-TIRE-FORMING ROLLER. ROBERT MCCLENATHEN, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Filed Oct. 10, 1919. Serial No. 329,858. 2 Claims. (Cl. 154—9.)



1. In a device of the character described, the combination of a rotary rubber-sheeting drum, a revolvable annular wheel rim and supporting means, and a transfer roller interposed between and contacting with both the sheeting drum and the wheel rim, said transfer roller having a gum-retaining affinity greater than the rubber-sheeting drum but less than the wheel rim, whereby sheeted rubber stock is transferred from the drum to the wheel rim when the former is rotated.

1,456,110. SEAL FOR ELECTRIC DEVICES. GEORGE M. J. MACKAY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 21, 1921. Serial No. 438,899. 6 Claims. (Cl. 173—311.)



6. A seal for electric devices comprising the combination of a core of nickel-iron alloy having a lower coefficient of expansion than lead glass and provided with a coating of copper, a layer of lead glass surrounding said core and a shell of steel having the inner surface thereof coated with a flux, compressively surrounding said glass layer, the contiguous surfaces of members adhering to each other in a gas-tight condition.

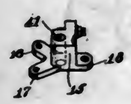
1,456,111. CLAY PRODUCT AND PROCESS OF PREPARING SAME. EDWARD GOODRICH ACHESON, New York, N. Y. Filed Oct. 5, 1920, Serial No. 414,914. Renewed Mar. 15, 1923. 2 Claims. (Cl. 252.)

1. In a process of treating clay bearing materials, the steps comprising subjecting the clay particles, freed from grit, to attrition in presence of a deflocculating agent whereby a portion of the same is transformed into a colloidal state, and then precipitating the colloidal particles in presence of the residual fine material and collecting the product.

1,456,112. REFLOCCULATED PRODUCT AND PROCESS OF PREPARING SAME. EDWARD G. ACHESON, New York, N. Y. Filed Nov. 25, 1921. Serial No. 517,824. 3 Claims. (Cl. 252.)

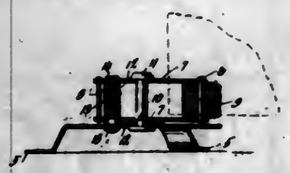
1. The herein described novel product prepared by subjecting a solid material susceptible of deflocculation to attrition in presence of an organic deflocculating agent and thereafter re-flocculating the colloidal material in presence of the residual fine material, said product comprising an intimate mixture of non-deflocculated and re-flocculated particles.

1,456,113. MAGNETO. BUTLER AMES, Lowell, Mass. Filed Feb. 10, 1919. Serial No. 276,005. 3 Claims. (Cl. 200—30.)



1. A magneto comprising a rotor, a pair of switch members, a disk secured to the end of the rotor transversely of the axis of the rotor for supporting one of said switch members, and a lug disposed in the central region of said disk for supporting the other of said switch members, said lug having a plurality of arms extending outwardly in divergent directions for securing the lugs to said disk.

1,456,114. COMBINED DOOR STOP AND HOLDER. WALTER C. BEACHAM, Clayton, Mo. Filed Nov. 25, 1921. Serial No. 517,671. 2 Claims. (Cl. 292—216.)



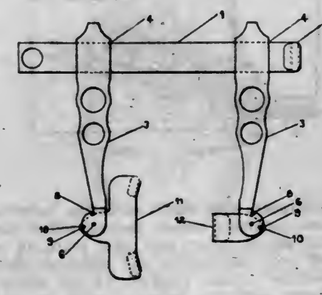
1. A device of the character described including an upstanding base provided with recesses, a frame pivotally mounted on said base and equipped with abutment rollers, a cylinder mounted in said frame, a spring pressed ball mounted in said cylinder and engageable in any one of the recesses of said base, and means to adjust the tension of said spring pressed ball.

1,456,115. PATCH FOR PNEUMATIC TIRES. JULIUS I. BERG, Berg, N. Dak. Filed June 13, 1922. Serial No. 568,025. 2 Claims. (Cl. 152—26.)



1. A detachable patch for wheel casings comprising a plate curved in conformity with the contour of the outer surface of the casing and provided with a lip along its entire length adapted to grip the wheel rim, a pair of flat-headed screws with scored ends, rubber gaskets between said heads and the inner surface of the casing, and nuts for drawing said plate and screws firmly together squeezing the casing between them, apertures being provided for the screws in said plate.

1,456,116. SURGICAL RETRACTOR. ALFRED N. BESSESEN, Sr., Minneapolis, Minn. Filed Aug. 8, 1921. Serial No. 490,666. 2 Claims. (Cl. 128—20.)



1. A device of the character described, comprising a longitudinal handle member, a pair of depending arms removably positioned upon said handle, a pivotally mounted hook upon the lower end of each depending arm, and an integral hook upon one end of the handle member.

1,456,117. VEHICLE SPRING. JOHN BILAN, Flint, Mich. Filed Oct. 13, 1922. Serial No. 594,321. 1 Claim. (Cl. 267—27.)

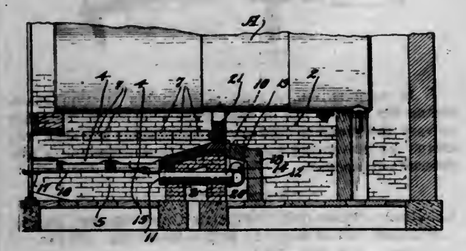


In vehicle springs, the combination with a vehicle axle and chassis bar, of a spring member centrally supported upon said axle and including separate leaf sections, the opposite ends of each of the leaf sections having eyes formed therein, and a depending hood member carried by said chassis bar and engaging over said spring member, the side walls of said hood having suitably spaced perforations therein for alinement with the eyes of the leaf sections of the spring whereby securing means are received therethrough for rigidly securing said hood member to the leaf sections of the spring.

1,456,118. DETACHABLE FASTENER. CHARLES FRANCIS STANHOPE BILBROUGH, Burnham-on-Crouch, England. Filed May 10, 1920. Serial No. 380,851. 3 Claims. (Cl. 24—106.)

1. A detachable fastener of the class described consisting of a body wire bent to form a closed loop and the leg portions extending from the loop being disposed parallel, one of the same being provided with a keeper eye, said leg members both terminating in outwardly extending semi-circular portions, one of said semi-circular portions terminating in a penetrating point and the other of said portions terminating in a holding finger provided with a keeper recess.

1,456,119. STEAM-BOILER FURNACE. JOHN J. BRIDGEFORD, Philadelphia, Pa. Filed June 1, 1921. Serial No. 474,116. 2 Claims. Cl. 110—75.)



1. In a furnace having side walls, a bridge wall and grate in front of the bridge wall, said bridge wall including a forward extension inclining upwardly from the level of the grate and forming a deflecting surface for directing the gases of combustion toward the boiler, a wall on top of said bridge wall extending upwardly into close proximity to the crown sheet of the boiler and providing a narrow uniform passage therebeneath toward which the deflecting surface aforesaid directs products of combustion, a wall rising from the floor of the combustion chamber in the rear of and spaced away from the bridge wall connecting at its top with the latter to form a super-heating chamber, an air conduit extending from the ash pit through the bridge wall into the super-heating chamber and having lateral branches therein, and a flue extending longitudinally of each side wall above the grate and communicating at regularly spaced intervals with the space above the same, said flue joining the lateral branches aforesaid.

1,456,120. MAGNET FRAME. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,212. 3 Claims. (Cl. 171—252.)

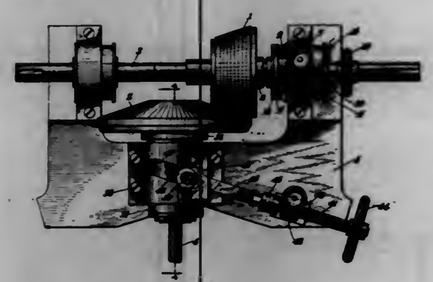
1. The method of forming an electric motor or generator frame comprising bending strips of metal stock to the

form of the field frame in a circumferential direction, welding said strips together at a joint at right angles to



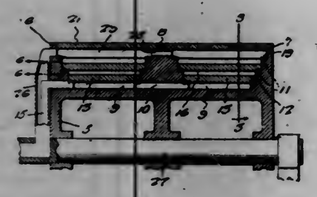
the axis of the frame, and internally boring said frame to size and true the surfaces.

1,456,121. ADJUSTING MECHANISM FOR FRICTION GEARS. WILLIS S. CHANDELL, Elsmere, N. Y., assignor to Albany Paper Mill Machinery Company, Inc., Albany, N. Y., a Corporation of New York. Filed July 10, 1922. Serial No. 573,903. 10 Claims. (Cl. 74—26.)



1. In combination, a pair of engaging friction gears, means for moving one of said gears relative to the other to vary the pressure between their engaging surfaces, and means for preventing said pressure from exceeding a predetermined amount.

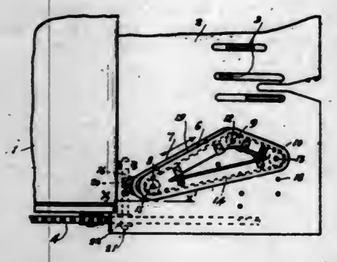
1,456,122. TURBINE. WILLIAM JOHN EDNEY, Sutton, England. Filed Sept. 1, 1922. Serial No. 585,781. 5 Claims. (Cl. 253—79.)



1. A turbine comprising a drum, a band spiraled around the drum to form a continuous duct of several convolutions, means closing the duct at the sides, an inlet chamber formed conjointly by the band and drum structure at the inner end of the duct, an outlet chamber formed conjointly by the band and drum structure at the outer end of the duct and inlet and outlet conduits connected with said chambers.

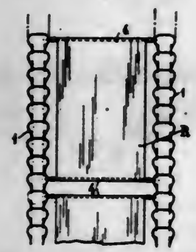
1,456,123. ATTACHMENT TO BINDERS. THOMAS DURRANT, Harptree, Saskatchewan, Canada. Filed July 1, 1919, Serial No. 307,960. Renewed Mar. 23, 1923. 1 Claim. (Cl. 56—470.)

An attachment for binders comprising a worm shaft journalled to the underside of the binder deck and equipped at one end with a sprocket meshing with a chain forming part of the binder mechanism, a pivot shaft passing through the deck and equipped at its lower end with a worm wheel meshing with said worm shaft, a swinging conveyor frame comprising a pair of spaced upper and lower triangular shaped plates perforated at one corner to receive the upper end of the pivot



shaft therethrough, stud shafts extending between said plates at the remaining corners thereof, rollers mounted on said stud shafts and on said pivot shaft, an endless belt trained over said rollers, and releasable fastening means insertable through apertures in said binder deck and engageable with the conveyor frame to hold the latter in any adjusted position to which it may be swung on the pivot shaft.

1,456,124. APPARATUS FOR MOVABLE PUBLICITY. HENRI FRANÇOIS ETIENNE SYLVAIN DUSSERIS, Paris, France. Filed May 2, 1922. Serial No. 558,024. 2 Claims. (Cl. 40—28.)



1. In apparatus of the class described, a plurality of endless chains, cross members between the chains to act as supporting means for advertisements, perforated projections on the extremities of said cross members, and loops having hooked ends to engage the one end into one of said perforations and the other into a link of one of the chains.

1,456,125. INTERNAL-COMBUSTION ENGINE. HERMAN JOSEPH FLEDDERMAN, Tulsa, Okla. Filed Aug. 25, 1920. Serial No. 406,002. 2 Claims. (Cl. 74—85.)

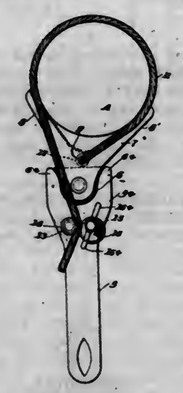
1. An internal combustion engine comprising a cylinder, a piston therein, a rod rigidly secured to said piston, the lower end of said cylinder being provided with means providing a gas tight connection between the lower end of the cylinder and said rod, a cross head in the form of an inverted cup rigidly secured to the lower

end of said rod and gradually and uniformly decreased in diameter toward its upper end to form an oil baffle, a



tubular guide depending from the lower end of said cylinder and receiving said cross head, and a connecting rod secured to said cross head.

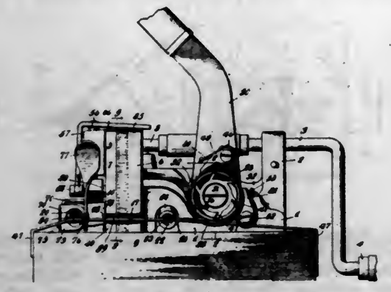
1,456,126. CAP WRENCH. GEORGE B. FRIDAY, Pittsburgh, Pa. Filed June 5, 1922. Serial No. 566,109. 4 Claims. (Cl. 81—3.1.)



1. A wrench comprising a handle, a jaw pivotally supported at one end of the handle, a flexible clamping member secured at one end to the jaw, means on the handle for limiting the pivotal movement of the jaw relatively to the handle, a post on the handle, and an eccentric member pivotally mounted on the handle adjacent the post, said post and eccentric member providing an adjustable clamp for said flexible clamping member.

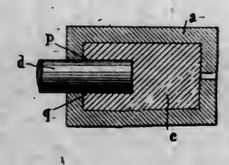
1,456,127. WIRE TENSIONING AND TWISTING MACHINE. ALEC J. GERARD and PARVIN WRIGHT, Chicago, Ill. Filed Mar. 7, 1922. Serial No. 541,777. 5 Claims. (Cl. 140—93.)

1. In a wire tying machine the combination of a frame provided with a plurality of wire receiving slots; twisting means comprising a slotted post and rotatable slotted means carried by said frame adapted to twist the wire; means adapted to insure the alinement of the slots of said twisting means with the slots of said frame at the completion of the twisting operation; and means



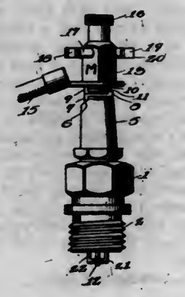
movable longitudinally of said post adapted to positively disengage the twisted wire from said post at the end of the twisting operation, substantially as described.

1,456,128. MANUFACTURE OF EXTRUDED METAL SECTIONS. MARCEL ADOLPHE HARDY, Hennebont, France. Filed June 14, 1921. Serial No. 477,451. 2 Claims. (Cl. 207—10.)



1. A method of manufacturing extruded metal sections, comprising exerting pressure on a mass of metal to be worked, said pressure being applied on an area whose diameter is substantially less than that of a container in which the metal is placed; whereby a heat insulating layer of said metal is formed between the interior surface of the container and a means for exerting said pressure.

1,456,129. SPARK PLUG. WILTON F. JENKINS, Richmond, Va. Filed June 23, 1920. Serial No. 391,112. 8 Claims. (Cl. 123—169.)



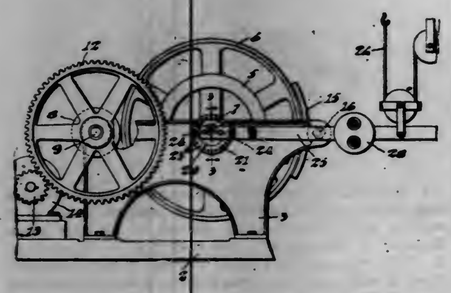
1. A binding screw for spark plugs, etc., with noncircular portions for scraping a clean contact seat on a terminal plate, when screwing it into place.

1,456,130. BELT BUCKLE. EMIL L. JOHNSON and OLOF LUNDSTEN, Attleboro, Mass. Filed Feb. 15, 1922. Serial No. 536,666. 2 Claims. (Cl. 24—78.)



1. A separable belt buckle comprising a body having a front plate with rearwardly turned edge walls said walls being provided with inwardly-turned flanges having elongated openings therethrough, means in said body for binding one end of the belt in adjusted position therein, and a separate bail member to which the opposite end of the belt is attached and means for engaging said flange openings by which its end of the belt may be releasably connected to the buckle body.

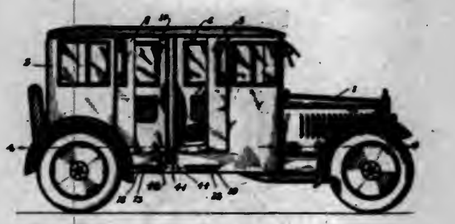
1,456,131. HOIST. DAVID PERCY KARCHER, Somerville, Mass. Filed Dec. 21, 1920. Serial No. 432,174. 1 Claim. (Cl. 254—186.)



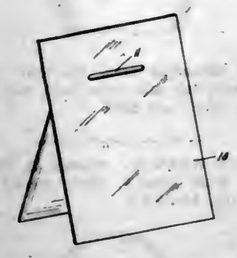
A hoisting mechanism of the character described comprising, in combination, a hoisting drum, a wheel fast with said drum, a friction roll mounted to engage the periphery of said wheel to drive said wheel and drum, a shaft supporting said roll, bearings supporting said shaft at opposite sides of the point of engagement of said roll with said wheel, a brake shoe mounted to engage the periphery of said wheel at a point remote from the engagement therewith of said roll, a relatively stationary shaft on which said drum and wheel are rotatably mounted, two eccentrics secured to said stationary shaft at opposite sides of said drum and supporting said shaft, two additional eccentrics within which, respectively, the first eccentrics are mounted, a frame in which said additional eccentrics are supported for angular adjustment, means for securing said additional eccentrics in various positions of angular adjustment, and an operating lever secured to said shaft to rock said shaft and the eccentrics secured thereto relatively to the second pair of eccentrics, whereby said rocking movement will effect a bodily transfer of said drum and wheel toward or from said roll and brake.

1,456,132. COMBINED DOOR AND STEP STRUCTURE. MISERE KHAN, Cincinnati, Ohio. Filed June 10, 1922. Serial No. 567,339. 8 Claims. (Cl. 280—166.)

5. In a conveyance having operating mechanism of the class described, a pivotally mounted curved arm having a jointed handle adapted to be pushed inwardly or pulled outwardly to operate said mechanism and when in outward position to drop down out of the way against the body of the car.



1,456,133. COMBINED ADVERTISING DEVICE AND TEMPORARY SAVINGS BANK. RICHARD D. KNIGHT, Providence, R. I.; Grace P. Knight executrix of said Richard D. Knight, deceased. Filed Apr. 28, 1920. Serial No. 377,292. 4 Claims. (Cl. 229—8.5.)



1. A combined advertising device and savings bank comprising a front display plate having a coin-receiving slot therethrough, and a coin-retaining envelop having two end flaps extending in opposite directions and secured to the back of said plate on opposite sides of said slot to receive coins passed through the slot into its mouth which is thus held open.

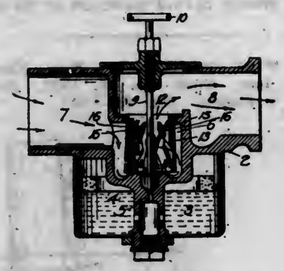
1,456,134. ATTACHMENT FOR CANDLESTICKS AND CANDLEHOLDERS. EVA JOSEPHINE LAKE, Greensburg, Pa. Filed Apr. 29, 1922. Serial No. 557,308. 1 Claim. (Cl. 67—23.)



An attachment of the class described including a stiffening element provided with a body portion having a centrally located opening and a flange upstanding from its edge, a skirt supported on the upstanding flange

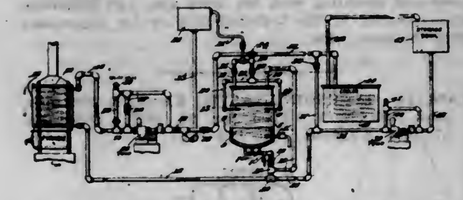
of the stiffening element, and a bracing element encircling the lower edge of the skirt in the manner and for the purpose specified.

1,456,135. FUEL MIXER. KNUT F. LIDHOLM and ADOLPH E. HEDWALL, Denver, Colo. Filed Aug. 16, 1920. Serial No. 403,702. 3 Claims. (Cl. 48—180.)



1. A fuel mixer for internal combustion engines comprising an open-ended duct having a plurality of spirally twisted blades extending convergingly inwardly from its wall.

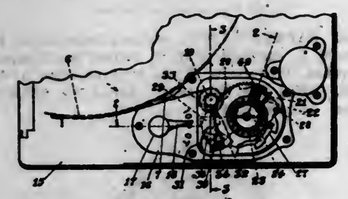
1,456,136. APPARATUS FOR HEATING AND COOLING. JOHN W. F. MACDONALD, Brighton, Mass., assignor to The Merrill Process Company, a Corporation of Massachusetts. Filed Dec. 5, 1918. Serial No. 265,386. 3 Claims. (Cl. 257—10.)



1. Apparatus for subjecting material to different temperatures comprising a container for the material having a jacket through which liquid may be circulated, two systems of conduits each having a common connection to the inlet and the outlet of said jacket, pumps operable respectively to circulate liquid through the respective conduit system, a heater for supplying heat to the liquid in one of said conduit systems, means for cooling the liquid in the other conduit system and means operable selectively to establish communication between either of said conduit systems and said jacket and simultaneously to cut off communication of the other system with said jacket whereby in shifting from one circulating system to the other the liquid contained in the jacket will be displaced and circulated with the liquid of the system in which communication with the jacket is established.

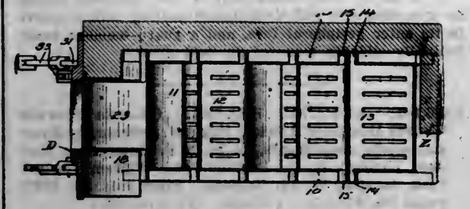
1,456,137. CAMERA-SHUTTER-OPERATING MECHANISM. GLENN J. MACDOWELL and MASON H. JONES, Chicago, Ill., assignors to Super Reflex Company, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,289. 7 Claims. (Cl. 95—58.)

1. In a photographic camera of the character described a shutter, a shutter operating mechanism comprising a flexible member secured to said shutter, a shaft journaled in said camera and provided with a winding reel or spool thereon to which said flexible member is secured, spring means for actuating said shaft to wind said flexible member on said reel or spool, and means for adjusting the tension of said spring means, whereby the speed of said shutter may be adjusted, said tension adjusting means comprising a ratchet wheel, a sector gear actuating said shaft, a spring having its opposite ends secured to move with said ratchet wheel and said sector



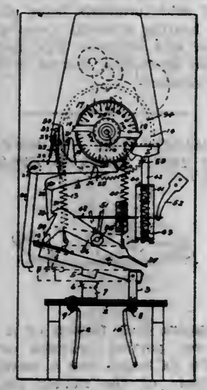
gear respectively, means for turning said ratchet wheel, and means for holding said ratchet wheel in any desired position.

1,456,138. AUXILIARY FEED BLOCK FOR FURNACES. VASIL MACKAY, Washington, D. C. Filed Oct. 30, 1919. Serial No. 334,589. 3 Claims. (Cl. 110—39.)



1. In combination with a furnace having a fuel opening therein, a dead plate secured in the furnace adjacent the fuel opening and having a recess therein and a socket on each side of the recess, side beams having their forward ends received in the sockets, a fuel supporting and feeding member pivotally carried by the side beams and received in the recess of the dead plate, grate bars pivotally carried by the side beams, and means for operating the grate bars and fuel supporting and feeding member.

1,456,139. AUTOMATIC TIME SWITCH. EMIL A. MEYER, Houston, Tex. Filed Oct. 3, 1921. Serial No. 505,209. 8 Claims. (Cl. 200—39.)



8. The combination with an electrical switch, of means to close and open the switch at adjustable time inter-

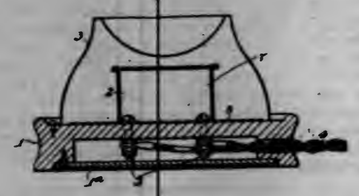
vals, means to move the closing means out of the path of opening movement of the switch and means to operate the last named means at fixed time intervals.

1,456,140. SAFETY CATCH. EUGENE MORSHOUSE, Providence, R. I., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 20, 1922. Serial No. 537,842. 5 Claims. (Cl. 24—157.)



1. A safety catch comprising a body member having an attaching base and hook-shaped portion with a groove in its outer peripheral face, and a guard member longitudinally slidably mounted in said groove.

1,456,141. ELECTRIC HEATER. CHARLES HOWARD WALTER MORRISON, London, England, assignor, by direct and mesne assignments, to M. & P. Enterprises Limited, London, W. 1, England, and William Herbert Peak, London, W. 14, England. Filed July 10, 1922. Serial No. 573,955. 1 Claim. (Cl. 219—43.)



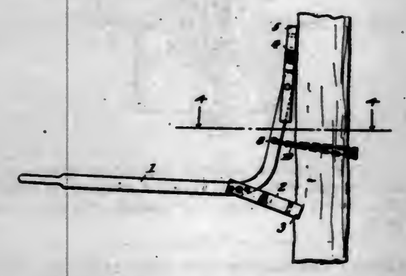
An electric heating appliance consisting of a base, upright conductor legs on the upper side of said base, terminal elements for the line wires and constituting means for fastening the conductor legs to the base, the binding ends of said terminals being disposed on the base, resistance heating elements detachably secured to the upper ends of said conductor legs, and a metal cover having a cup-like depression therein overlying said resistance heating elements.

1,456,142. BOBSLED. OTTO J. NIENOW, Merrill, Wis. Filed Feb. 13, 1922. Serial No. 536,263. 1 Claim. (Cl. 280—27.)



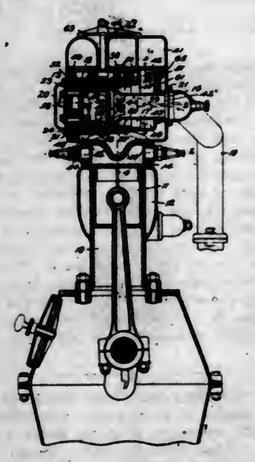
In a sled, runners each formed of a single casting and having a web portion provided with upstanding arms intermediate its length and a marginal flange extending transversely of the runner beyond its inner and outer side faces, the portion of the flange extending beneath the runner being reduced intermediate the length of the runner to provide a seat, a ground-engaging strip secured in said seat, ribs extending from the portions of the flange extending along the inner edges of said arms, and a cross bar for connecting said runners having each end provided with side grooves for receiving said ribs when the end portions of the cross bars are fitted between said arms, and strips carried by said arms and extending across the end portions of the cross bar to prevent upward movement of the cross bar.

1,456,143. WIRE TIGHTENER. FRED NESS, Lake Andes, S. Dak. Filed Feb. 20, 1922. Serial No. 538,010. 2 Claims. (Cl. 254—82.)



1. In a fence-tool of the character described, the combination with an L-shaped operating-lever, a brace arm pivoted at the bend in the L-shaped operating-lever, a dog pivoted to the upper end of the L-shaped operating-lever and operating with the brace arm, and adjustable means carried by the L-shaped member for engagement with the fence wire.

1,456,144. GAS-ENGINE VALVE. BARNEY R. NYHAGEN, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,190. 6 Claims. (Cl. 123—75.)



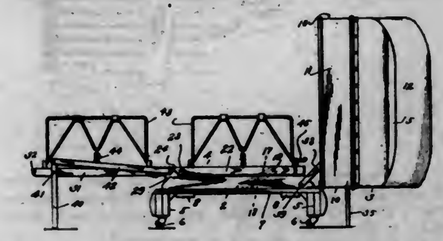
1. In internal combustion engines, a power cylinder, a piston operating therein, a valve head mounted on said cylinder and defining therewith, an explosion chamber above the piston, an intake manifold, an exhaust manifold, a plurality of telescopically connected valve sleeves, the head having a chamber in which said sleeves are adapted to reciprocate, said head having a combined inlet and exhaust port leading to the power chamber, the outer sleeve having a port adapted to register with said inlet and exhaust port, the inner valve sleeve having a port adapted to register with said first and second named ports, said outer sleeve valve serving, when in one position, to close the aforesaid port of the head, the inner sleeve valve having an ejecting piston operatively co-acting with the exhaust manifold and with the inlet and exhaust ports of the outer sleeve and valve head respectively for forcing the exhaust gas into said exhaust manifold, and mechanism for reciprocating said sleeve valves in time with the movements of the piston in said power cylinder.

1,456,145. FERRULE FOR BOILER TUBES. JOSEF PEČINKA, Deutsch-Wagram, Austria. Filed Apr. 22, 1912. Serial No. 692,315. 1 Claim. (Cl. 285—47.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A boiler tube ferrule comprising a cap of a refractory material provided with an inner circumferential groove having a tapering side wall provided with an annular recess for the reception of the correspondingly shaped end of the boiler tube protruding from the boiler, and a ring within said annular recess for connecting the end of the tube within and with said ferrule, substantially as described.

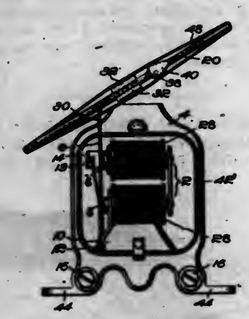
1,456,146. COUCH BED. BURTON C. POSTON, Chillicothe, Ohio. Filed Jan. 26, 1921. Serial No. 439,947. 1 Claim. (Cl. 5—16.)



In a couch-bed, a base, a housing member formed to include an internal chamber normally disposed above said base, a hinge connection between one of the lower edges of said housing member and said base and capable of permitting said member to be swung to assume a position substantially to one side of said base, and a foldable bed frame capable of occupying said chamber when said housing member assumes its normal position and to be extended to produce a bed structure when said member is elevated to occupy an open position, legs mounted in the housing, and means for pivotally connecting the legs and base to cause said legs to slide when the housing member is swung in either direction.

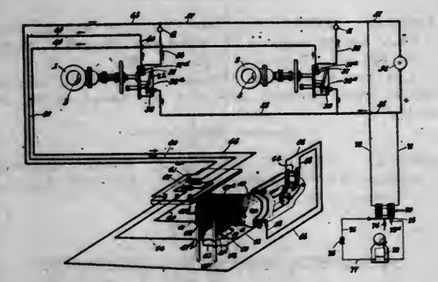
1,456,147. AGITATING DEVICE. TRACY JACKSON PUTNAM, Boston, Mass. Filed Jan. 9, 1920. Serial No. 350,846. 3 Claims. (Cl. 259—75.)

1. Apparatus for agitating liquids comprising, in combination, a vessel adapted to hold liquids, said vessel having unequal axes, means for supporting said vessel with its long axis at an acute angle to the supporting means, and means for causing vibration of the supporting means



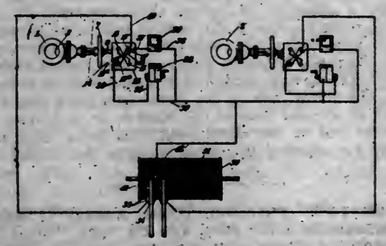
whereby the contents of the vessel are given a circulatory motion to agitate them thoroughly.

1,456,148. RECORDING APPARATUS FOR VALVES AND THE LIKE. CHARLES E. RENSHAW, East Orange, N. J. Filed July 24, 1919. Serial No. 313,042. 36 Claims. (Cl. 234—1.5.)



2. In an automatic sprinkler system for fire prevention, a valve for controlling the supply of the sprinkling fluid, means for indicating a particular position of the valve, and means for causing said indication to be repeated so long as the valve is in said position.

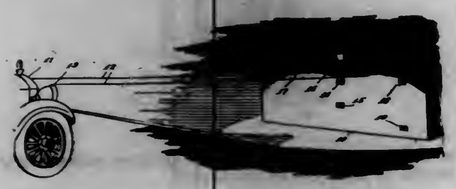
1,456,149. RECORDING APPARATUS FOR VALVES AND THE LIKE. CHARLES E. RENSHAW, East Orange, N. J. Filed July 29, 1919. Serial No. 313,966. 8 Claims. (Cl. 234—17.5.)



1. In a recording apparatus for valves and the like, the combination of a valve, a manually operable device,

a recording means and a signal, and connections such that a record can be made by manual operation of such device when the valve is in a desired position, but preventing the operation of the signal, and such that the signal will be operated by manual operation of such device when the valve is in an undesirable position, but the making of a record will be prevented.

1,456,150. HEADLIGHT PHOTOMETER. CHESTER S. RICKER, Indianapolis, Ind. Filed Jan. 12, 1921. Serial No. 436,672. 7 Claims. (Cl. 88—23.)

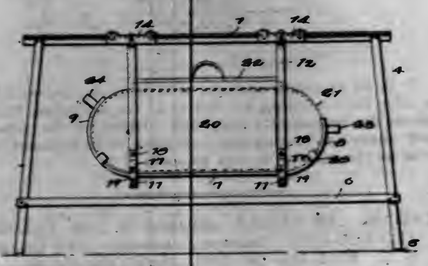


1. A headlight photometer, comprising a screen having a plurality of windows arranged to receive light at predetermined angles from a headlight at a predetermined distance from the screen, and means for illuminating said windows from the rear to individually predetermined values.

1,456,151. METAL POLISH. WILLIAM ALBERT RUDDELL, Asbury Park, N. J. Filed Dec. 28, 1921. Serial No. 525,447. 3 Claims. (Cl. 148—22.)

1. A metal polishing composition comprising a mixture of tripoli powder, oxalic acid, salt, borax, water, and alcohol.

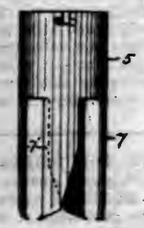
1,456,152. CHURN. THOMAS J. SEARCY, Eldorado Springs, Mo. Filed May 19, 1922. Serial No. 562,144. 3 Claims. (Cl. 259—91.)



1. In combination, a frame, legs for supporting said frame, a plurality of rocker arms supported on said frame, trunnion rods in the ends of said arms, a pair of cradle rods extending in parallel spaced relation with each other and provided with upwardly curved ends, a churn tank having curved ends situated in said cradle rods, the curved ends on the cradle rods being greater in length at one end than at the other so as to prevent the adjacent end of the churn tank from being lifted, and means for securing the churn tank to the cradle rods.

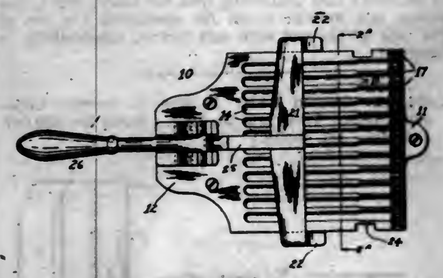
1,456,153. DRILLING TOOL. HERMAN L. SEEGER, Indianapolis, Ind. Filed Aug. 29, 1921. Serial No. 496,252. 5 Claims. (Cl. 255—67.)

1. In a tool for the purposes specified, a substantially cylindrical member having a plurality of spaced apart slots extending in from one end of said member first obliquely and then nearer at right angles with said end



forming tongues to retain the earthen core which tongues are sharpened at their outer ends to form cutters, and means for manually operating said member.

1,456,154. MACHINE FOR LOADING CARTRIDGE BELTS AND THE LIKE. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 23, 1918. Serial No. 263,900. 29 Claims. (Cl. 86—48.)



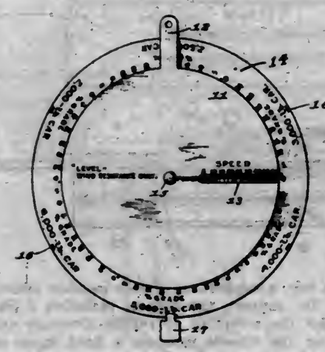
13. A loading device comprising a bed, means thereon to position a plurality of links in overlapping relation and a plurality of cartridges, and means to limit movement of the links.

14. In a device of the character described, means for supporting a pair of links in position to be coupled by a cartridge, means for effecting the insertion of the cartridge in the coupling connection in said links, and means for limiting the movement of said second named means.

17. In a device of the character described, means for supporting a pair of links in position to be coupled by a cartridge, and means for effecting the insertion of the cartridge into coupling connection with said links.

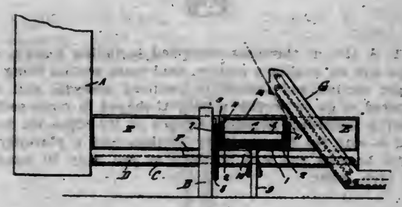
1,456,155. INDICATOR. HAROLD WHITING SLAUSON, New York, N. Y. Filed May 24, 1920. Serial No. 383,834. 8 Claims. (Cl. 235—88.)

1. A device for indicating the magnitude of a resultant quantity incident to the motion of a vehicle which is a function of the inclination of the path of motion of the vehicle and another variable quantity, comprising a member carried by the vehicle and responsive to the force of gravity, and a member carried by the vehicle and movable relative to said first mentioned member in response to changes of inclination of said vehicle, one of said members having thereon a series of resultant indicia of which inclination and another variable quantity are factors arranged to correspond in one direction with their inclination components and in another direction



with their other variable quantity components and the other of said members having indicia thereon representing said other variable quantity components arranged to register with the resultant indicia of which they are factors.

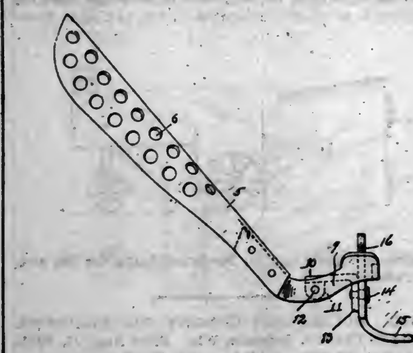
1,456,156. ATTACHMENT FOR COMBINED HARVESTERS AND THRASHERS. WALTER ROGER TANDY, Abilene, Tex. Filed Nov. 7, 1921. Serial No. 513,504. 2 Claims. (Cl. 198—233.)



1. The combination with the laterally extending platform and conveyor of a combined harvester and thrasher, of a rearwardly extending platform hingedly connected at its front end to the back portion of the laterally extending platform, a wheel supporting the rear portion of the hinged platform, an endless conveyor carried by the hinged platform, a ground engaging wheel, a structure carried thereby and mounted for up and down movement independent of the hinged platform and means for transmitting motion from said last named wheel to the conveyor on the hinged platform.

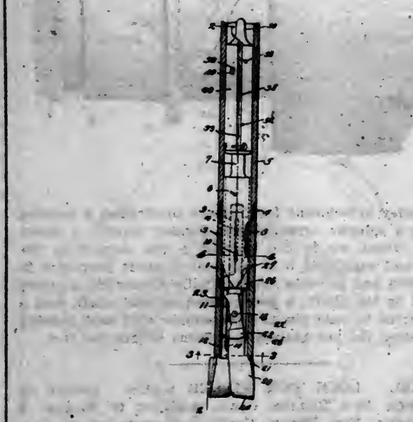
1,456,157. LID LIFTER. FREDERICK G. TREUBIG, Ozone Park, N. Y. Filed Apr. 6, 1922. Serial No. 550,134. 4 Claims. (Cl. 294—13.)

1. In a lid lifter, a handle, a yoke rigid with the handle, a member oscillatably mounted in the yoke, fingers pivotally connected to the member and extending above and below the yoke, the said fingers having camming outer



edges adapted to engage the yoke as the yoke and member move relative to each other during the lifting operation.

1,456,158. WELL DRILL. JESSE F. TUNNELL, Dallas, Tex. Filed May 10, 1921. Serial No. 468,214. 8 Claims. (Cl. 255—76.)

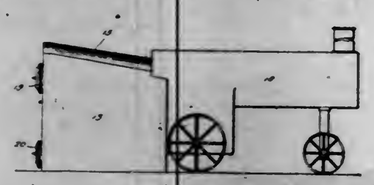


1. A well drill including a casing mounted for rotation and having an opening in one end, a body slidable within the casing, pivotally mounted bits connected to and slidable independently of the body, said bits being insertable through the opening in the casing, cooperating means upon the bits and casing for limiting the movement of the bits from the casing, means movable with the body and relative to the bits for wedging between the bits and the walls of the opening to hold the bits in engagement with the end of the casing, and means carried by the bits and cooperating with said holding means for shifting said bits out of engagement with the end of the casing when the body is raised relative to the bits.

1,456,159. FURNACE. SAMUEL ALLEN USHER, Chunky, Miss. Filed June 8, 1920. Serial No. 387,421. 1 Claim. (Cl. 110—88.)

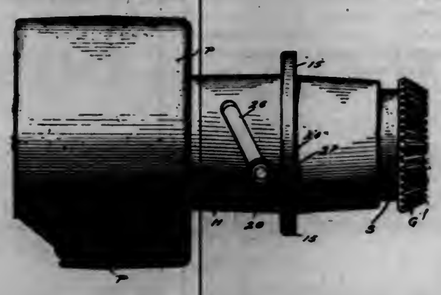
The combination with a boiler, of a removable auxiliary furnace including a top wall, end wall and side walls, the latter extending beyond the end of the top wall to receive the end of the boiler furnace within the open end of the auxiliary furnace with the end wall of the former abutting the edge of the top wall of the latter and with

the side walls of the auxiliary furnace overlapping the side walls of the boiler, a transversely arranged grate supporting bar within the auxiliary furnace and abutting the boiler, a grate, doors located in the end wall above



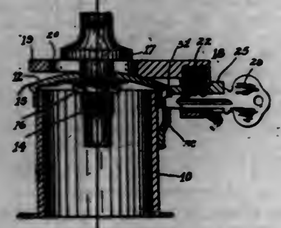
and below the grate and an insulated lining for the auxiliary furnace.

1,456,160. PULLEY ATTACHMENT FOR TRACTORS. HENRY C. UTTECH, Lebanon, Wis. Filed Aug. 25, 1921. Serial No. 495,228. 1 Claim. (Cl. 74—7.)



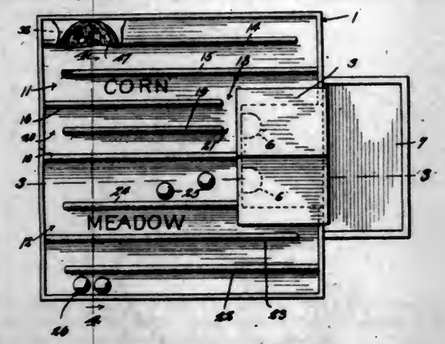
A pulley attachment for tractors comprising a housing having a spirally arranged slot formed therein, a sleeve loosely fitted within the housing, a pin carried by the sleeve and extending into said slot, a shaft journaled in the sleeve and movable longitudinally therewith, a pulley carried by the shaft, a gear carried by said shaft, and a nut carried by said pin and cooperable with said housing for locking the pin against movement within the slot.

1,456,161. LOCK FOR FILLER CAPS. HENRY G. VOIGHT, New Britain, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 27, 1918. Serial No. 224,963. 17 Claims. (Cl. 70—60.)



1. A radiator filler tube, a cap therefor, a separate member mounted upon the outer face of said cap but secured thereto from the under surface of the cap, and key-controlled means for locking the cap to the filler tube against manual removal, said key-controlled means carried by and retained in its operative position by said separate member.

1,456,162. GAME. CHARLES W. WALKER, Apollo, Pa. Filed July 15, 1921. Serial No. 485,044. 3 Claims. (Cl. 46—61.)



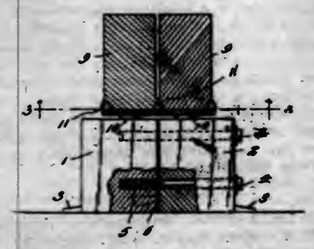
1. In a toy, a support, a tiltable member mounted to swing on the support, the support including a platform adapted for the reception of rolling elements and discharging on the tiltable member, a fixed figure on the support, a cover for the figure, and means for connecting the cover operatively with the tiltable member, whereby the said member will raise the cover with respect to the figure when said member is tilted in one direction, and lower the cover with respect to the figure when said member is tilted in an opposite.

1,456,163. TIRE. HUGH B. WALTON, Deer Park, Wash. Filed Nov. 10, 1922. Serial No. 600,073. 2 Claims. (Cl. 152—1.)



1. A tire of the class described including a main section and an auxiliary section, said main section being the inner section and formed of resilient material and constructed so as to provide a body U-shaped in cross section having inwardly extending flanges on its edges for forming a seat for the auxiliary section, and a plurality of bolts bracing the side portions of the body in relation to each other.

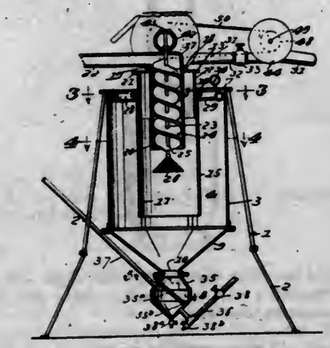
1,456,164. SAW-SETTING DEVICE. ELIJAH E. WASHBURN, Casper, Wyo. Filed May 19, 1922. Serial No. 562,082. 1 Claim. (Cl. 76—59.)



A saw setting device comprising base blocks arranged side by side and having vertical sockets in parallelism, rolls of steel or other appropriate hard metal arranged above and spaced from the base blocks and having

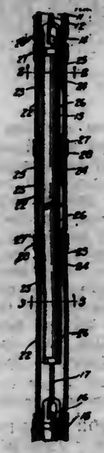
stems removably arranged and freely rotatable in the said sockets and also having meshed teeth at their lower ends, and headed screws extending through one of the base blocks and engaging threaded sockets in the other base block, whereby the blocks may be adjustably spaced apart to space the peripheries of the rolls and so that shims can be interposed between the base blocks.

1,456,165. ORE SEPARATOR. STEPHEN H. WHITNEY, San Francisco, Calif., assignor of one-fourth to Albert A. Eddie, San Francisco, Calif. Filed Oct. 21, 1919. Serial No. 332,223. 7 Claims. (Cl. 83—82.)



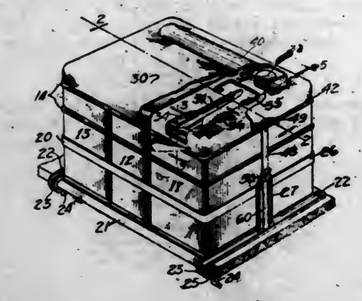
1. A device of the character described including a support, a pressure support mounted in the tank, a pressure supply pipe leading to the tank, a cylinder disposed concentrically within the tank and providing a separating chamber, a conducting tube disposed concentrically within the chamber, a rotatably mounted feeding screw disposed through the tube, a conical deflector loosely suspended from the lower end of the screw and positioned within the chamber, an outlet conducting pipe leading from the separating chamber, means mounted at the top of the chamber near the outlet for removing metallic particles from the ore, and means at the bottom of the tank for receiving heavy particles.

1,456,166. OIL-WELL PUMP. CHARLES E. WILCOX, Anaheim, Calif. Filed Dec. 27, 1921. Serial No. 524,887. 8 Claims. (Cl. 74—108.)



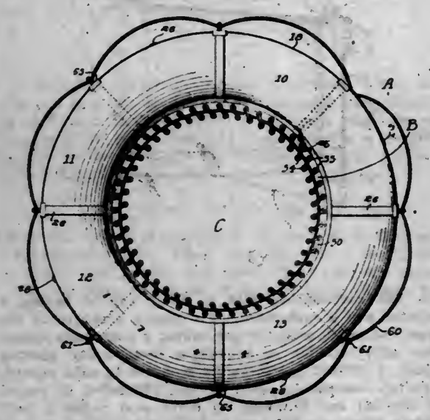
1. A working barrel for an oil well pump comprising: a series of liners each adapted to fit on a pump plunger; and means for supporting said liners so as to leave a space around said plunger, and between said liners.

1,456,167. EMERGENCY UNIT. OZRO N. WISWELL and SCOTT E. ALLEN, Los Angeles, Calif., assignors to Swingspout Measure Co., Los Angeles, Calif., a Corporation of California. Filed Aug. 4, 1921. Serial No. 489,842. 8 Claims. (Cl. 224—29.)



1. In combination: a plurality of containers each having a swinging spout; means for holding said containers together; and a single means for locking all of said swinging spouts in their closed positions.

1,456,168. PNEUMATIC LIFE RAFT. CHARLES C. WITMER and BECKWITH HAVENS, Hammondsport, N. Y., assignors to "Airships Incorporated," Hammondsport, N. Y., a Corporation of New York. Filed Nov. 17, 1921. Serial No. 515,931. 11 Claims. (Cl. 9—11.)



1. A pneumatic raft comprising an annular flexible body formed from balloon cloth, a plurality of partitions dividing the body into a plurality of independent air compartments, and perforated partitions arranged in each compartment, whereby the washing back and forth of fluid in said compartments during change of load thereon is prevented.

1,456,169. LATCH. WILLIAM S. WITTEN, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,188. 8 Claims. (Cl. 292—238.)

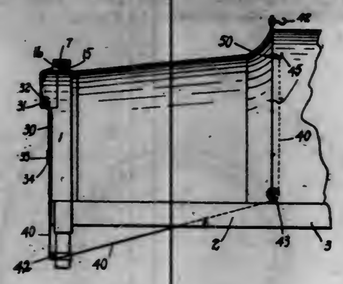
4. A latch comprising a casing adapted to be secured to a door a short distance back from the edge thereof, a pendulous bar mounted in said casing, a horizontally-disposed latching-bolt mounted on the lower end of said

pendulous bar and movable freely between the oppositely-disposed walls of said casing, and an extension from the



edge of said casing substantially to the edge of the door adapted to support the latching-bolt adjacent to the co-operating keeper.

1,456,170. RADIATOR CURTAIN. CHARLES C. WOODBERRY, Cincinnati, Ohio. Filed Apr. 2, 1921. Serial No. 458,035. 4 Claims. (Cl. 257—132.)



1. The combination with a motor vehicle having a radiator and a dash-board, of a canopy arranged at the upper end of the radiator and having a lower edge spaced from said radiator to provide a downwardly opening mouth, a curtain rod rotatably mounted in said canopy, a curtain connected to said rod and adapted to be wound on the rod and unwound to cover said radiator, said curtain being adapted also to move through said mouth, and curtain actuating means connectd to the curtain and extending to the dash-board to permit the operator of the vehicle to actuate the same.

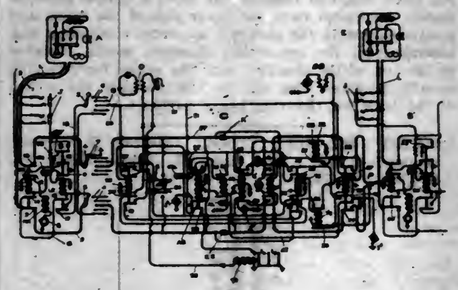
1,456,171. INTERNAL-COMBUSTION ENGINE. MILLARD F. WOODWARD, Alexandria, La. Filed Apr. 17, 1922. Serial No. 553,495. 1 Claim. (Cl. 74—108.)

In combination with a cylinder and its piston, a bushing fitting in the cylinder and engaged by the piston, a beveled seat in the lower end of the cylinder, the bushing having its beveled lower end engaging the seat, the upper end of the bushing having a reduced part forming a shoulder and the cylinder having an annular recess at its upper end, the bottom of which is flush with the shoulder and notches communicating with said recess, a ring fitting in the recess and engaging the shoulder, ears on the ring engaging the notches, bolts passing



through the ears into the cylinder, the upper end of the cylinder having a key slot therein and a key on the bushing engaging said slot.

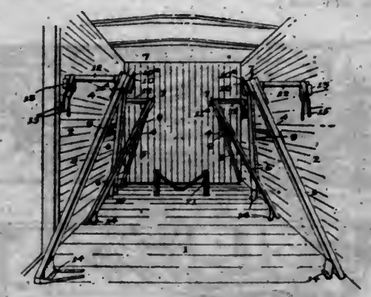
1,456,172. TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1919. Serial No. 271,886. 16 Claims. (Cl. 179—27.)



1. A telephone system including calling and called subscribers' lines, a link circuit, an automatic switch for connecting said calling subscriber's line and said link circuit, manually controlled means for connecting said link circuit to said called subscriber's line, a source of signaling current, a source of busy current, automatic means responsive to the connection of said link circuit to said called subscriber's line to either connect the signaling current to the called subscriber's line or the busy current to the calling subscriber's line dependent upon the idle or busy condition of the called subscriber's line, a supervisory lamp for said link circuit, and means for automatically flashing said supervisory lamp responsive to a single actuation of the switchhook at the calling substation.

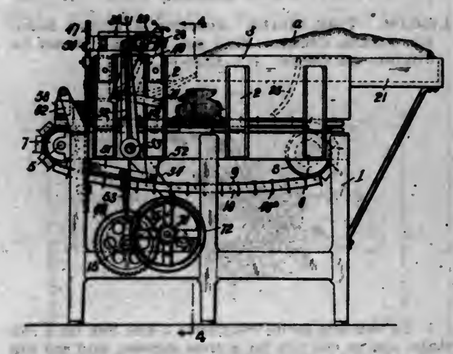
1,456,173. SYSTEM FOR LOADING AUTOMOBILES IN FREIGHT CARS. RICHARD E. BAUS, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Mar. 15, 1918. Serial No. 222,583. 13 Claims. (Cl. 105—368.)

11. A structure for loading freight cars with automobiles, having in combination, a pair of inclined frames adapted to support the automobile at the top which acts



as a tie between the two halves of substantially a longitudinally split horse.

1,456,174. MOLDING MACHINE FOR PLASTIC MATERIALS. FRANK E. BEAM, Toledo, Ohio, assignor to The Automat Molding & Folding Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 10, 1922. Serial No. 550,984. 14 Claims. (Cl. 31—65.)

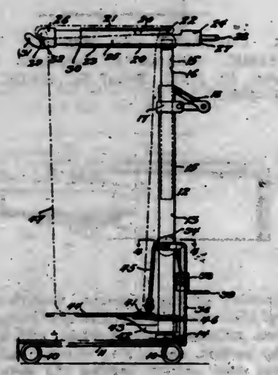


1. In a machine of the class described, means forming a channel for receiving the material to be pressed into shape corresponding to the cross-sectional shape of a portion of the channel, a curved presser plate mounted in the channel over the material for rolling movement lengthwise of the channel, and mechanism operable to impart predetermined reciprocatory movements to the blade.

10. In a machine of the class described, means forming a molding channel, an endless conveyor means movable in the bottom of the channel longitudinally thereof, means for periodically advancing the conveyor means, means operable to press plastic material in column form in the channel on the top of the conveyor means, and means periodically operable to sever the formed column into sections.

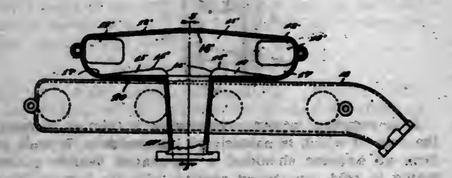
14. In a machine of the class described, a continuously rotating shaft, means forming a molding channel, an endless conveyor means movable lengthwise of the channel and having the upper flight thereof forming the channel bottom, means connecting said shaft and conveyor means and operable to impart a predetermined advancing movement to the conveyor means at each rotation of the shaft, a member mounted in the channel for rolling pressing coaction with material therein, means operable at each rotation of the shaft to impart a rolling material pressing movement to the member, means operable by the shaft at each rotation thereof to sever a section from the forward end of the formed material column, and means operable to move a severed section transversely from the conveying means after each severing action.

1,456,175. BAG HOLDER. WILLIAM J. BORLASE, Philadelphia, Pa. Filed June 27, 1922. Serial No. 571,239. 12 Claims. (Cl. 83—26.)



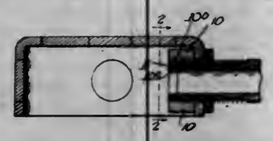
3. In a bag holder, supporting means over which the open end of a bag can be turned; and means for stretching said open end of the bag to hold the mouth in an open position, said stretching means having a portion adapted to be flexed, by the bag, into holding position with said first means.

1,456,176. FUEL MANIFOLD. ROBERT W. A. BREWER, Indianapolis, Ind. Filed June 23, 1921. Serial No. 479,887. 17 Claims. (Cl. 123—122.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A fuel induction pipe for multi-cylinder internal combustion engines, substantially T-shape in form, and means for locally heating a limited portion of the wall of such structure closely adjacent the junction between the main stem and branches, said heated portion being a surface upon which liquid particles from the fuel stream will contact, and the local heating means comprising movable conduction elements.

1,456,177. SHOULDERED NUT OR BUSHING AND METHOD OF MAKING SAME. WILLIAM P. CROCKETT, Chicago, Ill. Filed Jan. 10, 1921. Serial No. 436,054. 6 Claims. (Cl. 29—155.5.)



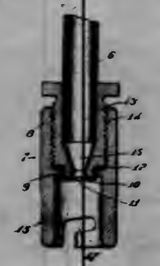
1. An article of the character described, comprising a body internally threaded throughout its free bore and a shallow solid ring permanently engaging throughout its side-surface in the mouth or end of said body-bore.

1,456,178. COUPLING AND METHOD OF MAKING THE SAME. WILLIAM P. CROCKETT, Chicago, Ill. Filed Jan. 10, 1921. Serial No. 436,055. 6 Claims. (Cl. 29—155.5.)



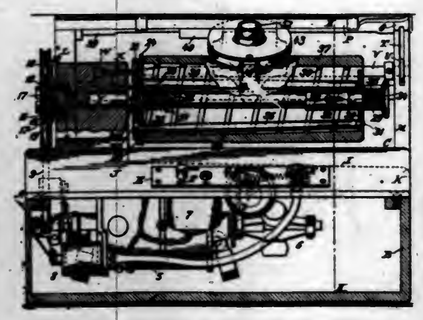
1. A coupling of the character described comprising an integral sheet metal element shaped to form a lengthwise-seamed cylindrical stem-portion and a lengthwise-split clamp portion, and a ring element surrounding the root of the stem portion holding the stem-seam closed and constituting a flange or collar between the stem portion and the clamp portion.

1,456,179. COUPLING. NORMAN W. CUMMINS, Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed May 29, 1920. Serial No. 385,151. 4 Claims. (Cl. 285—166.)



1. A coupling member comprising a tubular member, the bore of which is constricted intermediate its ends to form an annular shoulder, a cup-shaped flexible gasket seated in said constricted portion with its bottom lying in a plane beyond said constricted portion, and provided with an aperture, the edge of said gasket being provided with a flange resting against said shoulder, and a follower having screw-threaded engagement with said tubular member for holding said flange against said shoulder, the inner end of said follower being provided with an extension extending through said constricted portion of the bore, and supporting the bottom of said gasket, the said follower being provided with a bore larger than the aperture in the bottom of said gasket.

1,456,180. MACHINE FOR RECORDING AND REPRODUCING SOUND. FRANK W. DOWNE, San Francisco, Calif., assignor to Mechanical Perfecting Corporation. Filed June 20, 1916. Serial No. 104,656. 12 Claims. (Cl. 274—17.)



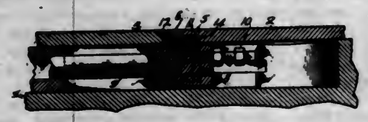
1. In a machine of the class described, a record cylinder, means for supporting and rotating said cylinder, a movable carriage by which said cylinder is moved to any desired position, a sound reproducing stylus, a back-spacer in conjunction with said carriage, whereby said carriage may be moved backward and any desired part of the record repeated, and a forward spacer in conjunction with said carriage whereby said carriage may be moved forward and any desired part of the record omitted.

1,456,181. TIRE CHAIN. RUDOLPH W. EVANS, Hamilton, Ontario, Canada. Filed Oct. 27, 1921. Serial No. 510,762. 12 Claims. (Cl. 152—14.)



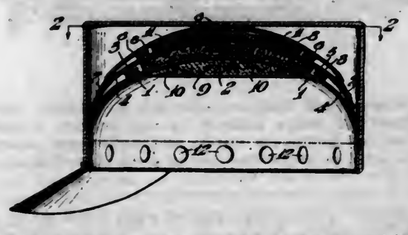
1. An anti-skid device comprising a side link for a side chain, and an end link for a cross member, said end link operatively embracing a side portion of the side link and means embracing the companion side portion thereof for preventing the side portions of the side link from spreading, said means having connection to the opposite side portion through the medium only of said end link.

1,456,182. MARGINAL PRINTING. ADDISON J. GALLIEN, Upper Montclair, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Sept. 3, 1921. Serial No. 498,196. 5 Claims. (Cl. 101—378.)



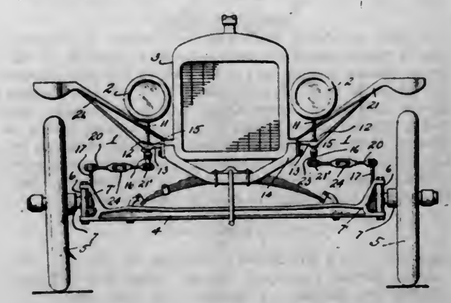
1. The combination with a printing plate support, of a plate stop on the support and normally spacing two adjacent plates to form a margin space therebetween, and a pair of plates on the support, one of said plates having an extension projecting entirely across the margin space and providing an unbroken printing surface in such space.

1,456,183. HEAD-PROTECTION ATTACHMENT FOR CAPS, HATS, OR OTHER HEADGEAR. GEORGE B. KNIGHT, Camden, N. J. Filed Nov. 10, 1921. Serial No. 514,177. 4 Claims. (Cl. 2—192.)



1. In a head protecting attachment for an article of head-gear, a hollow body adapted to fit the head, crossed resilient strips having their ends secured to said body and their crossed portions spring-supported, a coiled spring seated on the outer face of said body about the crown thereof, and coiled springs of resilient material connected with said face and seated elevated on said spring.

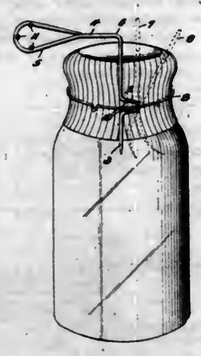
1,456,184. DIRIGIBLE HEADLIGHT MOUNTING. HARRY C. LOGAN, Rockbridge, Ohio. Filed Feb. 23, 1921. Serial No. 447,145. 1 Claim. (Cl. 240—62.)



The combination with a steering mechanism of a vehicle including rearwardly extending horizontal arms, of vertical rods having their lower ends rigidly secured to the arms intermediate the ends thereof, brackets carried by the vehicle frame, lamp supporting rods journaled vertically intermediate their ends in said brackets, crank arms having their forward ends rigidly connected with the lower ends of the lamp supporting rods, adjustable sectionalized links having their inner ends pivotally connected to the inner ends of the crank arms and their outer ends similarly connected to the upper ends of the vertical rods, the pivotal connection of the lamp supporting rods and knuckles of the steering mechanism being in direct alignment.

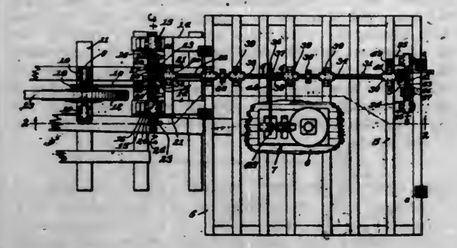
1,456,185. TOOL FOR REMOVING TIES FROM BOTTLE NECKS. ALLEN C. MEEKER, Madrid, N. Y., assignor of one-half to Webster E. Griffith, Madrid, N. Y. Filed Jan. 6, 1923. Serial No. 611,113. 4 Claims. (Cl. 65—46.)

1. A tool for removing ties from bottle necks comprising a member adapted to be interposed between the tie and the bottle neck and having a curved portion conforming to the shape of the bottle neck for guiding the tool



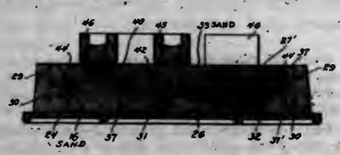
to operative position, the said member adapted to engage the tie to sever it when the tool is rotated.

1,456,186. SHAFT DRIVE FOR COMBINATION DRILLING AND WELL PULLING. LOUIS RALPH MORRIS, Taft, Calif. Filed Apr. 25, 1922. Serial No. 556,388. 7 Claims. (Cl. 255—19.)



1. In a shaft drive for combination drilling and well pulling, the combination with a derrick of a shaft rotatably mounted therein and projecting outside of the derrick, an outboard bearing for the projecting end of the shaft, a shaft extending at a right angle to the first shaft, a bevel gear loose on the second shaft, a bevel gear on the first shaft engaging the first gear, clutch means between the loose gear and the second shaft, a sprocket wheel loose on the second shaft, clutch means between the sprocket wheel and the second shaft, a sprocket wheel on the first shaft, a second bevel gear on the first shaft, a third shaft journaled in the derrick at a right angle to the first shaft, a bevel gear on the third shaft in mesh with the last bevel gear, and a sprocket wheel on the third shaft.

1,456,187. CAST-STEEL TIRE MOLD. JOHN H. MULLOY, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 10, 1921. Serial No. 476,410. 9 Claims. (Cl. 22—193.)



1. A pattern of the core-box type for annular castings of tire mold sections having at least two substantially

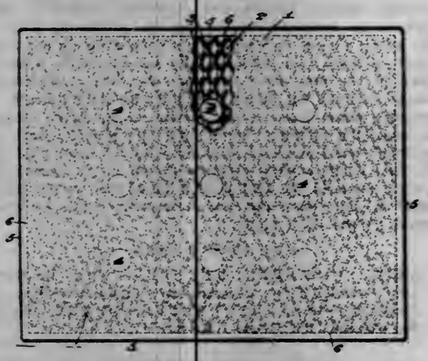
rigid parts for separately deriving shapes in complementary sand copes and drags defining when assembled a molding cavity, one of said parts being provided with an annular groove approximating the shape of the inner face of the tire mold section and the other being provided with a projection approximating the shape of the outer face of the tire mold section.

1,456,188. IGNITION DEVICE. CHARLES S. NOE, Chicago, and JOHN KAUFMAN, Fox Lake, Ill. Filed Mar. 19, 1920. Serial No. 367,269. 9 Claims. (Cl. 158—76.)



1. In a device of the character described, the combination of a head, a nozzle for compressed air mounted in said head and longitudinally adjustable therein, said head having a tapering bore and the nozzle having a tapering portion entering said tapering bore in spaced relation thereto, an oil conduit communicating with said tapering bore and with the interspace between said bore and said nozzle, the head being provided with another bore in alinement with the first named bore and terminating in a constricted port, and a discharge nozzle mounted in said other bore provided with a constricted opening in alinement with said port and air nozzle having a passage tapering in a direction opposite to that of the bore of the head.

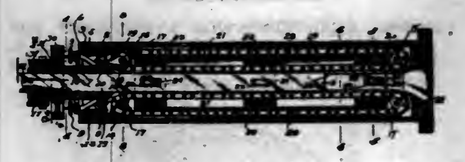
1,456,189. BINDER'S PRESSBOARD. ELBRIDGE W. PALMER, Long Island City, N. Y., assignor to J. F. Tapley Co., Long Island City, N. Y., a Corporation of New York. Filed Apr. 26, 1921. Serial No. 464,723. 15 Claims. (Cl. 100—24.)



1. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, and a peripheral frame therefor, the edges of which project beyond the planes of said top and bottom sheets.

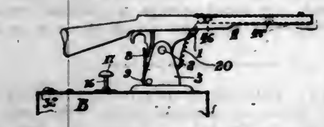
8. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, a peripheral frame therefor having an internal peripheral flange inserted between said sheets, and spacers located at different points between said sheets.

1,456,190. FEEDING DEVICE FOR TACK-MAKING MACHINES. GEORGE A. PARKER, Brockton, Mass. Filed July 14, 1921. Serial No. 484,677. 5 Claims. (Cl. 10—174.)



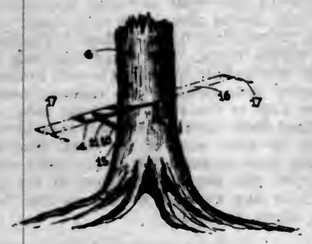
1. In a blank feeding mechanism, a rotatable blank holder, and means actuated by the rotation of said holder for feeding the blanks, said means being adjustable so as to control the rate of speed of said blanks.

1,456,191. AIM-PRACTICING APPARATUS. WILLIAM GRAHAM PATERSON, Glasgow, Scotland, assignor to The Flash Gun Limited, Glasgow, Scotland. Filed Sept. 26, 1921. Serial No. 503,184. 21 Claims. (Cl. 124—15.5.)



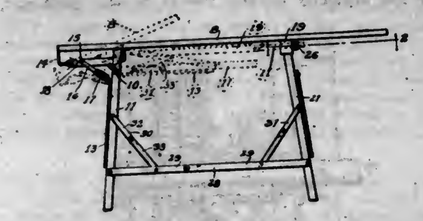
1. Aim practicing apparatus comprising, in combination, a gun mounted for movement in a plurality of different planes, locking means for locking the gun against movement in each of said planes, each of said locking means embodying co-operating and interengaging elements, one of which elements of each locking means is movable with the gun, the other respective elements being carried by the gun mounting, and means responsive to the pulling of the trigger, to cause the respective said elements to interengage to lock the gun in position.

1,456,192. SAW SUPPORT. WILLIAM G. PEACOCK, Enderby, British Columbia, Canada. Filed May 16, 1922. Serial No. 561,443. 3 Claims. (Cl. 143—163.)



1. A saw support comprising a body member having one end formed for engagement around a tree trunk, means extended from the said end of the body member for attaching the latter to the tree trunk and a bracing member carried by said body member provided with a tree trunk penetrating extension.

1,456,193. FOLDING IRONING BOARD. HERBERT PIKE, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 539,350. 1 Claim. (Cl. 68—10.)



In a device of the class described, the combination with a supporting frame including a pair of front supporting legs and a pair of rear supporting legs, of an ironing-board mounted on said rear legs for tilting movement and adapted for detachable engagement with the upper portion of said front legs, a guide member having a recess in its upper surface longitudinally mounted on the lower surface of the rear portion of said board and spaced therefrom, a spring-actuated yoke mounted on the upper portion of the rear legs astride said guide member and normally in engagement with its recess.

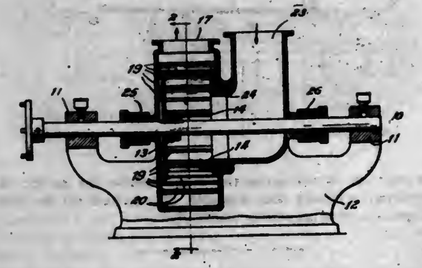
1,456,194. COMBINATION FLOOR LAMP, TABLE LAMP, AND PEDESTAL. JOSEPH ROSENBERG, Chicago, Ill. Filed Jan. 9, 1922. Serial No. 527,930. 10 Claims. (Cl. 240—81.)



1. An article of the character described embodying a sectional pedestal embodying a supporting base, means detachably securing the sections together above the base, a lamp proper connected with one of the sections, and an additional base carried by the lamp carrying section for supporting the latter when the lamp carrying section is detached from the other section, the said additional base being concealed within the pedestal when the said sections are secured together.

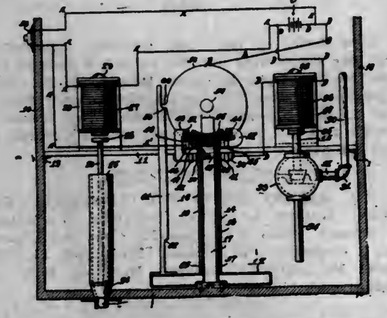
1,456,195. CONDENSER AND VACUUM PUMP. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Jan. 20, 1921. Serial No. 438,595. 7 Claims. (Cl. 230—14.)

1. An apparatus of the character described embodying a casing having an inlet for liquid and an outlet, a rotor in the casing and of a diameter smaller than the interior of the casing to form a space therebetween, a plurality of spaced stationary blades arranged intermediate the casing and the rotor and dividing the casing into two passages having communication with each other between adjacent blades, said casing having an inlet for delivering fluid to the rotor, the said rotor blades



being circumferentially spaced at the periphery of the rotor to operate upon the liquid adjacent the periphery of the rotor to form a spray of the liquid, thereby creating a large condensing area for the vapor delivered to the rotor.

1,456,196. MAGNETIC CONTROL OF FLUSH TANKS. CHARLES H. STAATS, Collingdale, Pa. Filed June 3, 1922. Serial No. 565,695. 6 Claims. (Cl. 4—5.)

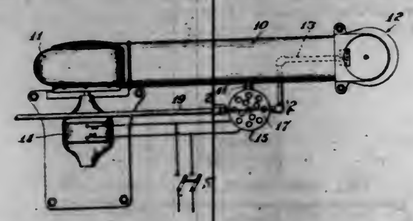


1. An apparatus of the class described, comprising a tank, a float, a vertical guide post, means secured to said float and adapted to travel up and down said post in unison with said float, a valve controlling the water discharge, a valve controlling the water supply, electromagnetic means to control the action of said valves, a disc mounted within said tank, an electric circuit to energise the magnet controlling the discharge valve to open said valve, means to break said circuit and close said valve when it has discharged, an electric circuit to energise said disc and the magnet controlling the supply valve, and means to cause said disc to automatically open said supply valve when the discharge valve closes and to break said circuit and close said valve when the tank has filled to a predetermined level, substantially as described.

1,456,197. FUEL-OIL CONTROL APPARATUS. HUDSON A. TREDMAN, Galesburg, Ill., assignor to Winslow Boiler & Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1921. Serial No. 444,136. Renewed Mar. 15, 1923. 6 Claims. (Cl. 158—36.)

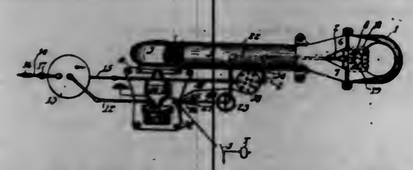
1. In a device of the class described, a fuel-oil burner, a fuel-oil pipe line, an air-blower to deliver air to the

burner, an electric motor for the air-blower, and an electrically operated valve normally closing the pipe



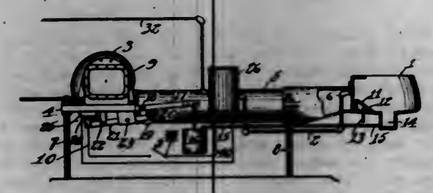
line and in circuit with the motor while the motor is operating, whereby the supplies of air and oil to the burner art synchronously controlled.

1,456,198. OIL-BURNING SYSTEM. HUDSON ALVA TEDMAN, Galesburg, Ill., assignor to Winslow Boiler & Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1921, Serial No. 479,222. Renewed Mar. 15, 1923. 5 Claims. (Cl. 158—36.)



1. In a device of the class described, a burner, a fuel-oil line discharging into the burner, a vacuum tank in the line, means in the burner to vaporize the oil, an air pump controlling the flow of oil from the tank, a blower to feed combustion air to the burner, means to ignite the fuel, and a motor to synchronously control the blower and pump.

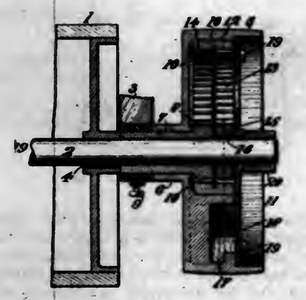
1,456,199. SAFETY DEVICE FOR OIL-BURNING SYSTEMS. HUDSON A. TEDMAN, Galesburg, Ill., assignor to Winslow Boiler & Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1921, Serial No. 479,223. Renewed Mar. 15, 1923. 11 Claims. (Cl. 158—36.)



1. In a device of the class described, a burner having a fuel-oil line, a blower to feed air to the burner, an electrically controlled cut-off valve located in the oil line and included in an electric circuit, and automatic connections between the valve and the burner to permit the former to close the oil line when the burner fails to function.

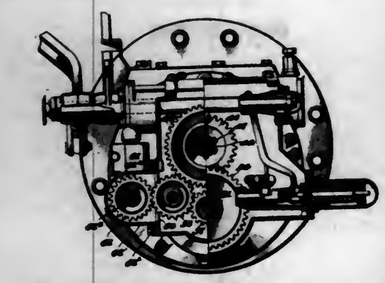
1,456,200. REDUCTION GEAR. HERBERT E. TWOMLEY, Riverside, Calif., assignor to George D. Parker, Riverside, Calif. Filed Mar. 1, 1922. Serial No. 540,182. 9 Claims. (Cl. 74—35)

1. A reduction gear including a rotatable shaft, a drive and a driven part mounted thereon, one free to rotate thereon and the other to rotate therewith, one of said parts provided on its interior with an eccentrically located annular guide, an internal ring gear within said part and annularly movable therein on said guide and



through which said shaft extends, a pinion keyed to the shaft and intermeshing with said ring gear, a second ring gear rotatable with the first, and a pinion intermeshing with said second ring gear.

1,456,201. AUXILIARY PUMP FOR MOTOR VEHICLES. JESSE G. VINCENT, Detroit, Mich., assignor, by mesne assignments, to Kellogg Manufacturing Company, Rochester, N. Y., a Corporation of New York. Original application filed Jan. 31, 1916, Serial No. 75,414. Divided and this application filed Nov. 27, 1918. Serial No. 264,435. 14 Claims. (Cl. 230—27.)

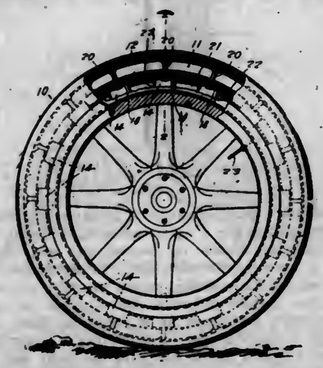


1. In combination, a motor vehicle transmission casing formed with an opening in one side, a shaft in the transmission casing having a driven gear thereon mounted adjacent to said opening, a pump having a gear casing partitioned from the pump mechanism and secured to the transmission casing over said opening, a shaft mounted in the pump gear casing outside of the transmission casing and parallel with the shaft in the transmission casing, a gear slidingly mounted on said pump shaft and means for sliding said gear into and out of mesh with said gear in the transmission casing.

3. In combination, a motor vehicle transmission casing formed with an opening in one side, a pump secured to the casing over said opening, a countershaft in the casing, a gear on the countershaft, a gear on the pump shaft wholly outside the casing, a gear extending through said opening and connecting the other gears, one of said gears being slidable into and out of driving position, and means to hold said slidable gear at either end of its movement.

9. In an automobile tire pump adapted to be secured to the side of the transmission case of an automobile and be driven from one of the gears of the transmission gearing, comprising a pump gear-housing and a crank-case secured to one another but separated by a partition, a crank-shaft extending from said crank-case through said partition into said gear-housing, the gear-housing having a flanged opening in a substantially vertical plane parallel with said shaft, and said crank-case having an opening in a substantially horizontal plane also parallel with said shaft, a gear on said shaft located in said gear-housing and arranged to be driven from one of the gears of the transmission gearing, a pump cylinder mounted on said crank-case and in alignment with the opening therein, the axis of the pump cylinder being substantially vertical, a piston within said cylinder, and a driving connection between said piston and said crank-shaft.

1,456,202. TIRE. THOMAS E. WARE, Little Rock, Ark., assignor of one-sixth to James K. Riffel, one-sixth to Frank H. Dodge, one-sixth to James M. Stewart, and one half to Elva Ware, all of Little Rock, Ark. Filed May 20, 1922. Serial No. 562,362. 3 Claims. (Cl. 152—22.)



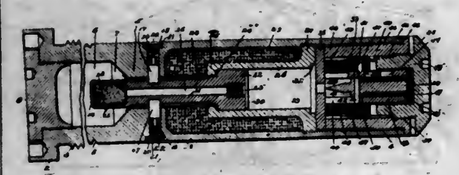
3. A solid tire provided interiorly with an annular passageway, metallic cups engaged against the outer wall of the passageway, radially extending cylinders circumferentially spaced within said tire, pistons mounted within the cylinders and having stems engaging said cups, flexible linings for said cylinders having their upper ends secured to said pistons, a plate secured to the inner face of said tire and to which said cylinders are attached and through which the inner ends of the cylinders open, removable cylinder heads carried by said plate closing the inner ends of said cylinders and maintaining the lower ends of said flexible linings in position, connections between said flexible linings, and an inflating valve communicating with one of said connections.

1,456,203. UNDERFRAME FOR CARS. ROBERT R. WEAVER, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed June 5, 1922. Serial No. 565,858. 6 Claims. (Cl. 105—416.)



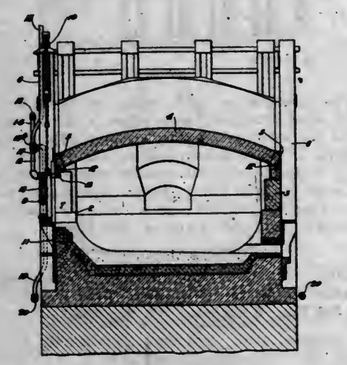
1. A center sill for a car comprising side walls spaced apart and presenting upwardly converging portions, and a member having top and bottom flanges surmounting at its lower flange the top portion of the structure comprising said side walls, and secured thereto.

1,456,204. BASE FUSE. JOHN H. WOODBERRY, U. S. Army. Filed Sept. 20, 1919. Serial No. 325,277. 15 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



7. In a fuse, the combination, with a normally-restrained firing pin carrying a radial projection and releasable by an axial turning movement, of a casing in which said firing pin reciprocates, and having a longitudinally-extending slot in which the firing pin projection moves when the firing pin reciprocates, said slot being provided with an offset portion in which said projection normally rests, a locking-dog reciprocable in said slot and normally holding said projection in said offset portion of the slot, a locking-sleeve encircling said casing and carrying said locking-dog and provided with an annular circumferential shoulder, and centrifugally-movable leaf-springs normally bearing against said shoulder and preventing movement of said locking-sleeve.

1,456,205. FURNACE-DOORWAY CONSTRUCTION. SAMUEL G. WORTON, Duquesne, Pa. Filed Oct. 13, 1921. Serial No. 507,406. 4 Claims. (Cl. 263—44.)

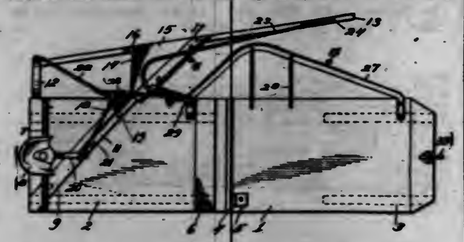


1. A furnace having a side wall with an opening therein, a door frame around said opening, a metal skewback supporting member lying back of the door frame and above the opening, and at least one cooling pipe separate from the door frame, located back of the latter and below the skewback supporting member so as to protect said member.

1,456,206. CORN HARVESTER. WILLIAM F. ZIEGLER, Salina, Kans. Filed Jan. 3, 1921. Serial No. 434,408. 1 Claim. (Cl. 56—100.)

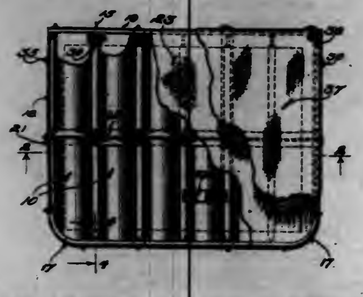
In a corn harvester, the combination with a sledge, of an inverted V-shaped guide overhanging at one side thereof, a beam extending divergingly forward with respect to said sledge, a plate connecting the sledge and beam and provided with an upwardly projecting transverse butt-board portion, a cutting blade bridging the space between the sledge and beam and extending forwardly and outwardly toward the latter, an upright adjacent the inner end of the blade, a guide extending up-

wardly and rearwardly from a point adjacent the front end of the beam toward the upright, then downwardly



and forwardly to form a pocket, and then upwardly and rearwardly to the upright, and means for securing the end of said guide to said upright.

1,456,207. PNEUMATIC-CUSHION SEAT. JOSEPH M. ADAMSKI, Milwaukee, Wis. Filed Apr. 4, 1922. Serial No. 549,494. 5 Claims. (Cl. 155—179.)



1. The combination of a series of horizontal tubes lying in substantially the same plane, a pair of oppositely disposed flat metallic portions gripping adjacent ends of said series of tubes, means securing said portions to each other, a second pair of flat metallic portions gripping the other ends of said series, means securing said second pair of portions together, all of said portions lying in substantially the same plane as said tubes.

1,456,208. QUICK-ACTING WRENCH. CHARLES JOHN ARMSTRONG, Austin, Tex. Filed June 5, 1922. Serial No. 565,792. 5 Claims. (Cl. 81—133.)



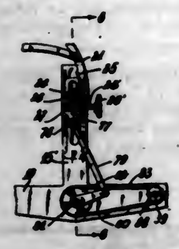
1. A wrench comprising a shank provided with a rack, a fixed jaw at one end of the shank, a handle at the other end, a movable jaw on the shank, a pair of toothed wheels in engagement with the rack and having trunnions supported by the movable jaw, a yoke pivoted on the trunnions of one of the wheels, and having slots receiving the trunnions of the other wheel, the slots being inclined and serving in conjunction with said other wheel to lock the yoke in its closed position.

1,456,209. BURGLAR ALARM. CLARENCE B. ATWOOD, Chicago, Ill. Filed June 15, 1922. Serial No. 568,531. 3 Claims. (Cl. 116—89.)



1. A burglar alarm comprising a barrel carried by a fixed part and having a cartridge seat, a spring-pressed plunger movable within the barrel and adapted when released to explode the cartridge, the upper end of the plunger being bent laterally, means provided on the barrel and the plunger whereby the plunger is given a partial rotative movement as it rises and falls, a lever carried by a movable part and having a laterally disposed foot adapted to engage with the bent end of the plunger when the movable part is raised to carry the plunger with it, said lever being swingable to move the foot into and out of engagement with the bent end of the plunger, and means whereby at a certain point in the upward movement of the movable part the connection between the foot and the bent end of the plunger is automatically released due to the partial rotation of the plunger.

1,456,210. AERIAL VEHICLE. CARLOS O. BARRERA, Tuckahoe, N. Y. Filed Aug. 17, 1922. Serial No. 582,352. 3 Claims. (Cl. 244—14.)



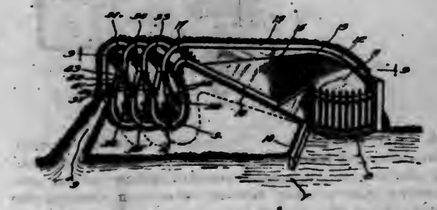
3. In an aeroplane, a front plane hinged on a transverse horizontal axis, a rack member on said plane concentric to the hinge axis thereof, a pair of slidable blocks movable concentric to said hinge axis, a shaft carried by said slidable blocks, gears on said shaft meshing with said rack members, a rod extending fixedly between said blocks, a bracket fixed to said rod, a worm pinion carried by said bracket and engaging said worm gear, and means for adjusting said blocks, said means including a rock shaft, a pair of arms fixed thereto, and links connecting said arms and blocks.

1,456,211. APPARATUS FOR TREATING RUBBER. WILLIAM H. BINES, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Dec. 29, 1920, Serial No. 433,840. Divided and this application filed July 8, 1921. Serial No. 483,156. 9 Claims. (Cl. 18—12.)



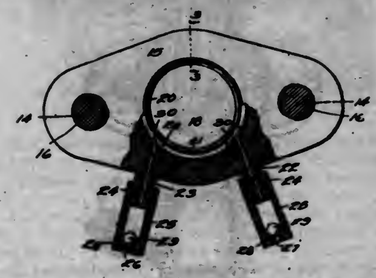
1. An apparatus for the preparation of raw rubber comprising a device for forming the rubber, said device placing the rubber under internal tension, and means for compressing the rubber prior to the final setting thereof.

1,456,212. ART OF POWER GENERATION. JAMES A. BISHOP, Denver, Colo. Filed Sept. 29, 1921. Serial No. 504,163. 3 Claims. (Cl. 61—19.)



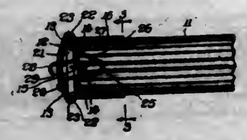
1. An installation for the generation of power from a stream of water flowing down grade, including a relatively broad and shallow intake canal in communication with said stream, a transfer canal in communication with said intake canal and having a downwardly inclined floor and converging side walls so proportioned that the cross sectional area of water in said transfer canal on vertical transverse planes decreases throughout the length of said transfer canal in the direction of flow, whereby the rate of water flow through the transfer canal increases, a delivery canal in communication with the transfer canal, a vertical wheel chamber in communication with the delivery canal, a water wheel within said wheel chamber, mounted for rotation on a vertical axis, and means for delivering water from said wheel back to the flowing stream at a down grade point with respect to the intake, substantially as described.

1,456,213. CARBURETOR ATTACHMENT. CHARLES D. BOWLES, Des Moines, Iowa. Filed July 30, 1921. Serial No. 488,546. 1 Claim. (Cl. 48—180.)



A carburetor device, comprising a fuel passage having an annular chamber projecting into the path of travel of fuel passing through said passage, said chamber having its outer surface inclined to direct the fuel from the wall of the passage inwardly and having an annular slot located to admit air from said chamber to said passage for picking up the fuel on said surface, and means for admitting air to said chamber from the atmosphere, having an air inlet opening and a valve for coacting with said opening subject to actuation according to the degree of vacuum in the passage.

1,456,214. CURTAIN FIXTURE. JAMES H. BOYD, Chicago, Ill. Filed Nov. 10, 1921. Serial No. 514,161. 3 Claims. (Cl. 156—22.)



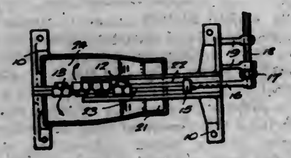
3. In a curtain fixture, the combination of a round hollow curtain rod having at each end an inwardly extending annular lip, supporting brackets for said rod each having a socket member adapted to receive an end of said rod, said socket member comprising a circular body and an apertured cap on the outer end of said body, and a snap hook in each of said socket members automatically engaging with the annular lip of said rod under an inward movement of the latter, said snap hook having a free end extension passed through the aperture of said cap by manipulation of which said hook may be disengaged from said lip.

1,456,215. PROCESS OF MANUFACTURING ACORN NUTS. HARRISON M. BRIGHTMAN, Columbus, Ohio, assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, all of Columbus, Ohio. Filed Oct. 28, 1921. Serial No. 510,987. 5 Claims. (Cl. 10—86.)



1. The herein described process of manufacturing acorn nuts which consists in first forming a tubular nut blank with one end reduced on a taper and with a thin walled extension beyond said reduced end, internally threading the blank throughout its length, and then spinning the extension inwardly to close one end of the nut.

1,456,216. FEEDING AND SORTING DEVICE. HARRISON M. BRIGHTMAN, Columbus, Ohio, assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, all of Columbus, Ohio. Filed Oct. 28, 1921. Serial No. 510,988. 2 Claims. (Cl. 10—165.)



1. A feeding and sorting device including a horizontally disposed feed trough, a plunger working within one end of the feed trough to force articles from the opposite end of the feed trough, a rib extending through the feed trough and beyond the last named discharge end thereof and presenting a bearing edge for the support of the articles centrally between the sides of the feed trough, an inclined feed plate having portions thereof disposed

at opposite sides of that portion of the rib beyond the discharge end of the trough to receive articles falling laterally from bothe sides of the rib, and a feed chute with which the lower portion of the feed plate connects.

1,456,217. SHAFT-STRAIGHTENING APPARATUS. HARRISON M. BRIGHTMAN, Columbus, Ohio, assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, all of Columbus, Ohio. Filed Nov. 28, 1921. Serial No. 518,246. 6 Claims. (Cl. 153—37.)



1. A shaft straightening apparatus including a revoluble holder through which the work passes, a series of adjustable work encircling members rotatable, and revoluble with, the said holder, and work feed means at opposite ends of the holder having simultaneously controlled reversing means as described.

1,456,218. CONVEYER APPARATUS. HARRISON M. BRIGHTMAN, Columbus, Ohio, assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, all of Columbus, Ohio. Filed Jan. 3, 1922. Serial No. 526,787. 6 Claims. (Cl. 212—95.)

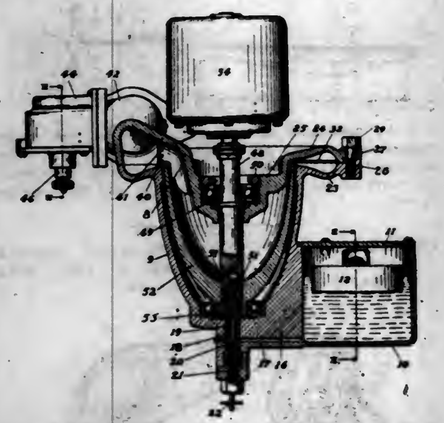


1. A conveyer apparatus including a horizontally movable elevated carrier having an article engaging member, and a flexible hoisting connection extending along the path of movement of the carrier, with which the carrier has movable engagement at spaced points and with which the said article engaging member has movable engagement between the said points of engagement of said carrier, said hoisting connection being anchored at one end adjacent to one end of the path of movement of the carrier, means for controlling the hoisting connection, located at its opposite end adjacent to the opposite end of the path of movement of the carrier, including winding means for varying the effective length of the hoisting connection and a brake for holding the same in adjusted position, and means extending along the path of movement of the carrier and manually shiftable at a plurality of points therealong for independently controlling action of said winding means and said brake.

1,456,219. CARBURETOR. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 10, 1919. Serial No. 276,169. 9 Claims. (Cl. 261—88.)

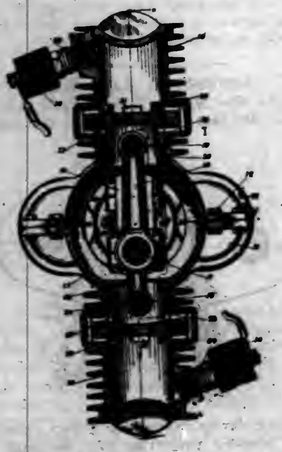
1. In a carburetor, a rapidly rotating element, means for producing a thin film of oil upon said rotating element, an annular hollow casing surrounding said rotating element and open towards the latter, the rapid movement of the rotating element throwing oil in the form of spray into said annular casing, a partition across said casing at one point, said casing having an air inlet on one side of said partition and an engine intake on the other side thereof.

4. In a carburetor, a rapidly rotating element, means for producing a thin film of oil upon said rotating element, an annular hollow casing surrounding said rotating element, and open towards the latter, the rapid movement of the rotating element throwing oil in the form of spray into said annular casing, a partition across said casing at one point, said casing having an air inlet on one side of said partition and an engine intake on the other side thereof, and having openings in its outer periphery in a line opposite the opening towards the rotating element.



9. In a carburetor, a horizontally rotating element, means for producing a thin film of oil upon said rotating element, a horizontal annular hollow casing surrounding said rotating element, and open towards the latter, the walls of said casing being arranged to provide a passage constructed towards the center in order to limit the sectional area of the passage while providing considerable radial distance for the centrifugal travel of spray thrown from said rotating element, said annular casing having air inlet openings along its outer periphery opposite said constricted passage and an engine intake.

1,456,220. TWO-CYCLE ENGINE FOR BICYCLES. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 29, 1919. Serial No. 300,655. 18 Claims. (Cl. 180—33.)



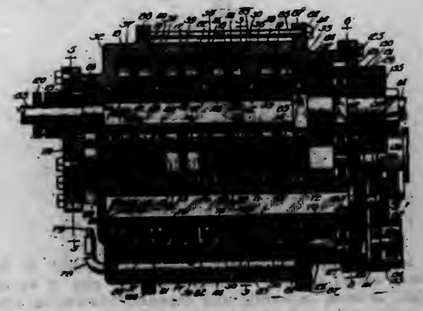
1. In a motor driven bicycle, a fixed shaft, a gas engine having revolving cylinders and a revolving crank case mounted to revolve around said shaft, a wheel hub also mounted to rotate around said shaft, and a train of gears, through which said hub is adapted to be driven by said engine, said train of gears being enclosed within said crank case.

1,456,221. WINDSHIELD. FRED EUGENE BROWN, Indianapolis, Ind., assignor to Zenite Metal Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 22, 1920. Serial No. 367,972. 5 Claims. (Cl. 296—92.)



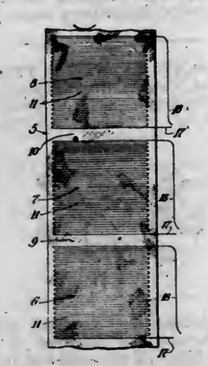
1. In a wind shield, a main body, a segmental bearing-member movably carried on said body, a trunnion member journaled in and movable with said bearing-member and contacting with said main body, and a clamping member arranged to act upon said bearing member to clamp the same upon the trunnion member and the trunnion member against the main body.

1,456,222. ROTARY ENGINE. THOMAS CHARLTON, Chicago, Ill., assignor, by mesne assignments, to George M. Studebaker, South Bend, Ind. Filed Dec. 30, 1918. Serial No. 268,860. 15 Claims. (Cl. 121—71.)



1. In a rotary engine, the combination of a power shaft, a plurality of driving disks thereon, a piston member on the peripheral portion of each driving disk and having piston portions extending from both of the faces thereof, an abutment shaft extending parallel to the power-shaft, a pair of abutment disks on the abutment shaft corresponding to each driving disk, the abutment disks of each pair embracing the peripheral portion of the corresponding driving disk beween their peripheral portions, and extending towards the axis of the driving shaft as far as the corresponding piston portion, there being a gate notch in each abutment disk for the corresponding piston portion, each gate notch aforesaid extending toward the axis of the abutment shaft radially as far as the outer face of the corresponding piston block, and a casing for the driving disks, pistons and abutment disks, said casing comprising a series of sections serving to provide circular piston chambers for the accommodation of the piston members in their circular travel, and also serving to provide a longitudinally extending bearing chamber concentric with the driving shaft, bearings in said chamber for supporting the driving shaft intermediate the driving disks, the abutment disks of each pair extending across the corresponding piston chambers, and serving to divide them at a point lying within the plane of the shafts, means causing the two shafts to rotate in synchronism, and for bringing the notches of the abutment disks into said plane at the time of arrival of the corresponding pistons therein, there being a port in the wall of each piston chamber at each side of said plane, valve mechanism in conjunction with said ports, and means for actuating said valve mechanisms in synchronism with the rotations of the power shaft.

1,456,223. ELECTRICAL BLANKET AND THE LIKE. WILLIAM F. CRADDICK and CHARLES M. UHLIG, Chicago, Ill., assignors to Vit-O-Net Mfg. Co., Chicago, Ill., a Corporation of Washington. Filed Apr. 7, 1922. Serial No. 550,449. 9 Claims. (Cl. 219—48.)

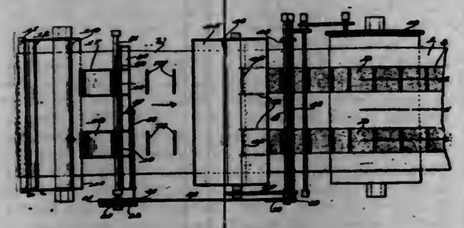


1. As a new article of manufacture an electric blanket or the like comprising a fabric and facings therefor, said fabric consisting of body warps, border warps at each side, wefts, and an insulated wire, the wefts being woven throughout the entire width of the fabric from one extreme end to the other, and from one extreme selvage to the other extreme selvage, and the wire being woven only within the body warps and terminating at points within both ends of the fabric, whereby there is produced a fabric consisting of a central portion containing insulated wire woven into the fabric together with an integral continuous border of wireless fabric completely surrounding the wire containing body portion, the sheets of facing material lying against the faces of the fabric and reaching over the border portion, and a line of stitching joining the sheets of facing material to the wireless border portion, substantially as described.

1,456,224. METHOD AND MACHINE FOR MAKING PREPARED ROOFING. ANDREW E. CURRIER, Millis, Mass., assignor to Baker Rubber Cement Co., Boston, Mass., a Corporation of Massachusetts. Filed May 6, 1921. Serial No. 467,329. 4 Claims. (Cl. 91—67.9.)

2. The herein described method which consists in applying cementitious binder to a continuously moving backing web, applying comminuted material at intervals in the length of the web and also at intervals transversely thereof, and severing the web longitudinally at

intervals widthwise thereof to produce a plurality of roofing strips each having a longitudinally extending surfaced portion and an unsurfaced portion coated with binder, at one side of such surfaced portion.



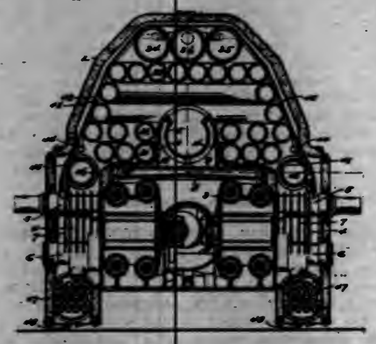
3. Apparatus of the kind described comprising means for continuously advancing a web of felt or the like, means for applying cementitious binder to the entire surface of the web, means for depositing comminuted material upon the web at predetermined intervals both lengthwise and widthwise thereof as markings to constitute a given design, and means for continuously applying surfacing material of another color over continuously extending lengthwise portions of the web, while leaving adjacent lengthwise extending portions unsurfaced but coated with such cementitious binder.

1,456,225. SEPARATOR FOOT FOR PRESS FEEDERS. JOHN G. DIXON, Chicago, Ill., assignor of one-half to Gustave T. Hultman, Chicago, Ill. Filed Jan. 21, 1922. Serial No. 530,760. 7 Claims. (Cl. 294—64.)



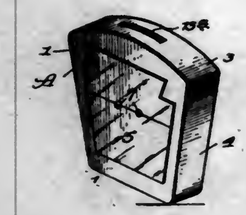
1. The combination with a vertically reciprocable separator foot of the character described, of means carried by said foot for adjusting the extent of the suction area in the sole thereof.

1,456,226. STEAM-POWER PLANT. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed June 19, 1919. Serial No. 305,285. 17 Claims. (Cl. 60—27.)



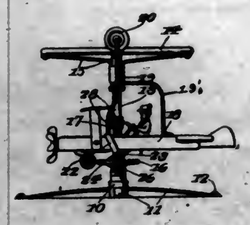
1. The combination with a steam boiler casing, of a steam engine having cylinders and a crank case arranged within said boiler casing, the engine cylinders being in direct thermal contact with the gases of combustion in said boiler casing.

1,456,227. SAVINGS BANK. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1921. Serial No. 478,625. 16 Claims. (Cl. 232—4.)



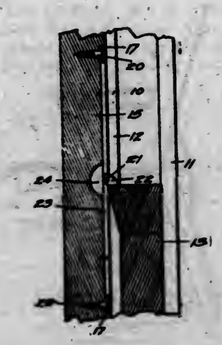
1. A savings bank comprising a pair of open-sided casing sections, the outer section having a lateral peripheral flange adapted to receive the inner section, a locking member secured to the inner surface of the main wall of one of the sections, a co-acting movable locking member secured to the inner surface of the main wall of the other casing section, said last mentioned section having a key-receiving perforation through its main wall through which a key may be operated to actuate said movable locking member, and coin-admission means extending thru the peripheral flange of the outer casing section.

1,456,228. MERRY-GO-ROUND. JOSEPH A. FRANKLIN, Rensselaer, N. Y. Filed May 17, 1921. Serial No. 470,318. 1 Claim. (Cl. 46—27.)



A toy comprising a post, radial legs carried by the lower end of the post for supporting the post in an upright position, upwardly and outwardly extending arms on the upper end of the post, a horizontally disposed circular track secured to the last-named arms and encircling the upper end of the post, a rotatable collar on the post, an arm carried by the collar and extending radially away from the post, a car carried by the outer end of the said arm, a vertical arm carried by the car, a grooved wheel on the upper end of the vertical arm engaged on the circular track, a transverse crank shaft carried by the car and extending to a point adjacent the lower end of the post, a gear fixed on the post, a gear on the crank shaft engaging said post gear, and an angle arm loosely connected with the post and the shaft adjacent the gears thereof.

1,456,229. WINDOW STOP. LESLIE FAY, Des Moines, Iowa. Filed Feb. 9, 1922. Serial No. 535,215. 2 Claims (Cl. 292—202.)



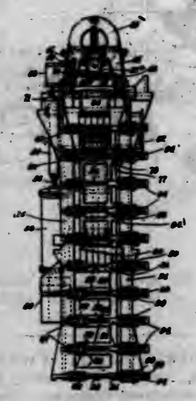
2. In combination with a window frame and an upper and lower window sash slidably mounted relative to each other in said window frame, means for limiting the amount of movement of the window sashes relative to each other, comprising a finger pivotally mounted on one of said window sashes, a projection on said finger adjacent to its pivot, said finger being capable of being swung on its pivot to position where the projection will be received in a recess formed in the sash having the finger thereon, said projection being arranged so that when in the recess it permits the free movement of the window sashes and when not in the recess being interposed in the path of one of the window sashes for limiting its movement, the finger being arranged to swing on its pivot only when the window sashes are in their closed position.

1,456,230. SIGN. SAMUEL H. FURRY, Lancaster, Ohio. Filed May 16, 1921. Serial No. 470,118. 3 Claims. (Cl. 40—125.)



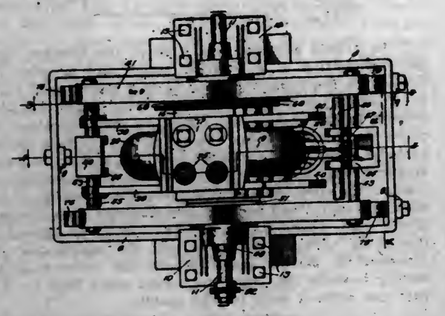
1. A sign comprising a rectangular open frame, a foraminous sheet arranged to close the opening formed by said frame, letters carried by each side of said sheet to provide each side with a caution indication, means for illuminating said indications, and electrically operated audible and visual signaling devices supported by the frame for directing attention to said indications, said means for illuminating said indications being independent of said letters, said sheet having openings for said signaling devices.

1,456,231. CASTING APPARATUS. JOHN H. GOSS and EDWARD L. WOLFF, Waterbury, Conn., assignors to Scovill Manufacturing Company, a Corporation of Connecticut. Filed Mar. 6, 1917. Serial No. 152,536. 34 Claims. (Cl. 22—57.)



13. In metal casting apparatus, and in combination a support, a bracket pivotally carried by said support, and a plurality of cooperating mold sections pivotally secured to said bracket.

1,456,232. ROTARY ENGINE. AMBROSE EVERTS GREENE, Corning, Calif. Filed Apr. 17, 1919. Serial No. 290,811. 17 Claims. (Cl. 123—43.)

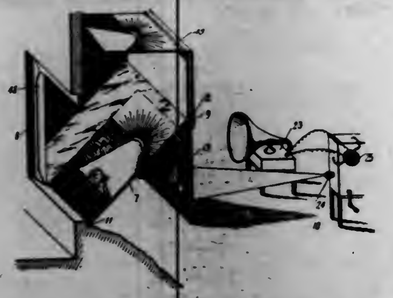


1. In combination, a shaft; a member fixed on said shaft; cylinder heads on opposite sides of said member; an engine cylinder attached to each cylinder head; a lever pivoted on said shaft; pistons carried on said lever and disposed in said cylinders; a lever mounted eccentrically to said shaft; connecting links connecting the last-mentioned lever with the first mentioned lever and said member adapted to effect relative oscillatory movements between the cylinder heads and pistons; and counterweights on said links, member and first-mentioned lever.

1,456,233. ILLUSION APPLIANCE. LOUIS E. HAMMOND, Hackensack, N. J., and HERMAN A. SMITH, Yonkers, N. Y.; said Hammond assignor to Edgar J. Marston, Greenwich, Conn. Filed June 6, 1919. Serial No. 302,152. 9 Claims. (Cl. 88—24.)

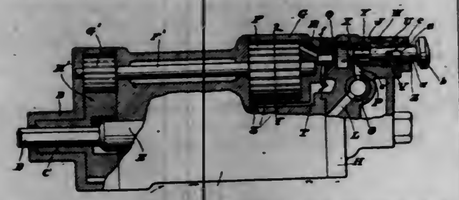
4. In an illusion appliance, the combination with a translucent screen facing the spectators, of means for

projecting moving pictures directly on said screen, a scenic background disposed in front of and above said screen, means for concealing said background from the



direct vision of the spectators, and means for showing said background to be apparently behind said moving pictures.

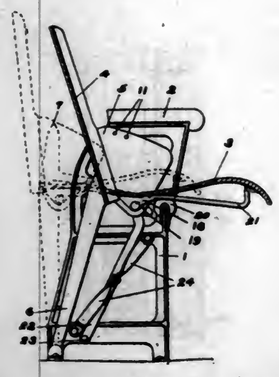
1,456,234. HAND-REGULATING VALVE FOR ROTATION MOTORS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 23, 1922. Serial No. 545,991. 3 Claims. (Cl. 251—137.)



2. In a fluid actuated rock drill of the hammer type, the combination of a rotation motor and a valve for controlling the supply of fluid to said motor, said valve comprising a casing, a cylindrical valve cage removably secured in said casing and affording communication between the fluid supply and the motor, a valve stem having an inner valve head, a reduced neck and a shank movable longitudinally in said cage, a spring for normally retracting the stem and a stop limiting the movement of the stem, the valve head being of less diameter than the bore of the cage, whereby fluid may continually be applied to the motor through the valve and the supply may be increased by moving the stem and the valve head inwardly towards the motor to permit more fluid to flow past the reduced neck on the spindle.

1,456,235. CHAIR. MERRILL W. HARD, Detroit, Mich., assignor of one-half to W. Lewis Mack, Chicago, Ill. Filed Aug. 18, 1919. Serial No. 318,178. 10 Claims. (Cl. 155—115.)

1. The combination with side pedestals, of a seat and a back, standards pivotally mounted on said pedestals and having tapered bearing portions at their upper ends and forwardly projecting slotted arms, pins on said pedestals engaging the slots of said arms, side members on which said back is rigidly mounted, provided with bearing plates at their upper edges having bearing recesses coacting with said bearing portions of said standards, pins on said standards engaging segmental slots in said side members whereby said members are retained on said standards, pivots for said seats disposed on said side members in front of their bearing point on said standards, links pivoted on said pedestals in front of said standards and engaging said seat pivots, seat supporting rollers on said pedestals, and channeled ways on the under side of said seat traveling on said rollers, said ways being forwardly inclined so that weight on the seat tends to carry the seat forward, and a support for the forward end of the seat.



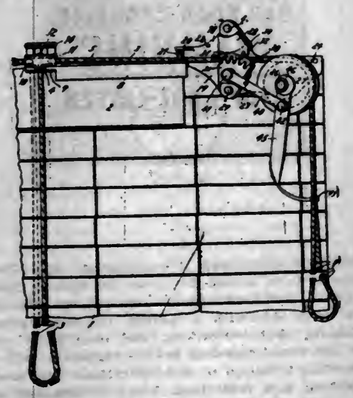
5. A chair comprising side pedestals, standards pivotally mounted at their lower extremities on said pedestals, a seat having its rear portion suspended from the upper extremities of said standards and its forward portion resting on said pedestals, a back mounted on said seat, and means for limiting the movement of said standards relative to said pedestals.

1,456,236. PROTECTOR FOR ENGINE HOODS. BERNHARD HESS, Forest Park, Ill. Filed Feb. 9, 1920, Serial No. 357,332. Renewed Dec. 15, 1922. 7 Claims. (Cl. 180—69.)



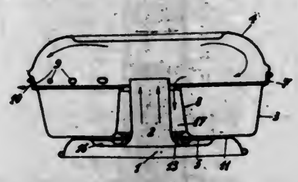
1. In combination with the wall of an engine hood having perforations, a protector plate secured to the inner surface of said wall and covering said perforations, and detachable clamps extending through said perforations and removably holding said plate to said wall.

1,456,237. CORD-GRIPPING APPLIANCE. AZEL C. HOUGH, Janesville, Wis. Filed June 10, 1921. Serial No. 476,481. 12 Claims. (Cl. 188—65.)



1. An appliance, of the class described, comprising a supporting member, segments pivotally connected with said member and having intermeshing teeth, said segments being provided with arcuate cord-gripping jaws eccentric to said teeth, and means to prevent the cord from getting between said teeth.

1,456,238. BAKING DEVICE. MILAN IVANCIC, deceased, late of Kilchberg, Switzerland, by Alma Ivancic, administratrix, Kilchberg, Switzerland. Filed Jan. 8, 1921. Serial No. 435,849. 1 Claim. (Cl. 53—6.)



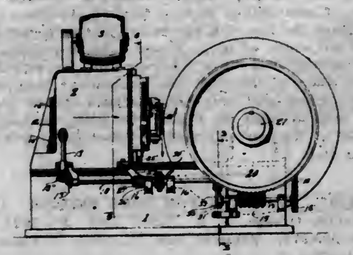
A baking device comprising a pan having an opening in the bottom and an inner wall rising from the bottom and around said opening, a lid on the pan, and a base on which the pan is mounted, said base having a tubular projection passing through the said bottom opening of the pan, said pan and base being so constructed and arranged as to carry off the gases from the interior of the pan.

1,456,239. TOY. EDGAR R. JONES, Kansas City, Mo. Filed July 28, 1919. Serial No. 313,737. 2 Claims. (Cl. 46—45.)



2. In a device of the character described, a handle, a tractor wheel mounted directly upon the forward end of said handle, a second wheel mounted directly on the handle at the rear of the tractor wheel, a single belt running around said wheels to transmit motion from the tractor wheel to said second wheel, radial arms fixed to the second wheel to rotate therewith, figures fixed to said radial arms, a connecting rod pivotally connected at its forward end to the tractor wheel, a bracket fixed to the rear end of said connecting rod and slidably engaging the handle, and a figure associated with the connecting rod.

1,456,240. GEAR-CUTTING MACHINE. FRANK WARDEN JUAY, Milwaukee, Wis. Filed June 9, 1921. Serial No. 476,188. 10 Claims. (Cl. 90—9.)



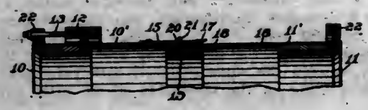
2. A gear cutting machine comprising a rotatable gear-blank carrier, a pair of alternately reciprocative cutters, guides therefor arranged to direct the cut upon the blank transversely thereof and in a line advanced relative to the line defining the walls of the teeth, whereby each cut across the face of the blank is uniform throughout, and related driving means between the cutter and blank carrier for imparting movement to both during a cutting operation.

1,456,241. HOLDER FOR CRAYONS OR THE LIKE. EMIL KROUTL, Budweis, Czechoslovakia. Filed Aug. 25, 1921. Serial No. 495,440. 3 Claims. (Cl. 120—17.)



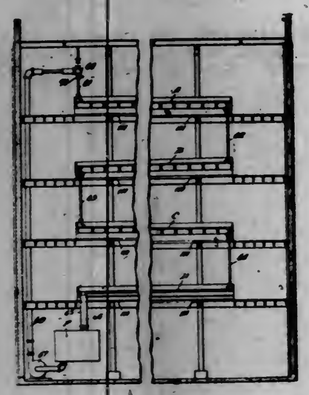
3. A holder for an adjustable crayon or the like, comprising in combination an inner sleeve provided with a longitudinal slot, an outer sleeve slidably located round the said inner sleeve, a toothed rod slidably arranged within the inner sleeve, the forward end of the toothed rod being reduced in cross-section and the adjustable crayon being adapted to rest against the said reduced forward end, a spring catch on the inner sleeve and a second spring catch on the outer sleeve adapted to engage the teeth of the toothed rod, a spiral spring located in the inner sleeve one end of which is connected to the rear end of the toothed rod, whilst its other end is secured to a knob inserted into the rear end of the said inner sleeve, the said knob being furnished with a pin extending through a recess in the outer sleeve, whereby when rotating the outer sleeve with respect to the inner sleeve the toothed rod is disengaged from the hold of the catches.

1,456,242. DRUM AND TRAP COMBINATION. ULYSSES G. LEEDY, Indianapolis, Ind., assignor to Leedy Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 5, 1921. Serial No. 490,070. 5 Claims. (Cl. 84—411.)



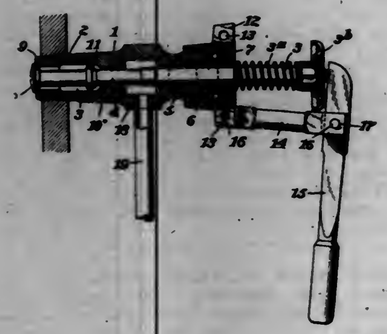
1. A bass drum comprising telescopic shells separable from one another to expose the interior of each shell throughout its entire diameter, each carrying a drum head and independent tensioning means, and separable means for holding said telescopic sections in drum forming relationship with each other.

1,456,243. FLUSHING SYSTEM FOR STARCH TABLES. ADOLPH W. H. LENDERS, Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, a Corporation of Delaware. Filed Dec. 24, 1917. Serial No. 208,636. 3 Claims. (Cl. 127—23.)



1. Method of removing starch from settling tables which consists in maintaining a quiet flow of a flushing liquid over the upper surface of the starch to gradually thin down the starch body until it has been removed.

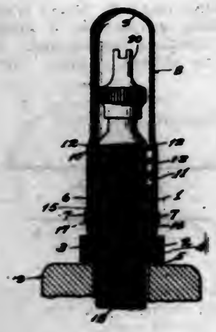
1,456,244. VALVE. EDWARD S. MCGEE, Rock Hill, S. C. Filed Dec. 2, 1921. Serial No. 519,551. 6 Claims. (Cl. 251—27.)



6. A valve including a body having an outlet, a valve stem reciprocable therethrough, two valve surfaces carried by said stem, two valve seats in said body, the distance between the seats being greater than the distance between the valve surfaces, both valve seats and surfaces being on the same side of the valve outlet.

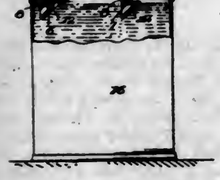
1,456,245. DUST CAP. EDWARD B. MANG, Los Angeles, Calif. Filed Mar. 14, 1919. Serial No. 282,744. 5 Claims. (Cl. 152—12.)

2. In combination with a nipple having lateral lugs, a cap provided with angular slots for said lugs; said slots being provided with notches to receive the lugs; said cap being provided with a spring chamber, and a coil spring in the cap to engage the nipple to move the



cap to seat the lugs in said notches, said spring being held sufficiently tight in the chamber to prevent accidental dislodgment therefrom.

1,456,246. CAN OPENER. GEORGE E. MARSHALL, San Diego, Calif. Filed July 1, 1921, Serial No. 481,817. Renewed Mar. 30, 1923. 1 Claim. (Cl. 220—51.)

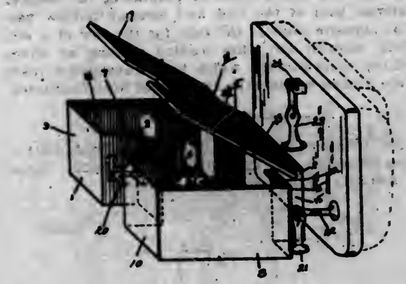


A can opener comprising a flat elongated body, and blades having reduced attaching shanks connected to said body adjacent the ends of the same, said blades being formed with edges arranged at right angles to the plane of the body and with diagonally extending can cutting edges, said cutting edges terminating laterally of the edges of said shanks thereby forming shoulders adapted to engage the top of a can to retain the opener in position, the width of each of said attaching shanks being substantially less than the opening formed by each blade whereby the body may be moved longitudinally when applied, said body constituting a closure extending over said openings for closing the same, the body being formed at its rear end with an offset defining a handle and a stop.

1,456,247. SEAT BOX FOR FORD SEDANS. HORATIO MILLER, Orange, N. J. Filed Sept. 28, 1921, Serial No. 503,976. Renewed Mar. 27, 1923. 1 Claim. (Cl. 224—29.)

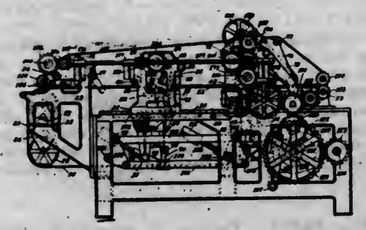
A seat box, having two corner recesses on one side thereof and a recess located centrally on the other side

thereof, said recesses extending from the top to the bottom of the box, a latch in one of said recesses,



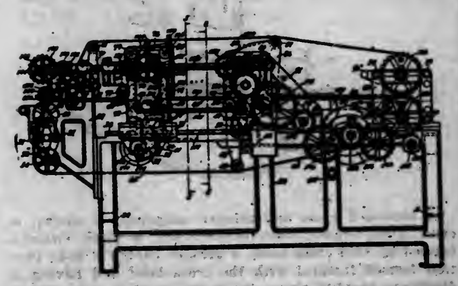
normally extending across said recess, and adapted to engage a leg standing upright therein, said latch being mounted to swing to release said leg.

1,456,248. MACHINE FOR FORMING BOX BLANKS. CHARLES L. MOYER, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1921. Serial No. 465,433. 26 Claims. (Cl. 93—36.)



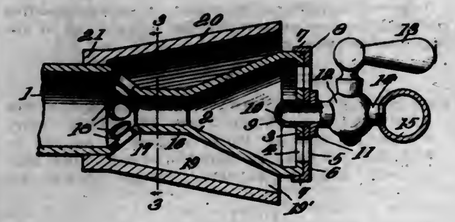
1. In a blank folding machine of the character described, the combination with a frame, of die mechanism mounted thereon for breaking the corners of the blank, upper and lower belts for conveying the blank to and beyond the field of operation of said die mechanism, and means for arresting the travel of the blank while said die mechanism is operating thereon.

1,456,249. MACHINE FOR FORMING BOX BLANKS. CHARLES L. MOYER, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1922. Serial No. 527,218. 22 Claims. (Cl. 93—36.)



1. In a blank folding machine of the character specified, the combination with a frame, of mechanism including swinging folding devices mounted thereon for bending and breaking the corners of the blank, means for conveying a blank into the field of operation of said bending and breaking mechanism, means for arresting the travel of the blank while said mechanism is operating thereon, and means for discharging the blank from the field of operation of said mechanism.

1,456,250. GAS AND AIR MIXER. CHARLES MUNSNER, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Jan. 3, 1922. Serial No. 526,821. 6 Claims. (Cl. 158—118.)



1. An air and gas mixer for gas burners, comprising an outwardly enlarged mixing chamber 2, provided at its outer end with an inwardly extending gas jet much shorter than the length of the mixing chamber, the outer end of the mixing chamber provided with air-inlet openings, a reduced portion 16 having its wall enlarged inwardly and provided with air-inlet openings, the outwardly enlarged wall formed into a mixing tube for the gas and air passing therethrough.

1,456,251. SHOE. LUKE E. MURPHY, Milwaukee, Wis. Filed Apr. 25, 1922. Serial No. 556,528. 1 Claim. (Cl. 24—140.)

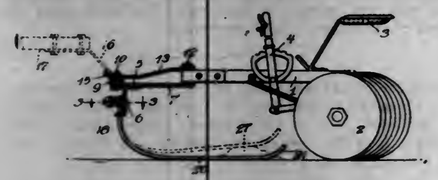


The combination of a shoe upper having a pair of spaced flies formed of an outer and an inner ply, a series of opposed hooks projecting into the space between the flies and having shanks positioned between the plies, and securing means extending through the shanks and through the inner ply and covered by the outer ply.

1,456,252. PROCESS OF COATING METALS WITH METAL PHOSPHIDES. SAMUEL PEACOCK, Wheeling, W. Va., assignor to Wheeling Steel & Iron Company, Wheeling, W. Va., a Corporation of West Virginia. Filed June 7, 1922. Serial No. 566,658. 5 Claims. (Cl. 148—6.)

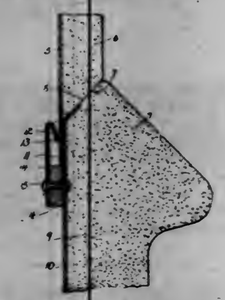
1. The process of coating metal shapes with protecting films which consists in making a mixture containing a phosphate compound and carbon mixed a viscous vehicle to form a paint; applying said paint to the metal surfaces to be protected; and heating said surfaces to a temperature sufficient to form a film containing a phosphide of the coated metal, substantially as described.

1,456,253. SPRING SUPPORT FOR HARROWS, ETC. HENRY PETERSEN, Mount Auburn, Iowa. Filed Apr. 20, 1922. Serial No. 555,718. 10 Claims. (Cl. 280—14.)



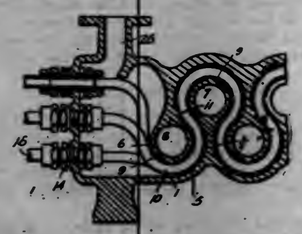
1. In an agricultural implement, a spring-supporting resilient wheelless support for the forward end of the implement-carrying member.

1,456,254. GAS-TIGHT JOINT FOR BOILER CASINGS REMOVABLY MOUNTED UPON FIREPOTS. JOHN PIERCE, Jr., Norwalk, Conn., assignor of one-half to Dickinson S. Cummings, Stamford, Conn. Filed Mar. 16, 1923. Serial No. 625,497. 2 Claims. (Cl. 110—1.)



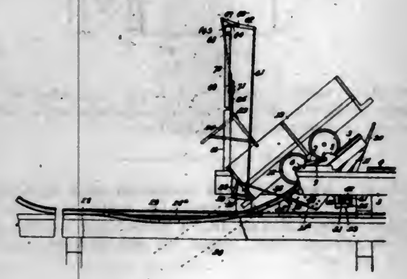
1. The combination with a firepot having a sheet-metal shell and a lining, of a removable boiler-casing comprising a sheet-metal shell, and a lining below the lower edge of which the shell extends to form a sealing-flange adapted to make close contact with the exterior surface of the upper edge of the firepot-shell, and an inwardly and downwardly projecting pressure-flange carried by the firepot and adapted to exert a constant inward pressure upon the said flange when the boiler-casing is applied to the firepot.

1,456,255. APPARATUS FOR HEAT EXCHANGE. EDWARD SHAW, Toronto, Ontario, Canada. Filed Jan. 25, 1918. Serial No. 213,766. 4 Claims. (Cl. 257—235.)



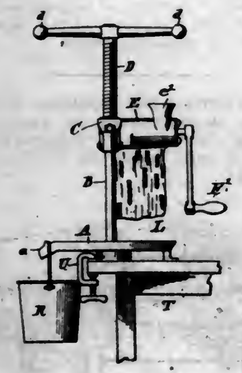
1. Apparatus for transferring heat from one fluid to another comprising a tube having a plurality of reverse bends formed longitudinally thereof without straight connecting portions whereby fluid flowing through the same at high velocity flows always in curved paths and is caused to exert a violent scouring action alternately against opposite sides of the walls of the tube, and a casing, in which the tube is enclosed, paralleling the bends of the exterior wall of the tube and forming narrow passages at opposite sides of the tube for the flow of a second fluid, whereby any films tending to form at either side of the walls through which heat transference takes place are broken up and the transfer of heat facilitated.

1,456,256. CAR-DUMPING APPARATUS. CLEMENT C. SMITH, Wheeling, W. Va. Filed Jan. 21, 1922. Serial No. 530,817. 12 Claims. (Cl. 214—47.)



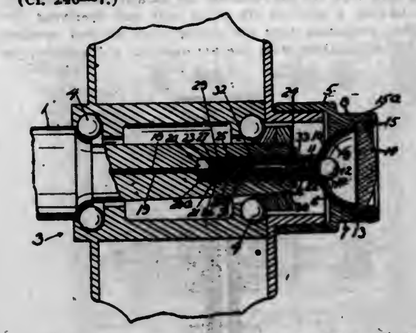
1. A car-dumping mechanism comprising a platform carrying rail sections for receiving a car thereon, said platform being rockable to and from inclined car-dumping position, and devices for chocking the wheels of cars surmounting said rail sections, said devices being shiftable from operative position only when the dumping position of the platform is assumed and being returnable to operative position with return movement of the platform.

1,456,257. PRESS. FRANCIS E. STEVENSON, Mount Gilead, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed June 6, 1921. Serial No. 475,247. 1 Claim. (Cl. 100—44.)



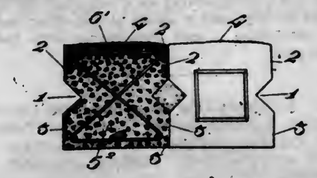
A combined press and grinder comprising a saucer, a cross head, connections therebetween, a press element carried by said cross head, a grinder having a body portion formed integral with the cross head and having a discharge opening above the saucer, and means carried by the cross head and grinder body for suspending a receptacle for ground material therefrom.

1,456,258. LATERAL DIRIGIBLE LIGHT FOR VEHICLES. CARLTON E. STONER, Long Beach, Calif. Filed Apr. 20, 1921. Serial No. 462,938. 4 Claims. (Cl. 240—7.)



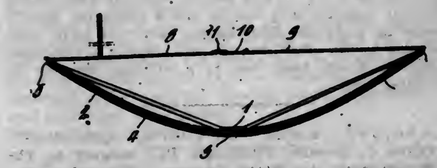
1. The annular hub cap for vehicle wheels set forth, threaded onto the hub and having a recess and a countersunk portion; a light projecting device in said recess; a lens seated in said counter sunk portion; and means to hold said lens in mounted position.

1,456,259. PAVING STONE. TAMEKICHI ITO, Tokyo, Japan, assignor of one-half to Kwatsuji Ikeda, Tokyo, Japan. Filed Dec. 31, 1920. Serial No. 434,245. 2 Claims. (Cl. 94—12.)



1. In a pavement, a plurality of stones each including a rectangular body having a V-shaped horizontal groove arranged in each longitudinal side and having the portions of the longitudinal sides above the grooves reduced, the lower portions of the longitudinal sides of each stone being adapted to intimately contact with the corresponding portions of the adjacent stones while the grooves and reduced sides are positioned opposite each other to form a draining passage, and the upper surfaces of the body of each stone being curved convexly, substantially as and for the purposes set forth.

1,456,260. COLLAPSIBLE KITE. RUSSELL A. TROMBLEY, Akron, Ohio. Filed May 26, 1921. Serial No. 472,690. 2 Claims. (Cl. 244—22.)



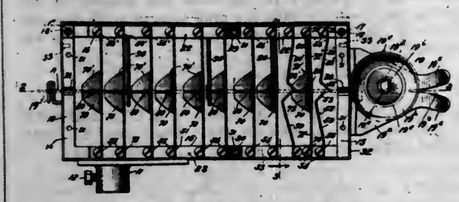
2. A collapsible kite comprising a vertical stick having a transverse connector near its upper end, said connector being provided in its opposite ends with sockets, a cross piece composed of two comparatively short sticks having their inner ends removably received in said sockets and being provided at their outer ends with holes, a covering for the sticks, a marginal cord connected to said covering and said vertical stick, and relatively short pieces of cord passing through the aforesaid holes, being connected at their outer ends to said first named cord and being detachably connected together at their inner ends.

1,456,261. YARN CLEANER. HENRY E. VAN NESS, Elmira, N. Y. Filed Mar. 29, 1922. Serial No. 547,596. 41 Claims. (Cl. 28—66.)



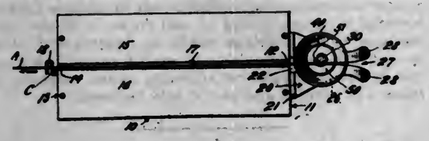
1. In a cleaner for removing particles from a traveling yarn, a blade having a portion of its edge adjacent to the yarn and resiliently held to permit free vibration of said portion of its edge, so that the blade is set into vibration by the impingement of particles projecting from the yarn and brushes particles from from the yarn by its vibration.

1,456,262. YARN CLEANER. HENRY E. VAN NESS, Elmira, N. Y. Filed June 8, 1922. Serial No. 566,722. 12 Claims. (Cl. 28—66.)



1. A yarn cleaner for removing particles from a traveling yarn, comprising an open frame having aligned recesses in its ends to permit the passage of the yarn longitudinally across the frame, a cover on said frame, and transverse deflecting blades yieldably mounted on said frame having their inner edges adjacent to the yarn and their upper edges spaced upwardly from the yarn and close to the lower surface of said cover.

1,456,263. TENSION DEVICE. HENRY E. VAN NESS, Elmira, N. Y. Filed July 20, 1922. Serial No. 576,249. 11 Claims. (Cl. 242—150.)



1. A tension device, comprising the combination of a frame containing aligned recesses in its ends to permit the passage of the yarn longitudinally across the frame, a plate projecting outwardly from the front end of the frame at the level of the bottoms of said recesses, said plate containing in its outer end an entrance recess aligned with the recesses in the frame, a stud projecting

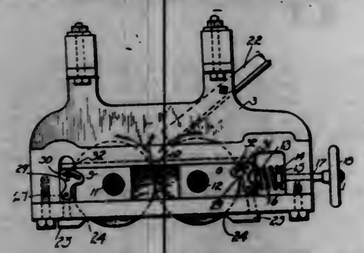
upwardly from said plate at one side of the center line of said recesses, and a rotary tension member seated on said plate about said stud and having a disc-shaped bottom and a flaring flange projecting upwardly and outwardly from the periphery of the bottom and extending over the inner end of said entrance recess and above the top of the frame.

1,456,264. SAFETY SNAP HOOK. HARRY BILLMEYER, Washingtonville, Pa. Filed Apr. 5, 1922. Serial No. 549,673. 2 Claims. (Cl. 24—233.)



1. A snap hook comprising a body having a ring loop with a socket in the end thereof, a leaf spring carried by the body and having its free end terminating adjacent to said socket and adapted to be depressed to contact with the inner face of the body, and a bell-crank lever having arms substantially at right angles to each other and pivotally mounted in the socket, the outer arm being adapted to normally extend outwardly from the socket and substantially parallel to the body and to rest upon the free end of the spring to depress the same, the inner arm of the lever extending across the space between the socket and the body, said lever being rockable to a position where the outer arm, bearing against the spring, forces the free end thereof against the inner face of the body and the inner arm extends substantially parallel to the free end portion of the spring and contacts with the ring loop to guide the ring into the space between said inner arm and the free end portion of the spring.

1,456,265. ATTACHMENT FOR BALING PRESSES. EDWARD BROOKS, Atlanta, Ga. Filed Dec. 22, 1919. Serial No. 346,442. 2 Claims. (Cl. 100—25.)



1. A rotary feeding and packing device comprising a frame, a rotatable roller journaled in said frame, means for scraping said roller, a pair of slidable bearings mounted in opposite sides of said frame, a second roller journaled in said bearings, means for rotating said rollers, an oscillating scraper for said second named roller carried by said bearings, and adjusting means connected between said scraper and one of said bearings.

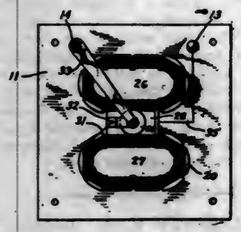
1,456,266. ATOMIZING OIL BURNER. RYERSON CRANE, Chicago, Ill., assignor to Ryerson Crane, Inc., a Corporation of Illinois. Filed Apr. 10, 1922. Serial No. 551,021. 1 Claim. (Cl. 158—76.)

An oil burner comprising a casing having two threaded aligning openings, one on each side, to admit air and oil respectively; a cross wall within the casing separating the two openings; said casing having two other aligning openings thru its ends at right angles to the air and oil openings; an oil conducting pipe extending thru the cross wall into the oil opening; an axially adjustable air pipe having a port at its outer end and overlying the oil pipe extending into the casing thru an end opening and communicating with the air opening, a check nut on



said air pipe to hold it in adjusted position and a valve stem threaded into the other end opening aligning with the air and oil pipes and extending into the oil pipe, having a valve on its inner end to close a nozzle at the end of the oil pipe operating as a valve for the discharge end of the air pipe and a nozzle at the outer end of the air pipe containing a port cooperating with the nozzle of the oil pipe.

1,456,267. VARIOMETER. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 17, 1922. Serial No. 537,354. 9 Claims. (Cl. 171—119.)

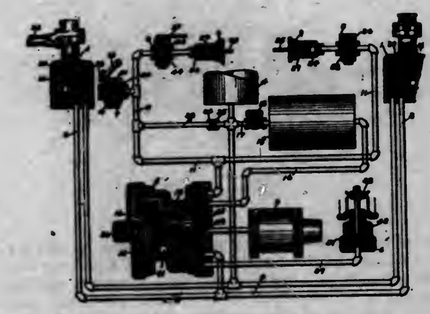


1. A variometer coil member comprising an insulating plate having a central arm portion with extended slotted heads at opposite ends thereof and a conductor spirally wound in polygonal form zig-zag back and forth from one side to the other through said slots in a righthand direction on one head, and in a lefthand direction on the other head.

1,456,268. SAFETY CAR-CONTROL EQUIPMENT. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 8, 1921. Serial No. 476,072. 4 Claims. (Cl. 303—6.)

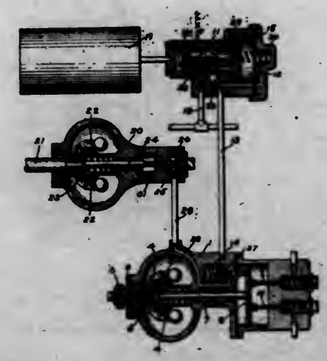
1. The combination with a straight air brake equipment including a straight air brake valve, a straight air pipe, a brake cylinder, and a source of fluid under pressure, of a reservoir adapted to be charged from said source,

an emergency valve device having a piston subject to the opposing pressures of said source and the reservoir and a valve adapted to be manually operated by a passen-



ger for venting fluid from one side of and thereby operating said emergency valve device to supply fluid from said reservoir to the brake cylinder.

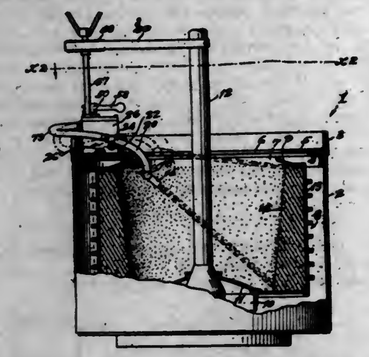
1,456,269. AUTOMATIC SPEED-CONTROL DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 15, 1921. Serial No. 477,847. 4 Claims. (Cl. 303—21.)



1. In a train speed control apparatus, the combination with a main speed governor device for determining the speed limit of the train, of an application valve device operated by a variation in fluid pressure for effecting an application of the brakes and an auxiliary speed governor device having a valve operative at a predetermined train speed for varying the fluid pressure on said application valve device.

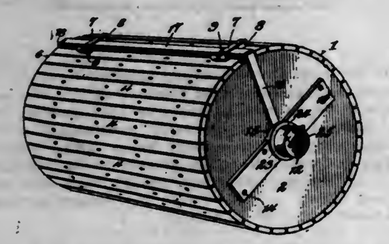
1,456,270. SUGAR-WASHING AND WATER-MEASURING DEVICE. WILLIAM WALTER HARTMAN, Los Angeles, Calif. Filed May 19, 1919. Serial No. 298,824. 34 Claims. (Cl. 210—67.)

21. In an apparatus for washing sugar comprising a centrifugal basket having therein a wall of sugar, and a gyrating centrifugal shaft for rotating said basket; a nozzle for spraying the sugar in said basket, actuating means for moving said nozzle, means constituting a driv-



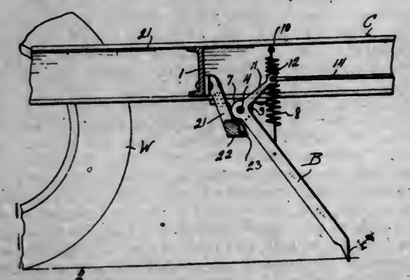
ing connection between said actuating means and said centrifugal shaft, and means for supplying a liquid wash to said nozzle.

1,456,271. ATTACHMENT FOR WASHING MACHINES. FRED HENSON, St. Louis, Mo. Filed Apr. 21, 1921. Serial No. 463,137. 9 Claims. (Cl. 68—18.)



1. In a washing machine, a cylinder for containing articles to be washed, an axial support for the cylinder with a non-circular passage therein, driving means for the cylinder movable into and out of the passage, and obstructing means for the driving means movable into and out of the passage.

1,456,272. THEFT-PREVENTIVE DEVICE. ANDREW T. HOLDER, San Francisco, Calif. Filed Oct. 11, 1920. Serial No. 416,179. 1 Claim. (Cl. 188—31.)



The combination with a vehicle chassis, of a dog pivotally depending from and supported from the side of the chassis for swinging movement in a vertical direction, said dog when lowered extending forwardly and down-

wardly and provided with a sharpened nose to engage with the ground to prevent forward movement of the vehicle, tensioning means for holding the dog normally elevated on its pivot, means for locking the dog in a lowered position, and an arm depending from and fixed to the side of the chassis and extending forwardly and terminating in a head at its lower end positioned substantially beneath the pivot of the dog, said head constituting an abutment for the dog to prevent the dog passing beyond a vertical center, the dog engaging face of the head having a notch into which the dog at a point below its pivot engages, the opposed walls of the notch acting to prevent lateral distortion of the dog, when the dog is moved suddenly toward the ground.

1,456,273. DISPLAY DEVICE. ELMER E. JOHNSON and JOSEPH KERSHAW, Joplin, Mo. Filed Sept. 7, 1922. Serial No. 586,716. 2 Claims. (Cl. 40—138.)

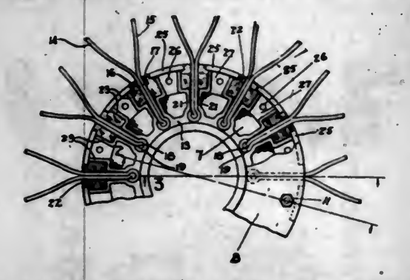


1. In a device of the character described, a substantially flat member having the simulation of an eye thereon, said member being provided with a slot adjacent said eye, an eyelid formed of similar material pivotally mounted on the back of said member and projecting through said slot, resilient means for normally retaining said eyelid in raised position, and a flexible element secured to said eyelid remote from said pivot whereby it may be lowered over the adjacent portion of said member to simulate winking.

1,456,274. PROCESS OF RENDERING METAL NON-OXIDIZABLE AND THE METAL. WILLIAM J. KEEP, Detroit, Mich. Filed June 4, 1915. Serial No. 32,107. 2 Claims. (Cl. 91—70.2.)

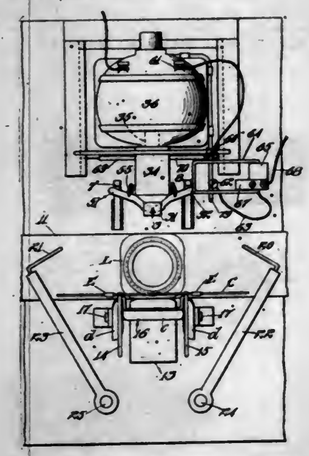
2. The method of producing a non-porous highly-refractory surface on steel, iron and like ferric compounds to produce a product wherein such metal forms the core of the product, and wherein the surface will resist heat temperatures in excess of those capable of reducing the metal forming the core, such method consisting in developing the surface from the core metal and aluminum by a stage operation in which the core metal is initially coated with molten aluminum by dipping the core metal in an aluminum bath and with both metals having a temperature value at least equal to that of the melting point temperature of the aluminum during the dipping operation, thereby producing a coating upon the core metal; then removing the coated core metal from the aluminum bath to produce an embryo product; then removing the excess of aluminum from the product by product manipulation, and then producing the surface by subjecting the embryo product to the action of heat of a temperature value considerably above that of the melting point of the bath aluminum and in the presence of air to provide a heat application differing in characteristic from that of the bath and for a period of time sufficient to complete the product, such completed product having the characteristics of a surface integrally and permanently united to the core of being non-porous and non-oxidized, and of heat resisting value greater than that required for the reduction of aluminum or of the metal of the core of the product.

1,456,275. VEHICLE WHEEL. ADELBERT F. KELLY, Spokane, Wash. Filed Dec. 2, 1920. Serial No. 427,826. 8 Claims. (Cl. 152—50.)



1. A wheel hub including a body member having an inner portion provided with a plurality of annularly disposed recesses, said member also being shaped to provide a plurality of channels, each channel extending outwardly from one of said recesses, spoke members having portions inwardly extending through said channels and terminally seated in said recesses, and resilient means carried by the hub adjacent its periphery yieldingly to resist distortion of said spoke members.

1,456,276. JAR-TRIMMING MACHINE. JOHN L. KIVLAN, Boston, Mass. Filed Jan. 12, 1921. Serial No. 436,761. 16 Claims. (Cl. 140—94.)

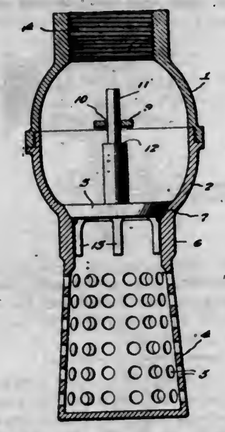


1. The jar trimming machine comprising bending mechanism to bend the substantially straight wire of the trimming around the neck of the jar and bring the ends thereof into juxtaposition, and a twister to twist the ends of the wire together and flatten the same against said neck.

1,456,277. VALVE. THOMAS JOHN MCKENZIE, Barberton, Ohio. Filed May 3, 1921. Serial No. 466,509. 1 Claim. (Cl. 103—220.)

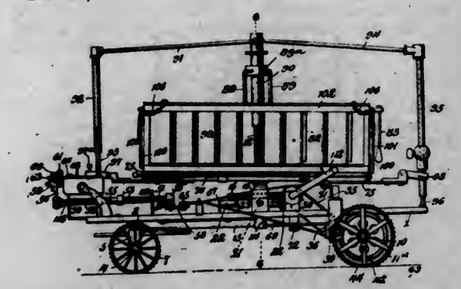
A foot valve of the character described comprising a two section body of bulbous form threadedly secured together, a tapered perforated extension depending from the lower section and converging upwardly, an imperforated part separating the perforated extension from the upper portion of the last mentioned section, a valve seat formed at the junction of the section and the imperforated part, a valve member designed to normally engage the seat, a cross bar arranged in the upper section and being provided with an opening in its center, a

stem rising from the valve member and being provided with a reduced portion designed to pass through the opening, a shoulder formed by the reduction and being



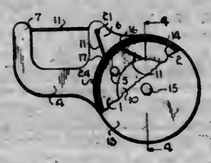
adapted to engage the cross bar to limit the upward movement of the valve member, guide means for the valve member and wrench engaging means for each section.

1,456,278. LOADING AND UNLOADING DEVICE. ALVA LARENCE OLIPHANT, Washington, Kans. Filed Dec. 19, 1921. Serial No. 523,497. 28 Claims. (Cl. 298—8.)



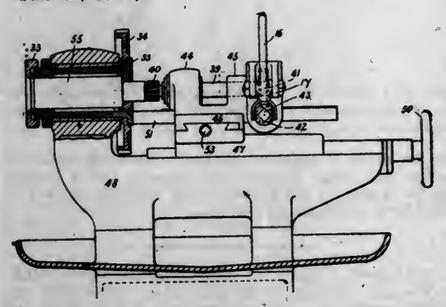
1. A device of the character described, comprising a wheeled supporting frame, a screw shaft mounted upon said frame, an auxiliary frame provided with a rack having a vertical and rotary movement on the shaft, which extends above the auxiliary frame, and means for rotating said screw shaft for imparting a vertical movement to the auxiliary frame and the rack, and an overhead means above the rack connected to the upper end of the screw shaft for bracing the same.

1,456,279. DENTAL FLOSS HOLDER. ARTHUR LOW PATTERSON, Albemarle, N. C. Filed Dec. 16, 1922. Serial No. 607,363. 6 Claims. (Cl. 132—92.)



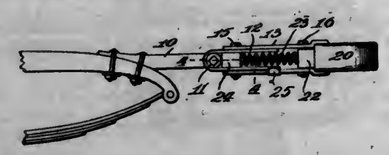
6. A dental appliance comprising a receptacle for containing a spool of dental floss, a removable cover for the receptacle, co-acting means embodied in the receptacle and cover for tensioning the floss as it is unwound from the spool, a body portion rigidly secured to the receptacle and having spaced extensions formed thereon, a cleat carried at the terminal of each extension and adapted to clamp the floss from the spool across the space between the extensions and hold the same taut, and an outwardly projecting, pointed tongue having its lower edge bevelled below the inner cleat to constitute a cutter for severing the used portion of the dental floss.

1,456,280. MILLING SCREW THREADS. GEORGE RICHARDS, London, England. Filed Feb. 5, 1917. Serial No. 146,692. 4 Claims. (Cl. 10—154.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine for cutting screw-threads by means of a hob, a shaft for rotating the hob, a shaft for rotating the work, mechanism interconnecting the two shafts for rotating the hob and the work normally at the same rotative speed, and means, forming a part of said mechanism, for slightly varying at will and within narrow limits the relative rotative speeds of two shafts.

1,456,281. BUMPER FOR MOTOR VEHICLES. FRANK K. ROGERS, Los Angeles, Calif. Filed Feb. 27, 1922. Serial No. 539,664. 1 Claim. (Cl. 293—55.)

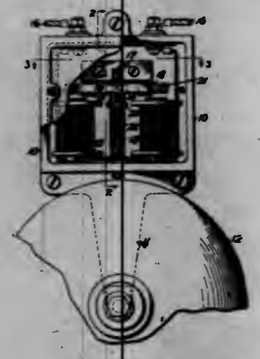


A vehicle bumper comprising spaced supports, telescoping members horizontally extending therefrom with interposed helical springs, means consisting of engaged serrated surfaces for maintaining said members in variable angular relation to said supports, a transverse bar connecting said members, and a variably spaced bumper rail horizontally attached to said bar with a plurality of interposed helical springs.

1,456,282. ALTERNATING-CURRENT ELECTRIC BELL. CURT J. ROHLAND, Seekonk, Mass., assignor, by mesne assignments, to Signal Engineering and Manufacturing Company, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 12, 1916, Serial No. 90,757. Renewed Oct. 9, 1922. Serial No. 593,459. 5 Claims. (Cl. 177—7.)

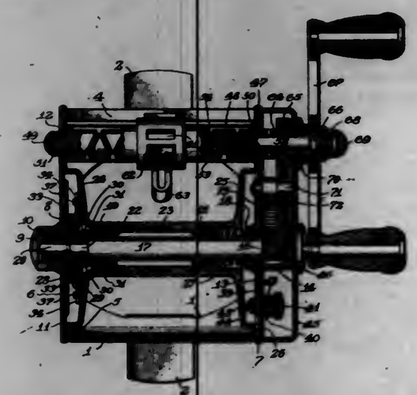
1. In a sound producing device, the combination with an alternating current electro-magnet, its armature, and a device to be vibrated, of a reciprocating plunger fixedly connected with the armature and movable therewith, a

coiled spring located on said plunger for forcing the armature away from the coils, said plunger having a screw thread, a nut fitting said screw thread and engaged



by the end of the spring, said nut constituting means by which the spring actuates the plunger, and a locking device carried by the armature and engaging the nut to hold it in its adjusted positions.

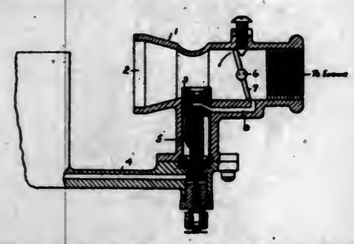
1,456,283. LEVEL-WIND ANTIBACKLASH REEL. WILLIAM SCHMID, Coldwater, Mich. Filed Feb. 18, 1921, Serial No. 446,142. Renewed Apr. 6, 1923. 11 Claims. (Cl. 242—84.5.)



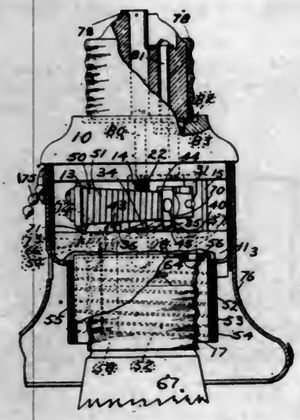
10. In an anti-back lash reel having a spool shaft and spool, a head on said shaft, governor arms pivotally supported by said head and loosely engaging said spool, said governor arms establishing a driving relation between said spool shaft and spool so that the former may drive the latter and by being subjected to centrifugal force change the normal relation between said head and said spool, and cam means between said head and spool causing lateral movement of said spool for braking purposes when said governor arms are actuated by centrifugal force.

1,456,284. GOVERNOR FOR INTERNAL-COMBUSTION ENGINES. PAUL F. SHIVERS, Ludington, Mich., and JOHN F. LINDBERG, Chicago, Ill., assignors of one-half to Leddra W. Holt, Ludington, Mich. Filed Nov. 12, 1919. Serial No 337,519. 3 Claims. (Cl. 290—40.)

1. A governor for internal combustion engine-driven electric generating plants comprising a carburetor adapted to be connected to the engine and having an air passageway therein, a valve within the air passageway adapted to be turned continuously in one direction from substantially closed position to wide open position and again to substantially closed position, means normally maintaining the valve in substantially closed position and means to turn the valve in the aforesaid direction, the latter means being responsive to the voltage of the electric current generated by the generator.

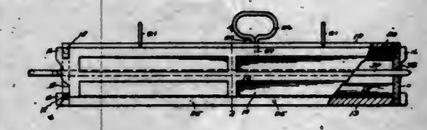


1,456,285. THERMOSTATIC LAMP DIMMING PULL SOCKET. RAYMOND D. SMITH, Milton, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 3, 1920. Serial No. 421,554. 20 Claims. (Cl. 219—49.)



1. A pull socket switch structure embodying, in combination, a lamp receptacle; means to dim the lamp; a controlling switch; and a device operatively related to said switch, electrically governed thereby, and adapted when electrically energized to cause delayed circuit-breaking swith movement to extinguish the lamp; together with manual actuating means for establishing selective operative positions of said switch whereby the lamp may respectively be fully lighted, dimmed, or automatically extinguished a substantial period of time after manual actuation of said switch to energize said device.

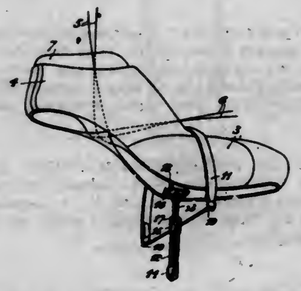
1,456,286. FENCEPOST MOLD. HENRY W. SNOW, Dayton, Ohio. Filed Aug. 23, 1921. Serial No. 494,635. 2 Claims. (Cl. 25—121.)



1. A post mold having removable sides, a top and ends, interlocking means between the sides and ends,

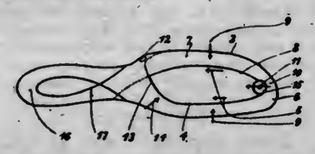
means carried by the top and sides for forming the molded post in an octagonal shape, a base for said mold, a sheet metal covering for said base, said base being provided with openings, and handles for engagement within said openings, whereby said base may be transported.

1,456,287. METHOD FOR PULLING OVER UPPERS. MARIUS METHILTUS SÖRENSEN, Vallerod, near Rungsted, Denmark. Filed May 28, 1919. Serial No. 300,244. 1 Claim. (Cl. 12—145.)



A method for pulling over foot-gear on the last consisting in placing the upper leather over the last, stretching a strap across the outer surface of the upper and pulling the ends of said strap in a direction away from the bottom of the upper to exercise a pressure on the upper between its stretched edges, said pressure acting in a direction against the upper side of the last, thus producing a friction between the upper and the last, maintaining this friction, and subsequently releasing the strap from the upper.

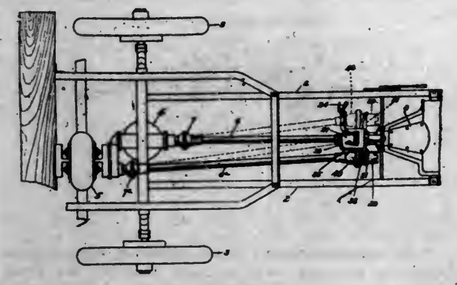
1,456,288. METHOD OF LASTING WITH WIRE. MARIUS METHILTUS SÖRENSEN, Vallerod, near Rungsted, Denmark. Filed July 12, 1919. Serial No. 310,445. 3 Claims. (Cl. 12—145.)



1. A method for lasting shoes consisting in arranging a tension-wire loop at the lower edges of the upper, contracting this loop to draw the lower edges of the upper toward each other, stopping the contraction of the loop in the longitudinal direction of the same after the toe portion has been lasted to a desired extent, and continuing without obstruction the contraction of the entire sides of the loop in a transverse direction only to last the side edges of the upper to a desired extent.

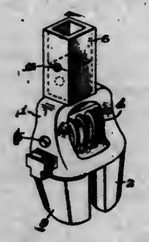
1,456,289. CLUTCH-SHIFTING MECHANISM. LEONIDAS P. STOREY, St. Paul, Minn., assignor to Waterous Fire Engine Co., St. Paul, Minn., a Corporation of Minnesota. Filed Apr. 8, 1922. Serial No. 550,760. 6 Claims. (Cl. 74—7.)

1. The combination, with a frame having a traction means and a transmission shaft connection and clutch member therefor, of differential and driven shafts, a support for said differential and driven shafts adjacent said transmission shaft connection, clutch members connected with said differential and driven shafts for alignment and engagement with the clutch member of said transmission shaft connection, and a lever having a forward and backward and lateral movement and connected



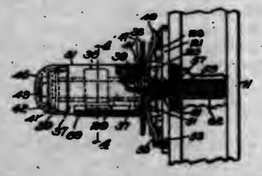
with said support for adjusting it in alignment with said transmission shaft clutch member and engaging the clutch members of said driven and differential shafts therewith.

1,456,290. ADJUSTABLE WRENCH. KARL G. TELL, Highland Park, Mich. Filed Sept. 19, 1921. Serial No. 501,514. 2 Claims. (Cl. 81—165.)



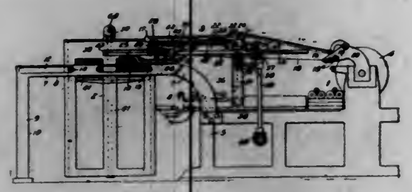
1. A wrench comprising a body member having a fixed jaw integral therewith, a reduced non-circular tang formed at the end of the body member opposite the fixed jaw, a movable jaw, a portion integral with said movable jaw having a rack formed thereon and adapted for sliding movement within a groove in said body portion, a worm mounted upon a pivot within said body portion in mesh with said rack, and a non-circular sleeve secured to said tang, the tang extending through a portion only of the interior of the sleeve whereby to provide a socket adapted to receive a handle member.

1,456,291. DELIVERING MATERIAL FROM ROLLS. WILLIAM M. WEMILDON, Ashland, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Aug. 6, 1920. Serial No. 401,742. 16 Claims. (Cl. 247—6.)



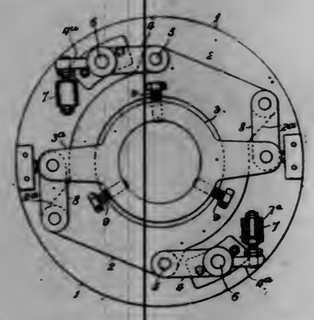
1. A machine of the class described comprising a rotating head, a rotary support for a roll of material thereon and means also carried by the head responsive to the centrifugal force due to the weight of such material to apply a braking force resisting rotation of such support.

1,456,292. PRINTING PRESS. WALTER E. AMBERG, Chicago, Ill., assignor to William O. Peterson and Bernard L. Engelke, both of Chicago, Ill. Filed Sept. 28, 1921. Serial No. 503,942. 48 Claims. (Cl. 271—84.)



1. In a printing press, the combination with a press proper, a receiving table normally abutting said press proper, and means for adjusting said table longitudinally of the press proper, of a sheet delivery mechanism for delivering from the press proper to said receiving table, said mechanism being extensibly and contractibly adjustable in order to operate uninterruptedly irrespective of the position of said receiving table.

1,456,293. CHUCK FOR LATHES AND THE LIKE. CECIL DANIEL ANDREW, Buxton, England. Filed Nov. 12, 1921. Serial No. 514,495. 2 Claims. (Cl. 82—40.)



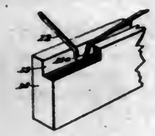
1. In a chuck for lathes and the like, a face plate, a driving member, spring controlled means for suspending said driving member from the face plate, and a dog suspended from said driving member.

1,456,294. TOOTH SEPARATOR. GEORGE M. ARROWSMITH, Kansas City, Mo., assignor to James W. Ivory, Philadelphia, Pa. Filed Dec. 17, 1921. Serial No. 523,001. 2 Claims. (Cl. 32—19.)



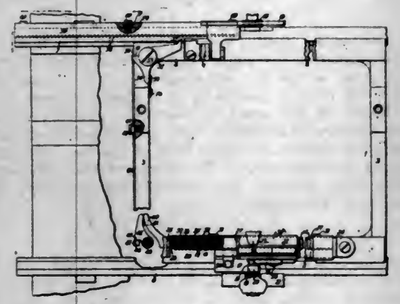
1. A tooth separator having a frame, a wedge movably mounted thereon, means for operating said wedge, and a bow on said frame, said wedge having an offset approximately right angular in the direction of its length correspondingly deflecting the wedge from the adjacent portion of the frame.

1,456,295. SEED-CORN DRIER. JOSEPH SMITH BAIN, Cedar Rapids, Iowa. Filed May 12, 1922. Serial No. 560,445. 4 Claims. (Cl. 34—26.)



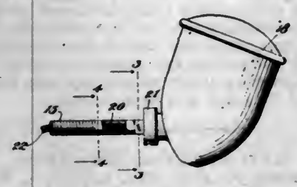
1. In a seed-corn drier, a supporting bar having an upwardly opening groove therein to receive and hold the shanks of the ear-supporting spurs, and spurs provided with depending shanks to fit snugly in said groove, and to prevent the spurs from tipping or turning sidewise.

1,456,296. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed June 27, 1922. Serial No. 571,196. 23 Claims. (Cl. 197—63.)



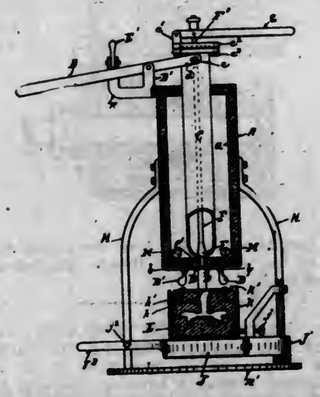
1. In a typewriting or like machine, the combination of a carriage, and two pairs of co-operative margin stops, the stops of both pairs operating simultaneously to stop the return movement of the carriage and thereby prevent a springing of part thereof by momentum.

1,456,297. LAMP SUPPORT. WILLIAM BERK, New York, N. Y., assignor to American Auto Lamp Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 3, 1921. Serial No. 489,500. 2 Claims. (Cl. 240—57.)



1. An automobile lamp having a reduced exteriorly threaded portion projecting therefrom, the lamp adjacent said threaded portion being provided with a relatively enlarged portion, the relatively reduced portion forming the shank and the relatively enlarged portion forming the head of the bolt, the lamp, head and shank having a passage therethrough serving as a conduit for an electric conductor.

1,456,298. COMBINED FURNACE AND CRUCIBLE. WILLIAM T. CARNES, Kansas City, Mo., assignor to The Carnes Artificial Limb Company, Kansas City, Mo. Filed July 29, 1922. Serial No. 578,461. 3 Claims. (Cl. 22—70.)



1. In an apparatus of the class described, a furnace chamber, means to heat the same, an opening in each end of said chamber, means to support said chamber in a vertical position, a crucible adapted to be inserted into the upper end of said furnace chamber and extend downwardly therein, means to suspend said crucible therein and lower the same through the opening in the lower end of said furnace chamber, a nozzle on the lower end of said crucible, a valve to control the opening through said nozzle, and means to operate said valve.

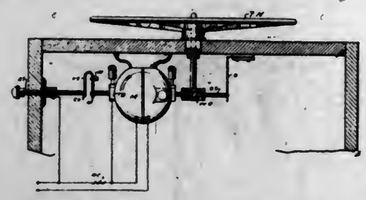
1,456,299. NECKTIE HOLDER. JAN CENOBY, St. Louis, Mo. Filed Sept. 25, 1922. Serial No. 590,391. 5 Claims. (Cl. 24—57.)



1. In a necktie holder, a collar engaging body, and a collar button engaging member slidably mounted on said body so as to maintain the relative angular position between them, said member having a button head receiving opening, the axis of which is substantially at right angles to said member and having a button shank receiving opening, the axis of which is disposed angularly to the axis of said head receiving opening.

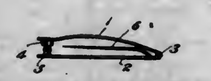
1,456,300. MOTOR GOVERNOR. WILLIAM W. DEAN, Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed June 20, 1919. Serial No. 305,527. 1 Claim. (Cl. 175—355.)

In a motor governing system, the combination with an electric motor, a reed spring governor therefor, electric circuit controlling contacts operated by the said governor to control the speed of the motor, the said governor comprising a U-shaped reed, one arm of the said reed being secured to the said shaft, the other arm of the said reed being free and carrying an electric controlling contact, the



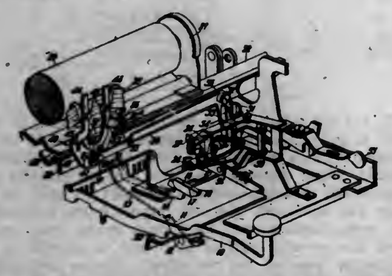
said controlling contact being mounted in line with the axis of rotation of the said shaft, and a centrifugal weight mounted on the secured arm of the said spring.

1,456,301. LINGERIE PIN. ELLA DIEFENBACHER, New Philadelphia, Ohio. Filed May 24, 1922. Serial No. 563,245. 2 Claims. (Cl. 24—259.)



1. A device of the character described comprising a pair of relatively movable arms hingedly secured together at one extremity, one member of a snap fastener carried by each of said arms at the free extremity thereof, said members being arranged to coact to fasten the free ends of said arms together and a prong extending longitudinally between said arms and attached to the lower of said arms.

1,456,302. TYPEWRITING MACHINE. WILLIAM A. DOBSON, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 28, 1920. Serial No. 384,863. 6 Claims. (Cl. 197—159.)

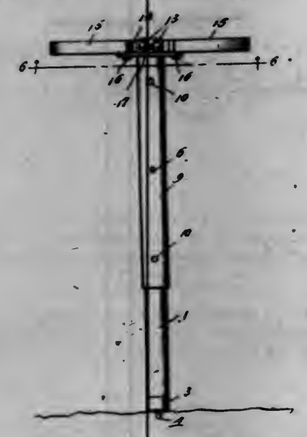


1. In a typewriting machine, the combination of a platen, a forked ribbon-vibrator, a guide for said ribbon-vibrator, a transverse lever to engage said vibrator centrally and operate the same, a stop for said lever, said stop being adjustably mounted on said guide, platen-shifting means, and a support for said lever and said guide, said support being shiftable with said platen.

1,456,303. ACIDPROOF MORTAR. PER GÖSTA EKSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Syrefast Murning, Stockholm, Sweden, a Corporation of Sweden. Filed Dec. 16, 1920. Serial No. 431,301. 3 Claims. (Cl. 106—30.)

1. Acidproof binding agent, containing a mixture of finely divided hard siliceous material, a lead oxid, and a magnesium silicate material, together with water glass.

1,456,304. COMBINATION WALKING CANE. LEO FRITSCHKA, Detroit, Mich. Filed Apr. 4, 1922. Serial No. 549,468. 2 Claims. (Cl. 135—47.)



1. A cane constructed and arranged to be increased and diminished in length and having a combined handle and seat, said handle and seat being made up of a body, handle sections hingedly connected thereto, and plates detachably connected to the handle section and adapted when said sections are disposed horizontally to prevent movement of the same below the horizontal.

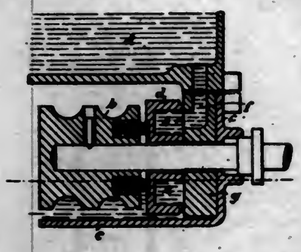
1,456,305. SAFETY CLASP FOR JEWELRY. EDWARD C. GRASSMAN, Newark, N. J., assignor to Harry C. Schick, Inc., a Corporation of New Jersey. Filed Dec. 2, 1922. Serial No. 604,470. 5 Claims. (Cl. 24—230.)



1. A clasp comprising a box-like body having an open end, a guard-hook device secured to one wall of and located within the open end of said body, a male fastener having closed means at its free end to straddle said guard-hook, mutually cooperative parts on said box-like body and said male fastener for normally interlocking the same together, said guard-hook device being spaced from the opposite wall of said body to provide an unobstructed passage for the direct endwise longitudinal movement of said male fastener into said body.

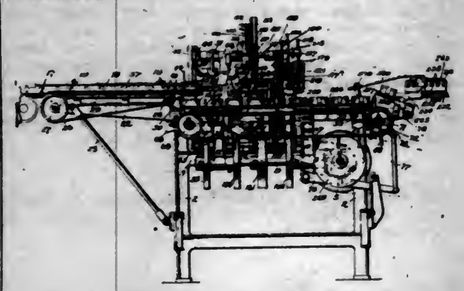
1,456,306. CENTRAL LUBRICATOR PROVIDED WITH A DISTRIBUTING ROLLER ROTATING WITHIN AN OIL RESERVOIR AND A DEVICE FOR OBTAINING A PERMANENTLY-UNIFORM OIL LEVEL WITHIN SUCH RESERVOIR. ARTHUR GRÜTZNER, Meissen-on-the-Elbe, Germany. Filed Aug. 30, 1921. Serial No. 497,039. 6 Claims. (Cl. 184—103.)

4. A lubricant apparatus comprising an oil reservoir, an oil box, an oil level controlling member, a ring having a plurality of pockets therein, there being a passage from the oil reservoir through the said oil level controlling member, and there also being a recess in the said oil level controlling member, a shaft upon which the said ring is loosely mounted, and means for turning the said ring from the said shaft and yieldingly maintaining the said ring in contact with the surface of the said oil-bevel controlling member whereby as the said ring turns oil is permitted to flow from the reservoir successively into



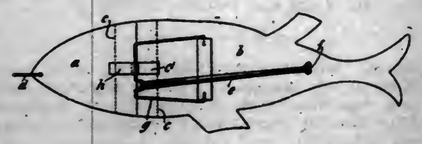
the said pockets and to flow from the said pockets into the said oil box when the oil therein falls below a predetermined level.

1,456,307. MACHINE FOR APPLYING STAMPS, LABELS, OR SEALING STRIPS TO PACKAGES. GEORGE WILBUR GWINN, New York, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C., a Corporation of North Carolina. Filed May 20, 1914. Serial No. 839,835. 58 Claims. (Cl. 216—58.)



54. In a machine for affixing stamps or labels to packages, in combination, means for applying labels to packages, one by one in succession, with the end portions of the labels projecting beyond the sides of the package, means for applying an adhesive to the projecting portions of the labels and for extending the projecting end portions of each label down and against the sides of each package, a receiver for thereafter collecting a plurality of the packages arranged side by side in a bank, and wipers extending along said receiver for repeatedly pressing the end portions of the labels of the packages in the bank.

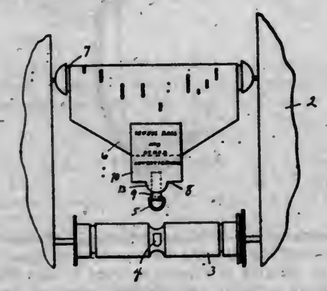
1,456,308. APPLIANCE FOR PLAYING FISHING GAMES. WILLIAM CHANCELLOR HAIGH, Porth, Wales. Filed Nov. 4, 1922. Serial No. 599,052. 4 Claims. (Cl. 46—56.)



1. An appliance for playing a fishing game comprising a fish form or image having at one end a device adapted to be engaged by a fish hook, and provided with a spring

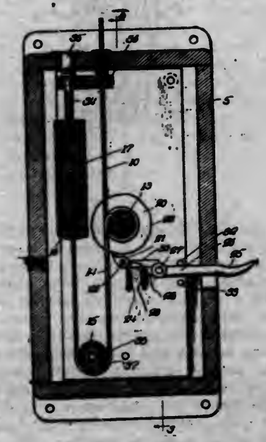
which is under tension when the image is at rest in the pond and which tends to cause the image to jump from the hook when engaged with the hook and when first suddenly raised.

1,456,309. SUBSTITUTE END FASTENER FOR MUSIC ROLLS. SAMUEL WILBUR HARRIS, Camden, N. J. Filed May 25, 1921. Serial No. 472,495. 2 Claims. (Cl. 84—162.)



1. A substitute end fastener for music rolls comprising two sheets fastened together throughout a portion of their length and adapted to be attached to a music roll sheet with the latter disposed between them and a tape carrying a ring secured between the portions of the sheets which are fastened together.

1,456,310. INDICATOR. NOAH S. HARTER, Waukegan Ill., assignor of one-third to A. T. Weaver and one-third to George F. Rummel, both of Chicago, Ill. Filed May 18, 1921, Serial No. 470,570. Renewed Apr. 14, 1923. 1 Claim. (Cl. 265—22.)



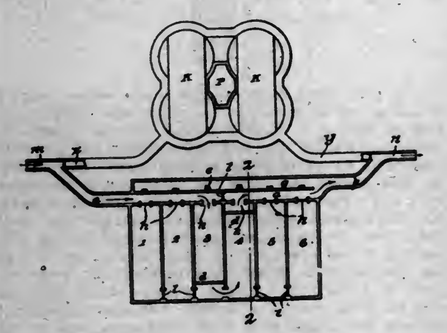
An indicator having a casing; a rotatable drum therein; a ratchet wheen in the casing and an index outside the casing rotatable with the drum; a closed coil spring within the casing having one end adjustably fixed; a cord extending into the casing, wound about the drum, secured thereto and extended therefrom into contact with the free end of the spring; a pawl yieldingly bearing on said ratchet wheel; a lever to release the pawl extending outside the casing; and means accessible thru a fixed wall of the casing to adjust the tension of the spring.

1,456,311. DEVICE FOR DRAWING THE ENDS OF A BAND OR BALE TIE TOGETHER. ROBERT L. HORSLEY, Memphis, Tenn. Filed Apr. 8, 1922. Serial No. 550,655. 1 Claim. (Cl. 254—67.)



In a device of the character described, a pair of blocks each having a body portion provided along one side with an outwardly-extending flange for passing through a loop formed at the end of a bale strap with the free end portion of the strap beneath the flange, the flange being provided with a recess opening through its outer side edge face and inner end face whereby a fastener clip for the ends of the strap may be passed into the recesses of the flanges of said blocks and engaged with the loops of the strap, and means for retaining the blocks in end to end relation to each other and moving the blocks towards and away from each other.

1,456,312. COMBINED SLUDGE SEPARATING AND DRYING BASIN. KARL IMHOFF, Essen, Germany. Filed Sept. 8, 1921. Serial No. 499,146. 2 Claims. (Cl. 210—2.)



1. In a sewage treating apparatus the combination of a sewage channel, a series of open porous bottomed shallow basins disposed side by side with their adjacent ends abutting said channel, gates connecting said basins with said channel and one with another, and movable baffle plates in said basins, said shallow basins serving in pairs and in alternatio as sludge settling basins and as sludge drying basins, their contents being exposed to light and air during both the settling and the drying operations.

1,456,313. TIMING DEVICE. EMIL G. JOHANSON, Chicago, Ill. Filed July 15, 1918. Serial No. 245,037. 6 Claims. (Cl. 161—155.)

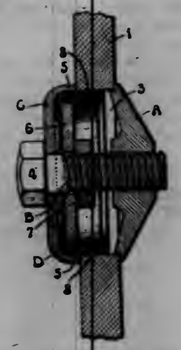
2. A timing device including an index; a motor for operating the index; and a clutch operatively connecting the motor with the index; in combination with a governor in actuating relation to the clutch to connect the motor

with and disconnect it from the index; and a brake to hold the index when disconnected from the motor, said



brake being operatively connected with the governor to be released thereby when the clutch is actuated to connect the index and motor.

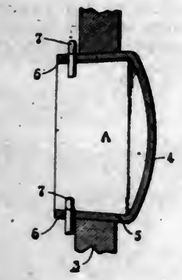
1,456,314. BOILER PLUG. FREDERICK E. KEY, St. Louis, Mo. Filed Mar. 21, 1918. Serial No. 223,858. 2 Claims. (Cl. 220—25.)



1. A boiler plug comprising an inside anchor adapted to engage the inner face of the boiler wall to which the plug is applied, a tension member secured to and extending outwardly from said inside anchor, and a closure comprising a packing holder secured to said tension member and adapted to engage the outer face of the boiler wall, and a freely yieldable packing ring having an annular outer marginal portion secured to said packing holder and a free, flexible annular inner marginal portion conforming to and adapted to be seated against the wall of the opening to be closed, said packing ring being exposed to receive the outward pressure of the fluid, so that the fluid pressure will force said annular marginal portions into engagement with their seats and at the same time place the anchored tension member under tension.

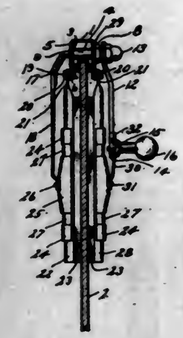
1,456,315. BOILER PLUG. FREDERICK E. KEY, St. Louis, Mo., assignor to Key Boiler Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed May 27, 1918. Serial No. 236,912. 2 Claims. (Cl. 220—25.)

2. In a device of the character described, the combination of a wall member having a tapering opening providing an annular tapering plug-receiving seat, a hollow sheet metal boiler plug closed at its inner end and open at its outer end, said boiler plug having a smooth annular conico-cylindrical peripheral portion conforming to and adapted to frictionally engage said annular tapering seat, said conico-cylindrical portion being so tapered as to decrease in diameter toward the open outer end of the plug, so that the plug, acting like a check valve, may be forced into frictional engagement with its seat by outward pressure on its closed inner end, the annular open outer end portion of the plug being adapted to pass through and extend from said opening, the last mentioned end portion comprising an annular wall provided with a transverse pin-receiving opening, and a safety de-



vice comprising a cotter pin extending entirely through said pin-receiving opening and projecting from the periphery of the plug at a point in front of said wall member so as to prevent inward displacement of said plug.

1,456,316. WINDSHIELD WIPER. FRANK KRITZ, Detroit, Mich., assignor to Kritz and Bauer, Detroit, Mich., a Copartnership. Filed Aug. 6, 1921. Serial No. 490,214. 2 Claims. (Cl. 15—256.)

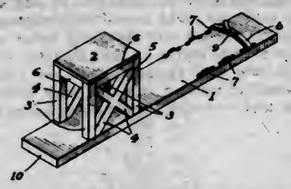


1. In a windshield wiping device wherein oscillatory wiper arms are adapted to be actuated from a rock shaft supported on a windshield frame:—a bearing for the rock shaft comprising a screwthreaded sleeve in which the shaft is journaled, a stamped clamping member at one end of said sleeve, said clamping member having an arcuate face, a perforated lug struck from the arcuate face of said clamping member and loosely supporting one of said wiper arms, another stamped clamping member on said sleeve having an arcuate face with an out-struck perforated lug to which the other wiper arm is loosely connected, and means on said sleeve screwthreaded for drawing said clamping members together and into clamping engagement with the windshield frame.

1,456,317. EXERCISER. WILLIAM E. LAUER, St. Louis, Mo., assignor, by mesne assignments, to Athletic Health Chair Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 18, 1921. Serial No. 493,216. 2 Claims. (Cl. 46—69.)

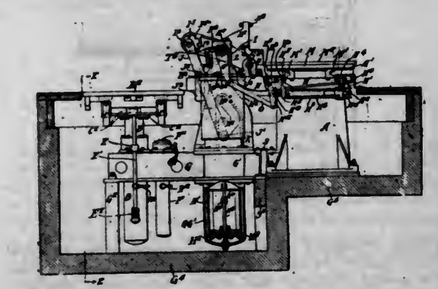
2. An exercising apparatus comprising a base, a seat rigidly supported by the base and so located thereon as to leave the base with a tilt-resisting portion to the rear of

the seat and a foot-supporting portion extending forwardly from the seat, foot-holding means on said for-



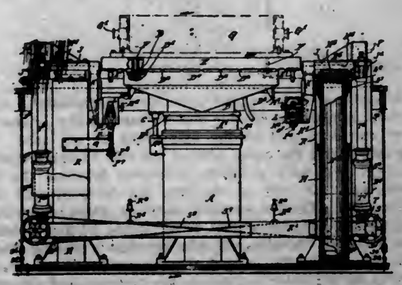
wardly-extending portion, said foot holding means comprising strap members extending transversely of the base, and anchoring means for said strap members.

1,456,318. ROLL-OVER MOLDING MACHINE. WILFRED LEWIS, Haverford, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 13, 1921. Serial No. 469,240. 7 Claims. (Cl. 22—33.)



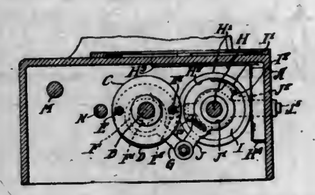
1. In a roll over molding machine, mechanism for giving the desired movements to the pattern plate consisting of a pivoted roll over frame having an actuating lever in combination with means for raising and lowering the pivotal support for said frame, an upwardly extending bracket in line with the actuating lever of the frame having upper and lower stops and a guideway extending down from the lower stop and then upwardly on an incline towards the ramming side of the machine to the upper stop, a link depending from the end of the actuating lever and a stop engaging device secured to the lower end of said link and engaged in said guideway.

1,456,319. MOLDING MACHINE. WILFRED LEWIS, Haverford, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1922. Serial No. 529,447. 10 Claims. (Cl. 22—32.)



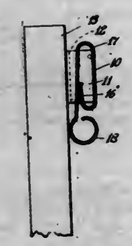
1. In a roll over jar molding machine of the trunnion type comprising a jarring machine, a roll-over plate and means for raising and lowering the roll-over plate situated on opposite sides of the jarring machine, the improvement which consists in the combination therewith of roll-over trunnions secured to the raising and lowering mechanism and locking mechanism for attaching and detaching the roll over plate to and from the trunnions.

1,456,320. FRICTION-CLUTCH MECHANISM. MICHAEL MCCANN, Glenmorris, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed July 1, 1922. Serial No. 572,136. 5 Claims. (Cl. 74—53.)



1. A friction clutch mechanism comprising in combination an annular rim, a disc fitting in said annular rim and having an elastic peripheral tongue attached to it at one end and a recess formed under the free end of the tongue and an actuating lever having a finger fitting in the angular recess beneath the tongue, and by turning which the tongue is wedged out against the rim.

1,456,321. ARTICLE-HOLDING CLIP. PATRICK W. MCGUIRE, Tottenville, N. Y. Filed June 1, 1922. Serial No. 565,212. 2 Claims. (Cl. 24—259.)

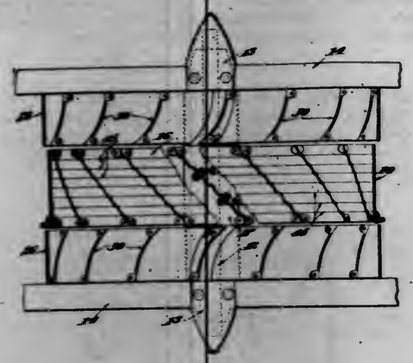


1. An article clip adapted for attachment to a support and comprising: a back plate or body portion having attaching means, a short tongue and a long tongue extending respectively from opposite ends of the body portion, each tongue being reversely folded back from the body portion so that the long tongue may contact with the short tongue, the latter being effective to increase the resilient action of the long tongue which terminates beyond the body portion in a holding portion to hold an article between itself and the support to which the clip is attached.

1,456,322. TURBINE WATER WHEEL. RODERICK WALLACE MCNEILL, Boston, Mass. Filed Nov. 16, 1920. Serial No. 424,384. 7 Claims. (Cl. 170—129.)

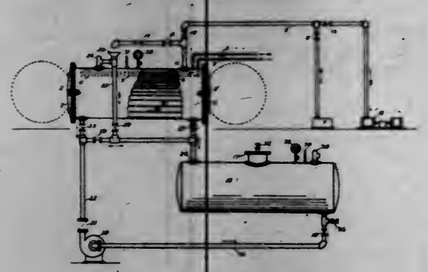
1. A turbine water wheel for use in generating power from tidal flow having a plurality of vanes across the surface of which the tide is caused to flow to cause ro-

tations of the turbine water wheel, means for causing the flow of water across the surface of the vanes to be



deflected toward and away from the vanes, and means for transmitting the rotation of the vanes to an electric generator.

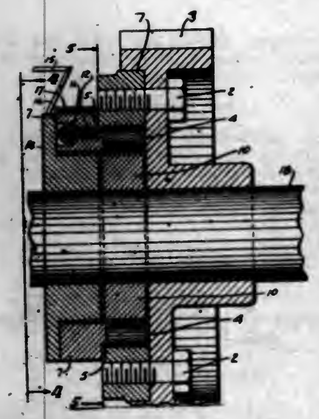
1,456,323. PROCESS FOR TREATING WOODS AND OTHER POROUS SUBSTANCES. FLOYD H. MCPHERSON, Los Angeles, and JOSEPH M. ABRAMS, San Francisco, Calif. Filed Nov. 23, 1921. Serial No. 518,229. 5 Claims. (Cl. 99—12.)



3. The method of treating wood products, consisting in heating the wood and exhausting the air moisture from the pores thereof, and forcing into the said pores a cement solution and retaining the pressure thereon after the enveloping cement solution has been drained off until the impregnated cement partially sets, substantially as described.

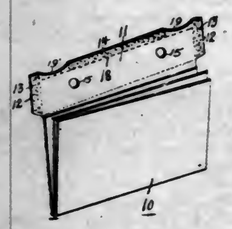
1,456,324. CLUTCH. WILLIAM MAIER, St. Louis, Mo. Filed Sept. 13, 1919. Serial No. 323,505. 1 Claim. (Cl. 192—27.)

A clutch mechanism comprising a spur gear of conventional form having a hub, a web extending therefrom and having a peripheral toothed portion which extends at right angles to said web on either side thereof, an annular member forming the immediate driving member of the clutch mechanism and having its peripheral surface closely fitting against the inner surface of the peripheral portion of said gear and abutting against the web of said gear, said annular member being detachably secured by means of bolts to said web, a driven shaft upon which the hub of said gear is rotatably mounted, an inner clutch ring keyed to said shaft adjacent to said web and having its periphery spaced from the inner surface of the first mentioned annular member, rollers positioned in said spaced, a cage for controlling said rollers, a second ring keyed to said shaft on the other side of said inner clutch ring from said gear, said second ring presenting an annular shoulder toward said gear, said roller cage having an annular portion seated on said shoulder, parallel projections on said cage extending into the space between the first annular member and the inner clutch ring for positioning and controlling said rollers, an arcuate recess



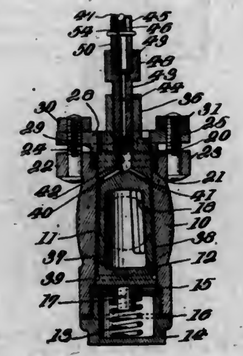
opening outwardly toward said second ring, a spiral spring located in said recess and resiliently connecting said second ring and said roller cage, and a manually controlled means for preventing said spring from causing said rollers to operatively engage said clutch member.

1,456,325. ENVELOPE. PHILIP W. MARKOWITZ, Brooklyn, N. Y. Filed Aug. 20, 1920. Serial No. 404,878. 1 Claim. (Cl. 229—92.7.)



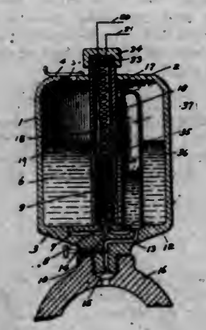
A combined envelope and letter sheet comprising a body portion, a combined closure and suspension flap extending from one edge and having extensions at the ends, the extensions and the outer edge of the flap having adhesive material and with severing punctures between the adhesive and the body of the flap, the faces of said flap within the adhesive covered portions being free from matter and the outer edge at the ends having recesses free from the adhesive, whereby the device may be folded and the closure flap sealed thereon and released by inserting an instrument through the recesses and severing the flap along the apertures, leaving the inner face of the flap free to serve as a suspension means.

1,456,326. PLUG COCK AND LUBRICATING MEANS THEREFOR. JESSE C. MARTIN, JR., San Francisco, Calif. Filed June 26, 1922. Serial No. 570,991. 8 Claims. (Cl. 251—93.)



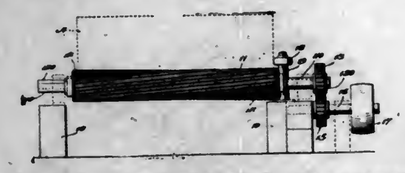
1. A plug cock comprising, in combination, a casing having a tapered seat, a plug fitting said seat, resilient means pressing said plug toward said seat, joint packing co-acting with the surface of the plug adjacent the small end thereof, means for compressing said packing whereby to relieve the friction between the plug and seat by compression of said resilient means, and means to lubricate the plug and plug seat surfaces.

1,456,327. LUBRICATING MECHANISM. SAWYER Y. MONCKTON, San Francisco, Calif. Filed Apr. 6, 1921. Serial No. 458,989. 8 Claims. (Cl. 184—65.)



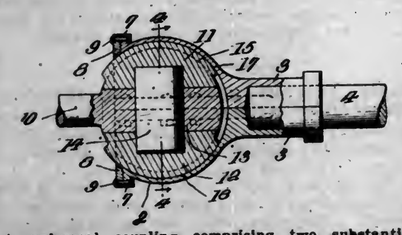
1. In a lubricating device, a chamber adapted to contain lubricant, an injector compartment and a resistance element therein, connections adapted to energise said resistance and thereby heat said compartment, a one-way valve between said chamber and said compartment, and a duct adapted to convey lubricant away from said compartment when the resistance is energized.

1,456,328. BOSSING MACHINE. JOHN MORAVEC, Vancouver, British Columbia, Canada. Filed Nov. 12, 1921. Serial No. 514,655. 22 Claims. (Cl. 144—208.)



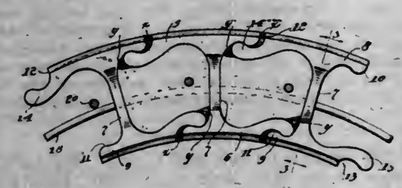
1. In a bossing machine, a pair of cutters arranged to conjointly support a log longitudinally to themselves and to rotate the same.

1,456,329. UNIVERSAL JOINT. JASPER N. MORRIS, Hattiesburg, Miss. Filed May 12, 1922. Serial No. 560,294. 1 Claim. (Cl. 64—91.)



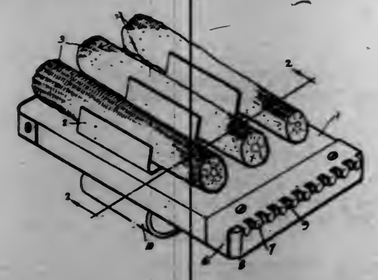
A universal coupling comprising two substantially hemispherical shells adapted to make driving connection with a first shaft and united in a plane parallel with the axis of said shaft, each of said shells having flanger openings, the flanges of which lie at right angles to the plane of connection of said sections, whereby said shells when united form an open-ended hollow sphere, a substantially spherical multi-sectional inner member housed in said joined sections and bodily shiftable relative thereto in a plane parallel with the axis of said shaft, means for preventing said inner member from rotating in said shells, said inner member including a detachable section projecting through the flanged openings of said sections and adapted to make driving connection with a second shaft, said detachable section being movable in a plane at substantial right angles to the plane of bodily movement of said spherical inner member, and a thrust ring connected to the flanges of said united sections.

1,456,330. WALL CONSTRUCTION. AUGUST J. MUELLER, Chicago, Ill. Filed Jan. 5, 1922. Serial No. 527,155. 4 Claims. (Cl. 72—29.)



1. A wall formed of blocks arranged in tiers, each block comprising an inner and an outer member spaced apart and connected by a transverse web, the adjacent ends of contiguous members forming said wall having interfitting extensions whereby recesses are provided interiorly and exteriorly of each inner and outer member, plastic keys inserted in said recesses to seal the same, and a filling of semi-fluid material poured into the space between said inner and outer members and retained therein by the keys to provide a monolithic structure.

1,456,331. COB CURRYCOMB. WILLIAM MURPHY, Minneapolis, Minn. Filed Feb. 26, 1923. Serial No. 621,404. 6 Claims. (Cl. 119—86.)

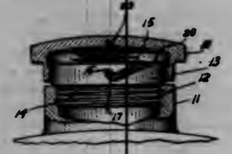


6. In a curry comb the combination with a body of a hand strap carried by said body, a plurality of individual means for holding corn cobs in substantially one plane, and a toothed plate carried by one end of said body.

1,456,332. PROCESS OF DRYING AND PREPARING FERTILIZING MATERIALS. FREDERIC J. NASH, Brooklyn, N. Y. Filed Apr. 26, 1916, Serial No. 93,772. Renewed Oct. 27, 1922. Serial No. 597,405. 11 Claims. (Cl. 71—6.)

1. The process of drying peat, which consists in forming the peat into a stack of suitable shape, applying heat internally to the stack, while allowing air to circulate through the body of the stack, then shutting off the said air circulation, and continuing to apply heat to the stack until the drying is completed.

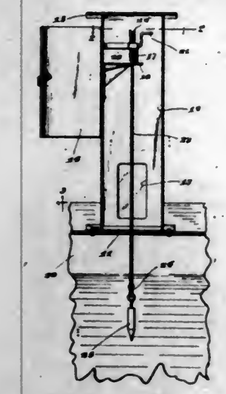
1,456,333. RADIATOR CAP. EINER M. NELSON, Providence, R. I. Filed Apr. 12, 1922. Serial No. 551,857. 2 Claims. (Cl. 220—24.)



1. A closure device for receptacles, comprising a short tubular bushing member threaded for a portion of its length to be screwed into the filling opening and also provided with grooves in its face leading from its upper edge downwardly on an angle and notched at their inner ends, and a cap-member fitting over said bushing and having pins set to enter said grooves by a relative rotation of the cap, a thin disk plate in said cap to engage the upper edge of the tube, and a spring acting between said plate and cap to lift said cap to cause its pins to enter said notches to releasably lock said cap in position.

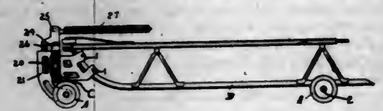
1,456,334. DEPTH GAUGE FOR TANKS. THOMAS E. PARROTT, Tulsa, Okla. Filed Dec. 8, 1920. Serial No. 429,115. 1 Claim. (Cl. 73—120.)

The combination with a liquid tank having an opening in its upper side, of a depth gauge including a housing mounted on the tank over said opening and having a sight opening in one side thereof a short distance above the lower end, a bracket mounted within the housing adjacent the upper end, a shaft supported on a bracket in vertical alignment above the tank opening, a wheel carried by the shaft, a crank on the shaft, a horizontal arm mounted in the housing adjacent the bracket and having its outer end longitudinally bifurcated and disposed beneath one side of the said wheel, and a scale carrying tape wound on the wheel and having a pointed weight on



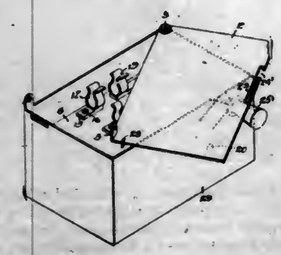
its free end and arranged to be passed through the opening of the tank into contact with the bottom of the tank, the scale of the tape being visible through the sight opening.

1,456,335. ATTACHMENT FOR HAND SLEDS. PETER R. PETERSON, Salt Lake City, Utah, assignor to Coaster Company, a Corporation of Utah. Filed Oct. 5, 1921. Serial No. 505,540. 2 Claims. (Cl. 280—8.)



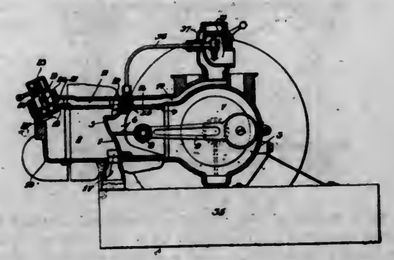
1. In a hand sled attachment the combination of wheels; roller bearings held therein by stub axles which are secured to clamp blocks adapted to engage the runners of the sled; a hingedly connected clamp block for each of the front wheels; a link connecting a leaf of the hinge portion of each of the front clamps; a cross head connecting the pins of the front clamp blocks; a swivel block mounted on said cross head; an arm of said swivel block pivoted in said link; and a handle to partially rotate said swivel block and thereby one leaf of the clamp block to turn the front wheels.

1,456,336. ELECTRIC SWITCH. WILLIAM T. PRINGLE, Philadelphia, Pa., assignor to V. V. Fittings Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,806. 18 Claims. (Cl. 200—50.)



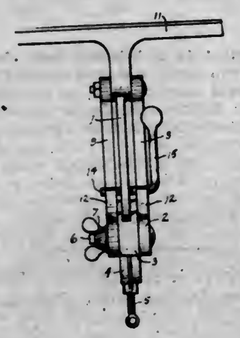
17. The combination of a container having a slidable cover; a barrier dividing the container into chambers; a switch in one of said chambers; fuse terminals in the other chamber positioned to be exposed when the cover is open; and switch-operating means including a handle projecting outside of the container and positioned to lock the cover closed until the switch is opened.

1,456,337. METHOD AND MEANS FOR CONTROLLING INTERNAL-COMBUSTION ENGINES. CYRIL GEORGE PULLIN, Isleworth, England. Filed July 20, 1920. Serial No. 397,563. 7 Claims. (Cl. 123—105.)



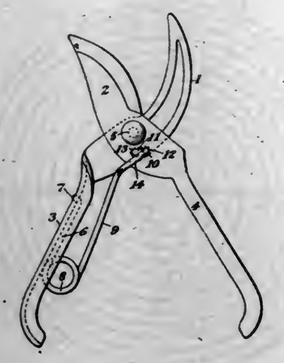
1. Means for controlling an internal combustion engine, comprising a spring-controlled valve member having a wire-drawing passage, and means for adjusting the tension of the spring, whereby the said wire-drawing tends to raise the internal pressure so as to close the said valve against the action of the said spring when a predetermined pressure, regulable by the spring, is reached.

1,456,338. SAW VISE. THEODORE RALFS, Davenport, Iowa. Filed May 19, 1921. Serial No. 470,772. 1 Claim. (Cl. 76—78.)



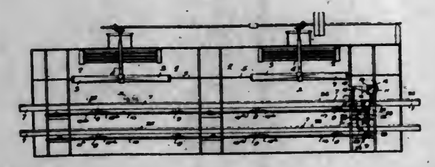
A device of the class described, comprising a screw clamp adapted to be secured on a work bench or like object, a clamping bolt in a portion of the clamp, an upwardly directed member pivoted with its lower end on said clamping bolt and forming a rear arm with a vise jaw at its upper end and two front arms parallel to the rear arm, a beam lever fulcrumed between the front arms and having at its upper end a vise jaw arranged to coact with the first mentioned jaw and its lower end depending between the front arms, a horizontally disposed crank-shaft journaled in the two front arms and engaged with the lever to swing it, and a hand lever fixed at one end of the crank-shaft for imparting rotary movement to the same.

1,456,339. MOVABLE-JAWED TOOL. FREDERIC H. RAUH, South Orange, N. J. Filed Aug. 30, 1922. Serial No. 585,119. 6 Claims. (Cl. 30—11.)



1. The combination, with a tool embodying cooperating cutting elements, of a compressible spring having one portion in fixed relation to one cutting element and another portion in adjustable relation to the other cutting element, for normally separating such cutting elements and for optionally preventing such separation.

1,456,340. CONVEYER FOR DRIERS. WALTER M. SCHWARTZ and HERMANN BOGATY, Philadelphia, Pa., assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1920. Serial No. 364,915. 2 Claims. (Cl. 198—219.)

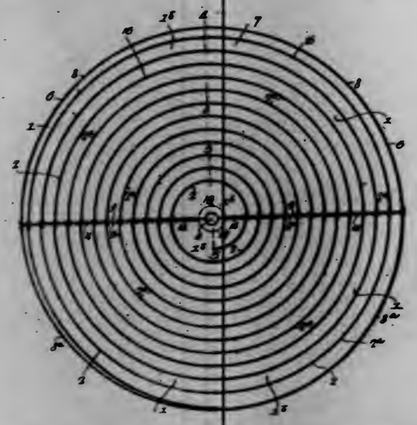


1. The combination in means for intermittently feeding material through a drying apparatus, of a fixed rail at each side of the apparatus; a bar located at each side of the apparatus; loose rollers on said bars; a movable rail carried by the rollers of each bar; means for raising and lowering the bars with their rails; and means for reciprocating the movable rails, said rails being moved in one direction when raised to feed the material through the apparatus.

1,456,341. EXPLOSIVE COMPOSITION. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1920. Serial No. 404,610. 7 Claims. (Cl. 52—7.)

3. An explosive comprising a detonating agent, a salt containing available oxygen, and wood pulp impregnated with sodium chloride.

1,456,342. EVACUATOR. CORNELIUS C. STEWART, Philadelphia, Pa. Filed Nov. 17, 1920. Serial No. 424,801. 4 Claims. (Cl. 34—4.)



1. An evacuator comprising a hollow drum, the faces of said drum having correspondingly disposed spirally arranged grooves in the inside thereof, partitioning walls in said grooves, and openings in said drum for the admission and exhaust of a liquid.

1,456,343. ELECTRIC HEATING APPARATUS FOR WAVING OR CURLING THE HAIR. EUGÈNE FRANÇOIS SUTER, London, England. Filed Sept. 19, 1922. Serial No. 589,180. 4 Claims. (Cl. 219—24.)

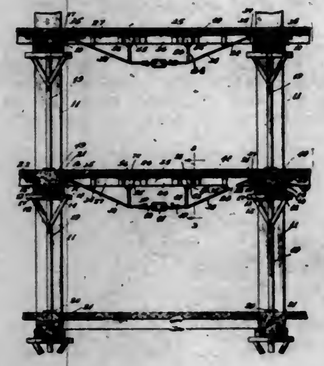


1. Electrical heating apparatus for waving or curling hair, comprising electrical heating elements and an enclosing casing therefor, said casing having a bore within which is received the hair to be treated, said bore being bounded by an openwork metallic lining.

1,456,344. METHOD OF DYEING TEXTILES. HENRY E. VAN NESS, Elmira, N. Y. Filed Oct. 7, 1922. Serial No. 592,964. 15 Claims. (Cl. 8—5.)

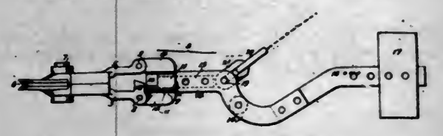
1. A method of dyeing textiles, comprising forming the textile to be dyed into a mass in a regular manner, and injecting a limited quantity of liquid dye into the mass under pressure so that the dye penetrates the mass along the line on which it is injected before any substantial portion of it is absorbed into the pores of the textile.

1,456,345. CONCRETE MOLD. JOHN A. TAGGART, Wilmette, Ill. Filed Oct. 20, 1919. Serial No. 331,862. 18 Claims. (Cl. 25—131.5.)



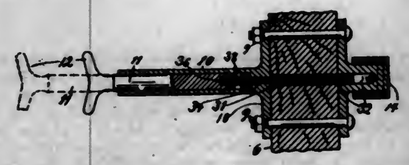
1. In a device of the character described, a mold for concrete construction consisting of a plurality of transverse longitudinal sections and a tension member directly interconnecting the ends of said built-up sections, the transverse longitudinal sections and tension member constituting a truss, said section serving as a strut member of the truss.

1,456,346. PULLEY-BLOCK CARRIER. THOMAS F. WEBSTER, Philadelphia, Pa. Filed Nov. 18, 1919. Serial No. 338,935. 1 Claim. (Cl. 254—190.)



The combination in a balanced rope sheave, of a carrier having two arms; a sheave mounted at one end of one arm and a counterweight on the other arm; a flexible support flexibly attached to the carrier at a single point substantially midway between the sheave and the counterweight so as to hold the sheave in a horizontal position, the flexible support consisting of two flexible members extending at an angle in respect to the longitudinal line through the carrier and attached to a support some distance from the carrier.

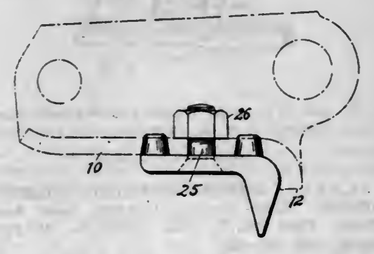
1,456,347. DIRECTION SIGNAL FOR AUTOMOBILES. OSCAR M. WEST, St. Paul, Minn. Filed June 29, 1922. Serial No. 571,778. 1 Claim. (Cl. 116—40.)



In a device of the class described a vertically disposed flat housing and means for securing the same to a stationary part of a vehicle near the driver thereof, a foldable and horizontally extensible signal arm of the lazy-tongs type normally contained in the housing, a slidable pushing and pulling handle mounted on the vehicle near the driver and a slidable, flexible operating rod or wire

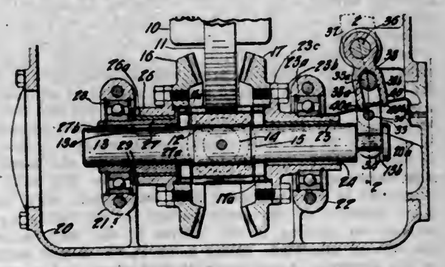
extended from the handle to the nearest links of the signal arm for extending or retracting the arm, and a metallic tube embracing said rod to guide it and cause it to slide easily, said flexible rod having each end provided with a head, a collar loosely embracing the rod near said head and threaded one into the slidable handle, the other into a slidable block pivoted to the said nearest links of the signal arm.

1,456,348. TRACK-BELT CALK. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed July 20, 1920. Serial No. 397,784. 2 Claims. (Cl. 305—10.)



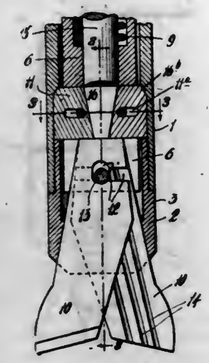
1. In a track belt for track laying tractors, the combination with a track belt link having a bottom plate said plate being provided with openings and having an end thereof formed with a downwardly extending rib, of a calk having a face which engages with the bottom plate of the link and having an angular projecting portion at one end thereof, the outer surface of the angular projecting portion engaging with the inner surface of the rib on the link, said projection extending below the rib on the link, detachable means for securing the calk to the link, and means extending from said calks into the openings in said bottom plate to prevent twisting movement of the calk.

1,456,349. DIRECTION-CHANGING TRANSMISSION MECHANISM. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Apr. 14, 1921. Serial No. 461,286. 6 Claims. (Cl. 74—59.)



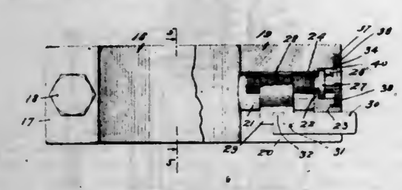
1. In mechanism of the character specified, the combination of two bearing supports, a bevel gear having a tubular hub which is rotatably mounted in one of said supports, a tubular sleeve which is rotatably mounted in the other of said supports, a bevel gear rotatably mounted upon said sleeve, a driving bevel gear engaging both of the bevel gears specified, a shaft which is rotatably fitted in the tubular hub of the first mentioned bevel gear and is also fitted within and has a tongue and groove engagement with said sleeve, a spur pinion fixed to said shaft between the two bevel gears, and means to selectively clutch the two bevel gears to said shaft.

1,456,350. COLLAPSIBLE ROTARY WELL DRILL. FREDERICK A. WIDMER, Corsicana, Tex. Filed Jan. 9, 1922. Serial No. 528,046. 3 Claims. (Cl. 255—76.)



1. A drilling bit for rotary well drilling, in combination with the drill pipe, comprising a hollowed shank member to which the bits are removably attached, a plunger carried in the hollowed shank, a spring on the plunger, means for connecting the plunger to a cable, keys between the plunger and bits and so arranged that when the device is lowered into the well the plunger and shank will move the keys downward and apart and cause them to spread the bits into operative position and lock them therein.

1,456,351. BORING-BAR TOOL. WILLIAM AAB, New Ulm, Minn., assignor of one-half to Ferdinand Crone, New Ulm, Minn. Filed Nov. 11, 1920. Serial No. 423,472. 3 Claims. (Cl. 77—58.)

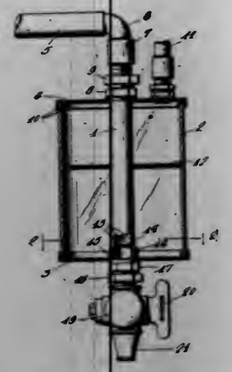


1. The combination with a holder, of a micrometer screw mounted in the holder against axial movement and having on its head an indicator, an annular scale circumferentially adjustable around the head of said screw for co-operation with its indicator, means for positively turning said scale and locking the same in different adjustments, a non-rotary traveling nut block on said screw, and a cutting tool mounted in the holder and connected to said block.

1,456,352. GASOLINE GAUGE AND STRAINER. ROBERT CELEY ALBURY, Tampa, Fla. Filed Oct. 10, 1921. Serial No. 506,683. 2 Claims. (Cl. 210—165.)

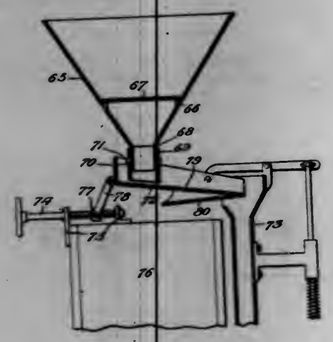
1. A gasoline gauge and strainer comprising a container having an outlet at its upper portion, an inlet pipe extending down through the container and having discharge openings spaced above its lower end and above the bottom of the container for conveying the material to be filtered into such container, said inlet pipe having a partition extending completely there across beneath said discharge openings and separating the portions of the pipe above and below said partition, said position

extending above the bottom of the container, said inlet pipe also having a drain opening at substantially the



bottom of the container leading to the portion of the pipe below said partition, and filtering means in the container, substantially as described.

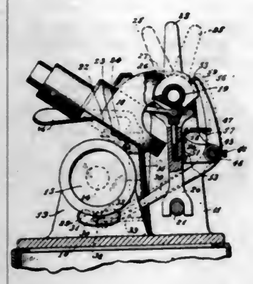
1,456,353. MILL. DARIUS D. BABB, West Jefferson, N. C. Filed May 17, 1920. Serial No. 382,024. 1 Claim. (Cl. 83—8.)



In a mill, the combination with a vertically disposed hopper and chute, of a feed trough disposed horizontally therebetween with one end underlying the said hopper and its other end extending into the said chute, suspension means associated with the said chute for supporting one end of the said trough and being operable to impart vibratory movement through the said trough, a horizontally disposed adjusting screw rotatably supported below the hopper end of the said trough, and a link having one end pivotally supporting the hopper end of the trough and having its other end constrained to move along said screw for adjusting the inclination of the said trough.

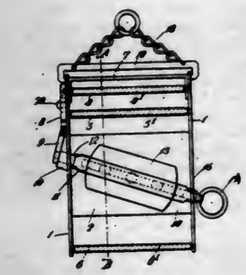
1,456,354. SAFETY EJECTOR FOR DICTAPHONES AND THE LIKE. FRANK W. BARROWS, Bridgeport, Conn., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 25, 1922. Serial No. 546,739. 16 Claims. (Cl. 274—17.)

1. In a machine of the character described, a record-support, means for removing a record therefrom, a sound-box adapted to be engaged with and disengaged from the record, and means adapted to prevent opera-



tion of said first-named means and rendered operative through engagement of the sound-box with the record.

1,456,355. SAFETY-RAZOR-BLADE-SHARPENING DEVICE. JACK BARTON, Parkmill, near Swansea, Wales. Filed Feb. 9, 1923. Serial No. 617,919½. 1 Claim. (Cl. 51—63.)

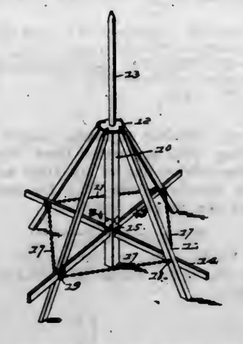


A sharpening device of the class described comprising a frame having side members connected by transverse plates, a pair of guide rollers journalled in each of the opposite ends of said side members, a substantially inverted U-shaped bar having a pair of rollers loosely mounted in its depending arms and pivotally secured to the side members, a toothed segment carried by said bar, a corresponding segment attached to one of the side members, means for positioning said last mentioned segment at an angle to the other segment with which it meshes, a blade holder operatively connected to the second mentioned segment, a strop passing over the rollers journalled in said bar down into engagement with the inner surfaces of the guide rollers in the frame and through an opening in the bottom of the said frame, the axis of said blade holder being at an oblique angle to the direction of movement of said strop, and a stud projecting through an opening in the upper segment for regulating the extent of oscillating movement imparted to the blade holder.

1,456,356. PORTABLE HAYRÁCK. ALVIS R. BENTLEY, Phil Campbell, Ala. Filed Feb. 8, 1922. Serial No. 534,923. 3 Claims. (Cl. 34—26.)

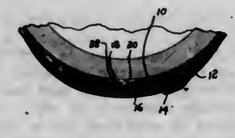
1. A hay rack having a central mast or standard, downwardly divergent leg members and radially disposed brace members hingedly connected at their inner ends to the mast or standard and at their outer ends to

the leg members, the upper extremities of the leg members being connected by a runner slidingly mounted upon



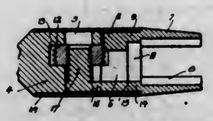
the mast or standard, and the brace and leg members being upwardly foldable into positions in substantially parallelism with the mast or standard.

1,456,357. VALVE PAD FOR INNER TUBES AND PROCESS OF MAKING SAME. JOSEPH A. BOWERMAN, Wilbraham, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 12, 1921. Serial No. 511,717. 6 Claims. (Cl. 154—14.)



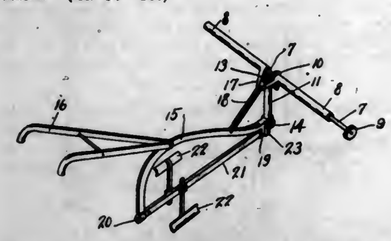
6. In a method of making an inner tube, the steps which consist in cutting a hole in the rubberized fabric laminations of a valve pad so as to leave the edges of the hole unrubberized, building the pad into the unvulcanized ruber tube, locating the tube and pad together on a mandrel so that one end of the hole in the pad laminations is closed by the mandrel and the other by the tube rubber, and vulcanizing the tube and pad together, whereby gases from the fabric laminations are afforded a path into the pocket thus formed by the hole and are held there harmlessly during vulcanization.

1,456,358. SOCKET WRENCH. GEORGE BROXTON, Pittsburgh, Pa. Filed Apr. 29, 1922. Serial No. 557,412. 5 Claims. (Cl. 81—165.)



1. In a socket wrench, a head provided with two parallel bores extending diametrically of the head, a jaw provided with a rack fitting into one of said bores, a jaw having a stud fitting into the other bore, and a member carried by the head and engaging said stud and rack for adjusting the jaws toward and away from each other by operating said member.

1,456,359. COTTON-CHOPPER ATTACHMENT FOR CULTIVATORS. SILAS O. BROWN, Sulphur Springs, Tex. Filed Apr. 6, 1922. Serial No. 550,076. 1 Claim. (Cl. 97—15.)



In a cotton chopper, the combination of an arched axle, ground wheels thereon, a gear carried by one of said ground wheels, a transverse shaft journaled in bearings on the upright portions of the arched axle and bearing a gear intermeshed with the first-named gear, a pendent swinging sleeve connected with said transverse shaft, a miter gear fixed to said shaft, an upright shaft journaled in the sleeve and having a miter gear intermeshed with the first-named miter gear, an additional miter gear on the lower portion of the shaft, a beam connected with said sleeve and capable of being swung laterally, handles on said beam, a retractile spring connected with the beam and adapted to yieldingly support the same, and a longitudinal shaft journaled in the beam and equipped with chopping means and having a beveled gear intermeshed with the beveled or miter gear at the lower end of the upright shaft.

1,456,360. AIR FILTER. ALFRED BUDIL, Berlin-Tempelhof, Germany. Filed Aug. 30, 1921. Serial No. 496,937. 10 Claims. (Cl. 183—49.)



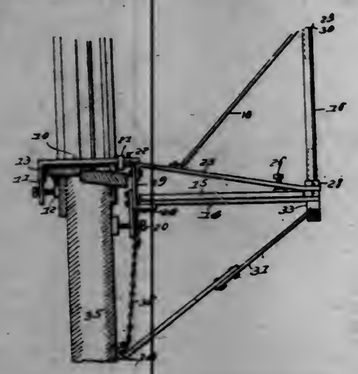
1. A gas filter comprising a plurality of perforate and imperforate plates alternating with each other in vertical zig-zag arrangement defining substantially V-shaped interspaces and a flange extending upwardly from the lower edge of each perforate plate to form a retaining wall for filtering material thereon.

1,456,361. CHAIN CONNECTOR. HORACE O. CLARK, Waukegan, Ill. Filed Apr. 13, 1921. Serial No. 460,897. 1 Claim. (Cl. 59—87.)



A link comprising two members disposed side by side, each member having spaced openings connected by a slot of less width than the diameter of either opening, the slot defining an interior lug disposed between the openings, each member having a lateral mouth disposed opposite to the lug and communicating with the slot, the lug of each member extending across the mouth of the other member and constituting a closure therefor, each member being provided with a tongue, projecting from the lug of said member, and extended into the mouth of said member.

1,456,362. WINDOW SCAFFOLD. GEORGE L. CRESSON, Milwaukee, Wis. Filed Feb. 4, 1921. Serial No. 442,465. 4 Claims. (Cl. 304—27.)



1. A window scaffold having sill brackets provided with dependent inner ends carrying clamping screws, side bars supported by the outer ends of the sill brackets for supporting a floor or platform, braces for the outer ends of said side bars, and a guard carried by said side bars and having uprights rising respectively therefrom and connected by a cross bar, bolts being extended upwardly through the outer ends of the side bars and being engaged by the interiorly threaded lower ends of said uprights.

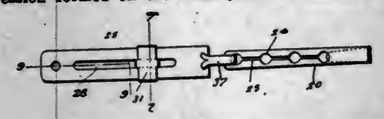
1,456,363. RAIL SPIKE. HERBERT O. CRIPPEN, Jacksonville, Fla. Filed Feb. 5, 1921, Serial No. 442,727. Renewed Mar. 8, 1923. 3 Claims. (Cl. 85—23.)



1. In combination with a spike, an anchoring element having a swinging connection with the spike and having a cam head portion moving in one direction by cam action with a rail, and having a penetrating shank portion moving in an opposite direction for engagement with a tie, and a clip for preventing relative movements of the spike and element in the initial driving of the spike.

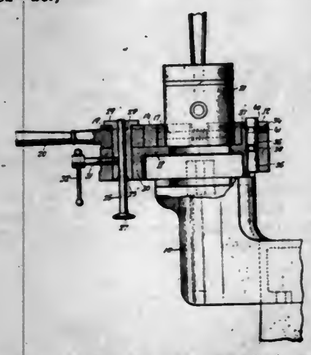
1,456,364. OVERSHOE HOLDER. WILLIAM DALBERG, Deary, Idaho. Filed Feb. 15, 1921. Serial No. 445,205. 1 Claim. (Cl. 24—84.)

In a means for holding an overshoe on a shoe, a plate provided with a longitudinal slot disposed through its center thereof, the walls of said slot having opposed transverse notches forming rounded apertures thereby, a tongue provided at one end of said plate and formed thereon by said end being bent upon itself, a U-shaped member adjustably secured to the opposite end of said plate, a strip which is centrally bent upon itself to provide angularly disposed resilient jaws, a lug disposed on the inner face of one of the jaws, a cup-shaped depression formed on the other jaw and designed to re-



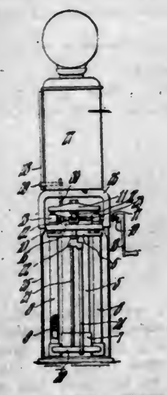
ceive said lug, slidable adjusting means between the jaws contacting with the outer faces thereof, said U-shaped member having one of its arms secured to said strip and its other arm engaging the body portion of said strip for the purpose specified.

1,456,365. VISE. FRANK DANIELSON, Chicago, Ill. Filed Aug. 23, 1920. Serial No. 405,275. 14 Claims. (Cl. 81—26.)



1. A vise of the character described comprising a base, a pair of clamping jaws on said base, one of said jaws being movable relatively to said base, a hollow pivot pin mounted on said base and a cam for moving said jaw member on said pivot pin, said pivot pin having a hardened top surface whereby the same is adapted to serve as a guide for filing valve stems.

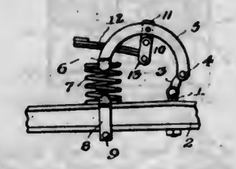
1,456,366. DISPENSING APPARATUS. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed June 20, 1921. Serial No. 478,977. 6 Claims. (Cl. 103—12.)



1. In combination, a pump, automatic means including a rotatable shaft for operating the pump, a con-

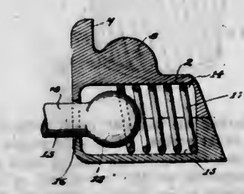
trolling device to start and stop the pump, a brake drum on said shaft, a brake shoe for said drum, and means for forcing said shoe against said drum to oppose said automatic means and retard the speed of operation of said pump.

1,456,367. SHOCK ABSORBER. GEORGE E. DENNIS, Waukesha, Wis. Filed May 7, 1920. Serial No. 379,620. 3 Claims. (Cl. 267—17.)



1. In a shock absorber for motor vehicles, the combination with a vehicle axle and leaf spring, of a pair of arcuate arms, means pivotally connecting said arms to said axle, a cross bar carried by the ends of said arms remote from their pivotal connection and being shaped to form a downwardly opening saddle, a bracket carried by said axle, a spring rest on said bracket, a spiral spring engaged between said cross bar and spring rest, a substantially U-shaped member carried by said arcuate arms intermediate their ends, clips pivoted to said U-shaped member and connected to said leaf spring.

1,456,368. RADIUS-ROD SHOCK ABSORBER. GEORGE E. DENNIS, Waukesha, Wis. Filed Nov. 19, 1920. Serial No. 425,243. 5 Claims. (Cl. 267—66.)



1. A shock absorbing attaching device for radius rods comprising a pair of detachably connected socket members recessed to form a radius rod receiving bore, and shock absorbing means in said bore, one of said socket members provided with a substantially semi-spherical enlargement on its crank case engaging surface.

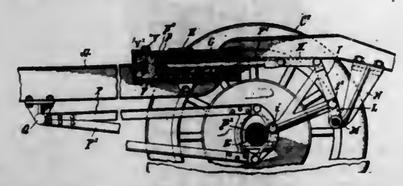
1,456,369. THERMOPLASTIC COMPOSITION AND PROCESS OF COMPOUNDING THE SAME. EMILE DE STUBNER, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Dec. 14, 1918. Serial No. 266,792. 26 Claims. (Cl. 106—15.)

1. The process of introducing shellac into fibrous material to produce a thermoplastic composition which consists in first heating the said material with unsaturated fatty acids derived from drying oils and a resin of higher melting point than shellac, and then incorporating the shellac by the application of heat.

1,456,370. PROCESS OF MAKING WATERPROOF RIGID ARTICLES FROM PULP. WALTER HENRY DRAKE and JAMES JOSEPH DRAKE, Cleveland, Ohio. Filed Feb. 2, 1920. Serial No. 355,827. 8 Claims. (Cl. 92—54.)

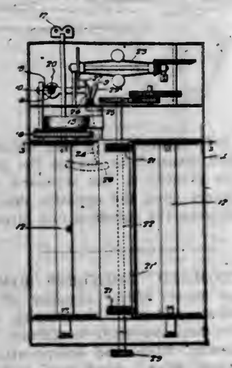
1. The process of water-proofing an article composed of fiber, consisting in coating the fibers with aluminum resinate, depositing the coated fibers in the required form, and forcing through the fibrous mass a fluid heated to the temperature of melting of the aluminum resinate.

1,456,371. ELASTIC SUSPENSION FOR VEHICLES. LOUIS L. DRIGGS and LOUIS L. DRIGGS, Jr., New York, N. Y. Filed Mar. 27, 1920. Serial No. 369,295. 20 Claims. (Cl. 267—8.)



1. An elastic suspension for vehicles, comprising a hydraulic cylinder carried by the vehicle body, a piston mounted in said cylinder, a piston rod attached to said piston, a coil spring mounted in said cylinder and held under compression between one face of the piston and the opposite end of said cylinder, a frame carried by the axle, a hanger connected to the vehicle body, and a bell crank lever arrangement connected to said hanger and connecting said piston rod and said frame, the said cylinder and piston being so constructed and arranged that said spring and the liquid contained in said hydraulic cylinder coact to resist sudden pressures applied to said piston when the downward thrust of the chassis is increased, and means controlled by said liquid alone for checking the relative movement of the axle and the chassis when the downward thrust of the chassis on the axle is decreased, substantially as described.

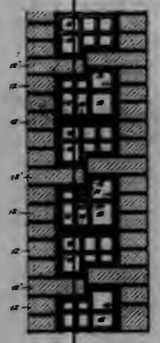
1,456,372. PANORAMIC ATTACHMENT FOR CAMERAS. WILLIAM EDWARDS, Rock Springs, Wyo. Filed Nov. 22, 1921. Serial No. 516,981. 5 Claims. (Cl. 95—17.)



1. A panorama attachment for a camera comprising a case, spool supporting means therein, a motor for rotating one spool, said casing having a shutter controlled opening therein for exposing the film to the rays of light passing through the lens of the camera, means

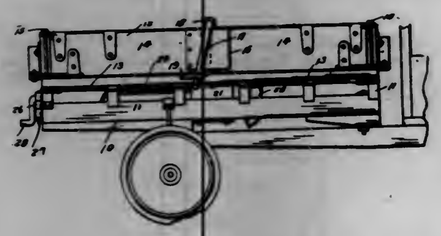
for actuating the shutter and controlling the operation of the motor and means actuated by the movement of the film from one spool to the other for rotating the camera upon its tripod.

1,456,373. BUILDING BLOCK AND CONSTRUCTION. JOHN EISENMANN, Cleveland, Ohio, assignor to The Manell Building Block & Tile Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 19, 1920. Serial No. 367,064. 8 Claims. (Cl. 72—41.)



1. A backing or filling block for brick walls, said block having the full width of one bearing side formed in the same plane, and an offset in the other bearing side corresponding to half the depth of one course of the brick.

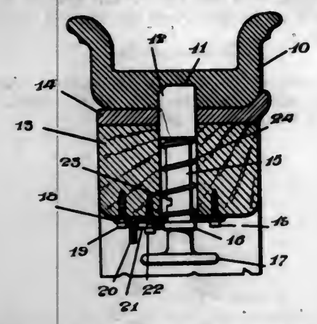
1,456,374. SIDE-DUMP VEHICLE. JOSEPH K. EXUM, Milltown, Ga. Filed June 20, 1922. Serial No. 569,675. 3 Claims. (Cl. 298—8.)



1. A vehicle body comprising a side including pivoted leaves, a standard disposed to engage the leaves at one side, and a latch pivoted to the standard and adapted to engage the leaves upon the opposite side, said leaves being confined between the standard and latch.

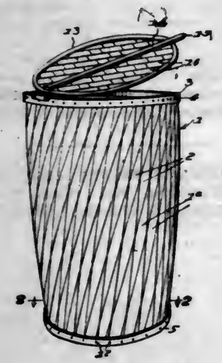
1,456,375. AUTOMATIC BOLTLESS RIM. ANDREW FORSMAN, Iron River, Mich., assignor of one-half to Archie Beauchamp and Emil Beauchamp, one-tenth to Hector McPhee, and one-tenth to Edward Greenwood, all of Iron County, Mich., and one-twentieth to A. E. Stuht, Iron River, Mich. Filed Dec. 2, 1921. Serial No. 519,475. 2 Claims. (Cl. 301—28.)

1. Rim locks of the class described comprising a felly; a metal rim mounted thereon; a demountable rim slidable on said metal rim; lug members comprising an end portion adapted to enter sockets in said demountable rim; shank portions having slots formed therein to receive locking slides adapted to hold said lugs out of engagement with said demountable rim and hand grips for the



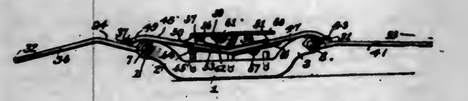
disengagement of said lugs from said sockets, said lugs being radially slidable in the felly and said rims and springs normally holding said lugs in said sockets.

1,456,376. BASKET. HENRY R. GARRITSON, Kokomo, Ind. Filed July 8, 1922. Serial No. 573,580. 7 Claims. (Cl. 217—122.)



1. A basket having an annular body formed of interwoven long and short strips, all of said strips extending from the upper end to the lower end of said body, said short strips terminating at the lower end of said body, and said long strips being bent near their lower ends to provide inwardly projecting angular overlapping extensions, means for connecting said extensions together to form a bottom for the basket, and reinforcing means arranged at the upper end of said body.

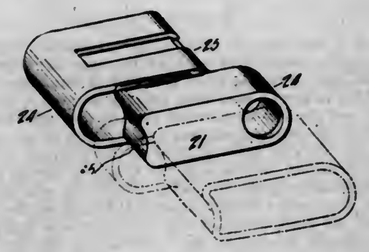
1,456,377. ANIMAL TRAP. KNUTE HARRIED, Sacred Heart, Minn. Filed Feb. 2, 1923. Serial No. 616,569. 3 Claims. (Cl. 43—81.)



3. An animal trap comprising a body portion, a pair of oppositely extending spring controlled jaws pivotally connected to said body portion, power exerting springs carried by the body portion and connected with said jaws, oppositely extending holding arms hinged together and connected to said jaws, and a trip pan arranged above

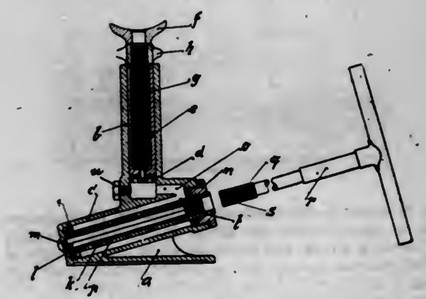
said arms and provided with means releasably engaging with certain of said arms for maintaining the jaws extended against the action of their springs, the hinged connection between said arms arranged below said pan and intermediate the ends of said arms whereby when said means is released from the arms these latter will impart a jumping action to the body portion.

1,456,378. TRACK BELT. CHRISTIAN F. HEINKEL, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed July 22, 1920. Serial No. 398,264. 7 Claims. (Cl. 305—10.)



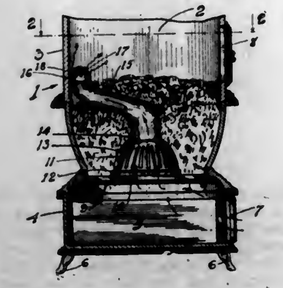
5. A track belt unit for track laying tractors comprising duplicate longitudinally extending cupshaped members secured side by side with their closed sides together, said members having substantially horizontal top and bottom portions, the adjacent top protions of which provide a continuous longitudinal roller bearing surface centrally of said unit.

1,456,379. JACK. FRIEDRICH ILSEMANN, Remscheid, Germany. Filed Jan. 22, 1921. Serial No. 439,320. 3 Claims. (Cl. 138—9.)



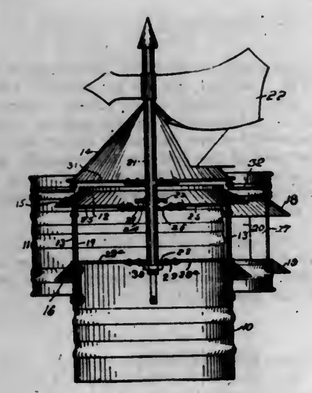
1. An improved hydraulic jack of the type in which an internally threaded pressure piston guided in the casing filled with incompressible liquid is operated by means of a spindle to be screwed into said piston comprising in combination a casing filled with incompressible liquid, a guide rod of unround cross section fixed in said casing, a pointed end of said rod, a hollow pressure piston movably mounted in said casing upon said guide rod and having internal threads in its boring, a screw spindle to be screwed into the boring of said piston having a cavity in its end designed to engage over the pointed end of said guide rod so that said spindle after it has been screwed into said piston pulls said piston forward or pushes the same back upon said rod according to the direction in which it is being turned.

1,456,380. SLACK-BURNING STOVE AND FURNACE. ROBERT E. JONES, Evergreen, Colo. Filed Sept. 1, 1922. Serial No. 585,758. 2 Claims. (Cl. 126—163.)



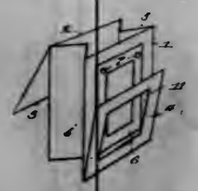
1. In a stove having a combustion chamber, an ash chamber and a grate, an auxiliary grate consisting of a semi-spherical member whose sides are provided with perforations and whose lower edge is provided with supporting lugs, said semi-spherical member having an opening in its upper sides, a tube secured in said opening and off-set with respect thereto, the end of said tube being provided with a convex, perforated cover.

1,456,381. VENTILATOR. GEORGE C. JORDAN, Eau Claire, Wis. Filed May 4, 1921. Serial No. 466,655. 4 Claims. (Cl. 98—3.)



2. A ventilator having, in combination with an upright flue section, a revoluble cylindrical deflector of a diameter exceeding and surrounding the outlet of the flue section in spaced relation therewith and provided with a side outlet opening protected by upper and lower downwardly inclined guard flanges, said deflector being carried by an upright spindle arranged in axial relation with the flue section and mounted thereon, and a vane carried by said spindle and located above the plane of the deflector for positioning the latter with its opening at the leeward side of the flue section, a conical hood being attached to and carried by the spindle above and in spaced relation with the outlet end of the flue smection and serving as a support for said deflector, the hood being provided with a lateral opening at the side corresponding with the opening in the deflector and being provided with a protecting canopy.

1,456,382. BAKING OVEN. VICTORIA A. KINCANNON, New York, N. Y. Filed June 20, 1921. Serial No. 479,057. 2 Claims. (Cl. 126—275.)



1. A foldable oven of the class described comprising a front wall, a door secured thereto, knobs on said door, and a bottom hingedly secured to said front wall and foldable against said door, the construction and arrangement being such that when in folded condition, the said knobs are distant from the said bottom, and legs detachably connected to said bottom.

1,456,383. COMBINATION HAMMER. FRANK J. KOCH, Hershey, Nebr. Filed Apr. 7, 1922. Serial No. 550,407. 1 Claim. (Cl. 7—3.)



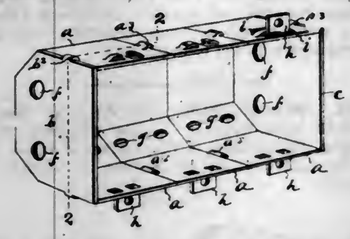
A tool of the character specified, comprising a handle member having a head at one end formed in a side with a circular recess, said head constituting a hammer and a claw, and a complemental handle member having a circular enlargement at one end snugly fitting the circular recess in the head of the first-mentioned handle member and having an offstanding projection constituting a stop and a jaw and adapted to coact with the rear portion of the hammer head.

1,456,384. AUTOMOBILE BED. CARL KREY, Battle Creek, Mich. Filed June 3, 1922. Serial No. 565,531. 1 Claim. (Cl. 155—7.)



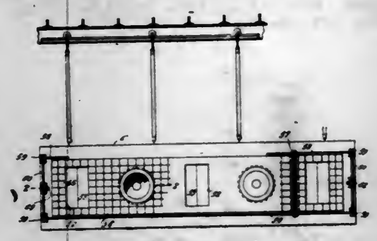
In combination with an automobile, a front seat having its back hingedly connected with the seat, the hinged means including circular parts pivotally connected together and these parts being provided with a pair of notches arranged at right angles but being adapted to register with the notches of the other part, bolts carried by the back and having portions engaging said registering notches to hold the back in upright or horizontal position, a pair of members pivotally secured intermediate of their ends to the back and having their outer ends operatively associated with the opposite ends of the bolts and their inner ends in overlapping engagement, a bracket carried by the overlapping ends, spring means supporting the bracket and a button engaging the bracket for the purpose specified.

1,456,385. FUSE BOX. ALFRED T. KVARNSTROM, Detroit, Mich. Filed July 30, 1920. Serial No. 400,088. 4 Claims. (Cl. 247—16.)



1. In a fuse box, a substantially U-shaped resilient metal section adapted to serve as the back and sides of the box, said U-shaped strip provided at one edge with projecting in-turned ears each adapted to form a pocket for an end piece to be received therein, and provided at the other side with depressions opposite and in line with said ears, an end piece adapted to be received in the pocket formed by said ears on the U-shaped section so as to be held securely therein, being forced into said pocket against the inward tension of said U-shaped section, an opposed end piece provided with inturned ears engaging said U-shaped section on the opposite end, the ears of said end piece adapted to be received in the depressions in the U-shaped section and adapted to be held thereon by the outward tension of the U-shaped section.

1,456,386. ROTATING SCRAPER FOR CLEANING THE SKIN OF VESSELS. ALBERT JOHN FREDERICK LEE, Montreal, Quebec, Canada. Original application filed Aug. 22, 1919, Serial No. 319,115. Divided and this application filed Dec. 15, 1919. Serial No. 344,996. 7 Claims. (Cl. 61—64.)



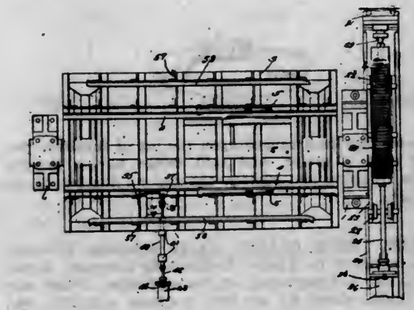
1. A closed submersible car adapted to be suspended from a vessel, means carried by the car for attaching the car to a wreck, and means movable longitudinally of the exterior of the car for scraping the plating of said wreck.

1,456,387. SCREW PROPELLER. HENRY LEITNER, Westminster, London, England. Filed Mar. 25, 1919. Serial No. 285,049. 2 Claims. (Cl. 170—159.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



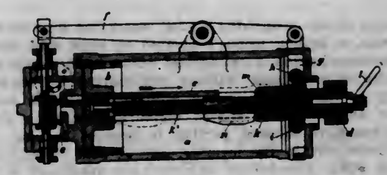
1. A hollow metal plural bladed propeller formed of a plurality of plates, each of which is shaped to form the leading side of one blade and the trailing side of another blade.

1,456,388. OSCILLATORY DUMP. DANIEL F. LEPLEY, Connellsville, Pa. Filed July 14, 1920. Serial No. 396,074. 10 Claims. (Cl. 214—52.)



1. The combination with an oscillatory dump and a track section thereon, of means carried by the dump for holding a car against movement along the track section, a stationary track section leading to the dump, means adjacent thereto for holding a car against movement on the stationary track section toward the dump, the track section on the dump being movable into and out of register with the stationary track section, and a means for simultaneously effecting three operations, namely, locking the dump against movement while the two track sections are in register, actuating the car holding means of the stationary track section to release the car held thereby, and actuating the car holding means on the dump to release the car held thereby.

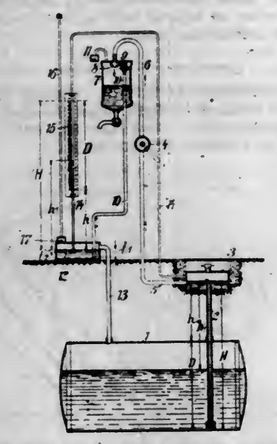
1,456,389. JIG-CONVEYER MOTOR. LUDWIG LINKOWSKI, Altenbochum, Germany. Filed Nov. 9, 1920. Serial No. 422,954. 14 Claims. (Cl. 121—164.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



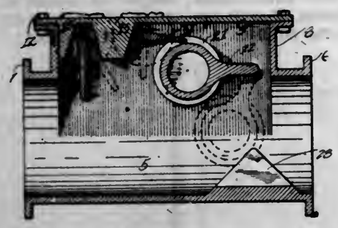
1. A motor suitable for jig-conveyers, said motor comprising a cylinder, a piston movable therein, a valve controlling the admission and exhaust of motive fluid to and from said cylinder, a valve-gear, means actuating said valve-gear to set said valve successively for the admission and for the cut-off, means actuating said valve-gear to set said valve for the exhaust, a regulating device adapted to secure automatically the same ratio of expansion for every per cent of cut-off, and means for actuating said regulating device during the operation of the motor.

1,456,390. SAFETY DEVICE FOR PLANTS DELIVERING INFLAMMABLE LIQUIDS. MAX LUDWIG, Berlin-Lichterfelde, Germany, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany, a Corporation of Germany. Filed Aug. 31, 1921. Serial No. 497,429. 6 Claims. (Cl. 221—80.)

1. A device of the class described, comprising a storage tank, a pump having a suction connection to said tank to draw liquid therefrom, a saturating receptacle connected with the delivery port of the pump and having an air inlet, an intermediate container connected with said receptacle to receive air and liquid therefrom and also connected with the said tank, and a connection, normally sealed by the liquid in said container, to admit air to the suction connection of the pump and thus stop the liquid-drawing action of said pump, when the liquid-seal is broken.

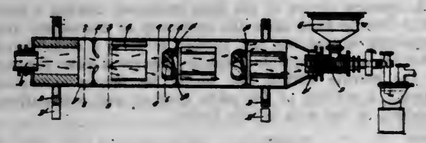


1,456,391. SURGE-RELIEF DEVICE. ROBERT E. MCLAUGHLIN, Tracy, Calif. Filed July 29, 1921. Serial No. 488,452. 5 Claims. (Cl. 137—71.)



1. In a device of the character described, the combination of a pipe, paddles mounted in said pipe, a valve mounted in said pipe, said paddles adapted to operate said valve for the purpose of admitting an auxiliary fluid to said pipe.

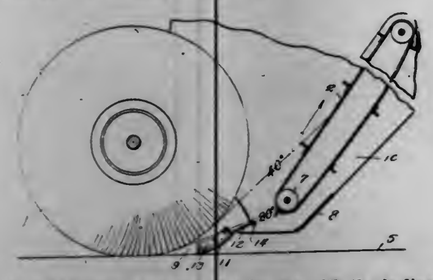
1,456,392. RETORT FOR THE TREATMENT OF CARBONACEOUS OR OTHER MATERIALS. FREDERICK DEACON MARSHALL, Westminster, London, England. Filed June 1, 1922. Serial No. 565,270. 13 Claims. (Cl. 263—22.)



1. A retort for drying, roasting, calcining or distilling carbonaceous or other materials, comprising a plurality of baffles or shelves disposed around the interior of the rotating cylinder or retort chamber, one end of said shelf being attached to the inner face of the retort chamber and the other end projecting inwards towards the interior, the arrangement around the periphery of the

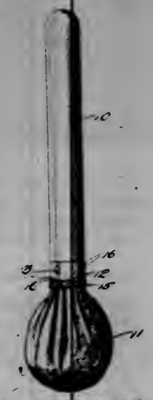
several shelves of each row being such that each shelf is disposed approximately along a chord of the retort chamber so as to deposit or shower the material raised by one shelf upon the surface of the shelf immediately in advance of it, at a point well beyond a vertical plane through the axis of the retort.

1,456,393. STREET SWEEPER. ELMER R. MARTIN, Elgin, Ill., assignor to Elgin Street Sweeper Co., Elgin, Ill., a Copartnership. Filed Mar. 30, 1921. Serial No. 456,992. 11 Claims. (Cl. 15—84.)



3. A sweepings confining shoe for use with the inclined conveyer of a street sweeper having a rotary broom, comprising a movably mounted dirt pan sloping downwardly under the broom and of relatively short width with respect to the length of the broom, and a side plate fast upon the dirt pan and projecting alongside one end of the broom.

1,456,394. CLEANING DEVICE. EDWARD FRANK MERRITT, East Boston, Mass., assignor of one-half to Frank L. Merritt, East Boston, Mass. Filed June 13, 1922. Serial No. 567,940. 1 Claim. (Cl. 15—211.)



A cleaning device of the type indicated, having a handle, a ferrule fixed upon the extremity of the handle and projecting beyond the end thereof to form a socket, and a flexible and collapsible moisture absorbent swab secured to the ferrule within the socket by lacing extending through a portion of the swab element and perforations provided in the wall of the ferrule.

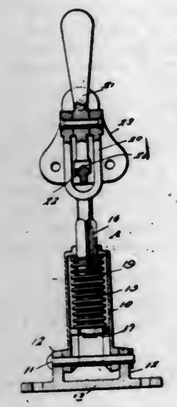
1,456,395. INSECTPROOF CUP FOR FURNITURE. WALTER MOLL and ADRIAN W. ANGEL, Evansville, Ind. Filed Aug. 14, 1922. Serial No. 581,812. 1 Claim. (Cl. 43—109.)

An attachment for the legs of articles of furniture comprising a cup member which is centrally bulged inwardly, and the wall between the center and the edge thereof rounded, said in-bulged portion being centrally provided with an opening surrounded by a flange whereby



the same may be arranged upon the leg of furniture provided with a caster, and said flange having integral prongs to enter and sustain the cup on the leg of the furniture.

1,456,396. HOOD CLAMP. FRANK MUELLER, Scranton, Pa., assignor to Mueller Engineering Company, Scranton, Pa., a Corporation of Pennsylvania. Filed May 18, 1922. Serial No. 561,885. 1 Claim. (Cl. 292—66.)

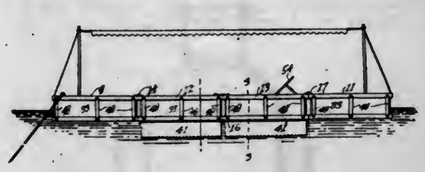


A hood clamp comprising a base, apertured lugs rising therefrom, a hollow member pivoted between said lugs, said member having a cylindrical outer surface and an angularly shaped inner surface and having a squared opening in the top thereof, a plunger slidable in said member and including spaced cylindrical portions and an intermediate squared portion to prevent turning of the plunger within the member, one of said cylindrical portions being threaded, an adjusting nut associated with said threaded portion and having a shape corresponding to the angular configuration of the interior of the member, the nut being held against rotation within the interior of said member, a spring surrounding the plunger and bearing against said nut and the upper end of said member, said spring being adjusted by the disconnection of said member from said base to permit the plunger to be depressed and rotated within the member but with respect to said nut, said rotation being effected by engagement of the other of said cylindrical portions of said plunger, within the squared opening of said member, a fork like terminal formed on the upper end of said plunger, and a handle pivoted on said fork.

1,456,397. FOLDING FLOAT. ANDREAS NIELSEN, San Juan Bautista, Calif. Filed June 19, 1922. Serial No. 569,413. 1 Claim. (Cl. 9—2.)

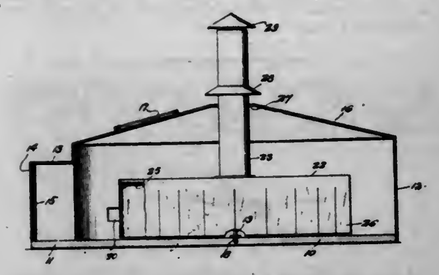
In a device of the character described, a series of collapsible floats comprising sections having a rigid deck and bottom, a flexible web extending between and secured to said deck and said bottom at the ends and sides, pivotal means for maintaining said deck and said

bottom in spaced relation to each other, means for injecting air into the interior of said float sections formed by said deck, said bottom and said web, and keel sections



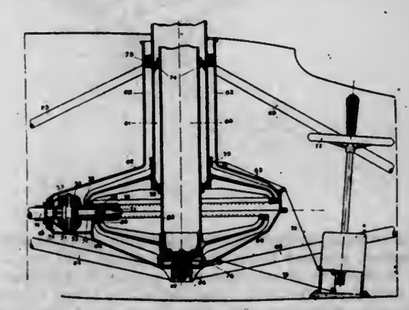
hinged to the opposite sides of said float sections, said keel sections being braced when open against swinging on their respective hinges.

1,456,398. BROODER. DAVID E. NOLAND, Marshall, Ind., assignor of one-half to George Timothy Alward, Marshall, Ind. Filed May 19, 1922. Serial No. 562,192. 5 Claims. (Cl. 119—33.)



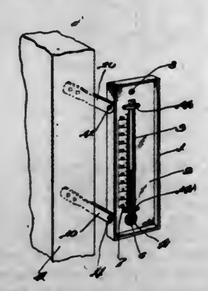
1. A brooder comprising a bottom, a side wall detachably mounted thereon and of cylindrical shape, a transparent door at the side wall, a frusto-conical top detachably mounted upon the side wall and provided with a sky light, a supporting post rising from the center of the base, a hover carried by said post and carrying a ventilating pipe extending through and beyond the top of the cover and a cap carried by the post and extending over the open end of the ventilating pipe in spaced relation thereto.

1,456,399. DIFFERENTIAL DRIVE FOR HELICOPTERS. RAUL PATERAS PESCARA, Barcelona, Spain. Filed Feb. 28, 1921. Serial No. 448,644. 2 Claims. (Cl. 244—19.)



1. A helicopter, having two oppositely rotating propellers, shafts for the respective propellers, one shaft being arranged within the other, a housing for the lower ends of the shafts, a rotatable connection between the inner shaft and the housing, bearings between the shafts adapted to prevent relative axial movement thereof, said housing having a cylindrical extension concentric with and enclosing the shafts, a bearing between said extension and the outer shaft, annular gear racks connected to the respective shafts, and a differential drive mounted in the housing beyond said annular racks and having pinions meshing with the respective racks for driving the propellers.

1,456,400. THERMOMETER. WILBER A. PHILLIPS, Muskegon, Mich. Filed Feb. 14, 1922. Serial No. 536,478. 3 Claims. (Cl. 73—52.)



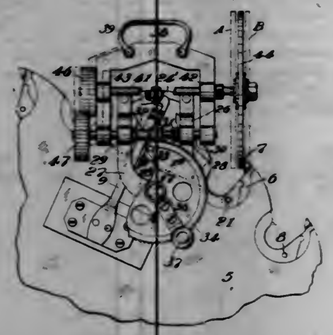
1. In a thermometer, a frame, a transparent panel carried by said frame and provided with a longitudinal slot, an indicating tube supported within said slot, said plate being graduated on each side surface along one edge of said slot, the graduations on one side of the plate being at the opposite side of the slot from the graduations on the opposite side of the plate.

1,456,401. SPOOL AND THIMBLE RACK. BUREN D. POWELL, Kosse, Tex. Filed Apr. 16, 1921. Serial No. 461,815. 1 Claim. (Cl. 211—17.)



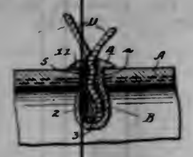
A rack having a base plate and flaps struck therefrom to form supporting fingers, each flap formed by cutting the base plate in substantially rectangular form, the base of the form being cut converging to form reentrant angles at either side, said cuts being spaced apart, the flap so formed being bent down away from the base plate and the side edges rolled to abutting position by bending in same downward direction that the sides of base of said flaps will engage base plate to maintain the fingers in position inclined upwardly from base plate.

1,456,402. SAW-SHARPENER. OSCAR RAMSEY, Anlauf, Oreg. Filed Apr. 4, 1922. Serial No. 549,647. 1 Claim. (Cl. 76—44.)



In a device of the character described, a substantially U-shaped frame adapted to engage the opposite sides of a saw, a depending substantially U shaped member secured to said first mentioned U shaped member, a worm gear mounted thereon, means for rotating said worm gear, a shaft secured on said second mentioned U shaped frame, a worm mounted on said shaft and adapted to be rotated by said worm gear, a yoke supported on said shaft, a grinding wheel supported on said yoke and adapted to be rotated by said first mentioned shaft.

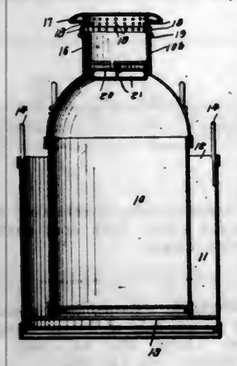
1,456,403. PROCESS OF REPAIRING OR CLOSING PUNCTURES IN PNEUMATIC TIRES AND PLUG FOR THAT PURPOSE. WILLIAM C. RANNEY, Elbridge, N. Y. Filed Mar. 25, 1920. Serial No. 368,588. 3 Claims. (Cl. 152—26.)



3. The herein described process of closing an opening through a fabric such as a pneumatic tire, which consists in inserting through the opening a plug having a hollow stem closed at its inner end and open at its other end, which consists in inserting the stem of the plug through the opening from the outside, then inserting a flexible fibrous material and cement into the stem of the plug and packing it therein on the inside of the fabric, thereby causing the inner portion of the stem to expand, and leaving the said packing within the stem to become set through the action of the cement.

1,456,404. MILK CAN. FRANK J. RAUH, Bakersfield, Calif. Filed June 9, 1921. Serial No. 476,260. 1 Claim. (Cl. 31—14.)

A milk can having a cover consisting of a relatively long cylindrical wall open at its lower end and provided with an overhanging cap, the upper portion of the wall being perforated for ventilation, a pair of studs carried by said wall adjacent its lower end, a ring formed with slots to receive the studs and thereby secure the ring to the cylinder, a screen carried by said ring, and flat vertically disposed breaker bars carried by said ring below said screen and in supporting relation therewith,



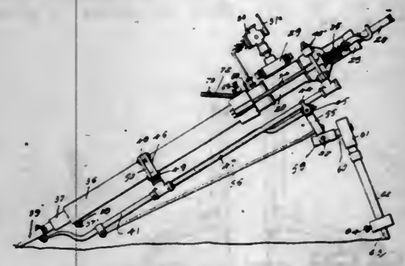
said bars being adapted to be gripped to rotate said ring to secure it in place or release it from the studs to permit its withdrawal from the cylinder.

1,456,405. SHUTTLE EYE. ADELARD E. RAVENELLE, Norwich, Conn. Filed Dec. 19, 1921. Serial No. 523,495. 1 Claim. (Cl. 139—46.)



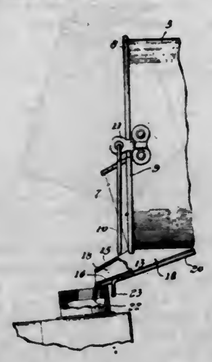
A shuttle eye having a longitudinally extending anchoring lug, said anchoring lug having a transversely rounded inner surface, said lug extending from said eye at one edge of the thread receiving slot thereof and being of a height sufficient to overlie the lower edge of the throat leading to the bobbin of a shuttle, and said lug being of substantial length and having its extremity sharpened to form an edge adapted to be driven into the wood of the shuttle to retain the eye in place.

1,456,406. DRILLING MACHINE. LEO A. REVOR, Lyon Mountain, N. Y. Filed Sept. 20, 1921. Serial No. 501,921. 18 Claims. (Cl. 255—51.)



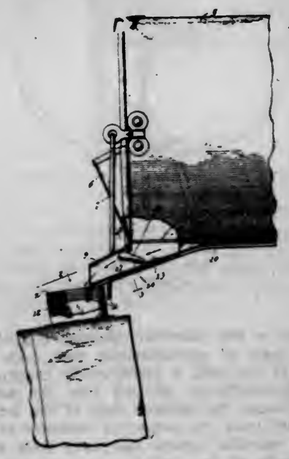
1. A drilling machine having a pressure operated drill mechanism, a tripod frame upon which the drill mechanism is mounted for movement in a path in alignment with that of the drill, one of the feet of the tripod having a thrust in alignment with the movement of the drill member, and means actuable by drill operating pressure for moving the drill mechanism away from said tripod foot.

1,456,407. BUCKET, PAIL, OR THE LIKE. ALBERT G. SCHERER, Chicago, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1921. Serial No. 490,441. 2 Claims. (Cl. 221—11.)



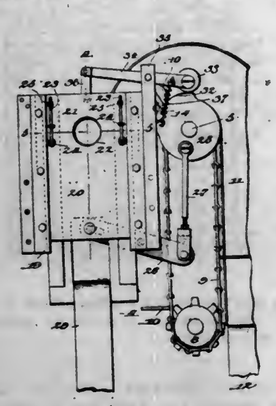
1. The combination with a receptacle having a discharge opening adjacent its top, a spout surrounding said opening and secured to the receptacle adjacent thereto, a reinforcing strap secured to said spout and extended down upon and secured to said receptacle, and a lateral projection upon the upper portion of said strap adjacent the lip of said spout.

1,456,408. SPOUT FOR BUCKETS. ALBERT G. SCHERER, Chicago, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1921. Serial No. 501,401. 3 Claims. (Cl. 221—11.)



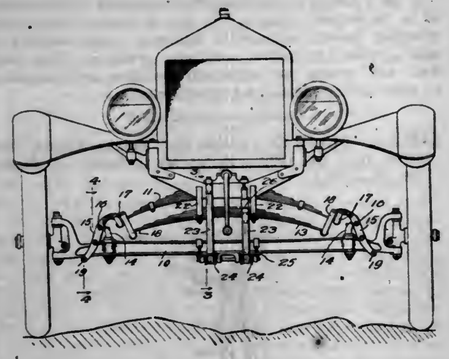
1. A spout for receptacles comprising a hollow casing open at opposite ends and suitably secured at one end to and communicating with a receptacle, and a baffle within said casing extending partly across the same in an oblique direction, whereby the stream of liquid passing through said casing is directed at an angle against a portion of the spout wall to cause an eddy in the stream and reduce the velocity of flow at the discharge end of the spout.

1,456,409. CAN-COVERING MACHINE. ALOIS J. STEINER, Hoboken, N. J. Filed Mar. 20, 1920. Serial No. 367,569. 8 Claims. (Cl. 113—14.)



1. In a machine for placing covers on receptacles, the combination of a plate, means for feeding a recpetacle on to said plate, means for feeding a cover over said receptacle and preventing upward movement of said cover, said means including a pair of members and lost motion means connecting said members, and means for raising said receptacle to insert its upper end into frictional engagement with said cover.

1,456,410. SPRING FOR AUTOMOBILES. HARRY R. WARREN, Wabuska, Nev. Filed Aug. 19, 1921. Serial No. 493,739. 2 Claims. (Cl. 267—45.)

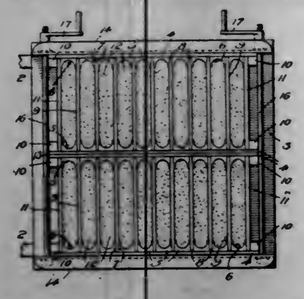


2. The combination of a vehicle axle, a plurality of leaf-springs normally spaced from one another and from the axle, a single connection between the like ends of the springs and the axle, at each end thereof, comprising an arm secured to the axle, links between the arm and the spring ends, and a perch on the axle to which said arm is attached at a point between the axle and the links.

1,456,411. MULTIPLE-STAVE MOLD. JOHN WRIGHT WARREN, Elizabethton, Tenn. Filed Oct. 10, 1922. Serial No. 593,561. 3 Claims. (Cl. 25—121.)

1. An apparatus of the class described including in combination a freely portable platform, rockers support-

ing said platform and spaced apart, the space beneath said platform and between said rockers being unob-



structed in order to permit a lifting truck to be inserted beneath the platform, and a series of removable molds carried by said platform.

1,456,412. CHAIN HOLDER. WILLIAM HENRY WATT, Jr., West Newton, Pa. Filed Feb. 6, 1922, Serial No. 534,544. Renewed Oct. 23, 1922. Serial No. 596,461. 3 Claims. (Cl. 152—14.)



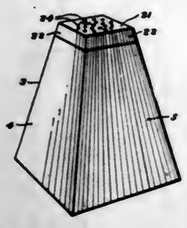
1. In a device of the character described, a ring adapted to be secured about a hub cap, a circular supporting structure loosely mounted in said ring, a disc secured to said circular structure, members radiating from said disc, and means for detachably securing said members at their outer ends to an anti-skid chain.

1,456,413. FLYTRAP. JAMES F. WEBSTER, Colfax, Ind. Filed June 26, 1922. Serial No. 570,832. 1 Claim. (Cl. 43—119.)



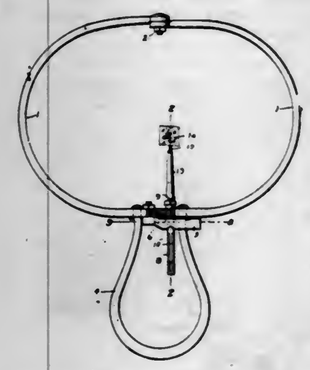
In a fly trap, the combination with a screen door, of a foraminous body carried thereby and forming an entrance compartment, one side of said foraminous body provided with a plurality of transverse inwardly extending leads, a confining compartment hingedly connected to the screen door by means of hinges, and a removable hinge pintle to permit detachment of the confining compartment from the screen door, and a plurality of leads leading into the confining compartment from said entrance compartment.

1,456,414. CASTER. HERBERT P. WEIERMAN, Philadelphia, Pa. Filed May 31, 1922. Serial No. 564,772. 1 Claim. (Cl. 229—17.)



As a new article of manufacture, a caster formed from a single blank of foldable material divided by creasings into four contiguous and equal sides, a securing flap extending from the edge of one of said sides, a pair of bottom elements extending from the ends of the extreme sides and provided with securing flaps so arranged that the flaps of one bottom element will join said element to the two middle sides and the flaps of the other bottom element will join said other bottom element along the creasing of the first said bottom element and the adjoining closure, said caster also including a perforated top section extending from the end of one of said middle sides and provided with securing flaps at its three free edges.

1,456,415. ANIMAL TRAP. JOSEPH R. WILSON, Salt Lake City, Utah. Filed Oct. 11, 1921. Serial No. 506,974. 9 Claims. (Cl. 43—88.)

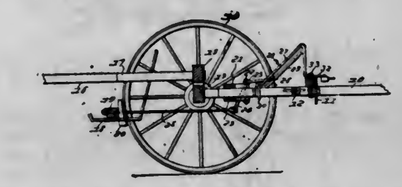


1. A trap of the character specified, comprising complemental jaws of approximately bow form pivotally connected at one end, a substantially U-shaped spring arranged approximately parallel with the axis of the jaws and having the opposite ends of the latter pivotally mounted upon the respective members of the said spring and movable towards and away from each other with the ends of the spring when expanded and contracted, a latch for holding the jaws open against the tension of said spring, and a locking mechanism in cooperative relation with said latch.

1,456,416. AUTOMATIC VEHICLE BRAKE. JOHN D. WORKMAN, Elliottsville, Pa. Filed Dec. 4, 1919. Serial No. 342,453. 1 Claim. (Cl. 188—122.)

An automatic brake mechanism for vehicles having a draught gear consisting of a front axle, hounds ex-

tending forwardly from said axle, a brake beam extending transversely in rear of said axle, plates carried by the said hounds in advance of the front axle, a guide mounted upon the hounds, a draught element slidably mounted in said guide and extending rearwardly between said plates, a double tree, a clevis having a guide ring engaging the draught element and provided at its forward end with a hammer bolt engaging said double tree and draught element, a crank shaft having spindle portions and an intermediate arched portion of which



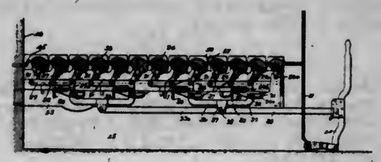
the former are mounted upon one of said plates and provided with terminal arms connected with said brake beam, and cams carried by the clevis in engagement with the intermediate arched portion of the crank shaft and disposed in inclined relation to the path of the draught element for imparting swinging movement in opposite directions to said crank shaft.

1,456,417. AIR MOISTENER. ALBERTO BEMENT, Chicago, Ill. Filed Jan. 21, 1921. Serial No. 438,869. 9 Claims. (Cl. 183—40.)



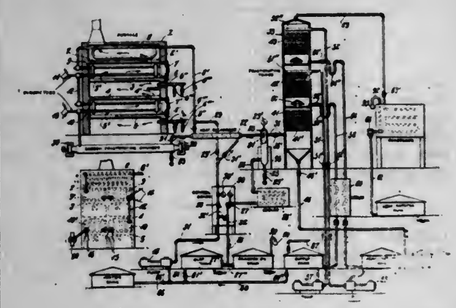
1. In an air moistener, a substantially thimble-shaped body of loose asbestos packing, means for admitting steam to the bore thereof, and retaining means for maintaining the packing in its thimble-shaped form while permitting the percolating of steam through the side portions thereof; the said retaining means including a tube of sheet asbestos and a foraminous metal tube both disposed outside of the said packing.

1,456,418. FURNACE GRATE. HENRY BENTON, Elizabethport, N. J. Filed Feb. 24, 1921. Serial No. 447,523. 2 Claims. (Cl. 126—177.)



1. In a furnace grate, swingably mounted cross bars, grate bars above said cross bars and arranged parallel therewith, means supporting the grate bars for rocking movement on the cross bars, reciprocating operating means pivotally connected with the grate bars for shaking the same, and members on the cross bars, said operating means having clearance in said members on the cross bars in the shaking of the grate bars and engageable with said members by an excessive movement of said operating means for dumping the grate bars; together with means to adjustably secure said members on the cross bars to regulate the clearance and engagement of the operating means with said members.

1,456,419. PROCESS AND APPARATUS FOR THE PRODUCTION OF LOW BOILING POINT HYDROCARBONS. JOHN C. BLACK, Destrehan, La. Filed June 20, 1922. Serial No. 569,757. 25 Claims. (Cl. 196—25.)



13. In an apparatus for treating oil, a source of supply, heating coils and conpections between the supply and coils, an oil by-pass trap, a discharge tank and discharge connections from the coils to the trap and from the trap to the tank, said supply connections and discharge connections having a by-pass between them with a valve therein whereby the supply of oil may be switched from the supply to the discharge connections without passing through the coils or trap.

17. A process of cracking hydrocarbons which comprises forcing them through preliminary heating coils arranged in series relation relative to each other, where the hydrocarbons are heated to substantially the maximum temperature to be employed in the cracking operation, then passing them through a final heating coil wherein the temperature is maintained at the said maximum temperature and heat is supplied to the hydrocarbons to at least equal that rendered latent by the endothermic reaction of the cracking, thereby subjecting the hydrocarbon to a prolonged period of heating at said maximum temperature whereby substantially maximum conversion is obtained for the temperature employed and time of reaction, then passing the hydrocarbons to a carbon precipitating chamber wherein the rate of flow of the hydrocarbons is reduced to permit of the separation of the carbonaceous material of reaction while the hydrocarbons are maintained under sufficient pressure to maintain them in a liquid state whereby the carbonaceous material is deposited in a condition easily removed, then discharging them through a pressure regulating valve into a fractionating apparatus to separate the hydrocarbons of different boiling points.

1,456,420. STORAGE-BATTERY CONNECTION. BAUCE B. BLACKBURN, St. Petersburg, Fla. Filed Jan. 11, 1921. Serial No. 436,618. 2 Claims. (Cl. 204—29.)

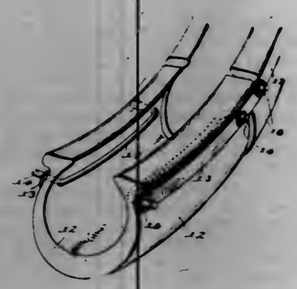
2. A battery connection comprising an arm having an upwardly opening cupped extension formed on the upper side of one end thereof, a vertically disposed pin ar-

ranged concentrically of said extension having a head formed on its lower end embedded in the bottom of said extension, the shank portion of said pin being bifurcated and having its opposite sides arranged in divergent fashion, the upper extremities of the bifurcated portions of said pin being arranged slightly below the upper



marginal portion of said cupped extension and a connector comprising a curved arm having a sleeve on one end thereof adapted to be engaged over the divergent bifurcated portions of said pin, the remaining end of said curved arm being arranged in a plane lower than the arrangement of the opposite end thereof.

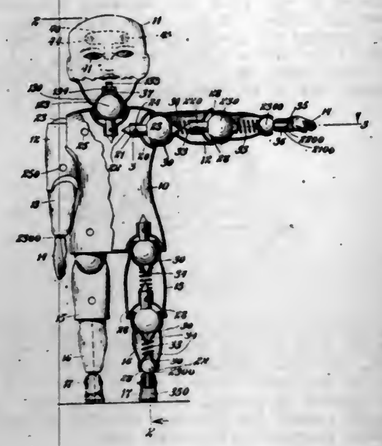
1,456,421. TIRE ARMOR. LAWRENCE C. BONIFACINO and MATILDA B. IRBY, Baltimore, Md. Filed Mar. 20, 1922. Serial No. 545,121. 2 Claims. (Cl. 152—16.)



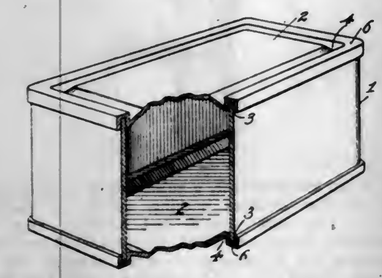
2. A tire protector or armor consisting of a circumferential series of segmental protector sections to embrace the periphery of a tire, side rings connecting the protector sections in the circumferential series and each including a series of endwise overlapping and pivotally connected straps one strap to each of the protector sections, and means for connecting each strap to its respective protector section, said means including bars extending along the inner surfaces of the side walls of the protector sections, having outturned end extensions projecting through the side walls of the protector sections, the said strap sections having apertures to receive said extensions and said extensions having apertures and cotter pins through the apertures of the extensions to hold the strap sections in place.

1,456,422. JOINTED DOLL. CHARLES CÁBANA, Buffalo, N. Y. Filed May 17, 1920. Serial No. 381,810. 13 Claims. (Cl. 46—40.)

2. A jointed doll comprising a member provided with a ball, a pair of limb sections of substantially semi-cylindrical form, and a substantially semi-spherical socket cup-section extending inwardly from and integrally connected with the outer end of each of said limb sections.



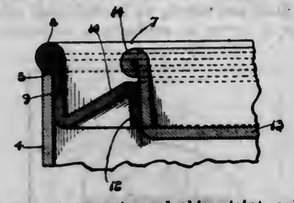
1,456,423. PAPER OR PULP CONTAINER. FREDERICK COATES, Wyoming, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 29, 1920. Serial No. 377,702. 4 Claims. (Cl. 229—5.8.)



1. A paper or pulp container comprising a paper or pulp tube or shell having its head or end formed from a single piece of paper or pulp dished outwardly and having a preformed channel upon its edge adapted to receive and engage the edge and reverse side of said shell, and means for holding said head and shell from accidental disengagement, substantially as set forth and for the purposes specified.

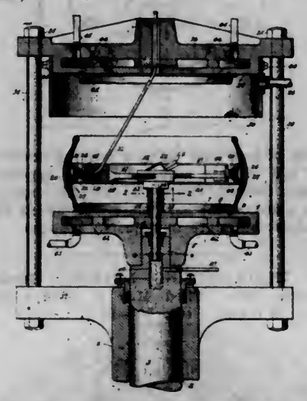
1,456,424. PAPER OR PULP CONTAINER. FREDERICK COATES, Wyoming, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 21, 1920. Serial No. 390,615. 2 Claims. (Cl. 229—5.8.)

1. A paper or pulp container comprising a paper or pulp body having an inwardly beveled end, a paper or pulp cup shaped head having a tubular edge adapted to form wedging engagement with said beveled end and having an adhesive interposed between said body and



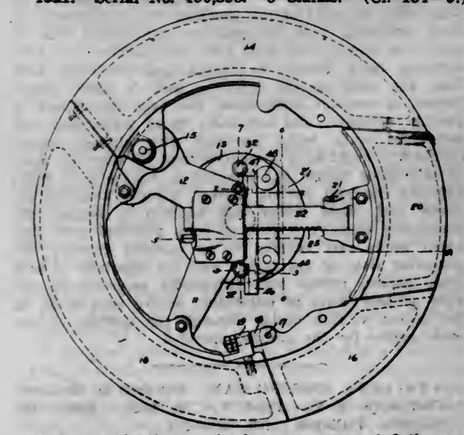
head to form a permanent non-leaking joint, substantially as set forth and for the purposes specified.

1,456,425. MACHINE FOR FORMING PNEUMATIC TIRES. BARTHOLD DE MATTIA, Clifton, N. J. Filed Feb. 4, 1920. Serial No. 356,209. 9 Claims. (Cl. 154—10.)



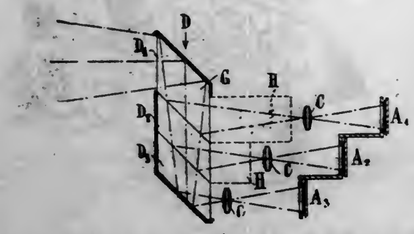
2. In a machine of the class described, in combination, a table or support, a cross-head co-operating therewith, means for raising or lowering the table or support, means for expanding a tire blank, and fluid pressure means to raise or lower the expanding means toward and from the upper surface of the table.

1,456,426. CORE AND CHUCK. PETER DE MATTIA and BARTHOLD DE MATTIA, Clifton, N. J. Filed Aug. 6, 1921. Serial No. 490,893. 6 Claims. (Cl. 154—9.)



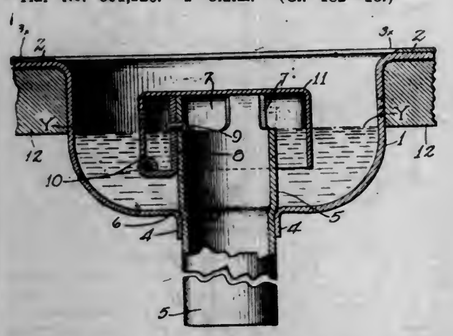
5. In combination, a chuck, a core supported thereon, a table or support for the chuck, a pair of notched studs carried by the table and projecting through openings in the chuck, a sliding bolt carried by the chuck, a clearance notch near one end of said bolt for clearing one of the studs so positioned that when brought into clearance position the opposite end of the bolt will clear the other stud.

1,456,427. OPTICAL SYSTEM FOR PHOTOGRAPHIC CAMERAS. SERGE MICHAEL DE PROCOUDINE-GORSKY, Nice, France. Filed May 11, 1922. Serial No. 560,227. 5 Claims. (Cl. 88—1.)



1. An optical system for a photographic camera comprising a sensitive medium a series of rhomboidal prisms forming a combination rhomboidal prism for reflecting the light rays from the object to form three identical images on three picture areas of a sensitive medium, the parallel faces of the said prisms, which are coplanar, being provided with a substance having a refractive index differing from that of the glass, to act as a partial reflector.

1,456,428. TRAP FOR REFRIGERATOR CARS. PAUL S. DOUGHERTY, Chicago, Ill. Filed Sept. 28, 1922. Serial No. 591,126. 1 Claim. (Cl. 182—13.)

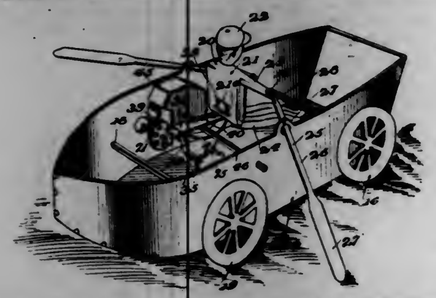


A trap for refrigerator cars comprising a pressed metal bowl-shaped receptacle, a drain pipe projected through the bottom of said receptacle, the upper edge of the drain pipe terminating short of the upper edge of the receptacle and having a plurality of cut away portions extending downwardly therefrom, a hinge strap secured to said pipe adjacent its upper edge, and a pressed metal cap having an integral hinge portion arranged to engage with the hinge strap on said pipe, whereby said cap is held in a predetermined spaced relation from the side of the drain pipe when said cap is hinged downwardly upon the pipe.

1,456,429. LAND AND WATER TOY. JOSEPH L. DUGGAN, Sparrows Point, Md. Filed June 29, 1921. Serial No. 481,285. 4 Claims. (Cl. 46—45.)

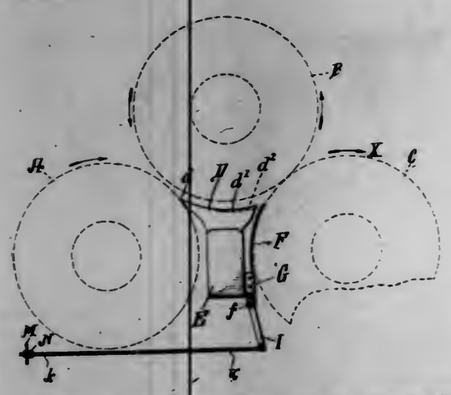
1. In a toy of the character described, a boat body, a fixed axle carried at one end of said body, wheels rotatably mounted on said fixed axle, a drive axle mounted at the other end of the body, traction wheels fixed to

said drive axle, an animated figure simulating an oarsman arranged in said body and including a body portion and legs pivotally connected thereto, a pair of oars operated by the animated figure, means for causing said animated figure to partake of a rowing motion including a crank shaft, a spring motor for driving said crank shaft including a winding shaft, a spring barrel rotatable on said winding shaft, a coil spring having one



end connected to said spring barrel and the other end connected to said winding shaft, and means for preventing retrograde movement of the winding shaft, a link including a rocking lever having a sliding fulcrum on the winding shaft and connected at one end with the crank shaft and at the other end with the body portion of the animated figure, and a retaining bar for preventing displacement of the link from the winding shaft, and gearing for driving the drive axle from the crank shaft.

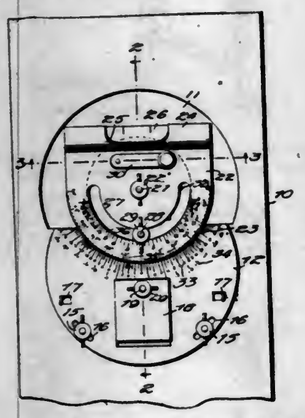
1,456,430. JUICE-SAVING ATTACHMENT FOR CANE MILLS. JAMES FISHER, New Orleans, La. Filed Dec. 26, 1922. Serial No. 609,061. 3 Claims. (Cl. 100—47.)



1. A juice saving attachment for three-roller mills comprising a turn plate mounted between the receiving roller and the bagasse roller, and having its upper surface curved in a transverse direction substantially parallel with the curvature of the top roller, said turn plate being provided on its upper surface with a series of grooves, inclined downwards and rearwards, adapted to receive the free juice carried along with the bagasse, and a deflector plate engaging the surface of the bagasse roller opposite the rear upper edge of said turn plate.

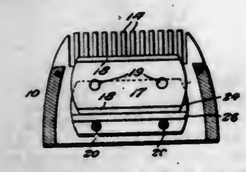
1,456,431. LEVEL AND PLUMB. DANIEL W. L. FRANK, Chicago, Ill. Filed Apr. 9, 1921. Serial No. 460,010. 5 Claims. (Cl. 33—213.)

1. In a device of the character described, in combination with a supporting element, a base plate mounted thereon and having a plurality of arcuate series of graduations thereon, an adjustable plate superposed on said base plate and having an arcuate edge provided with a plurality of series of graduations cooperable with the



graduations of said base plate, a leveling device mounted upon the end of said adjustable plate opposite to the arcuate edge thereof, means for pivotally supporting the adjustable plate on the base plate, and means for retaining the adjustable plate in adjusted position.

1,456,432. HAIR-CUTTING DEVICE. HENRY FROH, Cincinnati, Ohio. Filed May 9, 1921. Serial No. 468,074. 1 Claim. (Cl. 30—12.)

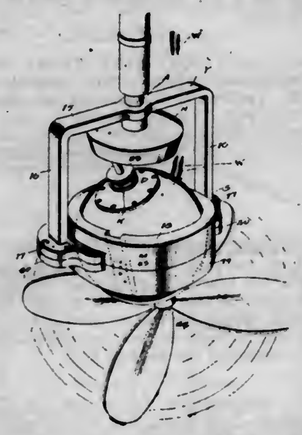


A hair cutting tool embodying a casing including spaced walls connected together adjacent one longitudinal edge and each transverse edge forming a pocket there between and each wall being provided with a pair of elongated slots, the slots of one wall being designed to align with the slots of the opposing wall, a plurality of teeth extending from the opposite longitudinal edge of each wall and having their free ends beveled, one wall carrying teeth shorter in length and relatively finer than the teeth of the opposing wall, a blade holder formed of resilient sheet metal and bent upon itself to provide oppositely and outwardly flared walls, said last mentioned walls being provided with aligned spaced openings, a cushioning element secured between the walls of said blade holder and adapted to engage both walls adjacent the bent portion thereof, a blade arranged between said blade holder and adapted to engage the cushioning element, a pair of bolts provided with flattened heads and adapted to be inserted through the elongated slots of the casing and the openings of said blade holder, thumb nuts threadedly mounted on the ends of said bolts to adjustably secure said blade in the pocket of said casing through the medium of the blade holder for the purpose specified.

1,456,433. CEILING FAN. MAURICE M. GLASSER, Charleston, S. C. Filed Nov. 8, 1921. Serial No. 513,806. 7 Claims. (Cl. 230—1.)

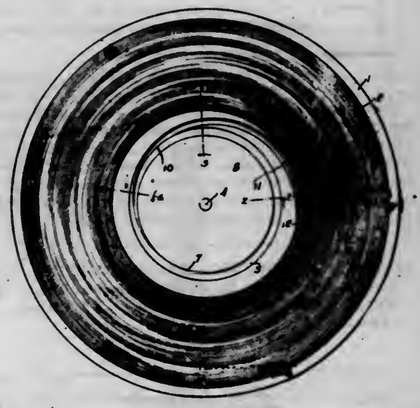
1. A fan comprising a supporting yoke, a socket carried by the yoke, a motor casing of spherical form mounted

in the socket, a motor shaft extending from the casing, a fan wheel on the shaft, a counter-shaft operatively connected to the motor shaft, a gear fixed to the yoke,



and a pinion on the counter-shaft and constantly meshing with the gear whereby said gear operates to move the motor casing relatively to the socket with a resultant oscillation of the fan wheel.

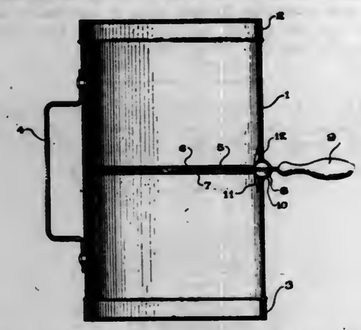
1,456,434. PHONOGRAPH RECORD. WALTER C. HADLEY, New York, N. Y. Filed July 20, 1921. Serial No. 486,150. 3 Claims. (Cl. 274—41.)



1. In a record for sound reproduction, a section thereof adapted to receive a movable stylus and having predetermined limits, within which limits the stylus is operative to actuate an automatic stop device, said section having the bottom thereof inclined with respect to the plane of the record whereby it serves to give the stylus a rapid radial movement.

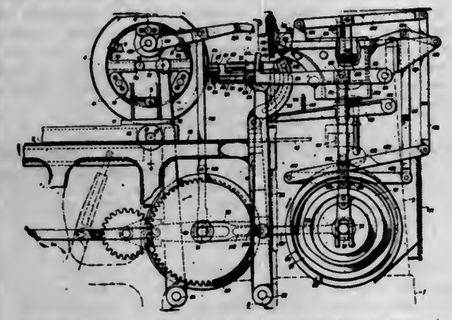
1,456,435. SIFTER. MINNIE HAGEN, Ellinwood, Kans. Filed Sept. 16, 1922. Serial No. 588,671. 1 Claim. (Cl. 83—60.)

A sifter of the class described comprising a receptacle having movable end walls, spaced metallic sifting members centrally arranged within the receptacle and having their ends twisted together, a wire gauze secured to the side walls of the receptacle and being arranged between the sifting members, a portion of a socket formed in said receptacle intermediate of its ends and being provided with a transverse elongated opening, a plate secured within the receptacle and having the other portion of the socket formed therein, and being provided with an



elongated opening registering with the first mentioned opening, a pair of semi-spherical members loosely positioned in the socket and being adapted to have passed therebetween the twisted ends of the sifting members which pass through the openings and extending exteriorly of the receptacle and a handle carried by the extending ends.

1,456,436. TYPOGRAPHICAL MACHINE. ANDREW HELDRICH, Philadelphia, Pa., assignor to Cade Manufacturing Company, Shelby, N. C., a Corporation of North Carolina. Filed Apr. 4, 1921. Serial No. 458,447. 40 Claims. (Cl. 199—11.)



19. In a typographical machine, a matrix-gatherer comprising a table having a channel therein, a set of matrix-receivers contained in said channel and having upstanding matrix-holders to support matrices with their bodies projecting above the surface of said table, the matrix-receivers being relatively shiftable longitudinally in said channel to gather together and spread apart the matrices carried thereby, and a member movable across the top of said channel to shift the matrices in a direction transversely thereof.

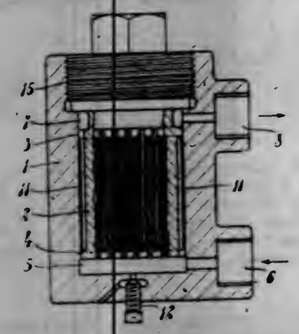
1,456,437. PIPE DRAIN. AARON HESS, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,109. 1 Claim. (Cl. 131—12.)



A drain for smoke pipes comprising a hollow body formed with a flange extending from the body, an exten-

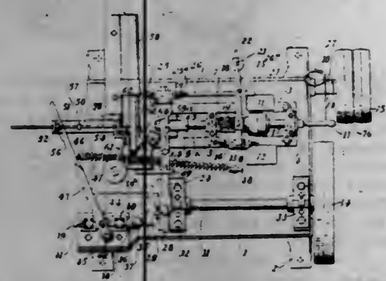
sion projecting from said flange, and an annular flange extending axially of the body, a cap pivotally connected with said extension formed with a depression adapted to fit over the second mentioned flange, and means for locking the cap in a closed position.

1,456,438. LIQUID FILTER. KNUT JONAS ELIAS HESSELMAN, Saltsjo-Storangen, Sweden. Filed July 28, 1922. Serial No. 578,153. 2 Claims. (Cl. 210—165.)



1. A liquid filter, particularly for filtering fuel oils under high pressure for internal combustion engines, comprising in combination a casing having a boring therein, an inlet and an outlet, a plug fitted in said boring having alternate external grooves connected to said inlet and said outlet, the partition walls between said grooves having ground off edges so as to form narrow air spaces between the grooves and the wall of said boring to constitute filtering passages between adjacent grooves.

1,456,439. THREAD-CUTTING MACHINE. FREDERICK W. HESSMER, Jersey City, N. J., assignor to American Musical Supply Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 6, 1919. Serial No. 328,761. 6 Claims. (Cl. 10—89.)



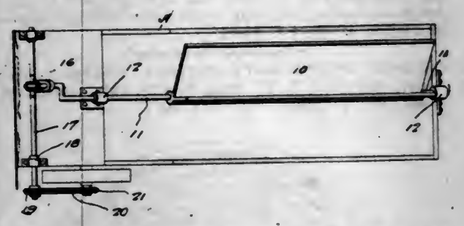
6. In a thread cutting device of the character as described, the combination of the arm holding the cutting die, said arm being pivotally arranged at one of its ends upon the supporting frame and being provided at its other end with a guide wheel sliding upon an excentric cam causing the arm to move alternately in a down and upward direction, a rod rigidly secured to the arm in the axis of its pivots and being journaled at its other end, said rod running parallel to the main shaft, an upwardly directed projection secured to said rod, another arm, holding the die to fit the lead screw, pivotally secured at its end opposite to the pivot, of the arm referred to above, a weight acting upon said arm at its end to hold it down upon the projection on the rod, this latter arm being lifted simultaneously with the arm holding the cutting die, thereby allowing the spring acting at the end of the main shaft to move it back to its original position.

1,456,440. FLASH-LIGHT ATTACHMENT FOR GUNS. JOHN PAUL HIER, Hightown, Va. Filed Mar. 3, 1922. Serial No. 540,785. 2 Claims. (Cl. 240—8.4.)



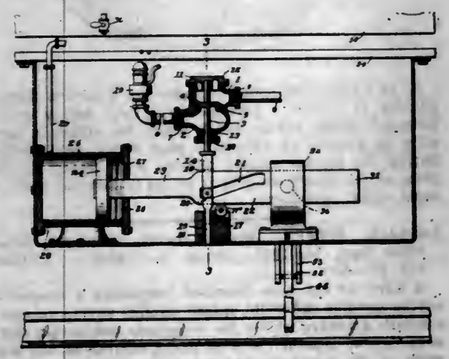
1. A flashlight attachment for fire arms having a tubular guide and means for attaching the same to the barrel of a fire arm, and a lighting unit slidably and removably fitted in said guide, the lighting unit having an exteriorly projecting switch button, and the guide having a cam for actuating said button upon the longitudinal movement of the lighting unit.

1,456,441. THRASHING-MACHINE ATTACHMENT. ORVILLE HOFFMAN, Modoc, Ill. Filed Oct. 16, 1922. Serial No. 594,881. 1 Claim. (Cl. 130—1.)



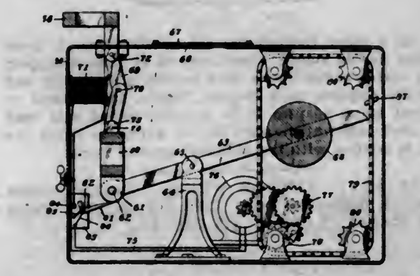
In a thrashing machine feeder, a frame with a dividing board therein forming compartments on opposite sides thereof, in combination with an oscillating trough pivotally mounted above and in line with said dividing board, and mechanism connected with said trough and frame for oscillating said trough so as to alternately cover or uncover said compartments.

1,456,442. AUTOMATIC TRAIN-STOPPING APPARATUS. CHARLES C. HOLE, Fremont, Nebr. Filed May 1, 1922. Serial No. 557,645. 23 Claims. (Cl. 246—200.)



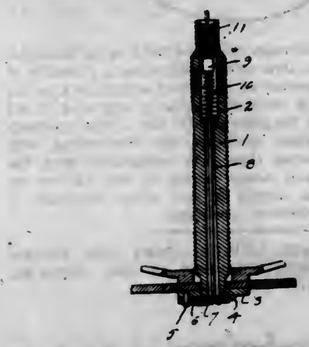
10. A train stopping apparatus, including a controlling valve having a reciprocatory stem, a reciprocatory member having an inclined slot, means carried by the stem for engaging the slot whereby the movement of the member will reciprocate the stem to open or close the valve, means for actuating the member, locking means for holding the member to maintain the valve normally in its closed position, and tripping mechanism for releasing the locking means.

1,456,443. TRACK DEVICE FOR AUTOMATIC TRAIN-STOPPING APPARATUS. CHARLES C. HOLE, Fremont, Nebr. Original application filed May 1, 1922, Serial No. 557,645. Divided and this application filed May 3, 1922. Serial No. 558,076. 15 Claims. (Cl. 246—202.)



4. A train stopping apparatus, including a track device comprising a casing having guide openings, a frame movable through the said openings, a tripping head carried by the frame and arranged exteriorly of the casing, means for actuating the frame for moving the head outwardly, a toggle connected with the casing and the frame, and an electro-magnet adapted, when energised, to hold the toggle and when de-energised to release the toggle and permit outward movement of the tripping head.

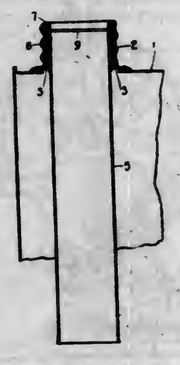
1,456,444. AIR VALVE FOR INNER TUBES. STEVEN HOLICK, Millsboro, Pa. Filed July 14, 1921. Serial No. 484,653. 3 Claims. (Cl. 152—12.)



2. An air valve of the character specified comprising a tubular stem, a flap valve at the inner end of the tubular stem, a plate disposed exterior to the valve and having a central opening and a finger having its extremity extending through the opening of the plate and engaging the valve.

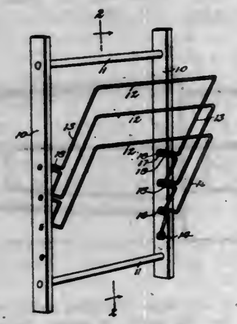
1,456,445. SPOUT. PERCY NICHOLAS HOOPER, London, England. Filed Jan. 26, 1921. Serial No. 440,074. 2 Claims. (Cl. 221—27.)

1. The combination with the head of a can, of a plate having a central opening therein, a lip curved in cross-section bounding the said opening, a spout having one end seated on the said plate and having at its other end an internal flange provided with a lip curved in cross-section, a tubular part slidably mounted in the openings



bounded by the said curved lips, and a bar mounted within the said tubular part adjacent to one end thereof accessible from outside the can.

1,456,446. DISPLAY RACK. OMAR JACOB HOTALING, East Orange, N. J. Filed Apr. 27, 1922. Serial No. 556,934. 4 Claims. (Cl. 211—14.)

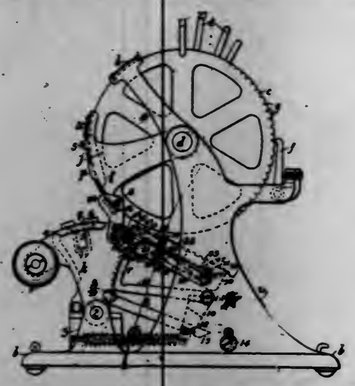


2. A display rack embodying spaced parallel supporting elements, a plurality of inverted U-shaped members having pivotal connection with and disposed between the supporting elements in superposed relation, and means coacting respectively with the pivotal connection of each member and with the member above said pivots for retaining the same in angularly adjusted positions.

1,456,447. MACHINE FOR MARKING GARMENTS. CHARLES EDWARD JENNER, London, England, assignor, by direct and mesne assignments, of one-half to George Albert Crosland and one-fourth to Alfred Lansdell Jenner, both of London, England. Filed July 27, 1922. Serial No. 577,927. 2 Claims. (Cl. 101—97.)

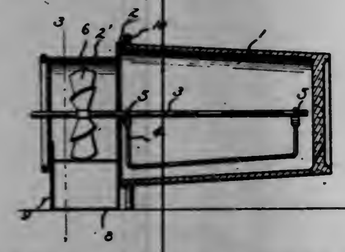
1. In a machine for marking garments for laundry purposes, in combination a pair of side frames mounted on a suitable base, a plurality of rotatable discs, marking letters numerals and signs inscribed on the peripheries of said discs, a fixed axis supported in said frames and upon which said discs are mounted, an indicator carried by said frames, means also carried by said frames for retaining the said discs in operative position for marking purposes, a quadrantal sheet metal shield mounted upon the aforesaid fixed axis an oscillatory quadrantal member mounted on the aforesaid base and coacting with said quadrantal sheet metal shield, an inking device carried by said oscillatory member and said side frames, means also carried by said oscillatory member to operate said

inking device and to withdraw same after each inking operation, a hammer pivotally mounted on one of the



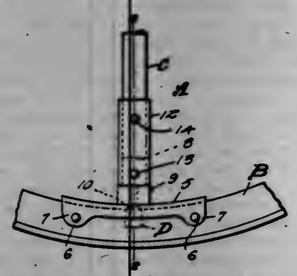
said side frames, trip mechanism carried by said oscillatory member and means for actuating said trip mechanism to operate said hammer.

1,456,448. EGG BEATER. CHRISTIAN E. JENSEN, Cuyahoga Falls, Ohio. Filed Aug. 28, 1922. Serial No. 584,881. 2 Claims. (Cl. 259—109.)



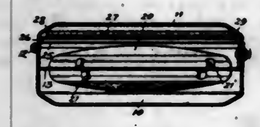
1. A device of the class described comprising a receptacle, a cover for the same, a casing formed with the cover and having an extension at its lower part providing an exhaust and a rest for the casing also having an inlet opening adjacent one side thereof, a shaft passing through the casing and into the receptacle, a water wheel on the shaft and arranged in the casing, and a beater on the shaft.

1,456,449. REPAIR SPOKE SOCKET. MOSES K. JOHNSON, Unadilla, Ga. Filed Aug. 1, 1922. Serial No. 579,010. 3 Claims. (Cl. 301—70.)



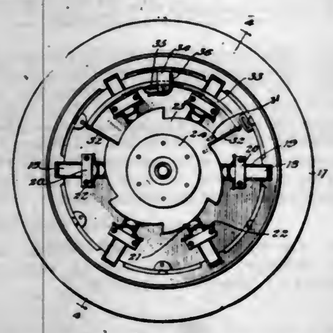
3. A fastening device to secure a spoke to a felly consisting of a plate attachable to the felly, a stud extending from the plate in continuation of the spoke intermediate the spoke and felly, said stud having a shoulder, clamping plates surrounding said spoke and stud with ends in abutment with said shoulder, and fastening means passing through said plates, studs and spoke.

1,456,450. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed Jan. 4, 1923. Serial No. 610,615. 2 Claims. (Cl. 132—83.)



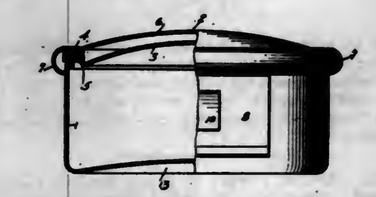
1. In a cover construction for vanity cases, a cover member having angular faces adapted to form a support for a mirror or the like, a bead formed in said cover and inwardly disposed with respect thereto, and a bezel of resilient metal adapted to be received behind said bead and exert sufficient pressure on the mirror to retain the same in contact with the aforesaid angular faces.

1,456,451. VEHICLE WHEEL. EDWARD JOSEPH KRPATA, Higganum, Conn. Filed Apr. 18, 1922. Serial No. 554,843. 3 Claims. (Cl. 301—28.)



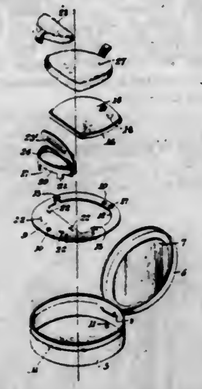
1. A device of the class described for locking demountable rims on wheel structures, comprising a plurality of latches slidably mounted on the wheel structure, a spring associated with each latch for normally retaining it out of engagement with the demountable rim, a cam rotatably mounted on the wheel structure and cooperating with the latches for forcing them into engagement with the demountable rim, and means carried by the cam for engaging with means carried by the wheel structure to retain the cam in different positions.

1,456,452. MASSAGE DEVICE. JOHN OLOF LINDEN, Albuquerque, N. Mex. Filed Sept. 13, 1921. Serial No. 500,332. 8 Claims. (Cl. 125—60.)



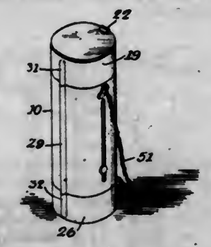
1. A massage device, comprising an open top receptacle, and a chambered cover closing said receptacle, said cover being locked to the receptacle and provided at its sides with means for protecting the hands of the user.

1,456,453. REFILL FOR VANITY CASES. WILLIAM LINDENMAYER, New York, N. Y. Filed Nov. 20, 1922. Serial No. 602,201. 9 Claims. (Cl. 132—83.)



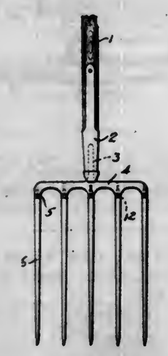
6. In a toilet case device, a case, a refill plate having an opening stamped therein, said opening having a curved edge and a straight edge, said plate having upstanding tongues stamped from its material adjacent to the curved edge, said tongues being substantially oppositely arranged, said plate being provided in its solid portion adjacent to its straight edge with spaced slits, a rouge box formed of the material obtained in stamping the opening in the refill plate, said rouge box having a straight edge arranged opposite the straight edge of said opening and having a curved edge, said rouge box having depending strips passing through said slits and bent horizontally, and a cover hinged upon the straight edge of the rouge box and having an extension projecting toward the straight edge of the opening, and a powder compact removably mounted upon the refill plate and held in place over said opening by said tongues.

1,456,454. TOILET CASE. WILLIAM LINDENMAYER, New York, N. Y. Filed Dec. 13, 1922. Serial No. 606,614. 2 Claims. (Cl. 132—83.)



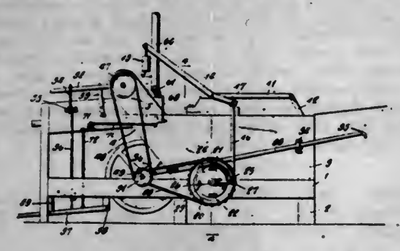
1. A toilet case comprising a relatively long tubular body portion adapted for receiving a relatively long powder compact and having its forward end open, a feeding element mounted at the rear end of the powder compact within the tubular body portion to advance the same forwardly and having angularly arranged resilient extensions which are inclined rearwardly and have frictional engagement with the inner wall of said tubular body portion, said angularly arranged extensions permitting of the forward movement of the feeding device while opposing its rearward movement with respect to the tubular body portion, means extending exteriorly of the tubular body portion, to move the feed device forwardly within the tubular body portion, a rouge compact receiving receptacle pivotally connected with the forward open end of the tubular body portion and having its bottom adapted to cover the same, and a lid pivotally connected with the open end of the rouge receptacle to cover the same and provided upon its inner side with a mirror.

1,456,455. PITCHFORK. ERIC LUUKKONEN, New York, N. Y. Filed Nov. 1, 1921. Serial No. 512,030. 1 Claim. (Cl. 294—49.)



In a pitch fork of the character described, a cross-bar provided with a plurality of sockets each presenting at the front thereof an annular rounded shoulder, each of said sockets being in line with a bore extending through the cross-bar to the side opposite the side of the sockets, a tine having an end shaped to fit in said socket and presenting a shoulder to mate with the shoulder of the socket arranged therein, said bore being adapted to receive a tool for ejecting from the socket said tine when a change of the same is desired.

1,456,456. FRUIT-WASHING MACHINE. LAURITZ N. MILLER, Eugene, Oreg. Filed Dec. 21, 1922. Serial No. 608,271. 5 Claims. (Cl. 146—194.)

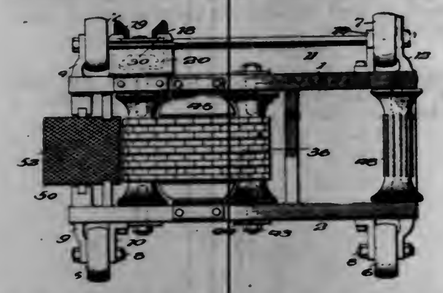


1. A prune washing machine comprising a supporting frame, a tank thereon, a prune receiving and washing basket pivotally supported in said tank, means for imparting vibratory motion to said basket and moving the same to dumping position at a predetermined time, conveying means for receiving the washed prunes from said basket and delivering the same from the tank, and spraying means in proximity to said conveying means for washing the prunes being elevated thereon.

1,456,457. AUTOMOBILE AND TRUCK TURNER. ALBERT GEORGE MOLNIAR, Albion, Mich. Filed July 2, 1921. Serial No. 482,064. 11 Claims. (Cl. 180—1.)

1. A motor vehicle turning device including a wheel frame adapted to receive the drive wheel of a motor

vehicle and having supporting wheels arranged transversely with relation to the wheel of the motor vehicle and means for transmitting motion from the drive wheel



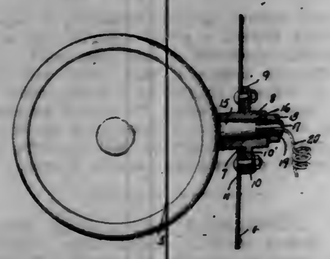
of the vehicle to the said transversely disposed wheels, said means including clutch mechanism for enabling the device to be moved laterally in either direction.

1,456,458. ROLL COVER. CARL NORDELL, Gilbertville, Mass. Filed Sept. 19, 1922. Serial No. 589,224. 8 Claims. (Cl. 19—143.)



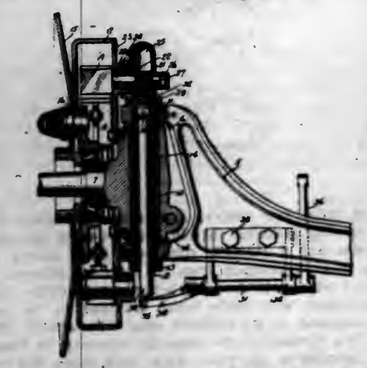
1. A cover for a roll of the kind described, comprising, as a new article of manufacture a single member constituting a permanently closed annulus and having a central band portion and a pair of inwardly directed, definitely offset, peripheral flanges at opposite sides of the band portion, said portions constituting a single integral finished structure completely permanently preformed into said central band portion and flanges before being applied to the roll.

1,456,459. LAMP SUPPORT. VICTOR W. PAGE, Kew Gardens, N. Y. Filed Jan. 6, 1922. Serial No. 527,513. 1 Claim. (Cl. 240—7.)



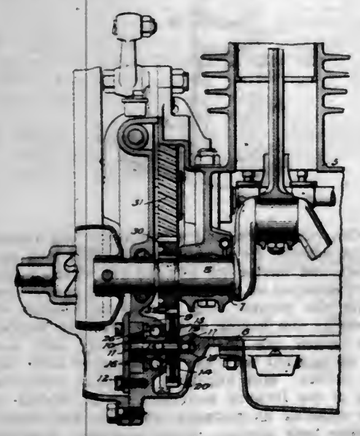
A lamp support comprising a socket in the form of a tubular member having a tapered internal passage, said tubular member being split to provide resiliency, oppositely disposed lugs carried by said split tubular member, a lamp, a tapered stem carried by the lamp and adapted to project through said tubular member, a screw-threaded extremity formed on said stem and adapted to receive a nut to prevent movement of the stem longitudinally of said tubular member, and a bolt passing through said lugs for contracting said tubular member about the stem to prevent rotary movement of the stem within the tubular member.

1,456,460. FRONT WHEEL BRAKE. VICTOR W. PAGE, Kew Gardens, N. Y. Filed Jan. 12, 1922. Serial No. 528,804. 3 Claims. (Cl. 188—194.)



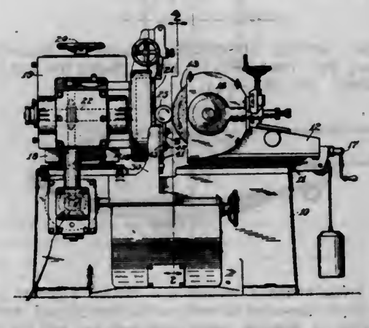
2. In combination with a steering wheel and its axle, a hollow king bolt for pivotally mounting said steering wheel, a brake carried by said steering wheel, means for operating said brake, said means comprising a cam, a shaft upon which said cam is mounted, a pinion gear carried by said shaft, a rack member movable through the hollow king bolt and having its rack portion engaging the pinion gear and means carried by the axle and adapted for engagement with said rack member to move the same longitudinally of the hollow king bolt to actuate the brake-operating means.

1,456,461. OIL PUMP. VICTOR W. PAGE, Kew Gardens, N. Y. Filed Mar. 29, 1922. Serial No. 547,899. 3 Claims. (Cl. 184—6.)



3. In a motor, an oil pump housing formed on the front wall of the crank case of said motor, an oil pumping mechanism mounted in said housing, a removable plate for closing said housing and retaining the oil pumping mechanism in position, a shaft projecting inwardly of the housing into the crank case housing, a gear carried by said shaft, and a gear carried by the motor crank shaft and meshing with said last-mentioned gear to drive the oil pumping mechanism.

1,456,462. CENTERLESS GRINDER. MILTON O. REEVES, Columbus, Ind., assignor to Reeves Pulley Co., Columbus, Ind., a Corporation of Indiana. Original application filed May 19, 1919, Serial No. 298,008. Divided and this application filed July 14, 1922. Serial No. 574,874. 11 Claims. (Cl. 51—116.)



1. In a grinding machine, the combination of a feed wheel, a grinding wheel, said two wheels having working faces which converge at an intermediate point to form a grinding throat and which move past such point in opposite directions, a tiltably mounted feed bar for supporting articles to be ground in said throat and movable to move them into or out of such throat, and a stop on said feed bar for positioning thereon articles to be ground.

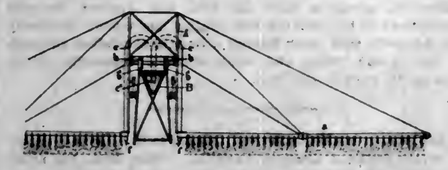
1,456,463. MEANS FOR LUBRICATING LEAF SPRINGS. JAMES I. RICHEY, Cincinnati, Ohio. Filed Nov. 18, 1920. Serial No. 424,832. 7 Claims. (Cl. 267—37.)



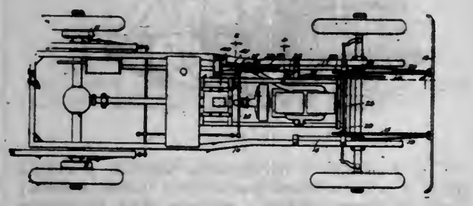
1. A device of the character specified, comprising in combination with a leaf spring, a housing for said spring, said housing comprising a middle section, said middle section having a widened portion intermediate its length, end sections pivotally secured to said middle section, cover plates for said end sections, and lubricant boxes arranged to be inserted into the widened portion of said middle section at opposite sides of the spring.

1,456,464. AUTOMATICALLY-WORKING IRRIGATION APPARATUS. EDMOND ROLLAND, Boulogne-sur-Seine, France. Filed Aug. 28, 1921. Serial No. 494,650. 6 Claims. (Cl. 299—52.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A watering apparatus comprising a frame, guide rails carried thereby across the surface to be watered, a carriage adapted to move on said rails, watering tubes mounted on said carriage, a water trough carried by the frame, feed pipes connected to the watering tubes and dipping into said water trough, endless cable means for reciprocating the said carriage along the guide rails, together with a shut off device, located in the feed pipe of each water tube, and with means for actuating said shut-off device through the movement of the carriage.

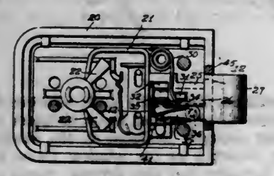


1,456,465. SAFETY DEVICE FOR MOTOR VEHICLES. ANDREW RYGIEL and JULIUS STERN, New York, N. Y. Filed Apr. 4, 1922. Serial No. 549,396. 4 Claims. (Cl. 180—83.)



1. In combination with a motor vehicle including brakes and an emergency brake lever for operating the brakes, safety devices of the class described comprising a bumper, rack bars slidably mounted on the vehicle frame supporting the bumper, spring means associated with the bumper for absorbing the shock when the bumper strikes an object, an arc-shaped bar mounted on the vehicle frame and co-operating with the emergency brake lever, means interposed between the rack bars and the curved bar for utilizing the movement of the bumper to operate the curved bar to release the brake lever, and a spring for positively operating the brake lever when it is released.

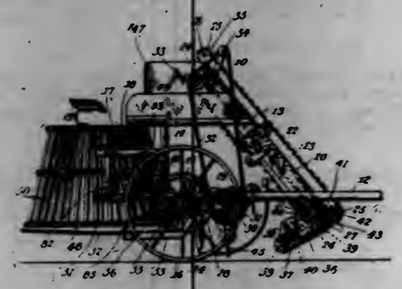
1,456,466. REVERSIBLE BOLT LOCK. WILLIAM NICHOLS SAUERBREI, Richmond Hill, N. Y., assignor to Wilson Bohannan, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 3, 1921. Serial No. 449,277. 5 Claims. (Cl. 292—244.)



1. In a lock, a casing having a polygonal bolt head opening, a bolt having a shank of circular cross sectional contour and a beveled head slidingly engaging the said bolt head opening, a yoke provided with a bearing at the forward end thereof, said bearing being formed to provide an opening extending through its walls adjacent to the rear end thereof, said bolt having its shank arranged to slide and rotate in the bearing and to extend into the opening at the rear end of the bearing, a collar secured on said bolt shank and received within the said opening

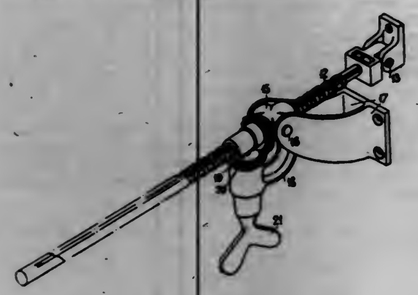
of the bearing, whereby the axial movements of the bolt are limited, and a spring pressed lever fulcrumed on the said yoke and having an arm engaging the said collar to normally hold the said bolt against forward movement in the bearing and against movement relatively to the yoke, said lever having a handle extending through a slot in the casing and being operable exteriorly of the casing to release the bolt.

1,456,467. HAY-COCKING MACHINE. AVILA SAVIGNAC, Joliette, Quebec, Canada. Filed Sept. 12, 1921. Serial No. 500,174. 12 Claims. (Cl. 214—9.)



1. In a machine of the character described, a wheeled frame, a hay cock mechanism mounted therein, including a pair of hinged sections, a rotatable shaft for opening said sections, and means for driving said shaft and causing the sections to be opened.

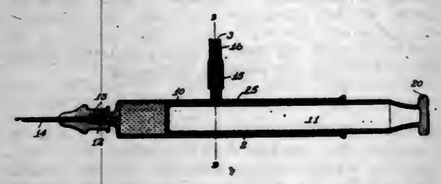
1,456,468. OPERATING DEVICE FOR SWINGING WINDOWS. WILLIAM SCHONFIELD, St. Mary Axe, London, England. Filed Mar. 7, 1922. Serial No. 541,828. 2 Claims. (Cl. 268—20.)



1. An apparatus for raising and lowering a skylight set at an angle to projecting walls or piers comprising a threaded rod pivotally mounted on the window sash, a nut pivotally mounted on the window frame adapted to receive said threaded rod and driving means carried by said nut adapted to rotate said threaded rod.

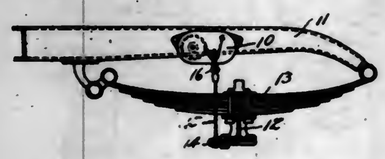
1,456,469. SYRINGE. OSCAR O. R. SCHWIDETZKY, Hasbrouck Heights, N. J., assignor to Becton, Dickinson & Co., Rutherford, N. J., a Corporation of New Jersey. Filed Mar. 10, 1921. Serial No. 451,129. 2 Claims. (Cl. 128—218.)

1. A syringe, comprising a barrel provided with an outlet at one end and an inlet at the side, and a valve plunger mounted to slide and to turn in the said barrel and having means adapted to register with the said



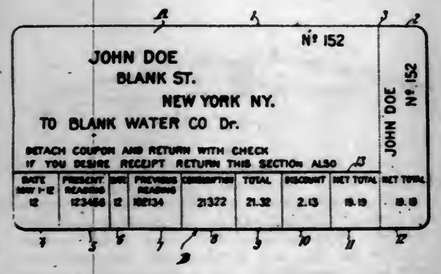
inlet to connect the latter with the outlet end of the barrel, the said means on turning the valve plunger moving out of register with the inlet.

1,456,470. SHOCK ABSORBER. HARRY B. SHAEFFER, Altoona, Pa. Filed Nov. 18, 1921. Serial No. 516,154. 2 Claims. (Cl. 267—10.)



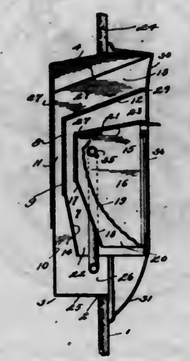
1. A shock absorber including a casing, a spring tensioned drum supported therein, a stationary post within the casing, a flexible band attached to said spring tensioned drum and to the post, and a floating pulley resting in the bight of said band between the post and the drum, and means for connectnig the pulley with a vehicle part.

1,456,471. BILL FORM. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed July 8, 1919, Serial No. 309,435. Patent No. 1,378,627. Divided and this application filed May 6, 1920. Serial No. 379,220. 2 Claims. (Cl. 283—60.)



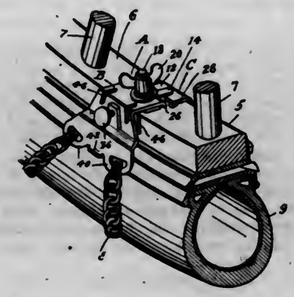
1. A bill-blank having at its head a printed business heading, and spaces for printing the address of the customer and the ledger number of his account, and having at its foot a series of laterally aligned spaces, each suitably headed to receive numbers indicating one of the following items; the date of a recent meter reading, the state of the meter at that reading, the date of a previous meter reading, the state of the meter at the previous reading, the difference between the readings, and the discount, and two spaces for receiving the net total, the second net total space being formed on the right marginal portion of the bill, said marginal portion being detachable along a perforated line.

1,456,472. WALL HEATER. HENRY E. STEIN, Columbus, Ohio, assignor to The Quad Stove Mfg. Co., Columbus, Ohio, a Corporation of Ohio. Filed Dec. 11, 1922. Serial No. 606,335. 1 Claim. (Cl. 126—90.)



A heater of the class described comprising a casing, a supplemental casing located therein and spaced therefrom to provide air passages, a burner chamber located in the supplemental chamber and being spaced therefrom to also provide air passages, said casing having an air chamber at its lower end and common to the lower ends of all passages, a closure for the casing, and a supplemental casing having openings therein which register with the outlet ends of the respective passages.

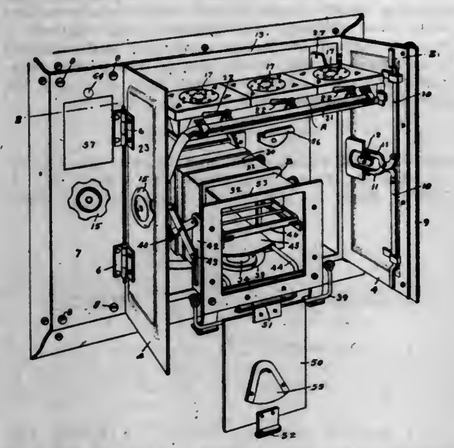
1,456,473. ADJUSTABLE ANTISKIDDING DEVICE. HARRY SUMMERFIELD, St. Paul, Minn. Filed Nov. 5, 1920. Serial No. 421,994. 6 Claims. (Cl. 152—14.)



1. An adjustable antiskidding device for vehicle wheels comprising a pair of clamping members having overlapping ends, means adapted to secure said ends together, rim engaging claws formed on said members, anti-skidding means positioned on either side of said claws on each of said members, and a felly engaging means attached to the side of one of said members adapted to adjustably engage the felly to rigidly clamp said members thereto.

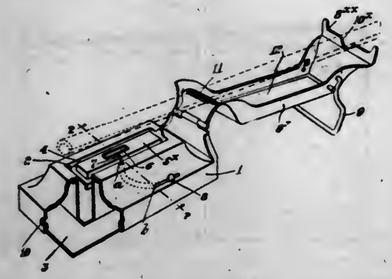
1,456,474. FOLDING COOK STOVE. MAX SUSSMAN, Detroit, Mich. Filed May 4, 1922. Serial No. 558,529. 11 Claims. (Cl. 126—37.)

1. A folding cook stove, comprising a casing adapted to be imbedded in a wall, a burner frame movably mounted in the casing, lazy tongs connecting the burner frame to the rear wall of the casing, doors connected



to the casing, and adapted to support the burner frame when the latter is withdrawn from the casing.

1,456,475. BURNER FOR SOLID FUEL. CARLO TOMMASI, JOHN SANDHOLM, HEINRICH DANNEEL, and AUGUSTO BUACH, Basel, Switzerland, assignors to Elektrizitätswerk Lonza, Basel, Switzerland. Filed Feb. 20, 1922. Serial No. 538,041. 5 Claims. (Cl. 158—97.)



1. A burner comprising means for supporting a block of fuel; a stop; means for urging the fuel block towards the stop; and means for varying the position of the stop.

1,456,476. PICTURE-MOLDING HOOK. ERNEST B. TRACY, Seattle, Wash. Filed Oct. 13, 1921. Serial No. 507,451. 1 Claim. (Cl. 40—145.8.)



A picture molding hook composed of a relatively flat strip of metal bent into substantially S-shaped formation to provide two reversely arranged hook elements, one of said hook elements being adapted to engage a molding.

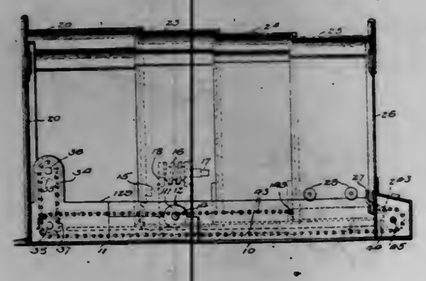
and the other hook element provided with a downwardly extending struck-out tongue constituting a depending finger and a central aperture, said depending finger extending below but in a plane with the bend of the lower hook element, said aperture being adapted to receive a loop of the picture suspending cord supported by said hook element, which cord is then passed downwardly and around said depending finger to control the same against creeping relative to the hook.

1,456,477. BUSHING FOR AUTOMATIC GRINDERS. ALBERT E. WHITE, Eau Claire, Wis. Filed Jan. 3, 1922. Serial No. 526,761. 6 Claims. (Cl. 51—236.)



1. A grinding apparatus including a feeding and centering device having a recess in which the article to be ground is seated, a bushing within said recess of non-magnetic hard metal, a rotary magnetic chuck for rotating the article in said bushing, and a grinding device for the article.

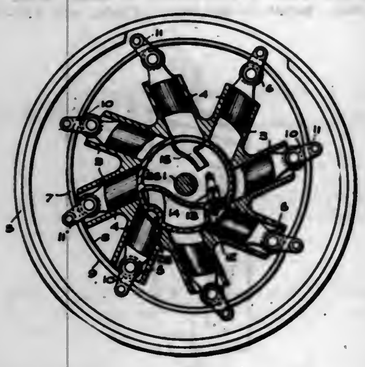
1,456,478. COLLAPSIBLE STRUCTURE. SAMUEL WHITE, Brooklyn, N. Y. Filed Nov. 20, 1922. Serial No. 602,310. 7 Claims. (Cl. 189—1.)



5. A collapsible structure including a base, a superstructure on the base at one end, super-structure sections movable on the base to telescope said additional sections in the first mentioned super-structure.

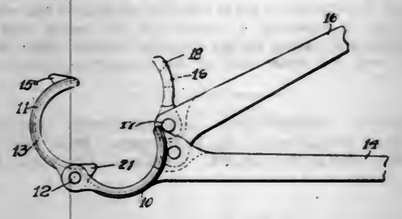
1,456,479. COMBINED INTERNAL-COMBUSTION AND TURBINE ENGINE. DALE SYDNEY ATKINSON and JAMES MCKENZIE, Toronto, Ontario, Canada. Filed Apr. 15, 1920. Serial No. 374,140. 4 Claims. (Cl. 60—13.)

4. In a combined internal combustion and turbine engine, the combination with a rotatable power shaft, cylinders mounted about said power shaft, a single combustion chamber, intake and exhaust ports communicating with said cylinders upon their rotation, pistons in said cylinders, means for actuating said pistons, a water jacket in proximity to said combustion chamber, a rotor secured to said power shaft, a stator, opposed buckets in the rotor and stator and nozzles respectively connecting the exhaust port and water jacket with the stator for simultaneously admitting the exhaust gases from the cylinders and the steam from the water jacket



into the opposed buckets, said nozzle connecting with the exhaust port extending through the nozzle connecting with the water jacket.

1,456,480. PIPE WRENCH. GEORGE D. BECKER, Saginaw, Mich. Filed Apr. 5, 1922. Serial No. 549,708. 1 Claim. (Cl. 81—66.)

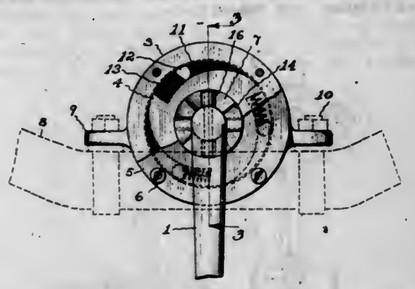


A pipe wrench comprising a pair of segmental clamping sections, one of which is provided with a handle, a second handle pivotally connected to the first named handle, means connected with the second named handle and adapted for engagement with the other of said sections for drawing the free end thereof toward the free end of the first named section, the working faces of said clamping sections being longitudinally grooved, and interchangeable bushings for said sections embodying ribs removably engaging in the grooves thereof, said grooves affording spaces receiving the flange of a pipe during engagement of the working faces of the wrench with the pipe.

1,456,481. SAFETY CRANKING DEVICE. OSCAR CROCKETT, Kansas City, Mo., assignor of one-half to Walter B. Crockett, Kansas City, Mo. Filed July 26, 1921. Serial No. 487,788. 3 Claims. (Cl. 123—185.)

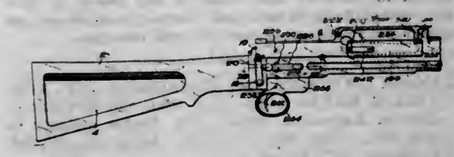
1. In a safety cranking device for engines, the combination with a starting crank provided with a clutch member adapted to engage the engine shaft, a bearing member on which said starting crank is slidably and rotatably mounted, said bearing member being formed with a depression or recess, a clutch disk within said recess or depression and clutch means interposed between the clutch disk and the bearing member, said clutch means permitting movement of the clutch member in one direction only, said clutch disk having a hub portion with notches therein having cam portions, projections on said starting crank to engage said notches upon movement in one direction and to be forced from said

notches by said cam portions upon movement in the other direction, and a cover plate for said bearing member, said cover plate being apertured to receive the hub



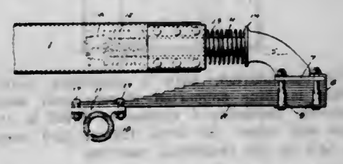
portion of the clutch disk and provide a bearing therefor and to retain said clutch disk in proper position within said bearing.

1,456,482. FIREARM. ANDRÉ VIRGILE PAUL MARIE BERTHIER, Neuilly-sur-Seine, France, assignor to United States Machine Gun Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 20, 1918. Serial No. 263,277. 12 Claims. (Cl. 42—3.)



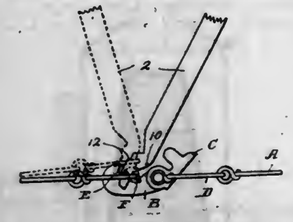
1. In a gun operable as an automatic or semi-automatic gun, in combination, a receiver, a sear normally in operative position, a trigger, intermediate connections between said sear and said trigger whereby said sear will be moved from operative into inoperative position when said trigger is pulled and then will be automatically returned into operative position, a second sear movable upon a vertical pivot upon one wall of said receiver and normally in operative position to cooperate with said trigger-operated sear in semi-automatic firing, and means to render said second sear inoperative in automatic firing.

1,456,483. SUSPENSION SPRING FOR AUTOMOBILES. GEORGE H. DEIN, Woodhaven, N. Y. Filed Sept. 18, 1920. Serial No. 411,034. 3 Claims. (Cl. 267—28.)



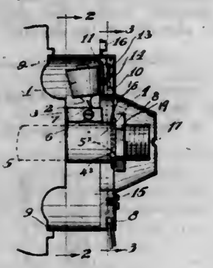
1. The combination with a vehicle frame including side and end bars; of spring supporting means therefor comprising front and rear cross bars, leaf springs secured at one end to said cross bars and arranged parallel with the side bars of said frame, axles attached to said springs, stub shafts carried by said cross bars and extended through said end bars of the frame, bushings carried by said end bars, in which said stub shafts are mounted, coiled spring mounted on said shafts on opposite sides of said end bars, and means carried by said shafts for holding said springs in operative position.

1,456,484. TOOL FOR APPLYING AND REMOVING TIRE CHAINS. LEROY D. FALCONER, Bethel, Kans., assignor to Edward E. Stephens, Kansas City, Mo. Filed Jan. 20, 1922. Serial No. 580,642. 1 Claim. (Cl. 284—78.)



A tool of the character described consisting of a lever of U-shape configuration in cross section to provide two spaced parallel flanges, a pin uniting said flanges near one end and constituting a fulcrum, a flat transverse member uniting said flanges near the other end to constitute a fulcrum, a nose on the flanges extending forwardly of the last-mentioned fulcrum, and a series of shoulders on the lever.

1,456,485. TIMER. JESSE EDWIN HIGBY, Whiting, Kans. Filed Sept. 6, 1919. Serial No. 322,093. 1 Claim. (Cl. 200—24.)

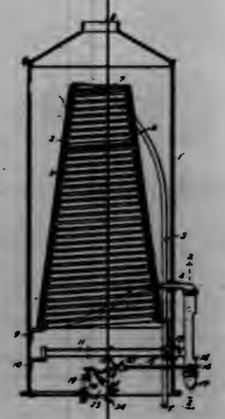


A timer for internal combustion engines having a rotatable shaft, said timer comprising an oscillatory shell, an insulating disc carried by the shell, stationary contacts carried by said insulating disc, a clamping sleeve secured to said shaft and having outwardly turned ends, an arm having one end extending between the outwardly turned ends, a shouldered pivot pin for pivotally securing said arm between said outwardly turned ends, a roller rotatably carried by said arm, said roller being a section of a cone, and a spring secured at one end to said pivot pin and arranged to bear at its other end on the pivted arm, whereby the roller is kept in close engagement with said stationary contacts.

1,456,486. COMPOUND FOR CLEANING ALUMINUM. CATHERINE M. HEMEN, Washington, D. C. Filed Aug. 7, 1919. Serial No. 315,948. Renewed Oct. 4, 1922. Serial No. 592,442. 1 Claim. (Cl. 87—5.)

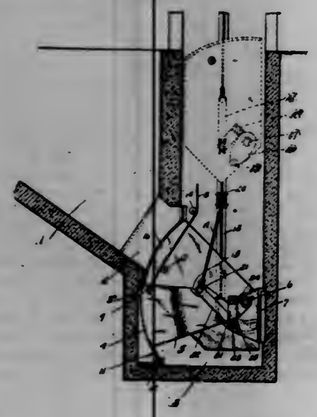
A cleaning composition formed of one pound white castile soap, one ounce oxalic acid, one ounce zinc oxide, one ounce bicarbonate of soda, one-fourth ounce gum tragacanth, six quarts of soft water, together with a sufficient quantity of a fine abrasive to hold the materials in a mixture.

1,456,487. WATER HEATER. GERMAINE MOMBLOOSS, New York, N. Y., assignor to Joseph Struelens, New York, N. Y. Filed Jan. 21, 1922. Serial No. 530,928. 5 Claims. (Cl. 67—116.)



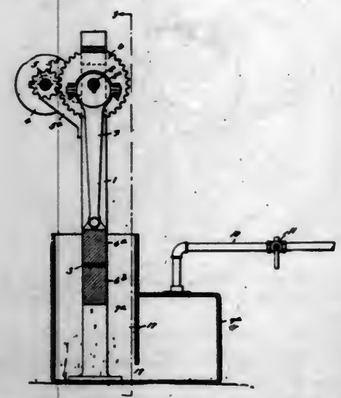
1. A water heater which comprises a pilot light, a thermostatic element associated therewith and movable in accordance with the variations in the condition of the pilot light, an electrical contact adapted to be engaged by the thermostatic element in one position thereof, and manually operable means for positively holding the thermostatic element off the contact.

1,456,488. HOISTING APPARATUS. ZENAS E. COLBY, Bay City, Mich. Filed Feb. 11, 1921. Serial No. 444,089. 9 Claims. (Cl. 214—125.)



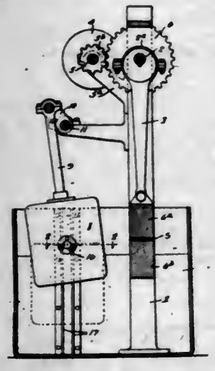
1. The combination with a chute, of a hoisting apparatus comprising a bucket, bale bearings thereon and a bale secured thereto, a flexible connection for raising and lowering said bucket, a support, a gate pivoted to said support and having seats formed therein adapted to receive the bale bearings, hubs on the bucket, and seats in the support adapted to receive said hub to allow the bucket to swing into loading position with relation to the chute.

1,456,489. MACHINE FOR CAMBERING AND TEMPERING METAL. CHRISTIAN GIRL and HERBERT S. JANDUS, Kalamazoo, Mich.; said Jandus assignor to said Girl. Filed Mar. 13, 1922. Serial No. 543,489. 22 Claims. (Cl. 266—6.)



1. The combination, with a cambering machine including forming elements, of a liquid-containing tank arranged to surround said elements, and means to raise the level of liquid in said tank, thereby to submerge and quench an article acted upon by said elements.

1,456,490. MACHINE FOR CAMBERING AND TEMPERING METAL. CHRISTIAN GIRL and HERBERT S. JANDUS, Kalamazoo, Mich.; said Jandus assignor to said Girl. Filed Mar. 13, 1922. Serial No. 543,490. 7 Claims. (Cl. 266—6.)

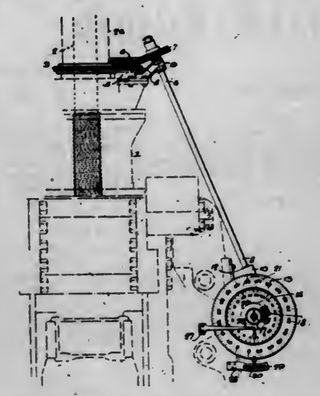


1. The combination, with a quenching tank, of a cambering machine supported therein, and means for mechanically displacing a volume of liquid in the tank to raise and lower the level thereof and quench an article held in the cambering machine.

1,456,491. INDICATOR FOR THE ADJUSTING SCREWS OF ROLLING MILLS. PAUL C. HALDEMAN, Coatesville, Pa., assignor to Lukens Steel Company, Coatesville, Pa., a Corporation of Pennsylvania. Filed June 21, 1920. Serial No. 390,687. 11 Claims. (Cl. 80—56.)

4. The combination in an indicator for the adjusting screws of rolling mills, of an adjusting-screw mechanism, a gear wheel thereon, a diagonal shaft, a bracket supporting the upper end of the shaft, intermediate

gears mounted on said bracket and through which motion is imparted from the screw mechanism to the shaft, a housing supporting the screw and the bracket, a plate secured to the lower portion of the housing, bearings on said plate for the lower end of the diagonal shaft, two dials, one located within the other, a shaft on which the lower dial is mounted, worm gearing between said shaft and the diagonal shaft so that the dial revolves

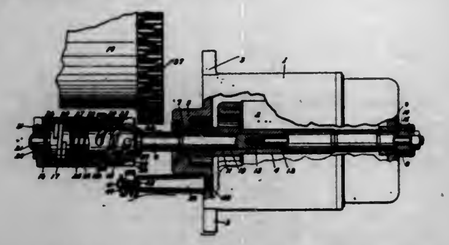


comparatively slowly, a spider carrying the outer dial, a gear wheel on which the spider is mounted, an intermediate shaft, a gear wheel thereon meshing with the dial gear wheel, a bevel gear wheel on the opposite end of the intermediate shaft, and a bevel wheel on the diagonal shaft that meshes with the first mentioned beveled gear wheel so that the outer dial will revolve at a greater speed than the inner dial, the inner dial having graduations in inches, the graduations of the outer dial being in fractional parts of an inch.

1,456,492. SURFACING COMPOSITION FOR HIGHWAYS AND THE LIKE. DONALD MACKNIGHT HEPBURN, Philadelphia, Pa. Filed June 17, 1921. Serial No. 478,328. 3 Claims. (Cl. 106—31.)

1. The herein described method of practicing highway and like surfacing which consists in mixing with heated water, oxide of calcium of relatively coarse, granular form to provide a thin mortar, then adding thereto and mixing therewith earthy material and when any acids as may be combined therewith shall have become neutralized and whilst the mass is still in a heated relatively dry condition adding thereto and mixing therewith pitchy material and then laying the resultant relatively dry, heated and granular mass upon the highway for immediate use.

1,456,493. ENGINE-STARTING MECHANISM. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Dec. 6, 1920. Serial No. 428,447. 15 Claims. (Cl. 74—7.)



1. In a starting mechanism for gas engines, the combination of a drive shaft; a sleeve mounted on the shaft for limited rotary and axial movement; a pinion loosely mounted on the sleeve; and a spring element fixed to the sleeve and frictionally associated with the pinion and operative to form a driving connection between the shaft and pinion when the engine is being started.

1,456,494. OILPROOF COATING OR IMPREGNATING AGENT. ANDREW J. ROWLAND, Cincinnati, Ohio. Filed Aug. 6, 1920. Serial No. 401,730. 3 Claims. (Cl. 134—16.)

3. A composition of matter consisting of approximately ninety (90) parts of water to approximately ten (10) parts of Irish moss.

1,456,495. MANUFACTURE OF CARBON ELECTRODES. SVEN EMIL SIEURIN, Hoganas, Sweden, assignor to Höganäs Billesholms Aktiebolag, Helsinborg, Sweden, a Company Limited. Filed July 31, 1920. Serial No. 400,515. 3 Claims. (Cl. 204—65.)

1. The process of manufacturing electrodes from a moulded mass of tar and carbon powder which consists in introducing and heating the bodies in gas-tight containers provided with outlets, condensing the escaping tar gases, and after the escape of the said gases removing the bodies from the container and exposing them to a finishing burning.

THE

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Issue of May 29, 1923.

Trade-Marks	500—No.	168,538 to No.	169,037, inclusive.
Labels	48—No.	25,993 to No.	26,040, inclusive.
Prints	14—No.	6,730 to No.	6,743, inclusive.
Reissues	3—No.	15,614 to No.	15,616, inclusive.
Designs	6—No.	62,433 to No.	62,438, inclusive.
Patents	796—No.	1,456,496 to No.	1,457,291, inclusive.
Total	1367		

ADJUDICATED PATENTS.

(U. S. C. C. A. Mass.) Moses patent, 1,333,331, claims 11, 13, 15, 17, 19, 22, 23, 25, for generating apparatus for Ford automobiles, *Held* restricted to special form, and not infringed. *Moses* v. *Lalime & Partridge*, 287 Fed. Rep., 37.

(U. S. C. C. A. N. Y.) Perkins reissue patent, 13,436, claims 13, 28, 30, 31, and 38, for glue and method of making it, *Held* not infringed. *Perkins Glue Co.* v. *Standard Furniture Co.*, 287 Fed. Rep., 109.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,353,910, L. H. Johnson, Telephone system, decided Apr. 18, 1923, claim 20.

Pat. 1,359,453, J. A. Watson, Oil-purifying apparatus for hydrocarbon engines, decided Apr. 20, 1923, claim 5.

Pat. 1,415,060, L. M. Woolson, Hydrocarbon motor, decided Apr. 20, 1923, claims 1 and 5.

Trade-Mark Index.

Beginning with the issue of June 5, 1923, the index of titles of trade-marks published for opposition will be arranged by classes, taking the place of the alphabetical list of trade-mark titles published for opposition, and the index of titles of trade-marks registered will be arranged by classes, taking the place of the alphabetical list of trade-marks registered.

Disclaimer.

1,429,201.—*William S. Gubelmann*, Buffalo, N. Y. Adding and Recording Machine. Patent dated September 12, 1922. Disclaimer filed May 2, 1923, by the patentee.

Hereby enters this disclaimer to that part of the claims in said specification which read as follows:

"113. In a calculating machine the combination of a plurality of accumulators, a shaft, a plurality of engaging members one for each accumulator of a plurality of said accumulators and mounted on said shaft so as to be caused to rotate therewith, means for operating said shaft to cause said members to rotate a plurality of said accumulators, and actuating means independent of said shaft and said engaging members for actuating said accumulators for accumulating items thereon.

"284. In a calculating machine, the combination of a plurality of sets of accumulators, number keys for controlling the items accumulated on either of said sets of accumulators, a printing device for printing the items accumulated on either of said sets of accumulators, a special sign printing device operable to print a special sign in conjunction with any of the items accumulated on either of said accumulators, a key for controlling operation of said special sign printing device, and operating mechanism for operating said accumulators and item printing device according to the control of said number keys and for operating said special sign according to the control of its keys."

Interference Defined.

Rule 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

Condition of Applications Under Examination at Close of Business May 18, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 73,530; Trade-Mark Division, 3,841. Oldest new case May 17, 1923; oldest amended, May 19, 1923. The dates given are 1923 except where * indicates 1922. Divisions. Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Aug. 15	Aug. 8.	1,212
128	2. HADEN, C. F. (Acting). Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 18	July 25	1,557
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 17	May 19	1,841
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 12	*Jan. 26	1,412
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 22	July 8	1,356
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substances Preparation.	Sept. 1	*Jan. 8	1,656
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Aug. 9	Oct. 19	2,522
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Dec. 15	*Jan. 29	1,529
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Aug. 15	*Mar. 16	853
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Aug. 17	Sept. 20	1,386
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Nov. 13	Nov. 7	1,034
322	12. PIERCE, P. P., Machine Elements	Sept. 28	Nov. 27	1,496
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	July 10	*Feb. 13	1,287
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	June 6	*Apr. 12	1,201
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 2	Sept. 7	2,025
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 1	July 3	2,487
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufacture; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	June 19	Nov. 6	1,493
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 27	June 13	2,031
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 11	*Feb. 2	773
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 9	Nov. 8	1,963
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	May 19	*Jan. 3	1,058
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 28	Nov. 4	658
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	June 17	May 29	879
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 8	Sept. 6	1,442
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 26	*Jan. 15	464
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 1	July 25	926
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	July 3	July 5	2,149
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 9	Sept. 11	1,541
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 15	Dec. 18	716
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 23	*Jan. 8	1,868
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 20	Aug. 9	1,764
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 3	Sept. 26	1,293
70	33. WYMAN, W. J., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Aug. 2	Aug. 3	1,619
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Nov. 16	Dec. 21	762
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 6	*Feb. 20	1,046
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Nov. 4	Oct. 10	1,913
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 7	July 13	1,928
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	June 22	June 21	1,805
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 26	July 7	1,515
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	July 31	Dec. 1	2,102
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 14	Sept. 22	952
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	June 29	July 3	1,751
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 23	Sept. 1	1,328
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	July 20	Dec. 18	1,264
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	July 1	Oct. 2	1,470
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Aug. 24	Sept. 21	1,446
264	47. BARKER, H., Brakes, Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	July 17	Dec. 15	1,204
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	June 19	July 8	2,302
363	49. EDINBURG, F. E., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	July 27	Aug. 7	719
101	DESIGNS: C. O. MARKHAM (Acting)	Aug. 16	Dec. 22	2,632
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	*Feb. 10	*Mar. 28	3,829
	{Labels and Prints	*May 9	*May 15	12

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

SWARTWOUT *v.* SKINNER.

No. 1,562. Decided April 3, 1923.

INTERFERENCE—PRIORITY—INOPERATIVENESS.

Where priority had been awarded to Skinner on the ground that Swartwout's structure was inoperative, but it was conceded that the defect would be obviated by the use of a universal-joint connection as one element of the combination instead of the particular connection disclosed, and where such a universal-joint connection was originally mentioned in Swartwout's specification, although eliminated because the Examiner objected that it was not shown in the drawing, *Held* that the application as originally filed so disclosed the invention as to enable any one skilled in the art to understand and practice it, and priority was therefore awarded to Swartwout.

Mr. H. J. Lucke and *Mr. Robt. Watson* for Swartwout.

Mr. H. C. Lord for Skinner.

Before SMYTH, Chief Justice, ROBB, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

ROBB, *J.*:

Appeal from a decision of the Patent Office in an interference proceeding in which priority of invention was awarded the junior party Skinner (303 O. G., 851).

The invention embraces a steam-engine valve gear, so designed as not to be affected by expansion and contraction of the cylinder, due to changes in temperature incident to operation of the engine. The claims are three in number, of which we here reproduce the 1st, as illustrative of the group:

1. In an engine valve gear, the combination of a rocker oscillating on an axis at a right angle to the engine cylinder axis, a lay shaft parallel to the cylinder axis, and connecting means between the rocker and lay shaft, to operate the latter, said means including universal joints permitting variations in relative position between the shaft and rocker, the lay shaft being movable longitudinally relative to the cylinder, whereby expansion of the cylinder will not vary the angular relation of the lay shaft and the rocker.

The Examiner of Interferences, upon evidence warranting the conclusion, found that Swartwout had proven conception of the invention as early as September 6, 1915. His application was filed on August 23, 1916. And since Skinner, in his preliminary statement, alleged conception in December of 1915 and relied upon his filing date of July 20, 1917, for reduction to practice, it is apparent that he could defeat Swartwout only by successfully challenging operativeness of his structure. This he endeavored to do, but the Examiner, in a carefully-prepared opinion, ruled against him and awarded priority to Swartwout. The same question was raised before the Examiners in Chief, with the same result.

The Assistant Commissioner ruled against Swartwout on the question of operativeness, and therefore awarded priority to Skinner.

When Skinner filed his motion for dissolution, on the ground of the inoperativeness of the Swartwout device, the motion in due course was referred to the Law Examiner, who considered every phase of it. In his opinion he says:

One point of the motion is that Swartwout has not disclosed means including "universal joints" connecting the rocker arm and lay shaft. It is thought that the specific joints shown in Swartwout's drawing may be called "universal joints", but in view of the fact that the original specification stated that ball and socket joints might be substituted for the specific connection shown, whether the joints illustrated are "universal" becomes unimportant; ball and socket joints are universal joints within any meaning attributable to these words in Skinner's patent.

The principal point made in support of the motion rests upon a theory which is not even hinted at in Skinner's specification. It is said that in order to realize the results aimed at by the invention the points of connection of the link E with the lay shaft and rocker arm should remain fixed under cylinder expansion, to accomplish which Skinner fixes the lay shaft in the bearing house J at the frame end of the cylinder. Counsel says that if there were any relative motion of the fixed point of the lay-shaft and the point of pivotal connection of link E and rocker arm, the upper end of link E would move in the arc of a circle around its pivotal point of connection with the rocker arm thus rotating the lay shaft and disturbing the timing of the valves, and causing unequal distribution of steam. As above indicated the specification of Skinner fails to describe or suggest where the derangement of prior art devices due to cylinder expansion occurred, and it failed to state that the relation of parts now relied upon was essential to a realization of the invention. On the other hand it indicates that such realization is dependent principally upon the arrangement of the lay-shaft alongside the cylinder which may move relatively to the cylinder, and a rocker arm mounted on an axis at right angles thereto, connected to the lay-shaft through a link having universal joints.

* * * * * * *

Furthermore, since the expansion of the cylinder is said to be only about fifteen thousandths of an inch, even if the lay shaft were fixed at the outer end of the cylinder as the specification seems to contemplate as a possible construction, the angular motion of the lay shaft due to the change in radial position of link E, under cylinder expansion, would be so very slight that it would apparently not seriously affect the valves. At least it seems reasonable to say that even if the lay shaft were fixed at the outer end of the cylinder some of the benefits of the invention would still be realized. This appears to be the theory of Skinner's specification and it is thought to be correct. From a reading of Skinner's specification it is fair to assume that the fixing of the lay-shaft in the frame-end housing is not an essential feature of the invention, and it is significant that none of the claims bring in this feature. It is concluded that the fixing of the lay-shaft at any particular point from longitudinal motion is not of the essence of the broad invention.

The Assistant Commissioner rested his decision upon the ground that Swartwout has not disclosed means, including "universal joints", connecting the rocker arm and lay shaft, although he suggested that there might be merit in the other contentions advanced by Skinner.

These are combination claims and it in effect is conceded by the Assistant Commissioner that the use of such a joint would obviate the defect assumed to reside in the structure described. In his application as filed, Swartwout says:

A universal connection of suitable construction such as the ball and socket type may be substituted for the specific connection shown.

Inasmuch, however, as he had not illustrated this well-known type of universal joint in his drawing, he was required to cancel the allusion

thereto in his specification. The case, then, amounts to this: The specification sets forth the various elements of the combination and the drawing is illustrative of these particular elements, but in his specification the applicant suggests that a connection of a different and well-known type be substituted for the particular element shown in the drawing.

We agree with the Law Examiner, the Examiner of Interferences and the Examiners in Chief, that, in such circumstances, if the particular element illustrated proved unsatisfactory, any skilled mechanic would have experienced no difficulty in adopting the suggestion of the applicant for the substitution of the element mentioned. In other words, the application as originally filed so discloses the invention as to enable any one skilled in the art to understand and practice it, and that is sufficient. (*Gold* v. *Gold*, 34 App. D. C., 152; 152 O. G., 781.)

As to the other points suggested by the Assistant Commissioner, we are content to adopt the reasoning and conclusion of the other tribunals of the Patent Office.

The decision therefore is reversed and priority awarded Swartwout.

Reversed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

816,543 (1st and 3d claims), Erb and Powlison, Rotary disk plowing attachment, suit filed Mar. 16, 1923, U. S. D. C., N. D. Ill., Doc. 3401, *Disc Grader & Plow Co.* v. *Austin Mfg. Co.*

876,933, J. L. Borsch, jr., Bifocal lens, consent order dismissing bill of complaint as to defendant, P. Hermant. Consent decree sustaining patent and granting permanent injunction, U. S. D. C., S. D. N. Y., *Kryptok Co.* v. *P. Hermant and Others* (*Gitson Bifocal Co.*). Same, bill dismissed on stipulation, U. S. D. C., S. D. N. Y., *Kryptok Co.* v. *P. Hermant* (*Imperial Optical Co.*)

902,584, W. C. Huebner, Apparatus for producing printing surfaces; 954,290, 954,291, 1,201,048, same, Photographic-printing apparatus; 1,291,897, same, Apparatus for positioning the printing plates on the plate holders of photographic-printing apparatus, suit filed Mar. 27, 1923, U. S. D. C., N. D. Ill., Doc. 3416, *Huebner-Bleistein Patents Co.* v. *Directo-Plate Corp. et al.*

954,290. (See 902,584.)

954,291. (See 902,584.)

1,058,989, Latta and Thompson, Car roofs; 1,156,944, Thompson and Otis, same, suit filed Mar. 13, 1923, U. S. D. C., N. D. Ill., Doc. 3398, *Hutchins Car Roofing Co.* v. *Chicago-Cleveland Car Roofing Co.*

1,060,190, 1,072,471, Des. 43,459, Kellner and Worms, Knitted neckties; 1,072,734, same, Process of knitting bias lace knitted neckties; 1,072,856, same, Process of knitting neckties and scarfs; 1,103,589, same, Knitted fabric, consent decree sustaining patent and granting permanent injunction, U. S. D. C., S. D. N. Y., *Franklin Knitting Mills, Inc.* v. *National Shirt Shops, Inc.*

1,072,471. (See 1,060,190.)

1,072,734. (See 1,060,190.)

1,072,856. (See 1,060,190.)

1,103,589. (See 1,060,190.)

1,123,753, E. L. Kellan, Flushing valve, suit filed Mar. 23, 1923, U. S. D. C., N. D. Ill., Doc. 3411, *E. L. Kellan* v. *Roberts & Benson et al.*

1,126,262, R. P. Nichols, Automobile lock; 1,156,615, Murphey and Thompson, same, 1,367,200; 1,425,408, J. A. Murphey, same, 1,366,206, same, Steering wheels, suit filed Mar. 20, 1923, U. S. D. C., N. D. Ill., Doc. 3405, *J. A. Murphey et al.* v. *Bauer Mfg. Co. et al.*

1,156,615. (See 1,126,262.)

1,156,944. (See 1,058,989.)

1,186,477, W. M. Grosvenor, Process for drying or hardening coatings, suit filed Mar. 20, 1923, U. S. D. C., N. D. Ill., Doc. 3404, *Wenborne-Karpen Dryer Co.* v. *H. C. Bay Co.*

1,201,048. (See 902,584.)

1,264,626, W. A. Foss, Artificial bait and hooks; 1,264,627, 1,265,900, same, Artificial bait, suit filed April 5, 1923, U. S. D. C., W. D. Mich. (S. D.), Doc. 1982, *W. A. Foss* v. *J. Heddon's Sons.*

1,264,627. (See 1,264,626.)

1,265,900. (See 1,264,626.)

1,291,897. (See 902,584.)

1,323,869. (See Re. 14,777.)

1,324,590, A. G. Guenther, Wire-tying machine; 1,357,883, J. S. McChesney, Wire tying; 1,360,236, same, Wire-tying appliance, suits filed Mar. 23, 1923, U. S. D. C., N. D. Ill., Doc. 3412, *Cary Mfg. Co.* v. *International Baling & Binding Co.*, same, Doc. 3413, *Cary Mfg. Co.* v. *Gerrard Wire Tying Machines Co., Inc., et al.*

1,357,883. (See 1,324,590.)

1,360,236. (See 1,324,590.)

1,366,206. (See 1,126,262.)

1,367,200. (See 1,126,262.)

1,377,249, 1,414,280, W. C. Huebner, Photographic-printing apparatus; 1,413,406, same, Holders for photographic printing plates, suit filed Mar. 27, 1923, U. S. D. C., N. D. Ill., Doc. 3416, *Huebner-Bleistein Patents Co.* v. *Directo-Plate Corp. et al.*

1,394,919, J. J. McCann, Prayer rails, suit filed Mar. 23, 1923, U. S. D. C., N. D. Ill., Doc. 3409, *J. J. McCann* v. *Holland Brass Works.*

1,400,171. (See Re. 14,777.)

1,413,406. (See 1,377,249.)

1,414,280. (See 1,377,249.)

1,421,045, H. L. Wadsworth, Process for recording sound records; 1,444,960, V. H. Emerson, Record for talking machines and method of making same, suit filed April 6, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/227, *Metal Recording Disc Co., Inc.*, v. *Plaza Music Co. et al.*

1,425,408. (See 1,126,262.)

1,427,760, H. D. Ridge, Scales, suit filed Mar. 17, 1923, U. S. D. C., N. D. Ill., Doc. 3402, *H. D. Ridge* v. *International Harvester Co. et al.*

1,435,660, W. M. Rogerson, Educational appliances, suits filed Mar. 26, 1923, U. S. D. C., N. D. Ill., Doc. 3414, *Wallace Institute* v. *Chicago Talking Machine Co.* Same, Doc. 3415, *Wallace Institute* v. *Sears, Roebuck & Co.*

1,444,960. (See 1,421,045.)

Re. 14,777, J. L. Kraft, Process of sterilizing cheese and an improved product produced by such process; 1,323,869, same, Process for treating cheese; 1,400,171, same, Process of preparing cheese, suit filed Mar. 6, 1923, U. S. D. C., N. D. Ill., Doc. 3362, *J. L. Kraft & Bros. Co.* v. *Swift & Co.*

Des. 43,459. (See 1,060,190.)

T. M. 141,730. (See T. M. 149,753.)

T. M. 149,753, T. M. 141,730, The Baer & Wilde Co., Cuff buttons, suit filed Mar. 9, 1923, U. S. D. C., N. D. Ill., Doc. 3395, *The Baer & Wilde Co.* v. *Mandel Bros.*

Interference Notices.

U. S. PATENT OFFICE, *Washington, May 11, 1923.*

Harry Paul Senay, his assigns or legal representatives, take notice:

An interference has been declared by this Office between the application of The Reese Chemical Company, 1945 East 57th Street, Cleveland, Ohio, for registration of a trade-mark and trade-mark registered November 3, 1914, No. 101,015, to Harry Paul Senay, 601 H Street NE., Washington, D. C. The Office having been unable to secure service upon said Senay, notice is hereby given that unless said Senay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, May 14, 1923.*

Walter F. McCaleb, his assigns or legal representatives take notice:

An interference having been declared by this Office between the patent granted April 20, 1920, No. 1,337,844, to Walter F. McCaleb, Federal Reserve Bank, Dallas, Tex., and an application for patent filed by William S. Gubelmann, 773 Richmond Avenue, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said McCaleb at the said address having been returned by the post office undeliverable, notice is hereby given that unless said McCaleb, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 27, 1923.*

James P. Williams, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Paragon Electric Company, 329 East Fifth Street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 31, 1899, No. 32,456, to James P. Williams, 39 and 41 Cortlandt Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Williams at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Williams, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 28, 1923.*

The Avery Stamping Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Baldwin Tool Works, Parkersburg, W. Va., for registration of a trade-mark and trade-mark registered January 23, 1906, No. 49,168, to The Avery Stamping Company, corner of Coe and Hamilton Streets, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The Avery Stamping Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Avery Stamping Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 28, 1923.*

Mary A. Morgan, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Windsor Soap Co., Inc., 963 William Street, Buffalo, N. Y., and The Van Camp Packing Company, Inc., of Lemcke Annex Building, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered January 22, 1901, No. 35,817, to Mary A. Morgan, 1330 Dorchester Avenue, Boston, Mass., and a notice of such declaration sent by registered mail to said Morgan at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Morgan, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 30, 1923.*

Haight Fruit Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Llewellyn A. Banks, of 108 West Second Street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 14, 1896, No. 27,647, to Haight Fruit Co., of Redlands, Calif., and the Office having been unable to obtain service on said Haight Fruit Co., notice is hereby given that unless said Haight Fruit Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Changes in Classification.

(ORDER No. 2,814.)

U. S. PATENT OFFICE, *Washington, May 4, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 240, Illumination (Division XXX), abolish the following subclasses, with their definitions:

111. Shade, reflector, or globe supports—
112. Candle.
113. Drop.
114. Double clamp.
115. Top.
116. Base.
117. Adjustable and collapsible.
118. Spider.

The patents formerly contained in these subclasses have been placed for the most part in class 240, Illumination, subclasses 125–152, hereinafter established.

In class 240, Illumination (Division XXX), establish the following subclasses and definitions, the patents con-

tained in these subclasses having been taken for the most part from class 240, Illumination, subclass 111, Shade, reflector, or globe supports, and the subclasses indented thereunder, hereinbefore abolished:

125. Combined shade and bowl supports—
126. Socket attached,
127. Socket covers.
128. Shade or bowl supports—
129. Double-ring frame—
130. Socket extension—
131. Clamping jaws,
132. Socket covers—
133 Clamping jaws,
134. Spring ring,
135. Base—
136. Spider,
137. Removable socket collar,
138. Spring frame on bulb,
139. Spring frame on body of chimney,
140. Side,
141. On candle,
142. Combined with shade,
143. Combined with socket or shell,
144. Adjustable,
145. Collapsible,
146. Drop—
147. Hinged,
Interior arms and ring—
148. Crown engaged.
149. Inverted-bowl suspension devices—
150. Combined with light supports.
151. Lens holders or supports—
152. Perforated plate.

125. COMBINED SHADE AND BOWL SUPPORTS. Devices for supporting a shade and a bowl as a unit in relation to the light source. Shades include reflectors, and bowls include globes.
Search this class, subclass 78.

126. COMBINED SHADE AND BOWL SUPPORTS, SOCKET ATTACHED. Unitary shade and bowl supports which are attached or clamped to the body of the electric socket.
Search this class, subclass 129.

127. COMBINED SHADE AND BOWL SUPPORTS, SOCKET COVERS. Unitary shade and bowl supports which embrace or are carried by socket covers.
Search this class, subclass 132.

128. SHADE OR BOWL SUPPORTS. Miscellaneous devices for supporting shades, reflectors, bowls, or globes in position relative to the light source and not hereinbelow classifiable. The support is not an integral part of the shade, etc.

129. SHADE OR BOWL SUPPORTS, DOUBLE-RING FRAME. Includes supports comprising skeleton frames having a flanged ring to engage an electric socket and a ring to which the shade, reflector, bowl, or globe is connected.
Search this class, subclasses 134 and 135.

130. SHADE OR BOWL SUPPORTS, DOUBLE-RING FRAME, SOCKET EXTENSION. Includes supports attached to the socket which are of such length as to support the shade or reflector below the socket.
Search this class, subclass 134.

131. SHADE OR BOWL SUPPORTS, DOUBLE-RING FRAME, SOCKET EXTENSION, CLAMPING JAWS. Includes supports attached to the socket and provided with clamping jaws which engage the rim of the shade or reflector on the inside and outside, below the socket.
Search this class, subclass 133.

132. SHADE OR BOWL SUPPORTS, SOCKET COVERS. Includes supports for shades or reflectors which embrace a cover for the electric socket.
Search this class, subclass 134.

133. SHADE OR BOWL SUPPORTS, SOCKET COVERS, CLAMPING JAWS. Includes supports which also cover the electric socket and clamp the rim of the shade or reflector on the inside and outside.

134. SHADE OR BOWL SUPPORTS, SPRING RING. A spring ring to hold or clamp the rim of a shade, reflector, or globe within the flange of a frame such as a socket cover, socket extension, or skeleton frame.

135. SHADE OR BOWL SUPPORTS, BASE. Supports which engage the shade, reflector or globe at its lower end, the support not being an integral part of the shade, etc.
Search this class, subclasses 98 and 144.

136. SHADE OR BOWL SUPPORTS, BASE, SPIDER. Supports for shades, reflectors, bowls, or globes that consist of a series of radial arms directly engaging the shade, reflector, bowl, or globe, the support not being an integral part of the shade, etc.
Search this class, subclass 144.

137. SHADE OR BOWL SUPPORTS, REMOVABLE SOCKET COLLAR. Supports in the form of collars mounted on the lower part of an electric socket. Upon removal of the collar the shade or reflector slips off the socket.

138. SHADE OR BOWL SUPPORTS, SPRING FRAME ON BULB. Supports in the form of spring frames mounted directly on the bulb.

139. SHADE OR BOWL SUPPORTS, SPRING FRAME ON BODY OF CHIMNEY. Supports in the form of spring frames mounted directly on the middle or bulged portion of the lamp chimney.

140. SHADE OR BOWL SUPPORTS, SIDE. Devices to support a shade or reflector on the side of the light source.
Search this class, subclasses 105 and 110.

141. SHADE OR BOWL SUPPORTS, ON CANDLE. Devices specially designed to support shades, reflectors, or globes upon candles.

142. SHADE OR BOWL SUPPORTS, COMBINED WITH SHADE. Supports attached to electric sockets which are partially or entirely joined or integral with the shade or reflector.

143. SHADE OR BOWL SUPPORTS, COMBINED WITH SOCKET OR SHELL. Supports which are formed integrally with a portion of the socket or its shell.

144. SHADE OR BOWL SUPPORTS, ADJUSTABLE. Supports which are adapted to be adjusted to fit various sizes of shades, reflectors, or globes or to change their position in relation to the light source.

145. SHADE OR BOWL SUPPORTS, COLLAPSIBLE. Supports that are adapted to be folded, collapsed, or knocked down.

146. SHADE OR BOWL SUPPORTS, DROP. Supports that allow the shade, reflector, bowl, or globe to be readily dropped or otherwise moved out of the way relative to the light source to allow access to the light for the purpose of trimming the same.
Search this class, subclass 30, and the subclasses indented thereunder.

147. SHADE OR BOWL SUPPORTS, DROP, HINGED. Hinged supports that allow the shade, reflector, bowl, or globe to be readily moved out of the way relative to the light source.

148. SHADE OR BOWL SUPPORTS, INTERIOR ARMS AND RING, CROWN ENGAGED. Supports comprising a plurality of substantially vertical arms carrying a flanged ring or shield. The ring or shield engages the perforation in the crown of the shade or bowl, and the arms are within the shade or bowl and are attached at their other ends to the light support or electric socket. The shade or bowl may be inverted or uprightly mounted.

149. INVERTED-BOWL SUSPENSION DEVICES. Includes supports such as bands, clips, or fastening means engaging the rim of the bowl for indirect lighting. The bands or clips are carried by or supported from chains, rods, etc.

150. INVERTED-BOWL SUSPENSION DEVICES, COMBINED WITH LIGHT SUPPORTS. The bowl-supporting bands, clips, or fastening devices are provided with brackets or similar means to support one or more electric sockets.

151. LENS HOLDERS OR SUPPORTS. Includes attaching devices to support a lens on a chimney, electric socket, lantern, or light support to modify the direction or color of the rays passing through the lens.

152. LENS HOLDERS OR SUPPORTS, PERFORATED PLATE. Includes devices for attaching a lens or lenses to plates, which are perforated to receive them.

Search Class—
40—CARD, PICTURE, AND SIGN EXHIBITING, subclass 130, Signs, Illuminated.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 29, 1923.

[VOL. 310. No. 5.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 125,503. (CLASS 37. PAPER AND STATIONERY.) HIGHLAND MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 2, 1919.

PATRICIAN

Trade mark "Patrician."

Particular description of goods.—Writing, Typewriting, and Printing Papers; Papeteries; Writing, Correspondence, and Index Cards; Tablets, and Pads.

Claims use since about April, 1915.

Ser. No. 135,212. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PHILIPPS AKTIEN-GESELLSCHAFT, Frankfort on the Main, Germany. Filed July 20, 1920.

Philag

Particular description of goods.—Orchestrions, Pianos, Harmoniums, Organs, Violins, Cellos, Guitars, Zithers, Mandolins, Xylophones, Fifes, Flutes, Trumpets, Trombones, Clarinets, Drums, Timbrels, Cymbals, Hand Organs, Metronomes, Conducting Batons, Accordions, Music Boxes and Chimes, Automatic Orchestrions, Automatic Guitars, Automatic Pianos, Automatic Violins, Automatic Cellos, Automatic Zithers, Automatic Mandolins, Automatic Xylophones, Automatic Accordions, Automatic Music Boxes, Pneumatic Player Pianos, Pneumatic Player Harmoniums, and Pneumatic Player Organs for Reproduction of Artistic Music; Key-Board Self-Playing Attachments for Such Pianos, Harmoniums, and Organs and Attachment and Equipment Parts, Therefor—Namely, Note-Roll Ribbons, Perforated Note Sheets, Complete Mechanisms for Running the Note-Roll Ribbon, Complete Pneumatic Actions, Complete Player Mechanisms, Mechanical Wind Motors, Spool Boxes, Transmission Gear, Tracking Mechanisms for the Note-Roll Ribbons, Valves, Bellows, Mechanical Power Plants, Strings, Organ Pipes, Violin Bows, Batter Heads, Drumsticks, Sound Pipes, Air-Conduit Pipes, Piano Hammers and Keys, and Piano Mechanisms and Phonographs.

Claims use since July 1, 1919.

Ser. No. 136,626. (CLASS 5. ADHESIVES.) ELMER A. GARTEN, Hinton, W. Va. Filed Aug. 30, 1920.

EUREKA

Particular description of goods.—Composition for Stopping Leaks in Tires and for Preserving Rubber.

Claims use since Jan. 10, 1919.

Ser. No. 140,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPECIAL PRODUCTS LABORATORY, INC., O'Fallon, Ill. Filed Dec. 9, 1920.

PYROBALM

No claim being made for the word "Balm" apart from the mark as shown in the drawing.

Particular description of goods.—An Ointment for Treatment of Burns and Denudations of Skin.

Claims use since July 1, 1917.

Ser. No. 141,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARDSON & HOLLAND, INC., Seattle, Wash. Filed Dec. 21, 1920.

VELVET

Particular description of goods.—Powdered Sugar.
Claims use since June 1, 1916.

Ser. No. 145,463. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) MEYER KAMENSTEIN, Brooklyn, N. Y. Filed Mar. 30, 1921.

THE PRIDE

Particular description of goods.—Washboilers.
Claims use since Mar. 1, 1921.

Ser. No. 148,851. (CLASS 37. PAPER AND STATIONERY.) HERMAN G. POHLMANN, Chicago, Ill. Filed June 8, 1921.

LADY DAINTY

Particular description of goods.—Writing Paper.
Claims use since January, 1920.

Ser. No. 154,850. (CLASS 11. INKS AND INKING MATERIALS.) H. M. STORMS COMPANY, Brooklyn, N. Y. Filed Oct. 31, 1921.



Particular description of goods.—Carbon Paper, Typewriter Ribbons, Inked Ribbons, and Carbon-Coated Sheets.
Claims use since Oct. 20, 1921.

Ser. No. 155,304. (CLASS 38. PRINTS AND PUBLICATIONS.) FICTION HOUSE, INC., New York and Long Island City, N. Y. Filed Nov. 12, 1921.

ACTION STORIES

Particular description of goods.—Magazines, Books, and Stories, Being Applied to a Monthly Magazine Which Appears in Due Course at Regular Intervals. It is Also Applied to Completely-Printed Books of Various Titles Which are Put Out Under This Mark.
Claims use since Aug. 1, 1921.

Ser. No. 155,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLMANS CO., Milwaukee, Wis. Filed Nov. 17, 1921.

ALL-MEN'S

The trade-mark, as shown in the drawing and the specimens, comprising the word "All-Men's."
Particular description of goods.—After Shave, a Lotion Applied to the Face After Shaving; Hair Tonic, Tooth Paste, Face Powder, Bandoline, Brilliantine and Shampoo.
Claims use since Apr. 21, 1920.

Ser. No. 155,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL ALMOND PRODUCTS CO. INC., Brooklyn, N. Y. Filed Nov. 17, 1921.



No claim is made for the words "Trade-Mark," appearing on the drawing.
Particular description of goods.—Almond Paste, Almonds Salted and in Their Natural State, Kernel Paste, Marzipan Paste, Blanched Peanuts, Blanched Almonds, Blanched Bitter Apricot Kernels, Sliced Peanuts, Sliced Almonds, Sliced Bitter Apricot Kernels, Granulated Peanuts, Granulated Almonds, Granulated Bitter Apricot Kernels, Granulated Desiccated Nuts, Peanut Flour, Almond Flour, Bitter-Apricot-Kernel Flour, and Nut Flour.
Claims use since Mar. 22, 1916.

Ser. No. 156,048. (CLASS 37. PAPER AND STATIONERY.) ASA J. BUREN, Cullom, Ill. Filed Nov. 29, 1921.

"Save a life"

Particular description of goods.—Moisteners in the Form of Water-Holding Bottles or Containers Having a Sponge in the End Thereof Which is Used in Sealing Up Stationery.
Claims use since Oct. 1, 1921.

Ser. No. 156,206. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WEBSTER BROTHERS, New York, N. Y. Filed Dec. 2, 1921.



Particular description of goods.—Cutlery—viz, Domestic and Pocket Knives, Commercial and Trade Knives, Hair Clippers, Razors, and Scissors.
Claims use since Nov. 1, 1891.

Ser. No. 157,050. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UTILITY SERVICE ASSOCIATION, Chicago, Ill. Filed Dec. 22, 1921.



Particular description of goods.—Toilet-Paper Cabinets.
Claims use since on or about June 1, 1921.

Ser. No. 157,369. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALFRED C. GOETHEL CO., Milwaukee, Wis. Filed Dec. 31, 1921.

TRADE TAIFUN MARK

The vertically-lined portions of the word "Taifun" in the drawing conventionally indicate the red color of corresponding portions of the mark as used. The words "Trade" and "Mark" are disclaimed apart from the mark as shown.
Particular description of goods.—Dust Collectors.
Claims use since Oct. 1, 1921.

Ser. No. 157,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILDRED GAPEN BOWEN, Chicago, Ill. Filed Jan. 12, 1922.

SUB ROSA

Particular description of goods.—Deodorants.
Claims use since Feb. 1, 1921.

Ser. No. 158,829. (CLASS 32. FURNITURE AND UPHOLSTERY.) GLADDING DRY GOODS CO., Providence, R. I. Filed Feb. 3, 1922.



Particular description of goods.—Bookcases, Beds, Book Ends, Buffets, Benches as Articles of Furniture, Desks, Dressers, Dressing Tables, Day Beds, Folding Screens, Newspaper Racks, Palm Stands, Toilet Mirrors, Telephone Stands, Table Chairs, Lounging Chairs and Chairs Used as Furniture, Settees, Fern Stands, Foot Stools or Stands, Dining Tables, Sewing Tables, Tip-Up Tables, Gate-Leg Tables, and Other Tables Used as Articles of Furniture; Tea Wagons, Cedar Chests, Chests of Drawers, Chiffoniers, Chifforobes, China Closets, Davenports, Costumers, Highboys, Magazine Stands, Muffin Stands, Mirrors, Smoking Stands, Sewing Tables, Smoker Cabinets, Secretaries, and Wooden Umbrella Stands.
Claims use since 1907.

Ser. No. 158,989. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) EMILY GODWIN FRY LOCKYER, London, England. Filed Feb. 7, 1922.

HOTLOCK

Particular description of goods.—Heated Packing Cases for Keeping Food Hot.
Claims use since Oct. 18, 1921.

Ser. No. 159,049. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PREMIER CUTLERY, INC., New York, N. Y. Filed Feb. 8, 1922.

Elk

Particular description of goods.—Certain Kinds of Cutlery of Base Metal.
Claims use since Apr. 5, 1921.

Ser. No. 159,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SAFETY WIRE GAS GLOBE CO., Columbus, Ohio. Filed Feb. 13, 1922.

DEODORITE

Particular description of goods.—Odor Absorbents and Adsorbents.
Claims use since January, 1922.

Ser. No. 159,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISIDOR JACOB SELKOWITZ, doing business as Mirose Laboratories, New York, N. Y. Filed Feb. 20, 1922.

MIROSE
IDEAL
MIROSE LABORATORIES

Particular description of goods.—Hair Tonic, Complexion Powder, Antiseptic Eye Bath, Depilatory, Hair Cleanser, and Foot Powder.
Claims use since Oct. 1, 1921.

Ser. No. 159,690½. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NITROSE COMPANY, Peoria, Ill. Filed Feb. 23, 1922.

NITROSE

Particular description of goods.—Ready-Mixed or Paste Paint.
Claims use since Feb. 1, 1921.

Ser. No. 160,140. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOSMOS CHEMICAL COMPANY, Cincinnati, Ohio. Filed Mar. 3, 1922.

NAILENE

Particular description of goods.—Finger-Nail Liquid Gloss.
Claims use since Jan. 20, 1922.

Ser. No. 160,778. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RUGCLENSO MFG. CO., Topeka, Kans. Filed Mar. 16, 1922.

RUGCLENSO MFG. CO. RUGCLENSO

Particular description of goods.—Rug-Cleaning Compound.
Claims use since February, 1922.

Ser. No. 161,182. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Mar. 24, 1922.

GENERAL ELECTRIC CO. GE WHIZ 110 VOLTS 60 CYC. U.S.A.

No claim is made to the words and figures "110 Volts 60 Cycles" or the letters "U. S. A." apart from the mark shown in the drawing.
Particular description of goods.—Electric Motors.
Claims use since January, 1918.

Ser. No. 161,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DONALD W. HOWE, Rochester, N. Y. Filed Mar. 28, 1922.

SEA FOAM

Particular description of goods.—Foods and Ingredients of Foods, Covering Specifically Mayonnaise, Sweet Whip or Creme Topping for Desserts, Salads, Chocolate and Baked Cake, and Sugar-Coated Pop-Corn Kernels.
Claims use since Mar. 1, 1919.

Ser. No. 161,380. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.



No claim is made herein to the exclusive use of the word "Brand" apart from the mark shown.
Particular description of goods.—Wool.
Claims use since July 30, 1896.

Ser. No. 161,493. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ESTATE OF JULIA V. H. MAGEE, Magnetic Springs, Ohio. Filed Mar. 30, 1922.

MAGNETIC

Particular description of goods.—Medicinal Water.
Claims use since 1912.

Ser. No. 161,695. (CLASS 15. OILS AND GREASES.) THE NATIONAL REFINING COMPANY, Cleveland, Ohio. Filed Apr. 3, 1922.



Particular description of goods.—Lubricating Grease.
Claims use since Aug. 1, 1921.

Ser. No. 161,840. (CLASS 15. OILS AND GREASES.) CHARLES F. KELLOM, doing business as Chas. F. Kellom & Co., Philadelphia, Pa. Filed Apr. 6, 1922.

INVADER



Particular description of goods.—Crude Oil, Gasoline, and Kerosene.
Claims use since about Nov. 15, 1903.

Ser. No. 162,613. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES PATRICK DIXON, doing business as Itis-Real Remedy Company, Kansas City, Kans. Filed Apr. 20, 1922.

ITIS-REAL

Particular description of goods.—Salves and Ointments.
Claims use since Feb. 15, 1921.

Ser. No. 163,070. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOLLIE ASHER, doing business as Paradise Preparations, Chicago, Ill. Filed Apr. 29, 1922.

PARADISE

Particular description of goods.—Cold Cream, Greaseless Cream, Lotions for the Treatment of Sunburn and for Bleaching and Softening the Skin, Toilet Waters, and Perfumes.
Claims use since Aug. 15, 1920.

Ser. No. 163,677. (CLASS 17. TOBACCO PRODUCTS.) GENE-VALL CIGAR CO., INC., New York, N. Y. Filed May 11, 1922.

HIGH LIFE

Particular description of goods.—Cigars.
Claims use since October, 1916.

Ser. No. 163,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLOBE LABORATORIES, Fort Worth, Tex. Filed May 12, 1922.

GLOBE LABORATORIES

The vertical shade lines in the drawing being indicative of the color red.

Particular description of goods.—Clear Refined Anti-Hog-Cholera Serum, Anti-Hog-Cholera Serum, Hog-Cholera Virus, Mixed Infection Bacterin for Swine, Swine-Plague Bacterin, Blackleg Aggressin (Kansas Germ-Free Vaccine), Sterile Abortion Bacterin for Cattle, and Hemorrhagic Septicemia Bacterin for Cattle and Sheep.

Claims use since Dec. 20, 1920.

Ser. No. 163,850. (CLASS 2. RECEPTACLES.) THE ARIDOR COMPANY, Chicago, Ill. Filed May 15, 1922.

ARIDOR

Particular description of goods.—Jars, Cases, and Other Receptacles for Displaying, Drying, or Otherwise Preserving and Protecting the Contents Thereof.

Claims use since Apr. 1, 1920.

Ser. No. 164,317. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HORNE MANUFACTURING CO., Jersey City, N. J. Filed May 23, 1922.

"VENUS"

Trade-mark consists of the word "Venus."

Particular description of goods.—Radio Receiving Sets and Parts Thereof.

Claims use since Apr. 15, 1922.

Ser. No. 165,214. (CLASS 47. WINES.) SOCIETE VINICOLE DE CHAMPAGNE, Paris, France. Filed June 8, 1922. Under ten-year proviso.

MUMM-REIMS

Particular description of goods.—Champagne Wine.

Claims use since Jan. 1, 1853.

Ser. No. 165,600. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN AUTO LAMP CO. INC., New York, N. Y. Filed June 16, 1922.

YANKEE

The drawing is lined to indicate red.

Particular description of goods.—Electric Automobile Lamps.

Claims use since Dec. 1, 1917.

Ser. No. 165,898. (CLASS 39. CLOTHING.) JULIUS TOPIAS & BRO., Boston, Mass. Filed June 22, 1922.

Puritan Hats for LADIES
REG. U. S. PAT. OFF.

The exclusive right to the use of the words "Hats for Ladies" and "Reg. U. S. Pat. Off.," apart from the mark shown, is hereby disclaimed. The pictorial representation of a hat apart from the mark as shown is also disclaimed.

Particular description of goods.—Hats for Women.

Claims use since June 1, 1922.

Ser. No. 165,911. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN C. BURRIS, Nashville, Tenn. Filed June 23, 1922.

PROOF

No claim is made to the word "Proof" aside from the mark shown.

Particular description of goods.—Paint Enamels.

Claims use since February, 1922.

Ser. No. 166,154. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed June 27, 1922.

DURAWIRE

Particular description of goods.—Rubber-Covered Wire and Rubber-Covered Flexible Cords, Both for Electrical Purposes.

Claims use since June 9, 1922.

Ser. No. 166,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. PRATT CARROLL, INC., doing business as Sebastian Packing Co., New York, N. Y. Filed July 1, 1922.

BLUE DUCK

Particular description of goods.—Fresh Grapefruit, Oranges, Tangerines, Pineapples, Limes, Lemons, Tomatoes, Peppers, Egg Plants, Cantaloupes, Artichokes, Peas, Beans, Lettuce, Honey Dew Melons, Casabas, Peaches, Apples, Plums, Berries, Cauliflower, and Grapes.

Claims use since June 20, 1922.

Ser. No. 166,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN ESS LABORATORIES, INC., Chicago, Ill. Filed July 3, 1922.

VAN ESS

Particular description of goods.—Massage Preparations or Tonics for the Treatment of the Head and Scalp.

Claims use since Aug. 1, 1921.

Ser. No. 166,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLENGE'S PHARMACY INC., Charleston, S. C. Filed July 8, 1922.

PLENGE'S RED DEVIL ANT MATS

No claim is made to the words "Ant Mats."

Particular description of goods.—Ant Mats and Containers Sold to the Trade in Combination Only.

Claims use since March, 1921.

Ser. No. 166,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DETROIT PACKING COMPANY, Detroit, Mich. Filed July 10, 1922.

EARLTRIPE BEEF

The words "Beef" and "Hereford" do not form a part of the registration sought apart from the marks shown in the drawing.

Particular description of goods.—Fresh Beef.

Claims use since June, 1921.

Ser. No. 167,004. (CLASS 39. CLOTHING.) THE LA RESISTA CORSET COMPANY, Bridgeport, Conn. Filed July 17, 1922.

FLAT-ER-BACK

Particular description of goods.—Corsets.

Claims use since Apr. 1, 1922.

Ser. No. 167,113. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLOWS, FRANCIS, BUTLER & THOMPSON, LIMITED, London, England, and The Plains, Va. Filed July 19, 1922.

TENALINE

Particular description of goods.—A Remedy for Worms in Dogs.

Claims use since the 1st day of July, 1897.

Ser. No. 167,156. (CLASS 15. OILS AND GREASES.) APEX MOTOR FUEL AND LUBRICANT CO., Chicago, Ill. Filed July 21, 1922.

BLUE ROCK

Particular description of goods.—Lubricating Oils and Gasoline.

Claims use since June 1, 1922.

Ser. No. 167,354. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ILLINOIS ELECTRIC PORCELAIN COMPANY, Macomb, Ill. Filed July 25, 1922.

BULL-DOG

Particular description of goods.—Insulators, Split Insulators, Assembled Split Insulators, and Knobs.

Claims use since July 1, 1918.

Ser. No. 167,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. JANASEN & Co., San Francisco, Calif. Filed July 31, 1922.



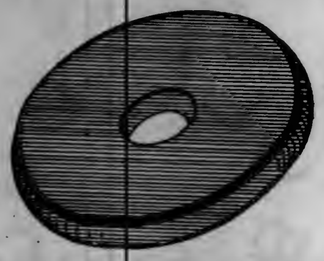
The applicant disclaims the exclusive right to the use of the words "Olio d' Oliva," "Extra, Di Lucca Toscana," "Italia," "Brand," "Distributors," and "San Francisco, Cal. U. S. A." apart from the mark as shown.
Particular description of goods.—Olive Oil.
Claims use since May 19, 1903.

Ser. No. 167,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEO. J. LAPRES, INC., Atlantic City, N. J. Filed Aug. 3, 1922. Under ten-year proviso.

Fralinger's

Particular description of goods.—Salt-Water Taffy.
Claims use since 1894.

Ser. No. 167,958. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) M. TECLA & Co., New York, N. Y. Filed Aug. 8, 1922.



The trade-mark consists in a blue-colored disk of substantially the same average dimensions as that of the pearls of the necklace. The drawing is lined for the blue color.
Particular description of goods.—Pearl Necklaces.
Claims use since about Aug. 3, 1922.

Ser. No. 168,152. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. E. HOOPER & SONS Co., Woodberry, Md. Filed Aug. 12, 1922.

PARKDALE

Particular description of goods.—Woven Belting, Hose, Fire Hose, Filter Tubing, Valve Packing, Braided Packing, Woven Packing, and Brake Banding, All Made of Cotton; Asbestos Brake Banding and Cotton Stitched Belting for Power Transmission, Elevating, and Conveying.
Claims use since July 6, 1922.

Ser. No. 168,292. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HENRY BLAKE HARNESS COMPANY, Chicago, Ill., assignor to Babson Bros., Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1922.

Olde Tan

Particular description of goods.—Harness.
Claims use since about June 15, 1922.

Ser. No. 168,536. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) BETTY LOU, Chicago, Ill. Filed Aug. 21, 1922.



I hereby disclaim the exclusive use of the words "Face Powder" apart from the mark shown on the drawing. The picture appearing on the drawing is a portrait of the applicant.
Particular description of goods.—Face Powders.
Claims use since September, 1921.

Ser. No. 168,680. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE HEITEL, New York, N. Y. Filed Aug. 25, 1922.

SAV—ER—HOS

Particular description of goods.—Chemical Preparation for Preventing the Further Tearing and Ripping of Hosiery.
Claims use since Aug. 1, 1922.

Ser. No. 168,999. (CLASS 39. CLOTHING.) CARADINE HARVEST HAT COMPANY, St. Louis, Mo. Filed Sept. 2, 1922.



The representation of the hat and the word "Caradine" are disclaimed apart from the mark shown.
Particular description of goods.—Straw Hats for Men, Women, and Children.
Claims use since Aug. 29, 1922.

Ser. No. 169,014. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HARRY GOLDMAN, Chicago, Ill. Filed Sept. 2, 1922.

Fone Dollie

Particular description of goods.—Advertising Devices in the Nature of Phone Shields.
Claims use since Aug. 15, 1922.

Ser. No. 169,141. (CLASS 39. CLOTHING.) DANIEL STARR, doing business as Starr Knitting Mill, Brooklyn, N. Y. Filed Sept. 6, 1922.

CHAMPION SPORTKNIT

The word "Sportknit" is disclaimed apart from the mark shown, the lining on drawing being shading only.
Particular description of goods.—Knit Sweaters.
Claims use since May 1, 1922.

Ser. No. 169,232. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALPHEN, INC., New York, N. Y. Filed Sept. 9, 1922.

Alphen

Particular description of goods.—Baseballs, Baseball Gloves, Baseball Bats, Baseball Masks, Chest Protectors, Bat Bags, Heel Plates, Toe Plates, Handballs, Medicine Balls, Volley Balls, Tennis Rackets, Tennis-Racket Cover, Tennis Markers, Tennis Nets, Tennis Posts, Tennis Tapes, Golf Sets (Golf Bags and Golf Clubs), Golf Balls, Hockey Sticks, Boxing Gloves, Punching Bags, Jumping Sticks, Roller Skates, Basketballs, Dumbbells, Wands, Indian Clubs, Quoits, Megaphones, Flotation Swimming Devices, Polo Balls.
Claims use since 1920.

Ser. No. 169,680. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MANUFACTURING JEWELERS EXPORT CO., INC., New York, N. Y. Filed Sept. 19, 1922.

Barrycraft

Particular description of goods.—Articles of Jewelry and Personal Adornment, Not Including Watches, and Powder Boxes and Coin Purses Made in Whole or in Part of Precious Metal.
Claims use since Mar. 1, 1922.

Ser. No. 169,818. (CLASS 39. CLOTHING.) PARKER-BRIDGET COMPANY, Washington, D. C. Filed Sept. 22, 1922.

Perma-Silk

No claim is made showing exclusive use of the word "Silk" except in the association shown.
Particular description of goods.—Men's Neckties.
Claims use since Sept. 1, 1921.

Ser. No. 169,972. (CLASS 39. CLOTHING.) F. P. HOY, INC., New York, N. Y. Filed Sept. 27, 1922.

Eileen

The lining is for shading purposes only.
Particular description of goods.—Corsets.
Claims use since Aug. 31, 1922.

Ser. No. 170,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SILVER PALM CITRUS GROWERS ASSOCIATION, Naranja, Fla. Filed Sept. 28, 1922.

SILVER PALM

Trade-mark consists of the words "Silver Palm."
Particular description of goods.—Fresh Citrous Fruits.
Claims use since Sept. 27, 1921.

Ser. No. 170,128. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) DETROIT CITY GAS COMPANY, Detroit, Mich. Filed Sept. 30, 1922.

CITIGAS SPECIAL

No claim is made to the exclusive use of the word "Special" apart from the other features of the mark.
Particular description of goods.—Domestic Gas Ranges.
Claims use since Aug. 1, 1914.

Ser. No. 170,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL B. LEVEY, doing business as Wonder Products Company, Newark, N. J. Filed Sept. 30, 1922.

WONDER

SHAMPOO

Trade-mark consists of the words "Wonder Shampoo" no claim having been made to the word "Shampoo" apart from the association shown.
Particular description of goods.—Shampoo.
Claims use since February, 1922.

Ser. No. 170,266. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT E. BALLANCE, doing business as Ballance and Company, Greensboro, N. C. Filed Oct. 4, 1922.



No claim is made to the word "Kisses" apart from the mark as shown in the drawing. The lines upon the drawing are used to indicate shading.
Particular description of goods.—Candy Kisses.
Claims use since January, 1907.

Ser. No. 170,342. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HEINRICH SCHNEELER, Schaffhausen, Switzerland. Filed Oct. 5, 1922.



Particular description of goods.—Six-Corner-Ricocheting-Balls—Namely, Hand and Foot Balls of Rubber.
Claims use since Aug. 3, 1922.

Ser. No. 170,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUMBERLAND CHEMICAL CO., Nashville, Tenn. Filed Oct. 7, 1922.

Soothettes

The trade-mark consists of the arbitrarily-coined word "Soothettes."
Particular description of goods.—Proprietary Medicinal Preparations.
Claims use since Aug. 23, 1917.

Ser. No. 170,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDAHO PRODUCERS' UNION, Caldwell, Idaho. Filed Oct. 13, 1922.

SNOWLINE

Particular description of goods.—Fresh Vegetables, Fresh Citrous Fruits, Fresh Grapes, and Melons.
Claims use since Aug. 25, 1922.

Ser. No. 170,993. (CLASS 39. CLOTHING.) THE SACHS SHOE MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Oct. 20, 1922.

ARCH-TRIUMPH

Particular description of goods.—Shoes Made of Leather and Also of Combinations of Leather and Fabric.
Claims use since Oct. 31, 1921.

Ser. No. 171,427. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. LOWRANCE, Boston, Mass. Filed Oct. 31, 1922.

Mello-glo

Particular description of goods.—Cold Cream, Complexion Powder, Face Powder, Tooth Paste, and Toilet Water.
Claims use since Oct. 2, 1922.

Ser. No. 171,454. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Nov. 1, 1922.



The lining in the drawing indicates the color red.
Particular description of goods.—Vehicle Tires Made Wholly or Partly of Rubber and Rubber Tubes Therefor.
Claims use since Oct. 6, 1922.

Ser. No. 171,544. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MASTER RADIO CORPORATION, Los Angeles, Calif. Filed Nov. 3, 1922.

"Throatype"

Particular description of goods.—Radiotelephone Attachments for Mechanically Amplifying the Tone Volume of Sounds Reproduced by the Receiver of Wireless Telephones.
Claims use since Aug. 10, 1922.

Ser. No. 171,701. (CLASS 39. CLOTHING.) THE ROBT. KRAUSE CO., Davenport, Iowa. Filed Nov. 7, 1922.



Particular description of goods.—Overalls, Shirts, Pants or Trousers, Coats, One-Piece Work Suits, and Play Suits.
Claims use since about 1887.

Ser. No. 171,712. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANLEY HILLER, INC., San Jose, Calif. Filed Nov. 7, 1922.

WASTE-LESS

Trade-mark consists of the words "Waste-Less."
Particular description of goods.—Waste-Saving Machinery and Apparatus—Namely, Apparatus for Producing Fish Meal, Apparatus for Revivifying Kieselguhr, Apparatus for Producing Charcoal, and Sirup Clarifiers.
Claims use since Sept. 1, 1921.

Ser. No. 171,756. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 9, 1922.



The right to the use of the words "Hog-Scald," apart from the mark as shown, is hereby disclaimed.
Particular description of goods.—Chemical Preparation for Facilitating the Scalding of Hogs, Helping to Remove the Dirt, and Thereby Whitening the Skin of Hogs.
Claims use since April, 1910.

Ser. No. 171,757. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. HELLER & COMPANY, Chicago, Ill. Filed Nov. 9, 1922.

$1000 00 GUARANTEED GOLDEN SHINE
REG. U.S. PAT. OFF.

The words "$1000 00 Guaranteed, Shine, Reg. U. S. Pat. Off." are hereby disclaimed apart from the mark shown.

Particular description of goods.—Metal Polish.

Claims use since September, 1922.

Ser. No. 171,837. (CLASS 39. CLOTHING.) FEDERAL UNDERWEAR CO., New York, N. Y. Filed Nov. 11, 1922.

Lucky Baby

Particular description of goods.—Infants' Coats.

Claims use since about Sept. 15, 1922.

Ser. No. 172,122. (CLASS 39. CLOTHING.) CHARLOTTE EVANS REITH, Carthage, Mo. Filed Nov. 16, 1922.

NATIONAL PARK

Particular description of goods.—Outer Suits of Cloth and Leather.

Claims use since July 5, 1922.

Ser. No. 172,185. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEO. R. UNKEFER, INC., Chicago, Ill. Filed Nov. 16, 1922.

VALUSET
THE GREAT WHITE WAY

Particular description of goods.—Oil Used in Making Ready-Mixed Enamels and Paints.

Claims use since Sept. 11, 1922.

Ser. No. 172,171. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NAAMLOOZE VENNOOTSCHAP LAK-, VERF- & VERNISFABRIEK "IVORMICA," Schiedam, Netherlands. Filed Nov. 17, 1922.



The words "Schiedam-Holland" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Ready-Mixed Paints, Lacquers, Varnishes, and Solvent for Varnishes and Paints.

Claims use since May 1, 1907.

Ser. No. 172,207. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALHOUN, ROBBINS & CO., New York, N. Y. Filed Nov. 18, 1922.



Particular description of goods.—Hair Tonics, Smelling Salts, Witch-Hazel, Peroxide, Bay Rum, Perfumes, Petroleum Jelly, Camphor Ice, Toilet Waters, and Cold Cream.

Claims use since July 1, 1890.

Ser. No. 172,212. (CLASS 39. CLOTHING.) THE CLEVELAND OVERALL COMPANY, Cleveland, Ohio. Filed Nov. 18, 1922.

MINUTE

Particular description of goods.—Overalls.

Claims use since Oct. 31, 1922.

Ser. No. 172,404. (CLASS 38. PRINTS AND PUBLICATIONS.) MAX B. SHEFFER CARD CO., Chicago, Ill. Filed Nov. 22, 1922.

"PEACHES FROM THE BEACHES"

Particular description of goods.—Sets of Pictures.

Claims use since about Sept. 1, 1922.

Ser. No. 172,422. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LAKE ERIE PROVISION COMPANY, Cleveland, Ohio. Filed Nov. 23, 1922.

MEADOWLARK

Particular description of goods.—Hams, Bacon, Lard, and Sausage Products.

Claims use since about Oct. 26, 1922.

Ser. No. 172,425. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MANTON-GAULIN MANUFACTURING COMPANY, INC., Boston and South Boston, Mass. Filed Nov. 23, 1922.

Gaulin

No claim is made to the name "Gaulin" apart from the mark shown.

Particular description of goods.—Homogenizer for Rendering Homogeneous the Ingredients of Compounded Products.

Claims use since Oct. 6, 1921.

Ser. No. 172,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER J. HIRSCH COMPANY, Chicago, Ill. Filed Nov. 25, 1922.

BLACK MONK

Particular description of goods.—Ice-Cream Cones.

Claims use since June 22, 1922.

Ser. No. 172,586. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARY JANE AIKENHEAD DAVY, New York, N. Y. Filed Nov. 27, 1922.

MIADA

Color is not a particular feature of the mark, the lining being for shading only.

Particular description of goods.—Fasteners Made of Ribbon or Other Material for Holding in Place Lingerie Ribbons or Straps.

Claims use since Oct. 30, 1922.

Ser. No. 172,595. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE H. HYLAND, doing business as Standard Homeopathic Company, Los Angeles, Calif. Filed Nov. 27, 1922.

Hyland's

14

Particular description of goods.—Remedy for Cold in Head, Grippe, Influenza, Fever, Soreness of Muscles, Summer Colds, and Nervous Headaches.

Claims use since Oct. 1, 1917.

Ser. No. 172,629. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) J. M. HAYS WOOD PRODUCTS COMPANY, Division of Standard Crate & Filler Company, Jefferson City, Mo. Filed Nov. 27, 1922.

Hickory Hitter

Particular description of goods.—Automobile Bumper.

Claims use since Nov. 1, 1922.

Ser. No. 172,637. (CLASS 31. FILTERS AND REFRIGERATORS.) CARBONDALE MACHINE COMPANY, Carbondale, Pa. Filed Nov. 28, 1922.

CARMACO

Particular description of goods.—Refrigerating and Ice-Making Plants, Apparatus, Machines, and Parts and Accessories Thereof—Namely, Ammonia Generator, Shell-

Type Exchanger, Double-Pipe Exchanger, Analyzer, Double-Pipe Rectifier, Atmospheric Rectifier, Shell-Type Absorber, Tubular Absorber, Double-Pipe Absorber, Atmospheric Absorber, Double-Pipe Weak-Liquor Cooler, Atmospheric Weak-Liquor Cooler, Multiple-Effect Absorber, Multiple-Effect Cooler, Aqua-Ammonia Receiver, Aqua-Ammonia Pump, Anhydrous-Ammonia Pump, Aqua-Ammonia-Pump Regulator, Weak-Liquor Regulator, Single-Stage Horizontal Ammonia Compressor, Single-Stage Vertical Ammonia Compressor, Two-Stage Horizontal Ammonia Compressor, Multiple-Effect Ammonia Compressor, Ammonia Intercooler, Water Intercooler, Anhydrous Cooler, Anhydrous Receiver, Tubular Ammonia Condenser, Atmospheric Ammonia Condenser, Double-Pipe Ammonia Condenser, Tubular Brine Cooler, Shell-Type Brine Cooler, Double-Pipe Brine Cooler, Oil Cooler, Purge Absorber or Ammonia Economizer, Ammonia Nut Unions, Ammonia Plugs, Ammonia Bushings, Shell Saddles, Sprockets, Steam-Regulating Valves, Freezing Tanks, Ice Cans, Can-Filling Tank, Agitators, Dipping Tank, Expansion Coils, Evaporator, Reboiler, Skim Tank, Fore Cooler, Flat Cooler, Feed-Water Heater, Sponge Filter, Sand Filter, Charcoal Filter, Air Cooler, Air Dehydrator, Brine Tank, Drinking-Water-Cooling Tank, Steam Condenser, Filter Press, Filter-Press Blanket, Filter-Press Ring, Chilling Machine, Chilling-Machine Worm-Gear Drive, Chilling-Machine Spur-Gear Drive, Purge Drum, Baudelot Cooler, Ammonia Elbow, Ammonia T, Ammonia Str-way Valve, Ammonia Angle Valve, Ammonia Check Valve, Ammonia Safety Valve, Ammonia Return Bends, Double-Pipe Fittings, Ammonia Oil Separator, Ammonia Suction Strainer, Ammonia Suction Trap, Oil Separator and Water Heater, Ammonia Fitting Lock Nuts, Ammonia-Coil Lock Nuts, Weak-Liquor Injectors, Refrigerant Mixers, Flange Ammonia Unions, Chilling-Machine Bevel-Gear Drive, Sweating Pans, CO_2 Absorber, CO_2 Condenser, CO_2 Rectifier, CO_2 Lye Boiler, CO_2 Gasometer, CO_2 Glycerine Separator, CO_2 Calcium Drier, CO_2 Lye Tank, Zigzag Pipe Coils, Helical Pipe Coils, Trombone Pipe Coils, High-Pressure Vessels for Refrigerating Purposes, Pipe Stands, Ice-Tank Gratings, Ice-Tank Covers, Accumulators, Lye Pumps, Water Pumps, Oil Pumps, Brine Pumps, Core-Sucking Pumps, Centrifugal Fans or Blowers, Air Compressors, Water Filters, Water Stills or Sterilisers, Granulating Machines, CO_2 Scrubbers, CO_2 Compressors, Permanganate Purifiers, Iron-Oxide Purifiers, Oil Filters, Air Washers.

Claims use since Sept. 15, 1922.

Ser. No. 172,699. (CLASS 39. CLOTHING.) WELLS-TREISTER CO., INC., New York, N. Y. Filed Nov. 29, 1922.

"Fur-Most"

Particular description of goods.—Fur Coats, Fur Wraps and Capes, Fur Scarfs and Neckpieces, and Fur Muffs.

Claims use since Nov. 1, 1922.

Ser. No. 172,786. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) UNCAS MANUFACTURING CO., Providence, R. I. Filed Dec. 1, 1922.

Radio

Particular description of goods.—Finger Rings Which are Made of or Plated with Precious Metals.

Claims use since Aug. 1, 1922.

Ser. No. 172,903. (CLASS 2. RECEPTACLES.) SCHLUETER MANUFACTURING CO., St. Louis, Mo. Filed Dec. 4, 1922.



The lining expresses the color red.

Particular description of goods.—Water Pails, Dairy Pails, Cream Cans, Oil Cans, Gasoline Cans, Ash Cans, Garbage Cans, Sprinkling Cans, Bread Boxes, Flour Cans, Coffee Cans, Tea Cans, and Sugar Cans.

Claims use since March, 1915.

Ser. No. 173,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLOCK-ZIMMERMAN & COMPANY, Los Angeles, Calif. Filed Dec. 12, 1922.

B-Z

Particular description of goods.—Pickled Cabbage.

Claims use since Nov. 1, 1922.

Ser. No. 173,297. (CLASS 39. CLOTHING.) PHILLIPS & HART, Jacksonville, Fla. Filed Dec. 13, 1922.



Particular description of goods.—Hosiery.

Claims use since Oct. 20, 1922.

Ser. No. 173,301. (CLASS 39. CLOTHING.) RICHARDSON DRY GOODS COMPANY, St. Joseph, Mo. Filed Dec. 13, 1922.

Lotta Grace

Particular description of goods.—House Dresses and Aprons.

Claims use since Sept. 1, 1922.

Ser. No. 173,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES HULME BERRMAN, doing business as Stillman Freckle Cream Co., Aurora, Ill. Filed Dec. 14, 1922. Under ten-year proviso.

STILLMAN'S

Particular description of goods.—Creams Suitable for the Treatment of Freckles.

Claims use since 1893.

Ser. No. 173,327. (CLASS 39. CLOTHING.) JOHN E. HURST & CO. INCORPORATED, Baltimore, Md. Filed Dec. 14, 1922.



Particular description of goods.—Hosiery Comprising Men's, Women's, Misses', Children's, and Infants' Stockings and Socks; Knitted Underwear Comprising Union Suits, Drawers, Undershirts, and Ladies' Vests; and Gloves, Mittens, and Gauntlets Made of Canvas, Silk, Cotton, and Leather.

Claims use since June 1, 1922.

Ser. No. 173,404. (CLASS 37. PAPER AND STATIONERY.) THE CINCINNATI CORDAGE & PAPER CO., Cincinnati, Ohio. Filed Dec. 16, 1922.

STATE MILLS

Particular description of goods.—Printing Paper and Writing Paper.

Claims use since 1901.

Ser. No. 173,457. (CLASS 39. CLOTHING.) HENRY G. WARLAND, New York, N. Y. Filed Dec. 16, 1922.

JAI-ALAI

Trade-mark consists of the word "Jai-Alai."

Particular description of goods.—Men's and Women's Sport Clothes—Namely, Men's Coats, Vests, Long Trousers, and Knickerbockers, and Ladies' Coats and Skirts.

Claims use since Oct. 25, 1922.

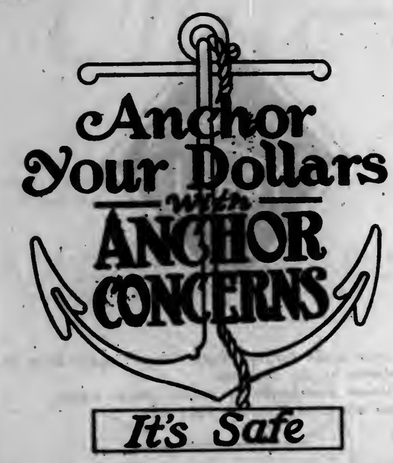
Ser. No. 173,504. (CLASS 37. PAPER AND STATIONERY.) LEVEY PRINTING COMPANY, Indianapolis, Ind. Filed Dec. 18, 1922.



Particular description of goods.—Blank Papers; Printed, Lithographed, and Otherwise Embellished Lining Paper, and Fly Sheets for Book Covers and Letter Heads.

Claims use since January, 1915.

Ser. No. 173,518. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT LOREN MASON, doing business as Anchor Sales Service, Waterloo, Iowa. Filed Dec. 18, 1922.



Particular description of goods.—Trading Certificates.

Claims use since Dec. 13, 1922.

Ser. No. 173,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHROEDER & HINKLE, Columbia, Pa. Filed Dec. 18, 1922. Under ten-year proviso.

Handy : Easter : Egg : Colors

Particular description of goods.—Egg Dye.

Claims use since 1894.

Ser. No. 173,604. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LA VALLIERE COMPANY, New Orleans, La. Filed Dec. 20, 1922.

ALLURE

Trade-mark consists of the word "Allure."
Particular description of goods.—Perfume Extract, Toilet Water, Face Powder, Talcum Powder, Sachet, Bath Salt, and Face and Complexion Creams.
Claims use since 1914.

Ser. No. 173,613. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) VOIGTLÄNDER & SOHN AKTIENGESELLSCHAFT, Brunswick, Germany. Filed Dec. 20, 1922.

Heliar

Particular description of goods.—Single and Double Telescopes and Binoculars, Photographic Lenses and Cameras.
Claims use since June 24, 1902.

Ser. No. 173,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EVERLASTING YEAST COMPANY, Weiser, Idaho. Filed Dec. 21, 1922.



No claim made for the word "Yeast" apart from the mark shown by the drawing.
Particular description of goods.—Yeast Cakes.
Claims use since Nov. 20, 1922.

Ser. No. 173,676. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Dec. 21, 1922.

SALTONA

Trade-mark consists of the word "Saltona."
Particular description of goods.—Women's, Children's and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Sept. 16, 1922.

Ser. No. 173,690. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 22, 1922.

BRC

Particular description of goods.—Solid Bituminous Material for Compounding Rubber.
Claims use since about 1917.

Ser. No. 173,691. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 22, 1922.

BRH

Particular description of goods.—Liquid Bituminous Material for Compounding Rubber.
Claims use since about 1917.

Ser. No. 173,692. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 22, 1922.

BRV

Particular description of goods.—Liquid Bituminous Material for Compounding Rubber.
Claims use since about 1917.

Ser. No. 173,793. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED DRUG COMPANY, doing business as Langlois, Boston, Mass. Filed Dec. 23, 1922.

Langlois

Trade-mark consists of the word "Langlois" written in the facsimile signature of Frank N. Langlois, an employee of the United Drug Company, who has given his consent to this company to use his name as a trade-mark as it appears from the original consent filed herewith.
Particular description of goods.—Perfumes, Toilet Waters, Complexion Powders, Talcum Powders, and Sachets.
Claims use since Apr. 23, 1918.

Ser. No. 173,843. (CLASS 39. CLOTHING.) MAY HOSIERY MILLS, doing business as Anti-Darn Hosiery Mills, Nashville, Tenn. Filed Dec. 26, 1922.

ANTI-DARN

Trade-mark "Anti-Darn."
Particular description of goods.—Hosiery.
Claims use since about Nov. 28, 1922.

Ser. No. 173,874. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, a Corporation of New York. Filed Dec. 27, 1922.

Le Yazgé Noir

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Dec. 1, 1912.

Ser. No. 173,877. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, a Corporation of New York. Filed Dec. 27, 1922.

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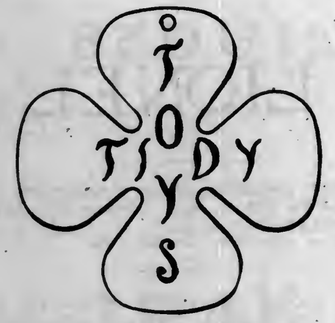
Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since June 1, 1912.

Ser. No. 173,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, a Corporation of New York. Filed Dec. 27, 1922.

N'aimez que moi

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Oct. 1, 1916.

Ser. No. 173,907. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JULIA WHITTEMORE TORREY, New York, N. Y. Filed Dec. 27, 1922.



Particular description of goods.—Toy Dolls and Toy Animals.
Claims use since on or about Dec. 15, 1922.

Ser. No. 173,973. (CLASS 39. CLOTHING.) MILO SILK HOSIERY MILLS, Newark, N. J. Filed Dec. 29, 1922.

Milo

Particular description of goods.—Hosiery.
Claims use since Nov. 1, 1922.

Ser. No. 174,025. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OLD MASTER COLOR CO., Provincetown, Mass. Filed Dec. 30, 1922.



No claim is made to the word "Colors" apart from the mark as used.
Particular description of goods.—Tubed Artist Oil Paints, Water Colors, Tempera, Mediums for Artist Oil Colors and Varnishes.
Claims use since Sept. 1, 1922.

Ser. No. 174,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIONEL TRADING CO. INC., New York, N. Y. Filed Jan. 2, 1923.

LIONEL

Particular description of goods.—Perfumes, Toilet Waters, Face Lotions, Face Creams, Face Powders, Rouges, and Lip Stick.
Claims use since about August, 1922.

Ser. No. 174,093. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. MILLIKEN & COMPANY, doing business as Regent Laboratories, St. Louis, Mo. Filed Jan. 2, 1923.

REGENT

Trade-mark, "Regent."
Particular description of goods.—Medicinal Oil Used as a Laxative, Analgesic Balm, Castor Oil, Cough Sirup; Salves and Ointments for Pimples, Ringworm, Tetter, Eruptions, Blackheads, Irritation, Nettle Rash, Itch, Burns, Boils, Carbuncles, Poison Ivy, Felons, Eczema, and Kindred Skin Diseases, Liniment, Blood Purifier, Cough Medicine, Catarrh Balm, Chill and Fever Medicine, Compound Sirup of Hypophosphites, Kidney Medicine, Eczema Lotion, Preparation for Treatment of Sore Throat, Cod Liver Oil and Hypophos Emulsion, Larkspur Lotion, Liver Pills, Kidney Pills, Headache Tablets, Pile Suppositories, Sarsaparilla Compound, Sirup of Figs, Antiphlogistic Paste, Aspirin Tablets, Bronchial Lozenges, Corn Liquid, Corn Salve, Cough Drops, Hydrogen Peroxide, Kidney Medicine, Preparation for the Treatment of Rheumatism, Sodium Phosphate, White Pine Cough Sirup, Cold Cream, Vanishing Cream, Shaving Lotion, Preparation for Abrasions of the Skin, Fragrant Cream for Toilet Uses, Rouge, Face Powder (Powdered and Compact), Talcum Powder, Almond Cream, Lip Stick, Hair Tonic, Shampoo and Tooth Paste.
Claims use since Aug. 29, 1922.

Ser. No. 174,195. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM FRANCIS CLEGG, doing business as W. F. Clegg Cigar Company, Greensboro, N. C. Filed Jan. 5, 1923.

NON-SKID

Particular description of goods.—Cigars.
Claims use since May, 1918.

Ser. No. 174,224. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WELLSON SPECIALTY COMPANY, Hyattsville, Md. Filed Jan. 5, 1923.

BLUE WING PREPARATIONS
TRADE MARK

No claim is made to the exclusive use of the words "Preparations" and "Trade Mark."
Particular description of goods.—Chemical Preparations for the Treatment of Face, Scalp, and Hair Troubles.
Claims use since Oct. 1, 1922.

Ser. No. 174,234. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEO. W. CONNER, Boston, Mass. Filed Jan. 6, 1923.

GWC

Particular description of goods.—Metal-Fixture Canopies.
Claims use since July 1, 1922.

Ser. No. 174,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed Jan. 8, 1923.

HEALTH BLUSH

Particular description of goods.—Rouge.
Claims use since Dec. 27, 1922.

Ser. No. 174,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed Jan. 8, 1923.

FIFI

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since Dec. 18, 1922.

Ser. No. 174,311. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KNITTED TEXTILES CORPORATION, New York, N. Y., and Allentown, Pa. Filed Jan. 8, 1923.

TEXCOKNIT

Particular description of goods.—Knitted Fabrics in the Piece and Woven Silk and Cotton Piece Goods.
Claims use since March, 1917.

Ser. No. 174,369. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ISADORE SCHIFFMAN, New York, N. Y. Filed Jan. 9, 1923.

ZADORA

Particular description of goods.—Articles of Jewelry of Precious Metal, Not Including Watches—viz, Finger Rings.
Claims use since Dec. 1, 1922.

Ser. No. 174,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIHEI HAMAGUCHI, Unakami Gun, Chiba Ken, Japan. Filed Jan. 11, 1923.

The Chinese character in the upper right corner of the mark means "up." The Japanese character in the lower center is a syllable that has no meaning.
Particular description of goods.—Tamari (Fluid Dripped from a Mixture of Boiled Bean on Which is Grown Asperagilus Oryzea, with Salt), Vinegar, Extract of Soy (Soy Concentrated to Pasty Consistency), Extract of Tamari (Tamari Concentrated to Pasty Consistency), Sauces, and Soy.
Claims use since Jan. 24, 1916.

Ser. No. 174,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TH. GIOCALAS & V. COYIMZOGLU, New York, N. Y. Filed Jan. 11, 1923.

BEDUIN

Particular description of goods.—Dates.
Claims use since Jan. 2, 1922.

Ser. No. 174,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TH. GIOCALAS & V. COYIMZOGLU, New York, N. Y. Filed Jan. 11, 1923.

IRAK

Particular description of goods.—Dates.
Claims use since Jan. 2, 1922.

Ser. No. 174,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TH. GIOCALAS & V. COYIMZOGLU, New York, N. Y. Filed Jan. 11, 1923.

ROYAL PALM

Particular description of goods.—Dates.
Claims use since Jan. 2, 1922.

Ser. No. 174,439. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TH. GIOCALAS & V. COYIMZOGLU, New York, N. Y. Filed Jan. 11, 1923.

SPHINX

Particular description of goods.—Dates.
Claims use since Jan. 2, 1922.

Ser. No. 174,450. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HUNT-RANKIN LEATHER CO., Boston, Mass. Filed Jan. 11, 1923.

HR Velvetta

Particular description of goods.—Leathers.
Claims use since July 1, 1907.

Ser. No. 174,482. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. L. PATCH COMPANY, Stoneham, Mass. Filed Jan. 11, 1923.

NEPTO

Trade-mark consists of the word "Nepto."
Particular description of goods.—Skin Lotion.
Claims use since Dec. 30, 1922.

Ser. No. 174,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa. Filed Jan. 11, 1923.

Sunburst Package

No claim made to the word "Package" apart from the mark as shown.
Particular description of goods.—Candies.
Claims use since June 8, 1922.

Ser. No. 174,542. (CLASS 20. MEASURING AND SCIENTIFIC APPLIANCES.) THEODOR WALDEMAR TALLQVIST, Helsingfors, Finland. Filed Jan. 12, 1923.



The numbers "50" and "60" and the word "Scale" are disclaimed.
Particular description of goods.—Hæmoglobin Scales.
Claims use since Oct. 17, 1922.

Ser. No. 174,543. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRAVIS, ROMAINE & JELLÉ, INC., New York, N. Y. Filed Jan. 12, 1923.

Koo-Koo Krepe

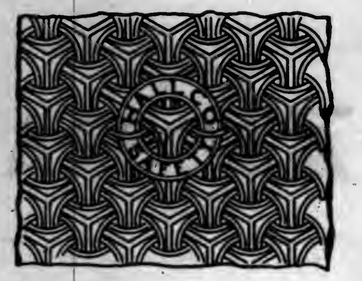
"Krepe" is disclaimed apart from the rest of the mark.
Particular description of goods.—Silk, Artificial Silk, Wool Piece Goods and Combinations Thereof.
Claims use since Jan. 2, 1923.

Ser. No. 174,606. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAXWELL E. BALL, doing business as The Goitrex Company, Portland, Oreg. Filed Jan. 15, 1923.

Goitrex "For Beauty's Sake"

The words and quotation marks shown on drawing and printed labels submitted herein and being as follows, to wit: "For Beauty's Sake," are hereby disclaimed and are expressly excluded from the original petition and statement and renounced in this, the amended statement.
Particular description of goods.—Proprietary Medicine, Being a Compound Mixture of Drugs, Chemicals, and Ointment for Use in the Treatment and Alleviation of Goiter Swellings, and Abnormal Conditions Attendant Upon Enlargement of the Anterior Portion of the Human Neck.
Claims use since Sept. 27, 1922.

Ser. No. 174,616. (CLASS 37. PAPER AND STATIONERY.) THE J. C. HALL COMPANY, Providence, R. I. Filed Jan. 15, 1923.



No claim is made for the word "Safety" apart from the mark shown.
Particular description of goods.—Paper Used for Printing Bonds, Checks, Drafts, and Similar Commercial Use.
Claims use since July 1, 1922.

Ser. No. 174,644. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PAUL TUMP, Milwaukee, Wis. Filed Jan. 15, 1923.

Pulsite
TRADE MARK

The words "Trade-Mark" appearing on the drawing form no part of applicant's mark.
Particular description of goods.—Cleaning Powder.
Claims use since May 1, 1922.

Ser. No. 174,692. (CLASS 45. BEVERAGES, NONALCOHOLIC.) I. L. FLORY, doing business as Elkton Lithia Bottling Company, Elkton, Va. Filed Jan. 17, 1923.

ELK-CLUB

Particular description of goods.—Ginger Ale.
Claims use since January, 1916.

Ser. No. 174,741. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 18, 1923.

IDEAL A-WARD

Particular description of goods.—Chocolate Coating.
Claims use since Dec. 1, 1922.

Ser. No. 174,781. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 19, 1923.

IDEAL VAN DYK

Particular description of goods.—Chocolate Coating.
Claims use since Dec. 1, 1922.

Ser. No. 174,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 19, 1923.

IDEAL VAN ZANT

Particular description of goods.—Chocolate Coating.
Claims use since Dec. 1, 1922.

Ser. No. 174,783. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 19, 1923.

"CREAM-O-MILK"

Particular description of goods.—Chocolate.
Claims use since Mar. 31, 1922.

Ser. No. 174,797. (CLASS 45. BEVERAGES, NONALCOHOLIC.) OKLA-COLA COMPANY, Oklahoma, Okla. Filed Jan. 19, 1923.

OKLA-COLA CO. Okla-Cola OKLAHOMA CITY, OKLA.

The words "Cola," "Oklahoma City," and "Okla" are disclaimed apart from the mark.
Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since July 1, 1921.

Ser. No. 174,828. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ENTERPRISE PAINT MFG. CO., Chicago, Ill. Filed Jan. 20, 1923.

NOXALL

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Varnishes, Varnish Removers, and Enamel Paints.
Claims use since 1893.

Ser. No. 174,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY, Wilmington, Del., and Baltimore, Md. Filed Jan. 22, 1923.

COCOROON

Particular description of goods.—Candy.
Claims use since Jan. 18, 1923.

Ser. No. 174,977. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROCK LICK SMOKELESS COAL COMPANY, Beckley, W. Va. Filed Jan. 23, 1923.

ROCK LICK SMOKELESS COAL

The term "Smokeless Coal" is disclaimed apart from the mark as used.
Particular description of goods.—Coal.
Claims use since June 25, 1922.

Ser. No. 175,051. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. BOCHMANN & Co. INC., Philadelphia, Pa. Filed Jan. 25, 1923.

BOCHENILLE

Particular description of goods.—Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since Aug. 1, 1922.

Ser. No. 175,052. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. BOCHMANN & Co. INC., Philadelphia, Pa. Filed Jan. 25, 1923.

FLAMINGO

Particular description of goods.—Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since Jan. 1, 1922.

Ser. No. 175,168. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH, KLINE & FRENCH CO., Philadelphia, Pa. Filed Jan. 26, 1923.

ACETO-SAL

Particular description of goods.—Acetylsalicylic Acid.
Claims use since Sept. 8, 1922.

Ser. No. 175,203. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRANCIS H. MILLER, doing business as Hagerstown Table Works, Hagerstown, Md. Filed Jan. 27, 1923.

CRAFT BUILT FURNITURE
THE SEAL OF DEPENDABILITY
HAGERSTOWN TABLE WORKS
HAGERSTOWN, MD.

No claim is made to the words "Furniture, The Seal of Dependability, Hagerstown, Maryland" and the representation of a seal shown on the drawing apart from the other features of the mark shown on the drawing.
Particular description of goods.—Household and Office Furniture—Namely, Desks, Tables, China Closets, Buffets, Mirrors, Gate-Leg and Console Tables.
Claims use since Jan. 1, 1923.

Ser. No. 175,299. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA ALFALFA PRODUCTS COMPANY, Pasadena, Calif. Filed Jan. 30, 1923.

"Alvita"

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink and Sirups and Extracts for Making the Same.
Claims use since Mar. 1, 1921.

Ser. No. 175,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio. Filed Jan. 30, 1923.

LA BARA

Particular description of goods.—Perfume, Toilet Water, Talcum Powder, Cold Cream, Vanishing Cream, Face Powder, and Sachet Powder.
Claims use since Sept. 1, 1917.

Ser. No. 175,347. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Jan. 31, 1923.

BAUER
ESTABLISHED 1883

Particular description of goods.—Antiseptic Dressings and Plain Absorbent and Medicated Cotton and Plain and Medicated Gauzes, Cottons, and Bandages.
Claims use since 1886.

Ser. No. 175,364. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES P. MCBRIDE, Brooklyn, N. Y. Filed Jan. 31, 1923.

"HOT-PICK"

Particular description of goods.—Tools for Kitchen Use in the Handling of Hot Articles Such as Pans and Covers Therefor, Pot Covers, Toasted Bread, Etc.
Claims use since Jan. 1, 1923.

Ser. No. 175,380. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BIRTMAN ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 1, 1923.

MAGNETIC HOUSECLEANER

The word "Housecleaner" is disclaimed except as used in connection with the other features of the mark.
Particular description of goods.—Electric Vacuum Cleaner.
Claims use since Jan. 19, 1922.

Ser. No. 175,390. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DAVID RHYS GRIFFITHS, doing business as Donaldson & Co., Glasgow, Scotland. Filed Feb. 1, 1923.

RANGE FINDER BRAND DONALDSON & CO. GLASGOW

No claim is made herein to the words "Brand" and "Glasgow" apart from the mark shown.
Particular description of goods.—Golf Clubs, Golf Balls, Golf Bags, Golf Irons, and Golf Tees.
Claims use since Jan. 1, 1922.

Ser. No. 175,415. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM H. THURMAN, Van Buren, Ark. Filed Feb. 1, 1923.

THURMAN WHT MINERAL WATER

No claim made for the words "Mineral Water" and the pictorial representation of the bottle and crate apart from the mark as shown by the drawing.
Particular description of goods.—Mineral Water.
Claims use since July 1, 1921.

Ser. No. 175,437. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE C. D. POTTER CO., Stamford, Conn. Filed Feb. 2, 1923.

POSACO RADIO

No claim made to the exclusive use of the word "Radio" apart from the mark as shown on the drawing.
Particular description of goods.—Radio Equipment, and More Particularly for Condensers.
Claims use since July 6, 1922.

Ser. No. 175,449. (CLASS 39. CLOTHING.) MAURICE WYMAN, Baltimore, Md. Filed Feb. 2, 1923.

Tru-Arch

Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, or Any Combinations of the Same.
Claims use since Jan. 1, 1923.

Ser. No. 175,479. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FERGUSON MANUFACTURING COMPANY, Suffolk, Va. Filed Feb. 3, 1923.

CANNON

Particular description of goods.—Sprayers for Spraying Vegetation.
Claims use since Nov. 8, 1922.

Ser. No. 175,494. (CLASS 17. TOBACCO PRODUCTS.) ISIDORE YERESHEFSKY, doing business as I. & Y. Cigar Company, New York, N. Y. Filed Feb. 3, 1923.

I & Y

Particular description of goods.—Cigars.
Claims use since Dec. 14, 1922.

Ser. No. 175,549. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) G. H. FISHER & Co., Glendale, N. Y. Filed Feb. 5, 1923.

FISCHER

Applicant does not claim for this registration any right to the exclusive use of the word "Radio" except in the precise relation and association in which it appears in the mark as shown in the drawing.
Particular description of goods.—Variometers and Variocouplers.
Claims use since Jan. 14, 1922.

Ser. No. 175,566. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KENNETH JOHN CABLE MCLENNAN, doing business as Laird & Son, Edinburgh, Scotland. Filed Feb. 5, 1923.

RHEUMOGEN

Particular description of goods.—Preparation for External Use in the Treatment of Rheumatism, Lumbago, Sciatica, Neuritis, Sprains, Muscular Strains, Bronchitis, Catarrh, Chest Colds, and Croup.
Claims use since May 24, 1922.

Ser. No. 175,586. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WHITNEY METAL TOOL COMPANY, Rockford, Ill. Filed Feb. 5, 1923.

W

Particular description of goods.—Metal-Punching Tools and Dies.
Claims use since Sept. 15, 1920.

Ser. No. 175,593. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS H. ASKINN, doing business as Trichitone Laboratories, New York, N. Y. Filed Feb. 6, 1923.

TRICHITONE

Particular description of goods.—Hair Tonic.
Claims use since Jan. 1, 1923.

Ser. No. 175,616. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEVER-STRETCH MATTRESS COMPANY, Philadelphia, Pa. Filed Feb. 6, 1923.

From Dark to Day

Particular description of goods.—Mattresses.
Claims use since Jan. 1, 1923.

Ser. No. 175,642. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL BLANC, doing business as Blanc Manufacturing Co., Philadelphia, Pa. Filed Feb. 7, 1923.

MENTHOCHLOR

Particular description of goods.—Antiseptic, Astringent, and Deodorant Mouth Wash.
Claims use since Jan. 4, 1923.

Ser. No. 175,667. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, New York, N. Y. Filed Feb. 7, 1923.



Particular description of goods.—Compacts for Face Powder.
Claims use since on or about Mar. 1, 1921.

Ser. No. 175,693. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed Feb. 7, 1923.

WINCHESTER SCOUT

Particular description of goods.—Pocketknives.
Claims use since Jan. 15, 1923.

Ser. No. 175,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOLANCE CHEMICAL COMPANY, New Brookland, S. C. Filed Feb. 8, 1923.

NoLance

Particular description of goods.—Salves and Ointments Used as a Remedy for the Treatment of Boils, Carbuncles, Bone Felons, Cuts, and Abrasions.
Claims use since Aug. 1, 1922.

Ser. No. 175,731. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Feb. 8, 1923.

Bird of Paradise

Particular description of goods.—Silver-Plated Flatware, Silver-Plated Tableware, and Silver-Plated Cutlery.
Claims use since Jan. 8, 1923.

Ser. No. 175,736. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PYRENE MANUFACTURING CO., Newark, N. J. Filed Feb. 8, 1923.

Guardene

Particular description of goods.—Temperature-Indicating Device for Gas Engines.
Claims use since Dec. 15, 1922.

Ser. No. 175,739. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RUSONITE PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 8, 1923.

RUSONITE

Particular description of goods.—Radio Rectifiers and Radio Cat Whiskers.
Claims use since Apr. 1, 1922.

Ser. No. 175,741. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SAYRE-LEVEL RADIO COMPANY, Philadelphia, Pa. Filed Feb. 8, 1923.

PHILRAD

Particular description of goods.—Radio Apparatus—Namely, Receiving Sets Assembled and Unassembled and Parts Thereof.
Claims use since on or about June 1, 1922.

Ser. No. 175,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) X-TOL PRODUCTS COMPANY, Dayton, Ohio. Filed Feb. 8, 1923.

X-TOL

Particular description of goods.—Lotion for the Scalp, Face, and Hands.
Claims use since Feb. 1, 1923.

Ser. No. 175,768. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAPHENIN CHEMICAL COMPANY, Waverly, Iowa. Filed Feb. 9 1923.

DEE-LITE-FU-LAX

Particular description of goods.—Laxative Wafer.
Claims use since Mar. 24, 1922.

Ser. No. 175,790. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY & ALLEN, Auburn, N. Y. Filed Feb. 9, 1923.

HA

Particular description of goods.—Repair Parts for Agricultural Machinery and Implements.
Claims use since January, 1922.

Ser. No. 175,818. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SPEAR & SUSSKIND, Providence, R. I. Filed Feb. 9, 1923.

S&S

Particular description of goods.—Vest Chains, Lapel or Coat Chains, Key Chains, Bracelet Chains, Watch Chains, Guard or Lorgnette Chains, Neck Chains, Brooch Safety Chains, Eyeglass Chains, Pendants, Cuff Links, Scarf Pins, Cuff Pins, and Finger Rings, Which are Made of or Plated with Precious Metals.
Claims use since Sept. 1, 1922.

Ser. No. 175,820. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STAUFFER CHEMICAL COMPANY, San Francisco, Calif. Filed Feb. 9, 1923.

STAUFFERS AMPLIFIED

Particular description of goods.—Chemical Fungicide.
Claims use since Oct. 31, 1922.

Ser. No. 175,865. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHARLES HARDY, doing business as Advanced Metal Stamping Company, New York, N. Y. Filed Feb. 10, 1923.

AMSCO PRODUCTS

No claim is made to the use of the word "Products" aside from the mark shown in the drawings.

Particular description of goods.—Radio Apparatus—Namely, Rheostats, Potentiometers, Variable Condensers, Vernier Variable Condensers, Variable Grid Leaks, Inductance Switches, and Dials.

Claims use since Apr. 25, 1922.

Ser. No. 175,901. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERIC LEHNHOFF-WYLD, Paris, France. Filed Feb. 10, 1923.

BISIODOL

Particular description of goods.—An Oxyiodide of Bismuth in Camphorated Solution.

Claims use since Nov. 10, 1922.

Ser. No. 175,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERIC LEHNHOFF-WYLD, Paris, France. Filed Feb. 10, 1923.

BISCLOROL

Particular description of goods.—An Oxychloride of Bismuth in Camphorated Solution.

Claims use since Nov. 10, 1922.

Ser. No. 175,904. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) YARD-O-METER CORPORATION, St. Louis, Mo. Filed Feb. 10, 1923.

Yard-O-Meter
MEASURES AND COMPUTES

No claim is made to the words "Measures and Computes" apart from the trade-mark shown.

Particular description of goods.—Devices for Computing and Measuring Fabrics.

Claims use since early part of April, 1922.

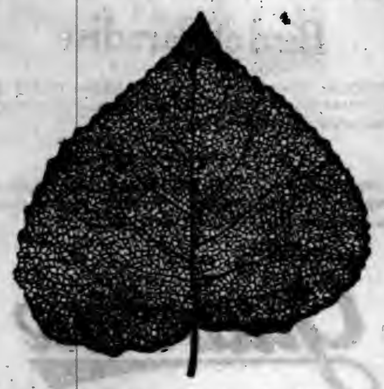
Ser. No. 175,918. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONDÉ, PERFUMER, New York, N. Y. Filed Feb. 12, 1923.

FLEURS CAPTIVES

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.

Claims use since Jan. 22, 1923.

Ser. No. 175,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., New York, N. Y. Filed Feb. 12, 1923.



Particular description of goods.—Perfumes.

Claims use since the year 1909.

Ser. No. 175,936. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUNGARDIA COMPANY, Dallas, Tex. Filed Feb. 12, 1923.

Lungardia

Particular description of goods.—Laxatives.

Claims use since Jan. 27, 1923.

Ser. No. 175,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERCY E. PAGE, New York, N. Y. Filed Feb. 12, 1923.

FLORAL BLOOM

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.

Claims use since Feb. 6, 1923.

Ser. No. 175,948. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RUSSELL PLAYING CARD CO., Milltown, N. J. Filed Feb. 12, 1923.

Broadway

Particular description of goods.—Playing Cards.

Claims use since 1904.

Ser. No. 175,950. (CLASS 32. FURNITURE AND UPHOLSTERY.) SCHULTZ & HIRSCH CO., Chicago, Ill. Filed Feb. 12, 1923.

FOUNDED 1880 SCHULTZ & HIRSCH CO. Good Night CHICAGO

No claim is made to the words "Founded 1880 Schultz & Hirsch Co., Chicago" apart from the mark shown in the drawing.

Particular description of goods.—Box Springs, Mattresses, and Pillows.

Claims use since Mar. 1, 1920.

Ser. No. 175,957. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS SAW AND STEEL COMPANY, Fitchburg, Mass. Filed Feb. 12, 1923.

ALGONQUIN



Particular description of goods.—Saws.

Claims use since June, 1900.

Ser. No. 175,958. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS SAW AND STEEL COMPANY, Fitchburg, Mass. Filed Feb. 12, 1923.



THE SIOUX

Particular description of goods.—Saws.

Claims use since June, 1900.

Ser. No. 175,975. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SAMUEL WINSLOW SKATE MFG. CO., Worcester, Mass. Filed Feb. 12, 1923.

REZISTEEL

Particular description of goods.—Ice Skates.

Claims use since Oct. 26, 1921.

Ser. No. 175,977. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMORE DRUG & CHEMICAL COMPANY, New York, N. Y. Filed Feb. 13, 1923.



Particular description of goods.—External Remedies for Skin Diseases, More Particularly Eczema, Pimples, Blackheads, and Itch.

Claims use since July 1, 1922.

Ser. No. 176,000. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS SAW AND STEEL COMPANY, Fitchburg, Mass. Filed Feb. 18, 1923.



PONTIAC

Particular description of goods.—Saws.

Claims use since March, 1900.

Ser. No. 176,012. (CLASS 12. CONSTRUCTION MATERIALS.) BOLCOM CANAL LUMBER CO., Seattle, Wash. Filed Feb. 14, 1923.

SPEED GETS EM

Particular description of goods.—Laths and Lumber.
Claims use since June, 1920.

Ser. No. 176,226. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ST. LOUIS BRASS MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 17, 1923.

MAZE-LITE

Particular description of goods.—Electrical-Lighting Fixtures.
Claims use since Mar. 1, 1922.

Ser. No. 176,359. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PALMER-BEE COMPANY, Detroit, Mich. Filed Feb. 20, 1923.

MILL PB TYPE

No claim is made to the exclusive appropriation of the words "Mill Type" apart from the mark shown on the drawing.
Particular description of goods.—Speed Reducers, Shaft Couplings, Friction Clutches, Hoists, Jacks, and Cranes.
Claims use since Jan. 8, 1923.

Ser. No. 176,400. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CONNECTICUT TELEPHONE & ELECTRIC COMPANY, INCORPORATED, Meriden, Conn. Filed Feb. 21, 1923.

SODION

The trade-mark consists of the arbitrary word "Sodion."
Particular description of goods.—Electron Tubes, Sockets for Electron Tubes, Rheostats, Amplifiers, and Radio Receiving Sets.
Claims use since about Feb. 14, 1923.

Ser. No. 176,407. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARCUS A. HEYMAN, New York, N. Y. Filed Feb. 21, 1923.

MAIKO

The word "Maiko" means "Dancing Girl;" trade mark "Maiko."
Particular description of goods.—Piece Goods Made of Silk.
Claims use since on or about Dec. 1, 1922.

Ser. No. 176,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MURRAY COMPANY, Dallas, Tex. Filed Feb. 21, 1923

SUPER CLEANER

No claim is made to the exclusive right to use the word "Cleaner" apart from the mark shown.
Particular description of goods.—Cotton Gins and Cotton-Gin Machinery.
Claims use since Jan. 1, 1923.

Ser. No. 176,436. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIAM C. ADAMS CO., Boston, Mass. Filed Feb. 23, 1923.

Smada

Particular description of goods.—Arc and Electric Welding Goggles.
Claims use since Sept. 15, 1922.

Ser. No. 176,449. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE C. E. Z. COMPANY, Chicago, Ill. Filed Feb. 23, 1923.

C.E.Z.

Particular description of goods.—House Numbers, Changeable Window Display Signs, and Sign Reflectors.
Claims use since Jan. 18, 1923.

Ser. No. 176,503. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROTHSCHILD & COMPANY, Chicago, Ill. Filed Feb. 23, 1923.



Particular description of goods.—Pearl Necklaces.
Claims use since July 1, 1922.

Ser. No. 176,635. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARINETTE ELECTRIC CORPORATION, Marinette, Wis. Filed Feb. 26, 1923.

BLUE STREAK

Particular description of goods.—Phones for Use with Radio Apparatus.
Claims use since May 1, 1922.

Ser. No. 176,676. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS A. HAZELTINE, Hoboken, N. J. Filed Feb. 27, 1923.

NEUTRODYNE

Particular description of goods.—Radio Receiving Sets.
Claims use since Feb. 23, 1923.

Ser. No. 176,686. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE MOUQUIN RESTAURANT AND WINE COMPANY, LIMITED, New York, N. Y. Filed Feb. 27, 1923.



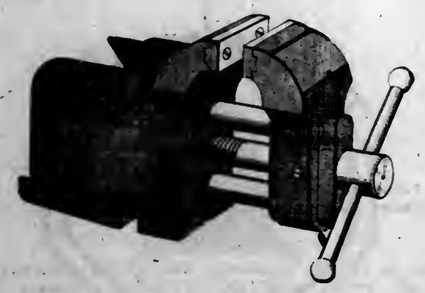
The lines on the drawing are for shading only.
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Dec. 1, 1920.

Ser. No. 176,700. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WESTCHESTER BOTTLING WORKS, New Rochelle, N. Y. Filed Feb. 27, 1923.

La Rochelle
FRU-T-MOR

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Feb. 15, 1921.

Ser. No. 176,737. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Feb. 28, 1923.



Trade-mark shown in the accompanying drawing consisting of coloring the upper portion of the fixed and movable jaws a high-gloss vermilion red and by coloring the remaining portion of the jaws black, no claim being made to the representation of the tool apart from the trade-mark shown.
Particular description of goods.—Bench Vises.
Claims use since September, 1907.

Ser. No. 176,751. (CLASS 39. CLOTHING.) ABRAHAM H. MORGEN, doing business as Wiz Dress Company, New York, N. Y. Filed Feb. 28, 1923.

DRESS

No claim is made to the word "Dress" apart from the mark as shown.
Particular description of goods.—Women's, Misses', and Children's Dresses.
Claims use since Feb. 17, 1923.

Ser. No. 176,753. (CLASS 39. CLOTHING.) ABRAHAM H. MORGEN, doing business as Wiz Dress Company, New York, N. Y. Filed Feb. 28, 1923.

DRESS

No claim is made to the word "Dress" apart from the mark as shown.
Particular description of goods.—Women's, Misses', and Children's Dresses.
Claims use since Feb. 19, 1923.

Ser. No. 176,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. W. CHASE AND SON MERCANTILE CO., St. Joseph, Mo. Filed Mar. 1, 1923.

TWEEN-MEALS

Particular description of goods.—Candy.
Claims use since January, 1921.

Ser. No. 176,813. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT E. ALEXANDER, Tulsa, Okla. Filed Mar. 2, 1923.

MAX

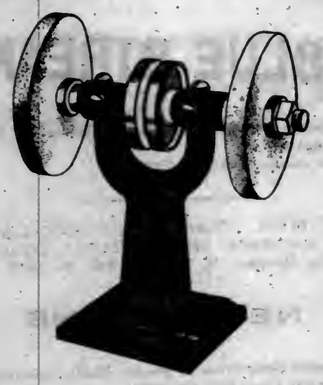
Particular description of goods.—Jack Frames for Pumping Jacks.
Claims use since about February, 1921.

Ser. No. 176,824. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Mar. 2, 1923.



Trade-mark shown in accompanying drawing consists of coloring the lower portion of the casing of the tool a high-gloss vermilion red and by coloring the upper part of the casing of the tool black; no claim made to the representation of the tool apart from the trade-mark shown.
Particular description of goods.—Valve Grinders.
Claims use since August, 1915.

Ser. No. 176,825. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Mar. 2, 1923.



Trade-mark in the accompanying drawing consisting of coloring the face of the driving pulley a high-gloss vermilion red and by coloring the supporting frame black, no claim being made to the representation of the tool apart from the mark shown.
Particular description of goods.—Polishing and Grinding Heads.
Claims use since 1903.

Ser. No. 176,851. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PACIFIC NOVELTY COMPANY, New York, N. Y. Filed Mar. 2, 1923.

Tut-ankh-amen

Particular description of goods.—Combs and Barrettes Made of a Composition Material Known as Viscoloid.
Claims use since Feb. 10, 1923.

Ser. No. 176,902. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Mar. 2, 1923.

BONDCRETE

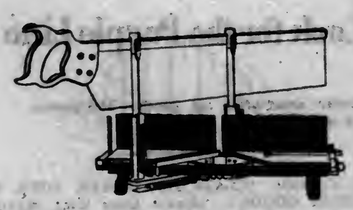
Particular description of goods.—Calcined Gypsum, Stucco, and Wall Plaster.
Claims use since July 10, 1922.

Ser. No. 176,883. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONSOLIDATED TOOL WORKS, INC., New York, N. Y. Filed Mar. 3, 1923.

ALPHA

Particular description of goods.—Hack-Saw Frames and Coping-Saw Frames.
Claims use since Jan. 18, 1923.

Ser. No. 176,893. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Mar. 3, 1923.



Trade-mark shown in the accompanying drawing consisting of coloring the edges of the work-supporting face plates a high-gloss vermilion red and by coloring the miter-box frame black, no claim being made to the representation of the tool apart from the mark shown.
Particular description of goods.—Miter Boxes.
Claims use since June, 1916.

Ser. No. 176,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLAUBER WANGENHEIM CO., San Diego, Calif. Filed Mar. 3, 1923.

LA PALOMA

Particular description of goods.—Coffee.
Claims use since June, 1922.

Ser. No. 176,908. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MURRAY TRADING CO., INC., New York, N. Y. Filed Mar. 3, 1923.



"Pongee" is disclaimed when used apart from the mark shown on the drawing.
Particular description of goods.—Mercerized Cotton Pongee in the Piece.
Claims use since Feb. 25, 1923.

Ser. No. 176,909. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MURRAY TRADING CO., INC., New York, N. Y. Filed Mar. 3, 1923.



The words "Brand" and "Best Selection" are disclaimed when used apart from the mark shown in the drawing.
Particular description of goods.—All-Silk Pongee in the Piece.
Claims use since May 1, 1922.

Ser. No. 176,928. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Mar. 3, 1923.

EVERCHENE

Trade-mark consists of the word "Everchene."
Particular description of goods.—Silks, Cotton, Wool, and Mixtures Thereof in the Piece and Shirtings in the Piece.
Claims use since Feb. 2, 1923.

Ser. No. 176,946. (CLASS 2. RECEPTACLES.) CALIFORNIA BARREL CO., San Francisco, Calif. Filed Mar. 5, 1923.

CBCo

Particular description of goods.—Wooden Containers and Shooks Therefor.
Claims use since July 21, 1922.

Ser. No. 177,006. (CLASS 43. THREAD AND YARN.) C. HARLAND LAWRENCE, Taunton, Mass. Filed Mar. 5, 1923.

WINWOL

Particular description of goods.—Yarn Spun with a Mixture of Cotton and Wool.
Claims use since Jan. 1, 1922.

Ser. No. 177,068. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. F. BOWSER AND COMPANY, INCORPORATED, Fort Wayne, Ind. Filed Mar. 7, 1923.

CLARIFILTER

Particular description of goods.—Dry-Cleaning Systems, Including Therein Storage Clarifiers, Filters, Dry-Cleaning Washers, and Connecting Pipes.
Claims use since Apr. 1, 1922.

Ser. No. 177,082. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Mar. 7, 1923.



Trade-mark shown in the accompanying drawing consisting of coloring the cover portion of the gear casing a high-gloss vermilion red and by coloring the remaining portion of the gear casing black, no claim being made to the representation of the tool apart from the mark shown.
Particular description of goods.—Bench Grinders.
Claims use since June, 1909.

Ser. No. 177,084. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN HOEY & Co., San Francisco, Calif. Filed Mar. 7, 1923.

Look for the Purple Line

Particular description of goods.—Mattresses.
Claims use since July, 1921.

Ser. No. 177,098. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MORRIS GOLF BALL MANUFACTURING COMPANY, Wimbledon, England, Filed Mar. 7, 1923.

ROYLAND

Particular description of goods.—Golf Balls.
Claims use since July 13, 1922.

Ser. No. 177,101. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) T. & H. NICHOLS, Nutley, N. J. Filed Mar. 7, 1923.

BEC-MAR

Particular description of goods.—Spark Plugs.
Claims use since July 15, 1920.

Ser. No. 177,133. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERT LEVI & Co., INC., New York, N. Y. Filed Mar. 8, 1923.

"Cotton in Its Finest Guise"



"BELCO FABRICS"

No claim made to the exclusive use of the phrase "Cotton in Its Finest Guise" and the word "Fabrics" apart from the mark as shown on the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 6, 1922.

Ser. No. 177,157. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WHITE CAP BATTERY MFG. CO., Owensboro, Ky. Filed Mar. 8, 1923.

WHITE CAP

Particular description of goods.—Storage Batteries.
Claims use since Jan. 8, 1923.

Ser. No. 177,177. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FIRST AID SPECIALTY COMPANY, INC., New York, N. Y. Filed Mar. 9, 1923.



No claim is made to the representation of the goods or the words "Compact Emergency Dressings" apart from the mark as shown or any simulation thereof, no common-law rights, however, being waived.
Particular description of goods.—Medical and Surgical Appliances Comprising Emergency or First-Aid Kits and Contents Consisting of Ampullas, Bandages, Compresses, Forceps, Inhalants, Eye Dressings, Cathartic Compounds, Ginger Tablets, Internal Remedies, Spirits of Ammonia, Sutures, and Tourniquets.
Claims use since about Jan. 1, 1923.

Ser. No. 177,206. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALDERMAN, FAIRCHILD CO., Rochester, N. Y. Filed Mar. 10, 1923.

X-PLOR U S

Particular description of goods.—Game Known as "X-Plor U S," a Geographical Educational Table Game Played with Pieces and Marked Cubes or Rotary Counter.
Claims use since Aug. 1, 1922.

Ser. No. 177,207. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALDERMAN, FAIRCHILD CO., Rochester, N. Y. Filed Mar. 10, 1923.

Yatteau



Particular description of goods.—Games Known as "Yatteau," a Table Game Played with Pieces and Marked Cubes or Rotary Counter.
Claims use since June 1, 1922.

Ser. No. 177,256. (CLASS 37. PAPER AND STATIONERY.) WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y. Filed Mar. 10, 1923.

WESTVACO

Particular description of goods.—Book Paper and Wrapping Paper.
Claims use since July 1, 1917.

Ser. No. 177,261. (CLASS 15. OILS AND GREASES.) AMERICAN REFINING AND MANUFACTURING COMPANY, Los Angeles, Calif. Filed Mar. 12, 1923.

JAZZ
OIL - GREASE - GAS

The exclusive right to the use of the words "Oil—Grease—Gas" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Lubricating Oils, Lubricating Grease, and Gasoline.
Claims use since Mar. 5, 1923.

Ser. No. 177,273. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) F. S. CARR COMPANY, Boston, Mass. Filed Mar. 12, 1923.

PERMAFLEX

Particular description of goods.—Waterproof Automobile and Carriage Fabric.
Claims use since Jan. 30, 1923.

Ser. No. 177,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EAST. FRUIT COMPANY OF THE NORTHWEST, Spokane, Wash. Filed Mar. 12, 1923.

GOBBLER



Particular description of goods.—Fresh Apples.
Claims use since Aug. 1, 1922.

Ser. No. 177,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANSAS CITY MACARONI & IMPORTING CO., Kansas City, Mo. Filed Mar. 12, 1923.

SHEL-RONI

Particular description of goods.—Shell-Shaped Macaroni.
Claims use since Oct. 15, 1922.

Ser. No. 177,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARBUCKLE BROTHERS, New York, N. Y. Filed Mar. 13, 1923.

PLAINSMAN

Particular description of goods.—Coffee.
Claims use since Jan. 20, 1923.

Ser. No. 177,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURNHAM & MORRILL COMPANY, Portland, Me. Filed Mar. 13, 1923.

Gold Finch



Particular description of goods.—Canned Corn and Canned Succotash.
Claims use since 1913.

Ser. No. 177,372. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FREDERICK CITY PACKING COMPANY, INC., Frederick, Md. Filed Mar. 13, 1923.

PROCLAMATION

Particular description of goods.—Canned Vegetables.
Claims use since 1898.

Ser. No. 177,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. KICKBUSCH GROCERY COMPANY, Wausau, Wis. Filed Mar. 13, 1923.

SCOTTIE



Particular description of goods.—Canned Fruits, Canned Vegetables, Coffee, Tea, and Prepared Mustard.
Claims use since November, 1922.

Ser. No. 177,391. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LEHMAN BROS., New York, N. Y. Filed Mar. 13, 1923.



Particular description of goods.—Nickel Silver-Plated Articles.
Claims use since Nov. 15, 1922.

Ser. No. 177,409. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM G. ROE, Winterhaven, Fla. Filed Mar. 13, 1923.

TRUBLU

Particular description of goods.—Fresh Citrous and Deciduous Fruits.
Claims use since Dec. 29, 1922.

Ser. No. 177,411. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDREA RUSSO, Chicago, Ill. Filed Mar. 13, 1923.

SCHOONER



Particular description of goods.—Olive Oil and Canned Anchovies.
Claims use since Dec. 25, 1922.

Ser. No. 177,503. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAS. R. MCMULLEN, New York, N. Y. Filed Mar. 15, 1923.

WINGED FOOT



Particular description of goods.—Golf Balls and Clubs.
Claims use since Jan. 2, 1923.

Ser. No. 177,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y. Filed Mar. 15, 1923.

FAIR-O

Particular description of goods.—Silk and Wool Fabrics and Mixtures Thereof in the Piece.
Claims use since Feb. 21, 1923.

Ser. No. 177,514. (CLASS 12. CONSTRUCTION MATERIALS.) POLYGON PRODUCTS CO., Boston, Mass. Filed Mar. 15, 1923.

Plasgon

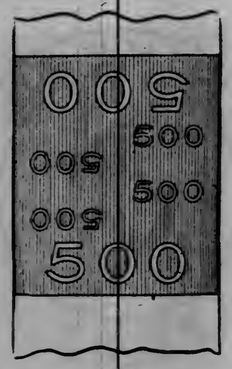
Particular description of goods.—Cement Packing for Joints.
Claims use since Feb. 17, 1923.

Ser. No. 177,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE PULLIAM, Detroit, Mich. Filed Mar. 16, 1923.

PATTIES

Particular description of goods.—Frozen Ice-Cream Dainties.
Claims use since Feb. 25, 1922.

Ser. No. 177,575. (CLASS 37. PAPER AND STATIONERY.) SPURGIN MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 16, 1923.



No claim is made to the value designating numeral "500" apart from the rectangular red field on which the same appears. Trade-mark consists essentially of a rectangular red field on the exposed side of the currency strap with the number "500" appearing on said field in a contrasting color.

Particular description of goods.—Currency Straps of $500 denominations.

Claims use since about July 1, 1901.

Ser. No. 177,649. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LENORE BOATRIGHT, San Francisco, Calif. Filed Mar. 19, 1923.

GOO-GOO

Particular description of goods.—Dolls.

Claims use since Sept. 1, 1922.

Ser. No. 177,682. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MARVEL PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 19, 1923.

MARVEL

Particular description of goods.—Gasoline and Liquid Gauges.

Claims use since Jan. 20, 1921.

Ser. No. 177,707. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Mar. 19, 1923.

Chicago Sunday Tribune.

Particular description of goods.—Newspaper and Newspaper Supplements Published Weekly.

Claims use since July 2, 1890.

Ser. No. 177,804. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Mar. 21, 1923.

GYP-LAP

Particular description of goods.—Plaster Board and Plaster Wall Board.

Claims use since Feb. 17, 1922.

Ser. No. 177,851. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THOMAS LAWTON, New York, N. Y. Filed Mar. 22, 1923.



Particular description of goods.—Devices for Massaging or Exercising the Human Body.

Claims use since August, 1919.

Ser. No. 177,902. (CLASS 15. OILS AND GREASES.) EVANSVILLE OIL & GREASE COMPANY, Evansville, Ind. Filed Mar. 23, 1923.



The right to the exclusive use of the words "Gas, Motor Oil" and the representation of a can of motor oil is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Fuel Oils and Lubricating Oils and Greases.

Claims use since Feb. 1, 1923.

Ser. No. 177,922. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NEWTON, CHAMBERS & Co. LIMITED, near Sheffield, England. Filed Mar. 23, 1923.

ZAL

Particular description of goods.—Apparatus for Generating and Diffusing Vaporized Germicides or Disinfectants.

Claims use since Apr. 25, 1922.

Ser. No. 177,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEUTRASOL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 24, 1923.

NEUTRASOL

Particular description of goods.—Oils for Preparing Silk, Wool, and Other Fabrics for Manufacture.

Claims use since June, 1920.

Ser. No. 177,990. (CLASS 37. PAPER AND STATIONERY.) PERKINS & BUTLER, INC., Worcester, Mass. Filed Mar. 24, 1923. Under ten-year proviso.

WAYSIDE INN

The lines on drawing do not indicate color.

Particular description of goods.—Toilet Paper.

Claims use since 1893.

Ser. No. 178,047. (CLASS 12. CONSTRUCTION MATERIALS.) KENTUCKY ROCK ASPHALT CO., Louisville, Ky. Filed Mar. 26, 1923.

Kyrock

Particular description of goods.—Asphalt.

Claims use since April, 1921.

Ser. No. 178,101. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOHN ADOLPHUS HARTVIG, Oakland, Calif. Filed Mar. 27, 1923.

MARCELLA

Particular description of goods.—Nonelectric Iron Heated Hair-Waving Implements.

Claims use since July, 1922.

Ser. No. 178,107. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE KERITE INSULATED WIRE & CABLE COMPANY, INC., Seymour, Conn., and New York, N. Y. Filed Mar. 27, 1923. Under ten-year proviso.

KERITE

Particular description of goods.—Insulated Wire and Cables.

Claims use since about 1868.

Ser. No. 178,212. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Mar. 29, 1923.



Particular description of goods.—Lead Pencils.

Claims use since about Dec. 11, 1922.

Ser. No. 178,240. (CLASS 17. PAPER AND STATIONERY.) EUREKA SPECIALTY PRINTING COMPANY, INCORPORATED, Scranton, Pa. Filed Mar. 29, 1923.

EUREKA

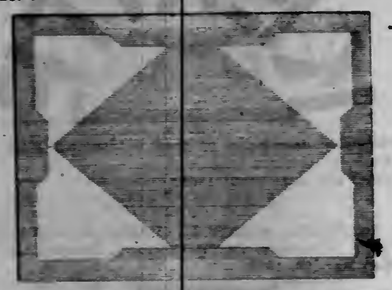
Particular description of goods.—Paper for Trading Stamps, Coupons, Safety Paper, Wrapping, Book Covers, and Checks.
Claims use since about 1912.

Ser. No. 178,281. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO MINERAL COMPANY, Newark, N. J. Filed Mar. 29, 1923.

AMPLICITE

Particular description of goods.—Crystals or minerals for use in Wireless Telegraphy and Wireless Telephony Apparatus.
Claims use since Feb. 15, 1923.

Ser. No. 178,311. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) U. S. HAME COMPANY, Buffalo, N. Y. Filed Mar. 29, 1923.



The horisontal lining on the drawing is not intended to indicate any particular color, but is intended to indicate any color contrasting with the unlined portions in the drawing.
Particular descriptions of goods.—Hame Trimmings and Saddlery Hardware.
Claims use since 1907.

Ser. No. 178,319. (CLASS 5. ADHESIVES.) HENRY WILHELM COMPANY, Pittsburgh, Pa. Filed Mar. 29, 1923.



Particular description of goods.—Sheet Glue.
Claims use since Jan. 9, 1923.

Ser. No. 178,320. (CLASS 5. ADHESIVES.) HENRY WILHELM COMPANY, Pittsburgh, Pa. Filed Mar. 29, 1923.



Particular description of goods.—Sheet Glue.
Claims use since Jan. 23, 1923.

Ser. No. 178,338. (CLASS 12. CONSTRUCTION MATERIALS.) FELLSWAY RUBBER CO., Boston, Mass. Filed Mar. 30, 1923.

FELCO

Particular description of goods.—Rubber Tiling.
Claims use since Mar. 17, 1923.

Ser. No. 178,342. (CLASS 2. RECEPTACLES.) HERCULES CARBOY BOX COMPANY, Newark, N. J. Filed Mar. 30, 1923.



No claim made to the exclusive use of the representation of the box and the carboy and the words "Carboy Box" apart from the mark as shown in the drawing.
Particular description of goods.—Receptacles for Carboys.
Claims use since Mar. 13, 1923.

Ser. No. 178,364. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOUTHERN COMMERCIAL COMPANY, doing business as Parks-Belk Company, Durham, N. C. Filed Mar. 30, 1923.

BELKETTE

Particular description of goods.—Hair Nets.
Claims use since Feb. 1, 1923.

Ser. No. 178,477. (CLASS 2. RECEPTACLES.) SOUTHERN CAN COMPANY, Baltimore, Md. Filed Apr. 2, 1923.

Sococan

Particular description of goods.—Cans Made of Tin for Containing Food Products or Other Commodities.
Claims use since Feb. 27, 1923.

Ser. No. 178,481. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) U. S. HAME COMPANY, Buffalo, N. Y. Filed Apr. 2, 1923.

Advance

Particular description of goods.—Hame Attachments.
Claims use since Jan. 15, 1908.

Ser. No. 178,498. (CLASS 12. CONSTRUCTION MATERIALS.) DELTA EXPORT LUMBER CORPORATION, Memphis, Tenn. Filed Apr. 3, 1923.

DELTA

Particular description of goods.—Lumber and Veneers.
Claims use since June 1, 1922.

Ser. No. 178,627. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JULIUS RICHTER, doing business as Globe Import Co., New York, N. Y. Filed Apr. 5, 1923.

GLICO

Trade-mark consists of the word "Glico."
Particular description of goods.—Manicure Sets, Including Scissors and Cuticles.
Claims use since October, 1921.

Ser. No. 178,652. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOLA CARRIER WORRELL, doing business as The Flapper Novelty Doll Co., New York, N. Y. Filed Apr. 5, 1923.

"Floppy Flo"

Particular description of goods.—Dolls.
Claims use since about December, 1922.

Ser. No. 178,655. (CLASS 5. ADHESIVES.) AMERICAN HOMINY COMPANY, Chicago, Ill. Filed Apr. 6, 1923.

HOMCO

Particular description of goods.—Core Oils.
Claims use since Mar. 22, 1923.

Ser. No. 178,721. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAC GORDON, doing business as Saigo Varnish Works, New York, N. Y. Filed Apr. 7, 1923.

SAIGO

Particular description of goods.—Varnish.
Claims use since Aug. 24, 1922.

Ser. No. 178,869. (CLASS 17. TOBACCO PRODUCTS.) SALVADOR RODRIGUEZ, New York, N. Y. Filed Apr. 9, 1923.



Trade-mark shown in the accompanying drawing is the artist's conception of the historical character known as Charles the Great.
Particular description of goods.—Cigars.
Claims use since about 1890.

Ser. No. 178,879. (CLASS 37. PAPER AND STATIONERY.) STEWART CORPORATION, Chicago, Ill. Filed Apr. 9, 1923.



No claim is made in the present application to the representation of a pad or tablet or to any of the words appearing in the drawing apart from the other features of the mark.

Particular description of goods.—Writing and Drawing Surfaces.

Claims use since Mar. 16, 1923.

Ser. No. 178,920. (CLASS 37. PAPER AND STATIONERY.) THE HAMMERSLEY MANUFACTURING COMPANY, New York, N. Y. Filed Apr. 10, 1923.

GARFIELD



Particular description of goods.—Waxed Paper.

Claims use since Jan. 6, 1903.

Ser. No. 178,923. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JORDAN MARSH COMPANY, Boston, Mass. Filed Apr. 10, 1923.

COMET

Particular description of goods.—Golf Balls.

Claims use since Feb. 1, 1923.

Ser. No. 178,933. (CLASS 43. THREAD AND YARN.) LOUIS FRANK ROSENBERG, doing business as The "Rosilk" Company, Providence, R. I. Filed Apr. 10, 1923.

ROSILK

Particular description of goods.—Silk Thread for Stringing Pearls and Beads.

Claims use since July 1, 1918.

Ser. No. 179,053. (CLASS 7. CORDAGE.) ORCHARD PAPER COMPANY, St. Louis, Mo. Filed Apr. 12, 1923.

MUNNESAVR

Particular description of goods.—Twine.

Claims use since June, 1920.

Ser. No. 179,062. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SEIGENBERG & SHER, Los Angeles, Calif. Filed Apr. 12, 1923.



Particular description of goods.—Dolls.

Claims use since Mar. 30, 1923.

Ser. No. 179,079. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD E. ALLEN MFG. CO., Chicago, Ill. Filed Apr. 13, 1923.

SOBRITE

Particular description of goods.—Enamel for General Use.

Claims use since Feb. 6, 1923.

Ser. No. 179,080. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD E. ALLEN MFG. CO., Chicago, Ill. Filed Apr. 13, 1923.

MOSAIC

Particular description of goods.—Floor Paint.

Claims use since Jan. 31, 1921.

Ser. No. 179,081. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD E. ALLEN MFG. CO., Chicago, Ill. Filed Apr. 13, 1923.

MANORHOUSE

Particular description of goods.—Ready-Mixed House Paint for Both Inside and Outside Use.

Claims use since Jan. 31, 1921.

Ser. No. 179,111. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PUNG-CHOW COMPANY, INC., New York, N. Y. Filed Apr. 13, 1923.

洲平

The trade-mark consists of the Chinese characters meaning "Level Continent."

Particular description of goods.—Game Played with Pieces Somewhat Similar to Dominoes and Parts Thereof.

Claims use since Jan. 26, 1922.

Ser. No. 179,734. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LEYS, CHRISTIE & CO., New York, N. Y. Filed Apr. 26, 1923.

"Orienta Pearls"

No claim is made to the word "Pearls" apart from the mark shown in the drawing and above described.

Particular description of goods.—Artificial Pearls.

Claims use since on or about May 1, 1917.

Ser. No. 179,739. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Apr. 26, 1923.

ARROW

Particular description of goods.—Signal Electric Lamps for Automotive Vehicles.

Claims use since in or about 1910.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 29, 1923.

168,538. CANNED FRUITS AND CANNED VEGETABLES. THE WHOLESALE DISTRIBUTORS CO., Chicago, Ill.
Filed January 3, 1922. Serial No. 157,464. PUBLISHED MAY 23, 1922.

168,539. PIECE GOODS—VIZ, SILK PONGEE. J. A. FINN & Co., New York, N. Y.
Filed January 6, 1922. Serial No. 157,561. PUBLISHED FEBRUARY 27, 1923.

168,540. CHOCOLATE-COATED ICE CREAM. FLYNN DAIRY COMPANY, Des Moines, Iowa.
Filed January 11, 1922. Serial No. 157,763. PUBLISHED MAY 23, 1922.

168,541. COFFEE. NEWMARK BROTHERS, Los Angeles, Calif.
Filed January 19, 1922. Serial No. 158,137. PUBLISHED MARCH 6, 1923.

168,542. ARTICLE OF WEARING APPAREL—TO WIT, WORK SHIRTS. A. M. ROBINSON COMPANY, Atlanta, Ga.
Filed January 19, 1922. Serial No. 158,155. PUBLISHED OCTOBER 17, 1922.

168,543. MOLASSES. BOSTON MOLASSES COMPANY, Boston, Mass.
Filed January 21, 1922. Serial No. 158,212. PUBLISHED FEBRUARY 27, 1923.

168,544. PATCH FOR TIRES. O. K. PATCH COMPANY, Bellville, Tex.
Filed January 28, 1922. Serial No. 158,579. PUBLISHED NOVEMBER 14, 1922.

168,545. MATCHES. THE NIPPON MATCH M'F'G CO., L'D, Kobe, Japan.
Filed January 26, 1922. Serial No. 158,488. PUBLISHED MARCH 6, 1923.

168,546. CANDY. THE LUKIS CANDY COMPANY, Casper, Wyo.
Filed January 31, 1922. Serial No. 158,683. PUBLISHED MARCH 6, 1923.

168,547. FRESH CITROUS FRUITS. HUGH CHARLES SULLIVAN, Frostproof, Fla.
Filed February 18, 1922. Serial No. 159,536. PUBLISHED JANUARY 16, 1923.

168,548. ICE CREAM. NISSLEY CREAMERY COMPANY, Fort Worth, Tex.
Filed February 7, 1922. Serial No. 158,995. PUBLISHED MARCH 6, 1923.

168,549. ELECTRIC LAMP STANDS AND BASES. THE FRENCH FIBRE CO., INC., New York, N. Y.
Filed February 24, 1922. Serial No. 159,748. PUBLISHED FEBRUARY 20, 1923.

168,550. FRUIT CONFECTION. CORA A. SANBORN, Brooklyn, N. Y.
Filed March 1, 1922. Serial No. 160,029. PUBLISHED AUGUST 8, 1922.

168,551. BOYS' SUITS AND TOPCOATS. KIDS NOBBY KLOTHES, INC., New York, N. Y.
Filed March 2, 1922. Serial No. 160,067. PUBLISHED FEBRUARY 27, 1923.

168,552. ALUMINUM ALLOY. THE PARALITE COMPANY, Cleveland, Ohio.
Filed March 3, 1922. Serial No. 160,150. PUBLISHED FEBRUARY 20, 1923.

168,553. FABRIC AND LEATHER GLOVES. S. BLECHMAN & SONS INC., New York, N. Y.
Filed March 7, 1922. Serial No. 160,278. PUBLISHED JANUARY 30, 1923.

168,554. HOSIERY. THE FALLS CITY MILLS COMPANY, Louisville, Ky.
Filed March 10, 1922. Serial No. 160,492. PUBLISHED DECEMBER 12, 1922.

168,555. CANDY. GURINIAN CANDY CO., Chicago, Ill.
Filed March 25, 1922. Serial No. 161,248. PUBLISHED FEBRUARY 13, 1923.

168,556. SOFT DRINKS. MCCORMICK & CO., INCORPORATED, Baltimore, Md.
Filed April 5, 1922. Serial No. 161,786. PUBLISHED FEBRUARY 13, 1923.

168,557. BLANK RECORD BOOKS. FORBES PUBLISHING CO., Omaha, Nebr.
Filed April 10, 1922. Serial No. 161,982. PUBLISHED FEBRUARY 20, 1923.

168,558. ICE CREAM AND FROZEN-CUSTARD BISCUIT. FRANK PERSTIA, doing business as the White Rose Ice Cream and Frozen Custard Biscuit Company, New Orleans, La.
Filed July 3, 1922. Serial No. 166,468. PUBLISHED FEBRUARY 27, 1923.

168,559. A BATH ROBE WHICH MAY BE USED ALSO AS A TOWEL. CHRISTOPHER ROBERT HOYME, New York, N. Y.
Filed July 5, 1922. Serial No. 166,505. PUBLISHED FEBRUARY 13, 1923.

168,560. A BATH ROBE WHICH MAY BE USED ALSO AS A TOWEL. CHRISTOPHER ROBERT HOYME, New York, N. Y.
Filed July 5, 1922. Serial No. 166,506. PUBLISHED FEBRUARY 13, 1923.

168,561. FRESH APPLES, PEACHES, PEARS, PLUMS, PRUNES, AND QUINCES. WESTERN NEW YORK FRUIT GROWERS' CO-OPERATIVE PACKING ASS'N, INC., Rochester, N. Y.
Filed July 5, 1922. Serial No. 166,517. PUBLISHED FEBRUARY 20, 1923.

168,562. CRUDE COAL TAR AND COKE. ALABAMA BY-PRODUCTS CORPORATION, Birmingham and Tarrant, Ala.
Filed July 10, 1922. Serial No. 166,626. PUBLISHED JANUARY 9, 1923.

168,563. GENERAL MEDICINAL TONIC. WILLIAM CARSON BLACK, doing business as Herbolac Drug & Mfg. Co., Louisville, Ky.
Filed July 10, 1922. Serial No. 166,632. PUBLISHED FEBRUARY 20, 1923.

168,564. DRIED FRUITS. CALIFORNIA PRUNE AND APRICOT GROWERS, INC., San Jose, Calif., assignor to California Prune & Apricot Growers Association, San Jose, Calif., a Corporation of California.
Filed July 10, 1922. Serial No. 166,650. PUBLISHED FEBRUARY 27, 1923.

168,565. MINTS. HENRY W. ALEXANDER, Jr., doing business as H. W. Alexander Co., Philadelphia, Pa.
Filed July 13, 1922. Serial No. 166,802. PUBLISHED MARCH 6, 1923.

168,566. TABLE SIRUPS. HARDAWAY-CARGILL CO., Columbus, Ga.
Filed July 13, 1922. Serial No. 166,830. PUBLISHED FEBRUARY 20, 1923.

168,567. EVAPORATED MILK AND CREAM. WILLIAM B. FAIR, Habana, Cuba, and New York, N. Y.
Filed July 14, 1922. Serial No. 166,881. PUBLISHED FEBRUARY 27, 1923.

168,568. EVAPORATED MILK AND CREAM. WILLIAM B. FAIR, Habana, Cuba, and New York, N. Y.
Filed July 14, 1922. Serial No. 166,882. PUBLISHED FEBRUARY 27, 1923.

168,569. SPECIALLY-PREPARED FOOD PREPARATIONS OF CHOCOLATE, SUGAR, AND WATER, AND COCOA, SUGAR, AND WATER. H. B. HUNTER CO., INC., Norfolk, Va.
Filed July 14, 1922. Serial No. 166,885. PUBLISHED FEBRUARY 20, 1923.

168,570. MEDICINE FOR BLOOD, RHEUMATISM, LUMBAGO, AND THE NERVES. OSBORN H. KYLE, Columbus, Ohio.
Filed July 14, 1922. Serial No. 166,888. PUBLISHED FEBRUARY 20, 1923.

168,571. VEGETABLE OIL FLAVORED WITH OLIVE OIL. STROHMEYER & ARPE COMPANY, New York, N. Y.
Filed July 15, 1922. Serial No. 166,959. PUBLISHED FEBRUARY 20, 1923.

168,572. LEATHER. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed July 19, 1922. Serial No. 167,078. PUBLISHED FEBRUARY 13, 1923.

168,573. FACE POWDERS, FACE CREAMS, PERFUMES, TOILET WATERS, ROUGES, HAIR TONICS, DENTIFRICES, TOOTH POWDERS, DEODORIZING PREPARATIONS, AND SACHET POWDERS. ARTHUR WINARICK, New York, N. Y.
Filed July 20, 1922. Serial No. 167,153. PUBLISHED FEBRUARY 13, 1923.

168,574. NOODLES AND CUT AND TWISTED ALIMENTARY PASTE PRODUCTS. THE JOHN B. CANEPA COMPANY, Chicago, Ill.
Filed July 21, 1922. Serial No. 167,166. PUBLISHED FEBRUARY 27, 1923.

168,575. LEATHER. MAGNUS HESSBERG, INC., Richmond, Va.
Filed July 21, 1922. Serial No. 167,174. PUBLISHED FEBRUARY 13, 1923.

168,576. MAYONNAISE DRESSING FOR FOODSTUFFS. ESKAY PRODUCTS COMPANY, Baltimore, Md.
Filed July 22, 1922. Serial No. 167,230. PUBLISHED MARCH 6, 1923.

168,577. VINEGAR. THE WAYNE COUNTY PRODUCE CO., Brooklyn, N. Y.
Filed July 26, 1922. Serial No. 167,441. PUBLISHED MARCH 6, 1923.

168,578. LINEN AND COTTON HANDKERCHIEFS. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed Apr. 24, 1922. Serial No. 162,861. PUBLISHED MARCH 6, 1923.

168,579. CANDY. CRYSTAL CANDY CO., Winston-Salem, N. C.
Filed April 25, 1922. Serial No. 162,872. PUBLISHED FEBRUARY 20, 1923.

168,580. STEAM WHISTLE. JOHN KROPACZ, Drumheller, Alberta, Canada.
Filed April 26, 1922. Serial No. 162,934. PUBLISHED FEBRUARY 20, 1923.

168,581. FRESH CITROUS FRUIT AND FRESH DECIDUOUS FRUIT, FRESH VEGETABLES, AND FRESH CANTALOUPES. RANDOLPH MARKETING COMPANY, Los Angeles, Calif.
Filed April 26, 1922. Serial No. 162,953. PUBLISHED FEBRUARY 20, 1923.

168,582. CANDY—NAMELY, BAR GOODS. GURLEY CANDY COMPANY, Minneapolis, Minn.
Filed May 3, 1922. Serial No. 163,268. PUBLISHED FEBRUARY 13, 1923.

168,583. ALLOYS OF GOLD FOR DENTAL WORK. THE RICH-ALLOY COMPANY, Cleveland, Ohio.
Filed May 4, 1922. Serial No. 163,354. PUBLISHED FEBRUARY 27, 1923.

168,584. WINDOW-SHADE CLOTH. THE CHEMITEX PRODUCTS COMPANY, Akron, Ohio.
Filed May 6, 1922. Serial No. 163,434. PUBLISHED MARCH 6, 1923.

168,585. ARCH SUPPORTS. PLIABLE ARCH SUPPORT COMPANY, Indianapolis, Ind.
Filed May 6, 1922. Serial No. 163,471. PUBLISHED FEBRUARY 13, 1923.

168,586. COFFEE. BEL-JAR COFFEE CO., INC., Miami, Fla.
Filed May 16, 1922. Serial No. 163,915. PUBLISHED FEBRUARY 27, 1923.

168,587. FRESH GRAPES. PERRY O. CLARK, Lodi, Calif.
Filed May 19, 1922. Serial No. 164,101. PUBLISHED FEBRUARY 20, 1923.

168,588. SHEET-METAL CANS FOR COAL OIL AND GASOLINE. THE WINFIELD MANUFACTURING COMPANY, Warren, Ohio.
Filed May 19, 1922. Serial No. 164,139. PUBLISHED MARCH 13, 1923.

168,589. CANDY AND COCONUT-BAR CANDY. QUEEN ANNE CANDY COMPANY, Chicago, Ill.
Filed May 20, 1922. Serial No. 164,192. PUBLISHED FEBRUARY 20, 1923.

168,590. SARDINES. HENRIQUES BROTHERS LIMITED, Lisbon, Portugal.
Filed May 24, 1922. Serial No. 164,434. PUBLISHED FEBRUARY 13, 1923.

168,591. CANNED FRUITS AND VEGETABLES. WINTERS CANNING COMPANY, Suisun City, Calif.
Filed May 26, 1922. Serial No. 164,570. PUBLISHED MARCH 6, 1923.

168,592. GLOVES AND MITTENS MANUFACTURED FROM LEATHER AND FABRIC. HELMHOLZ MITTEN COMPANY, Cudahy, Wis.
Filed May 25, 1922. Serial No. 164,500. PUBLISHED DECEMBER 12, 1922.

168,593. REMEDY FOR CHLOROSIS, MALNUTRITION, ANÆMIA OF ALL KINDS, AND A BLOOD BUILDER AND TONIC. M. J. BREITENBACH COMPANY, New York, N. Y.
Filed May 27, 1922. Serial No. 164,580. PUBLISHED FEBRUARY 13, 1923.

168,594. LEATHER AND FABRIC GLOVES, HOSIERY, AND TEXTILE AND KNITTED UNDERWEAR FOR CHILDREN. ANTHONY W. NACK, Washington, D. C.
Filed May 29, 1922. Serial No. 164,661. PUBLISHED FEBRUARY 13, 1923.

168,595. LIVE OR DRESSED PIGEONS, SQUABS, OR POULTRY. JACK M. PUN, Wood's Ranch, near Stockton, Calif.
Filed May 31, 1922. Serial No. 164,720. PUBLISHED FEBRUARY 13, 1923.

168,596. LIVE CHICKS. THE KERR CHICKERIES INCORPORATED, Frenchtown, N. J.
Filed June 1, 1922. Serial No. 164,763. PUBLISHED FEBRUARY 27, 1923.

168,597. CANNED FRUITS. BANNING CANNING CO., Banning, Calif.
Filed May 23, 1922. Serial No. 164,300. PUBLISHED FEBRUARY 13, 1923.

168,598. CANNED FRUITS AND VEGETABLES. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 18, 1922. Serial No. 168,420. PUBLISHED FEBRUARY 13, 1923.

168,599. HAND SOAP. WILLIAM J. POPP, doing business as Fort Orange Chemical Company, Albany, N. Y.
Filed August 18, 1922. Serial No. 168,430. PUBLISHED FEBRUARY 13, 1923.

168,600. LUBRICATING OILS. WILLIAM D. CAVANAUGH, doing business as the Velvet Oil Company, Reno and Oil City, Pa.
Filed August 18, 1922. Serial No. 168,440. PUBLISHED FEBRUARY 27, 1923.

168,601. EXTRACTS AND FLAVORINGS FOR FOOD PURPOSES. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed August 19, 1922. Serial No. 168,456. PUBLISHED MARCH 6, 1923.

168,602. ORANGES IN THEIR NATURAL STATE. SANGER CITRUS ASS'N, Sanger, Calif.
Filed August 19, 1922. Serial No. 168,492. PUBLISHED MARCH 6, 1923.

168,603. CANNED TOMATO PASTE. ATLANTIC CANNING CO., Rehoboth Beach, Del.
Filed August 24, 1922. Serial No. 168,628. PUBLISHED MARCH 6, 1923.

168,604. WRITING PAPERS AND ENVELOPES. SAMUEL WARD MANUFACTURING CO., Boston, Mass.
Filed August 21, 1922. Serial No. 168,567. PUBLISHED DECEMBER 12, 1922.

168,605. FABRIC GLOVES, HOSIERY, KNITTED UNDERWEAR—NAMELY, UNDERSHIRTS, DRAWERS, AND UNION SUITS. SADIE I. ENTWISLE, New York, N. Y.
Filed August 25, 1922. Serial No. 168,673. PUBLISHED FEBRUARY 13, 1923.

168,606. CANDY. THE FRIEDMAN-KERR CO., Chicago, Ill.
Filed August 26, 1922. Serial No. 168,714. PUBLISHED FEBRUARY 13, 1923.

168,607. PLASTER BASE AND SHEATHING. MID-WEST BOX COMPANY, Chicago, Ill.
Filed August 28, 1922. Serial No. 168,777. PUBLISHED JANUARY 9, 1923.

168,608. SEWING BOXES AND TAILOR TRAYS. JOHN A. WITT, doing business as Wittfield Mfg. Co., Los Angeles, Calif.
Filed August 28, 1922. Serial No. 168,818. PUBLISHED FEBRUARY 27, 1923.

168,609. CANDY. F. B. WASHBURN & CO., Brockton, Mass.
Filed August 29, 1922. Serial No. 168,863. PUBLISHED FEBRUARY 13, 1923.

168,610. BICYCLES AND MOTOR CYCLES. FABBRICA AUTOMOBILI E VELOCIPEDI EDOARDO BIANCHI, Milan, Italy.
Filed August 30, 1922. Serial No. 168,877. PUBLISHED JANUARY 30, 1923.

168,611. AUTOMOBILES. SOCIETA ANONIMA EDOARDO BIANCHI, Milan, Italy.
Filed August 30, 1922. Serial No. 168,907. PUBLISHED JANUARY 30, 1923.

168,612. OLIVE OIL. C. BASILEA & CO., New York, N. Y.
Filed August 31, 1922. Serial No. 168,912. PUBLISHED FEBRUARY 13, 1923.

168,613. AUTOMOBILE TRUCKS. FEDERAL MOTOR TRUCK COMPANY, Detroit, Mich.
Filed August 31, 1922. Serial No. 168,924. PUBLISHED FEBRUARY 20, 1923.

168,614. DOLLS. KÄMMER & REINHARDT, A. G., Waltershausen, Germany.
Filed August 31, 1922. Serial No. 168,927. PUBLISHED FEBRUARY 13, 1923.

168,615. CANNED FRUITS. OLYMPIA CANNING COMPANY, Olympia, Wash.
Filed September 5, 1922. Serial No. 169,082. PUBLISHED MARCH 6, 1923.

168,616. SWEATERS, SCARFS, OUTER SHIRTS, OUTER VESTS, SHAWLS, CAPS, HATS; GIRDLES FOR MEN, WOMEN, AND CHILDREN, MADE FROM A FOUNDATION OF OPEN-MESH NETTED FABRIC WITH AN INTERWOVEN FILLING OF SILK, WORSTED, OR COTTON YARN. FREDERICK E. STROHMEIER, Ashland, Pa.
Filed September 5, 1922. Serial No. 169,092. PUBLISHED FEBRUARY 13, 1923.

168,617. SHAVING CREAM IN THE FORM OF A SOAP PASTE. FRED H. GROSS, Wilkes-Barre, Pa.
Filed September 7, 1922. Serial No. 169,167. PUBLISHED FEBRUARY 13, 1923.

168,618. LIQUID CLEANING PREPARATION. ANSHELM F. HEDBERG, doing business as A. F. Hedberg & Co., Long Island City, N. Y.
Filed July 27, 1922. Serial No. 167,465. PUBLISHED FEBRUARY 13, 1923.

168,619. HAMMERS. THE STANLEY WORKS, New Britain, Conn.
Filed July 27, 1922. Serial No. 167,491. PUBLISHED FEBRUARY 27, 1923.

168,620. HOG REMEDY FOR MIXED INFECTION, SWINE PLAGUE, OR FLU. WILLIAM P. VAN GILDER AND S. E. WARD, doing business as W. P. Van Gilder, also as S. E. Ward, Brunswick, Nebr.
Filed July 27, 1922. Serial No. 167,495. PUBLISHED FEBRUARY 13, 1923.

168,621. ALCOHOL RUBBING AND BATHING PREPARATION. W. & H. WALKER, INC., doing business as Thomas Chemical Co., Pittsburgh, Pa.
Filed July 27, 1922. Serial No. 167,500. PUBLISHED FEBRUARY 13, 1923.

168,622. CORSETS, WAISTS, GIRDLES, AND CORSET COMBINATIONS. BIRDSEY SOMERS COMPANY, New York, N. Y.
Filed July 28, 1922. Serial No. 167,507. PUBLISHED JANUARY 30, 1923.

168,623. CANDY, PARTICULARLY CHOCOLATES. KIBBE BROTHERS COMPANY, Springfield, Mass.
Filed August 2, 1922. Serial No. 167,723. PUBLISHED MARCH 6, 1923.

168,624. CANDY, PARTICULARLY CHOCOLATES. KIBBE BROTHERS COMPANY, Springfield, Mass.
Filed August 2, 1922. Serial No. 167,724. PUBLISHED MARCH 6, 1923.

168,625. ICE-CREAM MIX CONSISTING OF A CANNED CREAM MIXTURE FOR MAKING ICE CREAM. TROY MILK PRODUCTS COMPANY, East Troy, Wis.
Filed August 2, 1922. Serial No. 167,742. PUBLISHED FEBRUARY 27, 1923.

168,626. FUR SKINS. JACOB BECHER, Brooklyn, N. Y.
Filed August 3, 1922. Serial No. 167,762. PUBLISHED FEBRUARY 13, 1923.

168,627. ELECTRIC HEADLIGHTS FOR AUTOMOBILES, MOTOR CYCLES, STREET CARS, LOCOMOTIVES, AND FOR ELECTRIC FIXTURES FOR USE IN ILLUMINATING RESIDENCES, STORES, AND THE LIKE. RALPH WAYNE HARRIS, doing business as Harris Indirex Light, Cranford, N. J.
Filed August 3, 1922. Serial No. 167,773. PUBLISHED FEBRUARY 13, 1923.

168,628. LIQUID CIRCULATORS. NORMAN EMILE MCCLELLAND, New York, N. Y.
Filed August 4, 1922. Serial No. 167,825. PUBLISHED FEBRUARY 27, 1923.

168,629. OBSTETRICAL OUTFITS AND SURGICAL SUPPLIES. CATHERINE M. MANION, doing business as Manion Surgical Supply House, New York, N. Y.
Filed August 7, 1922. Serial No. 167,881. PUBLISHED FEBRUARY 27, 1923.

168,630. CORSETS. STROUSE, ADLER & CO., New Haven, Conn.
Filed August 8, 1922. Serial No. 167,952. PUBLISHED JANUARY 30, 1923.

168,631. CIGARS. H. DE CABANAS Y CARBAJAL, Jersey City, N. J., and New York, N. Y.
Filed August 11, 1922. Serial No. 168,112. PUBLISHED FEBRUARY 13, 1923.

168,632. CANNED VEGETABLES. SACO VALLEY CANNING CO., Portland, Me.
Filed August 11, 1922. Serial No. 168,128. PUBLISHED FEBRUARY 13, 1923.

168,633. ARTICLE OF FOOD COMPOSED OF DOUGH AND SAUSAGE COOKED IN PATTIES. MILTON P. MILLER, Fort Worth, Tex.
Filed August 12, 1922. Serial No. 168,161. PUBLISHED MARCH 6, 1923.

168,634. WRITING PAPER, CORRESPONDENCE ENVELOPES, WRITING TABLETS, AND PAPETERIES. MID WEST PAPER & ENVELOPE CO., Marion, Ind.
Filed August 16, 1922. Serial No. 168,326. PUBLISHED MARCH 6, 1923.

168,635. READY-MIXED PAINTS, MINERAL SPIRITS, AND PAINT OIL. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed August 17, 1922. Serial No. 168,350. PUBLISHED FEBRUARY 27, 1923.

168,636. CANNED, KIPPERED, SMOKED, AND SALTED FISH. WESTERN CALIFORNIA FISH CO., San Francisco, Calif.
Filed August 17, 1922. Serial No. 168,395. PUBLISHED FEBRUARY 20, 1923.

168,637. FRESH CANTALOUPES. EARL FRUIT COMPANY, Sacramento, Calif.
Filed August 18, 1922. Serial No. 168,403. PUBLISHED MARCH 6, 1923.

168,638. CANNED FRUIT, CANNED VEGETABLES, CANNED FISH, DRIED FRUIT. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif.
Filed June 3, 1922. Serial No. 164,979. PUBLISHED FEBRUARY 27, 1923.

168,639. HOSIERY. DIX HOSIERY CO., Cincinnati, Ohio.
Filed June 5, 1922. Serial No. 165,021. PUBLISHED FEBRUARY 13, 1923.

168,640. CANNED AND DEHYDRATED FRUITS AND CANNED AND DEHYDRATED VEGETABLES. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg.
Filed June 12, 1922. Serial No. 165,389. PUBLISHED MARCH 6, 1923.

168,641. TABLE RELISHES; SALAD DRESSINGS; MARMALADES. DAINTYMAID CO., Somerville, Mass.
Filed June 14, 1922. Serial No. 165,484. PUBLISHED FEBRUARY 27, 1923.

168,642. CUTLERY—VIZ, RAZORS, POCKETKNIVES, AND BUTCHER KNIVES. UNION CUTLERY CO., Olean, N. Y.
Filed June 14, 1922. Serial No. 165,514. PUBLISHED FEBRUARY 20, 1923.

168,643. RADIO RECEIVING SETS. EDWARDS & COMPANY, INC., New York, N. Y.
Filed June 15, 1922. Serial No. 165,533. PUBLISHED FEBRUARY 20, 1923.

168,644. VEGETABLE OIL FOR SALAD AND COOKING. THE AMERICAN COTTON OIL COMPANY, Union Township near Guttenberg, N. J., and New York, N. Y.
Filed June 16, 1922. Serial No. 165,575. PUBLISHED FEBRUARY 20, 1923.

168,645. PREPARED FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; and Savannah, Ga.
Filed June 16, 1922. Serial No. 165,605. PUBLISHED FEBRUARY 27, 1923.

168,646. ANTISEPTIC OIL FOR THE PREVENTION AND TREATMENT OF DISEASES CONTRACTED BY GERMS COMING IN CONTACT WITH THE MEMBRANE OF THE NOSE, THROAT, AND LUNGS, AND FOR INFLAMMATION AND CONGESTION. FRANK C. HOTTEL, doing business as Vapolyptus Co., Portland, Oreg.
Filed June 19, 1922. Serial No. 165,682. PUBLISHED FEBRUARY 20, 1923.

168,647. ELECTRICAL TELEPHONE RECEIVERS. METROPOLITAN RADIO CORPORATION, Newark, N. J.
Filed June 19, 1922. Serial No. 165,699. PUBLISHED FEBRUARY 13, 1923.

168,648. FRESH VEGETABLES, FRESH DECIDUOUS FRUITS, FRESH CITROUS FRUITS, FRESH CANTALOUPES, AND FRESH GRAPES. WITHERS BROTHERS, Los Angeles, Calif.
Filed June 19, 1922. Serial No. 165,735. PUBLISHED MARCH 6, 1923.

168,649. BABBITT METAL. AMERICAN BORON PRODUCTS CO., INC., Reading, Pa.
Filed June 20, 1922. Serial No. 165,742. PUBLISHED FEBRUARY 20, 1923.

168,650. PORTLAND CEMENT. SECURITY CEMENT & LIME CO., Hagerstown, Md.
Filed June 20, 1922. Serial No. 165,762. PUBLISHED FEBRUARY 13, 1923.

168,651. ORANGE MARMALADE. EMMA G. DRIFFILL, doing business as Driffill & Norman, Oxnard, Calif.
Filed June 21, 1922. Serial No. 165,784. PUBLISHED FEBRUARY 13, 1923.

168,652. RAZORS, SCISSORS, AND CLIPPERS. M. JUNO, New York, N. Y.
Filed June 21, 1922. Serial No. 165,794. PUBLISHED FEBRUARY 27, 1923.

168,653. ASBESTOS-RUBBER SHEET PACKING. WALWORTH MANUFACTURING COMPANY, Boston, Mass.
Filed June 21, 1922. Serial No. 165,844. PUBLISHED FEBRUARY 13, 1923.

168,654. FURS, SKINS, AND PELTRIES. GUSTAVE J. FUERTH & CO., New York, N. Y.
Filed June 22, 1922. Serial No. 165,864. PUBLISHED JANUARY 2, 1923.

168,655. SIRUP MADE FROM CANE AND MAPLE SUGAR. VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt.
Filed June 26, 1922. Serial No. 166,117. PUBLISHED MARCH 6, 1923.

168,656. CAPS AND SOFT HATS FOR MEN, WOMEN, AND CHILDREN. SAM GOLDSTEIN, doing business as Rex Cap Company, Chicago, Ill.
Filed July 3, 1922. Serial No. 166,449. PUBLISHED FEBRUARY 20, 1923.

168,657. FRESH CITROUS FRUITS. R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif.
Filed June 30, 1922. Serial No. 166,304. PUBLISHED FEBRUARY 20, 1923.

168,658. SLIPPERS MADE WHOLLY OR IN PART OF FELT. LUCILLE FELT SLIPPER CO., INC., New York, N. Y.
Filed November 28, 1921. Serial No. 156,007. PUBLISHED FEBRUARY 27, 1923.

168,659. CHOCOLATES. WISCONSIN CANDY CO., Plymouth, Wis.
Filed November 19, 1921. Serial No. 155,654. PUBLISHED FEBRUARY 27, 1923.

168,660. MOTOR FUEL OILS. CHEMICAL FUEL COMPANY OF AMERICA, INC., Louisville, Ky.
Filed November 18, 1921. Serial No. 155,550. PUBLISHED FEBRUARY 27, 1923.

168,661. MOTOR FUEL OILS. CHEMICAL FUEL COMPANY OF AMERICA, INC., Louisville, Ky.
Filed November 18, 1921. Serial No. 155,549. PUBLISHED FEBRUARY 27, 1923.

168,662. ARTIFICIAL STONE USED PRINCIPALLY FOR BUILDING CONSTRUCTION AND A COMPOSITION FOR MAKING ARTIFICIAL STONE. LEANDER DOUGLAS HARTER, Oklahoma, Okla.
Filed November 17, 1921. Serial No. 155,497. PUBLISHED MAY 16, 1922.

168,663. GERMICIDAL SOLUTION. SHARPE-PHILIPPI CO., INC., Philadelphia, Pa.
Filed November 12, 1921. Serial No. 155,327. PUBLISHED FEBRUARY 20, 1923.

168,664. CAN OPENERS. QUICKSAFE MANUFACTURING COMPANY, Nashville, Tenn.
Filed November 12, 1921. Serial No. 155,320. PUBLISHED FEBRUARY 20, 1923.

168,665. AUTOMOBILE ACCESSORIES—NAMELY, AUTOMOBILE MIRRORS, RADIATOR CAPS, AND PARTS THEREOF. ESSANDEE CORPORATION, Los Angeles, Calif.
Filed October 26, 1921. Serial No. 154,586. PUBLISHED FEBRUARY 20, 1923.

168,666. PLASTER. PLYMOUTH GYPSUM CO., Fort Dodge, Iowa.
Filed October 1, 1921. Serial No. 153,618. PUBLISHED DECEMBER 26, 1922.

168,667. PLASTER. PLYMOUTH GYPSUM CO., Fort Dodge, Iowa.
Filed October 1, 1921. Serial No. 153,617. PUBLISHED JANUARY 9, 1923.

168,668. BUTTER. THE SUMNER CO., Akron, Ohio.
Filed September 15, 1921. Serial No. 152,968. PUBLISHED MARCH 6, 1923.

168,669. NUTS SALTED AND IN THEIR NATURAL STATE. COLONIAL NOVELTY CO., Philadelphia, Pa., assignor to William F. Baker, Wayne, Pa.
Filed September 9, 1921. Serial No. 152,740. PUBLISHED FEBRUARY 20, 1923.

168,670. CORSET AND SHOE LACES AND TIPS THEREFOR. ADJUSTO SHOE LACE COMPANY, INCORPORATED, New York, N. Y., assignor to Anawan Braid Company, Providence, R. I., a Corporation of Rhode Island.
Filed August 29, 1921. Serial No. 152,303. PUBLISHED JANUARY 9, 1923.

168,671. TOOLS ADAPTED FOR GENERAL USE. LEO WISE, Cincinnati, Ohio.
Filed August 19, 1921. Serial No. 151,968. PUBLISHED FEBRUARY 27, 1923.

168,672. GUMMED PAPER AND GUMMED CLOTH IN SHEETS AND STRIPS. IDEAL COATED PAPER COMPANY, Brookfield, Mass.
Filed June 27, 1921. Serial No. 149,704. PUBLISHED MARCH 6, 1923.

168,673. FUR GARMENTS AND WOMEN'S COATS WITH FUR TRIMMING. SAFCHIK & COMPANY, New York, N. Y.
Filed May 18, 1921. Serial No. 147,894. PUBLISHED MARCH 7, 1922.

168,674. CLOTH IN THE PIECE MADE OF WOOL AND COTTON. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England.
Filed April 21, 1921. Serial No. 146,509. PUBLISHED FEBRUARY 27, 1923.

168,675. A COMPOUND OF SUGAR, GELATIN, AND FRUIT ACID, ARTIFICIALLY COLORED AND FLAVORED. MILES MANUFACTURING COMPANY, Los Angeles, Calif.
Filed April 14, 1921. Serial No. 146,180. PUBLISHED OCTOBER 4, 1921.

168,676. HORSESHOES AND HORSESHOE CALKS. DIAMOND CALK AND HORSESHOE CO., Duluth, Minn.
Filed March 11, 1921. Serial No. 144,607. PUBLISHED FEBRUARY 27, 1923.

168,677. COTTON, WOOLEN, OR SILK PIECE GOODS. HERBERT J. CATHCART, New York, N. Y.
Filed February 24, 1921. Serial No. 143,983. PUBLISHED JUNE 7, 1921.

168,678. CANDY. GRACE CHOCOLATE COMPANY, Baltimore, Md.
Filed September 8, 1922. Serial No. 169,207. PUBLISHED MARCH 6, 1923.

168,679. CERTAIN NAMED CLOTHING. ALPHEN, INC., New York, N. Y.
Filed September 9, 1922. Serial No. 169,233. PUBLISHED JANUARY 9, 1923.

168,680. CANNED PINEAPPLE. HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif.
Filed September 9, 1922. Serial No. 169,241. PUBLISHED FEBRUARY 27, 1923.

168,681. CANNED PINEAPPLE. HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif.
Filed September 9, 1922. Serial No. 169,242. PUBLISHED MARCH 6, 1923.

168,682. CANNED PINEAPPLE. HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif.
Filed September 9, 1922. Serial No. 169,244. PUBLISHED FEBRUARY 27, 1923.

168,683. CANNED PINEAPPLE. HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif.
Filed September 9, 1922. Serial No. 169,245. PUBLISHED FEBRUARY 27, 1923.

168,684. HAND AND POWER OPERATED STUMP PULLERS AND WINCHES. K. PULLING MACHINE COMPANY, San Francisco, Calif.
Filed September 11, 1922. Serial No. 169,307. PUBLISHED FEBRUARY 20, 1923.

168,685. FRESH FRUITS—NAMELY, APPLES. WENATCHEE NORTHERN WAREHOUSE & MARKETING CO., Wenatchee, Wash.
Filed September 11, 1922. Serial No. 169,342. PUBLISHED MARCH 6, 1923.

168,686. FRESH DECIDUOUS FRUIT. J. C. KNOWLES, Monticello, Calif.
Filed September 13, 1922. Serial No. 169,404. PUBLISHED FEBRUARY 27, 1923.

168,687. FRESH DECIDUOUS FRUITS. H. W. WOOD, Lodi, Calif., doing business as Nutwood Vineyard, Lodi and Oakland, Calif.
Filed September 15, 1922. Serial No. 169,511. PUBLISHED MARCH 6, 1923.

168,688. SAUSAGES COMPOSED OF MEAT PRODUCTS, MEAT, WATER, AND CEREAL. PURITY PACKING COMPANY, Chicago, Ill.
Filed September 16, 1922. Serial No. 169,560. PUBLISHED FEBRUARY 27, 1923.

168,689. COAL. THE SOUTHERN COAL & COKE CO., Cincinnati, Ohio.
Filed September 18, 1922. Serial No. 169,653. PUBLISHED JANUARY 9, 1923.

168,690. COAL. THE SOUTHERN COAL & COKE CO., Cincinnati, Ohio.
Filed September 18, 1922. Serial No. 169,655. PUBLISHED FEBRUARY 13, 1923.

168,691. CANNED FRUITS AND VEGETABLES. H. M. NEWHALL & CO., San Francisco, Calif.
Filed September 21, 1922. Serial No. 169,770. PUBLISHED FEBRUARY 27, 1923.

168,692. ANTISEPTIC TABLETS. SAMUEL P. RITTER, doing business as Dr. Ritter's Laboratories, Hackensack, N. J.
Filed September 21, 1922. Serial No. 169,780. PUBLISHED FEBRUARY 13, 1923.

168,693. PROCESSED DRIED FRUITS. VIX-SOK FOOD PRODUCTS CORPORATION, San Francisco, Calif.
Filed September 21, 1922. Serial No. 169,792. PUBLISHED MARCH 6, 1923.

168,694. LAXATIVE TABLETS. CHARLES G. ALLEY, doing business as Alley Medicine Co., Birmingham, Ala.
Filed September 22, 1922. Serial No. 169,796. PUBLISHED FEBRUARY 13, 1923.

168,695. SPICES. PRICE FLAVORING EXTRACT COMPANY, Chicago, Ill.
Filed September 23, 1922. Serial No. 169,866. PUBLISHED MARCH 13, 1923.

168,696. SPICES. PRICE FLAVORING EXTRACT COMPANY, Chicago, Ill.
Filed September 23, 1922. Serial No. 169,865. PUBLISHED MARCH 13, 1923.

168,697. SALVE FOR THE TREATMENT OF PILES. RUDOLPH B. HEED, doing business as The Columbus Pile Remedy Company, Columbus, Ohio.
Filed September 22, 1922. Serial No. 169,810. PUBLISHED FEBRUARY 13, 1923.

168,698. STATEMENTS, CHECKS, BILLHEADS, PURCHASE ORDERS, DELIVERY TICKETS, LETTERHEADS, MEMO PADS, AND ENVELOPES. FORT DEARBORN ENGRAVING CO., Chicago, Ill.
Filed July 15, 1922. Serial No. 166,943. PUBLISHED MARCH 6, 1923.

168,699. COATED BOOK PAPERS. MCLAURIN-JONES CO., Brookfield, Mass.
Filed July 14, 1922. Serial No. 166,894. PUBLISHED MARCH 6, 1923.

168,700. CANDIES AND CHOCOLATES. UNITED CIGAR STORES COMPANY OF AMERICA, Jersey City, N. J., and New York, N. Y.
Filed July 8, 1922. Serial No. 166,613. PUBLISHED MARCH 6, 1923.

168,701. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed July 7, 1922. Serial No. 166,547. PUBLISHED MARCH 13, 1923.

168,702. FRESH TOMATOES. UNION CELERY COMPANY, Kansas City, Mo.
Filed July 3, 1922. Serial No. 166,486. PUBLISHED MARCH 6, 1923.

168,703. CANNED OLIVES. MT. IDA PACKING COMPANY, Oroville, Calif.
Filed June 6, 1922. Serial No. 165,086. PUBLISHED MARCH 6, 1923.

168,704. FLAVORING EXTRACT FOR FOOD PURPOSES ONLY. SOUTHERN BEVERAGE COMPANY, Galveston, Tex.
Filed May 16, 1922. Serial No 163,949. PUBLISHED MARCH 6, 1923.

168,705. PAPER PRODUCTS—NAMELY, WRITING PAPER AND ENVELOPES, PRINT PAPER, PAPER TOWELING, CRÊPE PAPER, TOILET PAPER, WRAPPING PAPER, AND KRAFT PAPER. BROWN COMPANY, Portland, Me.
Filed March 8, 1920. Serial No. 129,373. PUBLISHED MARCH 6, 1923.

168,706. SILK FABRICS IN THE PIECE. J. H. & C. K. EAGLE, INC., Shamokin, Pa., and New York, N. Y.
Filed July 30, 1921. Serial No. 151,154. PUBLISHED MARCH 13, 1923.

168,707. CIGARETTE PAPER. SOBRINOS DE R. ABAD SANTONJA, Alcoy, Spain.
Filed August 3, 1921. Serial No. 151,334. PUBLISHED MARCH 13, 1923.

168,708. ERASERS, LEAD PENCILS, REFILL LEADS, RUBBER BANDS, AND COPYING PENCILS. AMERICAN LEAD PENCIL COMPANY, New York, N. Y.
Filed October 22, 1921. Serial No. 154,425. PUBLISHED MARCH 13, 1923.

168,709. PARCEL CARRIER MADE OF FLEXIBLE FABRIC AND PARTICULARLY DESIGNED FOR USE IN AUTOMOBILES. CORA P. ATKINS, West Hartford, Conn.
Filed November 19, 1921. Serial No. 155,584. PUBLISHED FEBRUARY 20, 1923.

168,710. HAIR NETS. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed November 21, 1921. Serial No. 155,722. PUBLISHED MARCH 13, 1923.

168,711. ICE CREAM, SHERBET, ICES, AND FROZEN DAINTIES. BENNIE B. CUTRER, doing business as Blu-Ribon Ice Cream Co., Baton Rouge, La.
Filed December 2, 1921. Serial No. 156,188. PUBLISHED MARCH 13, 1923.

168,712. CERTAIN NAMED CONSTRUCTION MATERIALS. STAR WOOD PRODUCTS COMPANY, Louisville, Ky.
Filed January 26, 1922. Serial No. 158,493. PUBLISHED FEBRUARY 20, 1923.

168,713. CERTAIN KINDS OF CUTLERY OF BASE METAL. PREMIER CUTLERY, INC., New York, N. Y.
Filed February 8, 1922. Serial No. 159,050. PUBLISHED MARCH 13, 1923.

168,714. LUBRICATING OIL, AUTOMOBILE OIL, MACHINE OIL, LUBRICATING GREASES. LEONARD R. CARLEY, Watertown, Conn.
Filed March 13, 1922. Serial No. 160,587. PUBLISHED MARCH 13, 1923.

168,715. WRITING PAPER, ENVELOPES, BRISTOL OR CARD BOARD SUITABLE FOR VISITING CARDS. V. VIVAUDOU, INC., New York, N. Y.
Filed April 1, 1922. Serial No. 161,660. PUBLISHED MARCH 13, 1923.

168,716. CHEMICAL PRODUCTS—THAT IS TO SAY, GELATIN AND OSSEIN (GLUES MADE FROM BONES AND GLUES.) SOCIÉTÉ CHIMIQUE DE L'ESCAUT, Hemixem, Antwerp, Belgium.
Filed April 27, 1922. Serial No. 163,005. PUBLISHED MARCH 13, 1923.

168,717. DRY POWDER COMPOSED OF PURE FRUIT PECTIN, PURE CANE SUGAR, AND PURE FRUIT TARTNESS, USED IN MAKING JELLIES, JAMS, MARMALADES, AND SIRUPS. JOY-JEL COMPANY, St. Joseph, Mo.
Filed May 11, 1922. Serial No. 163,680. PUBLISHED MARCH 6, 1923.

168,718. POLISH FOR FURNITURE, AUTOMOBILES, AND PAINTED AND VARNISHED SURFACES, WITH INCIDENTAL PROPERTIES AS A POLISH FOR LEATHER, METAL, AND GLASS.) STEPHEN SCHOENER, doing business as Quixy Polish Co., Jersey City, N. J.
Filed November 7, 1922. Serial No. 171,709. PUBLISHED MARCH 13, 1923.

168,719. DIAPERING IN THE PIECE. FORNEY & CO. INC., New York, N. Y.
Filed November 9, 1922. Serial No. 171,753. PUBLISHED MARCH 6, 1923.

168,720. DEVICE FOR UNIFORMLY MIXING THE CHARGE BEFORE EXPLODING IT IN INTERNAL-COMBUSTION ENGINES. THE P. S. PALMER COMPANY, Bridgeport, Conn.
Filed November 9, 1922. Serial No. 171,764. PUBLISHED FEBRUARY 27, 1923.

168,721. ELECTRIC RANGES. FRANK M. ELDREDGE, doing business as Gem Manufacturing Company, Detroit, Mich.
Filed November 10, 1922. Serial No. 171,788. PUBLISHED FEBRUARY 13, 1923.

168,722. ROLL CASES FOR CONTAINING AUGERS AND BITS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed November 10, 1922. Serial No. 171,800. PUBLISHED FEBRUARY 27, 1923.

168,723. BOXES FOR CONTAINING AUGERS AND BITS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed November 10, 1922. Serial No. 171,802. PUBLISHED FEBRUARY 27, 1923.

168,724. MEDICINAL REMEDY FOR SEASICKNESS FOR HUMAN USE. W. JONES & CO., London, England.
Filed November 10, 1922. Serial No. 171,804. PUBLISHED FEBRUARY 20, 1923.

168,725. SCISSORS, SHEARS, RAZOR BLADES, POCKETKNIVES, TABLE KNIVES OF BASE METAL, KITCHEN KNIVES, AND BUTCHER KNIVES. K. C. SEELBACH COMPANY, INC., New York, N. Y.
Filed November 10, 1922. Serial No. 171,819. PUBLISHED FEBRUARY 27, 1923.

168,726. PAPER BAGS. HUBBS & CORNING COMPANY, Baltimore, Md.
Filed November 11, 1922. Serial No. 171,845. PUBLISHED FEBRUARY 27, 1923.

168,727. LIQUID REFINISHING COMPOUND. EDMUND B. WHITMAN, doing business as Refinishing Products Co., Minneapolis, Minn.
Filed November 13, 1922. Serial No. 171,973. PUBLISHED FEBRUARY 27, 1923.

168,728. READY-MIXED WALL PAINTS, WALL SIZE, AND WALL-PAINT THINNERS. SEWALL PAINT & GLASS COMPANY, Kansas City, Mo.
Filed November 17, 1922. Serial No. 172,186. PUBLISHED FEBRUARY 27, 1923.

168,729. HOT-WATER BOTTLES, RUBBER GLOVES, THERMOMETERS, RUBBER SHEETS, SANITARY NAPKINS, SANITARY BELTS, SANITARY APRONS. CALHOUN, ROBBINS & CO., New York, N. Y.
Filed November 18, 1922. Serial No. 172,210. PUBLISHED FEBRUARY 13, 1923.

168,730. LIQUID AND POWDERED PASTES, GLUES, AND ADHESIVES, INCLUDING RUBBER CEMENT, CELLULOID CEMENT, AND VARNISH CEMENT OR CEMENTS OF FOSSIL-GUM BASE. THE GLUCOL MFG. CO., Cleveland, Ohio.
Filed November 20, 1922. Serial No. 172,271. PUBLISHED MARCH 13, 1923.

168,731. METAL HOT-WATER BOTTLES AND BED WARMERS. METAL GOODS MANUFACTURING CO., Boston, Mass.
Filed November 20, 1922. Serial No. 172,280. PUBLISHED MARCH 13, 1923.

168,732. SPLIT BAMBOO LENGTHS. THE H. L. LEONARD ROD CO., New York, N. Y.
Filed November 21, 1922. Serial No. 172,337. PUBLISHED FEBRUARY 13, 1923.

168,733. READY-MIXED WATER PAINTS. THE MAXWELL PAINT COMPANY, Philadelphia, Pa.
Filed November 21, 1922. Serial No. 172,338. PUBLISHED MARCH 13, 1923.

168,734. PASS HOLDERS. EMIL WEISSBROD & SONS, INC., Greenfield, Mass.
Filed November 22, 1922. Serial No. 172,408. PUBLISHED MARCH 13, 1923.

168,735. COTTON PIECE GOODS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed November 25, 1922. Serial No. 172,556. PUBLISHED FEBRUARY 27, 1923.

168,736. POLISH USED FOR POLISHING ENAMELED, PAINTED, OR VARNISHED SURFACES. SHELDON BOOTH & CO., Chicago, Ill.
Filed November 28, 1922. Serial No. 172,636. PUBLISHED MARCH 13, 1923.

168,737. CHEMICAL COMPOSITION SUITABLE FOR THE REMOVAL OF OILS, PAINTS, GUMS, SHELLAC, VARNISHES, AND GREASES. SHELLAC CO. OF NEW YORK, New York, N. Y.
Filed November 29, 1922. Serial No. 172,689. PUBLISHED MARCH 13, 1923.

168,738. WASHING POWDER. NUBRIGHT COMPANY, Concord, Calif.
Filed October 18, 1922. Serial No. 170,803. PUBLISHED FEBRUARY 13, 1923.

168,739. PHARMACEUTICAL PREPARATION FOR THE PREVENTION AND CORRECTION OF VAGINITIS, LEUCORRHEA, CATARRHAL INFLAMMATIONS, AND BAD-SMELLING DISCHARGES. EDWARD J. O'CONNOR, doing business as Moon Laboratories, St. Louis, Mo.
Filed October 19, 1922. Serial No. 170,948. PUBLISHED FEBRUARY 13, 1923.

168,740. CIGAR AND CIGARETTE MACHINERY AND PARTS THEREOF, SICKLE BARS AND SICKLE-BAR BLADES FOR AGRICULTURAL MACHINES, AND HOISTING MACHINERY AND PARTS THEREOF. AMERICAN MACHINE AND FOUNDRY CO., Brooklyn, N. Y.
Filed October 26, 1922. Serial No. 171,197. PUBLISHED FEBRUARY 27, 1923.

168,741. BURS. MILTON D. BARKANN, Jersey City, N. J.
Filed October 26, 1922. Serial No. 171,198. PUBLISHED FEBRUARY 27, 1923.

168,742. PIN BOARDS FOR USE IN TEXTILE INDUSTRY. FREDERICK C. WASHBURN, New Bedford, Mass.
Filed October 26, 1922. Serial No. 171,239. PUBLISHED FEBRUARY 27, 1923.

168,743. LINEN AND COTTON PIECE GOODS. DERRYVALE LINEN CO., INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,260. PUBLISHED MARCH 6, 1923.

168,744. JUTE, HEMP, HAIR, AND WOOL PIECE GOODS. DERRYVALE LINEN CO. INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,262. PUBLISHED MARCH 6, 1923.

168,745. LINEN AND COTTON PIECE GOODS. DERRYVALE LINEN CO., INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,264. PUBLISHED MARCH 6, 1923.

168,746. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed October 27, 1922. Serial No. 171,291. PUBLISHED FEBRUARY 13, 1923.

168,747. CIGARS. JACOBSTEIN BROS., INC., Rochester, N. Y.
Filed October 28, 1922. Serial No. 171,323. PUBLISHED FEBRUARY 13, 1923.

168,748. COAL AND COKE. PENNSYLVANIA COAL & COKE CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed October 30, 1922. Serial No. 171,384. PUBLISHED FEBRUARY 13, 1923.

168,749. COAL AND COKE. PENNSYLVANIA COAL & COKE CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed October 30, 1922. Serial No. 171,386. PUBLISHED FEBRUARY 13, 1923.

168,750. DISHWASHING MACHINES. TRACY W. SIMPSON, doing business as American Dishwashing Machine Company, Oakland, Calif.
Filed November 1, 1922. Serial No. 171,477. PUBLISHED FEBRUARY 27, 1923.

168,751. CERTAIN-NAMED FURNITURE. A. W. ANDERSON CORPORATION, New York, N. Y.
Filed October 31, 1922. Serial No. 171,401. PUBLISHED FEBRUARY 20, 1923.

168,752. FLUE CLEANERS. LEONARD W. JOHNSON, doing business as Ruggles & Ruggles, Batavia, Ill.
Filed November 2, 1922. Serial No. 171,497. PUBLISHED FEBRUARY 20, 1923.

168,753. FERTILIZER. THE CENTRAL CHEMICAL COMPANY, Hagerstown, Md.
Filed November 3, 1922. Serial No. 171,526. PUBLISHED MARCH 13, 1923.

168,754. GROUND, LUMP, AND GRAVEL FLUOR-SPAR. KENTUCKY FLUOR SPAR CO., Marion, Ky.
Filed November 3, 1922. Serial No. 171,541. PUBLISHED FEBRUARY 13, 1923.

168,755. SMOKING AND CHEWING TOBACCO. MOSS & LOWENHAUPT CIGAR CO., St. Louis, Mo.
Filed November 6, 1922. Serial No. 171,640. PUBLISHED FEBRUARY 13, 1923.

168,756. GASOLINE CANDLES, LIQUID PARAFFIN, AND LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed November 6, 1922. Serial No. 171,664. PUBLISHED FEBRUARY 13, 1923.

168,757. RADIO RECEIVING SETS AND PARTS THEREOF. UNION CONSTRUCTION COMPANY, San Francisco, Calif.
Filed October 4, 1922. Serial No. 171,671. PUBLISHED FEBRUARY 20, 1923.

168,758. PREPARED SHELLAC, VARNISHES, COLOR STAINS, POLISHING WAXES, PAINTS IN DRIED, PASTE, OR READY-MIXED CONDITION, COLORS IN OIL, PAINT ENAMELS, AND LACQUERS. SHELLAC CO. OF NEW YORK, New York, N. Y.
Filed November 29, 1922. Serial No. 172,690. PUBLISHED MARCH 13, 1923.

168,759. DENTAL STONES, LATHE WHEELS, AND ENGINE STONES. BLUE ISLAND SPECIALTY COMPANY, Blue Island, Ill.
Filed December 1, 1922. Serial No. 172,725. PUBLISHED MARCH 13, 1923.

168,760. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed December 1, 1922. Serial No. 172,754. PUBLISHED MARCH 6, 1923.

168,761. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed December 1, 1922. Serial No. 172,756. PUBLISHED FEBRUARY 13, 1923.

168,762. PIECE GOODS MADE OF COMBINATION OF SILK AND RAMIE. HENRY G. WARLAND, New York, N. Y.
Filed December 7, 1922. Serial No. 173,060. PUBLISHED MARCH 6, 1923.

168,763. CIGAR AND CIGARETTE HUMIDORS. GEORGE KARP, doing business as George Karp & Son, Long Island City, N. Y.
Filed December 8, 1922. Serial No. 173,088. PUBLISHED FEBRUARY 27, 1923.

168,764. PAINTS, WHETHER DRY, PASTE, OR READY MIXED. TITANIUM PIGMENT COMPANY, INC., Niagara Falls, N. Y.
Filed December 8, 1922. Serial No. 173,111. PUBLISHED FEBRUARY 27, 1923.

168,765. ARTICLES MADE OF TEXTILES. LAMPORT EXPORT COMPANY, INC., New York, N. Y.
Filed December 9, 1922. Serial No. 173,134. PUBLISHED MARCH 6, 1923.

168,766. CORDUROYS IN THE PIECE. JOHN S. BOYD CO. INC., Williamstown, Mass., and New York, N. Y.
Filed December 12, 1922. Serial No. 173,229. PUBLISHED MARCH 6, 1923.

168,767. LUBRICATING OILS. GILMORE PETROLEUM COMPANY, Los Angeles, Calif.
Filed December 23, 1922. Serial No. 173,764. PUBLISHED FEBRUARY 27, 1923.

168,768. LUBRICATING OILS. GILMORE PETROLEUM COMPANY, Los Angeles, Calif.
Filed December 23, 1922. Serial No. 173,765. PUBLISHED FEBRUARY 27, 1923.

168,769. CANDLES. WEST INDIA OIL COMPANY, New York, N. Y.
Filed December 23, 1922. Serial No. 173,799. PUBLISHED FEBRUARY 27, 1923.

168,770. SILK CRÊPE PIECE GOODS. ZOLLINGER AND SCHROTH, INC., New York, N. Y.
Filed December 26, 1922. Serial No. 173,869. PUBLISHED MARCH 6, 1923.

168,771. WAXES AND WAX STAINS FOR FURNITURE, WOODWORK, FLOORS, AUTOMOBILES, AND LINOLEUMS. CONTINENTAL CHEMICAL CORPORATION, Watseka, Ill.
Filed December 28, 1922. Serial No. 173,913. PUBLISHED FEBRUARY 27, 1923.

168,772. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 29, 1922. Serial No. 173,962. PUBLISHED MARCH 6, 1923.

168,773. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed December 29, 1922. Serial No. 173,966. PUBLISHED MARCH 6, 1923.

168,774. YARNS SPUN OF SILK, ARTIFICIAL SILK, AND MIXTURES THEREOF. NEW ENGLAND SPUN SILK CORPORATION, Boston and Newton Upper Falls, Mass., and New York, N. Y.; assignor to The Textile Manufacturing Co., Chester, Pa., a Corporation of Delaware.
Filed December 29, 1922. Serial No. 173,976. PUBLISHED MARCH 6, 1923.

168,775. YARNS SPUN OF SILK, ARTIFICIAL SILK, AND MIXTURES THEREOF. NEW ENGLAND SPUN SILK CORPORATION, Boston and Newton Upper Falls, Mass., and New York, N. Y.
Filed December 29, 1922. Serial No. 173,977. PUBLISHED MARCH 6, 1923.

168,776. CERTAIN NAMED ILLUMINATING GLASSWARE. GILLINDER & SONS, INC., Philadelphia, Pa.
Filed January 3, 1923. Serial No. 174,133. PUBLISHED MARCH 6, 1923.

168,777. GASOLINE. SIERRA REFINING COMPANY, Los Angeles, Calif.
Filed January 3, 1923. Serial No. 174,155. PUBLISHED FEBRUARY 27, 1923.

168,778. COCOA. STEPHEN L. BARTLETT COMPANY, Boston, Mass.
Filed May 21, 1918. Serial No. 111,076. PUBLISHED JUNE 10, 1919.

168,779. ENGINE PACKERS AND WASHERS OF ASBESTOS, GREASE, CAOUTCHOUC, AND GRAPHITE. CHEMISCHE WERKE AKTIENGESELLSCHAFT POSTLERIT-WERKE, Gross-Zschachwitz, Germany.
Filed December 28, 1918. Serial No. 114,846. PUBLISHED JANUARY 9, 1923.

168,780. SOFT DRINKS. STAR BEVERAGE CO., Belleville, Ill.
Filed June 28, 1919. Serial No. 120,072. PUBLISHED FEBRUARY 13, 1923.

168,781. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed September 9, 1919. Serial No. 122,462. PUBLISHED FEBRUARY 27, 1923.

168,782. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed September 9, 1919. Serial No. 122,463. PUBLISHED FEBRUARY 27, 1923.

168,783. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed September 10, 1919. Serial No. 122,512. PUBLISHED FEBRUARY 27, 1923.

168,784. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed September 10, 1919. Serial No. 122,515. PUBLISHED FEBRUARY 27, 1923.

168,785. BROOMS. WINFIELD F. COX, Burgin, Ky.
Filed September 20, 1919. Serial No. 122,932. PUBLISHED FEBRUARY 13, 1923.

168,786. LEATHER, CANVAS, AND FABRIC BOOTS, SHOES, AND SLIPPERS, KIMONOS, AND NEGLIGEES. KARL M. STONE, doing business as K. M. Stone Importing Co., New York, N. Y.
Filed October 17, 1919. Serial No. 123,911. PUBLISHED APRIL 27, 1920.

168,787. LADIES' COSTUMES AND SKIRTS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed October 21, 1919. Serial No. 124,042. PUBLISHED FEBRUARY 20, 1923.

168,788. CHILDREN'S UNDERGARMENTS. THE KAYNEE COMPANY, Cleveland, Ohio.
Filed December 18, 1919. Serial No. 126,220. PUBLISHED FEBRUARY 13, 1923.

168,789. TOILET PREPARATIONS, AND MORE PARTICULARLY FACE POWDER, ROUGE, TALCUM POWDER, BLEMISH BLEACH, AND COLD CREAM. THE PARIS TOILET COMPANY, Paris, Tenn.
Filed March 22, 1920. Serial No. 130,056. PUBLISHED DECEMBER 28, 1920.

168,790. PNEUMATIC AND SOLID VEHICLE TIRES MADE FROM RUBBER, FABRIC, AND LEATHER; INNER TUBES, PATCHES, TIRE COVERS, AND TIRE RELINERS. ALBERT L. HUNT, Peoria, Ill.
Filed April 16, 1920. Serial No. 131,214. PUBLISHED JUNE 20, 1922.

168,791. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed May 6, 1920. Serial No. 132,074. PUBLISHED MARCH 6, 1923.

168,792. CERTAIN ARTICLES OF CLOTHING. S. AUGSTEIN & Co., New York, N. Y.
Filed July 9, 1920. Serial No. 134,741. PUBLISHED FEBRUARY 8, 1921.

168,793. LEATHER BELTING AND LEATHER PACKING. CHAS. A. SCHIEREN COMPANY, New York, N. Y.
Filed November 16, 1920. Serial No. 139,723. PUBLISHED FEBRUARY 13, 1923.

168,794. CANDY. CHARTER CHOCOLATE COMPANY, Boston, Mass.
Filed December 28, 1920. Serial No. 141,557. PUBLISHED MARCH 6, 1923.

168,795. VARNISHES, LACQUERS, PAINT OILS, WOOD-CONSERVING SUBSTANCES IN THE NATURE OF PAINT; DRY, READY-MIXED, AND PASTE PAINTS. TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany.
Filed January 10, 1921. Serial No. 142,043. PUBLISHED SEPTEMBER 26, 1922.

168,796. HOSPITAL SUNDRIES—NAMELY, HOT-WATER BOTTLES, ICE CAPS, RUBBER GLOVES. HENRY L. KAUFMANN, Boston, Mass.
Filed January 17, 1921. Serial No. 142,345. PUBLISHED DECEMBER 19, 1922.

168,797. EVAPORATED MILK. THE NATIONAL DAIRY COMPANY, Toledo, Ohio.
Filed January 31, 1921. Serial No. 142,994. PUBLISHED MARCH 6, 1923.

168,798. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,941. PUBLISHED MARCH 13, 1923.

168,799. PETROLEUM AND PRODUCTS OF PETROLEUM, WITH OR WITHOUT ADMIXTURES OF OTHER MATERIALS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,935. PUBLISHED MARCH 13, 1923.

168,800. SANITARY NAPKINS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed January 19, 1923. Serial No. 174,795. PUBLISHED MARCH 13, 1923.

168,801. SILK AND SILK AND COTTON VELVETS IN THE PIECE. COUDURIER FRUCTUS & DESCHER, Lyon, France, and New York, N. Y.
Filed January 9, 1923. Serial No. 174,357. PUBLISHED MARCH 6, 1923.

168,802. CALCIMINE. THE REARDON COMPANY, St. Louis, Mo.
Filed January 5, 1923. Serial No. 174,214. PUBLISHED FEBRUARY 27, 1923.

168,803. LUBRICATING OILS. SHELL COMPANY OF CALIFORNIA, San Francisco, Calif.
Filed January 4, 1923. Serial No. 174,186. PUBLISHED MARCH 13, 1923.

168,804. HAMS, BACON, LARD, AND SAUSAGE. GREENWALD PACKING COMPANY, Baltimore, Md.
Filed December 27, 1921. Serial No. 157,150. PUBLISHED MARCH 6, 1923.

168,805. PAPER CUT-OUTS FOR CHILDREN. HORTON STUDIOS, INC., Cleveland, Ohio.
Filed December 22, 1921. Serial No. 157,034. PUBLISHED FEBRUARY 20, 1923.

168,806. RADIO TELEGRAPH AND TELEPHONE APPARATUS AND APPLIANCES. CHAS. M. KEMPER, doing business as Radio Products Company, Westport, Conn.
Filed September 25, 1922. Serial No. 169,909. PUBLISHED FEBRUARY 20, 1923.

168,807. OUTFIT PACKAGE CONTAINING A PIECE OF SOAP AND A TOWEL. WARREN SOAP MANUFACTURING COMPANY, Boston, Mass.
Filed September 25, 1922. Serial No. 169,939. PUBLISHED FEBRUARY 13, 1923.

168,808. CHEMICAL COMPOSITION TO ASSIST IN THE VULCANIZING OF RUBBER. THE VUL KO CENE CO., Kent, Ohio.
Filed September 25, 1922. Serial No. 169,940. PUBLISHED FEBRUARY 13, 1923.

168,809. TALCUM POWDER. MERCK & CO., New York, N. Y.
Filed September 27, 1922. Serial No. 169,980. PUBLISHED FEBRUARY 13, 1923.

168,810. TEETHING RINGS AND COMBINED BABY RATTLES AND TEETHING RINGS. LOUIS SAMETZ, INC., Brooklyn, N. Y.
Filed September 27, 1922. Serial No. 169,986. PUBLISHED FEBRUARY 13, 1923.

168,811. PIPE COVERING. PREPARED ASBESTOS ROOFING, ASBESTOS PAPER, AND ASBESTOS MILLBOARD. JOHNS-MANVILLE INCORPORATED, New York, N. Y.
Filed September 28, 1922. Serial No. 170,025. PUBLISHED JANUARY 9, 1923.

168,812. CANNED FRUITS. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed September 28, 1922. Serial No. 170,036. PUBLISHED MARCH 13, 1923.

168,813. CANNED SHRIMP AND OYSTERS. SEA FOOD CO., Biloxi, Miss.
Filed September 28, 1922. Serial No. 170,040. PUBLISHED MARCH 13, 1923.

168,814. PERFUME EXTRACT, TOILET WATER, CLEANSING AND VANISHING CREAM. UNITED DRUG COMPANY, Boston, Mass.
Filed September 28, 1922. Serial No. 170,049. PUBLISHED FEBRUARY 13, 1923.

168,815. TOILET PAPER. BEAVER PAPER COMPANY, Chicago, Ill.
Filed September 20, 1922. Serial No. 170,050. PUBLISHED NOVEMBER 14, 1922.

168,816. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, FACE LOTION, FACE CREAM, AND ROUGE. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,083. PUBLISHED FEBRUARY 13, 1923.

168,817. READY-MIXED PAINT. WILLIAM B. ROBESON, Port Huron, Mich.
Filed September 29, 1922. Serial No. 170,089. PUBLISHED FEBRUARY 27, 1923.

168,818. FRESH POTATOES. TWIN FALLS COUNTY POTATO GROWERS INC., Twin Falls, Idaho.
Filed September 29, 1922. Serial No. 170,103. PUBLISHED MARCH 13, 1923.

168,819. CASINGS AND TUBES OF PNEUMATIC TIRES. ALADDIN TIRE CORPORATION, Rutherford, N. J.
Filed September 30, 1922. Serial No. 170,109. PUBLISHED FEBRUARY 13, 1923.

168,820. PALLIATIVE FOR RHEUMATISM, ITCHINGS, SKIN DISEASES, POISONING, AND WOUNDS. FRANK GRADISAR, Ely, Minn.
Filed September 30, 1922. Serial No. 170,134. PUBLISHED FEBRUARY 20, 1923.

168,821. CANDY. PALMER CANDY CO., Sioux City, Iowa.
Filed September 30, 1922. Serial No. 170,152. PUBLISHED MARCH 13, 1923.

168,822. MEDICINAL PREPARATION USED AS A PHYSIC. EDWARD E. HETHCOCK, Santa Ana, Calif.
Filed October 2, 1922. Serial No. 170,191. PUBLISHED FEBRUARY 20, 1923.

168,823. MEN'S CAPS, STRAW HATS, FELT HATS, AND DERBIES. SARNOFF-IRVING HAT STORES, INC., New York, N. Y.
Filed October 2, 1922. Serial No. 170,221. PUBLISHED JANUARY 30, 1923.

168,824. TOILET ARTICLES COMPRISING KNIVES AND SCISSORS FOR USE AS MANICURE IMPLEMENTS, NAIL POLISHERS, FILES. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,236. PUBLISHED FEBRUARY 13, 1923.

168,825. BOXES AND CONTAINERS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,237. PUBLISHED MARCH 13, 1923.

168,826. CHOCOLATES AND CANDIES. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y.
Filed October 6, 1922. Serial No. 170,386. PUBLISHED MARCH 13, 1923.

168,827. GASOLINE. MUTUAL REFINING COMPANY, Los Angeles, Calif.
Filed October 7, 1922. Serial No. 170,446. PUBLISHED FEBRUARY 13, 1923.

168,828. COFFEE. THE G. B. FARRINGTON CO., New York, N. Y.
Filed October 9, 1922. Serial No. 170,479. PUBLISHED MARCH 13, 1923.

168,829. PLOWS, PLOWSHARES, MOLDBOARDS, PLOWPOINTS, LANDSIDES, PLOW STANDARDS, PLOW BEAMS, AND PLOW HANDLES. THE BUCHER & GIBBS PLOW COMPANY, Canton, Ohio.
Filed October 9, 1922. Serial No. 170,472. PUBLISHED JANUARY 9, 1923.

168,830. LAXATIVES AND CATHARTICS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed October 9, 1922. Serial No. 170,503. PUBLISHED FEBRUARY 13, 1923.

168,831. NAIL EMOLLIENT OR POLISH. VIRGINIA C. B. LAMBERT, doing business as Ozark Chemical Co., Arcadia, Mo.
Filed October 9, 1922. Serial No. 170,493. PUBLISHED FEBRUARY 13, 1923.

168,832. ANTISEPTIC AND ASTRINGENT POWDER. MORRIS COHEN, doing business as Morico Manufacturing Company, New York, N. Y.
Filed October 10, 1922. Serial No. 170,519. PUBLISHED FEBRUARY 13, 1923.

168,833. ODORIFEROUS PRODUCTS SUITABLE FOR USE IN THE PRODUCTION OF SOAPS AND PERFUMES. MORANA, INCORPORATED, doing business as Compagnie Morana, New York, N. Y.
Filed October 10, 1922. Serial No. 170,533. PUBLISHED FEBRUARY 13, 1923.

168,834. HAIR SHAMPOO, DANDRUFF REMOVER, HAIR TONIC, AND SCALP CLEANSER. SECURITY DRUG CO., Alameda, Calif.
Filed October 10, 1922. Serial No. 170,550. PUBLISHED FEBRUARY 13, 1923.

168,835. ANTISEPTIC AND HEALING OINTMENT. EIMER & AMEND, New York, N. Y.
Filed October 11, 1922. Serial No. 170,569. PUBLISHED FEBRUARY 13, 1923.

168,836. INSECTICIDE. MERCK & Co., New York, N. Y.
Filed October 11, 1922. Serial No. 170,590. PUBLISHED FEBRUARY 13, 1923.

168,837. NATURAL MEDICATED MINERAL. MINERAL-TONE COMPANY, Calhoun, Ga.
Filed October 12, 1922. Serial No. 170,660. PUBLISHED FEBRUARY 13, 1923.

168,838. CORDS, TWINES, ROPES, AND LINES. GRANITE CORDAGE COMPANY, Granite Falls and Hickory, N. C.
Filed October 13, 1922. Serial No. 170,682. PUBLISHED FEBRUARY 13, 1923.

168,839. HAIR SAVER AND HAIR DARKENER. ALFRED T. SILENE, Cambridge, Minn.
Filed October 13, 1922. Serial No. 170,697. PUBLISHED FEBRUARY 13, 1923.

168,840. HOLDERS OR CABINETS FOR HOLDING PAPER BAGS AND DISPENSING THEM AS REQUIRED. AMERICAN RACK COMPANY, INC., Washington, D. C.
Filed October 16, 1922. Serial No. 170,747. PUBLISHED FEBRUARY 27, 1923.

168,841. PLANERS. THE CINCINNATI PLANER COMPANY, Cincinnati, Ohio.
Filed October 16, 1922. Serial No. 170,752. PUBLISHED FEBRUARY 27, 1923.

168,842. SALTS IN SOLID FORM FOR METAL HEAT-TREATING BATHS. THE BELLIS HEAT TREATING COMPANY, New Haven, Conn.
Filed October 16, 1922. Serial No. 170,749. PUBLISHED FEBRUARY 13, 1923.

168,843. HAIR TONICS. GOLDEN RAY MANUFACTURING CO., Philadelphia, Pa.
Filed October 17, 1922. Serial No. 170,816. PUBLISHED FEBRUARY 13, 1923.

168,844. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. THE CHIEF TWO MOON HERB COMPANY, Waterbury, Conn.
Filed October 18, 1922. Serial No. 170,868. PUBLISHED FEBRUARY 13, 1923.

168,845. PROPHYLACTIC OINTMENT. WILLIAM S. HUGHES, doing business as The Pre Ven Shun Laboratories, Kansas City, Mo.
Filed October 18, 1922. Serial No. 170,885. PUBLISHED FEBRUARY 13, 1923.

168,846. LUBRICATING OILS AND LUBRICANTS. B. G. DESMOND MANUFACTURING CORPORATION, New York, N. Y.
Filed December 8, 1922. Serial No. 173,074. PUBLISHED MARCH 27, 1923.

168,847. PETTICOAT UNDERDRAWER. ANNA L. VILANDER, New York, N. Y.
Filed January 22, 1923. Serial No. 174,949. PUBLISHED MARCH 13, 1923.

168,848. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed January 9, 1923. Serial No. 174,375. PUBLISHED MARCH 6, 1923.

168,849. COTTON GOODS IN THE PIECE. DAVID SCHWARTZ COMPANY, INC., New York, N. Y.
Filed January 8, 1923. Serial No. 174,341. PUBLISHED MARCH 6, 1923.

168,850. COTTON PIECE GOODS. KLAUBER BROS. & CO., New York, N. Y.
Filed January 6, 1923. Serial No. 174,246. PUBLISHED MARCH 6, 1923.

168,851. PAPER USED FOR PRINTING, WRITING, BOOKKEEPING, AND TYPEWRITING AND MAILING ENVELOPES. POLAND PAPER COMPANY, Mechanic Falls, Me.
Filed January 2, 1923. Serial No. 174,099. PUBLISHED MARCH 6, 1923.

168,852. SHADOW-STRIPE COTTON SATEEN IN THE PIECE. BEDFORD MILLS, INC., New York, N. Y.
Filed January 2, 1923. Serial No. 174,059. PUBLISHED MARCH 6, 1923.

168,853. WRITING TABLETS. THE REYNOLDS & REYNOLDS CO., Dayton, Ohio.
Filed December 26, 1922. Serial No. 173,855. PUBLISHED MARCH 6, 1923.

168,854. PURE AND ARTIFICIAL SILK THREADS. THE H. K. H. SILK CO., Watertown, Conn.
Filed December 23, 1922. Serial No. 173,766. PUBLISHED MARCH 6, 1923.

168,855. PENCILS. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y.
Filed December 23, 1922. Serial No. 173,760. PUBLISHED MARCH 6, 1923.

168,856. KRAFT PAPER FOR WRAPPING PURPOSES. THE DUDLEY PAPER CO., Lansing, Mich.
Filed December 20, 1922. Serial No. 173,594. PUBLISHED MARCH 6, 1923.

168,857. REFRIGERATORS. AMERICAN RANGE & FOUNDRY COMPANY, Minneapolis, Minn.
Filed December 19, 1922. Serial No. 173,549. PUBLISHED MARCH 6, 1923.

168,858. FOUNTAIN PENS. SALZ BROS. INC., New York, N. Y.
Filed December 12, 1922. Serial No. 173,249. PUBLISHED MARCH 6, 1923.

168,859. PRINTING, WRAPPING, WRITING, AND LABEL PAPER; ENVELOPES, AND LEAD PENCILS. TENNESSEE PAPER & BAG CO., Memphis, Tenn.
Filed December 8, 1922. Serial No. 173,109. PUBLISHED MARCH 13, 1923.

168,860. PRINTING, WRAPPING, WRITING, AND LABEL PAPER; ENVELOPES, AND LEAD PENCILS. TENNESSEE PAPER & BAG CO., Memphis, Tenn.
Filed December 8, 1922. Serial No. 173,108. PUBLISHED MARCH 13, 1923.

168,861. PRINTING, WRAPPING, WRITING, AND LABEL PAPER; ENVELOPES, AND LEAD PENCILS. TENNESSEE PAPER & BAG CO., Memphis, Tenn.
Filed December 1, 1922. Serial No. 172,809. PUBLISHED MARCH 13, 1923.

168,862. LIVE CATTLE OF STOCK FARMS. CARNATION STOCK FARMS, Seattle, Wash.
Filed December 1, 1922. Serial No. 172,795. PUBLISHED MARCH 13, 1923.

168,863. PENS, PENCILS, PAPER TAGS, PIN-TICKETS, TABLETS, PENHOLDERS, ERASERS, RUBBER BANDS, GUM LABELS. CALHOUN, ROBBINS & CO., New York, N. Y.
Filed November 18, 1922. Serial No. 172,206. PUBLISHED MARCH 6, 1923.

168,864. CLEANING FLUIDS—NAMELY, THOSE ADAPTED FOR SHOES. DAVAD H. WEINSTEIN, Miami, Fla.
Filed November 16, 1922. Serial No. 172,138. PUBLISHED MARCH 6, 1923.

168,865. WASHING FLUID. FLUID CHEMICAL COMPANY, Newark, N. J.
Filed July 12, 1922. Serial No. 166,794. PUBLISHED MARCH 6, 1923.

168,866. DRY, READY-MIXED, AND PASTE PAINTS; PAINT ENAMELS, AND PAINT OILS. MOUND CITY PAINT & COLOR COMPANY, St. Louis, Mo.
Filed November 17, 1922. Serial No. 172,170. PUBLISHED MARCH 13, 1923.

168,867. PENS, PENHOLDERS, FOUNTAIN PENS. KABUSHIKI-KAISHA NAMIKI SEISAKUJO, Tokyo, Japan.
Filed October 30, 1922. Serial No. 171,368. PUBLISHED MARCH 13, 1923.

168,868. WRITING PAPER. DERRYVALE LINEN CO., INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,265. PUBLISHED MARCH 6, 1923.

168,869. LINEN AND COTTON PIECE GOODS. DERRYVALE LINEN CO., INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,261. PUBLISHED MARCH 13, 1923.

168,870. SILK PIECE GOODS. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed October 12, 1922. Serial No. 170,047. PUBLISHED MARCH 13, 1923.

168,871. CHOCOLATE CANDIES. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y.
Filed October 6, 1922. Serial No. 170,382. PUBLISHED MARCH 13, 1923.

168,872. CHOCOLATES AND CANDIES. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y.
Filed October 6, 1922. Serial No. 170,378. PUBLISHED MARCH 13, 1923.

168,873. FERMENTED CIDER VINEGAR. MONROE CIDER VINEGAR & FRUIT CO., Rochester, N. Y.
Filed September 30, 1922. Serial No. 170,149. PUBLISHED MARCH 13, 1923.

168,874. CHOCOLATES AND CANDIES. PAUL GELPI & SONS, INC., New Orleans, La.
Filed September 30, 1922. Serial No. 170,135. PUBLISHED MARCH 13, 1923.

168,875. CANNED CLAMS. K. C. B. CANNERY, INC., Seattle, Wash.
Filed September 29, 1922. Serial No. 170,067. PUBLISHED MARCH 13, 1923.

168,876. CANNED SHRIMP AND OYSTERS. SEA FOOD CO., Biloxi, Miss.
Filed September 28, 1922. Serial No. 170,041. PUBLISHED MARCH 13, 1923.

168,877. COFFEE; CANNED VEGETABLES, FRUITS, AND FISH, AND EVAPORATED MILK. THE AMOS-JAMES GROCER CO., St. Louis, Mo.
Filed September 28, 1922. Serial No. 169,997. PUBLISHED MARCH 13, 1923.

168,878. FRESH CITROUS FRUITS. CHAS. C. OYLER & SON, Cincinnati, Ohio.
Filed September 23, 1922. Serial No. 169,863. PUBLISHED MARCH 13, 1923.

168,879. FRESH DECIDUOUS FRUITS. IVANHOE FRUIT ASSOCIATION, Klink, Calif.
Filed September 11, 1922. Serial No. 169,304. PUBLISHED MARCH 6, 1923.

168,880. TOMATO SAUCE. EDSON BROS., Philadelphia, Pa.
Filed September 9, 1922. Serial No. 169,239. PUBLISHED MARCH 6, 1923.

168,881. BINDERS IN THE NATURE OF BOOK-BINDERS FOR PHOTOGRAPH CARDS AND OTHER LOOSE LEAVES. FALES FOLIO COMPANY, Foxboro, Mass.
Filed August 14, 1922. Serial No. 168,211. PUBLISHED MARCH 13, 1923.

168,882. MINERAL OIL FOR INSULATING AND COOLING PURPOSES. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed August 8, 1922. Serial No. 167,963. PUBLISHED MARCH 13, 1923.

168,883. LOAN SOCIETIES' BOOKKEEPING RECORD AND CORRESPONDENCE BLANK FORMS. HAWKINS MORTGAGE CO., Portland, Ind.
Filed July 26, 1922. Serial No. 167,396. PUBLISHED MARCH 13, 1923.

168,884. FRESH CITROUS FRUITS AND FRESH TOMATOES, CELERY, LETTUCE, PEPPERS, AND EGGPLANT. MANATEE FRUIT CO., Palmetto, Fla.
Filed July 21, 1922. Serial No. 167,183. PUBLISHED MARCH 6, 1923.

168,885. WILTON AND PLUSH CARPETS. M. J. WHITTALL ASSOCIATES, Worcester, Mass.
Filed July 18, 1922. Serial No. 167,063. PUBLISHED MARCH 13, 1923.

168,886. METALS AND ALLOYS FOR USE IN JEWELRY AND JEWELERS' WARES. MARRET, BONNIN, LEBEL ET GUIEU, Paris, France.
Filed October 4, 1922. Serial No. 170,301. PUBLISHED MARCH 13, 1923.

168,887. CERTAIN NAMED NEEDLES. JULIAN ROBERTS, New York, N. Y.
Filed October 3, 1922. Serial No. 170,257. PUBLISHED FEBRUARY 27, 1923.

168,888. TOILET BRUSHES. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,240. PUBLISHED MARCH 13, 1923.

168,889. HAIR COMBS; SHOE HORNS, BUTTON-HOOKS, EXCEPT PRECIOUS METAL, AND PIN-CUSHIONS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,238. PUBLISHED MARCH 13, 1923.

168,890. WANT-ADD DIRECTORY, A DAILY PUBLICATION FORMING A SECTION OF A NEWSPAPER. THE HOUSTON CHRONICLE PUBLISHING COMPANY, Houston, Tex.
Filed September 19, 1922. Serial No. 169,676. PUBLISHED FEBRUARY 27, 1923.

168,891. HANDLED AXES, HATCHETS, HAMMERS, SCREW DRIVERS, AND CHISELS. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed September 15, 1922. Serial No. 169,512. PUBLISHED MARCH 6, 1923.

168,892. CUTLERY—VIZ, RAZORS. ARROWHEAD TRADING CORPORATION, New York, N. Y.
Filed September 15, 1922. Serial No. 169,471. PUBLISHED MARCH 6, 1923.

168,893. QUARTERLY REVIEW. COUNCIL ON FOREIGN RELATIONS, INC., New York, N. Y.
Filed September 12, 1922. Serial No. 169,348. PUBLISHED MARCH 6, 1923.

168,894. STOVE POLISH. MARIAN REEL, Canaan, Conn.
Filed August 28, 1922. Serial No. 168,789. PUBLISHED FEBRUARY 27, 1923.

168,895. MONTHLY PUBLICATION. SUCCESSFUL FARMING PUBLISHING CO., Des Moines, Iowa.
Filed August 18, 1922. Serial No. 168,436. PUBLISHED FEBRUARY 27, 1923.

168,896. TOILET SOAP. THE CUDAHY PACKING COMPANY, doing business as Cudahy Soap Works, Chicago, Ill., and South Omaha, Nebr.
Filed August 12, 1922. Serial No. 168,146. PUBLISHED FEBRUARY 27, 1923.

168,897. SELF-RISING FLOUR. NOBLESVILLE MILLING CO., Noblesville, Ind.
Filed August 2, 1922. Serial No. 167,731. PUBLISHED JANUARY 30, 1923.

168,898. DROP-FORGED STEEL VALVES AND FITTINGS. HENRY VOGT MACHINE CO., Louisville, Ky.
Filed July 29, 1922. Serial No. 167,500. PUBLISHED MARCH 13, 1923.

168,899. LIVING-ROOM, HALL, DINING-ROOM, AND BEDROOM FURNITURE. THE CRON COMPANY, Piqua, Ohio.
Filed July 18, 1922. Serial No. 167,041. PUBLISHED FEBRUARY 27, 1923.

168,900. SOAP. NORTHERN JOBBING COMPANY, Chicago, Ill.
Filed July 14, 1922. Serial No. 166,900. PUBLISHED FEBRUARY 27, 1923.

168,901. AGRICULTURAL JOURNAL ISSUED WEEKLY. THE CURTIS PUBLISHING COMPANY, Philadelphia, Pa.
Filed July 10, 1922. Serial No. 166,651. PUBLISHED FEBRUARY 27, 1923.

168,902. RAZORS, KNIVES, SHEARS, AND TOOLS. WM. LANGBEIN & BROS., New York, N. Y.
Filed July 6, 1922. Serial No. 166,528. PUBLISHED MARCH 6, 1923.

168,903. CARD PINS, T PINS, AND BANK PINS. GUILD PRODUCTS CORPORATION, Philadelphia, Pa.
Filed June 15, 1922. Serial No. 165,543. PUBLISHED MARCH 13, 1923.

168,904. DRESS SHIELDS. A. STEIN & COMPANY, Chicago, Ill.
Filed June 6, 1922. Serial No. 165,095. PUBLISHED FEBRUARY 27, 1923.

168,905. RAZORS, HAIR-CLIPPERS, SAFETY RAZORS, HAIR SCISSORS, TABLE KNIVES AND FORKS OF BASE METAL. MAX DÖRNER G. m. b. H., Stahlwarenfabrik, Solingen, Germany.
Filed June 2, 1922. Serial No. 164,803. PUBLISHED MARCH 6, 1923.

168,906. WINES. ELADIO SAUZA, New York, N. Y.
Filed May 5, 1922. Serial No. 163,417. PUBLISHED MARCH 13, 1923.

168,907. SOAP. LE BLUME IMPORT CO., INC., New York, N. Y.
Filed May 4, 1922. Serial No. 163,313. PUBLISHED MARCH 6, 1923.

168,908. NONSKID CHAINS, HOOKS, AND PARTS THEREFOR. NEWHALL CHAIN FORGE & IRON CO., New York, N. Y.
Filed March 18, 1922. Serial No. 160,897. PUBLISHED MARCH 6, 1923.

168,909. CERTAIN NAMED NOTIONS. ZALES BROS., New York, N. Y.
Filed March 6, 1922. Serial No. 160,270. PUBLISHED FEBRUARY 27, 1923.

168,910. HOUSEHOLD TABLES. SIDNEY Y. SULLIVAN, Newark, N. J.
Filed February 13, 1922. Serial No. 159,292. PUBLISHED MARCH 6, 1923.

168,911. RAZOR STROPS. STREVELL-PATERSON HARDWARE CO., Salt Lake City, Utah.
Filed January 3, 1922. Serial No. 157,450. PUBLISHED FEBRUARY 27, 1923.

168,912. CRIB BEDS. KIDDIE-TOWN PRODUCTS, INC., Seneca Falls, N. Y.
Filed November 29, 1921. Serial No. 156,067. PUBLISHED FEBRUARY 27, 1923.

168,913. SOAP. THE SOAP MANUFACTURING COMPANY, Jacksonville, Fla.
Filed November 28, 1921. Serial No. 156,026. PUBLISHED MARCH 13, 1923.

168,914. CERTAIN NAMED SOAPS AND CLEANING PREPARATIONS. MINERAL SOAP MANUFACTURING COMPANY, Lowell, Mass.
Filed November 22, 1921. Serial No. 155,764. PUBLISHED MARCH 6, 1923.

168,915. MACHINES FOR DISPENSING BEVERAGES AND THE LIKE. RICHMOND BEVERAGE MACHINE CORPORATION, Richmond, Va.
Filed November 19, 1921. Serial No. 155,640. PUBLISHED MARCH 6, 1923.

168,916. BINDINGS, BRAID, GALLONS, TAPE, TRIMMINGS, BOOT AND CORSET LACES. JAMES NELSON, LTD., Nelson, England.
Filed October 19, 1921. Serial No. 154,321. PUBLISHED MARCH 6, 1923.

168,917. MANUAL HOLDER FOR RAZOR BLADES. THE GREIST MFG. COMPANY, New Haven, Conn.
Filed September 9, 1921. Serial No. 152,748. PUBLISHED MARCH 6, 1923.

168,918. PRINTED MATTER SOLD TO THE TRADE AS SUCH. FREDERICK M. BERKLEY, New York, N. Y.
Filed August 1, 1921. Serial No. 151,198. PUBLISHED FEBRUARY 27, 1923.

168,919. PRINTED ADVERTISING MATTER SOLD TO THE TRADE AS SUCH. FREDERICK M. BERKLEY, New York, N. Y.
Filed August 1, 1921. Serial No. 151,197. PUBLISHED FEBRUARY 27, 1923.

168,920. CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. FIAT, Turin, Italy.
Filed July 21, 1921. Serial No. 150,742. PUBLISHED MARCH 6, 1923.

168,921. MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed May 24, 1921. Serial No. 148,156. PUBLISHED MARCH 13, 1923.

168,922. ELASTIC WEBS. GEO. S. COLTON ELASTIC WEB CO., Easthampton, Mass.
Filed March 16, 1921. Serial No. 144,801. PUBLISHED MARCH 13, 1923.

168,923. PNEUMATIC-TUBE CARRIER SYSTEMS AND PARTS THEREOF. THE STANDARD CARRIER COMPANY, New York, N. Y.
Filed February 17, 1921. Serial No. 143,711. PUBLISHED MARCH 13, 1923.

168,924. CRACKERS OR BISCUITS. PENNSYLVANIA BAKING COMPANY, Scranton, Pa.
Filed September 25, 1919. Serial No. 123,139. PUBLISHED OCTOBER 5, 1920.

168,925. A SECTION OF A DAILY PUBLICATION. RALPH FORD COUCH, Washington, D. C.
Filed February 5, 1923. Serial No. 175,545. PUBLISHED MARCH 27, 1923.

168,926. TOY BANKS. THE THRIFT SELLING SERVICE CO., Columbus, Ohio.
Filed January 11, 1923. Serial No. 174,496. PUBLISHED MARCH 13, 1923.

168,927. HAIR CURLERS, HAIR WAVERS, HAIR CRIMPERS, AND HAIR PUFFS. LOUIS M. O'CONNELL, doing business as L. M. O'Connell & Co., Boston, Mass.
Filed January 2, 1923. Serial No. 174,098. PUBLISHED MARCH 13, 1923.

168,928. SMOKING, CHEWING, AND LEAF TOBACCO. JOHN H. COOPER, Stoucksburg, Pa.
Filed December 28, 1922. Serial No. 173,914. PUBLISHED MARCH 13, 1923.

168,929. DOLL HOUSES, DOLL FURNITURE. GEORGE A. STETSON, doing business as The Elastic Tip Co., Boston, Mass.
Filed December 23, 1922. Serial No. 173,791. PUBLISHED MARCH 13, 1923.

168,930. SOFT DRINK. WILL G. KECK, Kecksburg, Pa.
Filed December 23, 1922. Serial No. 173,770. PUBLISHED MARCH 13, 1923.

168,931. SOFT DRINK. CORNING ICE & BOTTLING WORKS, Corning, Calif.
Filed December 21, 1922. Serial No. 173,624. PUBLISHED MARCH 13, 1923.

168,932. A DOLL. SIMONNE BOUVET, New York, N. Y.
Filed December 14, 1922. Serial No. 173,319. PUBLISHED MARCH 13, 1923.

168,933. AUTOMOBILE SOAP. HARRY R. NICHOLSON, doing business as H. R. Nicholson Company, Baltimore, Md.
Filed December 13, 1922. Serial No. 173,292. PUBLISHED MARCH 13, 1923.

168,934. HAIR GOODS—NAMELY, TRANSFORMATIONS AND POMPADOURS. HYMAN & OPPENHEIM, New York, N. Y.
Filed December 13, 1922. Serial No. 173,287. PUBLISHED MARCH 13, 1923.

168,935. HAIR GOODS—NAMELY, TRANSFORMATIONS AND POMPADOURS. HYMAN & OPPENHEIM, New York, N. Y.
Filed December 13, 1922. Serial No. 173,286. PUBLISHED MARCH 13, 1923.

168,936. SIRUPS FOR SOFT DRINKS. WALKER BROS. CO., Boston, Mass.
Filed December 12, 1922. Serial No. 173,262. PUBLISHED MARCH 13, 1923.

168,937. TRACTORS, TRACTION ENGINES, HARVESTERS, COMBINED HARVESTERS, PLOWING AND HARROWING OUTFITS. THE HOLT MANUFACTURING COMPANY, Stockton, Calif.
Filed December 12, 1922. Serial No. 173,234. PUBLISHED MARCH 6, 1923.

168,938. STEEL WOOL FOR CLEANING AND POLISHING PURPOSES. BRILLO MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed December 8, 1922. Serial No. 173,070. PUBLISHED MARCH 6, 1923.

168,939. SNAP FASTENERS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed December 5, 1922. Serial No. 172,961. PUBLISHED MARCH 13, 1923.

168,940. GASOLINE-PURIFYING INSTRUMENTALITIES FOR EXPLOSION MOTORS. DEEKS MOTOR PRODUCTS, INCORPORATED, Pittston, Pa.
Filed December 4, 1922. Serial No. 172,866. PUBLISHED MARCH 6, 1923.

168,941. SOFT DRINK. CALVIN L. BEARDSLEY, doing business as Beardsley Specialty Co., Rock Island, Ill.
Filed December 4, 1922. Serial No. 172,858. PUBLISHED MARCH 13, 1923.

168,942. ABRASIVE PAPERS AND CLOTH. HERMAN BEHR & COMPANY, INCORPORATED, Brooklyn, N. Y.
Filed December 2, 1922. Serial No. 172,824. PUBLISHED FEBRUARY 27, 1923.

168,943. CERTAIN NAMED HARDWARE. THE STANLEY WORKS, New Britain, Conn.
Filed November 29, 1922. Serial No. 172,693. PUBLISHED MARCH 6, 1923.

168,944. STEAM-PRESSURE COOKER. HENRY A. POPPERT & SON COMPANY, Milwaukee, Wis.
Filed November 29, 1922. Serial No. 172,686. PUBLISHED MARCH 6, 1923.

168,945. CERTAIN NAMED VALVES. THE D. T. WILLIAMS VALVE COMPANY, Cincinnati, Ohio.
Filed November 25, 1922. Serial No. 172,568. PUBLISHED MARCH 6, 1923.

168,946. CERTAIN NAMED VALVES. THE D. T. WILLIAMS VALVE COMPANY, Cincinnati, Ohio.
Filed November 25, 1922. Serial No. 172,567. PUBLISHED MARCH 6, 1923.

168,947. CERTAIN NAMED HARDWARE. THE STANLEY WORKS, New Britain, Conn.
Filed November 25, 1922. Serial No. 172,563. PUBLISHED MARCH 6, 1923.

168,948. SOFT DRINKS. CHOCOLATE BEVERAGES CORPORATION, New York, N. Y.
Filed November 25, 1922. Serial No. 172,514. PUBLISHED MARCH 13, 1923.

168,949. SOFT DRINKS. A. LAW VOGE, doing business as Egoval Chemical Co., New York, N. Y.
Filed November 22, 1922. Serial No. 172,405. PUBLISHED MARCH 13, 1923.

168,950. NONFERROUS METAL ALLOY. DANIEL D. STRITE, South Norwalk, Conn.
Filed November 22, 1922. Serial No. 172,403. PUBLISHED MARCH 6, 1923.

168,951. SOAP. YOUNG & WILE, LTD., New York, N. Y.
Filed November 18, 1922. Serial No. 172,252. PUBLISHED MARCH 6, 1923.

168,952. MONTHLY MAGAZINE. EDWARD WRAY, Chicago, Ill.
Filed November 13, 1922. Serial No. 171,975. PUBLISHED FEBRUARY 27, 1923.

168,953. TEAKETTLES. THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa.
Filed November 17, 1922. Serial No. 172,155. PUBLISHED MARCH 6, 1923.

168,954. TOILET SOAPS. FRANK GAIUS BURKE, doing business as Manhattan Soap Company, New York, N. Y.
Filed November 7, 1922. Serial No. 171,685. PUBLISHED MARCH 6, 1923.

168,955. SOAPS. FRANK GAIUS BURKE, doing business as Manhattan Soap Company, New York, N. Y.
Filed November 7, 1922. Serial No. 171,684. PUBLISHED MARCH 6, 1923.

168,956. VALVES AND THERMOSTATIC CONTROLLING OR OPERATING MEANS AND PARTS OF SAID VALVES AND CONTROLLING OR OPERATING MEANS. THE YODER THOMAS MFG. CO., Cleveland, Ohio.
Filed November 6, 1922. Serial No. 171,678. PUBLISHED MARCH 6, 1923.

168,957. MONTHLY PUBLICATION. ALLEN T. SMITH AND GEORGE F. CASE, Los Angeles, Calif.
Filed November 6, 1922. Serial No. 171,661. PUBLISHED FEBRUARY 27, 1923.

168,958. GOLF CLUBS. THE CRAWFORD MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed November 6, 1922. Serial No. 171,614. PUBLISHED MARCH 13, 1923.

168,959. NEWSPAPER PERIODICAL PUBLISHED WEEKLY. BRONXONIAN PUBLISHING CO. INC., New York, N. Y.
Filed November 6, 1922. Serial No. 171,611. PUBLISHED FEBRUARY 27, 1923.

168,960. SOAP. THE REMMERS SOAP COMPANY, Cincinnati, Ohio.
Filed November 4, 1922. Serial No. 171,589. PUBLISHED MARCH 6, 1923.

168,961. POWER SHOVELS, DRAG-LINE EXCAVATORS, CLAMSHELL EXCAVATORS, CRANES, PILE DRIVERS, COAL LOADERS, GRADERS, DITCHERS. BUCYRUS COMPANY, South Milwaukee, Wis.
Filed November 1, 1922. Serial No. 171,443. PUBLISHED MARCH 6, 1923.

168,962. STOVE POLISHES AND METAL POLISHES. BLACK-IRON STOVE POLISH CO., Lawrence, Mass.
Filed October 27, 1922. Serial No. 171,298. PUBLISHED MARCH 13, 1923.

168,963. BELT DRESSINGS. KATE F. ROSENBERG, doing business as Conservatine Chemical Products Company, Chicago, Ill.
Filed October 27 1922. Serial No. 171,284. PUBLISHED MARCH 6, 1923.

168,964. JEWELRY-CLEANING OUTFIT. UKLEAN CO., Los Angeles, Calif.
Filed October 26, 1922. Serial No. 171,237. PUBLISHED MARCH 6, 1923.

168,965. MAGAZINES PUBLISHED QUARTERLY. NICHOLAS TSUKALAS, doing business as Self-Expression Publishing Company, Battle Creek, Mich.
Filed October 24, 1922. Serial No. 171,143. PUBLISHED FEBRUARY 27, 1923.

168,966. PERIODICAL AT PRESENT ISSUED WEEKLY. NATIONAL ASSOCIATION OF HOSIERY AND UNDERWEAR MANUFACTURERS, New York, N. Y.
Filed October 21, 1922. Serial No. 171,031. PUBLISHED FEBRUARY 27, 1923.

168,967. SCREW DRIVERS. THE H. D. SMITH & COMPANY, Plantsville, Conn.
Filed October 18, 1922. Serial No. 170,903. PUBLISHED MARCH 6, 1923.

168,968. NICKEL SHEETS, RODS, WIRE, BILLETS, SLABS, AND STRIPS. AMERICAN NICKEL CORPORATION, Clearfield, Pa.
Filed October 17, 1922. Serial No. 170,802. PUBLISHED MARCH 6, 1923.

168,969. PARLOR CHAIRS AND SOFAS. PARIS UPHOLSTERING CO., Chicago, Ill.
Filed October 13, 1922. Serial No. 170,691. PUBLISHED FEBRUARY 27, 1923.

168,970. WRENCHES OF ALL KINDS, PLIERS, HAMMERS, SCREW DRIVERS, AND CHISELS. THE HERBRAND COMPANY, Fremont, Ohio.
Filed October 12, 1922. Serial No. 170,649. PUBLISHED MARCH 6, 1923.

168,971. SOFT DRINKS. SPECIALTY SODA WATER BOTTLING COMPANY, Garfield, N. J.
Filed October 9, 1922. Serial No. 170,499. PUBLISHED MARCH 13, 1923.

168,972. ALLOYS AND METALS FOR USE IN JEWELRY AND JEWELERS' WARES. MARRET, BONNIN, LEBEL ET GUIEU, Paris, France.
Filed October 4, 1922. Serial No. 170,302. PUBLISHED MARCH 6, 1923.

168,973. TITLE OF A MONTHLY PUBLICATION IN MAGAZINE FORM. E. A. BERTRAND, Taft, Calif.
Filed February 23, 1922. Serial No. 159,684. PUBLISHED FEBRUARY 27, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

168,974. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Nov. 8, 1921. Serial No. 155,191.

ONTARIO

Particular description of goods.—Hosiery.
Claims use since Feb. 1, 1911.

168,975. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Nov. 8, 1921. Serial No. 155,192.

HURON

Particular description of goods.—Hosiery.
Claims use since Feb. 1, 1911.

168,976. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Nov. 8, 1921. Serial No. 155,193.

OHIO

Particular description of goods.—Hosiery.
Claims use since Feb. 1, 1911.

168,977. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Nov. 8, 1921. Serial No. 155,194.

TENNESSEE

Particular description of goods.—Hosiery.
Claims use since Feb. 1, 1911.

168,978. (CLASS 38. PRINTS AND PUBLICATIONS.) DEFIANCE MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 20, 1922. Serial No. 158,179.

PREMIER

Particular description of goods.—Calendars.
Claims use since Jan. 1, 1917.

168,979. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RELIANCE COAL COMPANY, Chicago, Ill. Filed Jan. 26, 1922. Serial No. 158,490.

GUARANTEED

Particular description of goods.—Coal.
Claims use since Oct. 19, 1921.

168,980. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AUTOMOTIVE TOY KRAFT COMPANY, Sacramento, Calif. Filed Jan. 28, 1922. Serial No. 158,552.

ARMCAR

Particular description of goods.—Toy Vehicles.
Claims use since Dec. 15, 1921.

168,981. (CLASS 45. BEVERAGES, NONALCOHOLIC.) OSCAR PRICE, New York, N. Y. Filed Feb. 18, 1922. Serial No. 159,531.

BALTIMORE CLUB

Particular description of goods.—Ginger Ale.
Claims use since Jan. 21, 1922.

168,982. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PEERLESS BELTING COMPANY, Gardenville, N. Y. Filed Feb. 20, 1922. Serial No. 159,606.



The lining on the belting is used to indicate the color brown. The lining on the pulley is for shading only.
Particular description of goods.—Leather and Cotton Belting.
Claims use since Feb. 1, 1921.

168,983. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,762.

HARDWEAR

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,984. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,764.

SEWANEE

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,985. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,765.

CALIFORNIA

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,986. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,651.

Hamilton

Particular description of goods.—Twill Cotton Draperies.
Claims use since August, 1910.

168,987. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE KAIN & AUNGER COMPANY, Cleveland, Ohio. Filed Jan. 28, 1921. Serial No. 142,889.

STA-RITE

Particular description of goods.—Damper Regulators.
Claims use since about November, 1910.

168,988. (CLASS 39. CLOTHING.) THE S. & S. SHIRT COMPANY, Philipsburg, Pa. Filed May 4, 1921. Serial No. 147,218.



Particular description of goods.—One-Piece Suits for Children.
Claims use since Apr. 15, 1918.

168,989. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAIRFIELD MANUFACTURING COMPANY, Providence, R. I. Filed Oct. 4, 1921. Serial No. 153,720.

KUT OR KLIP

Particular description of goods.—Pocketknives.
Claims use since April, 1918.

168,990. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN J. NESBITT, Atlantic City, N. J. Filed Oct. 11, 1921. Serial No. 153,989.

UNIVERSAL

Particular description of goods.—Air Heating, Moistening, and Ventilating Device, Including a Motor and Blower Support.
Claims use since Aug. 1, 1917.

168,991. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,758.

MINNESOTA

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,992. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,759.

CHICKAMAUGA

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,993. (CLASS 39. CLOTHING.) RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Oct. 29, 1921. Serial No. 154,761.

TALLAHASSEE

Particular description of goods.—Hosiery.
Claims use since June 1, 1911.

168,994. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SERVICE ELECTRIC MFG. & SUPPLY CO., Boston, Mass. Filed Mar. 27, 1923. Serial No. 178,138.

TURNTITE

Particular description of goods.—Canopies for Electric-Light Fixtures and Parts Thereof.
Claims use since October, 1921.

168,995. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) REFLECTOR & ILLUMINATING CO., Chicago, Ill. Filed Mar. 26, 1923. Serial No. 178,063.



Particular description of goods.—A Color Screen and Holder Attachment for Reflectors.
Claims use since Sept. 10, 1921.

168,996. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELKHART RUBBER WORKS, Elkhart, Ind. Filed Mar. 23, 1923. Serial No. 177,901.

HYDRO-PROOF

Particular description of goods.—Insulating Tape.
Claims use for more than one year.

168,997. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PATTERSON SCREEN CO., Towanda, Pa. Filed Mar. 15, 1923. Serial No. 177,512.

X-RAY
FLUOROSCOPIC SCREEN
THE PATTERSON SCREEN CO.
TOWANDA PA. U.S.A.

Particular description of goods.—X-Ray Screens.
Claims use since about Mar. 1, 1916.

168,998. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PATTERSON SCREEN CO., Towanda, Pa. Filed Mar. 15, 1923. Serial No. 177,511.

X-RAY
INTENSIFYING SCREEN
THE PATTERSON SCREEN CO.
TOWANDA PA. U.S.A.

Particular description of goods.—X-Ray Screens.
Claims use since about June 1, 1916.

168,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOLINELLI ITALIAN DINNERS, INC., Brooklyn, N. Y. Filed Mar. 8, 1923. Serial No. 177,138.

Molinelli

Particular description of goods.—Spaghetti Sauce and Dressing.
Claims use since Jan. 1, 1922.

169,000. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRIANGLE ELECTRO TRADING CO., INC., New York, N. Y. Filed Mar. 7, 1923. Serial No. 177,116.

BANNARD

Particular description of goods.—Radiotelephone Receivers and Radio Sets and Parts of Radio Sets—Namely, Crystals, Variometers, Rheostats, Transformers, Condensers, and Insulators.
Claims use since 1916.

169,001. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LESTER PIANO COMPANY, Philadelphia, Pa. Filed Mar. 6, 1923. Serial No. 177,043.

BELLAIRE

Particular description of goods.—Pianos and Player Pianos.
Claims use since April, 1920.

169,002. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE P. & M. COMPANY, Chicago, Ill. Filed Feb. 19, 1923. Serial No. 176,281.

YARDLEY

Particular description of goods.—Rail Anchors or Anticreepers.
Claims use since Aug. 20, 1910.

169,003. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE P. & M. COMPANY, Chicago, Ill. Filed Feb. 19, 1923. Serial No. 176,280.

HENGGI

Particular description of goods.—Rail Anchors or Anticreepers.
Claims use since Aug. 9, 1917.

169,004. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WRIGHT BATTERY COMPANY, Flint, Mich. Filed Feb. 17, 1923 Serial No. 176,239.

KEYSTONE
WRIGHT
STORAGE BATTERIES
GRID

Particular description of goods.—Storage Batteries.
Claims use since about February, 1920.

169,005. (CLASS 11. INKS AND INKING MATERIALS.) W. D. WILSON PRINTING INK CO. LTD., New York, N. Y. Filed Feb. 17, 1923. Serial No. 176,237.

AINSLEE BLACK

Particular description of goods.—Printing and Lithographing Inks.
Claims use since about Aug. 20, 1904.

169,006. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ECLIPSE MACHINE COMPANY, Elmira Heights, N. Y. Filed Feb. 7, 1923. Serial No. 175,654.

BENDIX

Particular description of goods.—Drives and Parts of Drives for Starters for Engines.
Claims use since January, 1914.

169,007. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRANK O. WELLS COMPANY, INC., Greenfield, Mass. Filed Feb. 6, 1923. Serial No. 175,637.

THREAD WELL

Particular description of goods.—Taps and Dies.
Claims use since Jan. 1, 1921.

169,008. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRANK O. WELLS COMPANY, INC., Greenfield, Mass. Filed Feb. 6, 1923. Serial No. 175,636.

BROACH WELL

Particular description of goods.—Broaches, Push and Pull Type.
Claims use since Jan. 1, 1921.

169,009. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRANK O. WELLS COMPANY, INC., Greenfield, Mass. Filed Feb. 6, 1923. Serial No. 175,635.

CUT WELL

Particular description of goods.—Reamers.
Claims use since Jan. 1, 1921.

169,010. (CLASS 12. CONSTRUCTION MATERIALS.) FRED W. KAMMERER, doing business as Accurate Metal Weather Strip Company, New York, N. Y. Filed Feb. 1, 1923. Serial No. 175,399.

ACCURATE

Particular description of goods.—Metal Weather Strips.
Claims use since Apr. 25, 1919.

169,011. (CLASS 12. CONSTRUCTION MATERIALS.) BLACK DIAMOND PAINT AND VARNISH WORKS, Cincinnati, Ohio. Filed Jan. 31, 1923. Serial No. 175,336.

Watertite

Particular description of goods.—Roof Cement and Ice-Can. Cement.
Claims use since 1914.

169,012. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RONNING MOTOR COMPANY, Minneapolis, Minn. Filed Jan. 26, 1923. Serial No. 175,165.

RONNING

Particular description of goods.—Ensilage Harvesters, Tractors, Road Graders, Excavators, Stump Pullers, Portable Power-Driven Saws, Potato Diggers, Corn Pickers, Pneumatic Elevators, Shock Loaders, Seeding Machines, Cultivators, Hay Loaders, Potato Planters, Ditching Machines, and Hoisting Machines.
Claims use since on or about June 1, 1912.

169,013. (CLASS 12. CONSTRUCTION MATERIALS.) ARIZONA GYPSUM PLASTER CO., Douglas, Ariz. Filed Jan. 24, 1923. Serial No. 174,988.

DOUGLAS
PLASTER

Particular description of goods.—Ground and Calcined Plaster and Gypsum Tile.
Claims use since 1907.

169,014. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE BOCKSTEGE FURNITURE CO., Evansville, Ind. Filed Jan. 2, 1923. Serial No. 174,060.

Bockstege

Particular description of goods.—Furniture and Upholstery.
Claims use since Jan. 1, 1921.

169,015. (CLASS 11. INKS AND INKING MATERIALS.) HAMPTON AULD, Newark, N. J. Filed Jan. 18, 1923. Serial No. 174,721.

Bodygum

Particular description of goods.—A Preparation for Mixing with Printing Ink to Give Body Thereto.
Claims use since about Aug. 16, 1906.

169,016. (CLASS 39. CLOTHING.) RICHARD B. HANSEN, doing business as R. B. Hansen Rubber Co., Akron, Ohio. Filed Dec. 28, 1922. Serial No. 173,929.

R. B. HANSEN RUBBER CO
EVERY THING FOR THE LADIES & BABIES
AKRON, O.

Particular description of goods.—Rubber Goods—Namely, Household Aprons, Tea Aprons, Infants' Panties, Infants' Bibs, Dress Shields, Nursing Brassières, Children's Coveralls, Household Rubber Gloves.
Claims use since May 16, 1920.

169,017. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VACUUM CANDY MACHINERY CO., Chicago, Ill. Filed Dec. 4, 1922. Serial No. 172,917.

SIMPLEX

Particular description of goods.—Candy Machinery—Namely, Cookers, Sizing Machines, and Plastic Presses.
Claims use since July, 1914.

169,018. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM C. ADAMS, doing business as Adams Drug Company, Panama City, Fla. Filed Nov. 3, 1922. Serial No. 171,518.

$50.00 GUARANTEED



Roach and Water Bug
KILLER



Particular description of goods.—Insecticide.
Claims use since June, 1921.

169,019. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEORGE W. MORROW, San Francisco, Calif. Filed Oct. 11, 1922. Serial No. 170,592.

LOVERLEAF

Particular description of goods.—Boat Propellers.
Claims use since Mar. 1, 1922.

169,020. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SIGNAL ELECTRIC MANUFACTURING CO., Menominee, Mich. Filed Oct. 4, 1922. Serial No. 170,314.

SIGNAL

Particular description of goods.—Telegraph Relays, Electric Bells, Buzzers, Push Buttons, Radio Receiving Apparatus, Fractional-Horsepower Motors, Wireless Practice Sets, Tuning Coils, Loading Coils, Loose Couplers, Receiving Transformers, Condensers, Crystal Detectors, Rheostats, Vacuum-Tube Sockets, Vacuum-Tube Control Panels and Cabinets, Amplifiers, Aerial Change-Over Switches, Kick-Back Preventers, Wireless Keys, Choke Coils, Spark Gaps, Oscillation Transformers, Filter Coils, and Impedance Coils.
Claims use since Sept. 1, 1919.

169,021. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JAMES A. ANTHONY, Girard, Ala. Filed Sept. 23, 1922. Serial No. 169,841.

Mel-low

Particular description of goods.—Soft Drinks.
Claims use since July 1, 1921.

169,022. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL CORETTI, Freeport, N. Y. Filed Sept. 15, 1922. Serial No. 169,474.

KLEENSKALP

Particular description of goods.—Hair Tonic.
Claims use since Feb. 1, 1922.

169,023. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOSS & MONEY, Spencer, Ind. Filed Aug. 23, 1922. Serial No. 168,616.

Lime-Soda

Particular description of goods.—Cough Sirups.
Claims use since Dec. 1, 1921.

169,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIDNEY G. SIMONS, doing business as Southland Pecan Company, Columbus, Ga. Filed Aug. 21, 1922. Serial No. 168,557.

GOLD MEDAL

Particular description of goods.—Pecans in Their Natural State.
Claims use since Oct. 1, 1919.

169,025. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT BOLLERMAN, doing business as Ne-Ver-Rust Mfg. Co., Brooklyn, N. Y. Filed Aug. 9, 1922. Serial No. 167,971.



Particular description of goods.—Chemical Compounds Used in the Treatment of Iron or Other Metal Surfaces Against Rusting.
Claims use since Feb. 1, 1922.

169,026. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NASH COFFEE COMPANY, Minneapolis, Minn. Filed July 14, 1922. Serial No. 166,901.

Nash's

Particular description of goods.—Peanut Butter.
Claims use since Feb. 1, 1922.

169,027. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. T. SAKIROPULOS, New York, N. Y. Filed June 26, 1922. Serial No. 166,107.

Real Jyp

Particular description of goods.—Shoe Laces.
Claims use since about Apr. 1, 1922.

169,028. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BOYNTON FURNACE CO., Jersey City, N. J., and New York, N. Y. Filed June 14, 1922. Serial No. 165,180.

BOYNTON SQUARE POT

Particular description of goods.—Steam Water Boilers and Hot-Air Furnaces.
Claims use since Feb. 1, 1904.

169,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE O. L. GREGORY VINEGAR CO., Paris, Tex. Filed June 12, 1922. Serial No. 165,371.

SPRIT ESSIG

Particular description of goods.—White Distilled Vinegar.
Claims use since 1892.

169,030. (CLASS 39. CLOTHING.) ELLSWORTH & THAYER MFG. CO., Milwaukee, Wis. Filed June 12, 1922. Serial No. 165,264.

Ellsworth

Particular description of goods.—Gloves and Mittens of Leather, Textiles, or Fur or Any Combination Thereof.
Claims use since 1918.

169,031. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CENTRAL AUTOMOBILE TIRE COMPANY, Boston, Mass. Filed June 6, 1922. Serial No. 165,062.

CENTRAL AUTOMOBILE TIRE CO

Particular description of goods.—Automobile Tires.
Claims use since Sept. 1, 1912.

169,032. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BAKER PAINT & VARNISH CO., Jersey City, N. J. Filed June 2, 1922. Serial No. 164,797.

SASH MILL
PRIMELESS

Particular description of goods.—Putty.
Claims use since Mar. 1, 1922.

169,033. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) AARON E. JOHNSON, doing business as Aaron E. Johnson Jly. Mfg. Co., Minneapolis, Minn. Filed May 8, 1922. Serial No. 163,522.

Masterkraft

Particular description of goods.—Finger Rings.
Claims use since Apr. 10, 1922.

169,034. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RAYMOND ELY MEYER, doing business as the Raymond E. Meyer Company, New York, N. Y. Filed Apr. 18, 1922. Serial No. 162,496.

BLUWHITE
BLUE WHILE YOU WASH

Particular description of goods.—Soap.
Claims use since Apr. 5, 1922.

169,035. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 24, 1922. Serial No. 161,213.

Everything for Art Needlework

Particular description of goods.—Ribbons, Towels, Toweling, Tapestry, and Other Piece Goods.
Claims use since Nov. 4, 1921.

169,036. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 24, 1922. Serial No. 161,214.

Everything for Art Needlework

Particular description of goods.—Floss, Embroidery Rope, Yarns and Threads of Wool, Worsted, Cotton, Silk, Artificial Silk, or of Combinations Thereof, Useful for Art Needlework, Embroidery, Knitting, Crocheting, Tatting, Weaving, Braiding, Sewing, and Lace Making.
Claims use since Nov. 4, 1921.

INTERNATIONAL TRADE-MARK REGISTRATIONS

The following International Registration has been received from the Bureau at Habana and has been placed upon the Register in accordance with the provisions of section 1 (a) of the act of March 19, 1920.

169,037. International Registration No. 825 of March 26, 1923. Registered in Dominican Republic on December 14, 1922, No. 1,301. Proprietor: TROWER & SONS. Address: 38 Eastcheap, London, England.



Merchandise to which the mark is affixed.—Wines and Spirits.

LABELS

REGISTERED MAY 29, 1923.

25,993.—*Title:* AMERICAN WOOD CEMENT COMPOUND. For Semipaste Compound for Filling Defects in Furniture. AMERICAN MANUFACTURING CO., Buffalo, N. Y. Published January 30, 1923.

25,994.—*Title:* APEX CHOCOLATES. For Chocolates. APEX CHOCOLATE COMPANY, Cambridge, Mass. Published April 5, 1923.

25,995.—*Title:* PIPIAN RANCHERO. For a Mixture of Dried Chili, Spices, and Cereals. PABLO BACA, doing business as La Victoria Packing Company, Los Angeles, Calif. Published March 20, 1923.

25,996.—*Title:* MOLE POBLANO. For a Mixture of Dried Chili and Spices. PABLO BACA, doing business as La Victoria Packing Company, Los Angeles, Calif. Published March 20, 1923.

25,997.—*Title:* BESTOVALL. For Metal Polish. THE BESTOVALL CO., Stapleton, New York, N. Y. Published April 26, 1923.

25,998.—*Title:* BLUE DIAMOND SERVICE. For Lime Putty. BLUE DIAMOND MATERIALS COMPANY, INC., Los Angeles, Calif. Published March 12, 1923.

25,999.—*Title:* PUYALLUP. For Red Raspberries. GUSTAVUS HALBERT BRADT, San Francisco, Calif. Published February 28, 1923.

26,000.—*Title:* ALBANY. For Blackberries. GUSTAVUS HALBERT BRADT, San Francisco, Calif. Published February 28, 1923.

26,001.—*Title:* SUMNER. For Blackberries. GUSTAVUS HALBERT BRADT, San Francisco, Calif. Published February 28, 1923.

26,002.—*Title:* PUGET SOUND. For Blackberries. GUSTAVUS HALBERT BRADT, San Francisco, Calif. Published February 28, 1923.

26,003.—*Title:* FOURSOME-MATCH SCORE CARD. For Friction Matches. ROBERT L. COMBS, Chicago, Ill. Published April 28, 1923.

26,004.—*Title:* MIRACLE HAIR NET. For Envelopes for Hair Nets. CROWN HAIR GOODS CO., New York, N. Y. Published December 14, 1922.

26,005.—*Title:* TEDELLO. For Cigars. DELPHIA CIGAR CO. INC., Philadelphia, Pa. Published March 10, 1922.

26,006.—*Title:* CHOCOLATE COVERED SUN-MAID RAISINS. For Raisins, Chocolate Covered. ELMER CANDY CO., INC., New Orleans, La. Published April 6, 1923.

26,007.—*Title:* VIEUX CARRÉ SOUVENIR PACKAGE. For Candies. ELMER CANDY CO., INC., New Orleans, La. Published April 7, 1923.

26,008.—*Title:* WATCHMAN. For Cigars. CELESTINO FERNANDEZ & CO., Milwaukee, Wis. Published March 15, 1923.

26,009.—*Title:* FREEMAN'S DUST ABSORBER. For a Preparation for Absorbing Dust from Polished Surfaces. FREEMAN DUST ABSORBER MFG. CO., Colorado Springs, Colo. Published March 7, 1923.

26,010.—*Title:* HOFFMANN'S FINEST QUALITY. For Currants. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,011.—*Title:* HOFFMANN'S FINEST QUALITY. For Sugar. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,012.—*Title:* HOFFMANN'S FINEST QUALITY. For Shrimp. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,013.—*Title:* HOFFMANN'S FINEST QUALITY. For Horse Radish. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,014.—*Title:* HOFFMANN'S FINEST QUALITY. For Rolled Oats. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,015.—*Title:* HOFFMANN'S FINEST QUALITY. For Apricots. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,016.—*Title:* HOFFMANN'S FINEST QUALITY. For Peas. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,017.—*Title:* HOFFMANN'S FINEST QUALITY. For Coffee. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,018.—*Title:* HOFFMANN'S FINEST QUALITY. For Tea. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,019.—*Title:* HOFFMANN'S FINEST QUALITY. For Macaroni. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,020.—*Title:* HOFFMANN'S FINEST QUALITY. For Evaporated Milk. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,021.—*Title:* HOFFMANN'S FINEST QUALITY. For Corn Starch. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,022.—*Title:* HOFFMANN'S FINEST QUALITY. For Gloss Starch. JOHN HOFFMANN & SONS CO., Milwaukee, Wis. Published February 1, 1923.

26,023.—*Title:* HOYE'S HOLLY CHAMPAGNE. For Beverages. STEPHEN M. HOYE, doing business as Hoye's Holly Products Co., Brooklyn, N. Y. Published April 25, 1923.

26,024.—*Title:* HYGIÈNE DE LA TÊTE. For Hair Tonics. IMPERIAL PERFUMERY AND BARBER'S SUPPLIES INC., New York, N. Y. Published November 8, 1922.

26,025.—*Title:* GLEN'S. For Liver Capsules. GLEN S. JOHNSON, doing business as Glen S. Johnson & Co., Mineral Wells, Tex. Published April 21, 1923.

26,026.—*Title:* INSTANT COFFEOLA. For Coffee-Like Beverages. KELLOGG COMPANY, Battle Creek, Mich. Published February 6, 1923.

26,027.—*Title:* SINCLAIRS. For Cigars. J. KERNS, Milwaukee, Wis. Published February 15, 1923.

26,028.—*Title:* FLOR DE MEHLHOP. For Cigars. J. KERNS, Milwaukee, Wis. Published January 15, 1923.

26,029.—*Title:* MAMMY'S SURE-FAT. For Medicine. D. E. LOCKE, doing business as Mammy's Remedy Company, El Paso, Tex. Published September 1, 1922.

26,030.—*Title:* MAH JONGE. For Candy. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Published December 11, 1922.

26,031.—*Title:* EVERWEAR HOSIERY. For Hosiery. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published April 4, 1923.

26,032.—*Title:* MUENCHNER BRAND MALT EXTRACT. For Malt Extracts and Sirups. FRED MUENCH, Brooklyn, N. Y. Published March 1, 1923.

26,033.—*Title:* TOSCANI MARCA AVANTI. For Cigars. PETRI CIGAR CO., INC., San Francisco, Calif. Published January 15, 1920.

26,034.—*Title:* PACK-O WHIPPED CREAM. For Whipped Cream. CARL SMIDLER, New York, N. Y. Published April 27, 1923.

26,035.—*Title:* "BLACK LEAF 40" NICOTINE SULPHATE. For Bottles Containing Nicotine Sulphate for Spraying Purposes. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION, Louisville, Ky. Published March 15, 1923.

26,036.—*Title:* TRIO. For Dandruff Remover. TRIO LABORATORIES, Dallas, Tex. Published April 14, 1923.

26,037.—*Title:* A-CAN-A. For a Can of Tire Patch. THE VMS CO., Oklahoma city, Okla. Published February 25, 1923.

26,038.—*Title:* ORIGINAL WEINGER'S BEST LOOK FOR THE NAME OF S. WEINGER ON EVERY CARTON. For Cartons Containing Eggs. SOLOMON WEINGER, Chicago, Ill. Published March 10, 1923.

26,039.—*Title:* WELCH'S GRAPELADE. For Welch's Grapelade. THE WELCH GRAPE JUICE COMPANY, INC., Westfield, N. Y. Published April 2, 1923.

26,040.—*Title:* ABSORBINE, JR. THE ANTISEPTIC LINIMENT. For Liniment. W. F. YOUNG, INC., Springfield, Mass. Published June 15, 1922.

PRINTS

REGISTERED MAY 29, 1923.

6,730.—*Title:* VENUS PENCILS. For Lead Pencils. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published February 15, 1923.

6,731.—*Title:* THEY KNOW WHY THEY PREFER "B. V. D." For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 1, 1923.

6,732.—*Title:* CLOSING OUT FACTORY PIANOS. For Pianos of All Kinds. BOSTON PIANO COMPANY, Chicago, Ill. Published March 20, 1923.

6,733.—*Title:* YOU CAN WEAR SMALLER SIZE SHOES. For Foot Powders for Foot Baths. CHARLES G. BOYD, Bethlehem, Pa. Published April 26, 1923.

6,734.—*Title:* MAKES THE FEET FEEL FINE. For Foot Powders for Foot Baths. CHARLES G. BOYD, Bethlehem, Pa. Published April 23, 1923.

6,735.—*Title:* PASSED BY THE BOARD OF CENSORS. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published April 28, 1923.

6,736.—*Title:* HURLEY GRIPSEM G/A ARCH SHOE. For Shoes. HURLEY SHOE CO., Rockland, Mass. Published December 30, 1922.

6,737.—*Title:* ATTRACT THE EYE TO MAKE FOLKS BUY. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published April 1, 1923.

6,738.—*Title:* SPECIALLY DESIGNED FOR SPECIAL SALES. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published March 25, 1923.

6,739.—*Title:* KIRK'S COCOA HARDWATER CASTILE. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published May 1, 1923.

6,740.—*Title:* COLOR CERTAINTEED. For Dyeing of Yarn, Fabric, and Garments. "S. & M." DYE WORKS, INC., Philadelphia, Pa. Published April 2, 1923.

6,741.—*Title:* HAPPY HOME APRON DRESSES. For Aprons and Dresses. THE STERLING COMPANY, Chicago, Ill. Published April 2, 1923.

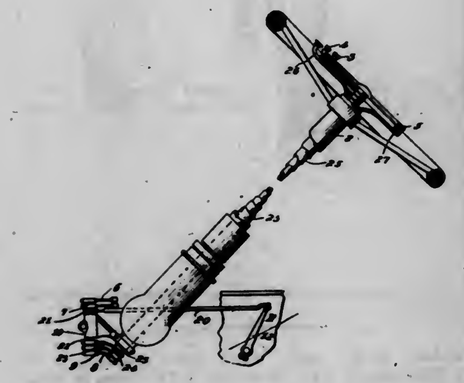
6,742.—*Title:* PERMANENT WAVE EFFECT NOW QUICK, CHEAP AND EASY. For Curling Fluid. MARGUERITE SULLIVAN, doing business as Domino House, Philadelphia, Pa. Published April 8, 1923.

6,743.—*Title:* MR. BEADED TIP. For Beaded-Tip Shoe Lacings. UNITED LACE & BRAID MANUFACTURING CO., Auburn, R. I. Published April 5, 1923.

REISSUES.

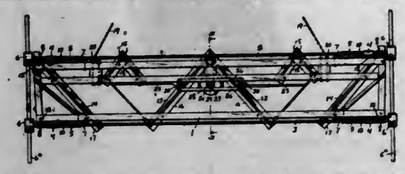
MAY 29, 1923.

15,614. VARIABLE-SPEED DEVICE. James H. Brimson, Saginaw, Mich., assignor, by direct and mesne assignments, to Brimson Transmission Company, Saginaw, Mich, a Corporation of Michigan. Filed Mar. 5, 1920. Serial No. 363,555. Original No. 1,232,889, dated July 10, 1917, Serial No. 130,680, filed Nov. 10, 1916. 1 Claim. (Cl. 74—39.)



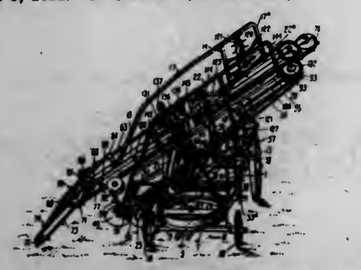
In a motor vehicle having a change speed mechanism provided with an actuating arm, and a steering column assembly including a spark control and a throttle control:—an additional control carried by the steering column assembly for the actuating arm of the change speed mechanism, said additional control including a tubular shaft rotatably mounted within the steering column assembly and adapted to be rotated at the upper end of the steering column assembly, a rock shaft wholly outside of the steering column assembly at the lower end thereof, a crank on said shaft connected to the actuating arm of the change speed mechanism and adapted to actuate said change speed mechanism, and an operative connection between said rock shaft and said tubular shaft so that said rock shaft may be rocked by rotation of said tubular shaft.

15,615. SUBGRADE SCRAPER. Edward G. Carr, Milwaukee, Wis. Filed May 8, 1919. Serial No. 295,791. Original No. 1,268,925, dated June 11, 1918 Serial No. 153,144, filed Mar. 7, 1917. Renewed Nov. 15, 1917, Serial No. 202,257. 8 Claims. (Cl. 94—45.)



5. The combination with a base track with reference to which a grade is to be established, of a vertically adjustable undercutting and non-impeding-progress scraper or cutter blade mechanism supported thereby.

15,616. CANE STRIPPER. George D. Luce, New Orleans, La., assignor to Luce Cane Harvester Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 17, 1915. Serial No. 8,940. Original No. 1,053,917, dated Feb. 18, 1913, Serial No. 600,917, filed Jan. 5, 1911. 44 Claims. (Cl. 130—31.)

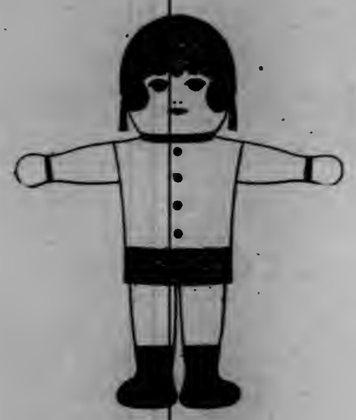


1. In a machine of the character described, in combination, a frame, guide frames forming a space therebetween through which the cane stalks may pass in a standing position, means for advancing cut stalks between said guide frames, a rotatable topping knife, a vertically adjustable carriage carrying said knife and mounted within one of the guide frames, vertically disposed brushes mounted in the guide frames in the rear of said knife, guide bars for guiding the stalks from one brush to another, and a guide bar carried by said knife carriage and arranged to guide the stalks in their passage by the knife and from the knife to the first stripping brush in the rear of the knife.

DESIGNS.

MAY 29, 1923.

62,433. DOLL. EMILY MCCOWAN, New York, N. Y. Filed Dec. 4, 1922. Serial No. 4,495. Term of Patent 7 years.



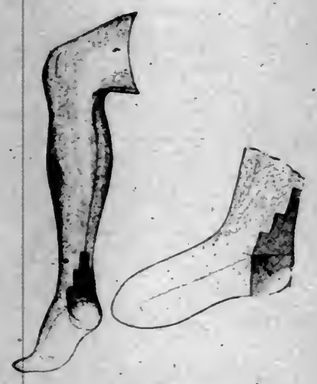
The ornamental design for a doll, as shown.

62,434. FACE-POWDER BOX. THOMAS J. NEWLYN, El Paso, Tex. Filed July 5, 1922. Serial No. 2,971. Term of patent 7 years.



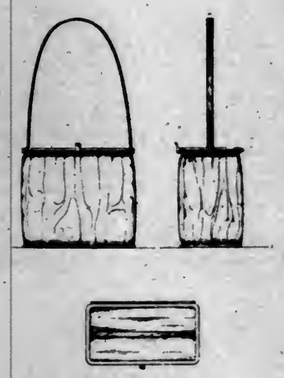
The ornamental design for a face powder box as shown.

62,435. STOCKING. WILLIAM SCOTT, Jr., Norristown, Pa. Filed June 21, 1921. Serial No. 479,399. Term of patent 7 years.



The ornamental design for a stocking, as shown and described.

62,436. HAND BAG. JACOB SIMS, Brooklyn, N. Y. Filed Aug. 3, 1922. Serial No. 3,278. Term of patent 3½ years.



The design for a handbag as shown.

62,437. METAL BORDER STRIP OR SIMILAR ARTICLE OF MANUFACTURE. DAVID STOLL, New York, N. Y. Filed July 22, 1922. Serial No. 3,174. Term of patent 3½ years.



The ornamental design for a metal border strip or similar article of manufacture as shown and described.

62,438. SWEATER. LOUIS STRAUSS, Brooklyn, N. Y. Filed Jan. 14, 1922. Serial No. 198. Term of patent 3½ years.

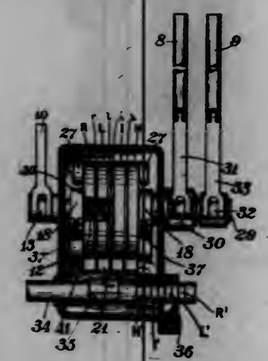


The ornamental design for a sweater as shown and described.

PATENTS

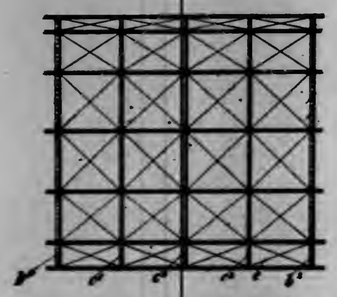
GRANTED MAY 29, 1923.

1,456,496. GEAR-SHIFTING MECHANISM. JAMES S. ALSPAUGH, Portsmouth, Ohio. Filed Apr. 26, 1922. Serial No. 556,676. 13 Claims. (Cl. 74—58.)



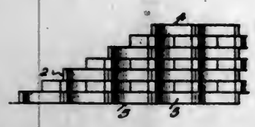
1. Means for reciprocating a gear shift rod comprising, in combination, a rock shaft and means for actuating said rod from said shaft, a pair of levers connected together and to said rock shaft to cause a back and forth motion of said rock shaft when said levers are alternately moved in the same direction, and means for imparting such movement to said levers.

1,456,497. SKELETON FRAME CONSTRUCTION FOR AIRSHIPS AND THE LIKE. KARL ARNSTEIN, Friedrichshafen, Germany. Filed Apr. 8, 1922. Serial No. 550,885. 1 Claim. (Cl. 244—3.)



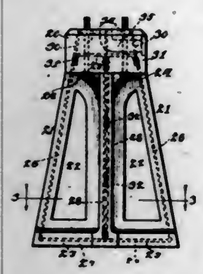
The method of making rigid skeleton frames for air ships which consists in connecting parallelly spaced longitudinal supporting members to a transversely arranged supporting ring, bracing an auxiliary ring by aid of radial tension members, inserting said auxiliary ring intermediate, said supporting members parallel to said supporting ring and removing said radial tension members.

1,456,498. BRICK OR TILE FOR FURNACE CONSTRUCTION. CHARLES F. BINNS, Alfred, N. Y. Filed July 18, 1921. Serial No. 485,610. 11 Claims. (Cl. 72—39.)



7. An article of manufacture comprising a brick for wall construction, said brick having flat top and bottom faces coextensive with the length and breadth of the brick and parallel aligned end faces, and a laterally offset portion intermediate of the end faces.

1,456,499. FOUNDATION PEDESTAL OR PIER. JOHN M. FITZ GERALD, River Forest, Ill. Filed Feb. 9, 1920. Serial No. 357,268. 8 Claims. (Cl. 72—84.)

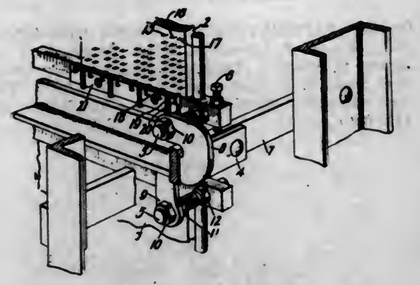


1. A foundation pier of the character described comprising a normally horizontal top or table portion, and a plurality of spaced-apart substantially vertical anchors rigid with the top or table portion and extending downward and outward from the under-surface thereof and defining a substantially horizontal base formed by the bottom portions of the anchors, the anchors being relatively long at the bottom so as to cover a relatively great area, the adjacent anchors providing recesses between them which open outwardly at the side portions of the device and which also open downwardly at the bottom thereof to provide space between adjacent anchors for filling and tamping under them respectively.

1,456,500. ADJUSTABLE MOUNTING FOR TERMINAL-BANK PANELS. OSCAR F. FORSBERG, Yonkers, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,377. 5 Claims. (Cl. 175—369.)

5. In combination, two terminal bank panels in superposed relation, a supporting structure for said panels, a double lug supporting member for said panels attached to said supporting structure, horizontal screws providing forward and back adjustment for said panels, each secured jointly to one of the lugs of said supporting member and to one of said panels, and each extending through

an aperture in its respectively associated panel, said aperture being larger than the portion of said screw which passes therethrough, thereby providing lateral adjustment for said panels, and a vertical screw jointly engaging said panel and said supporting structure, whereby said panel may be adjusted vertically.



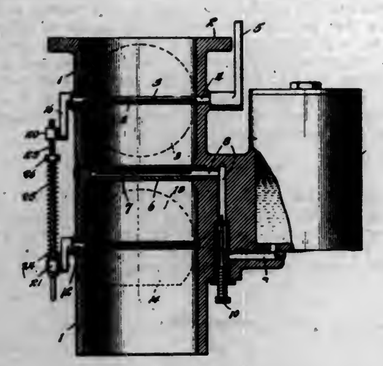
1,456,501. DESK STAND FOR HAND TELEPHONES. OMER M. GLUNT, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1920. Serial No. 404,621. 1 Claim. (Cl. 179—147.)



In combination, a hand telephone having receiver and transmitter portions and an ungrooved handle portion between said receiver and transmitter portions, and a desk stand provided with a cradle adapted to receive the handle portion of the hand telephone and provided with projecting portions arranged to engage the receiver and transmitter portions of the hand telephone and hold the latter from longitudinal movement in the cradle.

1,456,502. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. ALBERT E. HARTWELL, Newark, N. J., assignor, by mesne assignments, to Auto Betterment Corporation, Newark, N. J., a Corporation of Delaware. Filed Feb. 12, 1919. Serial No. 276,471. 7 Claims. (Cl. 261—52.)

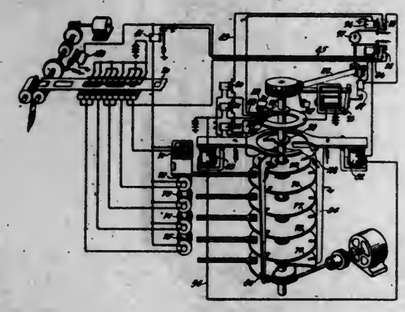
1. In a carburetor, the combination of a body providing an air passage, a throttle therein, a fuel nozzle in the passage below the throttle, an unbalanced regulating valve located in the passage below the nozzle and arranged to be opened by entering air, an arm connected to the throttle, an arm connected to the valve, a link connecting the arms and movable in respect to one of them, and a spring carried by the link opposing variable resistance to the opening movement of the valve.



4. A carburetor comprising a body having an air passage including a mixing space, a fuel conduit having an orifice in the mixing space, an oscillating butterfly throttle located in the air passage posterior to the fuel orifice, a shaft for the throttle, an oscillating butterfly regulating valve located in the air passage anterior to the fuel orifice, a shaft for the regulating valve, the regulating valve at one side of the shaft being cut away to produce a partially unbalanced condition of the valve, a ledge being provided in the air passage to co-operate with the smaller side of the regulating valve, and spring means connecting the throttle and regulating valve shafts and arranged to apply varying resistance to opening movement of the regulating valve under the influence of entering air in different positions of the throttle and at different engine speeds.

6. In a carburetor, a body providing an air passage, a fuel discharge orifice therein, a throttle, an automatic air regulating valve movably mounted in the air passage and arranged to be opened by movement of air through the air passage, and means connecting the throttle and the regulating valve and arranged in any given throttle position to oppose yielding resistance to opening movement of the valve with the resistance decreasing as air flow increases.

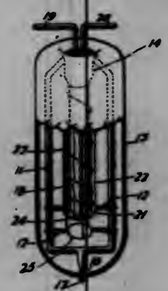
1,456,503. TRANSLATING APPARATUS. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1921. Serial No. 502,608. 4 Claims. (Cl. 197—20.)



1. In combination, a printing mechanism comprising a rotatable type wheel, a plurality of concentrically ar-

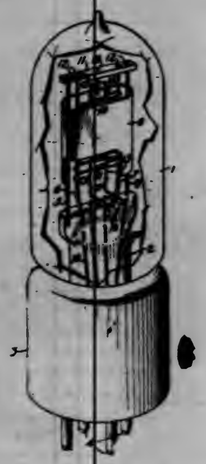
ranged discs having notches therein, a selector bar for each set of notches in said discs, means controlling the release of said bars, further means selectively operative for aligning the notches in the discs with respect to said bars, a tape perforated to conform to signals of different lengths, a plurality of segments over which said perforations are arranged to pass, and circuit closing means for completing contact with segments through said perforations, whereby said selectively operated means is operated to effect the impression of the character corresponding to such perforations.

1,456,504. ELECTRODE SUPPORTING DEVICE. WILLIAM G. HOUSKEEPER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1920. Serial No. 373,573. 8 Claims. (Cl. 250—27.)



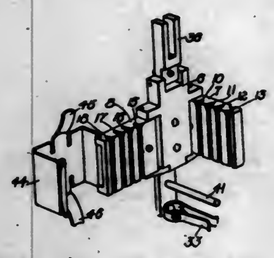
1. A support, an electrode to be supported therefrom, and supporting connections therebetween which are entirely exterior of either the support or the electrode to be supported.

1,456,505. ELECTRIC DISCHARGE DEVICE. WILLIAM A. KNOOP, Brooklyn, and PAUL P. CIOFFI, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 12, 1919. Serial No. 296,331. 22 Claims. (Cl. 250—27.)



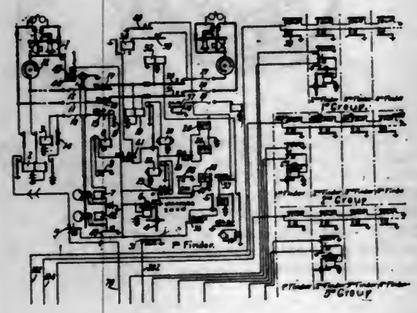
1. An electron discharge device comprising an evacuated vessel, a press within said vessel, cathode, grid and anode electrodes mounted on said press within said vessel, and a frame, one of said electrodes surrounding said frame, and the others of said electrodes mounted entirely within said frame and said surrounding electrode.

1,456,506. VACUUM-TUBE-ELECTRODE ASSEMBLING JIG. WALTER J. LEVERIDGE, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1919. Serial No. 320,576. 17 Claims. (Cl. 113—99.)



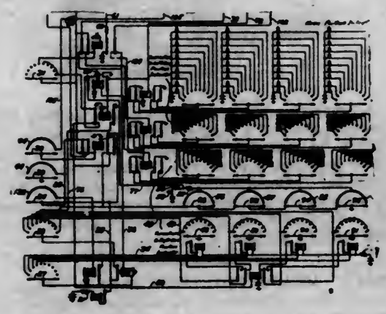
1. A jig comprising a main body portion having relatively movable members pivoted thereto and adapted to hold between them a plurality of electrodes, said movable members being provided with means for spacing said electrodes from each other.

1,456,507. TANDEM ALLOTTING SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 21, 1919. Serial No. 298,580. 9 Claims. (Cl. 179—18.)



1. In an automatic telephone exchange system, a main group of automatic switches, said main group of automatic switches being divided into sub-groups, an allotter switch individual to said main group of automatic switches, an allotter switch individual to each of said sub-groups, means to determine which of said switches shall be taken for use as a result of the cooperation of said main group allotter switch and one of said sub-group allotter switches, and means to advance said main group allotter each time that a switch is taken for use.

1,456,508. NUMBER-INDICATING SYSTEM. ALBEN E. LUNDELL, New York, and TUDOR VAN AMSTEL, Douglaston, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1919. Serial No. 313,524. 13 Claims. (Cl. 179—27.)

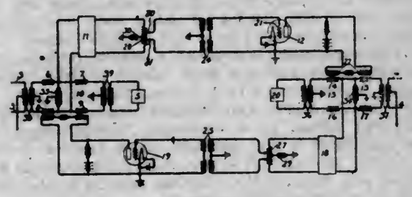


12. In a number indicating system, a plurality of sets of lamps, a set of registering devices, means to selectively position said registering devices, control relays, and means to operatively associate a desired set of lamps with said registering devices under the control of said relays.

1,456,509. PROCESS OF MAKING ARSENICAL SOLUTIONS. ALFRED MAI, Munich, Germany. Filed Sept. 1, 1921. Serial No. 497,726. 1 Claim. (Cl. 167—6.)

A process of making arsenic solutions in which the arsenic compounds are fused together with halogen compounds and the fusion is dissolved in organic solvents.

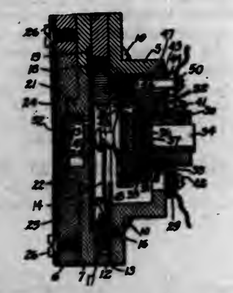
1,456,510. TRANSMISSION CIRCUITS. ROBERT C. MATHES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,740. 26 Claims. (Cl. 179—171.)



1. A two-way repeating system comprising a uni-directional path comprising an amplifier and impedance devices, a symmetrical connection to ground for certain of said devices, and an asymmetrical connection to ground for other of said devices.

1,456,511. TRANSMITTER. JOHN P. MINTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1919. Serial No. 321,914. 7 Claims. (Cl. 179—187.)

1. A telephone transmitter comprising a diaphragm, a plurality of chambers resonant at voice frequencies located in serial relation in front of said diaphragm



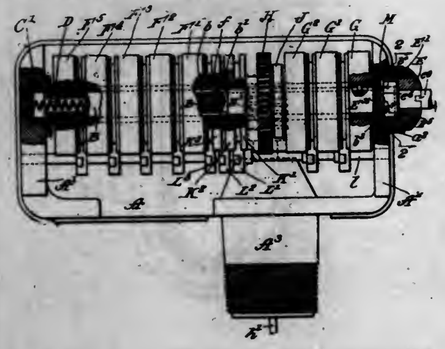
and constricted openings connecting said resonating chambers.

1,456,512. MANUFACTURE OF AIR PROPELLERS. EUGEN L. MÜLLER, Berlin, Germany. Filed July 16, 1920. Serial No. 396,874. 1 Claim. (Cl. 113—116.)



The method which consists in converting a metal disc into an outwardly cylindrical hollow body closed at one end and increasing in thickness towards the closed end and compressing said hollow body so as to transform it into a propeller blade with the open end forming the tip and the closed end forming the base of the blade, said blade containing a strong portion which makes it adaptable to be joined to other blades in the building up of an entire propeller wherein angular displacement of individual blades is essential.

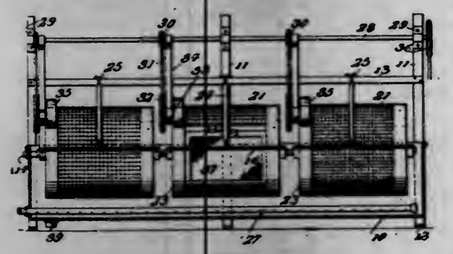
1,456,513. ODOMETER. JOHN K. OLSEN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 30, 1922. Serial No. 548,240. 6 Claims. (Cl. 235—96.)



1. In an odometer having a continuous indication train and a trip train, and having a shaft for the trip train which is arranged to be thrust longitudinally a substantial distance for disengagement from the continuous train for resetting the trip train, in combination with a frame or casing, a bushing mounted and longitudinally adjustable in said frame, a journal bearing

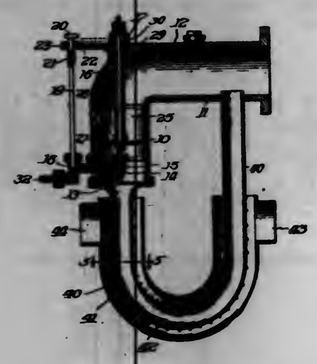
distinct from the bushing supported and longitudinally stopped therein, the trip train shaft journaled in said bearing and means for yieldingly holding it at a plurality of positions longitudinally therein; whereby said shaft is carried longitudinally with the longitudinal adjustment of the bushing, separately and independently of its adjustment from one to another of its several positions in the journal bearing and means for securing the bushing at adjusted position in the frame.

1,456,514. PHOTOGRAPHIC-PRINT-WASHING MACHINE. IRVING POTTRUCK and NORMAN SHALIT, New York, N. Y. Filed July 27, 1920. Serial No. 399,383. 19 Claims. (Cl. 95—93.)



1. A photographic print washing machine including a bath containing element, a print containing element partly submerged therein, a constantly operating driving element, and means for transmitting motion between the operating element and the print containing element including an endless member contacting with a portion of the print containing element.

1,456,515. CARBURETOR. GEORGE L. REICHELM, Short Beach, Conn., assignor of one-half to Will H. Ritter, Short Beach, Conn. Filed Feb. 18, 1918. Serial No. 217,761. Renewed Oct. 11, 1922. Serial No. 594,346. 17 Claims. (Cl. 48—107.)



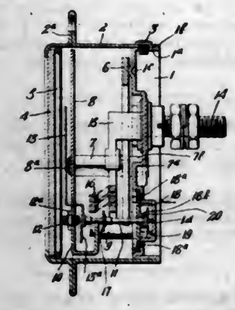
1. In a device of the class described, the combination of a member having a passageway, air and fuel inlets associated therewith, means for controlling said inlets whereby a constant mixture may be maintained, said air inlet comprising means for dividing the incoming air for initially and secondarily mixing with the fuel, said means being adjustable and means for treating the mixture of fuel and initially mixed air.

1,456,516. CONNECTING PLUG. WILLIAM E. RINCKEN, Glendale, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1918. Serial No. 230,974. 3 Claims. (Cl. 173—361.)



3. A connecting plug comprising a body portion, having an annular portion, a removable sleeve therefor, retaining means for said sleeve comprising a retaining member arranged to engage said sleeve, a resilient actuating member therefor confined within said annular portion and conforming to the inner surface thereof, and lugs formed on the ends of said actuating member engaging the edges of said annular portion.

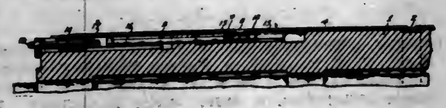
1,456,517. MEASURING INSTRUMENT. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Oct. 22, 1920. Serial No. 418,658. 6 Claims. (Cl. 171—95.)



1. In a measuring instrument, the combination with the movable element and means for causing the deflection thereof, of a damping liquid, and an auxiliary damping element carried by said movable element and engaging said liquid, said damping element comprising a disk movable in its own plane through said liquid and the periphery of said disk at all points being substantially equi-distant from the axis of said movable element.

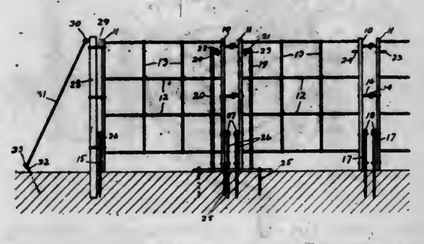
5. In a measuring instrument, a sheet metal support, a movable device having a shaft carried by said support, means for deflecting said device, and damping means for the movable device, said damping means comprising a container formed by a depression in said support, a damping liquid in said container, and a damping element carried by said shaft in said container and engaging said liquid, said damping element being movable in the direction in which its surface extends.

1,456,518. MARGINAL PRINTING PLATES. LOUIS A. SCHMIDT, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Dec. 1, 1921. Serial No. 519,042. 9 Claims. (Cl. 101—378.)



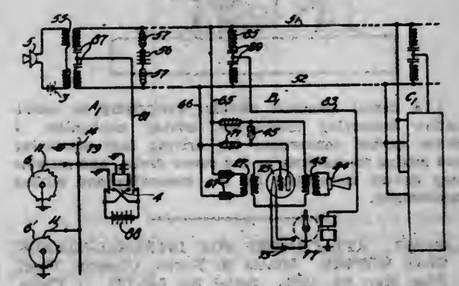
1. In a marginal printing mechanism, the combination with a plate support, of a main printing plate mounted thereon so as to leave a margin space at one end of the plate, and a supplement printing plate secured on the support and having an unbroken printing surface for printing in the margin space at the end of the main plate.

1,456,519. SECTIONAL FENCE. IOAKIM M. SEMENOFF and NYKOLA GURNICKI, Oshawa, Ontario, Canada. Filed Aug. 16, 1922. Serial No. 582,154. 3 Claims. (Cl. 246—24.)



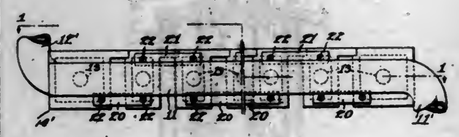
1. A fence composed of a plurality of sections, each of said sections, comprising two end bars, hooks at the outer ends of one end bar of one section and eyes at the upper end of the end bar of the next section adapted to be engaged by said hooks, clamps for clamping one end section to a post, means for bracing the post against the ground, means for securing the adjoining ends of two fence sections to the ground, and angle irons hooked to said fence sections and engaging the ground with their horizontal branches on some of said sections, means for securing said horizontal sections to the ground, and nails passed through eyes at the lower end of two adjoining fence sections, into the ground to secure said fence to the ground.

1,456,520. ENERGIZATION AND CONTROL OF VACUUM TUBES. HERBERT E. SHREEVE, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,482. 9 Claims. (Cl. 179—77.)



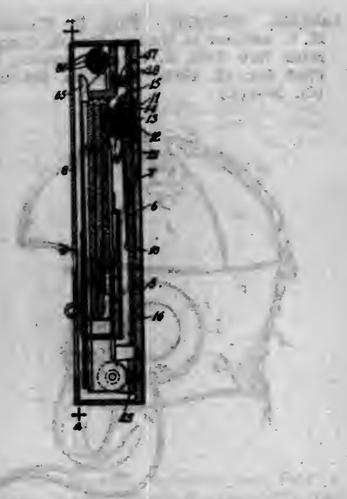
3. A system comprising a plurality of electron discharge amplifying tubes each having a cathode and a cathode-heating circuit, an intelligence transmission line, a source of electromotive force waves for supplying intelligence transmitting currents to said line, and means comprising said line for selectively controlling said heating circuits from a point remote from said tubes.

1,456,521. SECTIONAL WATER GRATE. HENRY F. MORRIS, Collingswood, N. J. Filed Mar. 3, 1921. Serial No. 449,524. 2 Claims. (Cl. 126—163.)



1. In a grate construction of the class described, a plurality of spaced grate bars, each grate bar having a lateral extension along one side thereof and a recess in its opposite side, said extension on each bar bridging the space between it and the next adjacent bar and resting in the recess therein and plates securing adjacent bars together at the top and base, alternately, to hold same in position, substantially as described.

1,456,522. CHECK WRITER. METER STARR, New York, N. Y. Filed July 12, 1922. Serial No. 574,416. 32 Claims. (Cl. 101—20.)

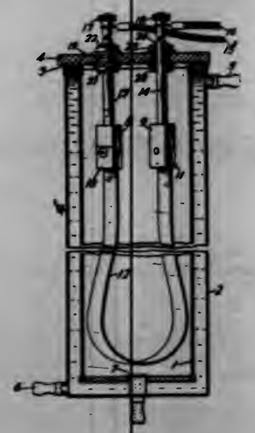


1. A check writer comprising a magazine, a plurality of die plates carried within said magazine and arranged in different planes, means for moving said plates in their respective planes and for transferring them from one plane to the other, and perforating means adapted to cooperate a given plate for carrying out a perforating operation.

1,456,523. METHOD OF AND APPARATUS FOR TREATING METALS. RUSSELL F. TRIMBLE, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 311,042. 2 Claims. (Cl. 176—2.)

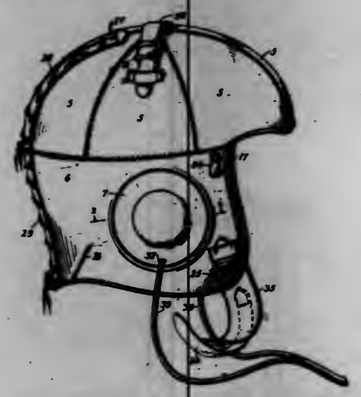
1. The method of manufacture of vacuum tubes which comprises subjecting a strip of electrode material to a vacuum, incandescing said strip while subjected to the

vacuum, forming electrodes from said strip, incorporating said electrodes into an electrode structure, assembling



said electrode structure within a tube, exhausting said tube and heating said electrodes to incandescence during the evacuation of the tube.

1,456,524. HELMET. FRED D. WALDRON, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1918. Serial No. 228,393. 4 Claims. (Cl. 2—117.)



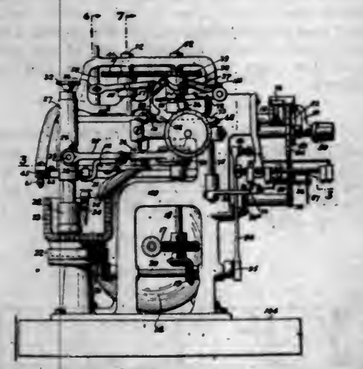
1. A helmet comprising an upper portion and a lower portion, means for adjusting the upper portion to fit the head of the individual user, a pair of receiver pockets permanently secured to said lower portion and additional means for adjusting said receiver pockets for proper alignment with the ears of the individual user.

1,456,525. MACHINE FOR OPENING CANS. PRESTON C. WEST, Hamilton, Mont., assignor to P. C. West Mfg. Co. Inc., Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1922. Serial No. 527,352. 36 Claims. (Cl. 30—3.)

1. A machine for opening cans comprising means for holding and rotating a can, automatic supporting means, and cutting means carried by said supporting means, one of said first and third named means being automatically held in a plane substantially parallel with the ends of the can but movable laterally in said plane during the cutting operation.



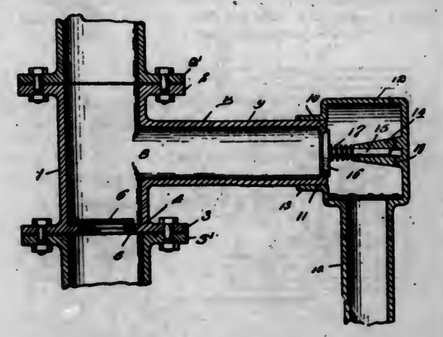
1,456,526. DENTAL-AMALGAM MACHINE. ALFRED G. WRIGHT, Bywood, Pa. Filed Oct. 21, 1922. Serial No. 596,002. 7 Claims. (Cl. 259—15.)



1. A dental amalgam machine comprising in combination measuring mechanism, mixing mechanism, a power device, connections for driving said measuring and mixing mechanisms by the power device, and settable stop motion mechanism for the measuring and mixing mechanisms.

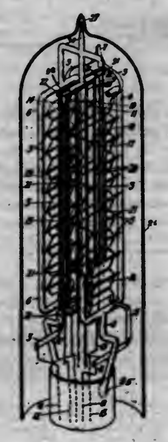
1,456,527. ATTACHMENT FOR INTERNAL-COMBUSTION MOTORS. WILLIS B. YOUNG, Olympia, Wash. Filed Mar. 22, 1922. Serial No. 545,781. 1 Claim. (Cl. 48—192.)

A device of the class described comprising a chamber adapted for connection in the intake manifold of an internal combustion motor between the cylinders and carburetor, a check valve in said chamber normally operating to permit the passage of gas through said chamber into the motor cylinders and operable to cut off communication between the motor cylinders and carburetor in the event of a back fire, a tube in open communication with said chamber, a check valve normally closing the outer end of said tube and adapted to open to the atmosphere in the event of back fire, a valve chamber surrounding said last mentioned check valve, a guide formed



in said valve chamber, a stem for said check valve working within said guide and a spring surrounding said check valve to hold the same normally closed.

1,456,528. ELECTRIC DISCHARGE DEVICE. HAROLD D. ARNOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 27,222, filed May 10, 1915. This application filed Feb. 17, 1919. Serial No. 277,578. 17 Claims. (Cl. 250—27.)

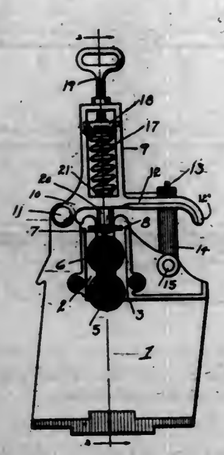


1. An electric discharge device comprising an anode composed of a plurality of parallel strips serially connected, the width of each of said strips being greater than its thickness.

10. In an electric discharge device, an electrode comprising intersecting wires secured together at their intersections forming a flattened cylinder.

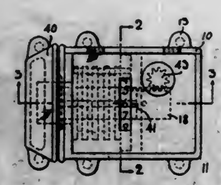
1,456,529. WRINGER. WILLIAM GEORGE BRATTY, Fergus, Ontario, Canada. Filed Jan. 4, 1922. Serial No. 527,025. 5 Claims. (Cl. 68—32.)

1. A wringer including a pair of compression rollers, the journals of one of which are mounted in movable bearings, and means for applying pressure thereto hingedly connected to the wringer, comprising a pair of spring holding frames, spring pressed pins movable through the



lower walls of said frames engageable with the movable bearings, and releasable means holding the pressure means in the pressure applying position.

1,456,530. KEYLESS LOCK. WALTER BICZAK, Hamilton, Ontario, Canada, assignor of one-half to Clifford Frederick, Hamilton, Canada. Filed Apr. 24, 1922. Serial No. 556,272. 4 Claims. (Cl. 70—53.)

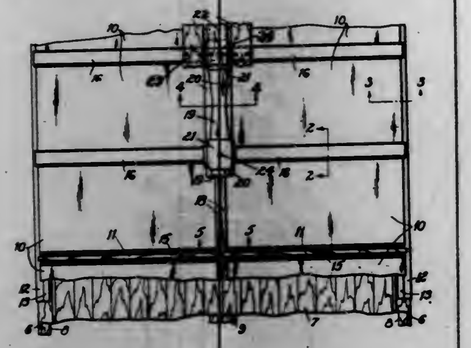


1. A lock of the character described comprising a grooved bolt guide, a large perforated combination disc and a plurality of smaller perforated, shouldered tumbler discs on said guide, washers between each two of said discs keyed to said guide, a bolt movable in said guide, a head on said bolt movable through said tumbler and combination discs when their perforations are in alignment, means for successively operating said tumbler discs to bring their perforations into alignment, and means for limiting the bolt movement.

1,456,531. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1922. Serial No. 609,467. 8 Claims. (Cl. 106—5.)

1. A flexible car roof comprising roof sheets arranged on opposite sides of the ridge and having ridge ends that

are convex, and means for holding the convex ridge ends of said sheets in contact with each other, whereby said

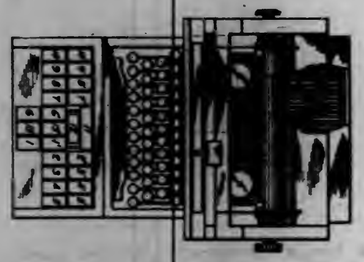


sheets are adapted to rock one on the other whenever there is movement of the roof sheets.

1,456,532. SELENIUM CRYSTALS AND METHOD OF PREPARING THE SAME. FAY C(LUFF) BROWN, Iowa City, Iowa. Filed Mar. 7, 1916. Serial No. 82,782. 11 Claims. (Cl. 252.)

1. The method of preparing selenium for use in selenium bridges, which consists in freeing selenium from occluded gases, then vaporizing the selenium by heat in a high vacuum, and causing the deposition of crystals from the selenium vapor so produced.

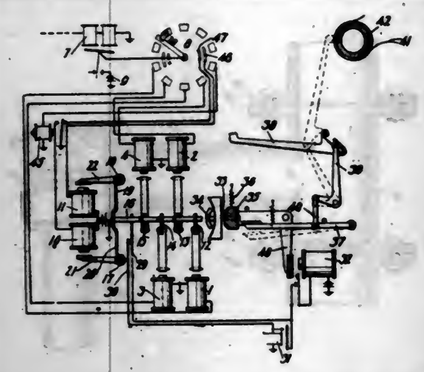
1,456,533. TYPEWRITING MACHINE. PAUL H. BURDICK, Geneva, Ill. Filed Nov. 6, 1920. Serial No. 422,273. 22 Claims. (Cl. 197—13.)



1. In a typewriting machine, a plurality of letter keys and a word space key, and means responsive to the simultaneous actuation of a letter key and said space key for advancing the carriage of said machine one space, for then writing the letter corresponding to the actuated letter key, and for then advancing the carriage another space.

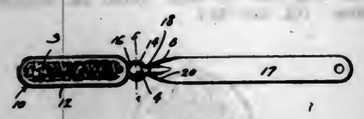
1,456,534. PRINTING TELEGRAPHY. HARRY A. BURGESS, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,522. 10 Claims. (Cl. 178—27.)

1. In a printing telegraph receiver, a plurality of selectable members, a plurality of selecting members, means for actuating any of said selecting members singly and in combination with any other or others of said members to condition a plurality of said selectable mem-



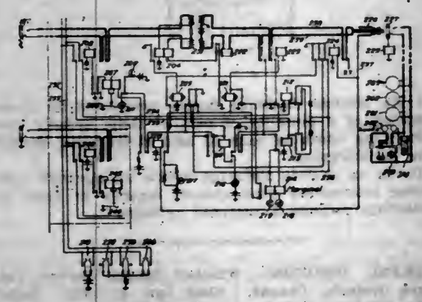
bers for actuation, means to actuate one of said conditioned members, and means associated therewith to print a character.

1,456,535. TOOTHBRUSH. MYLES H. CARTWRIGHT, Toledo, Ohio, assignor to The Cartwright Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed May 7, 1919, Serial No. 295,890. Renewed Feb. 24, 1923. 4 Claims. (Cl. 15—39.)



1. A tooth brush comprising a handle having one end equipped with head retaining means, side flanges on the edges ofthe handle in the rear of the head retaining means, said flanges being bent to provide a socket, a bristle carrying head removably engaged by said retaining means, and an extension at one end of said head for detachable engagement with said socket.

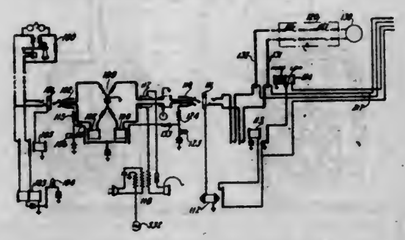
1,456,536. TELEPHONE SYSTEM. EDGAR H. CLARK, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,412. 9 Claims. (Cl. 179—35.)



9. In a telephone system, an operator's position, a plurality of connecting circuits thereat, switches for ex-

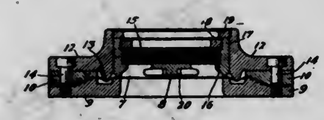
tending said connecting circuits, a set of keys common to said circuits, an individual key for each circuit for associating the common keys with said circuits, a plurality of sources of current, means controlled by said common keys for connecting said sources of current to one of the connecting circuits, and means responsive to the operation of one of said switches for disassociating the common key set from the connecting circuit.

1,456,537. TELEPHONE-EXCHANGE SYSTEM. EDGAR H. CLARK, Richmond Hill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 19, 1920. Serial No. 382,502. 14 Claims. (Cl. 179—27.)



1. In a telephone exchange system, an operator's position, a plurality of trunks arranged in groups at said position, trunk selecting devices, one for each group, means for operating said selecting devices to select a trunk in any of said groups, indicator selecting means, means controlled in accordance with which one of said trunk selecting devices in taken for use for determining the extent of operation of said indicator selecting means, indicator devices, and means controlled by said indicator selecting means for variably operating said indicator devices to indicate the group of trunks containing the selected trunk and the location of the selected trunk in such group.

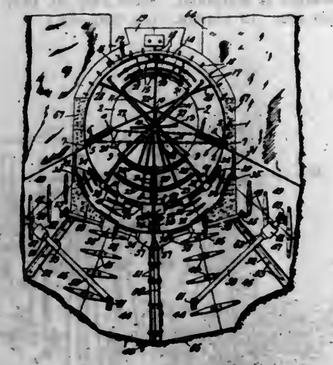
1,456,538. ACOUSTIC APPARATUS. IRVING B. CRANDALL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1917. Serial No. 208,661. 17 Claims. (Cl. 179—106.)



1. A device for the transmission of sound composed of two members, a gaseous medium therebetween, said members being in such a close face-to-face relation to each other that the lowest natural frequency of vibration of said device is beyond the range of importance to speech and means for providing low impedance paths for the gas imprisoned between said members.

1,456,539. CONCRETE MOLD OR FORM. THOMAS DE LA MARE, Tooele, Utah. Filed Feb. 23, 1921. Serial No. 447,203. 11 Claims. (Cl. 25—131.5.)

1. In a concrete mold, a core having an upper split portion, a cap plate seated upon the core over the split portion, an arcuate member attached to one end of the cap plate and having upstanding flange provided with



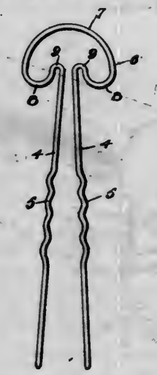
notches for receiving reinforcing rods, and a cope seatable upon the said rods adjacent said flange.

1,456,540. REGENERATED CELLULOSE MATERIAL AND PROCESS OF MAKING SAME. NORMAN E. DITMAN, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,961. 8 Claims. (Cl. 260—100.)

3. A process of preparing solutions suitable for production of regenerated cellulose structures which embraces the step of dissolving cellulosic corn cob material of mature corn cobs, in a caustic alkali and carbon bisulfid combination.

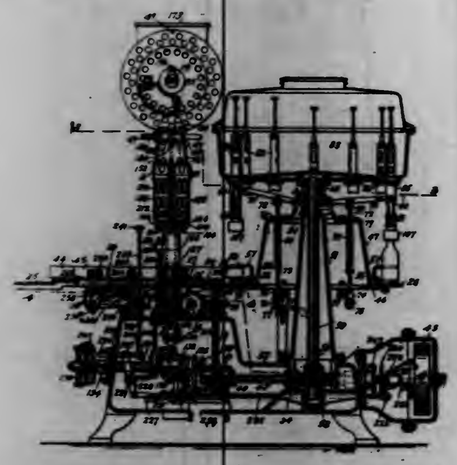
8. Artificial silk containing the regenerated water-insoluble constituents of corn cobs.

1,456,541. HAIRPIN. JEHU B. DOBSCHUTZ, St. Louis, Mo., assignor of one-half to William P. Hill, St. Louis, Mo. Filed May 15, 1922. Serial No. 560,875. 3 Claims. (Cl. 132—52.)



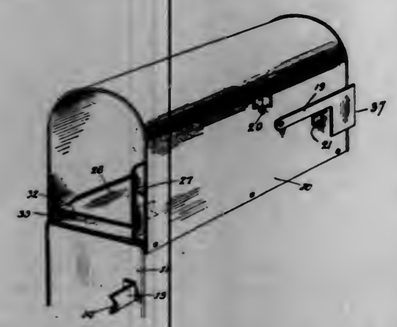
3. A hairpin comprising a pair of prongs, a curved head formed integral with said prongs, said head being provided in its lower portion with downwardly curved bent portions and adjacent the prongs with upwardly bent portions spaced apart from the downwardly bent portions, said upwardly bent portions being integral with the prongs and forming shoulders and pockets adapted to engage the hair for securing the pin therein when in use.

1,456,542. PACKAGING MACHINE. WILLIAM B. ENGLER, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed July 20, 1917. Serial No. 181,680. 13 Claims. (Cl. 226—75.)



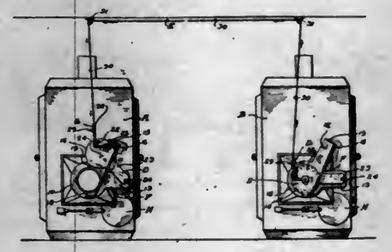
1. In packaging apparatus, and in combination, a plurality of packaging heads, a bottle-supporting table associated therewith to which bottles are delivered, a plurality of spaced bottle-engaging arms, a bar on which said arms are mounted, a plurality of pivoted guides in which said bar is slidable, a crank on which one of said guides is mounted, means for operating said crank, and means for simultaneously causing an endwise movement of the bar in said guides.

1,456,543. AUTOMATIC SIGNAL-OPERATING DEVICE FOR MAIL BOXES. HERMAN C. FEIST, Rowena, Tex. Filed Feb. 21, 1922. Serial No. 538,295. 2 Claims. (Cl. 232—35.)



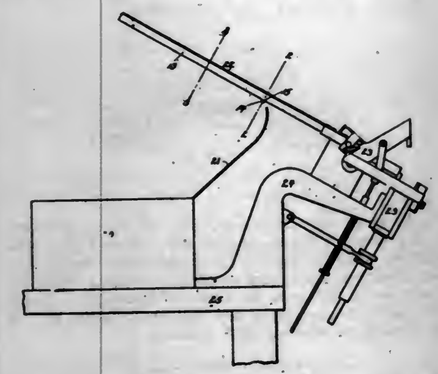
1. The combination with a mail box having a swinging door; of a signal member, a spindle for said signal member pivoted in the box and keyed to the signal member, an arm rigidly attached to said spindle, and means inserted between said door and said arm for operating the signal member through the swinging of said door, said means including a rod pivoted on said arm, a projection on said door adapted to engage with said rod when the door is closed, a false bottom in said box, a shaft upon which the false bottom is secured, a lever rigidly connected with said shaft, said lever having sliding engagement with said rod, said false bottom having a slight preponderance at the end away from said door, whereby said false bottom in co-operation with said lever is adapted to position said rod in the path of said projection upon the swinging of said door, when said bottom is being actuated by the depositing of a light object thereupon adjacent to the door.

1,456,544. COUPLED LIGHT DISSOLVER FOR MOTION-PICTURE MACHINES. ROGER N. FLEMING, Detroit, Mich. Filed Nov. 10, 1921. Serial No. 514,330. 5 Claims. (Cl. 88—16.)



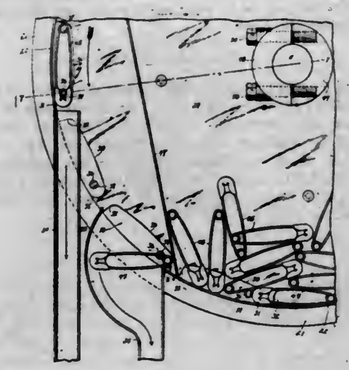
1. The combination with a pair of spaced moving picture projecting machines, of a light dissolver attachment therefor for permitting the simultaneous cutting off of one machine and the simultaneous projection of the other machine and consisting of a frame secured to each one of the machines, a dissolver plate secured to each frame for movement toward and away from the path of the projection means and having a relatively small opening therein, light trip levers pivotally secured to each plate, for normally closing said openings and a flexible cable connected to said light trip levers.

1,456,545. OVERFLOW MECHANISM FOR CHUTES. HENRY M. GLEASON, Waterbury, Conn., assignor to Chase Companies, Waterbury, Conn., a Corporation. Filed July 21, 1922. Serial No. 576,487. 4 Claims. (Cl. 193—31.)



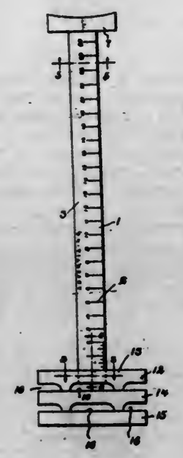
1. A chute having an overflow-opening, and a gate normally closing the said opening and furnished with a tripping-arm normally intersecting the path of travel through the chute.

1,456,546. SORTING MACHINE. HENRY M. GLEASON, Waterbury, Conn., assignor to Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Aug. 10, 1922. Serial No. 580,867. 10 Claims. (Cl. 88—92.)



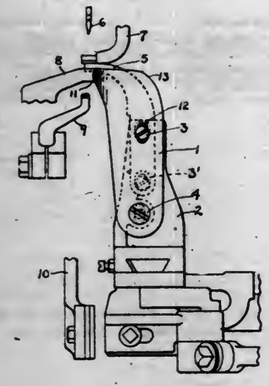
1. A sorting mechanism having an inclined revolving dial provided in the periphery of its upper face with a continuous series of laterally opening pockets, of a hopper, and two chutes, one of which has its mouth located above the plane of the said pockets and the other of which has its mouth in the said plane.

1,456,547. TAILOR'S RULE. EDWARD A. GRUBER, Chicago, Ill. Filed June 21, 1921. Serial No. 479,330. 1 Claim. (Cl. 33—2.)



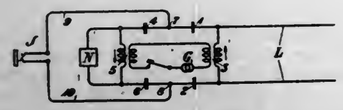
In a tailor's rule an elongated graduated body, a graduated rule slidably carried thereby, a cross head carried by one end of said sliding rule and having its outer edge concavely curved, and a trousers bottom marking head removably carried by said body, and comprising a plurality of connected portions for marking the various folds of a trouser cuff.

1,456,548. STITCHING-MACHINE GUARD. TANNY C. GUSEMAN, Houston, Tex. Filed Jan. 10, 1921. Serial No. 436,281. 1 Claim. (Cl. 112—40.)



In a device of the character described, a stitch-forming mechanism including a table, a presser foot, a needle, a looper, a gage slide and a stationary edge gage, in combination with a guard comprising a sheet of resilient material secured adjustably to said gage slide and fitted along said edge gage in a position spaced to one side of said looper and needle, a laterally extending lip on said guard, the upper edge thereof being on a level with the top of said table, and the lip being bent outwardly and adapted to contact only with the forward end of said table, for the purpose described.

1,456,549. COMPOSITE SIGNALING CIRCUITS. BAXTER P. HAMILTON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 29, 1919. Serial No. 320,705. 7 Claims. (Cl. 179—4.)

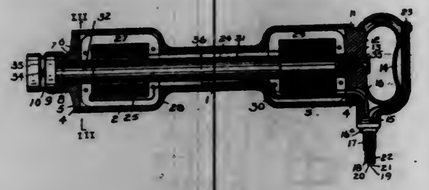


1. In a composite signaling system, a metallic transmission line, a local balanced circuit associated therewith, means to compensate for the connection of the line to said balanced circuit whereby neutral points may be established, means to apply signaling currents to both sides of said balanced circuit for transmission over both sides of said metallic line, and terminal signaling apparatus connected to points of said balanced circuit which are neutral with respect to said signaling currents.

1,456,550. ELECTRIC DRIVE MECHANISM. GEORGE B. HAMPTON, Pittsburgh, Pa., assignor, by direct and mesne assignments, to Central Electric Tool Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 10, 1917, Serial No. 141,584. Renewed Aug. 30, 1921. Serial No. 497,048. 7 Claims. (Cl. 172—126.)

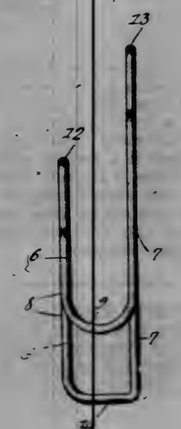
1. A reciprocating apparatus adapted to be supplied from an alternating current circuit, wherein a core is arranged to be repeatedly moved into and out of a solenoid and wherein an electromagnetic switch means is

arranged to alternately energize and de-energize the solenoid, characterized by the fact that a winding of the electro-magnetic switch is connected in circuit with the



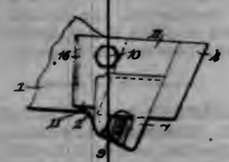
solenoid to reduce the current in the winding and open the switch when the core is moved into the solenoid to increase the reactance thereof.

1,456,551. CLIP. MARK P. HARVEY, Little River, Fla. Filed July 11, 1922. Serial No. 574,138. 1 Claim. (Cl. 24—261.)



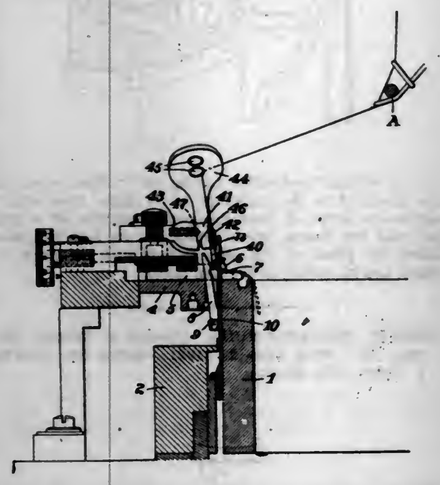
A clip comprising a length of wire formed into opposed connected sections, each of the sections including a relatively long arm and a short arm, said arms adapted to grip an article therebetween, the upper ends of the relatively long arms lying in a line at an oblique angle with respect to a line parallel with the arms.

1,456,552. TOOL HOLDER. JOSEPH HENNING, Newburgh, N. Y. Filed Sept. 9, 1921. Serial No. 499,435. 1 Claim. (Cl. 29—100.)



A tool holder of the class described comprising a head having a diagonally arranged face provided with a transverse groove, an enlargement formed on the face on end thereof and provided with an over-hanging extension, a tool having a rib adapted to engage the groove and a clamp provided with a pair of shoulders for engaging one corner of the tool and a face for engaging the face of the head, an over-hanging finger provided on the clamp for engaging the side of the head, means for holding the clamp in firm engagement with the head, a threaded aperture extending through the clamp so as to terminate adjacent the tool and a set screw situated in the aperture so as to bear against the tool for raising and lowering the same.

1,456,553. DETECTOR AND STOP-MOTION MEANS FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, and WILLIAM O. TAYLOR, Limerick, Pa., assignors to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Original application filed Feb. 21, 1920, Serial No. 360,440. Divided and this application filed Aug. 8, 1921. Serial No. 490,647. 10 Claims. (Cl. 66—7.)



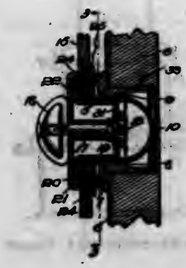
7. In combination in a knitting machine, needles with operating means therefor, a set of instruments cooperating with the needles in knitting, means for operating said instruments, a yarn guide movably mounted and contacting with a disabled instrument to be moved by said contact from normal position, and stop motion means controlled by the movement of the yarn guide, substantially as described.

1,456,554. FASTENER. BENJAMIN F. HUBBELL, Cambridge, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Aug. 13, 1921. Serial No. 491,911. 6 Claims. (Cl. 24—218.)



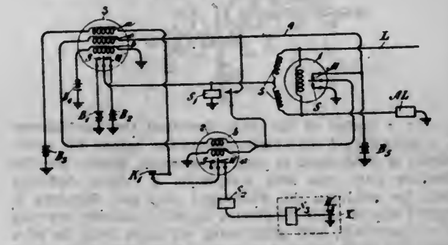
3. A fastener comprising, in combination, a stud having a head and a neck, a socket including a plate having a stud-receiving aperture therein and providing a reversely bent lip surrounding said aperture and an upstanding flange slotted to permit passage therethrough of a stud-engaging jaw and a notch through said plate and said lip communicating with said aperture.

1,456,555. FASTENER. BENJAMIN F. HUBBELL, Cambridge, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Aug. 13, 1921. Serial No. 491,912. 3 Claims. (Cl. 24—211.)



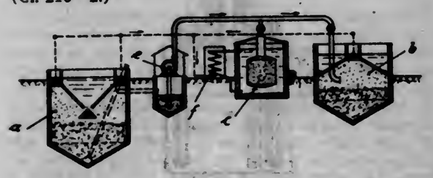
1. A fastener comprising a socket, in combination with a stud presenting a body portion projecting on one side of a flexible carrying medium, a generally flat spring carried by said body portion, the plane of said spring perpendicular to the axis of said body portion, and locking means for holding said spring locked in engaged relation to said socket, said locking means cooperating with an operating part extending into said body portion and projecting on the opposite side of said carrying medium from said body portion.

1,456,556. DUPLEX TELEGRAPH SYSTEM. EARL A. HUDSON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 29, 1921. Serial No. 525,598. 4 Claims. (Cl. 178—58.)



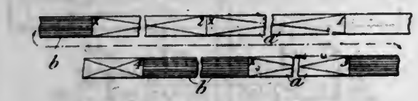
1. A duplex telegraph set comprising a polarized line relay, a polarized pole changer relay having marking, spacing and holding windings, a polarized control relay having marking and spacing windings differentially arranged, a circuit normally including in series both of the windings of said control relay and the holding winding of said pole changer relay, and means controlled by the operation of said line relay for short circuiting one of the windings of said control relay.

1,456,557. CLEARING PLANT WITH SLUDGE DECOMPOSITION. KARL IMHOFF, Essen, Germany. Filed Aug. 14, 1922. Serial No. 581,910. 2 Claims. (Cl. 210—2.)



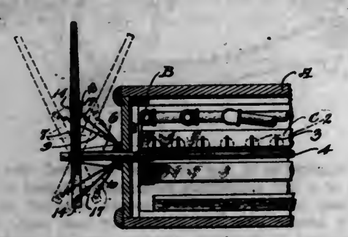
1. A method of decomposing waste-water sludge in digestion chambers, consisting in keeping part of the sludge for some time in a separate hatching chamber at an increased temperature favourable for the methane putrefaction, and then mixing the same with the other sludge, substantially as and for the purpose set forth.

1,456,558. PICTURE FILM FOR COMBINED CINEMATOGRAPH AND PHONOGRAPH PRODUCTION. ARTHUR THOMAS METCALF JOHNSON, Streatham, London, England. Filed Apr. 26, 1921. Serial No. 464,519. 2 Claims. (Cl. 88—16.2.)



1. For use in combined cinematograph and phonograph production, a sectionized picture film comprising a succession of speaking sections as herein defined, provided with different numbers or letters, to serve as starting indications, and with characteristic symbols or marks differing from the numbers or letters and adapted to serve as stopping indications, each of the starting indications being arranged at the commencement of its speaking section and in front of the series of pictures in such section and each of the stopping indications being arranged at the terminal end of the speaking section and after the series of pictures in such section, the successive starting and stopping indications serving to indicate to an attendant, the times when each of a number of specially prepared voice record devices correspondingly numbered or lettered to the speaking sections and each adapted to produce sounds corresponding in kind and duration with those which an actor in the correspondingly numbered or lettered speaking section is supposed to be making, is to be started and stopped, so as to ensure synchronism between the assumed voice of the actor or actors in the successive speaking sections and the corresponding sound effects produced by the successive voice record devices, substantially as described.

1,456,559. EGG-TURNING MEANS FOR INCUBATORS. GROVER C. KITCHEN and CLAIRE KITCHEN, Sonoma, Calif. Filed Nov. 6, 1922. Serial No. 599,369. 6 Claims. (Cl. 119—44.)

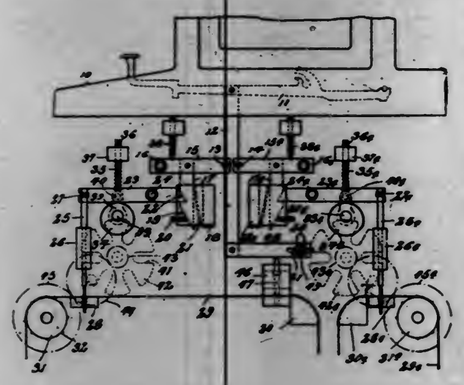


2. In egg turning means for incubators, the combination with an egg tray and rotatable egg supports yieldably mounted in said tray, of a bar member reciprocally mounted beneath one end of the egg supports and actuating the supports, and a lever pivotally mounted on the incubator and connected with the bar member for imparting reciprocal movement thereto from time to time to adjust the supports.

1,456,560. AUTOMATIC TYPEWRITER. TASSO D. METROPOLE and TASSOS M. COTTAKIS, New York, N. Y. Filed Oct. 25, 1921. Serial No. 510,210. 4 Claims. (Cl. 197—20.)

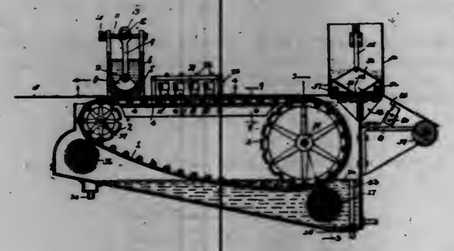
1. In combination with a writing machine including the key bar, means to feed a perforated record strip, a

rod to enter a perforation thereof, a continuously operating cam, a connection between the rod and key bar including a releasable portion, whereby the cam may be engaged by said connection when the rod enters a perforation and said connection moved to actuate the key



bar, and means operable upon continued movement of the connection to operate the releasable portion to permit the key bar to return to normal position in advance of the return of the connection and rod to normal position.

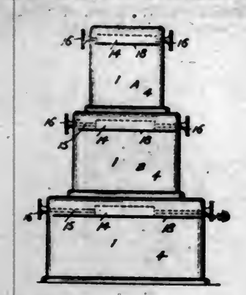
1,456,561. APPARATUS FOR MAKING ABRASIVE BELTS. ROBERT A. MOORE, Cleveland, Ohio. Filed Apr. 20, 1920. Serial No. 375,259. 8 Claims. (Cl. 91—43.)



1. In apparatus of the character described, the combination of a belt supporting mechanism adapted to support a belt passing thereover, means adapted to distribute a binder over the surface of said belt, other means adapted to distribute abrasive over the binder on such surface, and means adapted to remove any abrasive and binder from the reverse surface of said belt.

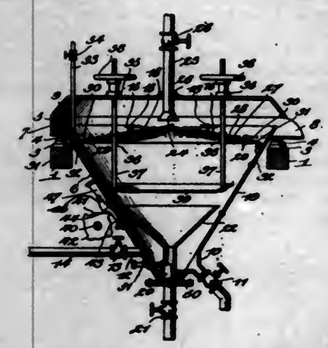
1,456,562. STATIONERY CABINET. RICHARD NEDDO, Norfolk, Va. Filed June 27, 1918, Serial No. 242,210. Renewed Oct. 7, 1922. Serial No. 593,144. 4 Claims. (Cl. 271—39.)

2. In a stationery dispensing cabinet, the combination with the outer casing having a vertical wall with a delivery slot near its top, a discharge roller mounted on the casing and positioned near said slot, a flat paper holder arranged to swing bodily and longitudinally upward at its delivery end and to support a pile of paper articles independently of the walls and bottom of the casing, an inclined stop for the paper articles at the rear end of the support, the drawer adapted to be inserted into the casing on horizontal lines extending



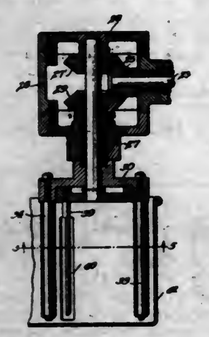
toward the discharge roller and hinged to the paper holder.

1,456,563. ORE CLASSIFIER. ALBERTO NORIEGA, New York, N. Y. Filed Oct. 4, 1920. Serial No. 414,395. 6 Claims. (Cl. 83—82.)



1. In a device of the class described the combination of a plurality of concentric receptacles, means for maintaining a fluid level in said receptacles, means for discharging pulp into said receptacle, a conical deflector plate for receiving the discharged pulp and directing it against one of said receptacles to effect variable rebound of the particles, said plate being arranged with its edge below the fluid level; and means for varying the fluid level for varying the rebound.

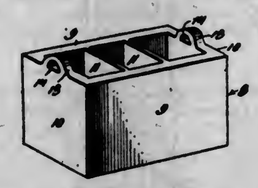
1,456,564. DOUGH-MIXING MACHINE. EDGAR E. O'CONNELL, Washington, D. C. Filed Apr. 7, 1923. Serial No. 630,563. 7 Claims. (Cl. 259—84.)



1. In a dough mixing machine, in combination, a receptacle, a series of stirring rods within the receptacle,

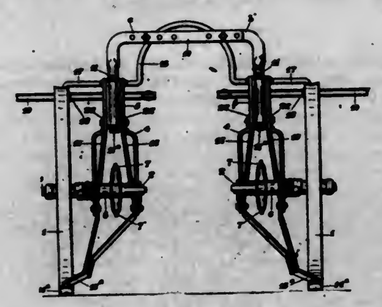
rotatable sleeves on said rods, said series of rods being revoluble in the receptacle, and at least one stirring rod revoluble within the cycle of revolution of the series of stirring rods and within the receptacle.

1,456,565. STORAGE-BATTERY CONTAINER. RICHARD B. OWEN, Washington, D. C. Filed Feb. 2, 1921. Serial No. 441,836. 3 Claims. (Cl. 206—2.)



2. A container for storage batteries molded from a material commercially known as paramold.

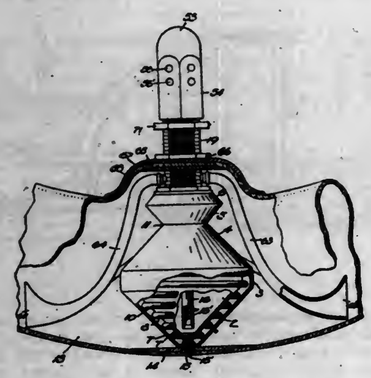
1,456,566. CULTIVATOR. WESLEY A. PAUL, deceased, late of Moline, Ill., by Lola V. Paul, administratrix, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 26, 1915. Serial No. 57,930. 5 Claims. (Cl. 97—153.)



1. In a cultivator, the combination of wheeled axles adapted to independent movement forwardly or backwardly in parallel relation to the line of work, cultivating devices pivotally connected to each axle, a main arch connecting said axles and supported thereon by vertical pivots, a draft arch in constant parallel relation to the main arch, means to connect each axle with the draft arch, said connection and the pivotal connections of the cultivating devices and the main arch being in the same longitudinal vertical plane, and a draft device on each end of the draft arch.

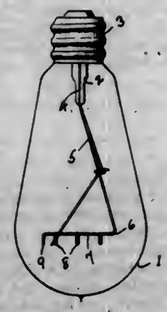
1,456,567. PNEUMATIC TUBE. MAURICIO REBOLLAR Y PLANCHT, Habana, Cuba. Filed May 25, 1920, Serial No. 384,105. Renewed Feb. 5, 1923. 3 Claims. (Cl. 152—11.)

3. In pneumatic tubes, a supplemental closed fluid container, collapsible through the flattening down of its walls and arranged in the pneumatic tube and whose inner cavity is divided in two compartments, an upper one of less volume and whose walls yields in less degree than the walls of the lower compartment which is of larger volume, both compartments being in communication with one another through a tube which leads from the former towards near the bottom of the second one, a cylindrical fluid feeding member from the exterior which is connected with the upper compartment of the supplemental fluid container and passes through the wall of the pneumatic chamber, said member being provided with a central longitudinal hole connected to a pressure fluid feeding tube from the exterior and which hole serves as lodging for two opposite valves connected through a helical spring and of which one opens inwardly and the other one loosely slides through suitable guides inside an extension of said central hole, in combination with a seat formed in a cylinder connected to the bottom of the upper compartment of the supplemental fluid container directly above the tube communicating both compartments, said member being also provided with four longitudinal holes arranged crosswise around the central hole and terminating short of the inner end of the said



member, two of said holes communicating with the extension of the central hole and being provided with valves which open inwardly one of the other two holes having a valve which opens inwardly, these last two mentioned holes communicating beneath the level of said valve with nozzled rubber tubes leading from in the interior of the pneumatic tube in opposite directions, and the four longitudinal holes being united at the top of the said member by an annular recess, a disc cover closing this recess and which is tightened by the tension of a spring coiled on the pressure fluid feeding tube and whose tension is regulated by a nut screwed on said tube, said cover acting as a safety valve.

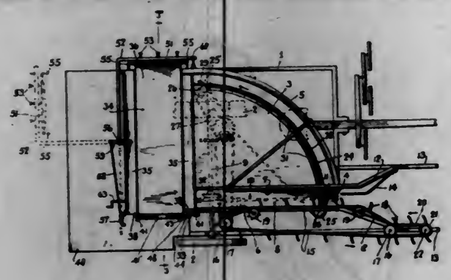
1,456,568. MULTIPLE-FILAMENT LAMP. GEORGE E. QUANDT, Lockport, N. Y. Filed June 29, 1922. Serial No. 571,827. 2 Claims. (Cl. 176—26.)



1. In an electric lamp comprising an inner glass stem having lead wires running therethrough, a series of

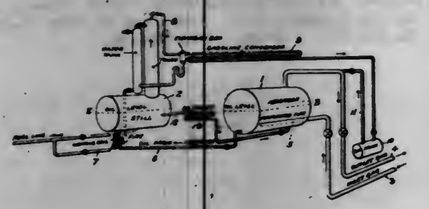
independent filaments, means for supporting said filaments, a spring filament contactor, means for supporting said contactor, and means for forcing said contactor into engagement with said filaments.

1,456,569. CORN HARVESTER. JOHN E. REECE and ASA C. REECE, Butler, Tenn. Filed Nov. 15, 1920. Serial No. 424,272. 5 Claims. (Cl. 56—82.)



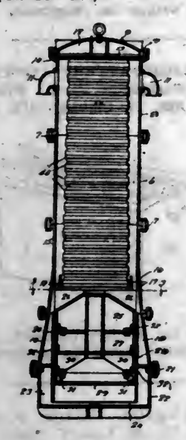
1. A corn harvester comprising a frame, cutting means at the front end of said frame, shocker means at the rear end of the frame and means for carrying the stalks of corn from the cutting means to the shocker means and turning them at right angles as they travel along, said means including an inclined platform, a traveling member moving in a curved path on the platform for engaging the butts of the stalks and means at the top of the platform for engaging the tops of the stalks for preventing longitudinal movement of the stalks.

1,456,570. METHOD OF OPERATION EMPLOYED IN EXTRACTING LIQUID VAPOR FROM A GASEOUS CARRIER. CHARLES C. REED, Clarksburg, W. Va., assignor to The Hope Construction and Refining Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,190. 1 Claim. (Cl. 196—25.)



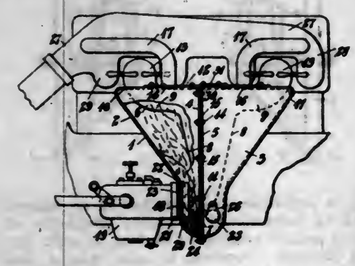
In the recovery of gasoline from natural gas according to the absorption process, the method herein described of maintaining circulation between a pool of menstruum in an absorption chamber open for the escape of gas and a pool of heated menstruum in a still chamber open for the escape of gasoline vapor and through streams diverse in specific gravity, which consists in maintaining the two chambers at a common general level, leading the return pipe from the still out at a higher level than the point of ingress of the entrance pipe to the still, and cooling the return stream.

1,456,571. VULCANIZING PRESS. CARL E. RETT, Akron, Ohio. Filed May 3, 1922. Serial No. 558,008. 13 Claims. (Cl. 18—17.)



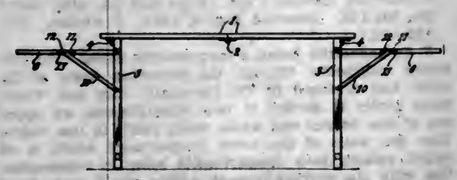
1. A vulcanizing press comprising an upright chamber provided at its lower end with an internal barrel, a condensate chamber surrounding said barrel, and a hydraulic plunger working in said barrel.

1,456,572. PREHEATER. JAMES I. RICHEY, Cincinnati, Ohio. Filed Dec. 14, 1921. Serial No. 522,425. 12 Claims. (Cl. 123—122.)



1. A preheater comprising a hollow body to surround an internal-combustion-engine fuel-intake pipe and having a part to be clamped between said pipe and an adjacent connected part.

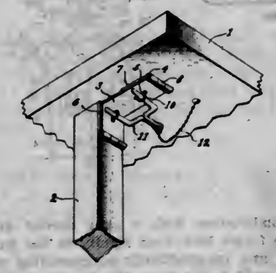
1,456,573. FOLDING PORTABLE TABLE. ELMER O. ROBERTS and RAYMOND F. DOTSCH, Olympia, Wash. Filed June 27, 1922. Serial No. 571,147. 1 Claim. (Cl. 45—47.)



A folding portable table comprising hingedly connected top sections, oppositely disposed pairs of legs hinged to the end portions of the same, leaf extensions of sizes approximately corresponding to the space between the

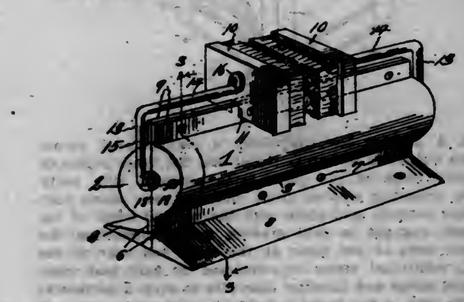
opposite legs of the several pairs, said leaf extensions being hinged adjacent certain of their ends to and between the upper portions of said legs and snugly receivable therebetween in substantial parallel relation thereto at times, and adapted to be swung inwardly at substantially right angles to such legs at other times, arms pivoted to the inner sides of the intermediate portions of said legs having their free ends bifurcated, and plates having longitudinally spaced studs thereon secured to the opposite end portions of said leaves, receivable in said bifurcated ends of the arms, as and for the purpose set forth.

1,456,574. HINGE. ELMER O. ROBERTS and RAYMOND F. DOTSCH, Olympia, Wash. Filed June 27, 1922. Serial No. 571,148. 3 Claims. (Cl. 16—163.)



3. In combination with a folding table including a top and supporting legs, hinges connecting said legs to the under side of portions of said top comprising a substantially right angularly formed arm having bearing sleeves formed on its opposite extremities, attaching plates having bearing sleeves formed on its opposite extremities, attaching plates having a bearing sleeve on certain of their ends arranged adjacent the bearing sleeve on said arm, pintles passing through said adjacent bearing sleeves for inter-connecting the same, one of said plates being connected to the upper side of the adjacent table leg and the other attaching plate being connected to an adjacent portion of the under side of the table top, outwardly extending staples on certain of the sides of said attaching plates adapted to be received through openings in the angular portion of said arms, at times, and a forked locking member adapted to have the oppositely disposed legs thereof passed through said staples upon their engagement through the openings in said right angularly formed arm connected to the under side of an adjacent portion of the table top.

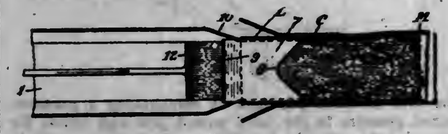
1,456,575. SHOE CLEANER AND SCRAPER. JESSE N. ROBERTSON, Portland, Oreg. Filed May 10, 1921. Serial No. 468,209. 3 Claims. (Cl. 15—112.)



1. A shoe cleaning device comprising a cylindrical casing having a cylindrical chamber therein and closed

end walls, U-shaped members having their arms extending towards each other in axial alignment, the arms of each U-shaped member being in parallel relation, said U-shaped members being formed from rod material, the lower arms being axially disposed within the cylindrical chamber of the casing, and extending through apertures in the end walls thereof, a longitudinally disposed rib carried by the upper side of the casing, brushes carried by the ends of the upper arms and slidably mounted on the rib, heads carried by the inner ends of the lower arms and slidably mounted in the chamber of the casing, and coiled springs interposed between said heads and the end walls of the casing.

1,456,576. PACKAGING DEVICE. GEORGE A. ROBINSON, Norfolk Downs, Mass., assignor to Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass., a Corporation of Massachusetts. Filed Jan. 18, 1922. Serial No. 530,207. 7 Claims. (Cl. 226—18.)



1. A smoother for a lined carton comprising a trough-like member having a wedge-formed leading end, and a cover for said member having its forward edge tapered to cooperate with said wedge-formed leading end in smoothing back the lining as the device is entered into the carton.

1,456,577. UNIVERSAL-JOINT CONNECTING ROD. EDWARD ROSENTHAL, Brooklyn, N. Y. Filed Apr. 11, 1922. Serial No. 551,670. 1 Claim. (Cl. 74—108.)

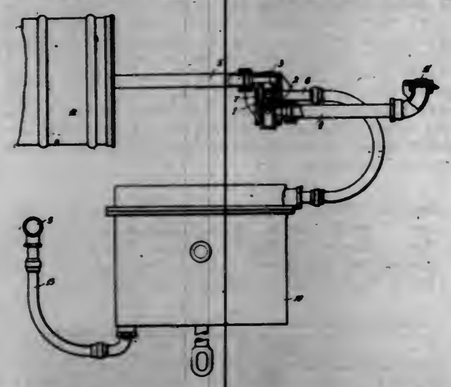


The combination with a piston having a pair of opposed inreaching lugs containing a diametrical bore, a wrist pin disposed therein, a connecting rod, a cap therefor, said rod and cap containing a spherical opening, rectangular flanges on said rod and cap, the lateral edges of said flanges fitting between the inreaching lugs, bolts securing said cap to said rod, a sleeve on said wrist pin, said sleeve being disposed wholly within the spherical opening in said rod and cap, and a sphere fitting the mentioned opening, said sphere being mounted on said sleeve.

1,456,578. PNEUMATIC BRAKE. ALFRED SCHEUER, Vienna, Austria, and HUGO SCHEUER, Zbaim, Czechoslovakia, assignors to the Firm Gebrüder Hardy, Vienna, Austria. Filed Aug. 8, 1921. Serial No. 490,565. 3 Claims. (Cl. 303—4.)

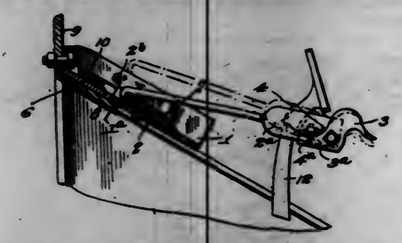
1. In pneumatic brakes a valve casing a pipe connecting the said valve casing with a brake cylinder, another pipe connecting the valve casing with the auxiliary reservoir and a third pipe connecting the valve casing with the hand actuated brake release valve, a movable valve within the said valve casing adapted to establish in one position communication between the first named and the last named pipe and to simultaneously shut the second named pipe and to establish in another

position communication between the first named and the second named pipe and to simultaneously shut the third named pipe and means for moving the said valve into



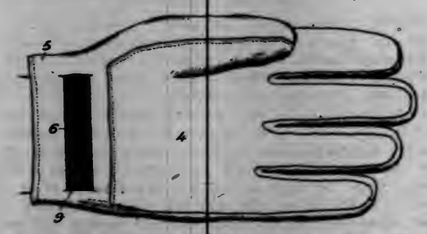
the first of these positions on establishing a predetermined pressure in the third named pipe and means for returning the said valve into the second of these positions.

1,456,579. BRAKE AND CLUTCH LOCK. JOSEPH S. SIMS, Idaho Falls, Idaho. Filed Nov. 13, 1920. Serial No. 423,966. 6 Claims. (Cl. 74—81.)



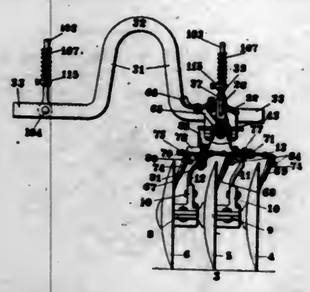
1. A device for retaining the clutch and brake pedals of an automobile in operative position, comprising a lever pawl adapted for locking connection with the shank of the pedal and having a catch at its forward end, a yoke clip mounted on said shank below the pedal tread thereof and pivotally supporting the rear end of the said lever pawl, a supplemental lever having a foot tread at one end pivotally mounted on the rear end of the lever pawl, the other end adapted for movable engagement with the rear end of the lever pawl whereby the catch end may be lifted, and ratchet lugs mounted on the footboard of the car adapted to be engaged by the said lever pawl.

1,456,580. GLOVE. JOHN VINCENT SULLIVAN, Fremont, Ohio. Filed May 3, 1922. Serial No. 558,137. 3 Claims. (Cl. 2—9.)



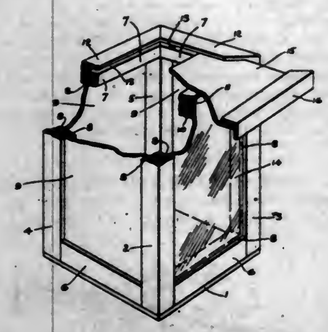
1. A glove having a wrist portion provided with registering apertures, and a wrist band passing through said apertures, said band lying wholly outside of the glove on the front and back portions thereof, substantially as set forth.

1,456,581. DISK CULTIVATOR. CHARLES E. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Apr. 24, 1918. Serial No. 230,497. 6 Claims. (Cl. 97—224.)



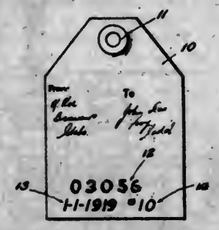
1. The combination with a gang carrier and its support, of the frame bars fixed rigidly to the gang carrier, the rocking and longitudinally reciprocating scraper bar mounted in said frame bars, the downturned arms rigid with the rocking and reciprocating bar, each arm having a rounded face, the scrapers each pivoted at a point near its center to a down-turned arm to permit it to vibrate around lines longitudinal of itself and also around a horizontal axis, and means for yieldingly holding each scraper against the rounded face of its arm.

1,456,582. PACKING CASE. ROBERT WOOD and CORNELIUS GARRETT, Vancouver, British Columbia, Canada. Filed Sept. 28, 1922. Serial No. 591,185. 3 Claims. (Cl. 217—56.)



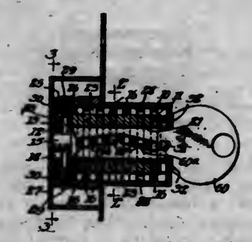
1. A packing box comprising a bottom wall, corner posts extending upwardly therefrom, the inner angularly related sides of the posts being provided with vertically extending grooves, front, side, and rear panels positioned between said posts with the vertical edges of the panels engaged in said grooves, strips connecting the upper ends of the posts at the sides and rear of the box, additional strips superimposed on said first mentioned strips and coacting therewith to form a horizontal guide way, a top panel movable in said guide way and means for securing the adjacent edges of the top and front panels together.

1,456,583. INDIVIDUAL RECORDING DEVICE FOR SHIPPING PURPOSES. WALTER H. BECKER, Bruneau, Idaho. Filed Aug. 2, 1919. Serial No. 314,848. 4 Claims. (Cl. 283—20.)



1. A shipping tag provided with a space for an address, a permanent record producing symbol denoting the sending office placed adjacent one edge of the tag, other symbols denoting the sending date and the individual number of the tag placed between said edge and the first symbol.

1,456,584. KEY LOCK. DILLWYN M. BELL, Chicago, Ill. Filed Apr. 22, 1920. Serial No. 375,869. 14 Claims. (Cl. 70—92.)



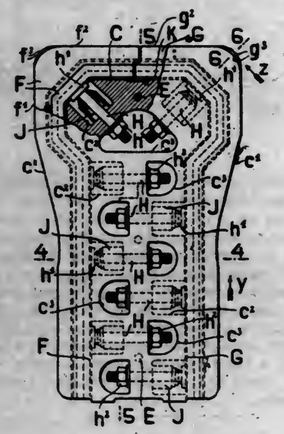
1. In a master key cylinder lock, a casing, a barrel rotatably mounted therein, a plurality of tumblers carried by said barrel and normally engaging said casing, a portion of said tumblers being operable by means of a master key, and another portion thereof being operable by means of an individual or pass key, the operation of either of said portions permitting rotation of said barrel within said casing.

1,456,585. HEADLIGHT LENS. LOUIS BELL, West Newton, Mass., assignor to Edward N. Goding, trustee, Newton, Mass. Filed Feb. 13, 1920. Serial No. 358,535. 3 Claims. (Cl. 240—48.4.)



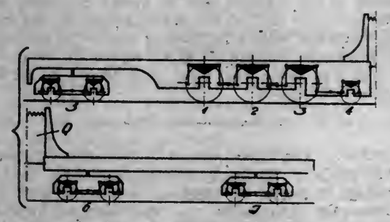
1. In combination with a headlight having an outwardly faced lens bearing and an inwardly faced lens clamping front, a lens having refracting elements of predetermined function with reference to a definite vertical axis disposed centrally thereof, and an annular clamping margin surrounding said elements, the rear face of said margin being roughened for non-slipping contact with the outwardly disposed bearing of said headlight and the front face of said annulus having circumferential diffusing elements entirely about its margin and extending within the grasp of the inwardly disposed bearing of the clamping front.

1,456,586. PRESS FOR MANUFACTURING SHEET METAL AND PLATES WITH TURNED-UP OUTER EDGES. KARL BÖHLE, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 7, 1921. Serial No. 475,589. 5 Claims. (Cl. 113—49.)



1. A flanging press for the manufacture of sheet metal plates flanged on their outer rim comprising a female die member having a flanging portion which consists of two parts lying opposite each other and a third part meeting said two first-named parts in rounded corners and a stamp having a flanging portion of a corresponding shape adapted to enter the flanging portion of said female die member in the direction of the longitudinal axis of the press, one of said flanging portions being rigid and the other consisting of two members movable relatively to each other in a plane perpendicular to said axis in two directions different from each other, said two movable members being adapted to elastically yield in the sense of increasing the clearance left between them and said rigid flanging portion.

1,456,587. BALANCING DEVICE BETWEEN TWO COUPLED CARRIAGES FOR EFFECTING DESIRED WHEEL PRESSURE. ISIDOR BROBERG, Skarsatra, Lidingon, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed Apr. 13, 1922. Serial No. 552,372. 5 Claims. (Cl. 105—73.)



1. A vehicle comprising two parts arranged one behind the other in the direction of movement and fixedly connected to each other, means located between said

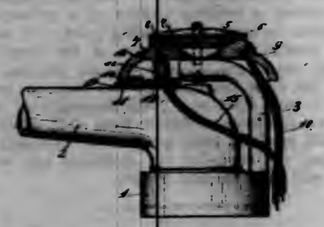
parts for obtaining the desired wheel pressures in the parts of the vehicle and including a resilient member producing on the running of the vehicle a substantially horizontal force having its points of application positioned in the parts of the vehicle adjacent the fixed connection between the said parts.

1,456,588. DITCHING MACHINE. JOHN S. DOBBMIER, Chalmers, Ind. Filed Oct. 20, 1921. Serial No. 509,105. 3 Claims. (Cl. 37—102.)



1. A ditching machine comprising supporting beams having turned and separated end portions, a cutting blade mounted on said end portions, draft element supporting beams mounted on the opposite end portions of said beams, a depth regulating and guiding member mounted adjustably in said beams, means for controlling the last mentioned member, a driver's seat mounted on said beams and rearwardly of said cutting member, an elevator structure pivoted at its lower end to said turned and separated ends of the beams opposite said cutting member, and a transverse discharge conveyor suspended beneath the upper end of said conveyor to receive material therefrom.

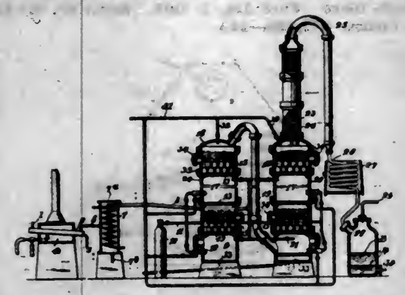
1,456,589. AUTOMATIC STOP MECHANISM FOR TALKING MACHINES. ALBERT EBNER, Stuttgart, Wurttemberg, Germany. Filed Sept. 14, 1920. Serial No. 410,382. 6 Claims. (Cl. 192—119.)



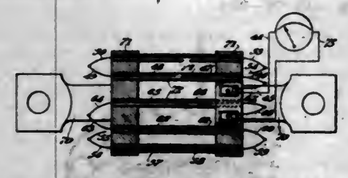
1. In an automatic stop device for talking machines of the electric motor driven type equipped with a movable tone arm, contact members adapted to be interposed in the electric motor circuit, one of said contacts being actuated by the tone arm, means permitting adjustment of the other contact whereby the moment of separation of the contacts may be varied according to the position of the end of the sound groove in the record, and indicating means facilitating correct adjustment of the adjustable contact to effect separation of the contacts at a predetermined point with respect to the sound groove in the record.

1,456,590. PROCESS OF MAKING HALOGENATED PRODUCTS. BYRON E. ELDRED, New York, N. Y., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Feb. 8, 1917. Serial No. 147,461. 23 Claims. (Cl. 260—157.)

1. The process of making chlorhydrins from the gaseous olefins which comprises establishing a flowing current of steam and adding to such current successive portions of chlorin and of gas comprising olefins, time for reactions to take place in such current being afforded between additions.

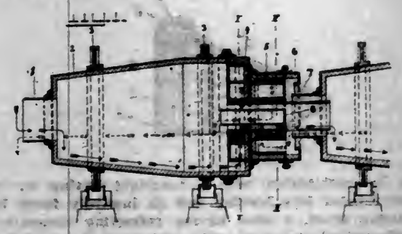


1,456,591. THERMAL AMMETER. WILLIAM N. GOODWIN, Jr., Newark, N. J., assignor to Weston Electrical Instrument Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 24, 1920, Serial No. 368,407. Renewed Oct. 17, 1922. Serial No. 595,182. 8 Claims. (Cl. 171—95.)



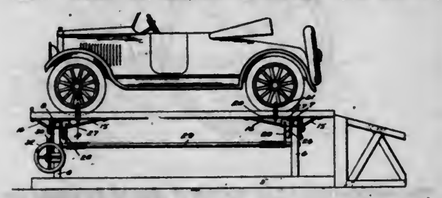
2. A thermal ammeter comprising terminals; a heating conductor heated by the current and connected to the terminals; a thermo-electric couple having its hot junction in thermal contact with the heating conductor; a thermal conducting means in thermal connection with at least one of the terminals, a portion of the thermo-couple conductors and of the electrical connecting conductors having thermal connection with a portion of the said thermal conducting means, and the cold ends of the couple extending from the said thermal conducting means into the air surrounding the terminals and heating conductors, the free lengths of the thermo-couple conductors and of the electrical connecting conductors between the cold ends and the aforesaid thermal conducting means being, together with the said thermal conducting means, thermally equivalent to a crresponding portion of the heating conductor.

1,456,592. AUTOMATICALLY-ACTING LIXIVIATION APPARATUS. GUSTAF HAGLUND, Falun, Sweden. Filed Feb. 16, 1922. Serial No. 537,104. 4 Claims. (Cl. 33—31.)



1. Automatically operating lixiviation apparatus consisting of a plurality of coacting horizontally disposed rotary drums each of which is provided with a feed opening, a transport device associated with each drum for carrying material to be lixiviated in a certain direction, another transport device associated with each drum for carrying the liquid in an opposite direction, both transport devices being located at the end of the drum opposite the feed opening and consisting of two spiral elevators, one of the transport devices receiving lixiviation material mixed with liquid from the interior of the drum, a conduit situated in the central part of the apparatus to which the said mass is transported and the conduit opening outwardly and serving to remove the treated mass, the other transport device receiving fluid from the outside, another centrally arranged conduit receiving fluid from the second mentioned transport device and having a smaller diameter than the first mentioned conduit and opening inwardly so as to return the fluid to the drum.

1,456,593. MOTOR-VEHICLE TILTING APPARATUS. ALBERT J. HOLLE, Rushford, Minn. Filed July 6, 1921. Serial No. 482,752. 3 Claims. (Cl. 214—1.)

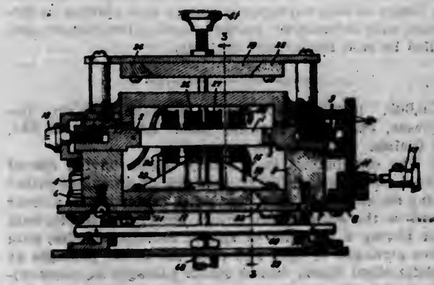


1. A tilting apparatus for motor vehicles and the like comprising a rigid support, a sidewise tiltable open frame eccentrically pivoted on said support and including a longitudinally extending track, slidably adjustable means for securing the wheels of a motor vehicle to the track and releasable means carried by the support and attached to the inner side of the frame for adjustably limiting the tilting movement thereof and to maintain the vehicle in various angular positions when secured on the frame.

1,456,594. PROCESS OF MAKING SODIUM-SILICO FLUORIDE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 3, 1922. Serial No. 549,208. 5 Claims. (Cl. 23—13.)

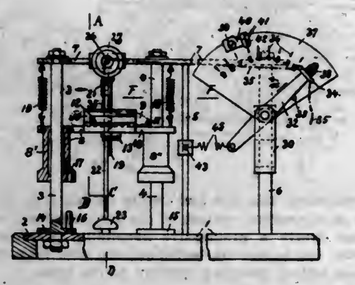
1. Process of making alkali silico fluorides which comprises acidulating phosphate rock with sulfuric acid, separating the resulting solution from insoluble material, adding to the solution an alkali in quantity insufficient to convert the phosphoric acid in the solution to the mono alkali salt, and recovering the resulting precipitate of alkali silico fluoride.

1,456,595. RECORDING APPARATUS. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 13, 1918, Serial No. 228,320. Renewed Apr. 4, 1923. 23 Claims. (Cl. 250—8.)



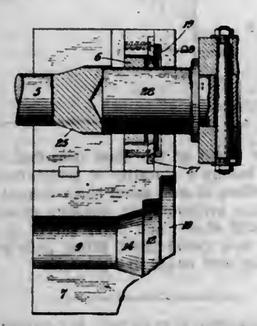
1. A selective signal receiving device, comprising a magnet, a diaphragm resonant to a definite frequency located in the field of said magnet and a stationary winding surrounding said diaphragm and adapted to carry current impulses of a frequency equal to that to which the diaphragm is resonant.

1,456,596. THREAD-TENSION-MEASURING DEVICE. JOHANN HUGENTOBLER, St. Gallen, Switzerland. Filed Nov. 28, 1921. Serial No. 518,174. 3 Claims. (Cl. 73—51.)



1. In a device of the character set forth, in combination with a suitable support, a drop member adapted for free fall on said support, and "dead-stroke" means, for preventing said drop member from bouncing-up again at the end of its descent, comprising a stationary pin of upwardly tapering conformation extending upwardly from said support in line with the drop of said drop member, the latter presenting a respectively oppositely tapering bore in its underface in axial alinement with said taper pin, adapted for jamming cooperation therewith on descent of said drop member.

1,456,597. METHOD OF FORGING. WILLIAM HUGHES, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company, a Corporation of Delaware. Filed Feb. 7, 1921. Serial No. 443,035. 4 Claims. (Cl. 78—81.)

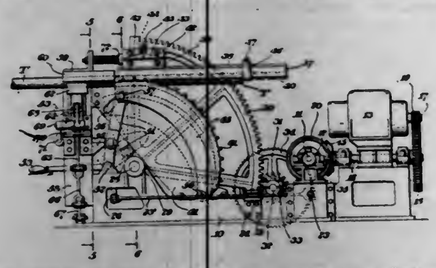


1. The method of forging rings which consists in upsetting the suitably heated end of a steel bar into slightly conical formation and squeezing the surplus metal into a circumferential flash located inwardly of the ends of such body, then moving such body, while still heated as aforesaid smaller end first, through a shear plate and engaging such body adjacent the base of the flash and shearing the same from such body.

1,456,598. TUBE-BENDING MACHINE. JOHN F. JACKSON, Milwaukee, Wis., assignor, by mesne assignments, to Kidwell Boiler Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 19, 1921. Serial No. 446,208. 13 Claims. (Cl. 153—46.)

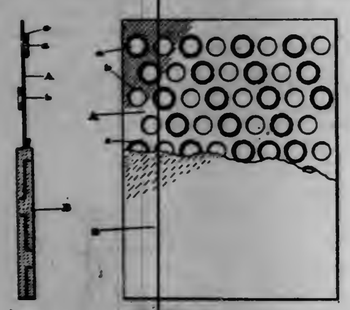
1. In a tube-bending machine, a supporting structure, a form member thereon having a curved tube-supporting

surface, a presser bar approximately tangential to said surface and having a longitudinal tube-engaging surface means for clamping at a point beyond the form member the body of a tube which is interposed between said surfaces in a plane longitudinally of the presser bar, means



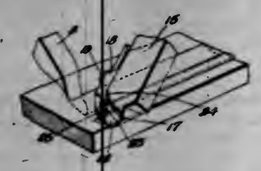
for supporting said bar and bodily rolling it in close relation to the curved surface of the form member, whereby the bar exerts a progressive nonsliding pressure upon the tube, and means for bodily moving said form member into and out of clamping relation to the tube.

1,456,599. PLASTER BOARD. RASMUS N. JENSEN, Sandy, Utah, assignor to Moses Paggi and Rasmus N. Jensen, trustees of Metalgyp Company, Salt Lake City, Utah. Filed Sept. 6, 1921. Serial No. 498,680. 2 Claims. (Cl. 154—45.9.)



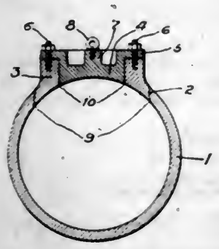
1. A plaster board of the class described, comprising a metal sheet having a plurality of perforations therein; flange like portions of said metal sheet formed in making said perforations protruding in opposite directions from the plane of said sheet; and cover sheets of plaster on both sides of said metal sheet filling said perforations and surrounding said flange like portions.

1,456,600. TURNSOLE-FITTING MACHINE. ALBERT E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,745. 3 Claims. (Cl. 12—27.)



1. In a machine for preparing turn soles of the type having an inwardly cut marginal channel lip, in combination, a channel lip forming knife, and a tool located at the inner side of the shank of said knife having an offset shoulder overlying the cutting blade of said knife provided with a concave lip engaging end acting to turn the lip inward over the between substance of the sole as it is fed.

1,456,601. MANHOLE FOR PIPES AND SIMILAR CONTAINERS. FRANCIS E. JOHNSON, Jr., Orange, N. J., assignor to The M. W. Kellogg Company, a Corporation of Delaware. Filed June 1, 1921. Serial No. 474,244. 1 Claim. (Cl. 137—76.)



The combination of an apertured pipe of forgeable material, an apertured pad of forgeable material extending into said pipe, one edge of said pad coming flush with the inner surface of said pipe, the outer surface of said pad being firmly united to the edge of said pipe.

1,456,602. CALLING DEVICE. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 17, 1920, Serial No. 352,001. Renewed Nov. 23, 1922. 28 Claims. (Cl. 179—90.)

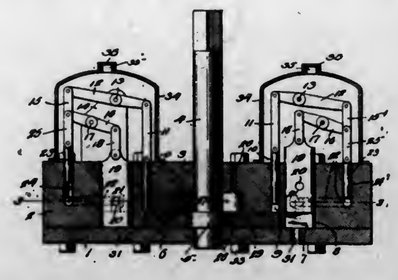


1. A device of the character described including a pair of interrupter contacts, an interrupter provided with a pair of wings normally resting between a pair of interrupter springs to which said interrupter contacts are connected, means for rotating said interrupter whereby the wings of said interrupter engage said springs to disengage said interrupter contacts, and a line circuit controlled by said interrupter contacts.

1,456,603. ROTARY ENGINE. MICHAEL B. KATO, Duquesne, Pa. Filed Jan. 15, 1920. Serial No. 351,691. 5 Claims. (C. 121—73.)

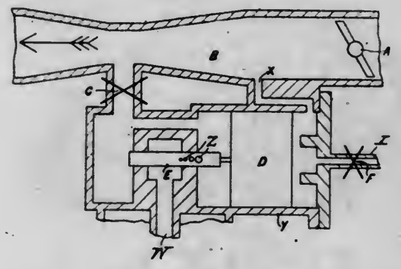
3. The combination in a rotary engine having spaced exhaust passages and intake passages, of an engine jacket having an annular steam chamber, a center shaft, a rotor affixed to the center shaft within the engine jacket, said rotor having a plurality of spaced radiating blades, gate valves arranged to open and close the intake passages at predetermined times, branch steam passages in communication with the intake passages, valve pistons operated by the steam from the aforesaid passages, gate valves

controlling the intake of steam, means for actuating the gate valves, said means also being arranged to operate the valve pistons, cam means arranged in a predetermined relation to the rotor blades to open the gate valves at



predetermined times to supply continuous steam pressure in one direction within the steam chamber acting on the rotor blades, said gate valves having their outer ends arranged to act as an abutment in the steam chamber when the gate valves open the steam ports.

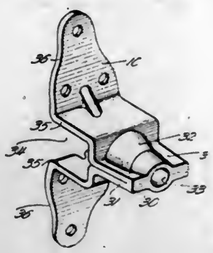
1,456,604. MEANS FOR CONTROLLING THE SUPPLY OF MIXTURE TO INTERNAL-COMBUSTION ENGINES. GEORGE KEITH and WILFRED AMBROSE WHATMOUGH, London, England. Filed May 13, 1922. Serial No. 560,851. 2 Claims. (Cl. 123—129.)



1. For controlling the supply of mixture to internal combustion engines, the combination with the induction pipe leading to the engine, of a governor device comprising a valve in the path of the fuel component flowing to the induction pipe, a piston determining by its position the extent of opening of said valve, a cylinder in which said piston is movable, a valve controlling the admission of fuel to said induction pipe, a fluid conduit communicating with the chamber of said cylinder, and means for controlling the passage of fluid through said conduit; whereby a progressive increase in the richness of the mixture as the vacuum in the induction pipe increases may be effected, the rate of increase being adjustable while the engine is running.

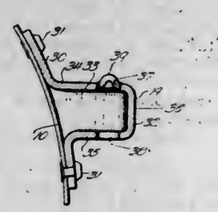
1,456,605. BRAKE-BAND FITTING. OTTO KONIGSLOW, Sr., Cleveland, Ohio, assignor to Otto Konigslow Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1921. Serial No. 494,343. 7 Claims. (Cl. 188—77.)

1. A brake band fitting consisting of a metal stamping having superimposed layers of metal, the layers being shaped to provide an aperture extending at right angles to the axis of the brake band, one end of each of said layers being bent away from the like end of the other



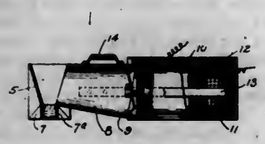
to form a slot having its side walls substantially parallel to said layers, each of said ends terminating in an arcuate portion for securing the fitting to a brake band.

1,456,606. BRAKE-BAND FITTING. OTTO KONIGSLOW, Sr., Cleveland, Ohio, assignor to Otto Konigslow Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1921. Serial No. 494,344. 3 Claims. (Cl. 188—77.)



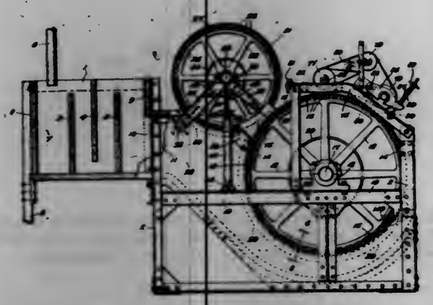
1. A brake band fitting comprising a plate shaped to conform to the cylindrical surface of the brake band, and a hollow rectangular protuberance stamped from the plate, the protuberance comprising a plurality of rectangular walls substantially in line with the strain to which the fitting is to be subjected, and walls for tying the walls together to prevent crumpling of the same when they are subjected to the strain.

1,456,607. AIR CIRCULATOR AND HUMIDIFIER FOR RADIATORS. RUDOLPH W. MENK, Joliet, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 8, 1920. Serial No. 363,961. 1 Claim. (Cl. 230—11.)



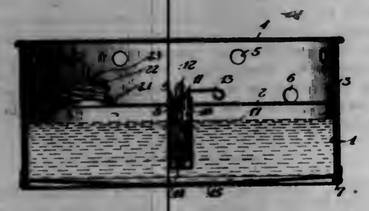
As an article of manufacture, a device for distributing and increasing the velocity of air to a heating radiator comprising a portable box-like structure having elongated side walls one of which is provided with an aperture; said structure being open at its top, a relatively short conduit fitting said aperture and discharging therethrough into said box-like structure, and means for forcing air through said conduit into said box-like structure.

1,456,606. FELTING MACHINE. TREADWAY B. MUNSON, New Orleans, La., assignor to C. F. Dahlberg, New Orleans, La. Filed Dec. 3, 1921. Serial No. 519,746. 9 Claims. (Cl. 92—39.)



1. In a machine of the class described the combination of a chamber; a pair of felting rolls within said chamber; means adapted to produce a hydrostatic pressure within said chamber against the surfaces of said rolls; means for varying the distance between said rolls whereby the thickness of the sheet being produced may be controlled; and means including a seal adapted to move when said distance is varied, to prevent the escape of fibers past the ends of said rolls to the interior thereof, substantially as described.

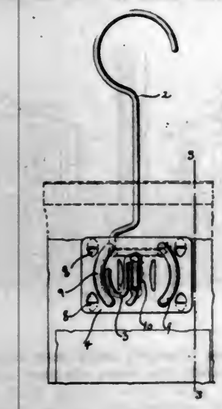
1,456,609. OIL HEATER. ISRAEL PUTNAM, Elmira, N. Y. Filed May 9, 1922. Serial No. 559,578. 1 Claim. (Cl. 158—94.)



In an oil lamp, the combination with a sealed reservoir, of a wick tube extending downwardly therein from the top wall of the reservoir and having a bottom closed by a foraminous diaphragm including a multiplicity of fine openings adapted to both allow water to instantly escape from the tube and oil to flow freely into the same, the bottom of the tube being spaced from the bottom of the reservoir, a wick in the tube, and means for supporting the wick in spaced relationship to the walls of the tube, so that an air space is left around the wick from the mouth of the tube down to the level of the oil therein.

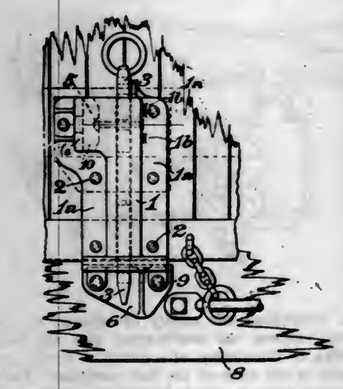
1,456,610. HANGER FOR MOTHPROOF BAGS. GEORGE ROTTMAN, New York, N. Y. Filed Sept. 24, 1921. Serial No. 502,973. 2 Claims. (Cl. 206—7.)

1. In combination with a bag, an inner plate having a hollow bead projecting therefrom, and an outer plate having hook-attaching means, interengaging means on said plates to clamp them upon opposite sides of the



bag, and a hook swiveled in said bead and foldable against said inner plate.

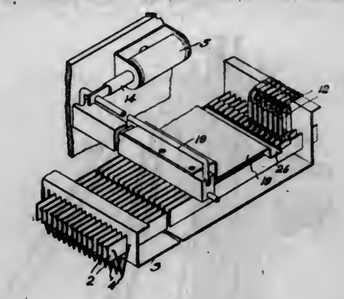
1,456,611. CAR-DOOR LOCK. JAMES C. FRITTS, Scranton, Pa. Filed Apr. 8, 1922. Serial No. 550,597. 3 Claims. (Cl. 291—189.)



. 1. A car-door lock, comprising a housing adapted to be secured to the door and having a longitudinal passage therethrough and a transverse hole intersecting said passage, a bracket adapted to be secured to the car sill and having an opening adapted to register with said passage, a locking bolt adapted to occupy said passage and opening and having a transverse hole therethrough, and a rivet adapted to be passed through said holes and to be headed over to prevent its withdrawal.

1,456,612. COMBINATION ORGAN-STOP ACTION. JOHN T. AUSTIN. Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 4, 1920. Serial No. 408,216. 6 Claims. (Cl. 84—344.)

5. A combination organ stop action comprising a trace, a magnet and its armature, the trace having a notch in which the armature is mounted and the magnet when energized acting to attract its armature, an im-



peller, and means for reciprocating the impeller whereby on its forward movement it engages the armature when it is thus attracted, to advance the trace.

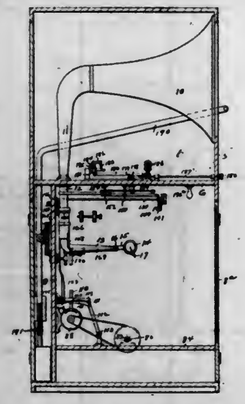
1,456,613. SAMPLE CASE. THEODORE B. BARTELS, San Francisco, Calif. Filed Apr. 5, 1921. Serial No. 458,688. 10 Claims. (Cl. 206—44.)



1. A sample case for rings and the like comprising a box provided with partitions forming parallel compartments in the body thereof; and a leaf hingedly connected to the box and having slots therein arranged to register with said compartments, said registering slots and compartments being arranged to receive and retain rings and other articles of jewelry.

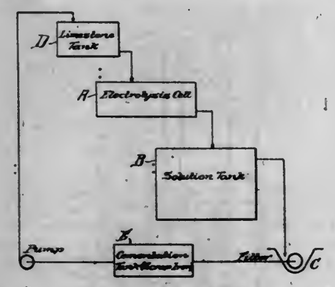
1,456,614. AUTOMATIC RECORD-TRANSFERRING MECHANISM FOR PHONOGRAPHS. GEORGE A. BEHLEN, Greenville, S. C., assignor of one-half to C. C. Rush, Greenville, S. C. Filed Sept. 21, 1921. Serial No. 502,166. 34 Claims. (Cl. 274—10.)

1. A device of the character described, comprising a traveling rotative turntable, a record receiving magazine, means for supporting a plurality of records therein, a record gripping and carrying element bodily movable with the table, said table being movable to a position beneath the magazine and the gripping element being movable to a position above the magazine, and means for effecting movement of the table upwardly into the magazine to deposit a record beneath the pile therein, and means for



effecting movement of the record gripping device downwardly into the magazine to engage the uppermost record therein.

1,456,615. PURIFYING SOLUTIONS OF IRON AND RECOVERING METALS FROM SUCH SOLUTIONS. DONALD BELCHER, Boston, and FREDERIC A. EUSTIS, Milton, Mass., assignors of one-half to Charles Page Perin, New York, N. Y., and one-half to said Eustis. Filed June 7, 1922. Serial No. 566,581. 27 Claims. (Cl. 204—57.)

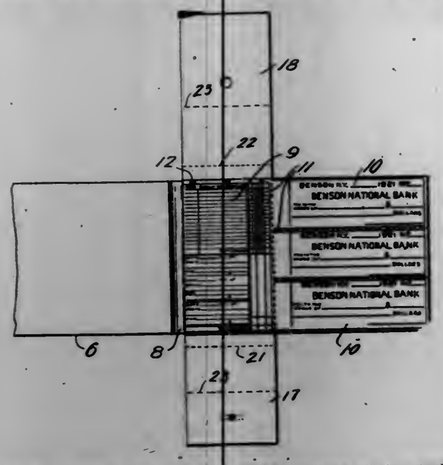


1. The art of treating iron sulphide carrying also other associated metals, which comprises leaching the material with a suitable solvent to dissolve iron and part at least of the associated metals, removing from the solution the soluble metals other than iron by precipitating the same, together with at most a minor fraction of the iron, and then electrolyzing the solution to deposit iron therefrom.

1,456,616. STUB BINDING AND ENVELOPE FOR CHECK BOOKS. EDWIN P. BENSON, New York, N. Y. Filed Jan. 24, 1921. Serial No. 439,335. 2 Claims. (Cl. 281—15.)

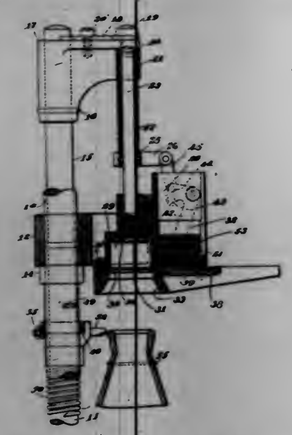
1. A device of the kind described, comprising a stack of stub-sheets and attached checks, each stub-sheet having detachably connected thereto a plurality of check-forms in vertical column, each stub-sheet having thereon indicia relating to bank deposits and also distinct indicia relating to the respective check-forms pertaining thereto, an envelope having a back co-extensive with the stub-sheets, edge-fold portions co-extensive with the thickness of the stack of stub-sheets and cover portions for covering the front of the stack of stub sheets, a main backing

underlying the stack of stub-sheets and checks and the envelope back and parallel thereto, and fastening means



passing through the horizontal edge portions of the stack of stub-sheets and through the upper edge portion of the envelope back and of the main backing.

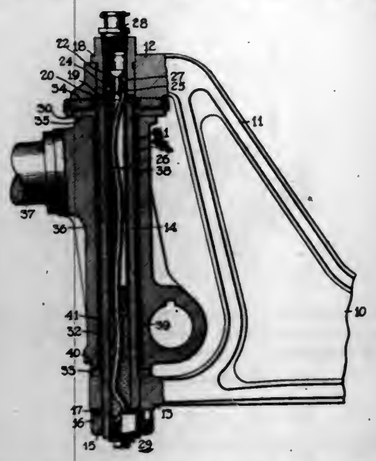
1,456,617. BOTTLE-CAPPING AND WIRE-REMOVING MACHINE. ROLLAND J. CANTON, Lynn, Mass. Filed Sept. 15, 1921. Serial No. 500,745. 3 Claims. (Cl. 226—92.)



1. In a machine of the class described, the combination of bottle holding means, a cross-head movable toward and from said bottle and provided with a recess, a cutter slidably mounted in said recess, and means for forcing said cutter outwardly with respect to said recess to maintain said cutter in engagement with the bottle during its movement to cut and remove used cup holding rings from the neck of the bottle.

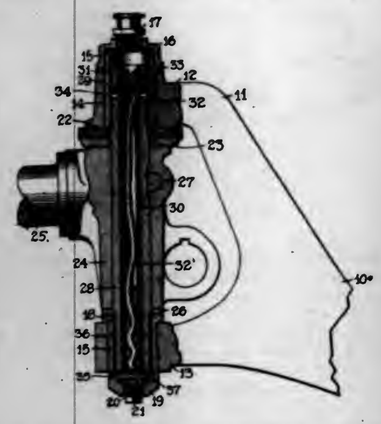
1,456,618. LUBRICATION OF AUTOMOTIVE VEHICLE KNUCKLES. GUSTAV W. CARLSON, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 4, 1922. Serial No. 549,592. 15 Claims. (Cl. 64—27.)

3. In a knuckle construction, the combination of a hollow knuckle pin, a bearing at the upper portion thereof, said pin having a transverse opening for supplying lubricant to the bearing, a device in the upper portion of said hollow pin adjacent said opening and having a peripheral portion engaging an inner portion of the pin



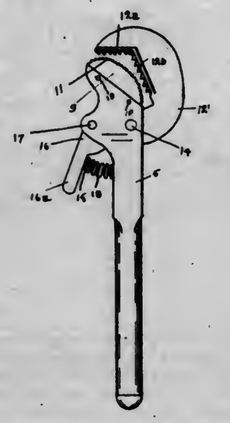
so as to intercept lubricant from its course down the pin and guide same into said opening, and a wick in the hollow pin for feeding lubricant up to the peripheral portion of said device.

1,456,619. LUBRICATION OF AUTOMOTIVE VEHICLE KNUCKLES. GUSTAV W. CARLSON, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 4, 1922. Serial No. 549,593. 7 Claims. (Cl. 64—27.)



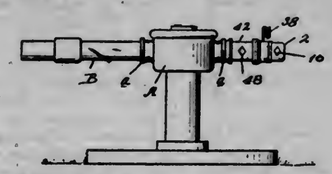
5. In a device of the character described, a hollow pivot pin, an active bearing surface, a container for lubricant closed at one end and open at its opposite end and enclosed within the hollow of the pivot pin, the open end of the container being flared outwardly so as to engage the inner wall of the hollow pivot pin and being of a diameter less than the inside diameter of the hollow pivot pin, whereby an oil passage is provided between said container and the inner wall of the pivot pin through which the oil is free to flow in its movement toward the active bearing surface, a wick extended at one end within the container and at its opposite end extended towards the open end thereof, said wick being adapted to conduct the lubricant within the container to said passage, and a support for the wick spaced slightly above the upper open end of the lubricant container.

1,456,620. WRENCH. GEORGE W. CARY, Greenfield, Mass. Filed Oct. 22, 1919. Serial No. 332,543. 1 Claim. (Cl. 81—111.)



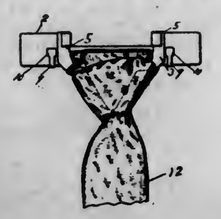
A wrench comprising a handle having a jaw-holding head on one end, said head being laterally enlarged and longitudinally slotted, a rigid jaw supported by the sides formed by the slot in said head and having a series of teeth disposed in the convex curve, certain of said teeth being located along the innermost side of the jaw in substantial axial alignment with the handle, a movable jaw having an arm pivotally supported in the slot and provided with two rows of gripping teeth, one row being disposed at an oblique angle of the other row and the two rows having a common meeting point so that the teeth of said movable jaw will converge away from the teeth of the rigid jaw toward said meeting point, said arm having segmental gear teeth therein, a lever provided in the slot of said jaw-holding head and having segmental teeth to engage with the segmental teeth of said arm and provided with a handle extending toward the first named handle, and a spring bearing at one end against the handle and at the other end against said lever to maintain the movable jaw toward the rigid jaw.

1,456,621. PORTABLE GAS METER. JOHN W. CHADWICK, Kansas City, Mo. Filed Dec. 29, 1920. Serial No. 433,905. 2 Claims. (Cl. 73—167.)



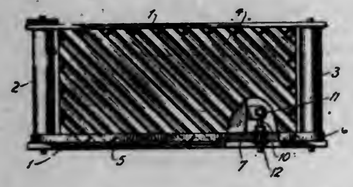
1. A portable device of the character described consisting of a tubular member closed at one end and having an outlet port in one side and open at the other end which latter is adapted to be pressed against a fluid-containing pipe, and a second tubular member open at one end and adjustably mounted upon the first member and provided with an outlet port to coact with the first outlet port in providing a variable discharge orifice which may be entirely closed or opened to any desired degree, there being a scale on the second member to coact with an index on the first member to show the degree of such opening.

1,456,622. NECKTIE-KNOT-FORMING DEVICE. PETER CRAUSE, Hartford, Conn. Filed Dec. 28, 1922. Serial No. 609,426. 3 Claims. (Cl. 24—56.)



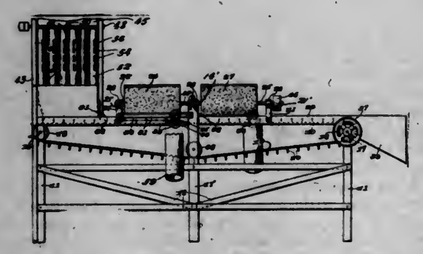
1. A device of the class described, comprising a sheet metal body portion which is of longitudinal arcuate form and is adapted to fit within a collar intended for human wear, the body having means for its connection detachably with the collar button and having a downwardly bent portion which is also longitudinally arched, the body portion and the downwardly bent portion having jointly a slot to receive a necktie.

1,456,623. CARRIER-TABLE ATTACHMENT. JOHN PETER DAMM, Techny, Ill. Filed Aug. 8, 1921. Serial No. 490,528. 2 Claims. (Cl. 271—52.)



1. In paper feeding mechanism, the combination with a carrier table, of rollers arranged in the ends of the table, a belt connecting said rollers, and manually operable means for regulating the tension of said belt and of shifting the same laterally.

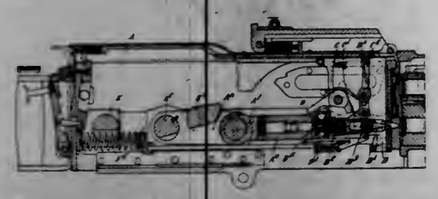
1,456,624. CORN FEEDING AND DEBUTTING MACHINE. GEORGE W. DAVIS, Gibson City, Ill. Filed May 27, 1922. Serial No. 564,174. 5 Claims. (Cl. 146—11.)



1. A machine for trimming ears of corn comprising a carrier, cutting mechanisms mounted at opposite sides of the carrier and in staggered relation to each other, a rotatable member for moving the ears into position to

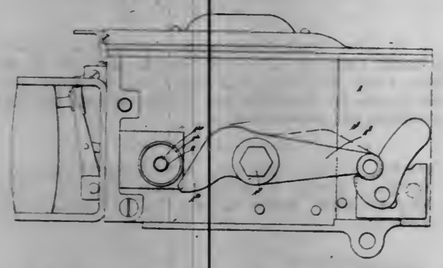
have one end cut off by one of the cutting mechanisms, means for deflecting the ears toward said rotatable member, a second rotatable member for moving the ears to present their other ends to the other cutting mechanism, and means for deflecting the ears toward the second rotatable member.

1,456,625. MACHINE GUN. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Jan. 7, 1921. Serial No. 435,651. 5 Claims. (Cl. 89—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine gun of the barrel recoiling type, the combination with a part recoiling with the barrel, a crank pivoted on said part, the lock, and a connecting rod connecting said crank to said lock of a centrally arranged and rigid stop-piece which said crank strikes at the end of its movement during recoil of the barrel, and a device common to the side lever axis pin and the firing spring for retaining these two parts in their assembled position.

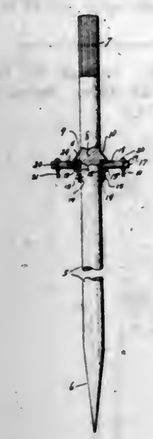
1,456,626. MACHINE GUN. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Original application filed Jan. 7, 1921, Serial No. 435,651. Divided and this application filed Jan. 18, 1921. Serial No. 438,167. 4 Claims. (Cl. 89—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine gun of the barrel recoiling type, the combination with a part recoiling with the barrel, a crank pivoted on said part, the lock, and a connecting rod connecting said crank to said lock, of a centrally arranged and rigid stop-piece, and a centrally arranged mass of metal on said crank, which mass strikes the stop-piece at the end of the movement of said crank during recoil of the barrel.

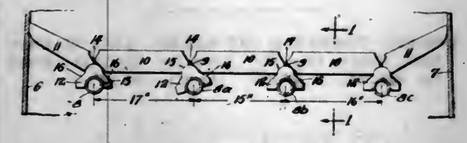
2. In a machine gun of the barrel recoiling type, the combination with a part recoiling with the barrel, a crank pivoted on said part, the lock, and a connecting rod connecting said crank to said lock, of a centrally arranged and rigid stop-piece, and a centrally arranged mass of metal on said crank, and projecting beyond the upper surface thereof, which mass strikes the stop-piece at the end of the movement of said crank during recoil of the barrel.

1,456,627. HITCHING AND TETHERING DEVICE. EDWARD JOHN DELBRIDGE, Hatch, Idaho. Filed Nov. 15, 1922. Serial No. 601,111. 1 Claim. (Cl. 119—117.)



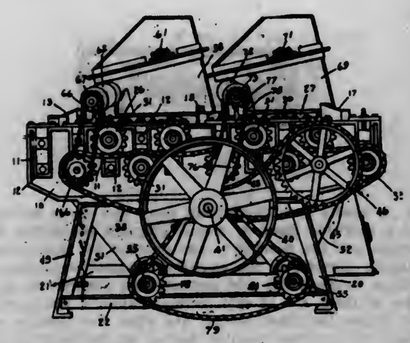
A hitching and tethering device comprising a standard having a flange formed integrally therewith adjacent one end of the standard and projecting outwardly, said flange surrounding the standard and having its lower face disposed at right angles to the standard to provide a bearing surface, a holding plate having a central opening adapted to receive the standard and engage the bearing face of the flange, the plate being rotatable on the standard, the edge portion of the plate projecting beyond the flange, hitching means carried by said edge portion at spaced intervals, a collar movably mounted on the standard, the upper face of said collar being disposed at right angles to the standard to provide a bearing face adapted to engage the plate, and a plurality of threaded openings provided in the collar adjacent its lower edge for the reception of set screws whereby the bearing collar may be urged into binding engagement with the plate and the plate urged into binding engagement with the flange and the set screws tightened to hold the plate rigid.

1,456,628. FIRE-BOX-ARCH CONSTRUCTION. GUY CARLETON DENNEY, Hinsdale, Ill., assignor to American Arch Company, a Corporation of Delaware. Filed Nov. 26, 1920. Serial No. 426,348. 8 Claims. (Cl. 110—87.)



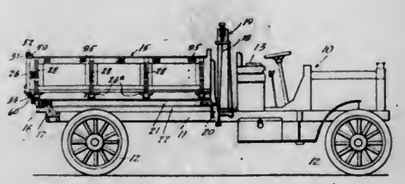
1. In a locomotive fire box having spaced arch supporting members, an arch comprising brick supporting members on the arch supporting members and bricks spanning the distance between said arch supporting members and resting on said brick supporting members, each of said brick supporting members being provided with an arch supporting member engaging surface and a brick supporting surface, the arch supporting member engaging surface permitting movement of the brick supporting member to change the position of the brick supporting surface whereby spaces of different dimension between arch supporting members can be spanned by bricks of one size.

1,456,629. TIN-PLATE BRANNING AND CLEANING MACHINE. WILLIAM N. DURBIN, Anderson, Ind. Filed Oct. 18, 1919. Serial No. 331,637. 12 Claims. (Cl. 51—23.)



1. A tin plate cleaning machine including a branning compartment and a cleaning compartment to which the tin plates are fed directly from the branning compartment, means for preventing the bran from passing from the branning compartment to the cleaning compartment, and separate means for supplying cleaning material repeatedly to the branning and cleaning compartments, substantially as set forth, whereby the cleaning material in said two compartments will be kept separate.

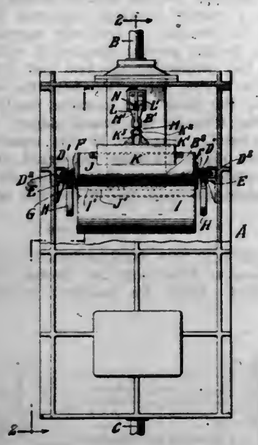
1,456,630. VEHICLE BODY. ARTHUR L. EATON and HARRY F. VICKERS, Los Angeles, Calif.; said Vickers assignor to said Eaton. Filed May 23, 1921. Serial No. 471,580. 2 Claims. (Cl. 296—14.)



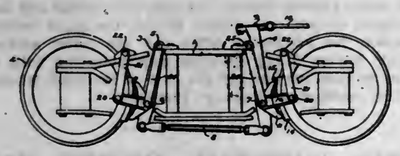
1. In a vehicle body, a bottom, a side, a member arranged in connection with the bottom to project from its edge, the member having a guide slot in it, a block slidably carried by the slot, and a bracket attached to the side and having pivotal connection with the block so that the side can be positioned to project from the edge of the bottom in the plane of the bottom or to project upwardly from the bottom, the bracket having parts adapted to be connected with said member to hold the side in either of said positions.

1,456,631. WEIGHING MACHINE. HAROLD D. ELFRETH, Philadelphia, Pa., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1919. Serial No. 347,096. 7 Claims. (Cl. 249—54.)

1. A tilting bucket for weighing machines having an intercepting receptacle secured to it, and so arranged that when the bucket is in normal receiving position the material to be weighed will flow freely from the receptacle into the bucket, and when the bucket tilts to deliver its contents said receptacle will be turned to a position in which it will retain a considerable quantity of said material.

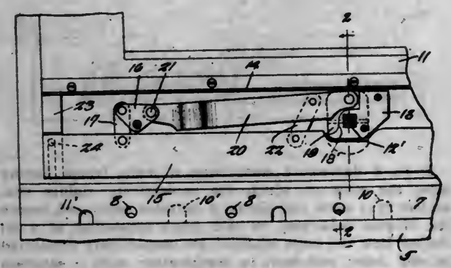


1,456,632. RAILWAY BRAKE HEAD. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 2, 1922. Serial No. 540,577. 8 Claims. (Cl. 188—236.)



5. The combination with a truck comprising wheels and a frame, of brake levers, hangers suspended from said frame, and a brake head having an arm extending laterally and in advance, and connections between the brake head and arm and said hangers.

1,456,633. WEATHER STRIP. CLARENCE M. EVELETH, River Forest, Ill. Filed Sept. 12, 1921. Serial No. 500,081. 1 Claim. (Cl. 20—58.)



In a device of the character described, a hinged closure, a sill associated with the hinged closure, a pair of spaced

ribs extending upwardly from the sill, a housing secured to the lower end of said closure, a supporting plate secured to the inner surface of the housing, a movable plate having a square opening supported intermediate the ends of the housing, a vertically movable weather strip, an arm having pivotal connection with the movable plate, a link connecting the arm and weather strip, a pivoted plate having connection with the arm, a link for connecting the plate and movable weather strip, a shaft extending through the hinged closure and having a squared extremity disposed in the squared opening of the movable plate, whereby movement of the shaft and movable plate will cause the weather strip to move into close engagement with one of the ribs of the sill.

1,456,634. DEVICE FOR BABBITTING CONNECTING RODS. CHARLES ERICKSON, Jr., Scotia, Calif. Filed Mar. 18, 1922. Serial No. 544,853. 2 Claims. (Cl. 22—123.)



1. In a mandrel for babbitting connecting rods, a base provided with an upstanding pin passing through and spaced from the head of the connecting rod, collars fitted upon the pin and in contact with the opposite ends of the head of the connecting rod and provided with annular grooves upon their adjacent faces registering with the space between the pin and the bore of the head, and an additional collar secured upon the extremity of the pin, and means passing through the additional collar and bearing upon an adjacent collar, to jam the parts securely together, the additional collar and the collar adjacent thereto having filling openings communicating with the space between the pin and the bore of the head, whereby Babbitt metal may be poured thereinto.

1,456,635. DAVENPORT-BED STRUCTURE. HYMAN FREEDMAN and NATHAN H. FREEDMAN, Chicago, Ill., assignors to Davoplane Bed Company, a Corporation of Illinois. Original application filed May 15, 1916, Serial No. 97,688. Divided and this application filed Mar. 6, 1919. Serial No. 280,964. 3 Claims. (Cl. 5—51.)



1. In a davenport comprising a main frame having sides the ends of which are respectively rigidly connected by a back and front, a movable seat, and means for hinging said seat to said front consisting of a U-shaped link the ends whereof are respectively connected to said front and seat, in combination with a separate link having a pivotal connection with one of said members and a sliding connection with the other of said members.

1,456,636. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J., assignor to Henri Rigaud, New York, N. Y. Filed Aug. 30, 1922. Serial No. 585,185. 2 Claims. (Cl. 132—38.)



1. A vanity case comprising body and cover sections and a partition member, means hingedly connecting the sections and the member to one another for independent swinging movement, the partition member occupying a position between the said sections and adapted to close either of them, one of said sections having a rim portion over which the other section fits when the sections are closed, the partition member having an outstanding portion to seat upon the edge of said rim portion when the partition member is in position closing the said section, and articles for toilet use supported upon the partition and within the said body and cover sections, the said rim portion of the first-mentioned section being provided with a notch whereby the said outstanding portion of the partition member may be readily engaged for the purpose of swinging the member about the hinge.

1,456,637. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 4, 1919. Serial No. 321,664. 1 Claim. (Cl. 197—102.)

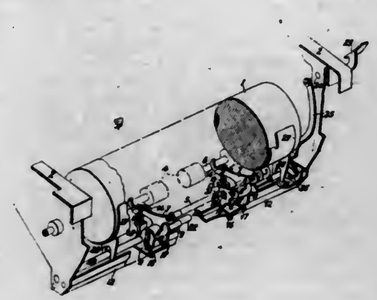


The combination with a typewriter key lever of a cup fixed against rotation on said lever, the sides of the cup being made from thin sheet metal, said metal sides having a screw-thread rolled therein, a key-paper and glass inserted in said cup, and an annular cap also of thin sheet metal and having threads rolled in the sides thereof and adapted to be screwed down upon said cup, said cap having an inturned top flange to bear down upon the glass to retain the glass and paper in the cup.

1,456,638. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 30, 1920. Serial No. 413,671. 21 Claims. (Cl. 197—138.)

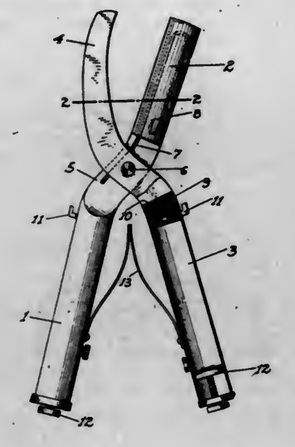
1. In a typewriting machine, in combination, a platen, front and rear feed-rolls, hangers common to both front and rear feed-rolls, a shaft on which said hangers are carried, guides for said shaft, springs acting on said hangers at one side of said shaft, and means for withdrawing said hanger and, consequently, said rolls from

the platen, acting to apply force to said hangers along lines at the same side of said shaft as the points of appli-



cation of said springs, so as to counteract the twisting tendency about said shaft of the hangers due to said springs and means.

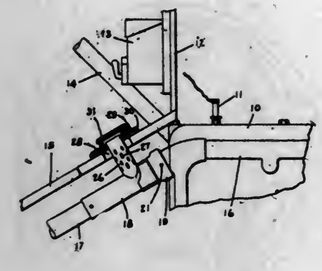
1,456,639. FLESH-CUTTING SHEARS. CELESTIN I. LAGIER, Stockton, Calif. Filed Oct. 22, 1921. Serial No. 509,629. 6 Claims. (Cl. 128—305.)



1. A shears comprising a pair of co-operating and connected cutting members, one of said members being hollow, and heat creating means mounted in the hollow area.

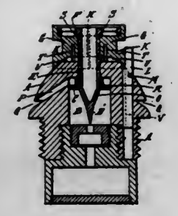
1,456,640. AUTOMOBILE EXHAUST LOCK. GEORGE A. LOWAY, Indianapolis, Ind., and THOMAS K. LOWAY, Chicago, Ill. Filed June 21, 1920. Serial No. 390,677. 4 Claims. (Cl. 207—6.)

1. A locking device for a conduit, having a valve mounted therein, means for opening and closing said valve and locking it in position, means for connecting said locking device with the conduit, and an annular



sleeve loosely mounted thereon between said connecting means and valve for protecting said locking means against being engaged by a cutting tool.

1,456,641. SHELL FUSE. OWEN DAVID LUCAS, Westminster, London, England, assignor to M. L. Experimental Limited, Westminster, London, England. Filed Aug. 24, 1920. Serial No. 405,659. 15 Claims. (Cl. 102—39.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



14. In a shell fuse, the combination with the striker of a head carried by said striker and arranged in front of the fuse, a cylinder in the fuse, a piston which is carried by said striker and works in said cylinder, the area of said piston being approximately equal to the effective area of said head, means for conveying air to the cylinder in rear of said piston, a split collar for holding the striker in the safe position, a tape wrapped round said collar and a set-back pin for holding said tape in position.

1,456,642. VEHICLE WHEEL. AUGUST G. MASS, Cincinnati, Ohio. Filed Dec. 12, 1921. Serial No. 521,657. 5 Claims. (Cl. 152—32.)

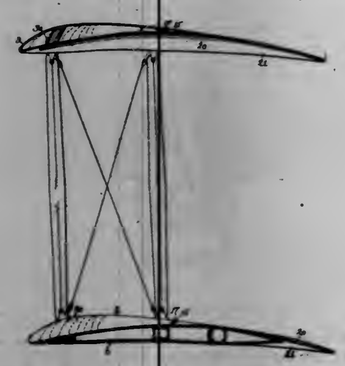
5. In a vehicle wheel, the combination of an inner wheel-member having an outer peripheral face, an outer wheel-member comprising an annular rim provided with annular radially inwardly extending flanges to form an inwardly opening annular groove, said outer peripheral face and said rim having an annular space between them, said rim provided with outer cross-grooves at its outer periphery to form inwardly extending cross-ridges at its inner periphery and apertures at the ends of said grooves, a series of full elliptical springs annularly arranged in said annular space, U-clips, the bases of said U-clips

located in said cross-grooves and the limbs of said U-clips received through said apertures between the sides of the outer halves of said springs and said flanges to



connect said springs and said outer wheel-member, and U-clips connecting said springs and said inner wheel-member.

1,456,643. AIRPLANE. FRANK R. MAXWELL, Jr., Dedham, Mass. Filed Apr. 13, 1921. Serial No. 460,925. 7 Claims. (Cl. 244—12.)



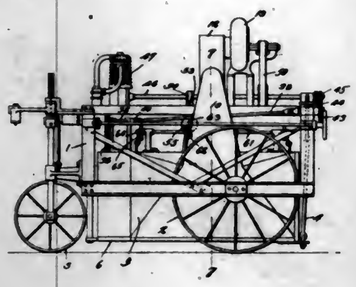
2. An aerofoil comprising a supporting element provided with a slot extending therethrough transversely of the line of flight, such slot being arranged adjacent to the advancing edge of said element and being normally covered, and means for simultaneously uncovering said slot and increasing the angle of incidence of the aerofoil.

1,456,644. DIAL FOR ELECTRICAL INSTRUMENTS. VERNON H. MEYER, Cleveland, Ohio. Filed July 31, 1922. Serial No. 578,302. 2 Claims. (Cl. 74—33.)



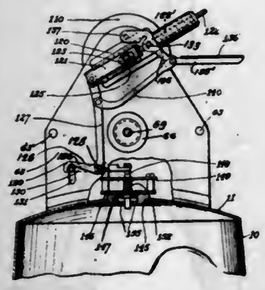
1. A dial of the kind described, comprising a base provided with a knob, and a circular knurled flange projecting from the base and extending around the same near the outer edge thereof.

1,456,645. COTTON PICKER. JOSEPH B. NEIL, York, S. C., assignor of one-third to Charles L. Cobb, Rock Hill, S. C., and one-third to J. C. Wilborn, York, S. C. Filed Apr. 19, 1920. Serial No. 374,951. 11 Claims. (Cl. 56—14.)



4. In a cotton picking machine the combination with a frame, means for reciprocating the frame, and superposed picking units carried by said frame, each unit including a picking roll and a spiral roll, of suction throats extending from each of the picking units and forming branch receiving pockets therebetween and extending longitudinally of the frame, a stationary suction hood in communication with the suction throats, means for setting up a suction through the hood from the throats and picking units during the reciprocation of the frame and units, and means for actuating the picking units during their reciprocation.

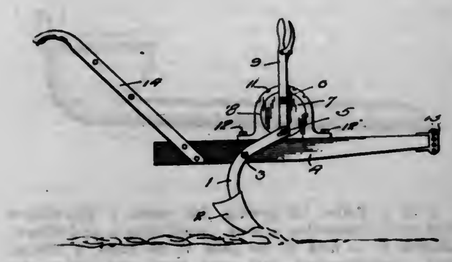
1,456,646. SEA MINE. EUGENE OSEGOVIC, Brooklyn, N. Y. Filed June 30, 1921. Serial No. 481,491. 5 Claims. (Cl. 102—3.)



4. A sea mine comprising a casing, a firing pin slidably mounted co-axial with said casing, an explosive mixture in the casing adapted to be detonated by said firing pin, a hub rigid with said casing and surrounding said firing pin, a flange rotatably mounted upon said hub, a foot integral with said flange, a cocking pin integral with said firing pin, said cocking pin engaging said foot preparatory to firing, means urging said cocking pin against said foot, a plurality of antennæ pivotally attached to, and extending tangentially from, said flange, said antennæ being adapted, upon impact with a solid object, to rotate said flange and foot to release said cocking pin and firing pin, a drum mounted on said casing and having a cable wound thereon, a gear rigidly mounted co-axially with said drum, a rotatably mounted member adjacent said gear and having two spaced-apart teeth extending therefrom, one of said teeth being adapted to engage said gear before launching of the

mine to prevent rotation of the drum, the other being adapted to engage said gear after the mine has sunk to a predetermined depth, both being adapted to lie clear of said gear during sinking or drifting of the mine, a diaphragm on the outside of the casing, resilient means urging said diaphragm outward, a spring urging said member to rotate to withdraw said first-named tooth from engagement with said gear and to bring said second-named tooth into engagement with said gear, releasable locking means to prevent rotation of said member, means on said diaphragm contacting with said last-named means, said last-named means being adapted to be partially released by withdrawal of said means on said diaphragm when said diaphragm is forced partway back by pressure of the water, a projection on said means on the diaphragm adapted to engage said releasable locking means after said partial release to prevent complete release, said first-named tooth thereby being withdrawn from engagement with said gear to allow free rotation of the drum, said projection being adapted to be withdrawn from said releasable locking means upon further backward movement of the diaphragm owing to greater pressure, said second-named tooth thereby being brought into engagement with said gear to prevent further rotation of said drum, a valve in the casing communicating with the explosive chamber, a flat member pivotally mounted on the casing and adapted to be partially rotated by the weight of the water during towing in of the mine, means connecting said flat member with said valve operable by partial rotation of said flat member to open said valve.

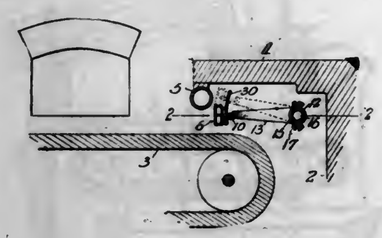
1,456,647. PLOWFOOT ADJUSTER. LUCIUS A. PANNELL, Atlanta, Ga. Filed Dec. 13, 1921. Serial No. 522,142. 2 Claims. (Cl. 97—197.)



2. In a plow foot adjuster, the combination with a plow beam, of a plow arm fulcrumed thereon, a notched segment affixed to the plow beam, a hand lever operatively engageable with the notched segment, a rotatable disk positioned within the notched segment, means operatively connecting the upper end of the plow arm with the lower end of the hand lever, and means loosely connecting the lower portion of said hand lever to the upper end of the plow arm.

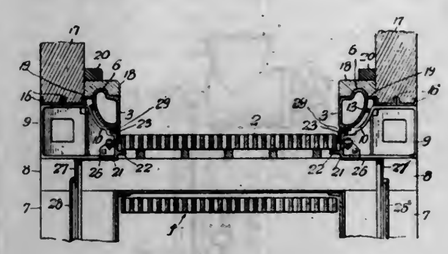
1,456,648. FUEL-RETARDING MEMBER. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Dec. 22, 1919. Serial No. 346,472. 5 Claims. (Cl. 122—4.)

1. In a furnace, the combination of a combustion chamber, a traveling grate therein, a liquid cooled fuel retarding member above said grate adjacent the rear end thereof and extending across the same, said member being formed of a plurality of separate hollow sections arranged end to end, means providing communication between said sections so that a cooling liquid may be circulated through said member from one section to the other, each section having a rear web, a bar extending lengthwise of said member to the rear thereof and secured to said webs, a rock shaft spaced rearward of said sections, arms extending between said bar and said shaft



and connected therewith for supporting and adjusting said sections toward and from said grate, and means for turning said shaft and holding said member in any of its adjusted positions.

1,456,649. LEDGE PLATE AND WATER-BOX MOUNTING FOR FURNACES. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed July 25, 1921. Serial No. 487,242. 3 Claims. (Cl. 122—292.)

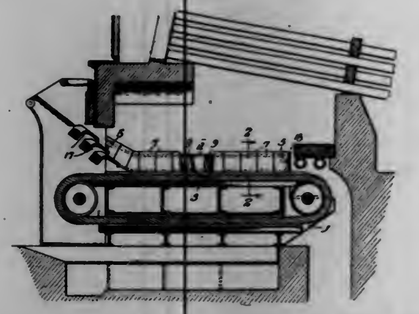


1. In a furnace, the combination with a combustion chamber and a grate therein, of a water box extending along one side of the grate and lying in direct contact with the fuel bed thereon, said box being located inside of the adjacent side wall of the combustion chamber and having inlet and outlet openings, a plurality of laterally spaced chairs supported by said side wall and extending under the water box for supporting the same, said box and said chairs having a key and slot connection permitting the box to expand and contract endwise with respect to said chairs and said side wall, said box having clean-out openings in the spaces between said chairs so that access may be had thereto through said wall from the exterior thereof.

1,456,650. WATER BOX FOR FURNACES. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Aug. 17, 1921. Serial No. 492,948. 8 Claims. (Cl. 122—292.)

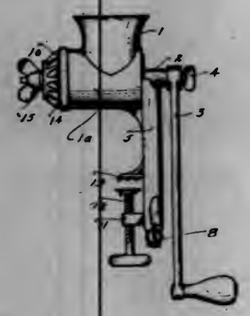
1. In a furnace, the combination with a combustion chamber and a grate therein, of an elongated box extending along one of the walls of said combustion chamber and supported thereby, and a plurality of tiles supported by said box and extending over and covering the inner side face thereof, said tiles being in direct contact with the fuel bed on the grate and insulating the box therefrom

and the heat produced in the combustion chamber, said box having inlet and outlet openings so that a cooling



fluid may be circulated through the box for maintaining the same and tiles relatively cool for preventing adherence of the fuel bed to said tiles.

1,456,651. FOOD-GRINDING MACHINE. D. MYRTILLE RIEMAN, Portland, Oreg. Filed Aug. 3, 1922. Serial No. 579,531. 4 Claims. (Cl. 17—20.)

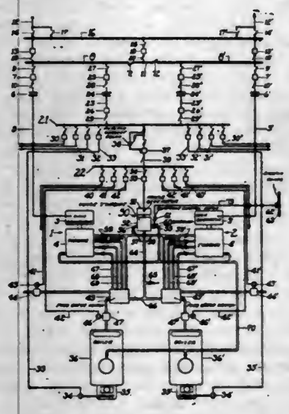


4. The combination with a food grinder embodying a bowl and a grinding screw, of a liquid receptacle connected to one end of the bowl and depending therefrom, and means for controlling the discharge of liquid from the receptacle.

1,456,652. ELECTRIC POWER-GENERATING SYSTEM. ALLEN M. ROSSMAN, Chicago, Ill., assignor to Sargent & Lundy, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1921. Serial No. 476,701. 30 Claims. (Cl. 290—2.)

17. In combination, a main prime mover, a main generator driven thereby, an auxiliary prime mover, an auxiliary generator driven thereby, means for supplying current continuously from the main generator to the auxiliary generator to drive the auxiliary generator and its connected prime mover idle so long as the main generator is being driven and means for cooling the driven prime mover.

29. In a steam driven power plant employing a house turbo generator driven by current from the main turbo generator, the method of conserving the heat of the friction losses on the vanes and blading of the turbine of the house generator which comprises passing steam



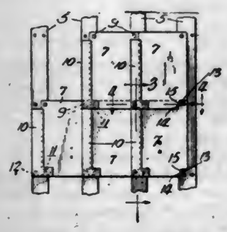
through said turbine to absorb the heat of fluid friction with the moving parts and transferring the heat of the steam so used to feed water for the main turbine.

1,456,653. SEED SOWER. MAX SCHLING, New York, N. Y. Filed July 21, 1922. Serial No. 576,430. 3 Claims. (Cl. 275—1.)



1. In a device for sowing fine seeds, a pipe-shaped seed-sower comprising a bowl, constituting a seed-hopper, adapted to be held in the palm of the hand, a tubular stem communicating with said bowl, and means for controlling the flow of seeds from said bowl to said stem.

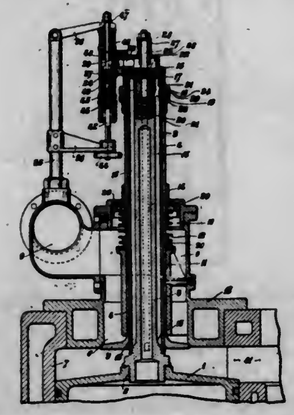
1,456,654. ASH HOPPER. ARTHUR P. STRONG, Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Oct. 6, 1921. Serial No. 505,702. 6 Claims. (Cl. 189—3.)



1. A wall, comprising plate supporting beams, plates arranged inside of said beams and closing the spaces

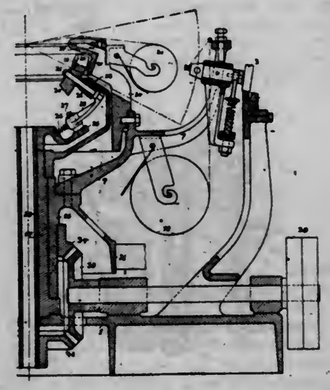
between the same, and bolts securing the plates to said beams, said plates having means extending over the inner ends of said bolts for protecting the same from contact with the material packed against the inside of said wall.

1,456,655. INTERNAL-COMBUSTION ENGINE. WALTER FREDERICK THOMAS, St. Helens, Isle of Wight, England. Filed Oct. 17, 1922. Serial No. 595,120. 5 Claims. (Cl. 123—33.)



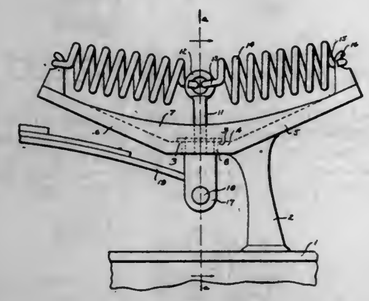
1. In a four stroke cycle internal combustion engine, a working cylinder having valve controlled air inlet and exhaust ports, a working piston mounted to reciprocate in said cylinder, an auxiliary pump cylinder, an auxiliary pump piston mounted to reciprocate in said pump cylinder, means for reciprocating said pump piston coincidently with said working piston comprising a means for introducing alternately a charge of fuel and air and a charge of pure air into said pump cylinder, and means for transferring said charges of fuel and air and pure air when compressed to said working cylinder.

1,456,656. BRAIDING MACHINE. CARL TOBER, Berlin-Karlshorst, Germany. Filed Jan. 31, 1921. Serial No. 441,422. 2 Claims. (Cl. 96—7.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



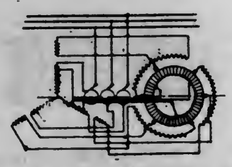
1. In a braiding machine a plurality of outer bobbins, a rotatable carrier therefor, a plurality of slides adapted to revolve relative to said carrier in opposite direction thereto, inner bobbins carried by said slides, a set of rollers for operating the said slides, a track on the said carrier for the said slides, and means for rotating the said set of rollers.

1,456,657. SHOCK ABSORBER. HARRY A. TOULMIN, Jr., Dayton, Ohio, assignor to The Temco Electric Motor Company, Leipsic, Ohio, a Corporation of Ohio. Filed Apr. 7, 1921. Serial No. 459,446. 7 Claims. (Cl. 267—28.)



1. In combination, a stanchion having opposed ends, a resilient element connected to either end of said stanchion, a supporting link connected at one end to said resilient element and at the other end to a second resilient element, the parts being so arranged that the shock imparted to the vehicle will pass through the stanchion, the resilient element, the supporting link to the second resilient element in the order named.

1,456,658. ALTERNATING-CURRENT COMMUTATOR MOTOR. OTTO TÜRK and JAROSLAV KOZISEK, Charlottenburg, near Berlin, Germany, assignors to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany, a Corporation of Germany. Filed Oct. 29, 1915. Serial No. 58,679. 3 Claims. (Cl. 172—274.)

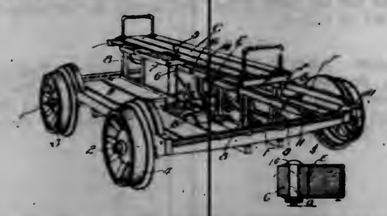


1. In combination an asynchronous machine having a wound rotor and a wound stator, a commutator machine mechanically coupled to said asynchronous machine and having a wound rotor and brushes resting on its commutator and having a wound stator, slip rings rotating with said asynchronous machine and an alternating current supply line connected to said slip rings, connections from the slip rings to the asynchronous machine rotor and connections from the latter to the commutator machine rotor, and circuits including the stator windings of both machines and said brushes.

1,456,659. MOTOR CAR. JEAN K. VANATTA, Chicago, Ill., assignor to Mudge & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1923. Serial No. 620,573. 7 Claims. (Cl. 105—162.)

1. In a track inspection motor car of the class described, a raised seat frame comprising parallel side rails and a plurality of cross bars, vertical supporting stand-

ards between the car platform and the seat frame, a handle member at the side of each side rail capable of



longitudinal movement relative thereto, and means for controlling the extent of movement of said member.

1,456,660. COMPUTING MACHINE. HARRY H. VICKERS, Corona, Long Island, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 10, 1921. Serial No. 451,120. 12 Claims. (Cl. 235—60.)



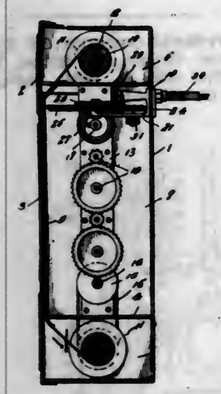
2. In combination, a traveling carriage, computing mechanism normally set for addition and including means for indexing numbers and a general operator for effecting computation of the numbers so indexed, subtraction-setting mechanism returnable to ineffective position by said general operator, and means for automatically causing actuation of said general operator upon backing of the carriage a predetermined distance into a computing zone.

1,456,661. COLLAPSIBLE IRONING BOARD. ANDREW L. WAGSTAFF, Kansas City, Mo. Filed May 9, 1921. Serial No. 468,003. 1 Claim. (Cl. 68—10.)



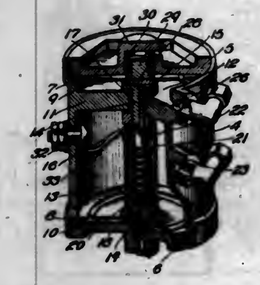
In apparatus of the class described, a casing divided into a central compartment and end compartments, a cover for said casing provided with a window over said central compartment, reels in said end compartments, respectively, a map wound about one of said reels and adapted to be unwound therefrom onto the other reel and movable across said window, a shaft in said central compartment, driving connections between said shaft and the winding reel, a train of reducing gears in said central compartment connected to said shaft whereby said shaft may be rotated to move said map a certain distance in proportion to the travel of the vehicle, a second shaft connected to said reduction gearing to operate the latter, a pinion on said last named shaft, a gear meshing with said pinion between said gear and a moving part of the vehicle, said driving connections including a flexible shaft, connections between said flexible shaft and gear and a bracket supporting said gear and last named connections and said flexible shaft and transversely movable within a slot in said casing and means for moving said bracket within said slot to engage said gear with said pinion and disengage the gear from the pinion.

1,456,662. TOURIST MAP AND OPERATING MECHANISM THEREFOR. HARRY E. WILDER, El Paso, Tex. Filed Aug. 1, 1922. Serial No. 578,892. 1 Claim. (Cl. 40—42.)



In apparatus of the class described, a casing divided into a central compartment and end compartments, a cover for said casing provided with a window over said central compartment, reels in said end compartments, respectively, a map wound about one of said reels and adapted to be unwound therefrom onto the other reel and movable across said window, a shaft in said central compartment, driving connections between said shaft and the winding reel, a train of reducing gears in said central compartment connected to said shaft whereby said shaft may be rotated to move said map a certain distance in proportion to the travel of the vehicle, a second shaft connected to said reduction gearing to operate the latter, a pinion on said last named shaft, a gear meshing with said pinion between said gear and a moving part of the vehicle, said driving connections including a flexible shaft, connections between said flexible shaft and gear and a bracket supporting said gear and last named connections and said flexible shaft and transversely movable within a slot in said casing and means for moving said bracket within said slot to engage said gear with said pinion and disengage the gear from the pinion.

1,456,663. MOTOR PROTECTOR. GROVER C. WILLIS, Kansas City, Mo., assignor to Willis-Warner Manufacturing Company, Kansas City, Mo., a Partnership composed of Grover C. Willis and Joseph O. Warner. Filed Mar. 17, 1921. Serial No. 453,043. 7 Claims. (Cl. 200—83.)



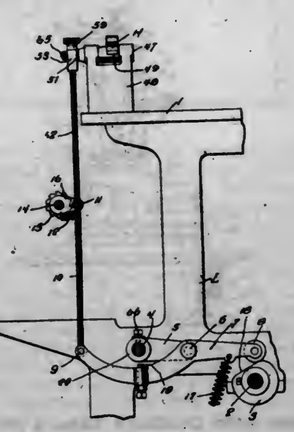
1. In a device of the class described, a closed casing having a vacuum chamber and an oil chamber, a contact-carrying diaphragm in the oil chamber, a contact post having one end in the oil chamber and the other in the vacuum chamber, a contact-carrying diaphragm in the vacuum chamber to be moved into functional position to contact its contact with the post when a vacuum is created in the vacuum chamber, a binding post in the wall of the casing, and a connection between the contact in the vacuum chamber and the post.

1,456,664. METAL WEATHER STRIP. LUTHER C. YEICH and ROBERT H. G. PARKER, Reading, Pa. Filed Feb. 16, 1922. Serial No. 536,923. 2 Claims. (Cl. 189—65.)



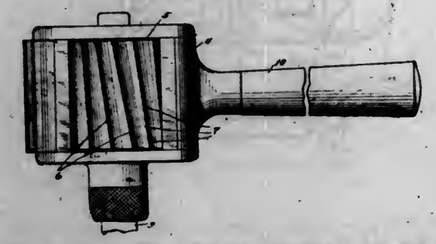
1. In a metal weather strip for windows, a metal retaining member having a flat body portion and one longitudinal edge bent at right angles thereto and forming an open groove, in combination with a weather strip of light, resilient metal having one longitudinal edge bent at right angles to its body and adapted for frictional engagement in said groove while the other edge is curved to bring it free from contact with the window frame.

1,456,665. ELEVATOR-CONTROL MECHANISM FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,395. 11 Claims. (Cl. 271—62.)



1. In elevator control mechanism for envelope-making machines, an elevator adapted for supporting a pile of envelope blanks, means for moving the elevator upwardly so as to maintain the level of the blanks, including a rotating shaft, connections between the elevator and the shaft for imparting a step by step movement to the elevator, a lever having a portion adapted to engage the upper surface of the pile of envelope blanks, a link extending between said lever and said connections for rendering the connections inoperative in accordance with the level of the pile, means adjustably connecting said lever and said link whereby to determine the point at which said lever becomes effective upon said connections, said last means comprising a member fixed to said link and having a slot therein, a member pivotally engaging said lever extending into said slot, and a screw engaging between said two members for adjusting the second member longitudinally of the slot by rotation of the screw.

1,456,666. FISH SCALER. JAMES J. BARRY, Brooklyn, N. Y. Filed Nov. 21, 1922. Serial No. 602,487. 4 Claims. (Cl. 17—5.)

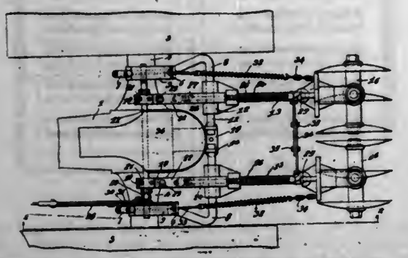


1. A device of the character described comprising a housing, a tooth-wheel in said housing adapted to engage and remove scales from a fish, said housing having a separate opening for ejecting the scales.

1,456,667. MANUFACTURE OF ARTIFICIAL STONE, CEMENT, OR THE LIKE. HOWARD BERRY, Welwyn, England. Filed Feb. 14, 1923. Serial No. 619,011. 1 Claim. (Cl. 106—24.)

A cementitious material composed of 85% powdered slate, 10% calcined magnesite, 5% sodium bicarbonate, mixed with a trace of a soluble barium compound, substantially as hereinbefore set forth.

1,456,668. TRACTOR ATTACHMENT. JOSIAH QUINCY BILLINGS, Hammond, La. Filed Sept 24, 1921. Serial No. 502,945. 5 Claims. (Cl. 97—71.)

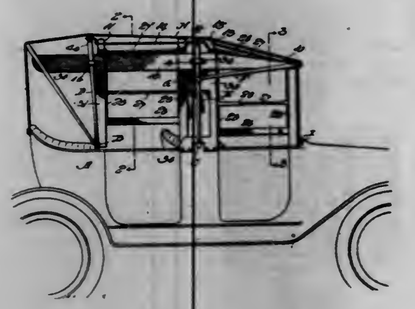


4. A device of the class described including bearing blocks, draw bars connected thereto, connecting bars laterally movable on the draw bars, a crank shaft, connecting rods including laterally swingable arms, implement connecting means at the free end of said arms, and an actuating lever having connection with the crank shaft to impart movement to the connecting rods.

1,456,669. CURTAIN-CARRYING ATTACHMENT FOR VEHICLES. JAMES H. BOOGASS, Fond Du Lac, Wis., assignor to Longdin-Brugger Company, Fond Du Lac, Wis., a Corporation. Filed May 19, 1919. Serial No. 298,172. 9 Claims. (Cl. 296—140.)

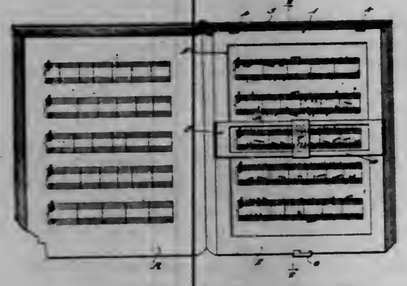
1. A vehicle top including an arched frame, curtain frame guideways supported by said arched frame, said

guideways extending upwardly along one side of said arched frame and then curving inwardly at different heights to extend across the top portion of the latter, and a flexible curtain slidable in said guideways, said curtain comprising two spaced flexible strips which are



slidable in said guideways, and transverse struts connecting said strips, the transverse strut at the upper edge of the frame of said curtain being readily adjustable torsionally to prevent binding of the upper edge of said curtain as it passes around the curved portions of said guideways.

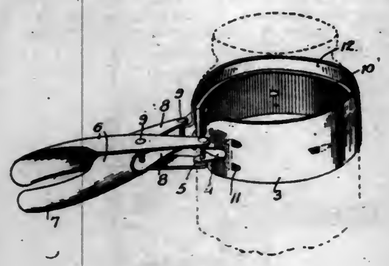
1,456,670. ATTACHMENT FOR MUSIC SHEETS. MARY M. BROWN, Elberton, Ga. Filed May 31, 1921. Serial No. 473,604. 3 Claims. (Cl. 84—470.)



1. A device for teaching persons how to read music comprising a frame composed of pair of pivotally connected sections, the front section having an opening of sufficient size to permit the notes to be seen therethrough, a vertically shiftable track extending crosswise of said front section, said track having hooks at its ends slidably engaging the vertical edges of said sections, and an indicator slidably mounted on the track for cooperation with the aforesaid notes.

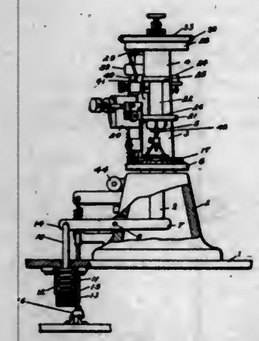
1,456,671. FRUIT-JAR HOLDER. JACOB S. BUCKWALTER, Philadelphia, Pa., assignor of one-half to Lewis H. Shank, Paradise, Pa. Filed Nov. 30, 1921. Serial No. 518,842. 1 Claim. (Cl. 81—33.)

A combined fruit jar holder and lifter comprising a flexible metallic band adapted to embrace the body of the jar, the respective end portions of said band having integral and up-turned portions providing pairs of perforated lugs, a pair of pivotally mounted handles connected to said lugs for contracting the band against the



jar, one edge of said band being crimped inwardly to form a ledge for engaging against the shoulder of the jar when in one position, and providing a supporting element for the jar when applied thereto in another position.

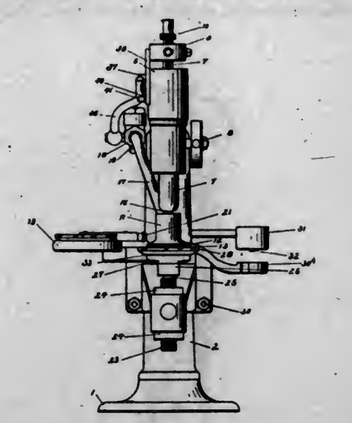
1,456,672. CUTTER. OCTAVE DEGRENIER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 10, 1920. Serial No. 380,190. 15 Claims. (Cl. 33—28.)



1. A lens cutter including a frame, a cutter carried by the frame and means for automatically forcing the article to be cut with uniform pressure in the direction of the cutter.

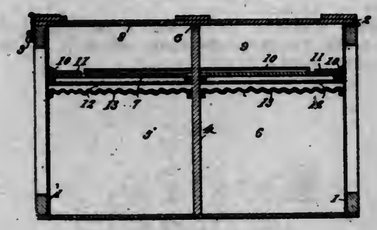
1,456,673. BLOCKING MACHINE. GILBERT S. DEY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 10, 1919. Serial No. 337,090. 21 Claims. (Cl. 51—277.)

5. A machine of the character described, including a base, a plunger supported by the base and a table rotatable on the base, said member having a lens blank supporting portion and a lens block receiving portion



adapted to be selectively presented in predetermined position with respect to the plunger through rotation of the table.

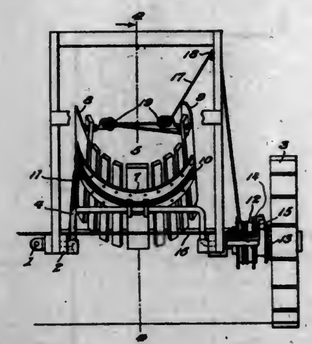
1,456,674. SHIPPING CRATE. HAMILTON MICHELSEN, Miami, Fla. Filed Aug. 17, 1922. Serial No. 582,336. 1 Claim. (Cl. 217—7.)



A refrigerator shipping crate for the transportation of fruit, comprising a box having its interior divided into a fruit receiving compartment and a superimposed ice receiving compartment, a removable horizontally disposed partition piece separating the said compartments and forming a bottom for the ice receiving compartment, a vertical partition piece within the fruit receiving compartment for dividing the same vertically into a plurality of compartments and on which said removable partition piece rests, said partition piece dividing said ice receiving compartment vertically into a plurality of compartments, a layer of cellular material horizontally supported below the said bottom to provide an air space between said bottom and the fruit within the receptacle, and partly supported by said vertical partition piece, and to overlie the fruit within the fruit compartment to maintain the same from contacting with the undersurface of the bottom, weep openings formed in the walls of the ice compartment for the escape of the water therefrom, a cover for the ice compartment, and means for locking the cover to the crate.

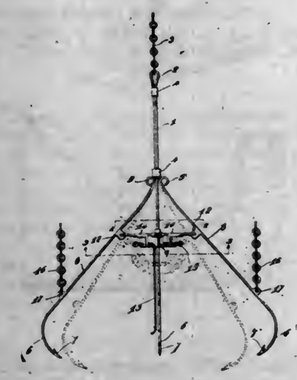
1,456,675. BUNDLE CARRIER AND SHOCKER. JOHN MILLER, Calvin, N. Dak. Filed Oct. 12, 1920. Serial No. 416,340. 2 Claims. (Cl. 56—401.)

1. A shocker attachment for binders comprising a wheeled frame, a yoke pivotally mounted on said frame, a spring influenced flexible carrier pivotally secured to said yoke, a pair of plates secured to opposite sides of the carrier, spring means for holding the yoke in lowered



position, spring influenced clutch means connected to said plates for successively folding, raising and tilting the carrier, and means for controlling the movement of said clutch means.

1,456,676. TRAP. MANSFIELD MARTIN MOFFITT, San Antonio, Tex. Filed Sept. 14, 1921. Serial No. 500,524. 1 Claim. (Cl. 43—89.)

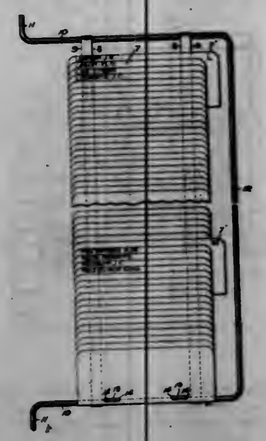


A trap of the class described including a stem, spring hook arms extending at an angle from said stem, an elongated body member arranged between said arms, links hingedly connected to one end of the body and to said arms, a bait member depending from said body, and adjusting screws carried by the links for engagement with the peripheral face of said body whereby to regulate the amount of downward pull to be exerted on the trigger to release the arms to their closed position.

1,456,677. FILING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1919. Serial No. 336,885. 19 Claims. (Cl. 129—16.)

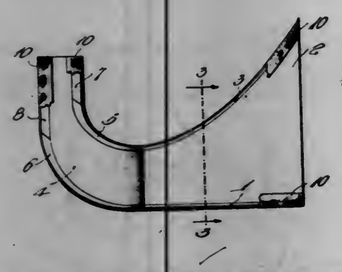
1. In an indexed file, the combination of a guide, a series of overlapping sheets overlying one side of said guide and having overlapping margins presenting identifications, and a series of bars secured to said sheets, re-

spectively, overlying the other side of said guide, and maintaining a minimum exposure of said margins.



17. In a file, the combination of a series of overlapping sheets including one which is substantially larger than the adjacent sheets and divides the sheets into two groups.

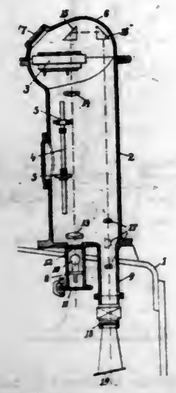
1,456,678. AMPLIFIER FOR SOUND-REPRODUCING MACHINES. PAUL RADER, Miami, Fla. Filed Feb. 23, 1922. Serial No. 538,794. 1 Claim. (Cl. 181—27.)



An amplifier for sound reproducing machines comprising a forwardly flaring horn formed of a plurality of walls, a depending throat telescopically connected with the inner reduced end of the horn, said throat being composed of separate walls, and strips of fabric extending along the corners of the horn and throat and connected with the walls for simultaneously connecting the walls with one another and for connecting the horn to the throat.

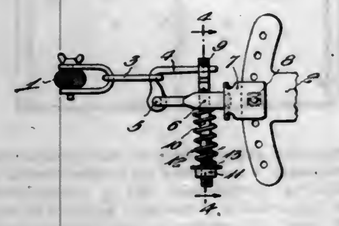
1,456,679. ILLUMINATING DEVICE FOR USE IN CONNECTION WITH MAGNETIC COMPASSES OF SUBMARINE VESSELS. MAX ROUX, Berlin, Germany. Filed Jan. 28, 1921. Serial No. 440,732. 5 Claims. (Cl. 88—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a submarine vessel having a hollow structure extending upwards from the body of the vessel and having a compass with a transparent card in the top of said structure, the combination, with said vessel-body, said structure, said compass and said card, of a branch forming an additional member of the said hollow structure and extending from it down into the vessel body; a source of light located in said branch; means arranged within the hollow structure on a level above that of the compass and being adapted to reverse the direction of the rays so



as to make them return into the body of the vessel on another way; the compass being so arranged as to have its card cross one of said ray ways, for the purpose as described.

1,456,680. CLEVIS. DANIEL RYSON, Emerado, N. Dak. Filed Apr. 14, 1922. Serial No. 552,698. 4 Claims. (Cl. 280—33.16.)



1. A clevis comprising an element for connection with an implement to be pulled, a bill for engagement with pulling means, said bill being loosely connected with said element for swinging movement into and out of an operative position and having a free end portion extending longitudinally of said element when in an operative position, a hook for releasably engaging the free end portion of said bill having a stem slidably carried by said element and extending transversely thereof, a spring upon said stem, and a fastener adjustable upon said stem and engaging the spring to place the spring under tension and normally prevent the hook from moving to a position releasing the bill.

1,456,681. WELL DRILL. ALBERT J. SCHEPP and HERMAN J. SCHEPP, Manhattan, Kans. Filed June 9, 1921. Serial No. 476,292. 9 Claims. (Cl. 255—4.)

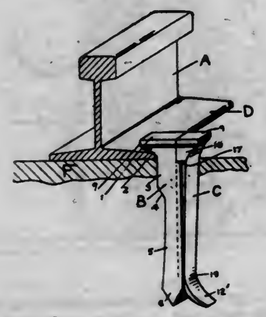
1. A well drill comprising a casing, a bit shaft extending into the casing, a motor in the casing, transmission means in the casing between the motor and bit shaft,

spacing ribs extending longitudinally of the casing, fins pivotally connected with the casing, and resilient means



holding the fins extended radially from the casing for engaging the walls of a well and preventing rotation of the casing in one direction.

1,456,682. RAILROAD SPIKE. WILLIAM H. STEFFER, Worcester, Mass., assignor of one-half to Adolphe D. Major, Worcester, Mass. Filed Feb. 7, 1921. Serial No. 443,302. 2 Claims. (Cl. 85—23.)



1. The combination of a spike having a straight side formed with a transverse shoulder at its upper end and having a longitudinal groove of uniform depth except at its lower end, a locking key having a shoulder for engaging said last named shoulder and a straight back for engaging the back wall of the groove coextensively therewith and having its front side tapering, the lower end of the spike being thicker than certain points thereabove.

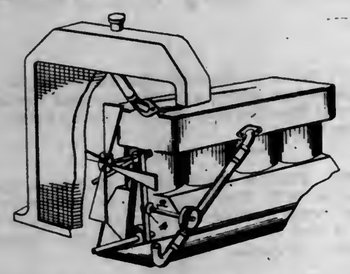
1,456,683. ELECTRIC-LIGHT FIXTURE. MAX H. THURNAUER, Cincinnati, Ohio. Filed Nov. 15, 1921. Serial No. 515,383. 7 Claims. (Cl. 240—52.)

7. A portable electric light fixture, comprising an electric light bulb receptacle, having a base, the base provided with a pair of tangs projecting from its lower side, each of arcuate form and in a plane parallel with



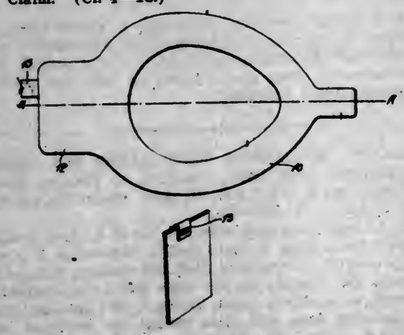
the base lower side for engaging a support under a screw-like action between the tangs and base lower side.

1,456,684. WATER-CIRCULATING MACHINE RUN BY THE FAN BELT FOR GASOLINE ENGINES ON AUTOMOBILES. JOSEPH CARL VOIGT, Los Angeles, Calif. Filed June 24, 1921. Serial No. 480,188. 1 Claim. (Cl. 123—175.)



In an internal combustion engine having a cylinder block, a water jacket therefor, a radiator, connections between the radiator and the water jacket, and a belt-driven fan for drawing air through the radiator, a cooling water circulator comprising a casing inserted in the inlet to the water jacket of the engine, a shaft extending into the casing and perpendicular to the plane of the cylinder block, an impeller mounted upon the shaft within the casing, and a pulley mounted upon the shaft outside the casing and adapted to be engaged and driven by the edge of the fan belt.

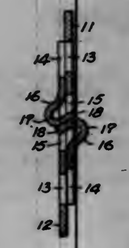
1,456,685. SANITARY SEAT COVER. IDA D. WILDER, Lake City, Fla. Filed June 7, 1920. Serial No. 387,080. 1 Claim. (Cl. 4—18.)



A sanitary seat cover comprising a body portion adapted to fit a conventional toilet seat, a flap formed at the

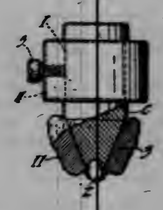
front end of said body portion adapted to be folded beneath the toilet seat, a flap formed at the rear end of said body portion, a securing flap formed on said last named flap, and adhesive material provided on said securing flap whereby when folded into packet form said securing flap may be utilized to retain it in said position.

1,456,686. FUSIBLE LINK. WILLIAM H. BAKER, Montreal, Quebec, Canada. Filed Dec. 19, 1919. Serial No. 346,003. 3 Claims. (Cl. 169—42.)



1. In a device of the class described, a pair of apertured plates each having a tongue projecting through the aperture of the other plate and into sliding contact with the other tongue.

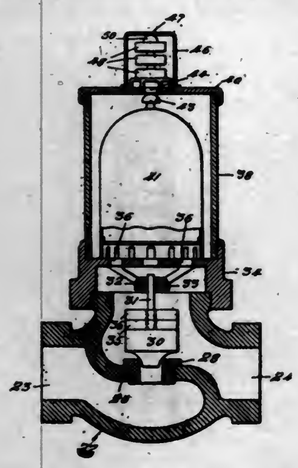
1,456,687. STYLUS MOUNTING. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 11, 1919. Serial No. 344,092. 11 Claims. (Cl. 274—38.)



2. A stylus mounting comprising a holder having a reduced end portion, a stylus partially embedded in said holder and extending from the end of said portion, and a reinforcing collar electro-plated on said end portion, substantially as described.

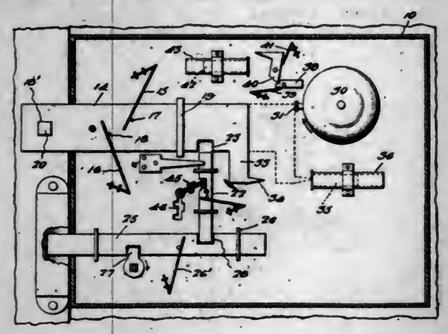
1,456,688. EQUALIZING VENT VALVE FOR VAPOR HEATING SYSTEMS. CHARLES A. FULLER, Mount Vernon, N. Y. Filed Feb. 27, 1922. Serial No. 539,381. 2 Claims. (Cl. 236—62.)

1. An equalizing vent valve for use in a vapor heating system comprising a main casing containing a check valve adapted to open only when the pressure on one side exceeds the pressure on the other side by a substantial amount, an auxiliary casing having a vent opening therein mounted upon said main casing, the inside of said auxiliary casing being in direct and free communication with the outlet side of said main casing, a normally open vent valve controlling the vent in said auxiliary casing, and means located in said casing and responsive to the



heat of steam passing through said check valve for closing said vent valve promptly when said check valve opens and allows steam to pass therethru.

1,456,689. ALARM LOCK. GIOVANNI GESMUNDO, New York, N. Y. Filed July 8, 1921, Serial No. 483,311. Renewed Apr. 6, 1923. 2 Claims. (Cl. 116—8.)

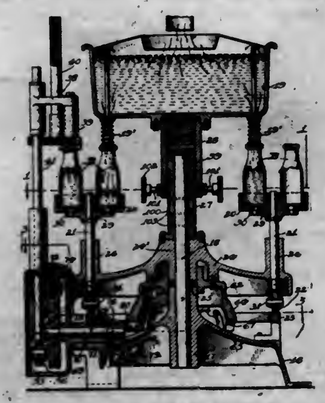


1. In a lock, a bolt movable longitudinally a slidable bar parallel with said bolt, a device movable between said bar and bolt and holding one of said elements inoperative when the other is free, means for retaining one end of the bar in engagement with the door frame, means causing the movement of the slidable bar when free of the frame, and an alarm mechanism operative upon such sliding movement and upon impact of that end of the bar opposite to that engaging the door frame.

1,456,690. FILLING AND CAPPING MACHINE. MOSES GOLDBERGER, Chicago, Ill., assignor to Cresco Creamery Supply Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1921. Serial No. 442,738. 40 Claims. (Cl. 226—76.)

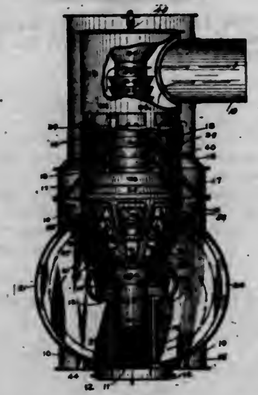
1. In a filling and closing machine, a revoluble twin receptacle support, a filling mechanism and closing mechanism spaced radially to the axis of revolution of

the support and cross a circumferential line concentrically enclosing said axis, with the support traveling to and past the closing mechanism, and means to shift receptacles



while sustained on said support from operative relation to the filling mechanism to operative relation to the closing mechanism, and vice versa.

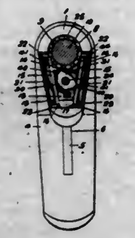
1,456,691. FUEL ECONOMIZER. WILLIAM G. GRIFFIN, Washington, D. C. Filed June 12, 1922. Serial No. 567,646. 15 Claims. (Cl. 110—51.)



1. A combustion device comprising a chamber forming an enlarged interposed portion of the exhaust conduit of a furnace, and a mixing nozzle within said chamber having an air inlet and having its discharge end within the exhaust conduit at a point in advance of the discharge of the products of combustion within said chamber, said nozzle having passages communicating with the interior of said chamber for the induction into the nozzle of the products of combustion.

1,456,692. RATCHET HAND TOOL. JOHN M. HARGRAVE, Cincinnati, Ohio. Filed Oct. 22, 1919. Serial No. 332,514. 1 Claim. (Cl. 145—75.)

In a device of the class described, a handle providing a counterbore, in one face thereof, a tool providing circumferenential ratchet teeth adjacent one end thereof, said end and teeth rotatively stepped in said counterbore, with said tool at right angles to said handle, spring pressed pawls engageable simultaneously and independently with said ratchet teeth, pivoted means for controlling said pawls, and a cover enclosing and retaining said pawls, springs, and latch, and engaging the said



ratchet teeth, to retain said tool in its counterbore, the pivot for said controlling means engaging and securing said cover.

1,456,693. OIL WELL. JOHN N. HICKS, Tulsa, Okla., and CHARLES A. ELLIOTT and PRICE DUNBAR, Breckenridge, Tex.; said Dunbar assignor to said Hicks. Filed Jan. 3, 1922, Serial No. 526,737. Renewed Oct. 2, 1922. Serial No. 591,984. 5 Claims. (Cl. 166—2.)

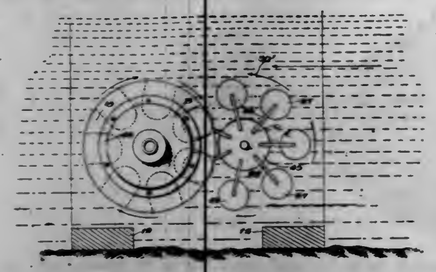


1. An oil well comprising a casing, a liquid eduction conduit arranged therein and having a liquid chamber embodying a sleeve which is such in diameter as to form a comparatively small gas space between itself and the casing, said sleeve being formed with a plurality of gas intake ports closed by valves, and packing arranged between the conduit and casing below said chamber to prevent the passage of gas downwardly into the well to disturb the oil-sand.

1,456,694. PUMP. LEO L. INGRAHAM, Gooding, Idaho, assignor of one-fourth to Erle Whipkey, Gooding, Idaho. Filed June 20, 1921. Serial No. 478,890. 5 Claims. (Cl. 103—126.)

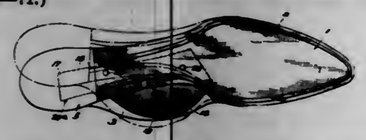
1. In a device of the character described, a rotatable drum having radial pockets arranged circumferentially upon the periphery thereof, said pockets open at their outer ends, and having lateral recesses in their inner ends, a hollow axle supporting said drum at one side and communicating with said lateral recesses, a one way valve controlling each lateral recess, said valves adapted to open and permit liquid to escape from the pocket into the hollow axle upon predetermined pressure in the pockets, a wheel comprising a plurality of radial spokes, each spoke carrying at its outer end a

cylindrical plunger adapted to have rolling contact with and move within said pockets, and means for po-



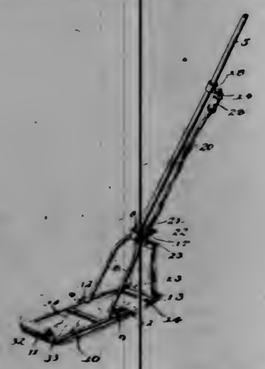
sitioning said wheel whereby upon rotation thereof its plungers move into and out of said pockets for the purpose described.

1,456,695. SHOE. JACOB F. JONAS, Bellevue, Ky. Filed Sept. 3, 1920. Serial No. 407,937. 6 Claims. (Cl. 36—71.)



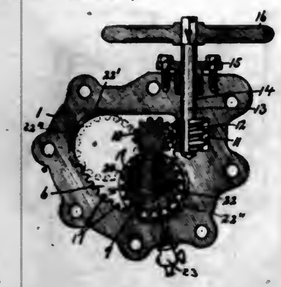
6. An insole having a greater thickness of material at the shank portion thereof, an instep extension from the inner side of the shank portion, and an arch plate for the shank portion of said insole, having an instep extension, the heel and shank portions of the insole being offset laterally to form an arched elevation at the shank and secured in its offset position to the plate.

1,456,696. FLOOR AND WALL MOP. JOHN FRANCIS KELLY, Elkins, W. Va. Filed Feb. 28, 1922. Serial No. 540,052. 4 Claims. (Cl. 15—120.)



1. A mop comprising a supporting member, arms carried by the supporting member, a frame pivoted to the arms, a mop cloth comprising a strip folded upon and beneath the frame, said frame being formed to prevent displacement of the strip, the extremities of the strip being disposed in contact, a feed screw carried by the supporting member and having one end thereof connected to said extremities of the strip, and an operating member in the form of a nut engaged on the screw for movement longitudinally thereof to impart a revolving motion to the screw so as to twist the strip.

1,456,697. BLOW-OFF VALVE. WILLARD A. KITTS, Jr., Mountain Lakes, N. J., assignor to Isaac L. Kitts, Fort Myer, Va. Filed Oct. 6, 1919. Serial No. 328,799. 9 Claims. (Cl. 251—54.)



1. In a valve mechanism of the character described, the combination of a case having a passage therethrough, and a chamber extending some distance to one side of and at right angles to the passage, a valve movable in said chamber to and from a position across said passage and having an independent rotary movement about its axis, means for rotating the valve in one direction about its axis while in its closed position and also for rotating the valve in a reverse direction, and means cooperating with the first named means for causing said valve to move from its closed position toward an open position with a rolling motion when its direction of rotation is reversed.

1,456,698. JAR LIFTER. JOHN L. KIVLAN, Boston, Mass. Filed Jan. 11, 1921. Serial No. 436,524. 1 Claim. (Cl. 294—33.)

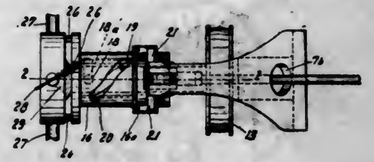


A jar lifter comprising a single piece of wire bent into a coiled spring and having its ends bent into substantially symmetrical crossed members, handle members intermediate said crossed members and said spring, and substantially parallel gripping members in planes perpendicular to that of said crossed members, one of said crossed members comprising parallel spaced parts of said wire and the other of said crossed members being adapted to slide between and to be guided by said spaced members.

1,456,699. AIR-CIRCULATING SYSTEM. RUDOLPH KRAMER, Sheyenne, N. Dak. Filed Sept. 2, 1921. Serial No. 498,115. 2 Claims. (Cl. 170—163.)

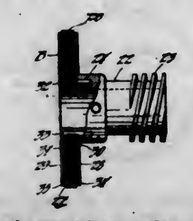
1. In a device of the character described, a fan comprising a hub having slots in the rear face thereof,

radially extending blades having respectively a shank turnably journaled through said hub and a rearwardly extending pin for extension through said slots, said hub having a rearwardly extending sleeve, and a pulley mounted on said sleeve, and a collar turnably mounted



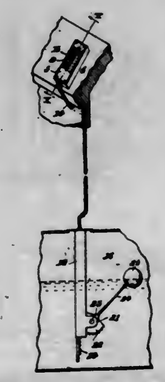
on said sleeve, and means for limiting the turnable movement in relation to said sleeve, said collar having a peripherally recessed flange for engaging said pins, and a reciprocative element for operating said collar, and means for actuating said element.

1,456,700. RESILIENT GEARING. CHARLES W. LUHR, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Nov. 10, 1920. Serial No. 423,084. 6 Claims. (Cl. 74—29.)



1. A gear wheel comprising a body portion made up of a plurality of peripherally toothed plates or laminations rigidly secured together at their central portions so as to be incapable of relative bodily rotary movement, and with the outer portions free but contiguous, and a pair of reinforcing plates respectively disposed at the sides of said body portion, one of said reinforcing plates having teeth corresponding to and registering with but of less height than the teeth of the adjacent lamination, substantially as described.

1,456,701. LIQUID-LEVEL INDICATOR. HANS LUNDQUIST, Chicago, Ill., assignor to United States Specialty Corporation, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1921. Serial No. 477,167. 7 Claims. (Cl. 73—82.)



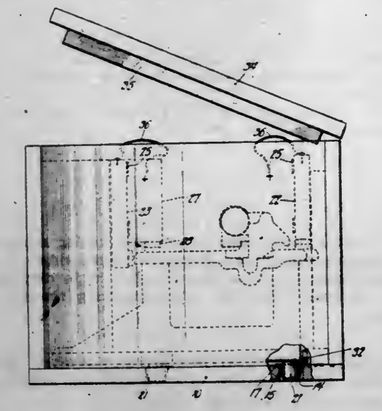
1. A liquid level gage comprising in combination a vertically movable indicator member, a flexible wire attached directly thereto, a float and float-actuated means operated by the upward movement of the float and connected directly to the other end of said wire for exerting a pull upon said wire and lowering said indicator member.

1,456,702. PROCESS OF MAKING ALDEHYDE AMMONIA. HOWARD W. MATHESON, Montreal, Quebec, Canada, assignor to Shawinigan Laboratories Limited, Montreal, Canada. Filed Sept. 17, 1920. Serial No. 410,935. 11 Claims. (Cl. 250—141.)

7. A process of making an aldehyde ammonia, which comprises passing an aldehyde and ammonia in substantially equimolecular proportions into ethyl acetate, and maintaining a temperature not above 50° C.

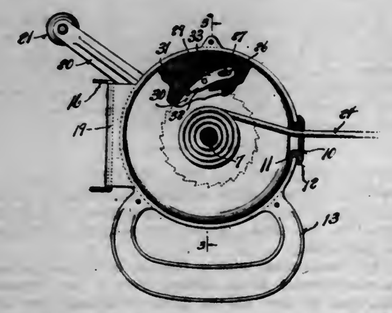
8. A continuous process according to claim 7, having the additional step of continuously removing the aldehyde ammonia from the ethyl acetate by continuously circulating the same through a filtering apparatus.

1,456,703. CARRYING AND SHIPPING CASE. LOUIS W. MECKSTROTH, Chicago, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed June 3, 1921. Serial No. 474,612. 16 Claims. (Cl. 217—53.)



1. A container for a device with resilient supporting feet, having sockets for receiving said feet, said sockets being provided with supports upon which said feet may rest for supporting said device in said container on said feet so that said feet form a cushion for said device in said container.

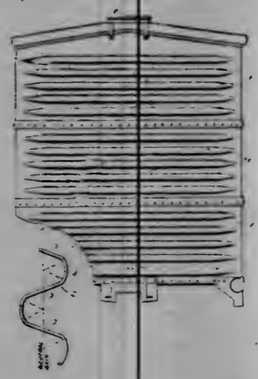
1,456,704. CLOTHESLINE REEL. LOUIS MEDVED, Milwaukee, Wis. Filed July 3, 1922. Serial No. 572,641. 2 Claims. (Cl. 242—101.)



1. A clothes line reel comprising a two-part stamped casing having rearwardly and outwardly projecting ears,

a drum mounted within said casing, an external handle for operating said drum, a line passed into said casing and secured to said drum, a fixed support having a slot therein adapted to receive said ears to temporarily hold said winding reel in position, pawl and ratchet means for locking said drum in adjusted position, and a handle located below said casing and having two complementary half sections each formed integrally with the corresponding part of the two part casing.

1,456,705. CORRUGATED-SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Filed July 17, 1920. Serial No. 397,110. 10 Claims. (Cl. 105—410.)



1. A sheet metal plate for car ends having a plurality of parallel corrugations therein with the ridges of the corrugations formed on the arc of a circle merging on arcs of lesser radii into webs connecting the adjacent ridges.

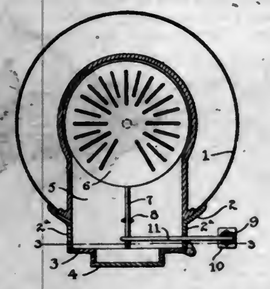
1,456,706. SHEEP PROTECTOR. ROY MURRAY, Jensen, Utah. Filed Jan. 26, 1921. Serial No. 440,070. 3 Claims. (Cl. 119—106.)



1. A sheep protector comprising a collar including side members having upper and lower longitudinal elements provided with interengaging straps, each of the side members including members movably connected with the upper and lower elements, and a swinging member carried by each upper element and disposed between the slidable members.

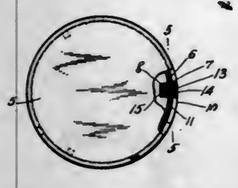
1,456,707. FURNACE-GRATE SHAKER. OSCAR P. NYSTROM, Holland, Mich., assignor to Holland Furnace Company, Holland, Mich., a Corporation of Michigan. Filed Feb. 10, 1921. Serial No. 443,770. 2 Claims. (Cl. 126—169.)

1. The combination with a furnace having a movable grate, an extended front casting with a door opening therein, and an arm on the grate extending into said extended front casting, of a grate shaker comprising a lever pivotally anchored at its lower end to the furnace foundation at one side of said extended front casting and



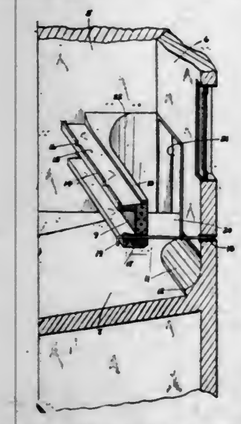
reciprocable in a plane parallel with said door opening, and means for connecting the lever between its ends to said arm.

1,456,708. PISTON. ALDEN E. OSBORN, New York, N. Y. Filed June 29, 1920. Serial No. 392,634. 11 Claims. (Cl. 74—108.)



1. The combination with a piston provided with a groove and with a socket in the back wall of said groove, of a packing ring seated in said groove, and an inwardly projecting positioning pin secured to and carried by said ring and loosely fitting in the socket aforesaid, said pin comprising a bushing having an angular outer end engaging a corresponding seat in the ring and a stud for securing the bushing when thus seated to the ring.

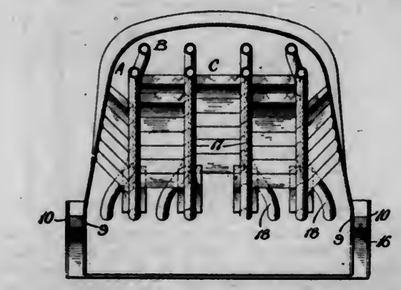
1,456,709. SLAUGHTERHOUSE CONSTRUCTION. CHARLES PANCERO and JACOB FREUND, Cincinnati, Ohio. Filed Jan. 2, 1923. Serial No. 610,267. 2 Claims. (Cl. 17—30.)



1. A slaughter house construction comprising a walled enclosure, a floor within said walled enclosure inclined

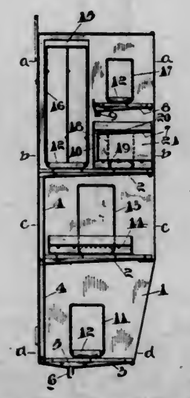
downwardly from the walls to the center, a girder extending between opposite walls above the floor and located adjacent to one of the remaining walls of the enclosure a distance adapted to permit the passage of cattle between the girder and the adjacent wall, a walk upon the girder, and spacer rods adapted removably to be located between the girder and the adjacent wall and at spaced intervals relatively to each other.

1,456,710. LOCOMOTIVE-FIRE-BOX STRUCTURE. LE GRAND PARISH, Mountain View, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed June 4, 1919. Serial No. 301,786. 3 Claims. (Cl. 122—71.)



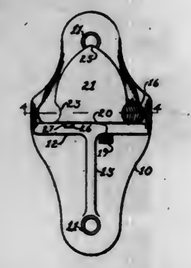
1. A boiler fire box construction comprising in combination, a forward water leg, a rear water leg, a plurality of arch tubes connecting said legs, said tubes being arranged in two rows with the tubes of one row located respectively in substantially the same vertical planes as the tubes of the other row, said tubes being connected to a sheet of the forward water leg in substantially the same horizontal plane, and baffling bricks supported on the tubes, the bricks on the upper tubes being arranged to present a solid central arch with spaces at the sides and the bricks on the lower tubes being arranged to present solid side arches with a space therebetween and beneath the solid central arch.

1,456,711. DRYING CABINET. CASPER L. M. PETERSEN, Toronto, Ontario, Canada. Filed Dec. 28, 1921. Serial No. 525,476. 6 Claims. (Cl. 141—11.)



1. A drying cabinet comprising a casing open at the front; a plurality of drip pans supported therein at different levels, each upper pan having its bottom sloping from the ends and front to the middle of its back edge and connected to the back of the cabinet, removable racks supported above said pans; a drainage discharge from the lowermost pan; and means for leading the drainage of the upper pans to the same discharge point without interference with dishes supported in the racks.

1,456,712. CLOTHESLINE GRIP. HARRY H. PODJUS, Chicago, Ill. Filed July 15, 1922. Serial No. 575,227. 6 Claims. (Cl. 24—134.)



2. In a clothes line gripping device, a rotatably mounted gripping member, having a height more than twice the diameter of the clothes line, the upper portion of said member terminating in a bluntly rounded point, and gently curved guiding surfaces extending from said point downward to gripping position.

1,456,713. ANTISAND BEARING. GOMER W. PRICE and CURT F. ZIMANSKY, San Francisco, Calif., assignors to G. W. Price Pump and Engine Company, San Francisco, Calif. Filed May 21, 1921, Serial No. 471,456. Renewed Mar. 17, 1923. 7 Claims. (Cl. 103—103.)



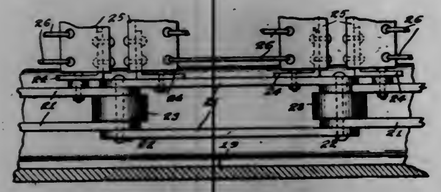
1. The combination with a rotary well pump provided with bowls having water passages, a shaft and runners mounted therein, of a bearing mounted within each bowl to receive said shaft; and a suction chamber enclosing said bearing and arranged to cause sand admitted into said chamber above said bearing to be drawn away from said bearing by suction created within the chamber when the runners are operated.

1,456,714. WELL-PUMP CONSTRUCTION. GOMER W. PRICE and CURT F. ZIMANSKY, San Francisco, Calif., assignors to G. W. Price Pump and Engine Company, San Francisco, Calif. Filed May 21, 1921, Serial No. 471,457. Renewed Mar. 17, 1923. 9 Claims. (Cl. 103—102.)



1. A well pump construction comprising a discharge casing; a shaft rotatably mounted and centered within said casing; a shaft casing enclosing the shaft; and means for placing the shaft casing under a compression and the discharge casing under tension to truss said shaft casing whereby a rigid support may be provided for the shaft.

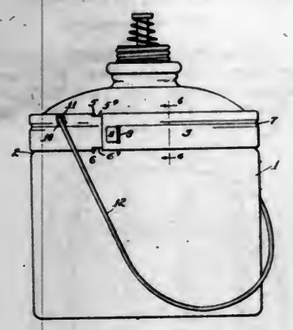
1,456,715. CONVEYING MECHANISM. AMZI G. RECK, Columbus, Ohio. Filed July 3, 1919. Serial No. 308,449. 2 Claims. (Cl. 198—193.)



1. In a cooling apparatus for bakery products, a pair of spaced stationary rails, a chain movable longitudinally along each of said rails, said chains including a plurality of aligned link sections having pivotally united adjoining ends, bars extending transversely of said chains and having the ends thereof connected with said link sections intermediately of the pivotal connections between the latter, there being a pair of said bars to each pair of adjacent link sections, and a support of open work construction between the inner edges of each pair of said bars and between the pivotal connections of said link sections, said support serving to permit of normal flexing on the part of said chains.

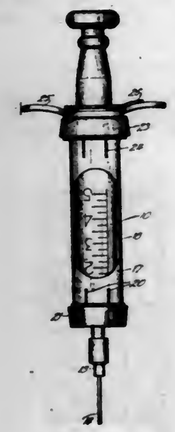
1,456,716. BAIL-ATTACHING MEANS. MARC RESEK, Cleveland Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1919. Serial No. 289,600. 5 Claims. (Cl. 220—85.)

3. In combination with a vessel, a member for attachment to said vessel, said member having outwardly bulged portions that are disposed substantially diametrically opposite each other, the upper slope of each bulged portion having an aperture, a bail having its ends turned inwardly to provide hooks that may be engaged through said apertures when the bail occupies a



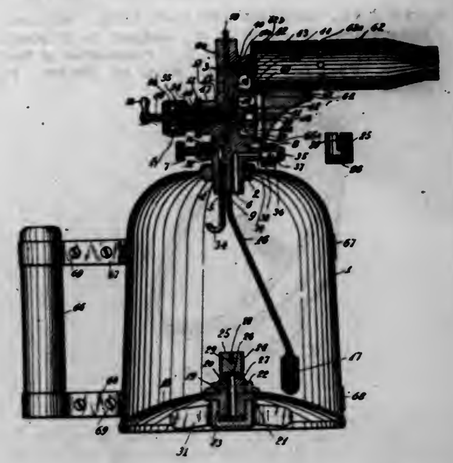
position below and substantially perpendicular to the plane of said member, the vessel being so proportioned that when the member is applied to the vessel the bail will engage the side of the vessel and thereby be prevented from assuming the aforesaid perpendicular relation to the member.

1,456,717. HYPODERMIC SYRINGE. ARTHUR E. SMITH and ARTHUR D. GRAY, Chicago, Ill. Filed Apr. 7, 1921. Serial No. 459,354. 8 Claims. (Cl. 128—218.)



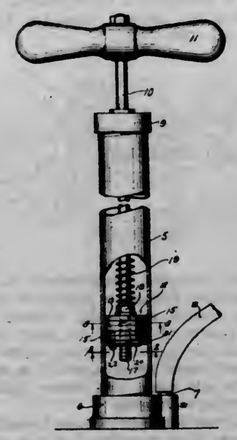
1. In combination with a syringe comprising a glass barrel having a rounded shoulder at its lower end, a fenestrated frame fitting around the barrel and provided at its lower end with an inturned lip having a conical surface arranged to bear against said shoulder, longitudinal slits in the lower end of the frame dividing said lip into a plurality of sections, and means carried by the frame for holding the several sections of said lip tightly against the aforesaid rounded shoulder.

1,456,718. BLOWTORCH. JAMES B. ANDERSON, Pittsburgh, Pa., assignor to Pumpless Blow Torch Company, Pittsburgh, Pa. Filed Sept. 28, 1921. Serial No. 503,838. 1 Claim. (Cl. 158—33.)



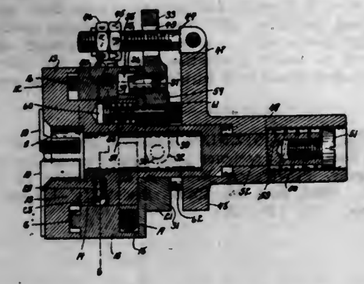
In a torch, the combination of a plurality of burners of the character described; a test-valve; a tube connecting said test-valve with the tank of said torch; an upward bend provided at the lower end of said tube, and a filling-valve positioned centrally of the bottom of said torch.

1,456,719. TIRE PUMP. HENRY J. BOOSTED, Kenosha, Wis. Filed Oct. 22, 1920. Serial No. 418,641. 1 Claim. (Cl. 230—27.)



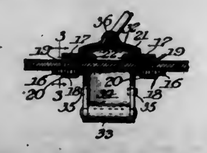
A tire pump comprising a cylinder; a piston provided with split metallic packing rings workable within said cylinder, and provided with a port extending longitudinally therethrough eccentric of its axis; a non-metallic disc positioned upon the bottom face of said piston, adapted to control the passage of fluid through said port; a yieldable metallic disc positioned beneath said first disc and in intimate contact with its lower surface; a curved elongated spring member engaging the lower surface of said last mentioned disc; and a screw securing one end of said spring member, and both of said discs to the lower surface of said piston at a point substantially diametrically opposite to said port.

1,456,720. SELF-OPENING DIE HEAD. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn., a Corporation. Filed Apr. 1, 1921. Serial No. 457,801. 3 Claims. (Cl. 10—96.)



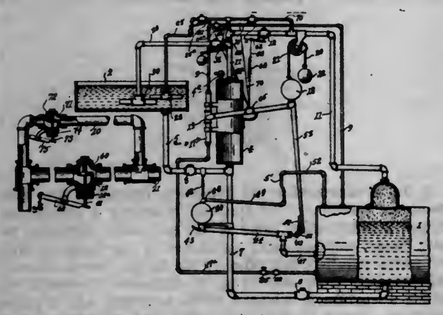
1. A self-opening die-head having a body, chasers, a cam-ring, a cam-ring spring, a back-plate mounted upon the body and holding the cam-ring in place thereupon, and a pivotal tripping-mechanism carried by the back-plate and including a locking-bolt coacting with the cam ring to hold the same in the closed position of the chasers against the tension of the cam-ring spring.

1,456,721. BAG FITTING. HENRY J. CHILTON, Chicago, Ill. Filed Dec. 3, 1920. Serial No. 428,053. 18 Claims. (Cl. 190—58.)



8. In a device of the class described, the combination of a bag frame, means having a handle secured thereto and means for securing the means having the handle to the frame, said means having the handle having an aperture permitting its adjustment relatively to the frame.

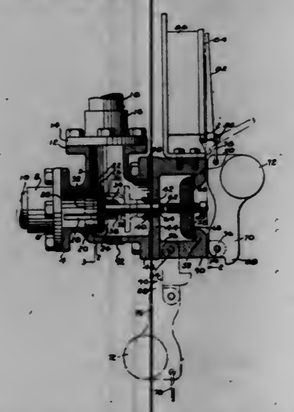
1,456,722. BOILER-FEED WATER SYSTEM. GEORGE W. COPE, Oil City, La. Filed Oct. 18, 1920. Serial No. 417,725. 7 Claims. (Cl. 137—101.)



1. In a gravity feed water system for steam boilers having a charging tank, said tank situated above the

boiler water level and having a valved water inlet and a valved water connection with the boiler's water space and having valved steam connections with the steam space of the boiler an air inlet and outlet and a valved steam outlet combined with means for operating the valves of said valved steam inlet and outlet means for gradually establishing boiler pressure upon the water in said tank to thereby prevent the high speed flow of a large volume of steam upon the water in said tank and prevent a water hammer, said means comprising essentially a primary steam inlet, a valve in said primary steam inlet, means connecting the valve with the valve operating means, a secondary steam inlet, a valve in said secondary steam inlet and an elastic connection connecting the valve of the secondary steam inlet with the valve operating means.

1,456,723. QUICK-OPENING VALVE. JOHN H. DERBY, New York, N. Y., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,386. 5 Claims. (Cl. 169—19.)



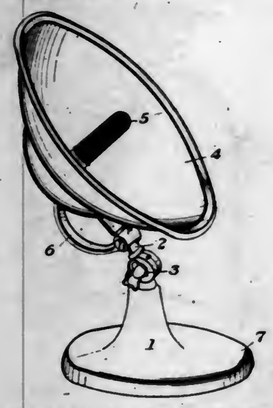
1. In a device of the class described, a valve seat, a valve, means for normally holding said valve closed, said means comprising a retaining member movable into releasing position, and a weight carried by said retaining member for effecting such movement thereof, said weight being first movable relatively to said member into impact therewith and being then movable with said member toward releasing position.

1,456,724. CURTAIN-LIGHT MOUNTING. BERNARD P. DONNELLY, Holland, Mich. Filed Nov. 29, 1922. Serial No. 604,014. 6 Claims. (Cl. 296—145.)



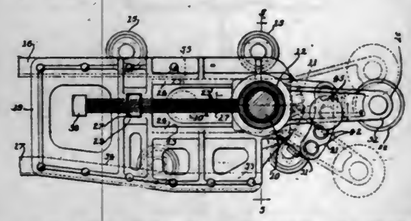
5. In a construction of the class described, an open frame of rubber or like material including a continuous flange, a reinforcing frame of flat bar metal embedded in said flange, said bar being positioned in the flange so that its width parallels the sides of the flange, means extending inwardly from said flange in alignment therewith to which a curtain is adapted to be attached, and a glass retaining means formed integrally with the frame and extending to one side thereof including a second continuous flange substantially paralleling the first flange and spaced therefrom, whereby a continuous groove is formed between the flanges in which the edge portions of a section of glass are adapted to be received and held.

1,456,725. HEATER AND THE LIKE. REINHOLD FERRENBACH, Westville, N. J., assignor to Welsbach Company, Gloucester City, N. J., a Corporation of New Jersey. Filed July 16, 1921. Serial No. 485,200. 10 Claims. (Cl. 126—92.)



1. In a heating device adapted to occupy a normal safe position, a heating element, and means whereby when the device is upset said heating element is moved to a predetermined safe position other than said normal safe position.

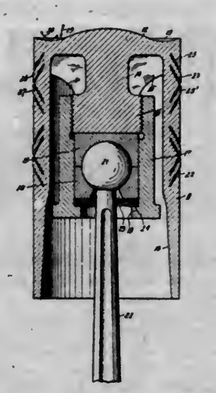
1,456,726. TAKE-UP AND ADJUSTABLE ROLLER. LAWRENCE V. FRALEY, Chicago, Ill., assignor, by mesne assignments, to Standard Conveyor Company, North St. Paul, Minn., a Corporation of Minnesota. Filed Apr. 12, 1919, Serial No. 289,685. Renewed Apr. 16, 1923. 13 Claims. (Cl. 198—103.)



1. The herein described improvement in conveyors, comprising a flexible carriage, a horizontal shaft having sprocket wheels around which the carriage is trained, an idler roller positioned beyond the shaft, bearings for said shaft for taking up said carriage, arms pivoted on said bearings, said roller being rotatably mounted in the free ends of the said arms, and means rigid with said bearings for holding said arms.

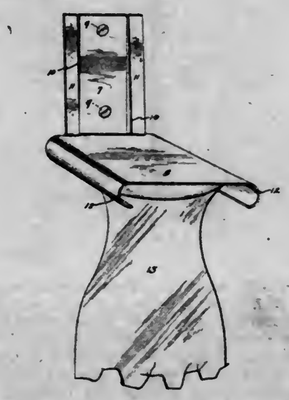
9. The herein described improvement in conveyors, comprising a carriage head consisting of two side frames, upper and lower angle bar tracks, one side of each track being vertical to form lateral conveyor guards and the other side of each being horizontal to form wheel tracks, the vertical flanges secured upon the inner faces of said side frames, a shaft around which the conveyor is trained, the shaft movable in said side frames for adjusting the carriage, the upper angle bar tracks terminating at the inner limit of movement of said shaft, said side frames having integral tracks abutting the ends of the upper bar tracks, said integral tracks forming a continuation of said first tracks.

1,456,727. PISTON. ALDO M. FRANCHI, New York, N. Y., assignor to Franchi Ringless Piston Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1922. Serial No. 540,113. 1 Claim. (Cl. 74—108.)



A piston including a shell having a plurality of pairs of grooves cut into the outer face thereof, the grooves of each pair extending in parallel relation a substantial distance into said shell, thereby forming a resilient ring, the rings on said shell projecting beyond the outer face thereof, each ring being provided with one or more slots.

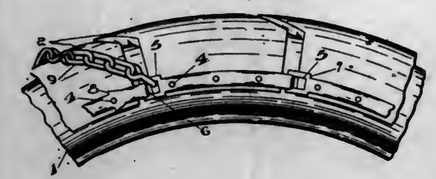
1,456,728. BOTTLE HOLDER. ROSS E. FRANK, Detroit, Mich. Filed July 31, 1922. Serial No. 578,628. 1 Claim. (Cl. 232—41.)



A bottle holder formed of a sheet metal blank bent to form two angularly disposed portions one of which is adapted to be secured to a wall and is slitted to form a plurality of gripping tongues adapted to releasably engage for support a ticket placed therebetween and said other portion of which blank is rolled downwardly upon itself on opposite sides to form opposed gripping jaws adapted to engage the neck of a bottle to support the same.

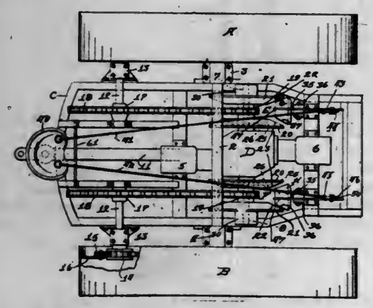
1,456,729. PROTECTIVE TREAD FOR PNEUMATIC TIRES. WILLIAM J. FRASER, Toronto, Ontario, Canada. Filed Apr. 19, 1921. Serial No. 462,698. 10 Claims. (Cl. 152—16.)

6. A tire protector comprising a plurality of flexible non-metallic tread sections, each adapted to extend across the tread of a pneumatic tire and partway down the sides thereof, and connectors at each side flexibly securing the sections together in spaced relationship, the



tread portion of one end of each section being convexly extended circumferentially of the tire and the opposite end similarly recessed to receive the convex end of an adjoining tread section.

1,456,730. TRACTOR. DAVID F. GEIGER, Minneapolis, Minn., assignor of one-third to Arthur D. Cole, Minneapolis, Minn. Filed Oct. 26, 1916, Serial No. 127,814. Renewed Mar. 26, 1921. Serial No. 455,986. 4 Claims. (Cl. 180—17.)

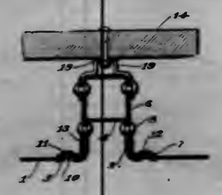


1. Apparatus of the class set forth, comprising, in combination, a pair of revoluble tractor elements, a frame freely hung between said tractor elements, a power unit carried by said frame having a drive shaft, independent transmission elements interposed one between each of said tractor elements and said power unit, each of said transmission elements consisting of a pair of friction gears, one being coupled to the power unit and the other coupled to a tractor element and being urged toward and adapted to clutch the companion friction gear, and a friction pinion interposed between said gears and normally urged out of contact with said friction surfaces, said pinion being slidable to frictionally engage said movable gear, disconnect said friction gears and the driving motion between said power unit and a tractor element and upon further thrust movement of said pinion to engage both of the friction surfaces of said friction gears and cause the reverse revolution of a tractor wheel.

1,456,731. CAR ROOF. GARTH G. GILPIN, Riverside, Ill., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Mar. 25, 1921. Serial No. 455,499. 13 Claims. (Cl. 108—5.4.)

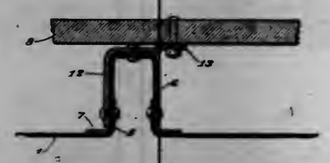
1. In an all metal car roof, roof sheets having their eaves ends secured to the car side plates and having upstanding flanges on their adjacent meeting edges, inverted U-shaped carlines extending from side to side therebetween having outstanding flanges on their side walls resting upon and secured to the car side plates,

inverted U-shaped seam caps having outstanding flanges on their side walls engaging and holding the roof sheets



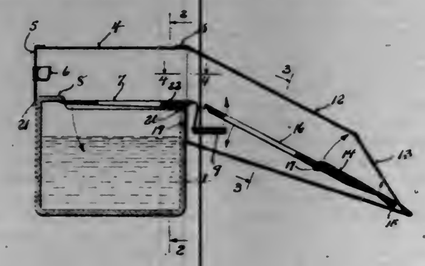
and roof sheet flanges against the carline flanges and side walls, and means securing the seam caps to the carlines.

1,456,732. CAR ROOF. GARTH G. GILPIN, Riverside, Ill., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Apr. 4, 1921. Serial No. 458,502. 9 Claims. (Cl. 108—5.4.)



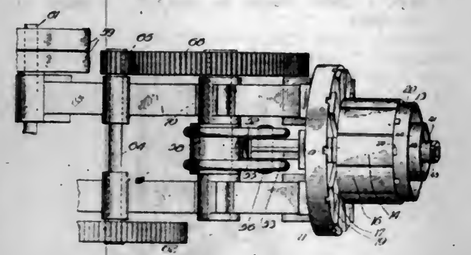
1. In an all metal car roof, roof sheets having their eaves ends secured to the car side plates and having spaced apart adjacent edges provided with continuous upstanding flanges, inverted U-shaped combined carlines and seam caps thereover having outstanding flanges on their side walls resting upon the body of the roof sheets, and a plurality of horizontally disposed rivets securing the roof sheet flanges to the side walls of the carlines.

1,456,733. ANIMAL TRAP. JOSEPH GOTTWALD and ADAM POSLER, Theresa, Wis. Filed Oct. 1, 1921. Serial No. 504,601. 1 Claim. (Cl. 43—76.)



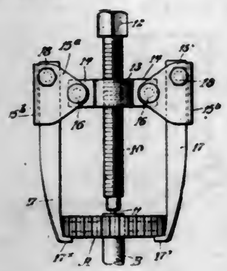
In an animal trap, the combination of a receptacle containing liquid and having a horizontal forwardly extending flange, a casing secured thereto, a trap door pivoted on said casing adapted to contact along its rearward end with the front edge of said flange, a weight normally maintaining said trap door in elevated position, the front of said casing being prolonged to form a passageway, an entrance door pivoted adjacent the front of said passageway, a runway pivoted in said passageway, said entrance door being normally in lowered position but adapted to be raised by the weight of the animal on the rearward portion of said runway to close the entrance to said passageway, said weight being adapted to contact with said runway when said trap door is lowered.

1,456,734. EXPANDING MACHINE. CHARLES G. GROTNES, Chicago, Ill. Filed Apr. 22, 1920. Serial No. 375,702. 19 Claims. (Cl. 78—13.)



2. An expanding machine having, in combination, a main frame, a jaw table secured to the main frame, an outboard support located forwardly of the jaw table, members rigidly securing the outboard support to the jaw table, a circular series of radially movable jaws between the jaw table and the outboard support, the members which secure the outboard support to the jaw table being located within the circle defined by the series of jaws, a drawbar supported for movement axially of the series of jaws, a head piece slidably supported in the outward support, a plunger head on the drawbar, and links connecting said plunger head to said jaws.

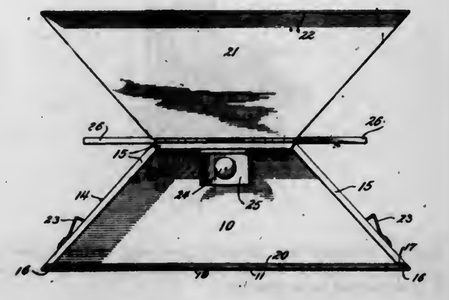
1,456,735. GEAR PULLER. GEORGE L. HUNT, Boscobel, Wis., assignor to The George L. Hunt Manufacturing Company, Inc., Boscobel, Wis., a Corporation of Wisconsin. Filed Apr. 20, 1922. Serial No. 555,760. 4 Claims. (Cl. 29—85.)



1. A gear puller comprising a jack-screw, a block through which said jack-screw extends and with which it has threaded engagement, said block being provided with a pair of fixed arms which project therefrom in opposite directions in lines substantially at right angles to the axis of the jack-screw, a pair of jaw shackles, each of said jaw shackles being substantially U-shaped in horizontal cross section and having its parallel portions pivoted to one of said fixed arms for movement relative to the latter in a plane co-incident with the axis of the jack-screw, and a pair of jaws depending from said shackles, the upper end of each of said jaws being embraced within one of said shackles and being pivoted to its associated shackle, near the upper portion of the shackle, for limited movement relative to the shackle in a plane co-incident with the axis of the jack-screw.

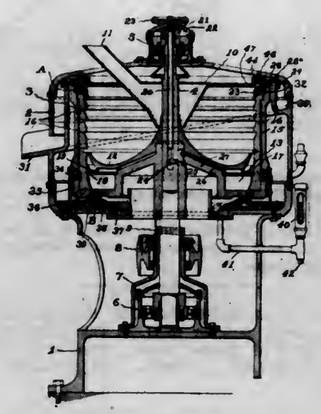
1,456,736. ILLUMINATED-LICENSE-TAG HOLDER FOR VEHICLES. MICHAEL F. KANE, Shaft, Pa. Filed Apr. 28, 1922. Serial No. 557,170. 7 Claims. (Cl. 40—132.)

2. A tag holder for vehicles comprising a housing having forwardly diverging sides forming an opening provided with bottom and side flanges; a tag and associated parts disposed in the guide-ways formed by the diverg-



ing sides and said flanges; and a hinged top for said housing having a flange overlying said tag.

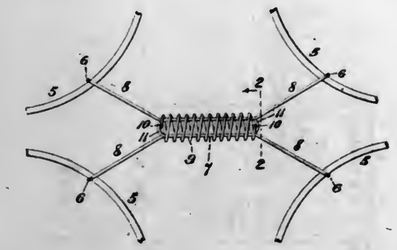
1,456,737. CENTRIFUGAL SEPARATING MEANS. RALPH E. LAPHAM, Oakland, Calif. Filed Aug. 7, 1920. Serial No. 401,883. 18 Claims. (Cl. 83—67.)



1. A centrifugal separating machine of the character described including a rotating bowl provided with a wall over which the separating medium, and pulp flow, a stationary reservoir for the separating medium, and an annular circulation flange carried by the bowl and projecting into the separating medium, said flange being formed of a material for which the separating medium has an affinity and over which it flows in an amalgamated engagement.

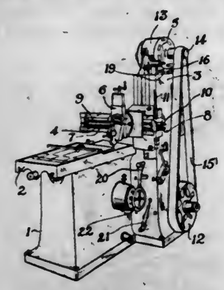
1,456,738. BEDSPRING STRUCTURE. WILLARD O. LATHROP, Cincinnati, Ohio. Filed Aug. 10, 1921. Serial No. 491,259. 1 Claim. (Cl. 5—29.)

In a bed-spring structure, an elastic torsional coupling-member for each group of four or a multiple of helical springs in the structure, such coupling-member comprising a pair of corresponding forked resilient-wire members having fastening-hooks at their forked outer ends adapted to connect with and support the upper coils of respective grouped helixes, U-shape shanks in the said forked members adapted to lie contiguous with each other for sliding-engagement longitudinally along one another, and spiral springs encircling the said slidingly-assembled shanks and having their opposite ends turned inwardly in the guide-ways formed by the said U-shape shanks for coup-



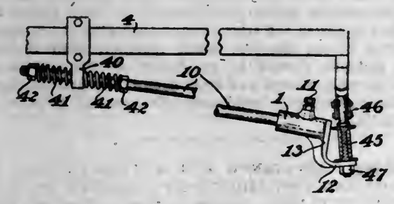
ling the pair of forked members into reciprocating and torsional elastic relation, substantially as and for the purpose specified.

1,456,739. PLANER. JAY EDWARD LEHMAN, Canton, Ohio. Filed Apr. 29, 1921. Serial No. 465,594. 4 Claims. (Cl. 90—24.)



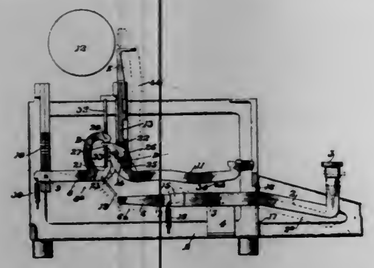
1. In a planer comprising a base having a reciprocating table thereon, and a vertical column provided at one side of the base, and a drive pulley connected to the driving mechanism of the table, a plate upon the column, a motor mounted upon said plate, and adjusting screws for raising the plate to tighten said belt.

1,456,740. FRONT RADIUS ROD. MANFRED W. LINK, Kansas City, Mo. Filed Mar. 19, 1921. Serial No. 453,728. 6 Claims. (Cl. 267—67.)



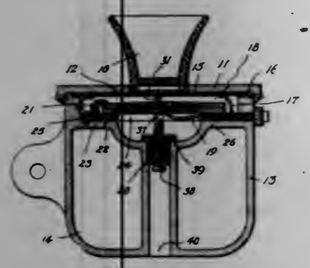
1. A front radius rod for automobiles terminating at its forward end in a clamping block having a toe projecting forward beneath the vehicle axle and adapted to be secured thereto, and an upright face adapted to contact with the rear side of the axle, said toe and upright face being so positioned relatively as to clamp the vehicle axle therebetween when in secured position.

1,456,741. TYPEWRITER. PAUL RICHTER, Daly City, Calif. Filed July 5, 1922. Serial No. 572,943. 4 Claims. (Cl. 197—28)



1. In a typewriting machine of the character described, a type bar pivoted at one end, an upper cam surface formed on the bar adjacent the pivot, the inner end of said cam surface having a curvature of constant radius and the remaining portion thereof having a curvature of constantly increasing radius, a lever engageable with the cam surface to impart a swinging movement to the type bar, a key lever, and means for transmitting movement from the key lever to said last named lever.

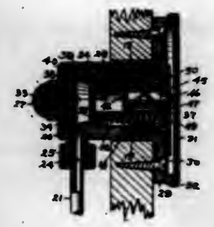
1,456,742. SOUND TRANSMITTER. PAUL V. ROONEY, Morristown, N. J. Filed Apr. 4, 1921. Serial No. 458,513. 8 Claims. (Cl. 179—145.)



1. In a variable resistance device, two approximately flat members comprising a like number of flat spirals arranged directly one above the other, the cross section of each spiral being so shaped that the adjacent surfaces of the mating spirals are adapted to have direct flat contact one with the other, means anchoring the marginal portions of the members firmly together, while the central portions thereof at the center of the spirals are both movable toward and from each other, and conductor means connected to said respective central portions of the spirals.

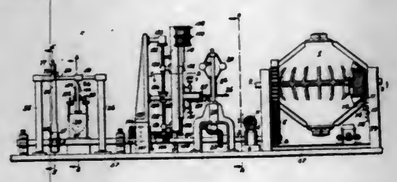
1,456,743. APPLIANCE FOR AUTOMATICALLY INDICATING THE AMOUNT OF GASOLINE IN AUTOMOBILE TANKS. GEORGE A. SZABO, Cleveland, Ohio. Filed Feb. 26, 1921. Serial No. 448,235. 4 Claims. (Cl. 73—111)

1. An appliance for automatically indicating the amount of liquid within a supply tank, comprising an indicator casing having a spring-pressed plunger therein, a cylindrical member affixed to said casing in sleeved connection with said plunger, a spindle with a spiral groove rotatably mounted within said cylindrical member, means connected with said plunger operating within said spiral groove, an index member affixed to said



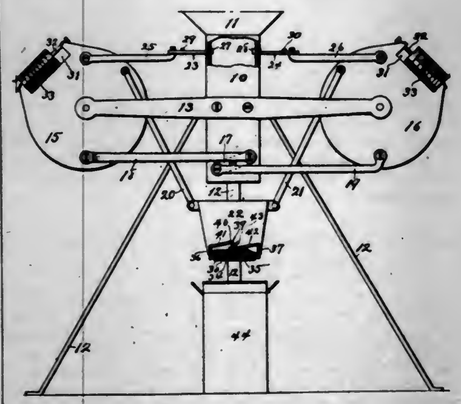
spindle, an index dial mounted upon said casing opposite said index member, a pipe connection adapted to convey a fluid behind said plunger.

1,456,744. CONTROLLING MECHANISM FOR STABILIZING GYROSCOPES. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 4, 1917. Serial No. 194,646. 49 Claims. (Cl. 74—78.)



1. In combination, a stabilizing gyroscope, means for locking said gyroscope against precession and means for rendering said locking means ineffective to lock said gyroscope at a predetermined point in a precession-causing roll, said second named means being controlled by said gyroscope.

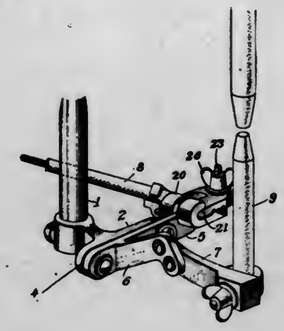
1,456,745. MEASURING DEVICE. REID W. THOMPSON, Turner, Iowa, assignor to H. V. Thompson and R. W. Walls, both of Turner, Iowa. Filed Mar. 27, 1922. Serial No. 547,332. 4 Claims. (Cl. 249—49.)



1. A measuring device, comprising a chute, valves slidingly mounted in said chute, counterbalancing wheels,

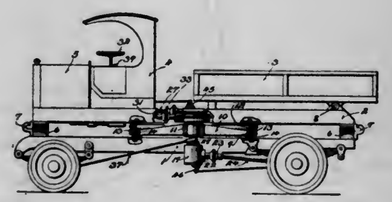
connections between said wheels and valves, hangers on said wheels, a container carried by said hangers beneath said chute, and means for dumping the contents of said container.

1,456,746. CABLE TERMINAL FOR ARC LAMPS. THEODORE F. UHLEMANN, New York, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 29, 1918. Serial No. 264,687. 3 Claims. (Cl. 173—259.)



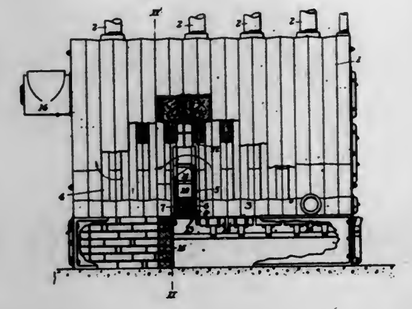
1. In a cable terminal for electrical connectors, the combination of independent clamping members, said members having continuous trough shaped faces of angular cross section with interengaging cutaway portions and projections, and means for drawing said members together with their trough shaped faces opposite to vary the cross section of the bore formed between them and to thereby clamp the conductor in said bore with any desired degree of pressure, said conductor contacting with each of the clamping members along the entire length of the terminal.

1,456,747. MOTOR TRUCK. BENJAMIN O. VOLLENDORF, Iron Mountain, Mich. Filed Oct. 11, 1920. Serial No. 416,256. 4 Claims. (Cl. 180—1.)



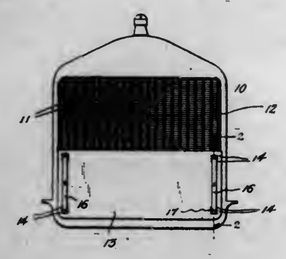
1. In a power vehicle, a vehicle supporting frame, means for driving the vehicle frame, a body frame rotatably mounted on the supporting frame, steering rods connected to the normally front wheels of said vehicle, steering means carried by the body frame connected with the vehicle frame and cooperating with said steering rods for steering the vehicle, and means for turning the body frame end for end with the vehicle frame to dispose said steering means in different positions with respect to the latter.

1,456,748. COMBUSTION DEVICE. SAMUEL B. WATERS, Johnstown, Pa. Filed May 21, 1921. Serial No. 471,494. 1 Claim. (Cl. 110—73.)



The combination in a boiler of a fire box, a bridge wall placed in the fire box, said bridge wall being constructed by sections of refractory material having vertical and horizontal passages therein, such passages extending throughout the width and height of said wall and used for conducting air into the fire box where it is mixed with the gases in the combustion chamber, substantially as described.

1,456,749. RADIATOR PROTECTOR. THOMAS H. WELCH, Hawthorne, N. Y., assignor of one-third to Horace K. Curtis and one-third to John I. D. Bristol, both of Chappaqua, N. Y. Filed Nov. 16, 1921. Serial No. 515,651. 8 Claims. (Cl. 257—132.)



4. In a radiator protector, the combination of a guard member and means to detachably lock the same against the front surface of the radiator, said locking means including a pair of springs having the end portions thereof bearing against the guard member while the middle portions of the springs are extended forward from the guard member, and key means cooperating detachably with the radiator and engaging the forward portions of the springs and serving to hold the same backward with the springs under compression and whereby the key means are held in place.

1,456,750. STOP FOR THE CONTROLLING LEVERS OF AUTOMOBILES. FRANK W. WILLIAMS, Chicago, Ill. Filed Aug. 27, 1920. Serial No. 406,433. 2 Claims. (Cl. 74—39.)

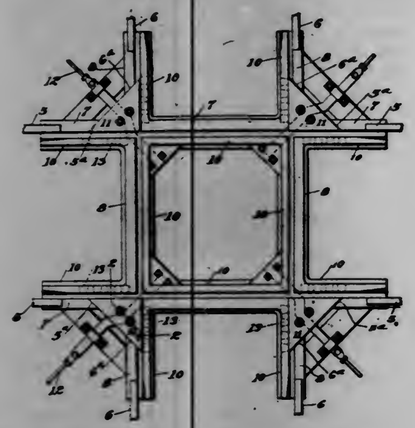
1. A lever, a quadrant over which it moves, a U-shaped stop straddling said quadrant, a screw through one leg of said stop bearing against the quadrant, another screw through the other leg of said stop bearing against

the other face of said quadrant, one of said screws having a means to facilitate manual turning of the same,



and the other screw having means for cooperating with a tool for turning that screw.

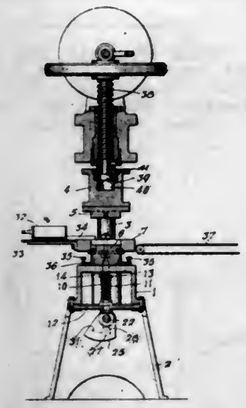
1,456,751. RAILWAY CROSSING. BYRON E. WILSON, Marion, Ohio, assignor to The Eymon Crossing Company, Marion, Ohio, a Corporation of Ohio. Filed Sept. 19, 1921. Serial No. 501,775. 4 Claims. (Cl. 246—380.)



1. In a railway crossing, the combination of rails and rail sections at the crossing, a movable block for forming uninterrupted tread surfaces between the rails and rail sections and apertures at the side of said block forming passageways for dirt and other obstacles said apertures and movable block being so arranged that the block will force dirt and small obstacles through said apertures each of said apertures being widened in the direction of the outlet end thereof.

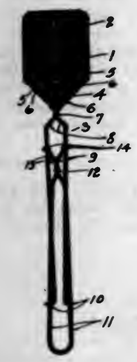
1,456,752. POWER TILE PRESS. EDMUND W. ZEH, Newark, N. J. Filed Oct. 23, 1920. Serial No. 418,891. 31 Claims. (Cl. 25—27.)

1. In a power tile press, the combination of a lower die to receive the material of which the tile is to be formed, an upper die adapted to cooperate with said lower die to compress the material, operating means for moving the upper die into and out of contact with material in



the lower die, and means for enabling successive percutient blows to be struck upon the material while the dies are in contact therewith.

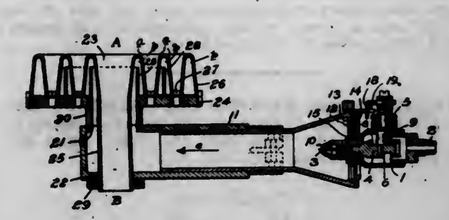
1,456,753. FLY SWATTER. ALFRED K. ANCKER and ROBERT F. MORTON, Denver, Colo. Filed Apr. 18, 1922. Serial No. 554,850. 2 Claims. (Cl. 43—137.)



1. A handle adapted to be used with a fly swatter consisting of a wire bent intermediate its ends and formed into a closed loop adapted to co-operate with a flexible swatter element, the ends extending from said loop portion in spaced substantially parallel relation and provided with eyelets which are adapted to engage the sides of a second elongated U-shaped handle member, the sides of which are twisted together near the ends thereof, the ends being provided with eyelets engaging the sides of the first mentioned member.

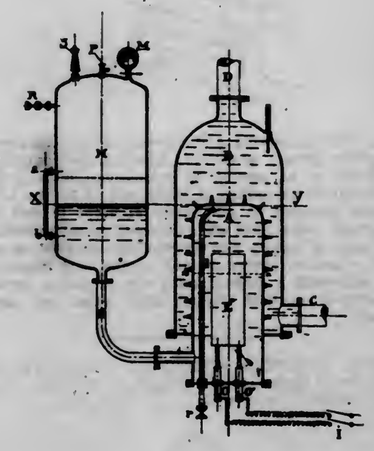
1,456,754. GAS BURNER. JAMES B. ANDERSON, Shaler Township, Allegheny County, Pa., assignor to Peoples Natural Gas Company, Pittsburgh, Pa., a Corporation of West Virginia. Filed July 14, 1922. Serial No. 575,103. 6 Claims. (Cl. 158—116.)

1. In a gas burner a burner body within which a stream of gas is caused to spread horizontally and radially from a center and as it spreads to flow in sinuous course, the burner body being provided with



orifices at the crests of the sinuosities in the stream of gas.

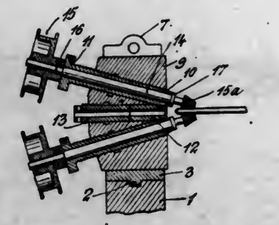
1,456,755. ELECTRICAL HEATING APPARATUS. PAUL BERGEON, Grenoble, France. Filed Oct. 6, 1921. Serial No. 505,866. 5 Claims. (Cl. 219—38.)



1. An electric heating apparatus for gases or liquids comprising: (a) a heating receiver containing the fluid liquid or gas to be heated, (b) a chamber surrounded by the heating receiver and containing electrodes dipping in water and connected with an electric circuit, (c) a compensating tank communicating with the electrode chamber and containing water the surface of which is exposed either to atmospheric pressure or to any pressure the variation of water level in the electrode chamber regulating the electric power according to the temperature of the fluid to be heated.

1,456,756. MILLING MACHINE. JOHAN ERIK BERGSTRÖM, Christiania, Norway, assignor to Gustaf Stahle, Stockholm, Sweden. Filed Jan. 24, 1921. Serial No. 439,669. 3 Claims. (Cl. 90—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a milling machine, an inclined support, a cylindrical frame adapted upon said inclined support, a turn-table cutter block resting in the said frame and angularly adjustable to any desired position, bearing



sleeves each arranged in the cutter block at an acute angle to the axis thereof and in the plane of the said axis, and cutter spindles mounted in said sleeves.

1,456,757. REVERSIBLE NECKTIE. HARRY BERKSON, Chicago, Ill. Filed Mar. 26, 1923. Serial No. 627,736. 3 Claims. (Cl. 2—82.)



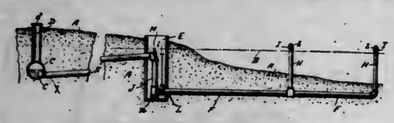
1. A bow tie comprising a loop, means for securing said loop to the collar of a wearer, and two flat bows set back to back and rotatably encircled by said loop whereby they may be reversed.

1,456,758. ARCH SUPPORT. ADOLPH BERNAT and ISAAC BERNAT, Kansas City, Mo. Filed Nov. 16, 1921. Serial No. 515,504. 1 Claim. (Cl. 36—71.)



An arch support comprising a flexible foot suporting member having an arched portion, a plate extending across said arched portion and adjacent to its ends attached to the under side of said member, and coil springs arranged in a longitudinal row and each removably mounted between said plate and said arched portion, substantially as set forth.

1,456,759. MEANS TO WITHDRAW SURFACE WATER FROM BATHING BEACHES AND RESORTS. SHELDON M. BOOTH, Chicago, Ill. Filed June 20, 1922. Serial No. 569,684. 2 Claims. (Cl. 210—11.)



1. A bathing beach installation comprising stand pipes provided with apertures adjacent to the upper ends thereof, pipes embedded in the bottom of the beach and communicating with said stand pipes, an additional stand pipe with which and near the lower end thereof said embedded pipes communicate, a gate arranged to control the flow of water into said last named stand pipe, and means to create an upward flow of water in said last named stand pipe and the discharge of water therefrom at the upper end thereof, all combined as set forth.

1,456,760. ELECTRIC SOLDERING IRON. FREDERICK W. BORTON, Miami, Fla. Filed Oct. 18, 1921. Serial No. 508,436. 1 Claim. (Cl. 219—28.)



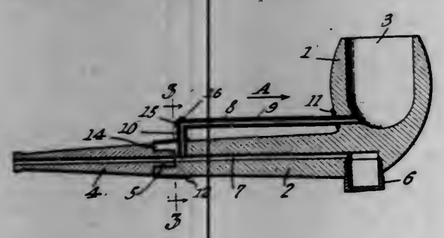
In an electric soldering iron a metallic housing, a tubular projection formed on said housing, a copper tip removably mounted on said projection, said housing being formed with a chamber adjacent said tip, a wooden handle secured to said housing, a metallic plate secured to the end of said handle, and adjusting rod disposed centrally of said tool and screw-threadedly engaging said plate, the end of said adjusting rod projecting into said chamber, a resistance element comprising a plurality of discs disposed within said chamber, said adjusting rod acting to regulate the pressure on said discs and an electric circuit for causing a current of electricity to pass through said resistance element, substantially as and for the purpose described.

1,456,761. HOSE COUPLING. ERIC BYLUND, Winnipeg, Manitoba, Canada. Filed Sept. 29, 1921. Serial No. 504,239. 4 Claims. (Cl. 285—129.)



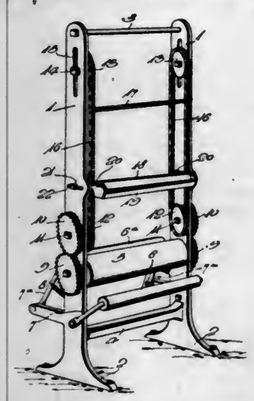
4. A hose coupling comprising a pair of coupling members; two hinge connected members of semi-cylindrical formation adapted to embrace the coupling members; means on the hinge-connected and coupling members interengageable when the hinge-connected members are closed around the coupling members; a grooved latch on one of the hinge-connected members; a rotatable bolt on the other hinge-connected member having a flat side and a rounded side, the flat side permitting the latch to pass under the bolt, and a lever rigidly secured to the bolt whereby the said bolt may be rotated to engage the rounded side of the bolt in the groove in the latch to lock the coupling.

1,456,762. PIPE. JOHN A. CHAMBERS, Newburg, Mo., assignor of one-half to James A. Clark, Newburg, Mo. Filed May 11, 1921. Serial No. 468,566. 3 Claims. (Cl. 131—12.)



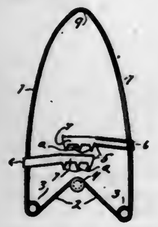
1. In a device of the class described, a pipe comprising a bowl and a stem, the stem having a bore; a receptacle detachably assembled with the pipe and communicating with the bore adjacent to the inner end of the bore; an external conduit including angularly disposed branches mounted respectively in the bowl and in the stem, one branch communicating with the interior of the bowl and the other branch communicating with the bore of the stem; and a closure member mounted in each branch and giving access to the other branch.

1,456,763. STRIP MARKING AND MEASURING MACHINE. FRANK J. CHAPMAN and JAMES F. BRENNAN, Paterson, N. J. Filed Nov. 13, 1922. Serial No. 600,664. 3 Claims. (Cl. 101—74.)



1. A strip measuring and marking device, comprising an upright frame, a roller journalled horizontally in said frame to be rotated by engagement with a strip of material to be marked, a lower pair of axially alined sprockets mounted on said frame adjacent to and having driving connections with the ends of said roller, an upper pair of axially alined sprockets mounted on said frame, a pair of chains trained around said upper and lower sprockets, a strip marking bar extending between and secured to said chains, and means for inking said bar.

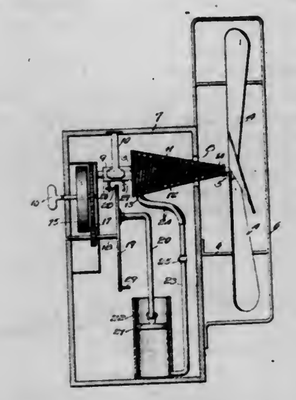
1,456,764. FUR-PELT STRETCHER. CHARLES B. CORBIN, Grand Rapids, Mich. Filed Mar. 25, 1922. Serial No. 546,651. 4 Claims. (Cl. 149—21.)



2. In an implement for stretching the pelts of fur bearing animals, a frame formed of spring metal wire in U form, the end of each arm of the frame coiled first at a short distance from the end, thence extending inwardly and relatively upwardly and again coiled and a rivet passed through the coils at the extreme ends pivotally connecting the ends, and sheet metal clips having one end bent U form and provided with holes therethrough to form two bearings upon each arm of the frame.

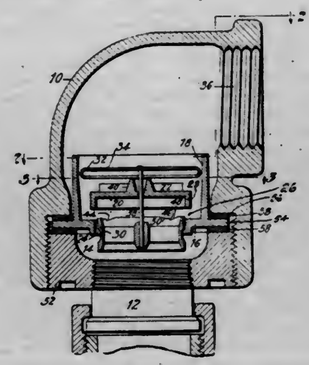
4. In combination with the elements covered in claim 2, one end of the clip made U formed and at a slight obtuse angle with the body of the clip and provided with a hole through each side of the U form, and in direct alinement, a loop formed at the other end of said clip, a second plate having a loop formed at one end to engage the first named plate and form an extensible member on said clip, the free end of said plate inclined relatively downwardly and having points thereon for engaging the ends of the pelts to be stretched.

1,456,765. FAN. FRANK L. CUPP, Chicago, Ill. Filed Aug. 15, 1921. Serial No. 492,325. 6 Claims. (Cl. 230—1.)



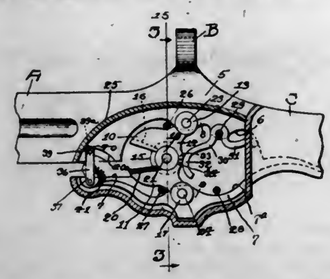
1. In combination, a spring motor, a fan, and pneumatic means operated by the motor for imparting rotation to the fan.

1,456,766. DEMAND-LIMITING DEVICE. JAMES P. FISHER, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,586. 16 Claims. (Cl. 50—10.)



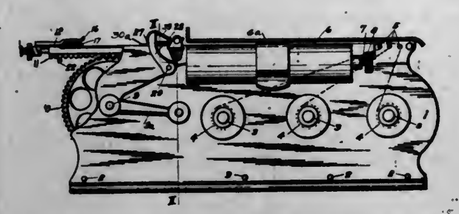
1. In a fluid demand limiting device, the combination of a valve casing, a valve in the said casing, a disk connected to said valve and mounted to be freely movable along the inner wall of the casing so as to permit a limited flow of fluid between the edges of the disk and the casing wall, and means for decreasing the pressure of fluid passing through the casing between the valve and the disk.

1,456,767. BAYONET WIRE CUTTER. PETER PAUL GRABOWSKY, Providence, R. I. Filed Nov. 27, 1920. Serial No. 426,706. 4 Claims. (Cl. 42—90.)



4. A wire cutter comprising an elongated yielding extension extending substantially in parallel relation thereto, the extension forming with an adjacent portion of the body member, a recess, a pair of jaw members pivotally connected to each other at one of their ends, said jaw members having shanks extending in opposite directions, the shank of one of said jaw members being pivoted to the body member in the recess, the shank of the remaining jaw member being pivoted to the extension, means carried by the body member and disposed within the compartment for normally holding the pivot of the jaws to one side of the aligned pivots of the shanks of the jaws, plates carried by the side portions of the body member and the extension and cooperating to provide a chamber, said plates having longitudinally extending slots coacting to provide a guide, the lower portion of said plates extending beneath the extension in spaced relation to the extension whereby said extension is capable of adjusting itself within the chamber according to the movement of the pivot of the jaws relative to the pivots of the extensions of the jaws.

1,456,768. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Dec. 7, 1916. Serial No. 135,600. 40 Claims. (Cl. 282—21.)



24. In an autographic register, in combination, mechanism adapted to simultaneously feed a plurality of superposed apertured webs, means adapted to adjust portions of said webs relative to each other comprising a controlling finger reciprocal across the paths of the webs adapted to enter the apertures in the superposed webs, and held against movement longitudinally of said paths, and an operating handle operatively connected to said feed mechanism and said adjusting mechanism.

1,456,769. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Dec. 30, 1916. Serial No. 139,809. 32 Claims. (Cl. 282—21.)

1. A device of the character described comprising, in combination, a support, means for feeding a web com-

prising a reciprocating member, means for reciprocating said member comprising a driving shaft, spaced driving arms on said shaft, arms connecting said recipro-



cating member to said driving arms, and a carriage having web roll supports movable into and out of said frame, between the planes of movement of said spaced arms.

1,456,770. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Feb. 5, 1917. Serial No. 146,681. 23 Claims. (Cl. 282—18.)



1. A device of the character described comprising, in combination, a support for a web, a member mounted on said support and fixed against longitudinal movement relative to the support for engaging a web to feed the same relative to the support, means to release the feeding means from engagement with the web to permit retrograde motion of the web, and means adapted to engage the web to limit the retrograde motion thereof when released and thereby retain a portion of the web in a predetermined position relative to the support.

1,456,771. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Apr. 17, 1917. Serial No. 162,704. Renewed July 23, 1920. Serial No. 398,541. 33 Claims. (Cl. 282—21.)

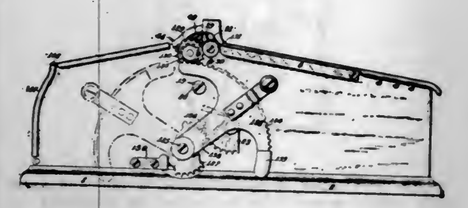


1. A device of the character described comprising, in combination, a web support, means for feeding webs a definite amount relative to the support, means for engaging the webs for adjusting the position of a portion thereof relative to the support, and means for projecting the engaging means into the path of the webs after the feeding is completed and for positively retaining the engaging means projected while setting the feeding means for the next feeding operation.

4. A device of the character described comprising, in combination, a web support, means for feeding webs a definite amount relative to the support, comprising a member for gripping and releasing the webs, means for engaging the webs for adjusting the position of a portion thereof relative to the support comprising pins adapted to enter perforations in the webs, and means for projecting the pins into the path of the webs while the gripping means releases the webs and for positively retaining the pins projected until the feeding means is ready for the next feeding operation.

29. In an autographic register, in combination, a reciprocatory gripper adapted to advance a web at intervals, a tearing bar separate from said gripper movable toward and from the web, and a web retaining finger adapted to be pressed against the web by movement of said tearing bar from the web, said finger being mounted on the register independently of said tearing bar.

1,456,772. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed Apr. 17, 1917, Serial No. 162,705. Renewed Nov. 1, 1922. Serial No. 598,435. 40 Claims. (Cl. 282—18.)



1. A device of the character described comprising in combination a support for a web, means for feeding a web a predetermined amount relative to said support including feed operating members adapted to pass out of engagement with each other after the web has been fed a predetermined amount, means for severing the web, reciprocatory aligning pins for adjusting the position of a portion of said web, and means for operating said severing and adjusting means including members adapted to pass into engagement with each other after a predetermined amount of feed.

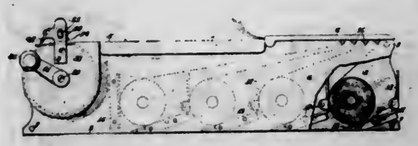
12. In an apparatus of the character described, in combination, a feed roller, an oscillatory operating member, devices whereby movement of said member rotates said roller including a gear operatively connected to said roller, a rack movable into and out of mesh with said gear, a stop tooth on said gear, and a stop stationary relative to said rack adapted to cooperate with said tooth to arrest rotation of said gear.

16. In an apparatus of the character described, in combination, a feed roller, a reciprocatory aligning finger adapted to enter apertures in the web, an oscillatory operating member, and devices whereby operation of said operating member rotates said roller and reciprocates said finger.

25. In an apparatus of the character described, in combination, a feed roller, a reciprocatory aligning finger adapted to enter apertures in the web, an oscillatory operating member, and devices whereby operation of said operating member rotates said roller and reciprocates said finger and relieves said web from the feed grip of said roller.

30. In an apparatus of the character described, in combination, a feed roller, a reciprocatory aligning finger, a web severing knife, an oscillatory operating member, and operative connections whereby said roller, finger and knife are actuated upon operation of said operating member.

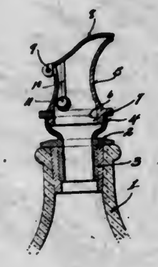
1,456,773. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed July 17, 1917. Serial No. 181,019. 35 Claims. (Cl. 282—21.)



20. In an autographic register, a feed roll, a yieldingly-pressed roll bearing against it for feeding duplicate strips of paper, a pair of pins on the feed roll adapted to engage aligning perforations in the paper, and means for lifting the tension roll off the feed roll during the engagement of the pins with said perforations.

22. In a friction-roller manifolder employing perforated form strips, a drive roll and a cooperative pressure roll for feeding said strips, means for relaxing the pressure between the rolls after feeding said strips a predetermined distance, and form adjusting means on said drive roll for engaging form perforations at the time of said pressure relaxation.

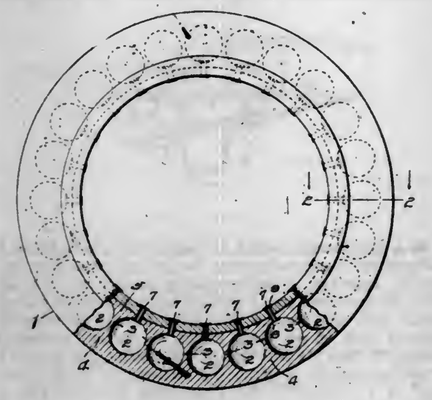
1,456,774. AUTOMATIC BOTTLE CLOSURE. CLARENCE HARRER, Port Washington, Wis. Filed Sept. 14, 1920. Serial No. 410,223. 1 Claim. (Cl. 215—63.)



A bottle closure comprising a hollow neck engaging portion having its upper end flared to form a comparatively wide mouth through which the bottle may be filled, a spout detachably connected to said flared end at the topmost portion of said flared end, an annular rib on said spout adapted to rest on the edge of said flared end, a cover for said spout, and gravity actuated means for automatically opening and closing said cover, said spout being increased in cross sectional area adjacent to said flared end to provide space for said gravity actuated means.

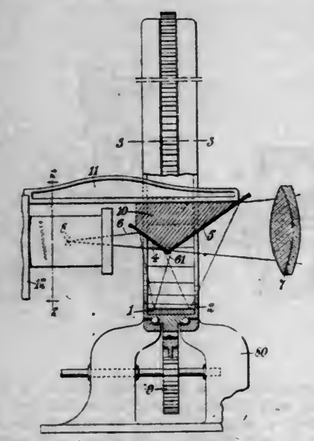
1,456,775. CUSHION PNEUMATIC TIRE. ALBERT J. HICKS, St. Louis, Mo. Filed June 5, 1919. Serial No. 301,979. 2 Claims. (Cl. 152—1.)

1. In a tire structure of the class described, a cushion body provided with spherical air chambers, said body being circular in cross section and the spherical air chambers therein being equally spaced apart by relatively thin walls, said spherical air chambers being of such relative location that the tread wall of the body is of relatively large thickness progressively narrowing until



the inner wall of the body becomes relatively thin, and said inner wall of the body being provided with a passage leading from each spherical air chamber.

1,456,776. CINEMATOGRAPHIC PROJECTION APPARATUS. KINGSLEY HIGGINSON, Kingston-on-Thames, England. Filed Jan. 6, 1921. Serial No. 435,356. 8 Claims. (Cl. 88—16.8.)



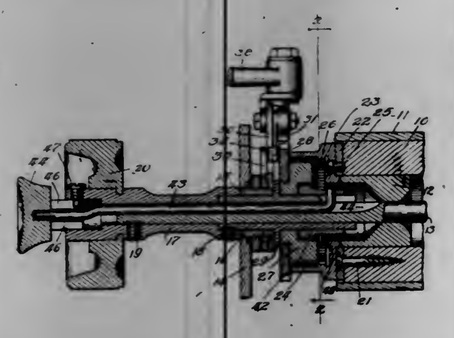
1. For use with a kinematograph projector wherein the film can be moved continuously through the gate, the combination with a plurality of mirrors each of trapezoidal form mounted side by side to form an annulus with each of the mutually inclined sides of a mirror adjacent to one of the mutually inclined sides of its neighbor, means to support the annulus in the path of a beam from the projector and so that the general plane of the annulus is transverse to the said beam and means to rotate the annulus about an axis that is transverse to the general plane thereof, of a reflector so disposed as to intercept the beam from the projector and so inclined as to throw it on to a mirror of the annulus to be reflected thereby and to form on the mirror an intersection of the beam that is trapezoidal and of the same size between the mutually inclined sides as that of the mirror between its mutually inclined sides.

1,456,777. METALLIC SIGNAL FOR LOCOMOTIVES. LORAN LEE HOFFMAN, Milwaukee, Wis. Filed Oct. 30, 1922. Serial No. 597,912. 2 Claims. (Cl. 116—30.)



2. A combination signal for locomotives, comprising a rectangular metallic housing having an open rear end and an open top, a stud extending through the housing near its open rear end, a pair of signal panels in pivotal union with the stud, a slit cover for the rectangular housing and off-set lamp casing, a bracket extending angularly from the rear wall of the housing and having a T-shaped portion, a strap for securement to the front wall of a locomotive, the strap being provided with a T-shaped aperture for receiving the T-shaped portion of said bracket, whereby the housing is supported.

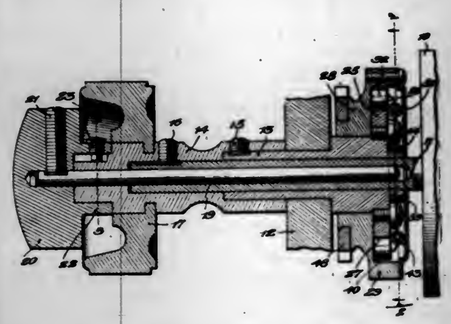
1,456,778. VARIABLE LINE SPACER FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Oct. 7, 1919. Serial No. 287,949. 7 Claims. (Cl. 197—123.)



1. In combination, a typewriter platen, a frame for supporting said platen, ratchet mechanism for operating said platen, a bushing carried by said frame, a sleeve journaled in said bushing, said sleeve and bushing constituting a pivotal support for said ratchet mechanism, a platen rod extending through said sleeve and removable therefrom for detachably holding said platen in operative position adjacent said ratchet mechanism and a clutch member slidably mounted on said sleeve for controlling said ratchet mechanism.

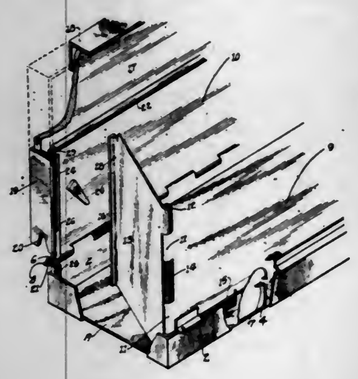
1,456,779. VARIABLE LINE SPACER FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Oct. 14, 1920. Serial No. 416,804. 12 Claims. (Cl. 197—123.)

1. The combination with a rotary platen, of a line spacing wheel loosely mounted thereon, a roller clutch for causing said wheel and platen to rotate in unison with one another, and means for rotating said platen having driving connection with said platen independent of said line spacing wheel and roller clutch, said means comprising a rotary member arranged to release said



clutch during an initial rotation and to rotate said platen during a continuation of the rotation of said member subsequent to the release of said clutch.

1,456,780. COMBINATION RUNNING BOARD, TABLE, AND CONTAINER. JAMES E. KERMODE, Vallejo, Calif. Filed Mar. 29, 1922. Serial No. 547,704. 5 Claims. (Cl. 280—164.)



2. The combination with the running board of an automobile, of an inner and an outer side section pivotally attached thereto to permit folding downwardly against the running board or vertical positioning of the same, a cover member carried by one of said side sections, and means permitting sliding and pivotal movement of said cover section with relation to the member carrying the same.

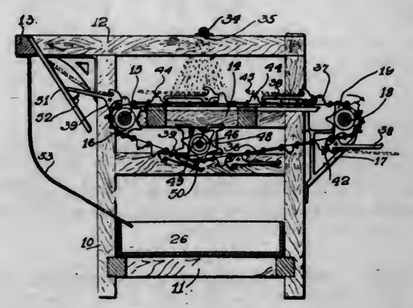
1,456,781. PROCESS OF RECOVERING CELLULOSE ACETATE FROM SOLUTIONS THEREOF. JOHANNES M. KESSLER, West Orange, and VIRGIL B. SEASE, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 14, 1919. Serial No. 297,167. 6 Claims. (Cl. 18—54.)

1. The process which comprises forcing a solution of cellulose acetate through small orifices into an ether to precipitate said cellulose acetate.

1,456,782. CELLULOSE-ESTER COMPOSITION. JOHANNES M. KESSLER, West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 26, 1919. Serial No. 340,930. 15 Claims. (Cl. 106—37.)

1. A composition comprising a cellulose ester and an acetin substantially free from monoacetin and containing from about 75 to 97% of triacetin and from about 25 to 3% of diacetin.

1,456,783. MACHINE FOR SPRAYING LEATHER. JOHN D. CHAPMAN, Richwood, W. Va. Filed Apr. 15, 1922. Serial No. 553,236. 10 Claims. (Cl. 149—19.)



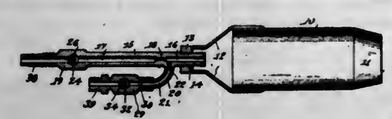
4. A machine of the character described comprising a supporting frame, a plurality of endless chains, a plurality of pairs of sprocket wheels upon which the chains are mounted, means for driving the sprocket wheels, a series of fingers pivoted at intervals upon each chain and extending in the same direction, means yieldingly holding the fingers in a position parallel to the chain and extending in a direction reverse to the direction of travel of the chain, a series of guides extending downward and forward from the top of the frame and between which guides said fingers pass as they move from the under flight of the chain to the upper flight thereof, each of said guides having pins extending upward therefrom to support the edge of the leather, and means for keeping all of said chains taut.

1,456,784. PROCESS OF TREATING ORES CONTAINING GALENA. NIELS C. CHRISTENSEN, Salt Lake City, Utah, assignor to The Consolidated Mining and Smelting Company of Canada, Limited, Montreal, Canada, a Corporation of Canada. Filed Sept. 30, 1919. Serial No. 327,401. 16 Claims. (Cl. 75—18.)

1. The process of treating ores containing galena which consists in treating said ores with a relatively concentrated salt solution containing ferric chloride, and thereby dissolving the lead as a chloride in said salt solution.

1,456,785. LIQUID AND GASEOUS FUEL BURNER. MAURICE COLLMAN, Akron, Colo., assignor of one-sixth to Harry Collman, Akron, Colo., one-sixth to Emmet P. Rogers, Denver, Colo., and one-half to the Investors Securities Company, Denver, Colo., a Corporation of Colorado. Filed Jan. 10, 1922. Serial No. 528,184. 2 Claims. (Cl. 158—73.)

1. A fuel burner comprising a tubular combustion chamber open at both ends, a fuel supply nozzle disposed rearwardly of one of the open ends of said chamber and spaced therefrom, means for adjustably connecting said nozzle with said chamber, a fluid supply element disposed in the same plane as the plane of the nozzle and further formed integral with the nozzle, said fluid supply element at its point of joinder with said nozzle provided with a restricted duct to increase the velocity of the supply of fluid to the nozzle, a curved branch pipe having one end formed integral with said nozzle forwardly of said duct and formed with a restricted outlet opening into said nozzle, and said



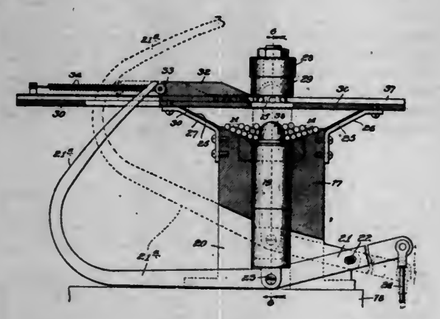
fluid supply element positioned in parallelism with respect to said fuel supply element, and opening into said pipe.

1,456,786. PEN OR PENCIL ATTACHMENT. FRANK DE LUCA, Bowdens, N. C. Filed Apr. 11, 1921, Serial No. 460,266. Renewed Mar. 22, 1923. 1 Claim. (Cl. 120—84.)



A device of the class described comprising a member having a central longitudinal elongated slot, a blade slidably guided for longitudinal movement in said member, a releasable catch carried by and movable with the blade within said slot and engageable within the enlarged portion of said slot to retain the blade retracted within said member and to retain said blade extended beyond one end of said member, said releasable catch comprising a spring pressed member normally urged away from the blade toward locking position, said spring pressed member comprising a push button having a reduced portion of slightly less diameter than the width of the major portion of said slot and an inner enlarged portion of greater diameter than the width of the major portion of said slot, the slot in said member being provided with enlarged openings communicating with the ends of said slot and of a diameter slightly greater than the diameter of the enlarged portion of the push button, and a lateral pin rigidly fixed to said blade and projecting outwardly through said slot, said push button being slidably mounted upon said pin.

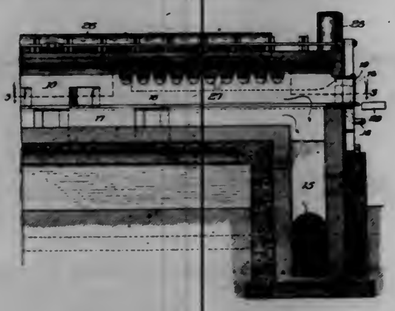
1,456,787. MACHINE FOR FILLING BALL RETAINERS. JOHN DLESK, Berwyn, Ill., assignor to U. S. Ball Bearing Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1920. Serial No. 396,241. 6 Claims. (Cl. 29—84.)



1. In a machine for filling ball retainers, a hopper for the balls, an integral plunger reciprocable vertically thru said hopper and adapted to be lowered beneath the balls

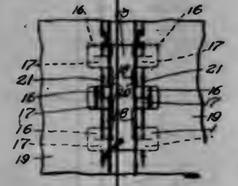
in the hopper, means on said plunger for holding a predetermined number of balls thereon and means for holding a ball retainer so that the balls held on the plunger will be forced by said plunger into the ball retainer on the next upward reciprocation thereof.

1,456,788. BILLET-HEATING FURNACE. NICOLAS F. EGLER, Chicago, Ill., assignor, by mesne assignments, to The Union Trust Company, trustee, Cleveland, Ohio. Filed Apr. 21, 1921. Serial No. 463,138. 7 Claims. (Cl. 263—15.)



1. A recuperative furnace comprising an elongated combustion chamber and pipes lying across said chamber through which air passes for preheating said air for the furnace.

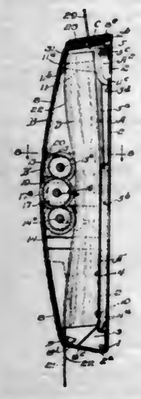
1,456,789. DRAPERY-SUPPORTING DEVICE. ERNEST R. FALKENBERG, Chicago, Ill. Filed Sept. 5, 1922. Serial No. 586,183. 8 Claims. (Cl. 156—21.)



5. Drapery supporting means comprising in combination, a member adapted to be enclosed by a pleat, a plurality of laterally offset portions upon said member to provide a series of vertically aligned and spaced apart openings whereby a pin may be passed through said openings and through a plurality of portions of the drapery protruding between pairs of said offset portions, a hanger adapted to be supported by a curtain pole, and a hook upon said hanger adapted to engage one of said offset portions to support a drapery secured thereto.

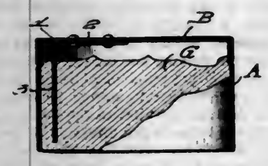
1,456,790. TOILET-PAPER CABINET. CHARLES FISHER, Chicago, Ill., assignor of one-third to Albert C. Grunwald and one-third to Carl E. Carlsen, both of Chicago, Ill. Filed Sept. 18, 1920. Serial No. 411,236. 6 Claims. (Cl. 211—8.)

2. In means of the character set forth, the combination of a rear casing-section equipped at its upper portion with immovable paper-supporting means and equipped also below said paper-supporting means with a spring-pressed follower, a closure having its lower end portion pivotally connected with the lower portion of said rear casing-section, means for releasably locking the closure in the closed position, and paper-feeding mechanism comprising gear-connected upper and lower feed-rolls mounted on the inner



side of the front wall of the closure, both of said feed-rolls bearing normally on a package of paper interposed between them and said follower.

1,456,791. ATTACHMENT FOR CAN CLOSURES. BENJAMIN BARTLY FOSTER, Renville, Minn. Filed May 4, 1922. Serial No. 558,371. 1 Claim. (Cl. 220—85.)



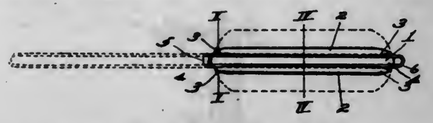
An attachment for can covers or the like comprising a strip of metal bent between its ends to provide right angularly disposed portions, one of said portions being intended to be connected to the underside of the cover so that the other portion extends at right angles from said cover, said last named portion constituting a spreader or paddle with which the lubricant can be spread or applied to the desired parts of machinery.

1,456,792. CONDUIT-OUTLET BOX. WILLIAM G. FRANKE, Detroit, Mich. Filed Dec. 15, 1919. Serial No. 344,983. 1 Claim. (Cl. 247—15.)



An outlet box comprising a stationary section having partially completed pipe sockets by which said section may be supported, a detachable section adapted to close the stationary section and complete the pipe sockets, said sections having connected confronting edges in a plane to one side of the central vertical plane of the box so that the stationary section of said box may be supported by pipes when the detachable section is removed, means independent of said pipe sockets and spaced therefrom connecting said sections, and an insulator anchored by an edge of the stationary section and into which insulator the edge of the detachable section may extend.

1,456,793. SPRING CLASP. ANNA S. FRIDOLPH, Kansas City, Mo. Filed Aug. 29, 1921. Serial No. 496,459. 2 Claims. (Cl. 132—41.)



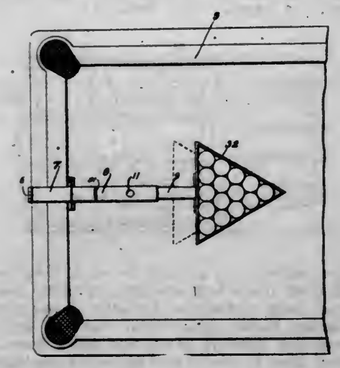
1. A spring clasp comprising a body-portion having parallel roll edges extending for substantially the full length of and overlapping and spaced from the body-portion, and a pin pivoted at one end to the body-portion; the pin and roll edges bearing a laterally-yielding and wedge relation at their opposite ends to insure engagement and disengagement respectively, when the pin is operated pivotally under sufficient power to close or open it.

1,456,794. PRINTING AND DUPLICATING. DAVID GESTETNER, London, England, assignor to D. Gestetner, Limited, London, England. Filed Dec. 9, 1919. Serial No. 343,662. 7 Claims. (Cl. 95—5.)



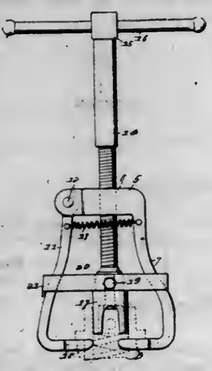
1. The process of forming stencils for use in duplicating, which comprises producing by the agency of light a photographic image of the matter to be reproduced and an image of a screen in superposition on a layer of composition which is rendered insoluble in a developer by the action of light and treating the layer of composition with a developer to remove the still soluble portions thereof.

1,456,795. REGISTER FOR POOL TABLES. PETER T. GRIFFIN, Van Zandt, Wash. Filed May 12, 1921. Serial No. 469,008. 1 Claim. (Cl. 235—71.)



In a registering device for pool tables comprising a support, a hollow body portion having a slot formed therein, a receptacle within the body portion and having a slot registering with the first mentioned slot, a tubular member positioned in one end of the body portion and carrying sprocket wheels, said body portion and tubular member having registering openings, indicating means operated by the sprocket wheels, and adapted to be viewed through the registering openings, a ratchet wheel associated with one of the sprockets, an operating rod carrying a finger adapted to cooperate with the ratchet wheel to rotate the same, upon movement of the tubular member within the body portion, and means for returning the tubular member to its inactive position.

1,456,796. CLUTCH-SPRING-COMPRESSING DEVICE FOR CHEVROLET AUTOMOBILES. ANTON F. GROSS, Aberdeen, Wash., assignor to Joe G. Batinovich, Aberdeen, Wash. Filed June 2, 1921. Serial No. 474,355. 2 Claims. (Cl. 29—87.1.)



1. In a clutch spring compression device for automobiles, a head having a rigid and a pivoted arm, each having an inturned end terminating in a jaw, one of which coacts with the other, a yoke, means for advancing the yoke with friction to the jaws of the arms, and means for holding the pivoted arm in operative relation to the rigid arm and the yoke.

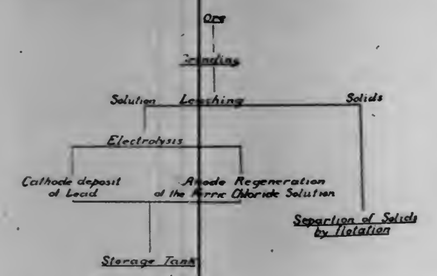
1,456,797. VACUUM BOTTLE. ALBERT GIBSON HALB, Fort Thomas, Ky. Filed June 20, 1921. Serial No. 478,876. 1 Claim. (Cl. 215—13.)



A device of the type described comprising a frangible container having a reduced neck, an inner metal casing cemented to said container, the neck of said casing being spaced from the neck of said container, a resilient washer disposed between the neck of said container and the neck of said casing, the neck of said casing being threaded, a coupling having a threaded portion adapted

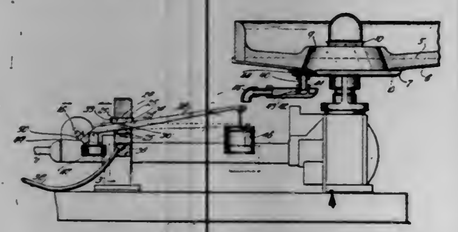
to be screwed onto the casing, said coupling being spaced from said casing at all other points, an outer casing secured to said coupling and being spaced from said inner casing at all points, and a cap screwed onto said coupling and being adapted to enclose the open end of said container.

1,456,798. PROCESS FOR THE EXTRACTION OF LEAD FROM SULPHIDE ORES. WILLIAM HENRY HANNAY, Trail, British Columbia, Canada, assignor to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a Corporation of Canada. Filed Apr. 30, 1920, Serial No. 377,752. Renewed July 22, 1921. Serial No. 486,806. 5 Claims. (Cl. 204—15.)



1. A process for the extraction of lead from sulphide ores, which consists of grinding the ore in a neutral liquid, leaching it with ferric chloride in the presence of sodium chloride to dissolve the lead sulphide, electrolyzing the solution to deposit the lead with simultaneous regeneration of the ferric chloride, and washing the residue to remove the chlorine therefrom.

1,456,799. OIL BURNER. FRANKLIN HARDINGE, Chicago, Ill., assignor to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 16, 1921. Serial No. 470,208. 3 Claims. (Cl. 158—36.)



2. The combination with an oil burner comprising a rotary atomizing nozzle and a motor for rotating said nozzle of a movably mounted member for actuating said switch to its open position, means for collecting unconsumed oil discharged from said atomizing nozzle, and means controlled by said collected oil and actuated by said motor for moving said member to actuate said switch to its open position.

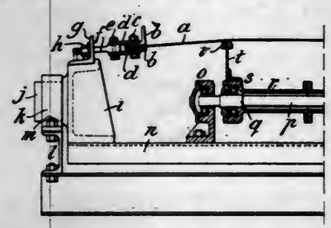
1,456,800. METALLIC CHAIR, STOOL, SEAT, AND THE LIKE. FREDERICK HAGGER HEADLEY, Northfield, England, assignor to Tan Sad Limited, Birmingham, England, a Corporation of Great Britain. Filed Jan. 28, 1921. Serial No. 440,705. 1 Claim. (Cl. 155—191.)

In metallic chairs, stools and the like of the type described, a plurality of tubular legs, transverse strip members, plugs telescopically arranged to coact with the upper ends of the tubular legs, rivet means countersunk in said strip means for securing said plugs to said strip



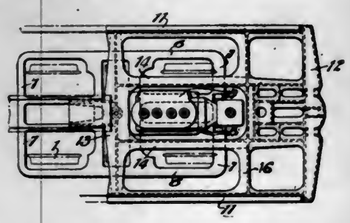
members, a frame resting upon said strip members, a sheet of material rigidly secured to said frame, and means for detachably securing said frame to said strip members.

1,456,801. SCREENING APPARATUS. HENRY PATRICK HOYLE, Durham, England. Filed July 26, 1922. Serial No. 577,741. 33 Claims. (Cl. 83—56.)



1. The combination of a screening surface with arms, bars on the arms extending across and engaging the screening surface and positive means for moving the arms an appreciable distance away from and towards the screening surface.

1,456,802. CAST-STEEL PLATFORM. HOWARD L. INGERSOLL, White Plains, N. Y., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed June 13, 1922. Serial No. 568,030. 2 Claims. (Cl. 105—34.)



1. In a railway car, a truck frame, a motor mounted on said truck frame and extending upwardly therefrom, and a car body underframe including a one-piece platform casting having longitudinal draft or center sills and transverse members above said truck frame spaced from each other to receive said motor between them, said sills and members being flanged to reinforce the casting about the opening provided for the motor.

1,456,803. DISH DRAINER. JOHN D. JUDKINS, San Diego, Calif. Filed Nov. 3, 1919. Serial No. 335,521. 1 Claim. (Cl. 141—11.)

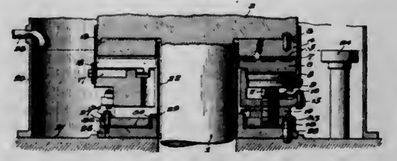
A dish drainer comprising a basket of woven wire having a front wall and end walls inclined outwardly

toward the top and having a bottom, the bottom and front wall being formed of relatively close longitudinal wires and transverse wires spaced substantially far apart forming relatively long, narrow mesh openings whereby the lower edges of the dishes, within the basket may



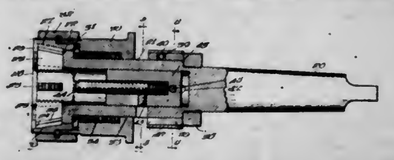
project therethrough, the rear edges of the end walls and bottom being arranged in substantially the same vertical plane, whereby said drainer may be hung against a substantially flat vertical surface, and the surface serve as a back for said drainer.

1,456,804. ELECTRICALLY-INSUALTED BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Jan. 19, 1920. Serial No. 352,364. 20 Claims. (Cl. 64,25.)



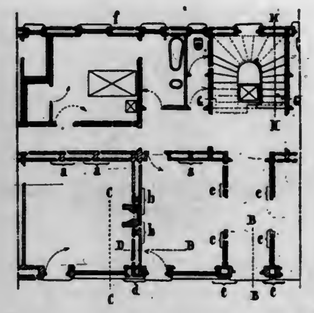
1. In a bearing for sustaining the end thrust of the shaft of an electrical apparatus, a bearing structure including a rotatable bearing member and a stationary bearing member, a frame for supporting said bearing structure, and electrical insulation interposed in said bearing structure between said bearing members and said frame.

1,456,805. DIE HEAD. VICTOR R. KOONTZ, Waynesboro, Pa., assignor to The Victor Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed June 9, 1921. Serial No. 476,277. 11 Claims. (Cl. 10—95.)



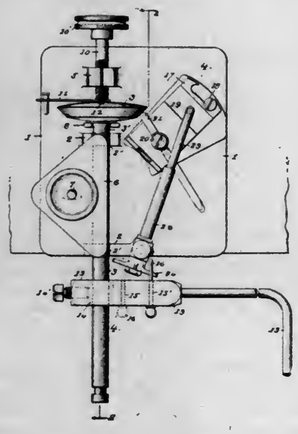
4. In a threading tool, the combination with a stock, of a plurality of cutters radially slidable in the outer end thereof and having inclined bearing portions, a tubular actuating member slidable longitudinally on the stock, and having inclined ways for the bearing portions and also having a socket in its rear end, a coiled spring within the actuating member and bearing against the same to urge it rearwardly, a rotary holding collar in rear of the actuating member and provided with a forwardly extending lug adapted to enter the recess and to abut against the member at one side of said recess, and means operated by the work being threaded, for automatically turning the holding collar.

1,456,806. MONOLITHIC BUILDING. CÉSAR JEAN MARIE LANCETTE, Paris, France. Filed May 21, 1920. Serial No. 383,164. 5 Claims. (Cl. 72—1.)



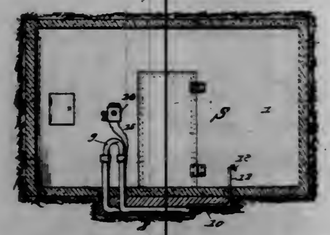
2. A monolithic building of one or more stories, comprising hollow vertical walls embodying pairs of spaced, reinforced concrete panels; horizontal girders of reinforced concrete to which said panels are secured at their upper and lower ends, each panel of each story of the building extending the entire height of that story; and horizontal beams disposed at intervals within the spaces between the panels to divide them into longitudinal cells.

1,456,807. VALVE-REFACING MACHINE. HANS G. LARSEN and WILLIAM C. REDFIELD, Chicago, Ill. Filed Oct. 12, 1921. Serial No. 507,373. 12 Claims. (Cl. 82—1.)



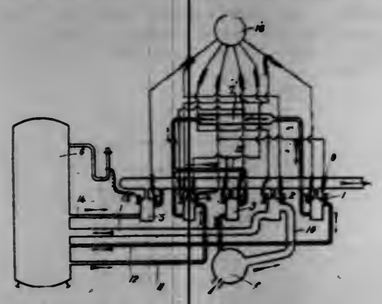
1. In a valve refacing machine, a frame, a saddle block formed with an angular channel, a confining plate in superimposed relation to said saddle block, means for adjusting said plate, a work adjusting spindle mounted on the frame in aligned relation to the channel of the saddle block, a resistance bar arranged in opposed relation to said adjusting spindle, resilient means for moving said bar in one direction, a slide rest carrying a cutting tool and having a sliding movement in an inclined direction on the frame, an operating hand crank, and means intermediate of said hand crank and the slide rest for imparting an intermittent feed to said slide rest with each revolution of the hand crank.

1,456,808. SAFETY STATION FOR SUBTERRANEOUS PASSAGEWAYS. GEORGE M. LOWE, Bowen, Colo. Filed Sept. 7, 1921. Serial No. 498,955. 1 Claim. (Cl. 262—34.)



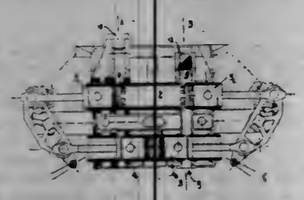
A safety station for a subterraneous passageway including a chamber formed within a wall of said passageway and an entranceway leading from said chamber to the passageway, means for closing the entranceway, an induction line for air discharging within the chamber, an air eduction line in communication with the chamber, and a removable coupling engageable within the chamber with the induction and education lines for connecting said lines to permit a direct flow from the induction to the education line.

1,456,809. PROCESS FOR TREATING WOOD. GUSTAVE FRANTZ LYON, Paris, France. Filed Feb. 15, 1921. Serial No. 445,193. 3 Claims. (Cl. 99—12.)



1. A process for the methodical drying of wood by the treatment thereof in a chamber characterized by first subjecting the wood to a slightly reduced atmospheric pressure and then treating the wood with dry ozonized air for a suitable period of time.

1,456,810. LOCOMOTIVE. ACHILLE MACCHIONI and ENRICO HOCKE, Genoa, Italy. Filed May 24, 1921. Serial No. 472,304. 2 Claims. (Cl. 105—62.)



1. A locomotive fitted with an internal combustion engine with horizontal cylinders, characterised by the fact that the engine consists of one or several couples of cylinders; two cylinders of each couple having parallel and distinct axes and each cylinder having two pistons moving in opposite directions, and by the fact that the pistons placed on the same side of the two cylinders forming a couple are connected together by a member, one for each side, the said member compelling the pistons to move in opposite directions.

1,456,811. AUTOMATIC FIREARM. ULDARIQUE AUGUSTE MARGA, Dieghem, Brussels, Belgium. Filed Mar. 21, 1921. Serial No. 454,129. 1 Claim. (Cl. 42—4.)



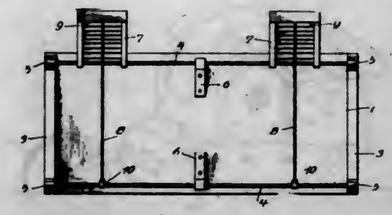
In an automatic firearm, a breech-block movable rearwardly by the recoil, a barrel movable rearwardly with said breech when bolted to the latter, a catch carried by said barrel, a firing pin having sliding movement in the breech-block, a bolt member mounted in said breech-block and adapted to engage said catch to lock said barrel and breech-block together, said bolt being actuated to locking position by said firing pin upon firing movement of the latter, and means for causing a partial rotation of said barrel to thereby disengage said catch from said bolt when said breech-block has completed a portion only of its recoil movement.

1,456,812. BUILDING ELEMENT. JAKOB MELLES, Brieg, Germany. Filed May 17, 1922. Serial No. 561,767. 3 Claims. (Cl. 72—110.)



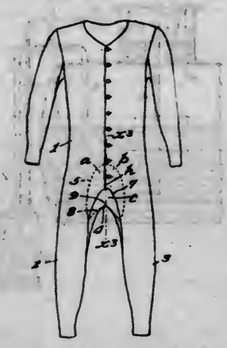
1. A building element comprising a lower member consisting of a plane trellis work plate formed of longitudinal and cross wires, an intermediate member consisting of a trellis work plate formed of several parallel longitudinal wires bent zig zag and of several straight cross wires, an upper member consisting of a wood beam, parallel transverse rows of vertical partitions on the lower surface of said upper member spaced in accordance with the parallel rows of upper apexes of said longitudinal wires of the intermediate member slits being formed between the partitions of each row at distances which correspond with the distances between the apexes of one row of upper apexes of the parallel longitudinal wires of said intermediate member, said apexes being inserted into said slits, and transverse pins inserted below the apexes of the bent longitudinal wires of the intermediate member and supported by said partitions.

1,456,813. PRUNING LADDER. SYLVESTER J. MITCHELL, ALFRED D. GABBERT, and JOHN W. BLATTER, Grand Junction, Colo. Filed Mar. 21, 1922. Serial No. 545,498. 1 Claim. (Cl. 228—1.)



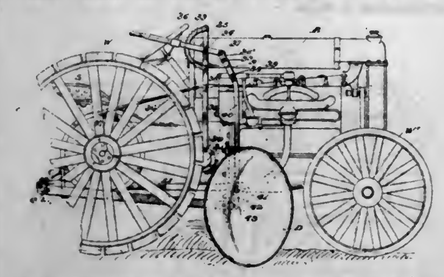
A pruning ladder comprising a portable, flat, rectangular base adapted to be mounted on a wagon body, transverse beams at opposite ends thereof, longitudinally disposed rods carried by said beams along opposite sides of the base and in spaced relation thereabove, a ladder pivoted at its lower end on one of said rods and foldable over said base with its upper end adapted to be supported on the other of said rods, the length of said ladder equalling the width of the base, said ladder being slidable on its rod longitudinally of the base, a sleeve rotatably and slidably disposed on the opposite rod, and a guy wire connected at one end to said sleeve and at the opposite end to an upper rung of the ladder, whereby said ladder, wire, and sleeve may be moved longitudinally of the base and maintained in raised position, the length of said wire being such as to dispose said ladder when raised inclined outwardly of the base.

1,456,814. UNDERGARMENT. ZOLA B. MOORE, Los Angeles, Calif. Filed Oct. 23, 1918. Serial No. 259,440. 2 Claims. (Cl. 2—144.)



1. An undergarment for men comprising a body having legs united by a permanently closed-crotch and having an open-front and an opening in rear; a reinforcing patch fastened to the garment and extending upwardly on the front of said garment from about the level of the crotch and the middle thereof to a considerable distance above the crotch and the lower edge of said open-front and a short distance at each side of the middle of said open-front, and downwardly on the inside of the legs of said garment and over the usual crotch seam, and one side of said downwardly extending portions terminating at the lower edge of the rear opening; and said reinforcements being adapted to receive the wear and strain occasioned by the central male organ substantially as set forth.

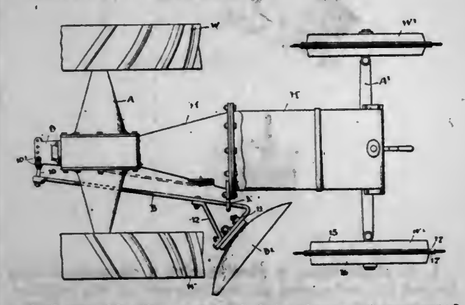
1,456,815. PLOW ATTACHMENT FOR TRACTORS. BENJAMIN W. MORTON, Williston, Fla. Filed Dec. 31, 1921. Serial No. 526,262. 11 Claims. (Cl. 97—47.)



3. In combination with a tractor, a bar pivotally connected to the tractor and extending forwardly with relation to said tractor, a plow carried at the forward end of the bar and disposed to operate forward to a drive wheel of said tractor, and means carried by the tractor adapted to cooperate with said bar to maintain the plow in its operative position.

8. In combination with a tractor, a bar having its one end pivotally connected to said tractor and extending forwardly with relation thereto, a disk plow rotatably supported at the forward end of said bar and disposed to press inwardly upon the last named end of the bar when brought into operation, and means carried by the body of the tractor adapted to serve as a stop against the inward pressure of the disk plow and also serve to permit upward or downward movement of said disk plow.

1,456,816. WHEELED TRACTOR. BENJAMIN W. MORTON, Williston, Fla. Filed Feb. 25, 1922. Serial No. 539,251. 6 Claims. (Cl. 97—47.)



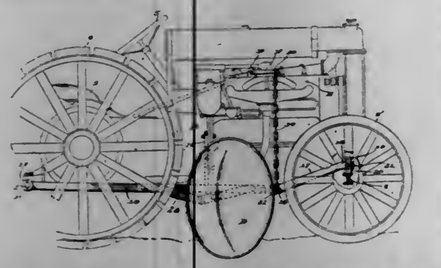
1. In combination, a wheeled tractor, a plow carried thereby and disposed in alignment with a wheel of the tractor and adapted to operate at the rear of said wheel, and means carried by said wheel to sever the earth over which the same passes.

6. In combination, a wheeled tractor, a push bar pivotally secured at the rear end of said tractor and extending forwardly with relation thereto, a disk plow rotatably supported at the forward end of said push bar, and said disk plow being adapted to operate at the rear of the associated front wheel of said tractor, and at an angle to the longitudinal axis of the tractor, and means carried by said front wheel of the tractor adapted to sever the earth over which said wheel passes.

1,456,817. PLOW ATTACHMENT FOR TRACTORS. BENJAMIN W. MORTON, Williston, Fla. Filed Feb. 25, 1922. Serial No. 539,252. 11 Claims. (Cl. 97—47.)

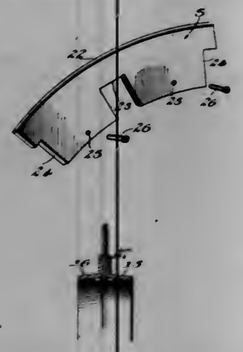
1. In combination with a tractor, a bar extending longitudinally thereof, means for pivotally securing the

rear end of said bar to the tractor and the forward end of said bar being adapted to rest upon the front axle of the tractor, and a plow carried by said bar at a point intermediate it ends.



4. In combination, a tractor, a bar extending longitudinally thereof, means for pivotally securing one end of said bar to the tractor for vertical swinging movement of said bar and the forward end of the bar adapted to rest upon a stationary part of said tractor, and a plow supported intermediate the ends of said bar.

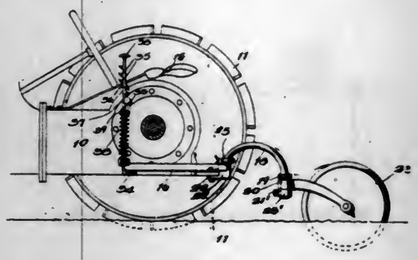
1,456,818. WHEELED TRACTOR. BENJAMIN WHITFIELD MORTON, Williston, Fla. Original application filed Feb. 25, 1922, Serial No. 539,251. Divided and this application filed Sept. 29, 1922. Serial No. 591,381. 5 Claims. (Cl. 97—209.)



1. In combination, a wheel having a circumferentially divided rim and spokes secured between the rim portions, a cutter blade section comprising a plate member having its outer edge bevelled to form a cutting edge, said plate member being adapted to be positioned between the rim portions of said wheel and having its inner edge formed with recesses adapted to receive the outer ends of the associated spokes of said wheel, whereby to hold the cutter blade section against inner movement or circumferential movement with respect to the wheel, and means for holding the cutter blade section against outer movement with respect to the wheel.

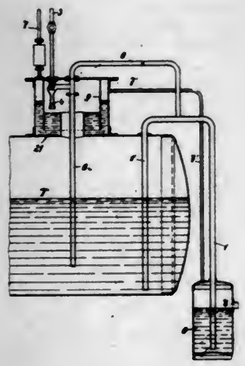
1,456,819. COLTER ATTACHMENT FOR TRACTORS. BENJAMIN W. MORTON, Williston, Fla. Filed Dec. 4, 1922. Serial No. 604,949. 7 Claims. (Cl. 97—47.)

1. In combination, a tractor, a lever bar having an intermediate offset portion and a rear arcuate shaped portion, a colter pivotally connected to the rear end of said lever bar, means whereby the offset portion of said lever bar may be fulcrumed upon the rear end of a tractor, and means associated with the forward end of said lever bar whereby the upward and downward movements of said colter may be controlled.



6. In combination, a tractor, a bar fulcrumed upon the rear end of the tractor for swinging movement in a vertical plane arranged longitudinally of the tractor, a colter carried by the rear end of the bar, and means whereby the forward end of the bar may be locked against downward movement and thereby to impose the weight of the tractor upon the colter whereby to insure that the colter will penetrate the earth over which said tractor passes a predetermined degree.

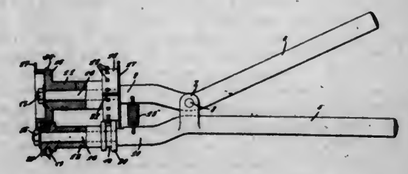
1,456,820. CONVEYANCE OF HIGHLY-INFLAMMABLE LIQUIDS. JOSEF MUCHKA, Vienna, Austria. Filed Jan. 6, 1921. Serial No. 435,555. 5 Claims. (Cl. 221—67.)



1. Apparatus for drawing off highly inflammable liquids from a storage vessel in which the liquid is stored under protective gas, comprising in combination with a tapping vessel and a siphon for drawing off the liquid from the storage vessel into the tapping vessel, a jet pump for starting and stopping the action of the siphon, and capable of being operated by means of a protective gas of the same kind as that contained in the storage vessel above the liquid.

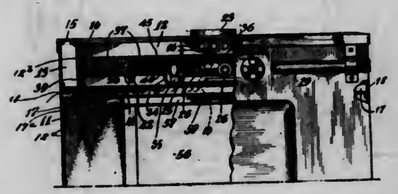
1,456,821. FILM-GUIDING DEVICE. GEORGE W. NOYES, Billings, Mont. Filed Sept. 15, 1920. Serial No. 410,363. 2 Claims. (Cl. 154—42.)

1. In a device of the character described, a pair of pivotally connected arms, said arms including handle portions, a roller carried at one end of each arm, said rollers adapted to cooperate to clamp a film therebetween,



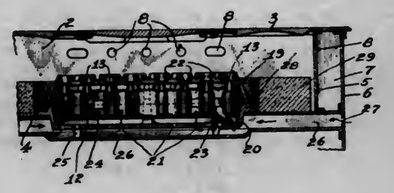
one of said rollers having teeth to engage within openings of a moving picture film, and means for normally urging the rollers towards each other.

1,456,822. GAS RANGE. HENRY W. O'DOWD, Jersey City, N. J., assignor to William M. Crane Company, a Corporation of New York. Filed June 6, 1921. Serial No. 475,182. 18 Claims. (Cl. 126—39.)



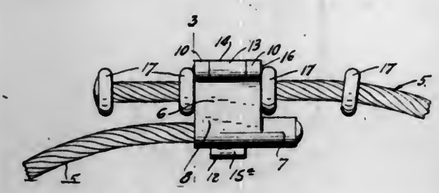
1. A gas-range including a combustion chamber presenting apertured side and end walls, a closed top covering said chamber, a flue surrounding the chamber walls and in communication with said chamber through the apertures of its side and end walls, a central burner, and a bed of heat-radiating material arranged between the burner and flue and adapted to disseminate the heat from said burner uniformly in all directions.

1,456,823. GAS RANGE. HENRY W. O'DOWD, Jersey City, N. J., assignor to William M. Crane Company, a Corporation of New York. Filed Aug. 24, 1921. Serial No. 495,077. 17 Claims. (Cl. 126—39.)



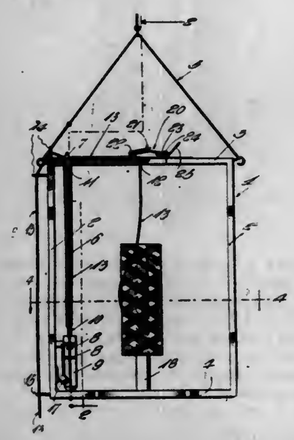
1. A gas-range including, in combination, a combustion chamber, a closed top therefor, a flue surrounding said chamber and communicating therewith, a Bunsen burner, and a member formed with secondary air discharge opening leading into the combustion chamber and through which the burner flames project, the said member being constructed to exclude secondary air from the combustion chamber except through said discharge openings.

1,456,824. FASTENING DEVICE FOR CABLES. ADOLPH W. OLSON, McIntosh, Minn. Filed June 19, 1922. Serial No. 569,222. 4 Claims. (Cl. 24—115.)



4. In combination with a flexible member, a clamp carried by one end of said member, stop members carried by the opposite end of the flexible member in spaced relation to each other, said clamp being arranged to receive and clamp the second mentioned end portion of the cable, said stop members preventing movement of the second mentioned end portion of the cable in either direction from its clamped position between the jaws.

1,456,825. COMBINED ADVERTISING DEVICE AND TWINE HOLDER. JOSEPH LAWRENCE ORR, Lexington, N. C. Filed July 21, 1921. Serial No. 486,561. 3 Claims. (Cl. 242—141.)

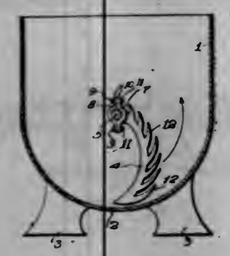


1. A twine holder comprising a substantially rectangular vertically disposed open-ended frame work, means for carrying a bundle of twine thereon, a pair of vertically disposed wires extending between the top and bottom of said frame, a weight, eyes upon opposite sides of said weight and adapted to slidably pass up and down on said wires, an arm carried by said weight, a signal carried by said frame work and disposed adjacent the vertical pathway of the weight, and means whereby the weight will be raised and lowered upon withdrawal of twine from the frame and the signal operated.

1,456,826. CORN MIXER AND SILK REMOVER. JOHN J. PEAHOTZKI, Baltimore, Md. Filed Sept. 25, 1922. Serial No. 590,376. 4 Claims. (Cl. 130—9.)

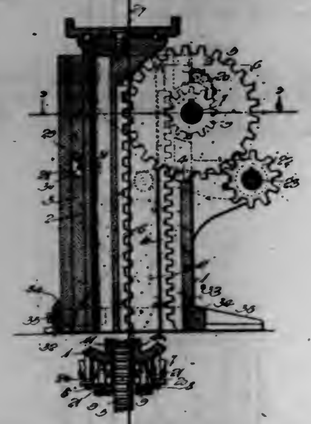
1. In a corn mixer and silk remover, a receptacle adapt-

ed to contain a mass of material to be mixed and arms rotatably mounted therein, having fingers to enter and



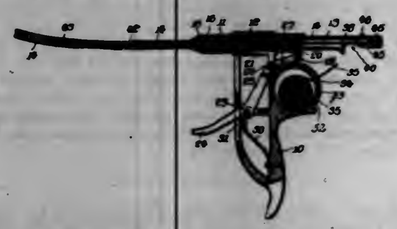
stir the mixture and rise therefrom to thereby lift the silk from the mass.

1,456,827. LIFTING JACK. CHARLES S. PILLSBURY and LIGH S. SIMS, Pulaski, Va. Filed Aug. 1, 1921. Serial No. 488,887. 13 Claims. (Cl. 254—97.)



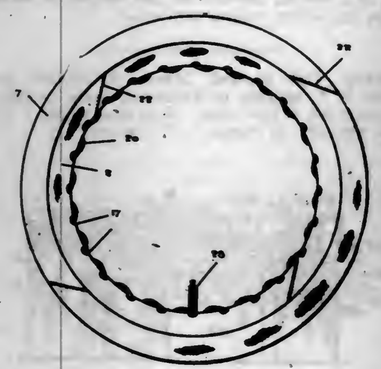
1. A jack comprising a standard, hoisting members slidably supported on said standard, said members being equipped with rack bars, a shaft rotatably mounted on the standard, pinions mounted on said shaft and having their teeth engaged with the teeth of said rack bars, one of said pinions being larger than the other, whereby to simultaneously elevate the hoisting members at relatively different speeds.

1,456,828. GAUZE-PACKING DEVICE. ERNEST M. PISTOR, Dundee, Ill., assignor of one-half to August T. Pistor, Oak Park, Ill. Filed Mar. 17, 1922. Serial No. 544,517. 5 Claims. (Cl. 128—263.)



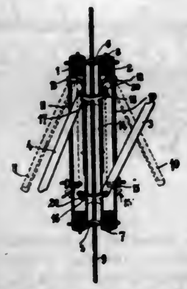
1. A gauze-packer of the character described comprising in combination a handle adapted to be gripped substantially in the palm of a hand of the operator, a relatively long gauze tube open at its forward end carried by said handle, said tube having an opening adjacent to the handle for the admission of a strip of gauze thereinto, a gauze feeder extending longitudinally within said tube, said feeder having means for engaging a strip of gauze to feed it forward within said tube and out of the forward end thereof with a step-by-step movement, and means for moving the feeder longitudinally with a reciprocating motion, said means including a lever operable by a part of the hand gripping said handle when the device is normally in use.

1,456,829. TIRE PROTECTOR. CLARENCE RATELLE, Los Angeles, Calif. Filed Aug. 24, 1922. Serial No. 584,029. 3 Claims. (Cl. 152—18.)



3. A protector for the inner tube of a pneumatic tire comprising a plurality of strips cut on the bias with the threads or strands extending obliquely, the strip at one edge of the protector having a double fold between its edges providing a double portion and a flap behind said portion and projecting beyond said portion to be overlapped by the opposite edge portion of the protector, securing elements engaged through said doubled portion, the doubled portions of the first named strip being secured together inwardly of said securing elements, and securing elements engaged through the last named edge portion of the protector.

1,456,830. PROCESS AND APPARATUS FOR PERMANENT UNDULATION OF HAIR. PIERRE FRANÇOIS MARIE ROBLIN, St. Nazaire, France. Filed Sept. 11, 1922. Serial No. 587,439. 3 Claims. (Cl. 132—36.)

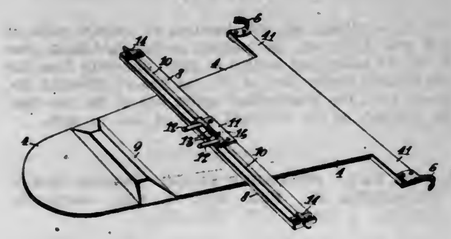


3. Apparatus for permanent undulation of the hair, a plurality of bars in the same disposed parallel to one another, means to distance the same from their common axis, and to move the same toward this axis, gutterlike members, articulated to cover closely said bars when in their closed position knifelike members between said bars and articulated to permit access to the space intermediate to the bars when said knife-like members are in open position, means to fix said gutterlike members and said knife like members in their closed position adjacent to the said bars, an axial member to guide the said bars and the said members and means to axially adjust the same.

1,456,831. PROCESS FOR THE COMMERCIAL PREPARATION OF POTASSIUM PHOSPHATE. WILLIAM H. ROSS and WILLIAM HAZEN, Washington, D. C. Filed Dec. 20, 1922. Serial No. 608,072. 8 Claims. (Cl. 23—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A process for the preparation of a concentrated material containing two of the three essential constituents of fertilisers which consists in treating potassium chloride with an excess of concentrated phosphoric acid, heating the solution to drive off hydrochloric acid, diluting with water, cooling, and separating the crystallized salts from the mother liquor.

1,456,832. COMBINED FOLLOWER AND IRONING BOARD. HENRY W. ROUNTREE, Richmond, Va., assignor to H. W. Rountree & Brother Trunk & Bag Company, Incorporated, Richmond, Va. Filed Mar. 6, 1922. Serial No. 541,453. 2 Claims. (Cl. 190—13.)



1. As a new article, a combined follower and ironing board device for wardrobe trunks provided with clothes hanger members at the upper edge of the clothes compartment and having a set of drawers in another compartment, the said device comprising a tapering board having lateral extensions at the upper end, a hook fitted to each of the said ends for fitting over the clothes hanger members to support the device as a follower, a cross strip attached to the board body whose ends extend practically the full width of the clothes compartment and the full width of the trunk drawers, the said strip constituting a follower portion when the device is adjusted as a clothes presser and operating as an abutment strip for engaging the outer top edge of a drawn out trunk drawer when the upper or wider end of the device is inserted into the partly drawn out drawer and projected under the next top drawer to bear against the bottom thereof when the device is sustained on the trunk drawers to serve as an ironing board.

1,456,833. APPARATUS FOR TURNING DEEP-WELL BITS WHEN BEING SHARPENED. JAMES G. SCHOOLEY and HENRY M. RANSDELL, Tulsa, Okla. Filed Aug. 31, 1921. Serial No. 497,189. 1 Claim. (Cl. 78—101.)

A pulley, comprising in combination, a U-shaped supporting member, a shaft journaled between the terminals of said supporting member, said shaft having one end extended and a squared portion occurring intermediate the terminals, a sheave fitted upon said squared portion of the shaft and having a peripheral groove adapted to receive links of a chain and hold the same against sliding movement thereon, a collar upon the extended end of the shaft and adapted to hold the same against longitudinal movement in one direction, a cotter pin carried upon the other end of the shaft adapted to hold



the same against movement in the opposite direction, and a bar secured upon the extended end of the shaft extending transversely thereof whereby said sheave may be rotated.

1,456,834. ART OF PRINTING. JOSEPH HENRY SHEFFIELD, Chicago, Ill. Filed Apr. 10, 1916. Serial No. 90,240. 3 Claims. (Cl. 283—46.)

The BODY *THAT* the BOYS HAD DISCOVERED WAS DRAGGED ashore AND SHE SAID *that she identified* the remains *which* SHE COULD still RECOGNIZE by the clothes *although* THEY HAD LAIN long in the water AND WERE much DECOMPOSED.

1. The improved method of visually indicating the structure and meaning of a sentence that consists in printing in type of different kinds words and groups of words that comprise syntactic elements of the sentence, the different kinds of type serving to show the relationship that the elements, as component parts of the sentence, bear to one another.

1,456,835. GRATE CONSTRUCTION. CHARLES AUGUSTUS SHIVELY, Hoquiam, Wash. Filed Sept. 25, 1920. Serial No. 412,663. 6 Claims. (Cl. 126—167.)



2. In a grate construction, a bearing bar consisting of a body portion having a head at one end thereof and a relatively reduced neck portion disposed between the body portion and the head, said body portion being formed with opposite side members, thereof parallel, with an elongated opening therethrough extending between the parallel side members, and with an integral longitudinal rib projecting vertically from the upper and lower surface of each side member, the head being adapted to form a supporting surface for one end of the bar.

1,456,836. BAG FOLDING AND SEALING DEVICE. VINCENT SLEZAK, Chicago, Ill., assignor of one-half to Nicholas E. Ford, Chicago, Ill. Filed Nov. 21, 1921. Serial No. 516,788. 14 Claims. (Cl. 226—56.)

1. In a bag-folding machine, the combination of means for carrying a bag with the edge portion to be folded in proximity to a forming member having an inclined recess therein substantially circular in cross view and opening toward the bag as it passes along said forming member, means for conducting into said recess the edge

of the bag to be folded, means for holding the bag in contact with the former as the bag travels thereagainst, the inclined recess being so arranged that as the bag



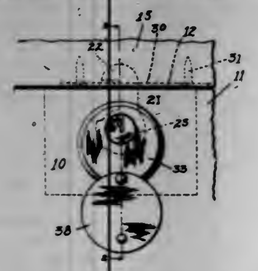
normally travels forward, more and more of the bag edge to be folded enters the recess and is rolled tubularly therein, and means for pressing flat the tubularly-shaped portion of the bag.

1,456,837. APPARATUS FOR CHARGING OR DISCHARGING FURNACES. MARTIN VAN MARLE, Lower Gornal, England. Filed June 16, 1921. Serial No. 478,123. 4 Claims. (Cl. 214—26.)



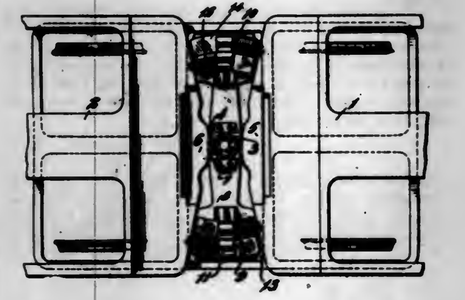
1. Apparatus for feeding goods into or removing goods from furnaces, comprising an undercarriage, an upper travelling carriage movably mounted thereon, said upper carriage including a supporting element and an independent goods carrying element resting thereon, inclined blocks on one of said elements having each an inclined face and a substantially horizontal face, abutments on the other of said elements, means carried by said undercarriage for moving said upper travelling carriage as a whole with respect to the undercarriage and means carried by said upper travelling carriage for moving one of said elements with respect to the other of said elements irrespective of movement of the undercarriage, whereby said inclined blocks co-act with said abutments to alter the level of the goods carrying element.

1,456,838. LOCK. HENRY G. VOIGHT, New Britain, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed July 17, 1918. Serial No. 245,383. 13 Claims. (Cl. 70—46.)



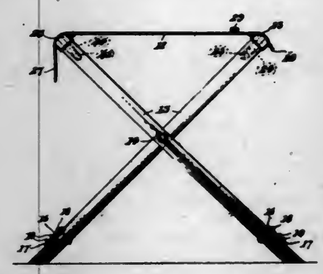
1. Locking mechanism, comprising a latch casing having a spring operated latch bolt pivotally mounted therein, a cylinder lock having a key-barrel rotatable therein, said key-barrel provided with a projection extending therefrom into operative engagement with said latch bolt to retract the same, the engagement between said projection and latch bolt constructed to permit said latch bolt to be swung about its pivotal mounting without rotating said key-barrel.

1,456,839. ARTICULATED CAR. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Jan. 5, 1923. Serial No. 610,873. 12 Claims. (Cl. 105—4.)



3. In a railway car, side bearings at opposite sides of each end of the car, the bearings at the right-hand sides of the car ends being located at equal distances from the longitudinal center line of the car but at different distances from the longitudinal center line of the car than the bearings at the left-hand sides of the car ends.

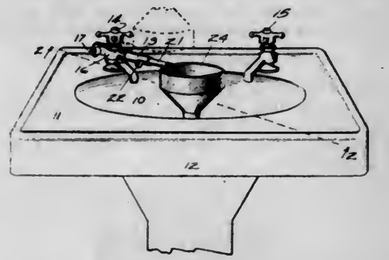
1,456,840. FOLDABLE STOOL. STEPHEN ZSIKAY, Philadelphia, Pa. Filed Sept. 22, 1921. Serial No. 502,383. 1 Claim. (Cl. 155—150.)



A camp stool comprising a pair of leg members each including a pair of substantially centrally pivotally connected rails, rigid spacing connections adapted to detachably connect the lower ends of the leg members when set up for use in parallel arrangement, the rigid spacing connections each comprising a hook-shaped member pivotally secured adjacent the lower end of one of said rails forming a part of one of said legs and adapted to engage spaced loops carried by one of said rails forming a part of the oppositely disposed leg, the upper ends of said rails having axially arranged sockets, spring thimbles positioned in said sockets and having slotted and contracted inner ends providing arcuate ripping jaws, a flexible seat member, a transverse cleat carried at each end of the seat member, posts fixed to and perpendicularly projecting from the opposite ends of the cleats, said posts having heads at their free ends and

adapted for removable positioning within said thimbles when the device is set up for use with the heads retainingly engaged by said jaws, straps carried adjacent one end of said flexible seat, buckles carried adjacent the opposite end of said seat and adapted for engaging the said straps for holding the device in folded arrangement, and a loop carried by the said flexible seat for providing a handle for the folded camp stool.

1,456,841. MOUTH WASHBASIN ATTACHMENT. ERIC FORBS BROWN, Buxton, Iowa. Filed Sept. 5, 1922. Serial No. 586,085. 1 Claim. (Cl. 4—1.)

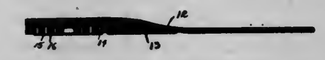


In a device of the class described in combination with a lavatory having a faucet thereon, a funnel shaped basin arranged to be received in the lavatory, means for supporting said basin, said means including a yoke member mounted on the faucet, a telescoping arm pivotally secured to said yoke member at one end and to the basin at the other end so that the basin may be swung on a pivot to position where it will not be received within the lavatory, said yoke being provided with a pair of resilient clip members for retaining the arm in one of its positions.

1,456,842. PROCESS OF MANUFACTURING WATERPROOF ADHESIVES. SAMUEL BUTTERMAN, Chicago, Ill., and CHARLES K. COOPERRIDER, Albuquerque, N. Mex., dedicated, by mesne assignments, to the people of the United States for their free use and enjoyment. Filed May 2, 1922. Serial No. 557,966. 7 Claims. (Cl. 87—17.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A composition of matter comprising casein, lime, silicate of soda, cupric chloride and water.

1,456,843. INSOLE FOR SHOES OR THE LIKE. LAWRENCE E. CLARK, Des Moines, Iowa. Filed July 25, 1921. Serial No. 487,286. 1 Claim. (Cl. 36—37.)



An insole for shoes of substantially the outline of a shoe comprising a strip of tough material, divided into two portions, a heel portion and a sole portion and a resilient strip of material of substantially the same outline as said heel portion secured to the underside of said strip of tough material, said resilient strip of material having a plurality of oval shaped grooves therein, said oval shaped grooves being spaced one within the other and being substantially the shape of an inverted U in cross section, the material between each of the said last grooves being provided with comparatively shallow grooves for causing narrow beads to be formed on the edges of said first groove, the parts being so arranged that the material between said grooves will be spread out and forced into said grooves when under pressure, thus giving a cushioning effect to any sudden pressure applied upon the heel portion of said insole all for the purposes stated.

1,456,844. POULTRY-PLUCKING DEVICE. NAOMI ISNOR DE BIE, West Medford, Mass. Filed Feb. 12, 1921. Serial No. 444,327. 4 Claims. (Cl. 7—11.)



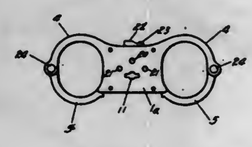
2. In combination, a handle comprising spaced side pieces, a pair of elongate members interposed between said side pieces, rivets for securing said members and pieces in assembled relation, and integral extensions of said elongate members projecting from the end of the handle, said extensions being normally spaced apart and constituting a pair of tweezer blades.

1,456,845. FRAME MAKING. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed July 16, 1921. Serial No. 485,320. 3 Claims. (Cl. 29—148.)



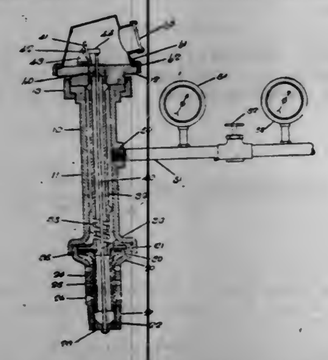
1. The process of forming channeled sheet metal frames consisting in forming a flat sheet metal blank, channelling the central portion of said blank longitudinally, bending the channelled member at an angle and simultaneously drawing the same, and thereafter rolling the corners to form a completed member with sharp corners.

1,456,846. THUMB LOCK. ARTHUR GAMWELL, Los Angeles, Calif. Filed May 2, 1922. Serial No. 557,990. 2 Claims. (Cl. 70—24.)



1. A thumb lock of the class described, comprising a body portion in combination with a set of extended arms positioned on each end thereof, a pair of swinging fingers adapted to be positioned between the said extended arms, toothed latches adapted to engage with the said swinging fingers, a dog adapted to hold the said latches in a locked position, a releasing means adapted to disengage the said dog from the toothed latches and the said toothed latches from the swinging fingers, as set forth.

1,456,847. ENGINE INDICATOR. HARVEY D. GRYMS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 23, 1921. Serial No. 454,746. 6 Claims. (Cl. 234—21.)

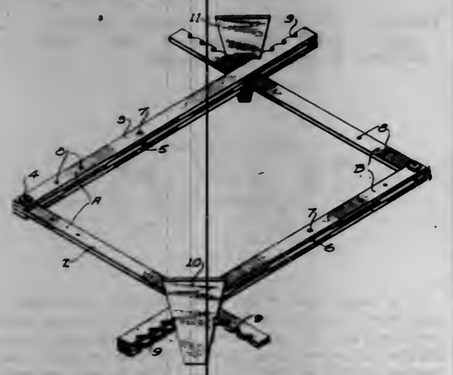


1. In a pressure element for optical engine indicators, means responsive directly to pressures within an engine cylinder; means adapted to exert a variable opposing pressure against the pressure responsive means; and means for indicating the opposing pressure.

1,456,848. PROCESS FOR PURIFYING ANTHRACENE PRESS CAKE. HARRY D. GIBBS, San Francisco, Calif., dedicated, by mesne assignment, to the people of the United States. Filed Feb. 8, 1919. Serial No. 275,904. 5 Claims. (Cl. 260—168.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

3. A process of treating anthracene press-cake, which comprises heating the same with an alkali to convert the carbazol present into a salt, then heating further to a temperature sufficient to fractionally sublime anthracene and other materials, and collecting such sublimed materials.

1,456,849. ADJUSTABLE FORM CLAMP. GEORGE E. GREENWOOD, San Francisco, Calif., assignor of one-third to Horace M. Woolley, Jr., Alameda, Calif., and one-third to Fred N. Vedder, San Francisco, Calif. Filed May 10, 1922. Serial No. 559,808. 6 Claims. (Cl. 144—291.)

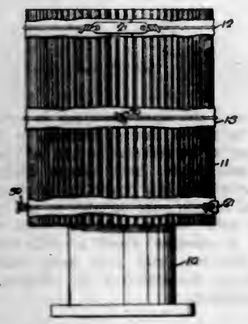


1. In a clamp of the character described pivotally connected arms, and teeth formed in the outer ends of the arms, said teeth having their side walls disposed on an angle of 45° with relation to the longitudinal axis of the arms, and the bottom of said teeth being square and disposed at an angle of 90° with relation to the sides of the teeth.

1,456,850. PROCESS FOR PREPARING A CONCENTRATED FERTILIZER. WILLIAM HAZEN and WILLIAM H. ROSS, Washington, D. C. Filed Dec. 20, 1922. Serial No. 608,073. 13 Claims. (Cl. 71—7.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

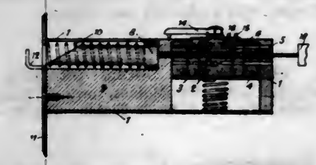
1. A process for the preparation of a concentrated material containing the three essential constituents of fertilizers which consists in treating potassium chloride with an excess of concentrated phosphoric acid, heating the solution to drive off hydrochloric acid, diluting with water, neutralizing the excess of acid with ammonia, and separating the precipitated salts from the mother liquor.

1,456,851. BINDING ELEMENT. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 6, 1921. Serial No. 435,417. 5 Claims. (Cl. 204—64.)



1. A means for binding together assemblies of elements for treatment in induction furnaces, comprising a plurality of pieces of conducting material attached together by means of electrically insulating material.

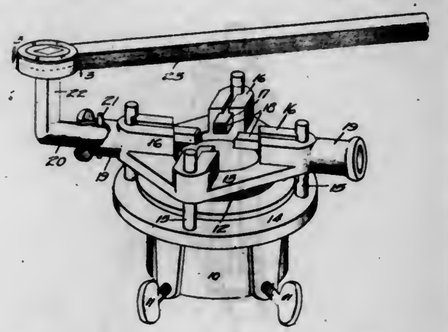
1,456,852. SAFETY LOCKING DEVICE. WILHELMUS KOOT, Utrecht, Netherlands. Filed Aug. 11, 1921. Serial No. 491,360. 6 Claims. (Cl. 70—53.)



1. A permutation lock having a plurality of rotatable concentric cylinders having a plurality of radial dummy perforations therein and extending only partially therethrough, each of said cylinders having a perforation extending entirely therethrough, said last named perforations angularly inclined to the radial perforations and adapted to be brought into alignment in a common plane.

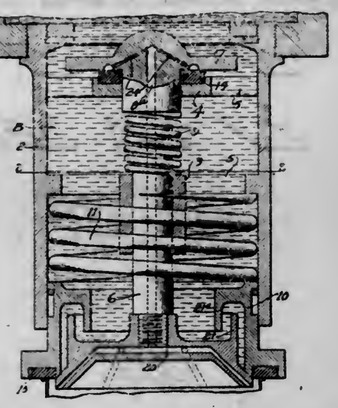
1,456,853. ATTACHMENT FOR PIPE-THREADING MACHINES. HARRY LYNCH, Des Moines, Iowa. Filed Dec. 22, 1921. Serial No. 524,153. 2 Claims. (Cl. 10—123.)

1. The combination of a pipe cutting device, having a rotatable die head provided with a lateral extending tubular member, an attachment therefor having a portion non-rotatably mounted in said tubular member and an extension projecting away from and beyond the pipe



threading device in a line substantially parallel with the axis of the pipe threading device, said extension being angular in outline, and a ratchet wrench mounted on said extension.

1,456,854. FILLING VALVE. THURMAN MCGHEE and PETER WOODHEAD, Hayward, Calif. Filed Sept. 29, 1920. Serial No. 413,514. 7 Claims. (Cl. 226—124.)



1. A valve of the character described, comprising a liquid receptacle having a liquid inlet opening at the upper end and a liquid discharge opening at the lower end, a liquid sealing member surrounding the discharge end and maintaining the discharge end partially submerged, a venting member extending below the discharge end and also communicating with the upper and interior end of the receptacle, and means for opening and closing the upper end of the venting member and for closing the inlet of the receptacle when the vent is closed.

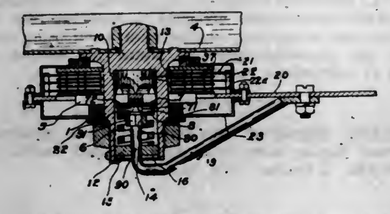
1,456,855. METHOD OF JOINING METALS. THOMAS MIDGLEY, Jr., Dayton, Ohio, assignor, by mesne assignments, to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 30, 1919. Serial No. 307,640. 8 Claims. (Cl. 22—204.)

1. The method of casting iron around a metal which is a good conductor of heat, which comprises preheating said metal within the mold before the casting operation to establish a low temperature differential between the



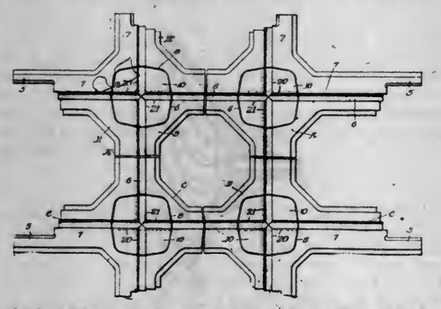
good conducting metal and the casting metal, and substantially maintaining the low temperature differential during the casting operation.

1,456,856. VARIABLE ACTION SHOCK ABSORBER. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed May 23, 1922. Serial No. 562,967. 4 Claims. (Cl. 267—9.)



2. In a shock absorber, in combination, a hub adapted to be connected to a vehicle part and axially bored at one end, and having transverse bores intersecting the axial bore, two complemental series of friction plates, one series being fixed to said hub and the other being oscillatable relative to the first series, an arm fixed to the second series and adapted to be secured to a second vehicle part, a spider projecting through said transverse bores and bearing upon said friction plates, a spring in said axial bore operable to press said plates into frictional engagement, and cam members within said bore between the spring and spider, and relatively oscillatable with the hub and arm, respectively, thereby to increase the pressure between said plates.

1,456,857. RAILROAD CROSSING WITH RENEWABLE CENTERS. WESLEY G. NICHOLS, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 10, 1921. Serial No. 499,762. 5 Claims. (Cl. 246—460.)



1. A railway crossing member constructed with trackage directed toward a point of intersection and having around such point, a center-piece cavity, providing a bottom support, and in said cavity and resting on said bottom support, an insert piece carrying upon its upper surface the intersecting portions of the trackage, and

upon its lower side a central supporting foot beneath the said intersecting portions, sustaining walls radiating from said foot and perimeter walls joining said radial walls; all of said walls, and said foot being extended downwardly to and resting upon the bottom support.

1,456,858. APPARATUS FOR MIXING DRY MATERIALS. THOMAS OTWAY PARTRIDGE, North Sydney, New South Wales, Australia. Filed Dec. 16, 1922. Serial No. 607,446. 2 Claims. (Cl. 83—73.)



1. An apparatus for mixing dry materials comprising a series of conveyor belts arranged to discharge from one to the other in rotation, each successive belt being wider than the preceding one, and means for driving the belts at successively reduced speeds.

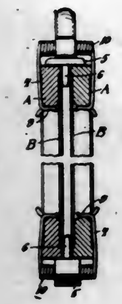
1,456,859. BOUQUET HOLDER. GEORGIA ROBINSON, Grand Rapids, Mich. Filed Sept. 11, 1922. Serial No. 587,499. 2 Claims. (Cl. 24—5.)

1. In a combined bodice shield and bouquet holder, a broad flat shield of water proof material and a water proof sack connected therewith and extending downwardly therefrom.

1,456,860. EARTHWORKING DEVICE. WILLIAM TURNER, East Chicago, Ind. Filed Apr. 27, 1921. Serial No. 464,885. 3 Claims. (Cl. 97—212.)

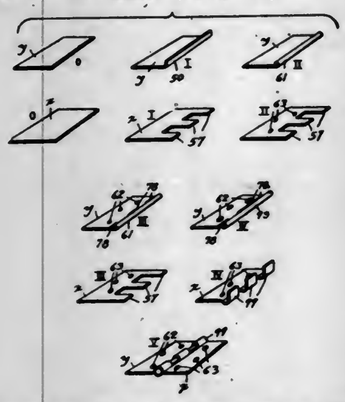
3. An earth working device for rotary plows comprising a hub member having a plurality of radially extending seats formed therein, and a plurality of flat curved cutting elements having their inner ends secured in said seats, the said seats being inclined longitudinally and transversely.

1,456,861. HOLDER FOR CANVAS STRETCHER FRAMES. OSCAR ANDERSON, East Gloucester, Mass. Filed Mar. 19, 1920. Serial No. 367,134. 3 Claims. (Cl. 224—45.)



1. A holder of the kind described, comprising a base, a spacer mounted thereon, a spring support journaled in said base, and a pair of spaced arms carried by said support and having engaging means at their free ends.

1,456,862. PRODUCTION OF HINGES AND OTHER LIKE ARTICULATED ARTICLES. GEORGE WILLIAM BERRY, Wakefield, England, assignor to Berry Hinge Limited, London, England. Filed Jan. 7, 1921. Serial No. 435,652. 10 Claims. (Cl. 29—11.)

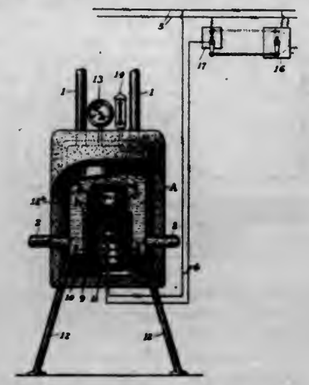


1. The method of producing hinges and like articulated articles consisting in providing a pair of flat blanks, bending one blank along one edge and slotting said blank in a succession of stages, and simultaneously therewith forming extensions on the other blank destined to provide bulbs and engaging tha same in the slots in the rear of the bent portion of the first blank and finally turning such extensions over the bent portion of the first blank to assemble the two blanks.

1,456,863. ELECTRO-HEAT-RADIATING DEVICE FOR WATER-HEATING SYSTEMS. THOMAS J. BLONG, St. Louis, Mo. Filed Feb. 14, 1921. Serial No. 444,771. 7 Claims. (Cl. 219—38.)

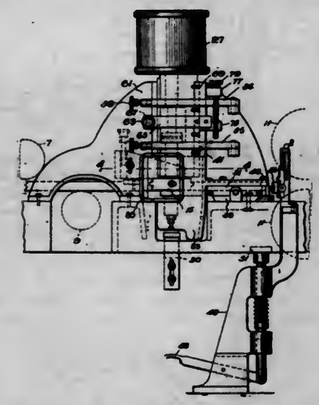
1. A heating system, comprising heat radiating devices through which a heating medium circulates, a heating apparatus comprising a water container connected by supply and return pipes with said heat radiating devices, a heating device in said container consisting of a closed shell immersed in the water in said container, an electric

heating element in said shell, and a plurality of baffles arranged in concentric relation with said shell in such a



manner that they co-operate with said shell and with each other to form heating zones through which the water circulates in its passage through said container.

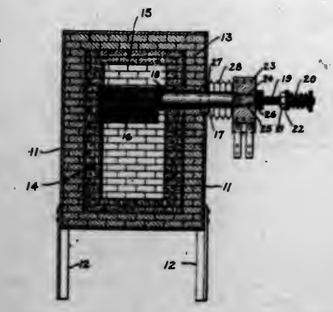
1,456,864. SIDE-HEAD CONSTRUCTION FOR MATCHERS AND THE LIKE. CHARLES W. H. BLOOD, Winthrop, and CARL G. OSTEMAN, Boston, Mass., assignors to S. A. Woods Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed July 7, 1920. Serial No. 394,450. 15 Claims. (Cl. 144—90.)



1. A matcher or like machine comprising the usual horizontal bed, opposed rotary tools operating substantially in the plane of said bed and rotary motors directly coupled thereto and disposed respectively above and below the plane, the former having a pivotal mounting remote from the tool providing an inward position in which the tool is adapted to operate on work passing over the bed and adapted to be swung outwardly through a wide arc to an inoperative position wherein the tool is distant from the bed of the machine and of convenient access.

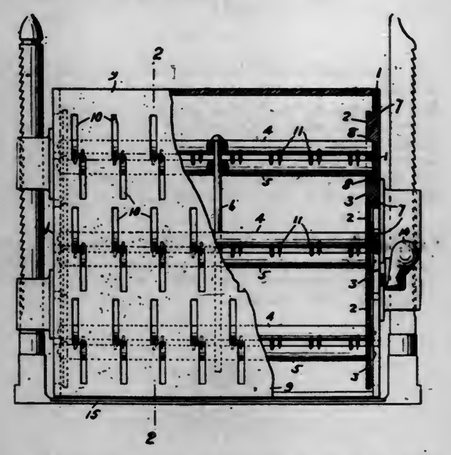
1,456,865. TERMINAL FOR ELECTRIC FURNACES. PORTER H. BRACE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1921. Serial No. 463,366. 1 Claim. (Cl. 204—64.)

In an electric-resistance furnace, the combination with a movable electrode and a stationary water-cooled collar surrounding said electrode, of a movable water-cooled terminal secured to one end of said electrode and an expansible metal tubular member secured to said collar and



said terminal for preventing the escape of a heated fluid leaking past said collar and for equalizing the temperatures of said collar and said terminal.

1,456,866. MEAT HOLDER. WILLIAM F. H. BRAUN, Philadelphia, Pa. Filed May 1, 1922. Serial No. 557,554. 1 Claim. (Cl. 17—14.)

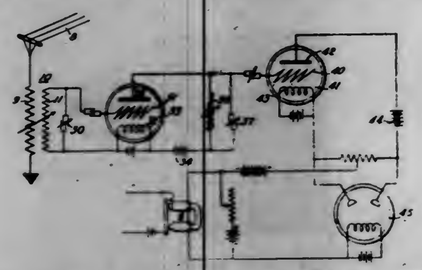


In a meat holder the combination of gears revoluble about their centers, rods eccentrically connected with the faces of the gears, means for preventing rotation of the rods about their own axes, curved skewers rigid with the rods, and a slotted surface with which the curved skewers co-operate by motion of translation to pull the meat against the surface.

1,456,867. APPARATUS FOR THE RECEIPT OF WIRELESS IMPULSES. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,314. 8 Claims. (Cl. 250—12.)

1. In a system for the wireless control of electrical apparatus, the combination with a source of electrical energy in proximity to said apparatus, of a hot-cathode tube connected therebetween, the voltage impressed upon said tube by said source being slightly below the critical voltage thereof, receiving means for the transmitted control impulses, said receiving means impressing said im-

pulses upon said source to produce transient voltage increments thereof, said tube operating above its critical voltage during the passage of said increments and per-



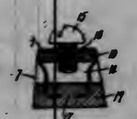
mitting largely increased flow of current to said apparatus, and means for shunting the relatively slight current tending to flow through said apparatus therearound in the absence of said voltage increments.

1,456,868. PROCESS OF MAKING METAL CASTINGS. DOMINICK CORDINO, Plymouth, Mass. Filed Oct. 18, 1921. Serial No. 508,512. 5 Claims. (Cl. 22—203.)



1. The hereinbefore described process of casting metals, consisting of incorporating into the mold a chaplet adapted to receive a screw threaded hole in the top, and having a core in the upper portion of the chaplet and a space below the core with an opening into said space, and then pouring the metal into the mold and filling said space and closing said opening with the molten metal and causing the chaplet to form an integral part of the casting.

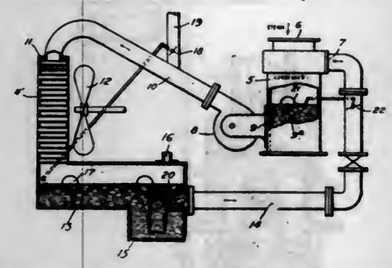
1,456,869. METAL CASTING AND PROCESS OF MAKING METAL CASTINGS. DOMINICK CORDINO, Plymouth, Mass. Filed Aug. 14, 1922. Serial No. 581,836. 3 Claims. (Cl. 22—203.)



1. The hereinbefore described process of casting metals consisting of forming a mold having a chaplet incorporated therein, said chaplet having openings on two sides, and having its upper portion filled with a core, and having a chamber located beneath the core, said mold being formed so as to permit one of said openings to be closed and the other to be partially closed with the molten metal, then pouring the molten metal into said mold and thereby filling said chamber and closing one of said openings and partially closing the other, whereby the casting is provided with a chamber closed at the bottom and with a side opening near the top adapted to receive a screw threaded nut.

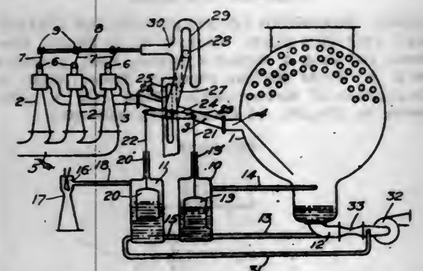
1,456,870. CONDENSING APPARATUS. RAYMOND N. EBERHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 19, 1917. Serial No. 192,197. 11 Claims. (Cl. 257—25.)

1. A condensing apparatus comprising a condenser, means for receiving and cooling the fluids withdrawn from the condenser, means for storing said fluids, means for delivering cooled fluid from the storing means to the condenser, and liquid-level responsive means for



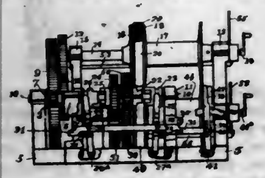
maintaining the distribution of fluids throughout the apparatus so as to prevent any part of the apparatus from being robbed of fluid by another.

1,456,871. CONDENSER APPARATUS. RAYMOND N. EBERHART, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 8, 1918. Serial No. 261,707. 19 Claims. (Cl. 257—2.)



1. Condensing apparatus comprising in combination a condenser, means for extracting air from the condenser, and means for controlling the air extracting means, responsive to variations in excess of pressure within the condenser over the vapor pressure of the condensate.

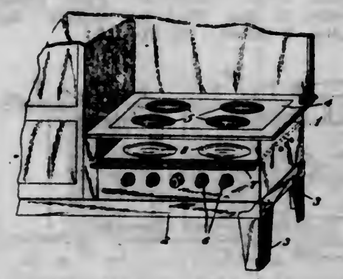
1,456,872. TWO-SPEED, POWER STUMP PULLER. KNUTE EVERTZ, Bellingham, Wash. Filed July 21, 1921. Serial No. 486,322. 1 Claim. (Cl. 254—185.)



In a stump puller in combination, a stump puller frame, a prime mover-shaft mounted for revolution on said frame, a countershaft mounted for revolution on said frame parallel with said prime-mover shaft, positive gear connections between said prime-mover shaft and said countershaft, a puller-drum shaft mounted for revolution on said frame parallel with said countershaft, a large and a small spur gear mounted fixed on said puller-drum shaft, a small and a large spur gear respectively engaged with said large and small fixed spur gears mounted for revolution on said countershaft independently, a positive clutch mounted on said countershaft for reciprocation on a spline engageable with said loose,

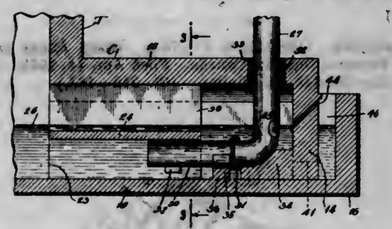
small, countershaft gear, a positive clutch mounted on said countershaft for reciprocation on a spline engageable with said loose, large, countershaft gear, a pair of levers pivoted on said frame each engaged with one of said positive clutches adapted to permit its revolution and cause it to reciprocate on said countershaft when said lever vibrates on its pivot, a shifting bar having an upper edge of parallel lines connected by two inclined surfaces, also having two notches in its upper edge each engageable with a pin in one of said pivoted levers when said bar is in its upper position and having a lower edge parallel with said upper edge, mounted between two lower and two upper rolls, two lower and two upper rolls mounted on said frame adapted to alternately raise and lower the ends of said bar when it is reciprocated, and a hand lever pivoted on said frame and engaged with said shifting bar adapted to reciprocate the same.

1,456,873. ALUMINUM DIRT TRAY AND REFLECTOR. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed July 19, 1920. Serial No. 397,291. 5 Claims. (Cl. 219—35.)



1. An electrical stove comprising an electrical heating element and a substantially concave aluminum heat reflector therefor.

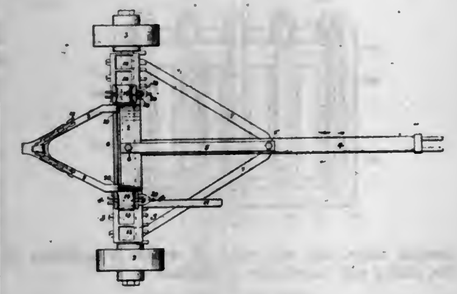
1,456,874. METHOD OF AND APPARATUS FOR CONCENTRATING LIQUIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed June 26, 1922. Serial No. 570,996. 17 Claims. (Cl. 23—1.)



1. The method of concentrating liquids which consists in injecting hot gases into a body of the liquid below the level thereof and in constraining the said hot gases to move in contact with the liquid over a substantial horizontal distance for effecting a heat exchange between the gases and the liquid over a relatively long path.

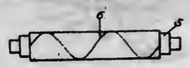
1,456,875. TOWING DOLLY. CHRISTIAN T. JACOBSEN, San Francisco, Calif. Filed Apr. 18, 1922. Serial No. 555,342. 3 Claims. (Cl. 280—61.)

1. In a device of the class specified, the combination with a pair of wheels, an axle about which the wheels revolve, a frame attached to the axle, a U-shaped extension bar hinged by a pintle at one side of the frame and



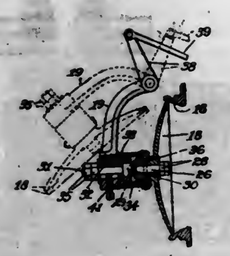
supported by a chain, and a rigid tongue attached to the other side of the frame for elevating the extension bar.

1,456,876. METHOD OF MAKING TUBES. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,494. 3 Claims. (Cl. 93—81.)



1. A method of making tubes that comprises cutting a sheet of material to provide tapered, substantially parallel ends therefor, impregnating the sheet with an adhesive, rolling the material to form a tube and applying heat and pressure thereto to compact the material and to harden the adhesive.

1,456,877. MIXING MACHINE. JOSEPH E. KENNEDY, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,718. 10 Claims. (Cl. 83—73.)

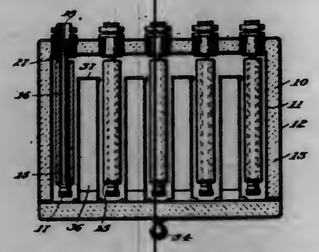


1. In a mixing machine, the combination of a revolubly supported drum having an opening axially at the end; a door for said opening; an arm pivotally supported to have movement toward and away from said drum opening; and means to mount the door upon the arm to have rotative movement and have adjustment on the arm transversely of the axis of rotation of the door.

1,456,878. ELECTRICAL HEATING DEVICE. MILTON M. KOHN, New York, N. Y. Filed Jan. 28, 1921. Serial No. 440,641. 11 Claims. (Cl. 219—35.)

1. An electrical heating device comprising a casing, quickly removable, replaceable and interchangeable

heating units, quick detachable connectors each comprising two parts, one of which is removable with the



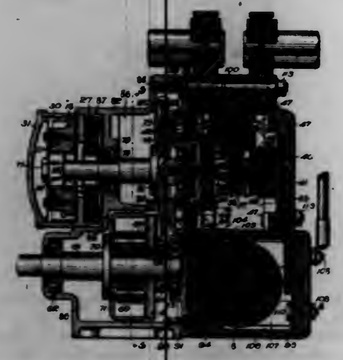
heating units and the other of which is attached to the casing and constitutes a terminal.

1,456,879. SHOVEL ATTACHMENT. THOMAS NEWMAN, Omaha, Nebr., assignor of one-half to Vernon B. Smith, Omaha, Nebr. Filed Aug. 7, 1922. Serial No. 580,126. 7 Claims. (Cl. 294—58.)



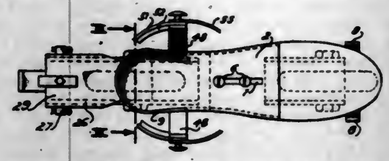
1. In an attachment for an implement having a handle, a lifting-bar pivotally mounted on said handle, and resilient means connected with the lifting-bar and handle and actuated by a swinging movement of said bar for resisting a movement of the bar in one direction.

1,456,880. BATTERY-IGNITION SYSTEM. ADOLPH ROSNER, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed June 18, 1920. Serial No. 389,952. 16 Claims. (Cl. 123—148.)



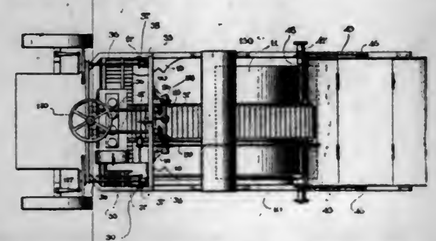
1. In an ignition instrument taking current from an outside source, the combination of an induction coil having primary and secondary windings, forming, respectively, parts of the primary and secondary circuits, an interrupter for the primary circuit, a distributor for the secondary circuit and parallel driving and driven shafts, the latter driving said interrupter and said distributor, and means on said driving shaft responsive to variations in the speed of said driving shaft to change the timing of said driven shaft relatively to said driving shaft.

1,456,881. PAVEMENT GLIDE. WILLIAM O. CARLEY, Walla Walla, Wash. Filed June 27, 1921. Serial No. 480,592. 1 Claim. (Cl. 46—51.)



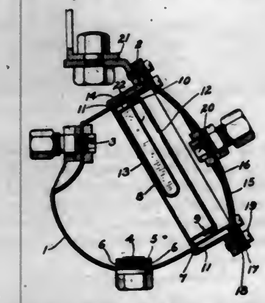
A pavement glide, comprising a front and a rear axle, a wheel rotatably secured on each axle, a foot base centrally supported over the wheels, brackets depending from the rear end of the base providing a bearing rearwardly of the rear wheel, a ground and a wheel brake pivotally supported in the bearing having means associated therewith for maintaining them in alinement, a spring for holding them in an operative position and means associated with the foot base adapted to render the wheel brake inactive.

1,456,882. ROAD MACHINE. KNUT CHRISTENSON, Benedict, N. Dak. Filed Jan. 4, 1921. Serial No. 434,914. 3 Claims. (Cl. 37—110.)



1. In a road machine of the character described, a main frame, earth working elements arranged below and at each side of said main frame, a hopper carried by the main frame, and means for conveying the material from said earth working elements to said hopper including lateral conveyors receiving the material from said earth working elements and extending inwardly toward the center of the machine, and a main elevator conveyor receiving the material from said lateral conveyors and delivering it to the hopper.

1,456,883. GASOLINE FILTER. HUGH ALLEN DEEKS, Toronto, Ontario, Canada. Filed Apr. 14, 1922. Serial No. 552,543. 9 Claims. (Cl. 210—165.)



1. In gasoline filters, the combination with a casing having a gasoline inlet in one end and a gasoline outlet in the other, of a filtering unit mounted in the casing comprising spaced apart filtering media, one of which is

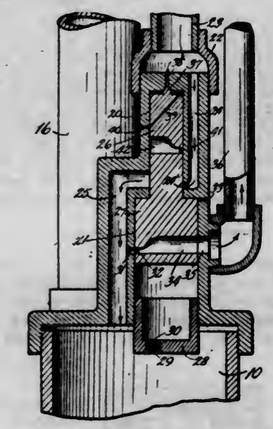
impervious to water, and a by-pass for allowing the gasoline to reach the outlet without passing through the filtering medium impervious to water, upon such gasoline reaching a predetermined level in the casing.

1,456,884. COMPOSITE PLATE. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,660. 3 Claims. (Cl. 74—28.)



1. A self-sustaining gear comprising superimposed layers of woven, twisted strands of paper impregnated with a hardened phenolic condensation product.

1,456,885. DISPLACEMENT PUMP. FRANK GARDNER, Dallas, Tex. Filed May 27, 1922. Serial No. 564,007. 6 Claims. (Cl. 103—245.)



1. In a displacement pump, a displacement chamber having a valved liquid inlet and a valved liquid outlet, a controlling valve mounted on the chamber and having a high pressure fluid passage extending therethrough and connecting with the chamber, a fluid actuated member in the valve alternately intercepting the passage of high pressure fluid thru said valve subject to fluid pressure at each end, and variable pressure controlling means at one end of said member for governing the period for which a residual pressure is maintained at said end of said member.

1,456,886. LOCKING HINGE. KARL OTTO GOBER, Oakland, Calif. Filed Nov. 16, 1921. Serial No. 515,535. 3 Claims. (Cl. 16—146.)



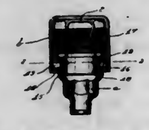
1. The combination of a hinge made of two strips of metal pivotally connected to each other and a lock comprising a slot in one strip, a rigid member secured to the other strip having a projection engaging the slot when the hinge is turned into a desired position, and means for locking the projection to said slot.

1,456,887. DRIVE-WHEEL CONSTRUCTION FOR TRACTORS. HENRY KROMBEIN, Oak Bank, Manitoba, Canada. Filed Feb. 7, 1922. Serial No. 534,832. 2 Claims. (Cl. 301—48.)



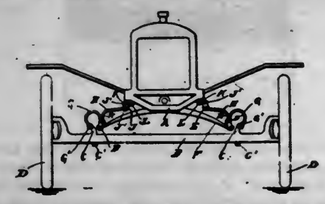
2. A drive wheel construction for tractors comprising in combination with the drive axle of the said tractor, a cam-shaped hub positioned on the said axle, a rim, spokes supporting the said rim and connected to the said axle, auxiliary spokes connected to the rim of the wheel and at their inner ends carrying rollers bearing on the hub, rods radially disposed from the said cam-shaped hub, rollers on the inner ends of the said rods and bearing against the face of the cam-shaped hub, earth gripping members or projecting lugs positioned on the outer ends of the said rods and coil springs on the said rods functioned to keep the same in normal position.

1,456,888. GREASE CUP. BRAYTON S. LEWIS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 8, 1921, Serial No. 459,661. Renewed Oct. 18, 1922. Serial No. 595,449. 1 Claim. (Cl. 184—38.)



In a grease cup, a base portion formed from a single piece of sheet metal having a head at one end, an annular fold in its side walls, and a rib between said head and fold; a gasket and a metallic washer between said head and fold; said washer having a notch receiving said rib; and a thread formed on the peripheral edges of said head, gasket and washer.

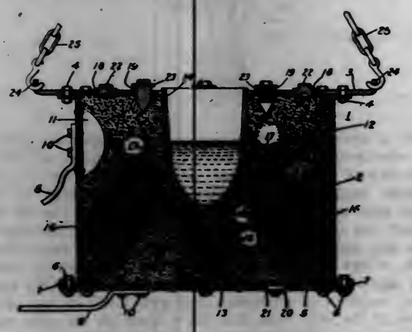
1,456,889. AUXILIARY SPRING FOR MOTOR VEHICLES. EARL W. LITTLE, Indianapolis, Ind., assignor to Edward W. Little. Filed Nov. 6, 1920. Serial No. 422,360. 4 Claims. (Cl. 267—19.)



1. A shock absorbing device comprising a vehicle spring, two auxiliary leaf springs, one comprising an inverted U pivotally connected at one end to an axle element, the

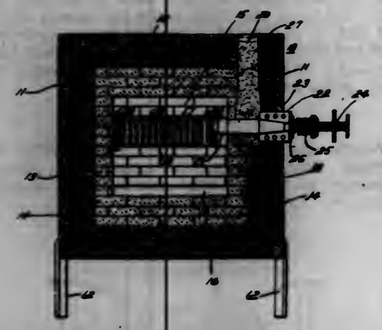
opposite end of said U, pivotally connected to one end of the main spring; the other auxiliary spring forming an arc and supported at one end by a vehicle element and the opposite end of said arc pivotally connected to the said end of the main spring, said auxiliary leaf springs forming a yielding contact with each other at a point intermediate their ends and yieldingly supporting the end of said main spring.

1,456,890. ELECTRIC RESISTANCE FURNACE. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,102. 3 Claims. (Cl. 204—64.)



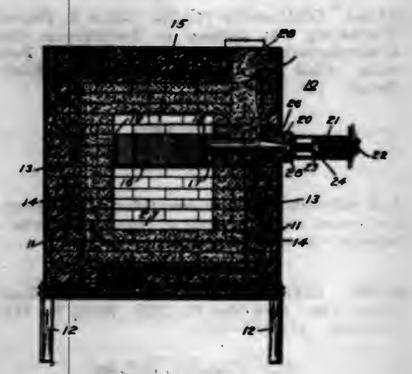
1. An electric furnace comprising a metal container, a metal cover for said container, a metal base plate secured to and insulated from said container, means for attaching electric supply-circuit terminals to said container, granular resistor material surrounding said crucible, and means in said cover for compressing said resistor material in said container.

1,456,891. ELECTRIC FURNACE RESISTOR. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,091. 4 Claims. (Cl. 204—64.)



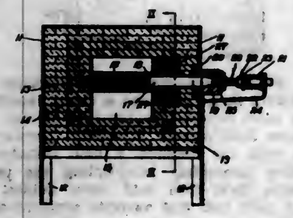
1. An electric-resistance furnace comprising a built-up resistor consisting of single flat carbonaceous plates of relatively large area of cross-section alternating consecutively with a plurality of flat carbonaceous plates of relatively small area of cross section, the area of cross-section of the small plates being in accordance with the kilowatt input of the furnace.

1,456,892. PROTECTED ELECTRODE FOR ELECTRIC FURNACES. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,093. 1 Claim. (Cl. 204—64.)



An electric furnace comprising a plurality of furnace walls, an electrode extending horizontally through one of said walls and movable relatively thereto during operation of the furnace, a well in said wall, a quickly renewable granular oxidizable barrier in said well surrounding said electrode over a portion of its length intermediate its ends, said barrier being adapted to prevent chemical action of entering air upon said electrode but permitting free movement of said electrode relatively to said wall.

1,456,893. ELECTRIC-FURNACE WALL CONSTRUCTION. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,095. 4 Claims. (Cl. 204—64.)

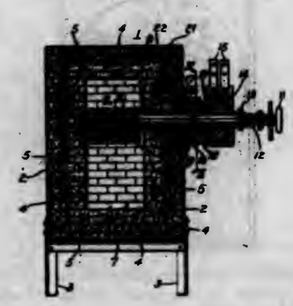


4. An electric furnace comprising a plurality of walls enclosing a furnace chamber, a resistor located in said chamber and supported at one end thereof by one of said walls, a plurality of electrodes operatively engaging said resistor to conduct current to and from said resistor, and means for reducing the current leakage between and from said electrodes said means comprising a plurality of spaced-apart refractory members surrounding said electrodes intermediate their ends and having only a relatively small area of surface contact between adjacent plates.

1,456,894. TELESCOPING ELECTRODE PROTECTOR. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,096. 2 Claims. (Cl. 204—64.)

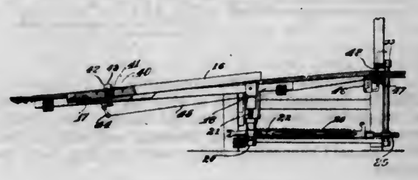
1. An electric furnace comprising a plurality of furnace walls enclosing a furnace chamber, a resistor in said chamber, a carbonaceous electrode extending through one

of said walls for conducting current to and from said resistor and having limited longitudinal movement relatively to said wall, a water-cooled terminal mounted on said electrode at its outer end, granular oxidizable mate-



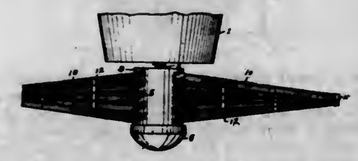
rial surrounding said electrode between said wall and said terminal and a two part telescoping container for said granular material, one part being secured to said wall and the other part being located against said terminal.

1,456,895. GARAGE DOOR. ALEXANDER MCCULLOCH, Govan, Saskatchewan, Canada. Filed July 3, 1920. Serial No. 393,999. Renewed Oct. 27, 1922. Serial No. 597,406. 1 Claim. (Cl. 268—9.)



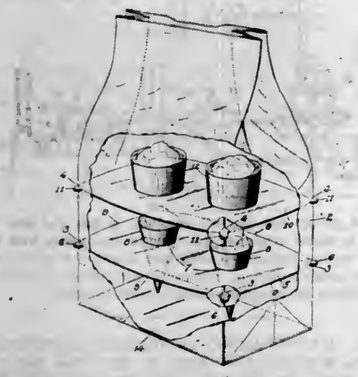
In combination with a pair of garage doors, a pin locking means at the lower ends of one of said doors, an inclined platform to said doors, depressible longitudinal members hingedly connected at one end in said inclined platform, release means in one of said longitudinal members for releasing said locking pin, a means for opening said doors, a means for retaining said doors in open position, a means on the other of said longitudinal members for disengaging said retaining means, and a means on the other side of the door for releasing said retaining means.

1,456,896. PROPELLER. WILLIAM R. MCDONALD, Houston, Tex. Filed May 4, 1922. Serial No. 558,490. 4 Claims. (Cl. 170—165.)



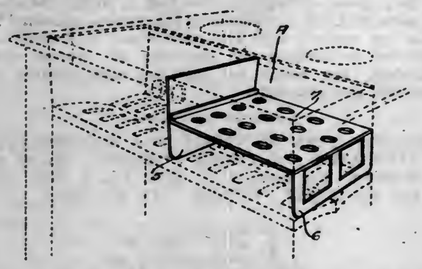
1. A propeller including a hub, and a plurality of series of propeller blades anchored thereto, and radiating therefrom, said hub having spiral mortises and the adjoining ends of the blades having tenons which fit in said mortises.

1,456,897. PAPER CONTAINER. CHARLES B. MCGRATH, Woodland, Me., assignor to the Grand Lake Company, Inc., Woodland, Me., a Corporation of Maine. Filed Apr. 15, 1920. Serial No. 374,049. 4 Claims. (Cl. 229—53.)



1. An article of the character described, comprising a paper bag of substantially rectangular outline in horizontal cross section, the vertical edges of said bag having notches cut therein at a substantially uniform distance from the bottom of the bag, and a shelf having projecting corners extending into said notches, whereby said shelf is removably supported in said bag by the engagement of said corners with the edges of said notches.

1,456,898. FUEL-SAVING DEVICE FOR DOMESTIC STOVES AND RANGES. ALFRED MANSFIELD, Victoria, British Columbia, Canada. Filed Sept. 15, 1920. Serial No. 410,368. 1 Claim. (Cl. 126—147.)

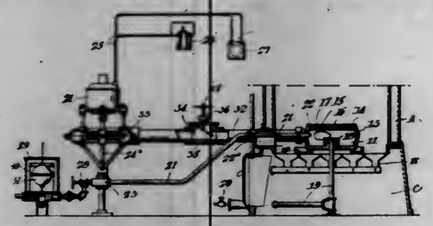


A fuel saver for insertion in a fire box, comprising a pair of end plates adapted to rest at their lower edges on the bottom of the fire box at one end of the latter, said plates being of unequal height and spaced apart a distance approximating one-half the length of the fire box, a perforated body plate secured at one end upon the upper edge of the shorter of the end plates and at the opposite ends to the intermediate portion of the remaining end plate, the last mentioned end plate, being of sufficient height to extend from the bottom to the top of the fire box.

1,456,899. OIL BURNER. ALLAN GILMOUR MATHER, Ottawa, Ontario, Canada, assignor of one-half to Albert Edward Bradbury, Ottawa, Ontario, Canada. Filed Mar. 7, 1922. Serial No. 541,710. 10 Claims. (Cl. 158—28.)

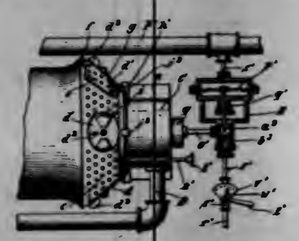
5. In an oil burner as described in combination a furnace grate, a burner thereon having an interchangeable apertured top, a pilot in the burner, oil and air supply conduits communicating with the burner, con-

trol valves for regulating the supply of oil and air in said conduits, a perforated diaphragm in the oil conduit designed in combination with the contracted nozzle on the conduit to provide an even flow of oil for the



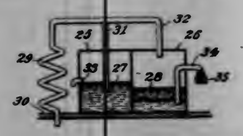
burner, a pump for the oil conduit, a fan for the air conduit, a motor designed to operate the pump and the fan and means connected with the source of power for operating said motor, a reservoir connected to the oil supply source designed to supply said pump.

1,456,900. HYDROCARBON VAPORIZER AND BURNER. EDWARD MELTZER, New York, N. Y. Filed May 13, 1920. Serial No. 381,040. 1 Claim. (Cl. 158—56.)



In a device of the class described, a mixing chamber, a perforated cap for admitting air thereto, openings in said cap separate from said perforations, a plurality of shutters or dampers for admitting air through said openings, and means for operating said shutters or dampers simultaneously.

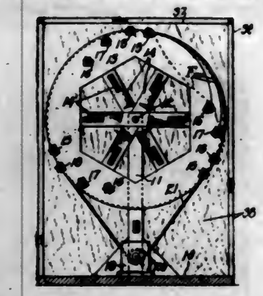
1,456,901. TANK OR VESSEL FOR ELECTROLYTIC APPARATUS AND OTHER PURPOSES. RALPH D. MERSHON, New York, N. Y. Filed Jan. 8, 1920. Serial No. 350,184. 7 Claims. (Cl. 175—315.)



1. A closed tank or vessel, and breathing means therefor comprising a closed chamber partially filled with liquid and having a gas-space in communication with the interior of said tank, a gas-inlet tube opening outside of the chamber and terminating below the surface of the liquid therein, a second chamber partially filled with liquid and having a gas-space communicating with the atmosphere, and a tube open at one end to the interior of said vessel and having another end immersed in the liquid in the second chamber.

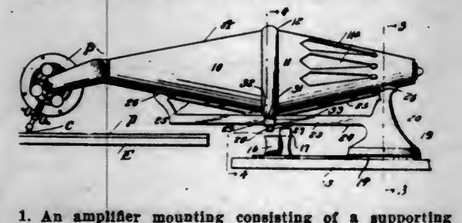
1,456,902. PHOTOGRAPHIC-FILM-DRYING APPARATUS. STEPHEN T. MICHELSEN, Washington, D. C. Filed Aug. 26, 1921. Serial No. 495,675. 6 Claims. (Cl. 34—26.)

1. A centrifugal drying apparatus for photographic films composed in part of an open cylinder carrying master means for securing one end of each of the films of different lengths and individual means for securing the other ends thereof, and means for rotating said cylinder



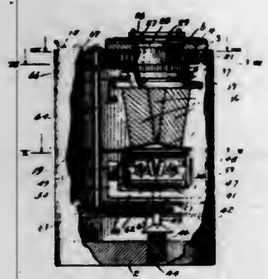
at a high speed to cause the said films to bow out of contact with certain of the said individual means, substantially as set forth.

1,456,903. PHONOGRAPH-AMPLIFIER MOUNTING. VINCENZO MINNELLI, Pittston, Pa. Filed Feb. 4, 1922. Serial No. 534,138. 3 Claims. (Cl. 274—16.)



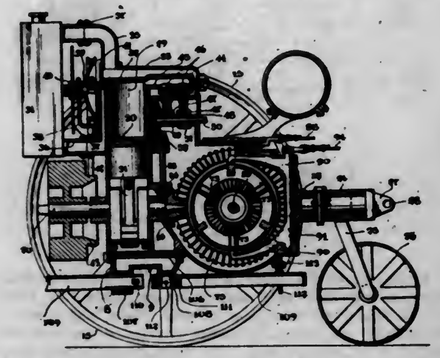
1. An amplifier mounting consisting of a supporting means, in combination with a stop lug extending from the supporting means, a bracket having an opening through which said stop lug projects, and said bracket embracing said supporting means and extending from the amplifier.

1,456,904. AUTOMATIC PENCIL SHARPENER. HARLAN M. MITCHELL, San Francisco, Calif. Filed June 19, 1922. Serial No. 569,197. 6 Claims. (Cl. 120—96.)



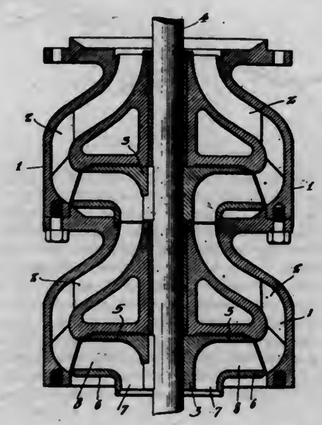
3. In a pencil sharpener of the character described, a pair of sharpening elements engaging the pencil point on opposite sides, and means for reciprocating each of them comprising a shaft having a guide fixed thereto, a slide on the same supporting the sharpening member having a longitudinal groove for clearing the shaft and a transverse groove, a rotary wheel, a pin projecting from the latter engaging the transverse groove in the slide for reciprocating the same and means for holding the slide stationary while the pin crosses the longitudinal groove, comprising a terminal stop preventing motion in one direction and co-acting projections on the wheel and the slide slidably engaging one another for preventing motion in the other direction.

1,456,905. TRACTOR. LEONIDAS JAMES MITCHELL, Huntington, W. Va. Filed Sept. 22, 1921. Serial No. 502,378. 6 Claims. (Cl. 180—17.)



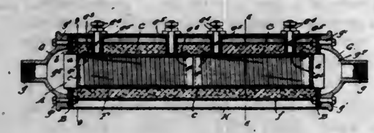
1. In combination, a pair of drive wheels, a stationary shaft mounted between said wheels, a pair of differential ring gears loosely mounted upon said shaft, a ring surrounding the ring gears and rotatably supporting a plurality of differential pinions disposed between the ring gears and adapted to constantly mesh therewith, power means for driving said ring gears in either direction, a clutch whereby each differential ring gear may be connected to its associated drive wheel, and means shiftable upon the shaft for locking the two ring gears together.

1,456,906. CENTRIFUGAL PUMP. JOHN D. NOLAND, Memphis, Tenn., assignor to Layne and Bowler Company, Memphis, Tenn., a Corporation of Texas. Filed Aug. 22, 1921. Serial No. 494,320. 2 Claims. (Cl. 103—115.)



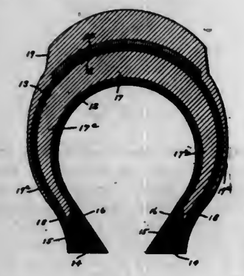
1. In a centrifugal pump, the combination, with a pump bowl provided with water ways for conducting fluid around an approximately right-angled curve, of a drive shaft journaled to rotate in the pump bowl, and a centrifugal runner secured to the shaft and rotatable within the pump bowl, said runner having fluid passages in a plane at right angles to the axis of rotation and formed with the periphery of the runner at the point of discharge of the fluid passages angled proportionately to the curve of the water ways.

1,456,907. ELECTRIC HEATER FOR FLUIDS. CARL T. PENTON, Detroit, Mich. Filed Aug. 17, 1921. Serial No. 492,946. 14 Claims. (Cl. 219—39.)



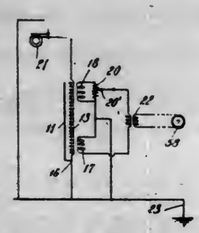
1. In an electric heater for fluids, the combination of a plurality of lengths of flat metal tubes made of resilient material and arranged side by side to form a group, substantially flat electric heating elements adapted to be removably inserted between adjacent lengths of tubes, and brace members engaging the opposite sides of the groups of tubes to limit the expansion thereof, said tubes, when fluid under pressure is admitted thereto, expanding laterally to securely hold said elements in place therein and to facilitate the conducting of heat from said elements to the fluid.

1,456,908. PNEUMATIC TIRE. WILLIAM E. POWERS, Boston, and MARTIN F. HANNIGAN, Watertown, Mass. Filed May 1, 1922. Serial No. 557,528. 4 Claims. (Cl. 152—13.)



1. A pneumatic tire comprising an inner tread of rubber separately molded and vulcanized to semi-hardness, and including side portions extending to the edge portions of the tire, a fibrous outer facing secured to the outer surface of the inner tread, and an outer tread of relatively soft rubber secured to the outer surface of the outer facing, the semi-hardness of the inner tread providing exemption from rim cuts and blow outs, and minimizing liability of puncture of the inner tread and of an enclosed inner tube.

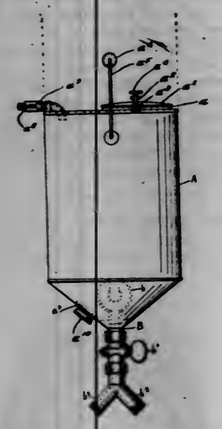
1,456,909. WAVE CONDUCTOR. MICHAEL IDVORSKY PUPIN, Norfolk, Conn., assignor to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 10, 1918, Serial No. 257,570. Renewed Sept. 1, 1922. Serial No. 585,834. 14 Claims. (Cl. 175—183.)



2. A wave balance, comprising a conductor having substantially uniformly distributed inductance, resistance and

capacity, and a pair of secondary circuits inductively associated with said conductor and arranged to be positioned with respect thereto so that the electromotive forces induced in said circuits are of predetermined amplitude and phase relation with respect to each other and with respect to the electromotive force impressed upon the conductor.

1,456,910. PAINTING DEVICE. ALFIO RAPISARDI, Boston, Mass. Filed June 21, 1921. Serial No. 479,377. 2 Claims. (Cl. 91—39.)



1. In a device of the kind described, a reservoir having a filling opening in its top surface, a valve located in said top surface to permit the injection of air pressure above the contents of said reservoir, a trap mounted upon a tube projecting into the outlet from said reservoir whereby sediment and dirt are prevented from clogging said outlet and an opening in the bottom of said reservoir to drain sediment and dirt therefrom.

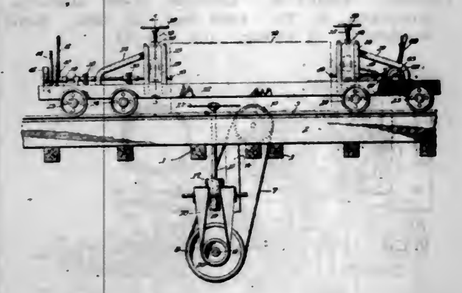
2. In a device of the kind described, the combination of a chamber portion, a brush portion, means comprising a block within said chamber, having an opening extending downwardly through an extension thereof within the brush portion of said device, a spring controlled valve seated in said opening, and arms to position said valve, to permit a constant flow of liquid upon said brush portion and means cooperating therewith to controllably regulate said flow.

1,456,911. MOLD FOR BURIAL VAULTS. RICHARD REMING, Norwalk, Ohio, assignor to The Norwalk Vault Company, Norwalk, Ohio, a Corporation of Ohio. Filed Mar. 7, 1922. Serial No. 541,726. 3 Claims. (Cl. 25—130.)



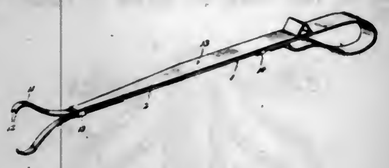
1. In a cover mold for a container the combination of a base member, end and side members separably secured thereto and a cover adapted to be secured to said side members having a longitudinal slot near the middle thereof, and holes adapted to receive four handles at suitable intervals in said cover.

1,456,912. QUARTER-SAWING MACHINE. ROBERT THEODORE RUSH, Hattiesburg, Miss. Filed May 29, 1922. Serial No. 564,443. 6 Claims. (Cl. 143—30.)



1. In a sawing machine, a plurality of parallel vertical saws, a horizontal saw adapted to cut across the kerfs cut by the vertical saws, a carriage above said saws, a head stock and tail stock on the carriage, means for centering a log between said head stock and tail stock comprising a live center pin passing through the head stock and a dead center pin longitudinally adjustable in the tail stock, both of said centering pins being vertically adjustable, said live centering pin having a flexible extension journalled at its free end on the carriage and adapted to permit vertical adjustments of said pin, lever operable means on the carriage connected to said journalled extension for rotating the pin, and means for locking the pin in adjusted positions.

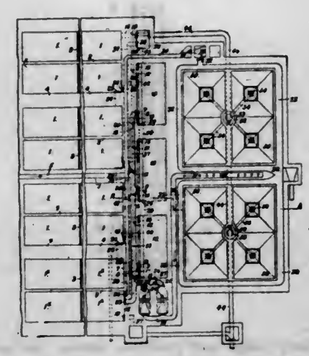
1,456,913. FORK. LOUIS W. BUSCH, Toledo, Ohio. Filed Apr. 4, 1921. Serial No. 458,212. 1 Claim. (Cl. 294—100.)



In an implement of the class described, a handle member, prongs having shanks secured at their inner ends to opposite sides of the handle member, the shanks being resilient and beyond their point of attachment being sprung outwardly in opposite directions away from the handle member and having terminal gripping portions directed inwardly toward each other, and means slidably mounted upon the handle member and including an element embracing the said shanks of the prongs whereby when the said means is slid in the direction of the attached ends of the shanks, the shanks will be permitted to spread apart through their resiliency and when the means is slid in the opposite direction the shanks will be moved inwardly toward the handle member against their resiliency.

1,456,914. SYSTEM FOR THE TREATMENT OF SEWAGE AND THE LIKE. JAMES ALGER COOMBS, Hampstead, London, England. Filed Nov. 14, 1922. Serial No. 600,952. 4 Claims. (Cl. 210—8.)

1. A sewage purifying system, comprising a plurality of treating tanks, a plurality of sludge aerating tanks, a plurality of auxiliary tanks, a plurality of settling tanks, each of said auxiliary tanks having inlet and outlet communication with the treating tanks, an outlet communication with the sludge aerating tanks, and means where-



by the material from the settling tanks may be delivered to the sludge aerating tanks or to the auxiliary tanks at will.

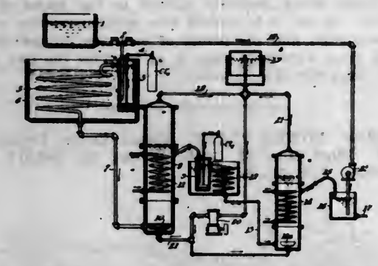
1,456,915. SHOE-HEEL STIFFENER. WILLIAM M. COURSON, Traverse City, Mich. Filed Aug. 17, 1922. Serial No. 582,486. 1 Claim. (Cl. 36—68.)



A shoe brace for fitting within the rear portion of a shoe, said brace being formed from a sheet metal blank including a base forming portion and a tongue forming portion, said blank being reduced intermediate its length and bent transversely at the reduced portion to provide a base conforming to the contour of the heel portion of a shoe and an upwardly extending tongue portion extending upwardly from the rear end of the base, said tongue being curved transversely and having its sides and upper edge portions bent to extend rearwardly.

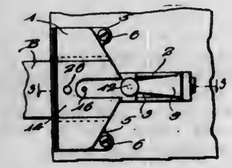
1,456,916. PROCESS OF MAKING CHLORHYDRINS. GEORGE O. CURME, Jr., Clendenin, W. Va., and CHARLES O. YOUNG, Elmhurst, N. Y., assignors to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed May 12, 1922. Serial No. 560,391. 6 Claims. (Cl. 260—157.)

1. Process of making chlorhydrins from olefines, comprising reacting with the hydrocarbon upon a solution containing free hypochlorous acid and a hypochlorite, thereby preparing chlorhydrin substantially free from



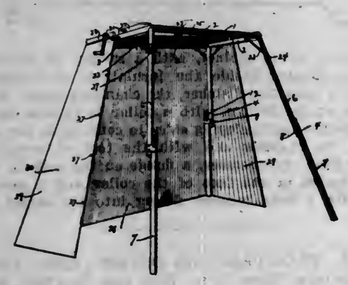
ethylene or propylene chlorids; setting free hypochlorous acid from the residual hypochlorite; and reacting thereon with a further quantity of the hydrocarbon.

1,456,917. DOOR-LOCK KEEPER. FRANK DI BELLA, New York, N. Y. Original application filed May 9, 1921, Serial No. 468,002. Divided and this application filed Feb. 27, 1922. Serial No. 539,476. 5 Claims. (Cl. 70—15.)



1. A lock keeper comprising a jamb engaging socket including a wall section movable to an open position and yieldably held in a closed position, latch means for releasably holding the wall section in an open position to permit an extended bolt of a door-carried lock to enter the socket and engage said latch to move the latch to an inoperative position and permit movement of the wall section to a closed position, and additional means for engaging the movable wall section and releasably holding the movable wall section in an open position, the last mentioned means when in operative engagement with the movable wall section serving to prevent movement of the wall section to a closed position when the first mentioned latching means is moved to an inoperative position.

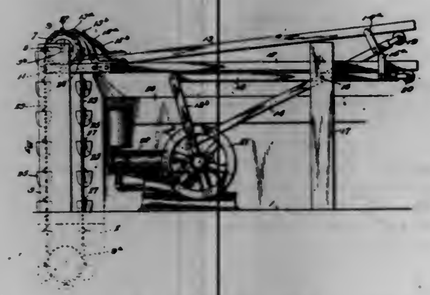
1,456,918. FOLDING TENT. BENJAMIN B. DUDLEY, Visalia, Calif. Filed Aug. 24, 1921. Serial No. 495,014. 2 Claims. (Cl. 135—4.)



2. In a folding tent, a rectangular elongated top frame centrally divided and hinged so as to fold downwardly

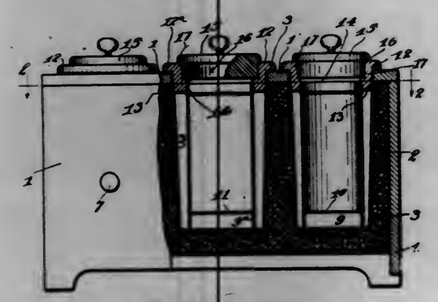
only, a leg for each corner extending in diagonal direction and a hinge for each leg allowing the same to swing into a plane parallel to the plane of the frame, said hinge being pivotally secured to the frame so as to allow the leg to be turned into parallel relation with a frame edge, and the pivots of each two hinges being spaced from a common edge so as to allow the two legs to lie alongside of each other.

1,456,919. POWER PLANT. HARRY EBERT, Frederick, Md. Filed Mar. 31, 1919. Serial No. 286,517. 2 Claims. (Cl. 74—54.)



1. A power plant comprising a lever, a crank member, a generator driving said crank member, a pitman interconnecting said crank and lever, a second lever resting upon the free end of said first lever, and means mounted upon said second lever for transmitting rotary motion to a member to be driven.

1,456,920. ICE-CREAM CABINET. GEORGE H. ECCLES, Seattle, Wash. Filed Aug. 16, 1922. Serial No. 582,255. 3 Claims. (Cl. 217—7.)



1. An ice cream cabinet, with a casing, an insulation lining a chamber inside the insulation, an adjustable drain tube from the chamber, the chambers larger at the top than at the bottom, with a collar to fit into the top of the chamber with sloping sides to conform to the inner edge of the chamber and with the tops of receptacles placed within the chamber, a flange on the collar's outer side, a socket in the face of the collar and a cap provided with a body member fitting into the socket.

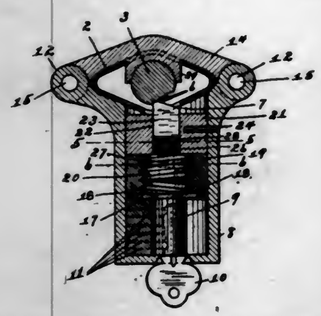
1,456,921. TRANSPLANTING DEVICE. HENRY DEMASCUS ELLIOTT, Tabor, N. C. Filed Dec. 22, 1921. Serial No. 524,273. 5 Claims. (Cl. 111—4.)

1. A transplanting device of the character described, comprising a delivery tube, an annular tamping member surrounding the lower end of said tube, a pair of pointed blades pivotally connected to each other intermediate their ends and disposed between the tampering member



and delivery tube, and yieldable means for urging the upper ends of said blades outwardly with respect to each other, and means whereby the upper ends of said blades may be moved toward each other.

1,456,922. AUTOMOBILE LOCKING MECHANISM. JOHN W. FLYNN, Waterford, N. Y., assignor of one-third to Frederick W. Kavanaugh and one-third to Charles H. Kavanaugh, both of Waterford, N. Y. Filed Mar. 8, 1922. Serial No. 542,122. 3 Claims. (Cl. 70—90.)

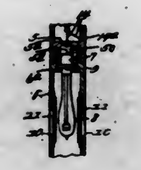


1. The combination with a rotatory steering-shaft of an automobile or the like; of a Yale-lock mounted upon a stationary support; a screw-threaded member in fixed relation to the rotatory barrel of said lock in engagement with a cooperating non-rotatory screw-threaded member; and a bolt carried by the latter screw-threaded member, said bolt being capable of ratchetwise engagement with the steering-shaft.

1,456,923. TRAFFIC SIGNAL OR INDICATOR. ANDREW C. FOWLS, New Philadelphia, Ohio. Filed Mar. 27, 1920. Serial No. 369,262. 2 Claims. (Cl. 177—329.)

1. In a socket for a signal arm for a traffic signal, having means for actuating the arm, said arm comprising a body section provided at one end with internal threads and a transverse disc wall at the base of the threads, a tubular lamp socket projecting from said wall and spaced from the internal threaded surface of the end of the body section, an electric light bulb having its plug end provided with an annular collar to engage the margin of the wall of said socket when the plug end of the bulb engages within said socket, a hand section having an

extension connected with the internal threaded surface of the end of the body section and fitting around the wall of the socket, said hand section having an internal

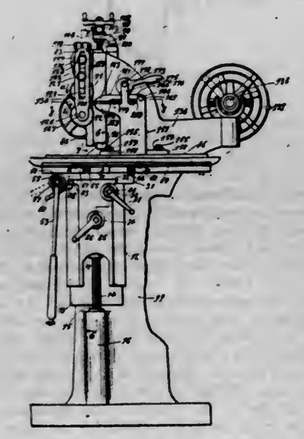


flange bearing upon the collar of the plug and holding it upon the wall of the socket, and electrical means for lighting the bulb when the arm is actuated.

1,456,924. PLASTER AND PROCESS OF MAKING THE SAME. PIERRE E. HAYNES, Buffalo, and GEORGE P. GERFIN, Niagara Falls, N. Y., assignors to The Linde Air Products Company, a Corporation of Ohio. Filed Apr. 29, 1921. Serial No. 465,480. 7 Claims. (Cl. 106—24.)

1. The process of treating lime sludge containing lime as the principal non-aqueous ingredient which comprises mixing it with a water-absorbing cementitious material in such proportions that a mixture of plaster-like consistency is formed.

1,456,925. MECHANISM FOR MAKING PISTON RINGS. HARRY A. HECKMANN, Cincinnati, Ohio, assignor to The United States Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 5, 1921. Serial No. 520,039. 7 Claims. (Cl. 90—16.)



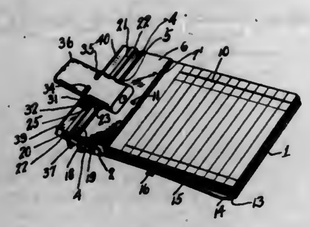
1. In a metal working machine for making piston rings, the combination of a pair of arbors, means for rotating said arbors, a pair of cutter-blades on said arbors, means for adjusting said cutter-blades to locate the proximate sides of the teeth thereof in substantially the same plane and the points of closest approach in the paths of said respective teeth in substantially coincident positions, means for supporting a blank for a piston ring, and means whereby to cause approach between said blank and said cutter-blades to cut proximate grooves in opposite faces of said blank and sever said blank at the proximate ends of said grooves to form rabbets and tongues arranged to be received in said rabbets.

1,456,926. GRAVITY-CORRECTION DEVICE. WILLIAM ROBERT HOUNSELL, Okmulgee, Okla. Filed Jan. 10, 1922. Serial No. 528,230. 3 Claims. (Cl. 235—83.)



1. A calculating device comprising a disk provided with a scale on one face thereof, a sector provided with a scale and with an index element adapted to cooperate with the scale on the disk, means for supporting said disk and said sector for independent revoluble movement, and a pointer supported upon said supporting means and adapted to cooperate with both of said scales.

1,456,927. WRITING PAD. DAVID M. KUMPF, Pekin, Ill. Filed Apr. 14, 1922. Serial No. 552,710. 3 Claims. (Cl. 240—8.4.)



1. In a device for the purpose set forth, a plate on which a pad rests, a housing on the plate receiving one end of the pad therein, means between the housing and pad retaining the latter on the plate, links pivotally secured to the sides of the housing and projecting rearwardly therefrom, spring fingers supported from the plate and contacting the outer sides of the links for forcing the links toward the housing and for limiting the swinging of the links in one direction, a plate pivotally secured between the links, a revoluble element on the plate, and adjustable light supporting means on the revoluble element.

1,456,928. ELECTRICAL-CONNECTOR FORMING TOOL. JAMES LAKE, Jr., New York, N. Y., assignor to George G. Erb, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,808. 4 Claims. (Cl. 7—3.)

1. A tool as characterized comprising manually operated clamping jaws, forming pads mounted on the op-

posed faces of said jaws for supporting shank-provided eyelets in aligning relation and adapted for spreading and overturning the ends of the shanks thereof when



said jaws are actuated; and clipper blades mounted upon said jaws for severing the ends of wire passing between said eyelets.

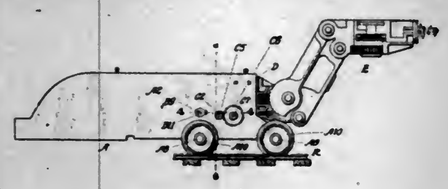
1,456,929. ANIMAL TRAP. OLE H. MOEN, Inwood, Iowa. Filed Nov. 2, 1922. Serial No. 598,626. 5 Claims. (Cl. 43—88.)



1. An animal trap comprising a base, a sliding member guided upon said base, a spring tending to slide said member in direction of springing the trap, a bait carrying element and means inserted between said element and said sliding member to hold the latter in set position; gripping jaws pivoted on said sliding member and other means on said base actuating the opening and closing of the jaws during the setting and springing of said sliding member, said other means including a staple and said gripping jaws having shanks engaging said staple.

1,456,930. MINING AND QUARRYING MACHINE. CYRUS S. OLDROYD, Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn., a Corporation of Tennessee. Filed June 24, 1919, Serial No. 306,335. Renewed Oct. 28, 1922. Serial No. 597,693. 10 Claims. (Cl. 262—25.)

1. In a machine of the nature described, the combination with a body having a bearing which is on a longitudinal, horizontal axis, of a cutting mechanism supporting means having a neck seated rotatably in said bearing, a worm gear wheel seated on said neck, a worm shaft transverse to said neck and having a worm engaging said worm wheel, a power transmission shaft which is on said axial line, a first gear wheel on said shaft, a second gear wheel meshing with the first and having an axial



line which is transverse to said transmission shaft, and gearing intervening said second gear wheel and said worm shaft for transmitting motion to said shaft, substantially as described.

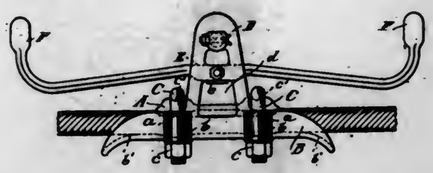
1,456,931. LOGGING HOOK AND LINK. LUKE EVERETT PARKER, Pe Ell, Wash. Filed Apr. 5, 1922. Serial No. 549,699. 2 Claims. (Cl. 24—230.5.)



1. A hook comprising a body portion provided with a bill at one end and with a loop portion at the other end thereof, the loop portion being arranged so that a portion thereof projects forwardly of the body portion, and a retaining and strengthening element positioned upon said body portion to restrict the passageway leading through the space between the bill and the body portion of the hook and extending in one direction to the forwardly projecting portion of the hook and in the opposite direction an appreciable distance along the body portion of the hook to strengthen the latter adjacent to the loop portion thereof and to stay the loop portion of the hook, the face of the retaining and strengthening element remote from the body portion of the hook lying in a plane tangent to the outer side of the bill.

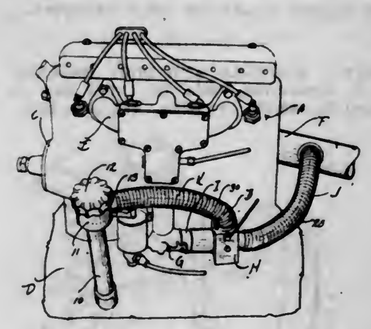
1,456,932. SUSPENSION CLAMP FOR ELECTRICAL CONDUCTORS. BENTLEY A. PLIMPTON, Lima, N. Y., assignor of one-half to The Porcelain Insulator Corporation, Lima, N. Y., a Corporation of New York. Filed Oct. 5, 1920. Serial No. 414,878. 1 Claim. (Cl. 24—135.)

In a clamping device for electric insulators, the combination with upper and lower transversely curved clamping members respectively provided with oppositely disposed projecting and recessed portions adapted to grip a cable between them and to crimp the same, one of said clamping members being provided with an exterior



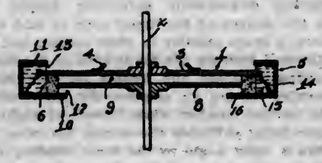
recessed seat in the transverse plane of the projecting and recessed portions, and a retaining device arranged in said seat to straddle the clamping members and having tightening means reacting against the other clamping member.

1,456,933. HEATER AND FUEL SAVER FOR AUTOMOBILES. HARRY T. RASMUSSEN, Denver, Colo., assignor to The Auto Devices and Development Company, Denver, Colo. Filed Mar. 8, 1920. Serial No. 364,211. 5 Claims. (Cl. 123—119.)



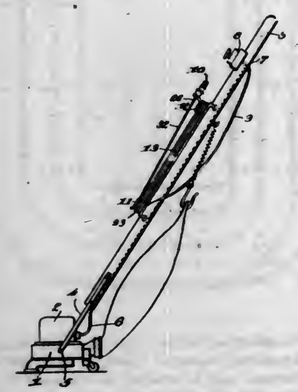
1. The combination with an internal combustion engine including a crank case, a carburetor and an exhaust pipe, of an attachment therefor including a casing having communication with the carburetor, means for introducing gases into the casing accumulated from the exhaust pipe, means for introducing vapor from the crank case to the casing, an electric coil in the casing, a source of electrical energy, and means for connecting and disconnecting the electrical coil with the source of electrical energy.

1,456,934. METHOD AND APPARATUS FOR SEPARATING MATERIALS. JOHN AINSWORTH RICE, San Francisco, Calif. Filed Oct. 16, 1920. Serial No. 417,392. 6 Claims. (Cl. 233—14.)



1. A centrifugal separator embodying in its construction a rotary shaft, a member on said shaft and onto which material to be separated is discharged, an annular chamber rotated by said shaft and receiving the periphery of said member, and a separation liquid of greater specific gravity than the material being treated, being contained within said chamber and a screen extending across said chamber.

1,456,935. CORD HOLDER FOR VACUUM CLEANERS. TILDA B. RICHARDSON, Spokane, Wash. Filed Dec. 1, 1922. Serial No. 604,229. 3 Claims. (Cl. 242—85.)



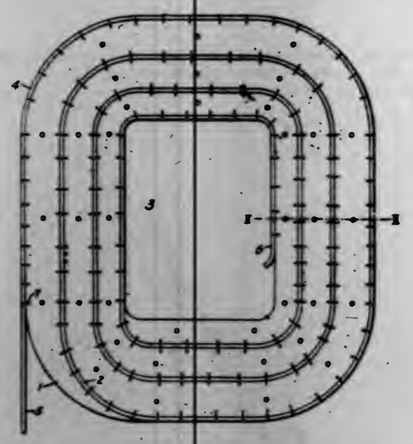
2. As an article of manufacture, one of a pair of holders for a plug equipped cord, said holder having an intermediate portion for receiving one bight of the coiled cord, one end portion being adapted for attachment to the handle, and the remaining end portion of said holder being forked to receive the plug end of the cord and form a seat for the plug.

1,456,936. MARGINAL PRINTING PLATE. LOUIS A. SCHMIDT, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Original application filed Dec. 1, 1921, Serial No. 519,042. Divided and this application filed Nov. 28, 1922. Serial No. 603,755. 5 Claims. (Cl. 101—378.)



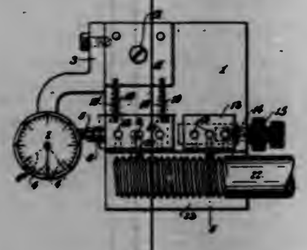
1. In a marginal printing mechanism, the combination with a plate support, of a main printing plate mounted thereon so as to leave a margin space at one end of the plate, a supplemental printing plate secured on the support and having an unbroken printing surface for printing in the margin space at the end of the main plate, and means for locking up the supplemental plate by giving the plate a movement circumferentially of the plate support.

1,456,937. HIGH-VOLTAGE PANCAKE-TYPE COIL. ALFRED SCHNEEBERGER, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 13, 1917. Serial No. 174,471. 6 Claims. (Cl. 175—360.)



1. A pancake-type current-carrying coil comprising a plate of insulating material having a spiral slot extending therethrough and a winding so disposed in said slot that the opposite edges thereof are exposed on each side of said plate.

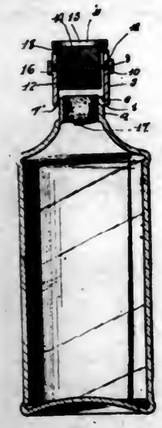
1,456,938. INSTRUMENT FOR TESTING AND COMPARING THE LEAD OF A SCREW THREAD. ARTHUR W. SCHOOF, Greenfield, Mass. Filed Oct. 7, 1921. Serial No. 506,074. 6 Claims. (Cl. 33—199.)



1. In an instrument for testing and comparing the lead of screw threads, the combination with a base piece, of a receiving member for the thread to be compared, a device for receiving a thread engaging member, said device being adjustable for positioning said member, a second device also carrying a thread engaging member, thin elastic strip devices for permitting the said second device to have a freely floating movement in either direction, and means operated by the floating device for indicating the amount of movement of the second device.

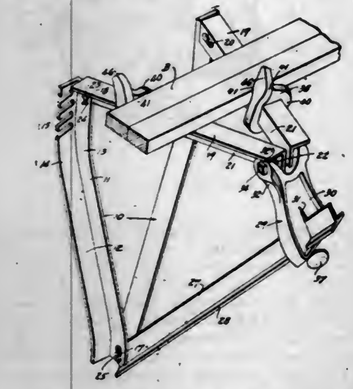
1,456,939. NONREFILLABLE BOTTLE. CHARLES WESLEY SHARP, Hamilton, Ontario, Canada. Filed Aug. 9, 1920. Serial No. 402,245. 1 Claim. (Cl. 215—34.)

A container provided with a neck, an extension formed from said neck, a much less resistant portion being between said neck and said extension, a packing ring between the upper portion of said neck and the lower portion of said extension, a cork fitted into the upper



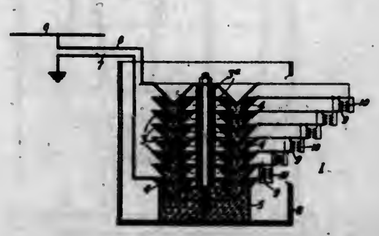
end of said extension and a means for locking said cork against removal so that said portion must be broken before the cork in said neck can be withdrawn.

1,456,940. SCAFFOLD AND ROOF BRACKET. JAY B. F. SHOWALTER, Pekin, Ill. Filed May 11, 1921. Serial No. 468,790. 8 Claims. (Cl. 304—33.)



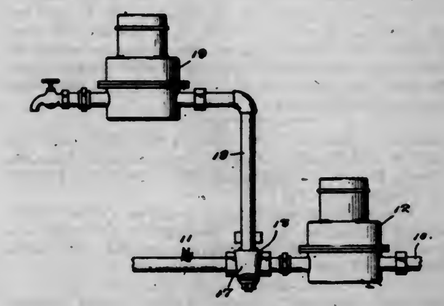
1. A scaffold bracket comprising a pair of vertically disposed members angular in cross section, the upper ends of said members being disposed in a parallel relation and the lower portions of the members extending convergently downward, the upper ends of said members being formed with nail engaging slots and the lower ends with nail engaging notches, arms angular in cross section having downwardly extending flanges loosely pivoted to the flanges at the upper ends of said supporting members, a brace angular in cross section and having a flange disposed between the lower ends of the flanges of the supporting members and loosely pivoted thereto, a locking member having an angular slot to receive said brace, said locking member when turned at right angles to the brace being shiftable therealong but when turned to less than a right angle to the brace binding thereon, said locking member being bifurcated at its upper end, and a bolt passing through the bifurcated end of the locking member and loosely through the vertically extending flanges at the adjacent ends of said arms.

1,456,941. ELECTROLYTIC CELL. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 9, 1919. Serial No. 343,518. 8 Claims. (Cl. 175—316.)



1. An electrolytic condenser, lightning arrester or the like comprising a plurality of cell units, each cell unit including a plurality of film-forming electrodes and a suitable electrolyte and means for equalizing the voltage between the cell units, said means including a winding connected between the electrodes of one unit and another winding inductively related to the first winding and connected to adjacent cell units.

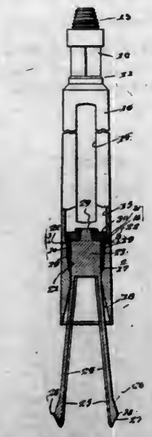
1,456,942. VALVE. JOHN D. SMITH, Cheraw, S. C. Filed July 19, 1922. Serial No. 576,084. 1 Claim. (Cl. 73—167.)



The combination with spaced pipes and a meter arranged between and communicating with said pipes, a means for testing the meter without separating it from the pipes, said means including a valve casing located in one of said pipes, a hollow boss projecting from the valve casing and communicating with the latter, a rotary plug valve operating within the valve casing and including a main bore, an auxiliary opening communicating with the bore at a point between its ends, said valve being designed to alternately close the communication between the meter and one of said pipes and open communication between the valve casing and said hollow boss, a pipe adapted to be associated with said hollow boss, and an auxiliary meter supported by said pipe.

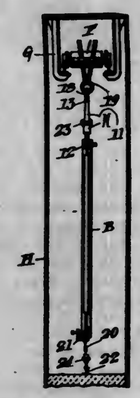
1,456,943. GRAPPLING TOOL. ROBERT E. SMITH, Thermopolis, Wyo. Filed June 2, 1922. Serial No. 565,312. 4 Claims. (Cl. 294—99.)

1. A grappling tool comprising a tubular supporting-member, a jaw-member consisting of a body portion seating in the supporting-member and having resilient jaws adapted to project from the latter, said jaws having a normal tendency to spread, means for so positioning the jaw-member relative to the supporting-member as to leave the jaws projecting from the latter, said members being free to move relative to each other to bring the supporting-member down over the jaws for closing the



same, and means for thereafter preventing a return movement of said members in a direction tending to effect opening of the jaws.

1,456,944. METHOD OF COOLING RAILS OR THE LIKE AFTER ROLLING. CARL STENBOL, Sault Ste. Marie, Ontario, Canada, assignor to Algoma Steel Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Filed Feb. 11, 1922. Serial No. 535,816. 7 Claims. (Cl. 80—42.)



1. In the art of cooling rails and the like after rolling, the herein described step which comprises suspending the rail or the like vertically under tension during cooling.

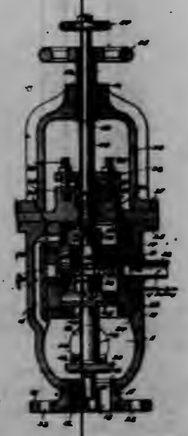
1,456,945. COUPLER. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 11, 1922. Serial No. 593,680. 7 Claims. (Cl. 105—175.)



1. A locomotive articulated truck hinge comprising a pair of co-operating bumpers, a longitudinally disposed

link connecting said bumpers and a transverse link pivotally connected, at its respective ends, to supports associated with said bumpers.

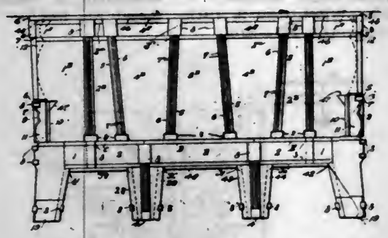
1,456,946. AUTOMATIC STEAM-STOP VALVE. WILLIAM BOTELER STORK, Andover, Mass. Filed Jan. 26, 1921. Serial No. 440,098. 6 Claims. (Cl. 137—139.)



1. In an automatic stop valve, the combination with a valve body having a chamber therein provided with an inlet opening having an inwardly facing valve seat and an outlet opening and a cylindrical extension in line with the inlet opening, of a valve in said chamber fitting said valve seat and movable therefrom in the line of said cylinder, a piston in the end portion of said cylinder facing the valve, a connection between said piston and valve, a second piston in said cylinder beyond and spaced from said first piston, the said pistons being movable within limits with reference to each other, cooperating means for limiting the approach of said pistons towards each other, means for maintaining fluid pressure on the outer face of said second piston equal to that in said chamber to which the face of said first piston is exposed, mechanical means for moving said second piston to such position as to close said valve through the interposed first piston and connection or to a position such as will permit said valve to open, and a port with which said second piston cooperates for supplying fluid independent of but under substantially the same pressure as that in the chamber to the space in said cylinder between said pistons when the valve is open.

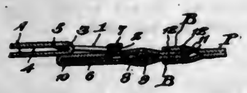
1,456,947. MOLD FORMS IN PAIRS OF COMBINATIVE ASSEMBLED FORMS FOR THE MAKING OF ARTIFICIAL-STONE FURNITURE, ETC. CHARLES FRANCIS STRAUSBAUGH, Detroit, Mich. Filed Aug. 16, 1920. Serial No. 404,042. 4 Claims. (Cl. 25—118.)

1. In a cementitious or plastic interchangeable furniture mold, the combination of changeable back sections formed in four parts, spaced from one another by interchangeable supplemental members and adapted means to receive the material for forming the back to the seat the foremost of said parts terminating at a right angle above the lower edge of the rearmost members, and members forming a space facing having supplemental members to the seat to receive the material for the ends and having intermediate members, projecting downwardly from the bottom sections parts for forming an intermediate changeable leg, and detachable front plates



forming a closure for said ends and permitting an intermediate changeable leg section on the mold.

1,456,948. GARTER. HENRY H. TAYLOR and MYRON B. HAMMOND, Bridgeport, Conn., assignors to The Thomas P. Taylor Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 6, 1922. Serial No. 599,255. 5 Claims. (Cl. 24—225.)



5. In a garter clasp, a central non-elastic pad, leg encircling webbing secured at one end to one side of the pad, a female member carried by the free end of the webbing, a male member carried by the opposite side of said pad and including a metal plate having a plurality of studs to engage the female member, and means to secure the plate to the pad including a flexible member engaged about the plate and secured to the pad and having said studs projected therethrough.

1,456,949. PROCESS OF PURIFYING NATURAL BARIUM SULPHATE. ARMAND LOUIS ADRIEN TEILLARD, Paris, France. Filed June 30, 1922. Serial No. 572,033. 3 Claims. (Cl. 252.)

1. Process for the purification of barium sulphate which comprises grinding the ore, heating the pulverized material to split up the pure crystals and leave the impure crystals, and sifting the material.

1,456,950. SWITCH. RALPH SMITH TOWER, Cottage Grove, Oreg. Filed Nov. 17, 1920. Serial No. 424,621. 4 Claims. (Cl. 200—164.)

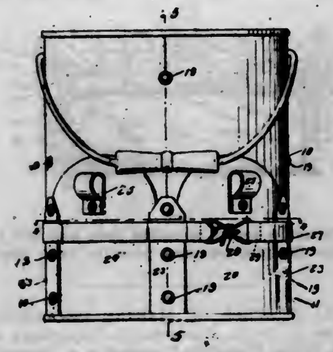


1. A control switch for electrically heated irons, comprising in combination, a base plate, a slidable conductor plate thereon, guide means for said conductor plate, a spring contact plate positioned adjacent each end of the base plate, said spring plates projecting toward each other and adapted to frictionally engage said conductor plate when moved therebeneath.

1,456,951. COMPARTMENT PAIL. ALBERT TWIGG, Garrett, Pa. Filed May 2, 1922. Serial No. 557,948. 3 Claims. (Cl. 220—16.)

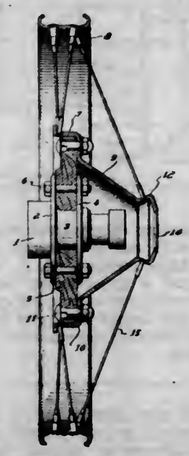
3. A portable pail having partitions therein provided with securing flanges, the side wall of the pail having

openings therethrough and strips intermediate the openings, guide strips disposed against said strips, fastening elements passing through said flanges, first mentioned



strips and guide strips, slidable closures engageable intermediate the first mentioned strips and guide strips, and a pressure band surrounding said guide strips and closures and disposed intermediate said fastening elements.

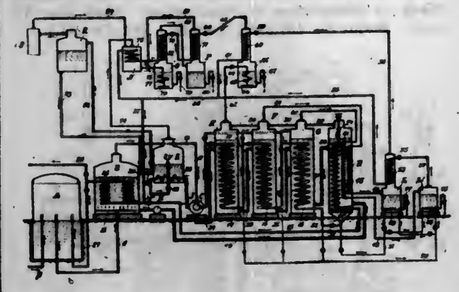
1,456,952. VEHICLE WHEEL. MORTON VAN METER, Cadillac, Mich. Filed Sept. 7, 1920. Serial No. 408,527. 5 Claims. (Cl. 301—9.)



1. In a vehicle wheel the combination with a hub having a fixed lateral flange and a similar flange movable longitudinally of the hub, of a wood disc centrally apertured to receive the hub and adapted to be secured between the said flanges, an auxiliary hub having a portion parallel with the plane of the disc and a portion at a right angle thereto fitting over the periphery of the disc, and bolts extending between the disc and the said parallel portion of the auxiliary hub detachably securing the auxiliary hub to the wood disc, a rim and a series of spokes extending between the rim and auxiliary hub.

1,456,953. SEPARATION OF NATURAL GAS AND DISTILLATION GASES INTO GASOLINE AND OTHER CONSTITUENTS. ALBRECHT VON GROELING, New York, N. Y., assignor to National Refining Corporation, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 28, 1918. Serial No. 256,030. 32 Claims. (Cl. 196—25.)

2. The process of treating hydro-carbon gases, consisting in forcing a circulation of said gases and an absorbent liquid in opposite directions through distilling, cooling and absorbing apparatus, and varying the pressures of



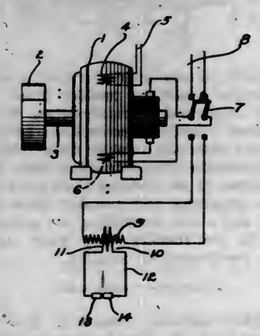
said gases at different steps to produce heat changes for absorption and distilling purposes.

1,456,954. METHOD OF PHOTOGRAPHICALLY REPRODUCING PICTURES REPRESENTED ON CURVED SURFACES. GOTTFRIED VON LÜCKEN, Berlin, Germany. Filed June 16, 1921. Serial No. 478,088. 1 Claim. (Cl. 95—5.)



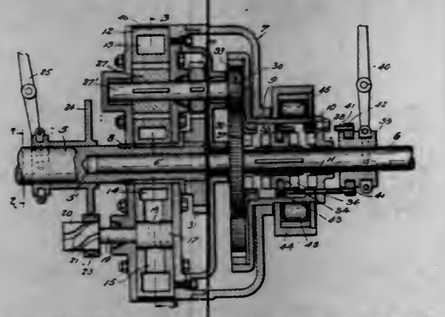
The method of photographically reproducing pictures of curved surfaces, which consists in making a photographic negative of the curved picture surface, winding a sensitized paper on a body having an evolvable surface as similar as possible to that of the surface to be copied and then projecting the negative onto the sensitized paper.

1,456,955. MEANS FOR OBTAINING HIGH MOMENTARY CURRENT. CHARLES F. WAGNER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,238. 6 Claims. (Cl. 219—13.)



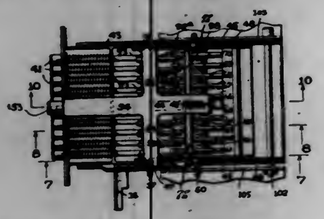
1. In combination with a percussive welding apparatus, means for storing up energy, and means for liberating such energy in the form of an electric current into the welding circuit.

1,456,956. FLUID-CONTROLLED TRANSMISSION. ALVA J. WILLIAMS, Tacoma, Wash., assignor to Williams Oil Control Transmission Company, Tacoma, Wash., a Corporation of Washington. Filed Aug. 30, 1921. Serial No. 497,016. 1 Claim. (Cl. 74—34.)



In transmission apparatus, the combination of a driving shaft, a toothed gear rigidly mounted thereon, a driven shaft, internal and external tooth gears mounted on said driven shaft for independent rotary motion, a casing mounted on one of said shafts for rotation independently thereof, said casing being provided with annularly disposed fluid containing chambers connected by two sets of passages, pump rotors provided in one set of said passages, valves provided in the other set of passages, operative connection between the first named gear and the pump rotors for operating the same, operative connections between said first named gear and the gears aforesaid of the driven shaft, means for coupling either of the last mentioned gears to the driven shaft, means to regulate said valves for controlling the flow of fluid through the respective passages, and means for releasably securing said casing from rotating.

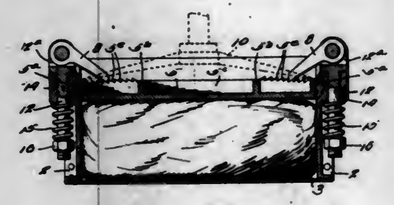
1,456,957. PERMUTATION LOCK. JAMES O. WILSON, Jersey City, N. J. Filed May 12, 1921. Serial No. 468,839. 30 Claims. (Cl. 70—54.)



1. In a lock of the character described, a series of concentrically arranged notched tumbler discs, a series of concentrically supported actuating discs for said tumbler discs, direct operating connections between certain of the actuating discs and tumbler discs, indirect connections between certain other actuating discs and tumbler discs and adapted to be rendered operative only by operation of the actuating and tumbler discs in a prearranged order, and a lock controlling bar adapted to enter the notches in the tumbler discs when the same are brought into pre-determined relation.

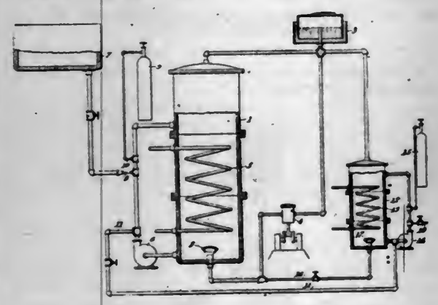
1,456,958. MEAT MOLD. OSCAR M. WOLFF, Chicago, Ill., assignor to B. B. Hanak Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 12, 1919. Serial No. 344,438. 5 Claims. (Cl. 100—75.)

1. A device for molding and cooking meats comprising a casing, a cover slidable therein, and provided with a rack, a bolt mounted for movement in a direction parallel to that of the cover and carrying a pawl to engage



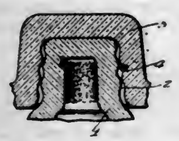
said rack, and a spring operating upon said bolt adapted to receive the predetermined pressure upon said pawl.

1,456,959. PROCESS OF MAKING CHLORHYDRINS. CHARLES O. YOUNG, Elmhurst, N. Y., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed May 5, 1922. Serial No. 558,830. 6 Claims. (Cl. 260—157.)



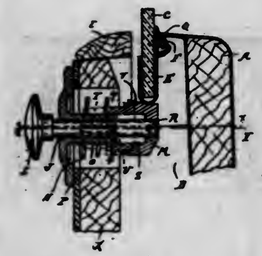
1. Process of making chlorhydrins from olefines, comprising reacting with the hydrocarbon upon a solution containing free hypochlorous acid in amount not exceeding 0.09% and a hypochlorite, thereby preparing chlorhydrin substantially free from ethylene or propylene chloride; setting free hypochlorous acid from the residual hypochlorite; and reacting thereon with a further quantity of hydrocarbon.

1,456,960. JOINT FOR ARTICLES OF CERAMIC AND SIMILAR MATERIALS AND METHOD OF PRODUCING SAME. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Original application filed Nov. 17, 1919, Serial No. 338,534. Divided and this application filed Mar. 31, 1922. Serial No. 548,331. 13 Claims. (Cl. 18—47.5.)



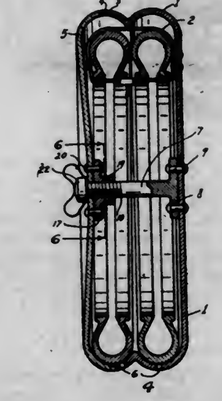
1. In combination, a plurality of ceramic bodies having connection with one another at a plurality of points of limited extent, said bodies being fused to one another at their points of connection to provide a yielding joint.

1,456,961. VEHICLE WINDOW. ANDREW BACHLE, Detroit, Mich. Filed May 29, 1922. Serial No. 564,543. 4 Claims. (Cl. 296—48.)



1. In a device of the character described, the combination with a vertically slidable window member and a frame in which said member is mounted, of a slide bearing carried by said frame, a plunger mounted in said slide bearing transversely of the window member and projecting from said bearing at the interior side of the frame, a latch head carried by said plunger and movable thereby into the path of the window member in the raised position of the latter to maintain said position, said head having a portion slidably embracing said slide bearing, means engaging the latch head with the slide bearing to prevent relative rotation, and a spring urging the plunger toward the window member.

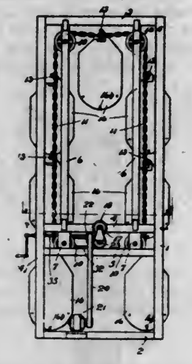
1,456,962. SPARE-TIRE CONTAINER. COSTON S. BAKER, Chicago, Ill. Filed Aug. 15, 1921. Serial No. 492,389. 8 Claims. (Cl. 224—29.)



1. A protective tire casing having a post mounted therein; a cover mounted on said post; and locking means disposed within said post and adapted to engage said cover to prevent the removal thereof.

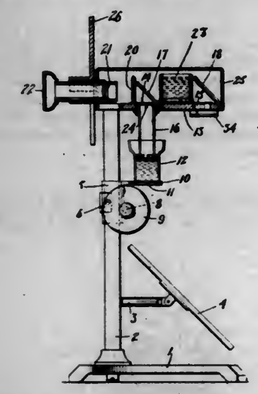
1,456,963. ENDLESS-CARRIER GARMENT-SUPPORTING STRUCTURE. JOHN THOMAS BATTS, Grand Rapids, Mich. Filed July 19, 1920. Serial No. 397,195. 3 Claims. (Cl. 211—20.)

1. In combination, a supporting frame having spaced apart sides, an endless chain mounted on each side of the frame, tubular rods disposed in spaced apart relation between the chains, a plug inserted in each end of each rod, a metal clip bent upon itself around certain of the



links of the chain at the ends of the rods, and securing means passing through the ends of the clips and into the plugs in the ends of the rods.

1,456,964. COMBINED COLORIMETER NEPHELOMETER. JOSEPH C. BOCK, Brooklyn, and STANLEY R. BENEDICT, New York, N. Y. Filed June 26, 1918. Serial No. 241,937. 12 Claims. (Cl. 88—14.)

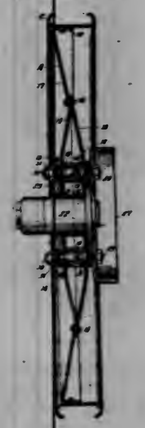


1. A stand carrying a cup and a flat bottom plunger, a mirror above the plunger for reflecting rays from the plunger horizontally, a diaphragm adjacent said mirror having a portion of its opening outside the rays from said plunger mirror, a rectangular cup for a standard solution, means for supporting the rectangular cup located in line with the portion of said diaphragm not covered by said plunger mirror, a second mirror beyond said first mirror for reflecting rays through said diaphragm parallel to the rays reflecting from the cup and plunger, and an eye piece for receiving the rays from both mirrors.

1,456,965. DISK WHEEL. ANDREW BENSON, Sterling, Ill. Filed June 28, 1920. Serial No. 392,340. 2 Claims. (Cl. 301—63.)

1. As an article of manufacture, a sheet metal wheel of disc type comprising: two discs, one of larger diameter than the other, each disc having a central hub opening and provided with a right angular inturned flange around said opening, the flanges extending in alinement in opposite directions and abutting, the portions of said

discs adjacent said opening being arranged in spaced parallel relation and converging outwardly thereof to the periphery of the smaller disc, the two discs being united around the periphery of the smaller disc, the larger disc being adapted to be provided with a rim; a perforated hub plate abutting the outer face of the parallel portion of one of said discs; a hub member extending



through said hub opening and through the perforation in said plate, and provided with a flange abutting the outer face of the parallel portion of the other disc, the periphery of said hub abutting the alined inturned flanges of said discs; and securing means for clamping said discs between the hub plate and hub flange with the inturned right angular flanges of said discs in abutting relation.

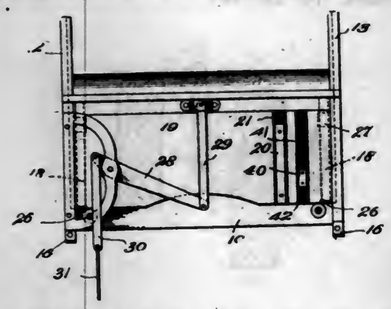
1,456,966. RESILIENT TIRE. ANDREW BENSON, Sterling, Ill. Filed Nov. 1, 1920. Serial No. 420,895. 5 Claims. (Cl. 152—6).



2. A continuous, annular, self-clinching, resilient tire adapted for application to a wheel provided with a rim of appreciable transverse and radial dimensions in cross section, said tire comprising a main exterior portion of generally semicircular cross section and annular, inwardly extending side flanges normally converged, the inner faces of said main portion and said flanges having a fabric reinforcing lining imbedded therein, portions of said fabric lining being also extended around the free edges of said flanges to the exterior faces thereof to thereby bind said free edges and prevent tearing thereof.

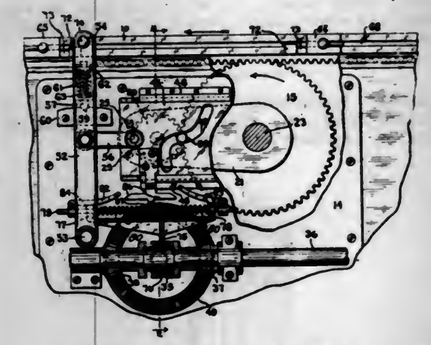
1,456,967. SIGNAL FOR AUTOMOBILES. CHARLES C. BIELITZ, Brooklyn, N. Y. Filed Oct. 22, 1921. Serial No. 509,639. 4 Claims. (Cl. 116—44.)

1. A signal for the purpose described comprising two parallel slidable plates, means for raising one of them, a temporary connection between said plates adapted to cause one to lift the other and means adapted to come



into play when both plates are partly raised for disestablishing said temporary connection.

1,456,968. MACHINE-TABLE-REVERSING MECHANISM. GREGORY BROWN and ALBERT TURNER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 29, 1921. Serial No. 481,178. 14 Claims. (Cl. 74—98.)



1. A driving and reversing mechanism for machine tool tables comprising a driver and a driven member in peripheral rolling contact and operatively connected with the table, means to move the driver uniformly and traverse the table at a normal rate for an indefinite period and mechanism effective at the period of reversal to impress upon the driver a secondary movement peripherally around the driven member which accelerates its driving action and gradually starts the table into motion.

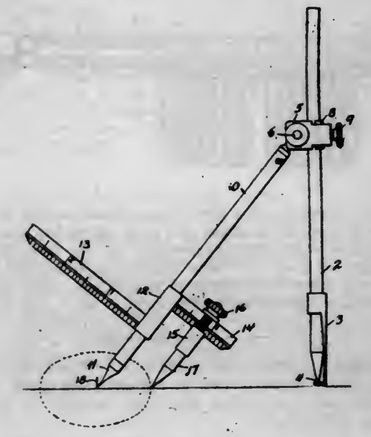
1,456,969. PROCESS FOR THE MANUFACTURE OF AROMATIC AMINO COMPOUNDS. OLIVER W. BROWN and CLYDE O. HENKE, Bloomington, Ind. Filed June 5, 1922. Serial No. 566,144. 16 Claims. (Cl. 260—130.5.)

1. The process of producing aromatic amino compounds, which consists in subjecting an aromatic nitro compound in the gaseous state and mixed with hydrogen-containing gas to the action of a catalyst containing a compound of tin.

1,456,970. COMPASS ELLIPSOGRAPH. JOHN A. CALDWELL, Vancouver, British Columbia, Canada. Filed Oct. 20, 1921. Serial No. 509,172. 4 Claims. (Cl. 33—30.)

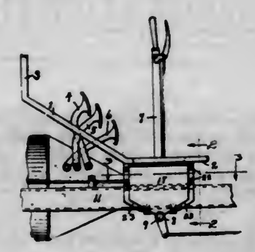
1. A compass ellipsograph, comprising a leg, a sleeve adjustable along said leg, means for clamping said sleeve

in adjusted position on said leg, a second leg pivotally connected to said sleeve, a second sleeve pivotally and slidably mounted on said second leg, graduated arms



extending radially from and in opposite directions on said second sleeve, a marking device adapted to be slidably mounted on either of said arms, and means for clamping said device to either arm.

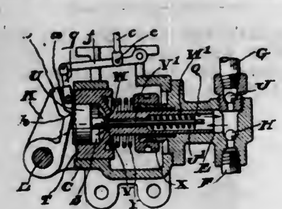
1,456,971. DRAFT PREVENTER. NATHEN K. CAPLAN, Detroit, Mich. Filed June 29, 1921. Serial No. 481,257. 3 Claims. (Cl. 74—81.)



1. A draft preventer comprising a two part casing extending from the floor of an automobile around a control lever, a vehicle frame member constituting a portion of the casing, one of the parts also attaching to a portion of the frame of the vehicle and the other part fitting against said frame and against the hub of the control lever and being of sufficient size to permit free operation of the control lever.

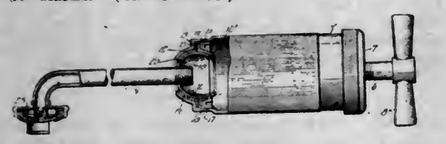
1,456,972. GOVERNING FUEL PUMP. ADOLPH F. CHRISTMAS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 15, 1920. Serial No. 410,461. 4 Claims. (Cl. 123—140.)

1. In a fuel pump for internal combustion engines, a plunger adapted to reciprocate within a cylinder to force motive fluid from a source of supply into a combustion chamber, means for actuating said plunger, a movable stop within the plunger normally held against a bearing on the plunger, means operatively connected to the plunger actuating means for permitting relative movement between the plunger and the stop, a closed chamber within the pump plunger controlled by said stop for receiving and returning fuel from and to the plunger cylinder, and means controlled by a governor and located in operative engaging relation to said plunger actuating



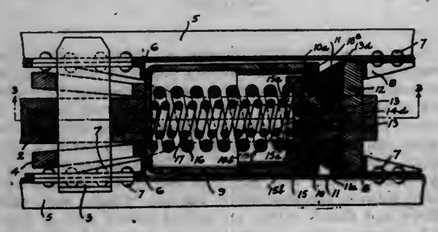
means for varying the opening of said chamber to vary the length of time during which fuel is admitted to the combustion chamber without by-passing fuel back to the supply pipe.

1,456,973. LUBRICANT COMPRESSOR. NORMAN W. CUMMINS, Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 2, 1921. Serial No. 441,743. 19 Claims. (Cl. 184—105.)



1. A lubricant compressor comprising a lubricant receptacle, a rigid discharge conduit having one end connected to said lubricant receptacle by a universally flexible joint, and other end of said conduit being bent at an angle thereto, and having a coupling member comprising a cap rigidly secured to said last-mentioned end, a collar threaded onto the open end of said cap and having an in-turned flange, a cup surrounding the open end of said conduit and having an outwardly convexed bottom, a gasket conforming to the bottom of said cup and having its edges confined between said flange and the bottom of said cup, said cup and gasket being provided with centrally disposed apertures communicating with said conduit, the last-mentioned end of said conduit and the bottom of said cup being provided with apertures for transmitting the pressure of the lubricant to the inner side of said gasket, and a bifurcated extension projecting from said collar transversely of said conduit, and in spaced relation to said gasket.

1,456,974. FRICTION DRAFT RIGGING. GEORGE BINET DOREY, Montreal, Quebec, Canada, assignor to William H. Miner, Chazy, N. Y. Filed Mar. 17, 1922. Serial No. 544,458. 11 Claims. (Cl. 213—26.)



1. In a friction draft rigging, the combination with a casing having beveled walls of friction mechanism disposed therein, the said mechanism including friction

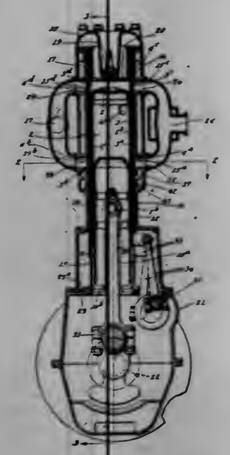
shoes and transversely movable wedge blocks, such transverse movement operating to force the friction shoes outwardly in a direction at right angles to the movement of the wedge blocks.

1,456,975. CRATE FOR LOADING AND UNLOADING BRICK AND LIKE MATERIALS. HOLLISTER G. FERGUS, Chicago, Ill. Filed Feb. 27, 1920. Serial No. 361,796. 5 Claims. (Cl. 220—41.)



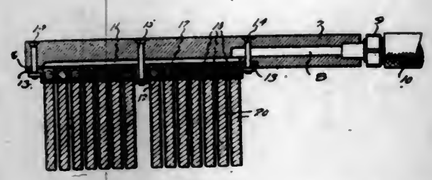
4. A transfer crate of the character described, comprising a rectangular box having vertical side walls and vertical end walls extending below the lower edges of said side walls, angle-iron strips riveted to the extensions of said end walls, a pair of rods disposed parallel with and below the lower edges of said side walls on the outer sides of the latter and at their ends journaled in said angle-iron strips, and a flat bottom plate movable edgewise to and from a position of rest on said rods.

1,456,976. INTERNAL-COMBUSTION ENGINE. HOWARD F. GAWNE, Euclid Village, Ohio. Filed May 8, 1922. Serial No. 559,342. 10 Claims. (Cl. 123—63.)



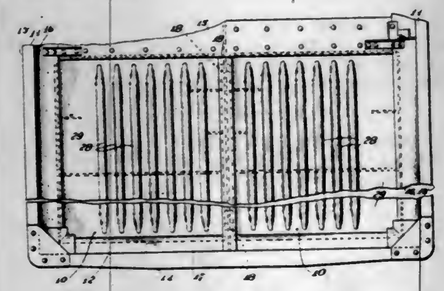
1. In a double acting internal combustion engine, the combination of a cylinder having inlet and exhaust ports at each end thereof, a fixed head projecting into one end of the cylinder and spaced from the wall thereof, a hollow piston in the cylinder, fitting around and reciprocating on said fixed head, a fixed sleeve between the piston and the cylinder wall, an inner sleeve valve between the piston and the fixed sleeve, an outer sleeve valve between the fixed sleeve and the cylinder wall, said sleeve and sleeve valves all having spaced sets of inlet and exhaust ports adapted to be registered with the cylinder ports, and the piston having inlet and exhaust slots registering with the said ports, and means to operate said valves.

1,456,977. FOUNTAIN BRUSH. BERNHARD D. GEIB, Cleveland, Ohio. Filed May 24, 1922. Serial No. 563,293. 3 Claims. (Cl. 15—127.)



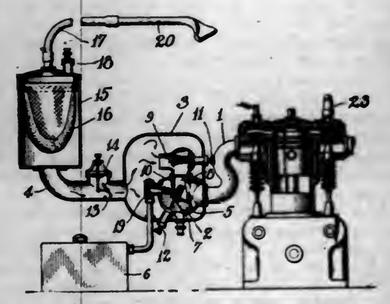
1. A fountain brush comprising a head having a water passage therein, a hollow face plate secured to the head, said face plate having openings in the front thereof and spaced cross partitions behind said front, and brush material extending through said openings, with loops in the spaces between said partitions.

1,456,978. DUMP CAR. GARTH G. GILPIN, Riverside, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Nov. 26, 1919. Serial No. 340,907. 6 Claims. (Cl. 105—244.)



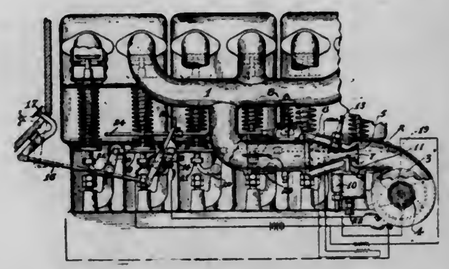
1. A hinged door for a railway dump car, comprising a cast metal panel formed with outturned rigidifying flanges cast integrally therewith, hinge elements cast to said flanges and corrugations cast therein which terminates within the panel.

1,456,979. INTERNAL-COMBUSTION-ENGINE SYSTEM. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1915, Serial No. 19,610. Renewed June 11, 1920. Serial No. 388,348. 9 Claims. (Cl. 123—198.)



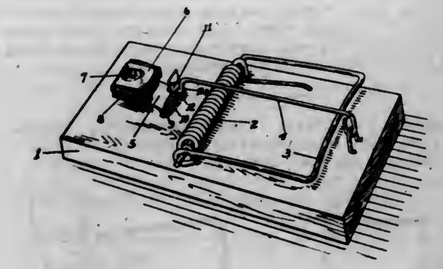
1. A vacuum system comprising an internal combustion engine having a suction operated carburetor, a vacuum pipe connected to the intake of said carburetor, means for preventing disturbance in the operation of the carburetor by variation of the vacuum in said vacuum pipe and an automatic vacuum-operated throttle in said vacuum pipe.

1,456,980. ENGINE PREHEATER. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed Feb. 14, 1918, Serial No. 217,066. Renewed July 20, 1921. Serial No. 486,188. 11 Claims. (Cl. 123—179.)



1. The combination with an internal combustion engine of means for coincidently opening its exhaust and intake valves and means for forcing a heating medium through the path through the engine thereby provided.

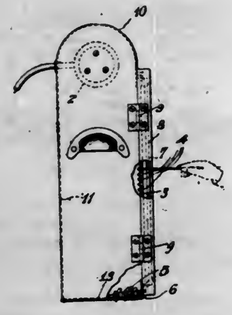
1,456,981. RODENT TRAP. WILLIAM HENRY GOSS, Hammonton, Calif. Filed Nov. 23, 1921. Serial No. 517,184. 3 Claims. (Cl. 43—81.)



1. A rodent trap including a spring controlled trap bar, a lever adapted to bear against and hold the bar against movement when the spring is in tension, a bait retaining treadle pivoted for vertical movement beyond the lever, a lip on the treadle above the level thereof and projecting beyond the pivotal connection thereof toward the lever, the end of the latter being adapted to be contacted with said lip, and an ear on the treadle to one side of and above the lip and under which the said end of the lever may then be slid to set the trap.

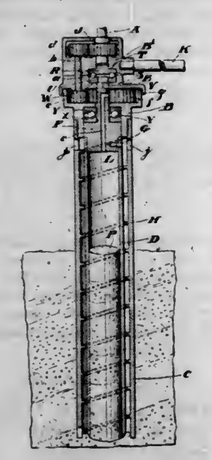
1,456,982. PERMUTATION ILLUMINATED SIGN. LOUIS A. GRAHAM, Chicago, Ill. Filed Mar. 3, 1922. Serial No. 540,928. 8 Claims. (Cl. 40—28.)

4. In an illuminated sign, a light controlling wall having an area of closely related light releasing perforations distributed thereover, and light obstructing closures removably and replaceably adapted to said perforations; said closures retaining their positions in said perforations by fitting therein when in place and being of no greater transverse dimension than said perforations



at any portion of their length so that they are adapted to be passed entirely through the perforations when displaced therefrom.

1,456,983. SOIL-CORING TOOL. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 2, 1921. Serial No. 512,239. 9 Claims. (Cl. 255—72.)

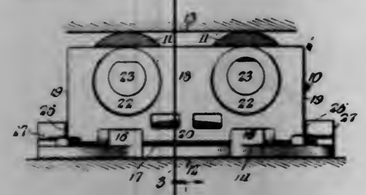


1. A soil coring tool, comprising a rotatable spindle, an outer cutting bit connected to be rotated by said spindle, a relatively non-rotatable head piece within the upper end of the bit supported from a stationary portion of the rotating mechanism, and an inner core barrel connected to said head piece, which descends without rotating and encloses a core cut by the rotating bit.

1,456,984. ANTIFRICTION BEARING. CHARLES D. JENKS and HUBERT M. PERRY, Chicago, Ill., assignors, by mesne assignments, to Sophie L. Woods, Chicago, Ill. Filed Mar. 15, 1915. Serial No. 14,329. 7 Claims. (Cl. 64—64.)

1. In an anti-friction side bearing, a bearing member, a roller carrier mounted on said bearing member, the said roller carrier and the said bearing member having opposed, relatively divergent surfaces adapted to pro-

vide a free rocking movement of the roller carrier on the bearing member, and means connecting said roller



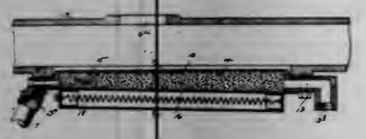
carrier and said bearing member adapted to hold them in cooperative relation but permitting a free rocking movement of the carrier upon the bearing member.

1,456,985. NAILING CONCRETE. JOHN E. KLEIST, New Rochelle, N. Y. Filed Nov. 14, 1922. Serial No. 600,960. 1 Claim. (Cl. 106—24.)

A nailing concrete mixture for structural slabs comprising cement, sand, asbestos fiber and pulverized slate in approximate proportions as follows:

Cement	188 lbs.	2 cu. ft.
Sand	360 lbs.	4 cu. ft.
Asbestos	75 lbs.	1¼ cu. ft.
Pulverized slate	25 lbs.	⅜ cu. ft.

1,456,986. GAS GENERATOR FOR INTERNAL-COMBUSTION ENGINES. NICOLAS LEISTEN and CHARLES SENN, Detroit, Mich. Filed Feb. 20, 1920. Serial No. 360,185. 5 Claims. (Cl. 48—103.)



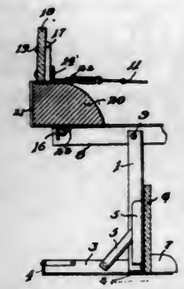
4. In a gas generator for internal combustion engines, the combination with an engine exhaust manifold, of a casing forming a part of said manifold, and having a liquid intake and a gas outlet, means within said casing for expediting a transfer of heat from the casing to its fluid contents, a closure for said casing, and an electric heater carried by said closure.

1,456,987. HAMMER. GEORGE P. LUCAS, Jersey City, N. J. Filed Jan. 4, 1923. Serial No. 610,628. 3 Claims. (Cl. 83—11.)



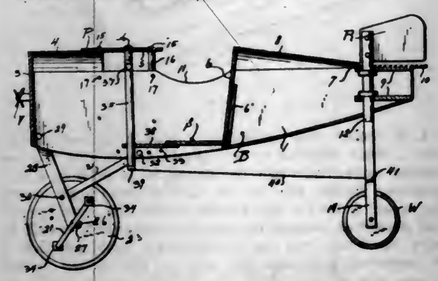
1. A hammer for a centrifugal device comprising an arm provided adjacent one end thereof with an opening for pivotal suspension, said arm extending at one of its lateral faces substantially rectilinearly for its entire length, the opposite end of said arm being cut away at an acute angle and provided with a dove-tail groove, and a removable head formed of material of greater refractory character than the material of said arm, said head having at one end thereof a dove-tail projection extending substantially the full length of said opposite end of said arm constructed to be received within said dove-tail groove of said arm, said head further including a projection extending laterally of said arm when said head is assembled on said arm and in face to face engagement with said lateral longitudinally extending face of said arm.

1,456,988. FOLDING BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed July 12, 1920. Serial No. 395,601. 4 Claims. (Cl. 5—37.)



1. In combination with a suitable support, a bed frame comprising side bars pivotally mounted on the support between their ends, a cross piece connecting the outer ends of said side bars, a pair of blocks secured to the inner ends of the side bars and each formed with a seat, a cross piece secured to the seats on both blocks, a mattress supporting fabric connecting the cross pieces, a second cross piece connecting the inner ends of the side bars below the other cross piece at the inner ends of the side bars, a counterweight supported by said second cross piece under the other of said cross pieces, and connecting means between the cross pieces having hooks engaging the forward edges of both cross pieces and assisting in supporting said counterweight upon the movement of the bed frame to upright position.

1,456,989. VEHICLE. LESTER W. MALLORY, Junction City, Oreg. Filed Dec. 14, 1921. Serial No. 522,356. 2 Claims. (Cl. 208—42.)



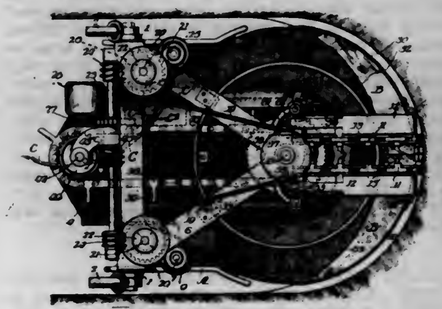
1. A vehicle of the class described comprising a body having a seat therein adjacent the bottom of the body, propelling means for the body, a plane disposed across and extending beyond opposite sides of the body, a steering rod depending from and in swivel connection with the plane, a member extending outwardly from the seat, said steering rod being loosely disposed through said member, a steering post rotatably supported by one end portion of the body, a ground engaging member carried by the post, a cross head carried by the lower portion of the steering rod, an operative connection between the cross head and the steering post whereby the steering post is turned upon rotating the steering rod, and means carried by the steering rod below the plane for rotating the steering rod.

1,456,990. CLASP. JOSEPH MONTGOMERY, West New York, N. J. Filed Oct. 6, 1921. Serial No. 505,772. 5 Claims. (Cl. 24—259.)



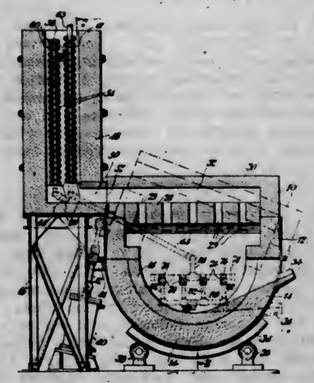
5. A clasp comprising two arms one of which has a bent-over portion extending longitudinally thereof and provided with a floating edge to provide a resilient flange bent transversely of the clasp and extending substantially the entire length of the clasp.

1,456,991. MINING MACHINE. EDMUND C. MORGAN, New York, N. Y. Filed Sept. 5, 1914, Serial No. 860,370. Renewed Dec. 11, 1919. Serial No. 344,111. 128 Claims. (Cl. 262—5.)



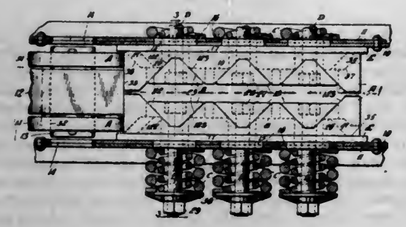
1. The combination of a pair of rotary cutting mechanisms having a common center of rotation and movable toward each other for cutting a section from the wall of a mine, and means for breaking the section into smaller sections and for returning the cutting mechanisms.

1,456,992. FURNACE. PAUL J. NUTTING, Watertown, N. Y., and HENRY W. HAYWARD, Mount Gilead, N. C., assignors to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed June 1, 1921. Serial No. 474,168. 11 Claims. (Cl. 263—16.)



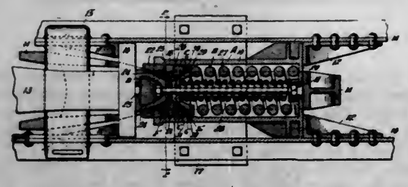
1. In an apparatus of the class described, a tiltable furnace formed to provide a flue in its upper portion and having a spout at its front end through which material may be introduced into it and discharged from it, a recuperator at the rear end of the furnace arranged to communicate with said flue in one position of the furnace, means for conducting pre-heated air from the recuperator to the furnace, and means for tilting the furnace between a position in which the flue communicates with the recuperator and a position such as to cause the contents of the furnace to be discharged through said spout.

1,456,993. FRICTION DRAFT RIGGING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 16, 1920. Serial No. 358,991. 9 Claims. (Cl. 213—39.)



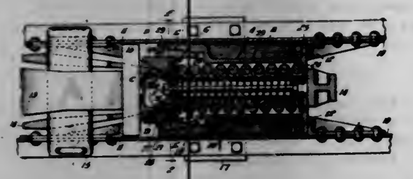
1. In a friction draft rigging, the combination with draft sills and a drawbar; of a laterally movable element, having a pair of oppositely extended wedge faces, said element being located between the draft sills; a spring disposed on the outer side of one of the draft sills to yieldingly resist lateral movement of said element; a heavy friction plate mounted on the inner side of said draft sill, on the outer side of which said spring is disposed, and a member longitudinally movable in both directions from its normal position and located between said element and said friction plate, said member being provided on one side with a pair of oppositely extending wedge surfaces cooperable with the wedge faces of said element for effecting lateral movement of the latter in both buff and draft, and on the other side with a friction face co-operating with said friction plate.

1,456,994. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed July 12, 1920. Serial No. 395,455. 3 Claims. (Cl. 213—32.)



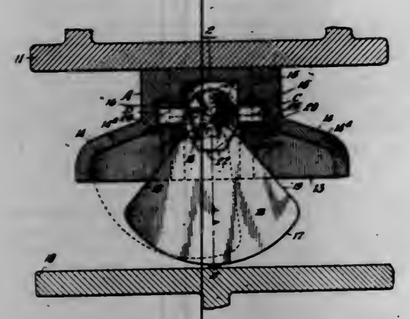
1. In a friction shock absorbing mechanism, the combination with the member having longitudinally extending friction surfaces; of friction shoes slidable on and cooperable with said friction surfaces, said shoes having inwardly converging faces at their inner ends; wedge acting means for pressing said shoes into frictional contact with said member; a spring resistance; a follower interposed between said spring resistance and the shoes, said follower, on its side adjacent the shoes having bearing seats; and roller anti-friction means interposed between said follower bearing seats and the converging inner faces of said shoes.

1,456,995. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,665. 7 Claims. (Cl. 213—34.)



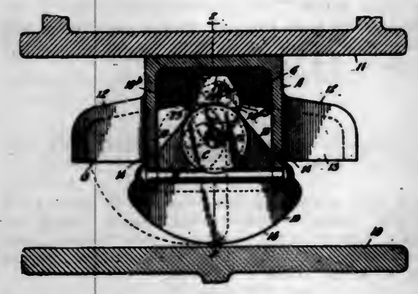
1. In a friction shock absorbing mechanism, the combination with a shell having inwardly converging interior surfaces; of separate auxiliary friction shell elements mounted on said surfaces and adapted for limited movement with respect thereto, said elements providing main shell friction surfaces; friction shoes slidable on said main shell friction surfaces; for an amount substantially more than half of the total travel of the mechanism; spreading means cooperable with said shoes; a spring resistance; and means for positively insuring movement of said shell elements inwardly of the shell during the last portion only of the compression stroke.

1,456,996. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 10, 1921. Serial No. 451,237. 5 Claims. (Cl. 64—65.)



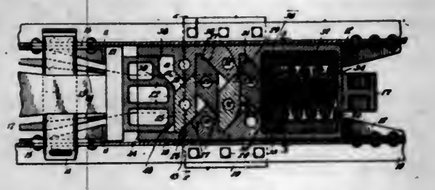
1. In an anti-friction bearing of the character described, adapted to be secured in a depending position on the under side of a bolster or the like, the combination with a retaining member having an upper bearing surface and a fixed supporting means; of an anti-friction rolling element having upper and lower concentric bearing surfaces, the upper bearing surface being arranged to roll upon said bearing surface of the retaining member; co-operating means comprising laterally extending guide lugs on said element and co-acting guide ways in said retaining member, said means being operative in all positions of said element to maintain a predetermined relation therebetween and prevent bodily shifting of the element with respect to the retaining member; and means on said element, distinct from said first named means, fulcrumed on said fixed supporting means on said retaining member above the center of mass of said element, whereby the latter is adapted to return to its normal position, under the influence of gravity, after the removal of the actuating pressure.

1,456,997. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 7, 1921. Serial No. 467,549. 6 Claims. (Cl. 64—65.)



1. In an anti-friction bearing, the combination with a retaining member adapted to be secured to the under side of a body bolster or the like, said member being provided with a downwardly facing bearing surface; of an anti-friction element, having upper and lower rounded bearing surfaces and adapted to roll on said bearing surface of the retaining member, said element being so designed that the center of weight thereof is elevated when rolled to either side of normal position; a roller-track carried by said member; a roller supported on said track; means for supporting said element from a point above its center of weight on said roller; and cooperating means on said member and element arranged to prevent bodily shifting of said element with respect to said member but permitting free rolling movement thereof, said means on said element being independent of said roller.

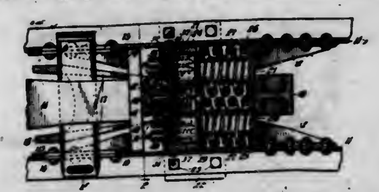
1,456,998. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 8, 1921. Serial No. 499,202. 8 Claims. (Cl. 213—31.)



1. In a friction shock absorbing mechanism for railway cars, the combination with a shell having internal friction faces; of pressure transmitting means; a spring resistance; and transversely arranged friction elements within the shell, said elements being interposed between said means and said spring resistance, and each of said elements being provided at opposite ends with friction faces adapted to co-act with the friction faces of said shell.

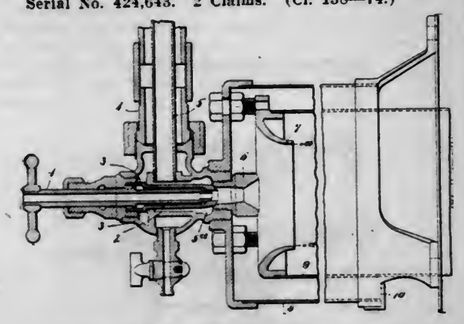
1,456,999. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 8, 1921. Serial No. 499,208. 5 Claims. (Cl. 213—26.)

1. In a friction shock absorbing mechanism, in combination, a shell; spring elements; friction plates; wedging elements; and a spring follower, said spring elements, friction plates, wedge elements and spring follower being located within the shell, the spring follower being provided with spaced apart forwardly extended wings to receive the wedge elements, the wedge elements comprising a central wedge member and lateral supplemental wedge members, the friction plates comprising intercalated longitudinally movable and longitudinally immovable plates, one of the latter plates being adjacent each of the supplementary wedge members and having an annular wedging face engaging a supplementary wedge



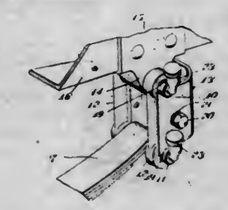
member, the supplementary wedge members moving laterally away from each other upon the spring follower on inward movement of the central wedge member and moving rearwardly with said follower, the said follower being yieldingly held by the spring elements.

1,457,000. HYDROCARBON BURNER. WILLIAM R. PARK, Taunton, Mass.; William R. Park, Jr., executor of said William R. Park, deceased. Filed Nov. 17, 1920. Serial No. 424,643. 2 Claims. (Cl. 158—74.)



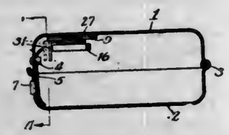
2. A hydrocarbon burner comprising a small combining tube and a relatively large combustion tube collinearly arranged with the discharge end of the combining tube terminating at the intake end of the combustion tube, and an intake ring in the intake end of the combustion tube, proportioned to deliver the entrained air in a direction substantially parallel with the axis of the combining tube, the intake ring curving inwardly from the wall of the combustion chamber so that the discharge end of the ring is substantially parallel with said wall and spaced therefrom.

1,457,001. SHACKLE. ROBERT G. PILKINGTON, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 336,800. 12 Claims. (Cl. 267—54.)



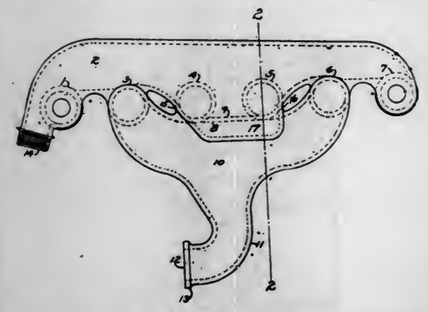
1. A shackle comprising a pair of links formed with registering perforations, weight carrying pins adapted to be inserted in said perforations, said pins each being formed with flat surfaces, a U-shaped retaining member associated with said links, certain edges of the arms of said member bearing against the respective flat surfaces of the pins, and means to secure said member against movement relative to said links, for the purpose described.

1,457,002. RECEPTACLE AND LOCK THEREFOR. GEORGE H. REIMER, Fulton, Ill., assignor to Patent Novelty Company, Fulton, Ill., a Corporation of Illinois. Filed Mar. 11, 1922. Serial No. 542,908. 5 Claims. (Cl. 70—53.)



1. In permutation lock mechanism, the combination of a top wall with an opening therein, a plate secured to the inner side of said wall, to close said opening, with indicating means on the outer surface of said plate, a rotatable member forming a controller on the dial thus formed by the outer surface of said plate, and inclosed devices controlled by said rotatable member, said opening being countersunk and said rotatable member being flush with the outer surface of said wall, in combination with other walls combining with said first mentioned wall to form a box, and an automatic latch for said box controlled by said devices, adapted for inward movement toward the axis of said member to unlock the box, together with a push button on the front side of the box and independent of said controller and adapted for operating said latch to open the box.

1,457,003. MANIFOLD FOR GASOLINE ENGINES. PHILIP SAMUELS, Lowell, Mass. Filed June 25, 1920. Serial No. 391,745. 1 Claim. (Cl. 123—122.)

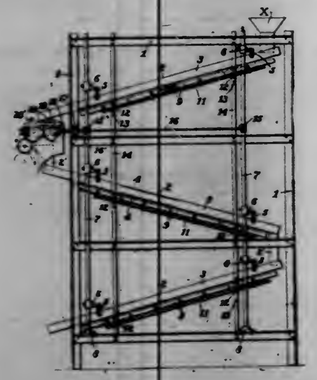


The combination with an explosive engine having an exhaust manifold wholly enclosed, of a Y-shaped intake manifold mounted adjacent to said exhaust manifold and having an opening in the crotch of the Y so positioned that a portion of the exhaust manifold forms a wall for the closure of the opening in and extends to form an offset chamber over the intake manifold.

1,457,004. EDIBLE CEREAL PRODUCT AND PROCESS OF MAKING. GEORGE H. SAUNDERS, Akron, Ohio, assignor of one-half to Addison T. Saunders, Chicopee, Mass. Filed Aug. 26, 1921. Serial No. 495,467. 7 Claims. (Cl. 99—11.)

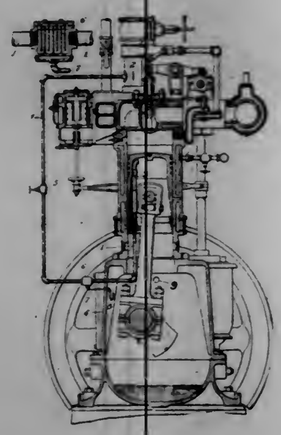
2. As a new article of manufacture, an edible product consisting of a cereal grain having a dry parched surface portion, and its interior body portion steam cooked, said grain being slightly expanded and with its parched por-

tion mechanically cracked, said grain being slightly flattened from its original form.



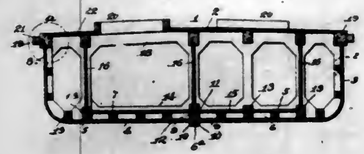
4. The herein described process, consisting in soaking the grain in water, subjecting the same to high heat to cause expansion and quick conversion of the starch before a drying out action of the interior of the grain can take place, and also to cause dry parching of the surface of the grain, mechanically cracking the parched shell and then subjecting the grain to further heat to re-expand and dry it, substantially as described.

1,457,005. COOLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JAMES B. SIMLER, Cleveland, Ohio, assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,177. 2 Claims. (Cl. 123—171.)



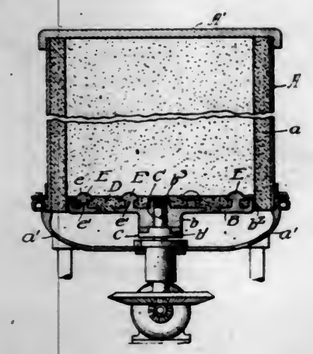
1. In an internal combustion engine, the combination of a crank case; a cylinder; a reciprocating piston in said cylinder and having a hollow chamber communicating with said crank case; and means extending into said chamber for establishing communication between the opposite sides of the piston to directly displace the gaseous content of said chamber by exhaustion; the interior of said crank case being directly connected with the atmosphere whereby a flow of atmospheric air is induced and caused to compensate for such displacement.

1,457,006. REENFORCED CONCRETE VESSEL. JOHN T. SIMPSON, Newark, N. J. Filed Jan. 2, 1918. Serial No. 209,817. 6 Claims. (Cl. 114—65.)



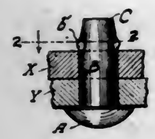
1. A vessel comprising field molded reenforced concrete field cast elements, and shop cast reenforced concrete plates of relatively small size, said members and plates being united to form a monolithic structure said plates forming the skin surface of the vessel, the exterior keel of the vessel being formed on the shop cast plates.

1,457,007. PEELING MACHINE. CHARLES F. SMITH, Chicago, Ill. Filed Apr. 14, 1923. Serial No. 631,997. 10 Claims. (Cl. 146—49.)



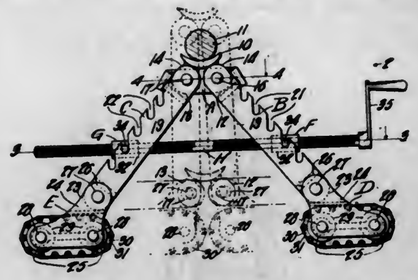
1. A peeling machine comprising a receptacle for articles to be peeled and a revoluble disk having an abrasive surface and having a relatively non-abrasive part extending above said abrasive surface and adapted to agitate the articles to be peeled.

1,457,008. SELF-ANCHORING RIVET. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,994. 14 Claims. (Cl. 85—37.)



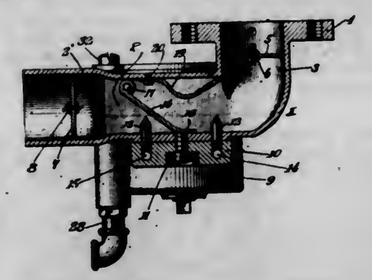
1. A rivet provided with means for preliminary anchoring or holding it in position pending the riveting operation, such means comprising an enlargement on the shank spaced from the head.

1,457,009. LIFTING APPARATUS. ADOLPH E. STARIK, Lakewood, Ohio. Filed Dec. 15, 1921. Serial No. 522,480. 10 Claims. (Cl. 254—122.)



1. An apparatus of the character described, comprising a head, a pair of legs pivoted on said head, a shoe pivoted on the lower end of each of said legs and provided with movable ground engaging means, and means for moving said legs on said pivot.

1,457,010. CARBURETOR. FREDERICK R. SUNDERMAN, Detroit, Mich., assignor to Sunderman Corporation, Newburgh, N. Y., a Corporation of New York. Filed Jan. 17, 1917. Serial No. 142,799. 3 Claims. (Cl. 261—41.)

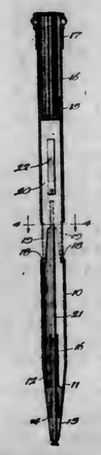


1. In a carburetor, the combination of a substantially rectangular horizontal passageway, a hydrocarbon nozzle discharging within the passageway at a point substantially above the lower wall thereof, a second nozzle discharging within the passageway at a point further inward than the first, a valve plate in the passageway hinged at the upper wall of the passageway and movable upwardly and inwardly and adapted to be acted upon by suction to be swung upwardly and inwardly by and according to the suction of an engine, said plate, when in normal position and when slightly lifted from normal position, extending inclined downwardly and inwardly from its hinge across the passageway toward the second nozzle and beyond the first to such a distance that its free end is sufficiently below the discharge opening of said first nozzle to substantially check the discharge of said first nozzle while the suction on the second nozzle is increased by said plate due to the latter's substantial throttling action on the air, whereby strong suction on the inner nozzle is attained at slow speeds and the discharge of the outer nozzle substantially retarded until the suction on the plate has been increased as at higher speeds.

2. In a carburetor, the combination of a substantially rectangular horizontal passageway, a hydrocarbon nozzle discharging within the passageway at a point substantially above the lower wall thereof, a second nozzle discharging within the passageway at a point further inward than the first, a valve plate in the passageway hinged at the upper wall of the passageway and movable upwardly and inwardly and adapted to be acted upon by suction to be swung upwardly and inwardly by and according to the suction of an engine, said plate, when in normal position, extending inclined downwardly and inwardly from its hinge across the passageway toward the second or inner nozzle and to the lower wall of the passageway and substantially closing the passageway to prevent said first or outer nozzle being brought into operation, and to throw the full suction of the engine on the second or inner nozzle by substantially excluding the admission of air.

3. In a carburetor, the combination of a passageway for hydrocarbon fuel, a nozzle discharging within the passageway, an air admission valve plate for controlling the flow of air to the nozzle, said plate hinged at one end to swing within the passageway and adapted to be acted upon by the suction of an engine to be lifted upwardly and inwardly according to the suction, and extending across the passageway a sufficient distance to regulate the supply of air past the nozzle according to the suction, and having its free end bent upwardly from the general direction of the body of the plate, said passageway being provided with an upper surface which is in general convexed and located above the free end of said plate to co-operate with said bent free end.

1,457,011. PENCIL. HORACE H. WELCH, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 1, 1920. Serial No. 407,462. 4 Claims. (Cl. 120—19.)

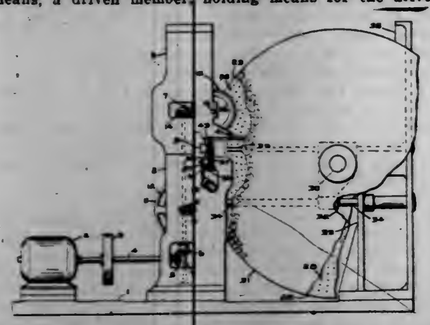


1. A pencil comprising a barrel having a lead receiving tube and tip at one end, the said barrel having diametrically disposed longitudinally extending slots, formed in the sides thereof, the edges of said slots being turned inwardly to form guides, a feed bar slidably mounted in said barrel, and having its edges projecting through said slots between said guides, the said feed bar having a push rod secured thereto slidable in said lead tube, and abutting the end of a lead in said lead tube, and a spring secured to said feed bar and having frictional engagement with the inner walls of said barrel.

1,457,012. MOTION-PICTURE APPARATUS. EDSON G. WHITMORE, Point Place, Ohio, assignor to The Pictures Development Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 27, 1919. Serial No. 273,342. 36 Claims. (Cl. 88—18.8.)

1. A rotary driving member having on opposite sides

thereof guide means, rock arms engaged by the guide means, a driven member, holding means for the driven



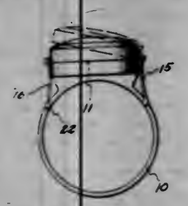
member actuable by one rock arm, and actuating means for the driven member actuable by the other rock arm.

1,457,013. VEHICLE WHEEL. WILLIAM G. WILSON, Bridgeport, Conn. Filed Sept. 25, 1922. Serial No. 590,396. 4 Claims. (Cl. 301—5.)



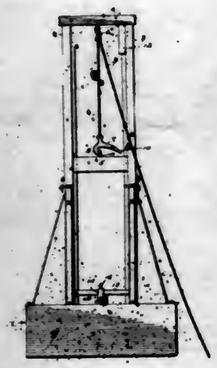
2. In an automobile wheel, a flanged metallic hub having at spaced intervals bolts which connect the flanged portions of the hub, reenforcing serpentine shaped metallic pieces whose inner extremities are anchored to said bolts, caps welded to the outer ends of said pieces, and an internal rubber structure having a hub portion, a tread and continuous ring-like body between the hub and tread, and spokes whose inner ends connect with the hub and whose outer ends merge into the inner circumference of the tread, said rubber structure surrounding said bolts and also surrounding said reenforcing serpentine shaped pieces in the formation of the spokes.

1,457,014. WATCH RING. HENRY ZWEIG and ISIDORE SCHNEIDERMAN, Brooklyn, N. Y., assignors of one-half to Frank Ross and one-half to Benni Bretan, both of Brooklyn, N. Y. Filed Dec. 2, 1922. Serial No. 604,461. 3 Claims. (Cl. 58—88.)



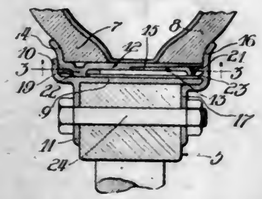
3. A ring having a watch case, a winding stem therefor, a handle hinged to said stem, and side ears on the free end of said handle adapted to engage said ring therebetween to prevent rotation of said handle.

1,457,015. METHOD FOR TESTING BITUMINOUS PAVING MIXTURES. FRANK S. BESSON, Washington, D. C. Filed Aug. 5, 1921. Serial No. 490,172. 3 Claims. (Cl. 265—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A method for testing bituminous paving mixtures consisting in selecting paving specimen of known service value and composition, forming it into a block of predetermined form and weight, subjecting the block to the impact of an element actuated by a body falling through a given distance, recording the number of blows required to cause the element to become imbedded in the block or to pulverize or crack it, similarly treating a like formed block of original mixture and comparing the number and effect of the blows on the latter with those on the first mentioned block to determine the probable service value of the original mixture.

1,457,016. DEMOUNTABLE RIM FOR WHEELS. WILLIAM L. BRANSTOOL, Chicago, Ill. Filed Nov. 13, 1922. Serial No. 600,508. 3 Claims. (Cl. 301—35.)



1. A demountable rim for the purpose specified comprising in combination a pair of telescoping ring members, one of which is provided with an outstanding flange for engagement by the tire base, and is also provided on its inner surface with a circumferential recessed portion establishing a shoulder, the other ring member being adapted to seat into said recessed portion when the two sections are telescoped together, and said member being provided with an outstanding flange adapted to engage the other tire base portion, an inwardly projecting portion on the last mentioned ring member adapted to engage the felly band when in place on the wheel for the purpose of accurately spacing the demountable rim thereon, and a series of hooks for locking the two ring members together, a pivotal mounting for each hook on the inner surface of the first mentioned ring member, comprising a semi-perforation of said ring member extending through the hook and upset to hold the hook in place, a lug on the other ring member suitably positioned for engagement by each of said hooks, and comprising a semi-perforation of said ring member, and a shoe on the base portion of each hook offset with respect to its pivotal point and adapted to engage a part of the felly band when the rim

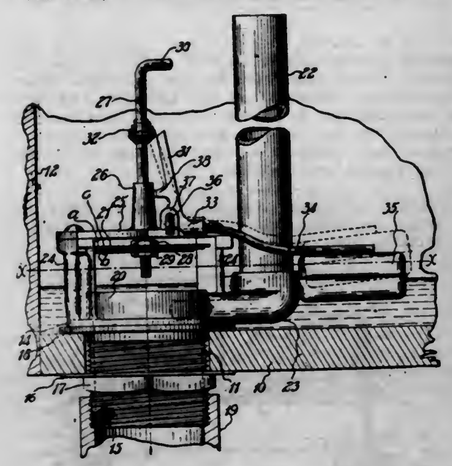
is set thereon to thus prevent turning of the hook when the rim is in place on the wheel, substantially as described.

1,457,017. KEYHOLE GUARD. HARVEY BROWN, Buffalo, N. Y., assignor of one-half to Aloysius H. Schaefer, Buffalo, N. Y. Filed Sept. 15, 1921. Serial No. 500,739. 2 Claims. (Cl. 70—8.)



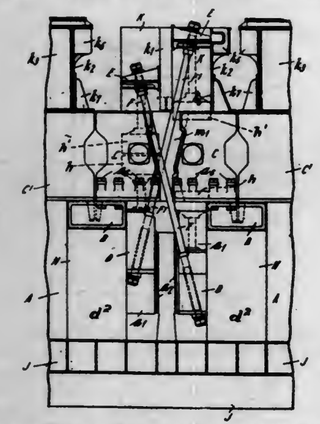
1. A guard for key-holes having escutcheons, comprising a guard portion and integral springy arms at one end of said guard portion having outer free ends and lock prongs extending laterally therefrom in different planes, said prongs being adapted to engage opposite sides of an escutcheon at marginal portions of its key-hole.

1,457,018. OUTLET VALVE FOR WATER-CLOSET TANKS. ALEXANDER A. CARSON, Braintree, Mass. Filed May 2, 1919. Serial No. 294,181. 1 Claim. (Cl. 4—5.)



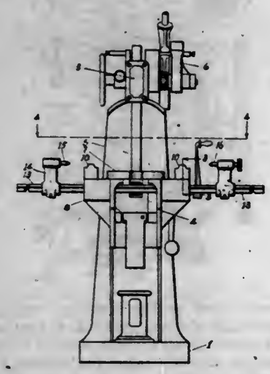
The combination of a tank, an outlet therefrom for supplying water for the siphonic discharge of a water-closet, a valve associated with said outlet and having a central shouldered stem by which it may be bodily raised, a stationary guide for loosely engaging and guiding said stem as the valve is moved toward and away from said outlet, a pivoted latch having only a single abutment face for engaging only said shoulder on the stem and locking said valve in fully open or raised position, said latch having a finger or stop to engage said stationary guide and prevent said latch from bearing against said stem when said valve is closed, and a float connected to said latch to cause the same to engage and release the shoulder on the stem of said valve, said float and latch being rigidly connected and so related, and said float being so located in respect of said outlet, that said latch will not release said valve from its fully open or raised position until after the level of the water in the tank has been lowered to a plane at which the flow of water through said outlet is insufficient to fill the same or to maintain said siphonic discharge, whereby a diminished volume of water is delivered through such outlet to refill the bowl before the valve is released and closed.

1,457,019. INTERNAL-COMBUSTION ENGINE. GEORGE J. CARTER, Bromborough, and LAUCHLAN GRANT MCFARLANE, Liverpool, England. Filed Oct. 22, 1918. Serial No. 259,252. 4 Claims. (Cl. 121—100.)



1. In a multiple cylinder marine type engine, a main cylinder casting including a pair of vertical cylinders, a pair of oppositely moving pistons in each cylinder, a crank shaft beneath said cylinder casting to which the lower pistons are connected, upper and lower pairs of cross heads connected respectively to the upper and lower pistons, upper and lower pairs of guides for said cross heads, two pairs of obliquely crossed rods connecting the upper cross heads of one cylinder with the lower cross heads of the other cylinder respectively, the outer guides for the upper cross heads being removable and the cylinder casting having clearance recesses for the cross rods, said recesses being provided with gaps whereby said crossed rods may be withdrawn laterally without dismantling the working parts.

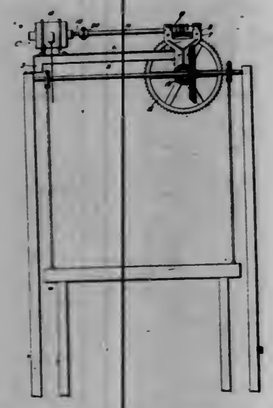
1,457,020. MANDREL AND STRAIGHTENING PRESS. JAMES G. COLLINS, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich. Filed Nov. 6, 1919. Serial No. 336,021. 1 Claim. (Cl. 153—48.)



In a structure of the class described, the combination of a base, a standard, a ram and actuating means therefor, a work table having lateral projections at its sides, such projections having aligned grooves therein in the

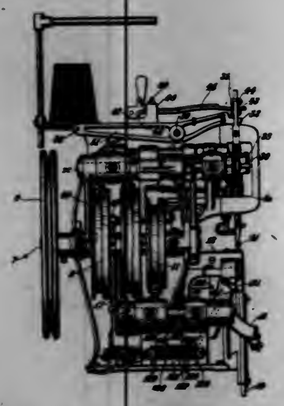
plane of the ram, work supporting blocks adjustable in said grooves, a supporting bar disposed horizontally through the table at the rear of said ram, and arms provided with centering pivots adjustably mounted on said supporting bar.

1,457,021. ELEVATOR HOIST. HAROLD ALTON DAVIS and PAUL SILIS NEWCOMER, Fostoria, Ohio. Filed Apr. 8, 1922. Serial No. 550,880. 1 Claim. (Cl. 74—36.)



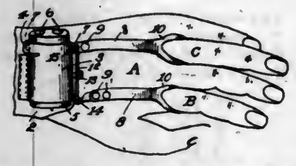
In combination with a beam, substantially Y-shaped brackets mounted thereon and at the opposite sides thereof, a shaft journaled between the upper branches of the brackets and carrying a worm which is located between the branches, a shaft journaled in the lower portions of the brackets and a worm wheel mounted upon the last mentioned shaft and having a peripheral portion meshing with the worm.

1,457,022. SHOE-SEWING MACHINE. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 15, 1918. Serial No. 262,686. 3 Claims. (Cl. 112—41.)



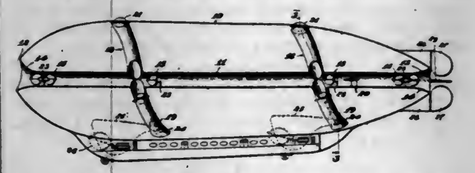
1. In a wax thread sewing machine having a frame and thread handling devices thereon, a heating system, comprising, heating jets for said devices, a gas chest accessibly located on said frame and having a gas connection, gas pipes leading from said chest to said several jets, and valves on said chest adapted to independently control at the chest the admission of gas from said chest to said pipes.

1,457,023. AUTOMOBILE HAND SIGNALING DEVICE. ALAN R. FERGUSSON, Buffalo, N. Y. Filed Oct. 5, 1920. Serial No. 414,927. 10 Claims. (Cl. 177—339.)



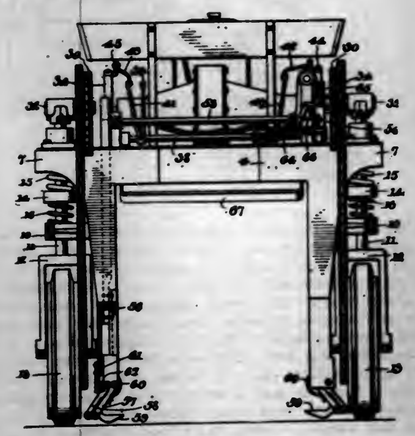
8. In a signaling device, a flexible wrist band, a flexible holder adapted to receive a flashlight having a plurality of lights and a plurality of switches, a tension member attached to said holder and engaging a switch, a lever having a part thereof engaging a switch, a second tension member connected to said lever, said tension members having means for connection with fingers of the hand, whereby upon movement of the hand in a predetermined manner said lights will be actuated.

1,457,024. CONTROL FOR AIRCRAFT AND THE LIKE. HENRY M. FRANZEN, Los Angeles, Calif. Filed June 29, 1920. Serial No. 392,640. 3 Claims. (Cl. 244—10.)



1. In an air-craft, a gas container having an air duct opening at one end thru the wall of the container and leading to and opening thru the rear end thereof, means for inducing a current of air thru said duct, a plurality of stabilizing fins on the rear portion of said container adjacent the duct opening, and a rudder attached to each of said stabilizing fins projecting into the current of air passing thru said duct.

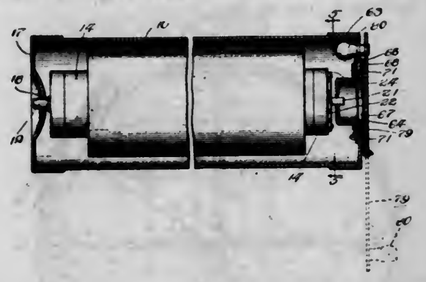
1,457,025. LUMBER CARRIER. CARL F. GERLINGER, Dallas, Oreg. Filed Mar. 30, 1922. Serial No. 548,177. 6 Claims. (Cl. 212—141.)



5. A lumber carrier comprising a frame, a load lifting means mounted therein, means for transmitting power to the load lifting means comprising a clutch, means for moving the clutch to neutral position at a time when the load lifting means has moved to a predetermined extent

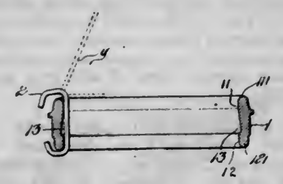
in either direction, a spring mounted to yield if too great a strain is applied to the load lifting means, and means whereby the yielding of the spring throws the clutch to neutral position.

1,457,026. MAP CASE. WILLIAM A. HANSES, Chicago, Ill., assignor to Rand, McNally & Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1922. Serial No. 532,102. 4 Claims. (Cl. 40—85.)



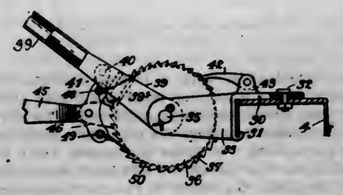
1. In combination with a spring roller, a support comprising a frame, means on the frame for rotatably supporting the pivot pin of the roller which moves with the roller, adjustable means on the frame for supporting the spring holding pin of the roller, and means whereby said last named means may be rotated in either direction for tension adjustment of the spring of the roller.

1,457,027. TWISTER RING. JOHN T. HANTON, Putnam, Conn. Filed Sept. 5, 1922. Serial No. 586,106. 2 Claims. (Cl. 118—59.)



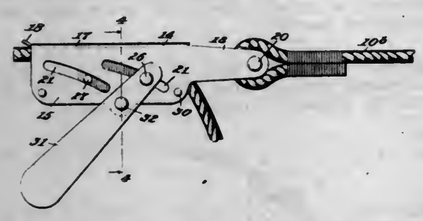
2. A twister ring or the like formed with an interior annular lubricant-containing recess, tapering vertically toward the upper edge of the ring, the said recess having a smooth, continuous wall merging without break or shoulder with a smooth adjoining surface next toward the said edge.

1,457,028. AUTO TABLE. KELLY B. HARVEY, New York, N. Y. Filed Oct. 26, 1921. Serial No. 510,523. 2 Claims. (Cl. 254—88.)



1. The combination with a structural bar having a top plate and a depending flange, of an angle plate bracket for a hoisting device consisting of a flat top plate arranged to extend along the top of said bar, and an upright plate depending from the front longitudinal edge of the top plate which has its lower edge extending rearward and upward to hook around the lower edge of the bar flange with the top plate resting on top of the bar, means for directly securing the top plate to the structural bar, said depending plate being provided with bars extending forward at each end that are arranged to act as journal bearings for a shaft that carries a winding drum and a lever.

1,457,029. LOCKING DEVICE. GRANT HAZLETT and CHARLES H. MITCHELL, Binghamton, N. Y. Filed Mar. 17, 1922. Serial No. 544,676. 4 Claims. (Cl. 24—136.)

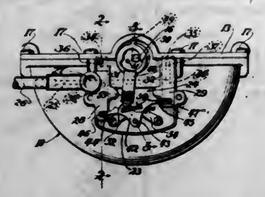


1. In a device of the class described, a housing having a multiplicity of slots in opposite walls thereof, the slots in the same wall being eccentric but of substantially the same curvature, there being a slot in each wall similar to and opposite each slot in the other of said walls, a pressure member within said housing and movable in the slots thereof into and out of contact with the object to be retained.

1,457,030. METHOD OF TREATING SLUDGE ACIDS AND SEPARATED SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and FRANK J. BARTHOLOMEW, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed June 15, 1922. Serial No. 568,629. 15 Claims. (Cl. 23—1.)

14. In the method of treating sludge acids or separated sludge acids, the steps which consist in first internally heating the sludge acid or separated sludge acid to effect concentration thereof to an intermediate strength while retaining the carbon impurities in a state of suspension therein, and in then diluting the same for effecting separation of the impurities and removing the impurities therefrom.

1,457,031. MOTOR FOR WINDSHIELD WIPERS. EDWARD J. HUDSON, Glencoe, Ill. Filed May 11, 1922. Serial No. 560,005. 7 Claims. (Cl. 123—97.)



1. In a device of the class described the combination with an arcuate cylinder, a rock shaft extending across the upper portion thereof, and a piston carried by said rock shaft and working within the cylinder, and there being a suction passage adjacent to said cylinder, of valve mechanism for controlling communication between said suction passage and each end of the cylinder alternately, including a port reaching through the wall of the cylinder to each end thereof, a vertically movable slide valve slidably mounted on the wall of the cylinder adjacent

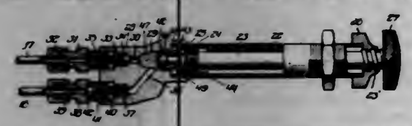
to each said port, the sliding face of each said valve being cut away to provide a recess therein, a balance lever pivotally mounted between the slide valves, an operative connection from each end of the balance lever to the adjacent slide valve, a toggle pin having its upper end pivotally mounted with respect to the cylinder and provided with an opening, an eccentric pin on the rock shaft working in said opening and adapted to engage the sides thereof to swing the toggle pin back and forth, there being a stationary abutment adjacent to the lower end of the toggle pin and immediately above the central portion of the balance lever, and a spring pressed ball in the lower end of the toggle pin adapted to travel over said abutment and into contact with the balance lever alternately at opposite sides of its pivotal point, substantially as described.

1,457,032. BUCKLE. EMIL L. JOHNSON and OLOF LUNDSTEN, Attleboro, Mass. Filed Nov. 12, 1920. Serial No. 423,558. 1 Claim. (Cl. 24—191.)



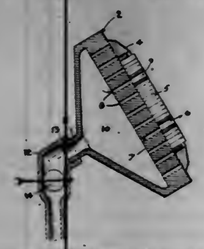
A buckle comprising in combination a clamping member formed of a sheet-metal plate with one edge rolled under into tubular form providing an integral clamping edge, said plate being provided with integral laterally-extending pivot lugs and a body member having portions of its side walls folded inwardly forming stock of a thickness double that of the body and said lugs bearing in both the inward fold and also the body member providing a pivotal mounting in said double side walls.

1,457,033. PRIMING DEVICE. CLARENCE H. JORGENSEN and PETER J. JORGENSEN, Waupaca, Wis., assignors to Jorgensen Mannfacturing Company, Waupaca, Wis., a Corporation of Wisconsin. Filed Feb. 7, 1921. Serial No. 442,923. 2 Claims. (Cl. 103—154.)



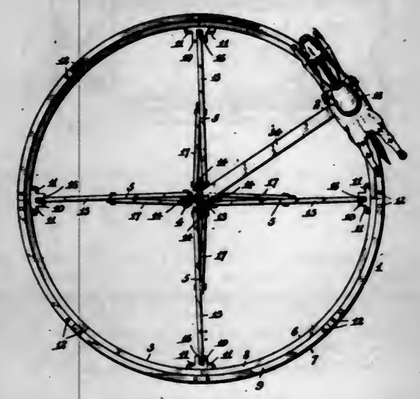
1. In a pump having a fluid passage therein, a piston having a ball headed stud extended therefrom, a valve member having a ball seat engaging the ball head on the stud in such manner as to permit limited play therebetween, the valve member serving to close the fluid passage in one position of the piston.

1,457,034. PRINTING PRESS. UTAKICHI KAWASAKI, San Francisco, Calif. Filed Nov. 17, 1921. Serial No. 515,752. 2 Claims. (Cl. 101—297.)



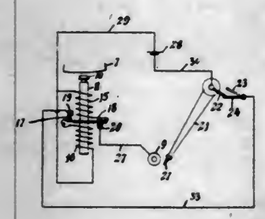
1. The combination with a platen and chase carrying element of a printing press wherein said elements are moved rapidly towards and away from one another, of means providing for the discharge of air from the chase carrying element onto the paper which has been printed, and the holding of the paper against removal from the platen by the action of the chase carrying element, immediately when said elements move away from one another.

1,457,035. ROUNDABOUT. JOSEPH E. KOTLIK, Hamburg, N. Y. Filed May 8, 1920. Serial No. 379,809. 10 Claims. (Cl. 46—27.)



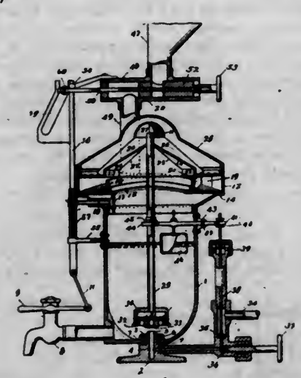
9. A roundabout comprising a circular track having two traction surfaces in different elevations, and a traveling element having two spaced pairs of wheels adapted for traction along said traction surfaces, the wheels of each pair being of different diameters, said traveling element including a carrying element mounted for rocking movement, and connecting rods between said carrying element and the large traction wheel of each pair of wheels.

1,457,036. AUTOMATIC STOP AND START FOR PHONOGRAPHS. PAUL M. KREE, New York, N. Y., and FERNAND DAUTEUIL, Dumont, N. J. Filed Aug. 25, 1922. Serial No. 584,294. 4 Claims. (Cl. 192—123.)



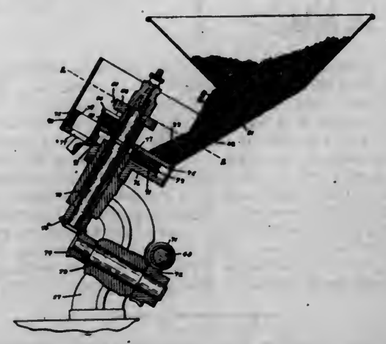
1. In combination with a talking machine having a turn-table, brake means for same and a tone arm having reproducing means, electromagnetic means for moving the brake mechanism to engage the turn-table, electromagnetic means for moving the brake mechanism away from the turn-table, an open circuit for said electromagnetic means, means for closing the circuit to the electromagnetic means for moving the brake away from the turn-table, operable by the outward movement of the tone arm, and means adapted to be provided on a record to be engaged by the reproducing means of the tone arm, to close the circuit to the electromagnetic means for applying the brake to the turn table.

1,457,037. APPARATUS FOR AND PROCESS OF AUTOMATICALLY PERCOLATING A FRESH QUANTITY OF COFFEE FOR EACH ONE DRAWN FROM AN URN. VERNON C. KREUTZ, Portland, Oreg., assignor of one-half to Edwin B. Wheat, Portland, Oreg. Filed Aug. 11, 1921. Serial No. 491,475. 10 Claims. (Cl. 53—3.)



9. The combination of a coffee urn mounted on a percolating pedestal with a sliding percolating stem having a percolating valve at its lower end and having a float within said urn adapted to raise said percolating valve from its seat on the bottom of said urn.

1,457,038. MACHINE FOR MEASURING AND DELIVERING LOOSE MERCHANDISE. JOHN D. LANE, Boston, and JAMES MACNAUGHTAN, Brookline, Mass., assignors, by mesne assignments, to Gordan Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed May 4, 1921. Serial No. 466,839. 4 Claims. (Cl. 221—108.)

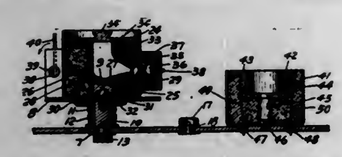


1. A merchandise-measuring and delivering machine comprising a fixed hopper, including a continuous annular confining wall having an inlet in one side, and a merchandise-supporting bottom having a delivery port out of alinement with the said inlet; a circular turret closely fitting and rotatable in said confining wall, and having a circular series of open-ended tubular receivers, whose lower ends are in sliding contact with, and closed by the hopper bottom, the receivers being caused by the rotation of the turret to revolve in a circular path, and register singly and successively with said port, to permit the discharge of their contents, a gravity feed chute outside the hopper, and communicating with said inlet, and adapted to deliver, upon a portion of the turret and in the path of said receivers, a loose bank of merchandise, the external form of which is determined by the angle of repose of the merchandise, so that the merchandise forming said bank is free from crushing pressure from the weight of the merchandise in the chute, and is adapted to flow loosely into receivers passing under the bank, the arrangement being such that each receiver is charged from said bank when in its non-registering position.

1,457,039. FASTENING DEVICE. EDWARD G. LEHMAN, Canton, Ohio. Filed Apr. 25, 1921. Serial No. 464,316. 1 Claim. (Cl. 85—32.)

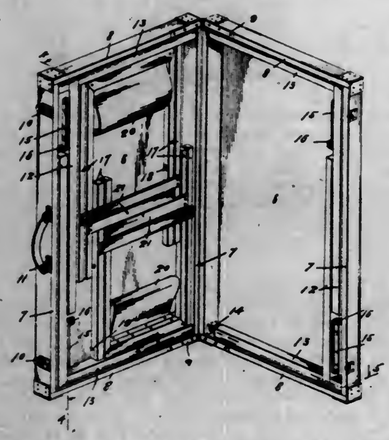
In a device of the character described, a sheet formed with an aperture adapted to engage a screw-threaded bolt or the like, the edge of such aperture being displaced to one side of the plane of the sheet so as to lie on a helix corresponding with the thread on such bolt, and being bent to present one corner of such edge for engagement with such thread.

1,457,040. CASTING MACHINE. JOHN A. MCMANUS, Lynn, Mass. Filed Oct. 11, 1919. Serial No. 330,151. 6 Claims. (Cl. 22—65.)



1. In a casting machine, the combination of an electrical resistance furnace deriving its heat by means of current passed through an electrical resistance wire in operative relation with said furnace, means for delivering electrical energy to said resistance wire, means for controlling the amount of electrical energy supplied to said furnace, and a means for transferring fused material from the furnace to the mould under the action of centrifugal force.

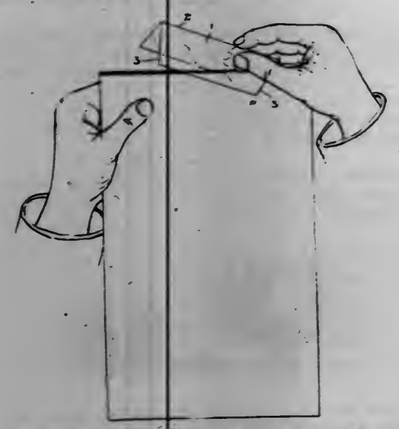
1,457,041. FOLDING CAMP TABLE AND STOOL SET. BENJAMIN F. OREAR, Minneapolis, Minn. Filed June 30, 1921. Serial No. 481,537. 1 Claim. (Cl. 190—11.)



A folding table comprising two top sections adapted to be folded, the one upon the other, to afford a closed con-

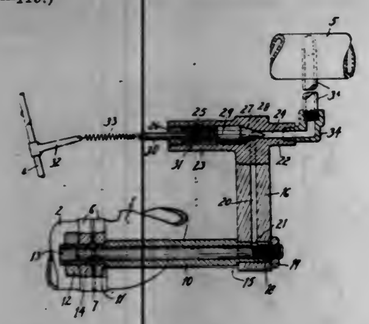
tainer, a pair of legs pivoted in the outer corners of each top section for folding movements therein, the free end of each leg, when folded, terminating short from the opposite end of the top section in which it is pivoted, and a toggle link between the end of each leg and the adjacent end of the respective top section, said toggle links connecting the legs to the top sections and arranged, when straightened, to hold the legs in operative positions and, when buckled and the legs folded, to extend between the free end of the legs and the adjacent ends of the top sections.

1,457,042. PAPER CLIP. CHARLES EDWARD POTTER, Toronto, Ontario, Canada. Filed Oct. 6, 1922. Serial No. 592,826. 3 Claims. (Cl. 24—255.)



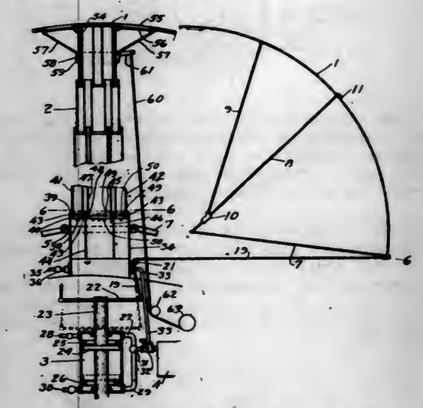
1. A paper clip, comprising, a strip of thin flexible resilient material folded longitudinally and permanently creased to receive and grip the paper sheets.

1,457,043. HOT-AIR SUPPLY TO INTAKE MANIFOLDS. FREDERICK W. SCHRAMM, Springfield, Mass. Filed Aug. 3, 1922. Serial No. 579,352. 12 Claims. (Cl. 123—119.)



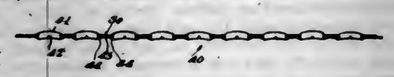
11. The combination, in an attachment of the class described, with laterally-extending perforated flanges on adjacent ends of a carburetor and an intake manifold, a centrally-perforated and longitudinally-slotted gasket between said flanges, with the perforation therein registering with the passages in said carburetor and manifold, and the slots therein registering with the perforations in said flanges, and an exhaust pipe, of tubes the rear terminal portions of which are introduced into the perforations in said flanges and pass through said slots, and have orifices therein to open into said slots, said tubes being shouldered to abut the manifold flange, and said terminal portions being externally screw-threaded, nuts on the screw-threaded part behind the carburetor flange, a distributor mounted on the forward terminal portions of said tubes, the latter being shouldered to form abutments for said distributor behind, and internally screw-threaded at their forward ends, adjusting screws in said ends, nuts on said screws to abut the front side of said distributor, said tubes having therein orifices adjacent to said screws, and said distributor having therein passages which open into said last-named orifices, and other passages which open into said first-named passages, a tubular connection leading from one of said last-named passages to said exhaust pipe outside of the same, a valve arranged in said distributor to open and close the passage therein into which said tubular connection opens, and operating means for said valve.

1,457,044. SAFETY DEVICE FOR FLYING MACHINES. JOHN C. SHERAY, Seattle, Wash. Filed Dec. 16, 1922. Serial No. 607,269. 5 Claims. (Cl. 244—21.)



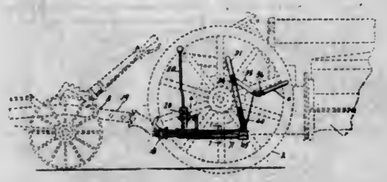
1. A safety device of the class described embodying a large bag which when opened will conform to a little more than half of a sphere, said bag having its outer edge secured to a large ring that is attached to the top of an airplane, and its inner edge attached to a telescoping member in the center; means for holding the folded bag downward; a cylinder below the telescoping member with suitable attachments for releasing the means that holds the bag downward when air is admitted to the cylinder; a valve within easy access of the aviator by which air may be admitted to the cylinder and telescoping member; and a ventilator in the bag around the telescoping member with means for regulating it from the cock-pit.

1,457,045. APRON FOR PHOTOGRAPHIC DEVELOPING EQUIPMENT. JOSEPH W. C. SHIPMAN, Los Angeles, Calif. Filed June 17, 1919. Serial No. 305,698. 4 Claims. (Cl. 95—100.)



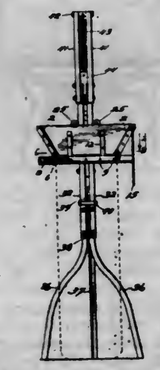
1. In an apron for separating the successive turns of a roll of photographic material upon a reel, comprising: axially disposed rods of proper length to accommodate the width of said photographic material to be wound thereupon; blocks of proper thickness to separate said turns mounted upon the ends of said rods; and hinged links connecting said blocks at right angles to said rods.

1,457,046. HITCH AND CLUTCH RELEASE DEVICE FOR TRACTORS. WILLIAM P. STOUGH, Sherwood, Mich. Filed June 17, 1922. Serial No. 568,027. 11 Claims. (Cl. 180—14.)



1. In a device of the class described, the combination with a tractor provided with a clutch control lever, of a draft frame mounted on said tractor and provided with a rearwardly facing curved way at its rear end and with forwardly projecting arms connected by a downwardly offset cross piece, a draw bar pivotally mounted on said cross piece; a slide carriage mounted on said way and pivotally connected to said draw bar, a draft lever pivoted on said carriage and adapted to be connected to an implement to be drawn, a draft spring connected to said draft lever, operating connections for said draft lever to said clutch control means, an adjusting means for said carriage comprising a segment having a series of teeth at its lower edge, an adjusting lever pivotally and laterally adjustable on said segment to directly engage said teeth, and a link connecting said carriage to said lever adjacent its point of engagement with said segment teeth.

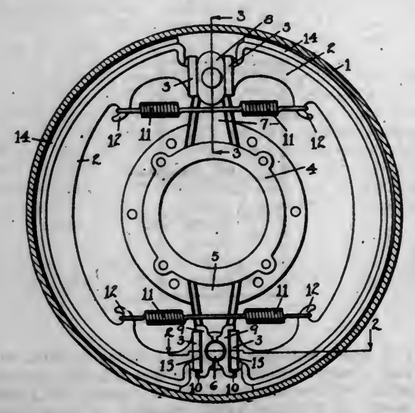
1,457,047. SACK HOLDER. EDWIN TAYLOR, Edwardsville, Kans. Filed Jan. 9, 1922. Serial No. 527,890. 6 Claims. (Cl. 83—26.)



1. A sack holder comprising a hopper having back and end walls, a pair of horizontal prong-equipped bars pivotally suspended from the hopper and a wedge plate to be forced between and against said bars to swing them outwardly to dispose their prongs in position to impale and form a suspension support for a sack.

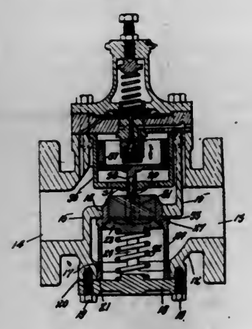
1,457,048. BRAKE. GEORGE J. THOMAS, Lansing, Mich. Filed Jan. 20, 1922. Serial No. 530,541. 2 Claims. (Cl. 188—79.)

2. The combination of a drum, segmental shoes having rests at each end, a shoe supporting pin, an actuating cam; pivot blocks mounted on said pin and having seats adapted to receive the rests at one end of said shoes with the rests at the other end coacting with said



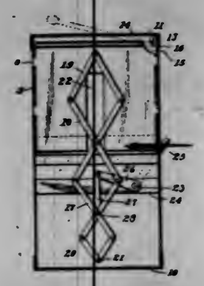
actuating cam, and springs connecting the ends of said shoes whereby they are yieldingly held upon their pivot blocks and against said actuating cam.

1,457,049. PRESSURE-REDUCING VALVE. EDWARD WEBB, Reading, Mass., assignor of one-half to Julian D'Este Company, Charlestown, Mass., a Corporation of Maine. Filed Mar. 16, 1922. Serial No. 544,100. 3 Claims. (Cl. 50—11.)



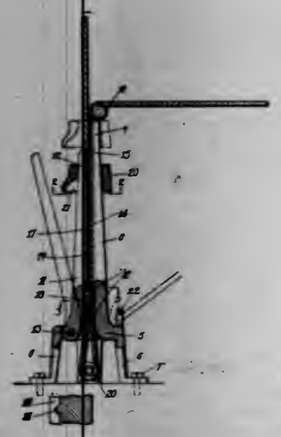
1. A pressure-reducing valve comprising, in combination, a valve body having an angular internal bridge provided with a circular opening, the body being provided with a larger circular opening coaxial with and spaced from the bridge opening; a cap detachably secured to the body and forming an imperforate closure for the body opening; a cage including an outer ring seated on the cap and having a sliding fit in the body opening, and an inner ring provided with a shoulder seated on the bridge, a valve disc seat, an external annular face having a sliding fit in the bridge opening, and an internal annular guiding face forming a valve disc guide, said rings being connected and spaced apart by rigid bars; a valve disc formed to close on said seat, and having a winged stem slidable in said guiding face; and a closing spring interposed between the cap and the valve disc, the cap constituting a spring abutment and a clamp, releasably confining the cage shoulder against the bridge, the cage being guided to and from its operative position by the walls of the body and bridge openings.

1,457,050. SINGLE-MATCH DISPENSER. ALBERT ABBATICCHIO, Latrobe, Pa. Filed June 17, 1922. Serial No. 568,982. 7 Claims. (Cl. 206—23.)



1. A match dispenser including a casing provided with a slot, a match tilting arm arranged adjacent said slot, a match delivery slide provided with means for holding a match, a lazy-tong frame composed of cross levers and terminal links and connected with the slide, and operating mechanism pivotally connected with the lazy-tong frame for moving the slide toward said slot whereby to contact the match with said projecting arm to tilt the match and cause the same to project through the slot.

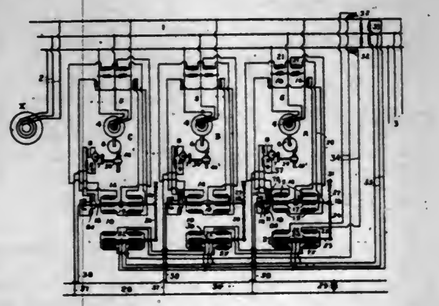
1,457,051. ROPE CLAMP. CHARLES BEECKEN, New York, N. Y. Filed June 14, 1922. Serial No. 568,213. 8 Claims. (Cl. 24—136.)



1. A stationary clamping device of the class described comprising a base having a vertical standard, a clamping arm pivotally mounted on the base and movable with respect to the standard, means disposed on the inner faces of the standard and clamping arm for crimping a rope and a retaining element for said arm and standard.

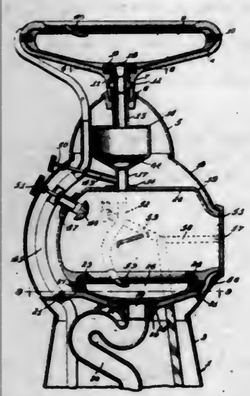
1,457,052. SYSTEM OF ELECTRICAL DISTRIBUTION. EZEKIEL B. BIRCH, Pittsburgh, Pa. Filed June 25, 1921. Serial No. 480,344. 23 Claims. (Cl. 171—312.)

1. In an electric distribution system, service lines, main and auxiliary means for supplying current to said lines, means controlled by the total load on the said lines for varying the output of the said auxiliary means,



and means controlled by the output of the auxiliary means for controlling the varying means.

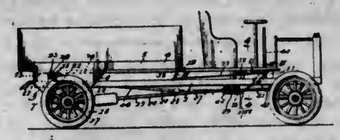
1,457,053. SPITTOON AND WASTE FLUSH. CHARLES ELMORE BOWLES, Pulaski, Va. Filed July 17, 1922. Serial No. 575,679. 9 Claims. (Cl. 4—40.)



1. In a device of the class described, a rotatable spittoon; a source of water supply discharging into the spittoon to secure a rotation thereof; a waste receiver; a rotatable basin cooperating with the receiver; a conduit leading from the spittoon and discharging into the basin to secure a rotation thereof; a reservoir interposed in the conduit and constituting means for securing a substantially continuous flow from the spittoon to the basin; means under the control of an operator for securing a flow of water through the conduit independently of the spittoon; means under the control of an operator for securing a flow of water into the receiver independently of the spittoon; a vessel having an outlet; and a removable waste collector in the vessel and having an outlet communicating with the vessel, the basin discharging into the collector.

1,457,054. LOADING AND UNLOADING APPARATUS. BARNABUS P. BRATT, Baker, Oreg. Filed May 9, 1921. Serial No. 467,955. 13 Claims. (Cl. 214—77.)

1. The combination with a motor driven truck, of a platform fulcrumed thereon for tilting movement from a horizontal position to a vertical position, arcuate racks mounted on the platform and whose radii extend from the fulcrum of the platform, means operatively connecting with the racks for moving the platform on its fulcrum and including a pair of members alternately



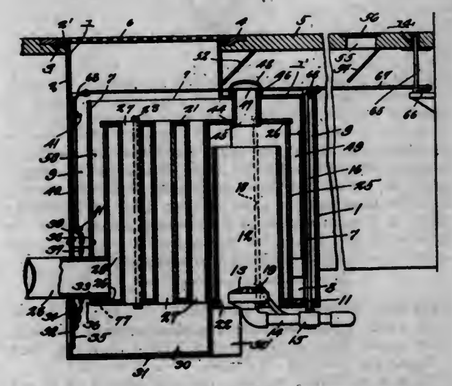
operatively connecting with the motor shaft of the truck, for moving the platform from a horizontal position to a vertical position and vice versa.

1,457,055. FLOAT BALL. PHILIP J. BERWINGTON, Temple, Tex. Filed July 23, 1921. Serial No. 487,036. 3 Claims. (Cl. 137—104.)



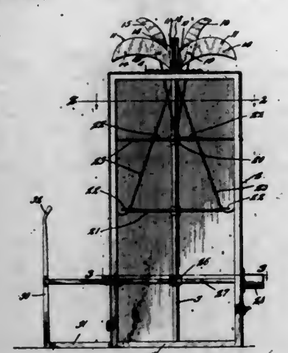
3. A float ball having a pair of diametrically disposed openings therein surrounded by inwardly tapered flanges, a conical gasket received in each of said openings, a tube extending through the float ball and gaskets, one end of said tube being flanged to abut the adjacent gasket, the other end of the tube being threaded, a rod adjustably mounted in said threaded end of the tube, a nut mounted on said threaded end and adapted to abut the gasket arranged adjacent thereto, and means for retaining said nut in adjusted fixed relation to said rod.

1,457,056. FLOOR HEATER. BENJAMIN F. CALDWELL, Pomona, Calif. Filed Mar. 14, 1921. Serial No. 452,022. 4 Claims. (Cl. 126—116.)



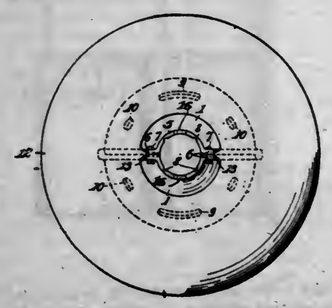
3. In a furnace the combination with a bottom plate, a top plate, and a casing connecting said plates to form a radiator, of a combustion tube opening through the bottom plate and discharging into the upper portion of the radiator, a burner supported within the lower end of the combustion tube, an outer casing housing the radiator and spaced therefrom, said bottom plate constituting the bottom of the outer casing, an inner casing interposed between the outer casing and radiator and spaced therefrom to form annular air spaces, said inner casing being spaced from the bottom plate to provide a passage for the flow of descending cold air inwardly against the radiator and for the ascent of said heated air within the inner casing and around the radiator, a secondary casing supported below a portion of the bottom plate and communicating with a portion of the space between the outer and inner casings, and air flues connecting the top and bottom plates and opening into the upper portions of the secondary casing and of the inner casing.

1,457,057. SIGNAL. GEORGE DANIELS, St. Louis, Mo. Filed Feb. 5, 1923. Serial No. 617,036. 3 Claims. (Cl. 116—63.)



3. In a signal of the class described, a supporting structure, a head mounted on the upper end of said structure and including pairs of oppositely extending guide arms, the arms of each pair being laterally spaced and connected at their outer ends, an arcuate wing pivotally mounted at one end between each pair of said arms and adapted to rest at its free end on the connection at the outer end thereof, cables connecting the pivoted ends of said wings with said structure, a shaft mounted for rotation in said structure, arms fixed to said shaft and having guides through which said cables pass, and means for rotating the shaft to exert a pull on alternate pairs of the cables for raising and lowering the swinging wings.

1,457,058. COMBINED GLOBE HOLDER AND REFLECTOR. CHARLES LEE FITCHET, Lancaster, Pa. Filed Mar. 27, 1922. Serial No. 547,053. 3 Claims. (Cl. 240—115.)



1. A combined globe support and reflector for electric lamps, comprising a two-part holder of substantially bell

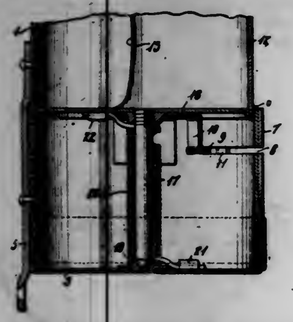
shape having a neck for embracing a suspended lamp socket, the two parts of said holder being identical in form and complemental one to the other, corresponding ears formed on the neck portions of said two parts, attaching bolts directed through said ears, said holder having an internal annular rib adacent to its lower edge for embracing the neck of a globe, and a reflector encircling said holder and having supporting lugs mounted upon said bolts.

1,457,059. SAFETY DEVICE FOR GAS WELDING PLANTS. CHARLES FERRONARA, Lyon, France. Filed July 9, 1920. Serial No. 395,085. 2 Claims. (Cl. 48—192.)



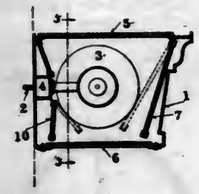
1. A safety device for gas welding plants comprising a pipe, means at the opposite ends of the pipe for the attachment of the gas lines comprising plugs fitted into the ends of the pipe, a plurality of tubular members fitted into the pipe and confined between the inner ends of the plugs, foraminous discs disposed at their peripheries between the adacent ends of adjacent ones of said tubular members and thus retained in place and forming a series of compartments extending longitudinally of the pipe, and a filling within each compartment.

1,457,060. MILK-BOTTLE HOLDER. MIKE G. GARDONYI, Cleveland, Ohio. Filed Aug. 21, 1922. Serial No. 583,229. 7 Claims. (Cl. 232—41.)



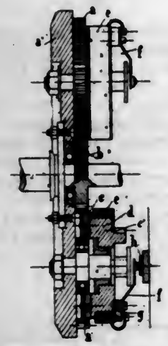
1. A milk bottle holder comprising a casing, a rotatable receiving member within said casing, means for locking said receiving member in one position within said casing, a bottle supporting member carried by said casing, said bottle supporting member being adapted when in one position to retain the rotatable member in open position, and means to return said rotatable member to closed position when released from said bottle supporting member.

1,457,061. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 16, 1919. Serial No. 317,865. 3 Claims. (Cl. 240—4.)



1. A lighting fixture comprising a light source; a horizontally disposed container with opaque side walls and a translucent upper and a translucent lower portion; a pair of longitudinally disposed reflectors, one adjustably secured in advance of the light source and the other adjustably secured behind and below the light source, each of said reflectors having independent means for retaining it in any desired position, substantially as shown and described.

1,457,062. PROGRESSIVE CHANGE-SPEED GEAR. CHARLES EDOUARD HENRIOD, Neuilly-sur-Seine, France. Filed Mar. 23, 1921. Serial No. 454,831. 9 Claims. (Cl. 74——53.)

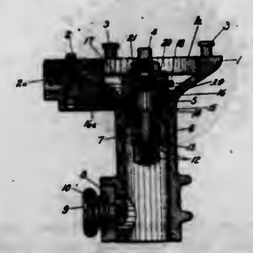


1. In a progressive change-speed mechanism, the combination, with a motor fly wheel adapted to turn at the speed of the motor, a resistance gear disposed concentric with the fly wheel, and a set of planetary gears carried by the fly wheel to revolve bodily therewith and constantly meshing with the resistance gear; of means, including a magnetic clutch, associated with each planetary gear to lock the same against axial rotation at a predetermined point in the revolution of the planetary gear with the fly wheel; and means for automatically energizing each clutch in succession as it reaches such point.

1,457,063. SWIVELING SUPPORT. GREENE C. HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed Mar. 31, 1919. Serial No. 286,380. 3 Claims. (Cl. 248—41.)

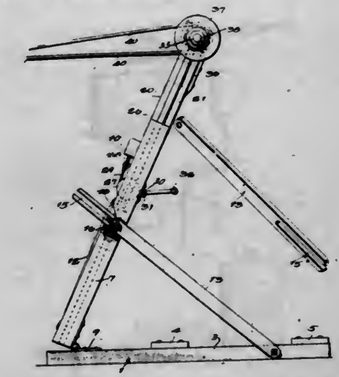
1. In a swiveling support, the combination of a relatively fixed bracket member having a post, a swivel-head supported on the upper end of the post, a pivot stud connecting the swivel-head and the post and rigidly secured

to the post, a socket-plate attached to the swivel-head and having a plurality of recesses on the face thereof circumferentially disposed about the axis of the stud, a collar on said stud connected to the stud so as to rotate therewith and capable of a movement longitudinally on the stud, said collar having a projection seating on the



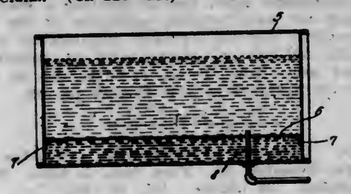
said socket-plate to engage with any of the recesses to hold the rotary head against rotation, and a spring carried on the stud to force the collar against the socket-plate and permitting the collar to move away from the socket-plate when said head is given a swiveling movement.

1,457,064. SHARPENING MACHINE. CHARLES M. HUFF, Albion, Wash. Filed June 12, 1922. Serial No. 567,794. 2 Claims. (Cl. 51—170.)



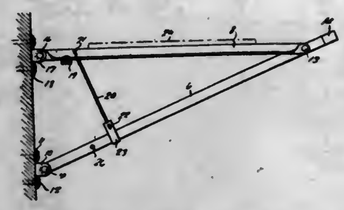
1. A portable grinding machine comprising a base, a main frame hingedly carried by the base, an auxiliary frame slidably mounted in the main frame, grinding means carried by the auxiliary frame, winding means carried by the main frame, and a flexible element connected to the winding means and to the auxiliary frame, whereby upon movement of the winding means, the auxiliary frame will be raised or lowered within the main frame.

1,457,065. GASOLINE TANK. CHARLEY JOHNSON, Wilmot, Ohio. Filed Aug. 9, 1921. Serial No. 490,928. 1 Claim. (Cl. 220—22.)



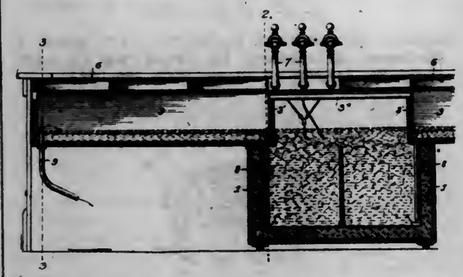
In a gasoline tank, a chamber divided into two compartments by a perforated wall, one of which being adapted to contain gasoline and the other water whereby the two liquids, by contact, will intermingle, and a liquid fuel pipe passing through the tank and disposed in close proximity to the perforated wall whereby to conduct the intermingled liquids away from the tank.

1,457,066. SCAFFOLD BRACKET. FREDERICK J. KESTNER, Cleveland, Ohio. Filed May 24, 1922. Serial No. 563,331. 3 Claims. (Cl. 304—33.)



1. A folding scaffold bracket comprising a single arm provided with a hook at one end, and a pair of brace arms loosely pivoted at one end to said single arm, to swing vertically and laterally toward the single arm, the pivotal connection being adjustable to either end of said single arm, a folding tie connecting the single arm and the pair of arms, and folding links connecting the brace arms, said tie being slidable along the single arm.

1,457,067. SODA FOUNTAIN. STANLEY H. KNIGHT, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,643. 2 Claims. (Cl. 62—84.)

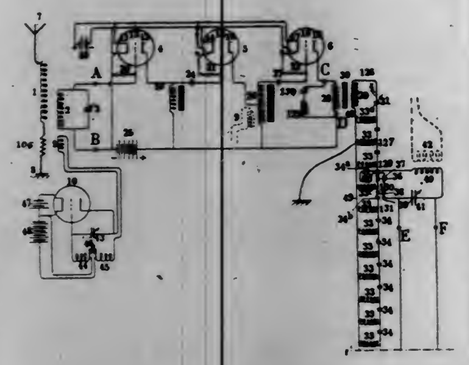


1. In a soda water fountain, the combination of a lower deep main chamber adapted to contain a cooling medium, soda water tanks and ice cream cans, a superimposed and offset comparatively shallow auxiliary chamber providing a cooling receptacle for fruit juices and the like, the lower portion of the auxiliary chamber extending below the upper portion of the main chamber, a pipe connection between the lower portion of the main chamber and the bottom of the auxiliary chamber and adapted to convey upwardly the cold water in the lower portion of the main chamber into the bottom of the auxiliary chamber, and an overflow pipe connected to the auxiliary chamber at a point remote from the aforesaid pipe connection.

1,457,068. PROCESS OF REFINING HYDROCARBON OILS. HENRY M. LASHER, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed June 23, 1920, Serial No. 391,184. Renewed Sept. 12, 1922. Serial No. 587,848. 1 Claim. (Cl. 196—25.)

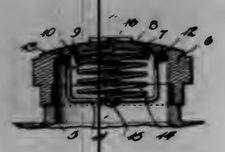
The process of cracking petroleum oil which consists in heating the same to cracking temperature at low pressure with a subdivided mass of sodium chloride suspended in the liquid.

1,457,069. RECEIVING SYSTEM FOR ELECTRIC WAVES. LUCIEN LEVY, Paris, France. Filed Sept. 27, 1919. Serial No. 326,993. 16 Claims. (Cl. 250—20.)



1. In an antiparasitic selecting receiving system for electric waves:—means for selectively receiving on one tuned device electrical oscillating damped energy as well as sustained energy of the same primary frequency,—means for converting the frequency of this energy to lower but ultra-acoustical frequency energy,—means for separating in the ultra-acoustical frequency energies the sustained energy from the damped energy,—means for utilizing the ultra-acoustical energy for actuating the indicating means of the receiving station.

1,457,070. AUTOMOBILE RADIATOR CAP. HARRY A. MAYBERRY, McLeansboro, Ill. Filed Mar. 7, 1922. Serial No. 541,808. 1 Claim. (Cl. 220—24.)



A closure having a central opening, a valve normally-seated in the opening, a pair of U-shaped members arranged at right angles to each other, each provided with an extension at its upper end, said extensions secured to the underface of the closure, a coil spring having convolutions of substantially the same area as the area of the valve and engaged with the under face of the valve, the lower end of the coil spring being extended through the U-shaped members at its places of intersection and formed with a head wherein the lower end of the spring is held against lateral movement, and a depending flange carried by the under face of the valve and receiving the top convolution of the spring, whereby this end of the spring is held against lateral movement.

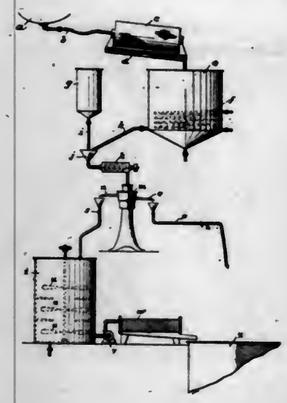
1,457,071. METAL PULLEY. HENRY J. GILBERT, Saginaw, Mich., assignor to Saginaw Manufacturing Company, Saginaw, Mich., a Corporation of Michigan. Filed Apr. 5, 1921. Serial No. 458,683. 16 Claims. (Cl. 64—18.)

1. A metal pulley adapted for use on a shaft and formed in two halves, said pulley comprising rim sections, means clamping the pulley on the shaft, and automatic centering means resisting the distorting action



on the rim when the clamping means are applied, whereby clamping and centering are simultaneously effected.

1,457,072. PROCESS FOR REFINING VEGETABLE OILS. CYRUS HOWARD HAPGOOD, Nutley, and GEORGE FREEBORN MAYNO, East Orange, N. J., assignors to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed June 29, 1921. Serial No. 481,396. 6 Claims. (Cl. 87—12.)

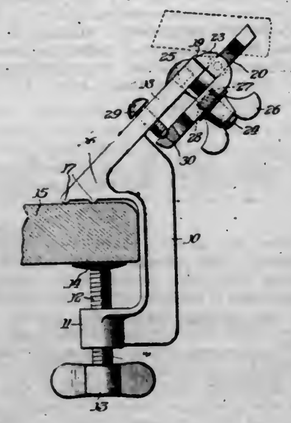


1. A continuous process for refining vegetable oils which comprises filtering out the coarser solid particles, subjecting the same to a temperature of not less than approximately eighty degrees F. and not higher than one hundred degrees F., flowing a stream of a saponifying agent into contact with a flowing stream of said heated oil and subjecting the mixture during the flow to a mechanical mixing action to effect a primary saponification of the fatty acids, subjecting the flowing mixture to centrifugal force, thereby effecting a relatively very short but more intimate admixture of the constituents with a resultant secondary saponification of the fatty acids followed by separation of the saponifying agent and soaps from the oil, agitating the oil with an inert clarifying agent and filtering the oil.

1,457,073. CUTLERY SHARPENER. WILLIAM L. HOENKE, Evanston, Ill. Filed Sept. 7, 1920. Serial No. 408,560. 14 Claims. (Cl. 76—86.)

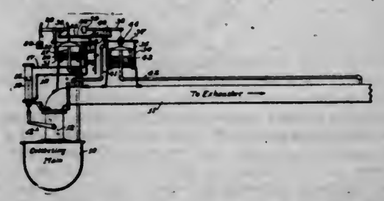
1. A sharpener of the class described, comprising a support, a clamping plate fulcrumed at one of its ends

on said support and having a notch at its other end, cutting means arranged in the notch of the clamping



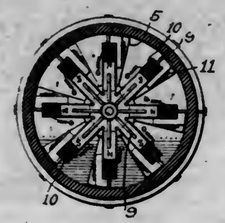
plate, and clamped by the latter to said support, and locking means for holding the plate and the cutting means in clamped relation to said support.

1,457,074. CONSTANT-FLOW GOVERNOR. CARL R. HOUGHTON, Connersville, Ind., assignor to The Connersville Blower Co., Connersville, Ind., a Corporation of Indiana. Filed Sept. 9, 1921. Serial No. 499,492. 16 Claims. (Cl. 48—191.)



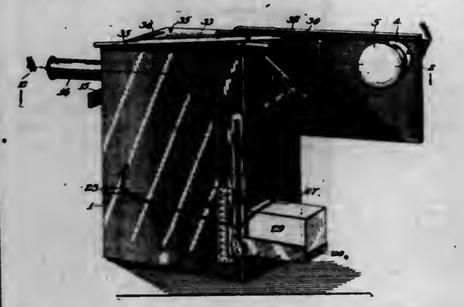
2. In combination, a gas collecting main for a battery of gas ovens, a pipe extending therefrom to an exhauster, a valve controlling the flow of gas from said collecting main to said pipe, operating mechanism for said valve, and means for controlling said operating mechanism by the gas-flow along said pipe.

1,457,075. DEVICE FOR PRODUCING OR REPRODUCING SOUND. CLINTON H. HULBERT, Chicago, Ill. Filed Mar. 21, 1917, Serial No. 156,428. Renewed Oct. 18, 1922. Serial No. 595,463. 1 Claim. (Cl. 179—119.)



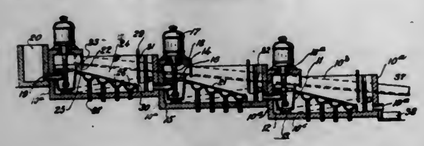
In a device of the class described, permanent magnets, electro-magnets connected thereto consisting of six or more located all on one side of the diaphragm arranged in pairs of like poles, the poles of said electro-magnets being disposed in circular series, the north and south poles being arranged in alternating relation and a diaphragm cooperating with said poles.

1,457,076. PHOTOMETER. FREDERIC E. IVES, Philadelphia, Pa. Filed Apr. 11, 1922. Serial No. 551,600. 4 Claims. (Cl. 88—23.)



1. The combination in a photometer in optical sequence of a source of light having materially extended area of even luminosity, an adjustable diaphragm or shutter with scale, a diffusely reflecting white surface, a reflector and a divided field.

1,457,077. FLOTATION MACHINE. THOMAS A. JANNEY, Garfield, Utah. Filed Aug. 21, 1919. Serial No. 318,958. 7 Claims. (Cl. 83—85.)

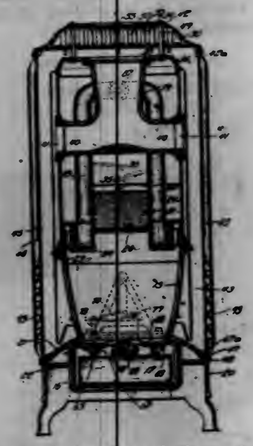


1. The combination in a flotation machine, of an agitation vessel open at its upper end, means for agitating ore pulp in said vessel and discharging the same over the upper end thereof, an inclined perforated medium adapted to receive the pulp and froth discharged over the upper end of said vessel, means for inclosing said perforated medium to form a separating box, means for introducing air through said perforated medium, a plurality of chambers at the lower end of said separating box, overflow lips leading to said chambers, means for conveying pulp from one of said chambers to a succeeding agitation vessel, and a return conduit for conveying pulp from another of said chambers back to said first named agitation vessel.

1,457,078. HEATER. BERTRAND B. KAHN, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a Corporation of Ohio. Filed Sept. 16, 1921. Serial No. 501,100. 3 Claims. (Cl. 126—67.)

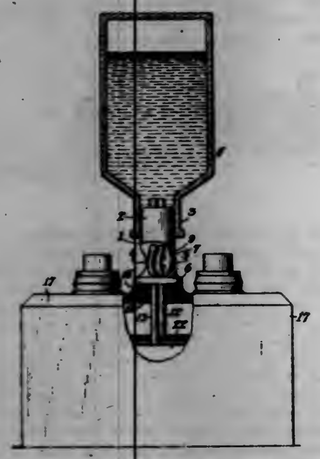
1. In a portable heater adapted to be placed in a living room, the combination of a base formed with a peripheral shoulder; an ash-box formed with a peripheral flange removably seated on the shoulder, the flange being provided with a peripheral upwardly opening channel; a combustion chamber having a fire-pot supported on the ash-box; a casing having its lower edge loosely seated in said channel and laterally enclosing and spaced from the combustion chamber and fire-pot, the casing being formed with air inlet openings surrounding and directly

opposite the fire-pot; and a dome secured to and spaced above the top of the combustion chamber and slidably



contacting with the surface of the casing, the dome being encircled with air escape openings.

1,457,079. FILLING DEVICE FOR BATTERIES AND THE LIKE. OTTO H. KOLB, Philadelphia, Pa. Filed Mar. 5, 1921. Serial No. 449,675. 4 Claims. (Cl. 137—68.)



1. A filling device comprising a stopper having a body portion, a head portion, a connecting member between the body portion and the head portion, flexible tubes extending through the said body portion and the head portion and projecting predetermined lengths beyond the head portion whereby the head portion will limit the distance the tubes may be inserted into a receptacle, and said connecting member being constructed to permit the tubes to be compressed between the said body and head portions.

1,457,080. POLISHING COMPOSITION. FRANK FRED KUHN, Minneapolis, Minn., assignor to Lynda M. Ley, Minneapolis, Minn. Filed Sept. 22, 1922. Serial No. 589,922. 3 Claims. (Cl. 134—24.)

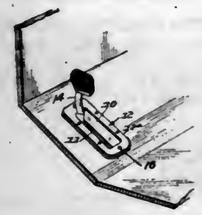
3. A polishing composition consisting of six ounces of turpentine, fifty-seven ounces of paraffin oil, twenty-two ounces of boiled linseed oil, ten ounces of a ten per cent solution of ammonia, thirty-two ounces of vinegar, and, one-fourth ounce of ether.

1,457,081. THRUST BEARING. WILLIAM H. LIEBER, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 24, 1921. Serial No. 455,017. 19 Claims. (Cl. 64—25.)



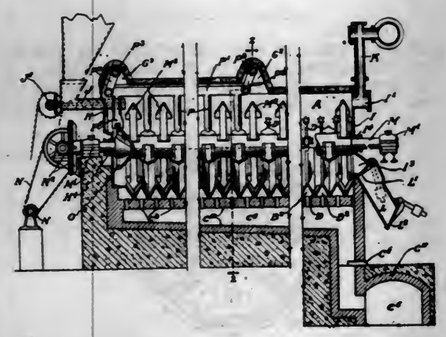
1. In a thrust bearing for a shaft, relatively rotatable bearing members having opposed bearing surfaces, and a bearing element interposed between said bearing members and comprising a plurality of bearing portions having bearing faces co-operative with the bearing surfaces of said bearing members, one half of said bearing portions being co-operative with the bearing surface of only one of said bearing elements and the other half being cooperative with the bearing surface of only the other one of said bearing elements, the bearing portions of the two groups being arranged in alternating relation.

1,457,082. LEVER-SLOT CLOSURE. PAUL J. MCCLOSKEY, New Brunswick, N. J. Filed Mar. 29, 1921. Serial No. 456,770. 1 Claim. (Cl. 74—81.)



A closure for the guide slot of an auto clutch lever or the like, having laterally projecting yielding leaves or wings spanning the slot and transversely deflectable by the lever in traversing the slot, said leaves or wings having obliquely disposed cam end edges in the path of the lever.

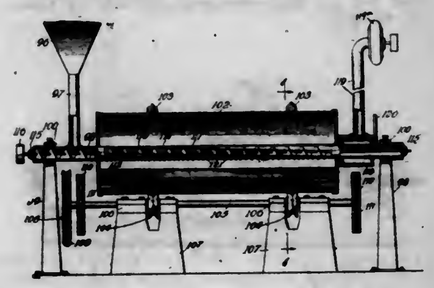
1,457,083. RETORT FURNACE. CHARLES V. MCINTIRE, East Orange, N. J. Filed June 18, 1921. Serial No. 478,466. 8 Claims. (Cl. 202—9.)



8. A horizontally disposed retort having a bottom wall portion in the form of a section of a cylinder corrugated

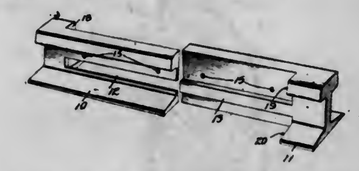
to provide alternating internal and external grooves extending circularly about the cylinder axis and a retort housing formed with a cavity receiving said retorts and the wall of which unites with the external corrugation grooves to provide retort heating flues, burner inlet openings to said flues, and outlets therefrom for products of combustion.

1,457,084. PULVERIZING APPARATUS. WILSON L. MCLAUGHLIN, Decatur, Ill. Original application filed Sept. 25, 1918, Serial No. 255,618. Divided and this application filed Jan. 20, 1919. Serial No. 272,073. 12 Claims. (Cl. 83—9.)



1. A pulverizer comprising in combination a cylindrical horizontally supported drum the length of which is considerably greater than its diameter and a plurality of cylindrical smooth faced pulverizing rollers therein, of substantially the same length as the interior of the drum, and all of which are without connection one with the other so as to be free to roll and tumble over each other when the drum is revolved, and of a multiplicity of different diameters so that the interstices between those of larger diameter are as nearly filled as practicable by those of smaller diameter, and so that a rubbing action on the material treated is produced by the rolling movement of said rollers, the rollers forming a compact mass filling the bottom portion of the drum with the voids between the rollers reduced to a minimum.

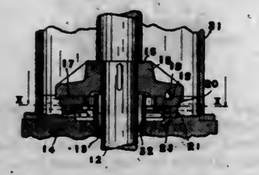
1,457,085. RAIL JOINT. WILLIAM H. MCNEIL, Hardy, Miss. Filed Sept. 27, 1922. Serial No. 590,931. 3 Claims. (Cl. 238—236.)



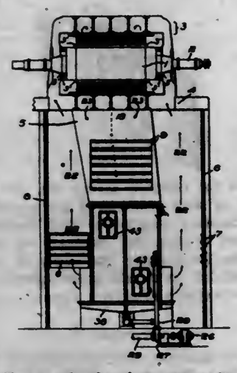
3. A joint for structural iron or steel, comprising a pair of bars having cut away corners providing vertical end and side faces, the side faces being hollowed out and one of said side faces having a horizontally extending slot, bolts extending transversely of the bars and positioned between the said slot and the tops of the bars, and nuts on said bolts said nuts being locked by the resiliency of the bars, substantially as set forth.

1,457,086. THRUST BEARING. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1919. Serial No. 348,502. 28 Claims. (Cl. 64—25.)

1. A unitary bearing element having a bearing surface and comprising a plurality of circumferentially spaced relatively rigid and substantially non-deflectable portions having bearing faces, and a resiliently yieldable intermediate portion connecting said relatively rigid portions adjacent the bearing faces thereof, said intermediate portion being of reduced thickness in an axial direction and readily deflectable during operation of said bearing element to cause a tilting of a portion of the bearing surface of said element.



1,457,087. METHOD AND APPARATUS FOR COOLING AND CLEANING AIR. JAMES JARVIS PREBLE, Waltham, and LEE H. PARKER, Boston, Mass., assignors to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1920. Serial No. 409,997. 9 Claims. (Cl. 261—15.)



1. Air cooling and cleaning apparatus adapted for use with structures to be cooled comprising in combination a closed circuit for the circulation and recirculation of the air, said circuit including said structure, and means for spraying water or the like directly upwardly into the air in said circuit, whereby the air is directly subjected to the cooling and cleaning effect of said sprayed water and is in such condition circulated past or through said structure.

4. Air cooling and cleaning apparatus adapted for use with a superposed body through or past which the air is circulated, comprising in combination, a cooling chamber through which the air is passed vertically downward, an outer chamber surrounding the same to receive the cooled and cleaned air upwardly therethrough, nozzles within said cooling chamber directed upward to spray water upwardly against the descending air current, and one or more passages communicating between said chambers at the lower portions thereof, the whole constituting a substantially closed circuit.

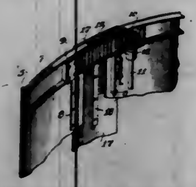
9. In an apparatus for cooling, cleaning and conditioning the ventilating air for use with structures to be cooled, in combination, a warm air receiving chamber through which the air to be cooled, cleaned, and conditioned is passed vertically, spray means in said chamber, a return chamber or chambers, said receiving and return chambers together with said structure constituting a closed circuit for the flow of the air, and passages in the side walls of said warm air receiving chamber to permit the lateral escape of the air to said return chamber or chambers.

1,457,088. TANK CAP. JAMES A. REASONER, Athens, Ohio. Filed Apr. 22, 1922. Serial No. 555,966. 2 Claims. (Cl. 220—24.)



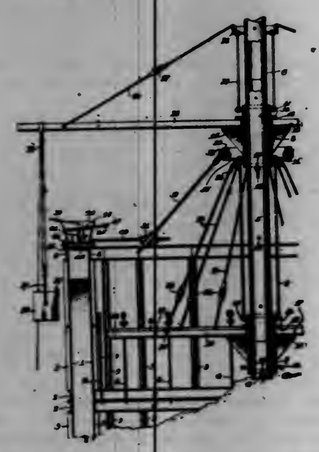
1. A tank cap of the class described comprising a body portion of circular formation and having an internal groove, a reduced threaded portion on the body, a bulge provided on the interior of the reduced threaded portion, a valve hinged in the reduced portion so as to normally seat on said bulge, means for holding the valve in a closed position, a removable cap seatable on said bulge, and means for holding the cap in engagement with the bulge, said means comprising a spring element having its intermediate portion attached to the cap and its terminal engageable with said groove.

1,457,089. MOLD FOR CONCRETE STRUCTURES. HENRY G. SELLMAN, Detroit, Mich. Filed Oct. 2, 1919. Serial No. 327,872. 4 Claims. (Cl. 25—124.)



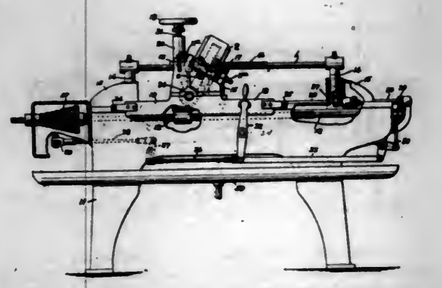
1. In a mold for concrete structures, the combination of a plurality of wall sections, a horizontally disposed channel iron member secured to each section, a guide member engaged within the channels of said channel member, a plate overlapping the edges of adjacent sections and suspended from said guide member and means for moving the sections relatively toward and from each other.

1,457,090. APPARATUS FOR BUILDING CONCRETE STRUCTURES. HENRY G. SELLMAN, Detroit, Mich. Filed Jan. 29, 1920. Serial No. 354,833. 8 Claims. (Cl. 25—124.)



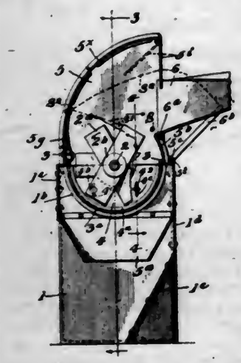
1. In an apparatus of the character described, the combination of a supporting mast, a member sleeved upon the mast to slide freely thereon, means for holding the member in adjusted position upon the mast, upper and lower parallel annular flanges upon said member, said lower flange being of greater width than the upper flange and adapted to engage beneath and form a support for radial arms, said upper flange being adapted to engage over the ends of said arms, and radial arms loosely engaged at one end between said flanges and extending radially from the mast.

1,457,091. MACHINE FOR CUTTING FILE TEETH ON CURVED SURFACES. FRANK F. SORENSEN, Philadelphia, Pa., and WALTER D. CRAFT, Newark, N. J. Filed Oct. 15, 1920. Serial No. 417,165. 8 Claims. (Cl. 76—12.)



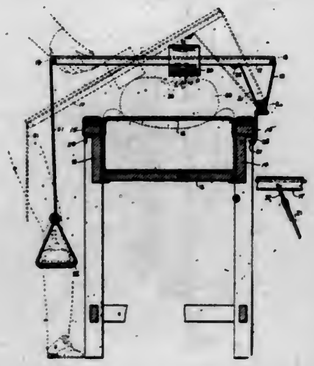
1. A machine for cutting or milling file teeth on curved faces of files comprising the combination of a rotary internal ring cutter, a file blank carrier adapted to expose the curved face of a file blank through the cutter, means for relatively feeding the carrier and cutter, and provisions for rotating the cutter about an axis inclined to the axis of the file blank.

1,457,092. GRINDER. CHARLES H. STANFIELD, Wichita, Kans. Filed Mar. 9, 1920. Serial No. 364,507. 8 Claims. (Cl. 83—11.)



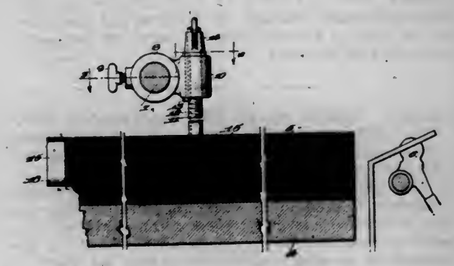
1. In a grinder, a casing formed of lower and upper sections; the end members of the lower section being provided with bearings for a grinding cylinder shaft, and with semi-annular brackets on their inner faces concentric with said bearings; and a semi-cylindric screen supported on said brackets concentric with said bearings, substantially as described.

1,457,093. OPERATING-TABLE ATTACHMENT. GEORGE C. TAPLIN, Brookline, Mass. Filed Jan. 14, 1922. Serial No. 529,191. 6 Claims. (Cl. 128—72.)



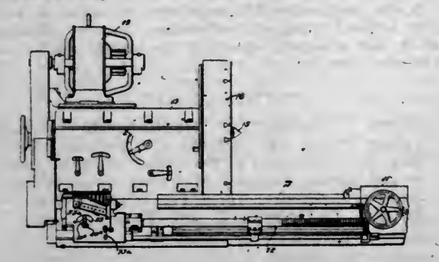
1. An operating-table attachment comprising an elongated bar, having pulleys at its ends, and a pressure pad between its ends, a strap connected at one end with the inner end portion of the bar and extending from the connected end over said pulleys to the outer end of the bar, one end of the strap being free and depending from the outer end of the bar, and an anchoring pulley provided with securing means engageable with a fixture on the table, and engaged with a portion of said strap between the attached end and the inner bar pulley, the arrangement being such that when the anchoring pulley is secured to the table, and the pad bears on a patient's body, the anchoring pulley-engaging portion of the strap forms a variable bight, permitting free endwise movements and various inclinations of the bar and pad.

1,457,094. PAPER-FEEDING APPARATUS. ROBERT J. THOMPSON, Harrisburg, Pa., and RAYMOND S. DALTON, Cleveland, Ohio, assignors of one-half to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio, and one-half to The W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1921. Serial No. 503,659. 6 Claims. (Cl. 271—26.)



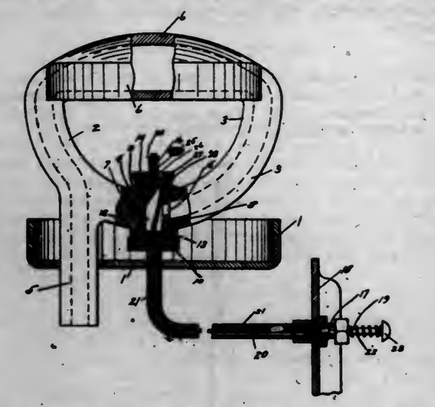
1. In paper feeding apparatus, the combination with means for supporting a pile of paper and means for delivering a blast of air against one end of the same, of means for preventing the free escape of the air so delivered from the lateral sides of the pile, said air delivering means and air escape preventing means permitting the free edgewise removal of the topmost sheets from the pile.

1,457,095. LATHE HEADSTOCK AND FEED MECHANISM WITH RAPID TRAVERSE. WALLACE E. WARD, New York, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed May 16, 1919, Serial No. 297,587. Renewed Oct. 20, 1922. Serial No. 595,865. 7 Claims. (Cl. 82—21.)



1. Lathe mechanism comprising a spindle, a high speed drive shaft, a feed shaft, means for connecting said high speed drive shaft directly with said feed shaft for rapid traverse, including a countershaft mounted in parallelism with said feed shaft and also with said high speed drive shaft and with said spindle, there being a disconnecting clutch between said high speed drive shaft and feed shaft adapted to disengage the same in either direction of movement, and change feed gearing connections from said spindle to said feed shaft, also including a disconnecting clutch.

1,457,096. OIL BURNER. NELSON J. WARREN and WILLARD C. SMITH, Sioux City, Iowa. Filed May 14, 1921. Serial No. 469,447. 6 Claims. (Cl. 158—63.)



6. A burner including a cylindrical nozzle having an opening in one end thereof, and an eccentric opening in the other end thereof, a plate rotatable on the latter end and having a circular series of openings therethrough, any chosen one of which may be placed in registration with said eccentric opening by rotation of the plate, a tube secured to said first end and bent at an angle thereto, and a flexible element slidable in the tube to extend through said eccentric opening, and any of said plate openings registering therewith.

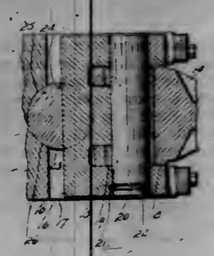
1,457,097. VACCINE AND METHOD OF PREPARING SAME. EUGENE R. WHITMORE, U. S. Army. Filed Mar. 8, 1919. Serial No. 281,474. 9 Claims. (Cl. 167—7.)

2. The method of preparing living micro-organisms for use in vaccines and like preparations, which consists

in propagating the organisms; attenuating and sedimenting the same; freezing; drying; grinding in anhydrous lipoid; and finally, grinding in neutral, sterile, anhydrous oil to discrete or separate without killing the living cells or organisms, and to individually coat them with and suspend them in the oil.

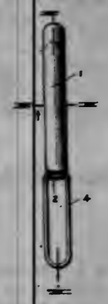
8. The herein described preparation consisting of suitably prepared living micro-organisms, discreted, suspended in, and completely enveloped by, neutral, sterile, anhydrous cotton-seed oil.

1,457,098. CONNECTION MECHANISM. RICHARD LESTER WILCOX and CLIFFORD O. PETITJEAN, Waterbury, Conn., assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 6, 1922. Serial No. 534,621. 12 Claims. (Cl. 287—93.)



1. In a device of the character described, a gate; a block movably mounted therein: and a wedge between said block and gate adjustable in relation to said gate to accommodate the relative positions of the block thereon.

1,457,099. HAIR CURLER. JOHN O. WINKS, San Francisco, Calif., assignor of one-half to Bradley L Benson, San Francisco, Calif. Filed Aug. 24, 1921. Serial No. 494,755. 2 Claims. (Cl. 132—42.)



1. A hair curler comprising a flexible tubular member, a tongue member integral with said tubular member and adapted to be inserted in said tubular member, and an elastic band engaged by said tongue member when so inserted.

1,457,100. EXTENSION LADDER. ROBERT S. BOLGER, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 26, 1921. Serial No. 503,356. 1 Claim. (Cl. 228—66.)

In an extension ladder, a bed ladder, a fly ladder, the lowermost round of which is provided with a tangential grove at one end, ladder locks carried at the lower end of the fly ladder, said locks serving to support the lowermost round of the fly ladder on a level with one of the upper rounds of the bed ladder, one of said locks being



provided with a split hub and a nut and bolt for tightening up said hub, the bolt being adapted to engage in said tangential groove.

1,457,101. ARMOR PLATE AND PROCESS OF MAKING SAME. FRANCIS BRADLEY and HARRY L. FREVERT, Philadelphia, Pa. Filed June 27, 1922. Serial No. 571,301. 3 Claims. (Cl. 148—13.)

1. The process of so treating armor plate as to render it resistant to penetration, which comprises treating the plate to produce a hardened front with a carburized face and a tough back, and then drawing the plate at a temperature not below 500 degrees F. or above 1100 degrees F., thereby removing from the front practically all its brittleness and a large portion of its hardness, while maintaining the stiffness required to offer extraordinary resistance to displacement.

1,457,102. ARMOR PLATE AND PROCESS OF MAKING SAME. FRANCIS BRADLEY and HARRY L. FREVERT, Philadelphia, Pa. Filed June 27, 1922. Serial No. 571,302. 2 Claims. (Cl. 148—13.)

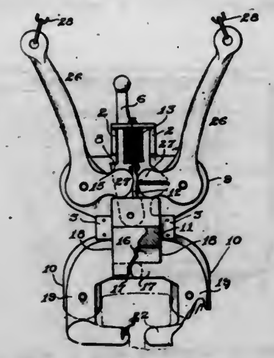
1. The process of so treating armor plate as to render is resistant to perforation, which comprises treating the plate to produce a tough back and a carburized face hardened front to a depth of from forty-five to sixty-five per cent of the thickness of the plate, and then drawing the plate at a temperature not below 500 degrees F. nor above 1100 degrees F.

1,457,103. ARMOR PLATE AND PROCESS OF MAKING SAME. FRANCIS BRADLEY and HARRY L. FREVERT, Philadelphia, Pa. Filed June 27, 1922. Serial No. 571,303. 4 Claims. (Cl. 148—13.)

1. The process of so treating armor plate as to render it resistant to perforation, which comprises treating the plate to produce a tough back and a front hardened to a depth of from forty-five to sixty-five per cent. of the thickness of the plate, and then drawing the plate at a temperature not below 500 degrees F. nor above 1100 degrees F.

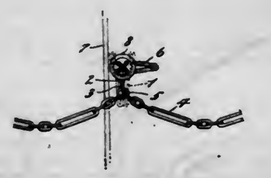
1,457,104. LIFTING TONGS. EDWIN J. CONNOR and ARTHUR R. RALSTON, Omaha, Nebr. Filed Apr. 12, 1922. Serial No. 551,863. 7 Claims. (Cl. 294—116.)

1. An apparatus for the purpose set forth comprising a pair of opposed coacting load-engaging jaws, a locking head arranged above and adapted to engage between the jaws to lock them to a load, means acting constantly on the head and actuated by a lifting force to move it into



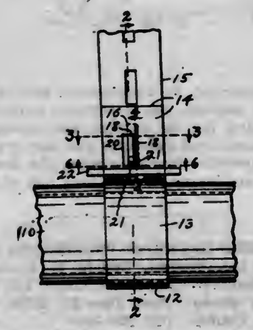
engagement with the jaws, and means for withdrawing the head from between the jaws when the lifting force is removed.

1,457,105. WATCH-CHAIN HOLDER. CHARLES H. J. DILG, New York, N. Y. Filed Feb. 11, 1922. Serial No. 535,707. 4 Claims. (Cl. 24—3.)



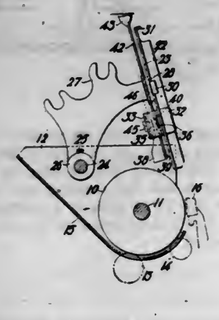
1. A holder for watch chains and the like comprising a retaining member adapted to bear against the rear face of a garment above and below a button hole and having its top part bifurcated to straddle the button securing means, and a stem outstanding from substantially the bottom of the bifurcation adapted to extend through the button hole and having chain-engaging means at its outer end.

1,457,106. PIPE HANGER. JOHN B. ESTEP, Cleveland, Ohio. Filed Apr. 10, 1922. Serial No. 551,231. 6 Claims. (Cl. 248—31.)



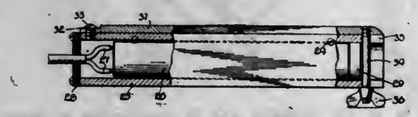
1. A pipe-hanger comprising a metal strap which is adapted to extend under and form a seat for a pipe and has two opposite flexible portions arranged and contoured as required to embrace opposite sides respectively of said pipe and spaced at their upper ends and each terminating at its upper end in an upwardly projecting arm, a supporting member which is adapted to support said strap and extends between the upwardly projecting arms of said opposite portions of the pipe-embraceable strap and is provided between said arms with a hole extending laterally through the strap-supporting member and having a bottom wall, and a collar adapted to hold said arms in close relation to said strap-supporting member, each of said arms having a tongue which projects through the aforesaid hole and into the other of said arms and is adapted to rest on the aforesaid wall.

1,457,107. TYPEWRITING MACHINE. EWELL E. FOWLER, East Point, Ga., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 10, 1920. Serial No. 372,968. 10 Claims. (Cl. 197—142.)



1. In a typewriting machine, the combination with a platen and a paper-table having an opening, of a side gage upon the table, a resilient member behind the table and fast thereto, a turned-up end of said member projecting through an opening in said table to form a second gage, a cam pivoted on the table between it and the member, and a finger-piece extending beyond the table for swinging the cam to make the second gage ineffective at will.

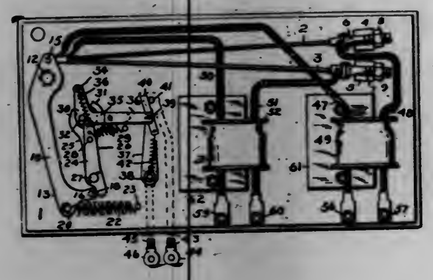
1,457,108. ELECTRICALLY-HEATED FORMER FOR ROUNDING THE BACKS OF BOOK COVERS. ADOLPH TROST, Chicago, Ill., assignor to Joseph J. White, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,342. 2 Claims. (Cl. 11—3.)



2. In a casing-in machine, the combination of a magazine for receiving the book covers, means for feeding the covers from said magazine to the casing-in mechanism, and an electrically heated rounding former in the bottom of said magazine for rounding the backs of said covers before feeding the same to said casing-in mechanism, said rounding former comprising a housing extending parallel to and below the backs of the book covers, an electrical heating element in said housing, a convex

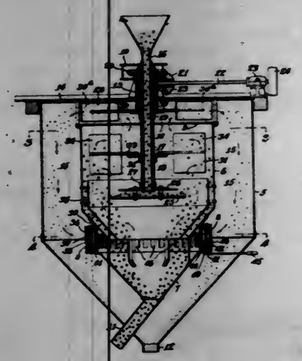
form secured to the upper wall of said housing, and an attaching bolt extending between said form and an opening in said housing, whereby said form can be conveniently substituted.

1,457,109. OVERLOAD DEVICE. HOMER E. FROST, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 1, 1921. Serial No. 488,990. 5 Claims. (Cl. 200—113.)



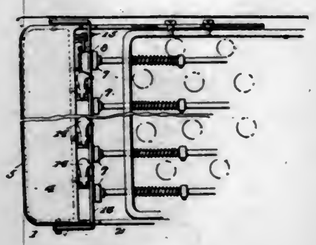
1. In an overload device for alternating current systems, two expansive wires, one in each of two phases, an overload switch controlling the opening of the circuit of the wires, and means for tripping the switch when either or both of the wires expand a predetermined distance, but with less consumption of current when one wire is open circuited.

1,457,110. AIR SEPARATOR. RUBERT M. GAY, Hanover, N. J. Filed Apr. 6, 1921. Serial No. 459,055. 8 Claims. (Cl. 83—54.)



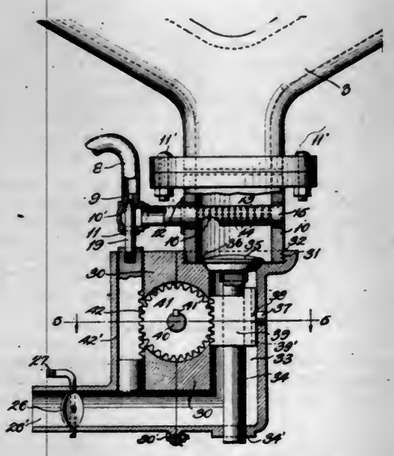
1. In an air separator and in combination, a frame structure having a separating chamber to receive material to be separated, said chamber having an air inlet opening in the lower portion thereof and an air outlet opening in the upper portion thereof, a movable device adapted to be actuated to induce a current of air in an upward direction through said chamber, and a movable device adapted to be actuated to rotate said current of air within said chamber, the last named movable device being spaced a substantial distance from said outlet opening to produce a substantial classifying zone between them.

1,457,111. FINGER-ACTUATED KEY-OPERATED MACHINE. FREDERICK P. GORIN, Seattle, Wash. Filed July 16, 1920. Serial No. 396,708. 12 Claims. (Cl. 197—176.)



1. A series of tabulating keys, a mask, and means whereby said mask is normally cooperative with a single key and means whereby the mask selectively cooperates with any other key.

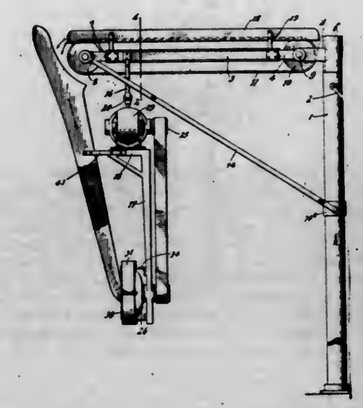
1,457,112. CARBURETOR. DENNIS A. GORMLEY and DANIEL W. REID, Atlantic City, N. J. Filed Aug. 16, 1920. Serial No. 404,010. 2 Claims. (Cl. 261—51.)



1. In a carburetor, in combination with a body providing an air passage, and a throttle, a fuel atomizing tube intersecting the air passage and provided with a plurality of small fuel apertures and also provided with a larger air aperture directed against the flow of air in said passage, and means for supplying fuel to the tube at one end.

1,457,113. MOLD-MATERIAL-PROJECTING MACHINE. EDWARD P. LANGWORTHY, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed June 15, 1920. Serial No. 389,101. 5 Claims. (Cl. 22—36.)

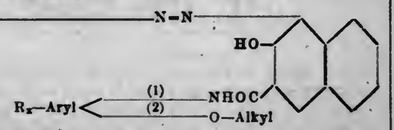
1. A molding machine comprising a support, a rotary member mounted thereon having a recessed central portion and a horizontally-projecting peripheral flange portion extending therefrom, tapering radially-disposed blades in said recessed central portion and curved blades fixed upon said horizontal portion adjacent to the outer ends of said tapering blades, a casing enclosing said rotary



member and provided with a central inlet, means for delivering mold material to said inlet; said casing having an outlet, and means for actuating said rotary member to project the mold material through said outlet, substantially as specified.

1,457,114. AZO DYESTUFFS AND PROCESS OF MAKING SAME. AUGUST LEOPOLD LASKA and ARTHUR ZITSCHER, Offenbach-on-the-Main, Germany, assignors to the corporation Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed Jan. 8, 1923. Serial No. 611,503. 4 Claims. (Cl. 134—92.)

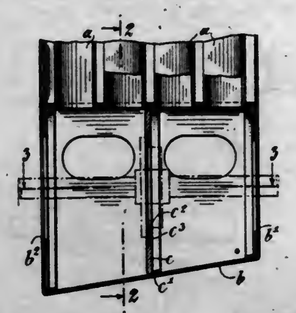
1. As new articles the azodyestuffs, which can be obtained by combining any diazo-compound with an ortho-alkyloxyarylid of 2.3-oxynaphthoic acid, having probably the general formula:



wherein R means hydrogen or any radicle, which can be used for the production of color lakes of an excellent fastness to light and give, when produced on the fiber, orange to blue and black shades of a singular fastness to light, they are when dry orange to blue and black powders, insoluble in water, soluble in sulfuric acid to a violet to green solution yielding upon reduction withstannous chloride an amin and an ortho-alkyloxyarylamin of the 1-amino-2-oxy-3-naphthoic acid.

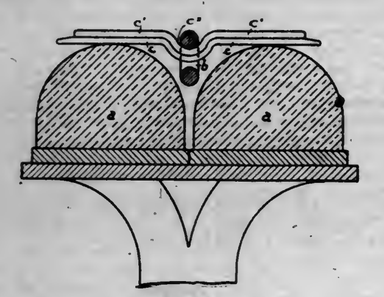
1,457,115. METHOD OF ASSEMBLING MIDDLE BEARINGS FOR INTERNAL-COMBUSTION MOTORS. AUGUST H. LEIPERT, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 2, 1921. Serial No. 497,937. 3 Claims. (Cl. 29—149.5.)

1. The herein described method to provide a mounting for a center bearing to insure its alinement with the end bearings, which consists in securing a center partition within the crank case, introducing a cutting tool through the end main bearings and boring out a center circular



opening in said partition with said cutting tool co-axially with said end main bearings.

1,457,116. ANTISKIDDING DEVICE FOR DUAL TIRES. WALTER LION, Dresden, Germany. Filed Oct. 28, 1921. Serial No. 511,896. 2 Claims. (Cl. 152—2.)



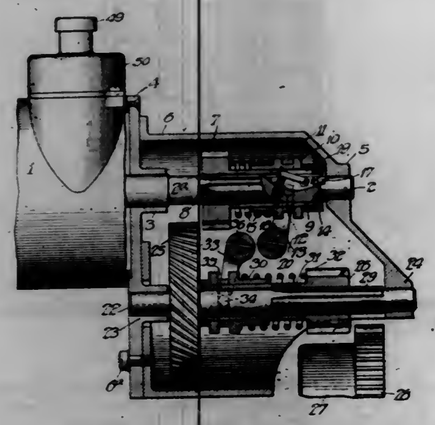
1. An anti-skidding device for dual tires having in combination a chain disposed between the tires and metal treads loosely mounted in the links and held in contact with the tires.

1,457,117. AUTO CREEPER. SAMUEL LONDON and LOUIS WEDER, Newark, N. J. Filed Aug. 10, 1920. Serial No. 402,595. 4 Claims. (Cl. 280—61.5.)



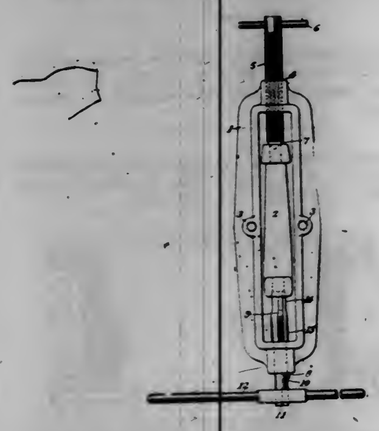
1. A creeper comprising a frame-work consisting of longitudinally extending side-bars, laterally extending end-bars, and intermediately placed and laterally extending auxiliary bars, a body-supporting medium attached to and carried by said longitudinally extending side-bars and said laterally extending auxiliary bars, and a pair of rollers secured to the lower surface of each end-bar and its adjacent auxiliary bar, one set of rollers being larger than the other set of rollers, so as to provide an inclined body-support.

1,457,118. ENGINE STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Aug. 25, 1920. Serial No. 405,835. 35 Claims. (Cl. 74—7.)



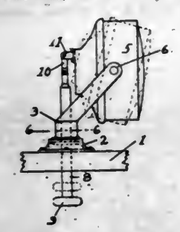
1. An engine starter drive comprising a driving shaft, a driving member mounted thereon for longitudinal movement thereof and rotary movement therewith, a driven member with which the driving member engages when moved longitudinally, a device which cooperates with such driving member and which when shifted moves the same longitudinally, and means for holding such device in its shifted position and permitting the release thereof upon full engagement between said members.

1,457,119. AXLE-BEARING-REPAIRING TOOL. JOHN J. MCGUCKIN, Brooklyn, N. Y. Filed Aug. 5, 1921. Serial No. 490,041. 4 Claims. (Cl. 77—2.)



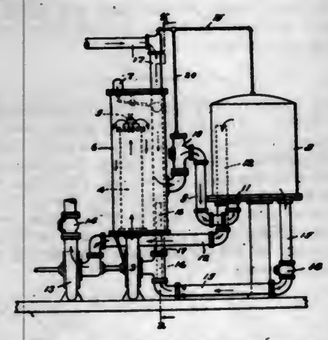
1. An axle bearing repairing tool, embodying a centrally slotted frame adapted to straddle the axle lugs, a feeding and centering screw threaded through one end of said frame, said screw having a larger diameter than the axle pin, and provided with a centering end, and a machining tool rotatively mounted in the other end of the frame, the end of the feed screw and the free end of the tool being adapted to enter the opposite ends of the axle-pin socket, and to center the tool in operative relation thereto.

1,457,120. SPOTLIGHT. CHARLES LOUIS MADDEN, Bay City, Mich. Filed July 27, 1920. Serial No. 399,320. 1 Claim. (Cl. 240—7.)



In combination, a centrally apertured base, a pair of angularly disposed branching arms revolvably mounted on said base, a lamp case horizontally pivoted at its sides between the ends of said arms, said pivoted connection being laterally offset with respect to the axial line of said base, a rearward projection on the back wall of said lamp case, a rod longitudinally slidable in the aperture of said base and in substantial alignment with the outer end of said projection, a link pivotally connected at its lower end to the upper end of said rod and pivoted at its upper end to the outer end of said projection.

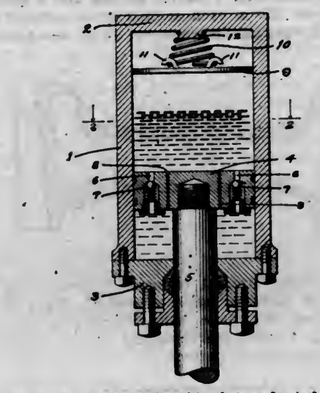
1,457,121. TURBINE OR CENTRIFUGAL VACUUM PUMP DEVICE. JAMES D. MUDGE, Seattle, Wash.; Nina S. Mudge administratrix of said James D. Mudge, deceased. Filed Oct. 13, 1919. Serial No. 330,356. 3 Claims. (Cl. 103—1.)



1. A device of the class described embodying an inlet or return pipe, a vacuum pump to pump fluids and liquids out of said return pipe, a discharge pipe for said pump, a check valve in said discharge pipe, a discharge chamber enclosing the outlet of said discharge pipe, a vapor or gas relief valve for said discharge chamber, a receiving tank, a connecting pipe between said discharge chamber and said receiving tank, a check valve in said connecting pipe, an outlet pipe for said receiving tank, a second pump to act upon the liquids in said outlet pipe, a check valve in the discharge outlet of said last named pump, a second outlet pipe for said receiving tank connecting said receiving tank and said first named pump, and a pressure adjusting pipe connecting said inlet or return pipe and said receiving tank.

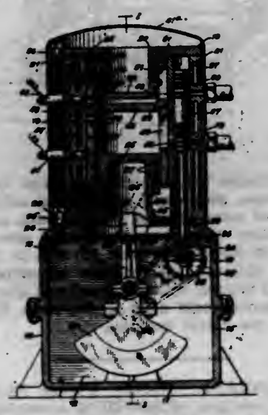
1,457,122. SHOCK ABSORBER. ALBERT C. REE, Libertyville, Ill. Filed Apr. 13, 1920. Serial No. 373,635. 1 Claim. (Cl. 188—88.)

A shock-absorber, including a fluid container having therein a piston provided with fluid passages, means for closing certain of said passages on the down stroke of the piston, a plate suspended within said container and provided with integral fingers engaging its supporting means, said means comprising a coiled spring the other end of which engages a projection formed integral with



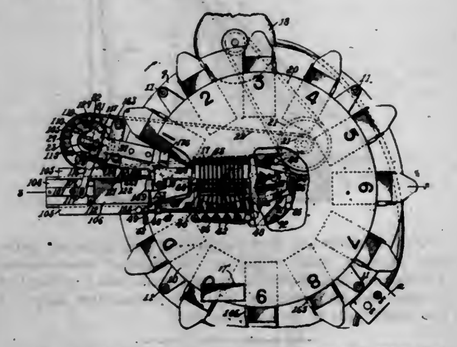
the container head, and said plate adapted to close all passages within the piston on the extended upward movement of the same.

1,457,123. COMBUSTION ENGINE. ARTHUR A. RIGNY, Milford, Pa. Filed Nov. 22, 1921. Serial No. 517,001. 3 Claims. (Cl. 123—61.)



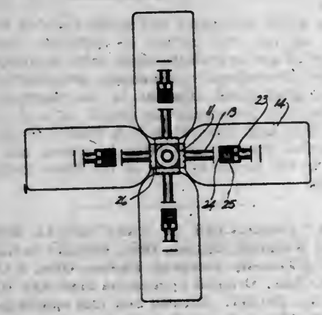
3. In a double acting internal combustion engine, a crank case, a vertical cylinder block mounted above said crank case, a lower cylinder head disposed between said block and said crank case, said head having an upstanding cylindrical portion arranged within said block with its walls spaced therefrom, piston rings surrounding said cylindrical portion, an upper cylinder head similar in shape to said lower cylinder head being mounted on the top of said block with its cylindrical portion extending downwardly within said block, piston rings surrounding the cylindrical portion of said upper cylindrical head, flanges upon said blocks, at the top and bottom thereof, means passing through said flanges to secure said cylinder heads in position relative thereto, a piston with opposite cylinder extensions cooperating with said cylinder block to divide the block into upper and lower combustion combustion chambers, one side of said block having circular openings formed therein, spark plugs mounted therein, each of said extensions of said piston having intake and exhaust openings therein corresponding in size and number to the spark plug openings in the cylinder block, the piston openings permitting communication between the spark plug openings and the combustion chambers at the proper times during the operation of the engine, elongated intake and exhaust ports in the wall of each extension of the piston opposite from the above mentioned piston openings, the wall of said block opposite from said spark plug openings having circular intake and exhaust ports to register with said elongated ports, and reciprocating plunger valves for controlling the opening and closing of said circular ports.

1,457,124. CARD-SORTING MACHINE. FRANK C. RINSCHE, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 5, 1917. Serial No. 140,705. 21 Claims. (Cl. 214—11.)



1. In a device of the class described, a card magazine, means for feeding cards singly therefrom, a series of card receptacles, a distributer movable into registry with said card magazine and card receptacles, intermittently acting means for moving the distributer successively into registry with the magazine and respective receptacles, means operable when the distributer is at rest in registry with the magazine for delivering a card from the magazine to the distributer, a stripping device associated with each receptacle and movable into and out of position to strip a card from the distributer, mechanical means for moving each said stripper into operative position, and selective means on the distributer which may be set when the distributer receives a card adapted to operate said mechanical means to actuate the stripper.

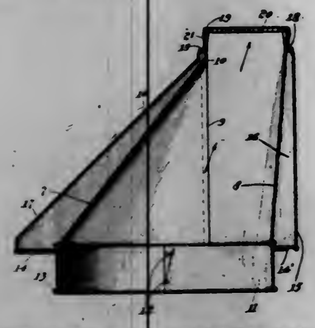
1,457,125. FAN. CONRAD ROSINE, Chicago, Ill., assignor of one-half to William Robertson, Chicago, Ill. Filed Oct. 24, 1921. Serial No. 510,002. 2 Claims. (Cl. 170—160.)



1. In a device of the class described, a rotatable member having a polygonal extension at one end, the faces of said polygonal extension being provided with grooves,

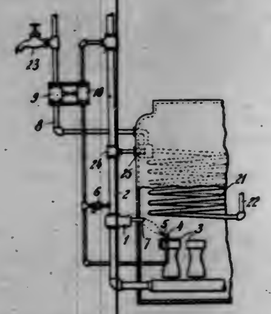
supports extending centrally of said faces, and fan blades yieldingly mounted upon said supports with their inner edges yieldingly pressed into said grooves for the purpose set forth.

1,457,126. PIPE CONNECTION OR BOOT. ALBERT G. SCHERER, Chicago, Ill., assignor to Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1922. Serial No. 569,859. 5 Claims. (Cl. 137—75.)



2. A boot for air duct comprising two tapering walls, one of said walls being of rectangular cross-section throughout, and the other of said walls being cylindrical at one end and merging into the rectangular shape of the other wall at its opposite end.

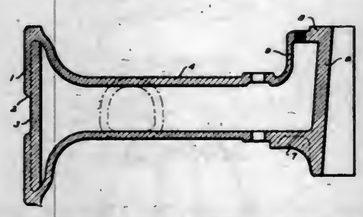
1,457,127. SAFETY GAS-CONTROL SYSTEM. CONRAD SCHUCK, Jr., and GEORGE LAYER, East Orange, N. J. Filed May 13, 1922. Serial No. 560,546. 12 Claims. (Cl. 67—116.)



1. In a safety gas supply and igniting system for burners and the like, the method of indirectly controlling the supply of gas to a thermostatic valve controlled main burner which comprises continuously maintaining a non-impinging pilot flame adjacent to the thermally actuated valve and increasing the length of said flame to impinge upon said valve when it is desired to ignite the main burner, whereby the valve is opened and gas is supplied to the burner as long as the flame impinges on said valve.

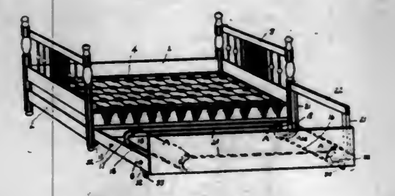
1,457,128. PRODUCING OF CAST METAL WHEELS. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Original application filed May 10, 1920, Serial No. 380,217. Divided and this application filed June 16, 1921. Serial No. 478,131. 2 Claims. (Cl. 22—13.)

1. The combination with a pattern for a cast wheel comprising a master portion and a series of interchangeable hub ends, each of the same external diameter but varying one from the other in length; of a core box for a hub core comprising a master portion and a series of interchangeable fillers, each of said fillers varying from the others in external diameter and all of said fillers be-



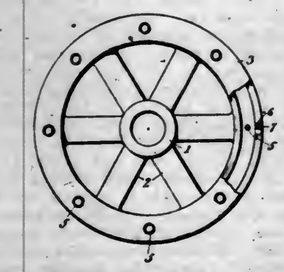
ing of the same internal diameter whereby they are adapted to fit interchangeably a common place on the master core box, said fillers further varying the one from the other in lengths corresponding to the detachable elements of the master pattern.

1,457,129. EXTENSION BED. EDMUND E. WANAMAKER, New Hartford, N. Y. Filed Apr. 5, 1921. Serial No. 458,691. 1 Claim. (Cl. 5—21.)



In an extension bed, an extension frame supporting a spring mattress, rock shafts mounted on said extension frame, curved arms adapted to rock with said shafts, rods connecting the upper ends of said arms, whereby said arms will move in the same direction to elevate and lower said mattress, and brackets supporting a cross piece, formed integral with certain of said arms, whereby to aid in moving said arms in the same direction to elevate and lower said mattress.

1,457,130. PULLEY. WARREN WESLEY YALE, Chickasha, Okla., assignor of one-half to Alexander B. Hickman, Chickasha, Okla. Filed Mar. 23, 1921. Serial No. 454,649. 3 Claims. (Cl. 64—18.)

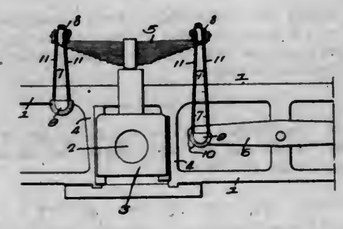


1. A pulley wheel provided with a peripheral chamber adapted to contain an antislipping substance, and means for feeding said substance to a belt adapted to pass over said pulley wheel.

1,457,131. CELLULOSE ACETATE. JOH OLGIERD ZDANOWICH, London, England. Filed Nov. 27, 1922. Serial No. 603,660. 7 Claims. (Cl. 260—101.)

1. An improved process for obtaining acetose in a condition for the direct production of films, filaments and the like by extrusion in or into a coagulating bath according to which the acetose is formed by reacting on cellulose with halogen acetic acids produced in the presence of cellulose in an acetylating mixture containing a large proportion of a non-precipitating solvent, namely, about nine times the weight of the cellulose, reaction being completed in the presence of a small proportion of a strong condensing agent, namely, not more than about 2 per cent of the weight of the cellulose.

1,457,132. COUPLING FOR EQUALIZING APPARATUS FOR LOCOMOTIVES. GEORGE C. ABBE, Lansdowne, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1921. Serial No. 453,251. 6 Claims. (Cl. 105—82.)



1. The combination of a locomotive frame; an equalizing lever pivoted to the frame; an axle box; a spring mounted on the axle box; and a flexible member connecting the spring to the lever and frame.

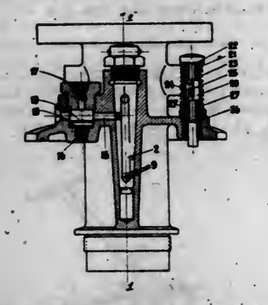
1,457,133. CLASP. JOSEPH ACITO and PAUL TIMEN, New York, N. Y., assignors to Stap Co., New York, N. Y., a Corporation of New York. Filed Aug. 17, 1922. Serial No. 582,381. 4 Claims. (Cl. 24—230.)



1. A clasp having a head provided with an elongated slot, a catch for disposition in said slot through turning movement relatively to the head, a cross head on said catch, said cross head adapted for disposition within the slot to resist displacement of the catch from said slot in a direction transversely of the head, and an abutment located out of said slot and within the head for engagement by said cross head to limit longitudinal movement of the latter in one direction.

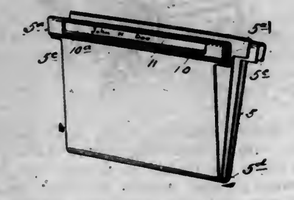
1,457,134. SPRAY CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. BRUNO ADLER, Dresden, Germany. Filed Aug. 22, 1922. Serial No. 583,582. 1 Claim. (Cl. 261—72.)

In combination with a carburetor having a float chamber and a mixture passage, a conduit connecting said mixture passage and float chamber, an air inlet orifice in said conduit and a tickler having a valve on its stem and means for normally holding said tickler raised and



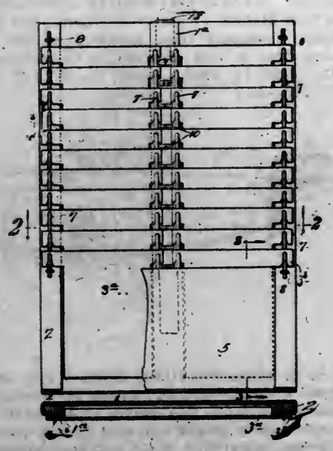
alternative means for fixing the raised position of the tickler so that in one raised position the valve is held open and in the other the valve is closed.

1,457,135. FOLDABLE CARD. ZEMACH AUERBACH, New York, N. Y. Filed Apr. 6, 1922. Serial No. 550,233. 5 Claims. (Cl. 129—16.7.)



1. A card of the class described, comprising a piece of flexible material having lateral projections at its ends, the material being folded between its ends and provided with lateral projections adjacent to such fold.

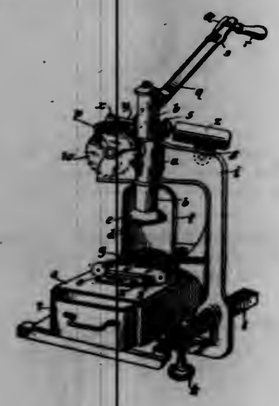
1,457,136. FILING RACK. ZEMACH AUERBACH, New York, N. Y. Filed Apr. 6, 1922. Serial No. 550,234. 1 Claim. (Cl. 129—16.)



A rack of the class described comprising a body having series of spaced stops spaced apart to receive and support folders or cards therebetween, a strip extending along the front of the rack and provided with spaced

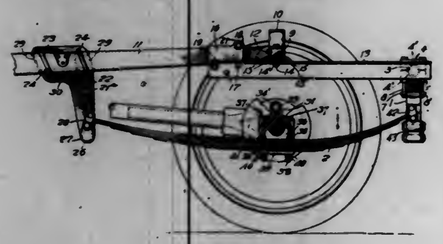
openings corresponding in relation to the several stops, and a strip of material provided with spaced time designations fitted to the rack along said strip to show the time designations through said openings.

1,457,137. MACHINE FOR CUTTING UP FRUITS AND VEGETABLES OF ALL KINDS, ESPECIALLY POTATOES. HENRI BARBEY, Schiltigheim, Alsace, France. Filed Sept. 25, 1922. Serial No. 590,366. 9 Claims. (Cl. 146—7.)



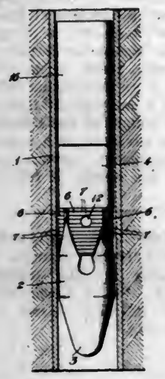
1. In a cutting machine of the class described, the combination with a supporting bracket having an opening in the upper end thereof, a reciprocating punch having a serrated pressing surface extending through said opening, a segmental rack operatively connected to said punch, stationary cutters positioned beneath said punch, longitudinally movable knives below said cutters, means for regulating the downward movement of said punch associated with said rack, thereby regulating the amount of vegetable cut off by said movable cutters, and means connected to said rack for actuating said punch.

1,457,138. PLATFORM-SPRING SUSPENSION FOR AUTOMOBILES. ANDREW J. BARRON and HOWARD E. CROW, Cincinnati, Ohio, assignors to The Cincinnati Horse Shoe & Iron Company, a Corporation of Ohio. Filed Sept. 12, 1922. Serial No. 587,732. 6 Claims. (Cl. 276—36.)



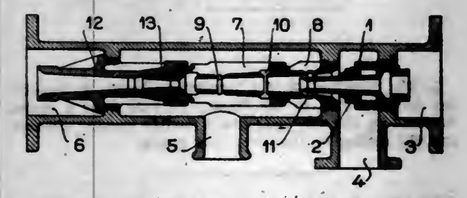
1. In an automotive vehicle having a rear axle-housing provided with a flanged end having an opening, a saddle on said axle-housing, and having a portion thereof bearing against said flanged end, said portion provided with an opening registering with said flanged-end opening, saddle-securing means passing through said registering openings, a side spring underslung relative to said axle-housing, and means for supporting said slide spring from said saddle.

1,457,139. FISHING TOOL. ASA L. BELL and THOMAS E. RAINES, Shreveport, La. Filed July 3, 1922. Serial No. 572,676. 6 Claims. (Cl. 294—86.)



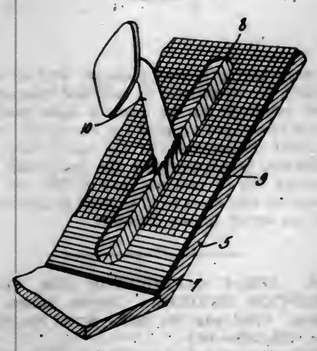
1. A fishing tool comprising a head, expansible jaws carried by the head, and fluid pressure means connected to the head and the said jaws for expanding the latter, substantially as described.

1,457,140. INJECTOR. EMANUEL BLAUHORN, Vienna, Austria. Filed Aug. 22, 1921. Serial No. 494,139. 6 Claims. (Cl. 162—1.)



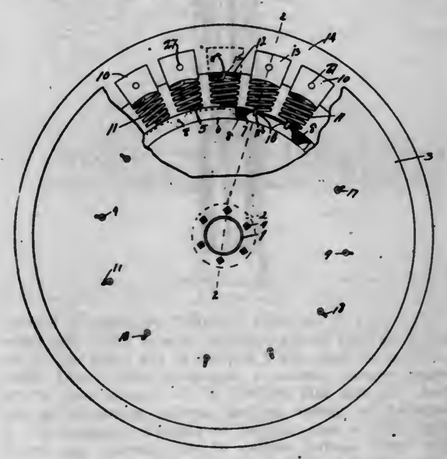
1. A delivery cone for injectors having a diverging bore, the cone comprising relatively separable constituent elements one of which forms the part of the bore which is of smallest cross section.

1,457,141. MAT. WALTER L. BOCKOVER and JOHN W. MCNAMARA, Tipton, Ind. Filed Jan. 12, 1922. Serial No. 528,830. 1 Claim. (Cl. 74—81.)



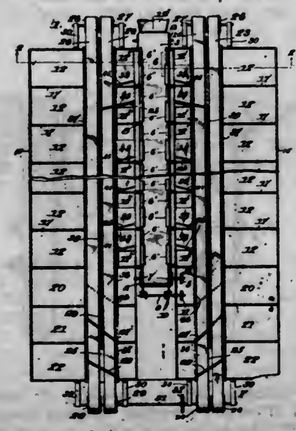
In combination with a pedal shank and the walls of the slot in which the same operates, a floor mat including a plurality of flexible fingers inclined towards one end of the slot, and a cover plate having an opening and adapted to be positioned on the mat, and said fingers adapted to closely engage the pedal shank.

1,457,142. VEHICLE WHEEL. FLETCHER O. BOSWELL, Philadelphia, Pa. Filed Oct. 11, 1920. Serial No. 416,106. 2 Claims. (Cl. 152—29.)



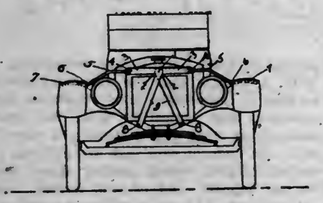
1. In a vehicle wheel, the combination of a hub, a ring concentric with said hub, two discs bolted to said hub and ring, a sectional rim fitted to slide between the discs, each section of said rim having a curved bottom, a spring interposed between each of said sections and the ring, the ends of said spring projecting through the bottom of its section and ring, and a rubber tire fitted within the sectional rim.

1,457,143. APPARATUS FOR THE SIZING AND DISTRIBUTION OF FRUIT. ERNEST M. BROGDEN, Winter Haven, Fla., assignor to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Oct. 3, 1922. Serial No. 592,153. 11 Claims. (Cl. 130—32.)



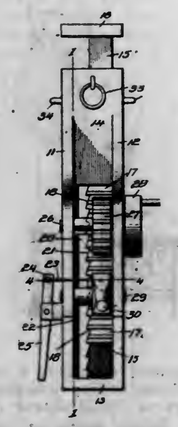
1. Apparatus for sizing fruit which comprises the combination, with sizing means having a series of graduated sizing outlets, and a cooperating series of receptacles each arranged normally to receive sized fruit delivered from a corresponding one of said outlets, of auxiliary receptacle means, and means whereby fruit delivered from any of said outlets may be diverted to said auxiliary receptacle means without interfering with the normal delivery of fruit from the other outlets to their respectively cooperating receptacles.

1,457,144. FENDER BRACE FOR AUTOMOBILES, CARRIAGES, AND THE LIKE. FRED L. BRONSON, Wichita Falls, Tex. Filed Oct. 3, 1922. Serial No. 592,180. 1 Claim. (Cl. 280—152.)



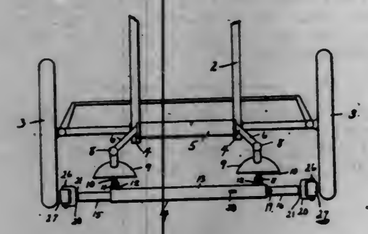
A brace for the wheel fenders of a motor vehicle, comprising arms arranged in front of and extending transversely of the radiator and having their outer ends attached to the fenders, arms extending downwardly from the inner ends of said first arms and attached at their lower ends to a convenient portion of the vehicle adjacent the base of the radiator, and means pivotally connecting the first named arms.

1,457,145. JACK PROP. STEPHEN L. BUCHANAN and FRANK J. LYTTON, Coeburn, Va. Filed July 17, 1922. Serial No. 575,705. 2 Claims. (Cl. 254—95.)



1. A mine prop comprising a tubular support, a stock provided with a bearing head and movable in said support, said stock having gear teeth in one face and ratchet teeth in another face, a bar movable in said support and having ratchet teeth adapted to be engaged with the ratchet teeth of the stock, an operating appliance carried by said support and engageable with the gear teeth of the stock, and means carried by said support for disengaging the bar from the stock.

1,457,146. AUTOMATIC HEADLIGHT TURNER. MATTHEW J. CANAVAN, Dunmore, Pa. Filed Aug. 8, 1921. Serial No. 490,469. 3 Claims. (Cl. 240—62.)



1. An automatic head light turner comprising in combination with a vehicle and the front wheels thereof, brackets secured to the vehicle, lamp standards journalled in said brackets, legs projecting from the lower ends of said standards at right angles thereto, a barrel having lugs to which the ends of said legs are pivoted, a sleeve fixed in one end of said barrel, another sleeve adjustably mounted in the opposite end of said barrel, means for holding said last named sleeve in different positions, forks slidably mounted in the outer ends of said sleeves, means for normally forcing said forks outward, and rollers journalled in said forks for coaction with the vehicle wheels.

1,457,147. REDUCING GARMENT. BLANCHE CERVELLI, San Francisco, Calif. Filed Aug. 15, 1922. Serial No. 582,060. 3 Claims. (Cl. 2—73.)



3. A reducing garment comprising a bust portion and a hip portion, said bust portion consisting of a sheet of material adapted to be placed around the bust of the wearer, said sheet having means for securing its ends together at the back of the wearer to place said sheet under tension whereby the enclosed portion of the body of the wearer is drawn rearwardly, said hip portion consisting of a single sheet of material impervious to air adapted to encircle the body of the wearer above and below the hips, the front portions of said sheet converging from points near the hips to the ends of the sheet, and means for securing the ends together to adjust the tension of the sheet and to draw the enclosed portion of the body of the wearer forwardly.

1,457,148. WELL PLUG. ROBERT J. CRABBE, Weston, W. Va. Filed Mar. 27, 1922. Serial No. 547,130. 4 Claims. (Cl. 166—13.)

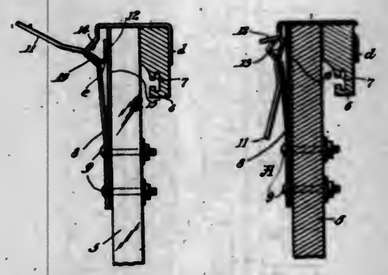


1. A plug of the class described comprising a counter bored mandrel having reversely tapered upper and lower external portions, and a stop rib at the upper end of the upper tapered portion, a supporting disk, a stud rising from the disk and received in the counter bore of the mandrel, a tubular packing member supported by the disk with a bore tapered to conform substantially to the lower tapered portion of the mandrel, and breakable means for coupling the mandrel to the stud.

1,457,149. PREPARING ALUMINUM OR ITS ALLOYS FOR ELECTROPLATING. HARRY DOUGLAS CUNNINGHAM, Brighton, England. Filed May 10, 1920. Serial No. 380,360. 5 Claims. (Cl. 91—68.2.)

1. The process of electro-plating articles of aluminum and its alloys, comprising an initial cleaning of the article, then treating the article with a mixture of an abradant and a solution of copper sulphate so as to remove oxide and simultaneously impart a coating of copper to the article, and finally electroplating the article.

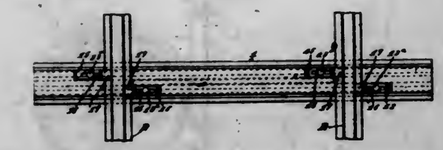
1,457,150. CLAMPING DEVICE. MICHAEL J. DE GRAVE, Chicago, Ill. Filed Feb. 11, 1922. Serial No. 535,805. 2 Claims. (Cl. 45—24.)



1. In a clamping deivce comprising in combination with a pair of curtain stretching members arranged substantially at right angles with respect to each other and a clamping plate of an opening formed in the body of said plate, there being outwardly fixed portions of said plate

at opposite sides of said opening; and a lever having one end passing through said opening, for engagement with the adjacent stretching member whereby said stretching members are clamped together by movement of the lever in one direction, said lever having trunnions on said lever adapted to engage recesses formed by the fixed portions of said plate.

1,457,151. CONCRETE TIE AND RAIL CLAMP. WILLIAM TAYLOR DICKEY, Portsmouth, Va., assignor to American Concrete Tie Corporation, Portsmouth, Va. Filed Sept. 7, 1922. Serial No. 586,697. 4 Claims. (Cl. 238—89.)



1. A cement railroad tie having bolt receiving openings therein and sockets adjacent said openings, rail clamps mounted on said bolts and having toes to enter said sockets, said toes being beveled on their outer faces at their terminals to exert pressure at an oblique angle on the tie.

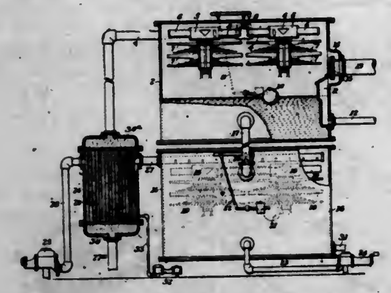
1,457,152. ADJUSTABLE STEP FOR AUTOMOBILE RUNNING BOARDS. JOSEPH DISCH and JOHN G. FRESE, St. Louis, Mo. Filed May 27, 1922. Serial No. 564,024. 1 Claim. (Cl. 280—169.)



A step of the character described comprising an ornamented foot plate having a front contacting flange, a scraper formed by said flange, said plate attached to the running board and a toe section slidably mounted on said plate and brought in contact with the body of the machine, thereby taking the full depth of the running board, substantially as specified.

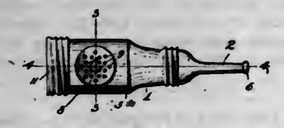
1,457,153. WATER HEATING AND DEGASIFYING APPARATUS. WILLIAM S. ELLIOTT, Pittsburgh, Pa. Original application filed Mar. 31, 1915, Serial No. 18,268. Divided and this application filed Mar. 29, 1917. Serial No. 158,238. 13 Claims. (Cl. 183—25.)

1. In apparatus for deaerating liquid, a receiver having a liquid space and a steam space, a service connection leading from the liquid space of said receiver to convey substantially air-free liquid therefrom to a point of utilization of such liquid, automatic means for supplying to said receiver substantially wholly in accord with the demands of said service connection liquid which is at a temperature higher than the temperature in said receiver and which has a substantially constant difference



in temperature thereover, and means connected to said receiver for maintaining said substantially constant difference in temperature.

1,457,154. SMOKER'S ACCESSORY. THOMAS C. ERSKINE, Columbus, Ohio. Filed Feb. 7, 1921. Serial No. 442,916. 2 Claims. (Cl. 131—51.)



2. A smoker's accessory comprising a mouth piece, having a socket formed in one end thereof for the reception of an article of tobacco, a metallic casing removably positioned upon one end of said mouth piece, said casing including a longitudinally extending chamber arranged to receive and enclose an article of tobacco projecting from the socket of said mouth piece, the outer end of said casing being provided with a perforated wall, and a perforate dome formed with and projecting from said casing at a point intermediate of its length.

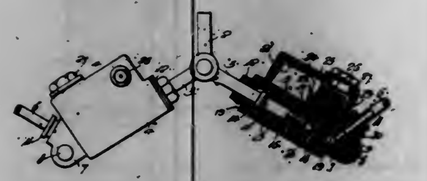
1,457,155. CONTAINER. FRANK E. FEY, Seattle, Wash., assignor of one-half to Eugene A. Balsley, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 536,323. 9 Claims. (Cl. 220—5.)



1. A stamped metal container comprising two sections, the adjacent ends of which are open and the remote ends of which are closed, said sections tapering toward their closed ends, a ring surrounding each section adjacent its open end and provided with spaced outwardly extending lugs projecting toward the other section, the lugs of one section projecting between the lugs of the other section, the lugs of said sections having beveled faces coacting to form an interrupted outwardly flaring annular channel extending around said container, a split locking ring having a beveled rib extending into said annular channel, means for tightening said ring to draw said sections toward each other, a gasket confined between

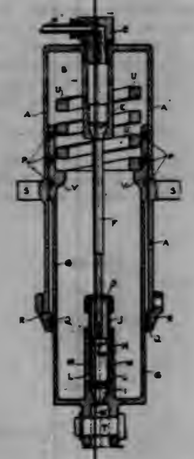
the adjacent ends of said sections, and an annular guard ring surrounding each section adjacent the cam ring of said section and projecting outwardly beyond said cam ring.

1,457,156. PRESSURE-EQUALIZING BRAKE-APPLYING DEVICE. OSCAR J. FROCK, Wilmington, Del. Filed May 12, 1922. Serial No. 560,429. 13 Claims. (Cl. 138—23.)



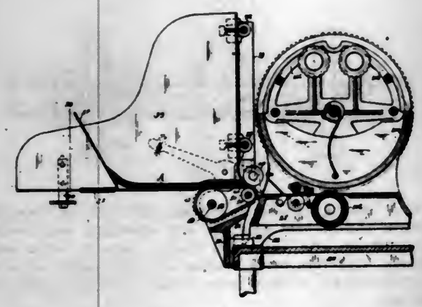
1. In a hydraulic brake applying structure, cylinders pivotally mounted for swinging movement towards and away from each other, pistons in the cylinders having piston rods extending through the free ends of the cylinders in converging relation, and operating means including a plunger having one end pivotally connected with the outer ends of said piston rods for imparting movement to the rods and pistons and setting up brake applying pulsations in columns of fluid leading to fluid brakes.

1,457,157. PNEUMATIC SUSPENSION FOR WHEELED VEHICLES. ALEXANDER GALBRAITH, Dalmuir, Scotland. Filed Nov. 25, 1921. Serial No. 517,608. 5 Claims. (Cl. 267—65.)



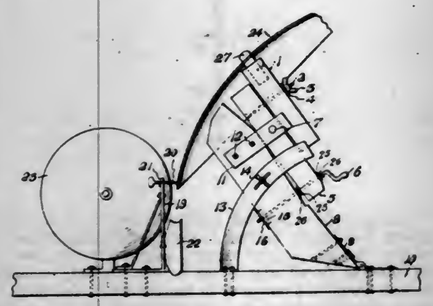
1. A pneumatic suspension device for wheeled vehicles comprising a pair of hollow cylinders, telescoping one within the other and closed at their outer ends, one cylinder adapted to be connected to the body and the other to the running gear, an inlet connection to a supply of pressure air in the closed end of one cylinder and an outlet to the atmosphere in the closed end of the other cylinder, valve seats at said inlet and outlet ports, valves normally resting on said seats, the inlet valve having a pendent valve stem connected with lost motion to the outlet valve and serving to operate both valves in predetermined position of the cylinders.

1,457,158. MECHANISM FOR FEEDING PAPER, CARDS, ENVELOPES, ETC. HARRY C. GAMMETER, Cleveland Heights, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 7, 1920. Serial No. 415,344. 18 Claims. (Cl. 271—35.)



1. In a paper feeding mechanism, the combination with a propelling belt having its upper reach positioned to support the forward portion of a stack of paper, of a retarding device cooperating with said belt, and a movable lever carrying the retarding device.

1,457,159. PLOWDISK-SHARPENING MACHINE. CARL T. GROVE, Great Falls, Mont. Filed Mar. 20, 1922. Serial No. 545,373. 3 Claims. (Cl. 51—236.)

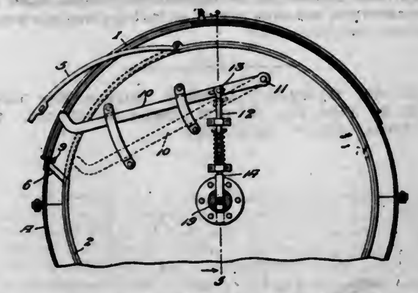


1. A work holder for cultivator disks while being ground, consisting of an upper block having a pin capable of acting as a pivot for the disk, a base, a lower block pivoted to the base, a middle block pivoted to the lower block and upon which the upper block is mounted to slide, and a guide bracket and straps for holding the blocks in place.

1,457,160. ROTARY WASHING MACHINE. FRANK GUAY, Whitefish, Mont. Filed Mar. 8, 1922. Serial No. 542,079. 5 Claims. (Cl. 68—18.)

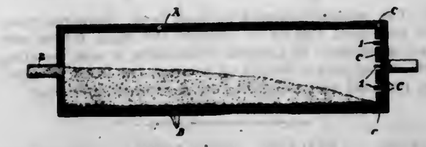
1. A washing-machine including an outer and an inner cylinder spaced apart, a door for the inner cylinder,

and a spring-actuated slidably mounted guard which automatically projects itself to cover the space between



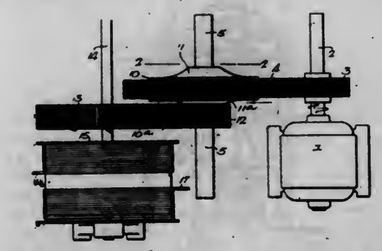
the two cylinders at the edge of the door-way when the door is open.

1,457,161. METHOD FOR MAKING PLASTIC GYPSUM. ROBERT E. HAIRE, Paris, Ontario, Canada. Filed May 27, 1922. Serial No. 564,248. 1 Claim. (Cl. 222—4.)



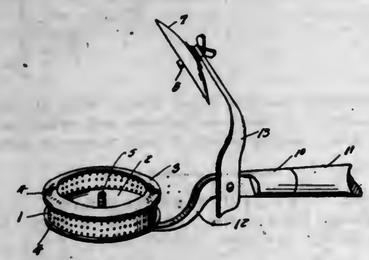
The herein described method of making plastic gypsum, consisting in passing calcined gypsum through a tube mill with substantial exclusion of air in circulation through said mill to thereby prevent loss of the water content during the grinding, the material being allowed to discharge at the periphery of the mill when the desired degree of plasticity is reached.

1,457,162. DOUBLE-ACTING LOAD BRAKE. WILLIAM E. HALE, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1921. Serial No. 463,012. 2 Claims. (Cl. 192—16.)



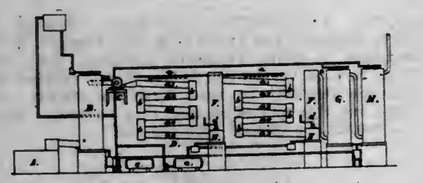
1. The combination in hoisting mechanism, of a power shaft; an intermediate shaft; a driven shaft; a drum thereon arranged to have two ropes wound thereon, one leading from the opposite side thereof; an intermediate shaft having a screw thread; a wheel on the said shaft driven from the power shaft and having an internal thread in its hub meshing with the thread on the intermediate shaft; two friction disks keyed to the said shaft, one on each side of the wheel; ratchet disks on each side of the wheel located between the wheel and the friction disks; pawls engaging the ratchet disks so that one disk will turn in one direction only and the other disk will turn in the opposite direction only so that when the wheel is turned in one direction it will move into frictional contact with the disks on one side of the wheel, turning the shaft in one direction and, when the rotation of the wheel is reversed, it will be moved into frictional contact with the other disks, causing the shaft to move in the opposite direction; and means connecting the shaft with the drum shaft so that the drum shaft will be reversed with the intermediate shaft, the pawls preventing the load running away with the mechanism.

1,457,163. TENNIS-COURT MARKER. JULIAN B. HALLER, Wytheville, Va. Filed May 25, 1922. Serial No. 563,623. 3 Claims. (Cl. 221—119.)



1. A tennis court marker comprising a marking drum having a perforated band periphery and an open side, a removable cover for closing the open side of the drum, means for securing the cover in closed position, and a handle including a fork, one of the members of which is pivoted and the drum and cover being journaled to the respective fork members.

1,457,164. METHOD AND APPARATUS FOR MANUFACTURING SULPHURIC ACID. THOMAS R. HARNEY, Short Hills, N. J., assignor to New Process Acid Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 1, 1921. Serial No. 512,000. 9 Claims. (Cl. 23—1.)

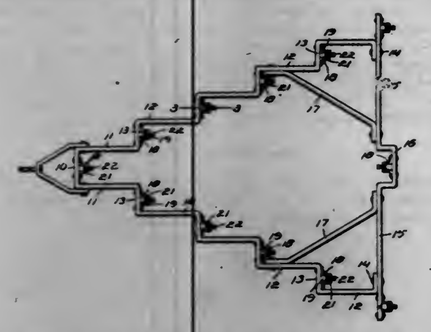


1. The method of producing sulphuric acid from a gas containing sulphur dioxide, which consists in introducing into said gas nitrogen oxides, then passing said gases through a relatively long circuitous passage to convert the sulphur compound to a higher state of oxidation, then adding water from an external source, then subjecting the gaseous mixture thus formed to the scrubbing action of large surfaces to form sulphuric acid, then removing the sulphuric acid thus formed, then passing the remaining gases through a relatively long circuitous passage, and forming and removing sulphuric acid therefrom as above described.

1,457,165. CULTIVATOR. EDWARD C. HARVEY, Franklinton, La. Filed Oct. 5, 1922. Serial No. 592,502. 2 Claims. (Cl. 55—3.)

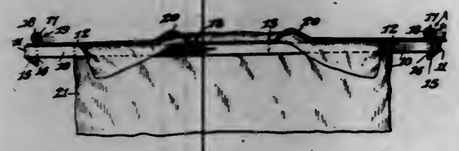
1. A cultivator frame formed from a single bar bent intermediate the ends to form a transverse portion and

rearwardly directed portions in spaced parallel relation, and thence directed rearwardly and reversely diverging,



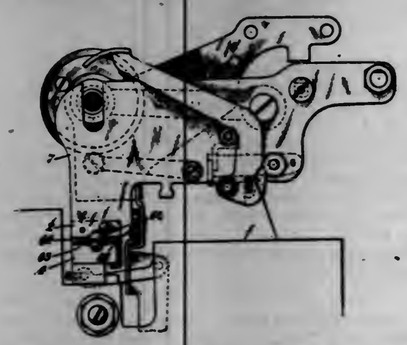
the diverging portions being formed with alternating longitudinal and transverse portions, and means for coupling earth engaging devices to said transverse portions.

1,457,166. TOWEL AND GARMENT HOLDER. JOSEPH J. HAYES, Elkhart, Ind. Filed Mar. 1, 1922. Serial No. 540,219. 3 Claims. (Cl. 45—32.)



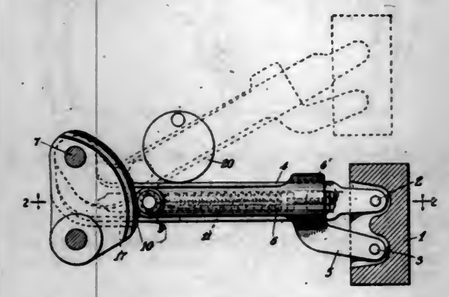
2. In a device of the class described a supporting bar having outwardly opening recesses at the ends, a rod bearing upon said bar and with downturned portions engaging in said recesses, the parts of the rod in advance of the downturned portions being directed laterally and coupling the rod to the bar thereby and adapted to be attached to a support.

1,457,167. TYPEWRITING MACHINE. EDWARD B. HESS, Brooklyn, and LEWIS C. MYERS, Freeport, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed June 19, 1922. Serial No. 569,322. 2 Claims. (Cl. 197—69.)



1. In a typewriting machine: an upper and a lower ball raceway having longitudinal grooves, the groove of the lower raceway having a central gutter and a longitudinally extending raised portion on each side of the gutter, rack teeth disposed on the opposite longitudinal edges of the raceways, and balls having encircling gears interposed between said raceways.

1,457,168. HAMMER. ALFRED E. HORMAN, New York, N. Y. Filed Feb. 16, 1922. Serial No. 537,129. 12 Claims. (Cl. 78—31.)

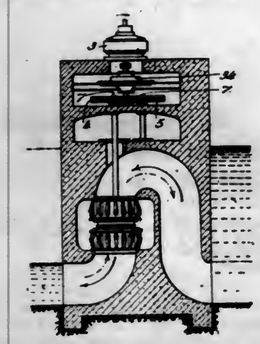


1. The combination of a hammer head, elongated members connected thereto to support the same for up and down movement, and means comprising a cam coacting with one of said members to position the same to maintain the head vertical during its downward movement.

1,457,169. ANTIRUST COMPOSITION. CHARLES C. HOWE, Wyoming, R. I., and STEPHEN W. LIBBY, Watertown, Mass., assignors to Warren Soap Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 2, 1922. Serial No. 533,647. 2 Claims. (Cl. 134—1.)

2. A new composition of matter, consisting of petrolatum, mineral oil, wool fat and mica in substantially the relative proportions above described.

1,457,170. TIDAL WATER-POWER PLANT. ALBERT HUGUENIN, Zurich, Switzerland. Filed Oct. 5, 1921. Serial No. 505,511. 3 Claims. (Cl. 290—4.)



1. In a tidal water power plant, in combination, at least one aggregate composed of an asynchronous generator and a turbine, means interposed between said turbine and said generator for altering the transmission ratio between turbine and generator, two controllable guide apparatus for said turbine, means to render one of same operative when the turbine works in the one of the two rotary directions and to render the other inoperative by removing it from the supply passages to the turbine.

1,457,171. CONDUIT END FITTING. FREDERICK I. JOHNSON, Warren, R. I., assignor to Mary W. Johnson, Warren, R. I. Filed Aug. 27, 1920. Serial No. 406,337. 4 Claims. (Cl. 247—6.)



1. A conduit and fitting comprising an insulating head member, a nut-engaging neck member having an integral outturned flange and a band member having its edges turned inwardly to connect said flange portion to said head whereby one may rotate relative to the other, a nut in said member, and means in said neck member for firmly embracing said nut.

1,457,172. LINTER-GIN-RIB MOUNTING. TOLLIVER M. JONES, Birmingham, Ala. Filed Mar. 25, 1922. Serial No. 546,672. 12 Claims. (Cl. 19—62.)



4. A rib rail for gin saw breasts having spaced rib centering shoulders thereon which taper in transverse cross-section.

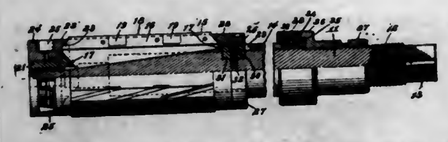
1,457,173. ELECTRICAL DIRECTION INDICATOR. HOSAKU KAGEYAMA, Los Angeles, Calif. Filed May 1, 1918. Serial No. 231,851. 14 Claims. (Cl. 177—337.)



1. A signal comprising two concentrically revolvable indicating members, means for operating said indicating members into various predetermined angular positions to indicate different signals, an auxiliary electric signal for indicating to the operator whether said indicating members are operated or not and switch means comprising two switch operating members for controlling the circuit of said auxiliary electric signal, said switch operating members being carried by the respective indicating members and adapted to come into engagement with one another for closing the circuit of said auxiliary signal when said indicating members are operated into any of their predetermined indicating positions.

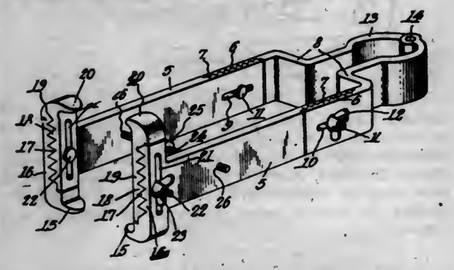
1,457,174. REAMER. CHARLES A. KELL, Elkhart, Ind. Filed June 29, 1921. Serial No. 481,302. 4 Claims. (Cl. 77—76.)

1. In a reamer, the combination of a shank having a tapered portion, an annular head enclosing and movable longitudinally upon said shank, said head being provided with longitudinal slots opening through its inner and outer faces, recessed blade holders mounted in said slots and having inwardly projecting extensions with inclined surfaces resting upon the tapered surface



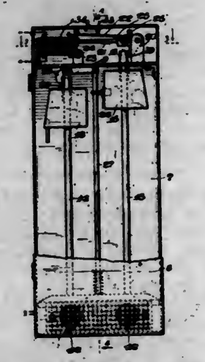
of the shank, blades held in the recessed portions of the holders, means for moving the head longitudinally of the shank and fixing it in adjusted position, and means carried by the head for engaging the opposite ends of the blade holders and fixing the same in adjusted position.

1,457,175. VALVE REPLACER. ELMER P. KRAY, Los Angeles, Calif. Filed Nov. 5, 1921. Serial No. 513,128. 5 Claims. (Cl. 29—86.3.)



1. A valve spring replacing tool comprising, a pair of spaced arms pivotally connected at corresponding ends whereby said arms may be adjusted toward and away from each other, means adjustably connecting said arms at points remote from their pivotal connection and adapted to shift the arms toward and away from each other, and pairs of inwardly projecting jaws carried by the ends of said arms, the jaws in each pair being spaced.

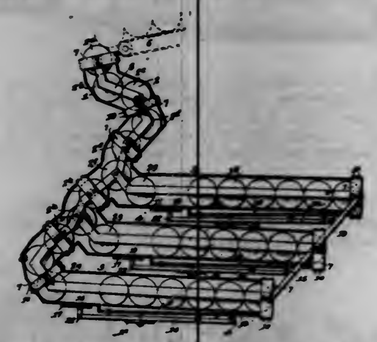
1,457,176. BURGLAR ALARM. JOHN E. LEE, Milwaukee, Wis. Filed Oct. 9, 1920. Serial No. 415,788. 6 Claims. (Cl. 177—314.)



6. An alarm device comprising a pair of vertically movable gravity-actuated firing hammers, guide means for said hammers, cartridge holding means under said hammers, movable suspension hooks engageable with said hammers, a spring-pressed rod connected to the

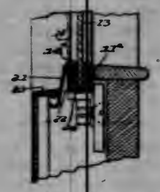
hook for the second hammer and provided with a stop engageable with a part on the first firing hammer to release the second hammer on the descent of the first hammer, and means for releasing the first hammer from its hook.

1,457,177. CAN-FEEDING MECHANISM. JOHN A. LEE, Coopersville, Mich. Filed Oct. 25, 1922. Serial No. 596,854. 8 Claims. (Cl. 193—32.)



1. The method of feeding cylindrical metal cans through a guide chute, consisting in permitting the cans to roll about their longitudinal axes in a direct line of travel through the chute on opposite sides of the center line of the chute, in order, to direct the cans in units of short lengths, and providing diverting chute lengths for guiding the cans in longer groups to the discharge ends thereof.

1,457,178. VEHICLE SASH CONSTRUCTION. JOHN MCARTHUR, Detroit, Mich. Filed Feb. 14, 1922. Serial No. 536,481. 2 Claims. (Cl. 296—48.)

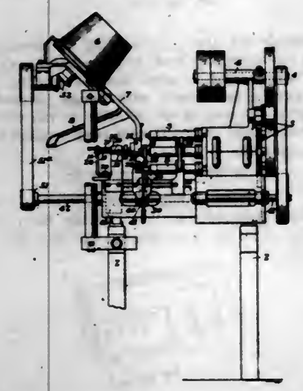


1. A sash for vehicle tops having a sliding frame provided with an inwardly directed groove or channel fitted with a yielding cushion for seating the edges of a sash light, and a weather strip having a downwardly and outwardly inclined wing extending into the sash receiving slot to bear against the outer wall thereof and provided with an inner cross-sectionally L-shaped retaining flange seated in the groove or channel between the walls thereof and the light seating cushion.

1,457,179. MACHINE FOR THE MANUFACTURE OF COLLAPSIBLE METAL TUBES. JOHN A. MCGINNIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed June 28, 1921. Serial No. 481,042. 22 Claims. (Cl. 29—38.)

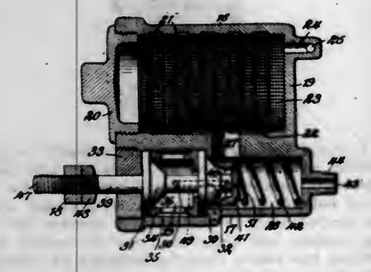
1. The combination with a machine for threading the necks of collapsible metal tubes and for trimming the tubes, of cap feeding and attaching devices operating in co-relation with the threading and trimming devices, to apply caps to the threaded necks of the tubes while the tubes are still on the machine, substantially as described.

13. In mechanism of the character described, the combination with a feed chute having means for delivering caps in definite predetermind positions, of a chuck carrier mounted to reciprocate below the discharge end of said chute, a cap holding chuck on said carrier adjacent the lower end of said chute, a plunger for moving the caps from the lower portion of the chute into the chuck, means for periodically repicrocating the plunger, and means for periodically reciprocating the carrier, said reciprocating means operating to move the plunger forwardly in advance of the forward movement of the chuck carrier, substantially as described.



15. In mechanism of the character described, the combination with a machine having a tube holding mandrel adapted to prevent collapse of the tube, of a cap holding chuck adapted to cooperate with the mandrel, means for periodically feeding a cap into said chuck, and means for periodically moving the chuck toward and away from the mandrel, substantially as described.

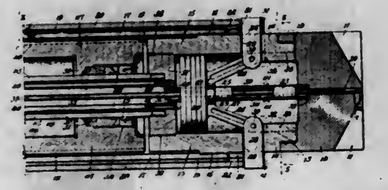
1,457,180. VALVE DEVICE FOR HOSE REELS. JOSEPH B. MCMULLIN, Oskaloosa, Iowa, assignor to Western Manufacturing Company, Oskaloosa, Iowa. Original application filed Aug. 13, 1919, Serial No. 317,294. Divided and this application filed Aug. 17, 1920. Serial No. 404,071. 6 Claims. (Cl. 251—156.)



5. A valve device for controlling the flow of fluid under pressure, including a chamber with packing heads therein and a spacer separating the heads, thereby forming a compartment between the heads and one of the heads constituting a valve seat, a valve member in operative relation to the valve seat and having a normal tendency to engage said valve seat, and a push rod extending through the packing heads and engaging the valve member for moving it in opposition to its normal tendency and provided with passages for placing the interior of the valve member and the compartment between the packing heads in communication, said valve

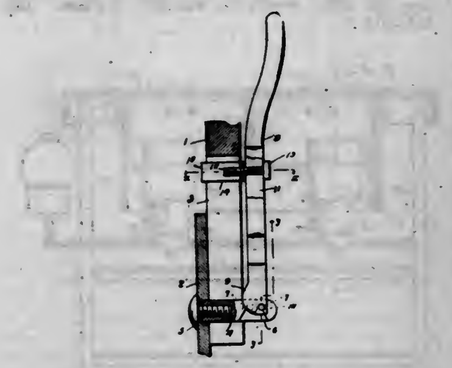
device including another chamber communicating with the first named chamber and adapted to communicate with a supply of fluid under pressure, and a screen within the last named chamber for filtering out undesirable material from the fluid under pressure.

1,457,181. PNEUMATIC DRILL. WILLIAM MABLE, Fort Collins, Colo., assignor of one-half to Della Goodale, Fort Collins, Colo. Filed June 5, 1920. Serial No. 386,717. 24 Claims. (Cl. 255—4.)



1. A pneumatic drill for earth boring comprising a cutter, a cylinder supporting the cutter, a drill casing connected to the cylinder, reciprocating dogs supported by the cylinder for reaming out the hole in advance of the well casing, and positively reciprocated means in the cylinder for actuating the reaming dogs.

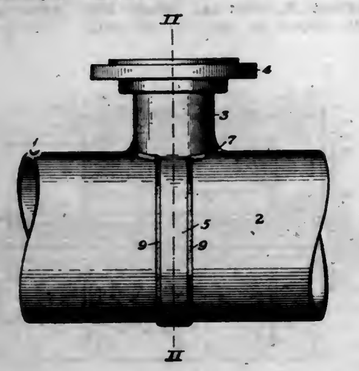
1,457,182. CLAMP BOLT. JOHN W. MALLORY and WILLIAM M. JOHNSTON, Grand Saline, Tex. Filed June 17, 1921. Serial No. 478,455. 5 Claims. (Cl. 287—58.)



2. Fastening means of the character specified comprising a bolt, an operating lever therefor, a yoke having outer extensions, and a screw loosely engaging the lever and threaded into the yoke and serving to hold the lever in the required adjusted position.

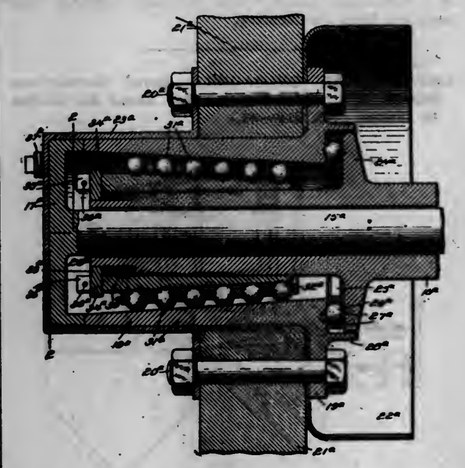
1,457,183. NECK OR NOZZLE CONNECTION FOR PIPE LINES. HARBOUR MITCHELL, Pittsburgh, Pa., assignor to American Foundry & Construction Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1921. Serial No. 440,209. 16 Claims. (Cl. 137—73.)

3. The method of attaching a nozzle or neck member to a metal pipe, which consists in forming a circular opening in the pipe, providing a nozzle having an internal diameter substantially equal to the diameter of said opening and having integral strap members, seating the nozzle on the pipe around said opening, bending the integral strap members around the pipe, and welding both the nozzle and the strap members to the pipe, substantially as described.



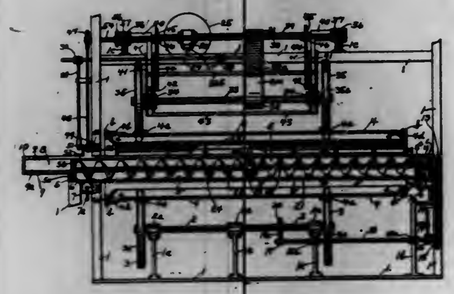
6. A nozzle connection for pipe lines, comprising a nozzle member seated around the opening in the pipe and welded thereto, said member also having integral strap portions which extend entirely around the pipe and are secured thereto, substantially as described.

1,457,184. ADJUSTABLE BALL BEARING. SWENEY MUNSON, Fowler, Colo. Filed May 11, 1921. Serial No. 468,638. 5 Claims. (Cl. 64—36.)



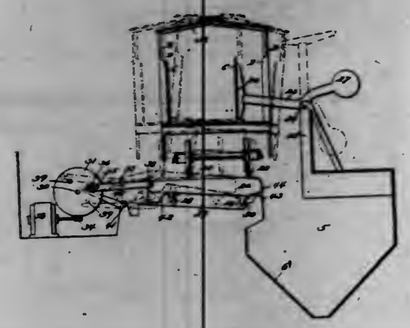
1. In an anti-friction bearing, a rotating hub, a driven axle extending concentrically through the bore of said hub, and having means detachably engaging in the hub for rotating the latter, a housing surrounding said axle and extending within the bore of said hub, an annular flange formed with said housing and spaced from the inner end of said hub, a ball cage in the form of a flat annulus interposed between the opposed faces of the inner end of said hub and said flange and having a circular set of ball bearings contacting the faces thereof, a sleeve adjustably movable on said housing within said hub, the opposed faces of the bore of said hub and said sleeve being correspondingly tapered, a tapered ball cage interposed between the wall of the hub bore and said sleeve and having circular sets of ball bearings contacting the opposed faces thereof, and movable with the latter during its movements of adjustment, and means for locking said sleeve in any of its positions of adjustment.

1,457,185. MACHINE AND PROCESS FOR MANUFACTURING ARTICLES FROM PLASTIC MATERIALS. CLIFFORD R. NICHOLS, Dallas, Tex. Filed Apr. 5, 1923. Serial No. 630,113. 24 Claims. (Cl. 25—30.)



15. In a centrifugal plastic ware making machine, a rotary mold, a trough having a discharge extending throughout substantially its length to discharge material into the mold throughout substantially the length of the mold, means to move the trough into and out of the mold, means in the trough to feed the material through the discharge and means controlling the discharge to open and close the latter whereby to allow the material to be discharged and to enable the mold to collect water resultant from the molding.

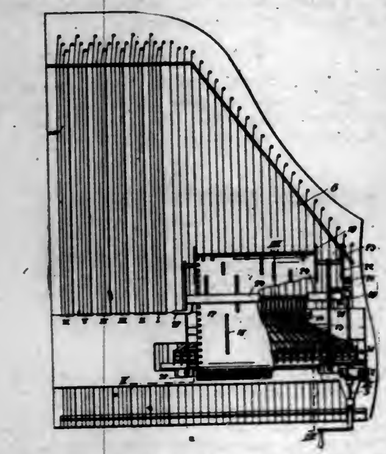
1,457,186. CAR UNLOADER. HENRY RICHARDSON, Passaic, N. J. Filed Dec. 2, 1920. Serial No. 427,793. 14 Claims. (Cl. 214—44.)



1. In a car unloader, in combination, a car-door opener, and means for supporting a car to move bodily in a direction laterally of its length toward the door opener while the latter is in engagement with the door.

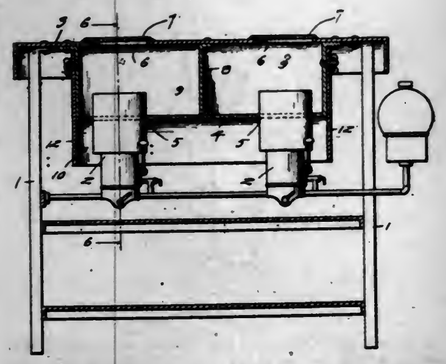
1,457,187. MECHANISM FOR PLAYING ZITHERS. PAUL RIESSNER, Luckenwalde, Germany. Filed July 19, 1920. Serial No. 397,538. 5 Claims. (Cl. 84—8.)

1. Mechanism for playing zithers, comprising in combination plucking devices for plucking the melody strings, a resiliently suspended bar adapted to be oscillated longitudinally, means for effecting the longitudinal oscillating movement of said bar and of the plucking devices, mounted within notches of the bar, means including a note sheet for selecting the melody strings to be plucked, signs on said note sheet, indicating the accompaniment chords or groups of strings to be manually plucked at



the some time by the player and means for returning the note sheet into the initial position after the piece of music has been played.

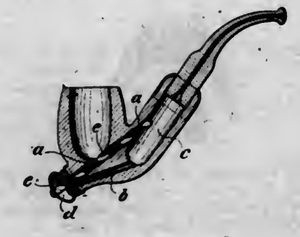
1,457,188. MULTIPLE HOLE TOP FOR BURNER STOVES. ERASTUS W. ROGERS, Durham, N. C. Filed Apr. 30, 1921. Serial No. 465,817. 1 Claim. (Cl. 126—214.)



In combination with a stove having a top, an upstanding burner at a distance below the top, a casing depending from said top having a bottom wall and an outwardly extending marginal flange at the upper edge secured to the under surface of the top, said casing having an opening in its bottom wall through which said burner extends, the burner terminating short of the top, said top having a plurality of outlet openings, and a windshield surrounding said casing and depending below the same and about the burner.

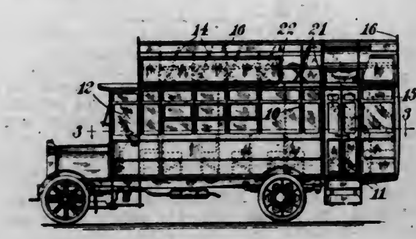
1,457,189. TOBACCO PIPE. MAX SCHIERS, Grossenbaum, near Dusseldorf, Germany. Filed July 8, 1920. Serial No. 394,857. 2 Claims. (Cl. 131—12.)

2. In a tobacco pipe a straight smoke channel connecting the bowl hole with a saliva chamber and a smoke chamber in the shaft discharging high above the bottom of this chamber, the saliva chamber consisting of a removable basin, a straight saliva channel connecting the saliva chamber with the bottom of the smoke



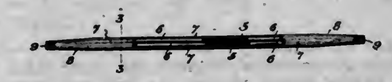
chamber, the axis of both channels crossing in the saliva basin, and a spiral grooved pin in the smoke channel fastened to the saliva basin.

1,457,190. PASSENGER VEHICLE. GEORGE JAMES SHAVE, Westminster, London, England, assignor to The London General Omnibus Company Limited, Westminster, London, England, a British Limited Liability Company. Filed Mar. 22, 1921. Serial No. 454,465. 5 Claims. (Cl. 296—28.)



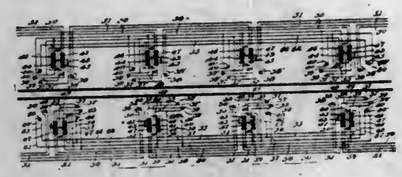
1. A passenger vehicle comprising in combination a body, permanent seats for passengers on said body, a staircase communicating between the floor and the roof of the body, readily removable means for securing the staircase in position, supplementary seats for mounting on the floor of the body in substitution for the staircase when the latter is removed, and readily removable means for securing said supplementary seats in position, said means including metal sockets sunk in the floor of the body, metal plates carried by a supplementary seat, and screws for securing said plates to said sockets.

1,457,191. HAIR CURLER. PAUL SINCLAIR, Williamsport, Pa., assignor to Sinclair Hair Curler Company, Williamsport, Pa. Filed May 6, 1922. Serial No. 559,019. 1 Claim. (Cl. 132—43.)



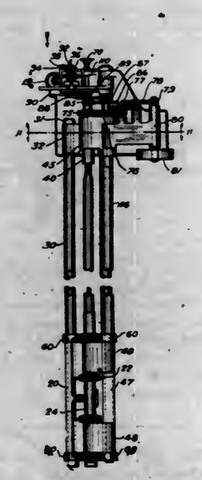
A device or article of the character described, comprising a plurality of flexible cores arranged in parallelism with each other, means enveloping the cores, a woven fabric housing concealing said means and tips closing the ends of said housing, the means covering the cores being compressed within the housing at the end portions thereof for outward tapered formation thereto.

1,457,192. ELECTRIC SAFETY SYSTEM FOR RAILROADS. JOHAN SKINDERVIKEN, Chicago, Ill., assignor of one-half to Olaf E. Ray, Chicago, Ill. Filed Sept. 24, 1917. Serial No. 192,908. 12 Claims. (Cl. 246—60.)



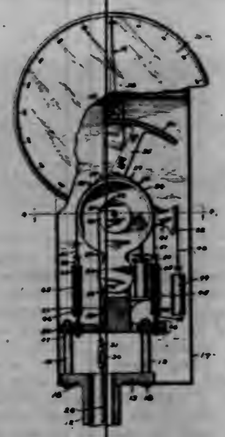
3. In an electric safety system for railroads, the combination of a worm wheel on each train; a motor having a shaft provided with a worm thread adapted for meshing with said wheel; a valve interposed in the air brake system of the train operable upon the rotation of said wheel; a normally open electric circuit on each train, adapted, when closed, to effect rotation of said wheel; a plurality of make-and-break devices spaced along the track, each of which is adapted, when actuated, to close the mentioned circuit of a train passing the same; means on each train for effecting opening and closing of said make-and-break devices; a station located along the track; and means in said station for co-operation with certain of said make-and-break devices along the track for opening and closing the same at the will of an operator located in the station, substantially as described.

1,457,193. DEVICE FOR PERFORATING OIL-WELL CASINGS. EDWARD M. SMITH and RICHARD E. HEIDRICH, Los Angeles, Calif.; said Heidrich assignor to said Smith. Filed Feb. 21, 1922. Serial No. 538,220. 6 Claims. (Cl. 81—194.)



1. In a device for cutting slots in pipe, the combination of: a head, small enough to go entirely inside the pipe which it is desired to slot; locking means carried by said head for locking said head inside said pipe; means by which said locking means may be actuated from a point outside said pipe with said head in place inside said pipe; a rotary cutter carried by said head; and means for positively driving said cutter from a point outside said pipe with said head in place inside the pipe.

1,457,194. SPRING SCALE. WALTER S. SMITH, Columbus, Ohio. Filed Dec. 30, 1920. Serial No. 433,968. 10 Claims. (Cl. 265—69.)



1. In a scale, a beam structure and a weighing platform associated therewith, an oscillatably mounted actuator, a connection between said actuator and said beam structure, balanced spring mechanism cooperative with axially opposite portions of said actuator for normally maintaining the latter in neutral position, said mechanism being flexibly connected with the actuator and weight indicating mechanism arranged to register in accord with the movement of said actuator.

1,457,195. JACK BOLSTER. HERBERT V. SOUDERS, Wilmington, Calif., assignor of one-half to Jesse M. Frost, Long Beach, Calif. Filed Mar. 9, 1922. Serial No. 542,292. 8 Claims. (Cl. 254—100.)



1. In combination, a vehicle including a spring, a jack adapted for arrangement beneath the spring and in the rear or advance of the adjacent wheel, and a bolster interposed between the head of said jack and spring and formed with a jack head receiving portion adjacent to the outer end thereof whereby the operating lever of the jack is so disposed as to permit actuating thereof without reaching beneath the vehicle.

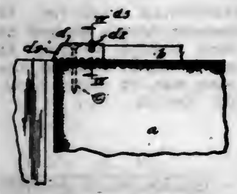
1,457,196. JEWEL SETTING. SOLOMON STEIN, Washington, D. C. Filed Apr. 14, 1922. Serial No. 552,441. 1 Claim. (Cl. 63—29.)

A jewel mounting comprising a top composed of a relatively thin plate, having an opening in its centre proportioned and adapted to serve as a centering guide for a reamer to be applied from the under side to ream out the opening with a taper the larger end of which is below, the smaller end being sufficiently smaller than the jewel to engage the periphery of the jewel and position it within the taper, said mounting being provided also with an internally threaded bore larger than the larger end of the tapered portion and concentric therewith, and an externally threaded member fitted to the threaded bore and provided at its upper end with a central cavity, the end margin of which is proportioned



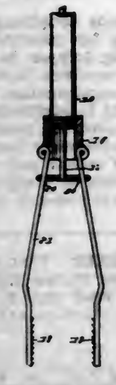
and adapted to engage the under side of the jewel when the member is screwed home and maintain it rigidly within said taper with a portion extending through the smaller end and exposed above the top.

1,457,197. APPARATUS FOR FINISHING UPHOLSTERING. HORACE T. THOMAS, Lansing, Mich. Filed Feb. 12, 1921. Serial No. 444,366. 3 Claims. (Cl. 155—184.)



1. The combination of a finishing strip, a ferrule embracing the end of said strip, said ferrule being provided with a transverse ridge having a concavity within said ferrule for the purpose described.

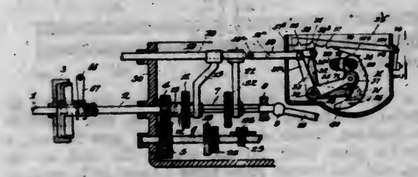
1,457,198. GRAPPLING DEVICE. ARTHUR B. UTLEY, Springfield, Mo. Filed Mar. 17, 1921. Serial No. 453,113. 1 Claim. (Cl. 294—115.)



A tool for the purpose indicated comprising a tubular shank, a grip carried at the upper end of the shank, a stem passing slidably through the grip and centrally through the shank and provided with a collar at an intermediate point, a spring in surrounding relation to the stem and enclosed within the shank and bearing respectively against the grip and the collar, a knob carried at the upper extremity of the stem, a sleeve engaged with the lower end of the shank, jaws pivoted to the sleeve at diametrically opposite points and formed at their extremities with facing roughened surfaces for engagement with

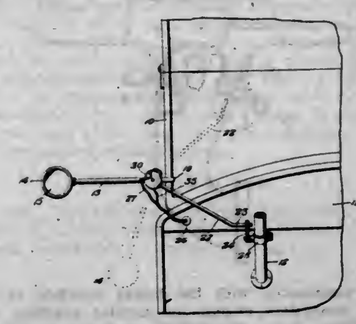
interposed objects, the said jaws being formed with divergent portions extending from the pivotal points to points adjacent said roughened faces, and a follower carried at the lower extremity of the stem and provided with guide openings slidably engaging the divergent portions of the jaws.

1,457,199. TRANSMISSION-GEAR-SHIFTING MECHANISM. ALBERT G. WAGNER, Norwood, Ohio, assignor of two-eighths to Henry A. Meyer, two-eighths to Felix Elsbach, and two-eighths to Jacob Bloch, all of Cincinnati, Ohio. Filed June 30, 1921. Serial No. 481,624. 12 Claims. (Cl. 74—58.)



1. In a gear shifting mechanism, the combination with a gear shifter bar, of a lever connected to said bar, a series of cams swinging as a unit, formed to respectively, raise, lower and centralize said lever relative to its upper and lower limits of movement, and means for selectively engaging said cams with said lever.

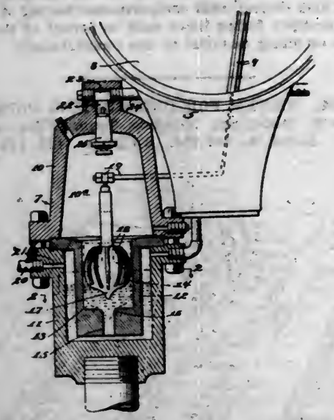
1,457,200. AUTOMOBILE SIGNAL. WILLIAM F. WEDEMEYER, Sheboygan, Wis. Filed Jan. 8, 1921. Serial No. 435,860. 3 Claims. (Cl. 116—54.)



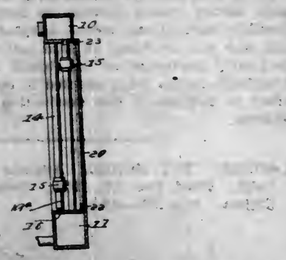
1. An automobile signal comprising a stationary support adapted to be fixed to one side of an automobile, a rotatable element connected to said support, a signal arm carried by said rotatable element, a rearwardly inclined hand lever projecting inwardly from said rotatable support and formed with an angle shaped inner end, and an angle shaped latch device adapted to be carried by the steering column of an automobile and engageable with said angle shaped inner end of said lever for retaining said signal arm in its operative position.

1,457,201. DIFFERENTIAL-PRESSURE GAUGE. HENRY P. WESTCOTT, Erie, Pa. Filed Oct. 20, 1919. Serial No. 332,063. 3 Claims. (Cl. 73—31.)

1. In a gauge of the class specified, the combination with a chambered casing having a dome thereover, a mercury pot mounted in the chambered casing and provided with a bottom opening and a fully open top portion, a metal float mounted in said pot and having a lower depending tapering check valve fixed thereto to extend into the said opening in the bottom of the pot, the check valve having a stem rising from the upper portion thereof, gauge means to which the stem is operatively connected, and valve means located above the float and stem and with which the upper part of the float stem is adapted to contact to open said valve means.

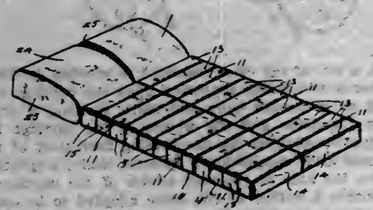


1,457,202. AUTOMOBILE RADIATOR. DAVID H. WEYANDT, Sidman, Pa. Filed May 4, 1921. Serial No. 466,813. 1 Claim. (Cl. 257—129.)



A radiator for automobiles having upper and lower tanks, and upright tubular circulating elements connecting said tanks, the tanks being formed with seats for the extremities of the tubular elements and the latter being of sectional construction with the elements connected by couplings the rotation of which extends the effective lengths of the elements to bring the extremities into firm engagement with said seats.

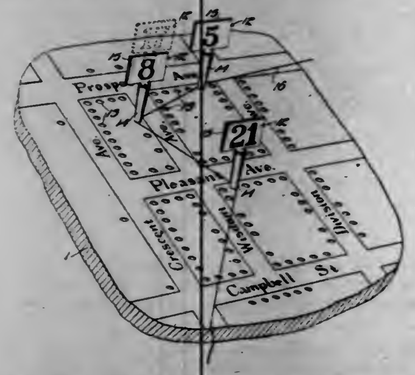
1,457,203. MATTRESS. SARAH J. WICK, Lonerock, Oreg. Filed Feb. 24, 1922. Serial No. 538,839. 1 Claim. (Cl. 5—13.)



A mattress having a base or bottom sheet consisting of a single sheet of material, parallel series of compart-

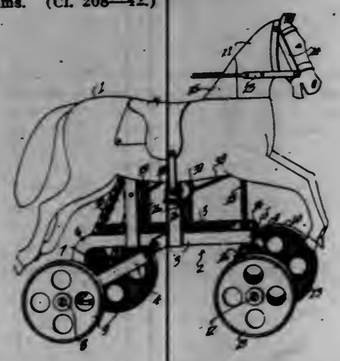
ments supported by said sheet, each of said compartments having their longitudinal edges arranged transversely of the bottom or base sheet and extending from the longitudinal edges thereof inward to the longitudinal central axis thereof, said compartments having originally open oppositely facing inner ends to permit of the introduction of filling material to the compartments.

1,457,204. SYSTEM FOR DISTRIBUTING PACKAGES. JOHN R. ALEXANDER, Memphis, Tenn. Filed Aug. 31, 1920. Serial No. 407,154. 6 Claims. (Cl. 116—136.)



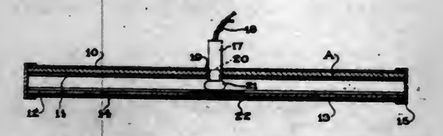
1. In a system of distribution, the combination of a map having means thereon so located as to indicate possible destinations, means adapted for attachment to the map and markings on said latter means adapted to be readily duplicated on the objects to be delivered, said attachable means being adapted to be superposed on each other to indicate a like destination for a plurality of objects.

1,457,205. TOY HORSE. ANDREW S. BAKER, Gilroy, Calif. Filed Dec. 17, 1921. Serial No. 523,115. 5 Claims. (Cl. 208—42.)



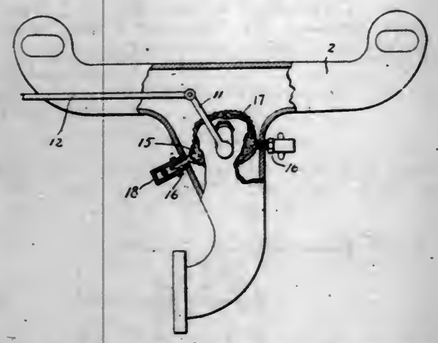
1. In a toy of the class described, a wheeled carriage, a toy horse or the like supported upon the carriage and adapted to be rocked back and forth thereon, a drive between the horse and the wheels of the carriage for propelling the carriage by the rocking movement of the horse, said drive comprising a sprocket chain, a sprocket wheel on the axle of the rear wheels of the carriage, a shaft within a hollow of the horse adapted to be oscillated by the horse, a sprocket on said shaft, said sprocket chain connecting said sprocket wheels, a dogging device for the sprocket wheel on said shaft adapted to lock the same in driving relation with the horse in one direction of its rotation but adapted to leave the sprocket wheel free to rotate in the shaft in an opposite direction, and spring actuated take-ups operating oppositely to one another and associated with the said drive, substantially as described.

1,457,206. LICENSE-PLATE HOLDER, TAIL LIGHT, AND PARKING LIGHT. JACK BENJAMIN, New Kensington, Pa. Filed June 30, 1922. Serial No. 571,878. 2 Claims. (Cl. 40—132.)



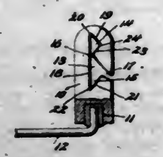
1. A device of the character described comprising an elongated rectangular casing adapted to hold a license plate disposed therein against the back wall thereof, a removable glass front for the casing, the back of the casing, and the license plate being formed with registering holes, a socket passing through said holes, an incandescent lamp within the casing engaged within said socket and a transparent red area on the glass plate opposite the incandescent lamp.

1,457,207. AUXILIARY AIR SUPPLY. ALBERT BOONE, Sawtelle, Calif. Filed July 21, 1922. Serial No. 576,501. 5 Claims. (Cl. 48—180.)



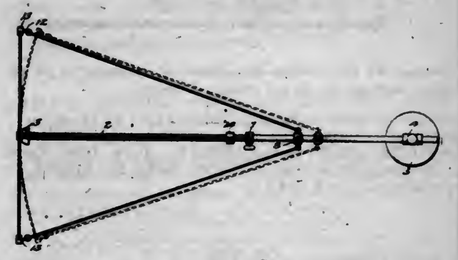
1. In combination with the intake manifold of an internal combustion engine, an exterior auxiliary air supply device, and a disc-shaped reticulated basket arranged in the manifold and against which the air entering through the supply device impinges, and a fibrous filling in the basket.

1,457,208. THREAD GUIDE FOR TEXTILE MACHINES. FREEMAN CASS, Brooklyn, N. Y. Filed Feb. 28, 1922. Serial No. 539,944. 2 Claims. (Cl. 242—157.)



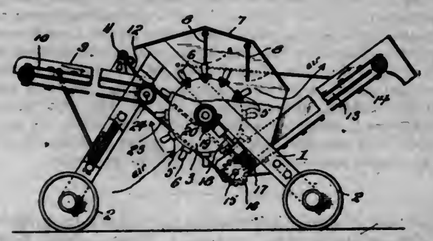
1. A thread guide for textile machines comprising a body having an eye provided with a substantially straight rear wall, said eye consisting of an upper portion and a lower portion with a narrow passageway connecting the same, the upper wall of said upper portion and the lower wall of said lower portion of the eye being arranged at an acute angle to said rear wall, whereby a sharp corner is formed at the top and bottom of said eye, and an inlet slot communicating with said lower portion of the eye opposite said rear wall.

1,457,209. METHOD AND APPARATUS FOR PRODUCING DISTORTED IMAGES. GASTON L. CHANIER, Short Hills, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 18, 1922. Serial No. 554,683. 6 Claims. (Cl. 88—1.)



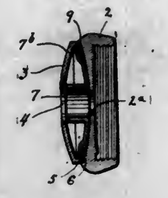
1. A device for producing distorted images, which includes a flexible sheet of reflecting material, a shaft or bar one end of which bears against the rear face of the sheet and extends therefrom, slidable members disposed on said bar, and connections extending between each of said slidable members and the sheet whereby the movement of the members will cause the flexing of the sheet, the connections from one member adapted to extend to different edges of the sheet than the connections extending from another slidable member.

1,457,210. APPARATUS FOR TREATING SOIL. WILLIAM E. CRANE, Oakland, Md. Filed May 11, 1920. Serial No. 380,689. 3 Claims. (Cl. 83—11.)



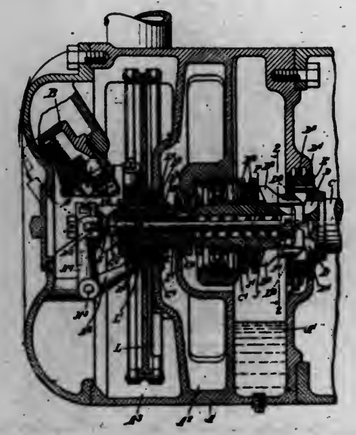
1. An apparatus for treating soil comprising in combination with a frame having a rotary beater cylinder of slatted construction thereon, an open ended hood mounted over said cylinder, buffer plates depending from said hood, and means to feed material to be treated to the upper part of said cylinder along the line of the air current created beneath the hood by the rotation of said slatted cylinder.

1,457,211. RECEIVER FOR TELEPHONES. VIRGIL C. CRITES, Los Angeles, Calif., assignor to Frank C. Mason, Los Angeles, Calif. Filed June 29, 1922. Serial No. 571,675. 4 Claims. (Cl. 179—182.)



1. In an instrument applicable to the human ear to facilitate hearing, and having a hard shell, a cushion means attached to the face of the shell and which is adapted to rest against the ear, said means including a collapsible shield having an aperture, and a tube leading from the sound aperture of the shell through the shield so as to advance therethrough to project into the ear when the shield collapses.

1,457,212. GOVERNOR FOR STEAM TURBINES. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 9, 1920. Serial No. 402,251. 14 Claims. (Cl. 253—59.)

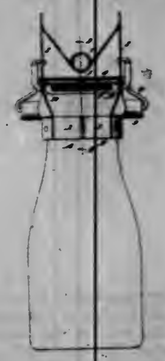


1. In a governor for a steam turbine comprising in part a valve and a valve stem, the combination of a hollow shaft portion with a governor rod centrally mounted and movable therein, a governor weight at one end of the rod, means for connecting the valve stem with the rod at the other end of the rod, an oil chamber to which the governor weight is exposed, a steam chamber in which the said valve connections are located, and an air chamber disposed between the said steam chamber and the oil chamber.

1,457,213. CARRIER. EDWARD JAMES DALTON, Davenport, Iowa. Filed Feb. 13, 1922. Serial No. 536,203. 3 Claims. (Cl. 215—100.)

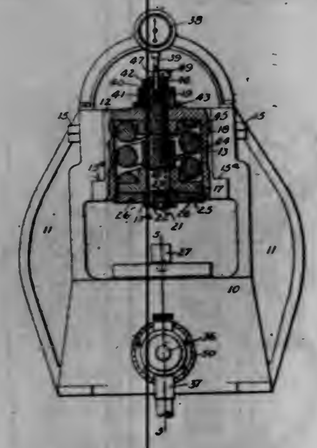
1. A carrier of the class described comprising a pair of

jaw members, each including a jaw part and a stem, a ball connected with the stems, means for hinging the



stems together and means for locking the stems to the ball for holding the jaw parts in gripping position.

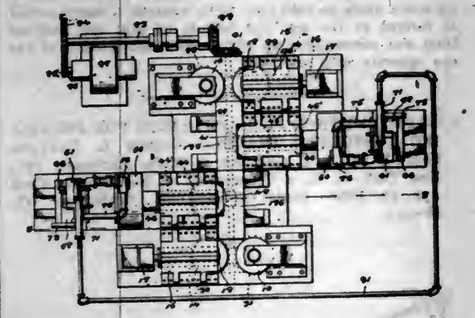
1,457,214. MACHINE FOR TESTING HARDNESS OF MATERIALS. DONALD C. DAVIS, Buffalo, N. Y. Filed Apr. 26, 1919. Serial No. 292,815. 13 Claims. (Cl. 265—12.)



1. In a hardness testing machine, the combination of a movable testing member, means for yieldingly resisting movement thereof, means for causing a sample to press against said testing member and move the same against said resistance, a gage which is actuated by said testing member and indicates the travel thereof, a measuring member which moves relatively to the testing member when the latter is moved, and a device which is moved by said measuring member and which is additionally movable relatively thereto to further actuate the gage to indicate the depth of the indentation made in the sample by the testing member.

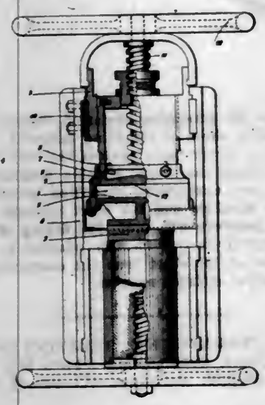
1,457,215. RAIL-STRAIGHTENING PRESS. JAMES S. DAYTON, Cumberland, Md. Filed Dec. 13, 1920. Serial No. 430,298. 36 Claims. (Cl. 153—80.)

1. In a machine of the class described, power operated means for applying pressure to the work, and means controlled by the initial pressure of the work on an element of the means first named, and by the movement of said



means, for controlling the degree of pressure to be applied through the power operated means.

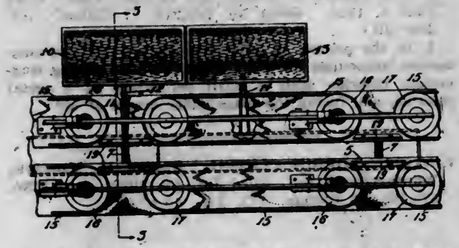
1,457,216. MOLDING MACHINE. PAUL DEHÈ, Paris, France. Filed Aug. 15, 1919. Serial No. 317,791. 1 Claim. (Cl. 49—35.)



In a molding press, the combination of a mould having stationary vertical walls, a coaxial compressing piston of smaller cross-section than that of the mould, a peripheral portion slidable on the said coaxial piston and adapted to bear upon the edge of the mould on the descent of the coaxial piston, a sleeve wherein the coaxial piston is vertically guided, and guideways having the said sleeve horizontally slidable therein in order that when the said sleeve and the said piston are separated from the mould the plastic material can be poured into the latter.

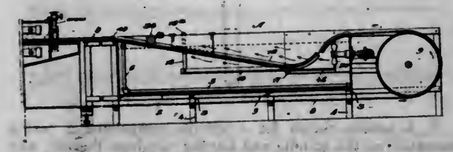
1,457,217. APPARATUS FOR APPLYING PARAFFIN TO SOAP CAKES. GEORGE A. DOSTAL, New York, N. Y., assignor to Pictorial Soap Manufacturing Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,149. 6 Claims. (Cl. 91—38.)

1. An apparatus of the character described comprising in combination parallel spaced ways arranged to support soap cakes adjacent their side edges only, a paraffin tank beneath said ways, heating means therefor, said tank being arranged to radiate heat against the soap cakes on the ways, a wick arranged to conduct paraffin from the tank and apply it to the under face of soap cakes moved along said ways, and conveyor means for moving soap cakes along said ways and over said wick.



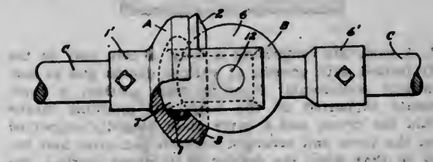
5. The method of applying paraffin to soap cakes which comprises applying successively a plurality of coats of paraffin to one face of a soap cake and applying heat to said soap cakes between the applications of paraffin substantially as and for the purpose described.

1,457,218. METHOD OF AND APPARATUS FOR AUTOMATICALLY CLEANING, SCALDING, AND PEELING FRUIT. ALFRED I. DU PONT, Wilmington, Del., and HIRAM R. HARDING, Baltimore, Md., assignors to The Harding Peeling Machine Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 24, 1922. Serial No. 531,498. 6 Claims. (Cl. 146—194.)



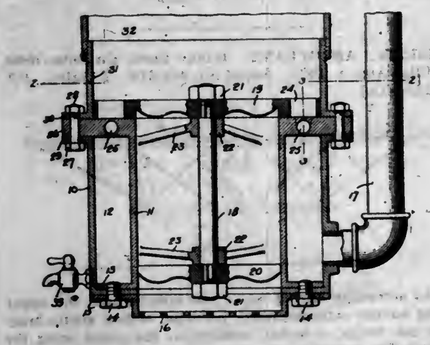
1. The method of preparing fruit such as tomatoes, for a peeling and coring operation, which consists in immersing the fruit in a water bath, creating a current in the upper portion thereof to cause a definite movement of the fruit adjacent the surface of the water, separating the moving fruit into parallel channels and conveying it in a continuous succession in spaced alinement.

1,457,219. UNIVERSAL JOINT. MAURICE G. DUSSEAU, Los Angeles, Calif., assignor of one-twentieth to Adolphe Danziger, Los Angeles, Calif., and nineteen-twentieths to Positive Traction Motors Corporation. Filed Apr. 29, 1920. Serial No. 377,652. 3 Claims. (Cl. 64—91.)



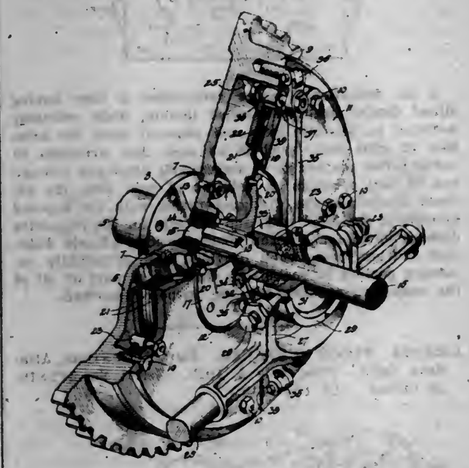
1. A universal joint comprising a concave member and a spherical member arranged to seat against said concave member, and a dovetailed locking rim extending around a portion of said sphere and pivoted thereto at diametrically opposite points, said concave member having a locking guideway correspondingly dovetailed and arranged to receive said locking rim, said locking rim being slidable into said locking guideway by turning said locking rim upon said sphere until its circumference is at right angles to the axis of said spherical member of the joint and then rotating said spherical member upon said axis.

1,457,220. PUMP. MAXIME P. FERRES, Brooklyn, N. Y. Filed Aug. 18, 1921. Serial No. 493,870. 7 Claims. (Cl. 103—87.)



1. A steam pump of the class described comprising a jacketed pump cylinder bodily submergible with its jacket in the material to be pumped, steam supply means for the steam jacket of the cylinder, and drive means in position to be submerged with the submergence of the cylinder and actuated by the steam escaping from the steam jacket.

1,457,221. DRY-PLATE CLUTCH. OTTO E. FISHBURN, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 20, 1921. Serial No. 438,690. 12 Claims. (Cl. 192—52.)

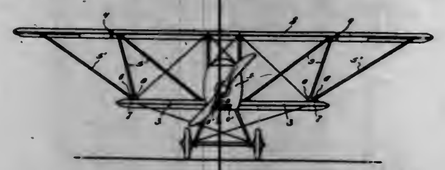


1. In a clutch, the combination of driving and driven members having respectively friction surfaces adapted to be brought into engagement, one of said members being flexible, operating means adapted to cause bending of said flexible member when the said means is actuated to disengage the clutch surfaces, and means for engaging said members whereby portions of said friction surfaces are brought into contact previous to the contacting of other portions thereof.

6. In a clutch, the combination of a driving shaft, a driven shaft, friction members carried on said shafts respectively, non-rotating clutch-operating means surrounding said driven shaft but out of contact therewith, and clutch-releasing means carried by the driving shaft

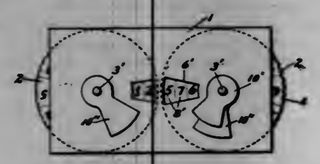
and adapted to be actuated by said non-rotating means, said operating means being supported independently of said releasing means and normally out of engagement therewith when the clutch is engaged.

1,457,222. AEROPLANE. HARRY FREY, Du Bois, Nebr. Filed Aug. 1, 1921. Serial No. 488,876. 1 Claim. (Cl. 244—12.)



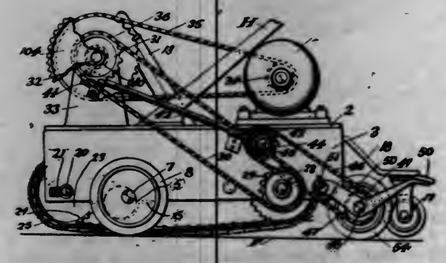
An aeroplane having upper and lower wings, the upper wing having extended hinge portions, hollow struts bracing the wings, a socket member on the lower wing for detachably receiving the lower end of the strut which is connected with each foldable part and a socket on the fuselage for receiving said strut when the wing is folded.

1,457,223. EDUCATIONAL DEVICE. LUKE L. GALLUP, Los Angeles, Calif. Filed Apr. 28, 1921. Serial No. 465,260. 2 Claims. (Cl. 35—2.)



1. An educational device comprising a base having alined display openings formed therein, disks rotatably mounted on separate axes and disposed upon the same face of said base, symbols on each disk arranged in radial series adapted to be successively displayed through one of said openings on rotation of said disk, the exposed symbols of one disk cooperating with the exposed symbols of the other disk, and shutters for the respective disks mounted for rotation about the axes of said disks, said shutters being each provided with a radially extending portion to enable the covering of part or all of the respective openings for the purpose described.

1,457,224. FLOOR SURFACER. EMIL B. GUNTHER, Altadena, Calif. Filed July 5, 1922. Serial No. 572,816. 25 Claims. (Cl. 144—115.)



1. A floor surfacer having an endless traveling link-mat chain of surface-scraping means.

1,457,225. METHOD OF MAKING MAGNESIUM. GEORGE HUTCHINSON, Arcadia, Calif., assignor of one-half to Thomas H. Wright, Los Angeles, Calif. Filed June 1, 1922. Serial No. 565,214. 7 Claims. (Cl. 204—19.)

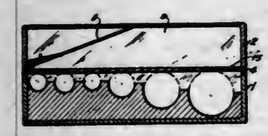
1. In the process of producing magnesium from magnesium compounds the steps which comprise mixing magnesium chloride with a small percentage of a metal chloride, and fusing the mass under access of air.

1,457,226. BOBBIN CLUTCH. GEORGE H. MAGRATH, Whitinsville, Mass. Filed July 29, 1922. Serial No. 578,435. 5 Claims. (Cl. 242—46.4.)



1. A bobbin clutch for a spindle comprising a casing mounted on the spindle and having openings therein, and a plurality of spring fingers mounted in fixed position within said casing and having outwardly displaced portions of their free ends projecting outwardly through said openings to engage and hold a bobbin on said spindle.

1,457,227. CASH BOX. LORA G. PRICE, Los Angeles, Calif. Filed Oct. 14, 1920. Serial No. 416,807. 2 Claims. (Cl. 133—11.)

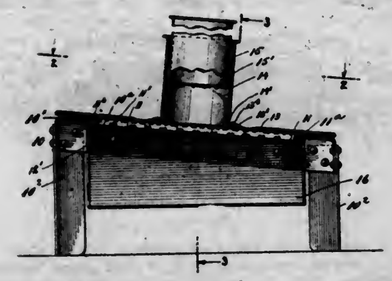


1. A cash box comprising a body, a coin tray in the body formed with grooves at various depths and of substantially semicircular form in cross section, a cover hingedly supported on the body, bill retaining means within the cover, and a cover plate hingedly supported upon the cover and arranged between the cover and the body so that when the former is in closed position the plate will engage the coins contained in the grooves and prevent movement of the latter within the grooves.

1,457,228. GRATER. JACOB I. ROBIN, New York, N. Y. Filed Sept. 26, 1921. Serial No. 503,769. 2 Claims. (Cl. 146—15.)

1. In a device of the character described, an elevated base having a longitudinal opening, a dish shaped grater formed with a marginal flange adapted to engage the marginal edge of said opening and to removably support said grater on said base, a removable slide on said base

formed with an opening to receive the article to be grated, means on said slide engaging the sides of said base to guide it longitudinally and a tubular member



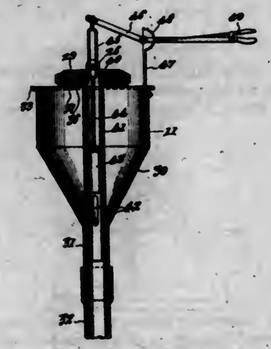
removably clamped to said slide over said opening to form a receptacle for the article to be grated and serve as a handle.

1,457,229. RAILROAD SWITCH. MARION ROBINSON, Princeton, W. Va., assignor of one-half to Mrs. Louisa Markland, Jenkins, Ky. Filed May 12, 1922. Serial No. 560,319. 3 Claims. (Cl. 246—318.)



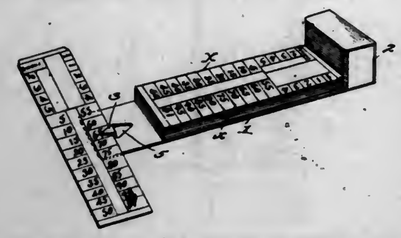
1. A switch mechanism for controlling the communication between a sliding and the main line and including movable switch rails, having a rocker operatively connected with the switch rails for alternately positioning them in operative relation with opposite track rails and trips operatively connected with the rocker and located adjacent to the track rails respectively inside and outside of the siding for actuation in a common direction corresponding with the direction of movement of a car, for shifting the switch rails successively in opposite directions, each trip being provided with a beveled contact terminal and full stroke mechanism connected therewith for holding the trip alternately in its set positions.

1,457,230. COMBINED PLANTER AND FERTILIZER DISTRIBUTOR. FRANCIS B. ROUBIQUE, Napoleonville, La. Filed Jan. 30, 1922. Serial No. 532,766. 6 Claims. (Cl. 221—141.)



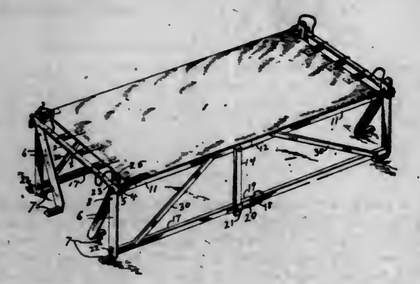
1. A machine as described comprising a hopper having an outlet nozzle, a cylindrical barrel fitted through the hopper and nozzle and having its interior in communication with the interior portion of the hopper, means to continuously rotate said barrel, means in the barrel for restricting the flow of the material from the hopper and into the interior of said barrel, and means on the exterior of the hopper for adjusting said means, substantially as described.

1,457,231. CHECK-NOTCHING DEVICE. WALTER C. SCOTT, Philadelphia, Pa., assignor to Globe Ticket Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1922. Serial No. 538,354. 7 Claims. (Cl. 211—37.)



1. A check notching device comprising a support to hold a pack of checks, a notching tongue spaced from the support to receive an edge of a check to be notched, and means operable relatively to the notching tongue to hold such edge of the check immovable relatively to the notching tongue.

1,457,232. PORTABLE FOLDING SECTIONAL CAMP COT. JOSEPH H. SHENEY, Decatur, Ill. Filed Dec. 4, 1922. Serial No. 604,965. 3 Claims. (Cl. 5—114.)

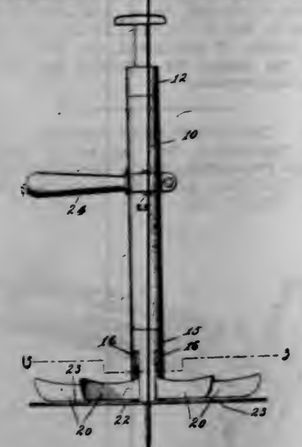


1. A folding sectional cot, comprising folding side arms having shouldered headers, other side arms having key locks, legs having feet pointing in different directions, the legs provided with openings to engage the side arms, end cross arms constructed to engage the headers of the side arms, means to clamp the headers, legs, and end cross arms, and a detachable pad arranged to engage the end cross arms.

1,457,233. PIE-CUTTING DEVICE. JOSEPH J. SLOVACK, Sunderland, Mass. Filed Nov. 14, 1921. Serial No. 515,005. 2 Claims. (Cl. 146—7.)

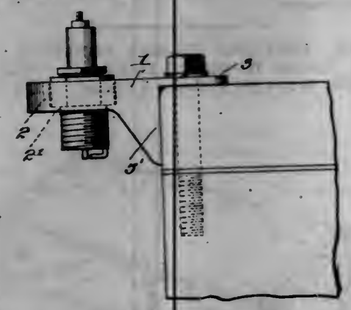
1. A device of the class described comprising a supporting element, a reciprocable element carried thereby, said element being movable manually with reference to the supporting member, a spring for returning the reciprocable element to normal position after the manual operation, radial blades carried by the reciprocable element, a plate member provided with radial slots, the

angle between the slots corresponding with the angle between the blades, and means carried by the supporting



member for guiding the blades, a pin mounted for vertical movement within the lower end of the reciprocable element, and a spring acting to force the pin downwardly.

1,457,234. PLUG HOLDER. ELMER J. STROUT, Utica, Ill. Filed Oct. 9, 1922. Serial No. 593,314. 1 Claim. (Cl. 81—121.)

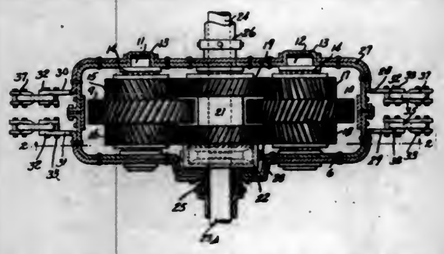


A spark plug holder comprising a plate having a socket in its upper part shaped to fit a spark plug and a hole in the lower part which passes through the bottom wall of the socket, a rear extension on the plate of less thickness than the plate and having a hole therein and a depending part on the plate having its rear face extending at right angles to the bottom of the extension, said depending part having a slot therein and bracing parts connecting the depending part with the bottom of the plate.

1,457,235. AZO DYESTUFFS. RICHARD STÜSSER, Dentz, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 23, 1921. Serial No. 524,483. 4 Claims. (Cl. 260—80.)

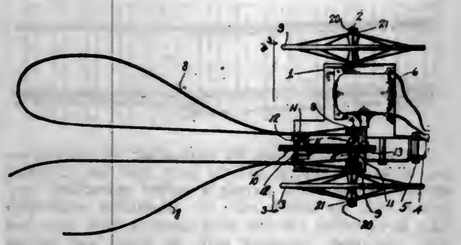
1. The herein described new azo dyestuffs, which are after being dried and pulverized in the shape of their alkaline salts dark powders soluble in water and in concentrated sulfuric acid generally with from a yellow to blue coloration; yielding by reduction with stannous chlorid and hydrochloric acid 4.4'-diaminodiphenyl-3.3'-dicarboxylic acid, and two aromatic amines, one and only one of which contains an acid group; dyeing cotton from yellow to orange to violet to blue shades which by an aftertreatment with copper salts generally change into deeper shades fast to light and to washing, substantially as described.

1,457,236. TRANSMISSION-GEARING UNIT. PAUL V. TROUPE, Moline, Ill. Filed Nov. 4, 1921. Serial No. 512,720. 3 Claims. (Cl. 74—7.)



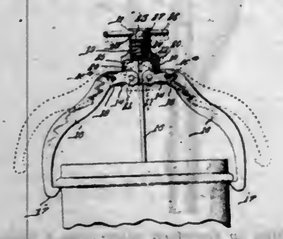
1. A gearing unit which comprises a driving shaft, a pair of worms thereon, a pair of ring gears meshing respectively with the worms, smaller gears connected rigidly on opposite sides of each ring gear, a driven sleeve, and a pair of driven gears connected thereto, each of said driven gears being meshed on opposite sides thereof respectively with the gears associated with the said ring gears.

1,457,237. CARPET-BEATING MACHINE. MARTIN VAN BUREN, Dayton, Wash. Filed May 23, 1921. Serial No. 471,749. 1 Claim. (Cl. 15—92.)



A carpet beating machine of the class described comprising a wheeled frame, a handle adjustably secured to said frame and a motor rotatably mounted upon the frame, a pair of beaters secured upon the frame which are formed of wire looped upon itself and having its ends secured to a part of the frame and spirally wound thereon to provide springs which are adapted to hold the beaters against a part of the frame, a rotatable disc mounted in the frame between the beaters, a series of pins carried by said disc and adapted to engage projections provided on the beaters, said disc having teeth provided on the periphery thereof and a gear provided on the shaft of a motor which is adapted to mesh with said teeth for rotating the disc upon rotation of the motor.

1,457,238. CAN LIFTER AND ICE TONGS. GUSTAVE VERGOTH, Marshall, Minn. Filed Jan. 24, 1922. Serial No. 531,398. 3 Claims. (Cl. 294—106.)



1. A device of the character described comprising a hollow head, a plurality of downwardly extending arms

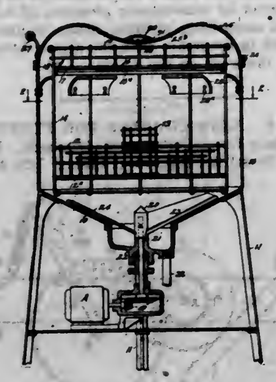
pivotally connected with said head and terminating inwardly extending hooks, a bolt member slidable through the head and pivotally connected with the inner ends of said arms, spring means normally swinging said arms with their inner ends inwardly, a handle connected with said bolt member, and finger engaging loops projecting laterally from said head.

1,457,239. LAMP FILAMENT AND SUPPORT. ALEXANDER SAMUEL VOLPIAN, Savannah, Ga. Filed Oct. 25, 1921. Serial No. 510,374. 6 Claims. (Cl. 176—16.)



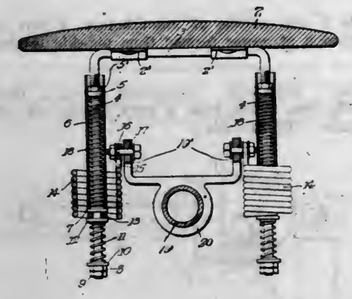
1. A filament support having two ring-like frames one within the other, and both disposed in a plane transverse to the longitudinal axis of the lamp enclosing said frame, and a filament running back and forth between said frames and alternately making contact with the respective frames.

1,457,240. DISHWASHING MACHINE. ULYSSES S. G. WELSH, Brooklyn, N. Y. Filed May 15, 1920. Serial No. 381,779. 11 Claims. (Cl. 141—9.)



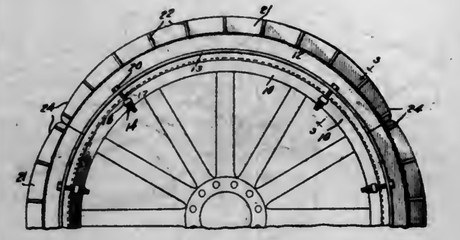
11. In a machine of the class described, a container adapted to receive articles to be washed, water-agitating means therein at the bottom adapted to direct water upwardly to said articles as well as toward the sides of the container, and means to deflect the water continuously inwardly and downwardly to the articles from the sides of the container.

1,457,241. MOTOR-CYCLE ATTACHMENT. CHARLES S. WILLIAMS, North Billerica, Mass., assignor to Charles A. Persons, Worcester, Mass. Filed Oct. 31, 1921. Serial No. 511,716. 4 Claims. (Cl. 208—100.)



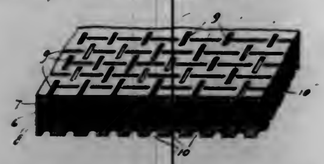
1. The combination with a motorcycle, of a seat support therefor, comprising members secured to the seat, depending therefrom and straddling the top bar of the machine, a shock absorbing spring and a rebound spring adjustably sustained on said members, and a supporting spring surrounding each of said members having its upper convolution secured to the machine frame and having its lower convolution extended inwardly and formed with eyes arranged for slidable movement on the respective members between the shock absorbing and rebound springs.

1,457,242. TRACTION SHOE FOR WHEELS. FREDERICK PETER GIRODO, New York, N. Y. Filed Nov. 5, 1921. Serial No. 513,185. 1 Claim. (Cl. 152—4.)



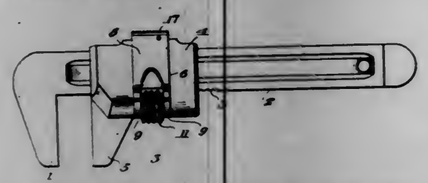
A traction shoe for vehicle wheels, comprising a segmental body adapted to be removably secured upon the tire of the wheel, said body being provided with a longitudinal rib having its ends gradually decreasing in height, and with a plurality of transverse ribs on each side of the longitudinal rib, the transverse ribs adjacent the ends of the body being reduced in height corresponding to the height of the ends of the longitudinal rib, the longitudinal rib being approximately double the thickness of the transverse ribs.

1,457,243. DRIVE-BELT MATERIAL. HAROLD M. GUSDORF, Indianapolis, Ind. Filed Apr. 19, 1920. Serial No. 375,160. 2 Claims. (Cl. 74—62.)



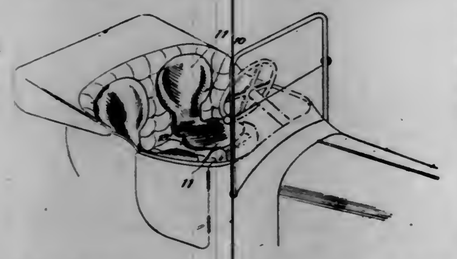
1. As a new article of manufacture, a belt for the transmission of power formed from pig-skin leather.

1,457,244. WRENCH. ALPHONSE GUTTLY, Wisconsin Rapids, Wis. Filed Sept. 6, 1921. Serial No. 498,817. 1 Claim. (Cl. 81—158.)



A wrench including a jaw having a toothed shank, a carriage slidable on the shank and provided with a jaw, said carriage having aligning grooves in its sides and tap and it lower edge notched in alignment with the grooves, said carriage being also provided with a depression in the grooved portion of its top, a yoke having its arms mounted within the grooves of the sides and extending beyond the top of the carriage, said arms being provided with channels in their opposite faces near their outer ends, a screw mounted in the bottom of the yoke within the notch in the carriage, a plate mounted in the channels of the arms and provided with a recess opposite that in the top of the carriage, and a coil spring mounted between said plate and carriage having an end seated in each recess.

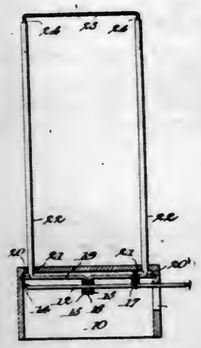
1,457,245. SEAT. ERSKINE POLK HARLEY, Oklahoma, Okla. Filed June 7, 1921. Serial No. 475,614. Renewed Apr. 5, 1923. 7 Claims. (Cl. 155—131.)



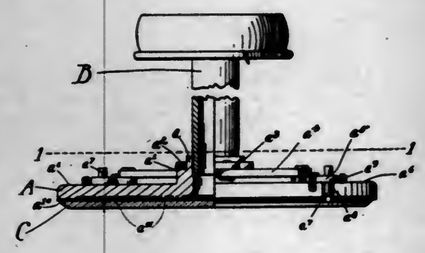
5. An auxiliary vehicle seat comprising a convoluted element and means to support the successive convolutions at equally spaced distances and an enclosure for said element and means, held extended by said element and means, to allow free passage of air therethrough.

1,457,246. BAG HOLDER. CHARLES J. HAUSE, Asbury Park, N. J. Filed Apr. 7, 1922. Serial No. 550,531. 3 Claims. (Cl. 83—26.)

1. In a device of the class described, the combination of a base, a plurality of frames pivotally mounted therein, a pivotally mounted member connected to both of said frames, means for holding said member in a predetermined position, and a treadle for holding said member, uprights extended from said frames through said base, and bag holding elements adjustable on said uprights.

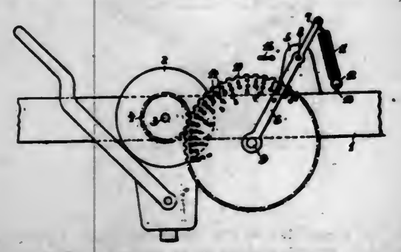


1,457,247. CENTERING CHUCK. WALTER J. HERSCHEDE and WALTER EBERHARDT, Cincinnati, Ohio. Filed July 26, 1920. Serial No. 398,995. 7 Claims. (Cl. 279—3.)



1. The combination with a chuck adapted to have work retained thereon by atmospheric pressure, of a work centering device comprising yielding means mounted on the chuck adapted to cooperate with the atmospheric pressure in retaining the work on the chuck.

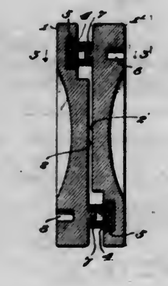
1,457,248. LINE COUNTER FOR TYPEWRITERS. KONRAD RIGH JAHN, Copenhagen, Denmark. Filed Dec. 29, 1922. Serial No. 609,708. 1 Claim. (Cl. 235—132.)



The combination with a typewriter including a carriage and a shaft supported platen rotatable in said carriage, of

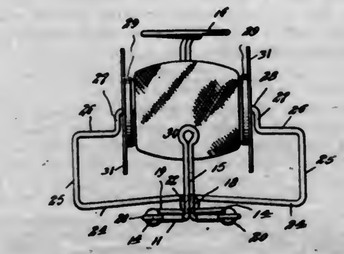
a gear wheel carried by said shaft, a lever pivotally mounted on said carriage, a gear wheel journaled in said lever and movable into mesh with the first mentioned gear wheel and having a plurality of openings therein, a stop member selectively engageable in said openings and projected laterally of the second mentioned gear wheel adapted to engage said lever to arrest the rotary movement of the second mentioned gear wheel at a predetermined point, means normally retaining the second mentioned gear wheel in mesh with the first mentioned gear wheel, and a plurality of series of opening identifying characters on the second mentioned gear wheel.

1,457,249. ELECTRICAL PROTECTOR. GEORGE W. JANSON, Brooklyn, and LEWIS H. ROVERE, Richmond, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed July 12, 1921. Serial No. 484,238. 4 Claims. (Cl. 175—30.)



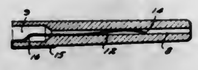
4. A protector, comprising two identical blocks, each having a plane conducting surface and a recessed cut-away portion, and a heat softenable insulating post embedded in the recess in said cut-away portion and extending beyond said conducting surface.

1,457,250. HOLDER. HENRY L. JOHNSON, Dawson, Minn. Filed Aug. 25, 1922. Serial No. 584,375. 5 Claims. (Cl. 242—141.)



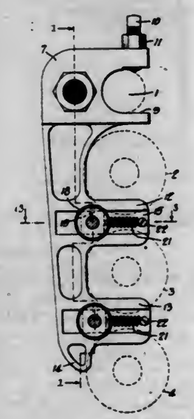
1. A holder embodying a base, a transversely pivoted yoke mounted thereon, a holder carried by the yoke and adapted to removably support a ball of thread and a stationary thread guide located intermediate the ends of the ball.

1,457,251. CIGARETTE HOLDER. WINSOR JOSSELYN, Carmel, Calif. Filed Nov. 26, 1919. Serial No. 340,759. 7 Claims. (Cl. 131—10.)



6. The combination with a cigar or cigarette holder having a longitudinal bore therethrough of a butt ejector mounted therein and being capable of reciprocatory motion with respect thereto, and a resilient scraper element carried by said ejector, said scraper engaging the walls of the bore to frictionally retain the ejector in any one of a plurality of predetermined positions and to clean the walls of said bore when the ejector is operated.

1,457,252. INK DISTRIBUTOR. DAVID VARIUS KAUFMAN, New York, N. Y., assignor of one-half to Isidore Schmertzler, New York, N. Y. Filed May 25, 1921. Serial No. 472,380. 5 Claims. (Cl. 101—348.)

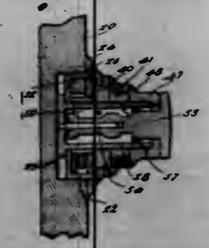


1. In an ink distributor for printing presses, a hinged supporting frame, rollers carried by said frame and adapted to engage the distributing rollers of the press, means for removably connecting said frame to the printing press, said rollers reciprocating in a direction transverse to the direction of the frame, and resilient means acting on each of the rollers for yieldingly holding the same against the distributing rollers, said rollers and said frame being attachable on said press as a unit.

1,457,253. LOCK. ANDREW KENDECHY, Cleveland, Ohio. Filed Apr. 12, 1922. Serial No. 551,806. 5 Claims. (Cl. 70—53.)

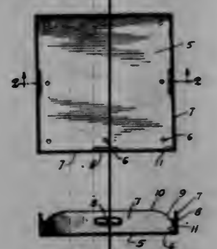
1. A permutation lock comprising a casing, a locking bolt operating therein, a hollow cylindrical member mounted for rotation within the casing and extending beyond one wall thereof, a collar mounted for rotation within the casing upon the hollow cylindrical member, means for holding the collar against movement, means for operatively connecting the latter and the locking bolt, whereby rotation of the collar will operate the bolt, a plurality of indicia carrying members mounted for rotation upon the hollow cylindrical member upon the outside

of the casing, means including an operating knob, whereby all of the indicia carrying members may be locked together



and means whereby the indicia carrying member locking means will release the collar holding means to permit of the operation of the locking bolt.

1,457,254. SOAP HOLDER. MILTON B. LOEB, New York, N. Y., assignor to Brillo Manufacturing Co., a Corporation of New York. Filed June 17, 1922. Serial No. 569,126. 1 Claim. (Cl. 45—28.)



A rectangular holder for holding a cake of abrasive or polishing soap while in use comprising a bottom portion provided with outwardly pressed corrugations, such corrugations forming supports for the holder and serving as stiffening ribs for the bottom portion thereof, the corrugations being apertured for drainage purposes, and vertically disposed side walls extending all the way around the bottom portion, the holder being deeply notched at each corner by the cutting away of adjacent end portions of the side walls down to the bottom of the holder, for permitting access to the soap in the angles and corners thereof.

1,457,255. SIGN. FRED E. LOVELESS, Chicago, Ill., assignor of one-half to Leroy M. Fudge, Hammond, Ind. Filed Aug. 26, 1922. Serial No. 584,423. 7 Claims. (Cl. 40—125.)



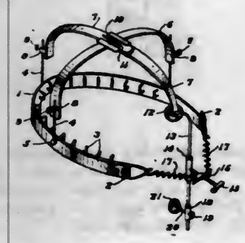
7. In a sign, a combination with a support of a display surface, an integral resilient clamping means associated with opposite edges of said display surface and extending throughout the length thereof for removably locating it upon the support.

1,457,256. TORCH. JOHN R. MCKELLAR, Oakland, Calif. Filed June 10, 1922. Serial No. 567,350. 1 Claim. (Cl. 158—10.)



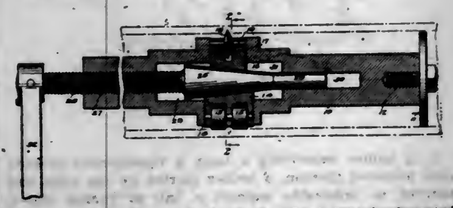
A torch of the class described, comprising a rod, a frame and wicking twisted around the bars of the frame and means for expanding the frame to bow the said bars.

1,457,257. HAIR-BOBBING DEVICE. PHILIP A. MCLAUGHLIN, Chester, Pa. Filed July 29, 1922. Serial No. 578,374. 2 Claims. (Cl. 132—45.)



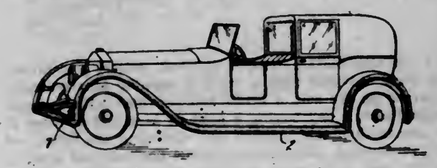
1. In a device of the character described, the combination of a resilient gripping member, oppositely diametrically disposed, transverse bridging members adjustably carried thereon, vertically adjustably supporting means carried by one of said bridging members and adapted for facial contact, adjusting spring members co-operating with said resilient gripping member and said supporting means, and a series of hair retaining stays on the inner face of said resilient gripping member adapted to hold the hair of a wearer against displacement during the operation of cutting.

1,457,258. BOILER-TUBE CUTTER. MICHAEL MAHER, Bay City, Mich. Filed Aug. 22, 1922. Serial No. 583,546. 1 Claim. (Cl. 81—195.)



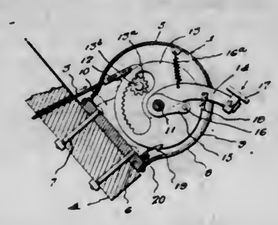
A tube cutter including a body adapted to be inserted into the tube to be cut, a cylindrical chamber formed in said body, said chamber merging at one end into a blind bore and at the other into a threaded bore, a cone formed at one end with a spindle to fit into said blind bore and at the other with a threaded shank guided in said threaded bore arranged in said cylindrical chamber, said body adjacent its center between its ends presenting an opening merging into said cylindrical chamber, and a block carrying a circular cutter at one side and formed at the other with a tapering face transversely curved and longitudinally arranged in said opening, said tapering face of said block mating with the tapering surface of the cone so as to move laterally when the cone is moved longitudinally.

1,457,259. RESILIENT BUMPER FOR MOTOR VEHICLES. ASSAD M. MALLUK and JEAN U. KORZE, New York, N. Y., assignors to International Patent Investment Corporation, New York, N. Y., a Corporation of Delaware. Filed June 9, 1922. Serial No. 567,023. 10 Claims. (Cl. 293—55.)



10. In combination with an automobile, a resilient bumper secured thereto and arranged to protect the sides of the vehicle as distinguished from the ends thereof, said bumper comprising a resilient outer casing and a wire reinforced inner tube.

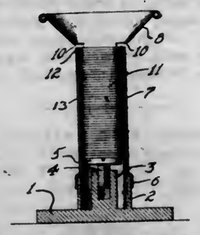
1,457,260. AUTOMOBILE DIRECTION SIGNAL. GEORGE W. MASON, Lincoln, Nebr. Filed Feb. 11, 1922. Serial No. 535,844. 2 Claims. (Cl. 74—39.)



1. A direction-signal control including a casing, a shaft journaled in bearings in the casing, a rock shaft journaled in bearings in the casing and equipped with resilient and beveled keepers, and also equipped with a handle operable without the casing, manually operable levers loose on the first named shaft and extending without the casing and movable relative to the casing, lugs fixed to the first named shaft and having portions opposed to and adapted to be engaged by said levers, spring means to return the levers to normal position, a drive gear fast on the first named shaft and having an internal arcuate toothed portion, and a gear meshed with said toothed portion.

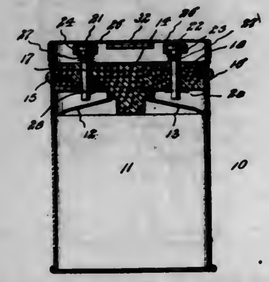
1,457,261. COIN COUNTER. JAMES CREIGHTON MATHEWES, Los Angeles, Calif. Filed Apr. 11, 1921. Serial No. 460,272. 2 Claims. (Cl. 133—1.)

1. In a coin counting device, a base having an upstanding sleeve, a post on the base extending centrally through the sleeve, said post having a threaded opening, a screw engaging therein, a disk head for the screw, and a coin



receiving tube having its lower end flanged and resting on the sleeve, as and for the purpose set forth.

1,457,262. SHOT-FIRING DEVICE. HENRY NEAL, Yukon, Pa. Filed Feb. 25, 1922. Serial No. 539,282. 2 Claims. (Cl. 204—38.)



2. In a device of the class described, a casing, a battery including terminals received by the casing, an element for retaining the battery in position, said element being countersunk in the casing at one end, providing a chamber between the end of the casing and said element, the element so countersunk being apertured at points opposite the terminals of the battery, spring held contact devices mounted within the apertures, a cap for the casing, and insulating guard members surrounding and projecting beyond the outer ends of the contact devices for preventing electrical contact with the cap of the casing, and retaining a straight conducting element laid across the contact devices out of electrical contact therewith until pressure is applied to said conductor for depressing the latter into engagement with the contact devices.

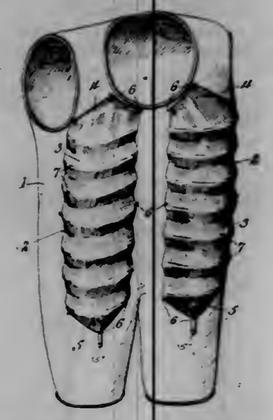
1,457,263. AUTOMOBILE SIGNAL. GEORGE WASHINGTON NICHOLSON and ARTHUR JAMES KELLY, Indianapolis, Ind., assignors to Safety First Auto Tail-Light Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 4, 1919. Serial No. 287,511. 1 Claim. (Cl. 177—337.)



In a vehicle signaling mechanism, a caution signal, a right-turn signal, a left-turn signal, circuits therefor

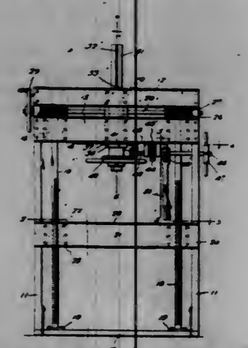
having spaced contacts, and a drum member having a single bridge piece for the contacts of each of the turn signals, and a plurality of bridge pieces for the contacts of the caution signal, including a bridge-piece in alinement with each of the turn-signal bridge-pieces, the opposed contacts being symmetrically disposed about the axis of the drum member, substantially as set forth.

1,457,264. BATHING SUIT. ANATOLE PANALLE, New Orleans, La., assignor of one-fourth to Lewis R. Lester, New Orleans, La. Filed Apr. 27, 1921. Serial No. 464,778. 1 Claim. (Cl. 9—20.)



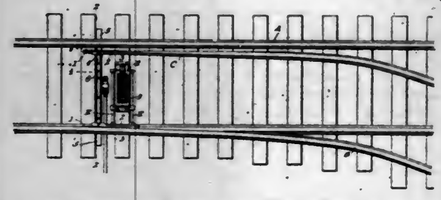
In a safety device for bathing suits, the combination of a member formed of a single piece of water and air proof material and having upper and lower walls adapted to be securely fastened to a bathing suit, ribs in triangular shape in cross-section adapted to be fastened at equi-distant points within the member whereby it will assume a triangular appearance with respect to the bathing suit; said ribs being further constructed to bear one upon the other when the suit is folded, and means arranged in the lower end of the member for inflating the same.

1,457,265. PRESS. LELAND E. PECK, Wyoming, Iowa. Filed Mar. 25, 1921, Serial No. 455,471. Renewed Apr. 21, 1923. 3 Claims. (Cl. 164—101.)



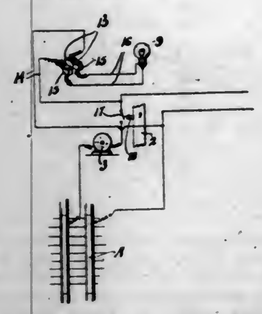
1. A device of the character described comprising a vertical frame presenting a work-table at its lower portion and a vertically disposed internally threaded bearing at its upper end and overlying the said table, a gear swiveled in a bracket at the lower end of the bearing and presenting a threaded bore in line with the bearing, a tool-holder threadedly engaging the said bearing and the threaded bore of the said gear, a shaft journaled in bearings horizontally of the said frame, a pinion on one end of the shaft engaging the said gear, and means at the other end of the said shaft for rotating the shaft.

1,457,266. SWITCH LUG. DAVIS A. PICKENS, Jackson, Miss. Filed Dec. 13, 1921. Serial No. 522,032. 2 Claims. (Cl. 246—435.)



1. In combination with a railroad switch, a reinforcing strip provided with a vertical opening longitudinally enlarged at the top, a bridle rod provided with a longitudinal slot, a key having a head at each end adapted to be passed thru said opening and slot when the bridle rod and reinforcing strip are in parallel position and adapted to lock said parts upon swinging the reinforcing strip to its position against a side and flange of the rail at right angles to the bridle rod, reinforcing strips mounted on said bridle rod having notched ends adapted to engage the key shanks and flanges of the rails, a block mounted between the rails, a spring plunger mounted in said block, a cross piece mounted on said plunger, and rods connected with said cross piece bearing under pressure of the spring plunger against one of the rail reinforcing strips.

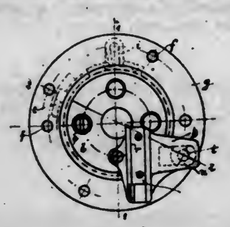
1,457,267. SIGNAL. JOSEPH D. PUTERBAUGH, Fremont, Ohio. Filed Aug. 23, 1922. Serial No. 583,882. 3 Claims. (Cl. 246—128.)



1. A signal of the class described comprising a housing, a vertically movable member therein, a motor for raising the member, means for closing the circuit to the motor by a train approaching the crossing, means for breaking the circuit of the motor when the member reaches a certain position, a latch for holding the member in raised position and means actuated by the train for disengaging the latch after the train passes the crossing.

1,457,268. AUTOMATIC CHUCK. RUDOLF REINERT, Kabel, Germany. Filed Nov. 5, 1921. Serial No. 513,199. 2 Claims. (Cl. 10—100.)

2. In a self opening chuck, in combination, a body, chaser holders pivoted to said body, a head adapted to rotate on said body and operatively connected with said chaser holders, means for rotating said head, a spring se-



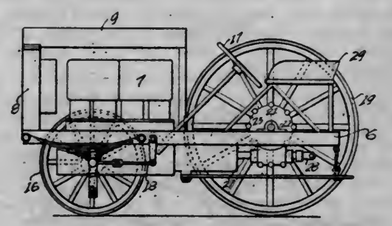
cured to said head and a pin secured to said body and adapted to be engaged by said spring when the head is rotated in a given direction.

1,457,269. TRAFFIC SIGNAL. BENJAMIN A. REXFORD, Alton, Ill. Filed Jan. 30, 1922. Serial No. 532,788. 1 Claim. (Cl. 88—1.)



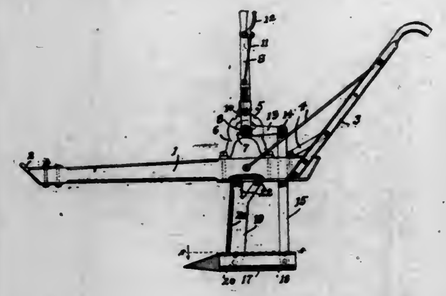
A device of the character described comprising a post adapted to be arranged at the center of street intersections, said post having a reduced upper extremity defining a shoulder, a spherical post of hollow formation having a mirrored surface, said body having diametrically opposed openings to receive the reduced end of said post, whereby said post reposes upon the said shoulder, and a disk centrally supported on said post and of a diameter greater than the diameter of said spherical post to project beyond the sides thereof, said disk constituting a shade for the purpose specified.

1,457,270. COMBINED TRUCK AND TRACTOR. JOHN RIEDER, Burlingame, Calif. Filed Apr. 7, 1922. Serial No. 550,409. 1 Claim. (Cl. 280—106.5.)



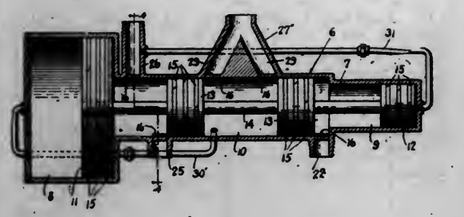
In a device of the character described, the combination of a tractor, having a frame, an axle mounted below said frame, springs secured to said frame and said axle, links pivoted to said frame, and adapted to have their opposite ends removably pivoted to said axle the pivotal connections of said links to said frame being on an angle of 90° with respect to the pivotal connection of said links to said axle for the purpose of causing said springs to be inoperative in all directions during the period of connection of said links to said axle.

1,457,271. DRAIN PLOW. LORON RINEHART, Woodburn, Oreg. Filed July 8, 1921. Serial No. 483,359. 1 Claim. (Cl. 37—193.)



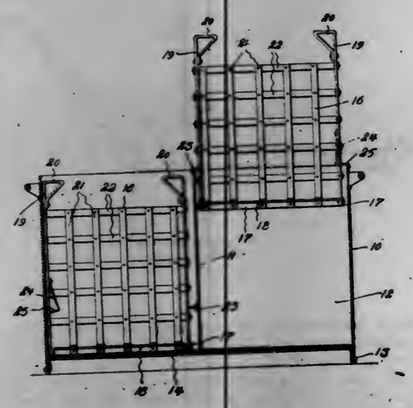
In an implement of the class described, a drill adapted to be pulled through the ground beneath the surface thereof in substantially a horizontal position, a mounting for the drill having draft connecting means and means for manually changing the horizontal angular position of the drill without withdrawing the same from beneath the ground surface, comprising a standard suspended below the said mounting and having a pivoted connection with the forward part of the drill and a manually controlled lever on the mounting including a vertically actuated rod with one end of the rod pivotally connected to the drill rearwardly of said standard, and the opposite end of the rod connected to said lever by a bell crank, said drill comprising a hollow cylindrical body with a solid pointed nose detachably connected to the body.

1,457,272. DRIFTING VALVE. HUGH LEONARD ROBERTS, Roanoke, Va. Filed July 31, 1920. Serial No. 400,311. 3 Claims. (Cl. 121—137.)



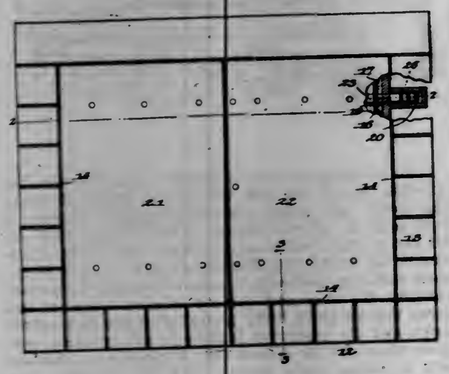
1. In a locomotive, a drifting valve connected with the cylinders thereof and with the exhaust of the air pump and stoker, said valve comprising a casing forming a medium sized central chamber, a small chamber at one end and a large chamber at the other end, a pair of pistons in the central chamber and a piston in each of the small and large chambers, a stem connecting the pistons together, the inlet port for the exhaust steam of the stoker and air pump being controlled by the first middle piston and the connection leading to the cylinders communicating with the central part of the central chamber, said connection being formed with two branches, one branch being controlled by the second middle piston, a pipe for delivering steam from the steam dome to the space between the small piston and one of the middle pistons, a pipe leading from the middle chamber to the outer end of the large chamber for leading steam from the cylinders and backing up into the middle chamber to the large chamber, and an exhaust connected with the space between the large piston and one of the middle pistons.

1,457,273. CLOTHES BOILER. MILES ROLFE, Vaxanda, Mont. Filed Oct. 10, 1921. Serial No. 506,747. 1 Claim. (Cl. 68—30.)



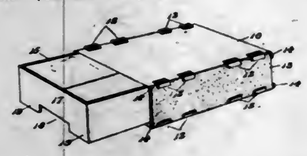
A clothes boiler of the class described comprising a partition dividing said boiler into compartments, drainers in said compartments respectively, handles on said drainers, a headed stud on one of said handles extending outwardly therefrom, a spring latch on the remaining handle normally in contact with the inner wall of the compartment when the drainer is in lowered position and adapted to spring outwardly when the drainer is withdrawn from the compartment to cooperate with said stud and engage the top of the compartment to hold the drainer in draining position.

1,457,274. SIDEWALK DOOR. MARION J. ROSS, Lynbrook, N. Y., and GEORGE T. ATKINSON, Philadelphia, Pa. Filed May 9, 1921. Serial No. 467,906. 4 Claims. (Cl. 94—34.)



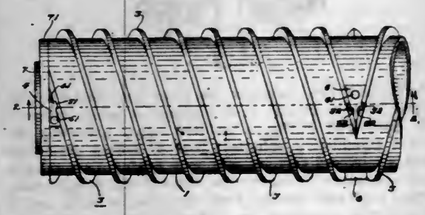
1. In a device of the class described, the combination of a framework having a counter-sunk opening and formed with ways from the margin of said framework to the bottom of said countersink, doors mounted so as to seat themselves in said opening and on the shoulder formed by the countersink, and sealing means between said doors and said shoulder.

1,457,275. SELF-CLOSING MATCH BOX. RAMON GONZALEZ, Manila, P. I. Filed Aug. 7, 1920. Serial No. 401,870. Renewed Oct. 26, 1922. Serial No. 597,139. 3 Claims. (Cl. 206—33.)



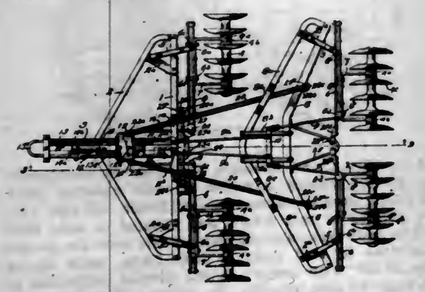
1. A device of the character described comprising a shuck formed as a rectangular casing, abrasive strip retaining means on the sides of said shuck, retaining lugs formed at the opposite ends of the shuck, a tray slidably disposed within the shuck and of less depth than the latter whereby to define a space between the bottom of the tray and the shuck, a spring of serpentine form disposed within said space and having its endmost convolutions engaging against said lugs, and the end walls of the tray being recessed for the accommodation of said lugs and to define at each end of the tray spaced lugs likewise engaging the endmost convolutions of the spring.

1,457,276. SPREADER CYLINDER AND THE LIKE. ARTHUR ISHERWOOD, Readville, Mass., assignor to Thomas Leyland & Co., Inc., Readville, Mass., a Corporation of Massachusetts. Filed June 20, 1922. Serial No. 569,747. 9 Claims. (Cl. 26—8.)



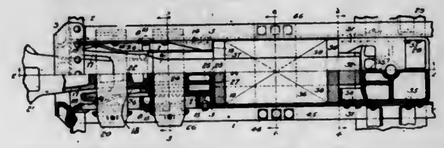
1. A helically ribbed or bladed spreader cylinder or the like comprising a helically grooved body and a pre-formed helical blade making at least one complete turn around said body, of a diameter to fit with tension closely around the cylinder in the helical groove, with fastenings engaging the ends of the helical blade to hold the ends from lifting out of the groove.

1,457,277. DISK HARROW. FREDERICK C. WARNE, Mansfield, Ohio, assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 10, 1920. Serial No. 372,825. 14 Claims. (Cl. 55—83.)



1. In a tillage implement, the combination of tandem frame units; a pair of bars pivotally connected to each of said units; means for simultaneously adjusting the angular relation of said bars to said frame units; a gang of disks for each bar; and means for securing said gangs in place at different positions along said bars.

1,457,278. DRAFT RIGGING. IRA ORVILLE WAIGHT, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1920. Serial No. 377,477. 9 Claims. (Cl. 213—67.)



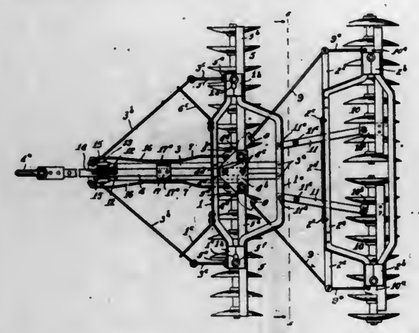
1. In a draft rigging, the combination with the center sills, of a coupler, a yoke slidably connected thereto, a cushioning mechanism within the yoke, a block interposed between the coupler and said mechanism and movable in one direction with the said coupler, means for connecting said block to the said sills, said means serving to transmit draft strains thereto, and means carried by the said sills and projecting inwardly therefrom for receiving draft strains when the same exceed the capacity of the first named means.

1,457,279. LIQUID-WEIGHING DEVICE. WILLIAM G. FINCH, Grand Rapids, and LEON R. FINCH, Ionia, Mich. Filed Sept. 17, 1921. Serial No. 501,326. 5 Claims. (Cl. 249—52.)



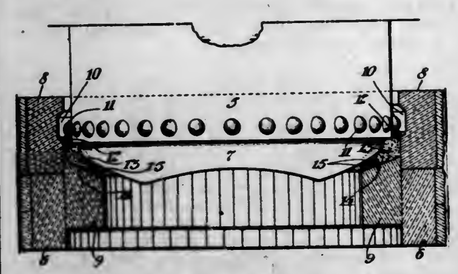
1. A device of the class described, comprising a tubular vertical support, a tube slidably mounted in the support said support and tube having openings in opposite sides located at different heights, the upper openings in said tube and support being adapted to come into conjunction at one position of the tube and the lower openings at another position of the tube, an inlet pipe connected with the support at the upper opening, an outlet pipe connected with the support at the lower opening, a plug in the tube below the lower opening thereof, a container attached at the upper end of the tube, a supporting bracket secured to and extending from the tubular support, an arm pivotally connected to the bracket, weights adjustably mounted on the arm, a lever pivotally mounted between its ends on said bracket, a link connecting one end of the lever with the weight arm, means operatively connecting the other end of the lever with the tube to raise or lower the tube on pivotal movement of the lever, and latching means for automatically holding the tube in lower position when moved thereto, substantially as described.

1,457,280. DISK HARROW. RICHARD H. GRIFFITH, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Filed Nov. 1, 1920. Serial No. 421,050. 18 Claims. (Cl. 55—83.)



1. In a harrow, tandem frame units and tillage gangs, a relatively fixed draft guide on one of said frame units, relatively movable draft connections guided by said guide and connected to the inner and intermediate portions of said front and rear tillage gangs, respectively, and relatively longitudinally fixed draft connections connected to one of said frame units and the opposite inner portions of said rear tillage gangs.

1,457,281. BOILER CONSTRUCTION. EDGAR KIDWELL, Milwaukee, Wis., assignor to Kidwell Boiler Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 12, 1920. Serial No. 416,393. 3 Claims. (Cl. 110—97.)

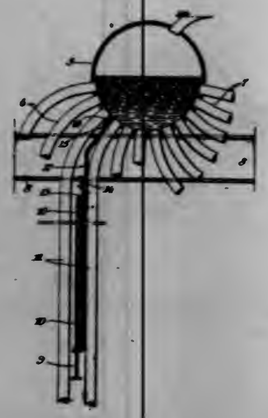


1. A boiler having a setting with an opening in the wall thereof, and a drum having its head and a portion of its cylindrical shell loosely entered in the opening, said opening being formed by a ring structure built into the setting and presenting two internal face portions whereof one encircles the shell and is in spaced relation thereto and has an annular groove in proximity to the drum head rivets, and whereof the other face portion is inclined and in spaced relation to the drum head, and packing material disposed between the ring structure and the adjacent portions of the drum head and shell, so as to bear against the opposing rivet heads and be restrained thereby.

1,457,282. BAFFLE FOR WATER-TUBE BOILERS. EDGAR KIDWELL, Milwaukee, Wis., assignor to Kidwell Boiler Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 12, 1920. Serial No. 416,394. 3 Claims. (Cl. 110—98.)

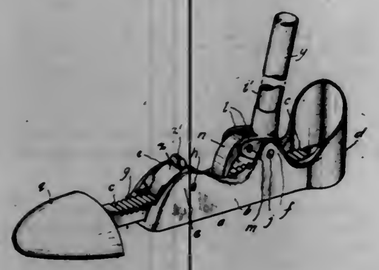
1. In a boiler of the series drum and tube type, the combination with a rearward drum and a rearward bank

of water tubes extending therefrom, of a baffle element associated with said tubes, said element comprising a tile structure spaced below the drum and a metal member occupying the space between said structure and the drum and shaped to lie in the upper curved space between ad-



jacent rows of tubes, a rigid support below the drum, and a connection between said support and the plate member for vertically adjusting said member to force its upper edge into close contact with the opposing wall of the drum.

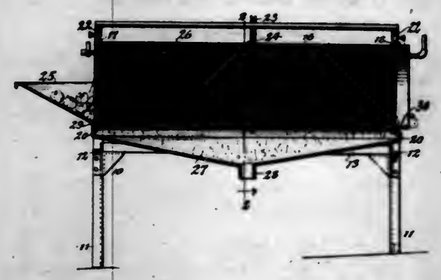
1,457,283. SHOE STRETCHER. JACOB SCHWIND, Portland, Oreg. Filed June 7, 1922. Serial No. 566,510. 6 Claims. (Cl. 12—128.6)



1. In a shoe stretcher of the type described, a base constituting a guide way, a rack-bar slidable in said guide-way, the latter being substantially of the same length as the rack-bar, a toe block rigidly attached to one end of the rack-bar, and means including a pawl for advancing the rack-bar, the planes of the under sides of the toe-block and the rack-bar making an acute angle with each other for the purpose specified.

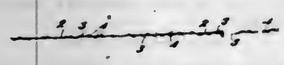
1,457,284. WASHER FOR VEGETABLES, ETC. OGDEN S. SELLS, Buffalo, N. Y. Filed Feb. 7, 1923. Serial No. 617,520. 3 Claims. (Cl. 146—200.)

1. A washer for vegetables and the like comprising a rotary reel having a plurality of longitudinal bars arranged in an angular row, and a supporting ring upon



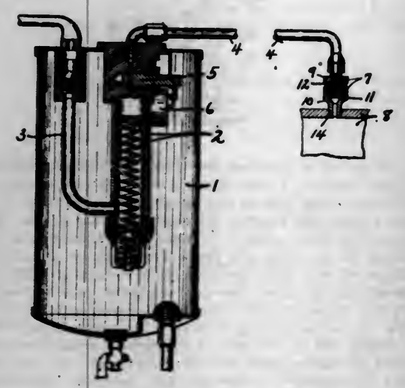
which said bars are mounted and the inner sides of which are flush with the innermost surface of said ring.

1,457,285. WALL BOARD MADE FROM BAGASSE AND ANALOGOUS FIBERS. JOHN K. SHAW, Minneapolis, Minn. Filed Oct. 23, 1920. Serial No. 419,045. 10 Claims. (Cl. 154—45.9.)



1. The herein described fiber board composed of bundles of fibers interlaced with each other, and more than ten per cent of said fiber bundles carrying natural pith like protuberances and hook like projections serving as entangling agents between the fibers, substantially as described.

1,457,286. FUEL-FEEDING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Dec. 11, 1920. Serial No. 430,005. 3 Claims. (Cl. 158—36.)



1. A fuel feeding device comprising a pumping device, a tank for receiving liquid from the pumping device, a conduit connecting the pumping device to an engine cylinder, means actuated by the liquid in said tank for controlling the flow of motive fluid from the engine cylinder

to the pumping device, and additional means for cutting off communication between the pumping device and the engine cylinder upon sudden expansion of the gases in the latter while permitting communication between the pumping device and the engine cylinder during the gradual compression of gas in the latter.

1,457,287. SINGLE-TUBE BICYCLE TIRE. ARTHUR K. TRENHOLME, Portland, Oreg. Filed Apr. 27, 1922. Serial No. 556,946. 2 Claims. (Cl. 152—20.)



2. The combination of a wheel having spokes projecting thru and beyond its rim, a single piece tire, having therein imbedded a reinforcement of penetration resisting material, adapted to permit the projecting spoke ends to partially penetrate the walls of said tire, thereby to effect an engagement between said projecting spoke-ends and the said side of the tire casing, when the tire is inflated, to hold the tire against longitudinal movement on the wheel rim.

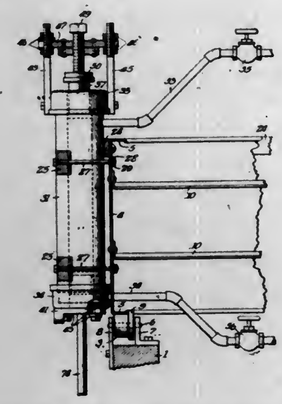
1,457,288. BRONZE ALLOY AND PROCESS FOR ITS PRODUCTION. PETER OSTENDORF, Berndorf, Austria. Filed Oct. 4, 1922. Serial No. 592,410. 3 Claims. (Cl. 75—1.)

1. An improved bronze alloy consisting of not less than 87 parts by weight of copper, 4½ to 10 parts by weight of tin, 1 to 5 parts by weight of nickel and 1 to 5 parts by weight of zinc.

1,457,289. COPPER AND ZINC ALLOY. PETER OSTENDORF, Berndorf, Austria. Filed Oct. 4, 1922. Serial No. 592,411. 2 Claims. (Cl. 75—1.)

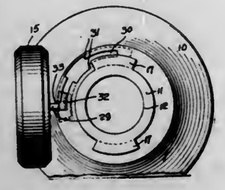
1. An improved alloy consisting of 40 to 55 parts by weight of copper, 3 to 15 parts by weight of nickel, 1 to 3 parts by weight of manganese, 1 to 2 parts by weight of iron, ½ to 3 parts by weight of aluminum and 25 to 40 parts by weight of zinc.

1,457,290. APPARATUS FOR MAKING RUBBER ROLLERS. SIMON E. SCHROEDER, Oak Park, Ill., assignor to Washington Rubber Co., Cicero, Ill., a Corporation of Illinois. Filed Feb. 17, 1922. Serial No. 537,143. 7 Claims. (Cl. 18—20.)



5. In an apparatus of the class described, the combination of a rotatable frame having a plurality of tubular molds mounted on the periphery thereof, means for heating the molds during rotation of the frame, a filling mechanism adjacent the path of the molds for inserting a roller endwise into the mold, and an ejecting mechanism adjacent the path of the molds for forcing the roller therefrom.

1,457,291. CLOSURE FOR TUBES. CHARLES JOHN HAUK, Jr., Yonkers, N. Y. Filed Dec. 30, 1920. Serial No. 434,102. 1 Claim. (Cl. 221—60.)



In a tube closure, a tube, an elongated recess formed in the neck of said tube and of substantially circular cross sectional form, the top walls of said recess having a cut-out portion intermediate of its ends, a closure cap, and means in the form of a headed stop carried by said cap and having sliding engagement with the recess of the tube to retain the cap in position upon the tube, said headed stop being insertible into the elongated recess through the cut-away portion intermediate of its ends.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbey Effervescent Salt Company, Inc., New York, N. Y. Dry chemical mixture or effervescent salt. 167,597; May 1; Serial No. 169,695; published Feb. 6, 1923.

Abels, Sophie, Plainfield, N. J. Healing salve for all swelling and cancer. 167,596; May 1; Serial No. 169,696; published Jan. 9, 1923.

Aberdeen Creamery Company, Aberdeen, Miss. Butter. 167,384; May 1; Serial No. 164,793; published Jan. 30, 1923.

Abrams, Dr. Albert, San Francisco, Calif. Electrical medical instrument. 167,541; May 1; Serial No. 170,744; published Feb. 27, 1923.

Adams, Thomas H., doing business as Cushman Drug Co., Vincennes, Ind. Salve or skin balm which is an antiseptic dressing. 167,471; May 1; Serial No. 166,970; published Jan. 23, 1923.

Albrecht, Fred W., Grocery Company, The, Akron, Ohio. Crackers. 167,478; May 1; Serial No. 163,663; published Jan. 30, 1923.

American Cellulose & Chemical Manufacturing Company, Ltd., New York, N. Y. Composition used in the manufacture of moldings, castings, etc. 167,512; May 1; Serial No. 166,212; published Jan. 9, 1923.

American Excelsior Trading Company, New York, N. Y. Face powder. 167,342; May 1; Serial No. 163,024; published Dec. 26, 1922.

American Mineral Production Company, Chicago, Ill. Plastic calcined magnesite. 167,634; May 1; Serial No. 166,620; published Dec. 19, 1922.

American Radio & Electric Co., New York, N. Y. Radio sets and parts thereof. 167,581; May 1; Serial No. 169,572; published Jan. 23, 1923.

American Steel Foundries, Chicago, Ill. Draft arms. 167,430; May 1; Serial No. 164,216; published Jan. 23, 1923.

American Stove Company, St. Louis, Mo. Gas, coal, oil, and gasoline stoves. 167,529; May 1; Serial No. 166,163; published Jan. 2, 1923.

American Toilet Goods Company, Boston, Mass. Face, talcum, sachet, toilet powders, compacts, lip sticks, etc. 167,504; May 1; Serial No. 166,429; published Jan. 2, 1923.

Ames, F. A., Company, The, Owensboro, Ky. Buggies and carriages and bodies and tops of the same and automobile bodies and tops, etc. 167,488; May 1; Serial No. 153,426; published Jan. 23, 1923.

Anchor Stove & Range Co., New Albany, Ind. Stoves, ranges, and heaters. 167,493; May 1; Serial No. 150,425; published Jan. 9, 1923.

Andersen, Charles M., doing business as Andersen Specialty Co., Chicago, Ill. Liquid wood cleaners and the like for preparing wooden surfaces. 167,577; May 1; Serial No. 166,546; published Jan. 23, 1923.

Andersen Specialty Co. (See Andersen, Charles M.)

Army and Navy Register Publishing Co., assignor to Army and Navy Publishing Co., Inc., Washington, D. C. Newspapers. 22,896; renewed May 2, 1923.

Arobin Drug Company, Milwaukee, Wis. Preparation for neuralgia, neuritis, headaches, and colds. 167,612; May 1; Serial No. 152,668; published Jan. 2, 1923.

Artemesia. (See Lequy, Jules.)

Aspegren & Co., Inc., New York, N. Y. Corn oil for food purposes. 167,517; May 1; Serial No. 165,436; published Jan. 30, 1923.

Atlanta Milling Company, Atlanta, Ga. Wheat flour. 167,434; May 1; Serial No. 163,250; published Dec. 19, 1923.

Aunt Jemima Mills Company, St. Joseph, Mo. Prepared and semiprepared breakfast cereals. 167,387; May 1; Serial No. 164,624; published Jan. 30, 1923.

Aunt Jemima Mills Company, St. Joseph, Mo. Wheat flour. 167,394; May 1; Serial No. 164,090; published Dec. 19, 1922.

Ayer, Harriet Hubbard, New York, N. Y. Perfumes. 167,345; May 1; Serial No. 162,975; published Aug. 22, 1922.

B. B. Drug & Chemical Co. (See Jarvis, Henry C.)

Bachmahn Bros., Philadelphia, Pa. Sheeting made from nitrocellulose compounds. 167,571; May 1; Serial No. 166,931; published Jan. 9, 1923.

Baer, Howard W., Atlantic City, N. J. Antiseptic powder. 167,601; May 1; Serial No. 165,224; published Jan. 2, 1923.

Bailbe, George, doing business as The Vocalese Company, Fort Wayne, Ind. Aromatic medicinal liquid for relief of throat irritations, colds, hay fever, etc. 167,374; May 1; Serial No. 167,970; published Dec. 26, 1922.

Baker, Clarence I., Indianapolis, Ind. New and second-hand furniture. 167,610; May 1; Serial No. 154,426; published Oct. 10, 1922.

Baldwin, Joseph T., Baltimore, Md. Portable metallic garages. 167,511; May 1; Serial No. 166,341; published Jan. 30, 1923.

Baltic Chemical Co., The, Chicago, Ill. Liquid preparation for use on the skin to keep the mosquitoes away. 167,426; May 1; Serial No. 165,341; published Jan. 30, 1923.

Barclay, Douglas M., doing business as Standard Granite Company, Barre, Vt. Granite blocks. 167,622; May 1; Serial No. 167,761; published Dec. 19, 1922.

Barna, Nicholas, doing business as Cosmos Laboratory, Keyport, N. J. Antiperspiration compounds. 167,514; May 1; Serial No. 164,857; published Jan. 30, 1923.

Bassett, Rudolph A., Long Beach, Calif. Cleaning fluid for cleaning fabrics. 167,526; May 1; Serial No. 165,850; published Jan. 30, 1923.

Baumert, F. X., & Co. Inc., New York, N. Y. Cheese. 167,397–8; May 1. Serial Nos. 166,928–9; published Jan. 9, 1923.

Beck, William and Charles, Inc., Lawrence, Mass. Fabric hose. 167,444; May 1; Serial No. 160,740; published Jan. 23, 1923.

Bell Tire Company Incorporated, New York, N. Y. Pneumatic tires and inner tubes. 167,513; May 1; Serial No. 164,784; published Jan. 2, 1923.

Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat flour. 167,479; May 1; Serial No. 163,032; published Dec. 19, 1922.

Birchfield Boiler Company, Tacoma, Wash. Steam and hot-water heating boilers. 167,569; May 1; Serial No. 166,974; published Jan. 2, 1923.

Bishop, R. G., and Company. (See Bishop, Robert G.)

Bishop, Robert G., doing business as R. G. Bishop and Company, Dallas, Tex. Medicine for aiding digestion. 167,406; May 1; Serial No. 168,195; published Jan. 9, 1923.

Blackburn Products Co., The, Dayton, Ohio. Kidney and bladder medicine. 167,470; May 1; Serial No. 166,979; published Jan. 23, 1923.

Boro Chemical Co., Inc., Binghamton, N. Y. Germicide. 167,560; May 1; Serial No. 165,267; published Dec. 26, 1922.

Boston Harbor Oil Company, Boston, Mass. Lubricating oil. 167,568; May 1; Serial No. 167,379; published Dec. 19, 1922.

Bourjois, A., & Co. Inc., New York, N. Y. Toilet preparations. 167,378; May 1; Serial No. 167,766; published Dec. 26, 1923.

Bowden, J. B., & Company, New York, N. Y. Type of finger rings known as wedding rings. 167,354; May 1; Serial No. 144,273; published Jan. 30, 1923.

Bowker Insecticide Company, New York, N. Y. Insecticides. 167,421; May 1; Serial No. 169,749; published Jan. 9, 1923.

Brissette, Armand J., Webster, Mass. Medicinal preparation for coughs, colds, bronchitis, etc. 167,623; May 1; Serial No. 167,707; published Dec. 26, 1922.

Buffalo Specialty Co., Buffalo, N. Y. Drain solvents. 167,374; May 1; Serial No. 166,630; published Jan. 9, 1923.

Burnham, E., Inc., Chicago, Ill. Preparation for straightening hair. 167,579; May 1; Serial No. 166,496; published Jan. 2, 1923.

Buster Brown Soap Company, Indianapolis, Ind. Soap. 167,600; May 1; Serial No. 169,574; published Jan. 2, 1923.

Butler Laboratories, Inc., New York, N. Y. Iron solution for intravenous and intramuscular use. 167,500; May 1; Serial No. 166,521; published Jan. 2, 1923.

Cabco Iron Works, Inc., Gowanda, N. Y. Gas steam radiators. 167,412; May 1; Serial No. 168,447; published Jan. 23, 1923.

Carey Salt Company, The, Hutchinson, Kans. Medium salt for meat curing and general use. 167,399; May 1; Serial No. 166,653; published Jan. 2, 1923.

Central Radiator Company, New York, N. Y. Hot-water heater. 167,578; May 1; Serial No. 166,523; published Jan. 2, 1923.

Cerecedo Hnos. & Co. Sucrs., San Juan, P. R. Soap. 167,586; May 1; Serial No. 170,122; published Jan. 2. 1923.

Chemische Fabrik Marienfelde G. m. b. H., Berlin-Marienfelde, Germany. Pulverulent sulphur compound for treating sores, cuts, etc. 167,437; May 1; Serial No. 163,737; published Jan. 30, 1923.

Chemitex Products Company, The, Akron, Ohio. Chemical cleaner for shade cloths. 167,448; May 1; Serial No. 163,779; published Jan. 23, 1923.

Chesney, Ernest R., doing business as Fly-Cide Company, Kansas City, Mo. Insecticides. 167,466; May 1; Serial No. 167,118; published Jan. 23, 1923.

Chinosol Company, New York, N. Y. Antiseptic compound. 167,483; May 1; Serial No. 160,994; published Jan. 23, 1923.

Clark, J. C., Omaha, Nebr. Preparations for pyorrhea. 167,633; May 1; Serial No. 166,648; published Dec. 26, 1922.

Colgate & Company, Jersey City, N. J. Soap. 167,542; May 1. Serial No. 170,719; published Jan. 23, 1923.

Colonna, D., & Son, Union Hill, N. J. Grated cheese. 167,473; May 1. Serial No. 166,876; published Jan. 9, 1923.

Colorado Milling & Elevator Company, The, Denver, also doing business as The Eaton Flour Mills, Eaton, Colo., and as Pacific Seed House, Salt Lake City, Utah. Grass, field, and garden seeds. 167,401; May 1; Serial No. 166,288; published Jan. 23, 1923.

Commercial Solvents Corporation, New York, N. Y. Dairy and stock feed. 167,393; May 1; Serial No. 164,156; published Dec. 19, 1922.

Compressed Carbonic Company, Baltimore, Md. Carbonic-acid gas. 167,602; May 1; Serial No. 165,063; published Dec. 26, 1922.

Condit, Park N., Boston, Mass. Ammoniacal silver nitrate solution, formalin, silver nitrate stain remover, etc. 167,462; May 1; Serial No. 167,225; published Jan. 9, 1923.

Conrad, Henry W., Momence, Ill. Bread, rolls, and buns. 167,462; May 1; Serial No. 167,225; published Jan. 9, 1923.

Conroy, Harry E., doing business as Edco Manufacturing Co., Wilkes-Barre, Pa. Repair patches for pneumatic tubes. 167,445; May 1; Serial No. 160,582; published Jan. 2, 1923.

Consolidated Iron-Steel Manufacturing Company, The, Cleveland, Ohio. Oil-lamp stoves. 167,442; May 1; Serial No. 161,235; published Jan. 2, 1923.

Cosmos Laboratory. (See Barna, Nicholas.)

Crell, Albert P., Grand Rapids, Mich. Bumpers for automobiles. 167,497; May 1; Serial No. 166,434; published Jan. 9, 1923.

Creolin Co., The, Rahway, N. J. Chemical substance used as a wood preserver. 167,589; May 1; Serial No. 169,847; published Jan. 9, 1923.

Crescent Refractories Company, Curwensville, Pa. Fire bricks, and tile except metal and porcelain. 167,469; May 1; Serial No. 166,984; published Dec. 19, 1922.

Cross, Henry H., Company, Chicago, Ill. Gasoline, naphtha, kerosene, fuel oils, etc. 167,531; May 1; Serial No. 174,294; published Feb. 27, 1923.

Crown Products, Inc., New York, N. Y. Nutritive confection in cake form. 167,477; May 1; Serial No. 163,735; published Dec. 19, 1922.

Cunningham, Charles A., doing business as Abe Lincoln Post Card Co., Washington, D. C. Picture post cards. 167,424; May 1; Serial No. 170,629; published Jan. 2, 1923.

Curran, J. E., Corporation, New York, N. Y. Dandruff remedy, toilet and skin preparation. 167,414; May 1; Serial No. 168,515; published Jan. 23, 1923.

Cushman Drug Co. (See Adams, Thomas H.)

Cutler-Magner Co., Duluth, Minn. Lime, plaster, cement, and mixtures of cement and sand. 167,461; May 1; Serial No. 167,295; published Dec. 19, 1922.

D. & N. Drug Co., Fort Wayne, Ind. Lotion for chapped hands. 167,409; May 1; Serial No. 168,356; published Jan. 9, 1923.

Davis, Oscar, and C. R. Ridgway, Tonganoxie, Kans. Pastry. 167,435; May 1; Serial No. 163,216; published Jan. 30, 1923.

Des Moines Bakery, Co., Des Moines, Iowa. Bread. 167,389; May 1; Serial No. 164,536; published Dec. 19, 1922.

Detroit White Lead Works, Detroit, Mich. Paints, paint enamels, japans, etc. 167,533; May 1; Serial No. 171,985; published Feb. 13, 1923.

Diamond Match Company, The, Chicago, Ill. Matches. 167,347–8; May 1; Serial No. 158,820–1; published Apr. 25, 1922.

Doyle, Henry J., East Orange, N. J. Sun shields for automobiles. 167,608; May 1; Serial No. 157,557; published Oct. 24, 1922.

Du Pont, E. I., de Nemours & Company. (See Harrison Bros. & Co., assignor.)

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. 167,613; May 1; Serial No. 149,954; published Jan. 2, 1923.

Eaton Flour Mills. (See Colorado Milling & Elevator Company.)

Economy Engineering Company, Chicago, Ill. Racks for supporting barrels and the like. 167,534; May 1; Serial No. 172,038; published Jan. 30, 1923.

Edco Manufacturing Co. (See Conroy, Harry E.)

Electronic Remedy Co., Chicago, Ill. Laxative herb teas, medicines for disorders of the stomach, liver, kidneys, and intestines. 167,555; May 1; Serial No. 165,538; published Jan. 2, 1923.

Elektrizitatswerk Lonza, Gampel and Basel, Switzerland. Agglomeratis of solid aldehyde, methyl alcohol, and ethyl alcohol for heating and lighting purposes. 167,631; May 1; Serial No. 166,718; published Jan. 2, 1923.

Eliaves, Alexander P., doing business as A. Louis Manufacturing Co., Washington, D. C. Hair tonic. 167,570; May 1; Serial No. 166,940; published Jan. 2, 1923.

Elk Pharmacy, The. (See Lawler, William A.)

Elvin Company, The. (See Meyer, Peter.)

Enzler, Emil, New York, N. Y. Perforated patterns used for stenciling designs to be embroidered. 167,540; May 1; Serial No. 170,815; published Jan. 30, 1923.

Erikson, Iver J., Worcester, Mass. Asphalt composition roofing in sheets and rolls. 167,557; May 1; Serial No. 167,939; published Dec. 19, 1922.

Eustis, J. P., Manufacturing Company, Cambridge, Mass. Medicine cabinets. 167,468; May 1; Serial No. 166,988; published Jan. 2, 1923.

Exolon Company, The, Boston, Mass. Fused quartz. 167,611; May 1; Serial No. 153,758; published Dec. 19, 1922.

Fabyan & Company, Inc., New York, N. Y. Epsom salts, bicarbonate of soda, boric acid, borax, etc., 167,496; May 1; Serial No. 166,363; published Jan. 9, 1923.

Fair, The, Chicago, Ill. Children's sleds. 167,545; May 1; Serial No. 170,573; published Jan. 30, 1923.

Farny, George W., doing business as Farny Trufood Company, Morris Plains, N. J. Breakfast cereal. 167,474; May 1; Serial No. 166,739; published Jan. 9, 1923.

Farny Trufood Company. (See Farny, George W.)

Fawcett, Adam L., doing business as Fawcett Chemical Company, Los Angeles, Calif. Automobile cleaning preparation. 167,561; May 1; Serial No. 166,445; published Dec. 26, 1922.

Fayssoux-Brown Remedy Company, Hollister, N. C. Preparation for the treatment of diseases of the blood, stomach, kidneys, and bladder. 167,482; May 1; Serial No. 161,682; published Jan. 2, 1923.

Featheredge Rubber Company, Inc., Chicago, Ill. Rubber sponges and rubber sponge for manufacturing purposes. 167,432; May 1; Serial No. 163,332; published Jan. 30, 1923.

Federal Asbestos Co., The, Milwaukee, Wis. Prepared roofing. 167,614; May 1; Serial No. 148,991; published Jan. 2, 1923.

Federal Mill & Elevator Co., Inc., Lockport, N. Y. Self-rising flour. 167,382; May 1; Serial No. 166,056; published Jan. 9, 1923.

Felt Paper Company. (See Moore, John W.)

Femiglorin Laboratories. (See Smith, William R.)

Fingl, Anton W., doing business as Goos-O-Rubb Co., Chicago, Ill. Preparation for external application for headache, neuralgia, colds, etc. 167,502; May 1; Serial No. 166,504; published Jan. 2, 1923.

Flako Products Corporation, New Brunswick, N. J. Prepared pastry flour. 167,558; May 1; Serial No. 165,440; published Dec. 12, 1922.

Fly-Clde Company. (See Chesney, Ernest R.)

Forgey, Charles L., doing business as Witcherle Laboratory, Detroit, Mich. Face rouge. 167,419; May 1; Serial No. 169,631; published Jan. 9, 1923.

Francis Manufacturing Co., Niagara Falls, N. Y. Safety pins, toilet pins, snap fasteners, and hooks and eyes. 167,573; May 1; Serial No. 166,674; published Dec. 26, 1922.

Fulcihum & Company, Los Angeles, Calif. Hair nets. 167,456; May 1; Serial No. 168,029; published Feb. 13, 1923.

Gabbola, Raffaele, New York, N. Y. Salve for burns, scalds, and sunburn. 167,559; May 1; Serial No. 165,284; published Jan. 2, 1923.

Garrity, L. M., & Co., Inc., Boston, Mass. Hair wavers, crimpers, curlers, binders, puffs, etc. 167,410; May 1; Serial No. 168,361; published Jan. 2, 1923.

Gartcraig Fire Clay Company, Limited, Glasgow, Scotland. Fire-clay goods. 167,576; May 1; Serial No. 166,550; published Jan. 9, 1923.

General Engineering & Construction Company, and also doing business as Rockford Manufacturing Co., Rockford, Ill. Electrically-operated apparatus for heating and blowing air for drying purposes. 167,481; May 1; Serial No. 162,675; published Jan. 9, 1923.

Giant Concrete Pile Co., Inc., New York, N. Y. Concrete piles, casting and driving forms or channels for concrete piles by means of which piles are driven into the ground. 167,498; May 1; Serial No. 134,563; published Dec. 19, 1922.

Giessner, Inez C., doing business as, Largal Company, Findlay, Ohio. Preparation for the relief of colds. 167,371; May 1; Serial No. 168,764; published Jan. 2, 1923.

Goos-O-Rubb Co. (See Fingl, Anton W.)

Gordone, Robbie, Chicago, Ill. Hair wavers. 167,632; May 1; Serial No. 166,681; published Nov. 14, 1922.

Grady Mfg. Co., Long Island City, N. Y. Metal cleaner and polish. 167,544; May 1; Serial No. 170,583; published Jan. 2, 1923.

Gramana Dairy Co. (See Richards, Anna M.)

Great West Mill & Elevator Co., Amarillo, Tex. Mixed feed manufactured from Kafir corn, milo maize, and wheat bran. 167,552; May 1; Serial No. 165,680; published Dec. 12, 1922.

Greenan, Michael, Pawtucket, R. I. Light supports. 167,454; May 1; Serial No. 161,879; published Jan. 30, 1923.

Guerre, Louis F., & Co. (See Guerre, Louis F.)

Guerre, Louis F., doing business as Louis F. Guerre & Co., New Orleans, La. Roofing cement. 167,585; May 1; Serial No. 170,136; published Jan. 9, 1923.

Gutterman-Strauss Company, Boston, Mass. Sole leather, whole and cut stock. 167,639; May 1; Serial No. 167,980; published Dec. 19, 1922.

H. F. Chemical Company, The, Washington, D. C. Medicinal preparation for hay fever, rose colds, and catarrhal colds. 167,554; May 1; Serial No. 165,590; published Dec. 26, 1922.

H. K. H. Silk Company, Watertown, Conn. Silk and cotton threads, twists, and for artificial embroidery flosses. 167,447; May 1; Serial No. 164,541; published Jan. 19, 1923.

H. K. H. Silk Company, The, Watertown, Conn., and New York, N. Y. Silk and cotton threads, twists, and artificial embroidery flosses. 167,436; May 1; Serial No. 164,540; published Jan. 9, 1923.

H-O Cereal Company, Inc., The, Buffalo, N. Y. Bird and poultry feeds. 167,385; May 1; Serial No. 164,643; published Jan. 30, 1923.

Hair-O Laboratories Co. (See Spake, John P.)

Halstead Specialties Company, San Francisco, Calif. Rust solvent. 167,372; May 1; Serial No. 168,140; published Jan. 23, 1923.

Haroma Mfg. Co. (See Harrah, Lewis O.)

Harrah, Lewis O., doing business as Haroma Mfg. Co., Terre Haute, Ind. Ointment for rheumatism, influenza, spasmodic cramp, etc. 167,386; May 1; Serial No. 164,640; published Jan. 2, 1923.

Harral Soap Co. Inc., Brooklyn, N. Y. Soaps. 167,549; May 1; Serial No. 170,200; published Jan. 2, 1923.

Harrison Bros. & Co., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Paints, stains, varnishes, and similar articles. 22,656; renewed Mar. 14, 1923.

Harrison, Hubert M., Wichita Falls, Tex. Monthly publication. 167,543; May 1; Serial No. 170,684; published Jan. 30, 1923.

Haynes, Wm. S., Co., Boston, Mass. Flutes and piccolos. 167,360; May 1; Serial No. 171,216; published Jan. 30, 1923.

Herman Krebs Pharmacy Co., The, doing business as Herman Krebs Products Co., Cleveland, Ohio. Goiter balm. 167,484; May 1; Serial No. 159,966; published Jan. 23, 1923.

Herman Krebs Products Co. (See Herman Krebs Pharmacy Co.)

Hightstown Hardware Company, Hightstown, N. J. Insecticides. 167,635; May 1; Serial No. 166,596; published Jan. 2, 1923.

Hobbs, Edward M., Berea, Ohio. Live poultry. 167,388; May 1; Serial No. 164,502; published Jan. 30, 1923.

Hobdell, Way and Company Limited, London, England. Crude asbestos. 167,527; May 1; Serial No. 165,995; published Jan. 9, 1923.

Hodes-Zink Mfg. Co., Fremont, Ohio. All fabric accessories made for automobiles. 167,609; May 1; Serial No. 157,221; published Dec. 19, 1922.

Hoffman, Joseph, Philadelphia, Pa. Automobile steering controllers adapted to aid in stabilizing the steering control of automobiles. 167,607; May 1; Serial No. 157,995; published Dec. 26, 1922.

Holden, George, Quenemo, Kans. Ointment for croup, colds, pneumonia, bronchitis, etc. 167,621; May 1; Serial No. 167,721; published Jan. 2, 1923.

Home Bakery. (See Huck, George W.)

Honoroff & Wittmer Co., Uniontown, Pa. Preparation for dysentery, diarrhea, cholera morbus, summer complaints, etc. 167,349; May 1; Serial No. 153,140; published Dec. 26, 1922.

Huck, George W., doing business as Home Bakery, Crystal City, Mo. Bread. 167,460; May 1; Serial No. 167,392; published Jan. 9, 1923.

Hughbanks, Edgar A., doing business as The Radiol Company, Milwaukee, Wis. Hair tonics. 167,375; May 1; Serial No. 167,876; published Dec. 26, 1922.

Hunt, William B., M. D., New York, N. Y. Oxygenated tablet used in the treatment of pulmonary diseases. 167,494; May 1; Serial No. 166,230; published Jan. 16, 1923.

Huntingdon Rubber Mills, Portland, Oreg. Buttons not of precious metal. 167,536; May 1; Serial No. 171,920; published Jan. 30, 1923.

Hutchison, Orson R., Arlington, Iowa. White Wyandotte chickens and eggs for hatching purposes. 167,557. May 1; Serial No. 165,443; published Dec. 12, 1922.

Hygeia Nursing Bottle Co. Inc., The, Buffalo, N. Y. Healing ointment. 167,346; May 1; Serial No. 160,808; published Jan. 23, 1923.

International Union of Timber Workers, Seattle, Wash. Printed booklets and pamphlets published monthly. 167,619; May 1; Serial No. 126,802; published Dec. 26, 1922.

J. P. Drug Co. (See Johnston, Eugene B.)

Jack, Geo., Buffalo, N. Y. Antiseptic healing ointment. 167,580; May 1; Serial No. 166,455; published Jan. 30, 1923.

Jackson Medicine Co., The, Zanesville, Ohio. Digestive and liver powder, a preparation for relief of stomach ills. 167,359; May 1; Serial No. 171,924; published Feb. 13, 1923.

Jarvis, Henry C., doing business as B. B. Drug & Chemical Co. Brooklyn, N. Y. Throat tablets. 167,465; May 1; Serial No. 167,132; published Jan. 9, 1923.

Johnson, I. M., New York, N. Y. Series of cartoons. 167,423; May 1; Serial No. 170,295; published Jan. 2, 1923.

Johnston, Eugene B., doing business as J. P. Drug Co., Doniphan, Mo. Infants' colic preparation. 167,392; May 1; Serial No. 164,168; published Jan. 2, 1923.

Justrite Manufacturing Company, Chicago, Ill. Miners' acetylene lamps. 167,518; May 1; Serial No. 165,629; published Jan. 2, 1923.

Karton, Harry, doing business as Purity Chemical Co., Philadelphia, Pa. Face powder, rouge, toilet creams, toilet powder, perfumes, and sachet powder. 167,411; May 1; Serial No. 168,417; published Jan. 23, 1923.

Kekas, Panagiota, New York, N. Y. Eyedrops. 167,636; May 1; Serial No. 166,600; published Dec. 26, 1922.

Kett, R. G., Co. (See Kett, Rudolph G.)

Kett, Rudolph G., doing business as R. G. Kett Co., Milwaukee, Wis. Preparation for the treatment of goiter. 167,453; May 1; Serial No. 162,116; published Jan. 9, 1923.

Kipuroff, Nakey P., Columbus, Ohio. Hair tonic. 167,377; May 1; Serial No. 167,820; published Dec. 26, 1922.

Klerol Laboratories, Inc., Buffalo, N. Y. Ointment used externally for treating eczema, hemorrhoids, skin eruptions, etc. 167,420; May 1; Serial No. 170,021; published Jan. 9, 1923.

Klipstein, E. C., & Sons Company, New York, N. Y. Dyestuffs, colors, and pigments. 167,624; May 1; Serial No. 167,679; published Dec. 26, 1922.

Knowlton, E. W., doing business as Knowlton Laboratories, Pasadena, Calif. Preparation for use in internal inflammation. 167,365; May 1; Serial No. 160,977; published Jan. 23, 1923.

Knowlton Laboratories. (See Knowlton, E. W.)

Krank, A. J., Mfg. Co., St. Paul, Minn. Face lotion. 167,364; May 1; Serial No. 170,022; published Jan. 23, 1923.

Laersen Products Co., New York, N. Y. Cheese. 167,390; May 1; Serial No. 164,325; published Dec. 19, 1922.

Lanzet, Annette, doing business as Lanzette Laboratories, San Francisco, Calif. Face cleanser consisting of a specially-prepared tissue paper, face cream, talcum powder, etc. 167,464; May 1; Serial No. 167,135; published Jan. 23, 1923.

Lanzette Laboratories. (See Lanzet, Annette.)

Largal Company. (See Giessner, Inez C.)

Lawler, William A., doing business as The Elk Pharmacy, Lexington, Tenn. Flesh builder and iron tonic. 167,501; May 1; Serial No. 166,508; published Dec. 26, 1922.

Lee, Ray O., Kansas City, Mo. Dentifrice. 167,582; May 1; Serial No. 170,202; published Jan. 30, 1923.

Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Preparations for the treatment of the blood, chronic rheumatism, pimples, boils, etc. 167,404; May 1; Serial No. 165,591; published Dec. 26, 1922.

Lequy, Jules, doing business as Artemesia, Montreal, Quebec, Canada. Hair tonic. 167,351; May 1; Serial No. 150,694; published Jan. 23, 1923.

Le Roy Medicine Company. (See Romanik, Louis.)

Leah, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. 167,341; May 1; Serial No. 163,093; published July 25, 1922.

Levenson and Zenitz, Baltimore, Md. Folding beds, davenports, and couches. 167,491; May 1; Serial No. 143,281; published Dec. 26, 1922.

Lever Brothers Company, Cambridge, Mass. Soap. 167,446; May 1; Serial No. 164,548; published Jan. 2, 1923.

Lincoln, Abe, Post Card Co. (See Cunningham, Charles A.)

Locke Insulator Corporation, Baltimore, Md. Insulators for high-tension insulation. 167,606; May 1; Serial No. 163,526; published Feb. 20, 1923.

Longren Aircraft Corporation, The, Topeka, Kans. Airplanes. 167,369; May 1; Serial No. 168,976; published Jan. 23, 1923.

Louis, A., Manufacturing Co. (See Eliaves, Alexander P.)

Luehrmann Hay & Grain Co., St. Louis, Mo. Wheat flour. 167,340; May 1; Serial No. 163,097; published Dec. 19, 1922.

Magee Furnace Company, Boston, Mass. Combination stoves or ranges heated by burning of combustible fuel and electricity. 167,459; May 1; Serial No. 167,481; published Jan. 23, 1923.

Majestic Milling Co., Aurora, Mo. Self-rising wheat flour. 167,339; May 1; Serial No. 163,103; published Dec. 19, 1922.

Mallowitz, Isaac, Trenton, N. J. Butter. 167,509; May 1; Serial No. 165,805; published Dec. 12, 1922.

Martin, Anita, New York, N. Y. Dress shields. 167,495; May 1; Serial No. 166,240; published Jan. 2, 1923.

Martinka, Joseph J., Newark, N. J. Preparation for pains, burns, bruises, and cancer. 167,637; May 1; Serial No. 166,603; published Jan. 2, 1923.

Matson, N. A., Co., Minneapolis, Minn. Bread and toast. 167,510; May 1; Serial No. 165,702; published Dec. 12, 1922.

Merck & Co., New York, N. Y. Preparation used as an antispasmodic. 167,625; May 1; Serial No. 167,684; published Dec. 26, 1922.

Merck & Co., New York, N. Y. Preparations used as hypnotics. 167,566; May 1; Serial No. 167,685; published Jan. 9, 1923.

Meyer, Ernest R., Los Angeles, Calif. Hand cream. 167,433; May 1; Serial No. 163,282; published Dec. 26, 1922.

Meyer, Peter, doing business as The Elvin Company, New York, N. Y. Toilet preparations—viz, compact face powder and compact rouge. 167,463; May 1; Serial No. 167,186; published Jan. 9, 1923.
Midland Flour Milling Co., The, Kansas City, Mo. Bread. 167,413; May 1; Serial No. 168,480; published Jan. 16, 1923.
Milne, William M., San Francisco, Calif. Rattan products. 167,616; May 1; Serial No. 146,325; published Dec. 19, 1922.
Model Barber Supply Co., Peoria, Ill. Massage and face creams, shampoos, toilet waters, talcum powders. 167,439; May 1; Serial No. 161,400; published Jan. 30, 1923.
Moore, John W., doing business as Felt Paper Company, Rowlandsville, Md. Asphalt roofing sold in rolls. 167,546–7; May 1; Serial Nos. 170,397–8; published Jan. 9, 1923.
Morgan Company, Oshkosh, Wis. Doors. 167,516; May 1; Serial No. 165,404; published Jan. 9, 1923.
Mov-Ezy Theatre Seating Co., Inc., Wilmington, Del., and New York, N. Y. Stationary swivel chairs. 167,449; May 1; Serial No. 163,587; published Jan. 23, 1923.
Mutual Pharmacal Company, Boston, Mass. Chocolate laxative tablets. 167,486; May 1; Serial No. 158,053; published June 6, 1922.
N. M. P. Laboratories. (See Strahmann, Henry C.)
National Aniline & Chemical Company, Incorporated. New York, N. Y. Coal-tar chemicals or intermediates, rubber accelerators or catalyzers, etc. 167,376; May 1; Serial No. 167,824; published Dec. 26, 1922.
Nature Products Company, Tonopah, Nev. Tooth powder and paste. 167,362; May 1; Serial No. 170,256; published Jan. 30, 1923.
New England Fibre Mills, Derry, N. H. Mattresses. 167,532; May 1; Serial No. 172,287; published Jan. 30, 1923.
New England Fibre Mills, Derry, N. H. Mattresses. 167,533; May 1; Serial No. 172,285; published Jan. 30, 1923.
Newton, Dr. Ben F., Albany, Ala. Relief for burns, cuts, skin diseases, catarrh, etc. 167,556; May 1; Serial No. 165,457; published Dec. 26, 1922.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Tallow. 167,440; May 1; Serial No. 161,372; published Jan. 23, 1923.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Frozen and chilled mutton, lamb, and beef, and tallow. 167,441; May 1; Serial No. 161,371; published Jan. 30, 1923.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Oils for preserving leather and neat's-foot oil. 167,455; May 1; Serial No. 161,381; published Jan. 2, 1923.
Nix-Lix Co., The. (See Quast, Otto K.)
Northwestern Consolidated Milling Company, The, Minneapolis, Minn. Wheat flour. 167,627; May 1; Serial No. 167,483; published Dec. 19, 1922.
Norton, E. B. Remedy Company. (See Norton, Eva B.)
Norton, Eva B., doing business as E. B. Norton Remedy Company. Medical vaginal suppository. 167,350; May 1; Serial No. 152,180; published Dec. 26, 1922.
Noyes Comb Company, Binghamton, N. Y. Pocket and fine combs, Barbers' and men's and women's dressing combs. 167,548; May 1; Serial No. 170,306; published Jan. 3, 1923.
Nulyne Laboratories, Jackson, Mich. Tooth paste. 167,358; May 1; Serial No. 124,864; published Apr. 13, 1920.
Ogilvie, Jessica, doing business as Ogilvie Sisters, New York, N. Y. Liquid powder adapted for toilet use. 167,603; May 1; Serial No. 165,029; published Dec. 26, 1922.
Ogilvie Sisters. (See Ogilvie, Jessica.)
Olmsted, Leon A., doing business as United States Athletic Company, Chicago, Ill. Bicycles. 167,361; May 1; Serial No. 170,664; published Jan. 23, 1923.
Opax Products Company, Elyria, Ohio. Washing powder. 167,438; May 1; Serial No. 162,847; published Jan. 2, 1923.
Opazel Laboratories, Inc., New York, N. Y. Medicated cream for the treatment of wrinkles, acne, eczema, and all forms of skin eruptions. 167,604; May 1; Serial No. 164,942; published Dec. 26, 1922.
Pacific Clay Products Co., Los Angeles, Calif. Pressed, glazed, enameled, ruffled, and fire brick, fire clay, etc. 167,519; May 1; Serial No. 165,714; published Jan. 30, 1923.
Pacific Clay Products Co., Los Angeles, Calif. Vitrified salt-glazed sewer pipe, tile water pipe, tile conduit pipe, etc. 167,520; May 1; Serial No. 165,715; published Jan. 30, 1923.
Pacific Seed House. (See Colorado Milling & Elevator Company.)
Paris & Co., New York, N. Y. Rice and coffee. 167,396; May 1; Serial No. 163,894; published Dec. 19, 1922.
Paulson, Arthur, New York, N. Y. Steel filing cabinet. 167,476; May 1; Serial No. 163,765; published Jan. 2, 1923.
Parfumerie Lubin. (See Prot, Paul, & Cie.)
Periodical Digest Corporation, The, New York, N. Y. Magazine or periodical issued fortnightly. 167,487; May 1; Serial No. 155,318; published Dec. 5, 1922.
Pfeffer Milling Company, Lebanon, Ill. Wheat flour. 167,427; May 1; Serial No. 165,032; published Jan. 2, 1923.
Philippe, Louis, Inc., New York, N. Y. Tooth paste and tooth powder. 167,584; May 1; Serial No. 170,153; published Jan. 30, 1923.
Pinkham Vulcan Compound Co. Inc., Brooklyn, N. Y. Chemical compound for normalizing steel, etc. 167,524; May 1; Serial No. 165,811; published Jan. 9, 1923.
Pioneer Creamery Co., Galesburg, Ill. Butter, eggs, both fresh and storage, and raw cream. 167,357; May 1; Serial No. 143,783; published Dec. 19, 1922.
Pirazzi, Gustav, & Comp., Offenbach-on-the-Main, Germany. Violins and similar instruments, guitars, mandolins, harps, and strings for said instruments. 167,429; May 1; Serial No. 164,825; published Jan. 30, 1923.
Polyphonwerke Aktiengesellschaft, Berlin, Germany. Phonographic note disks, note cylinders, sound plates or records, etc. 167,353; May 1; Serial No. 145,585; published Jan. 30, 1923.
Precision Metal Workers, Chicago, Ill. Hand soap powder, hand soap paste, and carbolated soap paste. 167,567; May 1; Serial No. 167,648; published Dec. 26, 1922.
Press-Union Publishing Co., Atlantic City, N. J. Title of its daily publication. 167,593–4; May 1; Serial Nos. 169,778–9; published Jan. 30, 1923.
Proctor, Benjamin, jr., Boston, Mass. Picture frames. 167,538; May 1; Serial No. 171,707; published Jan. 30, 1923.
Prot, Paul, & Cie., doing business as Parfumerie Lubin, Paris, France. Perfumes, toilet waters, face and talcum powders, face lotion and cream, and rouge. 167,363; May 1; Serial No. 170,087; published Jan. 30, 1923.
Prot, Paul, & Cie., doing business as Parfumerie Lubin, Paris, France. Perfumes, toilet waters, face powder, face lotion, face cream, etc. 167,587–8; May 1; Serial Nos. 170,084–5; published Jan. 30, 1923.
Purity Chemical Co. (See Karton, Harry.)
Quast, Otto K., doing business as The Nix-Lix Co., Spokane, Wash. Hair tonic and dandruff remedy. 167,563; May 1; Serial No. 167,783; published Jan. 30, 1923.
Radio Corporation of America, New York, N. Y. Radio receiving, detecting, and transmitting sets and parts thereof, etc. 167,591; May 1; Serial No. 169,824; published Jan. 30, 1923.
Radiol Company, The. (See Hughbanks, Edgar A.)
Ralston Purina Company, St. Louis, Mo. Dairy feed. 167,415; May 1; Serial No. 168,787; published Jan. 16, 1923.
Reading Hardware Company, Reading, Pa. Builders' hardware, including locks and latches. 23,325; renewed July 4, 1923.
Reichman & Faust, New York, N. Y. Hair rolls. 167,443; May 1; Serial No. 161,065; published Nov. 7, 1922.
Richards, Anna M., doing business as Gramana Dairy Co., Phillipsburg, N. J. Milk and cream. 167,472; May 1; Serial No. 166,957; published Dec. 12, 1922.
Ridgway, Charles R. (See Davis, O., and Ridgway.)
Rockaway Exterminating Company, Rockaway Beach, N. Y. Chemical compounds to be used as insect exterminators. 167,380; May 1; Serial No. 167,584; published Jan. 9, 1923.
Rockford Manufacturing Co. (See General Engineering & Construction Company.)
Roethlisberger & Co., Inc., New York, N. Y. Cheese. 167,391; May 1; Serial No. 164,198; published Jan. 30, 1923.
Rogers, Charles P., & Co., Inc., New York, N. Y. Household and office furniture. 167,480; May 1; Serial No. 162,852; published Dec. 26, 1922.
Roman, Andrew M., Chicago, Ill. Chemical preparations for use in making blood tests. 167,370; May 1; Serial No. 168,803; published Feb. 13, 1923.
Romanik, Louis, doing business as The Le Roy Medicine Company, Milwaukee, Wis. Laxative, charcoal, and other tablets, liniments, etc. 167,353; May 1; Serial No. 165,637; published Dec. 26, 1922.
Rorer, William H., Philadelphia, Pa. Chlor-methyl liniment for sprains, bruises, and fractures, pepsin, etc. 167,403; May 1; Serial No. 165,639; published Jan. 2, 1923.
Ryder, C. M., Steubenville, Ohio. Foodstuffs produced on the farm and dairy. 167,344; May 1; Serial No. 163,004; published Dec. 19, 1922.
Sanderson, Chester T., Co., Inc., The, New York, N. Y. Wood panel board. 167,590; May 1; Serial No. 169,828; published Jan. 9, 1923.
Sanozone Chemical Co., Philadelphia, Pa. Deodorants, disinfectants, insecticides, roach powder, pipe cleaner, and scale solvent. 167,490; May 1; Serial No. 140,807; published Jan. 23, 1923.
Scarab Oil Burning Company, Limited, London, England. Burners for liquid fuel. 167,530; May 1; Serial No. 166,019; published Jan. 2, 1923.
Scheele, Conrad L., New York, N. Y. Liniment for rheumatism, lumbago, gout, and colds. 167,640; May 1; Serial No. 167,946; published Jan. 2, 1923.
Schlosinger, Noah, doing business as Noah Schlosinger Co., Streeter, N. Dak. Liniment for the relief of rheumatism. 167,629; May 1; Serial No. 166,853; published Jan. 2, 1923.

Schlosinger, Noah, doing business as Noah Schlosinger Co., Streeter, N. Dak. Remedy for corns and bunions. 167,630; May 1; Serial No. 166,854; published Jan. 2, 1923.
Schlosinger, Noah, Co. (See Schlosinger, Noah.)
Schmidt, A. O., doing business as A. O. Schmidt Co., San Francisco, Calif. Antiseptic foot powder for foot troubles and for the bath. 167,368; May 1; Serial No. 169,784; published Jan. 23, 1923.
Schmidt, A. O., Co. (See Schmidt, A. O.)
Schofield's, J. S., Sons Co., Macon, Ga. Steam boilers. 167,572; May 1; Serial No. 166,719; published Jan. 30, 1923.
Scholl Manufacturing Company, The, Chicago, Ill. Adhesive medicated shields or pads for corns, calluses, and bunions. 167,379; May 1; Serial No. 167,739; published Dec. 26, 1922.
Schroeder, John, Lumber Co., Milwaukee, Wis. Shingles. 167,467; May 1; Serial No. 167,029; published Dec. 19, 1922.
Sears, Roebuck and Co., Chicago, Ill. Phonographs, phonograph records and needles, disc-record albums. 167,620; May 1; Serial No. 125,254; published Jan. 10, 1922.
Security Cement & Lime Co., Hagerstown, Md. Portland cement. 167,522; May 1; Serial No. 165,761; published Jan. 9, 1923.
Seydel Chemical Company, Nitro, W. Va., and Jersey City, N. J. Local anæsthetic. 167,395; May 1; Serial No. 164,087; published Jan. 23, 1923.
Shannon, Edward J., Company, The, Cincinnati, Ohio. Shellac. 167,617; May 1; Serial No. 142,038; published Dec. 19, 1922.
Simonin, Isaac M., doing business as C. F. Simonin's Sons, Philadelphia, Pa. Edible coconut-oil products. 167,343; May 1; Serial No. 163,009; published Jan. 30, 1923.
Simonin's, C. F., Sons. (See Simonin, Isaac M.)
Smidt, Edvard, Nybollegnard, near Espe, Denmark. Export cream, condensed cream and cheese. 167,405; May 1; Serial No. 165,464; published Jan. 30, 1923.
Smith, Kline & French Co., Philadelphia, Pa. Talcum powder. 167,499; May 1; Serial No. 136,571; published Jan. 23, 1923.
Smith Mfg. Co., Utica, N. Y. Insecticides. 167,592; May 1; Serial No. 169,786; published Jan. 9, 1923.
Smith, William R., doing business as Femigioria Laboratories, New York, N. Y. Nail creams, rouges, powders, and polishes. 167,428; May 1; Serial No. 164,969; published Oct. 10, 1922.
Sonnenschein, J., Hop Company, Inc., New York, N. Y. Hops. 167,400; May 1; Serial No. 166,514; published Dec. 19, 1922.
Southern Coal & Coke Co., The, Cincinnati, Ohio. Coal. 167,599; May 1; Serial No. 169,653–4; published Jan. 9, 1923.
Southworth, George J., Medicine Lodge, Kans. Skin cream. 167,503; May 1; Serial No. 166,480; published Dec. 26, 1922.
Spake, John P., doing business as The Hair-O Laboratories Co., Atlanta, Ga. Preparation for treating scalp diseases and stimulating the growth of hair. 167,458; May 1; Serial No. 167,585; published Jan. 9, 1923.
Spinner, Sebastian, New York, N. Y. Medicinal tonic for stomach troubles. 167,373; May 1; Serial No. 168,008; published Dec. 26, 1922.
St. Louis Material & Supply Company, St. Louis, Mo. Stucco. 167,407; May 1; Serial No. 168,224; published Dec. 26, 1922.
Standard Biscuit Company, Des Moines, Iowa. Crackers. 167,402; May 1; Serial No. 165,894; published Jan. 30, 1923.
Standard Biscuit Company, Des Moines, Iowa. Crackers. 167,506; May 1; Serial No. 165,890; published Dec. 12, 1922.
Standard Chemical Works, Reading and Womelsdorf, Pa. Insecticides, deodorants, germicides, and disinfectants. 167,356; May 1; Serial No. 144,104; published Sept. 20, 1921.
Standard Granite Company. (See Barclay, Douglas M.)
Standard Motor Company Limited, The, Coventry, England. Motor vehicles. 167,507; May 1; Serial No. 165,835; published Jan. 2, 1923.
Standard Oil Company of New York, New York, N. Y. Stoves and heaters, oil-burning lamps, lanterns, lamp burners, etc. 167,528; May 1; Serial No. 166,207; published Jan. 30, 1923.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 167,537; May 1; Serial No. 171,876; published Jan. 30, 1923.
Stanton, A. P., Medical Co., West Hoboken, N. Y. Laxative and tonic for stomach troubles, constipation, etc. 167,628; May 1; Serial No. 166,859; published Jan. 2, 1923.
Stearns-Eddy Co., Portland, Oreg. Haarlem-oil capsules for kidney, liver, bladder, rheumatism, and uric-acid troubles. 167,417; May 1; Serial No. 169,335; published Feb. 20, 1923.
Stearns-Eddy Co., Portland, Oreg. Preparation for the relief of piles. 167,418; May 1; Serial No. 169,336; published Feb. 20, 1923.
Steel, L. R., Company, Inc., Buffalo, N. Y. Candles. 167,355; May 1; Serial No. 144,160; published Mar. 14, 1922.
Stephens, A. J., Rubber Co., Kansas City, Mo. Packages for use in making emergency repairs to the fan drives of automobiles, etc. 167,452; May 1; Serial No. 162,360; published Dec. 19, 1922.
Sterling Wheelbarrow Co., Milwaukee, Wis. Wheelbarrows. 167,352; May 1; Serial No. 150,489; published Jan. 23, 1923.
Strahmann, Henry C., doing business as N. M. P. Laboratories, New York, N. Y. Pile ointment. 167,367; May 1; Serial No. 169,832; published Jan. 23, 1923.
Straus, Theodore L., Baltimore, Md. Hops. 167,475; May 1; Serial No. 166,611; published Jan. 2, 1923.
Strietmann's, Geo. H., Sons Company, The, Cincinnati, Ohio. Sugar wafers. 167,508; May 1; Serial No. 165,823; published Dec. 12, 1922.
Talcum Puff Co. Inc., Asheville, N. C., and Brooklyn, N. Y. Talcum powder. 167,626, May 1; Serial No. 167,695; published Dec. 26, 1922.
Travis, Mrs. May B., Peekskill, N. Y. External medicine for application to boils, carbuncles, abscesses, etc. 167,605; May 1; Serial No. 164,014; published Jan. 23, 1923.
Triangle Electro Trading Company, New York, N. Y. Radiotelephone receivers and radio sets and parts of radio sets. 167,595; May 1; Serial No. 169,732; published Jan. 23, 1923.
Tribune Company, The, Chicago, Ill. Nom de plume used for newspaper articles. 167,615; May 1; Serial No. 147,055; published Jan. 31, 1922.
Tru-Blu Products Co., New Florence, Pa. Compound for cleaning rugs, carpets, canvas, upholstery, etc. 167,525; May 1; Serial No. 165,837; published Jan. 2, 1923.
Tuska, C. D., Company, The, Hartford, Conn. Radio apparatus. 167,539; May 1; Serial No. 171,109; published Jan. 23, 1923.
Tyler, R. B., Co., Louisville, Ky. Stucco material for exterior and interior use. 167,515; May 1; Serial No. 165,101; published Jan. 9, 1923.
United States Athletic Company. (See Olmsted, Leon A.)
V-W Ventilator Co., Columbus, Ohio. Window ventilators for buildings, ventilators for sash bars, door panels, etc. 167,408; May 1; Serial No. 168,229; published Jan. 23, 1923.
Vacuum Groove Piston Ring Corporation, San Francisco, Calif. Piston rings. 167,523; May 1; Serial No. 165,775; published Dec. 26, 1922.
Van Buskirk, Herbert C., doing business as The Van Co., Saugerties, N. Y. Laxative. 167,489; May 1; Serial No. 154,246; published June 27, 1922.
Van Co., The. (See Van Buskirk, Herbert C.)
Van Dyk and Reeves, Inc., Brooklyn, N. Y. Packed dates, figs, olives and cherries. 167,451; May 1; Serial No. 162,701; published Dec. 12, 1922.
Vapo Stove Company, The, Lima, Ohio. Oil stoves. 167,564; May 1; Serial No. 167,743; published Jan. 30, 1923.
Velvet Action Brake Lining Co., Charlotte, N. C. Brake-band lining for automobiles. 167,521; May 1; Serial No. 165,732; published Dec. 19, 1922.
Vivandou, V., Inc., New York, N. Y. Rouge and face powder in compact form. 167,550; May 1; Serial No. 170,229; published Jan. 30, 1923.
Vocaleze Company, The. (See Ballhe, George.)
Ward Baking Company, New York, N. Y. Bread. 167,381; May 1; Serial No. 166,159; published Jan. 9, 1923.
Warden, Paul S., Chicago, Ill. Daily market bulletin. 167,422; May 1; Serial No. 170,104; published Jan. 2, 1923.
Warren Soap Manufacturing Company, Boston, Mass. Soap. 167,551; May 1; Serial No. 158,740; published Mar. 28, 1922.
Washburn-Crosby Company, Minneapolis, Minn. Wheat flour. 167,492; May 1; Serial No. 149,730; published Jan. 23, 1923.
Watkins Chemical Company. (See Watkins, Harold C.)
Watkins, Harold C., doing business as Watkins Chemical Company, Scranton, Pa. Cathartic. 167,565; May 1; Serial No. 167,700; published Jan. 30, 1923.
Watts, Edward J., San Francisco, Calif. Shampoos. 167,598; May 1; Serial No. 169,659; published Jan. 9, 1923.
Waukee Company, Indianapolis, Ind. Hair dressing in liquid form to be rubbed into the hair and scalp. 167,583; May 1; Serial No. 170,168; published Jan. 30, 1923.
Wedler-Shuford Co., St. Louis, Mo. Seat pads or cushions. 167,450; May 1; Serial No. 163,125; published Jan. 30, 1923.
Wellman Wieber Checkers Company, The, Cleveland, Ohio. Shock absorbers for vehicles. 167,505; May 1; Serial No. 166,275; published Dec. 19, 1922.
Westfield Manufacturing Company, Westfield, Mass. Baby carriages and gocarts. 167,366; May 1; Serial No. 169,942; published Jan. 23, 1923.
Williams, F. Graham, Brick Co., Inc., Atlanta, Ga. Bricks. 167,425; May 1; Serial No. 166,585; published Dec. 19, 1922.
Williston, Laddie A., doing business as Mrs. T. A. Williston, Oakland, Calif. Cosmetics. 167,431; May 1; Serial No. 163,659; published Dec. 26, 1922.
Williston, Mrs. T. A. (See Williston, Laddie A.)

Wilson & Glenny, Ltd., Hawick, Scotland. Cloths and stuffs of wool, worsted, or hair, vestings, cotton and linen cloths. 167,485; May 1; Serial No. 159,910; published Feb. 20, 1923.

Winston, John C., Co., The, Philadelphia, Pa. Printed books issued in continuing series. 167,618; May 1; Serial No. 136,863; published Jan. 2, 1923.

Witcherie Laboratory. (See Forgey, Charles L.)

Wood Conversion Company, Cloquet, Minn. Insulating material. 167,562; May 1; Serial No. 167,790; published Jan. 9, 1923.

Worcester Salt Company, New York, N. Y. Table salt. 167,638; May 1; Serial No. 166,615; published Dec. 26, 1922.

X-Ray Incubator Company, Des Moines, Iowa. Automobile bodies, motor-truck bodies, truck tops, motor-vehicle fenders, etc. 167,575; May 1; Serial No. 166,616; published Jan. 2, 1923.

Yantis, S. R., Milling Co., Fulton, Mo. Self-rising wheat flour. 167,416; May 1; Serial No. 169,041; published Jan. 16, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beaton, J. R., Company, Inc., New York, N. Y. Beaton hose. For Hosiery. 25,869; May 1.

Biddle, Alice M., doing business as Carrolton Packing Co., Hanford, Calif. Travelers. For Dried Raisins. 25,870; May 1.

Biloxi Packing and Trading Company, Inc., Biloxi, Miss. Skookum Brand. For Tin Cans Containing Shrimp. 25,871; May 1.

Burnham & Morrill Co., Portland, Me. B & M. For Lima Beans. 25,872; May 1.

Burnham & Morrill Co., Portland, Me. B & M. For Fish Flakes. 25,873; May 1.

Carrolton Packing Co. (See Biddle, Alice M.)

Cleveland Chemical Corporation, Cleveland, Ohio. Germex. For Germicidal Cleansing and Polishing Materials. 25,874; May 1.

Drackett Chemical Company, The, Cincinnati, Ohio. Drano. For a Chemical for Cleansing Drains, Sinks, Washbowls, Bathtubs, Flush Bowls, Traps, Toilet Bowls, Stationary Washtubs, Waste Pipes, and Lavatories. 25,875; May 1.

Flexo Company, The, Fredericksburg, Va. Flexo The Original Life Giving Belt Treatment High Strength Combination of Tannage Oils. For Dressing Oils Suitable for Softening and Preserving Articles of Leather and Similar Substances. 25,876; May 1.

Gibbs, Dana K., doing business as Willcox & Gibbs Packing Company, Clovis, Calif. Curiosity Box. For Dried Fruits. 25,877; May 1.

Hershey, Daniel W., Dayton, Ohio. Dan. W. Hershey's Famous Special Dressing For All Kinds of Salads. For Salad Dressing. 25,878; May 1.

Hirsch, Walter J., Company, Chicago, Ill. Black Monk. For Ice-Cream Cones. 25,879; May 1.

Johnson Nut Company, Minneapolis, Minn. Johnson's Sane Nuts—They're More Refined. For Salted-Nut Containers. 25,880; May 1.

Jordan Marsh Company, Boston, Mass. Comet. For Golf Balls. 25,811; May 1.

Lily Baking Company, Muskogee, Okla. Daisy. For Bread. 25,882; May 1.

Macon Creamery Company. (See Menasha Printing and Carton Company, assignor.)

Marvin, Burdette K., doing business as Marvin Date Co., Riverside, Calif. Berber. For Dates. 25,883; May 1.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Macon Creamery Company, Macon, Miss. White Pearl Brand. For Cartons for Butter. 25,884; May 1.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Pickerington Creamery, Pickerington, Ohio. Mayflower. For Cartons for Butter. 25,885; May 1.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Mid-West Creamery Company, Ponca City, Okla. Select Brand. For Cartons for Butter. 25,886; May 1.

Mid-West Creamery Company. (See Menasha Printing and Carton Company, assignor.)

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Avalon. For Toilet Tissue Paper. 25,888; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Alpine. For Toilet Tissue Paper. 25,890; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Argonaut. For Toilet Tissue Paper. 25,891; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Southland. For Toilet Tissue Paper. 25,892; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Apartment. For Toilet Tissue Paper. 25,893; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Beach. For Toilet Tissue Paper. 25,894; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Aircraft. For Toilet Tissue Paper. 25,895; May 1.

National Paper Products Co., San Francisco, Calif., and Carthage, N. Y. Golden. For Toilet Tissue Paper. 25,896; May 1.

National Paper Products Company, San Francisco, Calif. Nyanza. For Toilet Paper. 25,887; May 1.

National Paper Products Company, San Francisco, Calif., and Carthage, N. Y. Piute. For Toilet Tissue Paper. 25,889; May 1.

National Paper Products Company, San Francisco, Calif., and Carthage, N. Y. Collegian. For Toilet Tissue Paper. 25,897; May 1.

National Paper Products Company, San Francisco, Calif., and Carthage, N. Y. Westland. For Toilet Tissue Paper. 25,898; May 1.

National Paper Products Company, San Francisco, Calif., and Carthage, N. Y. Goblin. For Toilet Tissue Paper. 25,899; May 1.

Northern Paper Mills, Green Bay, Wis. Normedal. For Wrapper for Toilet-Paper Rolls. 25,900; May 1.

Pickerington Creamery. (See Menasha Printing and Carton Company, assignor.)

Pierce, Percy, Philadelphia, Pa. Percy Pierce Package. For Cartons Containing Ice Cream. 25,901; May 1.

Prouty-Bowler Soap Co., Des Moines, Iowa. P-B. For Soap Flakes. 25,902; May 1.

Realneed Products Co., Harrisburg, Pa. Supergloss. For Auto and Furniture Polish. 25,903; May 1.

Roman Macaroni Co., Long Island City, N. Y. San Marco. For Macaroni. 25,904; May 1.

Willcox & Gibbs Packing Company. (See Gibbs, Dana K.)

Za-Rex Food Products Inc., Boston, Mass. Za-Rex. For Bottles Containing a Fruit Sirup for Making Beverages. 25,905; May 1.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Cleveland Chemical Corporation, Cleveland, Ohio. Get It Now. For Germicidal Cleansing and Polishing Materials. 6,676; May 1.

Reid, Murdoch & Co., Chicago, Ill. Monarch Tea. For Tea. 6,677; May 1.

Reid, Murdoch & Co., Chicago, Ill. Monarch. For Tea, Coffee, and Cocoa. 6,678; May 1.

Reid, Murdoch & Co., Chicago, Ill. Monarch Coffee. For Coffee. 6,679; May 1.

Reid, Murdoch & Co., Chicago, Ill. Monarch Quality. For Groceries. 6,680; May 1.

Richards, James E., Company, The, Dayton, Ohio. Better White Duck Clothing. For White Duck Clothing. 6,681; May 1.

Richards, James E., Company, The, Dayton, Ohio. Sport Trousers. For White Duck Clothing. 6,682; May 1.

Roper, Geo. D., Corporation, Rockford, Ill. The Beauty. For Gas Ranges. 6,683; May 1.

Seaboard Rice Milling Company, Galveston, Tex. Comet Rice. 6,684–7; May 1.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aggeler & Musser Seed Co., Los Angeles, Calif. Field, garden, and farm seeds. 168,743; May 1.

Alberto Vales Company, New Orleans, La. Soap. 174,378; May 1.

Aluminium - Industrie - Aktien - Gesellschaft, Neuhausen, Switzerland. Crude and prepared aluminum and aluminum alloys. 174,875; May 1.

Aluminium - Industrie - Aktien - Gesellschaft, Neuhausen, Switzerland. Aluminum and aluminum alloys. 175,291; May 1.

American Bleached Goods Company Inc., New York, N. Y. Cotton piece goods. 176,522; May 1.

American Burtonizing Company and Wallerstein Laboratories, New York, N. Y. Dextrinous sirup used in making beverages. 160,178; May 1.

American Cone and Pretzel Company, doing business as Continental Packing Corporation, Philadelphia, Pa. Canned peaches, tomatoes, and sweet potatoes. 171,397; May 1.

American Cone and Pretzel Company, doing business as Continental Packing Corporation, Philadelphia, Pa. Canned beans, tomatoes, sweet potatoes, peaches, chili sauce, and catchup put up in containers. 171,398; May 1.

American Hair Felt Co., Chicago, Ill. Hair carpet cushions and hair seat cushions. 173,066; May 1.

American Range & Foundry Company, Minneapolis, Minn. Metal tops, for kitchen and other tables. 173,550; May 1.

American Transformer Company, Newark, N. J. Transformers used in radio apparatuses and parts therefor. 173,289; May 1.

Angeles Packing Company. (See Conniff, Harry.)

Ansonia O & C Co., The, Ansonia, Conn. Clasps for arm bands. 165,053; May 1.

Arnold, Cheney & Co., Inc., New York, N. Y. Cotton piece goods. 176,780; May 1.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. knitted silk fabrics—viz, silk knitted cloth. 175,377; May 1.

Banner Silk Knitting Mills, Inc., New York, N. Y. Knitted silk fabrics—viz, silk knitted crêpe. 175,378; May 1.

Beaman & Parrott, Knoxville, Tenn. Rubber heels for shoes. 175,332; May 1.

Becker, Christian, Inc., New York, N. Y. Balances and weighing scales. 175,597; May 1.

Bethlehem Steel Company, Bethlehem, Pa. Structural steel. 173,738; May 1.

Bird-Archer Company, The, New York, N. Y. Brass and iron cleaners. 158,595; May 1.

Black Bros. Flour Mills, Beatrice, Nebr. Wheat flour. 171,609; May 1.

Black, Walter B., Hoopeston, Ill. Poultry foods. 170,750; May 1.

Blackburn Products Co., The, Dayton, Ohio. Medicinal compound for the treatment of coughs, and a salve. 167,595; May 1.

Bliss Company, Inc., New York, N. Y. Memorandum paper holder. 176,321; May 1.

Bob & Baskind, New York, N. Y. Men's and boys' work shirts, dress shirts, underwear, etc. 168,572; May 1.

Bouck, Harold W., Chicago, Ill. Poultice plasters for pimples and boils. 160,390; May 1.

Boyd, John S., Company Inc., Williamstown, Mass. Cotton pile cloth in the piece. 157,827; May 1.

Brawner, Henry N., jr., doing business as Chestnut Farms Dairy, Washington, D. C. Raw and pasteurized milk, butter, eggs, and cheese. 170,739; May 1.

Briggs, J., & Sons Co., Providence, R. I. Special-process metal and bars, sheets, strips, etc. 171,827; May 1.

Brown, Harvey M., Philadelphia, Pa. Window shades. 172,506; May 1.

Buckeye Traction Ditcher Co., The, Findlay, Ohio. Traction wheels. 175,843; May 1.

Burson Knitting Company, Rockford, Ill. Hosiery. 165,521; May 1.

California Citrus Fruit Juice Company, Wilmington, Del., and San Francisco, Calif. Nonalcoholic, maltless, concentrated fruit juices. 176,163; May 1.

California Underwear and Hosiery Mills, doing business as California Underwear Mills, Los Angeles, Calif. Ladies' knit underwear. 169,619; May 1.

Campbell, Andrew C., Incorporated, Waterbury, Conn. Machines for cutting sheet metal. 173,912; May 1.

Careskey, James L., Louisville, Ky. Monthly magazine. 162,918; May 1.

Casey, John T., doing business as United States Juvenile Vehicle Co., Philadelphia, Pa. Wheeled toys, more particularly walking velocipedes. 170,968; May 1.

Chestnut Farms Dairy. (See Brawner, Henry N., jr.)

Chococone Company, The. (See Alexander, Nathan J.)

Chocolate Products Company, Baltimore, Md. Candy. 171,686; May 1.

Claflus Incorporated, New York, N. Y. Cotton piece goods. 176,668; May 1.

Clark, L. H., Mfg. Co. Inc., Brooklyn, N. Y. Nightgowns. 169,891; May 1.

Cockcroft Silk Co. Inc., New York, N. Y. Silk and silk-mixed fabrics. 177,594; May 1.

Columbia Oil Company, Inc., St. Louis, Mo. Lubricating oils. 170,474; May 1.

Conniff, Harry, doing business as Angeles Packing Company, Seattle, Wash. Canned salmon. 170,566; May 1.

Continental Car Company of America, Louisville, Ky. Automobile and truck bodies, cabs, motor busses, etc. 171,203; May 1.

Continental Packing Corporation. (See American Cone and Pretzel Company.)

Corn Products Refining Co., New York, N. Y. Edible corn oil. 171,487; May 1.

Couch, Ralph F., Washington, D. C. Monthly publication. 175,544; May 1.

Coulter, Maud D., Los Angeles, Calif. Bread, biscuits, cake, cookies, cinnamon rolls, etc. 173,180; May 1.

Cross, Henry H., Company, Chicago, Ill. Motor oil. 175,189; May 1.

Denio, J. W., Milling Company, The, Sheridan, Wyo. Wheat flour. 164,025; May 1.

Dennison Manufacturing Co., Framingham, Mass. Tags. 176,330; May 1.

Dwinell-Wright Company, Boston, Mass. Coffee. 154,793; May 1.

De Vito, Aristide, doing business as Washington Pastry Co., San Francisco, Calif. Honey and nut confections. 167,867; May 1.

Dewart Milk Prod. Co. Inc., Dewart, Pa. Ice cream, sweetened condensed milk, plain condensed milk, ice-cream mixes, etc. 169,849; May 1.

Diamond Manufacturing Company. (See Ewing, Joseph H.)

Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 171,986; May 1.

Doptoglou Bros. of New York, New York, N. Y. Cotton piece goods. 177,037; May 1.

Durkee-Atwood Co., Minneapolis, Minn. Pedal covers. 174,612; May 1.

Edgar Chemical Company, The, Cleveland, Ohio. Liniments. 157,417; May 1.

Elliott Company, The, Kittery, Me. Addressing machinery and equipment and supplies therefor. 172,642; May 1.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 177,368; May 1.

Evansville Packing Company, The, Evansville, Ind. Dressed poultry and lard. 171,531; May 1.

Ewing, Joseph H., doing business as Diamond Manufacturing Company, Malta, Ohio. Gaming devices. 174,360; May 1.

Fair, The, Chicago, Ill. Men's and boys' suits and overcoats. 152,124; May 1.

Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires. 172,416; May 1.

Fletcher, Robert, & Son, Limited, Stoneclough, Manchester, England. Paper treated, etc., for making cigarettes. 173,412; May 1.

Franke, Charles A., Little Rock, Ark. Breads, cakes, and pastries. 170,762; May 1.

Friend Brothers, Melrose, Mass. Bread, cake, pies, canned puddings, and mincemeat, etc. 167,518; May 1.

Fronk, Henriette C., Schenectady, N. Y. Ointment for the treatment of rheumatism, sprains, sores, etc. 173,281; May 1.

Fulghum & Company, Los Angeles, Calif. Hair nets. 176,613–4; May 1.

Garfinkle, Julius, doing business as Julius Garfinkle & Co., Washington, D. C. Hair nets. 177,373; May 1.

Garrett and Co. Inc., Brooklyn, N. Y. Beverages sold as soft drinks and sirups for preparing same. 174,077; May 1.

George Close Co., The, Cambridge, Mass. Candy. 170,562; May 1.

Ghriskey's, Charles M., Sons, Philadelphia, Pa. Tennis-tape reels, baseballs, baseball gloves and mits, baseball bats, etc. 171,456; May 1.

Gleason, John E., Asbury Park, N. J. Gaskets for internal-combustion engines. 170,880; May 1.

Goldsmith, Walter A., Cleveland, Ohio. Bloomers. 151,987; May 1.

Graham Brothers, Evansville, Ind. Motor trucks and automobiles. 172,272; May 1.

Graigen, Rudolph F., New York, N. Y. Bathing caps. 164,757; May 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Grain Belt Mills Company, South St. Joseph, Mo. Horse, dairy, hen, and chick feed, egg mash, etc. 172,154; May 1.
Grant, W. T., Company, Lynn, Mass. Paintbrushes. 173,326; May 1.
Green, A. P., Fire Brick Co., Mexico, Mo. Fire brick, fire-brick cement, fire clay, and tile. 173,486–9; May 1.
Griffin, Robert, Company, The, Jersey City, N. J. Wall paper. 161,250; May 1.
Gunckel, Will H., Toledo, Ohio. Beverage sold as a soft drink. 159,700; May 1.
Halpern & Kalb, Inc., New York, N. Y. Knitted outer garments. 170,186; May 1.
Halpern, Irving J., doing business as Noise Making Devices Company, New York, N. Y. Hand rattles. 174,961; May 1.
Hart, Hubert C., Unionville, Conn. Butcher and kitchen knives, safety-razor blades, glass cutters. 174,738; May 1.
Hartray, J. P., Shoe Co., Chicago, Ill. Shoes made wholly or in part of leather. 173,491; May 1.
Hecht, Daniel, doing business as D. Hecht & Co., San Francisco, Calif. Wheat flour. 165,871; May 1.
Hennessy, Francis W., East Providence, R. I. Roof-edging device. 174,834; May 1.
Henry & Allen, Auburn, N. Y. Metal castings and forgings of standard and special shapes. 175,791; May 1.
Herz, Alexander, doing business as The Herz Straw Co., New York, N. Y. Paper drinking straws. 176,182; May 1.
Hoffman, M. C., & Co., New York, N. Y. Silk and wool crêpe in the piece. 176,546; May 1.
Holding Committee for Educational and Philanthropic Work, The, St. Louis, Mo. Monthly magazine. 161,315; May 1.
Hopkins, J. L., & Co., New York, N. Y. Insecticide. 172,381; May 1.
Horn, A. C., Company, New York, N. Y. Ready-mixed paint for plastered walls, brick or concrete surface, wood and metal trim. 176,738; May 1.
House of Byer, The, Malden, Mass. Waists and hosiery. 168,614; May 1.
Hungarian Rubber Goods Factory Limited, Budapest, Hungary. Tires for cycles, motor cars, and other vehicles. 172,332; May 1.
Hunt, C. Howard, Pen Company, Camden, N. J. Pens. 176,128; May 1.
Idaho Evaporing Co., Meridian, Idaho. Fresh deciduous fruits and fresh vegetables. 169,761; May 1.
Ida Starter Limited, London, England. Compressed-air self-starters for internal-combustion engines. 171,128; May 1.
Illinois Medicine Co., Chicago, Ill. Cathartic medical compound. 168,313; May 1.
Iowa Packing Co., Des Moines, Iowa. Smoked meats, dried beef, sausage, ham, bacon, lard, and butter. 160,290; May 1.
Iten Biscuit Co., Omaha, Nebr. Cookies. 171,923; May 1.
Jean Garment Company, The, Chicago, Ill. Lingerie, gymnasium bloomers, and underwear. 165,382; May 1.
Johns-Manville, Incorporated, New York, N. Y. Heat-insulating felt for use in making built-up roofing. 169,765; May 1.
Julin, Albert A., Chicago, Ill. Hair nets. 159,509; May 1.
Kansas City Macaroni & Importing Co., Kansas City, Mo. Macaroni, spaghetti, macaroni shells, vermicelli, egg noodles, etc. 171,325; May 1.
Kaufman-Rohrlich Knitting Mills, Inc., New York, N. Y. Sweaters and scarfs. 169,308; May 1.
Kaynee Company, The, Cleveland, Ohio. Children's rompers and play garments. 126,221; May 1.
Kaynee Company, The, Cleveland, Ohio. Overalls. 126,222; May 1.
Kehlor Flour Mills Company, St. Louis, Mo. Wheat flour. 171,927; May 1.
King Candy Co., Fort Worth, Tex. Candies. 169,551; May 1.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins and hairpins of nonprecious metal and hand sewing needles. 172,228; May 1.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins and hairpins of nonprecious metal. 172,229; May 1.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins of nonprecious metal. 172,230; May 1.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins and hairpins and hand sewing needles. 172,681; May 1.
Kirkpatrick, John, Richland Center, Wis. Cheese. 172,599; May 1.
Knight, Joe M., Elfers, Fla. Oranges, grapefruit, and citrous fruit in their natural state. 168,848; May 1.
Kortenbach & Rauh, Weyer, Germany. Umbrellas. 162,556; May 1.
Kovacs and Meszaros, Benbo, Pa. Envelopes. 162,179; May 1.
Kushner & Gillman, Inc., New York, N. Y. Outer wear for men's and young men's clothing consisting of coats and suits. 167,134; May 1.
Laboratorium, Leo. (See v. Mayenburg, Ottomar H.)
Lee, Severin S., doing business as S. S. Lee & Co., Spokane, Wash. Chocolate-coated raisins. 164,649; May 1.
Levitt, Benjamin, Philadelphia, Pa. Gasket shellac, glue, and paste. 173,290; May 1.
London & Greenstein, Inc., New York, N. Y. Ladies' trimmed and tailored hats. 176,411; May 1.
Loup Valley Hatchery, St. Paul and Cushing, Nebr. Live chickens. 170,146; May 1.
McHenry Cannery, Modesto, Calif. Canned fruits and vegetables. 171,937; May 1.
McKnight, Earl, Pittsburgh, Pa. Candy and confections in the form of a candy block. 171,761; May 1.
Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao en Chocoladefabrieken, The Hague, Netherlands. Chocolate candy. 166,533; May 1.
Mack Tool Company, Inc., Rochester, N. Y. Carving, edge, and coopers' tools and the like. 174,523; May 1.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 177,092; May 1.
Marcus, Julius Company, Chicago, Ill. Food-flavoring extracts. 169,313; May 1.
Marshall Field & Company, Chicago, Ill. Bimonthly magazines. 161,681; May 1.
Martins Birmingham Limited, Birmingham, England. Golf balls and footballs. 173,972; May 1.
Miller-Caldan Company, Minneapolis, Minn. Chocolate-coated doughnut. 171,228; May 1.
Mintz & Friedman, New York, N. Y. Men's and young men's suits and topcoats. 169,455; May 1.
Moline Plow Company, Incorporated, Moline, Ill. Devices for carrying agricultural tools and connecting them to tractors or other sources of draft power. 176,202; May 1.
Montague & Co., Inc., New York, N. Y. Cretonnes in the piece, valances, and curtains. 177,015; May 1.
Montague, W. R., Company, The, La Crosse, Wis. Cracker products and Dutch-style cookies. 171,098; May 1.
Mostovoy, Maurice, doing business as Sun-Set Raisin Co., Philadelphia, Pa. Raisins. 157,770; May 1.
Movie Home Journal Co., The, Boston, Mass. Periodical monthly magazine. 172,609; May 1.
Munning, A. P., & Co., Matawan, N. J. Lime polishing composition. 166,242; May 1.
Murdock Vulcanizing Co., Montrose, Colo. Plaster for use in forming a vulcanizing pad. 171,181; May 1.
National Bakeries, Inc., The, Tampa, Fla. Bread. 159,763; May 1.
Natchez Baking Company. (See Simon, Leo.)
National Cap Mfg. Company, Louisville, Ky. Caps for men, boys, and children. 159,522; May 1.
National Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires and tubes. 142,802; May 1.
National Tube Company, Pittsburgh, Pa. Metal couplings, pipes, tubes, and casings. 175,882; May 1.
Newhall, H. M., & Co., San Francisco, Calif. Canned fruits and vegetables. 169,772; May 1.
Newton Line Company, Incorporated. Homer, N. Y. Fishing lines. 173,663; May 1.
Newton Line Company, Incorporated. Homer, N. Y. Fishing lines. 173,668; May 1.
Newton Line Company, Incorporated. Homer, N. Y. Fishing lines. 174,747; May 1.
New York Wire & Spring Company, Hoboken, N. J. Automobile bumpers. 173,717; May 1.
New Zealand Refrigerating Company, Limited, The, Christchurch, New Zealand. Wool. 161,373; May 1.
New Zealand Refrigerating Company, Limited, Christchurch, New Zealand. Wool. 161,378; May 1.
Nightrack Manufacturing Company, Huntington, W. Va. Costumer. 174,185; May 1.
Noggle, S. W., doing business as The S. W. Noggle Company, Kansas City, Mo. Cake and pastry mixture. 169,774; May 1.
Noise Making Devices Company. (See Halpern, Irving J.)
Nourse Company, Inc., The, New York, N. Y. Kindergarten materials. 164,822; May 1.
Nu Grape Company of America, The, Atlanta, Ga. Non-alcoholic, maltless grape beverage. 176,276; May 1.
Nutting, Wallace, Incorporated, Ashland, Mass. Colored pictures or plot tinotypes. 170,831; May 1.
Oberndorfer Company, The, Milwaukee, Wis. Rubber aprons. 164,185; May 1.
Olsen-Moller Manufacturing Company, Chicago, Ill. Brake compound. 172,804; May 1.
Owensboro Milling Co., Owensboro, Ky. Hen scratch, chick scratch, laying mash, dairy feed, and horse feed. 170,895; May 1.
Parham-Lindsay Grocery Co., Chattanooga, Tenn. Wheat flour. 162,048; May 1.
Parker-Bridget Company, Washington, D. C. Ladies' sport suits and coats. 159,720; May 1.
Parke, Davis & Company, Detroit, Mich. Anæsthetic cream. 174,632; May 1.
Parke, Davis & Company, Detroit, Mich. Antiseptic mouth wash and gargle. 174,633; May 1.
Parke, Davis & Company, Detroit, Mich. Preparation for treatment of cholelithiasis and allied conditions. 174,634; May 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Penton Publishing Company, The, Cleveland, Ohio. Magazine published weekly. 171,281; May 1.
Perceval, C., New York, N. Y. Lard, vinegar, olives, pickles, sauerkraut, olive oil, etc. 169,819; May 1.
Perfection Cap Company, Incorporated, Seattle, Wash. Men's, women's, and children's hats and caps. 172,349; May 1.
Petersen, Paul W., Chicago, Ill. Refrigerated comestibles—namely, frozen fish. 167,421; May 1.
Pistola, Dante, San Francisco, Calif. Medicine used in the treatment of piles and flatulency. 173,298; May 1.
Playboy Wearables, Inc., New York, N. Y. Boys' outer suits, negligee shirts, and knitted and textile underwear. 168,690; May 1.
Pleasant Grove Canning Co., Pleasant Grove, Utah. Fresh deciduous and citrous fruits, fresh vegetables, canned fruits and vegetables, etc. 171,952; May 1.
Portage Shoe Mfg. Company, Portage, Wis. Shoes made wholly or in part of leather. 173,530; May 1.
Preston, Burton & Co., Mansfield, Ohio. Monuments. 157,002; May 1.
Prina, Frank R., Corporation, The, New York, N. Y. Wheat flour. 149,352; May 1.
Quint, Samuel, doing business as Samuel Quint Company, New York, N. Y. Cotton and woolen hosiery and underwear of knitted material. 164,667; May 1.
Ranger, Richard H., New York, N. Y. Departments or sections of and articles in magazines and the like. 169,519; May 1.
Reeder-Stage Chemical Company, The, Saginaw, Mich. Cleaning compound. 170,954; May 1.
Roesze, Ralph. (See Rose, Ralph.)
Rose, Ralph, doing business as Ralph Roesze, Zion City, Ill. Chemical, medical, and pharmaceutical preparation for removing hair from the human body. 173,299; May 1.
Rosenthal, A. S., Co., Inc., New York, N. Y. All-silk fabric. 176,502; May 1.
Rosenbloom, J. Philip, Co. Inc., New York, N. Y. Young ladies' dresses. 160,457; May 1.
Roos, Ed., Company of Forest Park, Forest Park, Ill. Cedar chest. 173,675; May 1.
Ruppert, Jacob, New York, N. Y. Barley-malt extract. 173,213; May 1.
S & S Shirt Company, The, Philipsburg, Pa. Work, dress, negligee, and flannel shirts. 147,217; May 1.
Santa Clara Company. (See Steohr, Richmond G.)
Sciarina, Gustino, Lafayette, La. Preparation for rheumatism and pains, cramps, cuts, and sores. 172,688; May 1.
Shaw, Arthur H., Wellesley, Mass. Live poultry and eggs. 157,855; May 1.
Simon, Leo, doing business as Natchez Baking Company, Natchez, Miss. Fruit cake. 169,987; May 1.
Sipp Novelty Co. Inc., New York, N. Y. Spinning tops. 175,029; May 1.
Smith, Edward, & Company, Long Island City, N. Y. Varnishes. 177,629; May 1.
Société P. & A. Picard, Paris, France. Cremorne and espagnolette bolts, locks and bolts, steel mortise and rim locks, etc. 158,583; May 1.
Southern Saw Works, Atlanta, Ga. Saws. 159,538; May 1.
Sparrius, Hendrick, doing business as Zenith Golf Ball Works, New York, N. Y. Golf balls. 174,537; May 1.
Sparrius, Hendrik, doing business as Zenith Golf Ball Works, New York, N. Y. Golf balls. 174,534; May 1.
Spiegle, Geo. M., & Co., Philadelphia, Pa. Lumber of all kinds. 172,018; May 1.
St. Anonyme du Fibrociment et des Revetements Elo, Poissy, France. Building materials. 159,539; May 1.
Stavros, James E., West Orange, N. J. Ointment for rheumatism. 169,936; May 1.
Stephens Motor Car Company, Incorporated, Moline, Ill. Automobiles. 175,572; May 1.
Stern Clothing Co., New York, N. Y. Men's and young men's suits and topcoats. 167,851; May 1.
Stevens & Company, Inc., Providence, R. I. Ophthalmic mountings and parts thereof. 174,867; May 1.
Stoehr, Richmond G., doing business as Santa Clara Company, Boston, Mass. Soft drink. 174,491; May 1.
Strohmeyer & Arpe Company, New York, N. Y. Olive and salad oils. 151,237; May 1.
Sturges Company, The, Meridian, Miss. Horse and mule feed. 168,079; May 1.
Sunset Feather Co., San Francisco, Calif. Pillows and cushions. 172,911; May 1.
Sun-Set Raisin Co. (See Mostovoy, Maurice.)
Sure-Edge Stropper Company, Minneapolis, Minn. Razor-blade-stropping holders. 174,187; May 1.
Swine Breeders Pure Serum Company, Thorntown, Ind. Toilet soap. 174,869; May 1.
Taintor Company, The, New York, N. Y. Paris white. 176,314; May 1.
Tetralin-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Resins, coal, coke, rubber, etc. 142,047; May 1.
Thomas-Boyce Direct Feed Company, Attica, N. Y. Poultry, scratch, chicken, hog, dairy, and horse feed, calf meal, egg mash, etc. 165,895; May 1.
Timken Roller Bearing Company, The, Canton, Ohio. Roller bearings and parts thereof. 175,278; May 1.
Tomlinson, George E., Winchester, Ky. Take-down tables 173,943; May 1.
Triumph Electric Co., The, doing business as The Triumph Ice Machine Co., Oakley, Cincinnati, Ohio. Ice-making and refrigerating machinery and the several parts thereof. 167,210; May 1.
Triumph Ice Machine Co. (See Triumph Electric Co., The.)
Unit Construction Company, Philadelphia, Pa. Portable sectional partitions of wood and glass. 152,048–9; May 1.
United Happiness Candy Stores. (See U. R. S. Candy Stores, Inc.)
United States Juvenile Vehicle Co. (See Casey, John T.)
Universal Feature and Specialty Company, Chicago, Ill. Books and comic section in daily newspapers. 150,833; May 1.
U. R. S. Candy Stores, Inc., doing business as United Happiness Candy Stores, Long Island City, N. Y. Candy. 162,594; May 1.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Deodorant and disinfectant. 173,544; May 1.
Valentine & Bunker, New York, N. Y. Silk, cotton, and woolen piece goods and mixtures of the same. 177,805; May 1.
Valiquette, Gilles, Montreal, Quebec, Canada. Rubber treads. 169,339; May 1.
Vanity Fair Silk Mills, Reading, Pa. Garment composed of a combination brassière and chemise. 166,420; May 1.
Vita Rice Products Co., Willows, Glenn County, Calif. Preparation made from rice. 155,841; May 1.
Vivaudou, V., Inc., New York, N. Y. Face powders and creams, perfumes, rouges, hair tonics, etc. 174,645; May 1.
V. Mayenburg, Ottomar H., doing business as Laboratorium Leo, Dresden, Germany. Shaving soap: 156,997; May 1.
Waller, L. D., Seed Co., The, Guadalupe, Calif. Garden and flower seeds. 167,542; May 1.
Ward Baking Company, New York, N. Y. Bread. 171,436; May 1.
Washington Pastry Co. (See De Vito, Aristide.)
Washington, Thomas C., Chevy Chase, Washington, D. C. Puzzles. 168,342; May 1.
Western Reserve Oil Company, The, Cleveland, Ohio. Kerosene, gasoline, lubricating oils, and greases. 171,479; May 1.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. 175,750; May 1.
Whitehouse Products Co., Chicago, Ill. Compound for cleaning hands and the like. 172,700; May 1.
Wilcox Motor Parts & Manufacturing Company, Saginaw, Mich. Tappets and poppet valves for explosion engines. 173,546; May 1.
Wilder-Pike Thermometer Company, Inc., Troy, N. Y. Thermometers. 176,702; May 1.
Wile, M., & Co., Buffalo, N. Y. Monthly publication. 173,547; May 1.
Williams, D. S., doing business as Williams Brothers & Company, Wilkes-Barre, Pa. Canned vegetables, canned milk, catchup, flavoring extracts for foods, and mincemeat. 161,077; May 1.
Willner & Malman, Brooklyn, N. Y. Eggs and butter. 173,220; May 1.
Wilson-Imperial Company, Newark, N. J. Liquid for cleaning fabrics. 170,850; May 1.
Wilton-Plantz Candy Company, The, Valdosta, Ga. Manufactured candy with nuts into a "nut bar." 154,540; May 1.
Wool, F. G., Packing Company, San Jose, Calif. Canned fruits, fruit salad, and vegetables, dried fruit. 172,071; May 1.
Yardley & Co., Limited, Stratford, London, England. Toilet soap. 174,377; May 1.
Zenith Golf Ball Works. (See Sparrius, Hendrik.)

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Airplanes. Longren Aircraft Corporation. 167,369; May 1; Serial No. 168,976; published Jan. 23, 1923.
Aldehyde, methyl alcohol, and ethyl alcohol, Agglomerates of solid. Elektrizitatswerk Lonza. 167,631; May 1; Serial No. 166,778; published Jan. 2, 1923.
Ammoniacal silver nitrate solution, formalin, silver-nitrate stain remover, etc. P. N. Condit. 167,462; May 1; Serial No. 167,225; published Jan. 9, 1923.
Anæsthetic, Local. Seydel Chemical Company. 167,395; May 1; Serial No. 164,057; published Jan. 23, 1923.
Antiperspiration compounds. N. Barna. 167,514; May 1; Serial No. 164,857; published Jan. 30, 1923.
Antiseptic compound. Chinosol Company. 167,483; May 1; Serial No. 160,804; published Jan. 23, 1923.
Antiseptic powder. H. W. Baer. 167,601; May 1; Serial No. 165,224; published Jan. 2, 1923.
Asbestos, Crude. Hobdell, Way and Company. 167,527; May 1; Serial No. 165,905; published Jan. 9, 1923.
Asphalt and composition roofing. I. J. Erikson. 167,457; May 1; Serial No. 167,239; published Dec. 19, 1922.
Automobile bodies, motor-truck bodies, truck tops, etc. X-Ray Incubator Company. 167,575; May 1; Serial No. 166,616; published Jan. 2, 1923.
Automobile bumpers. A. P. Creli. 167,497; May 1; Serial No. 166,434; published Jan. 9, 1923.
Automobile cleaning preparation. A. L. Fawcett. 167,561; May 1; Serial No. 166,445; published Dec. 26, 1922.
Automobile steering controllers. J. Hoffman. 167,607; May 1; Serial No. 157,995; published Dec. 26, 1922.
Automobiles, All fabric accessories made for. Hodes-Zink Mfg. Co. 167,609; May 1; Serial No. 157,221; Dec. 19, 1922.
Automobiles, Brake-band lining for. Velvet Action Brake Lining Co. 167,521; May 1; Serial No. 165,732; published Dec. 19, 1922.
Automobiles, Sun shields for. H. J. Doyle. 167,608; May 1; Serial No. 157,557; published Oct. 24, 1922.
Balm, Goiter. Herman Krebs Pharmacy Co. 167,484; May 1; Serial No. 159,966; published Jan. 23, 1923.
Barrels and the like, Racks for supporting. Economy Engineering Company. 167,534; May 1; Serial No. 172,038; published Jan. 30, 1923.
Beds, davenports, and couches, Folding. Levenson and Zenitz. 167,491; May 1; Serial No. 143,281; published Dec. 26, 1922.
Bicycles. L. A. Olmsted. 167,361; May 1; Serial No. 170,664; published Jan. 23, 1923.
Boilers, Steam. J. S. Schofield's Sons Co. 167,572; May 1; Serial No. 166,719; published Jan. 30, 1923.
Boilers, Steam and hotwater heating. Birchfield Boiler Company. 167,569; May 1; Serial No. 166,974; published Jan. 2, 1923.
Booklets and pamphlets, Monthly. International Union of Timber Worker. 167,619; May 1; Serial No. 167,619; published Dec. 26, 1922.
Books issued in continuing series, Printed. John C. Winston Co. 167,618; May 1; Serial No. 136,863; published Jan. 2, 1923.
Bread. Des Moines Bakery Co. 167,389; May 1; Serial No. 164,536; published Dec. 19, 1922.
Bread. G. W. Huck. 167,460; May 1; Serial No. 167,392; published Jan. 9, 1923.
Bread. Midland Flour Milling Co. 167,413; May 1; Serial No. 168,480; published Jan. 16, 1923.
Bread. Ward Baking Company. 167,381; May 1; Serial No. 166,159; published Jan. 9, 1923.
Bread and toast. N. A. Matson Co. 167,510; May 1; Serial No. 165,702; published Dec. 12, 1922.
Bread, rolls, and buns. H. W. Conrad. 167,383; May 1; Serial No. 166,043; published Jan. 9, 1923.
Brick, fire clay, etc. Pacific Clay Products Co. 167,519; May 1; Serial No. 165,714; published Jan. 30, 1923.
Bricks. F. Graham Williams Brick Co., Inc. 167,425; May 1; Serial No. 166,585; published Dec. 19, 1922.
Bricks and tile, Fire. Crescent Refractories Company. 167,469; May 1; Serial No. 166,984; published Dec. 19, 1922.
Buggies and carriages, bodies and tops of the same, automobile bodies and tops, etc. F. A. Ames Company. 167,488; May 1; Serial No. 153,426; published Jan. 23, 1923.
Bulletin, Daily market. P. S. Warden. 167,422; May 1; Serial No. 170,104; published Jan. 2, 1923.
Butter. Aberdeen Creamery Company. 167,384; May 1; Serial No. 164,793; published Jan. 30, 1923.
Butter. I. Mallowitz. 167,509; May 1; Serial No. 165,805; published Dec. 12, 1922.
Butter, eggs, and raw cream. Pioneer Creamery Co. 167,357; May 1; Serial No. 143,783; published Dec. 19, 1922.
Buttons. Huntington Rubber Mills. 167,536; May 1; Serial No. 171,920; published Jan. 30, 1923.
Cabinet, Steel filing. A. Paulson. 167,476; May 1; Serial No. 163,765; published Jan. 2, 1923.
Cabinets, Medicine. J. P. Eustis Manufacturing Company. 167,468; May 1; Serial No. 166,988; published Jan. 2, 1923.
Candies. L. R. Steel Company. 167,355; May 1; Serial No. 144,160; published Mar. 14, 1922.
Carriages and go-carts, Baby. Westfield Manufacturing Company. 167,366; May 1; Serial No. 169,942; published Jan. 23, 1923.
Cartoons, Series of. I. M. Johnson. 167,423; May 1; Serial No. 170,295; published Jan. 2, 1923.
Cathartic. H. C. Watkins. 167,565; May 1; Serial No. 167,700; published Jan. 30, 1923.
Cement, Portland. Security Cement & Lime Co. 167,522; May 1; Serial No. 165,761; published Jan. 9, 1923.
Cement, Roofing. L. F. Guerre. 167,585; May 1; Serial No. 170,136; published Jan. 9, 1923.
Cereal, Breakfast. G. W. Farny. 167,474; May 1; Serial No. 166,739; published Jan. 9, 1923.
Cereals, Prepared and semiprepared breakfast. Aunt Jemima Mills Company. 167,387; May 1; Serial No. 164,624; published Jan. 30, 1923.
Chairs, Stationary swivel. Mov-Ezy Theatre Seating Co. 167,449; May 1; Serial No. 163,587; published Jan. 23, 1923.
Cheese. F. X. Baumert & Co. 167,397–8; May 1; Serial Nos. 166,928–9; published Jan. 9, 1923.
Cheese. Laersen Products Co. 167,390; May 1; Serial No. 164,325; published Dec. 19, 1922.
Cheese. Roethlisberger & Co. 167,391; May 1; Serial No. 164,198; published Jan. 30, 1923.
Cheese, Grated. D. Colonna & Son. 167,473; May 1; Serial No. 166,876; published Jan. 9, 1923.
Chemical compound. Pinkham Vulcan Compound Co. 167,524; May 1; Serial No. 165,811; published Jan. 9, 1923.
Chemical compounds used as insect exterminators. Rockaway Exterminating Company. 167,380; May 1; Serial No. 167,584; published Jan. 9, 1923.
Chickens and eggs for hatching purposes, White Wyandotte. O. R. Hutchison. 167,557; May 1; Serial No. 165,443; published Dec. 12, 1922.
Cleaning fluid. R. A. Bassett. 167,526; May 1; Serial No. 165,850; published Jan. 30, 1923.
Cloths and stuffs of wool, worsted, etc. Wilson & Glenny, Ltd. 167,485; May 1; Serial No. 159,910; published Feb. 20, 1923.
Coal. Southern Coal & Coke Co. 167,509; May 1; Serial No. 169,653; published Jan. 9, 1923.
Coal-tar chemicals or intermediates, rubber accelerators or catalyzers, etc. National Aniline & Chemical Company. 167,376; May 1; Serial No. 167,824; published Dec. 26, 1922.
Coconut-oil products, Edible. I. M. Simonin. 167,343; May 1; Serial No. 163,009; published Jan. 30, 1923.
Combs. Nores Comb Company. 167,548; May 1; Serial No. 170,306; published Jan. 30, 1923.
Compound for cleaning rugs, carpets, canvas, etc. Tru-Blu Products Co. 167,525; May 1; Serial No. 165,837; published Jan. 2, 1923.
Concrete piles, casting and driving forms or channels for concrete piles. Giant Concrete Pile Co. 167,498; May 1; Serial No. 134,563; published Dec. 19, 1922.
Confection in cake form, Nutritive. Crown Products, Inc. 167,477; May 1; Serial No. 163,735; published Dec. 19, 1922.
Corn oil for food purposes. Aspegren & Co. 167,517; May 1; Serial No. 165,436; published Jan. 30, 1923.
Cosmetics. L. A. Williston. 167,431; May 1; Serial No. 163,659; published Dec. 26, 1922.
Crackers. Fred W. Albrecht Grocery Company. 167,478; May 1; Serial No. 163,663; published Jan. 30, 1923.
Crackers. Standard Biscuit Company. 167,402; May 1; Serial No. 165,894; published Jan. 30, 1923.
Crackers. Standard Biscuit Company. 167,506; May 1; Serial No. 165,890; published Dec. 12, 1922.
Cream, condensed cream, and cheese, Export. E. Smidt. 167,405; May 1; Serial No. 165,464; published Jan. 30, 1923.
Cream, Hand. E. R. Myer. 167,433; May 1; Serial No. 163,282; published Dec. 26, 1922.
Cream, Skin. G. J. Southworth. 167,503; May 1; Serial No. 166,480; published Dec. 26, 1922.
Creams, shampoo, toilet waters, talcum powders, Massage and face. Model Barber Supply Co. 167,430; May 1; Serial No. 161,400; published Jan. 30, 1923.
Dandruff remedy, toilet and skin preparation. J. E. Curran Corporation. 167,414; May 1; Serial No. 168,515; published Jan. 23, 1923.
Dates, figs, olives, and cherries, Packed. Van Dyk and Reeves, Inc. 167,451; May 1; Serial No. 162,701; published Dec. 12, 1922.
Dentifrice. R. O. Lee. 167,582; May 1; Serial No. 170,202; published Jan. 30, 1923.

Deodorants, disinfectants, insecticide, roach powder, pipe cleaner, and scale remover. Sanozone Chemical Co. 167,490; May 1; Serial No. 140,807; published Jan. 23, 1923.
Doors. Morgan Company. 167,516; May 1; Serial No. 165,404; published Jan. 9, 1923.
Draft arms. American Steel Foundries. 167,430; May 1; Serial No. 164,216; published Jan. 23, 1923.
Drain solvents. Buffalo Specialty Co. 167,574; May 1; Serial No. 166,630; published Jan. 9, 1923.
Dress shields. A. Martin. 167,495; May 1; Serial No. 166,240; published Jan. 2, 1923.
Dyestuffs. E. I. du Pont de Nemours & Company. 167,613; May 1; Serial No. 149,954; published Jan. 2, 1923.
Dyestuffs, colors, and pigments. E. C. Klipstein & Sons Company. 167,624; May 1; Serial No. 167,679; published Dec. 26, 1922.
Electrically-operated apparatus for heating and blowing air for drying purposes. General Engineering & Construction Company. 167,481; May 1; Serial No. 162,675; published Jan. 9, 1923.
Eyedrops. P. Kekas. 167,636; May 1; Serial No. 166,600; published Dec. 26, 1922.
Face cleanser and cream, talcum powder, etc. A. Lanzet. 167,464; May 1; Serial No. 167,135; published Jan. 23, 1923.
Feed, Dairy. Ralston Purina Company. 167,415; May 1; Serial No. 168,787; published Jan. 16, 1923.
Feed, Dairy and stock. Commercial Solvents Corporation. 167,393; May 1; Serial No. 164,156; published Dec. 19, 1922.
Feed, Mixed. Gread West Mill & Elevator Co., 167,552; May 1; Serial No. 165,680; published Dec. 12, 1922.
Feeds, Bird and poultry. H-O Cereal Company. 167,385; May 1; Serial No. 164,643; published Jan. 30, 1923.
Fire-clay goods. Gartcraig Fire Clay Company. 167,576; May 1; Serial No. 166,550; published Jan. 9, 1923.
Flesh builder and iron tonic. W. A. Lawler. 167,501; May 1; Serial No. 166,508; published Dec. 26, 1922.
Flour, Prepared pastry. Flako Products Corporation. 167,558; May 1; Serial No. 165,440; published Dec. 12, 1922.
Flour, Self-rising. Federal Mill & Elevator Co. 167,382; May 1; Serial No. 166,056; published Jan. 9, 1923.
Flour, Self-rising wheat. Majestic Milling Co. 167,339; May 1; Serial No. 163,103; published Dec. 19, 1922.
Flour, Self-rising wheat. S. R. Yantis Milling Co., 167,416; May 1; Serial No. 169,041; published Jan. 16, 1923.
Flour, Wheat. Atlanta Milling Company. 167,434; May 1; Serial No. 163,250; published Dec. 19, 1923.
Flour, Wheat. Aunt Jemima Mills Company. 167,394; May 1; Serial No. 164,090; published Dec. 19, 1922.
Flour, Wheat. Bernet, Craft & Kauffman Milling Co. 167,479; May 1; Serial No. 163,032; published Dec. 19, 1922.
Flour, Wheat. Luehrmann Hay & Grain Co. 167,340; May 1; Serial No. 163,097; published Dec. 19, 1922.
Flour, Wheat. Washburn-Crosby Company. 167,492; May 1; Serial No. 149,730; published Jan. 23, 1923.
Flutes and piccolos. Wm. S. Haynes Co. 167,360; May 1; Serial No. 171,216; published Jan. 30, 1923.
Foodstuffs produced on the farm and in the dairy. C. M. Ryder. 167,344; May 1; Serial No. 163,004; published Dec. 19, 1922.
Foot powder, Antiseptic. A. O. Schmidt. 167,368; May 1; Serial No. 166,784; published Jan. 23, 1923.
Frames, Picture. B. Proctor, jr. 167,538; May 1; Serial No. 171,707; published Jan. 30, 1923.
Furniture. C. I. Baker. 167,610; May 1; Serial No. 154,426; published Oct. 10, 1922.
Furniture, Household and office. Charles P. Rogers & Co. 167,480; May 1; Serial No. 162,852; published Dec. 26, 1922.
Garages, Portable metallic. J. A. Baldwin. 167,511; May 1; Serial No. 166,341; published Jan. 30, 1923.
Gas, Carbonic-acid. Compressed Carbonic Company. 167,602; May 1; Serial No. 165,063; published Dec. 26, 1922.
Gasoline, naphtha, kerosene, fuel oils, etc., Henry H. Cross Company. 167,531; May 1; Serial No. 174,294; published Feb. 27, 1923.
Germicide. Boro Chemical Co. 167,560; May 1; Serial No. 165,267; published Dec. 26, 1922.
Granite blocks. D. M. Barclay. 167,622; May 1; Serial No. 167,761; published Dec. 19, 1922.
Hair dressing. Waukee Company. 167,583; May 1; Serial No. 170,168; published Jan. 30, 1923.
Hair nets. Fulghum & Company. 167,456; May 1; Serial No. 168,029; published Feb. 13, 1923.
Hair rolls. Reichman & Faust. 167,443; May 1; Serial No. 161,065; published Nov. 7, 1922.
Hair tonic. A. P. Eliaves. 167,570; May 1; Serial No. 166,940; published Jan. 2, 1923.
Hair tonic. N. P. Kipuroff. 167,377; May 1; Serial No. 167,820; published Dec. 26, 1922.
Hair tonic. J. Lequy. 167,351; May 1; Serial No. 150,694; published Jan. 23, 1923.
Hair tonic and dandruff remedy. O. K. Quast. 167,563; May 1; Serial No. 167,783; published Jan. 30, 1923.
Hair tonics. E. A. Hughbanks. 167,375; May 1; Serial No. 167,876; published Dec. 26, 1922.
Hair wavers. R. Gordone. 167,632; May 1; Serial No. 166,681; published Nov. 14, 1922.
Hair wavers, crimpers, curlers, etc. L. M. Garrity & Co. 167,410; May 1; Serial No. 168,361; published Jan. 2, 1923.
Hardware, Builders'. Reading Hardware Company. 23,325; renewed July 4, 1923.
Heater, Hot-water. Central Radiator Company. 167,578; May 1; Serial No. 166,523; published Jan. 2, 1923.
Herb teas and medicines for disorders of the stomach, liver, etc., Laxative. Electronic Remedy Co. 167,555; May 1; Serial No. 165,538; published Jan. 2, 1923.
Hops. J. Sonnenschein Hop Company. 167,400; May 1; Serial No. 166,514; published Dec. 19, 1922.
Hops. T. L. Straus. 167,475; May 1; Serial No. 166,611; published Jan. 2, 1923.
Hose, Fabric. William and Charles Beck, Inc. 167,444; May 1; Serial No. 160,740; published Jan. 23, 1923.
Iron solution for intravenous and intramuscular use. Butler Laboratories, Inc. 167,500; May 1; Serial No. 166,521; published Jan. 2, 1923.
Insecticides. Bowker Insecticide Co. 167,421; May 1; Serial No. 169,749; published Jan. 9, 1923.
Insecticides. E. R. Chesney. 167,466; May 1; Serial No. 167,118; published Jan. 23, 1923.
Insecticides. Hightstown Hardware Company. 167,635; May 1; Serial No. 166,596; published Jan. 2, 1923.
Insecticides. Smith Mfg. Co. 167,592; May 1; Serial No. 169,786; published Jan. 9, 1923.
Insecticides, deodorants, etc. Standard Chemical Works. 167,356; May 1; Serial No. 144,104; published Sept. 20, 1921.
Insulating material. Wood Conversion Company. 167,562; May 1; Serial No. 167,790; published Jan. 9, 1923.
Insulators for high-tension insulation. Locke Insulator Corporation. 167,606; May 1; Serial No. 163,526; published Feb. 20, 1923.
Lamps, Miners' acetylene. Justrite Manufacturing Company. 167,518; May 1; Serial No. 165,629; published Jan. 2, 1923.
Laxative. H. C. Van Buskirk. 167,489; May 1; Serial No. 154,246; published June 27, 1922.
Laxative and tonic, Herb. A. P. Stanton Medical Co. 167,628; May 1; Serial No. 166,859; published Jan. 2, 1923.
Leather, Sole. Gutterman-Strauss Company. 167,639; May 1; Serial No. 167,980; published Dec. 19, 1922.
Light supports. M. Greenan. 167,454; May 1; Serial No. 161,879; published Jan. 30, 1923.
Lime, plaster, cement, and mixtures of cement and sand. Cutler-Magner Co. 167,461; May 1; Serial No. 167,295; published Dec. 19, 1922.
Liniment. N. Schlosinger. 167,629; May 1; Serial No. 166,855; published Jan. 2, 1923.
Liniment for rheumatism, lumbago, gout, and colds. C. L. Scheele. 167,640; May 1; Serial No. 167,946; published Jan. 2, 1923.
Liniment for sprains, etc., pepsin lactated compound for indigestion, etc., Chlor-methyl. W. H. Rorer. 167,403; May 1; Serial No. 165,639; published Jan. 30, 1923.
Liquid-fuel burners. Scarab Oil Burning Company. 167,530; May 1; Serial No. 166,019; published Jan. 2, 1923.
Lotion, Face. A. J. Krank Mfg. Co. 167,364; May 1; Serial No. 170,022; published Jan. 23, 1923.
Lotion for chapped hands. D. & N. Drug Co. 167,409; May 1; Serial No. 168,356; published Jan. 9, 1923.
Magazine or periodical. Periodical Digest Corporation. 167,487; May 1; Serial No. 155,318; published Dec. 5, 1922.
Magnesite, Plastic calcined. American Mineral Production Company. 167,634; May 1; Serial No. 166,620; published Dec. 19, 1922.
Matches. Diamond Match Company. 167,347–8; May 1; Serial Nos. 158,820–1; published Apr. 25, 1922.
Mattresses. New England Fibre Mills. 167,532; May 1; Serial No. 172,287; published Jan. 30, 1923.
Mattresses. New England Fibre Mills. 167,533; May 1; Serial No. 172,285; published Jan. 30, 1923.
Medical instrument, Electrical. Dr. A. Abrams. 167,541; May 1; Serial No. 170,744; published Feb. 21, 1923.
Medicated cream for the treatment of wrinkles, acne, etc. Opazel Laboratories, Inc. 167,604; May 1; Serial No. 164,942; published Dec. 26, 1922.
Medicated shields or pads for corns, calluses, and bunions, Adhesive. Scholl Manufacturing Company. 167,579; May 1; Serial No. 167,739; published Dec. 26, 1922.
Medicine for aiding digestion. R. G. Bishop. 167,406; May 1; Serial No. 168,195; published Jan. 9, 1923.
Medicine for application to boils, carbuncles, etc., External. Mrs. M. B. Travis. 167,605; May 1; Serial No. 164,014; published Jan. 23, 1923.
Medicine, Kidney and bladder. Blackburn Products Co. 167,470; May 1; Serial No. 166,979; published Jan. 23, 1923.
Medicinal liquid for relief of throat irritations, colds, etc. G. Ballhe. 167,374; May 1; Serial No. 167,970; published Dec. 26, 1922.

Medicinal preparation for coughs, colds, bronchitis, etc. A. J. Brissette. 167,625; May 1; Serial No. 167,707; published Dec. 26, 1922.
Medicinal preparation for hay fever, rose and catarrhal colds. H. F. Chemical Company. 167,554; May 1; Serial No. 165,590; published Dec. 26, 1922.
Medicinal tonic for stomach troubles. S. Spinner. 167,373; May 1; Serial No. 168,008; published Dec. 26, 1922.
Metal cleaner and polish. Grady Mfg. Co. 167,544; May 1; Serial No. 170,583; published Jan. 2, 1923.
Milk and cream. A. M. Richards. 167,472; May 1; Serial No. 166,957; published Dec. 12, 1922.
Moldings, castings, etc., Composition used in the manufacture of. American Cellulose & Chemical Manufacturing Company. 167,512; May 1; Serial No. 166,212; published Jan. 9, 1923.
Mutton, lamb, beef, and tallow. New Zealand Refrigerating Company Limited. 167,441; May 1; Serial No. 161,371; published Jan. 30, 1923.
Nail creams, rouges, powders, and polishes. W. R. Smith. 167,428; May 1; Serial No. 164,969; published Oct. 10, 1922.
Newspapers. Army and Navy Register Publishing Co. 22,896; renewed May 2, 1923.
Nitrocellulose compound. Sheeting made from. Bachmann Bros. 167,571; May 1; Serial No. 166,931; published Jan. 9, 1923.
Nom de plume used for newspaper articles. Tribune Company, The. 167,615; May 1; Serial No. 147,055; published Jan. 31, 1922.
Oil capsules, Haarlem-. Stearns-Eddy Co. 167,417; May 1; Serial No. 169,335; published Feb. 20, 1923.
Oil, Lubricating. Boston Harbor Oil Company. 167,568; May 1; Serial No. 167,379; published Dec. 19, 1922.
Oils and greases, Lubricating. Standard Oil Company. 167,537; May 1; Serial No. 171,876; published Jan. 30, 1923.
Oils for preserving leather and neat's-foot oil. New Zealand Refrigerating Company Limited. 167,455; May 1; Serial No. 161,381; published Jan. 2, 1923.
Ointment, Antiseptic healing. G. Jack. 167,580; May 1; Serial No. 166,455; published Jan. 30, 1923.
Ointment for croup, colds, pneumonia, bronchitis, etc. G. Holden. 167,621; May 1; Serial No. 167,721; published Jan. 2, 1923.
Ointment for rheumatism, influenza, spasmodic croup, etc. L. O. Harrah. 167,346; May 1; Serial No. 164,640; published Jan. 2, 1923.
Ointment, Healing. Hygeia Nursing Bottle Co. 167,346; May 1; Serial No. 160,808; published Jan. 23, 1923.
Ointment, Pile. H. C. Strahmann. 167,367; May 1; Serial No. 169,832; published Jan. 23, 1923.
Ointment used for treating eczema, hemorrhoids, etc. Kleral Laboratories, Inc. 167,420; May 1; Serial No. 170,021; published Jan. 9, 1923.
Oxygenated tablet used in the treatment of pulmonary diseases. W. B. Hunt, M. D. 167,494; May 1; Serial No. 166,230; published Jan. 16, 1923.
Packages for use in making emergency repairs to the fan drives of automobiles, etc. A. J. Stephens Rubber Co. 167,452; May 1; Serial No. 162,360; published Dec. 19, 1922.
Pads or cushions, Seat. Wedler-Shuford Co. 167,450; May 1; Serial No. 168,125; published Jan. 30, 1923.
Paints, paint enamels, Japans, varnishes, etc. Detroit White Lead Works. 167,535; May 1; Serial No. 171,985; published Feb. 13, 1923.
Paints, stains, varnishes, and similar articles. Harrison Bros. & Co. 22,656; renewed Mar. 14, 1923.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. 167,341; May 1; Serial No. 163,093; published July 25, 1922.
Pastry. O. Davis and C. R. Ridgway. 167,435; May 1; Serial No. 163,216; published Jan. 30, 1923.
Patterns, Perforated. E. Engler. 167,540; May 1; Serial No. 170,812; published Jan. 30, 1923.
Perfumes. Harriet Hubbard Ayer. 167,345; May 1; Serial No. 162,975; published Aug. 22, 1922.
Perfumes, toilet waters, face and talcum powder, face lotion, and cream, and rouge. Paul Prot & Cie. 167,363; May 1; Serial No. 170,087; published Jan. 30, 1923.
Perfumes, toilet waters, face and talcum powders, face lotion, and cream, and rouge. Paul Prot & Cie. 167,587–8; May 1; Serial Nos. 170,084–5; published Jan. 30, 1923.
Phonographic note disks, note cylinders, and sound plates or records, etc. Polyphonwerke Aktiengesellschaft. 167,353; May 1; Serial No. 145,585; published Jan. 30, 1923.
Phonographs, phonograph records and needles, etc. Sears, Roebuck and Co. 167,620; May 1; Serial No. 125,254; published Jan. 10, 1923.
Pins, snap fasteners, and hooks and eyes, Safety and toilet. Francis Manufacturing Co. 167,573; May 1; Serial No. 166,674; published Dec. 26, 1922.
Pipe, tile water pipe, tile conduit pipe, etc., Vitrified salt-glazed sewer. Pacific Clay Products Co. 167,520; May 1; Serial No. 165,715; published Jan. 30, 1923.
Piston rings. Vacuum Groove Piston Ring Corporation. 167,523; May 1; Serial No. 165,775; published Dec. 26, 1922.
Post cards, Picture. C. A. Cunningham. 167,424; May 1; Serial No. 170,629; published Jan. 2, 1923.
Poultry, Live. E. M. Hobbs. 167,388; May 1; Serial No. 164,592; published Jan. 30, 1923.
Powder adapted for toilet use, Liquid. J. Ogilvie. 167,603; May 1; Serial No. 165,029; published Dec. 26, 1922.
Powder and paste, Tooth. Nature Products Company. 167,362; May 1; Serial No. 170,256; published Jan. 30, 1923.
Powder, Digestive and liver. Jackson Medicine Company. 167,359; May 1; Serial No. 171,924; published Feb. 13, 1923.
Powder, Face. American Excelsior Trading Company. 167,342; May 1; Serial No. 163,024; published Dec. 26, 1922.
Powder, rouge, toilet creams and powder, perfumes, etc. Face. H. Karton. 167,411; May 1; Serial No. 168,417; published Jan. 23, 1923.
Powder, Talcum. Smith, Kline & French Co. 167,499; May 1; Serial No. 136,571; published Jan. 23, 1923.
Powder, Talcum. Talcum Tuff Co. 167,626; May 1; Serial No. 167,695; published Dec. 26, 1922.
Powders, compacts, lip sticks, etc., Face, talcum, sachet, and toilet. American Toilet Goods Company. 167,504; May 1; Serial No. 166,429; published Jan. 2, 1923.
Preparation for dysentery, diarrhoea, cholera morbus, summer complaints, etc. Honoroff & Wittmer Co. 167,349; May 1; Serial No. 153,140; published Dec. 26, 1922.
Preparation for headache, neuralgia, colds, etc. A. W. Fingl. 167,502; May 1; Serial No. 166,504; published Jan. 2, 1923.
Preparation for neuralgia, neuritis, headache, and colds. Arobin Drug Company. 167,612; May 1; Serial No. 152,668; published Jan. 2, 1923.
Preparation for pains, burns, bruises, and cancer. J. J. Martinka. 167,637; May 1; Serial No. 166,603; published Jan. 2, 1923.
Preparation for straightening hair. E. Burnham, Inc. 167,579; May 1; Serial No. 166,496; published Jan. 2, 1923.
Preparation for the relief of colds. I. C. Glessner. 167,371; May 1; Serial No. 168,764; published Jan. 2, 1923.
Preparation for the relief of piles. Stearns-Eddy Co. 167,418; May 1; Serial No. 169,336; published Feb. 20, 1923.
Preparation for the treatment of diseases of the blood, stomach, etc. Fayssoux-Brown Remedy Company. 167,482; May 1; Serial No. 161,682; published Jan. 2, 1923.
Preparation for the treatment of goiter. R. G. Kett. 167,453; May 1; Serial No. 162,116; published Jan. 9, 1923.
Preparation for treating scalp diseases and stimulating the growth of hair. J. P. Spake. 167,458; May 1; Serial No. 167,585; published Jan. 9, 1923.
Preparation for use in internal inflammation. E. W. Knowlton. 167,365; May 1; Serial No. 169,977; published Jan. 23, 1923.
Preparation for use on the skin to keep the mosquitoes away, Liquid. Baltic Chemical Co. 167,426; May 1; Serial No. 165,341; published Jan. 30, 1923.
Preparation, Infants' colic. E. B. Johnston. 167,392; May 1; Serial No. 164,168; published Jan. 2, 1923.
Preparation used as an antispasmodic. Merck & Co. 167,625; May 1; Serial No. 167,684; published Dec. 26, 1922.
Preparations for making blood test, Chemical. A. M. Roman. 167,370; May 1; Serial No. 168,803; published Feb. 13, 1923.
Preparations for pyorrhea. J. C. Clark. 167,633; May 1; Serial No. 166,648; published Dec. 26, 1922.
Preparations for the treatment of the blood, gout, boils, etc. S. B. Leonardi & Co. 167,404; May 1; Serial No. 165,591; published Dec. 26, 1922.
Preparations used as hypnotics. Merck & Co. 167,566; May 1; Serial No. 167,685; published Jan. 9, 1923.
Publication, Monthly. H. M. Harrison. 167,543; May 1; Serial No. 170,684; published Jan. 30, 1923.
Publication, Title of daily. Press-Union Publishing Co. 167,593–4; May 1; Serial Nos. 169,778–9; published Jan. 30, 1923.
Quartz, Fused. Exolon Company. 167,611; May 1; Serial No. 153,758; published Dec. 19, 1922.
Radiators, Gas steam. Cabco Iron Works, Inc. 167,412; May 1; Serial No. 168,447; published Jan. 23, 1923.
Radio apparatus. C. D. Tuska Company. 167,539; May 1; Serial No. 171,109; published Jan. 23, 1923.
Radio sets and parts thereof. American Radio & Electric Co. 167,581; May 1; Serial No. 169,572; published Jan. 23, 1923.
Radio sets and parts thereof, etc. Radio Corporation of America. 167,591; May 1; Serial No. 169,824; published Jan. 30, 1923.
Radiotelephone receivers and radio sets and parts of radio sets. Triangle Electric Trading Company. 167,595; May 1; Serial No. 169,732; published Jan. 23, 1923.
Rattan products. W. M. Milne. 167,616; May 1; Serial No. 146,325; published Dec. 19, 1922.
Relief for burns, cuts, skin diseases, catarrh, etc. Dr. B. F. Newton. 167,556; May 1; Serial No. 165,457; published Dec. 26, 1922.
Remedy for corns and bunions. N. Schlosinger. 167,630; May 1; Serial No. 166,854; published Jan. 2, 1923.

Rice and coffee. Paris & Co. 167,396; May 1; Serial No. 163,894; published Dec. 19, 1923.
Rings, Finger. J. B. Bowden & Company. 167,354; May 1; Serial No. 144,273; published Jan. 30, 1923.
Roofing, Asphalt. J. W. Moore. 167,546–7; May 1; Serial No. 170,397–8; published Jan. 9, 1923.
Roofing, Prepared. Federal Asbestos Co. 167,614; May 1; Serial No. 148,991; published Jan. 2, 1923.
Rouge and face powder. V. Vivaudou, Inc. 167,550; May 1; Serial No. 170,229; published Jan. 30, 1923.
Rouge, Face. C. L. Forgey. 167,419; May 1; Serial No. 169,631; published Jan. 9, 1923.
Rubber sponges and rubber sponge for manufacturing purposes. Featheredge Rubber Company. 167,432; May 1; Serial No. 163,332; published Jan. 30, 1923.
Rust-solvent preparations. Halstead Specialties Company. 167,372; May 1; Serial No. 168,149; published Jan. 23, 1923.
Salt, Dry chemical mixture or effervescent. Abbey Effervescent Salt Company. 167,597; May 1; Serial No. 169,695; published Feb. 6, 1923.
Salt for meat curing and general use, Medium. Carey Salt Company. 167,390; May 1; Serial No. 166,653; published Jan. 2, 1923.
Salt, Table. Worcester Salt Company. 167,638; May 1; Serial No. 166,615; published Dec. 26, 1922.
Salts, bicarbonate of soda, boric acid, borax, etc., Epsom. Fabyan & Company. 167,496; May 1; Serial No. 166,363; published Jan. 9, 1923.
Salve for all swelling and cancer, Healing. S. Abels. 167,596; May 1; Serial No. 169,696; published Jan. 9, 1923.
Salve for burns, scalds, and sunburn. R. Gabboia. 167,559; May 1; Serial No. 165,284; published Jan. 2, 1923.
Salve or skin balm which is an antiseptic dressing. T. H. Adams. 167,471; May 1; Serial No. 166,970; published Jan. 23, 1923.
Seeds, Grass, field, and garden. Colorado Milling & Elevator Company. 167,401; May 1; Serial No. 166,288; published Jan. 23, 1923.
Shade cloths, Chemical cleaner for. Chemitex Products Company. 167,448; May 1; Serial No. 163,779; published Jan. 23, 1923.
Shampoos. E. J. Watts. 167,598; May 1; Serial No. 169,659; published Jan. 9, 1923.
Shellac. Edward J. Shannon Company. 167,617; May 1; Serial No. 142,038; published Dec. 19, 1922.
Shingles. John Schroeder Lumber Co. 167,467; May 1; Serial No. 167,029; published Dec. 19, 1922.
Shock absorbers for vehicles. Wellman-Wieber Checkers Company. 167,505; May 1; Serial No. 166,275; published Dec. 19, 1922.
Sleds, Children's. The Fair. 167,545; May 1; Serial No. 170,573; published Jan. 30, 1923.
Soap. Buster Brown Soap Company. 167,600; May 1; Serial No. 169,574; published Jan. 2, 1923.
Soap. Cerecedo Hnos. & Co. Sucrs. 167,586; May 1; Serial No. 170,122; published Jan. 2, 1923.
Soap. Colgate & Company. 167,542; May 1; Serial No. 170,710; published Jan. 23, 1923.
Soap. Lever Brothers Company. 167,446; May 1; Serial No. 164,548; published Jan. 2, 1923.
Soap. Warren Soap Manufacturing Company. 167,551; May 1; Serial No. 158,740; published Mar. 28, 1922.
Soap powder, soap paste, Hand. Precision Metal Workers. 167,567; May 1; Serial No. 167,648; published Dec. 26, 1922
Soaps. Harral Soap Co. 167,549; May 1; Serial No. 170,290; published Jan. 2, 1923.
Stoves and heaters, oil-burning lamps, lanterns, lamp burners, etc. Standard Oil Company of New York. 167,528; May 1; Serial No. 166,207; published Jan. 30, 1923.
Stoves, Gas, coal, oil, and gasoline. American Stove Company. 167,529; May 1; Serial No. 166,163; published Jan. 2, 1923.
Stoves, Oil. Vapo Stove Company. 167,564; May 1; Serial No. 167,743; published Jan. 30, 1923.
Stoves, Oil-lamp. Consolidated Iron-Steel Manufacturing Company. 167,442; May 1; Serial No. 161,235; published Jan. 2, 1923.
Stoves or ranges. Magee Furnace Company. 167,459; May 1; Serial No. 167,481; published Jan. 23, 1923.
Stoves, ranges, and heaters. Anchor Stove & Range Co. 167,493; May 1; Serial No. 150,425; published Jan. 9, 1923.
Stucco. St. Louis Material & Supply Company. 167,407; May 1; Serial No. 168,224; published Dec. 26, 1922.
Stucco material. R. B. Tyler Co. 167,515; May 1; Serial No. 165,101; published Jan. 9, 1923.
Sulphur compound, Pulverulent. Chemische Fabrik Marienfelde G. m. b. H. 167,437; May 1; Serial No. 163,737; published Jan. 30, 1923.
Suppository, Medical vaginal. E. B. Norton. 167,350; May 1; Serial No. 152,180; published Dec. 26, 1922.
Tablet, Chocolate laxative. Mutual Pharmacal Company. 167,486; May 1; Serial No. 158,053; published June 6, 1922.
Tablets, liniments, etc., Laxative, charcoal, headache, and other. L. Romanik. 167,553; May 1; Serial No. 165,637; published Dec. 26, 1922.
Tablets, Throat. H. C. Jarvis. 167,465; May 1; Serial No. 167,132; published Jan. 9, 1923.
Tallow. New Zealand Refrigerating Company Limited. 167,440; May 1; Serial No. 161,372; published Jan. 23, 1923.
Threads, twists, and for artificial embroidery flosses, Silk and cotton. H. K. H. Silk Company. 167,436; May 1; Serial No. 164,540; published Jan. 9, 1923.
Threads, twists, and for artificial embroidery flosses, Silk and cotton. H. K. H. Silk Company. 167,447; May 1; Serial No. 164,541; published Jan. 19, 1923.
Tires and inner tubes, Pneumatic. Bell Tire Company Incorporated. 167,513; May 1; Serial No. 164,784; published Jan. 2, 1923.
Toilet preparations. A. Bourjois & Co. 167,378; May 1; Serial No. 167,766; published Dec. 26, 1922.
Toilet preparations. P. Meyer. 167,463; May 1; Serial No. 167,186; published Jan. 9, 1923.
Tooth paste. Nulyne Laboratories. 167,358; May 1; Serial No. 124,864; published Apr. 13, 1920.
Tooth paste and powder. Louis Philippe, Inc. 167,584; May 1; Serial No. 170,153; published Jan. 30, 1923.
Tubes, Repair patches for pneumatic. H. E. Conroy. 167,445; May 1; Serial No. 160,582; published Jan. 2, 1923.
Vehicles, Motor. Standard Motor Company. 167,507; May 1; Serial No. 165,835; published Jan. 2, 1923.
Ventilators for buildings, sash bars, door panels, etc. V-W Ventilator Co. 167,408; May 1; Serial No. 168,229; published Jan. 23, 1923.
Violins, guitars, mandolins, etc. Gustav Pirazzi & Comp. 167,429; May 1; Serial No. 164,825; published Jan. 30, 1923.
Wafers, Sugar. Geo. H. Strietmann's Sons Company. 167,508; May 1; Serial No. 165,823; published Dec. 12, 1922.
Washing powder. Opax Products Company. 167,438; May 1; Serial No. 162,847; published Jan. 2, 1923.
Wheelbarrows. Sterling Wheelbarrow Co. 167,352; May 1; Serial No. 150,489; published Jan. 23, 1923.
Wood cleaners, Liquid. C. M. Andersen. 167,577; May 1; Serial No. 166,546; published Jan. 23, 1923.
Wood panel board. Chester T. Sanderson Co. 167,590; May 1; Serial No. 169,828; published Jan. 9, 1923.
Wood preserver, Chemical substance used as a. Creolin Co. 167,589; May 1; Serial No. 169,847; published Jan. 9, 1923.

ALPHABETICAL LIST OF LABELS.

Aircraft. For Toilet Tissue Paper. National Paper Products Co. 25,895; May 1.
Alpine. For Toilet Tissue Paper. National Paper Products Co. 25,890; May 1.
Apartment. For Toilet Tissue Paper. National Paper Products Co. 25,893; May 1.
Argonaut. For Toilet Tissue Paper. National Paper Products Co. 25,891; May 1.
Avalon. For Toilet Tissue Paper. National Paper Products Co. 25,888; May 1.
B & M. For Fish Flakes. Burnham & Morrill Co. 25,873; May 1.
B & M. For Lima Beans. Burnham & Morrill Co. 25,872; May 1.
Beach. For Toilet Tissue Paper. National Paper Products Co. 25,894; May 1.
Beaton Hose. For Hosiery. J. R. Beaton Company. 25,869; May 1.
Berber. For Dates. B. K. Marvin. 25,883; May 1.
Black Monk. For Ice-Cream Cones. Walter J. Hirsch Company. 25,879; May 1.
Collegian. For Toilet Tissue Paper. National Paper Products Company. 25,897; May 1.
Comet. For Golf Balls. Jordan Marsh Company. 25,881; May 1.
Curiosity Box. For Dried Fruits. D. K. Gibbs. 25,877; May 1.
Daisy. For Bread. Lily Baking Company. 25,882; May 1.
Dan W. Hershey's Famous Special Dressing For All Kinds of Salads. For Salad Dressing. D. W. Hershey. 25,878; May 1.
Drano. For a Chemical for Cleansing Drains, Sinks, Washbowls, Bathtubs, Flush Bowls, Traps, Toilet Bowls, Stationary Washtubs, Waste Pipes, and Lavatories. Drackett Chemical Company. 25,875; May 1.
Flexo The Original Life Giving Belt Treatment High Strength Combination of Tannage Oils. For Dressing Oils Suitable for Softening and Preserving Articles of Leather and Similar Substances. Flexo Company. 25,876; May 1.

Germex. For Germicidal Cleansing and Polishing Materials. Cleveland Chemical Corporation. 25,874; May 1.
Goblin. For Toilet Tissue Paper. National Paper Products Company. 25,895; May 1.
Golden. For Toilet Tissue Paper. National Paper Products Co. 25,896; May 1.
Johnson's Sane Nuts—They're More Refined. For Salted-Nut Containers. Johnson Nut Company. 25,880; May 1.
Mayflower. For Cartons for Butter. Menasha Printing and Carton Company. 25,885; May 1.
Normedal. For Wrapper for Toilet Paper Rolls. Northern Paper Mills. 25,900; May 1.
Nyanza. For Toilet Paper. National Paper Products Company. 25,887; May 1.
P-B. For Soap Flakes. Prouty-Bowler Soap Co. 25,902; May 1.
Percy Pierce Package. For Cartons Containing Ice Cream. P. Pierce. 25,901; May 1.
Piute. For Toilet Tissue Paper. National Paper Products Company. 25,889; May 1.
San Marco. For Macaroni. Roman Macaroni Co. 25,904; May 1.
Select Brand. For Cartons for Butter. Menasha Printing and Carton Company. 25,886; May 1.
Skookum Brand. For Tin Cans Containing Shrimp. Biloxi Packing and Trading Company. 25,871; May 1.
Southland. For Toilet Tissue Paper. National Paper Products Co. 25,892; May 1.
Supergloss. For Auto and Furniture Polish. Realneed Products Co. 25,903; May 1.
Travelers. For Dried Raisins. A. M. Biddle. 25,870; May 1.
Westland. For Toilet Tissue Paper. National Paper Products Company. 25,898; May 1.
White Pearl Brand. For Cartons for Butter. Menasha Printing and Carton Company. 25,884; May 1.
Za-Rex. For Bottles Containing a Fruit Sirup for Making Beverages. Za-Rex Food Products Inc. 25,905; May 1.

ALPHABETICAL LIST OF PRINTS.

Better White Duck Clothing. For White Duck Clothing. James E. Richards Company. 6,681; May 1.
Comet Rice. For Rice. Seaboard Rice Milling Company. 6,684–7; May 1.
Get It Now. For Germicidal Cleansing and Polishing Materials. Cleveland Chemical Corporation. 6,676; May 1.
Monarch Coffee. For Coffee, Reid, Murdoch & Co. 6,679; May 1.
Monarch. For Tea, Coffee, and Cocoa. Reid, Murdoch & Co. 6,678; May 1.
Monarch Quality. For Groceries. Reid, Murdoch & Co. 6,680; May 1.
Monarch Tea. For Tea. Reid, Murdoch & Co. 6,677; May 1.
Sport Trousers. For White Duck Clothing. James E. Richards Company. 6,682; May 1.
The Beauty. For Gas Ranges. Geo. D. Roper Corporation. 6,683; May 1.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Addressing machinery and equipment and supplies therefor. Elliott Company. 172,642; May 1.
Agricultural tools and connecting them to tractors or other sources of draft power. Devices for carrying. Moline Plow Company. 176,202; May 1.
Aluminum and aluminum alloys. Aluminium-Industrie-Aktien-Gesellschaft. 173,291; May 1.
Aluminum and aluminum alloys, Crude and prepared. Aluminium - Industrie - Aktien - Gesellschaft. 174,875; May 1.
Anæsthetic cream. Parke, Davis & Company. 174,632; May 1.
Automobile and truck bodies, cabs, motor busses, etc. Continental Car Company of America. 171,203; May 1.
Automobile bumpers. New York, Wire & Spring Company. 173,717; May 1.
Automobiles. Stephens Motor Car Company. 175,572; May 1.
Balances and weighing scales. Christian Becker, Inc. 175,597; May 1.
Balls and footballs, Golf. Martins Birmingham Limited. 173,972; May 1.
Balls, Golf. H. Sparrius. 174,534; May 1.
Balls, Golf. H. Sparrius. 174,537. May 1.
Bathing caps. R. F. Graisen. 164,757; May 1.
Bearings and parts thereof, Roller. Timken Roller Bearing Company. 175,278; May 1.
Beverage, Grape. Nu Grape Company of America. 176,276; May 1.
Beverage sold as a soft drink. W. H. Gunckel. 159,700; May 1.
Beverages sold as soft drinks and sirups for preparing same. Garrett and Co. 174,077; May 1.
Bloomers. W. A. Goldsmith. 151,987; May 1.
Bolts, locks and bolts, steel mortise, and rim locks, etc., Cremorne and espagnolette. Société P. & A. Picard. 158,583; May 1.
Books and comic section in daily newspapers. Universal Feature and Specialty Company. 150,833; May 1.
Brake compound. Olsen-Moller Manufacturing Company. 172,804; May 1.
Brass and iron cleaners. Bird-Archer Company. 158,595; May 1.
Bread. National Bakeries, Inc. 159,763; May 1.
Bread. Ward Baking Company. 171,436; May 1.
Bread, biscuits, cake, cookies, etc. M. D. Coulter. 173,180. May 1.
Bread, cake, pies, canned puddings, etc. Friend Brothers. 167,518; May 1.
Breads, cakes, and pastries. C. A. Franke. 170,762; May 1.
Brick, fire-brick cement, fire clay, and tile, Fire. A. P. Green Fire Brick Co. 173,486–9; May 1.
Building materials. St. Anonyme du Fibrociment et des Revetements Elo. 159,539; May 1.
Cake and pastry mixture. S. W. Noggle. 169,774; May 1.
Cake, Fruit. L. Simon. 169,987; May 1.
Candies. King Candy Co. 169,551; May 1.
Candy. Chocolate Products Company. 171,686; May 1.
Candy. George Close Co. 170,562; May 1.
Candy. U. R. S. Candy Stores, Inc. 162,594; May 1.
Candy. Wilton-Plantz Candy Company. 154,540; May 1.
Candy and confections. E. McKnight. 171,761; May 1.
Candy, Chocolate. Maatschappij tot Exploitatie van Rademaker's Korimklijke Cacao en Chocolade-fabrieken. 166,533; May 1.
Canned beans and tomatoes, etc., chili sauce, and catchup put up in containers. American Cone and Pretzel Company. 171,398; May 1.
Canned fruits and vegetables. McHenry Cannery. 171,937; May 1.
Canned fruits and vegetables. H. M. Newhall & Co. 169,772; May 1.
Canned fruits, fruit salad, and vegetables, and dried fruit. F. G. Wool Packing Company. 172,071; May 1.
Canned peaches, tomatoes, and sweet potatoes. American Cone and Pretzel Company. 171,397; May 1.
Canned salmon. H. Conniff. 170,566; May 1.
Canned vegetables, canned milk, catchup, flavoring extracts for foods, and mincemeat. D. S. Williams. 161,077; May 1.
Caps for men, boys, and children. National Cap Mfg. Company. 159,522; May 1.
Carving, edge, and coopers' tools and the like. Mack Tool Company. 174,523; May 1.
Castings and forgings, Metal. Henry & Allen. 175,791; May 1.
Cheese. J. Kirkpatrick. 172,599; May 1.
Chemical, medical, and pharmaceutical preparations for removing hair from the human body. R. Rose. 173,299; May 1.
Cheat, Cedar. Ed. Roos Company of Forest Park. 173,675; May 1.
Chickens, Live. Loup Valley Hatchery. 170,146; May 1.
Clasps for arm bands. Ansonia O & C Co. 165,053; May 1.
Cleaning compound. Reeder-Stage Chemical Company. 170,954; May 1.
Coats and suits, Men's and young men's. Kushner & Gillman, Inc. 167,134; May 1.
Coffee. Dwinell-Wright Company. 154,793; May 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Compound for cleaning hands and the like. Whitehouse Products Co. 172,700; May 1.
Confections, Honey and nut. A. De Vito. 167,867; May 1.
Cookies. Iten Biscuit Co. 171,923; May 1.
Costumer. Nightrack Manufacturing Company. 174,185; May 1.
Cotton piece goods. American Bleached Goods Company, Inc. 176,522; May 1.
Cotton piece goods. Arnold, Cheney & Co. 176,780; May 1.
Cotton piece goods. Clafilus Incorporated. 176,668; May 1.
Cotton piece goods. Doptoglou Bros. of New York. 177,037; May 1.
Cotton pile cloth in the piece. John S. Boyd Company. 157,827; May 1.
Couplings, pipes, tubes, and casings, Metal. National Tube Company. 175,882; May 1.
Cracker products and Dutch-style cookies. W. R. Montague Company. 171,098; May 1.
Cretonnes in the piece, valances, and curtains. Montague & Co. 177,015; May 1.
Cushions, Hair carpet and hair seat. American Hair Felt Co. 173,066; May 1.
Deodorant and disinfectant. U. S. Sanitary Specialties Corporation. 173,544; May 1.
Doughnut, Chocolate-coated. Miller-Caldan Company. 171,228; May 1.
Dresses, Young ladies'. J. Philip Rosenbloom Co. 169,457; May 1.
Drink, Soft. R. G. Stoehr. 174,491; May 1.
Eggs and butter. Willner & Malman. 173,220; May 1.
Engines, Compressed-air self-starters for internal-combustion. Ida Starter Limited. 171,128; May 1.
Engines, Gaskets for internal-combustion. J. E. Gleason. 170,880; May 1.
Envelopes. Kovacs and Meszaros. 162,179; May 1.
Fabrics, Liquid for cleaning. Wilson-Imperial Company. 170,850; May 1.
Fabrics, Silk and silk-mixed. Cockcroft Silk Co. Inc. 177,594; May 1.
Feed, Calf meal, egg mash, etc., Poultry, scratch, chicken, hog, dairy, and horse. Thomas-Boyce Direct Feed Company. 165,895; May 1.
Feed, egg mash, and chicken and cattle fattener, Horse, hen, etc. Grain Belt Mills Company. 172,154; May 1.
Feed, Horse and mule. Sturges Company. 168,079; May 1.
Fish, Frozen. P. W. Petersen. 167,421; May 1.
Fishing lines. Newton Line Company. 173,663; May 1.
Fishing lines. Newton Line Company. 173,668; May 1.
Fishing lines. Newton Line Company Incorporated. 174,747; May 1.
Flavoring extracts, Food-. Julius Marcus Company. 169,313; May 1.
Flour, Wheat. Black Bros. Flour Mills. 171,609; May 1.
Flour, Wheat. J. W. Denio Milling Company. 164,025; May 1.
Flour, Wheat. D. Hecht. 165,871; May 1.
Flour, Wheat. Kehlor Flour Mills Company. 171,927; May 1.
Flour, Wheat. Parham-Lindsay Grocery Co. 162,048; May 1.
Flour, Wheat. Frank R. Prina Corporation. 149,352; May 1.
Foods, Poultry. W. B. Black. 170,750; May 1.
Fruit juices, Nonalcoholic, maltless concentrated. California Citrus Fruit Juice Company. 176,163; May 1.
Fruits and fresh vegetables, Fresh deciduous. Idaho Evaporating Co. 169,761; May 1.
Fruits, fresh vegetables, canned fruits and vegetables and fruit jam, Fresh deciduous and citrous. Pleasant Grove Canning Co. 171,952; May 1.
Gaming devices. J. H. Ewing. 174,360; May 1.
Garment composed of combination brassière and chemise. Vanity Fair Silk Mills. 166,420; May 1.
Hair nets. Fulghum & Company. 176,613–4; May 1.
Hair nets. J. Garfinkle. 177,373; May 1.
Hair nets. A. A. Julin. 159,509; May 1.
Hats and caps. Perfection Cap Company. 172,349; May 1.
Hats, Ladies' trimmed and tailored. London & Greenstein, Inc. 176,411. May 1.
Hen and chick scratch, laying mash, dairy and horse feed. Owensboro Milling Co. 170,895; May 1.
Hosiery. Burson Knitting Company. 165,521; May 1.
Hosiery and underwear. S. Quint. 164,667; May 1.
Ice cream, sweetened and plain condensed milk, ice-cream mixes, etc. Dewart Milk Prod. Co. Inc. 169,849; May 1.
Ice-making and refrigerating machinery and the several parts thereof. Triumph Electric Co. 167,210; May 1.
Insecticide. J. L. Hopkins & Co. 172,381; May 1.
Insulating felt for use in making built-up roofing, Heat-. Johns-Manville, Incorporated. 169,765; May 1.
Kerosene, gasoline, lubricating oils, and greases. Western Reserve Oil Company. 171,479; May 1.
Kindergarten materials. Nourse Company. 164,822; May 1.
Knit underwear, Ladies'. California Underwear and Hosiery Mills. 169,619; May 1.
Knitted outer garments. Halpern & Kalb, Inc. 170,186; May 1.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 175,377–8; May 1.
Knives, safety-razor blades, glass cutters, Butcher and kitchen. H. C. Hart. 174,738; May 1.
Lard, vinegar, olives, pickles, sauerkraut, etc. C. Percevai. 169,819; May 1.
Lingerie gymnazium bloomers, and underwear. Jean Garment Company. 165,382; May 1.
Liniments. Edgar Chemical Company. 157,417; May 1.
Lumber. Geo. M. Spiegle & Co. 172,018; May 1.
Macaroni, spaghetti, Macaroni shells, vermicelli, etc. Kansas City Macaroni & Importing Co. 171,325; May 1.
Magazine, Monthly. J. L. Careskey. 162,918; May 1.
Magazine, Monthly. Holding Committee for Educational and Philanthropic Work. 161,315; May 1.
Magazine, Periodical monthly. Mivoe Home Journal Co. 172,609; May 1.
Magazine, Weekly. Penton Publishing Company. 171,281; May 1.
Magazines and the like, Departments or sections of and articles in. R. H. Ranger. 169,519; May 1.
Magazines, Bimonthly. Marshall Field & Company. 161,681; May 1.
Malt extract, Barley-. J. Ruppert. 173,213; May 1.
Meats, dried beef, sausage, ham, bacon, lard, and butter, Smoked. Iowa Packing Co. 160,290; May 1.
Medical compound, Cathartic. Illinois Medicine Co. 168,313; May 1.
Medicinal compound and salve. Blackburn Products Co. 167,595; May 1.
Medicine use in the treatment of piles and flatulency. D. Pistoia. 173,298; May 1.
Metal and bars, sheets, strips, etc., Special-process. J. Briggs and Sons Co. 171,827; May 1.
Milk, butter, eggs, and cheese, Raw and pasteurized. H. N. Brawner, Jr. 170,739; May 1.
Monuments. Burton Preston & Co. 157,002; May 1.
Mouth wash and gargle, Antiseptic. Parke, Davis & Company. 174,633; May 1.
Nightgowns. L. H. Clark Mfg. Co. 169,891; May 1.
Oil, Edible corn. Corn Products Refining Co. 171,487; May 1.
Oil, Motor. Henry H. Cross Company. 175,189; May 1.
Oils, Lubricating. Columbia Oil Company. 170,474; May 1.
Oils, Olive and salad. Strohmeyer & Arpe Company. 151,237; May 1.
Ointment for rheumatism. J. E. Stavros. 169,936; May 1.
Ointment for treatment of rheumatism, sprains, etc. H. C. Fronk. 173,281; May 1.
Ophthalmic mountings, and parts thereof. Stevens & Company. 174,867; May 1.
Oranges, grapefruit, and citrous fruit. J. M. Knight. 168,848; May 1.
Overalls. Kaynee Company. 126,222; May 1.
Paint. A. C. Horn Company. 176,738; May 1.
Paintbrushes. W. T. Grant Company. 173,326; May 1.
Paper drinking straws. A. Herz. 176,182; May 1.
Paper holder, Memorandum-. Bliss Company. 176,321; May 1.
Paper treated, etc., for making cigarettes. Robert Fletcher & Son, Limited. 173,412; May 1.
Paper, Wall. Robert Griffin Company. 161,250; May 1.
Papeteries, writing and typewriting tablets, writing paper, and mailing envelopes. White & Wyckoff Manufacturing Company. 175,750; May 1.
Partitions, Portable sectional. Unit Construction Company. 152,048–9; May 1.
Pedal covers. Durkee-Atwood Co. 174,612; May 1.
Pencils. Joseph Dixon Crucible Company. 171,986. May 1.
Pens. C. Howard Hunt Pen Company. 176,128; May 1.
Pictures or plot tino-types, Colored. Wallace Nutting, Incorporated. 170,831; May 1.
Pillows and cushions. Sunset Feather Co. 172,911; May 1.
Pins and hairpins of nonprecious metal and hand sewing needles. Kirby, Beard & Co. 172,228; May 1.
Pins and hairpins of nonprecious metal. Kirby, Beard & Co. 172,229. May 1.
Pins of nonprecious metal. Kirby, Beard & Co. 172,230; May 1.
Pins and hairpins and hand sewing needles. Kirby, Beard & Co. 172,681; May 1.
Plaster for use in forming a vulcanizing pad. Murdock Vulcanizing Co. 171,181; May 1.
Plasters, Poultice. H. W. Bouck. 160,390; May 1.
Polishing composition, Lime. A. P. Munning & Co. 166,242; May 1.
Poultry and eggs, Live. A. H. Shaw. 157,855; May 1.
Poultry and lard, Dressed. Evansville Packing Company. 171,531; May 1.
Powders and creams, perfumes, etc., Face. V. Vivaudou, Inc. 174,645; May 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Preparation for rheumatism and pains, cuts, etc. G. Sciarina. 172,688; May 1.
Preparation for treatment of cholelithiasis and allied conditions. Parke, Davis & Company. 174,634; May 1.
Preparation made from rice. Vita Rice Products Co. 155,841; May 1.
Publication, Monthly. R. F. Couch. 175,544; May 1.
Publication, Monthly. M. Wile & Co. 173,547; May 1.
Puzzles. T. C. Washington. 168,342; May 1.
Radio apparatus and parts therefor, Transformers used in. American Transformer Company. 175,289; May 1.
Raisins. M. Mostovoy. 157,770; May 1.
Raisins, Chocolate-coated. S. S. Lee. 164,649; May 1.
Rattles, Hand. I. J. Halpern. 174,961; May 1.
Razor-blade-stropping holders. Sure Edge Stropper Company. 174,187; May 1.
Resins, coal, coke, rubber, etc. Tetralin-Gesellschaft mit beschränkter Haftung. 142,047; May 1.
Rompers and play garments, Children's. Kaynee Company. 126,221; May 1.
Roof-edging device. F. W. Hennessy. 174,834; May 1.
Rubber aprons. Oberndorfer Company. 164,185; May 1.
Rubber heels for shoes. Braman & Parrott. 175,332; May 1.
Rubber treads. G. Valiquette. 169,339; May 1.
Saws. Southern Saw Works. 159,538. May 1.
Seeds, Field, garden, and farm. Aggeler & Musser Seed Co. 168,743; May 1.
Seeds, Garden and flower. L. D. Waller Seed Co. 167,542; May 1.
Shades, Window. H. M. Brown. 172,506; May 1.
Shellac, glue, and paste, Gasket. B. Levitt. 173,290; May 1.
Sheet metal, Machines for cutting. Andrew C. Campbell, Incorporated. 173,912; May 1.
Shirts. S & S Shirt Company. 147,217; May 1.
Shirts, underwear, etc., Men's and boys' work, dress, and sport. Bob & Baskind. 168,572; May 1.
Shoes. J. P. Hartray Shoe Co. 173,491; May 1.
Shoes. Portage Shoe Mfg. Company. 173,530; May 1.
Silk and wool crêpe in the piece. M. C. Hoffman & Co. 176,546; May 1.
Silk, cotton, and woolen piece goods and mixtures of the same. Valentine & Bunker. 177,805; May 1.
Silk fabric, All-. A. S. Rosenthal Co. 176,502; May 1.
Silk piece goods. Empire Silk Company. 177,368; May 1.
Silk piece goods. H. R. Mallinson & Co. Inc. 177,092; May 1.
Sirup used in making beverages, Dextrinous. American Burtonizing Company and Wallerstein Laboratories. 160,178; May 1.
Soap. Alberto Vales Company. 174,378; May 1.
Soap, Shaving. O. H. v. Mayenburg. 156,997; May 1.
Soap, Toilet. Swine Breeders Pure Serum Company. 174,869; May 1.
Soap, Toilet. Yardley & Co. 174,377; May 1.
Steel, Structural. Bethlehem Steel Company. 173,738; May 1.
Suits and coats, Ladies' sport. Parker-Bridget Company. 159,720; May 1.
Suits and overcoats, Men's and boys'. The Fair. 152,124; May 1.
Suits and topcoats, Men's and young men's. Mintz & Friedman. 169,455; May 1.
Suits and topcoats, Men's and young men's. Stern Clothing Co. 167,851; May 1.
Suits, negligee shirts, and underwear, Boys' outer. Playboy Wearables, Inc. 168,690; May 1.
Sweaters and scarfs. Kaufman-Rohrlich Knitting Mills, Inc. 169,308; May 1.
Tables, Metal tops for kitchen and other. American Range & Fonndry Company. 173,550; May 1.
Tables, Take-down. G. E. Tomlinson. 173,943; May 1.
Tags. Dennison Manufacturing Co. 176,330; May 1.
Tappets and poppet valves for explosion engines. Wilcox Motor Parts & Manufacturing Company. 173,546; May 1.
Tennis tape reels, baseballs, baseball gloves and mits, bats, etc Charles M. Ghriskey's Sons. 171,456; May 1.
Thermometers. Wilder-Pike Thermometer Company. 176,702; May 1.
Tires, Hungarian Rubber Goods Factory Limited. 172,332; May 1.
Tires and tubes, Rubber. National Tire & Rubber Company. 142,802; May 1.
Tires, Rubber. Fisk Rubber Company. 172,416; May 1.
Tops, Spinning. Sipp Novelty Co. Inc. 175,029; May 1.
Toys, Wheeled. J. T. Casey. 170,968; May 1.
Trucks and automobiles, Motor. Graham Brothers. 172,272; May 1.
Umbrellas. Kortenbach & Rauh. 162,556; May 1.
Varnishes. Edward Smith & Company. 177,629; May 1.
Waists and hosiery. House of Byer. 168,614; May 1.
Wheels, Traction. Buckeye Traction Ditcher Co. 175,843; May 1.
White, Paris. Taintor Company. 176,314; May 1.
Wool. New Zealand Refrigerating Company, Limited. 161,373; May 1.
Wool. New Zealand Refrigerating Company, Limited. 161,378; May 1.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abraham, Herbert, New York, N. Y., assignor to The Ruberoid Company. Shingle strip. 1,453,373; May 1
Accioly, Francisco de M., Rio de Janeiro, Brazil. Process and apparatus for the manufacture of nonpotable alcoholic liquid. 1,453,374; May 1.
Adams, Harry A., assignor to Allith-Prouty Company, Danville, Ill. Door-opening mechanism. 1,453,778; May 1.
Addressograph Company. (See Jackson, James P., assignor.)
Adland, Victor E., and L. H. Kamper, assignors to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Dry-room tumbler. 1,453,260; May 1.
Advance-Rumely Company. (See Ross, James, assignor.)
Ady, Jacob A., West Concord, Minn. Air-power water pump. 1,453,486; May 1.
Aero Pulverizer Company. (See Hirsch, Paul A., assignor.)
Affel, Herman A. (See Espenschied L., and Affel.)
Ahearn, John J., Palmer, N. Y. Ruler attachment. 1,453,900; May 1.
Albert, Samuel, New York, N. Y. Vanity case. 1,453,563; May 1.
Alexander, Albert M., Valley Mills, Tex. Foot accelerator. 1,453,651; May 1.
Alexander, John R., New Albany, Ind., assignor of one-half to T. Alexander, Toledo, Ohio. Vehicle signal. 1,453,428; May 1.
Alexander, Thomas. (See Alexander, John R., assignor.)
Allen, Edward E., Rutland, and P. M. M. Phelps, Fair Haven, Vt. Coffin. Des. 62,297; May 1.
Allen, William H., Cleveland, Ohio. Mausoleum. 1,453,375; May 1.
Allith-Prouty Company. (See Adams, Harry A., assignor.)
Altenburg, Arthur C., Milwaukee, Wis. Shirt sleeve with detachable cuff. 1,453,779; May 1.
Altgelt, Herman E., New Braunfels, Tex., assignor to Oliver Chilled Plow Works, South Bend, Ind. Power-lift mechanism for plows. 1,453,537; May 1.
Althoff, Walter, assignor to Geneva Cutlery Corporation, Geneva, N. Y. Adapter for safety razors. 1,453,487; May 1.
Aluminum Company of America. (See Edwards, Junius D., assignor.)
American Can Company. (See Widell, M. E., and Jahr, assignors.)
American Cystoscope Makers, Inc. (See Wappler, Reinhold H., assignor.)
American Hardware Corporation. (See Teich, Ernest L., assignor.)
American Liquid Meter Company. (See Babos, Lacey, assignor.)
American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
American Manganese Steel Company. (See Vanderhoef, Ellison E., assignor.)
American Multigraph Company, The. (See Chisholm, Clifton, assignor.
American Platinum Works. (See Gaschke, George, assignor.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
American Telephone and Telegraph Company. (See Blackwell, Otto B., assignor.)
American Telephone and Telegraph Company. (See Espenschied, L., and Affel, assignors.)
American Telephone and Telegraph Company. (See Hoyt, Ray S., assignor.)
Ames, Joseph H., Philadelphia, Pa. Highway and similar foundation. 1,453,261; May 1.
Anchor Cap & Closure Corporation. (See Luhrmann, George W., assignor.)
Anchor Cap & Closure Corporation. (See Ramsey, George, assignor.)
Andersen, Christian S., Dwight, Ill. Work support. 1,453,901; May 1.
Andrews, Edward F., Maywood, Ill. Hydrometer. 1,453,488; May 1.
Anfindsen, Christian B., Charlerol, Pa. Kick-back car dump. 1,453,331; May 1.
Angelus, Louis, New York, N. Y. Steaming cabinet. 1,453,967; May 1.
Arkwright, Delaney, jr., Newton Falls, Ohio. Burner. 1,453,780; May 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,577; May 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,578; May 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,579; May 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,580; May. 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,581; May 1.
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,453,582; May 1.
Arnold, Homer L., Arcata, Calif. Direction indicator. 1,453,902; May 1.
Ash, Charles S., assignor to California Packing Corporation, San Francisco, Calif. Peeling fruits and vegetables. 1,453,781; May 1.
Ask, George M., Corning, Calif. Power-transmitting mechanism. 1,453,903; May 1.
Askin, Morris W., Washington, D. C. Toilet case. 1,453,332; May 1.
Atlas Powder Company. (See Grotta, Bennett, assignor.)
Atlas Powder Company. (See Long, Ralph A., assignor.)
Auble Die and Stamping Company. (See Auble, James H., and J. L., assignors.)
Auble, James H. and J. L., assignors to The Auble Die and Stamping Company, Cincinnati, Ohio. Method and apparatus for forming sheet-metal articles. 1,453,652; May 1.
Auble, James L. (See Auble, James H., and J. L.)
Auchstetter, William. (See Bright, Albert E., assignor.)
Autrey, Herbert S. (See Balazs, R. J., and Autrey.)
Babos, Lacey, assignor to American Liquid Meter Company, Portland, Oreg. Fractional counter. 1,453,538; May 1.
Baird, Cassius M. C., Chicago, Ill. Hose construction. 1,453,823; May 1.
Balazs, Rudolph J. and H. S. Autrey, Cleveland, Ohio, assignors to Houston Pneumatic Puncture Proof Wheel Company, Houston, Tex. Cushioned vehicle wheel. 1,453,614; May 1.
Baldwin Locomotive Works, The. (See Sykes, J. P., and Stover, assignors.)
Ball, Albert P., Royal Oak, and F. Zenker, Highland Park, assignors to Square D Company, Detroit, Mich. Electrical switch. 1,453,696; May 1.
Banghart, George E., Olney, Ill. Hand embroidery needle. 1,453,262; May 1.
Bar Zim Toy Manufacturing Co. Inc. (See Bartholomae, William, assignor.)
Barger, William B., et al. (See Wood, Joseph C., assignor.)
Bargsley, Sam L. (See Heckman, James, assignor.)
Barker, Albert G. (See Dieterle, Edward P., assignor.)
Bartholomae, William, assignor to Bar Zim Toy Manufacturing Co. Inc., New York, N. Y. Musical toy. 1,453,968; May 1.
Barz, Robert H., Stockton, Calif. Headlight lens. 1,453,539; May 1.
Bass, Rubin, Brooklyn, N. Y. Presser for velour, bolivia, etc. 1,453,697; May 1.
Bates, Arthur, and W. T. Minett, Leicester, England, assignors to United Shoe Machinery Corporation, Patterson, N. J. Pulling-over machine. 1,453,263; May 1.
Battenfeld, Julius J., et al. (See Misner, Edgar D., assignor.)
Baty, Ernest J. (See Cox, K., Kerr, and Baty.)
Bauer, Charles, New York, N. Y. Nonbreakable refuse can. 1,453,824; May 1.
Bauman, Julius C., Miles, Tex. Animal trap. 1,453,615; May 1.
Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company. System of ventilation. 1,453,333; May 1.
Baxter, Kenneth S., assignor to Sheet Steel Products Company, Michigan City, Ind. Vehicle sash door. 1,453,825; May 1.

Bay State Optical Company. (See McKinstry, G. W., and Siddall, assignors.)
Beach, Fitch H., and F. S., Charlotte, Mich. Bucket. 1,453,540; May 1.
Beach, Fred S. (See Beach, Fitch H. and F. S.)
Beach, W. S. (See Farnsworth, A. J., and St. Claire, assignors.)
Beaton, Angus, Medicine Hat, Alberta, Canada. Animal poke. 1,453,324; May 1.
Beaujon, Charles A., Canaan, Conn. Sheet-metal spool. 1,453,826; May 1.
Beck, Erasmus W., Griffin, Ga. Pneumatic pump. 1,453,904; May 1.
Beck, Frank H., Larchmont, N. Y. Pencil-display holder. Des. 62,269; May 1.
Bedford, Frederick, Stratton, Nebr. Lamp-reflector attachment. 1,453,739; May 1.
Beggs, Henry C., Fort Morgan, Colo. Head gate. 1,453,429; May 1.
Beisel, William J., Port Richmond, N. Y. Spring wheel. 1,453,541; May 1.
Beisel, William J., Port Richmand, N. Y. Spring wheel. 1,453,542; May 1.
Bell, John T., Redford, Mich. Tractor appliance for trucks. 1,453,782; May 1.
Belluche, Frank R. (See Upham, B. F., Belluche, and Horniz.)
Benedek, Victor, Chicago, Ill. Coffeepot. 1,453,489; May 1.
Benenato, Stella, Phoenix, Ariz. Envelope. 1,453,616; May 1.
Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Phillips, assignors.)
Benjamin, Reuben B., Chicago, and P. D. Phillips, Elmhurst, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. 1,453,827; May 1.
Bennett, William H., Charlotte, N. C. Portable motor-driven meat saw. 1,453,335; May 1.
Benson, Mary D., New York, N. Y. Combined bib and apron or similar article. Des. 62,270; May 1.
Berg, Alfred J. (See Clark, Ewen A., assignor.)
Berg, Fred C., assignor to E. P. Flaugher, Coalinga, Calif. Pump. 1,453,653; May 1.
Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Scale-platform lifting mechanism. 1,453,376; May 1.
Bergström, Johan E., Christiania, Norway, assignor to G. Stahle, Stockholm, Sweden. Milling machine. 1,453,654; May 1.
Berman, Paul, Wilmington, Del. Ash sifter. 1,453,583; May 1.
Bernac, Raoul, Bordeaux, France. Pneumatic jack. 1,454,010; May 1.
Berry, Harold R., Brooklyn, N. Y., assignor to Petroleum Research and By-Products Company, Wilmington, Del. Gas making. 1,453,655; May 1.
Bessom, Earl A., assignor to The Wheeler-Schebler Carburetor Co., Indianapolis, Ind. Carburetor. 1,453,490; May 1.
Bierschbach, Leander, Mount Pleasant, Mich. Safety attachment for tractors. 1,453,264; May 1.
Bird, Charles E., Minneapolis, Minn. Tractor. 1,453,265; May 1.
Bishop, Samuel H., and J. Q. Slye, Washington, D. C. Support for moth-repellent holders. Re15,588; May 1.
Blackman, Mabel, assignor to A. S. Joseph, New York, N. Y. Overshoe for horses. 1,453,905; May 1.
Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. System for attaining uniform attenuation. 1,454,011; May 1.
Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. Voice-operated relay. 1,453,430; May 1.
Blankenburg, Johannes, Berlin, Germany, assignor, by mesne assignments, to Naamlooze Vennootschap Finanzieele Maatschapij "Driebergen," Amsterdam, Netherlands. Device for amplifying telephone currents and other electric oscillations. 1,453,584; May 1.
Blosser, John E. (See Tong, J. T., and Blosser.)
Blount, Arlington A., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Coiling machine. 1,453,431; May 1.
Blount, Benjamin H., Houston, Tex. Ice receptacle. 1,453,266; May 1.
Bodnar, Frank R., Bridgeport, Conn. Window-sash lock. 1,453,698; May 1.
Boker Cutlery & Hardware Company. (See Redman, Charles H., assignor.)
Bolkesjö, Leif T., Notodden, Norway. Turning indicator for automobiles. 1,454,012; May 1.
Bolles, Robert O., et al., trustees. (See Snodgrass, C. W., and Whitmoyer, assignors.)
Bond Manufacturing Corporation. (See Bond, William G., assignor.)
Bond, William G., assignor to Bond Manufacturing Corporation, Wilmington, Del. Process of and apparatus for manufacturing articles of comminuted cork. 1,453,617; May 1.
Bonhôte, Gérald. (See de Montmollin, G., Spieler, and Bonhôte.)
Bonnell, Dorothy, Winchester, Ky. Gaseous-fuel mixer. 1,453,656; May 1.
Bonser, Fred, Colorado Springs, Colo. Grasping instrument. 1,453,543; May 1.
Boone Heater Corporation. (See Boone, Robert, assignor.)
Boone, Robert, Asbury Park, N. J., assignor, by mesne assignments, to Boone Heater Corporation, New York, N. Y. Lighting device for gas. 1,453,906; May 1.
Boots, Edgar W. (See Tolla, T., and Boots.)
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Glove and making the same. 1,454,019; May 1.
Boulton, Charles W., Waltham, Mass. Chaplet. 1,454,013; May 1.
Bovender, Alley C., Northwilkesboro, N. C. Motor-vehicle attachment. 1,453,618; May 1.
Bowes, Walter H., Stamford, Conn. Yieldable support for rollers of postmarking and stamp-canceling machines. 1,453,783; May 1.
Boyce, A. Earl, et al. (See Donaldson, Elizabeth C., assignor.)
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Bozarth, William H., Vineland, N. J. Oil burner for furnaces. 1,453,907; May 1.
Bozarth, William H., Vineland, N. J. Oil burner for stoves. 1,453,908; May 1.
Bradford, James L., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Electron-emitting cathode and making the same. 1,453,267; May 1.
Bradner, Hosea T. (See Lees, Ernest J., assignor.)
Bremer, Hugo E., Neheim, Westphalia, Germany. Steering gear for motor vehicles. 1,453,432; May 1.
Brenk, Ernest L., Cicero, Ill. Externally-operable inclosed safety-type switch. 1,453,740; May 1.
Briais, Henry E., New York, N. Y. Differential for motor vehicles. 1,453,909; May 1.
Bridgeford, John J. (See van de Pol, Alfons H., assignor.)
Bridgeport Chain Company, The. (See Hotchkiss, Howard F., assignor.)
Bright, Albert E., assignor of one-half to W. Auchstetter, Idagrove, Iowa. Wagon attachment. 1,453,910. May 1.
Brodeur, Maurice, Montreal, Quebec, Canada. Apparatus for transmitting words. 1,453,741; May 1.
Brooks, Winfred M., South Orange, N. J. Sealing means. 1,453,268; May 1.
Brophy, Charles B. (See Parsons, Theophilus, assignor.)
Brophy, Oscar, Philadelphia, Pa. Method for separating magnetic materials. 1,453,699; May 1.
Broskie, Charles C., Stone, Ky. Phonograph diaphragm and sound box. 1,453,336; May 1.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,453,828; May 1.
Brown, Charles A. (See Luce, Grafton E., assignor.)
Brown, Harold D., New York, N. Y. Acoustic device. 1,453,969; May 1.
Brown, Walter H., Pasadena, Calif. Low-pressure alarm for pneumatic tires. 1,453,657; May 1.
Browne, Norton, Chelan, Wash. Automobile signal. 1,453,911; May 1.
Browning, Fletcher W., Kingsport, Tenn. Abrading machine. 1,453,742; May 1.
Bruce, William J. W., Cheshire, England. Drain trap. 1,453,743; May 1.
Bruder, Albert A., Holly, Mich. Furnace or stove. 1,453,544; May 1.
Brunelli, James, Brooklyn, N. Y. Cloth pressing and steaming device. 1,453,433; May 1.
Buck, Clarence M. (See Flick, H., and Buck.)
Buckham, George T. (See Dawson, A. T., Buckham, and Haskell.)
Buckley, McKim C., and H. Kendrick, Franklin, Pa. Fuel mixer. 1,453,912; May 1.
Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)
Budd, Lester E., Philadelphia, Pa. Furnace-door arch. 1,453,434; May 1.
Buente, Charles F., Pittsburgh, Pa. Concrete-pipe machine. 1,453,269; May 1.
Buettner, Charles H., Cincinnati, Ohio. Method and apparatus for nitrogen fixation. 1,453,435; May 1.
Buffalo Foundry & Machine Co. (See Engel, Godfrey, sr., assignor.)
Buffalo Specialty Company. (See Cabana, Charles, assignor.)
Bumgardner, Frank B., Fort Smith, Ark. Invalid bed. 1,453,970; May 1.
Burdick, Arthur G., New London, Conn. Cylinder-head guide stud and removing key. 1,453,913; May 1.
Burnham, Edward M., San Francisco, Calif. Holder for wheel locks. 1,453,436; May 1.
Burnham, William E., deceased, Minneapolis, Minn.; J. E. Byrnham, special administratrix. Rinsing holder for dishes. 1,453,437; May 1.
Burton, Charles S., Oak Park, Ill. Primer for internal-combustion engines. 1,453,270; May 1.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Lubricated roller side bearing. 1,453,700; May 1.
Butterfield, Edward H., and F. D. Otterbein, assignors to T. Harvey, jr., Middletown, Ohio. Signal and recording meter for paper-making machinery. 1,453,438; May 1.

Button, Clarence E. (See Button, Edwin W. and C. E.)
Button, Edwin W. and C. E., Corning, N. Y. Automatic cuspidor. 1,453,454; May 1.
Buzzo, Joseph T. (See Reese, C. C., Buzzo, and Woodford.)
Byers, James C., Hickory, N. C. Cotton cleaning and conditioning machine. 1,453,744; May 1.
Byrnham, Julia E., special administratrix. (See Byrnham, William E.)
Cabana, Charles, assignor to Buffalo Specialty Company, Buffalo, N. Y. Connector for mops and the like. 1,453,745; May 1.
Cable, John H., Montclair, N. J. Flush-tank valve. 1,453,914; May 1.
Canale, Mario A., and R. Frias, Buenos Aires, Argentina. Device utilizing the trepidations of vehicles. 1,453,972; May 1.
California Packing Corporation. (See Ash, Charles S., assignor.)
Calkins, Elizabeth, St. Joseph, Mo. Hair curler. 1,453,971; May 1.
Calleson, Amos, Brooklyn, N. Y. Can-heading machine. 1,453,619; May 1.
Camp, George W., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Rheostat. 1,453,829; May 1.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-operating mechanism. 1,453,701; May 1.
Campbell, Henry C., New York, N. Y. Map-drawing machine. 1,453,377; May 1.
Canada Carbide Company Limited. (See King, Jesse C., assignor.)
Caplan, Harry, Detroit, Mich. Fender bracket. 1,453,271; May 1.
Captan Glass Company. (See Kucera, Peter, assignor.)
Carey, William H., Wisconsin Rapids, Wis. Making concrete blocks. 1,453,746; May 1.
Carey, William H., Wisconsin Rapids, Wis. Machine for making concrete blocks. 1,453,747; May 1.
Carlson, Anthony E., Los Angeles, Calif. Stone-drilling machine. 1,453,620; May 1.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Curtain rod. 1,453,748; May 1.
Carmack, William, et al. (See Cowin, Irving R., assignor.)
Carr, Charles W., R. J. Dixon, and P. W. Conover, Ogden, Utah. Elevator-door lock. 1,453,915; May 1.
Carstens, George, Jersey City, assignor of one-fourth to H. E. Muller, Jersey City Heights, N. J. Universal conveyer chain. 1,453,702; May 1.
Cashmer, Jacob, Denver, Colo., assignor, by mesne assignments, to Universal Safety Washout Plug Company. Washout plug for boilers. 1,453,916; May 1.
Cederblom, Barnar, Youngstown, Ohio. Boiler. 1,453,703; May 1.
Cedillo, Nicasio, assignor to C. E. Reed, Houston, Tex. Recoil-operated firearm. 1,453,439; May 1.
Chambers, Paul E., Walsen, Colo. Rail-bending device. 1,453,917; May 1.
Champlin, Franklin J., Pittsfield, Mass., assignor to General Electric Company. Voltage-regulating system. 1,453,491; May 1.
Chappatte, Joseph E., Narberth, Pa. Tassel and pendant. 1,453,440; May 1.
Charter, James A., Chicago, Ill. Explosive Engine. 1,453,304; May 1.
Check, Joseph M., Wilkes-Barre, Pa. Hat protector. 1,453,862; May 1.
Cheetham, George A., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Excess-demand meter. 1,453,441; May 1.
Chicago Pneumatic Tool Company. (See Hoffman, Leon F., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago, Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
Chisholm, Clifton, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Address-printing machine. Re15,589; May 1.
Chisholm, Stanley L. (See Wilson, R. E., Parsons, and Chisholm.)
Choate, William E., Westerly, R. I., assignor, by mesne assignments, to Federal Finance Corporation. Marking machine. 1,453,442; May 1.
Christensen, Niels C., Salt Lake City, Utah. Apparatus for the dewatering, classification, and countercurrent washing of solid particles mixed with liquids. 1,453,749; May 1.
Christensen, Niels C., Salt Lake City, Utah. Apparatus for drying granular products. 1,453,750; May 1.
Cisney, Claud W. (See Pine, H. B., and Cisney.)
Clark, Ernest D., Worcester, Mass. Razor-stropping machine. 1,453,751; May 1.
Clark, Ewen A., Revere, Mass., assignor of one half to A. J. Berg, Kittery, Me. Means for salvaging vessels. 1,453,918; May 1.
Clark, Maurice E., Grenada, Miss. Film-waxing machine. 1,453,920; May 1.
Clarke, John H., London, England. Locking device for covers of portholes of ships or other openings. 1,453,919; May 1.
Cleghorn, Charles A., Woburn Sands, England. Self-sealing petrol tank or other container. 1,453,305; May 1.
Clifford, Sanna, Ossining, N. Y. Steam ring. 1,453,378; May 1.
Cline, Charles W., Augusta, Kans. Nut lock. 1,453,921; May 1.
Clough, George B., Meriden, Conn. Price indicator. 1,453,658; May 1.
Clutter, Le Roy P., Uniontown, Pa. Coupling device. 1,453,922; May 1.
Coakley, Henry, New York, N. Y. Airplane. 1,453,830; May 1.
Cochran, Wesley E., Cleveland, Ohio. Lighting fixture. 1,453,443; May 1.
Colgan, A. H., et al. (See Smith, William J., assignor.)
Collier, James, assignor to S. C. Johnson & Son, Racine, Wis. Brush. 1,453,306; May 1.
Collins, Peter J., Brooklyn, N. Y. Thermostatic valve. 1,453,272; May 1.
Colliver, Harold E., Simcoe, Ontario, Canada, and C. R. Mabee, Buffalo, N. Y. Food compound and producing the same. 1,453,752; May 1.
Conard, Richard W., Atlantic Highlands, N. J. Pliers. 1,453,863; May 1.
Connely, Charles B., Scotia, N. Y., assignor to General Electric Company. Overload-circuit controller. 1,453,492; May 1.
Conover, Peter W. (See Carr, C. W., Dixon, and Conover.)
Conrade, Everette C., Lewisville, N. C. Hedge clipper or trimmer. 1,453,621; May 1.
Conrade, Everette C., Lewisville, N. C. Shutter operating and securing mechanism. 1,453,622; May 1.
Converse, Albert, Pampa, Tex. Harvester thrasher. 1,453,753; May 1.
Cook, Earl H., Watertown, Wis. Table-slide construction. 1,453,546; May 1.
Cooke, Frank V., assignor to K. B. Goddard, Detroit, Mich. Vehicle spring. Re15,586; May 1.
Corona Typewriter Company. (See Armstrong, Frank H., assignor.)
Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Clip for corner beads. 1,453,973; May 1.
Coty, Alfred C., assignor to The Watertown Bag Machine Co., Inc., Toledo, Ohio. Tubing machine. 1,453,864; May 1.
Covell, William J., San Francisco, Calif. Dosage bottle. 1,453,444; May 1.
Covell, William J., San Francisco, Calif. Dispensing container. 1,453,445; May 1.
Cowin, Irving R., assignor of one-half to W. Carmack, and one-half to F. C. Werk, Cleveland, Ohio. Pressure regulator. 1,453,704; May 1.
Cowles, Edward P., Sparta, Mich. Automatically-reversing drain board for clothes wringers. 1,453,337; May 1.
Cox, Kenneth, Putney, London, R. P. Kerr, Gateshead-upon-Tyne, and E. J. Baty, Luton, England. Apparatus for gas purification. 1,453,754; May 1.
Coy, Harris S., Anderson, Ind. Manual operating means for automatic temperature-control systems. 1,453,379; May 1.
Craver, Thomas G., assignor of one-fourth to M. L. Parker, Mount Hope, and one-fourth to L. Dougless, Scarboro, W. Va. Advertising device. 1,453,755; May 1.
Crawford, Henry A., Tulsa, Okla. Aeroplane suspension. 1,453,307; May 1.
Crawley, Courtland J., Chicago, Ill. Receptacle. 1,453,784; May 1.
Crombie, James, St. Louis, Mo. Boiler-turning cradle. 1,453,705; May 1.
Crosby, Oliver, St. Paul, Minn. Clip hook. 1,453,706; May 1.
Crotty, Thomas A., Danbury, Conn. Vehicle signal. 1,453,380; May 1.
Culver, Ben F., and W. H. Doyle, Platteville, Wis.; said Culver assignor to said Doyle. Barrel-holding device. 1,453,547; May 1.
Cunningham, George F., Alexandria, La. Fishing tool. 1,453,493; May 1.
Curtiss, George E., New Britain, Conn., assignor to Landers, Frary & Clark. Urn. Des. 62,271; May 1.
D'Alessandro, Dominick, and R. Pace, Quincy, Mass.; said Pace assignor to said D'Alessandro. Machine for making tiles. 1,453,381; May 1.
D'Alessandro, Dominick, and R. Pace, Quincy, Mass.; said Pace assignor to said D'Alessandro. Making tiles. 1,453,382; May 1.
Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shim for center-bearing plates. 1,453,661; May 1.
Davidson, Bruce J., New York, N. Y., assignor to Wirebounds Patents Company, Kittery, Me. Wire-joining tool. 1,453,446; May 1.
Davidson, Bruce J., Marseilles, Ill., assignor to Wirebounds Patents Company. Wire-joining method. 1,453,447; May 1.
Davis, Charles S., et al. (See Donaldson, Elizabeth C., assignor.)
Davison, Walter W., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,453,338; May 1.
Dawley, James C. (See Ripsch, C. W., and Dawley.)

Dawson, Arthur T., G. T. Buckham, Westminster, London, England, and G. D. Haskell, Boston, Mass., assignors to Vickers Limited, Westminster, London, England. Machine gun. 1,453,974; May 1.
Day, William R., Cleveland, Ohio. Piston and piston ring. 1,453,448; May 1.
Dedering, Fred P., Kiel, Wis. Tractor hitch. 1,453,383; May 1.
Deeks, Hiram C. J., Sea Cliff, N. Y., and M. Deeks, Rochelle Park, N. J., assignors to J. Deeks, Sea Cliff, N. Y. Method of and apparatus for forming concrete structures. 1,453,707; May 1.
Deeks, Joseph. (See Deeks, Hiram C. J. and M., assignors.)
Deeks, Maurice. (See Deeks, Hiram C. J. and M.)
De Forest Radio Telephone & Telegraph Company. (See Bradford, James L., assignor.)
De Launty, Oliver M., Chicago, Ill. Two-cycle gas engine. 1,453,449; May 1.
De Laval Separator Company, The. (See Miller, Theodore H., assignor.)
Delgado, Juan O., El Paso, Tex. Shock absorber for motor vehicles. 1,453,785; May 1.
Delta-Star Electric Company. (See Van Etten, Frank C., assignor.)
De Montmollin, Guillaume, J. Spieler, and G. Bonhôte, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Intermediate product for the manufacture of dyestuffs and making same. 1,453,659; May 1.
De Montmollin, Guillaume, G. Bonhôte, and J. Spieler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs and the manufacture of same. 1,453,660; May 1.
Dennon, Purly A., Grand Island, Nebr. Air washing and cooling apparatus. 1,453,494; May 1.
De Remer, Jay G., Greenwich, Conn. Compressor. Re15,590; May 1.
De Remer, Jay G., Greenwich, Conn. Refrigerating apparatus. Re15,591; May 1.
Detroit Carrier and Manufacturing Company. (See Taylor, Huston, assignor.)
Dewey, Edward B., Washington, D. C. Hairpin container. 1,453,756; May 1.
De Young, Teunis, jr., South Holland, Ill. Bulb planter. 1,453,923; May 1.
Dickinson, Frederick S., New York, N. Y., and J. Springer, Atlantic Highlands, N. J., assignors to said Dickinson. Constructing pneumatic tires. 1,453,865; May 1.
Dieterle, Edward P., assignor of one-half to A. G. Barker, New York, N. Y. Vibratory tool. 1,453,831; May 1.
Dilas, Harry, Bay City, Mich. Mopping vehicle. 1,453,450; May 1.
Dill, Horace E., Graniteville, S. C., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,453,451; May 1.
Dillistone, Cecil E., Owen Sound, Ontario, Canada. Foot-operated latch for doors and the like. 1,453,308; May 1.
Dixon, Robert J. (See Carr, C. W., Dixon, and Conover.)
Dobbin, Henry F., assignor to Western Electric Company, Incorporated, New York, N. Y. Centrifugal governor. 1,453,452; May 1.
Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. 1,453,495; May 1.
Doble Laboratories. (See Doble, John A., assignor.)
Dodge, Milton L., Newburyport, Mass. Manufacture of turn shoes and apparatus for use therein. 1,453,925; May 1.
Dodge, Milton L., Newburyport, Mass. Turn shoe. 1,453,924; May 1.
Donaldson, Elizabeth C., Highland Park, Mich., assignor to C. S. Davis, R. P. Johnson, J. C. O'Hara, J. F. McNaughton, A. E. Boyce, and H. C. Gordon, Muncie, Ind. Electric heater. 1,453,832; May 1.
Dornier, Claudius, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Hydroaeroplane. 1,453,496; May 1.
Douglass, Lem, et al. (See Craver, Thomas G., assignor.)
Doyle, William H. (See Culver, B. F., and Doyle.)
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Dill, Horace E., assignor.)
Draper Corporation. (See Hunt, Patrick J., assignor.)
Draycott, Walter, Alton, Ill. Lace. Des. 62,298; May 1.
Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Radiator cover. 1,453,339; May 1.
Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Attachment for motor-vehicle radiators. 1,453,340; May 1.
Dufresne, Georges A., Trois Rivières, Quebec, Canada. Resilient wheel. 1,453,786; May 1.
Duncan, Joseph S., Chicago, Ill. Making printing-plate blanks and product thereof. 1,453,284; May 1.
Duncan, William M., Alton, Ill. Furnace. 1,453,341; May 1.
Duncombe, Tyrrell H., Detroit, Mich. Overrunning clutch. 1,453,548; May 1.
Dunham, William P., Copperas Cove, Tex., assignor to Nebulizer Oil Burning Company. Firing boilers by means of fuel oils. 1,453,662; May 1.
Dunston, Wayne E., assignor to C. Girl, Kalamazoo, Mich. Automobile bumper. 1,453,806; May 1.
Dyer, Charles B., Indianapolis, Ind. Emblem, badge, brooch, pin, cuff button, watch fob, or an article of similar nature. Des. 62,272; May 1.
Dzutsoff, Paul, Seattle, Wash. Combined oxygen and acetylene cutting and welding torch. 1,453,385; May 1.
Eager, Honor L., Brooklyn, N. Y. Device for removing facial wrinkles. 1,453,926; May 1.
Eaton, Warren J., Midland, Pa. Grab bucket. 1,453,927; May 1.
Eberly, Jacob A., jr., Philadelphia, Pa. Hypodermic syringe. 1,453,309; May 1.
Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum-silicon alloy and making it. 1,453,928; May 1.
Electric Phonograph Company. (See Shigley, Cyrus C., assignor.)
Ellison, Thomas J., Richmond, Ky. Animal trap. 1,453,342; May 1.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Filter. 1,453,310; May 1.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Rotary filter. 1,453,311; May 1.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Rotary drier. 1,453,312; May 1.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Dealcoholizing process and apparatus. 1,453,313; May 1.
Engler, William B., Youngstown, Ohio. Dump-body hoist. 1,453,663; May 1.
English & Mersick Co., The. (See Kaimer, Richard V., assignor.)
Ensign, William S., New Rochelle, assignor to Tiffin Products, Inc., Long Island City, N. Y. Plate or similar article. Des. 62,273; May 1.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignors.)
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,274; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,275; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,276; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,277; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,278; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,279; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,280; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,281; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,282; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,283; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,284; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,285; May 1.
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glen Riddle, Pa. Textile fabric. Des. 62,286; May 1.
Espenschied, Lloyd, Hollis, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, System for communicating with moving vehicles. 1,453,387; May 1.
Essex Rubber Company. (See Sanders, Walter E., assignor.)
Evans, Frederick C., Ithaca, N. Y. Draft regulator. 1,453,757; May 1.
Ewell, John A., Quinault, Wash. Clutch-controlling mechanism for automobiles. 1,453,386; May 1.
Fanslow, Benjamin O., assignor to New Era Manufacturing Company, New York, N. Y. Check writer. 1,453,867; May 1.
Fargo, Charles R., Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Leaf upsetting and supporting device. 1,453,664; May 1.
Farlow, James N., San Francisco, Calif. Theft-prevention device for automobiles. 1,453,497; May 1.
Farnsworth, Arthur J., and E. M. St. Claire, assignors to W. S. Beach, San Francisco, Calif. Bag. 1,453,549; May 1.
Farrar, B. W. (See Farrar, Carroll J., assignor.)

Farrar, Carroll J., Kirkwood, assignor of one-half to B. W. Farrar, Summerville, Ga. Apparatus for setting rule forms. 1,453,787; May 1.
Fay, Joseph W., Milwaukee, Wis., assignor to Fred Pabst Company. Welded joint. 1,453,343; May 1.
Fay, Thomas J., Brooklyn, N. Y. Automobile body-motion stabilizer. 1,453,344; May 1.
Fayer, Charles, New York, N. Y., assignor to Wappler Electric Co., Inc. Current regulator for X-ray systems. 1,453,314; May 1.
Feder, David P. (See Kimball, Matthew D., assignor.)
Federal Finance Corporation. (See Choate, William E., assignor.)
Feldman, Abraham G., Chicago, Ill. Bracket. 1,453,788; May 1.
Ferguson Brothers Mfg. Co. (See Wagner, Andrew, assignor.)
Ferguson, Joseph B., Newark, N. J. Vehicle. 1,453,345; May 1.
Fermanian, Mark B., Troy, N. Y. Time-controlled draft regulator. 1,453,929; May 1.
Ferngren, Enoch T., and L. D. Soubier, assignors to The Owens Bottle Company, Toledo, Ohio. Glass-cutting mechanism. 1,453,315; May 1.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Acoustic method and apparatus. 1,453,316; May 1.
Field, Alan D., Oakland, assignor to The Field-Ernst Envelope Co., San Francisco, Calif. Envelope. 1,453,758; May 1.
Field-Ernest Envelope Co., The. (See Field, Alan D., assignor.)
Fink, Gail J., Niagara Falls, N. Y., and E. D. Glauque, Niagara Falls, Ontario, Canada, assignors to Hooker Electrochemical Company, New York, N. Y. Preparation of pure selenium oxychloride. 1,453,789; May 1.
Fitz-Empire Double Pivot Last Company. (See Fitz, Guy B., assignor.)
Fitz, Guy B., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last with reenforced toe. 1,453,317; May 1.
Fitzsimmons, James. (See Lubash, Martin, assignor.)
Flading, John W. (See Grieve, R., and Flading.)
Fleming, Clarence C., Amityville, N. Y., and H. L. Myers, Morristown, N. J. Display folder. 1,453,853; May 1.
Flick, Henry, assignor to Hayes Wheel Company, Jackson, Mich. Billet holder for spoke-mitering machines. 1,453,930; May 1.
Flick, Henry, and C. M. Buck, assignors to Hayes Wheel Company, Jackson, Mich. Multiple drill for drilling wood wheels for hub flanges. 1,453,931; May 1.
Fogal, John E. W., Quincy, Ill. Door-operating device. 1,453,550; May 1.
Fogal, John E. W., assignor to Fogal-Williams Safety Devices, Inc., Quincy, Ill. Elevator interlocking device. 1,453,551; May 1.
Fogal-Williams Safety Devices, Inc. (See Fogal, John E. W., assignor.)
Foll, Gerald, Winnipeg, Manitoba, Canada. Attachment to gas stoves. 1,453,665; May 1.
Forbes Lithograph Manufacturing Company. (See Macdonald, John D., assignor.)
Forster, George, Philadelphia, Pa. Notifying or call device for telephones. 1,453,453; May 1.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic condenser. 1,453,368; May 1.
Foundation Oven Corporation. (See Roberts, William E., assignor.)
Franovich, Dominick, Venice, La. Drydock. 1,453,666; May 1.
French Battery & Carbon Company. (See Graves, John, assignor.)
Frias, Ricardo. (See Cannle, M. A., and Frias.)
Fritz, Charles, Chicago, Ill. Drain cleaner. 1,453,454; May 1.
Frohock, Rodney C., Augusta, Me. Starting device. 1,453,868; May 1.
Fuller, Franz A., assignor to The J. E. Mergott Co., Newark, N. J. Bag frame. 1,453,455; May 1.
Fuller, Hervey L., W. F. Nesbit, and P. O. Petterson, Galesburg, Ill. Machine to melt snow and ice. 1,453,552; May 1.
G. M. C. Metallic Grease Co. (See Verniaud, Claudius, assignor.)
Gaddis, William E., assignor of one-third to H. L. Stewart, McCune, Kans. Road leveler. 1,453,346; May 1.
Gale, George M., San Antonio, Tex. Fountain brush. 1,454,023; May 1.
Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Combined plow and planter. 1,453,553; May 1.
Gaschke, George, assignor to American Platinum Works, Newark, N. J. Finger ring and setting. 1,453,708; May 1.
Gee, Hays C. (See Girvin, F. B., and Gee.)
General Electric Company. (See Champlin, Franklin J., assignor.)
General Electric Company. (See Connely, Charles B., assignor.)
General Electric Company. (See Hamilton, Walter L., assignor.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Mitchell, L. E., and White, assignors.)
General Electric Company. (See Rogers, Harold W., assignor.)
General Electric Company. (See Seiz, Walter, assignor.)
General Electric Company. (See Stack, George E., assignor.)
General Fireproofing Company, The. (See Coryell, William C., assignor.)
General Motors Research Corporation. (See Kettering, Charles F., assignor.)
Geneva Cutlery Corporation. (See Althoff, Walter, assignor.)
Genthner, Thomas E., and A. L. Stevens, Boston, Mass. Muffler. 1,453,932; May 1.
Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire deforming and severing machine. 1,453,456; May 1.
Glauque, Edmund D. (See Fink, G. J., and Glauque.)
Gibbons, Willis A., New York, N. Y., and A. Given, Newark, N. J. Loading high-explosive shells. 1,453,933; May 1.
Giddings, George C., Springfield, Vt. Mechanically-operated automatic chuck. 1,453,318; May 1.
Gillis, James J., Vancouver, British Columbia, Canada. Penholder. 1,453,667; May 1.
Girl, Christian. (See Dunston, Wayne E., assignor.)
Girvin, Fitzhugh B., and H. C. Gee, Georgetown, Tex. Signal. 1,453,623; May 1.
Gisholt Machine Company. (See Stevens, William N., assignor.)
Giuffre, Joseph, and C. W. Rich, San Francisco, Calif. Dispensing cigarette case. 1,453,585; May 1.
Given, Arthur. (See Gibbons, W. A., and Given.)
Glaspey, Warren E., Bridgeton, N. J., assignor to Spring Stopper Company, New York, N. Y. Machine for making bottles, etc. 1,453,759; May 1.
Glowacki, John B., Chicago, Ill. Crutch armrest. 1,453,790; May 1.
Goddard, Karl B. (See Cooke, Frank V., assignor.)
Goin, George R., and R. E. Hite, Highland Park, Mich.; said Goin assignor to said Hite. Filler and gauge. 1,453,668; May 1.
Good Inventions Co. (See Good, John, assignor.)
Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Engine preheater. 1,453,669; May 1.
Goodrich, Daniel L., Chicago, Ill. Chest. 1,453,935; May 1.
Goodyear Tire & Rubber Company, The. (See Mylrole, John M., assignor.)
Goodyear's India Rubber Glove Manufacturing Company. (See Mahoney, Jeremiah L., assignor.)
Gordon, Henry C., et al. (See Donaldson, Elizabeth C., assignor.)
Gossling, Walter E., New York, N. Y., assignor, by mesne assignments, to The Prest-O-Lite Co., Inc., Indianapolis, Ind. Post and cover clamp and seal. 1,453,791; May 1.
Gould Coupler Company. (See Saurage, William H., assignor.)
Graber, Ellis, Tunbridge Wells, England. Machine for use in drying or treating photographic prints, films, and the like. 1,453,554; May 1.
Grant, Albert E., New York, N. Y. Oil burner. 1,453,834; May 1.
Graves, John, assignor to French Battery & Carbon Company, Madison, Wis. Ejecting mechanism for battery-core-making machines. 1,453,869; May 1.
Green, Arthur H. (See Teves, Frederick W., assignor.)
Greenberg, Geza, New York, N. Y., and W. A. Winter, East Orange, N. J. Urethroscope. 1,453,975; May 1.
Greer, Benjamin J., Poynor, Tex. Wrench. 1,453,670; May 1.
Gregg, Alfred W., Chicago, assignor to Whiting Corporation, Harvey, Ill. Electric furnace. 1,453,347; May 1.
Grella, Larie, Brooklyn, N. Y. Vehicle fender. 1,453,273; May 1.
Grieve, Robert, and J. W. Flading, Lansing, Mich. Puncture proof pneumatic tire. 1,453,348; May 1.
Gross, Ernest A., Lamoille, Minn. Armament for mail and express cars. 1,453,792; May 1.
Grotta, Bennett, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Composition for detonators. 1,453,976; May 1.
Guenther, Arthur G. G., assignor to Signode System, Inc., Chicago, Ill. Stretching tool. 1,453,564; May 1.
Guide Motor Lamp Manufacturing Company, The. (See Persons, William F., assignor.)
Gunn, John J., Chicago, Ill. Adjustable bearing box. 1,453,936; May 1.
Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,453,349; May 1.
Hacker, Horace W., Chicago, Ill. Clamping mechanism. 1,453,350; May 1.
Hadermann, Frederick E., New York, N. Y. Smoker stand. Des. 62,287; May 1.
Hadka, Joseph, Oak Park, Ill. Controlling device for muffler cut-outs. 1,453,624; May 1.
Haldeman, Frank M., assignor to The Master Builders Company, Cleveland, Ohio. Process and composition of matter for coloring mortars. 1,453,457; May 1.
Hamilton, Walter L., Holyoke, Mass., assignor to General Electric Company. Maximum-demand meter. 1,453,498; May 1.

Hamister, Victor C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Electrical connection. 1,453,793; May 1.
Hancock, John W., Denver, Colo. Electric-light fixture. 1,453,794; May 1.
Hansen, Klaus L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding dynamo-electric machine. 1,453,389; May 1.
Harrison, Reuben N., Plains District, Va. Mechanical nurse. 1,453,937; May 1.
Harrold, Sherman, Hartford City, Ind. Wrist mirror. 1,453,671; May 1.
Hart, Henry E. (See Hart, Corda A., and H. E.)
Hart, Corda A. and H. E., Danville, Ill. Adjustable headlight arrangement for motor vehicles. 1,453,938; May 1.
Hart, Harry S. (See Hindahl, David, assignor.)
Hart, Harry S., Chicago, Ill. Hopper-car arrangement. 1,453,835; May 1.
Hart, Harry S., assignor to National Dump Car Company, Chicago, Ill. Dump-car-door latch. 1,453,836; May 1.
Hartmann, John W., Brooklyn, N. Y. Sifting grate. 1,453,870; May 1.
Hartzell, Morris H., Philadelphia, Pa. Umbrella. 1,453,499; May 1.
Hartzell, Morris H., Philadelphia, Pa. Umbrella. 1,453,500; May 1.
Harvey, Tom, jr. (See Butterfield, E. H., and Otterbein, assignors.)
Hash, Charles S., Chadron, Nebr. Automobile light dimmer. 1,453,501; May 1.
Haskell, George D. (See Dawson, A. T., Buckham, and Haskell.)
Hauenstein, John, Kansas City, Mo. Combination mirror and telephone mouthpiece. 1,453,760; May 1.
Haunt, Harry R., St. Louis, Mo. Tire. 1,453,351; May 1.
Hawkinson, Axel W., assignor to Topliff-Ely Company, Washington, Pa. Hood for children's carriages and doll carts. 1,453,871; May 1.
Hawkins, Roe C., and E. S. Hixson, Long Beach, Calif. Grouser. 1,453,872; May 1.
Hayes Wheel Company. (See Flick, Henry, assignor.)
Hayes Wheel Company. (See Flick, H., and Buck, assignor.)
Hearne, Eugene M., Brooklyn, N. Y. Soldering flux. 1,453,586; May 1.
Heath, Frederick, Tacoma, Wash. Pilaster construction. 1,453,837; May 1.
Heaton, Clarence E., assignor to Wilson Brothers, Chicago, Ill. Display box. 1,453,672; May 1.
Hebert, Albert H., Holyoke, Mass. Oil shield for belt pulleys. 1,453,673; May 1.
Heckman, James, assignor of one half to S. L. Bargsley, Electra, Tex. Rat and mouse trap. 1,453,352; May 1.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake head. 1,453,838; May 1.
Hedrick, Clarence E., Newton, Kans. Poultry-dipping machine. 1,453,674; May 1.
Heinemann Electric Company. (See Mayer, Walter S., assignor.)
Heinrichs, Berg, assignor to Mid-West Box Company, Anderson, Ind. Machine for making corrugated board. 1,453,458; May 1.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Gearing. 1,453,709; May 1.
Hellberg, Harold, Somerville, Mass. Splash counterdrop press. 1,453,390; May 1.
Helmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current commutator generator. 1,453,391; May 1.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,453,353; May 1.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Dynamometer. 1,453,354; May 1.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Wire-drawing scale. 1,453,355; May 1.
Hemphill Company. (See Bosworth, George P., assignor.)
Hertzberg, Harry, Brooklyn, N. Y., assignor to Magnus Electric Company, Inc. Switch-controlled electric appliance. 1,453,587; May 1.
Hess, Edward B., Brooklyn, and L. C. Myers, Freeport, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,453,839; May 1.
Heyman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. 1,453,565; May 1.
Hicks, Du Val Q., Fredericksburg, Va. Convertible fan. 1,453,873; May 1.
Hill, Raymond L., Elyria, Ohio, assignor, by mesne assignments, to W. R. Huntington. Resilient heel lift. 1,453,459; May 1.
Hill, Raymond L., Elyria, Ohio, assignor, by mesne assignments, to W. R. Huntington. Resilient heel lift. 1,453,460; May 1.
Hindahl, David, assignor to H. S. Hart, Chicago, Ill. Maximum-capacity railway car. 1,453,675; May 1.
Hinderliter, Cyrus S., Eddyville, Pa. Hook. 1,453,502; May 1.
Hirsch, Paul A., Erie, Pa., assignor to Aero Pulverizer Company, New York, N. Y. Treating and feeding fuel and apparatus therefor. 1,453,977; May 1.
Hite, Rexford E. (See Goin, G. R., and Hite.)
Hixson, Ernest S. (See Hawkins, R. C., and Hixson.)
Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Electro-thermal ignition device. 1,453,461; May 1.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Stove construction. 1,453,710; May 1.
Holley, Earl. (See Meloche, Daniel H., assignor.)
Holman, Arthur J., Boston, Mass., assignor to Motion Picture Improvement Company. Lens-adjusting means. 1,453,462; May 1.
Holmberg, John A., Lindsborg, Kans. Check valve. 1,453,978; May 1.
Holmgren, Eric A., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,453,274; May 1.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffery Manufacturing Company, Columbus, Ohio. Reel. 1,454,017; May 1.
Holmes, Thomas J., Chicago, Ill. Golf club. 1,453,503; May 1.
Holmquist, August, Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Filling machine. 1,453,840; May 1.
Holsen, Joseph J., Manitowoc, Wis. Combination tool. 1,453,979; May 1.
Hooker, Electrochemical Company. (See Fink, G. J., and Glauque, assignors.)
Horan, Jeremiah, New York, N. Y. Container for packed powder and foodstuffs. 1,453,676; May 1.
Horan, Jeremiah, New York, N. Y. Book container for packaged foodstuffs. 1,453,677; May 1.
Hornig, Kurt F. (See Graham, B. F., Belluche, and Hornig.)
Hotchkiss, Howard F., assignor to The Bridgeport Chain Company, Bridgeport, Conn. Tool for attaching and removing tire chains. 1,453,874; May 1.
Hoting, Hans C., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Combined washer and drier. 1,453,711; May 1.
House, Henry A., jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,453,356; May 1.
Houston Pneumatic Puncture Proof Wheel Company. (See Balazs, R. J., and Autrey, assignors.)
Hovell, Thomas M., Elstree, England. Animal trap. 1,453,795; May 1.
Hovell, Thomas M., Elstree, England. Animal trap. 1,453,796; May 1.
Howe, Jesse J. (See Morris, Maynard D., assignor.)
Howell, Sylvester S., assignor to United Chemical and Organic Products Company, Chicago, Ill. Centrifugal separator. 1,453,678; May 1.
Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Attenuation equalizer. 1,453,980; May 1.
H. S. Laboratory. (See Swift, Clement K., assignor.)
Huber, Frederick W., Riverside, Calif., assignor, by mesne assignments, to Western Precipitation Company. Obtaining soluble potassium compounds in the manufacture of cement. 1,453,797; May 1.
Hubert, Conrad. (See Norwalk, Albert B., assignor.)
Hughes, Howard R., Los Angeles, Calif. Lubricator for earth-boring drills. 1,453,875; May 1.
Hume, John R., Chicago, Ill. Street indicator. 1,453,463; May 1.
Hunt, Patrick J., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,453,841; May 1.
Hunter, William C., St. Louis, Mo. Measuring device. 1,453,876; May 1.
Huntingdon, W. R. (See Hill, Raymond L., assignor.)
Ingersoll-Rand Company. (See Jones, Joseph W., assignor.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
Iribe, Paul, New York, N. Y. Phonograph cabinet. 1,453,464; May 1.
Iversen, Lorenz, Pittsburgh, Pa. Back shear table. 1,453,319; May 1.
Ishbia, David, Palisades, N. J. Display sign. 1,453,679; May 1.
Jackson, James P., assignor to Addressograph Company, Chicago, Ill. Printing device. 1,453,392; May 1.
Jackson, W. H., Company. (See Koenig, Frank R., assignor.)
Jacobs, William J., Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Apparatus for drawing sheet glass. 1,453,842; May 1.
Jacobson, Louis, Philadelphia, Pa. Pan for a lighting fixture. Des. 62,299; May 1.
Jacobucci, Raphael, Providence, R. I., assignor of one-half to G. Rivkind, Boston, Mass. Multicolor-printing machine. 1,453,465; May 1.
Jahr, Arthur A. (See Widell, M. E., and Jahr.)
Jameson, Walter R. (See Thompson, W., and Jameson.)
Janisch, John F., Kirksville, Mo. Automatic self-locking folding table. 1,453,504; May 1.
Jeffries, Elijah G., Tacoma, Wash. Tire holder. 1,453,566; May 1.
Jeffery Manufacturing Co., The. (See Holmes, Morris P., assignor.)
Jensen, Charles J., North Plainfield, N. J. Lantern. 1,453,798; May 1.

Jessen, James, Minneapolis, Minn. Portable extensible conveyer. 1,453,393; May 1.
Jette, Archie N., Anaconda, Mont. Reverberatory smelting furnace. 1,454,024; May 1.
Jette, Archie N., Anaconda, Mont. Smelting furnace. 1,454,025; May 1.
Jette, Archie N., Anaconda, Mont. Construction of smelting furnaces. 1,454,026; May 1.
Johnson, Einer, Duluth, Minn. Hook. 1,453,680; May 1.
Johnson, Elias, and S. Peterson, Newhall, Iowa. Cylinder and piston construction. 1,453,981; May 1.
Johnson, Ray P., et al. (See Donaldson, Elizabeth C., assignor.)
Johnson, Robert H., Los Angeles, Calif. Combined compasses, square, etc. 1,453,625; May 1.
Johnson, Robert S., New York, N. Y. Cue-chalk holder. 1,453,877; May 1.
Johnson, S. C., & Son. (See Collier, James, assignor.)
Johnston, Roy W., Chicago, Ill. Focusing mechanism. 1,453,843; May 1.
Jones, George G., Cleveland, Ohio. Combined grave marker and flag holder. Des. 62,288; May 1.
Jones, Joseph W., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oil governor for compressor engines. 1,453,681; May 1.
Joseph, Arthur S. (See Blackman, Mabel, assignor.)
Joseph, Frank. (See Lather, Carl, assignor.)
Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)
Kaimer, Richard V., assignor to The English & Mersick Co., New Haven, Conn. Latch for vehicle doors. 1,453,712; May 1.
Kaji, Hilda, assignor to M. B. Leventhal, Philadelphia, Pa. Textile fabric or similar article. Des. 62,290; May 1.
Kamper, Leslie H. (See Adland, V. E., and Kamper.)
Katz, Morris I., Springfield, Mass. Bottle. Des. 62,300; May 1.
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Rheostat. 1,453,682; May 1.
Keene, Walter E., Baltimore, Md. Brush holder. Des. 62,289; May 1.
Keeping, Thomas J., Los Angeles, Calif. Lamp-shade-delivery box. 1,453,275; May 1.
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical receiving or repeating apparatus and operating the same. 1,453,982; May 1.
Kendall, Robert C., Chicago, Ill. Cup packing for pistons. 1,453,505; May 1.
Kendall, William G., Newark, N. J. Partition for vanity cases. 1,453,626; May 1.
Kendrick, Harry. (See Buckley, M. C., and Kendrick.)
Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
Kerlin, John W., New Brunswick, N. J. Tank. 1,453,983; May 1.
Kerr, Robert P. (See Cox, K., Kerr, and Baty.)
Kershner, Benjamin V., Kansas City, Mo., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for stitching waistbands. 1,453,506; May 1.
Kessler, Jacob C. (See Schipplock, C. J., and Kessler.)
Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Joining metals. 1,453,358; May 1.
Kilgour, David, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,453,844; May 1.
Kimball, Matthew D., assignor of one-half to D. Feder, Omaha, Nebr. Nut lock. 1,453,507; May 1.
Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Power-transmission apparatus. 1,453,466; May 1.
King, Jesse C., assignor to Canada Carbide Company, Limited, Montreal, Quebec, Canada. Container or receptacle for carbide and the like. 1,453,508; May 1.
King, Ralph A. J., Cherokee, Okla. Air filter for automobiles. 1,453,627; May 1.
Kinsley, John H., Clinton, Mass. Telegraph sounder. 1,453,359; May 1.
Klauminzer, Carl W., Lakewood, Ohio. Typewriting machine. 1,453,628; May 1.
Klepac, Joseph, New York, N. Y. Ventilating insole. 1,453,394; May 1.
Knippel, Henry, Lincoln, Nebr. Rear-spring support for automobiles. 1,453,467; May 1.
Knudsen, William, Fremont, Nebr. Tractor. 1,454,027; May 1.
Kochendarfer, Sirius E., Washington, Pa. Rotary engine. 1,453,683; May 1.
Koenig, Frank R., Brooklyn, assignor to W. H. Jackson Company, New York, N. Y. Roller screen. 1,453,939; May 1.
Koken, Walter F., St. Louis, Mo. Barber pole. Des. 62,301; May 1.
Koken, Walter F., St. Louis, Mo. Barber chair. Des. 62,302; May 1.
Kominz, Jacob S., Rochester, N. Y. Nonskid attachment for vehicle wheels. 1,453,276; May 1.
Kopp, William, assignor to Joseph N. Smith & Co., Detroit, Mich. Mechanical window lift. 1,453,845; May 1.
Kraus, Louis P., jr., New York, N. Y. Making refractory products. 1,453,468; May 1.
Krol, Andy, Uniontown, Pa. Newspaper easel. 1,454,028; May 1.
Krug, William H., Oshkosh, Wis. Antiskid device for vehicles. 1,453,360; May 1.
Kruse, Edward W., Chicago, Ill. Reserve-supply device for gasoline tanks. 1,453,713; May 1.
Kucera, Peter, assignor to Capstan Glass Company, Connellsville, Pa. Matrix device for molds. 1,453,277; May 1.
Kucera, Peter, South Connellsville, assignor to Capstan Glass Company, Connellsville, Pa. Manufacturing ring molds and the like. 1,453,278; May 1.
La Chapelle, Euclid I., Brockton, Mass. Shoe-turning machine. 1,453,799; May 1.
La Croix, Romeo, Holyoke, Mass., assignor to Samuel M. Langston Company, Camden, N. J. Tube-making machine. 1,453,846; May 1.
Labberton, John M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear tooth. 1,453,395; May 1.
Lagemann, Gustav P., Luverne, Minn. Drill. 1,453,878; May 1.
Landers, Frary & Clark. (See Curtiss, George E., assignor.)
Landis Tool Company. (See Stoner, Paul, assignor.)
Lane, George S., San Francisco, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Vehicle brake device. 1,453,509; May 1.
Lane, William M., et al. (See Wood, Joseph C., assignor.)
Lange, William F., Elgin, Ill. Combination egg beater and cream remover. 1,453,761; May 1.
Langston, Samuel M., Company. (See La Croix, Romeo, assignor.)
Lather, Carl, assignor of one-half to F. Joseph, Chicago, Ill. Velocipede. 1,453,469; May 1.
Laub, Leon. (See Mosauer, H. D., and Laub.)
Lavagetto, Joseph T. L., Portland, Oreg. Ship construction. 1,453,588; May 1.
Lawrence, Walter H., assignor of one-half to W. A. Wells, Council Bluffs, Iowa. Car-door lock. 1,453,510; May 1.
Lawrence, William J., Toledo, Ohio. Furnace. 1,453,361; May 1.
Layne, Mahlon E., Los Angeles, Calif. Well mechanism. 1,453,847; May 1.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third or fourth point suspension support mount or bracket for brake beams. 1,453,684; May 1.
Le Doux, Pearl, Oakland, Calif. Combination doll and pincushion. Des. 62,291; May 1.
Lees, Ernest J., assignor to H. T. Bradner, Cleveland, Ohio. Arbor support. 1,453,470; May 1.
Lees, Joseph, Allentown, Pa. Lawn-edge trimmer. 1,454,018; May 1.
Lefebre, Edward A., Astoria, N. Y. Amplifier. 1,453,879; May 1.
Leggatt, Edward H. A., Woodford Green, England. Dart board or like target. 1,453,396; May 1.
Le Tarte, George M., Detroit, Mich. Spring retainer. 1,453,471; May 1.
Leventhal, Morris B. (See Kaji, Hilda, assignor.)
Levinson, Sol, San Francisco, Calif. Fighting glove. 1,453,714; May 1.
Levinson, Sol, San Francisco, Calif. Fighting glove. 1,453,715; May 1.
Lewis, Grace M., Keene, N. H. Coal or wood carrier. 1,453,629; May 1.
Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. Re15,592; May 1.
Libbey-Owens Sheet Glass Company. (See Jacobs, William J., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Rowley, C. A., and Reece, assignors.)
Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Air-spring suspension. 1,453,589; May 1.
List, Frank X., New York, N. Y. Folding advertising box. 1,453,849; May 1.
Litchfield, Edgar C. and H. L., and V. Speer, Waterloo, Iowa; said Speer assignor to said Edgar C. Litchfield and said H. L. Litchfield. Self-lubricating wheel and pitman. 1,454,021; May 1.
Litchfield, Henry L. (See Litchfield, E. C. and H. L., and Speer.)
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protection of resistors of electric furnaces. 1,453,397; May 1.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-tightening water-cooled terminal. 1,453,398; May 1.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for protecting resistors in electric furnaces. 1,453,399; May 1.

Lo Giudice, Domenick, Brooklyn, assignor to George Tiemann & Company, New York, N. Y. Surgical instrument. 1,453,934; May 1.
Long, Lewis R. (See White, Fred G., assignor.)
Long, Ralph A., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Manufacture of ammonium perchlorates. 1,453,984; May 1.
Longenbaugh, Charles A., Columbus, Ohio. Shield for motor vehicles. 1,453,685; May 1.
Look, Louis, Chicago, Ill. Tractor or truck wheel. 1,453,686; May 1.
Lorentz, Henry E., Washington, D. C. Keylocking device. 1,453,630; May 1.
Loveland, Emmett O., Kansas City, Mo. Tool-box attachment for motor vehicles. 1,453,362; May 1.
Lowrey, John R., assignor of one-half to J. A. S. Rogers, San Pedro, Calif. Hose-clamping tool. 1,453,940; May 1.
Lubash, Martin, Richmond Hill, assignor of one-half to J. Fitzsimmons, Baldwin, Long Island, N. Y. Pulley. 1,453,400; May 1.
Luce, Grafton E., Chicago, assignor, by mesne assignments, to C. A. Brown, Hinsdale, Ill. Method of and means for burning bricks. 1,453,850; May 1.
Ludwig, Otto F., Zillah, Wash. Pistol holster. 1,453,880; May 1.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Dornier, Claudius, assignor.)
Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and apparatus for controlling cooling of packages. 1,453,279; May 1.
McAdam, Charles, Company. (See Olsen, Victor O., assignor.)
McBee Binder Company. (See McBee, Harry B., assignor.)
McBee, Harry B., St. Louis, Mo., assignor to McBee Binder Company, Athens, Ohio. Printing press. 1,453,363; May 1.
McClarren, Samuel T., St. Petersburg, Fla. Window-operating device. 1,453,881; May 1.
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Means for reutilizing steam. 1,453,687; May 1.
McGrath, Sylvester S., West New Brighton, N. Y. Rotary kiln. 1,453,851; May 1.
McHugh, James N., Lexington, Ill. Auto lock. 1,453,882; May 1.
McIntyre, Allan H., assignor to Skinner Machinery Company, Dunedin, Fla. Bin door. 1,453,472; May 1.
McKenna, Raymond J., Denver, Colo., assignor to Magnuson X-Ray Company. X-ray-plate changer. 1,453,473; May 1.
McKennitt, William, Duluth, Minn. Agricultural machine. 1,453,631; May 1.
McKinstry, George W. and W. H. Siddall, assignors to Bay State Optical Company, Attleboro, Mass. Construction of eyeglasses. 1,453,632; May 1.
McNamara, F. S. (See O'Neill, Richard J., assignor.)
McNaughton, John F., et al. (See Donaldson, Elizabeth C., assignor.)
Mabee, Charles R. (See Oliver, H. E., and Mabee.)
Macdonald, John D., assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Foldable structure. 1,453,567; May 1.
MacGill, Charles F., Cambridge, Mass. Fluid-registering mechanism. 1,453,716; May 1.
Madden, Jesse F., Brooklyn, N. Y. Thread guide. 1,453,941; May 1.
Magnum Import Co. (See Schoenbrun, Arthur, assignor.)
Magnus Electric Company. (See Hertzberg, Harry, assignor.)
Magnuson X-Ray Company. (See McKenna, Raymond J., assignor.)
Mahoney, Jeremiah L., New Haven, Conn., assignor to Goodyear's India Rubber Glove Manufacturing Company. Tubing machine. 1,453,852; May 1.
Maise, Herman C., Springfield, Mass., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company. Door buffer. 1,453,364; May 1.
Malcom, Robert, Chicago, Ill. Respirator. 1,453,365; May 1.
Marathon Electric Mfg. Co. (See Kimble, Austin, assignor.)
Marble, William B., Los Angeles, Calif., assignor to Southern Glass Company. Bottle. Des. 62,303; May 1.
Margotton, Pierre J. C., Mort, France. Tanning of hides and skins. 1,453,800; May 1.
Marquyl, Otto G. (See Marshall, Arthur G.)
Marsden, John E. (See Milliken, John A., assignor.)
Marshall, Arthur G., formerly known as O. G. Marquyl, Pittsburgh, Pa. Cabinet. Des. 62,304; May 1.
Martin, Clement S., Rockville, Md. Demountable tire rim. 1,453,633; May 1.
Martin, David B., and J. Westerby, Hagersville, Ontario, Canada. Concrete mixer. 1,453,634; May 1.
Master Builders Company, The. (See Haldeman, Frank M., assignor.)
Mathieson Alkali Works, Inc. The. (See Mauran, Max, assignor.)
Matsuoka, Chokichi, Los Angeles, Calif. Agar-agar composition and producing the same. 1,453,848; May 1.
Matthiessen, Conrad H., jr., Irvington-on-Hudson, N. Y. Valve mechanism for internal-combustion engines. 1,453,801; May 1.
Mattson, Mary W., Hansboro, N. Dak. Plant waterer. 1,453,401; May 1.
Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Multitank crandle. 1,453,474; May 1.
Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Multiple-unit tank car. 1,453,475; May 1.
Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works Inc., New York, N. Y. Double-tier multiple-unit tank car. 1,453,476; May 1.
Mayer, Walter S., assignor to Heinemann Electric Company, Philadelphia, Pa. Plug-receiving wall outlet. 1,453,590; May 1.
Mayer, Walter S., assignor to Heinemann Electric Company, Philadelphia, Pa. Electric switch. 1,453,591; May 1.
Measuregraph Company, The. (See Wheeler, John I., assignor.)
Meier, Charles F., White Haven, assignor to Wilmot Engineering Company, Hazleton, Pa. Drive chain. 1,453,592; May 1.
Mellor, Laurence B., Clifford Park, Germantown, Pa. Golf-ball dipper or retriever. 1,453,511; May 1.
Meloche, Daniel H., assignor to E. Holley, Detroit, Mich. Coating for metal molds. 1,453,593; May 1.
Menor, Charles E., Spirit Lake, Iowa. Banking apparatus. 1,453,512; May 1.
Mergott, J. E., Co., The. (See Fuller, Franz A., assignor.)
Metal Saw and Machine Co., Inc. (See Stowell, Byron F., assignor.)
Metz, Charles H., assignor to C. A. Metz, Canton, Ohio. Water ejector. 1,453,513; May 1.
Metz, Clara A. (See Metz, Charles H., assignor.)
Meyer, Frederick, Buffalo, N. Y. Closure for storage compartments. 1,453,402; May 1.
Meyers, Edward G., Cincinnati, Ohio. Automatic marking machine. 1,453,985; May 1.
Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. 1,453,320; May 1.
Michigan Malleable Iron Company. (See Waterbor, Elmer F., assignor.)
Mid-West Box Company. (See Heinrichs, Berg, assignor.)
Miehle, Robert F., jr., Chicago, Ill. Cylinder printing press. 1,453,853; May 1.
Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Instrument of precision. 1,453,688; May 1.
Miller, Alten S., Baltimore, Md. Time fuse. 1,453,717; May 1.
Miller, Alten S., Baltimore, Md. Controlling the burning of time powder trains. 1,453,718; May 1.
Miller, Orin J., Hurdsfield, N. Dak. Sliding door. 1,453,986; May 1.
Miller, Theodore H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Combined milk reservoir and bowl-clamp support for cream separators. 1,453,802; May 1.
Milliken, John A., Bayonne, assignor to J. E. Marsden, Egg Harbor City, N. J. Glassworking apparatus. 1,453,803; May 1.
Millin, John J., New York, N. Y. Carton-wrapping machine. 1,453,719; May 1.
Mills, Neva L., Los Angeles, Calif. Bassinet. 1,453,942; May 1.
Mills, Samuel, New York, N. Y. Sinker. 1,453,987; May 1.
Miner, William H. (See Dath, Charles E., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miner, William H. (See Williams, Keith, assignor.)
Minett, Wilfrid T. (See Bates, A., and Minett.)
Misner, Edgar D., assignor of one-fifth to J. J. Battenfeld and one-fifth to H. R. Retz, Detroit, Mich. Wringer. 1,453,568; May 1.
Mitchell, Charles F., Torrance, Calif. Record-filing device. 1,453,943; May 1.
Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. Des. 62,292; May 1.
Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Sealing-in machine. 1,453,594; May 1.
Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Manufacture of incandescent electric lamps and similar articles. 1,453,595; May 1.
Mitchell, Oliver, Brookline, Mass. Fountain pen. 1,453,596; May 1.
Mittinger, George E., Youngstown, Ohio. Barrel or keg. 1,453,883; May 1.
Mohler, Charles M., Ypsilanti, Mich. Brake equalizer. 1,453,597; May 1.
Mojonnier Bros. Co. (See Retzbach, Edward J., assignor.)
Monitor Controller Company. (See Whittingham, George H., assignor.)
Montgomery, Samuel A. (See Payne, E. H., and Montgomery.)
Morris, Maynard D., Winnipeg, assignor of one-half to J. J. Howe, Dauphin, Manitoba, Canada. Breaker-arm synchronizer. 1,453,635; May 1.

Mosauer, Harry D., New York, N. Y., and L. Laub, Newark, N. J. Dice. 1,453,762; May 1.
Mote, John E., Dayton, Ohio. Resilient vehicle tire. 1,453,804; May 1.
Motion Picture Improvement Company. (See Holman, Arthur J., assignor.)
Motor Products Corporation. (See Seeley, Halstead H., assignor.)
Motto, Charles E. (See Powell, E. L., and Motto.)
Moutray, Van O., Muskogee, Okla. Tire filler. 1,453,884; May 1.
Mueller, Henry A., Stockholm, Sweden. Briquetting sawdust, peat, coal dust, and similar pulverous substances. 1,453,988; May 1.
Muller, Harold E. (See Carstens, George, assignor.)
Murchie, Robert, Detroit, Mich. Bottle closure or cap. 1,453,514; May 1.
Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Making vulcanization accelerators. 1,453,515; May 1.
Myers, Harold L. (See Fleming, Clarence C., assignor.)
Myers, Lewis C. (See Hess, E. B., and Myers.)
Mylroie, John M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. 1,453,763; May 1.
Naamlooze Vennootschap Finanzieele Maatschapij "Driebergen." (See Blankenburg Johannes, assignor.)
National Carbon Company. (See Hamister, Victor C., assignor.)
National Dump Car Company. (See Hart, Harry S., assignor.)
Nebulizer Oil Burning Company. (See Dunham, William P., assignor.)
Nelson, Anna J., Nome, Alaska. Necktie holder. 1,453,885; May 1.
Nesbit, Walter F. (See Fuller, H. L., Nesbit, and Petterson.)
Neusella, Albert, assignor of one-half to A. A. Patterson, Chicago, Ill. Liquid for treating fabrics. 1,453,764; May 1.
New Era Manufacturing Company. (See Fanslow, Benjamin O., assignor.)
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Dipper tooth. 1,453,805; May 1.
Nitsch, Charles H., and W. A. Weightman, Logan, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Package-feed mechanism. 1,453,720; May 1.
Noble, Roy L., Sac City, Iowa. Draft equalizer. 1,453,886; May 1.
Nole, Vito, Newark, N. J. Curtain-supporting attachment. 1,453,689; May 1.
Nord, Nels A., Red Wing, Minn. Building block. 1,453,806; May 1.
Norlund, Olof A., Williamsport, Pa. Folding brace. 1,453,989; May 1.
Norton Company. (See Saxe, Charles W., assignor.)
Norwalk, Albert B., New York, assignor of one-half to C. Hubert, White Plains, N. Y. Tire valve. 1,453,721; May 1.
Nuoffer, Otto, New York, N. Y. Sled attachment for carriages and the like. 1,453,722; May 1.
Nutt, Norman W., Trenton, N. J. Electric-lamp fixture or support. 1,453,887; May 1.
Obele, Lawrence T., Philadelphia, Pa. Folding shelf and paper rack. 1,453,598; May 1.
O'Connell, Vincent, New York, N. Y. Toilet accessory. 1,453,690; May 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,453,691; May 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,453,692; May 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,453,693; May 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,453,694; May 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction side bearing. 1,453,695; May 1.
Octave, Anatole, Herblay, France. Automatic machine for grinding the saw blades with revolving grinding wheels. 1,453,765; May 1.
O'Hara, J. Carl, et al. (See Donaldson, Elizabeth C., assignor.)
Oldham, George, and Son Company. (See Oldham, Samuel, assignor.)
Oldham, Samuel, assignor to George Oldham and Son Company, Philadelphia, Pa. Tool retainer. 1,453,807; May 1.
Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
Olsen, Victor O., assignor to Charles McAdam Company, Chicago, Ill. Composition for use in finishing dry-cleaned leather. 1,453,723; May 1.
O'Neill, Richard J., assignor of one-half to F. S. McNamara, Denver, Colo. Smokestack cover. 1,453,477; May 1.
Ormiston, Gilbert J., Chicago, Ill. Spur. Des. 62,305; May 1.
Osborn, Alden E., New York, N. Y. Cone-gear transmission mechanism. 1,453,478; May 1.
Otterbein, Ferdinand D. (See Butterfield, E. H., and Otterbien.)
Owens Bottle Company, The. (See Ferngren, E. T., and Soubier, assignors.)
Owens Bottle Company, The. (See Rule, John F., assignor.)
Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)
P & M Company, The. (See Poor, Fred A., assignor.)
Pabst, Fred, Company. (See Fay, Joseph W., assignor.)
Paca, William S., Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-distributing system. 1,453,321; May 1.
Pace, Raffaele. (See D'Alessandro, D., and Pace.)
Pachter, Peter, Chicago, Ill. Tipping and wrapping machine. 1,453,636; May 1.
Packard Motor Car Company. (See Druar, Frank J., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Page, Victor W., Kew Gardens, N. Y. Lubricator for intermediate gearing. 1,453,991; May 1.
Page, Victor W., Kew Gardens, N. Y. Tilting steering wheel. 1,453,990; May 1.
Pagelsen, Edward N., assignor to E. H. Vincent, Detroit, Mich. Tilting locking steering wheel. Re15,587; May 1.
Palin, Arthur J., Pawtucket, R. I. Warper seat. 1,453,992; May 1.
Palmer, Richard, South Alburg, Vt. Rail tie. 1,453,322; May 1.
Palmeter, William E., Elmwood, Nebr. Mixing apparatus. 1,453,323; May 1.
Park, Henry A., South Roanoke, Va. Window screen. 1,453,280; May 1.
Parker, Burton H., Detroit, Mich., assignor to Trimont Manufacturing Company, Roxbury, Mass. Pipe wrench. 1,453,854; May 1.
Parker, Clark W., New York, N. Y. Friction disk. 1,453,599; May 1.
Parker, M. L., et al. (See Craver, Thomas G., assignor.)
Parrella, Joseph A., Washington, D. C. Resilient heel. 1,453,403; May 1.
Parsons, Leon W. (See Wilson, R. E., Parsons, and Chisholm.)
Parsons, Theophilus, Camp Dodge, Iowa, assignor to C. B. Brophy, Rye, N. Y. Phonograph stylus. 1,453,637; May 1.
Patterson, Arthur A. (See Neusella, Albert, assignor.)
Patterson, Charles C. (See Winner, W. E., and Patterson.)
Payne, Elmer H., and S. A. Montgomery, Woodriver, Ill., assignors to Standard Oil Company, Whiting, Ind. Catalyst and making the same. 1,453,766; May 1.
Payson, Joseph R., Chicago, Ill. Gas holder. 1,453,516; May 1.
Payton, Calvin, Douglas, Ariz., assignor of fifty-five one-hundredths to Phelps Dodge Corporation. Metallurgical refractory material and producing the same. 1,453,993; May 1.
Pedroarena, Urbano, Gardnerville, Nev. Cultivator and harrow. 1,453,944; May 1.
Pelton, Clyde S., Cleveland Heights, Ohio, assignor to The Perfection Heater and Manufacturing Company, Cleveland, Ohio. Heater for motor-propelled vehicles. 1,453,855; May 1.
Penksa, Stanley, Long Island City, N. Y. Duplicate tag. 1,453,517; May 1.
Pennsylvania Textile Mills Inc., The. (See Ericson, E., and Weiss, assignors.)
Perfection Heater and Manufacturing Company, The. (See Pelton, Clyde S., assignor.)
Perigo, Everett J. (See Wolbert, Everett D., assignor.)
Perkins, Robert W., Norwich, Conn. Brake. 1,453,600; May 1.
Perry, Cyril S. D., Port Arthur, Ontario, Canada. Boiler superheater. 1,453,638; May 1.
Persch, John P., Houston, assignor of one-fifth to B. Tolles, Ho-ho-kus, Tex. Treating hydrocarbon oils. 1,453,479; May 1.
Persons, William F., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Lamp-bulb-tilting device. 1,453,281; May 1.
Peters, Carl, Sherburn, Minn. Automatic door latch. 1,453,282; May 1.
Peterson, Alfred G. S., Los Angeles, Calif. Tiled sink and drain board. 1,453,945; May 1.
Peterson, Simon. (See Johnson, E., and Peterson.)
Petroleum Research and By-Products Company. (See Berry, Harold R., assignor.)
Petterson, Per O. (See Fuller, H. L., Nesbit, and Petterson.)
Pfluger, Frank X., Portland, Oreg. Wooden tub. 1,453,994; May 1.
Phelps Dodge Corporation. (See Payton, Calvin, assignor.)
Phelps, Philip M. M. (See Allen, E. E., and Phelps.)
Phillips, Paul D. (See Benjamin, R. B., and Phillips.)

Picklo, Valentine, assignor of one-half to G. Walat, Johnstown, Pa. Car coupling. 1,453,404; May 1.
Pine, Harry B., and C. W. Cisney, Phoenix, Ariz. Combined cabinet and table. 1,453,946; May 1.
Platt, Ocron S., Bridgeport, Conn. Bottle capper. 1,453,405; May 1.
Plaugher, Eli P. (See Berg, Fred C., assignor.)
Pohrt, Henry O., Flint, Mich. Tool holder. 1,453,047; May 1.
Poor, Fred A., assignor to The P & M Company, Chicago, Ill. Rail anchor. Re15,593; May 1.
Pottala, John, Fitchburg, Mass. Sled. 1,453,948; May 1.
Powell, Edwin L., and C. E. Motto, Washington, D. C. Grid leak. 1,453,724; May 1.
Powell, Milton W., Baltimore, Md. Stopper. 1,453,601; May 1.
Powers, Leland. (See Price, David R., assignor.)
Powers, Timothy B., Brooklyn, assignor, by mesne assignments to Turn-O-Stop Manufacturing Corporation, Inc., New York, N. Y. Signal for vehicles. Re15,594; May 1.
Pratt, George R., Richmond, Va. Portable drinking fountain. 1,453,725; May .
Prest-O-Lite Co. (See Gossling, Walter E., assignor.)
Price, David R., assignor of one-half to L. Powers, Newtonville, Mass. Liquid-level indicator. 1,453,602; May 1.
Price Engine Corporation. (See Price, William T., assignor.)
Price, William T., Easton, Pa., assignor to Price Engine Corporation. Main bearing. 1,453,518; May 1.
Privett, Charles B., et al. (See Privett, Henry C., assignor.)
Privett, Helen E., et al. (See Privett, Henry C., assignor.)
Privett, Henry C., Long Beach, assignor of one-half to C. R. Privett, Burbank, three-sixteenths to H. E. Privett and one-sixteenth to H. F. Privett, Long Beach, Calif. Inner tube. 1,453,949; May 1.
Privett, Hollis F., et al. (See Privett, Henry C., assignor.)
Prouty, Theodore C., Los Angeles, assignor to Prontyline Products Company, Hermosa Beach, Calif. Insulating composition and making same. 1,453,726; May 1.
Prontyline Products Company. (See Prouty, Theodore C., assignor.)
Puhakka, Emil, Hancock, Mich. Shoe. 1,453,950; May 1.
Pumphrey, Willard V., Oakland, Calif. Adjustable license-plate holder. 1,453,727; May 1.
Purposed Mind Development Security Association of the World. (See McGahan, Frederick L., assignor.)
Purtle, Albert D., Marietta, Ohio. Brass-liner stuffing-box head. 1,453,324; May 1.
Purvis, Thomas E., Tekamah, Nebr. Workholder. 1,453,406; May 1.
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,306; May 1.
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,307; May 1.
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,308; May 1.
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,309; May 1.
Rairden, James S., Waterford, Calif. Safety device for tractors. 1,453,995; May 1.
Ramsey, George, Brooklyn, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Paper closure. 1,453,283; May 1.
Randall, Winfield E., Kyota, Minn. Chicken roost. 1,453,569; May 1.
Rastetter, William C., Fort Wayne, Ind. Steering wheel. 1,453,808; May 1.
Rawls, Archie M., Dixon, Ill. Alcohol flame intensifier. 1,453,519; May 1.
Rawson, Jerome S., et al. (See Smith, William J., assignor.)
Raymond, John M., New Orleans, La. Flying-machine propeller. 1,453,951; May 1.
Redfern, Alfred E. (See Redfern, Winifred V. and A. E.)
Redfern, Charles E. (See Redfern, Winifred V. and A. E., assignors.)
Redfern, Winifred V. and A. E., assignors of one-third to C. E. Redfern, Victoria, British Columbia, Canada. Finger guard for the line-space and carriage-return levers of typewriters. 1,454,014; May 1.
Redman, Charles H., East Orange, N. J., assignor to Boker Cutlery & Hardware Company, Inc., New York, N. Y. Pruning shears and other implement. 1,453,603; May 1.
Reece, Joseph A. (See Bowley, C. A., and Reece.)
Reed, Burton I., Concord, N. H. Badge or button. Des. 62,293; May 1.
Reed, C. E., (See Cedillo, Nicasio, assignor.)
Reese, Charles C., San Francisco, J. T. Buzzo, Oakland, and R. S. Woodford, Crockett, Calif. Sugar-packing machine. 1,453,767; May 1.
Reilly, Alfred F., North Attleboro, Mass. Vanity case. Des. 62,310; May 1.
Repath, Charles J., Los Angeles, Calif. Flour sifter. 1,453,604; May 1.
Retz, Henry, et al. (See Misner, Edgar D., assignor.)
Retzbach, Edward J., St. Louis, Mo., assignor to Mojonnier Bros. Co., Chicago, Ill. Ice-cream-bricking machine. 1,453,407; May 1.
Rhodes, Fernand J., Paris, France. Means for devising ornamental designs. 1,453,728; May 1.
Rice & Adams Corporation. (See Wolf, Frank F., assignor.)
Rich, Curtis W. (See Giuffre, J., and Rich.)
Richardson, Hamitage L., Sebringville, Ontario, Canada. Tatting shuttle. 1,453,639; May 1.
Richardson, William, San Francisco, Calif. Horizontally-moving window for automobiles. 1,453,520; May 1.
Richmond Lace Works. (See Radford, George, assignor.)
Richmond Lace Works. (See Seel, Hans, assignor.)
Riddle, George W., Chicago, Ill. Composite structure. 1,453,996; May 1.
Riedele, Philip, Los Angeles, Calif. Bumper-bar-supporting bracket. 1,453,521; May 1.
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Gridland Company, Dayton, Ohio. Self-lowering jack. 1,454,029; May 1.
Rivet, Joseph H., Woonsocket, R. I. Telephone bracket or support. 1,453,997; May 1.
Rivkind, George. (See Jacobucci, Raphael, assignor.)
Robbins, William T., Mayfield, Ky. Animal-control-feeder. 1,453,768; May 1.
Robe, Eugene A., New Concord, Ohio. Receptacle. 1,453,284; May 1.
Roberts, Daniel M., Homestead, Fla. Harrow and scarifier. 1,453,908; May 1.
Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Coke oven. 1,453,605; May 1.
Rockwell, Edward A., New York, N. Y., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation. Means for supporting vacuum feeding systems. 1,453,729; May 1.
Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Manufacture of antifriction bearings. 1,453,366; May 1.
Rogers, Harold W., Schenectady, N. Y., assignor to General Electric Company. Control of dynamo-electric machines. 1,453,522; May 1.
Rogers, John A. S. (See Lowrey, John R., assignor.)
Rogers, Wm. A., Limited. (See Thompson, W., and Jameson, assignors.)
Rogge, William E., Gulfport, Miss. Operating means for window sashes. 1,453,523; May 1.
Rohne, Even J., Minneapolis, Minn. Tire vulcanizer. 1,453,889; May 1.
Ropp, Frank A., Smithton, Pa. Wire splicer. 1,453,524; May 1.
Ross, James, assignor to Advance-Rumely Company, LaPorte, Ind. Adjustable front axle. 1,453,525; May 1.
Rowley, Clifford A., and J. A. Reece, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for cutting sheet glass. 1,453,856; May 1.
Royal Typewriter Company. (See Hess, E. B., and Myers, assignors.)
Royer, George F., Wilkes-Barre, Pa. Air-hose stand. 1,453,999; May 1.
Ruberoid Company, The. (See Abraham, Herbert, assignor.)
Rule, John F., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for gathering and transferring molten glass. 1,453,285; May 1.
Russell, Charles P., Brandon, Manitoba, Canada. Electric heater for washing machines. 1,453,640; May 1.
Ruth, Joseph P., jr., Denver, Colo. Grinding mill. 1,453,408; May 1.
Ryan, Albert J., Cincinnati, Ohio. Forming box toes for shoes. 1,453,526; May 1.
Sacksteder, Andrew H., Tiffin, Ohio. Washing machine. 1,453,606; May 1.
Samanich, Andrew, Los Angeles, Calif. Lock bolt. 1,453,952; May 1.
Sanders, Walter E., assignor to Essex Rubber Company, Trenton, N. J. Shipping container. 1,453,480; May 1.
Sandvoss, Hermann, Frankfort-on-the-Main, Germany. Thermostat. 1,453,769; May 1.
Sartain, Louis M., Pelham, Tenn. Rail fastener. 1,453,641; May 1.
Saucier, Henry L., Providence, R. I. Ratchet socket wrench. 1,453,607; May 1.
Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,453,857; May 1.
Saxe, Charles W., assignor to Norton Company, Worcester, Mass. Ceramic ware and making same. 1,454,000; May 1.
Schipplock, Charles J., and J. C. Kessler, Chicago, Ill. Pie cutter. 1,453,367; May 1.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Power-developing apparatus. 1,453,858; May 1.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical precipitation of suspended material from gases. 1,453,325; May 1.
Schmitz, William, New York, N. Y. Combination lock. 1,453,642; May 1.
Schneider, Frank G., Brooklyn, N. Y. Voice for dolls. 1,453,527; May 1.
Schneider, William N., Cincinnati, Ohio. Angle-iron machine. 1,453,953; May 1.

Schoenbrun, Arthur, assignor to Magnum Import Co., Inc., New York, N. Y. Stoppered liquid container. Des. 62,311; May 1.
Schofield, Henry N., Frederick, Md. Cooler attachment for engines. 1,453,528; May 1.
Scholtes, Albert J., Mobile, Ala. Chassis brace. 1,453,054; May 1.
Schommer, Frank. (See Schuetz, Michael, assignor.)
Schuerg, William, Menard, Tex. Truss. 1,453,570; May 1.
Schuetz, Michael, assignor of one-fourth to F. Schommer, Sheboygan, Wis. Animal trap. 1,454,015; May 1.
Schwab, Charles E., Lyons, N. Y. Combined chute and bag holder. 1,453,286; May 1.
Scott, Clinton A., Chicago, Ill. Razor-blade holder. 1,453,409; May 1.
Scott Paper Company. (See Tong, J. T., and Blosser, assignors.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Seel, Hans, Hopkinton, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,312; May 1.
Seeley, Halstead H., assignor to Motor Products Corporation, Detroit, Mich. Windshield-pivot construction. 1,453,955; May 1.
Seiz, Walter, Baden, Switzerland, assignor to General Electric Company. Compound regulating set for induction motors. 1,453,529; May 1.
Sellers, Harvey A., Decatur, Ill. Kite. 1,453,287; May 1.
Sentrop, Johannes T., jr., Montreal, Quebec, Canada. Motor and other cycle. 1,453,326; May 1.
Sharp, Joseph W., Philadelphia, Pa. Gas burner. 1,453,327; May 1.
Shearer, Harry T., Waynesboro, Pa. Reaming tool for truing valve seats. 1,453,643; May 1.
Sheet Steel Products Company. (See Baxter, Kenneth S., assignor.)
Shields, Roland, Baltimore, Md. Combined license-plate, tail-light and signal-light bracket. 1,453,770; May 1.
Shigley, Cyrus C., Grand Rapids, assignor to Electric Phonograph Company, Kalamazoo, Mich. Speed-regulating device. 1,453,890; May 1.
Shuey, Willis A., Boise, Idaho. Pneumatic-tire attachment. 1,453,530; May 1.
Siddall, Wilbur H. (See McKinstry, G. W., and Siddall.)
Signode System, Inc. (See Guenther, Arthur G. G., assignor.)
Sirot, Harry, New York, and H. Sirot, Brooklyn, N. Y. Collar button. 1,453,809; May 1.
Sirot, Hyman. (See Sirot, Harry and H.)
Sivley, Joseph W., Trinity, Ala. Cultivator fender. 1,453,891; May 1.
Skinner Machinery Company. (See McIntyre, Allan H., assignor.)
Sleen, Otto, Rocky Mountain House, Alberta, Canada. Tree protector. 1,453,810; May 1.
Sleeper & Hartley, Inc. (See Blount, Arlington A., assignor.)
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,453,410; May 1.
Slye, John Q. (See Bishop, S. H., and Slye.)
Small, James A., Youngstown, Ohio. Annealing sheet iron. 1,453,411; May 1.
Smillie, James, Stretford, England, assignor to Westinghouse Electric & Manufacturing Company. System of ventilation. 1,453,328; May 1.
Smith, Gerald F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,453,412; May 1.
Smith, Jay H., Rochester, N. Y. Receptacle opener. 1,453,956; May 1.
Smith, Joseph N., & Co. (See Kopp, William, assignor.)
Smith, Peter E., Philadelphia, Pa. Underfeed stoker. 1,453,892; May 1.
Smith, Richard C., Seattle, Wash. Lantern-slide projecting apparatus. 1,453,893; May 1.
Smith, William J., assignor of one-fourth to J. S. Rawson and one-fourth to J. A. H. Colgan, New York, N. Y. Automobile lock. 1,453,531; May 1.
Smithers, William E. G., Kingston-on-Thames, England. Cinematograph machine adapted for advertising purposes. 1,454,001; May 1.
Snodgrass, Charles W., et al., trustees. (See Snodgrass, C. W., and Whitmoyer, assignors.)
Snodgrass, Charles W., Denver, Colo., and W. R. Whitmoyer, Detroit, Mich., assignors to R. O. Bolles, C. W. Snodgrass, and W. R. Whitmoyer, trustees of S. & W. Transmission Association, Denver, Colo. Gear transmission. 1,453,413; May 1.
Snowman, William D., Ashland, Me. Tool-handle remover. 1,453,288; May 1.
Snyder, Edward H., Salt Lake City, Utah. Separating zinc and lead. 1,453,289; May 1.
Society of Chemical Industry in Basle. (See de Montmollin, G., Spieler, and Bonhôte, assignors.)
Soubier, Leonard D. (See Ferngren, E. T., and Soubier.)
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Method of and means for feeding molten glass. 1,453,290; May 1.
Southern Glass Company. (See Marble, William B., assignor.)
Sparkes, Harry P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. 1,453,414; May 1.
Speer, Victor. (See Litchfield, E. C. and H. L., and Speer.)
Spencer, Andy O., Sheffield, Ala. Boltless rail joint. 1,453,957; May 1.
Spiegel, Chris F. H., Hamburg, Iowa. Heater for water tanks. 1,453,481; May 1.
Spieler, Josef. (See de Montmollin, G., Spieler, and Bonhôte.)
Sprague Canning Machinery Company. (See Holmquist, August, assignor.)
Sprague, William A., Islington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe stretcher. 1,453,608; May 1.
Spring Stopper Company. (See Glaspey, Warren E., assignor.)
Springer, John. (See Dickinson, F. S., and Springer.)
Square D Company. (See Ball, A. P., and Zenker, assignors.)
Stack, George E., Ballston Spa, N. Y., assignor to General Electric Company. Electromagnet and control therefor. 1,453,555; May 1.
Staehelin, Emil, Chicago, Ill. Wrench. 1,453,730; May 1.
Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible dispensing tube. 1,453,415; May 1.
Stahle, Gustaf. (See Bergström, Johan E., assignor.)
Staley, Allen C., assignor to Standard Engineering Company, St. Louis, Mo. Regulator for systems of apparatus. 1,453,291; May 1.
Standard Engineering Company. (See Staley, Allen C., assignor.)
Standard Oil Company. (See Payne, E. H., and Montgomery, assignors.)
Standard Optical Company, The. (See Van Tassel, John R., assignor.)
Standard Steel and Bearings Incorporated. (See Rockwell, Hugh M., assignor.)
Stanley, Robert L., Richmond, Me. Organ blower. 1,453,416; May 1.
Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Roller-skate roll. 1,453,894; May 1.
Starkweather, Oscar H., Needham, Mass. Snowplow. 1,453,811; May 1.
St. Claire, Ethelbert M. (See Farnsworth, A. J., and St. Claire.)
Steen, Buford J., Christine, Tex. Pipe wrench. 1,450,016; May 1.
Steffa, Homer I., Chicago, Ill. Heat-exchange apparatus. 1,453,292; May 1.
Stephenson, George E., Chicago, Ill. Display light. 1,453,731; May 1.
Stephenson, William M., Dallas, Tex. Oil-saver device. 1,453,293; May 1.
Stevens, Adelbert L. (See Genthner, T. E., and Stevens.)
Stevens, Clarence S., Sheboygan, Wis. Milk product and making the same. 1,453,859; May 1.
Stevens, Frederick R., Schenectady, N. Y. Steam-engine-valve-reversing gear. 1,453,532; May 1.
Stevens, William N., Madison, Ill., assignor to Gisholt Machine Company, Madison, Wis. Automatic machine tool. 1,453,732; May 1.
Stevenson, Earl P., Newton, Mass. Treating phosphate rock. 1,453,571; May 1.
Stewart, Hancle L. (See Gaddis, William E., assignor.)
Stewart-Warner Speedometer Corporation. (See Rockwell, Edward A., assignor.)
Stokes & Smith Company. (See Nitsch, C. H., and Weightman, assignors.)
Stone, John M., Carrizo Springs, Tex. Detachable hub for eccentrics. 1,453,417; May 1.
Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Machine for grinding crank pins. 1,453,572; May 1.
Stover, Harmon E. (See Sykes, J. P., and Stover.)
Stowell, Byron F., assignor to Metal Saw and Machine Co., Inc., Springfield, Mass. Band-cutter cutting machine. 1,453,609; May 1.
Strohacker, Louis, assignor to Structo Manufacturing Company, Freeport, Ill. Loom reed. 1,453,533; May 1.
Stromberg-Carlson Telephone Manufacturing Company. (See Paca, William S., assignor.)
Structo Manufacturing Company. (See Strohacker, Louis, assignor.)
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Submarine Signal Company. (See Williams, Robert L., assignor.)
Swift, Clement K., Highland Park, assignor of one-half to M. I. Hartman and A. Hartman, Philadelphia, Pa., trading as H. S. Laboratory. Stopcock remover. 1,453,895; May 1.
Sykes, John P., Wallingford, and H. E. Stover, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Jig for assembling locomotive frames. 1,453,896; May 1.
Taggart, Joseph W., Watertown, N. Y. Paper-bag-bottoming machine. 1,453,294; May 1.
Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)
Taylor, Huston, assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich. Demountable-rim lock. 1,453,295; May 1.
Taylor, Lewis B., Gooding, Idaho. Automatic retainer for haystackers. 1,453,771; May 1.

Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. 1,454,020; May 1.
Tessmer, John A., Worcester, Mass. Hypodermic syringe. 1,453,418; May 1.
Teves, Frederick W., East Elmhurst, assignor of one-half to A. H. Green, New York, N. Y. Speed regulator for automobiles. 1,453,368; May 1.
Teves, Frederick W., East Elmhurst, assignor of one-half to A. H. Green, New York, N. Y. Speed regulator for automobiles. 1,453,369; May 1.
Thacher, George H., jr., North Providence, R. I. Stoker. 1,453,482; May 1.
Thacher, George H., jr., North Providence, R. I. Stoker. 1,453,483; May 1.
Thacher, George H., jr., North Providence, R. I. Stoker grate. 1,453,484; May 1.
Thexton, Henry A., assignor to Thexton Manufacturing Company, Minneapolis, Minn. Door latch and lock. 1,453,556; May 1.
Thexton Manufacturing Company. (See Thexton, Henry A., assignor.)
Thomas, Arthur, Bailey, Mich., assignor to Triumph Trap Co., Inc., Oneida, N. Y. Trap placer. 1,453,812; May 1.
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Dashpot. 1,453,733; May 1.
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,453,370; May 1.
Thomas, Haynes L., Brunswick, Ga. Saw set. 1,453,958; May 1.
Thomas, Henry, Cleveland, Ohio. Refining iron and steel. 1,453,734; May 1.
Thomas, Paul R., Berkeley, Calif. Brush holder. 1,453,959; May 1.
Thompson, Wilfred, and W. R. Jameson, assignors to Wm. A. Rogers, Limited, Niagara Falls, N. Y. Electroplating apparatus. 1,453,419; May 1.
Thornton, James L., Camp Hill, Pa. Litter carrier. 1,453,610; May 1.
Tiemann, George, & Company. (See Lo Giudice, Domenick, assignor.)
Tiffin Products, Inc. (See Ensign, William S., assignor.)
Tingle, William R., Charlotte, N. C. Necktie holder. 1,453,644 May 1.
Toledo Scale Company. (See Bergen, Harry S., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Toledo Scale Company. (See Thomas, Edward G., assignor.)
Tolia, Theodore and E. W. Boots, Ellwood City, Pa. Automatic cut-off for gas lines. 1,453,573; May 1.
Tolles, Brainard. (See Perrch, John P., assignor.)
Tolston, Elbert M., Macon, Ga. Railway-crossing signal. 1,453,420; May 1.
Tong, James T. and J. E. Blosser, Chester, Pa., assignors to Scott Paper Company. Absorbent-cotton substitute for medical bandages. 1,453,575; May 1.
Topliff-Ely Company. (See Hawkinson, Axel W., assignor.)
Townsend, Mary I., Seattle, Wash., assignor of two-thirds to W. B. Van Valin, Los Angeles, Calif. Toy figure. Des. 62,294; May 1.
Trachtenberg, Samuel, Cleveland, Ohio. Mechanical flag-waving device. 1,453,772; May 1.
Trimont Manufacturing Company. (See Parker, Burton H., assignor.)
Triumph Trap Co. (See Thomas, Arthur, assignor.)
Trotzer, Zoltan, Budapest, Hungary. Electric water heater. 1,453,574; May 1.
Troy Laundry Machinery Company Ltd. (See Adland, V. E., and Kamper, assignors.)
Troy Laundry Machinery Co. (See Hoting, Hans C., assignor.)
Turn-O-Stop Manufacturing Corporation. (See Powers, Timothy B., assignor.)
Twining, Ralph H., Marquette, Mich. Distillation apparatus. 1,453,735; May 1.
Ulp, Alfred R., Pasadena, Calif. Spring-lubricating protector. 1,453,421; May 1.
Union Special Machine Company. (See Kershner, Benjamin V., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See Wells, Wesley B., assignor.)
United Chemical and Organic Products Company. (See Howell, Sylvester S., assignor.)
United Printing Machinery Company. (See Upham, B. F., Belluche, and Hornig, assignors.)
United Shoe Machinery Corporation. (See Bates, A., and Minett, assignors.)
United Shoe Machinery Corporation. (See Holmgren, Eric A., assignor.)
United Shoe Machinery Corporation. (See Sprague, William A., assignor.)
United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)
Universal Safety Washout Plug Company. (See Cashmer, Jacob, assignor.)
Upham, Burt F., Brookline, R. Belluche, Mansfield, and K. F. Hornig, Ameebury, assignors to United Printing Machinery Company, Boston, Mass. Mechanism for transferring and timing sheets. 1,453,773; May 1.
Van de Pol, Alfons H., assignor of one-half to J. J. Bridgeford, Philadelphia, Pa. Furnace construction. 1,453,960; May 1.
Vanderbilt, R. T., Company. (See Murrill, Paul L., assignor.)
Vanderhoef, Ellison E., Jerome, Ariz., assignor to American Manganese Steel Company, Chicago, Ill. Dipper front. 1,453,813; May 1.
Van Etten, Frank C., assignor to Delta-Star Electric Company, Chicago, Ill. High-tension cut-out system and the like. 1,453,774; May 1.
Van Tassel, John R., assignor to The Standard Optical Company, Geneva, N. Y. Lens mounting. 1,453,814; May 1.
Van Valin, William B. (See Townsend, Mary I., assignor.)
Vedder, John W., Worcester, Mass. Slat drier for drying paper. 1,453,645; May 1.
Verniaud, Claudius, deceased, by C. J. Verniaud, administratrix, assignor, by mesne assignments, to G. M. C. Metallic Grease Co., Quincy, Ill. Lubricant. 1,454,002; May 1.
Verniaud, Clotilde J., administratrix. (See Verniaud, Claudius.)
Vickers Limited. (See Dawson, A. T., Buckham, and Haskell, assignors.)
Vincent, Edward H. (See Pegelsen, Edward N., assignor.)
Vincent, Franz, Bridgeport, Conn. Pocketknife. 1,453,897; May 1.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,453,646; May 1.
Viser, William M., Louisville, Ky. Public trash receptacle. Des. 62,313; May 1.
Vonderharr, Frank J., Granville, Iowa. End gate. 1,454,003; May 1.
Vosburgh, John R., Johnstown, N. Y. Repair plug for inner tubes. 1,453,485; May 1.
Wagner, Albert, assignor to Wagner Research Society, Cincinnati, Ohio. Auxiliary air valve for internal-combustion engines. 1,453,296; May 1.
Wagner, Andrew, West Hoboken, assignor to Ferguson Brothers Mfg. Co., Hoboken, N. J. Table. 1,453,736; May 1.
Wagner Research Society. (See Wagner, Albert, assignor.)
Wagner, William F., Washington, D. C. Masonry structure. 1,453,557; May 1.
Wakefield, F. W., Brass Company, The. (See Wakefield, Frederick W., assignor.)
Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Lamp for automobiles and the like. 1,453,534; May 1.
Walat, Gregor. (See Picklo, Valentine, assignor.)
Walden, Frederick E., Worcester, Mass., assignor, by mesne assignments, to Walden-Stax Manufacturing Co., Stoneham, Mass. Wrench. 1,453,898; May 1.
Walden-Stax Manufacturing Co. (See Walden, Frederick E., assignor.)
Walkenhorst, Hermann, Milton, Ky. Hatpin fastener. 1,453,422; May 1.
Walker, Chester E., Peoria, Ill. Prie dieu. Des. 62,314; May 1.
Walker, Viola K., administratrix. (See McGahan, Frederick L.)
Waildow, Carl, San Jose, Calif. Sack holder. 1,453,961; May 1.
Wappler Electric Co. (See Fayer, Charles, assignor.)
Wappler, Reinhold H., Yonkers, N. Y., assignor to American Cystoscope Makers, Inc. Lamp mounting for certain optical instruments. 1,453,207; May 1.
Ward Leonard Electric Company. (See Camp, George W., assignor.)
Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
Ware, Raymond, Ithaca, N. Y. Mechanical movement. 1,453,815; May 1.
Waterbor, Elmer F., assignor to Michigan Malleable Iron Company, Detroit, Mich. Vehicle wheel. 1,453,371; May 1.
Waterman, William A., Exeter, Calif. Distributing-gate machine. 1,453,647; May 1.
Watertown Bag Machine Co., The. (See Coty, Alfred C., assignor.)
Watson, John E., Philadelphia, Pa. Attachment device for electric fixtures. 1,453,860; May 1.
Way, William H., Ankeny, Iowa. Hen's nest. 1,453,558; May 1.
Weaver, John R., Baltimore, Md. Rope guide. 1,453,576; May 1.
Webb, Benjamin F., assignor to Webb Multispeed Winch Manufacturing Company, Sistersville, W. Va. Winch. 1,453,559; May 1.
Webb Multispeed Winch Manufacturing Company. (See Webb, Benjamin F., assignor.)
Weidborn, Isidore A. (See Weiss, Morris, assignor.)
Weigel, Daniel M., London, England. Internal-combustion engine. 1,453,423; May 1.
Weightman, William A. (See Nitsch, C. H., and Weightman.)
Weiss, Morris, New York, assignor of one-half to I. A. Weidhorn, Lynbrook, N. Y. Pivot button. 1,454,004; May 1.
Weiss, Roger. (See Ericson, E., and Weiss.)

Weitling, William W., College Point, N. Y. Battery jar. Des. 62,295; May 1.
Wells, Wesley B., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,453,535; May 1.
Wells, William A. (See Lawrence, Walter H., assignor.)
Welpley, Walter W., Detroit, Mich. Toothbrush holder. 1,453,816; May 1.
Wendling, George X., San Francisco, Calif. Foldable shipping box. 1,453,611; May 1.
Wentworth, Jesse S., Norwood, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Starting and stopping mechanism. 1,453,298; May 1.
Wenzel, Nicolas, Twin Falls, Idaho. Regulating transformer. 1,454,005; May 1.
Werk, F. C., et al. (See Cowin, Irving R., assignor.)
Westerby, John. (See Martin, D. B., and Westerby.)
Western Electric Company. (See Dobbin, Henry F., assignor.)
Western Electric Company. (See Kendall, Burton W., assignor.)
Western Precipitation Company. (See Huber, Frederick W., assignor.)
Westinghouse Air Brake Company, The. (See Lane, George S., assignor.)
Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Baumann, Karl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cheetham, George A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanson, Klaus L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jolley, John E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kilgour, David, assignor.)
Westinghouse Electric & Manufacturing Company. (See Labberton, John M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smillie, James, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sparks, Harry P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Williams, Seldon T., assignor.)
Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric coupling for cars. 1,453,817; May 1.
Westwell, Herbert R., Methuen, Mass. Adjustable bearing cap. 1,453,962; May 1.
Wetzel, Eugene, Appleton, Wis. Fluid-tight container and closure therefor. 1,453,299; May 1.
Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Mounting for measuring machines and the like. 1,453,300; May 1.
Wheeler-Schebler Carburetor Co. (See Bessom, Earl A., assignor.)
Whetstine, Walter W., Portland, Oreg. Attachment for internal-combustion engines. 1,453,560; May 1.
White, Arthur J. (See Mitchell, L. E., and White.)
White, Fred G., assignor to L. R. Long, Kansas City, Mo. Signboard. 1,453,536; May 1.
Whiteacre, Joseph G., Vancouver, British Columbia, Canada. Tie fastener. 1,453,648; May 1.
Whitehurst, William E., Midville, Ga. Window shade. 1,453,775; May 1.
Whiting Corporation. (See Gregg, Alfred W., assignor.)
Whitmoyer, Walter R., et al., trustees. (See Snodgrass, C. W., and Whitmoyer, assignors.)
Whitmoyer, Walter R. (See Snodgrass, C. W., and Whitmoyer.)
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermally-controlled switch. 1,454,022; May 1.
Wilkinson, Edwin H., Omaha, Nebr. Ironing table. 1,453,649; May 1.
Willson, Howard C., Worcester, Mass. Base for stools and other furniture. 1,453,650; May 1.
Widell, Magnus E., Maywood, and A. A. Jahr, Forest Park, Ill., assignors to American Can Company, New York, N. Y. End feed for double seamers. 1,453,818; May 1.
Wilberding, Alfred, Jacksonville, Fla. Plant protector. 1,453,963; May 1.
Williams, Brice, Kokomo, Ind. Vending machine. 1,453,424; May 1.
Williams, Brice, Kokomo, Ind. Controlling means for vending machines. 1,453,425; May 1.
Williams, Keith, Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Jig for grinding purposes. 1,453,737; May 1.
Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Selective receiver. 1,453,612; May 1.
Williams, Seldon T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fair-lead or guide for the control cables of aircraft. 1,453,426; May 1.
Willshaw, William, Des Moines, Iowa. Steam pump. 1,453,561; May 1.
Wilmot Engineering Company. (See Meier, Charles F., assignor.)
Wilson Brothers. (See Heaton, Clarence E., assignor.)
Wilson-Jones Loose Leaf Company. (See Fargo, Charles R., assignor.)
Wilson, Robert E., L. W. Parsons, and S. L. Chisholm, Washington; D. C. Production of alkali-earth-metal permanganates. 1,453,562; May 1.
Wilson, Thomas M., Greensburg, Pa. Combination apparatus for drying, burning, and cooling brick. 1,453,919; May 1.
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Wingert, Martha S., Whittier, Calif. Doll. Des. 62,296; May 1.
Winkler, Oscar S., Baltimore, Md. Long-reach tongs. 1,453,301; May 1.
Winner, William E., and C. C. Patterson, Lowell, Mass. Spirit level. 1,453,888; May 1.
Winslow, Edward W., Belle Plaine, Iowa. Phonograph cabinet. 1,453,329; May 1.
Winter, William A. (See Greenberg, G., and Winter.)
Wire Wheel Corporation of America. (See Davison, Walter W., assignor.)
Wire Wheel Corporation of America. (See House, Henry A., jr., assignor.)
Wirebounds Patents Company. (See Davidson, Bruce J., assignor.)
Wiswell, George T., Evanston, assignor to The Wiswell Improved Railroad Crossing Company, Chicago, Ill. Railway crossing. 1,453,776; May 1.
Wiswell Improved Railroad Crossing Company, The. (See Wiswell, George T., assignor.)
Wolbert, Everett D., assignor of one-half to E. J. Perigo, San Francisco, Calif. Crank-case support. 1,453,964; May 1.
Wolf, Frank F., assignor to Rice & Adams Corporation, Buffalo, N. Y. Machine for washing cans and the like. 1,453,738; May 1.
Wolff, Lorenz R., Los Angeles, Calif. Tone-arm support. 1,453,613; May 1.
Wong, Gatt H., Chicago, Ill. Convertible automobile body. 1,453,372; May 1.
Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Tail-cutting device for tubular plates. 1,454,006; May 1.
Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Finishing and cooling apparatus for tubular stereotype printing plates. 1,454,007; May 1.
Wood, Joseph C., assignor of one-fourth to W. M. Lane and one-eighth to W. B. Barger, Jackson, Tenn. Station indicator. 1,453,330; May 1.
Wood Newspaper Machinery Corporation, The. (See Wood, Henry A. W., assignor.)
Woodford, Robert S. (See Reese, C. C., Buzzo, and Woodford.)
Wooldridge, Powhatan J., Oldham County, Ky. Envelope-filling machine. 1,454,008; May 1.
Wright, Elton A., Chicago, Ill. Valve arrangement. 1,453,302; May 1.
Wright, Parvin, Chicago, Ill. Machine for tying bundles of wires. 1,453,820; May 1.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,453,821; May 1.
Yarrow, Harold E., Scotstoun, Scotland. Circulation of water in water-tube boilers. 1,453,965; May 1.
Yaryan, Homer T., St. Petersburg, Fla. Manufacturing plates for artificial dentures. 1,453,303; May 1.
Yensen, Douglas, Roseberry, Idaho. Securing calks to horseshoes. 1,453,890; May 1.
Yungstrom, Knut E., White Plains, N. Y. Repeating mechanism for phonographs. 1,453,966; May 1.
Zachow, Otto, Clintonville, Wis. Device for grinding water meters. 1,454,009; May 1.
Zamora, Ernesto, Eva, Tex. Windmill governor. 1,453,427; May 1.
Zeman, Mathew, Cleveland, Ohio. Steel sash connection. 1,453,822; May 1.
Zenke, Henry C., Richmond Hill, N. Y. Metal-molding apparatus. 1,453,861; May 1.
Zenker, Fredrick. (See Ball, A. P., and Zenker.)
Zimmerman, Arthur, Brooklyn, N. Y. Household utensil. 1,453,777; May 1.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1st DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. F. W. Browning. 1,453,742; May 1.
Accelerator, Foot. A. M. Alexander. 1,453,651; May 1.
Accelerators, Making vulcanization. P. I. Murrill. 1,453,515; May 1.
Acoustic device. H. D. Brown. 1,453,969; May 1.
Acoustic method and apparatus. R. A. Fessenden. 1,453,316; May 1.
Advertising box, Folding. F. X. List. 1,453,849; May 1.
Advertising device. T. G. Craver. 1,453,755; May 1.
Aeroplane suspension. H. A. Crawford. 1,453,307; May 1.
Agar-Agar composition and producing the same. C. Matsuoka. 1,453,848; May 1.
Agricultural implement. E. M. Heylman. 1,453,565; May 1.
Agricultural machine. W. McKennitt. 1,453,631; May 1.
Aircraft, Fairlead or guide for the control cables of. S. T. Williams. 1,453,426; May 1.
Airplane. H. Coakley. 1,453,830; May 1.
Air washing and cooling apparatus. P. A. Dennon. 1,453,494; May 1.
Alcohol flame intensifier. A. M. Rawls. 1,453,510; May 1.
Alcoholic liquid, Process and apparatus for the manufacture of nonpotable. F. de M. Accioly. 1,452,374; May 1.
Alkali-earth-metal permanganates, Production of. R. E. Wilson, L. W. Parsons, and S. L. Chisholm. 1,453,562; May 1.
Alloy and making it, Aluminum-silicon. J. D. Edwards. 1,453,928; May 1.
Ammonium perchlorates, Manufacture of. R. A. Long. 1,453,984; May 1.
Amplifier. E. A. Lefebre. 1,453,879; May 1.
Angle-iron machine. W. M. Schneider. 1,453,953; May 1.
Animal trap. J. C. Bauman. 1,453,615; May 1.
Animal trap. T. J. Ellison. 1,453,342; May 1.
Animal trap. T. M. Hovell. 1,453,795–6; May 1.
Animal trap. M. Schuetz. 1,454,015; May 1.
Annealing sheet iron. J. A. Small. 1,453,411; May 1.
Antiskid device for vehicles. W. H. Krug. 1,453,360; May 1.
Arbor support. E. J. Lees. 1,453,470; May 1.
Attenuation equalizer. R. S. Hoyt. 1,453,980; May 1.
Attenuation, System for attaining uniform. O. B. Blackwell. 1,454,011; May 1.
Auto lock. J. N. McHugh. 1,453,882; May 1.
Automobile body, Convertible. G. H. Wong. 1,453,372; May 1.
Automobile body motion stabilizer. T. J. Fay. 1,453,344; May 1.
Automobile bumper. W. E. Dunston. 1,453,866; May 1.
Automobile light dimmer. C. S. Hash. 1,453,501; May 1.
Automobile lock. W. J. Smith. 1,453,531; May 1.
Automobile signal. N. Browne. 1,453,911; May 1.
Automobile speed regulator. F. W. Teves. 1,453,368–9; May 1.
Automobile theft detector. J. J. Michalski. 1,453,320; May 1.
Automobiles, Air filter for. R. A. J. King. 1,453,627; May 1.
Automobiles, Clutch-controlling mechanism for. J. A. Ewell. 1,453,386; May 1.
Automobiles, Horizontally-moving window for. W. Richardson. 1,453,520; May 1.
Automobiles, Rear-spring support for. H. Knippel. 1,453,467; May 1.
Automobiles, Theft-prevention device for. J. N. Farlow. 1,453,497; May 1.
Automobiles, Turning indicator for. L. T. Bolkesjö. 1,454,012; May 1.
Axle, Adjustable front. J. Ross. 1,453,525; May 1.
Badges or button. B. I. Reed. Des. 62,293; May 1.
Bag. A. J. Farnsworth and E. M. St. Claire. 1,453,549; May 1.
Bag frame. F. A. Fuller. 1,453,455; May 1.
Balancing machine. D. Kilgour. 1,453,844; May 1.
Band-cutter cutting machine. B. F. Stowell. 1,453,609; May 1.
Banking apparatus. C. E. Menor. 1,453,512; May 1.
Barber chair. W. F. Koken. Des. 62,302; May 1.
Barber pole. W. F. Koken. Des. 62,301; May 1.
Barrel-holding device. B. F. Culver and W. H. Doyle. 1,453,547; May 1.
Barrel or keg. G. E. Mittinger. 1,453,883; May 1.
Bassinet. N. I. Mills. 1,453,942; May 1.

Battery-core-making machines, Ejecting mechanism for. J. Graves. 1,453,869; May 1.
Battery jar. W. W. Weitling. Des. 62,295; May 1.
Bearing, Antifriction side. J. F. O'Connor. 1,453,695; May 1.
Bearing box, Adjustable. J. J. Gunn. 1,453,936; May 1.
Bearing cap, Adjustable. H. R. Westwell. 1,453,982; May 1.
Bearing, Lubricated roller side. E. G. Busse. 1,453,700; May 1.
Bearing, Main. W. T. Price. 1,453,518; May 1.
Bearing plates, Shim for center-. C. E. Dath. 1,453,661; May 1.
Bearings, Manufacture of antifriction. H. M. Rockwell. 1,453,366; May 1.
Bed, Invalid. F. B. Bumgardner. 1,453,970; May 1.
Belt pulleys, Oil shield for. A. H. Hebert. 1,453,673; May 1.
Bib and apron or similar article, Combined. M. D. Benson. Des. 62,270; May 1.
Block: *See*—
Building block.
Boiler. E. Cederblom. 1,453,703; May 1.
Boiler superheater. C. S. D. Perry. 1,453,638; May 1.
Boilers, Circulation of water in water-tube. H. E. Yarrow. 1,453,965; May 1.
Boilers, Washout plug for. J. Cashmer. 1,453,916; May 1.
Bolt: *See*—
Lock bolt.
Bottle. M. I. Katz. Des. 62,300; May 1.
Bottle. W. B. Marble. Des. 62,303; May 1.
Bottle capper. O. S. Platt. 1,453,405; May 1.
Bottle closure or cap. R. Murchie. 1,453,514; May 1.
Bottle, Dosage. W. J. Covell. 1,453,444; May 1.
Bottles, etc., Machine for making. W. E. Glaspey. 1,453,759; May 1.
Box: *See*—
Advertising box. Lamp-shade-delivery box.
Bearing box. Shipping box.
Display box.
Brace: *See*—
Chassis brace. Folding brace.
Bracket: *See*—
Bumper-bar-supporting bracket. Fender bracket.
Bracket. A. G. Feldman. 1,453,788; May 1.
Brake. R. W. Perkins. 1,453,600; May 1.
Brake beams, Third or fourth point suspension support mount or bracket for. E. A. Le Beau. 1,453,684; May 1.
Brake equalizer. C. M. Mohler. 1,453,597; May 1.
Brake head, Adjustable. W. C. Hedgcock. 1,453,838; May 1.
Brick, Combination apparatus for drying, burning, and cooling. T. M. Wilson. 1,453,819; May 1.
Bricks, Method of and means for burning. G. E. Luce. 1,453,850; May 1.
Briquetting sawdust, peat, coal dust, and similar pulverous substances. H. A. Mueller. 1,453,988; May 1.
Brush. J. Collier. 1,453,306; May 1.
Brush, Fountain. G. M. Gale. 1,454,023; May 1.
Brush holder. W. E. Keene. Des. 62,289; May 1.
Brush holder. P. R. Thomas. 1,453,959; May 1.
Bucket. F. H. and F. S. Beach. 1,453,540; May 1.
Bucket, Grab. W. J. Eaton. 1,453,027; May 1.
Building block. N. A. Nord. 1,453,806; May 1.
Bumper-bar-supporting bracket. P. Riedele. 1,453,521; May 1.
Burner: *See*—
Gas burner. Oil burner.
Liquid-fuel burner.
Burner. D. Arkwright, jr. 1,453,780; May 1.
Button, Collar. H. and H. Sirot. 1,453,809; May 1.
Button, Pivot. M. Weiss. 1,454,004; May 1.
Cabinet. A. G. Marshall. Des. 62,304; May 1.
Cabinet and table, Combined. H. B. Pine and C. W. Cisney. 1,453,946; May 1.
Cabinet, Steaming. L. Angelus. 1,453,967; May 1.
Calks to horseshoes, Securing. D. Yensen. 1,453,899; May 1.
Call-distributing system. W. S. Paca. 1,453,321; May 1.
Can-heading machine. A. Calleson. 1,453,619; May 1.
Car arrangement, Hopper-. H. S. Hart. 1,453,835; May 1.
Car coupling. V. Picklo. 1,453,404; May 1.

Car-door lock. W. H. Lawrence. 1,453,510; May 1.
Car-door-operating mechanism. A. Campbell. 1,453,701; May 1.
Car-door latch, Dump-. H. S. Hart. 1,453,836; May 1.
Car, Double-tier multiple-unit tank. M. Mauran. 1,453,476; May 1.
Car dump, Kick-back. C. B. Anfindsen. 1,453,331; May 1.
Car, Maximum capacity railway. D. Hindahl. 1,453,675; May 1.
Car, Multiple-unit tank. M. Mauran. 1,453,475; May 1.
Cars, Armament for mail and express. E. A. Gross. 1,453,792; May 1.
Cars, Electric coupling for. H. H. Westinghouse. 1,453,817; May 1.
Carbide and the like, Container or receptacle for. J. C. King. 1,453,508; May 1.
Carburetor. E. A. Besson. 1,453,490; May 1.
Carriages and doll carts, Hood for children's. A. W. Hawkinson. 1,453,871; May 1.
Carriages and the like, Sled attachment for. O. Nuoffer. 1,453,722; May 1.
Carrier: *See*—
Litter carrier.
Case: *See*—
Cigarette case. Vanity case.
Toilet case.
Catalyst and making same. E. H. Payne and S. A. Montgomery. 1,453,766; May 1.
Cathode and making the same, Electron-emitting. J. L. Bradford. 1,453,267; May 1.
Centrifugal separator. S. S. Howell. 1,453,678; May 1.
Ceramic ware and making same. C. W. Saxe. 1,454,000; May 1.
Chain, Drive. C. F. Meier. 1,453,592; May 1.
Chain, Universal conveyer. G. Carstens. 1,453,702; May 1.
Chaplet. C. W. Boulton. 1,454,013; May 1.
Chassis brace. A. J. Scholtes. 1,453,954; Mar. 1.
Check writer. B. O. Fanslow. 1,453,867; May 1.
Chest. D. L. Goodrich. 1,453,935; May 1.
Chicken roost. W. E. Randall. 1,453,569; May 1.
Chuck, Mechanically-operated automatic. G. C. Giddings. 1,453,318; May 1.
Chute and bag holder, Combined. C. E. Schwab. 1,453,286; May 1.
Cigarette case, Dispensing. J. Giuffre and C. W. Rich. 1,453,585; May 1.
Cinematograph machine adapted for advertising purposes. W. E. G. Smithers. 1,454,001; May 1.
Circuit controller, Overload-. C. B. Connely. 1,453,492; May 1.
Clamping mechanism. H. W. Hacker. 1,453,350; May 1.
Cleaner: *See*—
Drain cleaner. Smokestack cleaner.
Clip hook. O. Crosby. 1,453,706; May 1.
Cloth pressing and steaming device. J. Brunelli. 1,453,433; May 1.
Clothes wringers, Automatically-reversing drain board for. E. P. Cowles. 1,453,337; May 1.
Clutch, Overrunning. T. H. Duncombe. 1,453,548; May 1.
Coal or wood carrier. G. M. Lewis. 1,453,629; May 1.
Coffin. E. E. Allen and P. M. M. Phelps. Des. 62,297; May 1.
Coffeepot. V. Benedek. 1,453,489; May 1.
Coiling machine. A. A. Blount. 1,453,431; May 1.
Coloring motors, Process and composition of matter for. F. M. Haldeman. 1,453,457; May 1.
Combination lock. W. Schmitz. 1,453,642; May 1.
Combination tool. J. J. Holscen. 1,453,979; May 1.
Compass, square, etc., Combined. R. H. Johnson. 1,453,625; May 1.
Compressor. J. G. De Remer. Re-15,590; May 1.
Concrete blocks, Making. W. H. Carey. 1,453,746–7; May 1.
Concrete mixer. D. B. Martin and J. Westerby. 1,453,634; May 1.
Concrete-pipe machine. C. F. Buente. 1,453,269; May 1.
Concrete structures, Method of and apparatus for forming. H. C. J. and M. Deeks. 1,453,707; May 1.
Condenser. Electrolytic. C. L. Fortescue. 1,453,388; May 1.
Control system. G. F. Smith. 1,453,412; May 1.
Conveyer, Portable extensible. J. Jessen. 1,453,393; May 1.
Cork, Process of and apparatus for manufacturing articles of comminuted. W. G. Bond. 1,453,617; May 1.
Corner-bead clip. W. C. Coryell. 1,453,973; May 1.
Corrugated board, Machine for making. B. Heinrichs. 1,453,458; May 1.
Cotton cleaning and conditioning machine. J. C. Byers. 1,453,744; May 1.
Counter, Fractional. L. Babos. 1,453,538; May 1.
Counterdrop press, Splash. H. Hellberg. 1,453,390; May 1.
Coupling: *See*—
Car coupling.
Coupling device. L. P. Clutter. 1,453,922; May 1.
Cradle, Boiler-turning. J. Crombie. 1,453,705; May 1.
Cradle, Multitank. M. Mauran. 1,453,474; May. 1.
Crank case support. E. D. Wolbert. 1,453,964; May 1.
Crank pins, Machine for grinding. P. Stoner. 1,453,572; May 1.
Cream separators, Combined milk reservoir and bowl-clamp support for. T. H. Miller. 1,453,802; May 1.
Crutch armrest. J. B. Glowacki. 1,453,790; May 1.
Cue-chalk holder. R. S. Johnson. 1,453,877; May 1.
Cultivator and harrow. U. Pedroarena. 1,453,944; May 1.
Cultivator fender. J. W. Sivley. 1,453,891; May 1.
Current commutator generator, Alternating-. R. E. Hellmund. 1,453,391; May 1.
Curtain rod. G. A. Carlson. 1,453,748; May 1.
Curtain-supporting attachment. V. Nole. 1,453,689; May 1.
Cuspidor, Automatic. E. W. and C. E. Button. 1,453,545; May 1.
Cutter: *See*—
Pie cutter.
Cylinder and piston construction. E. Johnson and S. Peterson. 1,453,981; May 1.
Dart board or like target. E. H. A. Leggatt. 1,453,396; May 1.
Dashpot. E. G. Thomas. 1,453,733; May 1.
Denicoholizing process and apparatus. G. Engel, sr. 1,453,313; May 1.
Dentures, Manufacturing plates for artificial. H. T. Yaryan. 1,453,303; May 1.
Detonator composition. B. Grotta. 1,453,970; May 1.
Dice. H. D. Mosauer and L. Laub. 1,453,762; May 1.
Dipper front. E. E. Vanderhoef. 1,453,813; May 1.
Dipper tooth. W. G. Nichols. 1,453,805; May 1.
Direction indicator. H. L. Arnold. 1,453,902; May 1.
Dishes, Rinsing holder for. W. E. Burnham. 1,453,437; May 1.
Disk, Friction. C. W. Parker. 1,453,599; May 1.
Dispensing container. W. J. Covell. 1,453,445; May 1.
Dispensing tube, Collapsible. B. E. D. Stafford. 1,453,415; May 1.
Display box. C. E. Heaton. 1,453,672; May 1.
Display folder. C. C. Fleming and H. L. Myers. 1,453,833; May 1.
Display light. G. E. Stephenson. 1,452,731; May 1.
Distillation apparatus. R. H. Twining. 1,453,735; May 1.
Dock, Dry. D. Franovich. 1,453,666; May 1.
Doll. M. S. Wingert. Des. 62,296; May 1.
Doll and pin cushion, Combination. P. Le Doux. Des. 62,291; May 1.
Dolls, Voice for. F. G. Schneider. 1,453,527; May 1.
Door bin. A. A. McIntyre. 1,453,472; May 1.
Door buffer. H. C. Maise. 1,453,364; May 1.
Door latch and lock. H. A. Thexton. 1,453,556; May 1.
Door-opening mechanism. H. A. Adams. 1,453,778; May 1.
Door-operating device. J. E. W. Fogal. 1,453,550; May 1.
Door, Sliding. O. J. Miller. 1,453,986; May 1.
Draft equalizer. R. L. Nobic. 1,453,886; May 1.
Draft regulator. F. C. Evans. 1,453,757; May 1.
Draft regulator, Time-controlled. M. B. Fermanian. 1,453,929; May 1.
Drain cleaner. C. Fritz. 1,453,454; May 1.
Drain trap. W. J. W. Bruce. 1,453,743; May 1.
Drier: *See*—
Rotary drier.
Drill. G. P. Lagemann. 1,453,878; May 1.
Drill for drilling wood wheels for hub flanges, Multiple. H. Flick and C. M. Buck. 1,453,931; May 1.
Drills, Lubricator for earth-boring. H. R. Hughes. 1,453,875; May 1.
Drilling machine, Stone-. A. E. Carlson. 1,453,620; May 1.
Drinking fountain, Portable. G. R. Pratt. 1,453,725; May 1.
Dryroom tumbler. V. E. Adland and L. H. Kamper. 1,453,260; May 1.
Dyestuffs and making same, Intermediate product for the manufacture of. G. de Montmollin, J., Spieler, and G. Bonhôte. 1,453,659; May 1.
Dyestuffs and manufacture of same, Azo. G. de Montmollin, G. Bonhôte, and J. Spieler. 1,453,660; May 1.
Dynamometer. H. O. Hem. 1,453,354; May 1.
Easel, Newspaper. A. Krol. 1,454,028; May 1.
Egg beater and cream remover, Combination. W. F. Lange. 1,453,761; May 1.
Electric appliance, Switch-controlled. H. Hertzberg. 1,453,587; May 1.
Electric fixtures, Attachment device for. J. E. Watson. 1,453,860; May 1.
Electric furnace. A. W. Gregg. 1,453,347; May 1.
Electric heater. E. C. Donaldson. 1,543,832; May 1.
Electric-light fixture. J. W. Hancock. 1,453,794; May 1.
Electric machine, Arc-welding dynamo-. K. L. Hansen. 1,453,389; May 1.
Electric machine, Dynamo-. J. Slepian. 1,453,410; May 1.
Electric machines, Control of dynamo-. H. W. Rogers. 1,453,522; May 1.
Electric switch. W. S. Mayer. 1,453,591; May 1.
Electric water heater. Z. Trotzer. 1,453,574; May 1.
Electrical connection. V. C. Hamister. 1,453,793; May 1.
Electrical precipitation of suspended material from gases, Apparatus for. W. A. Schmidt. 1,453,325; May 1.
Electrical receiving or repeating apparatus and operating same. B. W. Kendall. 1,453,982; May 1.

Electrical switch. A. P. Ball and F. Zenker. 1,453,696; May 1.
Electromagnetic and control therefor. G. E. Stack. 1,453,555; May 1.
Electroplating apparatus. W. Thompson and W. R. Jameson. 1,453,419; May 1.
Elevator-door lock. C. W. Carr, R. J. Dixon, and P. W. Conover. 1,453,915; May 1.
Elevator interlocking device. J. E. W. Fogal. 1,453,551; May 1.
Emblem, badge, brooch, pin, cuff button, watch fob, or similar article. C. B. Dyer. Des. 62,272; May 1.
End gate. F. J. Vonderharr. 1,454,003; May 1.
Engine: *See*—
Explosive engine. Rotary engine.
Gas engine.
Internal-combustion engine.
Engine preheater. J. Good. 1,453,669; May 1.
Engines, Attachment for internal-combustion. W. W. Whetstine. 1,453,560; May 1.
Engines, Auxiliary air valve for internal-combustion. A. Wagner. 1,453,296; May 1.
Engines, Cooler attachment for. H. N. Schofield. 1,453,528; May 1.
Engines, Oil governor for compressor. J. W. Jones. 1,453,681; May 1.
Engines, Primer for internal-combustion. C. S. Burton. 1,453,270; May 1.
Engines, Valve mechanism for internal-combustion. C. H. Matthiessen, jr. 1,453,801; May 1.
Envelope. S. Benenato. 1,453,616; May 1.
Envelope. A. D. Field. 1,453,758; May 1.
Envelope-filling machine. P. J. Wooldridge. 1,454,008; May 1.
Excess-demand meter. G. A. Cheetham. 1,453,441; May 1.
Explosive engine. J. A. Charter. 1,453,304; May 1.
Eyeglasses, Construction of. G. W. McKinstry and W. H. Siddall. 1,453,632; May 1.
Fabrics, Liquid for treating. A. Neusella. 1,453,764; May 1.
Fan, Convertible. D. Q. Hicks. 1,453,873; May 1.
Feed mechanism, Package-. C. H. Nitsch and W. A. Weightman. 1,453,720; May 1.
Feeder, Animal-control. W. T. Robbins. 1,453,768; May 1.
Feeding systems, Means for supporting vacuum. E. A. Rockwell. 1,453,729; May 1.
Fender: *See*—
Cultivator fender. Vehicle fender.
Fender bracket. H. Caplan. 1,453,271; May 1.
Filler and gauge. G. R. Goin and R. E. Hite. 1,453,668; May 1.
Filling machine. A. Holmquist. 1,453,840; May 1.
Film-waxing machine. M. E. Clark. 1,453,920; May 1.
Filter. G. Engel, sr. 1,453,310; May 1.
Filter, Rotary. G. Engel, sr. 1,453,311; May 1.
Finger ring and setting. G. Gaschke. 1,453,708; May 1.
Firearm, Recoil-operated. N. Cedillo. 1,453,430; May 1.
Fishing tool. G. F. Cunningham. 1,453,493; May 1.
Flag-waving device, Mechanical. S. Trachtenberg. 1,453,772; May 1.
Fluid-registering mechanism. C. F. MacGill. 1,453,716; May 1.
Fluid-tight container and closure therefor. E. Wetzel. 1,453,299; May 1.
Flying-machine propeller. J. M. Raymond. 1,453,951; May 1.
Focusing mechanism. R. W. Johnston. 1,453,843; May 1.
Folding brace. O. A. Norlund. 1,453,989; May 1.
Folding table, Automatic self-locking. J. F. Janisch. 1,453,504; May 1.
Food compound and producing the same. H. E. Collver and C. R. Mabee. 1,453,752; May 1.
Foodstuffs, Book container for packaged. J. Horan. 1,453,677; May 1.
Frame: *See*—
Bag frame.
Fruits and vegetables, Peeling. C. S. Ash. 1,453,781; May 1.
Fuel and apparatus therefor, Treating and feeding. P. A. Hirsch. 1,453,977; May 1.
Fuel mixer. M. C. Buckley and H. Kendrick. 1,453,912; May 1.
Fuel mixer, Gaseous-. D. Bonnell. 1,453,656; May 1.
Furnace: *See*—
Electric furnace. Smelting furnace.
Reverberatory furnace.
Furnace. W. M. Duncan. 1,453,341; May 1.
Furnace. W. J. Lawrence. 1,453,361; May 1.
Furnace construction. A. H. van de Pol. 1,453,960; May 1.
Furnace-door arch. L. E. Budd. 1,453,434; May 1.
Furnace or stove. A. A. Bruder. 1,453,544; May 1.
Furnaces, Construction of smelting. A. N. Jette. 1,454,026; May 1.
Furnaces, Means for protecting resistors in electric. G. M. Little. 1,453,399; May 1.
Furnaces, Oil burner for. W. H. Bozarth. 1,453,907; May 1.
Furnaces, Protection of resistors of electric. G. M. Little. 1,453,397; May 1.
Fuse, Time. A. S. Miller. 1,453,717; May 1.
Gas burner. J. W. Sharp. 1,453,327; May 1.
Gas engine, Two-cycle. O. M. De Launty. 1,453,449; May 1.
Gas holder. J. R. Payson. 1,453,516; May 1.
Gas lines, Automatic cut-off for. T. Tolia and E. W. Bocta. 1,453,573; May 1.
Gas making. H. R. Berry. 1,453,655; May 1.
Gas purification, Apparatus for. K. Cox, R. P. Kerr, and E. J. Baty. 1,453,754; May 1.
Gate: *See*—
End gate. Head gate.
Gate machine, Distributing-. W. A. Waterman. 1,453,647; May 1.
Gearing. C. L. Heisler. 1,453,709; May 1.
Gearing, Lubricator for intermediate. V. W. Page. 1,453,991; May 1.
Gear tooth. J. M. Labberton. 1,453,395; May 1.
Gear transmission mechanism, Cone-. A. E. Osborn. 1,453,478; May 1.
Gear transmission. C. W. Snodgrass and W. R. Whitmoyer. 1,453,413; May 1.
Generator: *See*—
Current commutator generator.
Glass, Apparatus for cutting sheet. C. A. Rowley and J. A. Reece. 1,453,856; May 1.
Glass, Apparatus for drawing sheet. W. J. Jacobs. 1,453,842; May 1.
Glass, Apparatus for gathering and transferring molten. J. F. Rule. 1,453,285; May 1.
Glass-cutting mechanism. E. T. Ferngren and L. D. Soubier. 1,453,315; May 1.
Glass, Method of and means for feeding molten. L. D. Soubier. 1,453,290; May 1.
Glassworking apparatus. J. A. Milliken. 1,453,803; May 1.
Glove and making the same. G. P. Bosworth. 1,454,019; May 1.
Glove, Fighting. S. Levinson. 1,453,714–15; May 1.
Golf-ball dipper or retriever. L. B. Mellor. 1,453,511; May 1.
Golf club. T. J. Holmes. 1,453,503; May 1.
Governor, Centrifugal. H. F. Dobbin. 1,453,452; May 1.
Granular products, Apparatus for drying. N. C. Christensen. 1,453,750; May 1.
Grasping instrument. F. Bonser. 1,453,543; May 1.
Grave marker and flag holder, Combined. G. G. Jones. Des. 62,288; May 1.
Grid leak. E. L. Powell and C. E. Motto. 1,453,724; May 1.
Grinding mill. J. P. Ruth, jr. 1,453,408; May 1.
Grinding purposes, Jig for. K. Williams. 1,453,737; May 1.
Grouser. R. C. Hawkins and E. S. Hixson. 1,453,872; May 1.
Guide stud and removing key, Cylinder-head. A. G. Burdick. 1,453,913; May 1.
Gun, Machine. A. T. Dawson, G. T. Buckham, and G. D. Haskell. 1,453,974; May 1.
Hair curler. E. Calkins. 1,453,971; May 1.
Hairpin container. E. B. Dewey. 1,453,756; May 1.
Harrow and scarifier. D. M. Roberts. 1,453,998; May 1.
Harvester thrasher. A. Converse. 1,453,753; May 1.
Hatpin fastener. H. Walkenhorst. 1,453,422; May 1.
Hat protector. J. M. Check. 1,453,862; May 1.
Haystackers, Automatic retainer for. L. B. Taylor. 1,453,771; May 1.
Head gate. H. C. Beggs. 1,453,429; May 1.
Headlight lens. R. H. Bara. 1,453,539; May 1.
Headlight arrangement for motor vehicles, Adjustable. C. A. and H. E. Hart. 1,453,938; May 1.
Heater: *See*—
Electric heater. Electric water heater.
Heat-exchange apparatus. H. I. Steffa. 1,453,292; May 1.
Hedge clipper or trimmer. E. C. Conrade. 1,453,621; May 1.
Heel, Resilient. J. A. Parrella. 1,453,403; May 1.
Heel lift, Resilient. R. I. Hill. 1,453,459–60; May 1.
High-tension cut-out system and the like. F. C. Van Etten. 1,453,774; May 1.
Highway and similar foundation. J. H. Amies. 1,453,261; May 1.
Hoist, Dump-body. W. B. Engler. 1,453,663; May 1.
Hook: *See*—
Clip hook.
Hook. E. Johnson. 1,453,680; May 1.
Hook. C. S. Hinderliter. 1,453,502; May 1.
Hose-clamping tool. J. R. Lowrey. 1,453,940; May 1.
Hose construction. C. M. C. Baird. 1,453,823; May 1.
Hose stand. Air-. G. F. Royer. 1,453,999; May 1.
Hub for eccentrics, Detachable. J. M. Stone. 1,453,417; May 1.
Hydroaeroplane. C. Dornier. 1,453,496; May 1.
Hydrometer. E. F. Andrews. 1,453,488; May 1.
Ice-cream-bricking machine. E. J. Retzbach. 1,453,407; May 1.
Ice receptacle. B. H. Blount. 1,453,266; May 1.
Ignition device, Electrothermal. L. F. Hoffman. 1,453,461; May 1.
Indicator: *See*—
Direction indicator. Station indicator.
Liquid-level indicator. Street indicator.
Price indicator.

Inner tube. H. C. Privett. 1,453,949; May 1.
Insole, Ventilating. J. Klepac. 1,453,394; May 1.
Insulating composition and making same. T. C. Prouty. 1,453,726; May 1.
Internal-combustion engine. D. M. Weigel. 1,453,423; May 1.
Iron: *See*—
Annealing sheet iron.
Iron and steel, Refining. H. Thomas. 1,453,734; May 1.
Ironing table. E. H. Wilkinson. 1,453,649; May 1.
Jack: *See*—
Lowering jack. Pneumatic jack.
Joint: *See*—
Rail joint. Welded joint.
Key-locking device. H. E. Lorents. 1,453,630; May 1.
Kiln: *See*—
Rotary kiln.
Kite. H. A. Sellers. 1,453,287; May 1.
Lace. W. Draycott. Des. 62,298; May 1.
Lace. G. Radford. Des. 62,306–9; May 1.
Lace. H. Seel. Des. 62,312; May 1.
Lamp-bulb-tilting device. W. F. Persons. 1,453,281; May 1.
Lamp fixture or support, Electric-. N. W. Nutt. 1,453,887; May 1.
Lamp for automobiles and the like. F. W. Wakefield. 1,453,534; May 1.
Lamp reflector attachment. F. Bedford. 1,453,739; May 1.
Lamp-shade-delivery box. T. J. Keeping. 1,453,275; May 1.
Lamp socket, Electric-. R. B. Benjamin and P. D. Phillips. 1,453,827; May 1.
Lamps and similar articles, Manufacture of incandescent electric. L. E. Mitchell and A. J. White. 1,453,595; May 1.
Lantern. C. J. Jensen. 1,453,798; May 1.
Lantern-slide projecting apparatus. R. C. Smith. 1,453,893; May 1.
Last with reenforced toe. G. B. Fitz. 1,453,317; May 1.
Latch, Automatic door. C. Peters. 1,453,282; May 1.
Latch for doors, Foot-operated. C. E. Dillistone. 1,453,308; May 1.
Latch, Vehicle door. R. V. Kaimer. 1,453,712; May 1.
Lawn-edge trimmer. J. Lees. 1,454,018; May 1.
Leaf upsetting and supporting device. C. R. Fargo. 1,453,664; May 1.
Leather, Composition for use in finishing dry-cleaned. V. O. Olsen. 1,453,723; May 1.
Lens-adjusting means. A. J. Holman. 1,453,462; May 1.
Lens mounting. J. R. Van Tassel. 1,453,814; May 1.
Level, Spirit. W. E. Winner and C. C. Patterson. 1,453,888; May 1.
License-plate holder, Adjustable. W. V. Pumphrey. 1,453,727; May 1.
License-plate, tail-light, and signal-light bracket, Combined. R. Shields. 1,453,770; May 1.
Light: *See*—
Display light.
Light signal. W. B. Wells. 1,453,535; May 1.
Lighting device, Gas-. R. Boone. 1,453,906; May 1.
Lighting fixture. W. E. Cochran. 1,453,443; May 1.
Lighting fixture. E. F. Guth. 1,453,349; May 1.
Lighting-fixture pan. L. Jacobson. Des. 62,299; May 1.
Liner stuffing-box head, Brass-. A. D. Purtle. 1,453,324; May 1.
Liquid container, Stoppered. A. Schoenbrun. Des. 62,311; May 1.
Liquid-fuel burner. J. A. Doble. 1,453,495; May 1.
Liquid-level indicator. D. R. Price. 1,453,602; May 1.
Litter carrier. J. L. Thornton. 1,453,610; May 1.
Lock: *See*—
Auto lock. Elevator-door lock.
Automobile lock. Nut lock.
Car-door lock. Sash lock.
Combination lock.
Lock. E. L. Teich. 1,454,020; May 1.
Lock bolt. A. Samanich. 1,453,952; May 1.
Locomotive frames, Jig for assembling. J. P. Sykes and H. E. Stover. 1,453,896; May 1.
Loom reed. L. Strohacker. 1,453,533; May 1.
Looms, Feeler mechanism for. C. D. Brown. 1,453,828; May 1.
Looms, Feeler mechanism for. H. E. Dill. 1,453,451; May 1.
Looms, Feeler mechanism for. P. J. Hunt. 1,453,841; May 1.
Lowering jack, Self-. C. W. Ripach and J. C. Dawley. 1,454,029; May 1.
Lubricating protector, Spring. A. R. Ulp. 1,453,421; May 1.
Lubricator. C. Verniaud. 1,454,002; May 1.
Machine tool, Automatic. W. N. Stevens. 1,453,732; May 1.
Magnetic materials, Separating. O. Brophy. 1,453,699; May 1.
Map-drawing machine. H. C. Campbell. 1,453,377; May 1.
Marking machine. W. E. Choate. 1,453,442; May 1.
Marking machine, Automatic. E. G. Meyers. 1,453,985; May 1.
Masonry structure. W. F. Wagner. 1,453,557; May 1.
Mausoleum. W. H. Allen. 1,453,375; May 1.
Maximum-demand meter. W. L. Hamilton. 1,453,498; May 1.
Measuring device. W. C. Hunter. 1,453,876; May 1.
Measuring instrument. H. P. Sparkes. 1,453,414; May 1.
Measuring machines, Mounting for. J. L. Wheeler. 1,453,300; May 1.
Mechanical movement. R. Ware. 1,453,815; May 1.
Medical bandages, Absorbent-cotton substitute for. J. T. Tong and J. E. Blosser. 1,453,575; May 1.
Metal-molding apparatus. H. C. Zenke. 1,453,861; May 1.
Metals, Joining. C. F. Kettering. 1,453,358; May 1.
Metallurgical refractory material and producing same. C. Payton. 1,453,993; May 1.
Meter: *See*—
Excess-demand meter. Maximum-demand meter.
Milk product and making the same. C. S. Stevens. 1,453,859; May 1.
Mill: *See*—
Grinding mill.
Milling machine. J. E. Bergström. 1,453,654; May 1.
Mirror and telephone mouthpiece, Combination. J. Hauenstein. 1,453,760; May 1.
Mirror, Wrist. S. Harrold. 1,453,671; May 1.
Mixer: *See*—
Concrete mixer. Fuel mixer.
Mixing apparatus. W. E. Palmeter. 1,453,323; May 1.
Molds, Coating for metal. D. H. Meloche. 1,453,693; May 1.
Molds, Matrix device for. P. Kucera. 1,453,277; May 1.
Mopping vehicle. H. Dilas. 1,453,450; May 1.
Mops, Connector for. C. Cabana. 1,453,745; May 1.
Moth-repellant holders, Support for. S. H. Bishop and J. Q. Slye. Re15,588; May 1.
Motor and other cycle. J. T. Sentrop, jr. 1,453,326; May 1.
Motors, Compound regulating set for induction. W. Seis. 1,453,529; May 1.
Muffler. T. E. Genthner and A. L. Stevens. 1,453,932; May 1.
Muffler cut-outs, Controlling device for. J. Hadka. 1,453,624; May 1.
Necktie holder. A. J. Nelson. 1,453,885; May 1.
Necktie holder. W. B. Tingle. 1,453,644; May 1.
Needle, Hand embroidery. G. E. Banghart. 1,453,262; May 1.
Nest, Hen's. W. H. Way. 1,453,558; May 1.
Nitrogen, fixation, Method and apparatus for. C. H. Buettner. 1,453,435; May 1.
Nonskid attachment for vehicle wheels. J. S. Komins. 1,453,276; May 1.
Nurse, Mechanical. R. N. Harrison. 1,453,937; May 1.
Nut lock. C. W. Cline. 1,453,021; May 1.
Nut lock. M. D. Kimball. 1,453,507; May 1.
Oil burner. A. E. Grant. 1,453,834; May 1.
Oil-saver device. W. M. Stephenson. 1,453,293; May 1.
Oils, Firing boilers by means of fuel. W. P. Dunham. 1,453,662; May 1.
Oils, Treating hydrocarbon. J. P. Persch. 1,453,479; May 1.
Optical instruments, Lamp mounting for certain. R. H. Wappler. 1,453,297; May 1.
Organ blower. R. L. Stanley. 1,453,416; May 1.
Ornamental designs, Means for devising. F. J. Rhodes. 1,453,728; May 1.
Oven, Coke. W. E. Roberts. 1,453,605; May 1.
Overshoe for horses. M. Blackman. 1,453,905; May 1.
Oxychloride, Preparation of pure selenium. G. J. Fink and E. D. Glauque. 1,453,789; May 1.
Packages, Method and apparatus for controlling cooling of. G. W. Lubrmann. 1,453,279; May 1.
Packing machine, Sugar-. C. C. Reese, J. T. Buzzo, and R. S. Woodford. 1,453,767; May 1.
Paper-bag-bottoming machine. J. W. Taggart. 1,453,294; May 1.
Paper closure. G. Ramsey. 1,453,283; May 1.
Paper-making machinery, Signal and recording meter for. E. H. Butterfield and F. D. Otterbein. 1,453,438; May 1.
Paper, Salt drier for drying. J. W. Vedder. 1,453,645; May 1.
Pen, Fountain. O. Mitchell. 1,453,596; May 1.
Pencil-display holder. F. H. Beck. Des. 62,269; May 1.
Penholder. J. J. Gillis. 1,453,667; May 1.
Phonograph cabinet. P. Iribe. 1,453,464; May 1.
Phonograph cabinet. E. W. Winslow. 1,453,329; May 1.
Phonograph diaphragm and sound box. C. C. Broskie. 1,453,336; May 1.
Phonograph repeating mechanism. K. E. Yungstrom. 1,453,966; May 1.
Phonograph stylus. T. Parsons. 1,453,637; May 1.
Phosphate rock, Treating. E. P. Stevenson. 1,453,571; May 1.
Photographic prints, films, and the like, Machine for use in drying or treating. E. Graber. 1,453,554; May 1.
Pie cutter. C. J. Schipplock and J. C. Kessler. 1,453,367; May 1.
Pilaster construction. F. Heath. 1,453,837; May 1.
Pipe wrench. B. H. Parker. 1,453,854; May 1.
Pipe wrench. B. J. Steen. 1,454,016; May 1.
Pistol holster. O. F. Ludwig. 1,453,880; May 1.
Piston and piston ring. W. R. Day. 1,453,448; May 1.
Pistons, Cup packing for. R. C. Kendall. 1,453,505; May 1.
Plant protector. A. Wilberding. 1,453,963; May 1.

Planter, Bulb. T. De Young, jr. 1,453,923; May 1.
Plate or similar article. W. S. Ensign. Des. 62,273; May 1.
Plates, Tail-cutting device for tubular. H. A. W. Wood. 1,454,006; May 1.
Pliers. R. W. Conard. 1,453,863; May 1.
Plow and planter, Combined. A. D. Gallagher. 1,453,553; May 1.
Plows, Power-lift mechanism for. H. E. Altgelt. 1,453,537; May 1.
Plug-receiving wall outlet. W. S. Mayer. 1,453,590; May 1.
Pneumatic jack. R. Bernat. 1,454,010; May 1.
Pocketknife. F. Vincent. 1,453,897; May 1.
Poke, Animal. A. Beaton. 1,453,334; May 1.
Portholes of ships, or other openings, Locking device for covers of. J. H. Clarke. 1,453,919; May 1.
Post and cover clamp and seal. W. E. Gosaling. 1,453,791; May 1.
Postmarking and stamp canceling machines, Yieldable support for rollers of. W. H. Bowes. 1,453,783; May 1.
Potassium compounds in the manufacture of cement, Obtaining soluble. F. W. Huber. 1,453,797; May 1.
Poultry-dipping machine. C. E. Hedrick. 1,453,674; May 1.
Powder and foodstuffs, Container for packed. J. Horan. 1,453,676; May 1.
Powder trains, Controlling the burning of time. A. S. Miller. 1,453,718; May 1.
Powder-developing apparatus. H. F. Schmidt. 1,453,858; May 1.
Power-transmission apparatus. A. Kimble. 1,453,466; May 1.
Power-transmitting mechanism. G. M. Ask. 1,453,903; May 1.
Precision instrument. H. P. Milker. 1,453,688; May 1.
Press: *See*—
Counterdrop press. Printing press.
Pressure regulator. I. R. Cowin. 1,453,704; May 1.
Price indicator. G. B. Clonch. 1,453,658; May 1.
Prie dieu. C. E. Walker. Des. 62,314; May 1.
Printing device. J. P. Jackson 1,453,392; May 1
Printing machine, Address-. C. Chisholm. Re15,589; May 1.
Printing mechanism, Multicolor-. R. Jacobucci. 1,453,465; May 1.
Printing-plate blanks and product thereof, Making. J. S. Duncan. 1,453,384; May 1.
Printing plates, Finishing and cooling apparatus for tubular stereotype. H. A. W. Wood. 1,454,007; May 1.
Printing press. H. B. McBee. 1,453,363; May 1.
Printing press, Cylinder. R. F. Miehle, jr. 1,453,853; May 1.
Pulley. M. Lubash. 1,453,400; May 1.
Pulling-over machine. A. Bates and W. T. Minett. 1,453,263; May 1.
Pump. F. C. Berg. 1,453,643; May 1.
Pump, Air-power water. J. A. Aebly. 1,453,486; May 1.
Pump, Pneumatic. E. W. Beck. 1,453,904; May 1.
Pump, Steam. W. Willshaw. 1,453,561; May 1.
Radiator cover. F. J. Druar. 1,453,339; May 1.
Radiators, Attachment for motor-vehicle. F. J. Druar. 1,453,340; May 1.
Rail anchor. F. A. Poor. Re15,593; May 1.
Rail-bending device. P. E. Chambers. 1,453,917; May 1.
Rail fastener. L. M. Sartain. 1,453,641; May 1.
Rail joint, Boltless. A. O. Spencer. 1,453,957; May 1.
Rail tie. R. Palmer. 1,453,122; May 1.
Railway crossing. G. T. Wiswell. 1,453,776; May 1.
Railway-crossing signal. E. M. Tolston. 1,453,420; May 1.
Railway-traffic-controlling system. L. V. Lewis. Re15,592; May 1.
Rat and mouse trap. J. Herkman. 1,453,352; May 1.
Ratchet socket wrench. H. L. Saucier. 1,453,607; May 1.
Razor-blade holder. C. A. Scott. 1,453,409; May 1.
Razor-stropping machine. E. D. Clark. 1,453,751; May 1.
Razors, Adapter for safety. W. Althoff. 1,453,487; May 1.
Receiver, Selective. R. L. Williams. 1,453,612; May 1.
Receptacle. C. J. Crawley. 1,453,784; May 1.
Receptacle. E. A. Robe. 1,453,284; May 1.
Receptacle opener. J. H. Smith. 1,453,956; May 1.
Record-filing device. C. F. Mitchell. 1,453,943; May 1.
Reel. M. P. Holmes. 1,454,017; May 1.
Refractory products, Making. L. P. Kraus, jr. 1,453,468; May 1.
Refrigerating apparatus. J. G. De Remer. Re15,591; May 1.
Refuse can, Nonbreakable. C. Bauer. 1,453,824; May 1.
Regulator: *See*—
Automobile speed regula tor. Pressure regulator.
Draft regulator.
Regulator for systems of apparatus. A. C. Staley. 1,453,291; May 1.
Relay, Voice-operated. O. B. Blackwell. 1,453,430; May 1.
Resilient wheel. G. A. Dufresne. 1,453,786; May 1.
Respirator. R. Malcom. 1,453,365; May 1.
Rheostat. G. W. Camp. 1,453,829; May 1.
Rheostat. L. Kebler. 1,453,682; May 1.
Rim lock, Demountable-. H. Taylor. 1,453,295; May 1.
Ring: *See*—
Piston and piston ring. Steam ring.
Ring molds and the like, Manufacturing. P. Kucera. 1,453,278; May 1.
Road leveler. W. E. Gaddis. 1,453,346; May 1.
Rod: *See*—
Curtain rod.
Roller screen. F. R. Koenig. 1,453,939; May 1.
Rope guide. J. R. Weaver. 1,453,576; May 1.
Rotary drier. G. Engel, sr. 1,453,312; May 1.
Rotary engine. S. E. Kochendarfer. 1,453,683; May 1.
Rotary kiln. S. S. McGrath. 1,453,851; May 1.
Rule forms, Apparatus for setting. C. J. Farrar. 1,453,787; May 1.
Ruler attachment. J. J. Abearn. 1,453,900; May 1.
Sack holder. C. Walldow. 1,453,961; May 1.
Sash lock, Window-. F. R. Badnar. 1,453,698; May 1.
Sashes, Operating means for window. W. E. Rogge. 1,453,523; May 1.
Saw blades with revolving grinding wheels, Automatic machine for grinding the. A. Octave. 1,453,765; May 1.
Saw, Portable motor-driven meat. W. H. Bennett. 1,453,335; May 1.
Saw set. H. L. Thomas. 1,453,958; May 1.
Scale-platform lifting mechanism. H. S. Bergen. 1,453,376; May 1.
Scale, Weighing. H. O. Hem. 1,453,353; May 1.
Scale, Weighing. E. G. Thomas. 1,453,370; May 1.
Scale, Wire-drawing. H. O. Hem. 1,453,355; May 1.
Screen: *See*—
Roller screen. Window screen.
Sealing-in machine. L. E. Mitchell and A. J. White. 1,453,594; May 1.
Sealing means. W. M. Brooks. 1,453,268; May 1.
Seamers, End feed for double. M. E. Widell and A. A. Jahr. 1,453,818; May 1.
Seat: *See*—
Warper seat.
Separator: *See*—
Centrifugal separator.
Sewing machine for stitching waistbands. B. V. Kershner. 1,453,506; May 1.
Shade, Window. W. E. Whitehurst. 1,453,775; May 1.
Shear table, Back. L. Iversen. 1,453,319; May 1.
Shears and other instrument, Pruning. C. H. Redman. 1,453,603; May 1.
Sheet-metal articles, Method of and apparatus for forming. J. H. and J. L. Auble. 1,453,662; May 1.
Sheets, Mechanism for transferring and timing. B. F. Upham, F. R. Belluche, and K. F. Hornig. 1,453,773; May 1.
Shelf and paper rack, Folding. L. T. Obele. 1,453,508; May 1.
Shells, Loading high-explosive. W. A. Gibbons and A. Given. 1,453,933; May 1.
Shingle strip. H. Abraham. 1,453,373; May 1.
Ship construction. J. T. L. Lavagetto. 1,453,588; May 1.
Shipping box, Foldable. G. X. Wendling. 1,453,611; May 1.
Shipping container. W. E. Sanders. 1,453,480; May 1.
Skirt sleeve with detachable cuff. A. C. Altenburg. 1,453,779; May 1.
Shock absorber for motor vehicles. J. O. Delgado. 1,453,785; May 1.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,453,691–4; May 1.
Shoe. E. Pubakka. 1,453,950; May 1.
Shoe stretcher. W. A. Sprague. 1,453,608; May 1.
Shoe, Turn. M. L. Dodge. 1,453,924; May 1.
Shoe-turning machine. E. I. La Chapelle. 1,453,799; May 1.
Shoes and apparatus for use therein, Manufacture of turn. M. L. Dodge. 1,453,925; May 1.
Shoes, Forming box toes for. A. J. Ryan. 1,453,526; May 1.
Shutter opening and securing mechanism. E. C. Conrade. 1,453,622; May 1.
Shuttle, Tatting. H. L. Richardson. 1,453,629; May 1.
Sifter, Ash. P. Berman. 1,453,583; May 1.
Sifter, Flour. C. J. Repath. 1,453,604; May 1.
Sifting grate. J. W. Hartmann. 1,453,870; May 1.
Sign, Display. D. Ishbia. 1,453,679; May 1.
Signal: *See*—
Automobile signal. Railway-crossing signal.
Light signal. Vehicle signal.
Signal. F. B. Girvin and H. C. Gee. 1,453,623; May 1.
Signboard. F. G. White. 1,453,536; May 1.
Sink and drain board, Tiled. A. G. S. Peterson. 1,453,945; May 1.
Sinker. S. Mills. 1,453,987; May 1.
Skate roll, Roller-. A. L. Staples. 1,453,894; May 1.
Slack adjuster. W. H. Sauvage. 1,453,857; May 1.
Sled. J. Pottala. 1,453,948; May 1.
Smelting furnace. A. N. Jette. 1,454,025; May 1.
Smelting furnace, Reverberatory. A. N. Jette. 1,454,024; May 1.
Smoker stand. F. E. Hadermann. Des. 62,287; May 1.
Smokestack cover. R. J. O'Neill. 1,453,477; May 1.
Snow and ice, Machine to melt. H. L. Fuller, W. F. Nesbit, and P. O. Petterson. 1,453,552; May 1.
Snowplow. O. H. Starkweather. 1,453,811; May 1.
Soldering flux. E. M. Hearne. 1,453,586; May 1.

Solid particles mixed with liquids, Apparatus for the dewatering, classification, and countercurrent washing of. N. C. Christensen. 1,453,749; May 1.
Speed-regulating device. C. C. Shigley. 1,453,890; May 1.
Spoke-mitering machines, Billet holder for. H. Flick. 1,453,930; May 1.
Spool, Sheet-metal. C. A. Beaujon. 1,453,826; May 1.
Spring: *See*—
Vehicle spring.
Spring retainer. G. M. Le Tarte. 1,453,471; May 1.
Spring suspension, Air-. R. Liebau. 1,453,589; May 1.
Spring wheel. W. J. Beisel. 1,453,541–2; May 1.
Spur. G. J. Ormiston. Des. 62,305; May 1.
Stand: *See*—
Hose stand.
Starting and stopping mechanism. J. S. Wentworth. 1,453,298; May 1.
Starting device. R. C. Frohock. 1,453,868; May 1.
Station indicator. J. C. Wood. 1,453,330; May 1.
Steam, Means for reutilizing. F. L. McGahan. 1,453,687; May 1.
Steam ring. S. Clifford. 1,453,378; May 1.
Steel sash connection. M. Zeman. 1,453,822; May 1.
Steering wheel. W. C. Rastetter. 1,453,808; May 1.
Steering wheel, Tilting. V. W. Page. 1,453,990; May 1.
Steering wheel, Tilting locking. E. N. Pagelsen. Re15,587; May 1.
Stoker. G. H. Thacher, jr. 1,453,482–3; May 1.
Stoker grate. G. H. Thacher, jr. 1,453,484; May 1.
Stoker, Underfeed. P. E. Smith. 1,453,892; May 1.
Stools and other furniture, Base for. H. C. Willson. 1,453,650; May 1.
Stopcock remover. C. K. Swift. 1,453,895; May 1.
Stopper. M. W. Powell. 1,453,601; May 1.
Storage-compartment closure. F. Meyer. 1,453,402; May 1.
Stove construction. R. Hoffman. 1,453,710; May 1.
Stoves, Attachment to gas. G. Fall. 1,453,665; May 1.
Stoves, Oil burner for. W. H. Bozarth. 1,453,908; May 1.
Street indicator. J. R. Hume. 1,453,465; May 1.
Stretching tool. A. G. G. Guenther. 1,453,564; May 1.
Structure, Composite. G. W. Riddle. 1,453,996; May 1.
Structure, Foldable. J. D. Macdonald. 1,453,567; May 1.
Surgical instrument. D. Lo Giudice. 1,453,934; May 1.
Switch: *See*—
Electric switch. Thermally-controlled switch.
Electrical switch.
Synchroniser, Breaker arm. M. D. Morris. 1,453,635; May 1.
Syringe, Hypodermic. J. A. Eberly, jr. 1,453,309; May 1.
Syringe, Hypodermic. J. A. Tessmer. 1,453,418; May 1.
Table: *See*—
Folding table. Shear table.
Ironing table.
Table. A. Wagner. 1,453,736; May 1.
Table-slide construction. E. H. Cook. 1,453,546; May 1.
Tag, Duplicate. S. Penksa. 1,453,517; May 1.
Tank. J. W. Kerlin. 1,453,983; May 1.
Tank or other container, Self-sealing petrol. C. A. Cleghorn. 1,453,305; May 1.
Tanks, Heater for water. C. F. H. Spiegel. 1,453,481; May 1.
Tanks, Reserve supply device for gasoline. E. W. Kruse. 1,453,713; May 1.
Tanning of hides and skins. P. J. C. Margotton. 1,453,800; May 1.
Tassel and pendant. J. E. Chappatte. 1,453,440; May 1.
Telegraph sounder. J. H. Kinsley. 1,453,359; May 1.
Telephone bracket or support. J. H. Rivet. 1,453,997; May 1.
Telephone currents and other electric oscillations, Device for amplifying. J. Blankenburg. 1,453,584; May 1.
Telephone system. G. A. Yanochowski. 1,453,821; May 1.
Telephones, Notifying or call device for. G. Forster. 1,453,453; May 1.
Temperature-control systems, Manual operating means for automatic. H. S. Coy. 1,453,379; May 1.
Textile fabric. E. Ericson and R. Weiss. Des. 62,274–86; May 1.
Textile fabric or similar article. H. Kaji. Des. 62,200; May 1.
Thermally-controlled switch. G. H. Whittingham. 1,454,022; May 1.
Thermostat. H. Sandvoss. 1,453,769; May 1.
Thread guide. J. F. Madden. 1,453,941; May 1.
Tie: *See*—
Rail tie.
Tie fastener. J. G. Whiteacre. 1,453,648; May 1.
Tiles, Machine for making. D. D'Alessandro and R. Pace. 1,453,381; May 1.
Tiles, Making. D. D'Alessandro and R. Pace. 1,453,382; May 1.
Tipping and wrapping machine. P. Pachter. 1,453,636; May 1.
Tire. H. R. Haupt. 1,453,351; May 1.
Tire attachment, Pneumatic. W. A. Shuey. 1,453,530; May 1.
Tire chains, Tool for attaching and removing. H. F. Hotchkiss. 1,453,874; May 1.
Tire filler. V. O. Moutray. 1,453,884; May 1.
Tire holder. E. G. Jeffries. 1,453,566; May 1.
Tire-making machine. J. M. Mylroie. 1,453,763; May 1.
Tire, Punctureproof pneumatic. R. Grieve and J. W. Flading. 1,453,348; May 1.
Tire, Resilient vehicle. J. E. Mote. 1,453,804; May 1.
Tire rim, Demountable. C. S. Martin. 1,453,633; May 1.
Tire tread. H. D. Mitchell. Des. 62,292; May 1.
Tire valve. A. B. Norwalk. 1,453,721; May 1.
Tire vulcanizer. E. J. Rohne. 1,453,889; May 1.
Tires, Constructing pneumatic. F. S. Dickinson and J. Springer. 1,453,865; May 1.
Tires, Low-pressure alarm for pneumatic. W. H. Brown. 1,453,657; May 1.
Toilet accessory. V. O'Connell. 1,453,690; May 1.
Toilet case. M. W. Askin. 1,453,332; May 1.
Tool-handle remover. W. D. Snowman. 1,453,288; May 1.
Tool holder. H. O. Pohrt. 1,453,947; May 1.
Toothbrush holder. W. W. Welpley. 1,453,816; May 1.
Tool retainer. S. Oldham. 1,453,807; May 1.
Tone-arm support. L. R. Wolff. 1,453,613; May 1.
Tongs, Long-reach. O. S. Winkler. 1,453,301; May 1.
Torch, Combined oxygen and acetylene cutting and welding. P. Deutsoff. 1,453,385; May 1.
Toy figure. M. I. Townsend. Des. 62,294; May 1.
Toy, Musical. W. Bartholomae. 1,453,968; May 1.
Tractor. C. E. Bird. 1,453,265; May 1.
Tractor. W. Knudsen. 1,454,027; May 1.
Tractor hitch. F. P. Dedering. 1,453,383; May 1.
Tractor or truck wheel. L. Look. 1,453,686; May 1.
Tractors, Safety attachment for. L. Bierschbach. 1,453,264; May 1.
Tractors, Safety device for. J. S. Rairden. 1,453,995; May 1.
Transformer, Regulating. N. Wenzel. 1,454,005; May 1.
Transmitting words, Apparatus for. M. Brodeur. 1,453,741; May 1.
Trap: *See*—
Animal trap. Drain trap.
Trap placer. A. Thomas. 1,453,812; May 1.
Trash receptacle, Public. W. M. Viser. Des. 62,313; May 1.
Tree protector. O. Sleen. 1,453,810; May 1.
Trimmer: *See*—
Lawn-edge trimmer.
Trucks, Tractor appliance for. J. T. Bell. 1,453,782; May 1.
Truss. W. Schuerg. 1,453,570; May 1.
Tub: *See*—
Wooden tub.
Tube: *See*—
Dispensing tube. Inner tube.
Tube making machine. R. La Croix. 1,453,846; May 1.
Tubes, Repair plug for inner. J. R. Vosburgh. 1,453,485; May 1.
Tubing machine. A. C. Coty. 1,453,864; May 1.
Tubing machine. J. L. Mahoney. 1,453,852; May 1.
Type switch, Externally-operable inclosed safety-. E. L. Brenk. 1,453,740; May 1.
Typewriters, Finger guard for the line-space and carriage-return levers of. W. V. and A. E. Bedfern. 1,454,014; May 1.
Typewriting machine. F. H. Armstrong. 1,453,577–82; May 1.
Typewriting machine. E. B. Hess and L. C. Myers. 1,453,839; May 1.
Typewriting machine. C. W. Klauninzer. 1,453,628; May 1.
Umbrella. M. H. Hartzell. 1,453,499–500; May 1.
Uppers over lasts, Machine for shaping. E. A. Holmgren. 1,453,274; May 1.
Urn. G. E. Curtiss. Des. 62,271; May 1.
Urethroscope. G. G Greenberg and W. A. Winter. 1,453,975; May 1.
Utensil, Household. A. Zimmerman. 1,453,777; May 1.
Valve arrangement. E. A. Wright. 1,453,302; May 1.
Valve, Check. J. A. Holmberg. 1,453,978; May 1.
Valve, Flush-tank. J. H. Cable. 1,453,914; May 1.
Valve-reversing gear, Steam engine-. F. R. Stevens. 1,453,532; May 1.
Valve seats, Reaming tool for truing. H. T. Shearer. 1,453,643; May 1.
Valve, Thermostatic. P. J. Collins. 1,453,272; May 1.
Vanity case. S. Albert. 1,453,563; May 1.
Vanity case. A. F. Reilly. Des. 62,310; May 1.
Vanity cases, Partition for. W. G. Kendall. 1,453,626; May 1.
Vehicle. J. B. Ferguson. 1,453,345; May 1.
Vehicle attachment, Motor-. A. C. Bovender. 1,453,618; May 1.
Vehicle brake device. G. S. Lane. 1,453,509; May 1.
Vehicle fender. L. Grella. 1,453,273; May 1.
Vehicle, Motor. J. G. Vincent. 1,453,646; May 1.
Vehicle sash door. K. S. Baxter. 1,453,825; May 1.
Vehicle signal. J. R. Alexander. 1,453,428; May 1.
Vehicle signal. T. A. Crotty. 1,453,390; May 1.
Vehicle signal. T. B. Powers. Re15,594; May 1.
Vehicle spring. F. V. Cooke. Re15,596; May 1.
Vehicle wheel. E. F. Waterbor. 1,453,371; May 1.
Vehicle wheel, Cushioned. R. J. Balazs and H. S. Autrey. 1,453,614; May 1.
Vehicles, Device utilising the trepidations of. M. A. Canale and R. Frias. 1,453,972; May 1.
Vehicles, Differential for motor. H. E. Briais. 1,453,909; May 1.
Vehicles, Heater for motor-propelled. C. S. Pelton. 1,453,855; May 1.

Vehicles, Shield for motor. C. A. Longenbaugh. 1,453,685; May 1.
Vehicles, Steering gear for motor. H. E. Bremer. 1,453,432; May 1.
Vehicles, System for communicating with moving. L. Espenschied and H. A. Affel. 1,453,387; May 1.
Vehicles, Tool-box attachment for motor. E. O. Loveland. 1,453,362; May 1.
Velocipede. C. Lather. 1,453,469; May 1.
Velour, bolivia, etc., Presser for. R. Bass. 1,453,697; May 1.
Vending machine. B. Williams. 1,453,424; May 1.
Vending-machine-controlling means. B. Williams. 1,453,425; May 1.
Ventilation system. K. Baumann. 1,453,333; May 1.
Ventilation system. J. E. Jolley. 1,453,367; May 1.
Ventilation system. J. Smillie. 1,453,328; May 1.
Vessels, Means for salvaging. E. A. Clark. 1,453,918; May 1.
Vibratory tool. E. P. Dieterle. 1,453,831; May 1.
Voltage-regulating system. F. J. Champlin. 1,453,491; May 1.
Wagon attachment. A. E. Bright. 1,453,910; May 1.
Warper seat. A. J. Palin. 1,453,992; May 1.
Washer and drier, Combined. H. C. Hoting. 1,453,711; May 1.
Washing cans and the like, Machine for. F. F. Wolf. 1,453,738; May 1.
Washing machine. A. H. Sacksteder. 1,453,606; May 1.
Washing machines, Electric heater for. C. P. Russell. 1,453,640; May 1.
Water-cooled terminal, Self-tightening. G. M. Little. 1,453,398; May 1.
Water ejector. C. H. Metz. 1,453,613; May 1.
Water meters, Device for grinding. O. Zachow. 1,454,009; May 1.
Waterer, Plant. M. W. Mattson. 1,453,401; May 1.
Welded joint. J. W. Fay. 1,453,343; May 1.
Well mechanism. M. E. Layne. 1,453,847; May 1.
Wheel: *See*—
Resilient wheel. Steering wheel.
Spring wheel. Vehicle wheel.
Wheel. W. W. Davison. 1,453,338; May 1.
Wheel. H. A. House, jr. 1,453,356; May 1.
Wheel and pitman, Self-lubricating. E. C. and H. L. Litchfield and V. Speer. 1,454,021; May 1.
Wheel-lock holder. E. M. Burnham. 1,453,436; May 1.
Winch. B. F. Webb. 1,453,559; May 1.
Windmill governor. E. Zamora. 1,453,427; May 1.
Window lift, Mechanical. W. Kopp. 1,453,845; May 1.
Window-operating device. S. T. McClarren. 1,453,881; May 1.
Window screen. H. A. Park. 1,453,280; May 1.
Windshield-pivot construction. H. H. Seeley. 1,453,955; May 1.
Wire deforming and severing machine. A. J. Gerrard and P. Wright. 1,453,456; May 1.
Wire-joining method. B. J. Davidson. 1,453,447; May 1.
Wire-joining tool. B. J. Davidson. 1,453,446; May 1.
Wire splicer. F. A. Ropp. 1,453,524; May 1.
Wires, Machine for tying bundles of. P. Wright. 1,453,820; May 1.
Wooden tub. F. X. Pfluger. 1,453,994; May 1.
Workholder. T. E. Purvis. 1,453,406; May 1.
Work support. C. S. Andersen. 1,453,901; May 1.
Wrapping machine, Carton-. J. J. Millin. 1,453,719; May 1.
Wrench: *See*—
Pipe-wrench. Ratchet socket wrench.
Wrench. B. J. Greer. 1,453,670; May 1.
Wrench. E. Staehelin. 1,453,730; May 1.
Wrench. F. E. Walden. 1,453,898; May 1.
Wringer. E. D. Misner. 1,453,568; May 1.
Wrinkles, Device for removing facial. H. L. Eager. 1,453,926; May 1.
X-ray-plate changer. R. J. McKenna. 1,453,473; May 1.
X-ray systems, Current regulator for. C. Fayer. 1,453,314; May 1.
Zinc and lead, Separating. E. H. Snyder. 1,453,289; May 1.

CLASSIFICATION OF PATENTS

ISSUED MAY 1, 1923.

NOTE.—First number—class, second number—subclass, third number—patent number.

2— 79: 1,453,779
108: 1,453,962
198: 1,453,714
1,453,715
4— 36: 1,453,945
39: 1,453,545
5— 77: 1,453,970
12— 4: 1,453,263
1,453,274
57: 1,453,799
1,453,925
128.5: 1,453,608
133: 1,453,317
146: 1,453,526
15— 127: 1,454,023
143: 1,453,305
229: 1,453,745
16— 86: 1,453,364
18— 5: 1,453,860
48: 1,453,617
1,453,726
61: 1,453,382
19— 93: 1,453,744
20— 32: 1,453,996
22— 142: 1,453,861
199: 1,453,593
23— 10: 1,453,754
1,453,789
13: 1,453,562
1,453,984
22: 1,453,797
31: 1,453,749
24— 59: 1,453,648
104: 1,454,004
108: 1,453,809
135: 1,453,706
25— 2: 1,453,819
37: 1,453,269
42: 1,453,381
99: 1,453,747
129: 1,454,000
131: 1,453,707
155: 1,453,745
157: 1,453,850
26— 5: 1,453,433
7: 1,451,967
29— 10: 1,453,831
21: 1,454,005
1,454,007
34: 1,453,456
38: 1,453,732
68: 1,453,609
84: 1,453,913
86.1: 1,453,288
1,453,895
89: 1,453,405
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99: 1,453,947
30— 10: 1,453,897
11: 1,453,603
12: 1,453,487
33— 32: 1,453,856
93: 1,453,625
143: 1,453,876
34— 5: 1,453,260
6: 1,453,312
34: 1,453,750
48: 1,453,554
1,453,645
35— 12: 1,453,728
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36— 3: 1,453,304
35: 1,453,403
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76: 1,453,924
37— 44: 1,453,811
135: 1,453,540
141: 1,453,812
142: 1,453,905
143: 1,453,346
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40— 2: 1,454,013
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13: 1,453,658
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40— 52: 1,453,894
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65: 1,453,833
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87: 1,453,330
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67: 1,453,342
92: 1,454,015
44— 33: 1,453,988
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11: 1,453,736
52: 1,453,464
57: 1,454,028
82: 1,453,937
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116: 1,453,504
46— 4: 1,453,503
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46: 1,453,527
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56: 1,453,762
47— 38: 1,453,810
48— 180: 1,453,296
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17: 1,453,842
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55: 1,453,290
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50— 14: 1,453,704
51— 26: 1,454,009
78: 1,453,742
107: 1,453,803
153: 1,453,751
217: 1,453,737
221: 1,453,409
237: 1,453,572
278: 1,453,366
52— 3: 1,453,976
53— 1: 1,453,378
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55— 3: 1,453,998
19: 1,453,944
84: 1,453,886
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56— 233: 1,453,921
59— 61: 1,453,899
61— 28: 1,453,429
62— 115: R. 15,591
170: 1,453,279
63— 15: 1,453,708
64— 10: 1,453,518
1,453,565
22: 1,453,673
25: 1,453,962
27: 1,453,700
32: 1,453,991
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66— 4: 1,454,019
67— 115: 1,453,573
68— 10: 1,453,649
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32: 1,453,337
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70— 29: 1,453,556
46: 1,454,020
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70— 122: 1,453,295
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71— 7: 1,453,571
72— 7: 1,453,375
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41: 1,453,806
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74— 1: 1,453,417
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14: 1,453,515
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32: 1,453,592
33: R. 15,587
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41: 1,453,395
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75— 1: 1,453,928
17: 1,453,289
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62: 1,453,993
76— 4: 1,453,390
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63: 1,453,706
78— 101: 1,453,901
81— 3: 1,453,956
9.3: 1,453,940
60: 1,453,507
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78: 1,453,854
80: 1,453,670
119: 1,453,898
133: 1,453,730
83— 9: 1,453,406
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71: 1,453,699
73: 1,453,323
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85— 5: 1,453,952
86— 18: 1,453,933
87— 9: 1,454,002
88— 16.8: 1,453,462
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27: 1,453,893
47: 1,453,632
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89— 2: 1,453,974
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90— 12.5: 1,453,643
13.1: 1,453,654
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60: 1,453,350
91— 10: 1,453,920
92— 46: 1,453,438
93— 6: 1,454,008
11: 1,453,864
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94— 10: 1,453,261
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73: 1,453,537

97— 188: 1,453,891
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99— 11: 1,453,752
1,453,848
1,453,859
100— 31: 1,453,820
101— 9: 1,453,965
54: R. 15,589
186: 1,453,465
191: 1,453,853
316: 1,453,363
369: 1,453,384
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400: 1,453,787
407: 1,453,783
102— 36: 1,453,717
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103— 12: 1,453,681
51: 1,453,561
102: 1,453,847
154: 1,453,270
177: 1,453,653
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104— 23: 1,453,307
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122— 411: 1,453,965
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139— 85: 1,453,451
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149— 4: 1,453,800
150— 29: 1,453,455
151— 17: 1,453,921
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152— 8: 1,453,804
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12: 1,453,721
13: 1,453,949
14: 1,453,276
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16: 1,453,530
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38: 1,453,796
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154— 5: 1,453,852
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19: 1,453,748
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156— 39: 1,453,939
40: 1,453,440
158— 27.4: 1,453,385
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61: 1,453,907
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89: 1,453,519
92: 1,453,834
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161— 8: 1,453,929
162— 1: 1,453,513
164— 49: 1,453,319
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170— 37: 1,453,427
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172— 179: 1,453,412
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274: 1,453,529
276: 1,453,391
173— 330: 1,453,590
332: 1,453,817
356: 1,453,827
175— 30: 1,453,774
294: 1,453,492
315: 1,453,388
335: 1,453,555
355: 1,453,368
1,453,369
176— 7: 1,453,595
177— 329: R. 15,594
337: 1,453,911
339: 1,453,602
1,453,635
383: 1,453,868
386: 1,453,316
1,453,612
178— 44: 1,453,980
71: 1,453,982
98: 1,453,359
179— 54: 1,453,321
58: 1,453,321
81: 1,453,453
82: 1,453,387
170: 1,454,011
171: 1,453,430
1,453,584
185: 1,453,760
180— 14: 1,453,383
17: 1,453,265
27: 1,454,027
53: 1,453,618
64: 1,453,964
82: 1,453,264
1,453,995
92: 1,453,432
181— 23: 1,453,909
27: 1,453,879
32: 1,453,336
182— 12: 1,453,743
183— 7: 1,453,325
45: 1,453,627
187— 31: 1,453,551
1,453,915
188— 74: 1,453,600
97: 1,453,733
130: 1,453,344
194: 1,453,452
187: 1,453,890
199: 1,453,857
204: 1,453,597
213: 1,453,684
229: 1,453,538
189— 76: 1,453,822
190— 12: 1,453,946
191— 12: 1,454,017
44.1: 1,453,524

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aberfoyle Mfg. Co., Chester, Pa. Cotton piece goods. 167,887; May 8; Serial No. 167,968; published Feb. 13, 1923.

Adix Manufacturing Company, Boone, Iowa. Self-feeders, individual hog houses, and chicken coops. 167,675; May 8; Serial No. 139,705; published Dec. 26, 1922.

Allan & Gray, New York, N. Y. Cardboard and correspondence paper and envelopes. 167,997; May 8.

Allbestos Corporation, Philadelphia, Pa. Brake linings. 167,890; May 8; Serial No. 168,092; published Feb. 6, 1923.

Allen Auto Specialty Co. Inc., The, New York, N. Y. Shutter for automobile radiators. 167,986; Apr. 24.

Allen Bottling Co. (See Gitterman, Robert S.)

American Automobile Accessories Company, The, doing business as Crosley Manufacturing Company, Cincinnati, Ohio. Radioreceivers, radiodetectors, radioamplifiers, electrical condensers, etc. 167,760; May 8; Serial No. 170,476; published Jan. 30, 1923.

American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 168,033-4; May 8.

American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber rods, sheets, and tubes. 167,813; May 8; Serial No. 165,655; published Feb. 20, 1923.

American Milk Products Corporation, New York, N. Y. Canned sweetened milk. 167,815; May 8; Serial No. 164,019; published Feb. 20, 1923.

American Oil Company, The, Baltimore, Md. Gasoline motor fuels and lubricating oils. 167,769; May 8; Serial No. 173,222; published Feb. 13, 1923.

American Shoe Machinery and Tool Company, St. Louis, Mo. Shoe-repairing machines and tire or vulcanizing machinery. 167,967; May 8.

American Social Hygiene Association, New York and Albany, N. Y. Title of its educational and scientific quarterly magazine. 167,657; May 8; Serial No. 167,860; published Jan. 30, 1923.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Nails. 167,893; May 8; Serial No. 168,595; published Feb. 13, 1923.

American Textile Art Printing & Dyeing Company, Fort Wayne, Ind. Bedspreads, tablecloths, table covers, luncheon cloths, etc. 167,689; May 8; Serial No. 159,134; published Feb. 13, 1923.

American Tripoli Company, Seneca, Mo. Tripoli flour. 167,792; May 8; Serial No. 165,109; published Feb. 6, 1923.

Arden, Elizabeth. (See Lewis, Florence N.)

Armstrong Cork Company, Pittsburgh, Pa. Crown seals and closures for bottles, cork and cork-composition closures and seals for bottles. 167,850; May 8; Serial No. 164,293; published Feb. 20, 1923.

Arnold, F. R., & Co., New York, N. Y. Toilet preparation for refreshing and rejuvenating the skin and for removing wrinkles. 167,738; May 8; Serial No. 168,868; published Jan. 2, 1923.

Asher, Helen, doing business as Francis Lee & Company, San Francisco, Calif. Furniture polish. 167,925; May 8; Serial No. 170,603; published Feb. 13, 1923.

Associated Fruit Co., Miami, Fla. Fresh citrous fruits. 167,966; May 8.

Asthma-non Co. (See Bundt, Charles R.)

Atlantic-Pacific Radio Supplies Company. (See Oard Radio Laboratories.)

Atlantic Refining Company, The, Philadelphia, Pa. Oils, greases, etc. 167,603; May 8; Serial No. 160,105; published Feb. 13, 1923.

Atlantic Varnish Works, Inc., Richmond, Va. Varnish. 167,776; May 8; Serial No. 172,504; published Feb. 13, 1923.

Augusta Bedding Company, Augusta, Ga. Mattresses. 167,753; May 8; Serial No. 170,706; published Feb. 13, 1923.

Bagshaw, W. H., Co., Lowell, Mass. Talking-machine needles. 167,991; May 8.

Ballet, Guillaume, Hendon, London, England. Dyes for the hair. 167,807; May 8; Serial No. 167,218; published Feb. 13, 1923.

Barber Asphalt Paving Company, The, Philadelphia, Pa. Asphalt, asphalt cement, road asphalt, and paving block filler. 167,872; May 8; Serial No. 168,444; published Feb. 20, 1923.

Barber Asphalt Paving Company, The, Philadelphia, Pa. Motor and other oils and greases. 167,786; May 8; Serial No. 166,764; published Feb. 13, 1923.

Barron, Anderson Co., Boston, Mass. Men's suits and overcoats. 167,981; May 8.

Barton, Charles, doing business as Specialists Supply Company, Honolulu, Hawaii. Eye liquid. 167,835; May 8; Serial No. 169,234; published Feb. 13, 1923.

Basch, Herman, & Co., Inc., New York and Brooklyn, N. Y. Fur skins dressed and dyed. 167,946; May 8; Serial No. 169,752; published Feb. 6, 1923.

Bead Chain Manufacturing Company, The, Bridgeport, Conn. Bottle caps. 167,860; May 8; Serial No. 153,497; published Dec. 19, 1922.

Bertolais & Goedert, New York, N. Y. Coal-tar disinfectant. 167,922; May 8; Serial No. 169,472; published Jan. 9, 1923.

Black Silk Stove Polish Works, Sterling, Ill. Gas-range dressing and polishing oil. 167,650; May 8; Serial No. 168,445; published Jan. 23, 1923.

Blakeslee, G. S., & Co., Cicero, Ill. Machines for washing dishes and metal articles. 167,989; May 8.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 167,936; May 8; Serial No. 173,559; published Feb. 20, 1923.

Booth, F. E., Co., San Francisco, Calif. Recovered salad oil used as a base in the manufacture of greases and lubricating oil. 167,805; May 8; Serial No. 167,551; published Feb. 13, 1923.

Boulin, Camille H., doing business as Canson & Montgolfier, New York, N. Y. Handmade paper. 167,768; May 8; Serial No. 173,276; published Feb. 13, 1923.

Boyd, Charles G., Bethlehem, Pa. Foot powders. 167,643; May 8; Serial No. 168,629; published Jan. 30, 1923.

Boyd, John S., Co. Inc., Williamstown, Mass., and New York, N. Y. Corduroys in the piece. 167,673; May 8; Serial No. 173,227; published Feb. 27, 1923.

Briden, L. L., & Co., Boston, Mass. Dyes. 167,904; May 8; Serial No. 168,871; published Jan. 30, 1923.

Brine, James W., Company, Boston, Mass. Pillows. 167,771; May 8; Serial No. 172,731; published Feb. 13, 1923.

Brinton, Willard C., New York, N. Y. Prints, post cards, pictures, and photographs. 167,861; May 8; Serial No. 152,693; published Feb. 20, 1923.

Bristol-Myers Company, New York, N. Y. Cathartic and laxative preparation. 167,911; May 8; Serial No. 169,153; published Jan. 9, 1923.

Bristol-Myers Company, New York, N. Y. Cold cream. 167,913; May 8; Serial No. 169,156; published Jan. 9, 1923.

Bristol-Myers Company, New York, N. Y. Medicinal preparation. 167,912; May 8; Serial No. 169,154; published Jan. 9, 1923.

Bristol-Myers Company, New York, N. Y. Remedy for the relief of coughs, colds, etc. 167,744; May 8; Serial No. 169,526; published Jan. 9, 1923.

British American Metals Company Inc., New York, N. Y. Seamless brass tubes, seamless copper tubes, and condenser tubes. 167,803; May 8; Serial No. 160,392; published Feb. 13, 1923.

Brown, Caroline G., New York, N. Y. Corsets. 167,995; May 8.

Browne, John H., Aldwich, London, England. Face creams and powders, hair tonic, bath crystals, hair and flesh tonic water, etc. 167,725; May 8; Serial No. 153,236; published Jan. 30, 1923.

Brownewell, Donald F., Canton, Ohio. Cleaning compound for cleaning carpets, fabrics, etc., and hand soap. 167,918; May 8; Serial No. 169,278; published Jan. 2, 1923.

Brumby, R. G., doing business as Dixie Hosiery Mills, Atlanta, Ga. Hosiery. 167,814; May 8; Serial No. 164,860; published Dec. 5, 1922.

Buchner, W. J., doing business as The Mineola Silverware Cleaning Co., Glendive, Mont. Preparation for cleaning silverware. 168,026; May 8.

Buckeye Blower Company. (See Columbus Heating & Ventilating Company.)

Buckwalter Stove Company, Royersford, Pa. Gas, coal, wood, or coke cooking or heating stoves, ranges, etc. 167,724; May 8; Serial No. 152,232; published Jan. 2, 1923.

Bundt, Charles R., doing business as The Asthma-non Co., Detroit, Mich. Preparation for the treatment of asthma. 167,909; May 8; Serial No. 168,997; published Jan. 30, 1923.

Burton Bros. & Co., New York, N. Y. Cotton piece goods. 167,948; May 8.

California Fruit Selling Company, San Francisco, Calif. Dried and canned fruits. 167,700; May 8; Serial No. 165,667; published Feb. 13, 1923.

Canson & Montgolfier. (See Boulin, Camille H.)

Capell Salt Company, Salt Lake City, Utah. Salt. 168,014; May 8.

Capen, George H., doing business as Crow Blacking Co., Canton Junction, Mass. Shoe polish. 167,730; May 8; Serial No. 155,394; published Jan. 23, 1923.

Carpenter Chemical Company, Inc., New York, N. Y. Chemical preparation used to treat silk. 167,743; May 8; Serial No. 169,473; published Jan. 9, 1923.

Castello, Giacomo, Genoa, Italy. Medicinal cordial. 167,718; May 8; Serial No. 144,500; published Jan. 9, 1923.

Champion Fibre Company, The, Canton, N. C. Leather filler. 167,905; May 8; Serial No. 168,917; published Jan. 2, 1923.
Champion Tool Company, Meadville, Pa. Farriers' tools. 167,707; May 8; Serial No. 152,418; published July 25, 1922.
Chapman Self-Locking Nut Co., Baltimore, Md. Nut locks. 167,684; May 8; Serial No. 156,983; published Feb. 13, 1923.
Chatham, L., Sr., Products Company, Milwaukee, Wis. Soaps. 167,692; May 8; Serial No. 159,847; published Jan. 30, 1923.
Cherry-Bassett-Winner Company, Wilmington, Del., and Philadelphia, Pa. Nongelatinous combination of substances for use in the manufacture of ice cream. 167,881; May 8; Serial No. 166,132; published Feb. 20, 1923.
Chesebrough Manufacturing Co., Consolidated, New York, N. Y. Petroleum jelly and preparations thereof. 167,907; May 8; Serial No. 168,956; published Jan. 30, 1923.
Chore Utensils Corporation of America, The, Orange, N. J. Scouring utensils. 167,997; May 8; Serial No. 168,670; published Jan. 30, 1923.
Citizens' Wholesale Supply Co., The, Columbus, Ohio. Candy. 167,681; May 8; Serial No. 154,791; published Feb. 13, 1923.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. 167,990; May 8.
Clinton, E., & Co. Inc., Philadelphia, Pa. Hair, nail, tooth, flesh, etc., brushes. 167,952; May 8.
Cohen & Levinson, New York, N. Y. Hosiery, knitted underwear, and sweaters. 167,982; May 8.
Cole Visible Gas Gauge Company, Los Angeles, Calif. Illuminating reflectors. 167,862; May 8; Serial No. 152,363; published Feb. 6, 1923.
Coleman Lamp Co., Wichita, Kans. Self-heating gasoline sadirons and parts thereof. 168,012; May 8.
Colgate & Company, Jersey City, N. J. Soap. 167,949; May 8.
Collier, P. F., & Son Company, New York, N. Y. Series of books. 167,961–2; May 8.
Columbus Heating & Ventilating Company, The, doing business as Buckeye Blower Company, Columbus, Ohio. Combined heater and ventilator. 167,873; May 8; Serial No. 168,100; published Feb. 6, 1923.
Con-Ferro Paint & Varnish Co., St. Louis, Mo. Ready-mixed paints, varnish stains, and paint enamels. 167,928; May 8; Serial No. 171,258; published Feb. 13, 1923.
Continental Car Company of America, Louisville, Ky. Commercial truck bodies, dump, mine, quarry, and industrial car bodies. 167,827; May 8; Serial No. 170,008; published Feb. 20, 1923.
Corlear Products Co. Inc., The, New York, N. Y. Varnish resterer. 167,777; May 8; Serial No. 172,466; published Feb. 13, 1923.
Corona Foothill Lemon Company, Corona, Calif. Fresh lemons. 167,704; May 8; Serial No. 164,966; published Feb. 13, 1923.
Corona Foothill Lemon Company, Corona, Calif. Fresh lemons. 167,709; May 8; Serial No. 164,865; published Feb. 13, 1923.
Cortland Line Co., Inc., Cortland, N. Y. Shoe laces. 167,765; May 8; Serial No. 169,950; published Jan. 30, 1923.
Cough King Co., The, Oakland, Md. Preparation for the treatment of coughs and colds. 167,740; May 8; Serial No. 168,958; published Jan. 2, 1923.
Crosley Manufacturing Company. (See American Automobile Accessories Company.)
Crow Blacking Co. (See Capen, George H.)
Crown Shock-Absorber Co., Houston, Tex. Shock absorbers. 167,806; May 8; Serial No. 167,224; published Feb. 20, 1923.
Crysto Soap Co., Aurora, Ill. Mineral soap. 167,699; May 8; Serial No. 166,652; published Feb. 13, 1923.
Cuir Chemical Company, Bayard, Nebr. Lotion for eczema, pimples, itch, etc. 168,001; May 8.
Cusack, Thomas, Company, Chicago, Ill. Mechanical advertising, illuminated structural, painted board, and painted wall signs. 167,851; May 8; Serial No. 164,234; published Feb. 6, 1923.
Dahlberg & Company, Inc., Chicago, Ill. Composition of material for wall boards, lining for houses, etc. 167,788; May 8; Serial No. 166,175; published Feb. 6, 1923.
Dahlberg & Company, Inc., Chicago, Ill. Composition of material for wal boards, lining for houses, plaster bases, etc. 167,870; May 8; Serial No. 168,575; published Feb. 6, 1923.
Danderester Company. (See Shields, Belmont L.)
Davis, W. B., & Son, Fort Payne, Ala. Hosiery. 167,818; May 8; Serial No. 160,753; published Oct. 3, 1922.
Davy Brothers Limited, Sheffield, England. Forging presses, rolling mills, etc. 167,975; Apr. 24.
Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Fan belts. 167,891; May 8; Serial No. 168,104; published Jan. 30, 1923.
Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Rubber valve caps. 167,687; May 8; Serial No. 158,761; published Feb. 6, 1923.
Dickson Chemical Co. (See Dickson, Moses A.)
Dickson, Moses A., doing business as Dickson Chemical Co., Eatonton, Ga. Hair dressing. 167,745; May 8; Serial No. 169,533; published Jan. 9, 1923.
Dimit Co., Inc., The, Baltimore, Md. Electrically-operated headlight dimmers. 167,927; May 8; Serial No. 171,121; published Feb. 20, 1923.
Dixie Hosiery Mills. (See Brumby, B. G.)
Dorsey, William R., New York, N. Y. Cigarettes. 167,984; May 8.
Drake, John J., & Son, Amsterdam, N. Y. Ointment for treatment of sprains, sore muscles, insect bites, etc. 167,833; May 8; Serial No. 169,671; published Feb. 13, 1923.
Eagle Picher Lead Company, The, Cincinnati, Ohio. Pure white lead. 167,926; May 8; Serial No. 170,758; published Feb. 13, 1923.
Econ Oil & Gas Company, The, Lima, Ohio. Gasoline, kerosene, motor oils, greases, and lubricating oils. 167,775; May 8; Serial No. 172,641; published Feb. 13, 1923.
Electro Silicon Co., The, New York, N. Y. Preparation for cleaning and removing stains from clothing, upholsteries, etc. 167,875; May 8; Serial No. 167,461; published Feb. 6, 1923.
Elektrizitatswerk Lonza, Gampel and Basel, Switzerland. Burners for lighting, heating, and cooking purposes. 167,880; May 8; Serial No. 166,777; published Feb. 6, 1923.
Eleveyor Electric Industrial Truck Co., Brooklyn, N. Y. Industrial trucks. 167,828; May 8; Serial No. 170,012; published Feb. 13, 1923.
Elysee Olive Oil Company, Inc., New York, N. Y. Olive oil s and mixture of olive oils with other oils. 167,972; May 8.
Embassy Manufacturing Corporation, New York, N. Y. Athletic underwear for men. 167,791; May 8; Serial No. 165,488; published Feb. 6, 1923.
Ever Ready Auto Jack Corporation, Beacon, N. Y. Jacks for lifting automobiles and other vehicles. 167,965; May 8.
Everett & Barron Co., Providence, R. I. Cleaning, coloring, and polishing preparation for footwear. 167,642; May 8; Serial No. 168,676; published Jan. 2, 1923.
Everett and Barron Company, Providence, R. I. Compounds for cleaning, coloring, and polishing footwear. 167,784; May 8; Serial No. 166,817; published Jan. 30, 1923.
Everyday Piston Ring Company, Inc., Rochester, N. Y. Piston rings. 167,688; May 8; Serial No. 158,762; published Feb. 6, 1923.
Ex Lent Manufacturing Co., Jamaica, N. Y. Shoe dressing. 167,801; May 8; Serial No. 161,722; published Jan. 30, 1923.
Expanded Metal Engineering Company, New York, N. Y. Metal lath and corner beads. 167,722; May 8; Serial No. 149,741; published Jan. 30, 1923.
Fair-Sex Brassiere Co. (See Rubenstein, Benjamin.)
Famous Shoe Repair Company. (See Sarson, Teddy.)
Fenton, E. B., doing business as Dr. Fenton's Min-er-o Tone Co., Olin, Iowa. Preparations for the treatment of necro-bacillosis, green scours or bowel trouble in swine, etc. 167,841; May 8; Serial No. 168,840; published Feb. 13, 1923.
Flegle & Saxe, St. Louis, Mo. Chamois. 167,682; May 8; Serial No. 155,678; published Feb. 6, 1923.
Flexideal Company, The. (See Wheeler, W. B., Corporation.)
Ford Chemical Co. (See Henning, M. F.)
Foss, Christian, Tacoma, Wash. Checkerboards. 168,010; May 8.
Franklin Silver Plate Company, Greenfield, Mass. Tableware, scissors, shoehorns, buttonhooks, buffers, etc. 167,680; May 8; Serial No. 147,872; published Feb. 6, 1923.
Fried. Mendelson & Co., New York, N. Y. Silk, silk and cotton mixed, and cotton piece goods. 167,892; May 8; Serial No. 168,148; published Feb. 13, 1923.
Friedrich-Friedrich Chemical Company, Philadelphia, Pa. Shampoos. 168,030; May 8.
Fries, Beall & Sharp Co., Inc., Washington, D. C. Roof and ready-mixed paint. 167,943; May 8; Serial No. 169,584; published Feb. 13, 1923.
Fries, Beall & Sharp Co., Inc., Washington, D. C. Stove boards and conductor pipe. 167,944; May 8; Serial No. 169,585; published Feb. 13, 1923.
Frutrite Products Company, Los Angeles, Calif. Jams, jellies, marmalades, fruit preserves, and butters, etc. 167,697; May 8; Serial No. 166,991; published Feb. 20, 1923.
Gardiner & Lewis, Inc., New York, N. Y. Asphaltic paints used for waterproofing buildings, expansion joints, etc. 167,676; May 8; Serial No. 141,367; published Feb. 13, 1923.
Gardner, Henry A., Washington, D. C. Waterproofing plastic compositions for roads and cement constructions. 167,648-9; May 8; Serial Nos. 168,524–5; published Jan. 9, 1923.
Gayhart Millinery Corporation, Milwaukee, Wis. Models (hats and untrimmed shapes). 168,002; May 8.
Gibbs, Edward F.-G. Gibbs, doing business as Rigid Tool Holder Company, Washington, D. C. Metal-working-machine tools and tool holders. 167,973; May 8.
Gitterman, Robert S., doing business as Allen Bottling Co., Wichita, Kans. Natural mineral water and ginger ale. 168,013; May 8.

Glenco Chemical Co., Troy, N. Y. Cleansing powder. 167,901; May 8; Serial No. 169,357; published Jan. 30, 1923.
Gloria Co., Chicago, Ill. Face enamel for use as a skin curative. 167,653; May 8; Serial No. 167,940; published Jan. 9, 1923.
Gluck, Edward V., doing business as Safe-T Fuse Handle Co., Richmond Hill, assignor to Safe-T Fuse Handle Co. Inc, Woodhaven, N. Y. Safety devices for handling electric fuses. 167,715; May 8; Serial No. 139,206; published Jan. 23, 1923.
Golden West Packing Co., Los Angeles, Calif. Canned fruits and vegetables. 167,869; May 8; Serial No. 168,679; published Feb. 20, 1923.
Goldenberg's, Washington, D. C. Refrigerators, ice chests, nursery boxes, water coolers. 167,666; May 8; Serial No. 170,643; published Feb. 20, 1923.
Goldsmith, Stern & Co., New York, N. Y. Baby pins, bar pins, bead neckchains, belt buckles, bib holders, etc. 167,780; May 8; Serial No. 171,418; published Feb. 6, 1923.
Goodwin, Harry L., doing business as Post-Golden Rule Fuel Co., Kansas City, Mo. Coal. 167,636; May 8; Serial No. 167,871; published Jan. 9, 1923.
Goodwin, J. V., & Co. (See Van Goodwin, J.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires comprised wholly or in part of rubber. 167,685; May 8; Serial No. 156,991; published Feb. 6, 1923.
Goshen Manufacturing Co., The, Goshen, Ind. Ladders. 167,923; May 8; Serial No. 170,245; published Feb. 20, 1923.
Grady, M. J., Company, Incorporated, The, New York, N. Y. Threads and yarns. 167,770; May 8; Serial No. 170,078; published Feb. 13, 1923.
Greenberg, Harry, Co., Inc., New York, N. Y. Women's and misses' coats, cloaks, and suits. 168,022; May 8.
Haack & Company, Newark, N. J., and Brooklyn, N. Y. Hides, furs. 167,823; May 8; Serial No. 156,901; published Feb. 20, 1923.
Hall Wheel Corporation, Philadelphia, Pa. Vehicle wheels. 167,825; May 8; Serial No. 170,137; published Feb. 13, 1923.
Halove Company, Inc., The, New York, N. Y. Paste paints. 167,895; May 8; Serial No. 168,609; published Feb. 13, 1923.
Halpern, David, and Greenberg, New York, N. Y. Pants, coats, vests, and men's outer garments for summer wear. 167,793; May 8; Serial No. 165,020; published Feb. 6, 1923.
Halseth, Rasmus J., Madison, S. Dak. Medicinal compound for treating the scalp. 168,011; May 8.
Hamilton, Wm. G., doing business as Hamilton Specialty Company, Circleville, Ohio. Hair nets. 167,752; May 8; Serial No. 170,820; published Feb. 13, 1923.
Harris, John A., Pueblo, Colo. Malted milk for use in making beverages. 167,817; May 8; Serial No. 161,885; published Feb. 20, 1923.
Haskins Brothers & Company, Sioux City, Iowa, and Omaha, Nebr. Soap. 167,655; May 8; Serial No. 167,873; published Jan. 2, 1923.
Hatton, Edward J., doing business as Hatton Mfg. Co., Chicago, Ill. Hair tonic. 167,808; May 8; Serial No. 166,368; published Feb. 13, 1923.
Hatton, Edward J., doing business as Hatton Mfg. Co., Chicago, Ill. Hair tonics. 167,839; May 8; Serial No. 168,528; published Feb. 13, 1923.
Hatton Mfg. Co. (See Hatton, Edward J.)
Hayes, F. C., Newport, R. I. Hair tonic. 167,919; May 8; Serial No. 169,301; published Jan. 9, 1923.
Heineman, Arthur S., Los Angeles, Calif. Furniture—namely, chairs, tables, and desks. 167,721; May 8; Serial No. 148,885; published Jan. 30, 1923.
Heinemann Electric Company, Philadelphia, Pa. Battery switches, vacuum-tube sockets, lighting switches, etc. 167,865; May 8; Serial No. 169,208; published Feb. 6, 1923.
Henning, M. F., doing business as Ford Chemical Co., Oakland, Calif. Ant powder. 168,020; May 8.
Henry, Robt. J., Alameda Calif. Cleansing solution having bleaching properties. 167,654; May 8; Serial No. 167,875; published Dec. 26, 1922.
High Score Products Co. (See Langfeld, Daniel.)
Hoeft & Company, Inc., Chicago, Ill. Poultry drinking fountains, combined poultry drinking fountain and feeders, baby-chick feeders, poultry feeding troughs, etc. 167,848; May 8; Serial No. 164,539; published Dec. 26, 1922.
Hoffman Bros. Inc., New York, N. Y. Watches, clocks, and parts thereof. 167,779; May 8; Serial No. 171,798; published Feb. 13, 1923.
Hogan, J. J., Incoroprated, La Crosse, Wis. Canned fruits, vegetables, and fish, and coffee. 167,711; May 8; Serial No. 161,130; published Feb. 20, 1923.
Holstein Rubber Company, The, Hartford, Conn. Single and double faced rubber sheeting. 167,868; May 8; Serial No. 168,681; published Feb. 20, 1923.
Home Products Inc., Rahway, N. J. Carbon-tetrachloride cleansing preparation. 167,789; May 8; Serial No. 165,952; published Jan. 30, 1923.
Hornung, Ernest W., doing business as The Hubbell Manufacturing Co., Cleveland, Ohio. Glass curtain lights and windshields for automobiles. 167,974; May 8.
Horst, Frederick F., doing business as Northwest Chemical Co., Bellingham, Wash. Washing tablets, washing compounds, windshield cloths, and chemically-treated polishing cloths. 167,790; May 8; Serial No. 163,169; published Jan. 30, 1923.
Hosch Brothers Company, Gainesville, Ga. Ginghams, chambrays, cheviots, etc., in the piece. 167,762; May 8; Serial No. 170,194; published Feb. 13, 1923.
Hubbell Manufacturing Co. (See Hornung, Ernest W.)
Humber Limited, Coventry, England. Cycles. 167,729; May 8; Serial No. 154,512; published Jan. 30, 1923.
Hyman & Oppenheim, New York, N. Y. Hair goods. 167,894; May 8; Serial No. 167,301; published Feb. 13, 1923.
Hyman & Oppenheim, New York, N. Y. Raw hair and prepared hair stock. 167,924; May 8; Serial No. 170,293; published Feb. 20, 1923.
International Silver Company, Meriden and Bridgeport, Conn. Silver-plated flat tableware. 167,980; May 8.
International Toy Company, Limited, The, Montreal, Quebec, Canada. Toy horses. 167,942; May 8; Serial No. 171,997; published Feb. 20, 1923.
Internationala Limited, Chicago, Ill. Soap. 167,956; May 8.
Ingersoll, Robt. H., & Bro., New York, N. Y., assignor, by mesne assignments, to Waterbury Clock Company, Watches and clocks. 167,686; May 8; Serial No. 158,476; published Feb. 13, 1923.
Jergens, Andrew, Company of California, Burbank, Calif. Toilet soap. 167,683; May 8; Serial No. 156,904; published Jan. 30, 1923.
Jones, Ada R., Bozeman, Mont. Figure ornaments for decorative purposes. 167,858; May 8; Serial No. 156,744; published Jan. 30, 1923.
Kahn, Morris A., San Antonio, Tex. Lubricating oils and greases. 167,820; May 8; Serial No. 159,873; published Feb. 13, 1923.
Karnes, E. L., doing business as The Puritol Company, Kansas City, Mo. Meat preservative, flavoring and coloring compound in liquid form. 167,930; May 8; Serial No. 171,369; published Feb. 13, 1923.
Karp, Joseph H., New York, N. Y. Blenches for hats, shoes, and fabrics, tooth and skin bleaches, etc. 167,878; May 8; Serial No. 107,178; published Feb. 6, 1923.
Karp, Joseph H., New York, N. Y. Nail bleach, nail polish, cold cream, sachet powder, lip stick, etc. 167,853; May 8; Serial No. 163,886; published Feb. 6, 1923.
Kelper, A. August, doing business as Kelper Candy Co., Wilkes-Barre, Pa. Candy and a candied sweetmeat—namely, popcorn. 167,691; May 8; Serial No. 160,014; published Feb. 13, 1923.
Kelper Candy Co. (See Kelper, A. August.)
Kelly, F., Company, The, Derby, Conn. Safety pins. 167,750; May 8; Serial No. 170,686; published Jan. 9, 1923.
Kilbourne & Jacobs Manufacturing Company, The, Columbus, Ohio. Wheelbarrows and parts thereof. 167,899; May 8; Serial No. 168,845; published Feb. 6, 1923.
Kimball, C. M., Company, Winthrop, Mass. Ammonia. 167,934; May 8; Serial No. 172,000; published Feb. 20, 1923.
King, John D., sr., Charleston, W. Va. Salve, ointment, and liniment to be used in the treatment of sore throat, whooping cough, etc. 167,940; May 8; Serial No. 171,928; published Feb. 20, 1923.
King's Food Products Company, Portland, Oreg. Canned and dehydrated fruits and vegetables. 167,702; May 8; Serial No. 165,393; published Feb. 13, 1923.
King's Food Products Company, Portland, Oreg. Canned and dehydrated fruits and vegetables. 167,703; May 8; Serial No. 165,390; published Feb. 13, 1923.
King's Food Products Company, Portland, Oreg. Canned and dehydrated fruits and vegetables. 167,708; May 8; Serial No. 165,388; published Feb. 13, 1923.
Kinloch Hosiery Mills, The, Chicago, Ill. Hosiery. 167,832; May 8; Serial No. 169,956; published Feb. 13, 1923.
Kirschbraun & Sons, Inc., Omaha, Nebr. Creamery butter. 167,886; May 8; Serial No. 167,819; published Feb. 6, 1923.
Knox, James H., Hardisty, Alberta, Canada. Veterinary and poultry medicines. 167,849; May 8; Serial No. 164,505; published Feb. 6, 1923.
Kohler & Campbell, Incorporated, New York, N. Y. Pianos and player pianos. 167,987; Apr. 24.
Kohler Company, Kohler, Wis. Electric generating plants. 167,671; May 8; Serial No. 172,889; published Feb. 20, 1923.
Kohnstamm, H., & Co., New York, N. Y., assignor to H. Kohnstamm & Co., Inc. Washing powder for laundry purposes. 167,727; May 8; Serial No. 154,369; published Jan. 2, 1923.
Kohnstamm, H., & Co., (See Kohnstamm, H., & Co., assignor.)
Koss, Edward F., doing business as Koss Products, Washington, D. C. Antiseptic and cooling lotion for use after shaving. 167,871; May 8; Serial No. 168,535; published Feb. 6, 1923.
Koss Products. (See Koss, Edward F.)
Kreisler, Jacques & Co., New York, N. Y. Chains for personal adornment. 168,031; May 8.
Kryslak, John, Four Corners, Wyo. Sleighs. 167,764; May 8; Serial No. 170,142; published Feb. 6, 1923.

Kunz Preparation's Co. (See Minneapolis Brewing Company.)
L. J. & C. D. Jaffee, Inc., New York, N. Y. Coats and trousers. 168,023; May 8.
Lam, Glines & Co., Inc., New York, N. Y. Tea. 167,879; May 8; Serial No. 167,138; published Feb. 20, 1923.
Langfeld, Daniel, doing business as High Score Products Co., Omaha, Nebr. Creamery butter. 167,876; May 8; Serial No. 167,182; published Jan. 9, 1923.
Langfeld, Daniel, doing business as High Score Products Co., Omaha, Nebr. Creamery butter and eggs. 167,877; May 8; Serial No. 167,181; published Jan. 9, 1923.
Larned, Carter & Company, Detroit, Mich. Overalls, pants, and coats. 167,905; May 8.
Latham, S. A., Andalusia, Ala. Liniment and antiseptic for external application in the treatment of rheumatism, blood poison, infections, etc. 167,937; May 8; Serial No. 172,602; published Feb. 20, 1923.
Latheral Soap Company, Tampa, Fla. Soap. 167,757; May 8; Serial No. 170,531; published Jan. 30, 1923.
Laundrene Soap Co., Seattle, Wash. Soap. 167,720; May 8; Serial No. 146,079; published Dec. 26, 1922.
Leaby, George F., Syracuse, N. Y. Preparation for the relief of chronic and acute neuritis. 167,659; May 8; Serial No. 167,821; published Jan. 30, 1923.
Lee, Francis, & Company. (See Asher, Helen.)
Lehon Company, The, Chicago, Ill. Asphalt shingles. 167,908; May 8; Serial No. 168,975; published Jan. 9, 1923.
Levi and Seligman, Inc., New York, N. Y. Underwear, hosiery, sweaters, etc. 168,005; May 8.
Levin, Herman R., Los Angeles, Calif. Pearl necklaces, bracelets, sautoirs, earrings, etc. 167,756; May 8; Serial No. 107,532; published Feb. 6, 1923.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Dentifrice. 168,037; May 8.
Lindau, Jules W., jr., New York, N. Y. Envelopes. 167,663; May 8; Serial No. 169,979; published Feb. 20, 1923.
London Lightingwares Corporation, New York, N. Y. Electric heaters. 168,019; May 8.
Loose-Wiles Biscuit Company, also doing business as Loose-Wiles Company, Kansas City, Mo. Chocolate bars. 167,710; May 8; Serial No. 161,492; published Feb. 20, 1923.
Lovejoy Laboratories. (See Schwartzman, Theodore I.)
Lyons Bros. Co., The, Dallas, Tex. Fruit beverage sold as a soft drink and syrups for preparation of same. 167,668; May 8; Serial No. 172,752; published Feb. 20, 1923.
M M Importing Co., New York, N. Y. Smokers' pipes. 167,667; May 8; Serial No. 171,705; published Jan. 30, 1923.
McCafferty, James A., & Sons Manufacturing Company, Inc., Brooklyn, N. Y. White lead. 167,896; May 8; Serial No. 168,645; published Feb. 13, 1923.
McLean, Loula K., doing business as Metouck Specialty Agency, Mount Kisco, N. Y. Music sheets, completely-printed books, photoprints, and printed poems. 167,857; May 8; Serial No. 159,165; published Feb. 20, 1923.
McPhee & McGinnity Company, Denver, Colo. Color varnish. 167,774; May 8; Serial No. 172,645; published Feb. 13, 1923.
Magnete Corporations Company, Holland, Mich. Molded composition structures for building and appurtenances reating thereto and molded composition building tile. 167,759; May 8; Serial No. 170,497; published Feb. 6, 1923.
Mallinson, H. R., & Co. Inc., New York, N. Y. Scarfs and mufflers of silk. 167,994; May 8.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 167,670; May 8; Serial No. 172,755; published Feb. 13, 1923.
Mansfield, Richard H., Cottage City, Md. Cartoons. 167,855; May 8; Serial No. 161,746; published Feb. 20, 1923.
Manufacturer's Motor Products Co., Los Angeles, Calif. Piston-ring expanders. 167,751; May 8; Serial No. 167,919; published Feb. 6, 1923.
Maritime Milling Co. Inc., New York, N. Y. Poultry and stock food. 168,015; May 8.
Marre, E., & Bro., Oakland, Calif. Canned fruits, vegetables, and fish, jams, jellies, etc. 168,018; May 8.
Martin-Senour Company, The, Chicago, Ill. Paints (liquid, paste, or semipaste), paint enamels, japans, varnishes, stains, etc. 167,821; May 8; Serial No. 155,358; published Feb. 13, 1923.
Martorelli, Raffaele, New York, N. Y. Peeled tomatoes and tomato paste. 167,732; May 8; Serial No. 156,453; published Dec. 26, 1922.
Mason City Oil & Grease Company. Mason City, Iowa. Gasoline. 168,016; May 8.
Melcher, Paradise & Landau (now by change of name Melcher & Landau), Chicago, Ill. Infants' bootees, bibs, bonnets, coats, etc. 167,795; May 8; Serial No. 164,650; published Feb. 6, 1923.
Merrell, George F., Inc., Rochester, N. Y. Washing machinery for clothes and laundry. 167,798; May 8; Serial 163,641; published Feb. 6, 1923.
Merriam Manufacturing Company, Durham, Conn. Security, office, bond, etc., tin boxes. 168,004; May 8.
Merton, Charles S., & Co., Rutherford, N. J. Hats and caps. 167,794; May 8; Serial No. 164,717; published Feb. 6, 1923.
Metallic Industries, Inc., St. Louis, Mo. Teeters. 168,006; May 8.
Metouck Specialty Agency. (See McLean, Loula K.)
Miller Auto Accessories Co., The, Cleveland, Ohio. Automobile tops, windshields, fenders, etc. 167,958; May 8.
Miller Lock Company, Philadelphia, Pa. Locks. 167,970; May 8.
Minneapolis Brewing Company, doing business as Kunz Preparations Co., Minneapolis, Minn. Bay rum, witch-hazel, alcohol body rub, lilac face lotion, etc. 167,864; May 8; Serial No. 169,315; published Feb. 20, 1923.
Minnesota Mining & Mfg. Company, St. Paul, Minn. Abrasive paper. 167,713; May 8; Serial No. 154,278; published Feb. 13, 1923.
Monroe, Lederer and Taussig, Philadelphia, Pa. Dry and ready-mixed paints, paint enamels, stains, and varnishes. 167,929; May 8; Serial No. 171,336; published Feb. 13, 1923.
Monroe, Lederer & Taussig, Philadelphia, Pa. Dry and ready-mixed paints, paint enamels, stains, and varnishes. 167,932–3; May 8; Serial Nos. 171,811–12; published Feb. 13, 1923.
Montevallo-Straven Coal Co., Straven, Ala. Coal. 167,963; May 8.
Mosso, C. A., Laboratories. (See Shipman, Clara M.)
Munsell Color Company, Inc., New York, N. Y. Pressed pastel, wax, and chalk crayons, color atlas, etc. 167,696; May 8; Serial No. 167,683; published Feb. 20, 1923.
Mutual Oil Company, Kansas City, Mo. Motor lubricating oil. 168,025; May 8.
N-D-N Products Co., Buffalo, N. Y. Carbon remover. 167,916; May 8; Serial No. 169,255; published Jan. 9, 1923.
Nantex Mfg. Co. Inc., New York, N. Y. Men's athletic underwear. 167,898; May 8; Serial No. 168,686; published Feb. 6, 1923.
National Aniline & Chemical Company Incorporated, New York, N. Y. Coal-tar chemicals or ingredients, rubber accelerators or catalyzers, etc. 167,660; May 8; Serial No. 167,823; published Jan. 30, 1923.
National Biscuit Company, New York, N. Y. Biscuits and crackers. 167,960; May 8.
National Committee for Mental Hygiene, Inc., New York and Albany, N. Y. Title of its educational and scientific quarterly magazine. 167,754; May 8; Serial No. 170,661; published Jan. 2, 1923.
National Drug and Chemical Company of Canada, Limited, Montreal, Quebec, Canada. Pills for pimples, boils, blackheads, and other skin diseases. 167,804; May 8; Serial No. 168,274; published Feb. 13, 1923.
National Grave Vault Co., The, Galion, Ohio. Grave vaults. 168,035; May 8.
National Trading Company, Chicago, Ill. Hair nets and veils. 167,976; May 8.
Navigato, William A., Chicago, Ill. Cheese for macaroni. 167,641; May 8; Serial No. 168,849; published Jan. 16, 1923.
Needham's, D., Sons. (See Needham, Earle J.)
Needham, Earle J., doing business as D. Needham's Sons, Chicago, Ill. Candy laxative, ointments, red-clover extracts. 167,914; May 8; Serial No. 169,178; published Jan. 30, 1923.
Nehring, A., & Sons Co., Chicago, Ill. Cleaning compound for cleaning painted and varnished walls, woodwork, and floors. 167,766; May 8; Serial No. 169,916; published Jan. 30, 1923.
New England Fibre Mills, Derry, N. H. Mattresses. 167,772–3; May 8; Serial Nos. 172,648–9; published Jan. 30, 1923.
New England Pressed Steel Company, Natick, Mass. Electric tail lights, stop lights, backing lights, direction signals, etc. 167,931; May 8; Serial No. 171,430; published Feb. 20, 1923.
New Zealand Refrigerating Company, Limited, The, Christchurch, New Zealand. Tallow largely used in soap making. 167,645–7; May 8; Serial Nos. 168,586–8; published Jan. 9, 1923.
Nickelsburg Brothers Company, The, Newark, N. J. Partly-prepared leather used in the manufacture of boudoir slippers, bathing shoes, etc. 167,797; May 8; Serial No. 163,762; published Feb. 6, 1923.
Noblesville Milling Co., Noblesville, Ind. Wheat flour. 167,844; May 8; Serial No. 165,239; published Jan. 30, 1923.
Norris, Inc., Atlanta, Ga. Candy. 167,969; May 8.
Norristown Hosiery Mills, Lansdale, Pa. Hosiery. 167,826; May 8; Serial No. 169,983; published Feb. 13, 1923.
Northwest Chemical Co. (See Horst, Frederick F.)
Nu-Tone Products Co., Cascade, Mont. Phonograph-record renewer cleaning preparation. 167,903; May 8; Serial No. 168,851; published Jan. 2, 1923.
Oard Radio Laboratories, doing business as Atlantic-Pacific Radio Supplies Company, Stockton, Calif. Radio receiving sets. 167,783; May 8; Serial No. 170,894; published Jan. 30, 1923.
Oppenheimer, Herbert, doing business as Slenda Form Laboratories, New York, N. Y. Salve or cream recommended for the reduction of adipose tissue. 167,836; May 8; Serial No. 169,495; published Feb. 13, 1923.
Oral Laboratories. (See Poor, Roger A.)
Oshkosh Overall Company, Oshkosh, Wis. Overalls, work shirts, and jackets. 168,000; May 8.

Pacault, Ernestine J. G., Forest-Brussels, Belgium. Electrical apparatus. 167,714; May 8; Serial No. 138,019; published Jan. 23, 1923.
Palladay Welding & Manufacturing Company, Seattle, Wash. Soldering flux. 167,840; May 8; Serial No. 168,548; published Feb. 13, 1923.
Parrish, Amos, New York, N. Y. Fashion publication issued twice a week. 167,830; May 8; Serial No. 169,923; published Feb. 20, 1923.
Paxton and Gallagher Co., Omaha, Nebr. Candy. 167,701; May 8; Serial No. 165,410; published Feb. 20, 1923.
Pedigreed Seed Company, Hartsville, S. C. Farm and garden seeds. 167,694; May 8; Serial No. 167,890; published Feb. 20, 1923.
Pierce Company, The, East Rochester, N. Y. Oils for treating artificial and real leather. 167,915; May 8; Serial No. 169,224; published Jan. 2, 1923.
Pilcher, Albert S., New Orleans, La. Piano polish. 167,758; May 8; Serial No. 170,504; published Feb. 13, 1923.
Pioneer Soap Company, The, Dayton, Ohio. Preparation for cleaning and polishing metal, glass, enamel ware, etc. 167,796; May 8; Serial No. 163,824; published Jan. 30, 1923.
Pittsburgh-Des Moines Steel Company, Pittsburgh, Pa. Manufactured structural steel for buildings, bridges, towers, etc. 167,867; May 8; Serial No. 168,940; published Feb. 20, 1923.
Pneumatic Cushion Company, San Francisco, Calif. Air springs for vehicles. 167,954; May 8.
Polizzi, Orazio, New York, N. Y. Picture postal cards. 168,036; May 8.
Pollack, Dr., Health Products Corp., New York, N. Y. Antiseptic, germicidal, and therapeutic compositions for vaginal douching. 167,652; May 8; Serial No. 168,064; publish Jan. 9, 1923.
Pollard, Frank L., Co., Inc., Oakland, Calif. Clothes racks for drying clothes. 167,902; May 8; Serial No. 169,374; published Feb. 6, 1923.
Poor, Roger A., doing business as Oral Laboratories, Salem, Mass. Medicated chewing gum for gum and teeth diseases. 167,658; May 8; Serial No. 167,829; published Jan. 9, 1923.
Post-Golden Rule Fuel Co. (See Goodwin, Harry L.)
Power Supply Company, Terre Haute, Ind. Power belting, hose, packing, etc. 167,719; May 8; Serial No. 145,647; published Jan. 9, 1923.
Prest-O-Lite Company, Inc., The, Indianapolis, Ind. Welding apparatus using gas. 167,674; May 8; Serial No. 107,374; published Feb. 6, 1923.
Pure Oil Company, The, Columbus, Ohio. Petroleum substitute for turpentine. 167,822; May 8; Serial No. 155,319; published Feb. 13, 1923.
Puritol Company, The. (See Karnes, E. L.)
Pyro-Form Laboratories, Los Angeles, Calif. Preparations for the treatment of pyorrhea. 167,842; May 8; Serial No. 169,083; published Feb. 13, 1923.
Queen City Bottling Company, The, Cincinnati, Ohio. Fruit beverage, sold as a soft drink and syrups therefor. 167,778; May 8; Serial No. 171,955; published Feb. 13, 1923.
Radio Specialty Co., New York, N. Y. Radio apparatus. 167,829; May 8; Serial No. 169,869; published Feb. 20, 1923.
Ra-Do Corporation, The, Bay City, Mich. Variocouplers, variometers, detector and amplifying units, tuners, etc. 167,810; May 8; Serial No. 165,968; published Feb. 20, 1923.
Raybestos Company, The, Bridgeport, Conn. High-pressure sheet packing. 167,731; May 8; Serial No. 155,932; published Jan. 2, 1923.
Rees Manufacturing Company, Pittsburgh, Pa. Safety mirrors. 167,988; May 8.
Richards & Co. (London) Limited, London, Eng'and. Dates. 167,717; May 8; Serial No. 144,297; published Aug. 1, 1922
Rigaud, Henri, doing business as Rigaud, Paris, France, and New York, N. Y. Face powder tint. 168,028; May 8.
Rigid Tool Holder Company. (See Gibbs, Edward F.-G.)
Rike Folding Box Company, The, Dayton, Ohio. Paper garment bags. 167,998; May 8.
Riodela Chemical Co., Wilmington, Del. Boiler compounds. 167,821; May 8; Serial No. 170,216; published Feb. 13, 1923.
Roberts, W. M., Chicago, Ill. Medical preparation for treatment of asthma. 167,746; May 8; Serial No. 169,562; published Jan. 9, 1923.
Rogers, Urbane E., Company, The, Dallas, Tex. Vegetable and animal oil soap. 167,999; May 8.
Rolzup Auto-Robe Corporation, New York, N. Y. Robe containers for automobiles. 167,763; May 8; Serial No. 170,157; published Feb. 6, 1923.
Ronzoni Macaroni Company, Inc., Long Island City, N. Y. Alimentary paste products. 167,978; May 8.
Roper, Geo. D., Corporation, Rockford, Ill. Electric stoves and ranges. 167,938; May 8; Serial No. 171,655; published Feb. 6, 1923.
Rosenberg, Frances, New York, N. Y. Ladies' bloomers, brassières, step-ins, etc. 167,992; May 8.
Rosenfeld, John, Washington, D. C. Imitation pearls. 167,782; May 8; Serial No. 171,006; published Feb. 6, 1923.
Rosenthal, Edward S., doing business as Sportsman's Digest, Cincinnati, Ohio. Monthly publication. 167,734; May 8; Serial No. 168,002; published Jan. 2, 1923.
Ross, Sydney, Co., The, Newark, N. J. Purgatives or laxative tablets. 167,739; May 8; Serial No. 168,903; published Jan. 2, 1923.
Rubenstein, Benjamin, doing business as Fair-Sex Brassiere Co., New York, N. Y. Brassières. 167,802; May 8; Serial No. 161,146; published Feb. 6, 1923.
Rudnick, Harry, New York, N. Y. Medicated foot powder for human use. 167,747; May 8; Serial No. 169,564; published Jan. 9, 1923.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings. 167,742; May 8; Serial No. 169,258; published Jan. 9, 1923.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings. 167,749; May 8; Serial No. 170,548; published Jan. 9, 1923.
Russell Manufacturing Co., The, Middletown, Conn. Garters. 167,953; May 8.
Safe-T Fuse Handle Co. (See Gluck, Edward V.)
Saks & Company, New York, N. Y. Women's bathing suits. 167,863; May 8; Serial No. 152,106; published Mar. 28, 1922.
Sarson, Teddy, doing business as Famous Shoe Repair Company, Pontiac, Mich. Slipper soles and heels and boots and shoes. 167,679; May 8; Serial No. 147,684; published Feb. 6, 1923.
Sawdey and Hunt, Los Angeles, Calif. Fresh cantaloupes. 167,698; May 8; Serial No. 166,726; published Feb. 20, 1923.
Schaefer, Maria A., New York, N. Y. Hair tonic. 167,939; May 8; Serial No. 171,870; published Feb. 20, 1923.
Schick, Harry C., Inc., Newark, N. J. Necklace clasps and fasteners. 167,785; May 8; Serial No. 166,960; published Feb. 6, 1923.
Schmalz, Philomena, & Co., Pitcairn, Pa. Hair restorer. 167,874; May 8; Serial No. 168,004; published Feb. 6, 1923.
Schueller, E., Paris, France. Soaps. 167,716; May 8; Serial No. 144,157; published Jan. 30, 1923.
Schwartzman, Theodore I., doing business as Lovejoy Laboratories, Brooklyn, N. Y. Face and talcum powders, face creams, hair tonics, etc. 168,017; May 8.
Scott, Edwin A., Publishing Co., New York, N. Y. Bi-weekly magazine. 167,859; May 8; Serial No. 156,660; published Feb. 20, 1923.
Sears, Roebuck and Co., Chicago, Ill. Catalogues published semiannually. 167,921; May 8; Serial No. 169,424; published Jan. 30, 1923.
Sharon Pressed Steel Co., Sharon, Pa. Doilies. 167,790; May 8; Serial No. 165,765; published Feb. 6, 1923.
Sharon Pressed Steel Co., Sharon, Pa. Hand trucks. 167,812; May 8; Serial No. 165,764; published Feb. 13, 1923.
Sharon Pressed Steel Co., Sharon, Pa. Trailers. 167,811; May 8; Serial No. 165,766; published Feb. 13, 1923.
Sharpe, Frank H., Dorchester, Mass. Machines for dividing dough. 167,663; May 8; Serial No. 169,260; published Feb. 20, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Paint, paint enamels, varnishes, stains, lacquers, etc. 167,678; May 8; Serial No. 147,470; published Feb. 13, 1923.
Shields, Belmont L., doing business as Dandereater Company, Leesville, La. Hair tonic. 167,741; May 8; Serial No. 168,985; published Jan. 2, 1923.
Shipman, Clara M., doing business as C. A. Mosso Laboratories, Chicago, Ill. Antiseptic liniment for first-aid treatment of burns, cuts, bruises, etc. 167,809; May 8; Serial No. 166,265; published Feb. 13, 1923.
Slenda Form Laboratories. (See Oppenheimer, Herbert.)
Sliding Valves, Incorporated, Jersey City, N. J. Metal valves for general use. 167,979; May 8.
Smith, Kline & French Co., Philadelphia, Pa. Bathing alcohol for external use. 167,737; May 8; Serial No. 168,735; published Jan. 2, 1923.
Smithfield's Pure Food Company, Rochester, N. Y. Canned fruits and vegetables, jams, etc. 167,955; May 8.
Snow, Jack D., New York, N. Y. Stylographic pens. 167,661; May 8; Serial No. 168,005; published Feb. 20, 1923.
Societe des Produits Chimiques Coignet, Paris, France. Gelatin. 167,845; May 8; Serial No. 165,097; published Feb. 6, 1923.
Sopura Soap Products, Inc., The, New Rochelle, N. Y. Laundry and toilet soaps. 167,761; May 8; Serial No. 170,343; published Jan. 30, 1923.
Southern Coal & Coke Co., The, Cincinnati, Ohio. Coal. 167,748; May 8; Serial No. 169,656; published Dec. 19, 1922.
Southern Gem Coal Corporation, Chicago, Ill. Coal molded and pressed into briquettes. 167,695; May 8; Serial No. 167,832; published Feb. 20, 1923.
Southern Oil & Feed Mills, Inc., Petersburg, Va. Livestock feed. 167,959; May 8.
Specialists Supply Company. (See Barton, Charles.)
Spector & Son Piano Co. Inc., The, New York, N. Y. Grand and upright pianos, player and electrically-operated pianos. 167,755; May 8; Serial No. 170,602; published Feb. 6, 1923.
Spitan Battery Fluid Corporation, Tuckahoe and New York, N. Y. Fluid for use in electric storage batteries. 167,837; May 8; Serial No. 169,608; published Feb. 13, 1923.

Sportsman's Digest. (See Rosenthal, Edward S.)
Spurgeon, Mathias O., and also doing business as Wineberg Pure Beverage Company, Centralia, Wash. Fruit beverage sold as a soft drink and sirups for preparation of same. 167,672; May 8; Serial No. 172,909; published Feb. 20, 1923.
Standard Development Company. (See Standard Oil Company (Incorporated in New Jersey), assignor.)
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., assignor to Standard Development Company, Wilmington, Del. Permanent foam for protection and preventing evaporation of volatile liquids. 167,852; May 8; Serial No. 164,201; published Jan. 2, 1923.
Standard Oil Company of New York, New York, N. Y. Lubricating grease. 167,800; May 8; Serial No. 162,517; published Feb. 13, 1923.
Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. Garden seeds. 167,982; May 8.
Staynew Filter Corporation, Rochester, N. Y. Air filters. 167,664; May 8; Serial No. 169,690; published Feb. 20, 1923.
Sterling Products Corporation, St. Louis, Mo. Camp-fire stakes for supporting cooking and other utensils. 167,846; May 8; Serial No. 165,040; published Feb. 1923.
Stockton Commission Co., Inc., New York, N. Y. Fabric belting. 167,787; May 8; Serial No. 168,324; published Feb. 6, 1923.
Stomatol Company of America, The, Highland Park, Ill. Liquid shaving soaps. 167,947; May 8. Serial No. 169,878; published Jan. 30, 1923.
Straus-Frank Company, San Antonio, Tex. Top re-coverings and seat covers for vehicles. 167,983; May 8.
Stuart, Fred W., Beverly, Mass. Shoe lasts. 167,854; May 8; Serial No. 163,059; published Jan. 30, 1923.
Sturges Company, The, Meridian, Miss. Feed for oxen. 167,888; May 8; Serial No. 168,076; published Feb. 6, 1923.
Sturges Company, The, Meridian, Miss. Horse, mule, cow, cattle, and poultry feeds. 167,889; May 8; Serial No. 168,077; published Feb. 6, 1923.
Suchywerke, A. G., Vienna, Austria. Pharmaceutical preparations for diseases of the blood and skin. 167,723; May 8; Serial No. 151,235; published Jan. 3, 1923.
Sun Company (now by change of name Sun Oil Company), Philadelphia, Pa. Lubricating oils. 168,007; May 8.
Sun Maid Raisin Growers, Fresno, Calif. Candy and candy fillers. 167,816; May 8; Serial No. 163,706; published Feb. 20, 1923.
Swift and Company, Chicago, Ill. Lard substitutes. 167,712; May 8; Serial No. 160,637; published Feb. 27, 1923.
Tab-Co Company, Washington, D. C. Tablets for headaches, colds, and grippe. 167,843; May 8; Serial No. 169,190; published Feb. 13, 1923.
Taylor, Cecil C., Chicago, Ill. Extensible cuff buttons. 167,705; May 8; Serial No. 160,645; published Feb. 20, 1923.
Tedford, R. A., & Co., Wenatchee, Wash. Fresh apples. 167,662; May 8; Serial No. 168,809; published Feb. 13, 1923.
Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum jelly and petrolatum. 167,950; May 8.
Textile Manufacturing Co., Evansville, Ind. Ladies' union suits, vests, and pants. 167,831; May 8; Serial No. 169,937; published Feb. 13, 1923.
Textileather Company, New York, N. Y. Substitute leather. 167,883; May 8; Serial No. 165,773; published Jan. 2, 1923.
Toilet Products "A" Company, New York, N. Y. Bay rum. 167,917; May 8; Serial No. 169,230; published Jan. 30, 1923.
Tropico Potteries, Inc., Glendale, Calif. Sewer pipes and tile, except metal and porcelain. 167,910; May 8; Serial No. 169,097; published Jan. 30, 1923.
"Turmac" Turkish-Macedonian Tobacco Co., Arnhem, Netherlands. Smoking and chewing tobacco, cigars, cigarettes, and snuff. 167,856; May 8; Serial No. 159,226; published June 27, 1922.
Turner, F. & H., Limited, Wallington, England, and Helmond, Netherlands. Cocoa and chocolate. 168,009; May 8.
Tyree, Josiah S., Washington, D. C. Medicinal powders for internal use. 167,819; May 8; Serial No. 161,460; published Feb. 13, 1923.
Udell Works, The, Indianapolis, Ind. Ironing boards and stands and drying racks. 167,945; May 8; Serial No. 169,610; published Feb. 13, 1923.
Udell Works, The, Indianapolis, Ind. Talking-machine-record cabinets, talking-machine cabinets, radio and player-piano-roll cabinets. 167,781; May 8; Serial No. 171,110; published Jan. 30, 1923.
Underwood Typewriter Company, New York, N. Y. Typewriting machines and typewriting-machine parts. 167,706; May 8; Serial No. 157,642; published Feb. 20, 1923.
Union Fork and Hoe Company, The, Columbus, Ohio. Cultivators. 167,964; May 8.
Union Petroleum Company, Philadelphia, Pa. Oils for heating purposes. 167,767; May 8; Serial No. 173,453; published Feb. 13, 1923.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall plaster, gauging plaster. 167,733; May 8; Serial No. 159,633; published Jan. 30, 1923.
United States Products Corporation, San Francisco, Calif. Canned fruits and vegetables and dried fruit. 167,847; May 8; Serial No. 164,978; published Feb. 20, 1923.
Vales, Alberto, Company, New Orleans, La. Soap. 167,644; May 8; Serial No. 168,591; published Jan. 2, 1923.
Van Camp Sea Food Company, Los Angeles, Calif. Canned fish. 167,951; May 8.
Van Goodwin, J., doing business as J. V. Goodwin & Co., Charlotte, N. C. Liniment for rheumatism, influenza, coughs, colds, etc. 167,834; May 8; Serial No. 169,634; published Feb. 20, 1923.
Vanity Fair Silk Mills, Reading, Pa. Petticoats and ladies' and misses' underwear. 168,008; May 8.
Vapo Products Company, Inc., Sandpoint, Idaho. Rug and carpet cleaning compound and hand cleanser. 167,900; May 8; Serial No. 169,145; published Jan. 30, 1923.
Vermi-Tox Products Co., Holland, Mich. Insecticide. 167,866; May 8; Serial No. 169,104; published Feb. 20, 1923.
Vesuvius Drug Co., Newark, N. J. Preparation for the treatment of rheumatism. 168,024; May 8.
Victor-American Fuel Company, Portland, Me., and Denver, Colo. Coal. 167,957; May 8.
Virden Packing Company, Oakland, Calif. Canned fruits. 167,993; May 8.
Wallace & Co., Brooklyn, N. Y. Chocolates and candies. 168,021; May 8.
Walnut Growers Spray Manufacturing Company, Vernon, Calif. Charcoal to be used in connection with stock and poultry feed. 167,690; May 8; Serial No. 159,825; published Feb. 6, 1923.
Wampole, Henry K., and Company Incorporated. Laxatives. 167,735; May 8; Serial No. 168,659; published Jan. 2, 1923.
Warren Featherbone Company, The, Three Oaks, Mich. Bust forms and extenders, bustles, brassières, etc. 167,996; May 8.
Waterbury Clock Company. (See Ingersoll, Robt. H., & Bro., assignors.)
Wayborn, James A., Brooklyn, N. Y. Prunes. 167,977; May 8.
Webber, Abram, Halifax, Nova Scotia, Canada. Nasal lotion. 167,838; May 8; Serial No. 169,611; published Feb. 13, 1923.
Wedler Shuford Co., St. Louis, Mo. Windshield shade. 167,677; May 8; Serial No. 142,367; published Feb. 6, 1923.
West Disinfecting Company, New York, N. Y. Insecticides. 167,736; May 8; Serial No. 168,698; published Jan. 2, 1923.
Western Wholesale Drug Co., Los Angeles, Calif. Salve for external use in the treatment earache, eczema, etc., and face cream. 167,669; May 8; Serial No. 171,971; published Feb. 20, 1923.
Westfield River Paper Company, New York, N. Y. Wrapping and transparent papers. 168,032; May 8.
Wheeler, W. B., Corporation (now by change of name The Flexideal Company, Inc.), New York, N. Y. Matrix or dry mat used in stereotyping and electroplating. 167,882; May 8; Serial No. 165,840; published Feb. 6, 1923.
Wheeler, W. B., Corporation (now by change of name The Flexideal Company, Inc.), New York, N. Y. Matrix or dry mat used in stereotyping and electroplating. 167,935; May 8; Serial No. 172,309; published Feb. 20, 1923.
Wheeling Metal & Manufacturing Co., Wheeling and Moundsville, W. Va. Flat steel sheets for manufacturing skylight frames, roll roofing, etc. 167,971; May 8.
Wile, E. J., & Co., New York, N. Y. Coats and suits. 168,003; May 8.
Williams and Wagner, Beloit, Wis. Shoulder or body brace. 168,029; May 8.
Williams Company, The, London, Ohio. Metal wool for cleansing, polishing, and scouring. 167,651; May 8; Serial No. 168,283; published Dec. 26, 1922.
Williams, J. B., Company, The, Glastonbury, Conn. Preparation for the hair and beard. 167,906; May 8; Serial No. 168,952; published Jan. 30, 1923.
Willis, Norman L., New York, N. Y. Preparation for washing clothes and a household cleaner for washing woodwork, etc. 167,920; May 8; Serial No. 169,341; published Jan. 2, 1923.
Wineberg Pure Beverage Company. (See Spurgeon, Mathias O.)
Wolff, A. H., Gas Radiator Co., The, New York, N. Y. Gas heaters. 167,728; May 8; Serial No. 154,394; published Jan. 30, 1923.
Workrite Manufacturing Co., The, Cleveland, Ohio. Radio parts and appliances. 168,027; May 8.
Yancey, Darcey C., Wilson, N. C. Preparation for coughs, colds, croup, sore throat, etc. 167,726; May 8; Serial No. 153,531; published Jan. 30, 1923.
Zip Manufacturing Co., Denver, Colo. Compound for fitting in bearings. 167,884; May 8; Serial No. 167,373; published Jan. 30, 1923.
Zip Manufacturing Co., Denver, Colo. Compound for honing lawn mowers and the like. 167,885; May 8; Serial No. 167,374; published Jan. 30, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Dairylea Evaporated Milk. For Evaporated Milk. 25,906; May 8.
Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Dairylea Condensed Milk. For Condensed Milk. 25,907; May 8.
Fegenbush & Mellen, Tampa, Fla. Snookum Brand Fruits and Vegetables. For Fruits and Vegetables. 25,908; May 8.
Flostik Company, Waltham, Mass. Flostik Minute-Dry Golf Ball Renewer. For Paint. 25,909; May 8.
General Baking Company, New York, N. Y. True Bread. For Wrapper for Loaves of Bread. 25,910; May 8.
Hill, Robert, doing business as Mittme Manufacturing Company, Buffalo, N. Y. Mittme. For Nonalcoholic Maltless Beverages and Sirups for Preparing the Same. 25,911; May 8.
Krank, Alfred J., St. Paul, Minn. Frank's Fix-A-Gloss. For Hair Fixative and Dandruff Remedy. 25,912; May 8.
Krank, Alfred J., St. Paul, Minn. Krank's Lemon Facial Pack. For Skin Treatment and Beautifier. 25,913; May 8.
Krueger-Tobin Co. Inc., New York, N. Y. Kreeper. For Infants' Hosiery. 25,914; May 8.
Labrecque Brothers, doing business as Mt. Tom Bakery, Willimansett, Mass. Mt. Tom. For Bread. 25,915; May 8.
Lustershine Mfg. Co. (See Slavin, Isadore.)
Mittme Manufacturing Company. (See Hill, Robert.)
Mt. Tom Bakery. (See Labrecque Brothers.)
Nafziger Baking Company, Kansas City, Mo. Nafziger Fluffy-Loaf. For Bread. 25,916; May 8.
National Carbon Company, Inc., New York, N. Y. Eveready Radio "A" Battery. For Electric Batteries. 25,917; May 8.
National Carbon Company, Inc., New York, N. Y. Columbia Gray Label. For Electric Batteries. 25,918; May 8.
Payne, C. A., Arkadelphia, Ark. Sunshine Polish. For Preparation for Cleaning and Polishing Automobiles. 25,919; May 8.
Scott Paper Company, Chester, Pa. Scot Tissue. For Toilet Paper. 25,920; May 8.
Slavin, Isadore, doing business as Lustershine Mfg. Co., Brooklyn, N. Y. Lustershine Black Gloss. For Containers for Black Gloss. 25,921; May 8.
Todd, E. M., Co., Richmond, Va. Todd's Old Virginia Hams. For Hams. 25,922; May 8.
Virden Packing Company, San Francisco, Calif. Camp Fire. For Smoked Meats. 25,923; May 8.
Wise, W. E., Williamsport, Pa. Anodyne Emulsion. For Emulsion. 25,924; May 8.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, Inc., The, New York, N. Y. Next To Myself I Like 'B. V. D.' Best. For Athletic Underwear. 6,688; May 8.
B. V. D. Company, Inc., The, New York, N. Y. They know why they prefer "B. V. D." For Athletic Underwear. 6,689; May 8.
Eline's Incorporated, Milwaukee, Wis. Eat Eline's Milk Chocolate Bars. For Chocolate. 6,690; May 8.
Franklin Knitting Mills, Inc., New York, N. Y. Fashion-knit Turtle Ties. For Knitted Neckties. 6,691; May 8.
Grier-Sutherland Co., Detroit, Mich. Power. For Storage Batteries. 6,692; May 8.
Hills Bros., San Francisco, Calif. First in Perfection. For Coffee. 6,693; May 8.
Hills Bros., San Francisco, Calif. First-try. For Coffee. 6,694; May 8.
Hills Bros., San Francisco, Calif. First in Quality. For Coffee. 6,695; May 8.
Hills Bros., San Francisco, Calif. First in Freshness. For Coffee. 6,696; May 8.
Hills Bros., San Francisco, Calif. First in flavor. For Coffee. 6,697; May 8.
Hills Bros., San Francisco, Calif. First in vacuum. For Coffee. 6,698; May 8.
Hills Bros., San Francisco, Calif. First choice. For Coffee. 6,699; May 8.
Kirk, James S., & Company, Chicago, Ill. American Family. For Soap. 6,700; May 8.
Nesmoht Sales Company, The. (See Thomsen, John H.)
Percy, Carl, Inc., New York, N. Y. Blank's Fine Chocolates. For Chocolates. 6,701; May 8.
Thomsen, John H., doing business as The Nesmoht Sales Company, Omaha, Nebr. The Stork Model Nesmoht Portable Obstetrical Table. For Nesmoht Portable Obstetrical Table. 6,702; May 8.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

Abraham, Edward, doing business as Abraham & Co., New York, N. Y. Buckles and belt links for personal wear. 176,589; May 8.
Alaga & Forencich Co., Watsonville, Calif. Fresh apples. 174,422; May 8.
Alberts, Jacob L., New York, N. Y. Corsets. 165,517; May 8.
Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices. 176,438; May 8.
Alpina Cheese Co., Burgdorf, Switzerland. Swiss cheese. 170,111–12; May 8.
Alpina Cheese Co., Burgdorf, Switzerland. Swiss cheese. 170,114; May 8.
American Cone and Pretzel Company, doing business as Continental Packing Corporation, Philadelphia, Pa. Canned peaches, canned Lima beans, beans, tomatoes, and sweet potatoes. 171,400; May 8.
American Copper Products Corporation, Elizabeth Port, N. J. Wire composed of copper specially treated. 160,686; May 8.
American Crayon Company, The, Sandusky, Ohio. Crayons and pencils. 177,347; May 8.
American Hard Rubber Company, Hempstead and New York, N. Y. Dials made of hard rubber for radio apparatus. 175,694; May 8.
American Hard Rubber Company, Hempstead and New York, N. Y. Aerial insulators and radio panels. 176,778; May 8.
American Hominy Company, Chicago, Ill. Self-rising flour. 173,391; May 8.
American Pickle & Canning Company, Hattiesburg, Miss. Pickles. 172,717; May 8.
American Pin Company, The, Waterbury, Conn. Safety pins. 177,061; May 8.
American Webbing Company, Providence, R. I. Braid for use in making rugs. 166,703; May 8.
Anderson, Arthur A., doing business as Arthur Anderson Fish Co., Astoria, Oreg. Canned salmon. 172,822; May 8.
Ansted & Burk Co., The, Springfield, Ohio. Poultry feed. 171,783; May 8.
Apple Gum Company, Inc., New York, N. Y. Chewing gum. 173,161; May 8.
Arlington Chemical Company, The, Yonkers, N. Y. Proteins, pollens, urease, etc. 173,587; May 8.
Ashley, Frank R., Denver, Colo. Awnings, awning frames, covers, and parts thereof. 173,068; May 8.
Associated Radium Chemists, Inc., New York, N. Y. Tooth paste, wash, and dentifrice. 166,925; May 8.
Atex Mills. (See Tully, Michael P.)
Auto Products Mfg. Co. Inc., Buffalo, N. Y. Auto products. 158,744; May 8.
Avalon Knitwear Company, Utica, N. Y. Bathing suits. 168,570; May 8.
Babcock & Shannon Co., Albany, N. Y. Collars, neckties, suspenders, etc. 168,869; May 8.
Babcock & Shannon Co., Albany, N. Y. Pants, jackets, and overalls, coats, etc. 168,870; May 8.
Ballance, Herbert E., doing business as Ballance and Company, Greensboro, N. C. Candy kisses. 170,265; May 8.
Ballard & Ballard Co., Incorporated, Louisville, Ky. Wheat flour—namely, self-rising flour. 172,719; May 8.
Bamberger Reinthal Co., The, Cleveland, Ohio. Knitted caps. 151,864; May 8.
Bastian-Morley Co., Laporte, Ind. Gas water heaters. 173,950; May 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Battle Creek Food Company, The, Battle Creek, Mich. Breakfast cereals. 172,575–6; May 8.
Baumann, Carl A., doing business as Lake Mills Milk Company, Jefferson, Wis. Canned evaporated milk. 155,662–3; May 8.
Bechtol, Archie H., doing business as Southern Confection Co., Memphis, Tenn. Confection in the nature of candies. 170,617; May 8.
Becker, Dr., Medicine Co., New York, N. Y. Insecticide ointment and shampoo. 174,382; May 8.
Bentley, Henry G., doing business as H. G. Bentley, Dallas, Tex. Arch supporters for the human foot. 176,108; May 8.
Berlin & Jones Company, Inc., New York, N. Y. Writing paper and envelopes. 176,783; May 8.
Bernstein, Louis, doing business as Princess Dress House, New York, N. Y. Ladies' dresses of silk, cotton, etc. 169,235; May 8.
Blue Hill Candy Company. (See Catsigianis, Otto P.)
Bockstege Furniture Co., The, Evansville, Ind. Dining-room furniture. 173,347; May 8.
Bolinger, W. A., doing business as Bolinger Orchards, Methow, Wash. Fresh apples. 171,896; May 8.
Bowen, Frank G., doing business as Bowen Mfg. Co., Kansas City, Mo. Key cases. 157,651; May 8.
Brainard, Pearl H., doing business as Macomb Manufacturing Company, Macomb, Ill. Iceless and fireless receptacles for retaining heat and cold. 176,061; May 8.
Brewer & Company, Inc., Worcester, Mass. Lime. 175,129; May 8.
Brogan, Byard F., Philadelphia, Pa. Finger rings. 176,714–15; May 8.
Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 176,535; May 8.
Bunnie Hat Co. Inc., Reading, Pa. Hats for men and boys. 159,552; May 8.
Bunte Brothers, Chicago, Ill. Candy. 168,294; May 8.
Bunte Brothers, Chicago, Ill. Candy. 168,446; May 8.
Burnes, Frank, doing business as Burnes Remedy Company, St. Louis, Mo. Liquid preparation for the treatment of rheumatism. 174,426; May 2.
Calhoun, Robbins & Co., New York, N. Y. Buckles, thimbles, bracelets, etc. 172,208; May 8.
California Almond Growers Exchange, San Francisco, Calif. Almonds. 157,024–5; May 8.
California Products Company. (See Lunsford, Reuben A.)
California Underwear Mills. (See California Underwear and Hosiery Mills.)
California Underwear and Hosiery Mills, also doing business as California Underwear Mills, Los Angeles, Calif. Ladies' knit underwear. 169,618; May 8.
Capitol Coffee Company. (See Danna, Frank.)
Carnotite Gland Extract Company. (See McMichael, Americus O.)
Castle Company, Lyons, N. Y. Canned sauerkraut. 170,273; May 3.
Catsigianis, Otto P., doing business as Blue Hill Candy Company, St. Louis, Mo. Chocolate-coated nuts and candies. 172,257; May 8.
"Cérès" Docks, Minoterie, Semoulerie Pates Alimentaires, Nice, France. Semolinas, rices, alimentary pastes, and biscuits. 153,385; May 8.
Champion Appliance Manufacturing Company, Inc., Yonkers, N. Y. Portable electric motors. 170,926; May 8.
Chemische Fabrik "Norgine" Dr. Victor Stein, Aussig, Czechoslovakia. Pharmaceutical preparations to be administered into animals and human beings for treatment of tabes, paralysis, etc. 163,139; May 8.
Cheney Brothers, South Manchester, Conn. Silk fabrics in the piece. 177,035; May 8.
Chicago Belting Company, Chicago, Ill. Leather belting. 174,889; May 8.
Chicago Mercantile Co., Chicago, Ill. Hat linings for ladies' hats. 154,679; May 8.
Cincinnati Cloak & Suit Company, The, Cincinnati, Ohio. Ladies' and misses' suits, coats, dresses, furs, etc. 169,948; May 8.
Close, George, Co., The, Cambridge, Mass. Candy. 170,564; May 8.
Coleman and Company Limited, Norwich, England. Food preparations containing extract of meat and other ingredients. 140,919; May 8.
Colony Hosiery Mills, New York, N. Y. Hosiery. 153,923; May 8.
Consolidated Rendering Co., Boston, Mass. Oleo, oleo oil, and shortening. 162,723; May 8.
Continental Packing Corporation. (See American Cone and Pretzel Company.)
Cupples Company Manufactures, St. Louis, Mo. Rubber jar rings. 172,584; May 8.
Dabrasky, Apolinars, New York, N. Y. Insect powder. 166,769; May 8.
Danna, Frank, doing business as Capitol Coffee Company, Baton Rouge, La., Coffee. 172,146; May 8.
Davenport Brothers, Chattanooga, Tenn. Hosiery and underwear. 166,295; May 8.
De Bruyn Limited, London, England. Edible oils. 169,125; May 8.
Decorative Arts League, New York, N. Y. Art objects. 144,853; May 8.
Diebold Safe & Lock Company, Canton, Ohio. Filing, skeleton, fireproof, burglarproof, and manganese safes; vault doors, locks, and safe-deposit boxes. 174,127; May 8.
Doniger & Company Inc., New York, N. Y. Hypodermic syringes. 176,957; May 8.
Doucleff, Dine K., Peoria, Ill. Canned prepared caviar. 172,266; May 8.
Dryol Polish Mfg. Co. (See Ruggles, Harry M.)
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Hand mirrors, picture frames. 170,239; May 8.
Dura Company, The, Toledo, Ohio. Window regulators. 169,803; May 8.
Easton, Gilbert J., Newark, N. J. Vegetable relishes. 172,149; May 8.
Eli Boot Shop Co., The, New Haven, Conn. Boots and shoes. 173,629; May 8.
Elliott, J. S., Coffee Company, Newville, Pa. Coffee. 159,746; May 8.
Ex Pilo Manufacturing Company. (See Wodicska, Luise.)
Farley, Vincent J., doing business as How To Make Money Publishing Co., Long Island City, N. Y. Serial monthly magazine. 174,564; May 8.
Feldbaum & Spiegel, Inc., New York, N. Y. Fur coats, capes, stoles, and fur garments. 169,439; May 8.
Fernandez, Philip, doing business as Standard Export Company, Boston, Mass. Shoe findings. 171,794; May 8.
Field Guy M., High Point, N. C. Powder to be used in the preparation of salad dressing. 171,158; May 8.
Field, Samuel R., doing business as Tom's Cove Salt Sea Oyster Co., Chincoteague Island, Va. Oysters in the canned and natural state. 173,184; May 8.
Fine Products Company, The, Pittsburgh, Pa. Pharmaceutical preparation consisting of alcohol. 173,822; May 8.
Fletcher, Robert, & Son Limited, Stoneclough, Manchester, England. Paper for use in making cigarettes. 173,413–5; May 8.
Flood & Conklin Company, Newark, N. J. Pyroxylin lacquer. 178,173; May 8.
Forst Laboratories, Cincinnati, Ohio. Rubbing and massaging alcohol. 171,073; May 8.
Funke, Edward, doing business as Near East Trading Co., New York, N. Y. Cigarettes. 177,553–4; May 8.
Garhart Dental Specialty Company, Somerville, Mass. Filling for teeth. 176,793; May 8.
Gebhart, Edgar S., doing business as Redfern Medicine Company, Dayton, Ohio. Digestive tonic. 174,518; May 8.
General Baking Company, New York, N. Y. Bread. 160,056; May 8.
General Electric Company, Schenectady, N. Y. Non-metallic gear wheels and gear-wheel blanks. 176,118; May 8.
George, Robert J., doing business as Imperial Peanut & Coffee Company, Wilkes-Barre, Pa. Roasted and salted peanuts. 163,795; May 8.
George, Robert J., doing business as Imperial Peanut & Coffee Company, Wilkes-Barre, Pa. Coffees, candies, chocolates, and chocolate-covered confections. 163,796; May 8.
Gheens, C., Edward, Louisville, Ky. Candy. 169,542; May 8.
Goldberg, Samuel A., Chicago, Ill. Hosiery. 170,375; May 8.
Gold Meadow Creamery, Cleveland, Ohio. Butter, eggs, milk, cream, and cheese. 167,298; May 8.
Goldsmith's P., Sons, Cincinnati, Ohio. Bat bags, baseball caps, bathing caps, college caps, men's sport clothes, ladies' sport clothes, etc. 139,353; May 8.
Goodson, J. F., & Company, doing business as J. F. G. Coffee Co., Morristown, Tenn. Coffee. 170,582; May 8.
Goodyear Tire & Rubber Company, The, Akron, Ohio. House-organ publications. 157,566; May 8.
Gosney, Cyrus W., Oakland, Calif. Pies, cakes, bread, and pastries. 169,757; May 8.
Gottmann, Theodore & Sons, doing business as "Gottmann's," Chicago, Ill. Chocolate candy bar. 170,015; May 8.
Gracenet Co., Inc., The, New York, N. Y. Hair nets. 176,404; May 8.
Greenebaum, Weil & Michels, San Francisco, Calif. Hosiery. 169,590; May 8.
Greig, John, London, England. Apparatus for playing a game of chance. 176,022; May 8.
Griffith-Durney Co., San Francisco, Calif. Canned fruits and vegetables. 170,016; May 8.
Griswoldville M'f'g Co., New York, N. Y. Unmedicated gauze. 175,310; May 8.
Grossman, L. E., Inc., New York, N. Y. Shoes. 171,637; May 8.
Haas Brothers, San Francisco, Calif. Canned fruits and vegetables. 174,694; May 8.
Hadfields Limited, Sheffield, England. Steel in rod, bar, rail, sheet, etc. 175,553; May 8.
Haiku Fruit & Packing Co., Haiku, Maui, Hawaii. Canned pineapple. 169,243; May 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hampshire Paper Company, South Hadley Falls, Mass. Printing and writing paper. 168,305; May 8.
Hardy, Mary M., & Florence H. Baird, South Orange, N. J. Candies. 174,737; May 8.
Harrow-Taylor Butter Co., Kansas City, Mo. Creamery butter. 170,328; May 8.
Hawaiian Pineapple Company Limited, San Francisco, Calif., and Honolulu, Hawaii. Canned pineapple. 147,426; May 8.
Hazeltine, Louis A., Hoboken, N. J. Electrical transformers. 176,677; May 8.
Hazeltine, Louis A., Hoboken, N. J. Electrical condensers. 176,678; May 8.
Headley, F. H., Edgbaston, Birmingham, England. Motor cycles and perambulators, pillory-seat supports, and saddles for motor cycles. 129,890; May 8.
Hercules Powder Company, Wilmington, Del. Compounded oil. 176,829; May 8.
Hercules Powder Company, Wilmington, Del. Pine oil. 176,830–3; May 8.
Hercules Powder Company, Wilmington, Del. Compounded oil. 176,834; May 8.
Hercules Powder Company, Wilmington, Del. Pine oil. 176,835; May 8.
Hiller, Stanley, Inc., San Jose, Calif. Apparatus for revivifying kieselguhr, apparatus for producing charcoal, fish-meal apparatus, and sirup clarifiers. 171,713; May 8.
Hinckley Manufacturing Company, Providence, R. I. Bracelets, finger rings, brooches, bar pins, and buttons. 168,466; May 8.
Hirshfeld, Jacob B., New York, N. Y. Nainsook underwear for men, women, and children. 166,072; May 8.
Hoffman, Elic A., doing business as E. A. Hoffman Candy Co., Los Angeles, Calif. Candy. 168,471; May 8.
Hood River Apple Vinegar Co., also doing business as Mountain Maid Products Company, Hood River, Oreg. Apple vinegar, canned pork and beans, canned soup, canned chile con carne, and canned mincemeat. 147,960; May 8.
Hooper, Wm. E., & Sons Co., Woodberry, Baltimore, Md. Cotton rope, sash cord, seine twines, etc. 168,151; May 8.
Hoover Company, The, North Canton, Ohio. Electric suction sweepers. 175,245; May 8.
How To Make Money Publishing Co. (See Farley, Vincent, J.)
Huessy & Co., Ltd., Safenwil, Switzerland. Cotton piece goods and handkerchiefs. 163,982; May 8.
Huston, T. A., & Co., Portland, Me. Bakery products, specifically cookies and confectionery. 171,696; May 8.
Hutchison Thrift Corporation, New York, N. Y. Canned cherries. 169,059; May 8.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. 174,740; May 8.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. 174,780; May 8.
Imperial Peanut & Coffee Company. (See George, Robert J.)
Independent School District of Newton, Newton, Iowa. High-school newspaper and annual. 173,833; May 8.
Institute For Public Service, New York, N. Y. Periodical publications. 173,707; May 8.
Jean, C. W., Company, Worthington, Ind. Eggs. 112,202; May 8.
J. F. G. Coffee Co. (See Goodson, J. F., & Company.)
Johnson-Appleby Company, Boston, Mass. Canned fruits, flavoring extracts for foods, fruit jams, jellies, and marmalades, etc. 146,440; May 8.
Johnson-Breyding-Johnson, St. Louis, Mo. Printing and writing paper, envelopes. 177,302; May 8.
Jones, Vess, doing business as Whistle Company, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco, etc. 167,245; May 8.
Jones, Vess, doing business as Whistle Company, New York, N. Y. Concentrated sirups for manufacture of nonalcoholic, maltless beverages, etc. 167,247; May 8.
Jordan Marsh Company, Boston, Mass. Albums for talking-machine records. 177,976; May 8.
Kane, Samuel J., doing business as Protect-O-Floor Leather Mat Co., San Francisco, Calif. Leather flexible door mat. 171,926; May 8.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 153,297; May 8.
Kenny, C. D., Company, Baltimore, Md. Coffee. 167,944; May 8.
Killian, W. H., Co., The, Baltimore, Md. Foodstuffs preserved in hermitically-sealed containers. 167,179; May 8.
Kingly Shirt Co., Chicago, Ill. Men's and boys' shirts. 169,363; May 8.
Kirshbaum, R., & Son, Inc., Indianapolis, Ind. Ladies' dresses, coats, and blouses. 169,957; May 8.
Knight, Thomas J., doing business as Knight Drug Co., Plant City, Fla. Sorehead remedy for chickens. 158,875; May 8.
Kortenbach & Rauh, Weyer, Germany. Umbrellas. 162,557; May 8.
La Boyteaux, Clarence E., doing business as C. E. La Boyteaux Company, Los Angeles, Calif. Concrete mixers, saw tables, pumps, hoists, and shovels. 174,966; May 8.
Laird Manufacturing Co., Inc., The., Richmond, Va. Coffee. 171,581; May 8.
Lake Mills Milk Company. (See Baumann, Carl A.)
Lake Odessa Canning Co., Lake Odessa, Mich. Canned vegetables and fruits. 175,796; May 8.
Lamke & Stemme, Inc., New York, N. Y. Surgical rubber goods and druggists' sundries. 173,237; May 8.
Lanchester Shirt Co. Inc., New York, N. Y. Men's and boys' dress shirts. 169,717; May 8.
Landers, Frary & Clark, New Britain, Conn. Electrically-driven vacuum cleaners. 175,799; May 8.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Self-rising flour. 170,772–3; May 8.
Lawrence, Willse M., Brookline, Mass., and Bartow, Fla. Wrenches. 170,721; May 8.
Lazier, J. F., Mfg. Co., St. Louis, Mo. Nonalcoholic, maltless soft drinks. 175,430; May 8.
Leggitt, Francis H., & Company, New York, N. Y. Canned apricots, grapes, plums, peaches, pineapple, etc. 171,275; May 8.
Lehoczky, Helen, Cleveland, Ohio. Confection. 172,481; May 8.
Levy, Irving B., New York, N. Y. Golf balls. 171,503; May 8.
Lifschitz, Charles W., New York, N. Y. Neckbands for men's shirts. 159,400; May 8.
Linsk, Alexander, & Company, assignor to H. J. Maxmin, Philadelphia, Pa. Boys' sailor suits. 159,157; May 8.
Little, Brown & Company, Boston, Mass. Series of books. 173,516; May 8.
Locomobile Company of America, Incorporated, New York, N. Y. Automobiles and constructive parts thereof. 172,002; May 8.
London, William, High Point, N. C. Caps for men, women, and children. 165,753; May 8.
Lunsford, Reuben A., doing business as California Products Company, Los Angeles, Calif. Mayonnaise and Thousand Island salad dressing. 174,087; May 8.
McComas & Goodwin, assignors to Vapor Lubricant Company, Los Angeles, Calif. Fuel intensifier and carbon preventive for internal-combustion engines. 154,374; May 8.
McKenna, Grace P., Washington, D. C. Necklaces, bracelets, brooches, finger rings, vanity cases. 173,606; May 8.
McKnight-Keaton Grocery Co., Cairo, Ill. Canned fruits and vegetables. 177,612; May 8.
McLellan, W. C., Lodi, Calif. Fresh grapes. 168,371; May 8.
McMichael, Americus O., doing business as Carnotite Gland Extract Company, Denver, Colo. Carnotite baths. 173,870; May 8.
Macomb Manufacturing Company. (See Brainard, Pearl H.)
Magnavox Company, The, Oakland, Calif. Electrical sound amplifiers for phonographs. 155,823; May 8.
Mallory Hat Company, The, Danbury, Conn. Hats for men, women, and children. 156,653; May 8.
Marvin, Burdette K., doing business as Marvin Date Company, Riverside, Calif. Dates. 170,688; May 8.
Masuda, Tomekechi, doing business as Nippon Tea Co., Cleveland, Ohio. Tea, coffee, rice, and extracts for seasoning foods. 159,518; May 8.
Maxmin, H. J. (See Linsk, Alexander & Company, assignor.)
Mayer China Company, The, Beaver Falls, Pa. Chinaware. 175,017; May 8.
Melville Shoe Corporation, New York, N. Y. Shoes. 173,575; May 8.
Merrell-Soule Company, Syracuse, N. Y. Whole-milk powder. 174,474; May 8.
Midland Flour Milling Co., The, Kansas City, Mo. Wheat flour. 173,655; May 8.
Miller Brothers, New York, N. Y. Earrings, hatpins, brooches, rings, necklaces, and bracelets. 176,800; May 8.
Miller-McMillen Co., Watertown, S. Dak. Candy bar. 172,235; May 8.
Mitsui Bussan Kaisha, Ltd, Tokyo, Japan. Matches. 156,100–1; May 8.
Monroe, Lederer & Taussig, Philadelphia, Pa. Paints, paint enamels, stains, varnishes. 174,256; May 8.
Montague, W. R., Company, The, La Crosse, Wis. Biscuits, crackers, and Dutch-style cookies. 167,579; May 8.
Morris, Jos. A., & Co., Inc., New York, N. Y. Ladies' and misses' dresses. 170,399; May 8.
Mountain Maid Products Company. (See Hood River Apple Vinegar Co.)
Munning, A. P., & Co., Matawan, N. J. Cloth polishing wheels. 166,190; May 8.
Munning, A. P., & Co., Matawan, N. J. Cloth polishing wheels. 166,193; May 8.
Myers, F. E., & Bro. Co., The, Ashland, Ohio. Pumps. 158,784; May 8.
National Paving Brick Manufacturers Association, Cleveland, Ohio. House organ published monthly. 175,099; May 8.
Near East Trading Co. (See Funke, Edward.)
Nelson Bead Company, New York, N. Y. Beads. 175,151; May 8.

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New England Stationery Company, Boston, Mass. Stationery. 178,454; May 8.
Newhall, H. M., & Co., San Francisco, Calif. Canned fruits and vegetables. 169,771; May 8.
Nippon Tea Co. (See Masuda, Tomekechi.)
North American Mercantile Co. Inc., San Francisco, Calif. Canned fruits, vegetables, and fish, dried fruits, etc. 174,910; May 8.
Nu-Life Medicine Company. (See Spinks & McIlwain.)
Nut Lunch Company. (See Townsend, Glenn.)
Öberg, C. O., & Co:s Aktiebolag, Eskilstuna, Sweden. Files and rasps. 175,514; May 8.
O'Brien, John J., Coggon, Iowa. Pump coupling. 176,757; May 8.
Oklahoma Publishing Company, The, Oklahoma, Okla. Monthly magazine. 175,246; May 8.
Osterberg, Gustav M., doing business as G. M. Osterberg & Sons, New York, N. Y. Elevator-rail oilers. 172,551; May 8.
Pacific Mills, Lawrence and Boston, Mass. Sheetings and shirtings. 158,725; May 8.
Package Paper & Supply Corporation, Springfield, Mass. Wrapping paper, particularly bread wrappers. 177,923; May 8.
Palmer, Herbert R., doing business as T-N-T Spark Plug Co., Cleveland, Ohio. Spark plugs. 176,205; May 8.
Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes and powders. 173,142; May 8.
Parke, Davis & Company, Detroit, Mich. Ointment for eczema and irritations of the skin. 173,903; May 8.
Parker Brothers, Salem, Mass. Card games. 175,210; May 8.
Parker, Chas. V., Co., Harrisburg, Ill. Men's, women's, and children's suits, cloaks, overcoats, hats, caps, shoes, etc. 148,549; May 8.
Parvin, William R., doing business as W. R. Parvin Co., Ogden, Utah. Fresh deciduous fruits and fresh vegetables. 168,372; May 8.
Patchogue-Plymouth Mills Corporation, New York, N. Y. Nets, draperies, and curtains made of cotton. 169,924; May 8.
Patrycki, Thomas, Hawkins, Wis. Lightning arrester. 175,884; May 8.
Peerless Paper Company, The, Dayton, Ohio. Bond paper. 171,653; May 8.
Peter Company, The, Houston, Tex. Eggs, butter, poultry, and pecans. 172,434; May 8.
Platinide Co. Inc., The, Providence, R. I. Platers' bars, sheet metal, metal rods, and ingots. 173,719; May 8.
Posner, Dr. A., Shoes, Inc., New York, N. Y. Hosiery. 149,772; May 8.
Potter-Wrightington, Inc., Boston, Mass. Bran for use in making bakery products. 171,467; May 8.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,237; May 8.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 166,248; May 8.
Prescott & Company, Boston, Mass. Domestic refrigerators. 177,199; May 8.
Price-Booker Manufacturing Company, Waco and Houston, Tex. Pickles and condiments. 174,100; May 8.
Princess Dress House. (See Bernstein, Louis.)
Protect-O-Floor Leather Mat Co. (See Kane, Samuel J.)
R. & R. Manufacturing Company. (See Ruffner, Meyer F.)
R an W Hat Shop, Inc., Norwalk, Conn. Hats. 174,445; May 8.
Ralston Purina Company, St. Louis, Mo. Poultry feed. 173,722; May 8.
Rappaport, Max, Los Angeles, Calif. Hats and caps for men and boys. 171,468; May 8.
Read Hosiery Mills, McMinnville, Tenn. Hosiery. 168,788; May 8.
Real Silk Hosiery Mills, Indianapolis, Ind. Hosiery. 157,535; May 8.
Realsilk Fabrics Corporation, Brooklyn, N. Y. Hosiery and knitted underwear. 170,308; May 8.
Redfern Medicine Company. (See Gebhart, Edgar S.)
Red Star Milling Company, The, Wichita, Kans. Wheat flour. 172,173; May 8.
Reel Products Company, Cedar Rapids, Iowa. Yeast cakes for culinary purposes. 171,104; May 8.
Regulation Paint Co., Louisville, Ky. Paint, varnish, paint enamel, etc. 176,044; May 8.
Riesman, Philip, doing business as Royal Electric Company, Chelsea, Mass. Electric bulbs and lamps. 174,924; May 8.
Rodriguez, Salvador, New York, N. Y. Cigars. 178,360; May 8.
Rossi, Peter, & Sons, Inc., Braidwood, Ill. Macaroni. 170,730; May 8.
Royal Electric Company. (See Riesman, Philip.)
Royal Seal Food Products Co., Chicago, Ill. Dates, salted nuts, and preserved figs. 170,789; May 8.
Ruffner, Meyer F., doing business as R. & R. Manufacturing Company, Okmulgee, Okla. Cooked potato resembling potato chips. 172,442; May 8.
Ruggles, Harry M., doing business as Dryol Polish Mfg. Co., Philadelphia, Pa. Cleaning and polishing oil for varnished, painted, and lacquered surfaces. 165,159; May 8.
Sahlin, Max, Denver, Colo. Mechanical devices for straightening crooked toes. 176,134; May 8.
Santa Paula Citrus Fruit Association, Santa Paula, Calif. Fresh lemons. 163,703; May 8.
Schoettker, J. H. C., Sons, Springfield, Ill. Cigars. 174,639; May 8.
Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Sound boxes for phonographs. 140,073; May 8.
Sears, Roebuck and Co., Chicago, Ill. Safety pins. 175,215; May 8.
Seymour Packing Company, The, Topeka, Kans. Dressed poultry. 174,925; May 8.
Shirt Snubers Company, The, Toledo, Ohio. Devices for preventing shirts from creeping up. 176,577; May 8.
Shugart, Phila M., Washington, D. C. Imitation-pearl necklaces. 176,704; May 8.
Smith, George W., Co. (See Treat, Clifford W.)
Smith, Joshua G., St. Paul, Minn. Chocolates wrapped in colored metal foil. 141,193; May 8.
Snowolene Holding Company, Los Angeles, Calif. Gasoline, kerosene, and motor fuel oils. 174,803; May 8.
Societe en Commandite Maurice Frings & Cie, Paris, France. Cotton thread. 177,573; May 8.
Southern Confection Co. (See Bechtol, Archie H.)
Spinks & McIlwain, also doing business as Nu-Life Medicine Company, Selma, Ala. Liver, kidney, and stomach medicine. 168,736; May 8.
Stafford, George A., doing business as G. A. Stafford & Co., New York, N. Y. Woven cotton fabrics in the piece. 176,103; May 8.
Standard Export Company. (See Fernandez, Philip.)
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 177,879; May 8.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 177,881; May 8.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 178,147; May 8.
Standard Purveyors, Inc., New York, N. Y. Canned peas, tomato purée, apples, etc. 174,344; May 8.
Standard Ring Co., Inc., Boston, Mass. Finger rings. 167,540; May 8.
Stapleton, John T., and John T. Stapleton, Shoals, Ind. Medicine for the treatment of diphtheria and membranous croup. 173,905; May 8.
Star Motors Incorporated, New York, N. Y. Automobile and constructive parts thereof. 171,340; May 8.
Stearns & Foster Company, The, Lockland, Ohio. Mattresses. 160,094; May 8.
Stephens Motor Car Company, Incorporated, Moline, Ill. Automobiles. 175,571; May 8.
Stern, Max, Charleroi, Pa. Cigars. 169,516; May 8.
Stevens, Estella, doing business as Madame Stevens, Orlando, Fla. Hair grower. 165,642; May 8.
Suliman, Ibish, Lynn, Mass. Soaps. 174,944; May 8.
Sun-Bit Auto Polish Co., Somerville, Mass. Polish for automobiles, furniture, etc. 177,926; May 8.
Sur-Duz Products Company, Kansas City, Mo. Automobile auxiliary gasoline tank. 167,957; May 8.
Sweet Dominick, doing business as The Sweet Manufacturing Company, Pittsburgh, Pa. Medicines and toilet preparations. 164,776; May 8.
Tamal Packing Co., San Francisco, Calif. Canned tomatoes. 174,599; May 8.
Taylor, J. L., Co., The, Los Angeles, Calif. Fresh citrous and deciduous fruits, dried or dehydrated fruits and vegetables, etc. 164,977; May 8.
Tetralin Gesellschaft mit beschränkter Haftung, Berlin, Germany. Rubber mats, waterproofed fabrics, etc. 142,044; May 8.
Tioga Mill & Elevator Co., Waverly, N. Y. Poultry feed. 173,687; May 8.
Titze and Fortkamp Company, South Milwaukee, Wis. Fruit preserves, jellies, and other canned fruit products. 172,620; May 8.
T-N-T Spark Plug Co. (See Palmer, Herbert R.)
Toch Brothers, Incorporated, New York, N. Y. Liquid paint. 177,251; May 8.
Toewear Hosiery Incorporated, Norristown, Pa. Hosiery. 148,774; May 8.
Tom's Cove Salt Sea Oyster Co. (See Field, Samuel B.)
Townsend, Glenn, doing business as Nut Lunch Company, Portland, Oreg. Peanut butter. 167,855; May 8.
Traffic Control, Incorporated, Milwaukee, Wis. Traffic lights. 175,417; May 8.
Travers, John F., Shoe Co., Boston, Mass. Shoes. 173,734; May 8.
Treat, Clifford W., doing business as George W. Smith Co., Bennington, Vt. Maple sirup. 172,021; May 8.
Try-Me Radiator Cement Company, Denver, Colo. Radiator cement. 173,866; May 8.
Tully, Michael P., doing business as Atex Mills, New York, N. Y. Nainsook athletic underwear. 166,542; May 8.
Ulmann, Bernhard Co. Inc., New York, N. Y. Yarns. 178,149–50; May 8.
United Confectioners Supply Co., New York, N. Y. Flavors for food, marshmallow topping, etc. 158,906; May 8.

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United States Bronze Powder Works, Inc., New York, N. Y. Bronze powder and bronzing liquid. 176,313; May 8.
United States Lens Company, The, Wheeling, W. Va. Automobile headlight cover glasses. 173,059; May 8.
U. S. Leather Goods Company, Chicago, Ill. Pocketbooks, bill folds, cardcases, etc. 173,455; May 8.
Vander Koogh, Charles, Plainfield, N. J. Mayonnaise dressing. 145,403; May 8.
Vanity Fair Silk Mills, Reading Pa. Ladies' silk underwear. 147,649; May 8.
Vapor Lubricant Company. (See McComas & Goodwin, assignors.)
Velvet Piston Ring Co., Detroit, Mich. Piston rings, belting, hose, machinery packing, and nonmetallic tires. 171,824; May 8.
Vero Indian River Producers Association, Vero, Fla. Fresh citrous fruits. 171,478; May 8.
Virden Packing Company, San Francisco, Calif. Smoked meats. 142,184; May 8.
Vitrefrax Company Inc., The, Los Angeles, Calif. Refractory lining, mastic fire walls, cements, etc. 170,414–15; May 8.
Vitrefrax Company Inc., The, Los Angeles, Calif. Refractory lining, bricks, cements, and furnace bottom grains, etc. 170,417; May 8.
Wabasha Roller Mill Company, Wabasha, Minn. Wheat flour. 172,918; May 8.
Waldo, E. M. and F., New York, N. Y. Paints. 168,503; May 8.
Walla Walla Valley Prune Growers Co-Operative Association, Freewater, Oreg. Fresh boxed Italian prunes. 168,697; May 8.
Ward Baking Company, New York, N. Y. Bread. 173,456; May 8.
Warner Brothers Company, The, Bridgeport, Conn. Women's fitted undergarments. 174,046; May 8.
Waupun Canning Co., The, Waupun, Wis. Canned vegetables. 166,424; May 8.
Weisbecker, Charles, New York, N. Y. Salad dressing. 174,349; May 8.
Westberg, Gustave E., Los Angeles, Calif. Antitheft locks for motor-vehicle wheels. 177,155; May 8.
Western Bottle Manufacturing Company, also doing business as The Western Company. Handkerchiefs and hair nets. 176,136; May 8.
Westphal, Ernest J. H., Brooklyn, N. Y. Product consisting of an edible container with ice cream or an analogous filler. 171,676; May 8.
Wetterau, G. H., & Sons Grocer Company, St. Louis, Mo. Fruit preserves, jams, jelly, apple butter, sweet and sour pickles, etc. 170,736; May 8.
Whip-Lite Products Co., New York, N. Y. Edible preparation suitable for mixture with milk and cream in beating up these products into a frothy condition. 160,840; May 8.
Whistle Company. (See Jones, Vess.)
White, Joseph J., Inc., New Lisbon, N. J. Fresh blueberries. 172,457; May 8.
Whitman & Keith Co., Brockton, Mass. Boots and shoes. 171,974; May 8.
Wilson Brothers, Chicago, Ill. Men's dress and negligee shirts, pyjamas, and underwear of textile fabric. 170,320; May 8.
Wilson, M. D., Dunning S., French Lick, Ind. Bread. 165,050; May 8.
Wodiczka, Luise, doing business as Ex Plio Manufacturing Company, New York, N. Y. Preparations for the treatment of piles. 173,616; May 8.
Wonder Medicine Company, Atlanta, Ga. Medicinal tonic. 172,313; May 8.
Woolworth, F. W., Co., Watertown and New York, N. Y. Tape and braid of all kinds. 177,807; May 8.
Yale Cloak Co. Inc., New York, N. Y. Children's and ladies' coats and capes. 166,426; May 8.
York Pretzel Bakery, York, N. Y. Pretzels. 172,700–1; May 8.
Young Hat Company, The, Norwalk, Conn. Men's hats and caps. 175,375; May 8.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alcohol for external use, Bathing. Smith, Kline & French Co. 167,737; May 8; Serial No. 168,735; published Jan. 2, 1923.
Alimentary paste products. Ronzoni Macaroni Company. 167,978; May 8.
Ammonia. C. M. Kimball Company. 167,934; May 8; Serial No. 172,000; published Feb. 20, 1923.
Ant powder. M. F. Henning. 168,020; May 8.
Antiseptic composition for vaginal douching. Dr. Pollack Health Products Corp. 167,652; May 8; Serial No. 168,004; published Jan. 9, 1923.
Apples, Fresh. R. A. Tedford & Co. 167,662; May 8; Serial No. 168,809; published Feb. 13, 1923.
Asphalt, asphalt cement, road asphalt, and paving-block filler. Barber Asphalt Paving Company. 167,872; May 8; Serial No. 168,444; published Feb. 20, 1923.
Automobile radiator shutter. Allen Auto Specialty Co. 167,986; May 8.
Automobile robe container. Rolzup Auto-Robe Corporation. 167,763; May 8; Serial No. 170,157; published Feb. 6, 1923.
Automobile tops, windshields, fenders, etc. Miller Auto Accessories Co. 167,958; May 8.
Batteries, Fluid for use in electric storage. Spitan Battery Fluid Corporation. 167,837; May 8; Serial No. 169,608; published Feb. 13, 1923.
Battery switches, vacuum-tube sockets, lighting switches, etc. Heinemann Electric Company. 167,865; May 8; Serial No. 169,208; published Feb. 6, 1923.
Bay rum. Toilet Products "A" Company. 167,917; May 8; Serial No. 169,230; published Jan. 30, 1923.
Bay rum, witch-hazel, alcohol body rub, etc. Minneapolis Brewing Company. 167,864; May 8; Serial No. 169,315; published Feb. 20, 1923.
Bearings, Compound for fitting in. Zip Manufacturing Co. 167,884; May 8; Serial No. 167,373; published Jan. 30, 1923.
Bedspreads, tablecloths, table covers, napkins, etc. American Textile Art Printing & Dyeing Company. 167,689; May 8; Serial No. 159,134; published Feb. 13, 1923.
Belting, Fabric. Stockton Commission Co. 167,787; May 8; Serial No. 166,324; published Feb. 6, 1923.
Belting, hose, packing, etc., Power. Power Supply Company. 167,719; May 8; Serial No. 145,647; published Jan. 9, 1923.
Belts, Fan. Dayton Rubber Manufacturing Co. 167,891; May 8; Serial No. 168,104; published Jan. 30, 1923.
Beverage, sold as a soft drink and sirups for making same, Fruit. Queen City Bottling Company. 167,778; May 8; Serial No. 171,955; published Feb. 13, 1923.
Beverage sold as a soft drink and sirups used in the preparation of same, Fruit. Lyons Bros. Co. 167,668; May 8; Serial No. 172,752; published Feb. 20, 1923.
Beverage sold as a soft drink and sirups used in preparation of same, Fruit. M. O. Spurgeon. 167,672; May 8; Serial No. 172,909; published Feb. 20, 1923.
Biscuits and crackers. National Biscuit Company. 167,960; May 8.
Bleaches for hats, shoes, and fabrics, tooth and skin bleaches, etc. J. H. Kap. 167,876; May 8; Serial No. 167,178; published Feb. 6, 1923.
Bloomers, brassières, step-ins, etc., Ladies'. F. Rosenberg. 167,902; May 8.
Boiler compounds. Riodela Chemical Co. 167,824; May 8; Serial No. 170,216; published Feb. 13, 1923.
Books, Series of. P. F. Collier & Son Company. 167,961–2; May 8.
Bootees, bibs, bonnets, coats, etc., Infants'. Melcher, Paradise, & Landau. 167,795; May 8; Serial No. 164,650; published Feb. 6, 1923.
Bottle caps. Bead Chain Manufacturing Company. 167,860; May 8; Serial No. 153,497; published Dec. 19, 1922.
Bottles, Crown seals, and closures for. Armstrong Cork Company. 167,850; May 8; Serial No. 164,293; published Feb. 20, 1923.
Boxes, Security, office, bond, etc., Tin. Merriam Manufacturing Company. 168,004; May 8.
Brake linings. Allbestos Corporation. 167,890; May 8; Serial No. 168,092; published Feb. 6, 1923.
Brassières. B. Rubenstein. 167,802; May 8; Serial No. 161,146; published Feb. 6, 1923.
Brushes. E. Clinton & Co. 167,952; May 8.
Burners. Elektrizitatswerk Lonza. 167,880; May 8; Serial No. 166,777; published Feb. 6, 1923.
Bust forms and extenders, busties, brassières, etc. Warren Featherbone Company. 167,996; May 8.
Butter and eggs, Creamery. D. Langfeld. 167,877; May 8; Serial No. 167,181; published Jan. 9, 1923.
Butter, Creamery. Kirschbraun & Sons, Inc. 167,886; May 8; Serial No. 167,819; published Feb. 6, 1923.
Butter, Creamery. D. Langfeld. 167,876; May 8; Serial No. 167,182; published Jan. 9, 1923.
Buttons, Extensible cuff. C. C. Taylor. 167,705; May 8; Serial No. 160,645; published Feb. 20, 1923.
Calcined gypsum, plaster of Paris, wall plaster, gauging plaster. United States Gypsum Company. 167,733; May 8; Serial No. 159,633; published Jan. 30, 1923.
Candy. Citizens' Wholesale Supply Co. 167,681; May 8; Serial No. 154,791; published Feb. 13, 1923.
Candy. Norris, Inc. 167,969; May 8.
Candy. Paxton and Gallagher Co. 167,701; May 8; Serial No. 165,410; published Feb. 20, 1923.
Candy and a candied sweetmeat—namely, popcorn. A. A. Kelper. 167,691; May 8; Serial No. 160,014; published Feb. 13, 1923.

Candy and candy filler. Sun Maid Raisin Growers. 167,816; May 8; Serial No. 163,706; published Feb. 20, 1923.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 167,702; May 8; Serial No. 165,393; published Feb. 13, 1923.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 167,703; May 8; Serial No. 165,390; published Feb. 13, 1923.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 167,708; May 8; Serial No. 165,388; published Feb. 13, 1923.
Canned fish. Van Camp Sea Food Company. 167,951; May 8.
Canned fruits. Virden Packing Company. 167,993; May 8.
Canned fruits and vegetables. Golden West Packing Co. 167,869; May 8; Serial No. 168,679; published Feb. 20, 1923.
Canned fruits and vegetables and dried fruit. United States Products Corporation. 167,847; May 8; Serial No. 164,978; published Feb. 20, 1923.
Canned fruits and vegetables, jams, etc. Smithfield's Pure Food Company. 167,955; May 8.
Canned fruits, vegetables, and fish, and coffee. J. J. Hogan, Incorporated. 167,711; May 8; Serial No. 161,130; published Feb. 20, 1923.
Canned fruits, vegetables, and fish, jams, jellies, etc. E. Marre & Bro. 168,018; May 8.
Canned sweetened milk. American Milk Products Corporation. 167,815; May 8; Serial No. 164,019; published Feb. 20, 1923.
Cantaloupes, Fresh. Sawley and Hunt. 167,698; May 8; Serial No. 166,726; published Feb. 20, 1923.
Carbon remover. N-D-N Products Co. 167,916; May 8; Serial No. 169,255; published Jan. 9, 1923.
Carbon-tetrachloride cleansing preparation. Home Products Inc. 167,789; May 8; Serial No. 165,952; published Jan. 30, 1923.
Cardboard, and correspondence paper and envelopes. Allan & Gray. 167,997; May 8.
Cartoons. R. H. Mansfield. 167,855; May 8; Serial No. 161,746; published Feb. 20, 1923.
Catalogues. Sears, Roebuck and Co. 167,921; May 8; Serial No. 169,424; published Jan. 30, 1923.
Cathartic and laxative preparation. Bristol-Myers Company. 167,911; May 8; Serial No. 169,153; published Jan. 9, 1923.
Chains for personal adornment. Jacques Kreisler & Co. 168,031; May 8.
Chamois. Flegle & Saxe. 167,682; May 8; Serial No. 155,678; published Feb. 6, 1923.
Charcoal to be used in connection with stock and poultry feed. Walnut Growers Spray Manufacturing Company. 167,690; May 8; Serial No. 159,825; published Feb. 6, 1923.
Checkerboards. C. Foss. 168,010; May 8.
Cheese for macaroni. W. A. Navigato. 167,641; May 8. Serial No. 168,849; published Jan. 16, 1923.
Chocolate bars. Loose-Wiles Biscuit Company. 167,710; May 8; Serial No. 161,482; published Feb. 20, 1923.
Chocolates and candies. Wallace & Co. 168,021; May 8.
Cigarettes. W. R. Dorsey. 167,984; May 8.
Cleaning compound. A. Nehring & Sons Co. 167,766; May 8; Serial No. 169,216; published Jan. 30, 1923.
Cleaning compound for cleaning carpets, fabrics, etc., and hand soap D. F. Brownewell. 167,918; May 8; Serial No. 169,278; published Jan. 2, 1923.
Cleansing powder. Glenco Chemical Co. 167,901; May 8; Serial No. 169,357; published Jan. 30, 1923.
Cleansing solution having bleaching properties. R. J. Henry. 167,654; May 8; Serial No. 167,875; published Dec. 26, 1922.
Clothes racks. Frank L. Pollard Co. Inc. 167,902; May 8; Serial No. 169,374; published Feb. 6, 1923.
Coal. H. L. Goodwin. 167,656; May 8; Serial No. 167,871; published Jan. 9, 1923.
Coal. Montevallo-Straven Coal Co. 167,963; May 8.
Coal. Southern Coal & Coke Co. 167,748; May 8; Serial No. 169,656; published Dec. 19, 1922.
Coal. Victor-American Fuel Company. 167,957; May 8.
Coal molded and pressed into briquettes. Southern Gem Coal Corporation. 167,695; May 8; Serial No. 167,832; published Feb. 20, 1923.
Coal-tar chemicals or ingredients, rubber accelerators or catalyzers, etc. National Aniline & Chemical Company Inc. 167,660; May 8; Serial No. 167,823; published Jan. 30, 1923.
Cocoa and chocolate. F. & H. Turner Limited. 168,009; May 8.
Composition structures and molded composition building tile, Molded. Magnete Corporation Company. 167,759; May 8; Serial No 170,497; published Feb. 6, 1923.
Compounds for cleaning, coloring, and polishing footwear. Everett and Barron Company. 167,784; May 8; Serial No. 166,817; published Jan. 30, 1923.
Coats and suits. E. J. Wile & Co. 168,003; May 8.
Coats and trousers. L. J. & C. D. Jaffee, Inc. 168,023; May 8.
Coats, cloaks, and suits, Women's and misses'. Harry Greenberg Co. 168,022; May 8.
Construction materials. Wheeling Metal & Manufacturing Co. 167,971; May 8.
Cordial, Medicinal. G. Castello. 167,718; May 8; Serial No. 144,500; published Jan. 9, 1923.
Corduroys in the piece. John S. Boyd Co. 167,673; May 8; Serial No. 173,227; published Feb. 27, 1923.
Corsets. C. G. Brown. 167,995; May 8.
Cotton piece goods. Aberfoyle Mfg. Co. 167,887; May 8; Serial No. 167,968; published Feb. 13, 1923.
Cotton piece goods. American Bleached Goods Company. 168,033-4; May 8.
Cotton piece goods. Burton Bros. & Co. 167,948; May 8.
Crayons, color atlas, individual color charts, color score cards, etc. Munsell Color Company. 167,696; May 8; Serial No. 167,683; published Feb. 20, 1923.
Cream, Cold. Bristol-Myers Company. 167,913; May 8; Serial No. 169,156; published Jan. 9, 1923.
Creams and powders, hair tonic, bath crystals, etc., Face. J. H. Browne. 167,725; May 8; Serial No. 153,236; published Jan. 30, 1923.
Cultivators. Union Fork and Hoe Company. 167,964; May 8.
Cycles. Humber Limited. 167,729; May 8; Serial No. 154,512; published Jan. 30, 1923.
Dates. Richards & Co. (London) Limited. 167,717; May 8; Serial No. 144,297; published Aug. 1, 1922.
Dentifrice. F. N. Lewis. 168,037; May 8.
Disinfectant, Coal-tar. Bertolaia & Goedert. 167,922; May 8; Serial No. 169,472; published Jan. 9, 1923.
Dollies. Sharon Pressed Steel Co. 167,790; May 8; Serial No. 165,765; published Feb. 6, 1923.
Dyes. L. L. Briden & Co. 167,904; May 8; Serial No. 168,871; published Jan. 30, 1923.
Electric generating plants. Kohler Company. 167,671; May 8; Serial No. 172,889; published Feb. 20, 1923.
Electric tail lights, stop lights, backing lights, etc. New England Pressed Steel Company. 167,931; May 8; Serial No. 171,430; published Feb. 20, 1923.
Electrical apparatus. E. J. G. Pacault. 167,714; May 8; Serial No. 138,019; published Jan. 23, 1923.
Enamel, Face. Gloria Co. 167,653; May 8; Serial No. 167,940; published Jan. 9, 1923.
Envelopes. J. W. Lindau, jr. 167,665; May 8; Serial No. 169,979; published Feb. 20, 1923.
Eye liquid. C. Barton. 167,835; May 8; Serial No. 169,234; published Feb. 13, 1923.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. 167,936; May 8; Serial No. 173,559; published Feb. 20, 1923.
Farmers' tools. Champion Tool Company. 167,707; May 8; Serial No. 152,418; published July 25, 1922.
Feed, Live-stock. Southern Oil & Feed Mills, Inc. 167,959; May 8.
Feed, Oxen. Sturges Company. 167,888; May 8; Serial No. 168,076; published Feb. 6, 1923.
Feeds, Horse, mule, cow, etc. Sturges Company. 167,889; May 8; Serial No. 168,077; published Feb. 6, 1923.
Feeders, individual hog houses, and chicken coops, Self-. Adix Manufacturing Company. 167,675; May 8; Serial No. 139,705; published Dec. 26, 1922.
Filters, Air. Staynew Filter Corporation. 167,664; May 8; Serial No. 169,690; published Feb. 20, 1923.
Flour, Tripoli. American Tripoli Company. 167,792; May 8; Serial No. 165,109; published Feb. 6, 1923.
Flour, Wheat. Nobiesville Milling Co. 167,844; May 8; Serial No. 165,239; published Jan. 30, 1923.
Food, Poultry and stock. Maritime Milling Co. Inc. 168,015; May 8.
Foot powder, Medicated. H. Rudnick. 167,747; May 8; Serial No. 169,564; published Jan. 9, 1923.
Footwear, Cleaning, coloring, and polishing preparation for. Everett & Barron Co. 167,642; May 8; Serial No. 168,676; published Jan. 2, 1923.
Forging presses, rolling mills, etc. Davy Brothers. 167,975; May 8.
Fountains and combined fountain and feeders, baby-chick feeders, poultry feeding troughs, etc., Poultry drinking. Hoeft & Company. 167,848; May 8; Serial No. 164,539; published Dec. 26, 1922.
Fruits, Dried and canned. California Fruit Selling Company. 167,700; May 8; Serial No. 165,667; published Feb. 13, 1923.
Fruits, Fresh citrous. Associated Fruit Co. 167,966; May 8.
Fur skins dressed and dyed. Herman Basch & Co. 167,946; May 8; Serial No. 139,752; published Feb. 6, 1923.
Furniture. A. S. Heineman. 167,721; May 8; Serial No. 148,885; published Jan. 30, 1923.
Fuses, Safety device for handling electric. E. V. Gluck. 167,715; May 8; Serial No. 139,206; published Jan. 23, 1923.
Garters. Russell Manufacturing Co. 167,953; May 8.
Gas range dressing and polishing oil. Black Silk Stove Polish Works. 167,650; May 8; Serial No. 168,445; published Jan. 23, 1923.
Gasoline. Mason City Oil & Grease Company. 168,016; May 8.
Gasoline, kerosene, motor oils, greases, etc. Econ Oil & Gas Company. 167,775; May 8; Serial No. 172,641; published Feb. 13, 1923.
Gasoline, motor fuels, and lubricating oils. American Oil Company. 167,769; May 8; Serial No. 173,222; published Feb. 13, 1923.
Gelatin. Societe des Produits Chimiques Coignet. 167,845; May 8; Serial No. 165,097; published Feb. 6, 1923.

Ginghams, chambrays, cheviots, and knitted jersey cloth. Hosch Brothers Company. 167,762; May 8; Serial No. 170,194; published Feb. 13, 1923.
Glass curtain lights and windshields for automobiles. E. W. Hornung. 167,974; May 8.
Grease, Lubricating. Standard Oil Company of New York. 167,800; May 8; Serial No. 162,517; published Feb. 13, 1923.
Gum, Medicated chewing. R. A. Poor. 167,658; May 8; Serial No. 167,829; published Jan. 9, 1923.
Hair and beard, Preparation for the. J. B. Williams Company. 167,906; May 8; Serial No. 168,952; published Jan. 30, 1923.
Hair and prepared hair stock, Raw. Hyman & Oppenheim. 167,924; May 8; Serial No. 170,293; published Feb. 20, 1923.
Hair dressing. M. A. Dickson. 167,745; May 8; Serial No. 169,533; published Jan. 9, 1923.
Hair dyes. G. Baillet. 167,807; May 8; Serial No. 167,218; published Feb. 13, 1923.
Hair goods. Hyman & Oppenheim. 167,894; May 8; Serial No. 167,301; published Feb. 13, 1923.
Hair nets. W. G. Hamilton. 167,752; May 8; Serial No. 170,820; published Feb. 13, 1923.
Hair nets and veils. National Trading Company. 167,976; May 8.
Hair restorer. Philomena Schmalz & Co. 167,874; May 8; Serial No. 168,004; published Feb. 6, 1923.
Hair tonic. E. J. Hatton. 167,808; May 8; Serial No. 166,368; published Feb. 13, 1923.
Hair tonic. E. J. Hatton. 167,839; May 8; Serial No. 168,528; published Feb. 13, 1923.
Hair tonic. F. C. Hayes. 167,919; May 8; Serial No. 169,301; published Jan. 9, 1923.
Hair tonic. M. A. Schaefer. 167,939; May 8; Serial No. 171,870; published Feb. 20, 1923.
Hair tonic. B. L. Shields. 167,741; May 8; Serial No. 168,985; published Jan. 2, 1923.
Hats and caps. Charles S. Merton & Co. 167,794; May 8; Serial No. 164,717; published Feb. 6, 1923.
Headlight dimmers, Electrically-operated. Dimit Co. 167,927; May 8; Serial No. 171,121; published Feb. 20, 1923.
Heater and ventilator, Combined. Columbus Heating & Ventilating Company. 167,873; May 8; Serial No. 168,100; published Feb. 6, 1923.
Heaters, Electric. London Lightingwares Corporation. 168,019; May 8.
Heaters, Gas. A. H. Wolff Gas Radiator Co. 167,728; May 8; Serial No. 154,304; published Jan. 30, 1923.
Hides, furs. Haack & Company. 167,823; May 8; Serial No. 156,901; published Feb. 20, 1923.
Hosiery. B. G. Brumby. 167,814; May 8; Serial No. 164,860; published Dec. 5, 1922.
Hosiery. W. B. Davis & Son. 167,818; May 8; Serial No. 160,753; published Oct. 3, 1922.
Hosiery. Kinloch Hosiery Mills. 167,832; May 8; Serial No. 169,956; published Feb. 13, 1923.
Hosiery. Norristown Hosiery Mills. 167,826; May 8; Serial No. 169,983; published Feb. 13, 1923.
Hosiery, knitted underwear, and sweaters. Cohen & Levinson. 167,982; May 8.
Ice cream, Nongelatinous combination of substances for use in manufacturing. Cherry-Bassett-Winner Company. 167,881; May 8; Serial No. 166,132; published Feb. 20, 1923.
Insecticide. Vermi-Fox Products Co. 167,866; May 8; Serial No. 169,104; published Feb. 20, 1923.
Insecticides. West Disinfecting Company. 167,736; May 8; Serial No. 168,698; published Jan. 2, 1923.
Ironing boards and stands and drying racks. Udell Works. 167,945; May 8; Serial No. 169,610; published Feb. 13, 1923.
Jacks for lifting automobiles, etc. Ever Ready Auto Jack Corporation. 167,965; May 8.
Jams, jellies, marmalades, fruit preserves and butters, candies, etc. Frutrite Products Company. 167,697; May 8; Serial No. 166,991; published Feb. 20, 1923.
Laces, Shoe. Cortland Line Co. 167,765; May 8; Serial No. 169,950; published Jan. 30, 1923.
Ladders. Goshen Manufacturing Co. 167,923; May 8; Serial No. 170,245; published Feb. 20, 1923.
Lard substitutes. Swift and Company. 167,712; May 8; Serial No. 160,637; published Feb. 27, 1923.
Lath and corner beads, Metal. Expanded Metal Engineering Company. 167,722; May 8; Serial No. 149,741; published Jan. 30, 1923.
Laxative, ointments, red-clover extracts, Candy. E. J. Needham. 167,914; May 8; Serial No. 169,178; published Jan. 30, 1923.
Laxatives. Henry K. Wampole and Company Incorporated. 167,735; May 8; Serial No. 168,659; published Jan. 2, 1923.
Lead, Pure white. Eagle Picher Lead Company. 167,926; May 8; Serial No. 170,758; published Feb. 13, 1923.
Lead, White. James A. McCafferty & Sons Manufacturing Company. 167,896; May 8; Serial No. 168,645; published Feb. 13, 1923.
Leather filler. Champion Fibre Company. 167,905; May 8; Serial No. 168,017; published Jan. 2, 1923.
Leather, Partly-prepared. Nickelsburg Brothers Company. 167,797; May 8; Serial No. 163,762; published Feb. 6, 1923.
Leather, Substitute. Textileather Company. 167,883; May 8; Serial No. 165,773; published Jan. 2, 1923.
Lemons, Fresh. Corona Foothill Lemon Company. 167,704; May 8; Serial No. 164,866; published Feb. 6, 1923.
Lemons, Fresh. Corona Foothill Lemon Company. 167,709; May 8; Serial No. 164,865; published Feb. 13, 1923.
Liniment and antiseptic for external application for rheumatism, etc. S. A. Latham. 167,937; May 8; Serial No. 172,602; published Feb. 20, 1923.
Liniment for burns, cuts, bruises, etc., Antiseptic. C. M. Shipman. 167,809; May 8; Serial No. 166,265; published Feb. 13, 1923.
Liniment for rheumatism, influenza, coughs, etc. J. Van Goodwin. 167,834; May 8; Serial No. 169,634; published Feb. 20, 1923.
Liquids, Permanent foam for protection and preventing evaporation of volatile. Standard Oil Company (Incorporated in New Jersey). 167,852; May 8; Serial No. 164,201; published Jan. 2, 1923.
Locks. Miller Lock Company. 167,970; May 8.
Lotion for the treatment of eczema, pimples, itch, etc. Cuir Chemical Company. 168,001; May 8.
Lotion for use after shaving, Antiseptic and cooling. E. F. Koss. 167,871; May 8; Serial No. 168,535; published Feb. 6, 1923.
Lotion, Nasal. A. Webber. 167,838; May 8; Serial No. 169,611; published Feb. 13, 1923.
Machine tools and tool holders, Metal-working. E. F.-G. Gibbs. 167,973; May 8.
Machines for dividing dough. F. H. Sharpe. 167,663; May 8; Serial No. 169,260; published Feb. 20, 1923.
Magazine, Biweekly. Edwin A. Scott Publishing Co. 167,859; May 8; Serial No. 156,660; published Feb. 20, 1923.
Magazine title. National Committee for Mental Hygiene, Inc. 167,754; May 8; Serial No. 170,661; published Jan. 2, 1923.
Magazine, Title of quarterly. American Social Hygiene Association. 167,657; May 8; Serial No. 167,860; published Jan. 30, 1923.
Mattresses. Augusta Bedding Company. 167,753; May 8; Serial No. 170,706; published Feb. 13, 1923.
Mattresses. New England Fibre Mills. 167,772-3; May 8; Serial Nos. 172,648-9; published Jan. 30, 1923.
Meat preservative, flavoring, and coloring compound in liquid form. E. L. Karnes. 167,930; May 8; Serial No. 171,369; published Feb. 13, 1923.
Medical preparation for treatment of asthma. W. M. Roberts. 167,746; May 8; Serial No. 169,562; published Jan. 9, 1923.
Medicinal compound for treating the scalp. R. J. Halseth. 168,011; May 8.
Medicinal powders for internal use. J. S. Tyree. 167,819; May 8; Serial No. 161,460; published Feb. 13, 1923.
Medicinal preparation. Bristol-Myers Company. 167,912; May 8; Serial No. 169,154; published Jan. 9, 1923.
Medicines, Veterinary and poultry. J. H. Knox. 167,840; May 8; Serial No. 164,505; published Feb. 6, 1923.
Metal wool for cleansing, polishing, and scouring. Williams Company. 167,651; May 8; Serial No. 168,283; published Dec. 26, 1922.
Metal-working small tools. Cleveland Twist Drill Company. 167,990; May 8.
Milk for use in making beverages, Malted. J. A. Harris. 167,817; May 8; Serial No. 161,885; published Feb. 20, 1923.
Mirrors, Safety. Rees Manufacturing Company. 167,988; May 8.
Models, (hats and untrimmed shapes.) Gayhart Millinery Corporation. 168,002; May 8.
Mowers and the like, Compound for honing lawn. Zip Maunfacturing Co. 167,885; May 8; Serial No. 167,374; published Jan. 30, 1923.
Music sheets, completely-printed books, photoprints, poems. L. K. McLean. 167,857; May 8; Serial No. 159,165; published Feb. 20, 1923.
Nail bleach and polish, cold cream, sachet powder, lip stick, etc. J. H. Karp. 167,853; May 8; Serial No. 163,886; published Feb. 6, 1923.
Nails. American Steel and Wire Company of New Jersey. 167,893; May 8; Serial No. 168,585; published Feb. 13, 1923.
Necklace clasps and fasteners. Harry C. Schick, Inc. 167,785; May 8; Serial No. 166,960; published Feb. 6, 1923.
Necklaces, bracelets, sautoirs, earrings, etc., Pearl. H. R. Levin. 167,756; May 8; Serial No. 170,532; published Feb. 6, 1923.
Nut locks. Chapman Self-Locking Nut Co. 167,684; May 8; Serial No. 156,983; published Feb. 13, 1923.
Oil, Motor-lubricating. Mutual Oil Company. 168,025; May 5.
Oil, Recovered salad. F. E. Booth Co. 167,805; May 8; Serial No. 167,551; published Feb. 13, 1923.
Oils and greases, Lubricating. M. A. Kahn. 167,820; May 8; Serial No. 159,873; published Feb. 13, 1923.
Oils and greases, Motor. Barber Asphalt Paving Company. 167,786; May 8; Serial No. 166,764; published Feb. 13, 1923.
Oils for heating purposes. Union Petroleum Company. 167,767; May 8; Serial No. 173,453; published Feb. 13, 1923.
Oils for treating leather. Pierce Company. 167,915; May 8; Serial No. 169,224; published Jan. 2, 1923.

Oils, greases, etc. Atlantic Refining Company. 167,693; May 8; Serial No. 160,105; published Feb. 13, 1923.
Oils, Lubricating. Sun Company. 168,007; May 8.
Oils, Olive. Elysee Olive Oil Company. 167,972; May 8.
Ointment for sprains, sore muscles, lumbago, insect bites, etc. John J. Drake & Son. 167,833; May 8; Serial No. 169,621; published Feb. 13, 1923.
Ornaments for decorative purposes, Figure. A. R. Jones. 167,858; May 8; Serial No. 156,744; published Jan. 30, 1923.
Overalls, pants, and coats. Larned, Carter & Company. 167,968; May 8.
Overalls, work shirts and jackets. Oshkosh Overall Company. 168,000; May 8.
Packing, High-pressure sheet. Raybestos Company. 167,731; May 8; Serial No. 155,932; published Jan. 2, 1923.
Paint, paint enamels, lacquers, prepared shellac, etc. Sherwin-Williams Company. 167,678; May 8; Serial No. 147,470; published Feb. 13, 1923.
Paint, paint enamels, stains, lacquers, etc. Martin-Senour Company. 167,821; May 8; Serial No. 155,358; published Feb. 13, 1923.
Paints for waterproofing buildings, expansive joint, Asphaltic. Gardiner & Lewis. 167,676; May 8; Serial No. 141,367; published Feb. 13, 1923.
Paints, paint enamels, stains, and varnishes. Monroe, Lederer & Taussig. 167,929; May 8; Serial No. 171,336; published Feb. 13, 1923.
Paints, paint enamels, stains, and varnishes. Monroe, Lederer & Taussig. 167,932-3; May 8; Serial Nos. 171,811-2; published Feb. 13, 1923.
Paints, Paste. Halove Company. 167,895; May 8; Serial No. 168,609; published Feb. 13, 1923.
Paints, Roof and ready-mixed. Fries, Beall & Sharp Co. 167,943; May 8; Serial No. 169,584; published Feb. 13, 1923.
Paints, varnish stains, etc., Ready-mixed. Con-Ferro Paint & Varnish Co. 167,928; May 8; Serial No. 171,258; published Feb. 13, 1923.
Pants, coats, vests, and men's outer garments for summer wear. David Halpern and Greenberg. 167,793; May 8; Serial No. 165,020; published Feb. 6, 1923.
Paper, Abrasive. Minnesota Mining & Mfg. Co. 167,713; May 8; Serial No. 154,278; published Feb. 13, 1923.
Paper garment bags. Rike Folding Box Company. 167,998; May 8.
Paper, Handmade. C. H. Boulin. 167,768; May 8; Serial No. 173,276; published Feb. 13, 1923.
Papers, Wrapping and transparent. Westfield River Paper Company. 168,032; May 8.
Pearls, Imitation. J. Rosenfeld. 167,782; May 8; Serial No. 171,006; published Feb. 6, 1923.
Pens, Stylographic. J. D. Snow. 167,661; May 8; Serial No. 168,005; published Feb. 20, 1923.
Petroleum jelly and petrolatum. Texas Company. 167,950; May 8.
Petroleum jelly and preparations thereof. Chesebrough Manufacturing Co., Consolidated. 167,907; May 8; Serial No. 168,956; published Jan. 30, 1923.
Petroleum substitute for turpentine. Pure Oil Company. 167,822; May 8; Serial No. 155,319; published Feb. 13, 1923.
Petticoats, ladies' and misses' underwear. Vanity Fair Silk Mills. 168,008; May 8.
Pharmaceutical preparations. Suchywerke A. G. 167,723; May 8; Serial No. 151,235; published Jan. 3, 1923.
Phonograph-record renewer cleaning preparation. Nu-Tone Products Co. 167,903; May 8; Serial No. 168,851; published Jan. 2, 1923.
Pianos. Specter & Son Piano Co. 167,755; May 8; Serial No. 170,602; published Feb. 6, 1923.
Pianos and player pianos. Kohler & Campbell, Incorporated. 167,987; May 8.
Pillows. James W. Brine Company. 167,771; May 8; Serial No. 172,731; published Feb. 13, 1923.
Pills for pimples, boils, etc. National Drug and Chemical Company of Canada, Limited. 167,804; May 8; Serial No. 168,275; published Feb. 13, 1923.
Pins, bar pins, bead neck chains, belt buckles, etc., Baby. Goldsmith, Stern & Co. 167,780; May 8; Serial No. 171,418; published Feb. 6, 1923.
Pins, Safety. F. Kelly Company. 167,750; May 8; Serial No. 170,686; published Jan. 9, 1923.
Pipes, Smokers'. M. M. Importing Co. 167,667; May 8; Serial No. 171,705; published Jan. 30, 1923.
Piston-ring expanders. Manufacturers' Motor Products Co. 167,751; May 8; Serial No. 167,919; published Feb. 6, 1923.
Piston rings. Everyday Piston Ring Company. 167,688; May 8; Serial No. 158,762; published Feb. 6, 1923.
Polish, Furniture. H. Asher. 167,925; May 8; Serial No. 170,603; published Feb. 13, 1923.
Polish, Piano. A. S. Pilcher. 167,758; May 8; Serial No. 170,504; published Feb. 13, 1923.
Polish, Shoe. G. H. Capen. 167,730; May 8; Serial No. 155,394; published Jan. 23, 1923.
Postal cards, Picture. O. Polizzi. 168,036; May 8.
Powder, tint, Face. H. Rimaud. 168,028; May 8.
Powders, face creams, hair tonics, etc., Face and talcum. T. I. Schwartzman. 168,017; May 8.
Powders, Foot. C. G. Boyd. 167,643; May 8; Serial No. 168,629; published Jan. 30, 1923.
Preparation for cleaning and polishing metals, glass, enamelware, etc. Pioneer Soap Company. 167,796; May 8; Serial No. 163,824; published Jan. 30, 1923.
Preparation for cleaning and removing stains from clothing, upholsteries, etc. Electro Silicon Co. 167,875; May 8; Serial No. 167,461; published Feb. 6, 1923.
Preparation for coughs, colds, croup, etc. D. C. Yancey. 167,726; May 8; Serial No. 153,531; published Jan. 30, 1923.
Preparation for the relief of chronic and acute neuritis. G. F. Leahy. 167,659; May 8; Serial No. 167,821; published Jan. 30, 1923.
Preparation for the treatment of asthma. C. R. Bundt. 167,909; May 8; Serial No. 168,997; published Jan. 30, 1923.
Preparation for the treatment of coughs and colds. Cough King Co. 167,740; May 8; Serial No. 168,958; published Jan. 2, 1923.
Preparation for the treatment of rheumatism. Vesuvius Drug Co. 168,024; May 8.
Preparation for the treatment of necro-baccillosis, green scours, or bowel trouble in swine, etc. E. B. Fenton. 167,841; May 8; Serial No. 168,840; published Feb. 13, 1923.
Preparation for washing clothes and a household cleaner for washing woodwork, etc. N. L. Wills. 167,920; May 8; Serial No. 169,341; published Jan. 2, 1923.
Preparations for the treatment of pyorrhea. Pyro-Form Laboratories. 167,842; May 8; Serial No. 169,083; published Feb. 13, 1923.
Prints, post cards, pictures, and photographs. W. C. Brinton. 167,861; May 8; Serial No. 152,693; published Feb. 20, 1923.
Prunes. J. A. Waymorn. 167,977; May 8.
Publication, Fashion. A. Parrish. 167,830; May 8; Serial No. 169,923; published Feb. 20, 1923.
Publication, Monthly. E. S. Rosenthal. 167,734; May 8; Serial No. 168,002; published Jan. 2, 1923.
Purgatives or laxative tablets. Sydney Ross Co. 167,739; May 8; Serial No. 168,903; published Jan. 2, 1923.
Radio apparatus. Radio Specialty Co. 167,829; May 8; Serial No. 169,869; published Feb. 20, 1923.
Radio parts and appliances. Workrite Manufacturing Co. 168,027; May 8.
Radio receiving sets. Oard Radio Laboratories. 167,783; May 8; Serial No. 170,804; published Jan. 30, 1923.
Radioreceivers, radiodetectors, radioamplifiers, electrical condensers, etc. American Automobile Accessories Company. 167,760; May 8; Serial No. 170,476; published Jan. 30, 1923.
Reflectors, Illuminating. Cole Visible Gas Gauge Company. 167,862; May 8; Serial No. 152,363; published Feb. 6, 1923.
Refrigerators, ice chests, nursery boxes, water coolers. Goldenberg's. 167,666; May 8; Serial No. 170,643; published Feb. 20, 1923.
Remedy for the relief of coughs, colds, etc. Bristol-Myers Company. 167,744; May 8; Serial No. 169,526; published Jan. 9, 1923.
Rubber rods, sheets, and tubes, Hard-. American Hard Rubber Company. 167,813; May 8; Serial No. 165,655; published Feb. 20, 1923.
Rubber sheeting. Holstein Rubber Company. 167,868; May 8; Serial No. 168,681; published Feb. 20, 1923.
Rubber valve caps. Dayton Rubber Manufacturing Co. 167,687; May 8; Serial No. 158,761; published Feb. 6, 1923.
Rug and carpet cleaning compound and hand cleanser. Vapo Products Company. 167,900; May 8; Serial No. 169,145; published Jan. 30, 1923.
Sadirons and parts thereof, Gasoline. Coleman Lamp Co. 168,012; May 8.
Salt. Capell Salt Company. 168,014; May 8.
Salve for external use and face cream. Western Wholesale Drug Co. 167,669; May 8; Serial No. 171,971; published Feb. 20, 1923.
Salve, ointment, and liniment. J. D. King, sr. 167,940; May 8; Serial No. 171,928; published Feb. 20, 1923.
Salve or cream for reduction of adipose tissue. H. Oppenheimer. 167,836; May 8; Serial No. 169,495; published Feb. 13, 1923.
Scarfs and mufflers. H. R. Mallinson & Co. Inc. 167,994; May 8.
Seeds, Garden. Stark Bros. Nurseries & Orchards Co. 167,985; May 8.
Seeds, Farm and garden. Pedigreed Seed Company. 167,694; May 8; Serial No. 167,890; published Feb. 20, 1923.
Sewer pipe and tile, except metal and porcelain. Tropico Potteries, Inc. 167,910; May 8; Serial No. 169,097; published Jan. 30, 1923.
Shampoos. Friedrich-Friedrich Chemical Company. 168,030; May 8.
Shingles, Asphalt. Lehon Company. 167,908; May 8; Serial No. 168,975; published Jan. 9, 1923.
Shock absorber. Crown Shock-Absorber Co. 167,806; May 8; Serial No. 167,224; published Feb. 20, 1923.
Shoe dressing. Ex Lent Manufacturing Co. 167,801; May 8; Serial No. 161,722; published Jan. 30, 1923.
Shoe lasts. F. W. Stuart. 167,854; May 8; Serial No. 163,059; published Jan. 30, 1923.
Shoe-repairing machines and tire or vulcanizing machinery. American Shoe Machinery and Tool Company. 167,967; May 8.

Shoulder or body brace. Williams and Wagner. 168,029; May 8.
Signs. Thomas Cusack Company. 167,851; May 8; Serial No. 164,234; published Feb. 6, 1923.
Silk, Chemical preparation used to treat. Carpenter Chemical Company. 167,748; May 8; Serial No. 169,473; published Jan. 9, 1923.
Silk piece goods. H. R. Mallinson & Co. 167,670; May 8; Serial No. 172,755; published Feb. 13, 1923.
Silk, silk and cotton mixed, and cotton piece goods. Fried. Mendelson & Co. 167,892; May 8; Serial No. 168,148; published Feb. 13, 1923.
Silverware, Preparation for cleaning. W. J. Buchner. 168,026; May 8.
Sleighs. J. Krysiak. 167,764; May 8; Serial No. 170,142; published Feb. 6, 1923.
Soap. Alberto Vales Company. 167,644; May 8; Serial No. 168,591; published Jan. 2, 1923.
Soap. Colgate & Company. 167,949; May 8.
Soap. Internationala Limited. 167,956; May 8.
Soap. Haskins Brothers & Company. 167,655; May 8; Serial No. 167,873; published Jan. 2, 1923.
Soap. Latheral Soap Company. 167,757; May 8; Serial No. 170,531; published Jan. 30, 1923.
Soap. Laundrene Soap Co. 167,720; May 8; Serial No. 146,079; published Dec. 26, 1922.
Soap, Mineral. Crysto Soap Co. 167,699; May 8; Serial No. 166,652; published Feb. 13, 1923.
Soap, Oil. Urbane E. Rogers Company. 167,999; May 8.
Soap, Toilet. Andrew Jergens Company of California. 167,683; May 8; Serial No. 156,904; published Jan. 30, 1923.
Soaps. L. Chatham, Sr., Products Company. 167,692; May 8; Serial No. 159,847; published Jan. 30, 1923.
Soaps. E. Schueller. 167,716; May 8; Serial No. 144,157; published Jan. 30, 1923.
Soaps, Laundry and toilet. Sopura Soap Products, Inc. 167,761; May 8; Serial No. 170,343; published Jan. 30, 1923.
Soaps, Liquid shaving. Stomatol Company of America. 167,947; May 8; Serial No. 169,878; published Jan. 30, 1923.
Soldering flux. Pallady Welding & Manufacturing Company. 167,840; May 8; Serial No. 168,548; published Feb. 13, 1923.
Soles and heels and boots and shoes, Slipper. T. Sarson. 167,679; May 8; Serial No. 147,684; published Feb. 6, 1923.
Stakes for supporting cooking and other utensils, Camp-fire. Sterling Products Corporation. 167,846; May 8; Serial No. 165,040; published Feb. 20, 1923.
Steel for buildings, bridges, towers, etc., Manufactured structural. Pittsburgh-Des Moines Steel Company. 167,867; May 8; Serial No. 168,940; published Feb. 20, 1923.
Stereotyping and electroplating, Matrix or dry mat used in. W. B. Wheeler Corporation. 167,882. May 8; Serial No. 165,840; published Feb. 6, 1923.
Stereotyping and electroplating, Matrix or dry mat used in. W. B. Wheeler Corporation. 167,935; May 8; Serial No. 172,300; published Feb. 20, 1923.
Stove boards and conductor pipe. Fries, Beall & Sharp Co. 167,944; May 8; Serial No. 169,585; published Feb. 13, 1923.
Stoves and ranges, Electric. Geo. D. Roper Corporation. 167,938; May 8; Serial No. 171,655; published Feb. 6, 1923.
Stoves, ranges, etc., Gas, coal, wood, or coke cooking or heating. Buckwalter Stove Company. 167,724; May 8; Serial No. 152,232; published Jan. 2, 1923.
Suits and overcoats, Men's. Marion, Anderson Co. 167,981; May 8.
Suits, Women's bathing. Saks & Company. 167,863; May 8; Serial No. 152,106; published Mar. 28, 1922.
Tablets for headaches, colds, and grippe. Tab-Co Company. 167,843; May 8; Serial No. 169,190; published Feb. 13, 1923.
Tableware, scissors, shoehorns, buttonhooks, etc. Franklin Silver Plate Company. 167,680; May 8; Serial No. 147,872; published Feb. 6, 1923.
Tableware, Silverplated flat. International Silver Company. 167,980; May 8.
Talking-machine needles. W. H. Bagshaw Co. 167,991; May 8.
Talking-machine record, talking-machine, radio, and player-piano-roll cabinets. Udell Works. 167,781; May 8; Serial No. 171,110; published Jan. 30, 1923.
Tallow largely used in soap making. New Zealand Refrigerating company. 167,645-7; May 8; Serial Nos. 168,586-8; published Jan. 9, 1923.
Tea. Lam, Glines & Co. 167,879; May 8; Serial No. 167,138; published Feb. 20, 1923.
Teeters. Metallic Industries. 168,006 May 8.
Threads and yarns. M. J. Grady Company. 167,770; May 8; Serial No. 173,078; published Feb. 13, 1923.
Tires, Rubber. Goodyear Tire & Rubber Company. 167,685; May 8; Serial No. 156,991; published Feb. 6, 1923.
Tobacco, cigars, cigarettes, and snuff, Smoking and chewing. "Turmac" Turkish-Macedonian Tobacco Co. 167,856; May 8; Serial No. 150,226; published June 27, 1922.
Toilet preparation for the skin. F. R. Arnold & Co. 167,738; May 8; Serial No. 168,868; published Jan. 2, 1923.
Tomatoes and tomato paste, Peeled. R. Martorilli. 167,732; May 8; Serial No. 156,453; published Dec. 26, 1922.
Toy horses. International Toy Company. 167,942; May 8; Serial No. 171,997; published Feb. 20, 1923.
Trailers. Sharon Pressed Steel Co. 167,811; May 8; Serial No. 165,766; published Feb. 13, 1923.
Truck and car bodies. Continental Car Company of America. 167,827; May 8; Serial No. 170,008; published Feb. 20, 1923.
Trucks, Hand. Sharon Pressed Steel Co. 167,812; May 8; Serial No. 165,764; published Feb. 13, 1923.
Trucks, Industrial. Elevator Electric Industrial Truck Co. 167,828; May 8; Serial No. 170,012; published Feb. 13, 1923.
Tubes, Seamless brass, copper, and condenser. British American Metals Company. 167,803; May 8; Serial No. 160,392; published Feb. 13, 1923.
Typewriting machines and typewriting-machine parts. Underwood Typewriter Company. 167,706; May 8; Serial No. 157,642; published Feb. 20, 1923.
Underwear, Men's athletic. Nantex Mfg. Co. 167,898; May 8; Serial No. 168,686; published Feb. 6, 1923.
Underwear, hosiery, sweaters, etc. Levi & Seligman, Inc. 168,005; May 8.
Underwear, Men's athletic. Embassy Manufacturing Corporation. 167,791; May 8; Serial No. 165,488; published Feb. 6, 1923.
Union suits, vests, and pants, Ladies'. Textile Manufacturing Co. 167,831; May 8; Serial No. 169,937; published Feb. 13, 1923.
Utensils, Scouring. Chore Utensils Corporation of America. 167,897; May 8; Serial No. 168,670; published Jan. 30, 1923.
Variocouplers, variometers, detector and amplifying units, etc. Ra-Do Corporation. 167,810; May 8; Serial No. 165,968; published Feb. 20, 1923.
Varnish. Atlantic Varnish Works, Inc. 167,776; May 8; Serial No. 172,504; published Feb. 13, 1923.
Varnish, Color. McPhee & McGinnity Company. 167,774; May 8; Serial No. 172,645; published Feb. 13, 1923.
Varnish restorer. Corlear Products Co. 167,777; May 8; Serial No. 172,466; published Feb. 13, 1923.
Vaults, Grave. National Grave Vault Co. 168,035; May 8.
Valves, Metal. Sliding Valves Incorporated. 167,979; May 8.
Vehicles, Air springs for. Pneumatic Cushion Company. 167,954; May 8.
Vehicles, Top recoverings and seat covers for. Straus-Frank Company. 167,983; May 8.
Wall boards, lining for houses, plaster bases, etc., Composition of material for. Dahlberg & Company. 167,788; May 8; Serial No. 166,175; published Feb. 6, 1923.
Wall boards, linings for houses, plaster bases, etc., Composition of material for. Dahlberg & Company. 167,870; May 8; Serial No. 168,575; published Feb. 6, 1923.
Washing dishes and metal articles, Machines for. G. S. Blakeslee & Co. 167,989; May 8.
Washing machinery. George F. Merrell, Inc. 167,798; May 8; Serial No. 163,641; published Feb. 6, 1923.
Washing powder for laundry purposes. H. Kohnstamm & Co. 167,727; May 8; Serial No. 154,369; published Jan. 2, 1923.
Washing tablets and compounds, windshield cloths, etc. F. F. Horst. 167,799; May 8; Serial No. 163,167; published Jan. 30, 1923.
Watches and clocks. Robt. H. Ingersoll & Bro. 167,686; May 8; Serial No. 158,476; published Feb. 13, 1923.
Watches, clocks and parts thereof. Hoffman Bros. Inc. 167,779; May 8; Serial No. 171,798; published Feb. 13, 1923.
Water and ginger ale, Natural mineral. R. S. Gitterman. 168,013; May 8.
Waterproofing plastic compositions for roads and cement constructions. H. A. Gardner. 167,648-9; May 8; Serial Nos. 168,524-5; published Jan. 9, 1923.
Webbings, Elastic. Russell Manufacturing Company. 167,742; May 8; Serial No. 169,258; published Jan. 9, 1923.
Webbings, Elastic. Russell Manufacturing Company. 167,749; May 8; Serial No. 170,548; published Jan. 9, 1923.
Welding apparatus using gas. Prest-O-Lite Company. 167,674; May 8; Serial No. 107,374; published Feb. 6, 1923.
Wheels, Vehicle. Hall Wheel Corporation. 167,825; May 8; Serial No. 170,137; published Feb. 13, 1923.
Wheelbarrows and parts thereof. Kilbourne & Jacobs Manufacturing Company. 167,890; May 8; Serial No. 168,845; published Feb. 6, 1923.
Windshield shade. Wedler Shuford Co. 167,677; May 8; Serial No. 142,367; published Feb. 6, 1923.

ALPHABETICAL LIST OF LABELS.

Anodyne Emulsion. For Emulsion. W. E. Wise. 25,924; May 8.
Camp Fire. For Smoked Meats. Virden Packing Company. 25,923; May 8.
Columbia Gray Label. For Electric Batteries. National Carbon Company. 25,918; May 8.
Dairylea Condensed Milk. For Condensed Milk. Dairymen's League Co-Operative Association, Inc. 25,907; May 8.
Dairylea Evaporated Milk. For Evaporated Milk. Dairymen's League Co-Operative Association, Inc. 25,906; May 8.
Eveready Radio "A" Battery. For Electric Batteries. National Carbon Company. 25,917; May 8.
Flostik Minute-Dry Golf Ball Renewer. For Paint. Flostik Company. 25,909; May 8.
Krank's Fix-A-Gloss. For Hair Fixative and Dandruff Remedy. A. J. Krank. 25,912; May 8.
Krank's Lemon Facial Pack. For Skin Treatment and Beautifier. A. J. Krank. 25,913; May 8.
Kreeper. For Infants' Hosiery. Krueger Tobin Co. Inc. 25,914; May 8.
Lustershine Black Gloss. For Containers for Black Gloss. I. Slavin. 25,921; May 8.
Mittac. For Nonalcoholic Maltless Beverages and Sirups for Preparing the Same. R. Hill. 25,911; May 8.
Mt. Tom. For Bread. Labrecque Brothers. 25,915; May 8.
Nafziger Fluffy-Loaf. For Bread. Nafziger Baking Company. 25,916; May 8.
Scot Toilet Paper. For Toilet Paper. Scott Paper Company. 25,920; May 8.
Snookum Brand Fruits and Vegetables. For Fruits and Vegetables. Fegenbush & Mellen. 25,908; May 8.
Sunshine Polish. For Preparation for Cleaning and Polishing Automobiles. C. A. Payne. 25,919; May 8.
Todd's Old Virginia Hams. For Hams. E. M. Todd Co. 25,922; May 8.
True Bread. For Wrapper for Loaves of Bread. General Baking Company. 25,910; May 8.

ALPHABETICAL LIST OF PRINTS.

American Family. For Soap. James S. Kirk & Company. 6,700; May 8.
Blank's Fine Chocolates. For Chocolates. Carl Percy, Inc. 6,701; May 8.
Eat Eline's Milk Chocolate Bars. For Chocolate. Eline's Incorporated. 6,690; May 8.
Fashionknit Turtle Ties. For Knitted Necktie. Franklin Knitting Mills, Inc. 6,691; May 8.
First Choice. For Coffee. Hills Bros. 6,699; May 8.
First in Flavor. For Coffee. Hills Bros. 6,697; May 8.
First in Freshness. For Coffee. Hills Bros. 6,696; May 8.
First in Perfection. For Coffee. Hills Bros. 6,693; May 8.
First in Quality. For Coffee. Hills Bros. 6,695; May 8.
First-try. For Coffee. Hills Bros. 6,694; May 8.
First in Vacuum. For Coffee. Hills Bros. 6,698; May 8.
Next To Myself I Like 'B. V. D.' Best. For Athletic Underwear. B. V. D. Company. 6,688; May 8.
Power. For Storage Batteries. Grier-Sutherland Co. 6,692; May 8.
The Stork Model Nesmoht Portable Obstetrical Table. For Nesmoht Portable Obstetrical Table. J. H. Thomsen. 6,702; May 8.
They Know Why They Prefer "B. V. D." For Athletic Underwear. B. V. D. Company. 6,689; May 8.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aerial insulators and radio panels. American Hard Rubber Company. 176,778; May 8.
Alcohol. Rubbing and massaging. Forst Laboratories. 171,073; May 8.
Almonds. California Almond Growers Exchange. 157,024–5; May 8.
Apples, Fresh. Alaga & Forencich Co. 174,422; May 8.
Apples, Fresh. W. A. Bolinger. 171,896; May 8.
Arch supporters for the human foot. H. G. Bentley. 176,108; May 8.
Art objects. Decorative Arts League. 144,853; May 8.
Auto products. Auto Products Mfg. Co. Inc. 158,744; May 8.
Automobile and constructive parts thereof. Star Motors Incorporated. 171,340; May 8.
Automobile auxiliary gasoline tank. Sur-Duz Products Company. 167,957; May 8.
Automobiles. Stephens Motor Car Company. 175,571; May 8.
Automobiles and constructive parts thereof. Locomobile Company of America, Incorporated. 172,002; May 8.
Awnings, awning frames, covers, and parts thereof. F. R. Ashley. 173,068; May 8.
Bags, baseball, bathing, and college caps, men's and ladies' sport clothes, Bat. P. Goldsmith's Sons. 139,353; May 8.
Balls, Golf. I. B. Levy. 171,503; May 8.
Bathing suits. Avalon Knitwear Company. 168,570; May 8.
Baths, Carnotite. A. O. McMichael. 173,870; May 8.
Beads. Nelson Bead Company. 175,151; May 8.
Belting, Leather. Chicago Belting Company. 174,889; May 8.
Biscuits, crackers, and Dutch-style cookies. W. R. Montague Company. 167,579; May 8.
Blueberries, Fresh. Joseph J. White, Inc. 172,457; May 8.
Books, Series of. Little, Brown & Company. 173,516; May 8.
Boots and shoes. Eli Boot Shop Co. 173,629; May 8.
Boots and shoes. Whitman & Keith Co. 171,974; May 8.
Bracelets, finger rings, brooches, bar pins, and buttons. Hinckley Manufacturing Company. 168,469; May 8.
Braid. American Webbing Company. 168,703; May 8.
Bran. Potter-Wrightington, Inc. 171,467; May 8.
Bread. General Baking Company. 160,056; May 8.
Bread. Ward Baking Company. 173,456; May 8.
Bread. D. S. Wilson, M. D. 165,050; May 8.
Bronze powder and bronzing liquid. United States Bronze Powder Works, Inc. 176,313; May 8.
Buckles and belt links. E. Abraham. 176,589; May 8.
Buckles, thimbles, bracelets, etc. Calhoun, Robbins & Co. 172,208; May 8.
Butter, Creamery. Harrow-Taylor Butter Co. 170,328; May 8.
Butter, eggs, milk, cream, and cheese. Gold Meadow Creamery. 167,298; May 8.
Candies. Mary M. Hardy & Florence H. Baird. 174,737; May 8.
Candy. Bunte Brothers. 168,294; May 8.
Candy. Bunte Brothers. 168,446; May 8.
Candy. George Close Co. 170,564; May 8.
Candy. C. E. Gheens. 169,542; May 8.
Candy. E. A. Hoffman. 168,471; May 8.
Candy bar. Miller-McMillen Co. 172,235; May 8.
Candy bar, Chocolate. Theodore Gottmann & Sons. 170,015; May 8.
Candy kisses. H. E. Ballance. 170,265; May 8.
Canned apricots, grapes, plums, peaches, pineapple, cherries, pears, corn, peas, and asparagus. Francis H. Leggett & Company. 171,275; May 8.
Canned evaporated milk. C. A. Baumann. 155,662–3; May 8.
Canned fruits and vegetables. Griffith-Durney Co. 170,016; May 8.
Canned fruits and vegetables. Haas Brothers. 174,694; May 8.
Canned fruits and vegetables. McKnight-Keaton Grocery Co. 177,612; May 8.
Canned fruits and vegetables. H. M. Newhall & Co. 169,771; May 8.
Canned fruits, flavoring extracts, fruit jams, etc. Johnson-Appleby Company. 146,440; May 8.
Canned fruits, vegetables, and fish, dried fruits, etc. North American Mercantile Co. Inc. 174,910; May 8.
Canned peaches, canned Lima beans, beans, tomatoes, and sweet potatoes. American Cone and Pretzel Company. 171,400; May 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Canned peas, tomato purée, apples, etc. Standard Purveyors, Inc. 174,344; May 8.
Canned pineapple. Haiku Fruit & Packing Co. 169,243; May 8.
Canned pineapple. Hawaiian Pineapple Company. 147,426; May 8.
Canned prepared caviar. D. K. Doucleff. 172,266; May 8.
Canned salmon. A. A. Anderson. 172,822; May 8.
Canned sauerkraut. Castle Company. 170,273; May 8.
Canned tomatoes. Tamal Packing Co. 174,599; May 8.
Canned vegetables. Waupun Canning Co. 166,424; May 8.
Canned vegetables and fruits. Lake Odessa Canning Co. 175,796; May 8.
Caps for men, women, and children. W. London. 165,753; May 8.
Cement, Radiator. Try-Me Radiator Cement Company. 173,866; May 8.
Cereals, Breakfast. Battle Creek Food Company. 172,575–6; May 8.
Cheese, Swiss. Alpina Cheese Co. 170,111–12; May 8.
Cheese, Swiss. Alpina Cheese Co. 170,114; May 8.
Chinaware. Mayer China Company. 175,017; May 8.
Chocolate coating. Ideal Cocoa & Chocolate Co. 174,740; May 8.
Chocolate coating. Ideal Cocoa & Chocolate Co. 174,780; May 8.
Chocolates wrapped in colored metal foil. J. G. Smith. 141,193; May 8.
Cigarettes. E. Funke. 177,553–4; May 8.
Cigarettes, cigars, smoking and chewing tobacco, etc. V. Jones. 167,245; May 8.
Cigars. S. Rodriguez. 178,360; May 8.
Cigars. J. H. C. Schoettker Sons. 174,639; May 8.
Cigars. M. Stern. 169,516; May 8.
Coats and capes, Children's and ladies'. Yale Cloak Co. Inc. 166,426; May 8.
Coffee. F. Danna. 172,146; May 8.
Coffee. J. S. Elliott Coffee Company. 159,746; May 8.
Coffee. J. F. Goodson & Company. 170,582; May 8.
Coffee. C. D. Kenny Company. 167,944; May 8.
Coffee. Laird Manufacturing Co. Inc. 171,581; May 8.
Coffees, candies, chocolates, and chocolate-covered confections. R. J. George. 163,796; May 8.
Collars, neckties, suspenders, etc. Babcock & Shannon Co. 168,869; May 8.
Concrete mixers, saw fables, etc. C. E. La Boyteaux. 174,966; May 8.
Condensers, Electrical. L. A. Hazeltine. 176,678; May 8.
Confection. H. Lehoczky. 172,481; May 8.
Confections. A. H. Bechtol. 170,617; May 8.
Cookies and confectionery. T. A. Huston & Co. 171,696; May 8.
Corsets. J. L. Alberts. 165,517; May 8.
Cotton fabrics in the piece, Woven. G. A. Stafford. 176,103; May 8.
Cotton piece goods. Brune, Pottberg & Co. 176,535; May 8.
Cotton piece goods and handkerchiefs. Huessy & Co. 163,982; May 8.
Crayons and pencils. American Crayon Company. 177,347; May 8.
Dates. B. K Marvin 170,688; May 8.
Dates, salted nuts, and preserved figs. Royal Seal Food Products Co. 170,789; May 8.
Dresses, coats, and blouses, Ladies'. R. Kirshbaum & Son, Inc. 169,957; May 8.
Dresses, Ladies'. L. Bernstein. 169,235; May 8.
Dresses, Ladies' and misses'. Jos. A. Morris & Co. 170,399; May 8.
Drinks, Nonalcoholic, maltless soft. J. F. Lazier Mfg. Co. 175,430; May 8.
Earrings, hatpins, brooches, etc. Miller Brothers. 176,800; May 8.
Edible container with ice cream or an analogous filler. E. J. H. Westphal. 171,676; May 8.
Edible preparation. Whip-Lite Products Co. 160,840; May 8.
Eggs. C. W. Jean Company. 112,202; May 8.
Eggs, butter, poultry, pecans. Peter Company. 172,434; May 8.
Electric bulbs and lamps. P. Riesman. 174,924; May 8.
Electrical controlling devices, etc. Allen-Bradley Company. 176,438; May 8.
Engines, Fuel intensifier and carbon preventive for internal-combustion. McComas & Goodwin. 154,374; May 8.
Feed, Poultry. Ansted & Burk Co. 171,783; May 8.
Feed, Poultry. Ralston Purina Company. 173,722; May 8.
Feed, Poultry. Tioga Mill & Elevator Co. 173,687; May 8.
Files and rasps. C. O. Oberg & Co: s Aktiebolag. 175,514; May 8.
Flavors for food, marshmallow topping, etc. United Confectioners Supply Co. 158,906; May 8.
Flour, Self-rising. American Hominy Company. 173,391; May 8.
Flour, Self-rising. Lawrenceburg Roller Mills Co. 170,772–3; May 8.
Flour, Self-rising wheat. Ballard & Ballard Co. 172,719; May 8.
Flour, Wheat. Midland Flour Milling Co. 173,655; May 8.
Flour, Wheat. Red Star Milling Company. 172,173; May 8.
Flour, Wheat. Wabasha Roller Mill Company. 172,918; May 8.
Food preparation. Coleman and Company Limited. 140,919; May 8.
Food products. Hutchison Thrift Corporation. 169,059; May 8.
Foodstuffs preserved in hermetically-sealed containers. W. H. Killian Co. 167,179; May 8.
Fruit preserves, jams, jelly, apple butter, sweet and sour pickles, sour relish, etc. G. H. Wetterau & Sons Grocer Company. 170,736; May 8.
Fruit preserves, jellies, and other canned fruit products. Titze and Fortkamp Company. 172,620; May 8.
Fruits and fresh vegetables, Fresh deciduous. W. R. Parvin. 168,372; May 8.
Fruits, dried or dehydrated fruits and vegetables, etc., Fresh citrous and deciduous. J. L. Taylor Co. 164,977; May 8.
Fruits, Fresh citrous. Vero Indian River Producers Association. 171,478; May 8.
Fur coats, capes, etc. Feldbaum & Spiegel, Inc. 169,439; May 8.
Furniture, Dining-room. Bockstege Furniture Co. 173,347; May 8.
Game of chance, Apparatus for playing a. J. Greig. 176,022; May 8.
Games, Card. Parker Brothers. 175,210; May 8.
Gasoline, kerosene, and motor fuel oils. Snowolene Holding Company. 174,803; May 8.
Gauze, Unmedicated. Griswoldville M'f'g Co. 175,310; May 8.
Gear wheels and gear-wheel blanks, Nonmetallic. General Electric Company. 176,118; May 8.
Grapes, Fresh. W. C. McLellan. 168,371; May 8.
Gum, Chewing. Apple Gum Company. 173,161; May 8.
Hair grower. E. Stevens. 165,642; May 8.
Hair nets. Gracenet Co. 176,404; May 8.
Handkerchiefs and hair nets. Western Bottle Manufacturing Company. 176,136; May 8.
Hat linings for ladies' hats. Chicago Mercantile Co. 154,670; May 8.
Hats. Mallory Hat Company. 156,653; May 8.
Hats. R an W Hat Shop, Inc. 174,445; May 8.
Hats and caps. M. Rappaport. 171,468; May 8.
Hats and caps, Men's. Young Hat Company. 175,375; May 8.
Hats for men and boys. Bunnie Hat Co. Inc. 159,552; May 8.
Headlight cover glasses, Automobile. United States Lens Company. 173,059; May 8.
Hosiery. Colony Hosiery Mills. 153,923; May 8.
Hosiery. S. A. Goldberg. 170,375; May 8.
Hosiery. Greenebaum, Weil & Michels. 169,590; May 8.
Hosiery. Dr. A. Posner Shoes, Inc. 149,772; May 8.
Hosiery. Powell Knitting Company. 166,248; May 8.
Hosiery. Powell Knitting Company. 168,237; May 8.
Hosiery. Read Hosiery Mills. 168,788; May 8.
Hosiery. Real Silk Hosiery Mills. 157,535; May 8.
Hosiery. Toewear Hosiery Incorporated. 148,774; May 8.
Hosiery and knitted underwear. Realsilk Fabrics Corporation. 170,308; May 8.
Hosiery and underwear. Davenport Brothers. 166,295; May 8.
House organ, Published monthly. National Paving Brick Manufacturers Association. 175,099; May 8.
Iceless and fireless receptacles for retaining heat and cold. P. H. Brainard. 176,061; May 8.
Insect powder. A. Dabrasky. 166,769; May 8.
Insecticide ointment and shampoo. Dr. Becker Medicine Co. 174,382; May 8.
Key cases. F. G. Bowen. 157,651; May 8.
Knit underwear, Ladies'. California Underwear and Hosiery Mills. 160,618; May 8.
Knitted caps. Bamberger Reinthal Co. 151,864; May 8.
Lacquer, Pyroxylin. Flood & Conklin Company. 178,173; May 8.
Lemons, Fresh. Santa Paula Citrus Fruit Association. 163,703; May 8.
Lightning arresters. T. Patrycki. 175,884; May 8.
Lime. Brewer & Company. 175,129; May 8.
Lining, bricks, cements, and furnace bottom grains, etc., Refractory. Vitrefrax Company. 170,417; May 8.
Lining, mastic fire walls, cements, etc., Refractory. Vitrefrax Company, Inc. 170,414–15; May 8.
Macaroni. Peter Rossi & Sons Inc. 170,730; May 8.
Magazine, Monthly. Oklahoma Publishing Company. 175,266; May 8.
Magazine, Serial monthly. V. J. Farley. 174,564; May 8.
Mat, Leather flexible door. S. J. Kane. 171,926; May 8.
Matches. Mitsui Bussan Kaisha, Ltd. 156,001–1; May 8.
Mattresses. Stearns & Foster Company. 160,094; May 8.
Mayonnaise and Thousand Island salad dressing. R. A. Lunsford. 174,087; May 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mayonnais: dressing. C. Vander Koogh. 145,403; May 8.
Meats, Smoked. Virden Packing Company. 142,184; May 8.
Medicine for the treatment of diphtheria and membranous croup. John T. Stapleton and John Tracy Stapleton. 173,905; May 8.
Medicine, Liver, kidney, and stomach. Spinks & McIlwain. 168,736; May 8.
Medicines and toilet preparations. D. Sweet. 164,776; May 8.
Milk powder, Whole-. Merrell-Soule Company. 174,474; May 8.
Mirrors, picture frames, Hand. E. I. du Pont de Nemours & Company. 170,239; May 8.
Motor cycles and perambulators, pillory-seat supports, and saddles for motor cycles. F. H. Headley. 129,890; May 8.
Motors, Portable electric. Champion Appliance Manufacturing Company. 170,926; May 8.
Necklaces, bracelets, brooches, etc. G. P. McKenna. 173,606; May 8.
Necklaces, Imitation-pearl. P. M. Shugart. 176,704; May 8.
Nets, draperies, and curtains made of cotton. Patchogue-Plymouth Mills Corporation. 169,924; May 8.
Newspaper and annual, High-school. Independent School District of Newton. 173,833; May 8.
Nuts and candy, Chocolate-coated. O. P. Catsigianis. 172,257; May 8.
Oil, Cleaning and polishing. H. M. Ruggles. 165,159; May 8.
Oil, Compounded. Hercules Powder Company. 176,829; May 8.
Oil, Compounded. Hercules Powder Company. 176,834; May 8.
Oil, Pine. Hercules Powder Company. 176,830–3; May 8.
Oil, Pine. Hercules Powder Company. 176,835; May 8.
Oils, Edible. De Bruyn Limited. 169,125; May 8.
Oilers, Elevator-rail. C. M. Osterberg. 172,551; May 8.
Ointment. Parke, Davis & Company. 173,903; May 8.
Oleo, oleo oil, and shortening. Consolidated Rendering Co. 162,723; May 8.
Oysters. S. B. Field. 173,184; May 8.
Paint, Liquid. Toch Brothers, Incorporated. 177,251; May 8.
Paint, varnish, paint enamel, etc. Regulation Paint Co. 176,044; May 8.
Paints. E. M. and F. Waldo. 168,503; May 8.
Paints, paint enamels, stains, varnishes. Monroe Lederer & Taussig. 174,256; May 8.
Pants, jackets, overalls, etc. Babcock & Shannon Co. 168,870; May 8.
Paper and envelopes. Berlin & Jones Company. 176,783; May 8.
Paper, Bond. Peerless Paper Company. 171,653; May 8.
Paper bread wrappers. Package Paper & Supply Corporation. 177,923; May 8.
Paper, Carbon. Kee Lox Manufacturing Company. 153,297; May 8.
Paper, envelopes, Printing and writing. Johnson-Breyding-Johnson. 177,302; May 8.
Paper for use in making cigarettes. Robert Fletcher & Son Limited. 173,413–5; May 8.
Paper, Printing and writing. Hampshire Paper Company. 168,305; May 8.
Peanut butter. G. Townsend. 167,855; May 8.
Peanuts, Roasted and salted. R. J. George. 163,795; May 8.
Petroleum and products of petroleum. Standard Oil Company of New York. 177,879; May 8.
Petroleum and products of petroleum. Standard Oil Company of New York. 177,881; May 8.
Petroleum and products of petroleum. Standard Oil Company of New York. 178,147; May 8.
Pharmaceutical preparations. Chemische Fabrik "Norgine" Dr. Victor Stein. 163,139; May 8.
Pharmaceutical preparations. Fine Products Company. 173,822; May 8.
Phonographs, Electrical sound amplifiers for. Magnavox Company. 155,823; May 8.
Phonographs, Sound boxes for. Sears, Roebuck and Company. 140,073; May 8.
Pickles. American Pickle & Canning Company. 172,717; May 8.
Pickles and condiments. Price-Booker Manufacturing Company. 174,100; May 8.
Pies, cakes, bread, and pastries. C. W. Gosney. 169,757; May 8, 1923.
Pins, Safety. American Pin Company. 177,061; May 8.
Piston rings, belting, hose, machinery packing, and non-metallic tires. Velvet Piston Ring Co. 171,824; May 8.
Platers' bars, sheet metal, metal rods, and ingots. Platinide Co. Inc. 173,719; May 8.
Pocket books, bill folds, cardcases, etc. U. S. Leather Goods Company. 173,455; May 8.
Polish for automobiles, furniture, etc. Sun-Bil Auto Polish Co. 177,926; May 8.
Polishing wheels, Cloth. A. P. Munning & Co. 166,190; May 8.
Polishing wheels, Cloth. A. P. Munning & Co. 166,193; May 8.
Potato, Cooked. M. F. Ruffner. 172,442; May 8.
Poultry, Dressed. Seymour Packing Company. 174,025; May 8.
Powder to be used in the preparation of salad dressing. G. M. Field. 171,158; May 8.
Preparation for the treatment of piles. L. Wodiczka. 173,616; May 8.
Preparation for the treatment of rheumatism, Liquid. F. Burnes. 174,426; May 8.
Pretzels. York Pretzel Bakers. 172,790–1. May 8.
Proteins, pollens, urease, etc. Arlington Chemical Company. 173,587; May 8.
Prunes. Walla Walla Valley Prune Growers Co-Operative Association. 166,697; May 8.
Publications, House organ. Goodyear Tire & Rubber Company. 157,566; May 8.
Publications, Periodical. Institute for Public Service. 173,707; May 8.
Pump coupling. J. J. O'Brien. 176,757; May 8.
Pumps. F. E. Myers & Bro. Co. 158,784; May 8.
Radio apparatus, Dials made of hard rubber for. American Hard Rubber Company. 175,694; May 8.
Refrigerators, Domestic. Prescott & Company. 177,190; May 8.
Relishes, Vegetable. G. J. Easton. 172,140; May 8.
Remedy for chickens, Sorehead. T. J. Knight. 158,875; May 8.
Revivifying kieselguhr, apparatus for producing charcoal, fish-meal apparatus, and sirup clarifiers, Apparatus for. Stanley Hiller, Inc. 171,713; May 8.
Rings, Finger. B. F. Brogan. 176,714–15; May 8.
Rings, Finger. Standard Ring Co. 167,540; May 8.
Rope, sash cord, seine twines, etc., Cotton. Wm. E. Hooper & Sons Co. 168,151; May 8.
Rubber goods and druggists' sundries, Surgical. Lamke & Stemme, Inc. 173,237; May 8.
Rubber jar rings. Cupples Company Manufacturers. 172,584; May 8.
Rubber mats, waterproofed fabrics, etc. Tetralin Gesellschaft mit beschränkter Haftung. 142,044; May 8.
Safes, vault doors, locks, and safe-deposit boxes. Diebold Safe & Lock Company. 174,127; May 8.
Safety pins. Sears, Roebuck and Co. 175,215; May 8.
Salad dressing. C. Weisbecker. 174,349; May 8.
Semolinas, rices, alimentary pastes, and biscuits. "Cérès" Docks, Minoterie, Semoulerie Pates Alimentaires. 153,385; May 8.
Sheetings and shirtings. Pacific Mills. 158,725; May 8.
Shirts. Kingly Shirt Co. 169,363; May 8.
Shirts from creeping up, Devices for preventing. Shirt Snubers Company. 176,577; May 8.
Shirts, Men's and boys' dress. Lanchester Shirt Co. Inc. 169,717; May 8.
Shirts, Neckbands for men's. C. W. Lifschitz. 159,400; May 8.
Shirts, pyjamas, and underwear, Men's dress and negligee. Wilson Brothers. 170,320; May 8.
Shoe findings. P. Fernandez. 171,794; May 8.
Shoes. L. E. Grossman, Inc. 171,637; May 8.
Shoes. Melville Shoe Corporation. 173,575; May 8.
Shoes. John F. Travers Shoe Co. 173,734; May 8.
Suits, Boys' sailor. Alexander Linsk & Company. 159,157; May 8.
Silk fabrics in the piece. Cheney Brothers. 177,035; May 8.
Sirups for manufacture of nonalcoholic maltless beverages, etc., Concentrated. V. Jones. 167,247; May 8.
Soaps. I. Suliman. 174,944; May 8.
Soaps, soap pastes and powders. Parfumerie Roger & Gallet. 173,142; May 8.
Spark plugs. H. R. Palmer. 176,205; May 8.
Stationery. New England Stationery Company. 178,454; May 8.
Steel in bar, etc., forms, steel castings and forgings. Hadfields Limited. 175,553; May 8.
Suits, cloaks, overcoats, hats, caps, shoes, etc. Chas. V. Parker Co. 148,549; May 8.
Suits, coats, dresses, furs, etc., Ladies' and misses'. Cincinnati Cloak & Suit Company. 169,948; May 8.
Sweepers, Electric suction. Hoover Company. 175,245; May 8.
Syringes, Hypodermic. Donizer & Company Inc. 176,957; May 8.
Syrup, Maple. C. W. Treat. 172,021; May 8.
Talking-machine-record albums. Jordan Marsh Company. 177,976; May 8.
Tape and braid of all kinds. F. W. Woolworth Co. 177,807; May 8.
Tea, coffee, rice, and extracts for seasoning foods. T. Masuda. 159,518; May 8.
Teeth, Filling for. Garhart Dental Specialty Company. 176,793; May 8.
Thread, Cotton. Societe en Commandite Maurice Frings & Cie. 177,573; May 8.
Toes, Mechanical devices for straightening crooked. M. Sahlin. 176,134; May 8.
Tonic, Digestive. E. S. Gebhart. 174,518; May 8.
Tonic, Medicinal. Wonder Medicine Company. 172,313; May 8.

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Tooth paste, wash, and dentifrice. Associated Radium Chemists, Inc. 166,025; May 8.
Traffic lights. Traffic Control, Incorporated. 175,417; May 8.
Transformers, Electrical. L. A. Hazeltine. 176,677; May 8.
Umbrellas. Kortenbach & Rauh. 162,557; May 8.
Undergarments, Women's fitted. Warner Brothers Company. 174,046; May 8.
Underwear for men, women, and children, Nainsook J. B. Hirshfeld. 166,072; May 8.
Underwear, Ladies' silk. Vanity Fair Silk Mills. 147,649; May 8.
Underwear, Nainsook athletic. M. P. Tully. 166,542; May 8.
Vacuum cleaners, Electrically-driven. Landers, Frary & Clark. 175,709; May 8.
Vehicle wheels, Antitheft locks for motor. G. E. Westberg. 177,155; May 8.
Vinegar, Canned pork and beans, soup, etc., Apple. Hood River Apple Vinegar Co. 147,960; May 8.
Water-heaters, Gas. Bastian-Morley Co. 173,950; May 8.
Window regulators. Dura Company. 169,803; May 8.
Wire composed of copper specially treated. American Copper Products Corporation. 160,686; May 8.
Wrenches. W. M. Lawrence. 170,721; May 8.
Yarns. Bernhard Ulmann Co. Inc. 178,149–50; May 8.
Yeast cakes for culinary purposes. Reel Products Company. 171,104; May 8.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A/S De Norske Saltverker. (See Goldschmidt, Victor M., assignor.)
Abe, Kumakichi, Selma, Calif. Making edible malt and sprouts. 1,454,422; May 8.
Ackerman, Edward L., assignor to Joseph N. Smith & Company, Detroit, Mich. Automobile hood hinge. 1,454,257; May 8.
Adair, Thomas W., Humble, Tex. Combination drill and tool holder. 1,454,611; May 8.
Adams, Aaron M., Philadelphia, Pa. Cord gripping and securing device. 1,454,717; May 8.
Adams, Benjamin D., Galesburg, Ill. Automobile accelerator pedal. 1,454,258; May 8.
Adams, George W., San Antonio, Tex. Concrete mixer. 1,454,370; May 8.
Aeby, Louis, East Chicago, Ind., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Carburizing material and making same. 1,454,612; May 8.
Allard, J Frank, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,454,613; May 8.
Allen, Edward B., assignor to The Newtown, Conn., Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for sewing machines. 1,454,500; May 8.
Allen, Van Buren, Brooklyn, assignor of one-half to W. Klingberg and W. E. Klingberg, New York, N. Y. Prison lock. 1,454,145; May 8.
Althaus, Heinrich, and J. Fangmann, Dyersville, Iowa. Counter and register. 1,454,614; May 8.
American Atmos Corporation. (See Koehler, Frederick W., assignor.)
American Cyanamid Company. (See Cooper, Kenneth F., assignor.)
American Film Cleaning Machine Company. (See Cohen, Maxwell, assignor.)
American Manganese Steel Company. (See Plant, John W., assignor.)
Ampyr Manufacturing Company. (See Wilbur, Peter L., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Maynard, Albert E., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
Andersen, Carl A. J., Salt Lake City, Utah. Beet topper. 1,454,501; May 8.
Anderson, Adrien L., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. 1,454,307; May 8.
Andrew, George E. (See Robbins, Frank, assignor.)
Andrews, Roger W., Pittsburgh, assignor to Northern Equipment Company, Erie, Pa. Boiler-feed-water regulator. 1,454,146; May 8.
Angle, Glenn D., Dayton, Ohio. Adjustable coupling for magneto drives. 1,454,594; May 8.
Anthony, Marcus O., New York, N. Y., assignor to Continental Engineering Corporation, Omaha, Nebr. Rotary valve for internal-combustion engines. 1,454,423; May 8.
Anthony-Vail Tool & Machine Company. (See Vail, Charles H., assignor.)
Applegate, Daniel, Port Clinton, Ohio. Frictional gearing. 1,454,615; May 8.
Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Stone spreader. 1,454,308; May 8.
Arnold, Arthur A., Hartford, assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp. 1,454,530; May 8.
Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
Arnold, Edward E., Coventry, assignor to The Nitrogen Corporation, Providence, R. I. Purifying mineral oils. 1,454,593; May 8.
Arthurs, Irvin, Bells Landing, Pa. Dirigible headlight. 1,454,260; May 8.
Ashley, Arthur E., Boise, Idaho. Hood support. 1,454,595; May 8.
Associated Silver Company. (See Lasher, Thomas B., assignor.)
Austin, John S., administrator. (See Austin, Willis E.)
Austin, Willis E., deceased, Minneapolis, Minn.; J. S. Austin, administrator. Pneumatic action for musical instruments. 1,454,259; May 8.
Austrian, Ralph B., assignor to Union Radio Corporation, New York, N. Y. Rheostat. 1,454,030; May 8.
Automatic Machinery Company. (See Purcell, Benjamin H., assignor.)
Autosales Corporation. (See Wittenberg, Alexander, assignor.)
Aylward, D. E., et al. (See Barnstable, Edward S., assignor.)
Ayres, Elwood B. (See Schwartz, W. M., and Ayres.)
Ayres, Eugene E., jr., Chester, assignor to The Sharples Specialty Company, Philadelphia, Pa. Prevention of the formation of emulsions. 1,454,617; May 8.
Ayres, Eugene E., jr., Chester, assignor to The Sharples Specialty Company, Philadelphia, Pa. Resolving emulsions. 1,454,616; May 8.
Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Finishing machine. 1,454,031; May 8.
Bac-Lite Corporation, The. (See Ellithorpe, Gilbert S., assignor.)
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Esterification. 1,454,463; May 8.
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing high-grade esters. 1,454,462; May 8.
Bager, Svante R. W. M., W. Lehman, and F. C. Ruhloff, assignors to Bucyrus Company, South Milwaukee, Wis. Excavator front-end construction. 1,454,032; May 8.
Baird, Frank T., Blue Island, Ill. Charging rack. 1,454,033; May 8.
Baldwin, Elnora E., Rand, Colo. Hair curler. 1,454,718; May 8.
Baldwin, James V., et al. (See Van Hise, Lester E., assignor.)
Baldwin Locomotive Works, The. (See Bleibtreu, Hermann, assignor.)
Ball, Guy M., Spokane, Wash. Intake manifold for internal-combustion engines. 1,454,596; May 8.
Banks, Northrop, Lamar, Mo. Toilet attachment for automobiles. 1,454,618; May 8.
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Manufacturing Company. Holder and method of transferring stacked sundae cups from cup-stacking machines into cartons. 1,454,261; May 8.
Barbour, Samuel A., Paterson, N. J. Wound package. 1,454,573; May 8.
Bardons & Oliver. (See Hornberger, Earl J., assignor.)
Barnes, John A., West New Brighton, assignor to The Superheater Company, New York, N. Y. Boiler with superheater. 1,454,100; May 8.
Barnes, John S., assignor to Wire Products Corporation, Ann Arbor, Mich. Weaving wire fabrics. 1,454,619; May 8.
Barnes, Walter C., Chicago, Ill., and W. O. Barnes, Leominster, Mass. Instrument for measuring the height of liquids. 1,454,531; May 8.
Barnes, William O. (See Barnes, Walter C. and W. O.)
Barnstable, Edward S., Nokomis, assignor of one-half to D. E. Aylward and one-half to J. W. Busker, Livingston, Ill. Miner's carbide-lamp holder. 1,454,034; May 8.
Bartholomew, Harry G., London, England. Facsimile transmission system. 1,454,719; May 8.
Bashwiner, Charles, Jamaica, assignor to Fort Orange Paper Company, Castleton, N. Y. Display box. 1,454,424; May 8.
Bassaler, Pierre, assignor to Houbigant, Inc., New York, N. Y. Combined bottle and cap. Des. 62,315; May 8.
Bastiansen, Otto, assignor to Wearite Children's Underwear Manufacturing Corporation, Brooklyn, N. Y. Underwaist. 1,454,262; May 8.
Bauermeister, Fred E., Columbus, Ohio. Steering-wheel lock. 1,454,663; May 8.
Baunach, Charles G. (See Graebert, Rudolph R., assignor.)
Bean, Louis A., assignor to C. L. Senter, Denver, Colo. Automatically-controlled spotlight. 1,454,228; May 8.
Beatty, William E., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and means for secret signaling. 1,454,532; May 8.
Beaver Machine Tool Co. (See Pape, Herman G., assignor.)

Beck, Matthias A., Milwaukee, Wis., assignor to Milwaukee Electric Crane & Mfg. Co., Incorporated, Millbrook, N. Y. Safety-limit switch for electric hoists. 1,454,827; May 8.

Becker, Frederick W., and J. Lagner, Hyde Park, Mass. Illuminating device for automobiles. 1,454,465; May 8.

Becket, Frederick M., New York, and C. E. McQuigg, Flushing, N. Y., assignors to Electro Metallurgical Co. Chrome-iron sheet or article and making same. 1,454,464; May 8.

Begtrup, Frederick L. (See Knapp, E., Dickerson, and Begtrup.)

Belanger, Cyrille, and J. Caron, Quimby, Me. Railway construction. 1,454,101; May 8.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Motor vehicle. 1,454,557; May 8.

Beldon, Ben B. (See Hammett, Elbert A., assignor.)

Bell, Frederick J. T., Ashton-under-Lyne, England. Coping carriage. 1,454,206; May 8.

Bell, Thomas H., New York, and J. G. Schoenleber, Brooklyn, N. Y. Spring rim. 1,454,829; May 8.

Bell, Thomas H., and J. G. Schoenleber, New York, N. Y. Aeroplane. 1,454,824; May 8.

Bemis, George W., Worcester, Mass. Bellows valve. 1,454,207; May 8.

Bennett, Edward O. (See Winks, J. O., and Bennett.)

Bennett, Jackson A., Los Angeles, Calif. Adjustable drainage fitting for water-closets, etc. Re15,595; May 8.

Benoit and Mathieu. (See Charuest, P., and Duchesne, assignors.)

Benson, Bradley L. (See Winks, J. O., and Bennett, assignors.)

Berendes, Rudolf, and F. Lange, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkussen, near Cologne-on-the-Rhine, Germany. Pharmaceutical product. 1,454,372; May 8.

Berkeley, Laurence J., Youngstown, Ohio, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,454,309; May 8.

Berman, Theodore G., Antigo, Wis. Light support. 1,454,147; May 8.

Berry, George A., Modesto, Calif. Truss. 1,454,720; May 8.

Beskow, Bernhard M., Miami, Fla. Gulf-stroke register. 1,454,263; May 8.

Bethlehem Foundry & Machine Company. (See Lehman, John G., assignor.)

Bickel, Wilhelm, Stuttgart, Germany. Hydraulic oil press. 1,454,721; May 8.

Bifex Products Company. (See Ericson, Melvin R., assignor.)

Bing-Werke, vorm. Gebr. Bing A.-G. (See Weidlich, Kunz, assignor.)

Bishop, Eugene R. (See Whall, R. A., and Bishop.)

Bisset, David L., assignor to P. Lyall & Sons Construction Company, Limited, Montreal, Quebec, Canada. Chuck jaw. 1,454,148; May 8.

Bivins, Luther R. (See Patterson, J. L., and Bivins.)

Bleibtreu, Hermann, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Powdered-fuel burner. 1,454,664; May 8.

Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Bronching mechanism. 1,454,102; May 8.

Bobek, John, Trevorton, Pa. Knife lock. 1,454,665; May 8.

Bolander, John A., Berkeley, Calif. Banjo. 1,454,620; May 8.

Bonin, Clement F., Denmark, Wis. Woodworking machine. 1,454,264; May 8.

Bonney, John C. G., Brooklyn, N. Y. Window-washing apparatus. 1,454,373; May 8.

Boornem, John F., New York, N. Y. Wall construction. 1,454,310; May 8.

Boos, Orlando J., Los Angeles, Calif. Conveyer. 1,454,809; May 8.

Borcherdt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Concentration of minerals. 1,454,838; May 8.

Bosco, George B., Chicago, Ill. Form clamp. 1,454,502; May 8.

Boston Tool and Manufacturing Company. (See Reinhard, Frank A., assignor.)

Bouché, William F., Lancaster, N. Y., assignor to Gould Coupler Company. Dynamo-driving means. 1,454,035; May 8.

Boutin, Leo, New York, N. Y. Switch box. 1,454,722; May 8.

Bowen, Manley A., Fresno, Calif. Support for telephone receivers. 1,454,533; May 8.

Bown, Charles E., Dayton, Ohio. Grease gun. 1,454,574; May 8.

Boyce, Harrison H., Jericho, N. Y. Temperature-indicating system and apparatus for internal-combustion engines. 1,454,149; May 8.

Boyd, David C., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Chip distributor. 1,454,575; May 8.

Boyle, Charles H., New Haven, Conn. Seeding device for grapefruit. 1,454,311; May 8.

Brackett, Charles N., Memphis, Tenn. Filling device. 1,454,208; May 8.

Bradley, Arthur B. (See Carr, J., and Bradley.)

Bradshaw, Charles E., Waterbury, Conn. Buckle. 1,454,534; May 8.

Brandwood, John, and T., Bury, England. Bleaching, dyeing, or other finid treatment of yarns wound in the form of cheeses. 1,454,312; May 8.

Brandwood, Thomas. (See Brandwood, John and T.)

Brannigan, George T., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn. Buckle. 1,454,666; May 8.

Brennan, John S., Milwaukee, Wis. Burner-drum-lifting means. 1,454,265; May 8.

Brixey, Austin D., New York, N. Y., assignor to Ordinator Company, Inc. Adjustable shade support. 1,454,830; May 8.

Brockmiller, Frederick W. A., St. Petersburg, Fla. Ornamental fountain. 1,454,150; May 8.

Brown Company. (See Richter, George A., assignor.)

Brown, Haughton, Minneapolis, Minn. Broom. 1,454,831; May 8.

Brown, John C., Minneapolis, Minn. Insect trap. 1,454,667; May 8.

Brown, John W., Fort Wayne, Ind. Carburetor attachment. 1,454,503; May 8.

Brown, Richard H., New York, N. Y. Electric hair drier. 1,451,151; May 8.

Brown, Samuel C. B., Amite, La. Resilient tire construction. 1,454,036; May 8.

Brown Shoe Company Incorporated. (See Roblee, Robert A., assignor.)

Brown, Victor F. (See Powell, James F., assignor.)

Buck, Arthur W., St. Louis, Mo. Dental film mount. 1,454,152; May 8.

Bucyrus Company. (See Bagr, S. R. W. M., Lehman, and Ruhloff, assignors.)

Bugla, John, Saginaw, Mich. Stone-gathering machine. 1,454,668; May 8.

Bukow, Reinhold, Astoria, N. Y., assignor to Hardman, Peck & Co. Tracking device. 1,454,621; May 8.

Bullock, Edmund R., assignor to Eastman Kodak Company, Rochester, N. Y. Self-toning photographic emulsion. 1,454,209; May 8.

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 62,316; May 8.

Burch, George B., New York, N. Y., assignor to L. Stevens, Glen Ridge, N. J. Phonograph. 1,454,504; May 8.

Burns, Benjamin F., assignor of one-third to J. W. Harbaugh, Kokomo, Ind. Shock absorber. 1,454,535; May 8.

Burtis, William T., Glen Head, N. Y. Filter bed for sewage disposal. 1,454,723; May 8.

Busker, John W., et al. (See Barnstable, Edward S., assignor.)

Bussmann, Henry T., St. Louis, Mo. Cartridge fuse. 1,454,266; May 8.

Butchart, William A. (See Rork, C. E., and Sandberg, assignors.)

Butler, Arthur C., Boston, Mass. Mechanism for drawing or drafting fibrous material. 1,454,669; May 8.

Butters, Chas., & Co. Limited. (See Mennell, James L., assignor.)

Byerley, Albert G., Salem, Ohio. Power tractor. 1,454,698; May 8.

Byers, J. W., et al. (See Sumner, George W., assignor.)

Byrne, Ralph E., Kansas City, Mo. Vehicle bed. 1,454,037; May 8.

Cabretosa, Valentin M., Barcelona, Spain. Solid tire for wheels. 1,454,103; May 8.

Cairns, Henry W., Detroit, Mich. Changeable-sign device. 1,454,622; May 8.

Caldwell, Frederick W., Schenectady, N. Y. Calculator. 1,454,104; May 8.

Callo, Joseph G., New York, N. Y. Vehicle wheel. 1,454,466; May 8.

Cannady, Noah B., Eureka, Kans. Weather strip. 1,454,210; May 8.

Capps, William P., Shreveport, La. Gas-pressure regulator. 1,454,211; May 8.

Carder, Frederick, assignor to Corning Glass Works, Corning, N. Y. Vase. 62,317; May 8.

Carey, George W., Oshkosh, Nebr. Crust-breaking attachment for beet cultivators. 1,454,724; May 8.

Carleton, Charles R., Brooklyn, N. Y. Sprocket wheel 1,454,536; May 8.

Carlson, John W., assignor of one-half to H. S. Reed, Salt Lake City, Utah. Water motor. 1,454,212; May 8.

Caron, John. (See Belanger, C., and Caron.)

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,454,832; May 8.

Carr, John, Esher, and A. B. Bradley, Fulham Park, London, England. Preparing sugar. 1,454,153; May 8.

Carter, Donald M., trustee. (See Dahl, Conrad, assignor.)

Carter, George V. (See Carter, Reginald H., assignor.)

Carter-Ludwig Company, The. (See Carter, Willis M., assignor.)

Carter, Reginald H., assignor to G. V. Carter, Cleveland, Ohio. Electric testing device. 1,454,623; May 8.

Carter, Willis M., Jersey City, assignor to The Carter-Ludwig Company, Incorporated, Hoboken, N. J. Collapsible display device. 1,454,038; May 8.

Chaffin, William, Huntington, W. Va., assignor to H. B. Crowell and C. C. Crowell, Plattsburg, N. Y. Bottle or jar seal. 1,454,699; May 8.

Chalfant, Besse P. (See Chalfant, John R. M. and B. P.)

Chalfant, John R. M. and B. P., Morgantown, W. Va. Washboiler. 1,454,537; May 8.

Challis, Herbert D., Pittsburgh, and S. J. Williamson, Sewickley, Pa. Golf club. 1,454,267; May 8.

Chapman, Albert K., and G. A. Riggs, assignors to Eastman Kodak Company, Rochester, N. Y. Film clip. 1,454,213; May 8.

Chapman, Corwin C., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy signaling system. 1,454,624; May 8.

Chapman, Ira S., Venice, and C. E. Mort, Rialto, Calif. Radiator and producing same. 1,454,425; May 8.

Charleston Electrical Supply Company. (See Lewis, Henry C., assignor.)

Charuest, Pascal, and H. H. Duchesne, assignors to Benoit and Mathieu, Montreal, Quebec, Canada. Composition for and method of manufacturing sound amplifiers. 1,454,700; May 8.

Cherington, George T., Waukegan, Ill. Gear train for phonograph motors. 1,454,625; May 8.

Chevallier, Arnold L., London, England. Automatic firearm. 1,454,039; May 8.

Chicago Flexible Shaft Company. (See Aeby, Louis, assignor.)

Christen, John A., Roosevelt, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Multiple control system for multi-motored aircraft. 1,454,505; May 6.

Christenson, George, North Plainfield, N. J., assignor to Johns-Manville Incorporated. Process and apparatus for forming cup piston rings. 1,454,506; May 8.

Cimfl, Anton, Rice Lake, Wis. Attachment for graders. 1,454,725; May 8.

Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis and catalyst therefor. 1,454,590; May 8.

Clark, John T., Provo, Utah. Metal tie and fastener to secure rails thereon. 1,454,268; May 8.

Clarke, David S., Denver, Colo. Toy. 1,454,313; May 8.

Clarke, Frank, Waco, Tex. Envelope-closing means. 1,454,701; May 8.

Clarke, Thomas J., Jamestown, N. Y. Filing device. 1,454,702; May 8.

Clements, Everett G., Washington, D. C., assignor to The Willys-Overland Company, Toledo, Ohio. Transmission-lock mechanism for automobiles. 1,454,576; May 8.

Clements, Henry B., Somerville, Mass. Store-window attraction. 1,454,426; May 8.

Cleveland Air Engineering Company, The. (See Marx, Stephen J., assignor.)

Clough, James E. (See Fugina, A. R., Clough, and Stillwell.)

Clyde Iron Works. (See McGiffert, John R., assignor.)

Cobus, Lawrence J., Milwaukee, Wis. Controlling-member attachment. 1,454,314; May 8.

Cochran, John A., Pasadena, assignor to A. Swanfeldt, Los Angeles, Calif. Awning fixture. 1,454,374; May 8.

Coffey, Samuel A., and J. B. Ernsdorff, Yakima, Wash. Motor vehicle. 1,454,105; May 6.

Cohen, Maxwell, assignor to American Film Cleaning Machine Company, Brooklyn, N. Y. Film cleaning apparatus. 1,454,703; May 8.

Coleman, William N., jr., Culverton, Ga. Cutter and guard for mowers. 1,454,704; May 8.

Collins, A. M., Manufacturing Company. (See Gillbee, Manuel A. T., assignor.)

Collins, Henry J., Providence, R. I. Traffic signal for vehicles. 1,454,726; May 8.

Collis, O. D. (See Cushman, Everett B., assignor.)

Con-O-Lite Corporation. (See Willett, Walter E., assignor.)

Connecticut Web and Buckle Company, The. (See Brannigan, George T., assignor.)

Conte, James, Desplaines, Ill. Feeding mechanism. 1,454,507; May 8.

Continental Engineering Corporation. (See Anthony, Marcus O., assignor.)

Continuous Centrifugals Limited. (See Mauss, Wilhelm, assignor.)

Cooper, Kenneth F., Great Neck, assignor to American Cyanamid Company, New York, N. Y. Method of and apparatus for fumigating. 1,454,154; May 8.

Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. 1,454,040; May 8.

Corning Glass Works. (See Carder, Frederick, assignor.)

Cottrell, William F., Bristol, England. Spring cover for motor cars or other vehicles. 1,454,106; May 6.

Coty, Francois J. de S., Paris, France. Bottle. Des. 62,318; May 8.

Courtaulds Limited. (See Delph, Albert E., assignor.)

Cowdery, Warren H., et al. (See Melanowski, Leo, assignor.)

Cowley, Jay P., Tacoma, Wash. Autographic register. 1,454,810; May 8.

Cox, Jesse C. (See Dixon, T. K., Klein, Cox, and Ghent.)

Cramer, Stanley S., Camden, N. J. Bearing. 1,454,041; May 8.

Crawford, Charles S. (See Nelson, Adolph L., assignor.)

Crissey, Raymond E., Syracuse, N. Y. Tone-regulating device. 1,454,727; May 8.

Croft, Frank P., Philadelphia, Pa. Extracting oil. 1,454,705; May 8.

Crompton, James, and W. Gallagher, Salford, Manchester, England. Boiler and like furnace. 1,454,229; May 8.

Crooks, Eva M., Columbus, Ohio. Combination furniture. 1,454,467; May 8.

Crosby, Alfred D., Attleboro, Mass. Belt loop. 1,454,468; May 8.

Crosby, Lendall C. (See Lee, William E., assignor.)

Crowell, C. C., et al. (See Chaffin, William, assignors.)

Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Brace for lighting fixture. Des. 62,319; May 8.

Crowell, Harold B., et al. (See Chaffin, William, assignor.)

Crozier, John A., Knoxville, Iowa. Window bracket. 1,454,155; May 8.

Cruse, James M., Waco, Tex. Jar top-fastening device. 1,454,728; May 8.

Crutchfield, Blake. (See Shaffer, W. F., and Crutchfield.)

Czeczicszky, Louis. (See Swan, John B., assignor.)

Culpepper, Toy O., Toccoa, Ga. Machine for forming track terminals. 1,454,811; May 8.

Cunning, George A., Chicago, Ill. Gasket protector. 1,454,427; May 8.

Curran, Edward T., Detroit, Mich. Liquid-cooling radiator. 1,454,107; May 8.

Curtin, Andrew F., Medford, Mass. Outlet-valve-operating mechanism for flushing tanks. 1,454,428; May 8.

Curtis, Homer O., South Sandisfield, Mass. Antivacuum relief valve for heating systems. 1,454,729; May 8.

Curtis, Lewis E., assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Corner bead. 1,454,042; May 8.

Curtiss Aeroplane and Motor Corporation. (See Christen, John A., assignor.)

Cushman, Everett B., Topeka, Kans., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Radiator. 1,454,315; May 8.

Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)

Cutler-Hammer Mfg. Co. (See Wade, Henry N., assignor.)

Dague, George W., Oklahoma, Okla. Trolley-pole safety device. 1,454,706; May 8.

Dahl, Conrad, assignor to D. M. Carter, trustee, Chicago, Ill. Occupant-propelled vehicle. 1,454,626; May 8.

Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Electrical machine. 1,454,833; May 8.

Davies, David A., Cleveland, Ohio, assignor to Weaver Manufacturing Company, Springfield, Ill. Rim-handling device. 1,454,627; May 8.

Davis, Clarence M., Cape May, N. J., assignor, by mesne assignments, to A. Mecky Company. Coaster brake. 1,454,707; May 8.

Davis, William L., Dayton, Ohio. Radiator cap. Des. 62,320; May 8.

Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)

Dean, Reginald S., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Fused salt bath for heating steel in hardening. 1,454,214; May 8.

Deere & Company. (See Wilson, Frederick D., assignor.)

Delbon, Frank G., Brooklyn, N. Y. Shoe heel. Des. 62,321; May 8.

Delph, Albert E., Wokingham, England, assignor to Courtaulds Limited, London, England. Manufacture of carbon bisulphide. 1,454,708; May 8.

De Lukacsevics, Charles, Newark, N. J., and J. J. Wittal, assignors, by mesne assignments, to J. Winter, New York, N. Y. Carburetor. 1,454,730; May 8.

Dennison, Lawrence, Brookfield, assignor to General Can Company, Chicago, Ill. Sanitary can-closing machine. 1,454,375; May 8.

Detroit Insulated Wire Company. (See Rissman, Paul, assignor.)

Diaz, Francisco, Winslow, Ariz. Film developer. 1,454,215; May 8.

Dickerson, John K. (See Knapp, E., Dickerson, and Begtrup.)

Dickey, Walter S. (See Flournoy, Samuel I., assignor.)

Dickinson, Fredrick S., New York, N. Y., and J. Spinger, Atlantic Highlands, N. J.; said Springer assignor to said Dickinson. Pneumatic tire. 1,454,460; May 8.

Di Natale, Joseph J., New York, N. Y. Button, emblem, badge, pin, or similar article. Des. 62,322; May 8.

Dincognito, Guy, Chicago, Ill. Wire joint. 1,454,156; May 8.

Ditcham, William T., Twickenham, England, assignor to Radio Corporation of America, New York, N. Y. Wireless transmitter. 1,454,598; May 8.

Dixon Development Company. (See Dixon, T. K., Klein, Cox, and Ghent, assignors.)

Dixon, Thomas K., A. Klein, J. C. Cox, and G. R. Ghent, assignors to Dixon Development Company, Houston, Tex. Transfer adding and totaling machine. 1,454,108; May 8.

Dodge, William L., Dover, N. H. Envelope. 1,454,043; May 8.

Dodge, William L., Dover, N. H. Photographic film. 1,454,044; May 8.

Dodge, William L., Dover, N. H. Camera. 1,454,045; May 8.

Donley Brothers Company, The. (See Donley, Ernest F., assignor.)
Donley, Ernest F., assignor to The Donley Brothers Company, Cleveland, Ohio. Fireplace-damper controller. 1,454,538; May 8.
Donovan, Timothy, Portsmouth, N. H., assignor to Morley Button Manufacturing Company, Boston, Mass. Shank button. 1,454,046; May 8.
Doty, Giles A., Davenport, Iowa. Nonslip guard for automobile tires. 1,454,109; May 8.
Douglas, George F., New York, N. Y. Artists' sketch box. 1,454,709; May 8.
Dover, Dennis L., Anderson, S. C. Clearer for the middle steel rollers on spinning frames. 1,454,316; May 8.
Draggoo, George W. (See Palmer, P. L., and Draggoo.)
Draper Corporation. (See Leighton, Charles M. H., assignor.)
Draper Corporation. (See Snow, Isaac, assignor.)
Draper, Israel M. (See Vawter, John M., assignor.)
Dresser, Frank G., Providence, R. I. Dental floss dispenser. 1,454,429; May 8.
Drinkwater, C. M., et al. (See Drinkwater, Charles M., assignor.)
Drinkwater, Charles M., Kokomo, Ind., assignor, by mesne assignments, to The Mechanical Development Company, and C. M. Drinkwater, New Rochelle, N. Y. Truck. 1,454,710; May 8.
Duchesne, Henri H. (See Charuest, P., and Duchesne.)
Duby, John F., Boston, Mass., assignor to Weaver Manufacturing Company, Springfield, Ill. Testing apparatus for determining nonalignment of vehicle wheels. 1,454,628; May 8.
Dudley, Fred H., Lincoln, Nebr. Auto camp bed. 1,454,670; May 8.
Dunlea, John M., Los Angeles, Calif. Headlight. 1,454,671; May 8.
Du Pont, E. I., de Nemours & Company. (See Haon, Harry J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Skilling, John M., assignor.)
Durell, George B., et al. (See Melanowski, Leo, assignor.)
Dussault, Frederic J., Butte, Mont. Excavating machine. 1,454,711; May 8.
Eagle Iron Works. (See Powell, Joseph M., assignor.)
Eastman Kodak Company. (See Bullock, Edmund R., assignor.)
Eastman Kodak Company. (See Chapman, A. K., and Riggs, assignors.)
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Jones, John G., assignor.)
Eastman Kodak Company. (See Sturgis, Charles E., assignor.)
Eastman Kodak Company. (See Warren, Frank S., assignor.)
Eaton, James M., et al., trustees. (See Tomlinson, E., and Gifford, assignors.)
Eberhardt, Henry J., assignor to Newark Gear Cutting Machine Co. Newark, N. J. Cutting gear wheels. 1,454,430; May 8.
Eberhardt, Nicholas S., and A. E. Hackett. Milwaukee, Wis. Mule bank. 1,454,539; May 8.
Eberly, Weir B., Mechanicsburg, Pa. Alarm for automobiles. 1,454,216; May 8.
Eckert, John, Milwaukee, Wis. Gear wheel and manufacturing the same. 1,454,508; May 8.
Economy Cooker Company. (See Slocomb, John T., assignor.)
Edgar Steel Seal & Mfg. Co., The. (See Edgar, William K., assignor.)
Edgar, William K., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Car seal. 1,454,217; May 8.
Edgecombe, Edward F., jr., assignor to Meier-Gaynor Mfg. Co., Indianapolis, Ind. Bottle capper. 1,454,540; May 8.
Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonographic recording and reproducing system. 1,454,157; May 8.
Eidmann, Frank L., assignor to J. L. Wyckoff, E. N. White, and G. F. Jenks, trustees, Holyoke, Mass. Elevating truck. 1,454,431; May 8.
Eisele, Louis F., Philadelphia, Pa. Fireplace guard screen. 1,454,269; May 8.
Electric Service Supplies Company. (See Darling, Lewis A., assignor.)
Electro Metallurgical Co. (See Becket, F. M., and McQuigg, assignors.)
Elliott, Harold F., Palo Alto, assignor to Taylor, San Francisco, Calif. Radiotelegraphy. 1,454,630; May 8.
Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy signaling system. 1,454,629; May 8.
Ellis, Julius D., Fulton, N. Y. Nut lock. 1,454,712; May 8.
Ellithorpe, Gilbert S., Chicago, Ill., assignor to The Bac-Lite Corporation. Tail light. 1,454,631; May 8.
Elverson, Arthur J. M., Reading, assignor to Herbert Kennedy & Company Limited, London, England. Stroboscopic apparatus. 1,454,713; May 8.
Emery, Wilber, Monroe County, Mich., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum mechanism. 1,454,047; May 8.
Engebrigtson, James H.) (See Garritt, W. A., and Engebrigtson.)
Erickson, Amos, Keota, Colo. Animal yoke. 1,454,317; May 8.
Erickson, Carl O., St. Paul, Minn. Preheating device. 1,454,318; May 8.
Ericson, Melvin B., Evanston, Ill., assignor, by mesne assignments, to Bifex Products Company. Automobile bumper. 1,454,270; May 8.
Ericsson, Erik E. (See Lauren, Lars W., assignor.)
Ernsdorff, John B. (See Coffey, S. A., and Ernsdorff.)
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Means for ringing over multiplex transmission channels. 1,454,158; May 8.
Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Means for ringing over multiplex transmission channels. 1,454,159; May 8.
Esperson, Niels, assignor to Reed Roller Bit Company, Houston, Tex. Method of and apparatus for sidetracking in deep-well drilling. 1,454,048; May 8.
Evelyn, Harry C., Chicago, Ill. Bolt-locking device. 1,454,271; May 8.
Ewinger, William O., Burlington, Iowa. Natural water-cooling device. 1,454,470; May 8.
Eyster, James P., Indianapolis, Ind., assignor, by means assignments, to The Willys-Overland Company, Toledo, Ohio. Attachment for seat covers. 1,454,577; May 8.
Ezell, Lemuel M., Nashville, Tenn. Coin-controlled dispensing machine. 1,454,272; May 8.
Falvey, Eliza E., Fond du Lac, Wis. Garment. 1,454,541; May 8.
Fangmann, Johan. (See Althaus, H., and Fangmann.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Berendes, R., and Lange, assignors.)
Farber, Louis, Yonkers, N. Y. Holder for spectacles, eyeglasses, and the like. Des. 62,323; May 8.
Farbwerke vorm. Meister Lucius & Brüning. (See Kolle, Wilhelm, assignor.)
Farnum, Leon M., Lansdowne, Pa., assignor to The S. S. White Dental Manufacturing Company. Artificial tooth. 1,454,632; May 8.
Fauser, Gustave M., Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,324; May 8.
Fauser, Gustave M., Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,325; May 8.
Fauser, Gustave M., Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,326; May 8.
Fauser, Gustave M., Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,327; May 8.
Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. 1,454,432; May 8.
Fedders Manufacturing Company. (See Fedders, John M., assignor.)
Fétaz, Henry, Paris, France. Machine for the manufacture of bread rolls. 1,454,672; May 8.
Feuillette, Emile, Boulogne-sur-Seine, France. House construction. 1,454,110; May 8.
Field, Millard F., Winthrop, Mass. Detecting mechanism. 1,454,111; May 8.
Finocchiaro, Carlo U., New York, N. Y. Index for filing devices. 1,454,714; May 8.
Firl, Milton, Meyersdale, Pa. Trolley guard. 1,454,673; May 8.
Fisher, Henry A., assignor of one-half to S. H. Foxall, Cleveland, Ohio. Portable power hammer. 1,454,633; May 8.
Fisher, John A., Sandusky, Ohio. Amusement device. 1,454,273; May 8.
Fitzpatrick, Charles H. (See Fitzpatrick, Jeremiah and C. H.)
Fitzpatrick, Jeremiah, Brockton, and C. H. Fitzpatrick, North Abington, Mass. Re-forming lasts. 1,454,160; May 8.
Fitz Patrick, Thomas, Cuyahoga Falls, Ohio. Garter. 1,454,579; May 8.
Flournoy, Samuel I., assignor to W. S. Dickey, Kansas City, Mo. Meter box. 1,454,674; May 8.
Foamite Firefoam Company. (See Witter, Willis D., assignor.)
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic optical system. 1,454,218; May 8.
Fontaine, Charles A., Paris, France. Combined comb and hair cutter. 1,454,715; May 8.
Forster, Eugene. (See Riddell, S. F. J., and Forster.)
Fort Orange Paper Company. (See Bashwiner, Charles, assignor.)
Foss, Walter L., Windom, Minn. Grass-digging implement. 1,454,580; May 8.
Fournier, Louis, and G. Mang, Paris, France. Computing machine. 1,454,716; May 8.
Foxall, Sydney H. (See Fisher, Henry A., assignor.)
Francis, William H., Cherryvale, Kans. Surfacing machine. 1,454,731; May 8.

Franklin, William H., jr., Merrimac, Mass. Gas-cock lock. 1,454,433; May 8.
Frederick, Louis T., Akron, Ohio. Machine for and method of making mica boards. 1,454,274; May 8.
Fried. Krupp Aktiengesellschaft. (See Reichard, Fritz, assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Friden, Carl M. F., Piedmont, assignor to Marchant Calculating Machine Company, Oakland, Calif. Calculating machine. 1,454,275; May 8.
Friedt, David M., Dundee, Ohio. Attachment for scythes. 1,454,732; May 8.
Fudge, Raymond R., Fort Worth, Tex. Indicating device for automobile radiators. 1,454,230; May 8.
Fueller, Howard C., Jacksonville, Fla. Treating vegetable fiber. 1,454,581; May 8.
Fugina, Arthur R., Louisville, J. E. Clough, La Grange, and W. H. Stilwell, Paris, Ky. Railway-rail support. 1,454,276; May 8.
Furlong, Martin J., Houston, Tex. Locomotive. 1,454,161; May 8.
Furlong, Martin J., Houston, Tex. Vehicle. 1,454,162; May 8.
Furnival, John M. (See Van de Velde, H. R. C., and Furnival.)
Gains, Harold C., London, England. Diaphragm. 1,454,163; May 8.
Galion Iron Works & Mfg. Co. (See Arndt, Franklin E., assignor.)
Galion Iron Works & Mfg. Co., The. (See Boyd, David C., assignor.)
Gallagher, William. (See Crompton, J., and Gallagher.)
Gantvoort, John M., Beacon, N. Y. Baker's installation. 1,454,675; May 8.
Gardner, Ernest G., Brooklyn, N. Y. Means for sinking concrete piles. 1,454,434; May 8.
Garritt, Wilbur A., and J. H. Engebrigtson, Sioux City, Iowa. Sign-displaying device. 1,454,582; May 8.
Garside, Edmund, Darlington, assignor to J. H. Morgan, Sheffield, and The Skerne Works Limited, Darlington, England, and himself. Divided driving pulley and the like of sheet-metal construction. 1,454,435; May 8.
Gatchell, Frederick D., New York, N. Y., assignor to Texas Company. Easy-pour oil can. 1,454,436; May 8.
Geer, Maurice F., Irondequoit, assignor to General Railway Signal Company, Rochester, N. Y. Brake-controlling mechanism for automatic train-control systems. 1,454,231; May 8.
Geils, John C., Bensenville, Ill. Towline hitch. 1,454,437; May 8.
General Can Company. (See Dennison, Lawrence, assignor.)
General Motors Corporation. (See Krotz, Alvaro S., assignor.)
General Motors Company. (See Short, Charles R., assignor.)
General Railway Signal Company. (See Geer, Maurice F., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
Gentile, Lawrence, Melrose, assignor to Lester P. Winchenbaugh Company, Boston, Mass. Paper-treating machine. 1,454,376; May 8.
Gentile, Lawrence. (See Winchenbaugh, L., and Gentile.)
Genung, Charles E., Chicago, Ill., assignor to Morris & Company. Upholstery material. 1,453,049; May 8.
Gerlach, Paul, Saskatoon, Saskatchewan, Canada. Bundle-carrying attachment for grain harvesters. 1,454,471; May 8.
Ghent, George R. (See Dixon, T. K., Klein, Cox, and Ghent.)
Giddings & Lewis Manufacturing Company. (See Schellenbach, William L., assignor.)
Gifford, Richard T. (See Tomlinson, E., and Gifford.)
Gilbert, Charles E., Chicago, Ill. Automobile seat. 1,454,232; May 8.
Gillbee, Manuel A. T., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Manufacturing ornamental paper. 1,454,676; May 8.
Gilmore, Benjamin V., Gauley Bridge, assignor to J. W. Graham, J. A. Graham, and W. S. Peck, Hinton, W. Va. Hinge joint for convertible roadster sections. 1,454,784; May 8.
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Dump-car door. 1,454,164; May 8.
Girtanner, Alexander, New York, N. Y. Ash conveyer. 1,454,277; May 8.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,454,634; May 8.
Goedicke, Richard, Berlin-Schoneberg, Germany. Ozone-generating apparatus. 1,454,219; May 8.
Gold Car Heating & Lighting Compny. (See Gold, Edward E., assignor.)
Gold, Edward E., New York, assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y. Thermostatic electric control for heating systems. 1,454,635; May 8.
Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hairpin container. 1,454,636; May 8.
Goldschmidt, Victor M., Christiania, assignor to A/S De Norske Saltverker, Bergen, Norway. Producing magnesium nitrate. 1,454,583; May 8.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Kepler, Irwin F., assignor.)
Goodrich, B. F., Company, The. (See Lowe, Silas C., assignor.)
Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
Gordan Machine Company. (See Lane, J. D., and Macnaughtan, assignors.)
Gösser, Adolf, administrator. (See Gösser, Richard.)
Gösser, Richard, deceased, by A. Gösser, administrator, Munich, assignor, by mesne assignments, to the Firm "Stachelband" G. m. b. H., München-Pasing, Germany. Barbed wire and the like. 1,454,584; May 8.
Gould Coupler Company. (See Bouché, William F., assignor.)
Gove, Charlotte M., administratrix. (See Gove, Henry H.)
Gove, Henry H., deceased, Biddeford, assignor of one-half to H. R. Whitehead, Saco, Me.; C. M. Gove, administratrix. Thread tension device. 1,454,637; May 8.
Grady, Lanson T., Victor, Colo. Transformer. 1,454,638; May 8.
Graebert, Rudolph R., assignor, by mesne assignments, to B. Meyers, Chicago, Ill. Lock for automobile steering wheels. 1,454,233; May 8.
Graebert, Rudolph R., assignor to C. G. Baunach, Chicago, Ill. Automobile steering wheel. 1,454,234; May 8.
Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Brick machine. 1,454,165; May 8.
Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Sand-feeding mechanism. 1,454,438; May 8.
Graham, James A., et al. (See Gilmore, Benjamin V., assignor.)
Graham, John W., et al. (See Gilmore, Benjamin V., assignor.)
Grant, John C., Barnes, London, England. Elevating liquids. 1,454,377; May 8.
Graves, Rebecca, Spokane, Wash. Bath support. 1,454,112; May 8.
Gray, Thomas, et al. (See Sumner, George W., assignor.)
Green, Charles F., assignor to The Willys-Overland Co., Toledo, Ohio. Storm shield. 1,454,585; May 8.
Griffin, Hugh A., Lindsay, Calif. Furnace for steam boilers for burning residual molasses. 1,454,586; May 8.
Griffith, Abner E., Duluth, Minn. Roller bearing. 1,454,785; May 8.
Grilli, Angelo, Milwaukee, Wis. Screw propeller. 1,454,542; May 8.
Grimshaw, William, Glenellyn, Ill. Making automatic sprinklers. 1,454,235; May 8.
Griscom Russell Company, The. (See Jones, Russell C., assignor.)
Grissinger, Cloyd A., Mount Union, Pa. Orchestra-leader's picture reflector. 1,454,733; May 8.
Gruenhagen, William H., St. Paul, Minn. Wire trolling-line and twine winder. 1,454,050; May 8.
Gruner, William C., Chicago, Ill. Automobile hook. 1,454,734; May 8.
Guenther, Henry L., Los Angeles, Calif. Can-cap feed. 1,454,383; May 8.
Guild, Waldo J., assignor to Heald Machine Company, Worcester, Mass. Eccentric feeding mechanism. 1,454,472; May 8.
Guillaume, Charles E., Sevres, France, assignor to Société des Fabriques de Spiraux Réunies, Petit-Saconnex, Switzerland. Compensating balance spring for chronometers and watches. 1,454,473; May 8.
Gunn, Walter A., assignor to Wright Manufacturing Company, Lisbon, Ohio. Coupling. 1,454,587; May 8.
Gunnell, George H., Morristown, N. J. Moistener for cigars. 1,454,236; May 8.
Hackett, Arthur E. (See Eberhardt, N. S., and Hackett.)
Hagerstrom, John A., Cranford, N. J. Cover grip. 1,454,237; May 8.
Haines, Thomas K. P., Philadelphia, Pa. Compartment box. 1,454,639; May 8.
Hall, Ipbus H., Toronto, Ontario, Canada. Machine for homogeneously mixing and straining egg melange. 1,454,378; May 8.
Hall, James C., Worcester, Mass. Cover-releasing device. 1,454,220; May 8.
Hamel Shoe Machinery Company. (See Reed, James H., assignor.)
Hamlin, John E., Weed, Calif. Tree-felling machine. 1,454,735; May 8.
Hamer, Augustus M., Goose Creek, Tex. Tongs. 1,454,319; May 8.
Hammett, Elbert A., assignor of one-half to B. B. Beldon, Kansas City, Mo. Piston-dressing machine. 1,454,834; May 8.
Hamilton, Clarence A., Brooklyn, N. Y., and B. F. Noyes, Bayonne, N. J. Oil filter. 1,454,113; May 8.
Hamme, Lee F. (See Harris, W. T., Hamme, and Hoofnagle.)
Haon, Harry J., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Measuring and feeding device. 1,454,439; May 8.

Harbaugh, John W. (See Burns, Benjamin F., assignor.)
Harding, Henry O., assignor to Washburn-Crosby Company, Minneapolis, Minn. Automatic controlling mechanism for flour-packing machines. 1,454,278; May 8.
Hardman, Peck & Co. (See Bukow, Reinhold, assignor.)
Harrell, William T., Wichita, Kans. Electric water sterilizer and purifier. 1,454,736; May 8.
Harris, William T., Virginia, Va., L. F. Hamme, Oxford, N. C., and W. T. Hoofnagle, Glen Ridge, N. J. Cotton-picking machine. 1,454,737; May 8.
Harrison, Charles S. (See Webb, F. I., and Harrison.)
Harvey, George L., Chicago, Ill. Draft rigging. 1,454,509; May 8.
Hawie, Michael, Bridgeport, Conn. Rustless buckle. 1,454,440; May 8.
Hawk, Geary E., Camden, N. J. Washing machine. 1,454,384; May 8.
Hayes, James R., St. Joseph, Mich. Loaf catcher for bread-wrapping machines. 1,454,279; May 8.
Heald Machine Company. (See Guild, Waldo J., assignor.)
Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Insulation-smoothing device. 1,454,166; May 8.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. 1,454,167; May 8.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Forged-steel fulcrum. 1,454,168; May 8.
Heiter, Henry L., New York, N. Y. Ornamental bottle top. 1,454,510; May 8.
Hellebrand, Anthony, Philadelphia, Pa. Vehicle signal. 1,454,114; May 8.
Henrikson, Frank W., Mulberry, Kans. Mine-car wheel. 1,454,640; May 8.
Henrikson, Frank W., Mulberry, Kans. Spray nozzle. 1,454,280; May 8.
Hepperle, William J., Bloomfield, N. J. Carrier-spacing device for pneumatic-dispatch systems. 1,454,169; May 8.
Herbert Kennedy & Company Limited. (See Elverson, Arthur J. H., assignor.)
Hermann, Louis, Chicago, Ill. Massage vibrator. 1,454,511; May 8.
Hess, Henry K., Syracuse, N. Y. Tone regulator for phonographs. 1,454,441; May 8.
Heulings, Samuel M., Haddonfield, N. J. Case-emptying machine. 1,454,051; May 8.
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hicks, Linzy, Omaha, Nebr. Hairdressing device. 1,454,641; May 8.
Higham, John, Los Angeles, Calif. Combined stove and grill. 1,454,385; May 8.
Higham, John, Los Angeles, Calif. Folding table. 1,454,386; May 8.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machine. 1,454,221; May 8.
Hill, N. N., Brass Co., The. (See Kidney, Josiah R., assignor.)
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 62,328; May 8.
Hilton, Thomas, Walpole, Mass. Mud guard. 1,454,738; May 8.
Hindahl, David, assignor to National Dump Car Company, Chicago, Ill. Dump-car-door-latching mechanism. 1,454,786; May 8.
Hiscock, Herbert. (See Westbury, A. J. G., and Hiscock.)
Hitchcock, William A. (See Perrault, J. A., and Hitchcock.)
Hoffmann, Genevieve B. (See Hoffmann, Harry G. and G. B.)
Hoffmann, Harry G. and G. B., Oakland, Calif. Hair waver. 1,454,281; May 8.
Hoglund, Carl H., Duluth, Minn. Concrete-block-molding machine. 1,454,642; May 8.
Holbrook, Henry E., Boston, Mass. Detachable-wheel mounting. 1,454,282; May 8.
Holden, Sheridan F., Paterson, N. J. Motor-driven vehicle. 1,454,115; May 8.
Holland, Clifton B., Nashville, Tenn. Coffee cartridge. 1,454,739; May 8.
Hollander, Marcus, Brooklyn, N. Y. Aerial navigating apparatus. 1,454,283; May 8.
Holmes, Alfred E., assignor to W. H. Plunkett, Chicago, Ill. Liquid dispenser. 1,454,284; May 8.
Holmquist, John T., Chicago, Ill. Accelerator for automobile engines. 1,454,512; May 8.
Hood Rubber Company. (See Perrault, Joseph E., assignor.)
Hoofnagle, William T. (See Harris, W. T., Hamme, and Hoofnagle.)
Hornberger, Earl J., Cleveland Heights, assignor to Bardons & Oliver, Cleveland, Ohio. Feeding and chucking mechanism for machine tools. 1,454,642; May 8.
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Fabric measuring and cost computing machine. 1,454,285; May 8.
Houbigant, Inc. (See Brassler, Pierre, assignor.)
Houchin, Ernest A., New York, N. Y. Candle-forming machine. 1,454,052; May 8.
Houston Pump & Supply Company. (See Thomas, Avery H., assignor.)
Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Feeder for ingot molds. 1,454,740; May 8.
Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Hot top for multiple casting of metal ingots. 1,454,741; May 8.
Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Reversible feeder for ingot molds. 1,454,742; May 8.
Howard, Frank A., Swissvale Borough, Pa. Spark plug. 1,454,442; May 8.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,454,513; May 8.
Howell, Charles A., Ann Arbor, Mich. Runner. 1,454,514; May 8.
Howell, Percy F., et al. (See Van Hise, Lester E., assignor.)
Howlett, Isaac C., Bangs, Tex. Bag-cutting machine. 1,454,743; May 8.
Huebner, Otto E., Richmond Hill, N. Y. Potential indicator. 1,454,474; May 8.
Hughes, John E., Utica, N. Y. Optical pliers. 1,454,475; May 8.
Hull, Samuel M. (See Reaser, J. W., Hull, and Osborne.)
Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
Humphreys, William R., et al. (See Wingo, Sara H., assignor.)
Huston, Charles L., Coatesville, Pa. Inspection lift. 1,454,677; May 8.
Hyatt, Frank S., Brooklyn, N. Y. Closure for containers. 1,454,170; May 8.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Indianapolis Manufacturing Company. (See Norris, John E., assignor.)
Ingersoll-Rand Company. (See Parsons, Frederick W., assignor.)
Ingledue, William I., Melbourne, Iowa. Steerable vehicle light. 1,454,379; May 8.
Inland Steel Company. (See Murton, Crawford B., assignor.)
International Coal Products Corporation. (See Richardson, Charles E., assignor.)
International Precipitation Company. (See Weiskoff, Charles H., assignor.)
International-Siegwartbalken-Gesellschaft. (See Smreker, Oscar, assignor.)
Jackson, James M., Parkersburg, W. Va. Spring-lubricating device. 1,454,116; May 8.
Jamieson, Bertrand G., Brookfield, Ill. Electric-switchhouse construction. 1,454,744; May 8.
Janes, Archibald G., Fitzgerald, Ga. Elevator brake. 1,454,745; May 8.
Jenkins Bros. (See Yardley, Farnham, assignor.)
Jenkins, Thomas B., assignor to Jenkins Vulcan Spring Company, Richmond, Ind. Tire tool. 1,454,320; May 8.
Jenkins Vulcan Spring Company. (See Jenkins, Thomas B., assignor.)
Jenks, George F., et al., trustees. (See Eidmann, Frank L., assignor.)
Johns-Mansville Incorporated. (See Christenson, George, assignor.)
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Colvin L., St. Louis, Mo., assignor to Johnson Automobile Lock Co. Gear-shift lever and dust cap. 1,454,600; May 8.
Johnson, Gustaf I., Malden, Mass. Flash light. Des. 62,329; May 8.
Johnson, Nels, Chicago, Ill. Turbine locomotive. 1,454,286; May 8.
Jones, Charles M., assignor to Jones National Automobile Registration System, Inc., Louisville, Ky. Automobile title-identifying, theft discouraging and detecting means. 1,454,746; May 8.
Jones, Erwin R., Columbus, Ohio. Twine cutter. 1,454,543; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,812; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,813; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,814; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,815; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,816; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,817; May 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,454,818; May 8.
Jones National Automobile Registration System Inc. (See Jones, Charles M., assignor.)

Jones, Roy E., Storrs, Conn. Water fountain for chickens. 1,454,171; May 8.
Jones, Russell C., Bronxville, assignor to The Griscom Russell Company, New York, N. Y. Oil cooler. 1,454,053; May 8.
Jones, William H., and M. Kinnebrew, Fellows, Calif. Combination casing cutter, overshot, and milling tool. 1,454,819; May 8.
Joyce, John L., Columbus, Ohio. Mop. 1,454,544; May 8.
Julien, Napoleon P., Springfield, Mass. Elevator. 1,454,117; May 8.
Junkers, Hugo, Dessau, Germany. Mixing valve. 1,454,172; May 8.
Kaiser, William S., Milwaukee, Wis. Doll. Des. 62,330; May 8.
Kaneen, Harry B., Papineau, Ill. Typewriter attachment. 1,454,588; May 8.
Kanner, Samuel. (See Pollak, Abraham, assignor.)
Karsack, Paul, Cleveland, Ohio. Cover for boilers. 1,454,118; May 8.
Kasdan, Nathan, New York, N. Y. Vanity bag and the like. 1,454,515; May 8.
Kaufman, Adam W., Milwaukee, Wis. Friction-grip choke control. 1,454,238; May 8.
Kawamura, Gozo, New York, N. Y. Nail puller. 1,454,239; May 8.
Keiner, Stephen, Los Angeles, Calif. Gaming appliance. 1,454,173; May 8.
Kennedy, Ernest N., London, England. Device for use with safety-razor blades. 1,454,443; May 8.
Kenyon, John J., Detroit, Mich. Washing machine. 1,454,174; May 8.
Kepler, Irwin F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Antiskid device for tires. 1,454,054; May 8.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Electric speedometer. 1,454,644; May 8.
Kidney, Josiah R., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Telephone toy. 1,454,287; May 8.
King, James S., assignor of one-half to Charles Knight & Company, Limited, London, England. Means for securing books in detachable covers. 1,454,288; May 8.
Kinghorn, John R. (See Nadler, A., and Kinghorn.)
Kinnebrew, Marcus. (See Jones, W. H., and Kinnebrew.)
Klamroth, Wilfried, New York, N. Y. Razor-blade holder. 1,454,055; May 8.
Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Lightning arrester. 1,454,289; May 8.
Klein, Alexander. (See Dixon, T. K., Klein, Cox, and Ghent.)
Klingberg, Wesley E., et al. (See Allen, Van Buren, assignor.)
Klingberg, Willgott, et al. (See Allen, Van Buren, assignor.)
Knaack, Hermann R., Chicago, Ill. Caster. 1,454,119; May 8.
Knapp, Edgar, J. K. Dickerson, Middleport, N. Y., and F. L. Begtrup, Louisville, Ky., assignors to Niagara Sprayer Co., Middleport, N. Y. Apparatus for manufacturing flowers of sulphur. 1,454,747; May 8.
Kneeland, Oscar A., Minneapolis, assignor of one-half to V. T. Neander, St. Paul, Minn. Grain-door fastener. 1,454,240; May 8.
Knight, Charles, & Company Limited. (See King, James S., assignor.)
Koch, Henry J., Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me. Making wirebound boxes. 1,454,517; May 8.
Koch, Henry J., Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me. Wirebound-box machine. 1,454,518; May 8.
Kochmit, Edward J., Cleveland, Ohio. Dental casting apparatus. 1,454,290; May 8.
Kodama, Hisano. (See Kodama, Seizo, assignor.)
Kodama, Seizo, assignor of one-half to H. Kodama, San Francisco, Calif. Incense burner. Des. 62,331; May 8.
Koehler, Frederick W., assignor to American Atmos Corporation, Pittsburgh, Pa. Breathing apparatus. 1,454,645; May 8.
Kolle, Wilhelm, Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany. Preparing arseno compounds which are stable in solution. 1,454,748; May 8.
Kollmer, Dominik, Chicago, Ill. Apartment house. 1,454,241; May 8.
Komnenus, Angelos, New York, N. Y., assignor of one-half to E. O'Day, Deal, N. J. Wrench. 1,454,444; May 8.
Kovar, John R. (See Kovar, Joseph J. and J. R.)
Kovar, Joseph J. and J. R., Owatonna, Minn.; said Joseph J. Kovar assignor to said J. R. Kavor. Potato digger. 1,454,175; May 8.
Kruckenberg, Frans F., Heidelberg, assignor to Luftfahrzeugbau Schütte-Lanz, Mannheim-Rheinau, Germany. Ballast bag for air vessels. 1,454,589; May 8.
Krueger, Walter, assignor to H. O. Rugh, Chicago, Ill. Pocket mirror. 1,454,678; May 8.
Kruesbeld, Henry, assignor to The Perfection Electric Products Co., New Washington, Ohio. Electric toaster. 1,454,056; May 8.
Kribben, Ludwig, et al. (See Wesolik, Joseph, assignor.)
Krotz, Alvaro S., Janesville, Wis., assignor, by mesne assignments, to General Motors Corporation. Double-row cultivator. 1,454,120; May 8.
Kulczycki, Joseph, Chicago, Ill. Curtain-supporting attachment for window frames. 1,454,679; May 8.
Kunditz, Theodor, Company, The. (See Winkel, Christopher, assignor.)
Kurtz, Frank J., Marshalltown, Iowa. Top frame and deck for automobiles. 1,454,321; May 8.
Kuttner, Julius, New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Composite roller bearing. 1,454,057; May 8.
La Bombard, Léon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Method and machine for banding articles in transit. 1,454,545; May 8.
Lacavalerie, Sebastien, New York, N. Y. Garter. 1,454,476; May 8.
Ladin, Abe N., Ironwood, Mich. Convertible-baby-carriage runner. 1,454,749; May 8.
Lagner, Joseph. (See Becker, F. W., and Lagner.)
Lalama, Carlo, Beaver Falls, Pa. Pressure valve. 1,454,680; May 8.
Lambert, Albert E., Albany, N. Y. Garment. 1,454,477; May 8.
Landis, John R., assignor of one-half to F. H. Strott, St. Louis, Mo. Burglarproof grip. 1,454,546; May 8.
Lane, George S., San Francisco, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,454,547; May 8.
Lare, John D., Boston, and J. Macnaughtan, Brookline, assignors to Gordan Machine Company, Boston, Mass. Bag filling and closing machine. 1,454,060; May 8.
Lange, Fritz. (See Berendes, R., and Lange.)
Larsson, Henry W. (See Loyd, Z. P., and Larsson.)
Lashar, Thomas B., Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill. Alloy knife hardening or tempering. 1,454,387; May 8.
Lathrop, Harry D. (See McEwan, Charles F., assignor.)
Latiff, Henry, Middlesboro, Ky. Vehicle curtain construction. 1,454,681; May 8.
Laurén, Lars W., assignor of one-half to E. E. Ericsson Rosta, Orebro, Sweden. Folding bucket or the like. 1,454,388; May 8.
Lavoie, Alphonse J., Montreal, Quebec, Canada. Chuck. 1,454,121; May 8.
Layne, William R., Richmond, assignor to Standard Oil Company, San Francisco, Calif. Shaft bearing. 1,454,682; May 8.
Lee, William E., assignor of one-half to L. C. Crosby, St. Louis, Mo. Spark plug. 1,454,516; May 8.
Le Fiohic, George, Washington, D. C. Adjustable ladder platform. 1,454,750; May 8.
Lehman, John G., assignor to Bethlehem Foundry & Machine Company, Bethlehem, Pa. Cast-metal container. 1,454,291; May 8.
Lehman, Werner. (See Bager, S. R. W. M., Lehman, and Rubloff.)
Leighton, Charles M. H., Milford, N. H., assignor to Draper Corporation, Hopedale, Mass. Selvage guard for looms. 1,454,787; May 8.
Lennon, Clarence D., Detroit, Mich. Machine for pulverizing and cleaning soil. 1,454,548; May 8.
Lewis, Henry C., Charleston, W. Va., assignor to Charleston Electrical Supply Company. Press. 1,454,478; May 8.
Libbey, C. A., Co. (See Rasmussen, Robert F., assignor.)
Lieberman, Abraham, Jamaica, N. Y. Coin retainer and dispenser. 1,454,445; May 8.
Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co. Milwaukee, Wis. Ignition device for internal-combustion engines. 1,454,549; May 8.
Lind, John L., Siren, Wis. Portable phonograph. 1,454,389; May 8.
Liptak Fire Brick Arch Co. (See Liptak, Michael, assignor.)
Liptak, Michael, St. Paul, Minn. Brick-faced metallic trim. 1,454,204; May 8.
Liptak, Michael, St. Paul, Minn. Brick trim for walls. 1,454,293; May 8.
Liptak, Michael, St. Paul, assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn. Beam hanger. 1,454,292; May 8.
Littlefield, John, Bayonne, N. J. Doweling machine. 1,454,751; May 8.
Lochridge, Eleanor A., Long Beach, Calif. Dressed doll. Des. 62,332; May 8.
Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
Loeb, Samuel, New York, N. Y. Convertible watch. 1,454,322; May 8.
Loop, Christopher C. (See Pinell, L., and Loop.)
Loranger, William E., Los Alamitos, Calif. Glare shield. 1,454,390; May 8.
Lorenz, Byron B., Cape Girardeau, Mo. Vehicle wheel. 1,454,122; May 8.
Lowe, Silas C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Marking attachment for strip-forming apparatus. 1,454,058; May 8.
Loyd Mfg. Co. (See Loyd, Z. P., and Larsson, assignors.)
Loyd Manufacturing Co. (See Loyd, Zelmeré P., assignor.)

Loyd, Zelmere P., Coalinga, assignor to Loyd Manufacturing Co., Oakland, Calif. Shock absorber. 1,454,391; May 8.
Loyd, Zelmere P., Coalinga, assignor to Loyd Manufacturing Co., Oakland, Calif. Shock absorber. 1,454,392; May 8.
Loyd, Zelmere P., and H. W. Larsson, assignors to Loyd Mfg. Co., Oakland, Calif. Shock absorber. 1,454,393; May 8.
Loyd, Zelmere P., and H. W. Larsson, assignors to Loyd Mfg. Co., Oakland, Calif. Adjustable attaching bracket. 1,454,394; May 8.
Luetscher, Ewald, et al. (See Wesolik, Joseph, assignor.)
Luftfahrzeugbau Schütte-Lanz. (See Kruckenberg, Franz F., assignor.)
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Stahl, Karl, assignor.)
Lukacs, John G., New York, N. Y. Airship. 1,453,059; May 8.
Luse, Ralph K., Oxford, Iowa. Attachment for lathes or similar machines. 1,454,590; May 8.
Lyall, P., & Sons Construction Company. (See Bisset, David L., assignor.)
McClure Electric Oiling System. (See McClure, Ralph R., assignor.)
McClure, Ralph R., San Francisco, Calif., assignor to McClure Electric Oiling System. Electrically-operated oil cup. 1,454,123; May 8.
McCreery, George E., et al. (See Van Hise, Lester E., assignor.)
McCuaig, Peter, Fort William, Ontario, Canada. Match scratcher. 1,454,446; May 8.
McCullough, David R., Oakland, Calif. Airplane. 1,454,479; May 8.
McCullough, William T., Salem, Mo. Chimney cowl. 1,454,752; May 8.
McDaniel, Lewis B., La Belle, Mo. Fly swatter. 1,454,062; May 8.
McDonald, Charles D., Los Angeles, Calif. Canopy for automobile beds. 1,454,305; May 8.
McElroy, William, Brooklyn, N. Y. Spark plug. 1,454,646; May 8.
McEwan, Charles F., Oak Park, assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. 1,454,124; May 8.
McFadden, Glenn E., Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I. Socket cover for lighting fixtures. Des. 62,333; May 8.
McFadden, Glenn E., Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I. Candle plate for lighting fixtures. Des. 62,334; May 8.
McFarland, John D., St. Louis, Mo. Powder box. 1,454,242; May 8.
McFarland, Samuel, Coatesville, Pa. Casting apparatus. 1,454,647; May 8.
McGhee, Jesse M., Knoxville, Tenn. Highway signal for railway crossings. 1,454,753; May 8.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Track-laying machine. 1,454,176; May 8.
McHarg, Leslie, Freeport, N. Y. Pier door. 1,454,125; May 8.
McHarg, Leslie, Freeport, N. Y. Pier door. 1,454,126; May 8.
McIndoe, James W., Lockport, N. Y. Making pattern-printing rolls. 1,454,241; May 8.
McLean, James M., and C. T. Munn, New Waterford, Nova Scotia, Canada. Watch charm and the like. 1,454,127; May 8.
McMorran, E. E. (See Tiffany, William S., assignor.)
McQuigg, Charles E. (See Becket, F. M., and McQuigg.)
Maas, Thomas J. (See Maas, William A. and T. J.)
Maas, William A. and T. J., Waterford, Wis. Tire heater. 1,454,295; May 8.
Mabry, John C., Kansas City, Mo. Garment supporter. 1,454,550; May 8.
MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Dipping device. 1,454,244; May 8.
MacDonald, William W., San Francisco, Calif. Hydraulic brake. 1,454,397; May 8.
MacDonald, William W., San Francisco, Calif. Hydraulic-ram control. 1,454,396; May 8.
MacInnes, Hugh, Jersey City, N. J. Method of and apparatus for making flexible roofing material. 1,454,323; May 8.
MacKay, Vasil, Washington, D. C. Mechanical stoking grate support. 1,454,324; May 8.
MacKenzie, Allister, Oakland, Calif. Coupon book. 1,454,447; May 8.
MacKenzie, John S., Delaware, Ohio. Incubator. 1,454,325; May 8.
MacKenzie, Philip, San Francisco, Calif. Pawl-and-ratchet power appliance. 1,454,398; May 8.
MacMillan, Charles W., Passaic, N. J. Film spool. 1,454,480; May 8.
Macnaughtan, James. (See Lane, J. D., and Macnaughtan.)
Madden, Jesse F., Brooklyn, N. Y. Double-eyed guide. 1,454,061; May 8.
Madson, Ole, Ferndale Township, Whatcom County, Wash. Garden weeder. 1,454,326; May 8.
Mainzinger, Harry O., assignor to Whitehead and Kales Co., Detroit, Mich. Vehicle wheel. 1,454,245; May 8.
Malcom, Robert, Chicago, Ill. Eye protector. 1,454,327; May 8.
Malon, Katheryne P., Chicago, Ill. Press. 1,454,128; May 8.
Malouf, Abraham M. and F. M., Brooklyn, N. Y. Garter. 1,454,754; May 8.
Malouf, Fred M. (See Malouf, Abraham M. and F. M.)
Malzahn, Robert, West Bend, Wis. Pocketbook. 1,454,246; May 8.
Mang, Gérard. (See Fournier, L., and Mang.)
Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Desk stand. 1,453,247; May 8.
Marchant Calculating Machine Company. (See Friden, Carl M. F., assignor.)
Marriage, Ira J., Wichita, Kans. Header. 1,451,551; May 8.
Marshick, Oliver J., Detroit, Mich. Bellows mechanism for electric relays. 1,454,129; May 8.
Martin, Robert J., Oswego, N. Y. Game apparatus. 1,454,683; May 8.
Marx, Stephen J., assignor to The Cleveland Air Engineering Company, Cleveland, Ohio. Filtering apparatus for air and the like. 1,454,248; May 8.
Mason, Bonner D., Attleboro, Mass., assignor to The Mason Box Company. Display device. 1,454,552; May 8.
Mason Box Company, The. (See Mason, Bonner D., assignor.)
Mathe, Joseph J. (See Poor, Roy W., assignor.)
Matheson, James H., Reading, Pa. Ball-placing device for tube mills. 1,454,684; May 8.
Matisse, Albert and C. A., New York, N. Y. Reflector. 1,454,755; May 8.
Matisse, Carl A. (See Matisse, Albert and C. A.)
Matulich, Charles de C., Henley Beach, South Australia, Australia. Electric kettle. 1,454,448; May 8.
Mauss, Wilhelm, assignor to Continuous Centrifugals Limited, Johannesburg, Transvaal Province, Union of South Africa. Heat treatment of liquid. 1,454,553; May 8.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Spectacle-frame-coating machine. 1,454,177; May 8.
Mayne, James F., Norwalk, Ohio. Window cleaner. 1,454,481; May 8.
Measuregraph Company, The. (See Hosch, Greene C., assignor.)
Mechanical Development Company, et al. (See Drinkwater, Charles M., assignor.)
Mecky, A., Company. (See Davis, Clarence M., assignor.)
Meier-Gaynor Mfg. Co. (See Edgecombe, Edward F., jr., assignor.)
Melrowsky & Co., Actien-Gesellschaft. (See Schmidt, Friedrich K., assignor.)
Meissner, Alexander, Berlin, Germany. Receiving arrangement for wireless telegraphy. 1,454,328; May 8.
Melanowski, Leo, assignor of one-third to W. H. Cowdery and one-third to G. B. Durell, Cleveland, Ohio. Cast-metal wheel. 1,454,249; May 8.
Mennell, James L., assignor to Chas. Butters & Co. Limited, London, England. Apparatus for indicating the density of liquids and automatically grading the same according to their density. 1,454,756; May 8.
Menzies, John, New Haven, Conn. Steam bowl for chemical laboratories. 1,454,648; May 8.
Merillat, Peter C., Winfield, Iowa. Attachment for road scrapers or graders. 1,454,757; May 8.
Merritt, Clarence H., Heppner, Oreg. Measuring instrument. 1,454,130; May 8.
Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Trunk lock. 1,454,329; May 8.
Meyers, Bernard. (See Graebert, Rudolf R., assignor.)
Mid-State Battery Manufacturing Co. Inc. (See Rueb, Earl J., assignor.)
Miller, Earl J., Bethlehem, Pa. Puzzle. 1,454,131; May 8.
Milwaukee Electric Crane & Manufacturing Co. (See Beck, Matthias A., assignor.)
Miner, Frank E., Chicago, Ill. Portable turntable. 1,454,482; May 8.
Miner, James H., Meridian, Miss. Theft alarm. 1,454,183; May 8.
Miner, Maude, Los Angeles, Calif. Abdominal band. 1,454,330; May 8.
Mitchell, Arthur R., Bridgeport, Ohio. Thread-chasing mechanism. 1,454,554; May 8.
Mitchell, Richard S. M., Bridgeport, Conn. Shock absorber. 1,454,132; May 8.
Modine, Arthur B., Racine, Wis. Radiator. 1,454,483; May 8.
Moeller, Isak, New Glasgow, Nova Scotia, Canada. Reversible strut for railway brake beams. 1,454,063; May 8.
Mooberry, Russell, et al. (See Sumner, George W., assignor.)
Moore, John B., Latrobe, Pa. Oil tool. 1,454,452; May 8.
Moore, John B., Latrobe, Pa. Tool and making the same. 1,454,451; May 8.
Moore, John J., Batavia, N. Y. Combined tractor and truck. 1,454,178; May 8.
Moore, R. Sherman, Cincinnati, Ohio. Belt fastener. 1,454,450; May 8.

Moore, R. Sherman, Cincinnati, Ohio. Belt-fastening machine. 1,454,449; May 8.
Moothart, Lyman L., Junius, S. Dak. Wagon bed. 1,454,179; May 8.
Morgan, John H., et al. (See Garside, Edmund, assignor.)
Morley Button Manufacturing Company. (See Donovan, Timothy, assignor.)
Morris & Company. (See Genung, Charles E., assignor.)
Morris, Leigh W. (See Stoms, Marion W., assignor.)
Mort, Clyde E. (See Chapman, I. S., and Mort.)
Mosey, Clarence K. (See Mosey, George W. and C. K.)
Mosey, George W. and C. K. Seattle, Wash. Valve-tappet silencer. 1,454,453.
Mossberg, Frank, Company. (See Tuttle, Walter I., assignor.)
Motte, Charles M., Paris, France. Propeller for vessels. 1,454,180; May 8.
Mueller, Paul, Ashton, Iowa. Egg-candling device 1,454,685; May 8.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Mechanism for milling blanks for cutters. 1,454,181; May 8.
Munn, George T. (See McLean, J. M., and Munn.)
Murphy, Lawrence W., West Haven, Conn. Locking joint. 1,454,758; May 8.
Murton, Crawford B., Chicago Heights, assignor to Inland Steel Company, Chicago, Ill. Metallic fence-post. 1,454,649; May 19.
Myer, Anson W., Kingston, N. Y. Loose-leaf binder. 1,454,182; May 8.
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Mold and process for casting materials. 1,454,066; May 8.
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Mold for casting metals and making and using the molds. 1,454,065; May 8.
Myers, Hubert A., Company, The. (See Myers, H. A., and Straw, assignors.)
Myers, Hubert A., Company, The. (See Myers, Hubert A., assignor.)
Myers, Hubert A., Toledo, and A. D. Straw, Wauseon, assignors to The Hubert A. Myers Company, Toledo, Ohio. Casting metals. 1,454,064; May 8.
Myers, Hubert A., Toledo, and A. D. Straw, Wauseon, assignors to The Hubert A. Myers Company, Toledo, Ohio. Container and mold for molten metal. 1,454,067; May 8.
Myers, Hubert A., Toledo, and A. D. Straw, Wauseon, assignors to The Hubert A. Myers Company, Toledo, Ohio. Protective material for molds and forming the same. 1,454,068; May 8.
Nadler, August, and J. R. Kinghorn, Brooklyn, N. Y. Sealing-wax stick. 1,454,759; May 8.
Nagelvoort, Adriaan, assignor to The Nitrogen Corporation, Providence, R. I. Treating gases. 1,454,591; May 8.
Namtvedt, Peter I., Terril, Iowa. Vehicle jack. 1,454,686; May 8.
Napier, D., & Son Limited. (See Rowledge, Arthur J., assignor.)
Nasmith, John W., Manchester, England. Combing machine. 1,454,484; May 8.
National Dump Car Company. (See Hindahl, David, assignor.)
Neander, Victor T. (See Kneeland, Oscar A., assignor.)
Neary, Michael J., Scranton, Pa. Roller-coaster safety appliance. 1,454,760; May 8.
Nelson, Adolph L., assignor of one-third to C. S. Crawford, Indianapolis, Ind. Piston. 1,454,761; May 8.
Nelson, Adolph L., assignor of one-third to C. S. Crawford, Indianapolis, Ind. Piston. 1,454,762; May 8.
Nelson Bros. & Strom Sales Co. (See Strom, Clifton O., assignor.)
Nelson, Ivan J., Saginaw, Mich. Windshield wiper. 1,454,650. May 8.
New Jersey Zinc Company, The. (See Borcherdt, Walter O., assignor.)
Newark Gear Cutting Machine Co. (See Eberhardt, Henry J., assignor.)
Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Valve mechanism. 1,454,331; May 8.
Niagara Sprayer Co. (See Knapp, E., Dickerson, and Begtrup, assignors.)
Nielsen, Niels, Pittsburg, Calif. Asparagus cutter. 1,454,555; May 8.
Nietz, Gustav, Richmond Hill, N. Y. Heater. 1,454,556; May 8.
Nietzel, Oswald, Elizabeth, N. J. Combination curtain and shade holder. 1,454,557; May 8.
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Niles-Bement-Pond Company. (See Pyle, Lewis M., assignor.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nitrogen Corporation, The. (See Arnold, Edward E., assignor.)
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Nitrogen Corporation, The. (See Nagelvoort, Adriaan, assignor.)
Nolting, Philip H., Jersey City, N. J. Watch guard. 1,454,763; May 8.
Nomicos, James A., Chicago, Ill. Vehicle bumper. 1,454,133; May 8.
Norris, John E., assignor to Indianapolis Manufacturing Company, Indianapolis, Ind. Trimmer for battery separators. 1,454,390; May 8.
Northern Equipment Company. (See Andrews, Roger W., assignor.)
Norton, James A., Odebolt, Iowa. Irrigating apparatus. 1,454,332; May 8.
Noyes, Benjamin F. (See Hamilton, C. A., and Noyes.)
Nutrizio, Henry J., New York, N. Y. Display stand. Des. 62,335; May 8.
Nutrizio, Henry J., New York, N. Y. Display stand. Des. 62,336; May 8.
Nutrizio, Henry J., New York, N. Y. Display stand. Des. 62,337; May 8.
Nutrizio, Henry J., New York, N. Y. Display stand. Des. 62,338; May 8.
Nyquist, Albert G., deceased, Minneapolis, Minn.; H. L. Nyquist, administratrix. Sound-reproducing machine. 1,454,134; May 8.
Nyquist, Hilda L., administratrix. (See Nyquist, Albert G.)
O'Bannon, Walter A., Tulsa, Okla. Packing for pumps. 1,454,400; May 8.
O'Brien, William E., and J. Smith, Chicago, Ill. Bumper. 1,454,764; May 8.
Obrikat, Franz, jr., Los Angeles, Calif. Pattern file. 1,454,069; May 8.
Ochoa Tools and Machine Company. (See Ochoa, Victor L., assignor.)
Ochoa, Victor L., El Paso, Tex., assignor to Ochoa Tools and Machine Company. Wrench. 1,454,333; May 8.
O'Day, Eliza. (See Kromnenus, Angelos, assignor.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob. 1,454,135; May 8.
O'Neill, William F., Albany, N. Y. Scrubbing stool. 1,454,401; May 8.
Openshaw, Fred, Gonville, Wanganui, New Zealand. Self locking wireless molded roofing. 1,454,070; May 8.
Ordinator Company. (See Brixey, Austin D., assignor.)
Osborn, Frederick H. (See Reaser, J. W., Hull, and Osborne.)
Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
Owens, Charles, Chattanooga, Tenn. Grain harvester. 1,454,071; May 8.
Oxhandler, Leopold, Chicago, Ill. Shipping container for eggs and other fragile articles. 1,454,601; May 8.
P & M Company, The. (See Berkeley, Laurence J., assignor.)
Page, Henry A., Richmond, Va. Illuminated seat indicator for auditoriums and the like. Des. 62,339; May 8.
Palmer, Percy L., Redondo, and G. W. Draggoo, El Segundo, Calif. Valve cock. 1,454,222; May 8.
Palmolive Company, The. (See Schwantes, Julius A., assignor.)
Panter, Robert C., et al. (See Sumner, George W., assignor.)
Panyity, George, Columbus, Ohio. Traveling-bag fastener. 1,454,651; May 8.
Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Double-throw quick-make and quick-break switch. 1,454,072; May 8.
Paradice, Frank H., Denver, Colo. Hose mender, band, and coupling. 1,454,073; May 8.
Parker, Norman C., Chicago, Ill. Garment hanger. 1,454,334; May 8.
Parodi, Hippolyte, Paris, France. Contact rail for electric traction. 1,454,296; May 8.
Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal unloader for compressors. 1,454,402; May 8.
Parsons, William A., Milwaukee, Wis. Parquet flooring. 1,454,250; May 8.
Paton, William G., Toronto, Ontario, Canada. Straw salting and fertilizing. 1,454,558; May 8.
Patterson, John L., Westhampton, and L. R. Bivins, Highland Springs, Va. Measuring device. 1,454,765; May 8.
Peach, William J., Kansas City, Mo. Cable hanger. 1,454,559; May 8.
Peacock, Glenn, Bartlesville, Okla. Vacuum attachment for clothes-pressing machines. 1,454,403; May 8.
Peale, Rembrandt. (See Peale, Richard, assignor.)
Peale, Richard, assignor to R. Peale, St. Benedict, Pa. Car handling and dumping system. 1,454,602; May 8.
Peck, William S., et al. (See Gilmore, Benjamin V., assignor.)
Pennsylvania Textile Mills Inc. (See Fauser, Gustave M., assignor.)
People of the United States, The. (See Sherrard, Earl C., assignor.)
Pereira, Hans. (See Zinke, Alois, assignor.)
Perfection Electric Products Co., The. (See Kruesheld, Henry, assignor.)
Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Making acidproof containers. 1,454,687; May 8.
Perrault, Jules A., and W. A. Hitchcock, Boston, Mass. Combined phonograph and moving-picture cabinet. Des. 62,340; May 8.
Perron, Alexander J., Sparta, Wis. Signal apparatus for motor vehicles. 1,454,184; May 8.

Persch, John P., Houston, Tex., assignor of one-fifth to B. Tolles, Hohokus, N. J. Process of and apparatus for treating hydrocarbon oils. 1,454,485; May 8.
Phillips, Walter W., London, England. Heel pad for a boot or shoe. Des. 62,341; May 8.
Phillips, Walter W., London, England. Heel pad for a boot or shoe. Des. 62,342; May 8.
Pinell, Louis, and C. C. Loop, Tacoma, Wash. Music-turning device. 1,454,766; May 8.
Plant, John W., San Mateo, Calif., assignor to American Manganese Steel Company, Chicago, Ill. Bucket lip. 1,454,486; May 8.
Platt, Clarence D., Bridgeport, Conn. Electrical cut-out. 1,454,185; May 8.
Platt, Clarence D., Bridgeport, Conn. Electric cut-out and the like. 1,454,186; May 8.
Plew, James E., Chicago, Ill. Bubbling drinking fountain. 1,454,603; May 8.
Plunkett, William H. (See Holmes, Alfred E., assignor.)
Poell, Harry F., Philadelphia, Pa. Umbrella. 1,454,404; May 8.
Pollak, Abraham, assignor to S. Kanner, New York, N. Y. Lead pencil. 1,454,136; May 8.
Pollard, Karl W., Boston, Mass. Holding, adjusting, and aligning apparatus for lenses for eyeglasses and the like. 1,454,688; May 8.
Poor, Roy W., assignor of one-fourth to J. J. Mathe, Los Angeles, Calif. Motor-driven mixer and the like. 1,454,223; May 8.
Poppe, Erling. (See Poppe, Peter A. and E.)
Poppe, Peter A. and E., Coventry, England. Cylinder connection and the like. 1,454,187; May 8.
Poritz, Frederick M., assignor to Star Chandelier Company, Inc., New York, N. Y. Chandelier. Des. 62,343; May 8.
Porter, John A., Macon, Ga. Positive let-off motion for looms. 1,454,767; May 8.
Porter, Winfield P., New York, N. Y. Pneumatic tube and making the same. 1,454,074; May 8.
Powell, A. L., Power Co., The. (See Powell, Alvah L., assignor.)
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Internal-combustion engine. 1,454,075; May 8.
Powell, James F., Flint, assignor of fifty-one per cent to V. F. Brown, Ann Arbor, Mich. Fastener. 1,454,251; May 8.
Powell, Joseph M., Brooklyn, Ind., assignor to Eagle Iron Works, Des Moines, Iowa. Shale planer. 1,454,519; May 8.
Prat, Emile, assignor to Société des Cheminées Louis Prat à Tirage Induit, Paris, France. Chimney draft device with two fans. 1,454,560; May 8.
Prat, Georges J., Paris, France. Chimney draft device. 1,454,561; May 8.
Pratt & Whitney Company. (See Müller, Friederich, assignor.)
Pratt, Haraden, assignor to A. Taylor, San Francisco, Calif. Radio frequency transmission system. 1,454,652; May 8.
Prendergast, Edward, St. Louis, Mo. Repair link for chains. 1,454,335; May 8.
Prendergast, Edward, St. Louis, Mo. Road-ditching machine. 1,454,336; May 8.
Proctor & Schwartz Incorporated. (See Schwartz, W. M., and Ayres, assignors.)
Pullman Company. (See Smith, William C., assignor.)
Purcell, Benjamin H., assignor to Automatic Machinery Company, Terre Haute, Ind. Leer feeder. 1,454,520; May 8.
Pyle, Lewis M., Bryn Mawr, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer. 1,454,076; May 8.
Quintal, Freeman A., Holyoke, Colo. Fishhook. 1,454,689; May 8.
Radio Corporation of America. (See Ditcham, William T., assignor.)
Radio Corporation of America. (See Van de Veide, H. R. C., and Furnival, assignors.)
Rand, James H., North Tonawanda, N. Y. Index device 1,454,406; May 8.
Rand, James H., North Tonawanda, N. Y. Record device 1,454,405; May 8.
Rand, James H., jr., Tonawanda, N. Y. Visible index or reference device. 1,454,663; May 8.
Rapeport, William H., Philadelphia, Pa. Bumper or fender for autos or other vehicles. 1,454,407; May 8.
Rasmussen, Robert F., assignor to C. A. Libbey Co., Oshkosh, Wis. Switch for overhead tracks. 1,454,188; May 8.
Raymond, Ray R., New York, N. Y. Lock. 1,454,768; May 8.
Readle, William H., San Bernardino, Calif. Fish lure. 1,454,820; May 8.
Reaser, John W., S. M. Hull, and F. H. Osborne, Portsmouth, Va. Headlight mechanism. 1,454,788; May 8.
Reed, Herbert S. (See Carlson, John W., assignor.)
Reed, James H., Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Assembling and lasting machine. 1,454,562; May 8.
Reed, John G., Los Angeles, Calif. Toy. 1,454,077; May 8.
Reed Roller Bit Company. (See Esperson, Niels, assignor.)
Reichard, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Tubbing for shafts. 1,454,408; May 8.
Reinartz, Josef, Mount Vernon, N. Y. Ham boiler. 1,454,337; May 8.
Reinhard, Frank A., Wilmington, assignor to Boston Tool and Manufacturing Company, Boston, Mass. Filing machine. 1,454,690; May 8.
Rentchler, Maurice R., Los Angeles, Calif. Flexible screw driver. 1,454,789; May 8.
Research Corporation. (See Wintermute, Harry A., assignor.)
Retzer, Albert, Milwaukee, Wis. Egg carton. 1,454,252; May 8.
Richardson, Charles E., Newark, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort. 1,454,338; May 8.
Richter, George A., assignor to Brown Company, Berlin, N. H. Treating cellulose pulp to remove odors therefrom. 1,454,339; May 8.
Richter, Herman F., Los Angeles, Calif. Pressure-controlling device. 1,454,409; May 8.
Riddell, Stuart F. J., Ravenscourt Park, and E. Forster, Richmond, England. Advertising sign and the like. 1,454,691; May 8.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Rieger, August R., Chicago, Ill. Cigarette holder. 1,454,487; May 8.
Riggs, Garshom, A. (See Chapman, A. K., and Riggs.)
Rip Van Winkle Wall Bed Co. (See Sinclair, Neil, assignor.)
Ripley, George A., Dallas, Tex. Reversible cuff. 1,454,654; May 8.
Rissman, Paul, assignor to Detroit Insulated Wire Company, Detroit, Mich. Anchor connection for flexible cords. 1,454,253; May 8.
Robbins, Frank, Clifton Hill, Victoria, assignor to G. E. Andrew, Richmond, Australia. Machine for removing the cores and stones from fruit. 1,454,411; May 8.
Roberts, Ferdinand C., Detroit, Mich. Transparent sign. 1,454,563; May 8.
Robertson, James, jr., Weehawken, N. J. Mold for forming repair patches. 1,454,655; May 5.
Robeson, Edna G., Atlanta, Ga. Type bar for stenographic typewriters. 1,454,692; May 8.
Robinson, Joseph V., Santa Monica, Calif. Automatic train-pipe connector. Re15,596; May 8.
Robison, Lige, Four States, W. Va. Artificial coal. 1,454,410; May 8.
Roblee, Robert A., assignor to Brown Shoe Company, Incorporated, St. Louis, Mo. Shoe filler. 1,454,412; May 8.
Rockbestos Products Corporation. (See Heany, John A., assignor.)
Rodebush, Worth H., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making glycol. 1,454,604; May 8.
Roney, Robert L., East Orange, N. J. Clip for fastening wire fence fabrics to posts, etc. 1,454,254; May 8.
Rork, Charles E., and A. Sandberg, Douglas, Ariz., assignors to W. A. Butchart, Denver, Colo. Flotation machine. 1,454,656; May 8.
Rose, Raymond, New Brighton, Pa. License-tag holder. 1,454,413; May 8.
Rosenburgh, Durwood D. (See Stalker, F. W., and Rosenburgh.)
Rosier, Henry, Lowell, Mass. Folding revolver. 1,454,454; May 8.
Ross, Oscar A., New York, N. Y. Synchronized machine gun for airplanes. 1,454,137; May 8.
Rothkowitz, Isaiah, assignor of one-half to J. Rothkowitz, New York, N. Y. Brassière. 1,454,790; May 8.
Rothkowitz, Joseph. (See Rothkowitz, Isaiah, assignor.)
Rowland, George R., Elizabeth, N. J., assignor to The Texas Company, New York, N. Y. Barrel seal. 1,454,488; May 8.
Rowledge, Arthur J. Acton, assignor to D. Napier & Son Limited, London, England. Brake for motor road vehicles. 1,454,380; May 8.
Rueb, Earl J., assignor to Mid-State Battery Manufacturing Co. Inc., Oklahoma, Okla. Storage-battery electrolyte. 1,454,078; May 8.
Ruff, Otto, Breslau, Germany. Producing zirconium dioxide. 1,454,564; May 8.
Rugh, Harry O. (See Krueger, Walter, assignor.)
Ruhloff, Frederick C. (See Bager, S. R. W. M., Lehman, and Ruhloff.)
Russ Company, The. (See Schutt, Theodore H., assignor.)
Russell, Joseph C., Pittsburgh, Pa. Card index. 1,454,791; May 8.
Rustad, Henry, Winnipeg, Manitoba, Canada. Molding form. 1,454,189; May 8.
San Diego, Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)
Sandberg, August. (See Rork, C. E., and Sandberg.)
Sands, Asa D., Camden, N. J. Receptacle plate for electrical outlets. 1,454,081; May 8.
Sanford, Augustine C., Chicago, Ill. Combined desk and seat. 1,454,565; May 8.
Sargent, Merle S., Ashtabula, Ohio. Apparatus for and method of cutting separator plates. 1,454,455; May 8.
Schalkenbach, Hulda W., administratrix. (See Schalkenbach, Robert N.)

Schalkenbach, Robert N., deceased, by H. W. Schalkenbach, administratrix, Baltimore, Md. Glazed structure. 1,454,079; May 8.
Schellenbach, William L., Wyoming, Ohio, assignor to Giddings & Lewis Manufacturing Company, Fond du Lac, Wis. Horizontal boring mill. 1,454,190; May 8.
Schelling, Hermann F., Grantwood, N. J. Needle holder for talking machines. 1,454,489; May 8.
Schlattau, Frank F., Los Angeles, Calif. Measuring instrument. 1,454,693; May 8.
Schlösser, Gustav, Oberschoneweide, near Berlin, Germany. Utilizing domestic and industrial garbage and other refuse. 1,454,082; May 8.
Schmidt, Friedrich K., assignor to the Firm Meirowsky & Co., Actien-Gesellschaft, Porz-on-the-Rhine, Germany. Method and means for applying a liquid to wires, threads, and the like. 1,454,224; May 8.
Schoenleber, John G. (See Bell, T. H., and Schoenleber.)
Schoenleber, John G. (See Bell, Thomas H., assignor.)
Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Leaf ornament for electric fixtures, etc. Des. 62,344; May 8.
Schutt, Theodore H., assignor to The Russ Company, Cleveland, Ohio. Self-closing faucet. 1,454,340; May 8.
Schuyler, Albert B. and R. B., Rochester, N. Y. Jarring machine. 1,454,490; May 8.
Schuyler, Ross B. (See Schuyler, Albert B. and R. B.)
Schwantes, Julius A., assignor to The Palmolive Company, Milwaukee, Wis. Apparatus for cutting soap into bars. 1,454,769; May 8.
Schwartz, Gerhardt F., St. Louis, Mo. Safety control for automatic gas appliances. 1,454,341; May 8.
Schwartz, Walter M., and E. B. Ayres, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Leather drier. 1,454,694; May 8.
Scott, Walter A., Brooklyn, N. Y. Automobile license-plate casing. 1,454,792; May 8.
Seamless Can & Bucket Co., The. (See Wells, Benjamin N., assignor.)
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Clamping mechanism for metal-working machines. 1,454,080; May 8.
Senter, Olive L. (See Bean, Louis A., assignor.)
Shaffer, William F., and B. Crutchfield, Jackson, Tenn. Latch for railway-car couplings. 1,454,083; May 8.
Sharples Specialty Company, The. (See Ayres, Eugene E., jr., assignor.)
Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Flat-bed multicopy machine. 1,454,821; May 8.
Sherman, John Q., Dayton, Ohio. Manifolding typewriter. 1,454,822; May 8.
Sherrard, Earl C., Madison, Wis.; dedicated, by mesne assignments, to The People of the United States. Making ethyl alcohol from galactose. 1,454,521; May 8.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,454,522; May 8.
Shirreffs, James R., deceased, Los Angeles, Calif.; J. R. Shirreffs, jr., administrator. Spotlight. 1,454,695; May 8.
Shirreffs, James R., jr., administrator. (See Shirreffs, James R.)
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Valve-actuating device for hydrocarbon motors. 1,454,084; May 8.
Shrubsole, Ernest, London, England. Route indicator. 1,454,793; May 8.
Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
Silberfeld, Hélène, New York, N. Y. Doll. Des. 62,345; May 8.
Sileo, Frank A., New York, N. Y. Cigarette humidor. Des. 62,346; May 8.
Silvene, Antony, and L. B. Stedman, Victoria, British Columbia, Canada. Air-brake triple valve. 1,454,456; May 8.
Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Co., Oakland, Calif. Automatic locking device for wall-bed footpieces. 1,454,523; May 8.
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Sherne Works Limited, The, et al. (See Garside, Edmund, assignor.)
Skilling, John M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Progressive nitrocellulose powder containing nitroguanidine. 1,454,414; May 8.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. 1,454,138; May 8.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. 1,454,139; May 8.
Slingerland, George O., Mechanicsville, N. Y. Glove box. 1,454,457; May 8.
Slocomb, John T., Cranston, assignor to Economy Cooker Company, East Providence, R. I. Steam-pressure cooker. 1,454,836; May 8.
Slocomb, John T., Providence, assignor to Economy Cooker Company, East Providence, R. I. Steam-pressure cooker. 1,454,835; May 8.
Smith, Charles E., Johnstown, Pa. Electrical display device. 1,454,566; May 8.
Smith, Burgess W., assignor to Todd Protectograph Company, Rochester, N. Y. Safety paper and making same. 1,454,837; May 8.
Smith, Henry A., Santa Barbara, Calif. Wall board and making the same. 1,454,823; May 8.
Smith, Joseph. (See O'Brien, W. E., and Smith.)
Smith, Joseph N., & Company. (See Ackerman, Edward L., assignor.)
Smith, Robert A., Philadelphia, Pa. Hair-cutting device. 1,454,458; May 8.
Smith, Thomas E., Good Springs, Tenn. Churn. 1,454,770; May 8.
Smith, William C., assignor to Pullman Company, Chicago, Ill. Self-aligning pulley. 1,454,657; May 8.
Smith, William H., Bridgeport, Conn. Resilient wheel. 1,454,342; May 8.
Smith, William H., East Cleveland, Ohio. Stop and waste valve. 1,454,415; May 8.
Smreker, Oscar, assignor to the Firm Internationale-Siegwartbalken-Gesellschaft, Lucerne, Switzerland. Manufacture of railway sleepers and the like of reenforced concrete. 1,454,794; May 8.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,454,343; May 8.
Snyder, Hiram B., Fullerton, Calif. Method and apparatus for producing a chemical union between hydrocarbon gases and hydrocarbon oils. 1,454,567; May 8.
Société des Cheminées Louis Prat à Tirage Induit. (See Prat, Emile, assignor.)
Société des Fabriques de Spiraux Réunies. (See Guillaume, Charles E., assignor.)
Solar-Sturges Manufacturing Co. (See Sturges, Lee, assignor.)
Soper, Ellis C., Chattanooga, Tenn. Tube mill. 1,454,491; May 8.
Sorrentino, Vincent, assignor to Uncas Manufacturing Company, Providence, R. I. Finger ring. Des. 62,347; May 8.
Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Flash igniter for gas burners. 1,454,658; May 8.
Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.)
Sperry, Elmer A., Brooklyn, N. Y. Electric indicator for vibrations of the air. 1,454,085; May 8.
Sperry Gyroscope Company, The. (See Kuttner, Julius, assignor.)
Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
Spofforth, Walter, St. Paul, Minn. Sound box for sound-reproducing machines. 1,454,297; May 8.
Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
Springer, John. (See Dickinson, F. S., and Springer.)
"Stachelband" G. m. b. H. (See Gösser, Richard, assignor.)
Stahl, Karl, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Stretching device. 1,454,298; May 8.
Stalker, Frederick W., and D. D. Rosenburgh, assignors to Taylor Instrument Companies, Rochester, N. Y. Pressure responsive diaphragm. 1,454,459; May 8.
Standard Engineering Company. (See Newcomb, Edward C., assignor.)
Standard Oil Company. (See Layne, William R., assignor.)
Star Chandelier Company. (See Poritz, Frederick M., assignor.)
Staugaard, Christian, Detroit, Mich. Spindle-bolt-removing device. 1,454,086; May 8.
Stebler, Fred, assignor to Stebler Parker Co., Riverside, Calif. Brush. 1,454,191; May 8.
Stebler Parker Co. (See Stebler, Fred, assignor.)
Stedman, Leonard S. (See Silvene, A., and Stedman.)
Stepp, James M., Huntington, W. Va. Cleaning apparatus. 1,454,381; May 8.
Stevens, Leslie. (See Burch, George B., assignor.)
Stewart, Robert H., Vancouver, British Columbia, Canada, assignor to Texas Gulf Sulphur Company, Bay City, Tex. Solidifying molten sulphur. 1,454,344; May 8.
Stilwell, Wilson H. (See Fugina, A. R., Clough, and Stillwell.)
Stobie, John A., Malta Bend, Mo. Material-handling apparatus and conveyer. 1,454,345; May 8.
Stoll, Henry R., El Paso, Tex. Strainer for sinks and the like. 1,454,346; May 8.
Stoms, Marion W., assignor of one-half to L. W. Morris, Kansas City, Mo. Valve for compressors. 1,454,347; May 8.
Stone, Joseph, assignor to Stone Safety Socket Company, Chicago, Ill. Safety pocket. 1,454,771; May 8.
Stone Safety Pocket Company. (See Stone, Joseph, assignor.)
Strause Gas Iron Co. (See Spahr, Otto, assignor.)
Straw, Arteemes D. (See Myers, H. A., and Straw.)
Strnad, Louis G., Chicago, Ill. Curtain-rod bracket. 1,454,605; May 8.
Strom, Clifton O., assignor to Nelson Bros. & Strom Sales Co., Racine, Wis. Machine for casing in books. 1,454,299; May 8.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)

Strott, Frank H. (See Landis, John R., assignor.)
Stroud, Edmund H., Chicago, Ill. Dust collecting and separating system and apparatus. 1,454,492; May 8.
Stubfors, Arenth A., Spooner, Wis. Spraying device. 1,454,824; May 8.
Stull, Roy H., assignor of three-tenths to N. Suhrie, Sunbury, Pa. Oiling device. 1,454,696; May 8.
Sturges, Lee, Chicago, Ill., assignor to Solar-Sturges Manufacturing Co. Combination agitator and sampler. 1,454,300; May 8.
Sturgis, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Flexible-cable release and assembling same. 1,454,192; May 8.
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. 1,454,140; May 8.
Suhrie, Norman. (See Stull, Roy H., assignor.)
Sullivan, Vernon L., El Paso, Tex. Suspension bridge. 1,454,772; May 8.
Summerill, Charles H., Penns Grove, N. J. Burglar alarm for automobiles. 1,454,795; May 8.
Sumner, George W., assignor of three twenty-fifths to R. Mooberry, three twenty-fifths to T. Gray, three twenty-fifths to R. C. Panter, and three twenty-fifths to J. W. Byers, Dorchester, Nebr. Telephone attachment. 1,454,773; May 8.
Sunderman Corporation. (See Sunderman, Frederick R., assignor.)
Sunderman, Frederick R., assignor to Sunderman Corporation, Newburgh, N. Y. Jack. 1,454,524; May 8.
Sundh, August, Hastings-upon-Hudson, N. Y., and W. Westerman, Detroit, Mich. Mill. 1,454,493; May 8.
Superheater Company, The. (See Barnes, John A., assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swan, John B., assignor of one-half to L. Csemiczsky, Denver, Colo. Adjustable cultivator. 1,454,225; May 8.
Swan, John B., assignor of one-half to L. Csemiczsky, Denver, Colo. Combined shade roller and curtain bracket. 1,454,226; May 8.
Swanfeldt, Andrew. (See Cochran, John A., assignor.)
Swinnerton, Rupert, Minneapolis, Minn. Automobile garage. 1,454,348; May 8.
Taft, Herbert O., Burlington, Vt. Spool. 1,454,796; May 8.
Taubman, John K., et al. (See Wingo, Sara H., assignor.)
Taylor, Augustus. (See Anderson, Adrien L., assignor.)
Taylor, Augustus. (See Chapman, Corwin C., assignor.)
Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Augustus. (See Pratt, Haraden, assignor.)
Taylor, Howard, assignor to Taylor Spring & Equipment Company, Philadelphia, Pa. Vehicle spring. 1,454,568; May 8.
Taylor Instruments Companies. (See Stalker, F. W., and Rosenburgh, assignors.)
Taylor, Joseph H., Mellen, Wis. Tire rim. 1,454,797; May 8.
Taylor Spring & Equipment Company. (See Taylor, Howard, assignor.)
Technicolor Motion Picture Corporation. (See Wescott, William B., assignor.)
Teetor, Charles N., Hagerstown, Ind. Assembling tool. 1,454,349; May 8.
Teetor, Ralph R., Hagerstown, Ind. Tool for compressing piston rings. 1,454,350; May 8.
Texas Company. (See Gatchell, Frederick D., assignor.)
Texas Company, The. (See Rowland, George R., assignor.)
Texas Gulf Sulphur Company. (See Stewart, Robert H., assignor.)
Thomas, Arvine N., Canton, Ohio. Filing-case drawer suspension. 1,454,494; May 8.
Thomas, Avery H., Houston, Tex. Elevator. 1,454,193; May 8.
Thomas, Avery H., assignor to Houston Pump & Supply Company, Houston, Tex. Elevator. 1,454,194; May 8.
Thomas, Edward, East Chicago, Ind. Automobile alarm signal. 1,454,141; May 8.
Thomas, George H., Westfield, N. Y. Flexible coupling. 1,454,087; May 8.
Thomas, Henry, Cleveland, Ohio. Method of and flux for refining brass. 1,454,351; May 8.
Thomas, Joseph, Aberdeen, Wash. Roasting furnace. 1,454,798; May 8.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. 1,454,569; May 8.
Thomas, Thomas H., Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. 1,454,570; May 8.
Thompson, Howard A., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic brake valve. 1,454,525; May 8.
Thompson, Nels F., Fort Dodge, Iowa. Automatic feeder. 1,454,352; May 8.
Thorpe, William H., Mount Vernon, N. Y. Storage battery. 1,454,571; May 8.
Thrift, Homer C., Burkburnett, Tex. Pipe-pulling apparatus. 1,454,088; May 8.
Thrush, Homer A., Peru, Ind. Pressure-relief valve. 1,454,353; May 8.
Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Adding machine particularly for leather-measuring machines. 1,454,382; May 8.
Thurston, Albert P., London, and H. N. Wylie, Birmingham, England. Compound metal spar. 1,454,659; May 8.
Tiffany, William S., assignor of one-half to E. E. McMorran, Chicago, Ill. Fire extinguisher. 1,454,825; May 8.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Eye-testing instrument. 1,454,774; May 8.
Tillyer, Edgar D. (See Wells, J. C., and Tillyer.)
Timken-Detroit Axle Company, The. (See Vanderbeek, Herbert, assignor.)
Todd Protectograph Company. (See Smith, Burgess W., assignor.)
Toledo Scale Company. (See Emery, Wilber, assignor.)
Toledo Scale Company. (See Ulrich, Edward F., assignor.)
Tolles, Brainard. (See Persch, John P., assignor.)
Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph motor. 1,454,195; May 8.
Tomlinson, Edmund, and R. T. Gifford, Springfield, assignors to E. N. White, J. L. Wyckoff, and J. M. Eaton, trustees, Holyoke, Mass. Platform. 1,454,416; May 8.
Tompkins, John D., Valatie, N. Y. Paper making machine. 1,454,606; May 8.
Towler, Maximilian J. L., Detroit, Mich. Differential gearing. 1,454,578; May 8.
Trood, Samuel, Pittsburgh, Pa. Device for producing and utilizing combustible mixture. 1,454,196; May 8.
Turner, Ernest J. (See Howard, B. H., and Turner.)
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric-battery-control device. 1,454,526; May 8.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Mounting for bobbins. 1,454,660; May 8.
Ulrich, Edward F., assignor to Toledo Scale Company, Toledo, Ohio. Load-counterbalancing mechanism. 1,454,089; May 8.
Uncas Manufacturing Company. (See Sorrentino, Vincent, assignor.)
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
Underwood Typewriter Company. (See Allard, J Frank, assignor.)
Unger, Morris, Pittsburgh, Pa. Amusement device. 1,454,775; May 8.
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Radio Corporation. (See Austrian, Ralph B., assignor.)
Usher, Frederick W., Brooklyn, N. Y. Boudoir lamp. 1,454,799; May 8.
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Industrial Alcohol Co. (See Rodebush, Worth H., assignor.)
U. S. Industrial Alcohol Co. (See Winter, Ernest J., assignor.)
Vail, Charles H., assignor to Anthony-Vail Tool & Machine Company, Gloversville, N. Y. Drying former and socket member therefor. 1,454,776; May 8.
Van de Velde, Harold R. C., and J. M. Furnival, Bromley, England, assignors to Radio Corporation of America, New York, N. Y. Wireless direction finding means for and method of piloting aircraft. 1,454,592; May 8.
Vanderbeek, Herbert, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Brake mechanism. 1,454,091; May 8.
Van Hise, Lester E., assignor of one-third to J. V. Baldwin, one-third to P. F. Howell, and one-third to G. E. McCreery, Los Angeles, Calif. Fluid meter. 1,454,301; May 8.
Vadnais, Louis O., Myrtle Creek, Oreg. Combined gauge and set for crosscut saws and the like. 1,454,227; May 8.
Varaud, André, La-Capite-Vesenaz, near Geneva, Switzerland. Collar attachment. 1,454,807; May 8.
Vawter, John M., assignor of one-half to I. M. Draper, Indianapolis, Ind. Clutch governor. 1,454,800; May 8.
Vennes, Harald J., assignor to Western Electric Company, Incorporated, New York, N. Y. System of current-wave transmission. 1,454,495; May 8.
Vester, Alfred, Sons, Inc. (See McFadden, Glenn E., assignor.)
Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
Villaret, Gustave E., New York, N. Y. Lighting fixture. Des. 62,348; May 8.
Viqueaney, Ernest M., Spencer, Ind. Statuette, incense burner, or similar article. Des. 62,349; May 8.
Vischer, Alfred, jr., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. 1,454,496; May 8.
Visger, Robert H., assignor of three-fourths to O. H. Wallen, Chicago, Ill. Measuring device. 1,454,354; May 8.

Von Bernewitz, Richard F. A., Cincinnati, Ohio. Direction indicator. 1,454,355; May 8.
Vortex Manufacturing Company, The. (See Barbieri, Cesare, assignor.)
Wade, Henry N., Shorewood, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. 1,454,527; May 8.
Wade, James M. (See Wells, A. Z., and Wade.)
Waite, Bertram, Galt, Ontario, Canada. Dirigible headlight for automobiles. 1,454,608; May 8.
Walker, Charles J., Gary, Ind. Riveter. 1,454,777; May 8.
Walker, Edwin L., Onaway, Mich. Propeller. 1,454,356; May 8.
Walkup, Samuel T., New York, N. Y. Power press. 1,454,497; May 8.
Wallace, R., & Sons, Mfg. Co. (See Hillborn, Henrik, assignor.)
Wallen, Oscar H. (See Visger, Robert H., assignor.)
Walsh, William J., Hamilton, Ontario, Canada. Bookrest. 1,454,197; May 8.
Walters, Arthur B., Kansas City, Mo. Liquid measuring and dispensing device. 1,454,572; May 8.
Warner Brothers Company, The. (See Warner, De Ver H., assignor.)
Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Woman's fitted undergarment. 1,454,417; May 8.
Warren Clock Company. (See Warren, Henry E., assignor.)
Warren, Frank S., Oakland, Calif., assignor to Eastman Kodak Company, Rochester, N. Y. Camera. 1,454,198; May 8.
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. System of electrically transmitting signals. 1,454,092; May 8.
Washburn-Crosby Company. (See Harding, Henry O., assignor.)
Washburn, Edwin C., Englewood, N. J. Truck bolster. 1,454,357; May 8.
Washburn, Herbert I., Magnolia, N. J. Agricultural tractor. 1,454,093; May 8.
Wearite Children's Underwear Manufacturing Corporation. (See Bastiansen, Otto, assignor.)
Weaver Manufacturing Company. (See Davies, David A., assignor.)
Weaver Manufacturing Company. (See Duby, John F., assignor.)
Webb, Frank I., and C. S. Harrison, McKeesport, Pa. Wave motor. 1,454,801; May 8.
Weber, Bernard F., Chicago, Ill. Method of and means for making bricks. 1,454,826; May 8.
Weeks, Leroy, Nevada, Iowa. System of kilns. 1,454,358; May 8.
Wegner, Lewis E., Hagerstown, Md. Tongs. 1,454,778; May 8.
Weidlich, Kunz, assignor to the Firm Bing-Werke, vorm. Gebr. Bing A.-G., Nuremberg, Germany. Agitator. 1,454,199; May 8.
Welskopf, Charles H., Santa Monica, assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical precipitation of suspended particles from gases. 1,454,255; May 8.
Wells, Alfred Z., and J. M. Wade, Wenatchee, Wash. Fruit-picking bucket. 1,454,779; May 8.
Wells, Benjamin N., Raleigh, N. C., assignor to The Seamless Can & Bucket Co., Baltimore, Md. Dispensing vessel. 1,454,803; May 8.
Wells, Benjamin N., Raleigh, N. C., assignor to The Seamless Can & Bucket Co., Baltimore, Md. Sheet-metal can. 1,454,802; May 8.
Wells, Joel C., and E. D. Tillyer, Southbridge, Mass., said Tillyer assignor to said Wells. Antæus glass. 1,454,200; May 8.
Wernig, Frederick A., Brooklyn, N. Y. Automobile bumper. 1,454,360; May 8.
Wereniskiold, Carl H., Brooklyn, N. Y. Terminal for electrical appliances. 1,454,359; May 8.
Wescott, William B., Wellesley, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Transparency and making the same. 1,454,418; May 8.
Wesolik, Joseph, assignor of one-quarter to E. Luetscher, Belleville, Ill., and one-half to L. Kribben, Clinton, Mass. Rail-fastening plate. 1,454,090; May 8.
West, Agnes E., Watertown, Wis. Device for bowel treatment. 1,454,302; May 8.
West, Andrew L., Knoxville, Tenn. Safe and vault door. 1,454,460; May 8.
Westbury, Alfred J. G., London, and H. Hiscock, Coulsden, England. Envelope and the like. 1,454,361; May 8.
Westerman, William. (See Sundh, A., and Westerman.)
Western Electric Company, Incorporated. (See Beatty, William E., assignor.)
Western Electric Company. (See Dean, Reginald S., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Vennes, Harald J., assignor.)
Western Electric Company. (See Vischer, Alfred, jr., assignor.)
Westinghouse Air Brake Company, The. (See Lane, George S., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company. (See Thompson, Howard A., assignor.)
Westinghouse Air Brake Company. (See Turner, Walter V., assignor.)
Weston, Eugene W., Allandale, Ontario, Canada. Toy. 1,454,094; May 8.
Whall, Richard A., and E. R. Bishop, Athol, Mass. Light screen for windshields. 1,454,498; May 8.
Whewell, James, and H. I. Yoder, Holsopple, Pa. Self-coupling for mine cars. 1,454,201; May 8.
White, Edward N., et al., trustees. (See Eldmann, Frank L., assignor.)
White, Edward N., et al., trustees. (See Tomlinson, E., and Gifford, assignors.)
White, John C., San Francisco, Calif. Machine for marking nuts. 1,454,661; May 8.
White, Nelson, Ithaca, N. Y. Money-paying device. 1,454,303; May 8.
White, S. S., Dental Manufacturing Company. (See Farnum, Leon M., assignor.)
Whitehead and Kales Co. (See Mainzinger, Harry O., assignor.)
Whitehead, Howard R. (See Gove, Henry H., assignor.)
Wiemann Company, The. (See Wiemann, William P., assignor.)
Wiemann, William P., assignor to The Wiemann Company, Pittsburgh, Pa. Magneto-electric shocking machine. 1,454,528; May 8.
Wier, Harry A. and S. A., Dallas, Tex. Means for cracking hydrocarbons. 1,454,142; May 8.
Wier, Stuart A. (See Wier, Harry A. and S. A.)
Wightman, Merle J., Seattle, Wash. Underfeed furnace. 1,454,697; May 8.
Wilbuschewitsch, Mose, Zurich, Switzerland. Apparatus for continuous extraction, particularly of oil. 1,454,419; May 8.
Wilbur, Peter L., Tuckahoe, assignor to Ampyr Manufacturing Company, Inc., New York, N. Y. Supporting bracket. 1,454,662; May 8.
Willett, Walter E., Syracuse, N. Y., assignor to Con-O-Lite Corporation, Cortland, N. Y. Water, fire, and germ proof composition. 1,454,780; May 8.
Williams, Arthur, Dorchester, Mass. Necktie and making same. 1,454,304; May 8.
Williams, William A., Columbus, Ohio. Elevator-door latch. 1,454,095; May 8.
Williamson, Samuel J. (See Challis, H. D., and Williamson.)
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Clements, Everett G., assignor.)
Willys-Overland Company, The. (See Eyster, James P., assignor.)
Willys-Overland Co., The. (See Green, Charles F., assignor.)
Wilson, Frederick D., assignor to Deere & Company, Moline, Ill. Corrugated roller. 1,454,305; May 8.
Wilson, Mamie C., et al. (See Wingo, Sara H., assignor.)
Wilson, Stephen N., et al. (See Wingo, Sara H., assignor.)
Wilt, Roy E., Arcanum, Ohio. Excavating machine. 1,454,781; May 8.
Wimmer, Edith A., Salt Lake City, Utah. Tool. 1,454,782; May 8.
Winchenbaugh, Lester P., Hyde Park, and L. Gentile, Melrose, assignors to Lester P. Winchenbaugh Company, Boston, Mass. Paper-treating machine. 1,454,362; May 8.
Winchenbaugh, Lester P., Hyde Park, and L. Gentile, Melrose, assignors to Lester P. Winchenbaugh Company, Boston, Mass. Applying coloring liquid to paper. 1,454,363; May 8.
Winchenbaugh, Lester P., Hyde Park, and L. Gentile, Melrose, assignors to Lester P. Winchenbaugh Company, Boston, Mass. Applying coloring liquid to paper. 1,454,364; May 8.
Winchenbaugh, Lester P., Company. (See Gentile, Lawrence, assignor.)
Winchenbaugh, Lester P., Company. (See Winchenbaugh, L. P., and Gentile, assignors.)
Winchester Repeating Arms Company. (See Arnold, Arthur A., assignor.)
Wingo, Sara H., San Diego, Calif., assignor of one-sixth to W. R. Humphreys, one-sixth to J. K. Taubman, one-sixth to M. C. Wilson, and one-sixth to S. N. Wilson, Lexington, Mo. Reversible cuff. 1,454,365; May 8.
Winkel, Christopher, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Seat desk. 1,454,143; May 8.
Winks, John O., San Francisco, and E. O. Bennett, Gilroy, assignors to B. L. Benson, San Francisco, Calif. Lock. 1,454,202; May 8.
Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for use in the manufacture of aldehydes. 1,454,600; May 8.
Winter, Julius. (See de Lukacsevics, C., and Wittal, assignors.)
Wintermute, Harry A., Branchville, N. J., assignor to Research Corporation, New York, N. Y. Rotary means for cleaning electrodes. 1,454,256; May 8.
Wirebounds Patents Company. (See Koch, Henry J., assignor.)

Wire Products Corporation. (See Barnes, John S., assignor.)
Wirtz, William, Cristobal, Canal Zone, Panama. Driving attachment for ice-cream freezers and the like. 1,454,203; May 8.
Wittal, Julius J. (See de Lukacsevics, C., and Wittal.)
Wittenberg, Alexander, New York, N. Y., assignor to Autosales Corporation. Coin-controlled machine. 1,454,420; May 8.
Witter, Willis D., Roselle Park, N. J., assignor to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing apparatus for oil tanks. 1,454,839; May 8.
Wohlauer, Alfred A., New York, N. Y. Electric-lighting globe. Des. 62,350; May 8.
Wolf, Robert B., New York, N. Y. Bleaching pulp and apparatus therefor. 1,454,610; May 8.
Wood, Leonard C., Alden, Iowa. Bellyband connection. 1,454,306; May 8.
Woods, Charles H., Decatur, Ill. Fare box. 1,454,096; May 8.
Workman, Ross A., Tulsa, Okla. Sheet-metal roof. 1,454,097; May 8.
Wrentmore, Ernest L., deceased, West Farmington, Ohio; (Mrs.) M. V. Wrentmore, administratrix. Motor using oil, gasoline, or gas as a fuel. 1,454,499; May 8.
Wrentmore, (Mrs.) Maude V., administratrix. (See Wrentmore, Ernest L.)
Wressell, Fisher, Alden, Iowa. Holder for safety-razor blades. 1,454,461; May 8.
Wright Manufacturing Company. (See Gunn, Walter A., assignor.)
Wright, Thomas H., Los Angeles, Calif. Monorail structure. 1,454,804; May 8.
Wright, Thomas H., Los Angeles, Calif. Turntable. 1,454,805; May 8.
Wright, Thomas H., Los Angeles, Calif. Switch device. 1,454,806; May 8.
Wright, Thomas H., Los Angeles, Calif. Swivel truck for monorails. 1,454,807; May 8.
Wright, Wilbur L., Fulton, N. Y. Greaseproofing composition and fibrous material treated thereby. 1,454,421; May 8.
Wroughton, George T., Los Angeles, Calif. Traffic-signal-operating mechanism. 1,454,808; May 8.
Wyckoff, J. Lewis, et al., trustees. (See Eidmann, Frank L., assignor.)
Wyckoff, J. Lewis, et al, trustees. (See Tomlinson, E., and Gifford, assignors.)
Wylie, Hamilton N. (See Thurston, A. P., and Wylie.)
Yardley, Charles F., Larchmont, N. Y. Rail anchor. 1,454,366; May 8.
Yardley, Charles F., Larchmont, N. Y. Rail anchor. 1,454,368; May 8.
Yardley, Farnham, assignor to Jenkins Bros., New York, N. Y. Valve-operating mechanism. 1,454,367; May 8.
Yetter, Frank J., Greenfield, Mass. Clip or staple. 1,454,783; May 8.
Yoder, Harley I. (See Whewell, J., and Yoder.)
Youngstown Pressed Steel Company, The. (See Curtis, Lewis E., assignor.)
Zadig, Ernest A., Chicago, Ill. Rectifier or converter. 1,454,144; May 8.
Zahn, Charles A., Merrill, Wis. Vehicle curtain. 1,454,098; May 8.
Zebra, Willy, New York, N. Y. Match box. 1,454,529; May 8.
Zierick, Ambrose E., New York, N. Y. Automobile lock. 1,454,099; May 8.
Zinke, Alois, Gratz, assignor to H. Pereira, Vienna, Austria. Manufacturing dioxyperylene and perylene. 1,454,204; May 8.
Zinke, Alois, Gratz, Austria. Manufacturing dioxyperylene. 1,454,205; May 8.
Zirsen, Aage N. J., Montreal, Quebec, Canada. Compound for the sharpening of tools. 1,454,369; May 8.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abeco Beverage Company, Boston, Mass. Beverages and ginger ale sold as soft drinks and extracts, flavors, sirups, etc., used in preparation of same. 168,258; May 15; Serial No. 171,605; published Feb. 27, 1923.
Acme Brick Company, Danville, Ill. Brick and tile except metal and porcelain. 168,050; May 15; Serial No. 169,666; published Feb. 20, 1923.
Alaskan Fur Company. (See Gould, F. L.)
Alberts, Jacob L., New York, N. Y. Corsets. 168,160; May 15; Serial No. 165,516; published Feb. 20, 1923.
Alexander, Lenna T., Tulsa, Okla. Hair tonic. 168,195; May 15; Serial No. 168,745; published Feb. 13, 1923.
Allbestos Corporation, Philadelphia, Pa. Brake linings. 168,270; May 15; Serial No. 168,091; published Jan. 30, 1923.
Allsilk Hosiery Mills. (See Alperson & Son.)
Alperson & Son, doing business as Allsilk Hosiery Mills, Omaha, Nebr. Hosiery. 168,068; May 15; Serial No. 164,018; published Jan. 9, 1923.
Alperowitz, M., & Son, Chicago, Ill. Hats and caps. 168,232; May 15; Serial No. 171,246; published Feb. 20, 1923.
American Bread Wrapper Company, Chicago, Ill. Paper wrappers. 168,154; May 15; Serial No. 173,160; published Feb. 13, 1923.
American Mint Company, Philadelphia, Pa. Display device. 168,060; May 15; Serial No. 170,858; published Feb. 20, 1923.
American Printing Ink Company, The, Cincinnati, Ohio. Printing inks. 168,302; May 15.
American Syrup Co., Boston, Mass. Flavoring sirups, fruit acids, and quintescences for making soft drinks, and the soft drinks made from same and distilled water. 168,040; May 15; Serial No. 172,856; published Feb. 20, 1923.
American Wholesale Corporation (Baltimore Bargain House) Baltimore, Md. Hosiery. 168,166; May 15; Serial No. 166,213; published Nov. 14, 1922.
Amsterdam & Sachs, Inc., New York, N. Y. Ladies' cloaks and wraps. 168,284; May 15.
Ardath Tobacco Company, Limited, London, England. Cigarettes. 168,255–6; May 15; Serial Nos. 171,978–9; published Feb. 27, 1923.
Armstrong Cork Company, Pittsburgh, Pa. Gaskets, washers, packing, and friction surfaces. 168,204; May 15; Serial No. 162,526; published Jan. 30, 1923.
Auto-Hone Co., The, Buffalo, N. Y. Metal-working cylindrical milling tools. 168,184; May 15; Serial No. 169,147; published Feb. 13, 1923.
Babbitt, Harve C., Boise, Idaho. Veterinary remedy for the prevention of abortion in cattle. 168,064; May 15; Serial No. 171,347; published Feb. 20, 1923.
Bankers Savings and Credit System Company, The, Cleveland, Ohio. Money receptacles or portable banks. 168,141; May 15; Serial No. 170,268; published Feb. 27, 1923.
Benedict, Charles L., doing business as The "5 in 1" Letter-Envelope Co., Toronto, Ontario, Canada. Letter sheets and mailing or correspondence envelopes and the like. 168,211; May 15; Serial No. 151,935; published Feb. 13, 1923.
Berger Brothers Company, The, New Haven, Conn. Corsets. 168,308; May 15.
Berliner, Edwin E., & Co., New York, N. Y. Cotton piece goods. 168,230; May 15; Serial No. 171,445; published Feb. 13, 1923.
Bi-Oxo-Dyn Co., Savannah, Ga. Medical preparation and urethral bland. 168,047; May 15; Serial No. 169,346; published Feb. 20, 1923.
Blatt, M. E., Co., Atlantic City, N. J. Bath robes, bathing suits, coats and suits, etc. 168,185; May 15; Serial No. 169,117; published Feb. 6, 1923.
Blumenthal, Edwin M., doing business as E. M. Blumenthal & Company, Chicago, Ill. Corn sirup used in the manufacture of nonalcoholic beverages. 168,261; May 15; Serial No. 170,677; published Feb. 27, 1923.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 168,044; May 15; Serial No. 173,164; published Feb. 13, 1923.
Boll-We-Go Manufacturing Company, Atlanta, Ga. Composition used for spraying and destroying boll weevils, etc. 168,055; May 15; Serial No. 170,053; published Feb. 6, 1923.
Bossong, Joseph C., doing business as J. C. Bossong & Co., New York, N. Y. Hosiery. 168,246; May 15; Serial No. 167,765; published Jan. 30, 1923.
Boston Clock Company, Boston, Mass. Time indicating, keeping and recording instruments. 168,289; May 15.
Brinckerhoff, M. E., San Diego, Calif. Toilet lotions. 168,097–8; May 15; Serial Nos. 163,612–12½; published Feb. 13, 1923.
Brown, May Belle L., Merrimac, Mass. Sandwich filling. 168,091; May 15; Serial No. 161,765; published Feb. 13, 1923.
Bryan, T. D., Linden, Calif. Fresh cherries. 168,100; May 15; Serial No. 163,734; published Feb. 20, 1923.
Bucher & Gibbs Plow Company, The, Canton, Ohio. Plows, plowshares, moldboards, plowpoints, landsides, etc. 168,136; May 15; Serial No. 170,473; published Jan. 9, 1923.
Burrow, Alan G., Norfolk, Va. Gasoline and volatile compositions derived from petroleum. 168,148; May 15; Serial No. 172,510; published Feb. 27, 1923.
Buxton Garment Mfg. Co., Nashua, N. H. Children's play suits. 168,144; May 15; Serial No. 170,002; published Jan. 30, 1923.
Calhoun, Robbins & Co., New York, N. Y. Hair, tooth, nail, and cloth brushes, whisk brooms, etc. 168,038; May 15; Serial No. 172,203; published Feb. 20, 1923.
Calhoun, Robbins & Co., New York, N. Y. Beaded bags, soap boxes, wash-rag cases, cretonne bags, etc. 168,039; May 15; Serial No. 172,205; published Feb. 20, 1923.
Cammeyer, New York, N. Y. Leather shoes. 168,264; May 15; Serial No. 170,272; published Feb. 27, 1923.
Capen, George H., doing business as Crow Specialties Company, Canton Junction, Mass. Hat dye. 168,065; May 15; Serial No. 171,350; published Feb. 20, 1923.
Capital City Oil Company. (See Van Druff, Leonard E.)
Chelsea Clock Company, Chelsea and Boston, Mass. Time indicating, keeping, and recording instruments. 168,288; May 15.
Chester Clothes, Inc., New York, N. Y. Men's suits, overcoats, etc. 168,215; May 15; Serial No. 138,002; published Feb. 6, 1923.
Chidester, John H., Chatham, N. J. Magnifying attachments for printing telegraphs. 168,191; May 15; Serial No. 168,918; published Feb. 20, 1923.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools, sockets, etc. 168,219; May 15; Serial No. 172,321; published Feb. 27, 1923.
Coburn, Charles H., Laconia, N. H. Compound for removing carbon from gas engines. 168,052; May 15; Serial No. 169,846; published Feb. 6, 1923.
Cole, B. E., Co., Inc., Haverhill, Mass. Leather boots and shoes. 168,265; May 15; Serial No. 170,055; published Feb. 27, 1923.
Continental Drug Corporation, St. Louis, Mo. Toilet articles and preparations. 168,058; May 15; Serial No. 170,056; published Feb. 6, 1923.
Coughlin, Frank R., assignor to Coughlin Manufacturing Co., New York, N. Y. Sized gold leaf, imitation-gold leaf, and silver leaf. 168,120; May 15; Serial No. 158,075; published Feb. 27, 1923.
Coughlin Manufacturing Co. (See Coughlin, Frank R., assignor.)
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf clubs. 168,066; May 15; Serial No. 171,622; published Feb. 20, 1923.
Crescent Shoe Co., New York, N. Y. Footwear. 168,283; May 15.
Crogan Manufacturing Company, Bangor, Me. Measuring tapes. 168,278; May 15.
Crow Specialties Company. (See Capen, George H.)
Crown Manufacturing Company, Phelps, N. Y. Cider mills and fruit presses. 168,132; May 15; Serial No. 170,809; published Feb. 20, 1923.
Crystal Window Cleaner. (See Wenger, Aaron.)
Darrish, Morris E., doing business as Marvil Garment Company, St. Louis, Mo. Ladies' suits, coats, dresses, skirts, and waists. 168,138; May 15; Serial No. 168,959; published Jan. 30, 1923.
Dermavel Laboratories. (See Martin, John H.)
De Zeng Standard Co., Camden, N. J. Diagnostic medical instruments. 168,300; May 15.
Dobson, John & James, Inc., New York, N. Y. Coats for ladies and misses. 168,282; May 15.
Dorr Company, The, New York, N. Y. Pumps and agitators and thickeners, screens, and classifiers for separating solids from liquids. 168,153; May 15; Serial No. 173,128; published Feb. 27, 1923.
Dougherty, Alice J., Flushing, N. Y. Females' house dresses, aprons, street dresses. 168,109; May 15; Serial No. 135,638; published July 26, 1921.
Dow, Jones & Company, New York, N. Y. Daily newspaper. 168,177; May 15; Serial No. 169,627; published Jan. 2, 1923.
Duplicate Whist Company, The, assignor to The United States Playing Card Company, Cincinnati, Ohio. Replay card game apparatus. 168,296; May 15.
Eastern Hat & Cap Co. Inc., New York, N. Y. Women's and children's hats. 168,161; May 15; Serial No. 165,670; published Jan. 30, 1923.
Eclipse Shoe Manufacturing Company, Mexico, Mexico. Rubber heels. 168,266; May 15; Serial No. 169,706; published Feb. 27, 1923.
Ehmann, Julius, doing business as Oliveine Laboratories, Newark, N. J. Hair tonics. 168,131; May 15; Serial No. 170,810; published Feb. 13, 1923.
Elkhart Band Instrument Company, The, Elkhart, Ind. Musical instruments and supplies. 168,129; May 15; Serial No. 170,972; published Feb. 6, 1923.

Elliott, Clyde E., New York, N. Y. Pictures to be projected upon a screen, motion-picture films, machines for taking and projecting pictures, and screens. 168,093–5; May 15; Serial Nos. 162,889–91; published Feb. 27, 1923.
Essex Rubber Company, Trenton, N. Y. Soles and heels of rubber or rubber composition. 168,307; May 15.
Eustis, J. P., Manufacturing Company, Cambridge, Mass. Soapdishes, towel bars, hand rails, bath-brush holders, sponge holders, etc. 168,089; May 15; Serial No. 161,531; published Feb. 27, 1923.
Fahys, Joseph, & Company, New York, N. Y. Plated flatware. 168,138; May 15; Serial No. 170,378; published Feb. 20, 1923.
Fairchney, G., Company, The, Watertown, N. Y. Clinical and medical thermometers, hypodermic syringes and needles. 168,167; May 15; Serial No. 166,226; published Feb. 13, 1923.
Fair, The, Chicago, Ill. Hats for men and boys. 168,291; May 15.
Fehl, Geo., Blue Ribbon Cigar Co., St. Louis, Mo. Cigars. 168,086; May 15; Serial No. 114,670; published May 9, 1922.
Fielding Publishing Company, Boston, Mass. Magazine issued monthly. 168,272; May 15; Serial No. 168,522; published Jan. 30, 1923.
Fildes, F. P., Inc., Fort Worth, Tex. Weekly periodical. 168,268; May 15; Serial No. 167,807; published Jan. 30, 1923.
Finsterwald Clothing Co., Detroit, Mich. Men's suits, overcoats, and trousers. 168,069; May 15; Serial No. 163,790; published Oct. 31, 1922.
Fireside Games Company, The, assignor to The United States Playing Card Company, Cincinnati, Ohio. Card games. 168,297; May 15.
Fisk, Katharine, Los Angeles, Calif. Boudoir bandeaux. 168,292; May 15.
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires and tubes. 168,118; May 15; Serial No. 155,812; published Jan. 30, 1923.
"5 in 1" Letter-Envelope Co., The. (See Benedict, Charles L.)
Forman-Bassett Company, The, Cleveland, Ohio. Paper, both plain and safety, designed for use in business. 168,080; May 15; Serial No. 152,007; published Dec. 26, 1922.
Foundation Sales Corporation, The, New York, N. Y. Shoes made of leather. 168,267; May 15; Serial No. 169,353; published Feb. 20, 1923.
Fox River Paper Company, Appleton, Wis. Writing paper. 168,226; May 15; Serial No. 171,990; published Feb. 13, 1923.
Freedman, Israel L., New York, N. Y. Coats for men, women, and children. 168,212; May 15; Serial No. 150,009; published Jan. 30, 1923.
Galbraith, Leslie P., Pueblo, Colo. Chemically-treated cleaning cloths for furniture, automobiles, etc. 168,048; May 15; Serial No. 169,398; published Feb. 6, 1923.
Gebr. Korte, Stahlwarenfabrik, Solingen, Germany. Razors, safety razors, mechanical strops, table knives and forks of base metal, etc. 168,163–5; May 15; Serial Nos. 165,945–7; published Feb. 27, 1923.
Germanow-Simon Machine Co., Rochester, N. Y. Machines for applying watch crystals. 168,176; May 15; Serial No. 169,632; published Feb. 13, 1923.
Gerstendorfer Bros., New York, N. Y. Varnishes, enamel paints, gilding powders, liquid gold paint, etc. 168,252; May 15; Serial No. 172,938; published Feb. 13, 1923.
Glassmire, Sara R., doing business as Infallible Hair Color Restorer Co., Philadelphia, Pa. Preparation for restoring hair. 168,310; May 15.
Good Grape Company, Chattanooga, Tenn. Nonalcoholic maltless grape drink. 168,305; May 15.
Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reenforced with fabric. 168,192; May 15; Serial No. 168,884; published Jan. 30, 1923.
Goodyear Rubber Co., San Francisco, Calif. Rubber and oiled coats and jackets. 168,121; May 15; Serial No. 158,612; published Jan. 30, 1923.
Goodyear Rubber Co., San Francisco, Calif. Rubber and oiled coats and jackets. 168,122; May 15; Serial No. 158,613; published Feb. 20, 1923.
Gould, F. L., doing business as Alaskan Fur Company, Houston, Tex. Fur garments. 168,070; May 15; Serial No. 162,401; published Feb. 20, 1923.
Grady, M. J., Company, Incorporated, The, New York, N. Y. Twine and rope or cordage made from flax or linen. 168,224; May 15; Serial No. 172,220; published Feb. 13, 1923.
Greanias, Tom G., Decatur, Ill. Cigars. 168,076; May 15; Serial No. 158,307; published Feb. 27, 1923.
Greenup Broom Co. Inc., Greenup, Ill. Brooms. 168,250; May 15; Serial No. 173,418; published Feb. 27, 1923.
Guinea Products Co. (See Judson, L. J.)
H. K. H. Silk Co., The, Watertown, Conn., and New York, N. Y. Fabrics of silk, artificial silk, cotton, and combinations of same. 168,216; May 15; Serial No. 172,474; published Feb. 13, 1923.
Haffenreffer & Co. (See New England Brewing Co.)
Hall, Hartwell & Co., Troy, N. Y. Dress, negligee, and work shirts and collars. 168,075; May 15; Serial No. 158,393; published Jan. 23, 1923.
Hall, Hartwell & Co., Troy, N. Y. Dress, negligee, and work shirts and collars. 168,083; May 15; Serial No. 136,707; published Jan. 9, 1923.
Hamilton Manufacturing Company, The, Two Rivers, Wis. Printers' and bookbinders' supplies. 168,238; May 15; Serial No. 167,043; published Feb. 13, 1923.
Havana Cigar Co., Cheyenne, Wyo. Cigars. 168,063; May 15; Serial No. 171,319; published Feb. 20, 1923.
Hawkeye Bindery Company, Des Moines, Iowa. Loose-leaf binders and books, book bindings, envelopes, letterheads, etc. 168,222; May 15; Serial No. 172,273; published Feb. 13, 1923.
Hearn, James A., & Son, Inc., New York, N. Y. Ladies' and children's flat (textile fabric) and knitted underwear. 168,198; May 15; Serial No. 165,993; published Jan. 30, 1923.
Heller & Long, New York, N. Y. Cotton piece goods. 168,151; May 15; Serial No. 172,673; published Feb. 13, 1923.
Heller, B., & Company, Chicago, Ill. Chemical preparation for purifying the air in meat-cooling rooms, refrigerators, etc. 168,235; May 15; Serial No. 171,124; published Feb. 13, 1923.
Heller, B., & Company, Chicago, Ill. Toilet-bowl or privy cleaner. 168,311; May 15.
Henderson Tire & Rubber Co., Inc., Columbus, Ohio, and Buffalo, N. Y. Rubber tires. 168,190; May 15; Serial No. 168,926; published Jan. 30, 1923.
Hendryx, Andrew B., Co., The, New Haven, Conn. Birdcage stands, screens, and hooks, chain and coil springs. 168,096; May 15; Serial No. 162,550; published Feb. 27, 1923.
Hendryx, Andrew B., Co., The, New Haven, Conn. Bird cages. 168,147; May 15; Serial No. 173,316; published Feb. 27, 1923.
Hershenstein, Solomon, doing business as S. H. Rubber Mfg. Co., New York, N. Y. Inner tubes. 168,197; May 15; Serial No. 166,000; published Jan. 30, 1923.
Hershey Flour Mills. (See Hershey, Samuel W.)
Hershey, Samuel W., doing business as S. W. Hershey Flour Mills, York, Pa. Wheat flour. 168,187; May 15; Serial No. 168,967; published Feb. 6, 1923.
Herz, Alexander, doing business as Alexander Herz Company, New York, N. Y. Paper bags. 168,046; May 15; Serial No. 173,567; published Feb. 20, 1923.
Hi-Gypsy Co. (See International Consolidated Chemical Corporation.)
Hudnut, Richard, New York, N. Y. Cleansing and vanishing creams, face powders, etc. 168,234; May 15; Serial No. 171,171; published Feb. 13, 1923.
Hyman, L., & Sons, New York, N. Y. Paper. 168,244; May 15; Serial No. 167,127; published Feb. 13, 1923.
Ideal Tire and Rubber Company, The, Cleveland, Ohio. Vehicle tires of rubber and rubber and fabric inner tubes, tire casings and shoes, etc. 168,179; May 15; Serial No. 169,401; published Jan. 30, 1923.
Inderrieden Canning Co., Chicago, Ill. Canned vegetables. 168,104; May 15; Serial No. 164,017; published Feb. 13, 1923.
Infallible Hair Color Restorer Co. (See Glassmire, Sara R.)
Ingram, Frederick F., Company, Detroit, Mich. Rouge and face powders. 168,117; May 15; Serial No. 153,884; published Feb. 13, 1923.
International Consolidated Chemical Corporation, Inc., doing business as Hi-Gypsy Co., New York, N. Y. Salve for the amelioration of soreness in fatigued human pedal extremities. 168,170; May 15; Serial No. 166,599; published Feb. 13, 1923.
International Shoe Company, St. Louis, Mo. Boots and shoes. 168,159; May 15; Serial No. 165,380; published Feb. 20, 1923.
Isola Gesellschaft für Warme- und Kälte-Isolierung, Rudolstadt, Germany. Double-walled receptacles, being evacuated between said double walls and serving for keeping cold or warm foods, drinks, etc. 168,088; May 15; Serial No. 160,608; published Feb. 27, 1923.
Jackoway & Katz Cap Co., St. Louis, Mo. Men's, boys', and children's caps. 168,259; May 15; Serial No. 171,174; published Feb. 13, 1923.
Jelly-Delaney Shoe Co., Lynn, Mass. Shoes. 168,078; May 15; Serial No. 156,330; published Feb. 27, 1923.
Jennings Manufacturing Company, The, Dayton, Ohio. Hosiery. 168,073; May 15; Serial No. 159,153; published Oct. 3, 1922.
Johnston, James, Spokane, Wash. Coffee. 168,173; May 15; Serial No. 168,315; published Feb. 20, 1923.
Judson, L. J., doing business as Guinea Products Co., Los Angeles, Calif. Ointment for the treatment of piles. 168,062; May 15; Serial No. 171,024; published Feb. 20, 1923.
Kahn, S. H., & Co., New York, N. Y. Cotton piece goods. 168,041–2; May 15; Serial Nos. 173,086–7; published Feb. 13, 1923.
Kaynee Company, The, Cleveland, Ohio. Children's and youths' one-piece pyjamas. 168,108; May 15; Serial No. 126,219; published Feb. 13, 1923.
Kelly Feature Film Co. (See Kelly, James T.)
Kelly, James T., doing business as Kelly Feature Film Co., Los Angeles, Calif. Motion-picture films issued serially. 168,135; May 15; Serial No. 170,652; published Feb. 20, 1923.
Khedival Company, The, New York, N. Y. Cigarettes. 168,306; May 15.
Kirsch, David, Montreal, Canada, and New York, N. Y. Sporting hosiery. 168,074; May 15; Serial No. 159,093; published Feb. 27, 1923.

Kleinberg, William, Rochester, N. Y. Topper coats. 168,286; May 15.
La Crosse Rubber Mills Co., La Crosse, Wis. Rubber boots and shoes. 168,262; May 15; Serial No. 170,492; published Feb. 27, 1923.
Lambert Pharmacal Company, St. Louis, Mo. Medicated tablet for relief of indigestion, ailments of the throat, etc. 168,134; May 15; Serial No. 170,770; published Feb. 13, 1923.
Lambert Tire & Rubber Company, Barberton, Ohio. Rubber cushion tires. 168,182; May 15; Serial No. 169,309; published Jan. 30, 1923.
Lemes, Benigno R., New York, N. Y. Automatic pistols, revolvers, shotguns, and rifles. 168,299; May 15.
Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. 168,082; May 15; Serial No. 138,771; published Feb. 27, 1923.
Lingua, G., & Co., Los Angeles, Calif. Olive oil. 168,158; May 15; Serial No. 165,237; published Feb. 13, 1923.
Lob, Hubbart & Silverman, New York, N. Y. Men's and young men's suits and coats. 168,079; May 15; Serial No. 153,550; published May 23, 1922.
Long, Chas. R., Jr., Co., Louisville, Ky., and Chicago, Ill. Polish and coating for the front ends and stacks of locomotives. 168,107; May 15; Serial No. 60,550; published Apr. 30, 1918.
Lynch Heel Company, Chelsea, Mass. Rubber heels. 168,071; May 15; Serial No. 161,490; published Feb. 27, 1923.
McRae, Estella M., Tacoma, Wash. Petticoat. 168,110; May 15; Serial No. 135,972; published Feb. 6, 1923.
Mabley & Carew Company, The, Cincinnati, Ohio. Cloaks, wraps, and suits for ladies. 168,183; May 15; Serial No. 169,174; published Jan. 30, 1923.
Magnolia Metal Company, New York, N. Y. Babbitt, bearing, and antifriction metals and alloys. 168,189; May 15; Serial No. 168,930; published Jan. 9, 1923.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 168,043; May 15; Serial No. 173,138; published Feb. 13, 1923.
Mann, William, Company, Philadelphia, Pa. Pass books. 168,155; May 15; Serial No. 173,266; published Feb. 13, 1923.
Mappin & Webb, Limited, Sheffield and London, England. Manicure scissors, nail clippers, files, and tweezers. 168,123; May 15; Serial No. 159,476; published Feb. 27, 1923.
Mappin & Webb, Limited, Sheffield and London, England. Lancets, fleams, and surgical scissors. 168,124; May 15; Serial No. 159,477; published Feb. 27, 1923.
Marshall Field & Company, Chicago, Ill. Ladies' hosiery. 168,196; May 15; Serial No. 166,058; published Jan. 30, 1923.
Marshall Field & Company, Chicago, Ill. Hairpins, common pins, hand sewing needles, crochet hooks, lace pins, etc. 168,205; May 15; Serial No. 161,546; published Feb. 6, 1923.
Marshall, Robert S., doing business as The Steenburg Fur Company, Gloversville, N. Y. Preparation for prevention of moths. 168,130; May 15; Serial No. 170,826; published Feb. 13, 1923.
Martin, John H., doing business as Dermavel Laboratories, New York, N. Y. Toilet clay. 168,233; May 15; Serial No. 171,180; published Feb. 13, 1923.
Marvel Equipment Company, The, Cleveland, Ohio. Liquid measuring and dispensing pumps. 168,128; May 15; Serial No. 170,985; published Feb. 20, 1923.
Marvil Garment Company. (See Darrish, Morris E.)
Maryland Company, The, Baltimore, Md. Children's overall play suits. 168,084; May 15; Serial No. 129,239; published June 1, 1920.
Mason, David, doing business as Elinette Co., New York, N. Y. Toilet preparations—namely, toilet water, powder, cream, etc. 168,119; May 15; Serial No. 157,330; published Feb. 13, 1923.
Merton, Charles S., & Co., Rutherford, N. J. Hats and caps. 168,102; May 15; Serial No. 164,716; published Feb. 6, 1923.
Meyers, Louis, & Son, New York, N. Y. Fabric gloves. 168,279; May 15.
Miller, Samuel, doing business as Samuel Miller & Company, New York, N. Y. Hats for men and boys. 168,280; May 15.
Modern Pharmacal Co., Inc., New York, N. Y. Tonics for aiding digestion, improving the appetite, purifying the blood, etc. 168,106; May 15; Serial No. 164,810; published Feb. 13, 1923.
Modishform Brassière, Inc., New York, N. Y. Brassières and corsets. 168,281; May 15.
Mojonnier, Frederick E., doing business as Walla Walla Hothouse Vegetable Co., Walla Walla, Wash. Fresh vegetables. 168,105; May 15; Serial No. 164,935; published Feb. 20, 1923.
Montague, W. R., Company, The, La Crosse, Wis. Candy. 168,285; May 15.
Montrose Glove Inc., The, Brooklyn, N. Y. Leather and fabric gloves, hosiery, and underwear. 168,274; May 15; Serial No. 168,584; published Feb. 6, 1923.
Morgan, A. S., doing business as The Morgan Products Co., Toledo, Ohio. General cleaning compound with incidental water-softening properties and for soaps. 168,171; May 15; Serial No. 166,843; published Feb. 13, 1923.
Morgan Products Co., The. (See Morgan, A. S.)
Moseley, Benjamin, Co., The, Needham, Mass. Hosiery. 168,273; May 15; Serial No. 168,543; published Jan. 30, 1923.
National Association of Electrical Contractors and Dealers, New York, N. Y. Monthly magazine. 168,239; May 15; Serial No. 167,052; published Jan. 30, 1923.
National Blank Book Co., Holyoke, Mass. Loose-leaf ledgers. 168,253; May 15; Serial No. 172,548; published Feb. 27, 1923.
Naturaline Corset Company, Boston, Mass. Corsets. 168,202; May 15; Serial No. 164,601; published Jan. 30, 1923.
Nelson, H. W., Chicago, Ill. Electrical therapeutic lamp for raying bodies. 168,172; May 15; Serial No. 166,844; published Feb. 13, 1923.
New England Brewing Company, doing business as Haffenreffer & Co., Boston, Mass., and Jersey City, N. J. Beverages sold as soft drinks and extracts, flavors, etc., for making same. 168,257; May 15; Serial No. 171,651; published Feb. 27, 1923.
New York Consolidated Card Co., The, Long Island City, N. Y. Playing cards. 168,260; May 15; Serial No. 171,027; published Feb. 27, 1923.
Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 168,248; May 15; Serial No. 173,660; published Feb. 27, 1923.
Nickels & Lauber, Inc., Philadelphia, Pa. Hosiery, scarfs, neckties, and mufflers. 168,186; May 15; Serial No. 169,071; published Jan. 30, 1923.
Norcross, Orville M., doing business as O. M. Norcross Co., Pemberton, N. J. Vegetable-oil liniment for relief of aches, pains, cuts, etc. 168,049; May 15; Serial No. 169,603; published Feb. 20, 1923.
Nu-Shyne Sope-Olish Co., Philadelphia, Pa. Polishes for automobile bodies, furniture, pianos, etc. 168,287; May 15.
Oberman, D., Mfg. Co., Jefferson City, Mo. Overalls, jackets, and combination outer suits. 168,294; May 15.
O'Connor, T. J., & Sons, Incorporated, Baltimore, Md. Men's belts. 168,178; May 15; Serial No. 169,557; published Jan. 30, 1923.
Ollveine Laboratories. (See Ehmann, Julius.)
Olympia Knitting Mills, Inc., Olympia, Wash. Knitted sweaters, caps, toques, gloves, socks, etc. 168,209; May 15; Serial No. 153,616; published Jan. 30, 1923.
Ombrelo, Inc., New York, N. Y. Storm protective covering. 168,162; May 15; Serial No. 165,757; published Feb. 6, 1923.
Optica Limited, London, England. Ophthalmic and spectacle lenses. 168,115; May 15; Serial No. 151,686; published Feb. 20, 1923.
Overman Cushion Tire Company, Inc., New York, N. Y. Rubber tires. 168,241–3; May 15; Serial Nos. 167,093–5; published Jan. 30, 1923.
Owens, Michael, St. Louis, Mo. Men's and boys' suits. 168,174; May 15; Serial No. 168,547; published Feb. 6, 1923.
Pagonis, George, doing business as George Pagonis Co., New York, N. Y. Hair tonic, toilet waters, colognes, and cold creams. 168,276; May 15; Serial No. 168,725; published Feb. 13, 1923.
Paraffine Companies, Inc., The, San Francisco, Calif. Folding boxes. 168,045; May 15; Serial No. 173,205; published Feb. 20, 1923.
Park & Tilford, New York, N. Y. Sweet cider, grape juice, grenadine sirup, etc. 168,251; May 15; Serial No. 173,003; published Feb. 27, 1923.
Parker, Roland T., New York, N. Y. Safety-razor-blade-stropping holders. 168,269; May 15; Serial No. 167,924; published Feb. 13, 1923.
Parks & Parks, Inc., Troy, N. Y. Shoe brushes. 168,249; May 15; Serial No. 173,528; published Feb. 27, 1923.
Patch, E. L., Company, The, Stoneham, Mass. Healing ointment for burns, boils, eruptions, etc. 168,127; May 15; Serial No. 171,100; published Feb. 13, 1923.
Paull, Hans, Des Moines, Iowa. Advertising pamphlets, circulars, bulletins, and supplements. 168,143; May 15; Serial No. 170,078; published Jan. 30, 1923.
Paz, C. Barletta, New Orleans, La. Nerve tonic. 168,114; May 15; Serial No. 151,019; published Feb. 20, 1923.
Peck, Stow & Wilcox Co., The, Southington, Conn. Pliers. 168,150; May 15; Serial No. 172,613; published Feb. 27, 1923.
Pee-Chee Cleaner Manufacturing Company, The, Cleveland, Ohio. Shoe enamels, shoe polishes, shoe-cleaning compositions, also cleaning compositions for silver and gold. 168,054; May 15; Serial No. 170,033; published Feb. 6, 1923.
Peerless Knitting Co., Milwaukee, Wis. Sweaters. 168,293; May 15.
Perrin, V., & Cie., Grenoble, France; London, England; and New York, N. Y. Fabric gloves. 168,263; May 15; Serial No. 170,539; published Feb. 20, 1923.
Pierce Governor Company, The, Anderson, Ind. Device used in connection with internal-combustion engines for stopping the same. 168,181; May 15; Serial No. 169,321; published Feb. 13, 1923.
Pioneer Manufacturing Company, The, Cleveland, Ohio. Roofing cement. 168,213; May 15; Serial No. 141,870; published Feb. 6, 1923.
Podawiltsikoff, Fred, Kamsack, Saskatchewan, Canada. Liquid medicinal preparations for the treatment of open wounds of animals. 168,210; May 15; Serial No. 152,479; published Jan. 2, 1923.

Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 168,301; May 15.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,168; May 15; Serial No. 166,245; published Jan. 30, 1923.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,236; May 15; Serial No. 166,254; published Jan. 30, 1923.
Q-B Manufacturing Co., The, Chicago, Ill. Carbon removers for internal-combustion engines. 168,101; May 15; Serial No. 164,512; published Jan. 2, 1923.
Radio Hat Co. Inc., New York, N. Y. Ladies' hats. 168,113; May 15; Serial No. 150,203; published Jan. 16, 1923.
Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi, Inc., Portland, Oreg. Hops. 168,200; May 15; Serial No. 165,414; published Feb. 6, 1923.
Remilier Co., The, New York, N. Y. Soap. 168,218; May 15; Serial No. 172,353; published Feb. 20, 1923.
Republic Varnish Company, Newark, N. J. Ready-mixed paint, varnish, and pain t enamel. 168,298; May 15.
Rice-Stix Dry Goods Company, St. Louis, Mo. Pyjamas, nightshirts, and night coats, beach coats, gymnasium coats, etc. 168,194; May 15; Serial No. 168,802; published Feb. 6, 1923.
Ristel Manufacturing Company, Los Angeles, Calif. Refrigerators. 168,229; May 15; Serial No. 171,553; published Feb. 13, 1923.
Rochester Toy Company, Rochester, N. Y. Three-wheeled carts. 168,085; May 15; Serial No. 121,785; published Feb. 20, 1923.
Rosenbaum Brothers, Salt Lake City, Utah. Men's and boys' work shirts. 168,072; May 15; Serial No. 160,901; published Aug. 29, 1922.
Rosenblum, Abe, Brooklyn, N. Y. Fresh potatoes, onions, apples, and carrots. 166,227; May 15; Serial No. 171,656; published Feb. 20, 1923.
Ross, Sydney, Co., The, Newark, N. J. Preparations for treatment of la grippe, influenza, coughs, colds, etc. 168,053; May 15; Serial No. 160,985; published Feb. 6, 1923.
Royal Worcester Corset Company, Worcester, Mass. Corsets, corset waists, brassières, bandeaux, belts, etc. 168,146; May 15; Serial No. 169,650; published Feb. 20, 1923.
S. & P. Novelty Co. (See Stoner, Harry W.)
S. H. Rubber Mfg. Co. (See Hershenstein, Solomon.)
Saalfield Publishing Company, The, Akron, Ohio. Cookbook. 168,203; May 15; Serial No. 162,858; published Jan. 30, 1923.
Safchik & Company, New York, N. Y. Fur garments and women's coats with fur trimmings. 168,112; May 15; Serial No. 147,895; published Mar. 7, 1922.
Savage Arms Corporation, New York, N. Y. Electric clothes-washing machines. 168,145; May 15; Serial No. 169,694; published Feb. 20, 1923.
Savoy Importing Co., Inc., New York, N. Y. Tunny fish, macaroni, tomatoes, mixed pickles, etc. 168,099; May 15; Serial No. 163,712; published Feb. 27, 1923.
Saxophone Shop, The, Chicago, Ill. Saxophones. 168,133; May 15; Serial No. 170,790; published Feb. 20, 1923.
Sayre, L. A., Co., Newark, N. J. Hatchets. 168,142; May 15; Serial No. 170,158; published Feb. 13, 1923.
Schield, Wm., Mfg. Co., St. Louis, Mo. Lye. 168,245; May 15; Serial No. 167,270; published Feb. 13, 1923.
Scott, William J., doing business as Scott's Laboratories, Chicago, Ill. Toilet preparations. 168,295; May 15.
Scott's Laboratories. (See Scott, William J.)
Seminole Remedy Co. (See Shields, Henry H.)
Sherwin-Williams Company, Cleveland, Ohio. Paint, paint enamels, japans, stains, etc. 168,111; May 15; Serial No. 145,131; published Feb. 20, 1923.
Shields, Henry H., doing business as Seminole Remedy Co., Louisville, Ky. Preparation for the treatment of rheumatism, kidney, and bladder trouble, neuralgia, etc. 168,056; May 15; Serial No. 170,259; published Feb. 20, 1923.
Smith, M. E., & Co. Inc., Omaha, Nebr. Children's suits of washable materials. 168,067; May 15; Serial No. 164,835; published Nov. 28, 1922.
Smith, W. C., Glove Co. Inc., Gloversville, N. Y. Gloves and mittens. 168,309; May 15.
Societe Des Produits Chimiques de L'Isle Saint-Denis, Saint-Denis, Seine, France. Preparations for the treatment of tuberculosis. 168,169; May 15; Serial No. 166,579; published Feb. 13, 1923.
Sodiphene Company, The, Kansas City, Mo. Antiseptic germicide. 168,312; May 15.
Somersville Manufacturing Co., Somersville, Conn. Woolen fabrics. 168,303; May 15.
Standard Oil Company, Incorporated in New Jersey, Bayonne, N. J. White mineral oil. 168,137; May 15; Serial No. 170,410; published Feb. 13, 1923.
Standard Optical Co., The, Geneva, N. Y. Spectacle and eyeglass rims. 168,214; May 15; Serial No. 139,433; published Feb. 13, 1923.
Stanley Works, The, New Britain, Conn. Vises, bit braces, planes, nail sets, hammers, etc. 168,149; May 15; Serial No. 172,562; published Feb. 20, 1923.
Stanley Works, The, New Britain, Conn. Vises, bit braces, planes, nail sets, hammers, etc. 168,225; May 15; Serial No. 172,063; published Feb. 20, 1923.
Star Expansion Bolt Company, New York, N. Y. Stamped metal products. 168,116; May 15; Serial No. 152,729; published Feb. 27, 1923.
Starr Fruit Products Co., Portland, Oreg. Canned fruits and vegetables. 168,201; May 15; Serial No. 164,974; published Feb. 6, 1923.
Steenburg Fur Company, The. (See Marshall, Robert S.)
Stein, A., & Company, Chicago, Ill. Undergarments of textile fabric. 168,157; May 15; Serial No. 165,218; published Jan. 30, 1923.
Stemco Engineering Company, The, Dayton, Ohio. Gasoline gauges. 168,180; May 15; Serial No. 169,337; published Jan. 2, 1923.
Stockton Commission Co. Inc., New York, N. Y. Endless woven cord fabrics for use in the manufacture of tires and fabric belting. 168,092; May 15; Serial No. 162,315; published Feb. 20, 1923.
Stoner, Harry W., doing business as S. & P. Novelty Co., Trenton, N. J. Condiment holder. 168,140; May 15; Serial No. 170,315; published Feb. 20, 1923.
Sweet, Dominick, trading as The Sweet Manufacturing Company, North Side, Pittsburgh, Pa. Medicines and toilet preparations. 168,277; May 15.
Sweet Manufacturing Company, The. (See Sweet, Dominick.)
Taylor, Walter C., Hickory, N. C. Hosiery. 168,290; May 15.
Textile Mfg. Co., The, Chester, Pa. Artificial-silk, worsted, and mixed artificial-silk and worsted yarns. 168,221; May 15; Serial No. 172,299; published Feb. 20, 1923.
Thexton & Wright Ltd., London, England, and New York, N. Y. Men's ready-made clothing. 168,087; May 15; Serial No. 160,810; published Feb. 13, 1923.
Tobacco Products Corporation, New York, N. Y. Cigarettes. 168,247; May 15; Serial No. 174,371; published Feb. 27, 1923.
Tobin Chemical Co. (See Tobin, David.)
Tobin, David, doing business as Tobin Chemical Co., Boston, Mass. Stove polish. 168,059; May 15; Serial No. 170,316; published Feb. 6, 1923.
Toch Brothers, assignors to Toch Brothers Incorporated, New York, N. Y. Ready-mixed paints and japan driers. 168,090; May 15; Serial No. 161,593; published Oct. 31, 1922.
Tsuchiya, Inosuke, San Francisco, Calif. Bamboo rakes. 168,156; May 15; Serial No. 173,308; published Feb. 27, 1923.
Unico Motor Products Corporation, St. Louis, Mo. Piston or packing rings. 168,237; May 15; Serial No. 166,333; published Jan. 30, 1923.
Union Asbestos & Rubber Company, Chicago, Ill. Compressed-asbestos-fiber-sheet machinery packing. 168,190; May 15; Serial No. 165,468; published Jan. 30, 1923.
Union Oil Company of California, Los Angeles, Calif. Petroleum tailings, road, residual, black and fuel oils. 168,103; May 15; Serial No. 164,782; published Feb. 20, 1923.
United States Hammered Piston Ring Co., Irvington, N. J. Piston rings. 168,081; May 15; Serial No. 140,477; published Dec. 26, 1922.
United States Playing Card Company, The. (See Fireside Game Company, assignor.)
United States Playing Card Company, The. (See Duplicate Whist Company, assignor.)
Universal Laboratories, Inc., Los Angeles, Calif. Antpoisoning fluid compound. 168,231; May 15; Serial No. 171,342; published Feb. 13, 1923.
Van Druff, Leonard E., doing business as Capital City Oil Company, Council Bluffs, Iowa. Fuel, illuminating, and lubricating oils and greases. 168,304; May 15.
Vanity Brassiere Company Inc., New York, N. Y. Bandeaux and brassières. 168,077; May 15; Serial No. 156,557; published July 11, 1922.
Vedoe-Peterson Company, Quincy, Mass. Reamers and groove cleaners. 168,217; May 15; Serial No. 172,454; published Feb. 27, 1923.
Wager Manufacturing Company, The. (See Wager, Robert H.)
Wager, Robert H., assignor to The Wager Manufacturing Corporation, Jersey City, N. J. Shaving-lather-forming devices. 168,193; May 15; Serial No. 168,815; published Feb. 13, 1923.
Walla Walla Hothouse Vegetable Co. (See Mojonnier, Frederick E.)
Wallace, Charles J., doing business as C. J. Wallace and Co., assignor to C. J. Wallace Co., Inc., Duluth, Minn. Hand lotion, toilet water, face and talcum powder, etc. 168,207; May 15; Serial No. 158,203; published Feb. 13, 1923.
Wallach & Mayer, Inc., New York, N. Y. Hosiery. 168,175; May 15; Serial No. 168,442; published Jan. 30, 1923.
Wallin Mfg. Co., St. Paul, Minn. Shoe-shining brushes. 168,254; May 15; Serial No. 172,306; published Feb. 27, 1923.
Warne, William, and Company, Limited, London, England. Catheters, esophagus tubes, rectal tubes, and cup funnels. 168,228; May 15; Serial No. 171,603; published Feb. 27, 1923.
Watts, Richard J., doing business as Watts Mfg. Co., Boston, Mass. Garment supporters. 168,206; May 15; Serial No. 160,841; published Feb. 6, 1923.

Wedler-Shuford Company, The, St. Louis, Mo. Attachment for automatically controlling the carburetor and indicating the temperature of internal-combustion engines. 168,271; May 15; Serial No. 168,187; published Feb. 13, 1923.
Wenger, Aaron, doing business as Crystal Window Cleaner, Bayonne, N. J. Window squeegee. 168,057; May 15; Serial No. 170,261; published Feb. 20, 1923.
Whitaker, Ralph W., New York, N. Y. Hair dressing. 168,051; May 15; Serial No. 169,837; published Feb. 6, 1923.
Wilkin & Adler, Inc., New York, N. Y. Camel's-hair cloth in the piece. 168,152; May 15; Serial No. 172,710; published Feb. 13, 1923.
Williams, J. H., & Co., Brooklyn, N. Y. Pipe wrenches. 168,223; May 15; Serial No. 172,249; published Feb. 20, 1923.
Wilson & Glenny, Ltd., Hawick, Scotland. Men's overcoats, suits, caps, shirts, collars, and shoes of leather, rubber, etc. 168,125; May 15; Serial No. 159,909; published Feb. 27, 1923.
Wingen, Anton, jr., Solingen, Germany. Razors and scissors. 168,126; May 15; Serial No. 160,169; published Feb. 27, 1923.
Wood, De Forrest, Kipton, Ohio. Insecticide. 168,061; May 15; Serial No. 170,917; published Feb. 20, 1923.
Woods, Charles G., jr., doing business as C. G. Woods Chemical Co., Glendale, Calif. Poisonous mixtures for the destruction of rats and rodents. 168,139; May 15; Serial No. 170,346; published Feb. 6, 1923.
Ynnd, Kennedy & Ynnd, Amsterdam, N. Y. Knitted outer wear. 168,275; May 15; Serial No. 168,657; published Feb. 13, 1923.
Zublin, John A., doing business as Zublin Tool Company, Los Angeles, Calif. Oil-well drills. 168,220; May 15; Serial No. 172,312; published Feb. 27, 1923.
Zublin Tool Co., The. (See Zublin, John A.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Malt Products Co. (See Krepstman, Samuel.)
Biloxi Packing and Trading Company, Inc., Biloxi, Miss. American Beauty. For Tin Cans Containing Shrimp. 25,925; May 15.
Frank, Walter, Milwaukee, Wis. Cheese-Treats. For Cheese. 25,927; May 15.
Fraser, Mary, Candies, Inc., Los Angeles, Calif. Mary Fraser Candies. For Candies. 25,928; May 15.
Frigid Fruits Corporation, Nashville, Tenn. Frigid Fruits. For Frozen Candy Confection. 25,929; May 15.
Frisch, Emile, Chicago, Ill. Bond Bread. For Bread. 25,930; May 15.
Fort Howard Paper Company, Green Bay, Wis. Nile Queen. For Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths. 25,926; May 15.
Gill Brothers Company, Steubenville, Ohio. No. 2 Tru Lite Acme. For Lamp Chimneys. 25,931; May 15.
Gill Brothers Company, Steubenville, Ohio. No. 2 Tru Lite O K. For Lamp Chimneys. 25,932; May 15.
Henschel, A. C., & Co., Chicago, Ill. Corona Del Java. For Cigars. 25,933; May 15.
Henschel, A. C., & Co., Chicago, Ill. William Burdell. For Cigars. 25,934; May 15.
Hopewell Chocolate Company, Inc., Hopewell, N. J. Chocolate Covered Cherries. For A Pasteboard Box Containing an Article of Confectionery. 25,935; May 15.
Hub Hosiery Mills, Boston, Mass. Wooly-Lamb. For Infants' Hose. 25,936; May 15.
Jenkins, Krecr & Co. Inc., Chicago, Ill. Jay-Kay Khaki. For Cotton Piece Goods, Khaki Colored. 25,937; May 15.
Kellogg Company, Battle Creek, Mich. Kellogg's Bran. For Cereal Breakfast Food. 25,939; May 15.
Kellogg Company, Battle Creek, Mich. Kellogg's Corn Flakes. For Cereal Breakfast Food. 25,938; May 15.
Krepstman, Samuel, doing business as American Malt Products Co., New York, N. Y. Mayflower-Brand. For Malt Extract. 25,940; May 15.
Kroeze, Nicholas V., Paterson, N. J. White Pine Expectorant. For Cough Sirup. 25,941; May 15.
Maxime Drug Co. (See Robins, Max.)
Rogers Laboratory, The. (See Rogers, Wm. J.)
Rogers, Wm. J., doing business as The Rogers Laboratory, St. Paul, Minn. Rogers Developing Powders. For Containers for a Powder for the Developing of Latent Prints. 25,943; May 15.
Robins, Max, doing business as Maxime Drug Co., Chicago, Ill. Neo. For a Preparation for Destroying Bugs. 25,942; May 15.
Steiner, Emil E., Glendale, Calif. Vegetone. For Stomach Relief Remedy. 25,944; May 15.
United States Bronze Powder Works, Inc., New York, N. Y. United States Bronze Powder Works. For Bronze Powder. 25,945–6; May 15.
Westcott, Slade and Balcom Company, Providence, R. I. Anti-Fouling Boat Bottom Paint. For Boat Paint. 25,947; May 15.
Weyer, George H., St. Joseph, Mo. Pom Po-Lay. For Preparation Suitable for the Treatment of the Hair. 25,948; May 15.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Hartmann Trunk Company, Racine, Wis. Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. 6,703; May 15.
Haynes Automobile Company, The, Kokomo, Ind. Haynes, For Automobiles. 6,704; May 15.
Hirsch's Hair Bazaar Inc., St. Louis, Mo. Ask for the Hirschnet. For Hair Nets. 6,705; May 15.
Kirk, James S., & Company, Chicago, Ill. Kirk's Cocoa Hardwater Castile. For Soap. 6,706; May 15.
Lawton, Thomas, New York, N. Y. We Sell Dr. Lawton's Guaranteed Fat Reducer. For Surgical Appliances. 6,707; May 15.
Maxime Drug Co. (See Robins, Max.)
Palmolive Company The, Milwaukee, Wis. Face to Face. For Palmolive Soap. 6,708; May 15.
Robins, Max, doing business as Maxime Drug Co., Chicago, Ill. Neo Bug Destroyer. For A Preparation for Destroying Bugs. 6,709; May 15.
Thermalene Gas Corporation, Kankakee, Ill. Thermalene Gas for Cutting & Welding. For Generators for Producing Gas. 6,710; May 15.
White Company, The, Cleveland, Ohio. White Trucks. For Motor Trucks. 6,711; May 15.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Orchard Co., Inc., White Salmon, Wash. Fresh apples. 176,149; May 15.
Adams, Alonzo H., doing business as Exhaust Lock Company, Indianapolis, Ind. Steering-post control and exhaust lock. 176,435; May 15.
Allen Hydrostatic Pump Syndicate Ltd., Westminster, London, England. Pumping apparatus utilizing hydrostatic pressure for raising liquids. 174,191; May 15.
Aller Brothers, Chicago, Ill. Pins, hairpins, safety pins, elastics, and hair nets. 173,890; May 15.
American Abrasive Metals Company, New York, N. Y. Cast metal used for agitating or stirring mineral, etc. 177,464; May 15.
American Cash Register Co., Saginaw, Mich. Cash registers. 175,909; May 15.
American Hard Rubber Company, Hempstead and New York, N. Y. Combs. 173,024; May 15.
American Pickle & Canning Co., Hattiesburg, Miss. Pickles and canned vegetables. 166,621; May 15.
American Tea & Coffee Co., Inc., Nashville, Tenn. Spices. 141,447; May 15.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Hosiery. 170,613; May 15.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper, and mailing envelope. 175,540; May 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Andrews Brothers Company, Inc., Pittsburgh, Pa. Fresh citrous fruits and fresh vegetables. 176,152; May 15.
Asiatic Import Co. Inc., New York, N. Y. Toy animals. 177,029; May 15.
Atlantic Steel Company, Atlanta, Ga. Wire fences. 176,531; May 15.
Atlas Baking Company, Chicago, Ill. Cakes and bread. 166,623; May 15.
Automatic Refrigerating Company, The, Hartford, Conn. Refrigerating apparatus. 177,644; May 15.
Ball, F. M., & Company, San Francisco, Calif. Canned fruits and vegetables. 174,229; May 15.
Bankee Corporation of America, Los Angeles, Calif. Trading stamps and coupons, booklets, etc. 175,421; May 15.
Banning Canning Co,, Banning, Calif. Canned fruits. 164,299; May 15.
Bariscillo, John J., doing business as Tonsitol Laboratories, Asbury Park, N. J. Preparation for the treatment of tonsillitis, hoarseness, quinsy, etc. 175,641; May 15.
Bates Valve Bag Company, Chicago, Ill. Bag filling and packaging machinery. 177,539; May 15.
Battle Creek Food Company, The, Battle Creek, Mich. Corn sugar. 175,702; May 15.
Battle Creek Food Company, The, Battle Creek, Mich. Laxative. 175,839; May 15.
Bauermeister, Chas. W., Co. Inc. Olives, allspice, savory, mustard, pepper, sage, thyme, etc. 166,932; May 15.
Baxter, Burton E., doing business as B. E. Baxter Co., Whitney Point, N. Y. Graining liquid. 176,395; May 15.
Becker Paper Corporation, New York, N. Y. Writing and bond paper. 178,209; May 15.
Benetol Company, The. (See Carel, Hubert C.)
Bern, Philip S., doing business as Philsbern Products Co., New York, N. Y. Furniture and automobile polishes with incidental properties as metal polishes. 174,505; May 15.
Biel, Conrad E., doing business as Denver Optic Company, Denver, Colo. Artificial eyes. 178,211; May 15.
Biltrite Collar Co. (See Cohen, Harry and Charles.)
Blackburn Varnish Co., The, Cincinnati, Ohio. Varnish and varnish stains. 176,784; May 15.
Blue Bird Inc. Perfumers, New York, N. Y. Hair preparations. 174,686; May 15.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,764; May 15.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,766; May 15.
Bonney Forge & Tool Works, Philadelphia and Allentown, Pa.; Chicago, Ill., and New York, N. Y. Tappet wrenches. 173,993; May 15.
Borgfeldt, George, & Co., New York, N. Y. Dolls. 175,338; May 15.
Bost, William D., Chicago, Ill. Beverages sold as soft drinks and sirups, etc., for making same. 176,444; May 15.
Bradley-Wise Paint Company, Los Angeles, Calif. Paints, varnishes, paint enamels, dry colors. 172,464; May 15.
Brawner, Henry N., jr., doing business as Chestnut Farms Dairy, Washington, D. C. Raw and pasteurized milk, butter, eggs, and cheese. 161,349; May 15.
Brawner, Henry N., jr., doing business as Chestnut Farms Dairy, Washington, D. C. Butter, eggs, and cheese. 170,707; May 15.
Briones & Company, Inc., New York, N. Y. Olive oil. 167,039; May 15.
Brownstein-Louis Co., Los Angeles, Calif. Textile fabrices of cotton, wool, silk, and mixtures in the piece. 176,160; May 15.
Buettner, T., & Co., Chicago, Ill. Pure linen in the piece, linen table covers and napkins. 177,895; May 15.
Bureau of Formulas. (See Wiegand, William D., assignor.)
Byrne, Kingston & Co., Kokomo, Ind. Vacuum feed systems for motor vehicles. 171,724; May 15.
C & T Importing Company, San Francisco, Calif. Tea. 171,984; May 15.
California Growers Association, Inc., Los Angeles, Calif. Canned fruits and canned vegetables, jams, preserves, dried fruits, etc. 169,844; May 15.
Canfield, Rubber Company The, Bridgeport, Conn. Dress shields. 166,292; May 15.
Capital City Bottling Company. (See Eisenberg, M. L.)
Carbo-Sul Corporation, New York, N. Y. Insecticides. 174,609; May 15.
Carel, Hubert C., doing business as The Benetol Company, Minneapolis, Minn. Pharmaceutical preparations. 163,859; May 15.
Carroll, John A., doing business as Liquid Wrench Company, Schenectady, N. Y. Compound for loosening tight nuts on bolts and lubricating leaf springs. 177,726; May 15.
Carter Dry Goods Co., Louisville, Ky. Percales in the piece. 169,002; May 15.
Carter Dry Goods Co., Louisville, Ky. Madras in the piece. 169,004; May 15.
Carter Dry Goods Co., Louisville, Ky. Percales in the piece. 169,006; May 15.
Chance, Albert B., doing business as Chance Company, Centralia, Mo. Anchor rods. 176,324; May 15.
Chestnut Farms Dairy. (See Brawner, Henry N., jr.)
Chinook Packing Company, Chinook, Wash. Canned salmon. 170,927; May 15.
Citrus Sales Corporation, Tampa, Fla. Fresh citrous fruits. 171,903; May 15.
Clifton Laboratories. (See Reed, Charles A. L.)
Cleveland Wire Spring Company, doing business as Ohio Spring Bed Company, Cleveland, Ohio. Bed springs. 175,465–6; May 15.
Cohen, Harry and Charles, doing business as Biltrite Collar Co., New York, N. Y. Collars. 171,151; May 15.
Collins Mfg. Co., Holyoke, Mass. Bond writing and printing paper. 168,836; May 15.
Comet's California Orange Drink Co., Los Angeles, Calif. Nonalcoholic, maltless orange drink. 176,452; May 15.
Cooknut Corporation, The, Baltimore, Md. Vegetable lard substitute. 175,651; May 15.
Cooknut Corporation, The, Baltimore, Md. Cottonseed oil. 175,652; May 15.
Coverdale & Bruebaker, Sioux City, Iowa. Sherbet bars. 168,633; May 15.
Czechoslovak Art Shop Inc., Newark, N. J., and New York, N. Y. Chinaware. 172,032; May 15.
Davis, Paul P., doing business as Ucoline Products Co., Cincinnati, Ohio. Hair tonic. 174,690; May 15.
Deachman, T. Wilson, Chicago, Ill. Autogenous product in the nature of urine vaccine. 167,868; May 15.
Dean, Edwin, Hoboken, N. J. Candy. 169,435; May 15.
Dean, O. W., Company, The, Benton Harbor, Mich. Medicine for use in the treatment of ailments of the liver, stomach, and bowels and as a blood purifier. 174,958; May 15.
Delacour Bros., Ltd., London, England. Tobacco pipes. 177,429; May 15.
Delacour Brothers, Ltd., London, England. Tobacco pipes. 178,377–8; May 15.
Denver Optic Company. (See Biel, Conrad E.)
Des Lauriers Metal Products Co. Inc., St. Paul, Minn. Milk-shipping cans and cans for packing and shipping ice cream. 178,233; May 15.
De Zon, Florie, Detroit, Mich. Preparation for the treatment of hair and scalp. 174,130; May 15.
Dillard & Keene Co., Eustis, Fla. Fresh citrous fruits. 172,668; May 15.
Duffy, F. S., doing business as The F. S. Duffy Medicine Co., New Bern, N. C. Antimalarial tablet. 175,547; May 15.
Edison, Thomas A., Incorporated, West Orange, N. J. Devices for controlling the starting and stopping of phonographic apparatus. 139,518; May 15.
Eisenberg, M. L., doing business as Capital City Bottling Company, Montgomery, Ala. Beverage sold as a soft drink. 175,349; May 15.
Eisenberg, M. L., doing business as Capital City Bottling Company, Montgomery, Ala. Ginger ale. 175,350; May 15.
Eisenberg, M. L., doing business as Capital City Bottling Company, Montgomery, Ala. Maltless soft drinks. 175,351; May 15.
Eli Lilly & Company, The, Indianapolis, Ind. Medicinal preparation for the treatment of diabetes and to lower blood sugar, etc. 166,382; May 15.
Elm City Candy Co., Inc., The, New Haven, Conn. Candy. 147,719; May 15.
Esmond Mills, The, Esmond, Smithfield, R. I. Cotton blankets and cotton blanket piece goods. 173,703; May 15.
Exhaust Lock Company. (See Adams, Alonzo H.)
Fashion Model Co. (See Levitt, Max.)
Ferber, Robert R., assignor to Libby Chemical Company, West Allis, Wis. Medicated capsules for colds, la grippe, etc. 173,821; May 15.
Feuillie, Emile, Paris, France. Culinary salt. 173,824; May 15.
Finkl, A., & Sons Company, Chicago, Ill. Steel forgings. 177,908; May 15.
Flood & Conklin Company, Newark, N. J. Pyroxylin thinner. 178,174; May 15.
Flores, Rodolfo, doing business as Sana-Cutis (Chemical) Co., Sedalia, Mo. Vanishing face cream and cold cream. 168,408; May 15.
Forbes, Jas. H., Tea & Coffee Co., St. Louis, Mo. Empty containers for coffee and the like. 170,975; May 15.
Fouke Fur Company, St. Louis, Mo. Chemical deodorizing preparation. 173,325; May 15.
Fredericksen Company, Saginaw, Mich. Bearing metal, packing metal, brass castings, and bronze castings. 175,925; May 15.
French Importing Co., Chicago, Ill. Hair nets. 170,480; May 15.
Fromm, Frank H., doing business as F. H. Fromm & Co., Philadelphia, Pa. Canned fish. 172,329; May 15.
Fuld, William, Baltimore, Md. Figure toys. 176,961; May 15.
Gaffey, John T., doing business as Mah Juck Mfg. Co., San Pedro, Calif. Racks used in connection with the game Mah Juck. 174,770; May 15.

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Gamble, Helen C., New Brunswick, N. J. Hat bags. 177,664; May 15.
General Explosives Company, Chicago, Ill. Explosives. 148,383; May 15.
Gillett Chemical Works. (See Gillett, Clyde R.)
Gillett, Clyde R., doing business as Gillett Chemical Works, Sacramento, Calif. Lubricating oils. 169,293; May 15.
Ginsberg, I., & Bros., assignors to Isaac Ginsberg & Brothers, Inc., New York, N. Y. Children's, girls', and women's dresses. 170,636; May 15.
Glassmire, Sara R., doing business as Wm. Glassmire's, Philadelphia, Pa. Hair lotions and skin creams. 173,283; May 15.
Glassmire's, Wm. (See Glassmire, Sara R.)
Globe Import Company, San Francisco, Calif. Hair nets. 177,734; May 15.
Goeller's, M. G., Sons, Circleville, Ohio. Brooms. 175,861; May 15.
Goldenoia Talking Machine Co., Los Angeles, Calif. Phonographs. 174,782; May 15.
Grant Watkins Co., Inc., Boston, Mass. Cleansing and finishing cream, toilet waters, perfumes, sachet powder, etc. 173,483; May 15.
Green & Green Company, The, Dayton and Cincinnati, Ohio. Crackers and cakes and cracker meal. 158,772; May 15.
Greenfield's, E., Sons, New York, and Brooklyn, N. Y. Chocolates and candies. 170,385; May 15.
Grossmith, J., & Son, Limited, London, England. Toilet soap. 170,977; May 15.
Gulf States Steel Company, Birmingham, Ala. Barbed wire. 177,777–9; May 15.
Gurley Candy Company, Minneapolis, Minn. Candy. 163,267; May 15.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk. 177,844–5; May 15.
Hammell-Neuman Co., Philadelphia, Pa. Hats for men, women, and children. 164,435; May 15.
Harem Perfume Co. (See Sskele, Geo. A.)
Harpic Manufacturing Co. (See Pickup, Harry.)
Harris Soap Company, Buffalo, N. Y. Soap in liquid, flake, powdered, and cake form. 166,945; May 15.
Hawkins, Rembrandt L., Cincinnati, Ohio. Elastic bandages made without rubber. 157,315; May 15.
Healy, Daniel J., Detroit, Mich. Men's, women's, and children's hose. 170,648; May 15.
Healy, Daniel J., doing business as D. J. Healy Shops, Detroit, Mich. Wool yarns. 178,038; May 15.
Heller, B., & Company, Chicago, Ill. Chemical preparation for use in deodorizing ice boxes, etc. 172,043; May 15.
Heller B., & Company, Chicago, Ill. Chemical preparations used in the curing of meat. 172,992; May 15.
Heller, B., & Company, Chicago, Ill. Preparation for repelling flies from cattle, horses, dogs, etc. 173,045; May 15.
Heller, B., & Company, Chicago, Ill. Coloring for food and confectionery. 173,046; May 15.
Highland Cordage Company, Highland and Hickory, N. C. Cords, twines, ropes, and lines. 177,668; May 15.
Hirsch, Walter J., Company, Chicago, Ill. Candy. 162,547; May 15.
Horrocks-Ibbotson Co., Utica, N. Y. Fishing flies and artificial bait. 173,601; May 15.
Houbigant, Inc., New York, N. Y. Toilet creams. 175,493; May 15.
House of Kuppenheimer, The. (See Kuppenheimer, B., & Co.)
Hungerford, U. T., Brass & Copper Co., New York, N. Y. Babbitt metal. 178,390; May 15.
Hunter Mfg. & Commission Co., New York, N. Y. Cotton piece goods. 177,782; May 15.
Hygienic Fibre Company, Versailles, Conn., and New York, N. Y. Absorbent cotton and gauze, absorbent waste, bandage rolls, etc. 177,784; May 15.
Idolite Hosiery Mills, Inc., New York, N. Y. Hosiery. 171,218; May 15.
International Bedding Co. Inc., Baltimore, Md. Box springs. 164,049; May 15.
Jackson, John W., Palmetto, Fla. Waterproofing compound for use on shingle roofs and wood shingles. 173,424; May 15.
Jaenecke-Ault Company, Newark, N. J. Printing inks 176,740–1; May 15.
Jameway Co. (See Wayborn, James A.)
John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, or applying various liquids. 175,585; May 15.
Johnston, Robert A., Company, Milwaukee, Wis. Candy. 175,659; May 15.
Judee Laboratories. (See Wolcott, Herbert.)
Kanter, David I., Chicago, Ill. Corn remedy. 173,221; May 15.
Kantes, George, Atlanta, Ga. Candy. 169,764; May 15.
Karasik, Holleb & Co., Chicago, Ill. Canned vegetables, fruits, and fish, spices, etc. 172,881; May 15.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 177,384; May 15.
Keep Komb Co., The, Atlanta, Ga. Preparation for dressing the hair. 175,560; May 15.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants comprising oils and greases. 178,508–12; May 15.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants comprising oils and greases. 178,514–21; May 15.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants comprising oils and greases. 178,726–37; May 15.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants comprising oils and greases. 178,739–41; May 15.
Kings County Packing Co., Armona, Calif. Canned fruits. 168,421; May 15.
Kings County Packing Co., Armona, Calif. Canned fruits and vegetables. 171,327; May 15.
Kirby, Ernest V., doing business as Mountain Dew Co., Urbana, Ill. Beverages sold as soft drinks and sirups therefor. 175,249; May 15.
Koehn, Edouard, Geneva, Switzerland. Index thermometers. 164,057; May 15.
Konroe Merchants. (See Robert, Samuel.)
Kuppenheimer, B., & Co., doing business as The House of Kuppenheimer, Chicago, Ill. Men's outer clothing—viz, suits, and particularly coats. 170,587; May 15.
Laboratory Specialty Company, The, Cincinnati, Ohio. Toilet preparations. 141,229; May 15.
Lamont-Corliss and Company, New York, N. Y. Chocolate. 166,307; May 15.
Lancaster Bone Fertilizer Co. Inc., Lancaster, Pa. Fertilizers and lime for fertilizers. 178,260; May 15.
Laskin Brothers, Philadelphia, Pa. Camisoles, bloomers, chemises, etc. 171,223; May 15.
Lebannon Oil Co., Chicago, Ill. Salad oil. 160,416; May 15.
Lefebvre, George E., Cleveland, Ohio. Saxophone and clarinet reeds. 176,195; May 15.
Letts, Arthur, Los Angeles, Calif. Boys' suits, overcoats, nightshirts, pyjamas, shirts, etc. 111,114; May 15.
Levitt, Max, doing business as Fashion Model Co., Brooklyn, N. Y. Clothing models and patterns. 171,224; May 15.
Libby Chemical Company. (See Ferber, Robert R., assignor.)
Libby Chemical Company. (See Mueller, Theodore J., assignor.)
Liberman, M., Mfg. Co. (See Liberman, Meyer.)
Liberman, Meyer, doing business as M. Liberman Mfg. Co., Vallejo, Calif. Pants vests, coats, work shirts, hiking breeches for men and women. 170,940; May 15.
Liquid Wrench Company. (See Carroll, John A.)
Little Giant Company, Mankato, Minn. Internal-combustion motors for machine forging hammers. 170,393; May 15.
Lysle, J. C., Milling Company, The, Leavenworth, Kans. Wheat flour. 173,099; May 15.
Macy, R. H., & Co., Inc., New York, N. Y. Ophthalmic lenses. 175,363; May 15.
Madson, C. C., Lanesboro, Minn. Ice cream. 166,396; May 15.
Maffitt, Ellen W., doing business as University Pickle Company, St. Louis, Mo. Pickles. 171,371; May 15.
Mah Juck Mfg. Co. (See Gaffey, John T.)
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 178,110; May 15.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 178,524; May 15.
Marshall, Clifford C., Vincennes, Ind. Medicinal ointment for the treatment of scalp and hair. 175,877; May 15.
Medicraft Company, The, Cleveland, Ohio. Facial creams. 173,433; May 15.
Mello Company, The, Laporte, Ind. Washing compound. 173,607; May 15.
Mentholatum Company, The, Wichita, Kans. and Buffalo, N. Y. Preparation for repelling mosquitoes. 172,386; May 15.
Metro Pictures Corporation, New York, N. Y. Motion-picture films. 175,093; May 15.
Michigan Coin Lock Company, Indianapolis, Ind. Coin-controlled locks. 178,350; May 15.
Midland Flour Milling Co., The, Kansas City, Mo. Bran. 169,368; May 15.
Milnor, Oscar J., Rutherford, N. J. Ladies' vanity bags. 138,292; May 15.
Mira Chemical Co. (See Miranda, Rafael.)
Miranda, Rafael, doing business as Mira Chemical Co., New Bedford, Mass. Preparations for cleansing the scalp and stimulating the growth of hair. 174,906; May 15.
Mitchell, T. J., & Co., Inc., New York, N. Y. Silk piece goods. 177,400; May 15.
Mitsui Bussan Kaisha, Ltd., Tokyo, Japan. Matches. 156,095; May 15.
Moraff, Twining & Co., New York, N. Y. Cotton piece goods and silk and cotton fabrics. 177,862; May 15.
Morisse Lace & Embroidery Co., St. Louis, Mo. Laces and cotton and silk goods in the piece and in the bolt. 177,986; May 15.
Morse, A. G., Co. Inc., Chicago, Ill. Candy. 175,674; May 15.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Morton, Ted, & Co. Inc., New York, N. Y. Stuffed figure toys and ornamented surfaces to be formed into stuffed figure toys. 176,639; May 15.
Mountain Dew Co. (See Kirby, Ernest V.)
Mueller, Theodore J., assignor to Libby Chemical Company, West Allis, Wis. Medicated tablets for headaches, neuralgia, and minor pains. 173,850; May 15.
Mutual Orange Distributors, Redlands, Calif. Fresh citrous and deciduous fruits. 168,060; May 15.
Neal Manufacturing Co., The, Cleveland, Ohio. Pastry flour. 174,022; May 15.
Noble and Noble, New York, N. Y. Table game played with pieces. 177,102; May 15.
Noe-Equi Hosiery Mills, Inc., Reading, Pa. Hosiery. 170,690; May 15.
Northwestern Blaugas Company, St. Paul, Minn. Naphthalene solvent for gas mains and services. 156,593; May 15.
Ohio Confection Company, The, Cleveland, Ohio. Candy. 175,883; May 15.
Ohio Spring Bed Company. (See Cleveland Wire Spring Company.)
Oregon Brass Works, Portland, Oreg. Bearing bronze. 178,274–5; May 15.
Overland Pharmacy Co., Boise, Idaho. Natural clay prepared for use in cleansing the skin and pores. 168,121; May 15.
Palm Knitting Co., Inc., New York, N. Y. Knitted garments—namely, sweaters. 153,771–3; May 15.
Parke, Davis & Company, Detroit, Mich. Nebulizers and syringes. 170,782; May 15.
Parnibeck Chocolate Co., Inc., New York, N. Y. Chocolate candies. 175,515; May 15.
Peart, Harold A., doing business as Sprague & Carleton, Keene, N. H. Porch chairs, porch rockers, and settees. 158,645–6; May 15.
Peppers, Thomas H., Los Angeles, Calif. Cantaloupes, fresh citrous fruits, and fresh grapes. 162,948; May 15.
Pepple, D., and Co., Bainbridge, Ohio. Face lotion. 174,669; May 15.
Peter Rabbit Stores, Chicago, Ill. Pepper. 167,926; May 15.
Pfau's American Instrument Co., New York, N. Y. Medical and surgical appliances. 175,024; May 15.
Philipsborn's Inc., Chicago, Ill. Fur coats, scarfs, muffs, chokers, and dolmans. 171,036; May 15.
Philsbern Products Co. (See Bern, Philip S.)
Pickup, Harry, doing business as Harpic Manufacturing Co., London, England. Lavatory cleanser. 174,259; May 15.
Pilger, Herbert, Plainview, Nebr. Fly-chasing attachments to be attached to screen doors. 172,012; May 15.
Pinkus, Max, doing business as John Price & Co., Philadelphia, Pa. Canned salmon. 175,735; May 15.
Pom Chemical Co. Inc., The, Lebanon, Pa. Renovating, cleaning, and metal-polishing preparations. 168,124; May 15.
Porsellanfabrik Ph. Rosenthal & Co. A. G., Berlin, Germany. China. 171,105; May 15.
Postum Cereal Company Incorporated, New York, N. Y., and Battle Creek, Mich. Cereal breakfast foods 174,976; May 15.
Powell, Leopold, & Co., New York, N. Y. Cigars, cheroots, and little cigars. 149,480; May 15.
Price, John, & Co. (See Pinkus, Max.)
Proud's Portolive Co., Seattle, Wash., and Los Angeles, Calif. Tonic. 172,615; May 15.
Pyramid Process Co., Inc., East Rochester, N. Y. Dry paste. 177,200; May 15.
Quaker Oats Company, The, Chicago, Ill. Poultry feed. 174,106; May 15.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 174,107; May 15.
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. 177,611; May 15.
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. 177,860–6; May 15.
R. & J. Waist Company, The, New London, Conn. Children's waists and skirts, particularly underwaists. 144,429; May 15.
Raymond, Philip, Boston, Mass. Medicine used in the treatment of asthma, bronchitis, etc. 173,532; May 15.
Reed, Charles A. L., doing business as Clifton Laboratories, Cincinnati, Ohio. Dentifrice and propholactic paste. 174,860; May 15.
Republic Varnish Company, Newark, N. J. Ready-mixed paint, varnish, and paint enamel. 177,107; May 15.
Requa Bros., Cold Spring Harbor, N. Y. Coffee and tea. 170,834; May 15.
Rice, A. L., Inc., Adams, N. Y. Dry paint composition. 165,507; May 15.
Rich Brothers Cereal Company, Cedar Rapids, Iowa. Rolled oats. 174,031; May 15.
Richardson, O. W., & Co., Chicago, Ill. Textile rugs and carpets. 175,944; May 15.
Richardson, O. W., & Co., Chicago, Ill. Linoleum. 175,945; May 15.
Robert, Samuel, doing business as Konroe Merchants, New York, N. Y. Dolls and toy favors. 173,247; May 15.
Rugg, E. T., & Co., Newark, Ohio. Cordage. 158,835; May 15.
S. & B. Summer Clothing Co., New York, N. Y. Men's and boys' suits, overcoats, vests, trousers. 171,189; May 15.
Sakele, Geo. A., doing business as Harem Perfume Co., New York, N. Y. Perfumes. 175,373; May 15.
Sana-Cutis (Chemical) Co. (See Flores, Rodolfo.)
Sanas Company, The. (See Schaupner, Philip.)
Schaupner, Philip, doing business as The Sanas Company, Inc., Detroit, Mich. Laxative powders. 175,589; May 15.
Schlater's, Incorporated, Philadelphia, Pa. Bread, cakes, and pies. 158,902; May 15.
Schoepfer, Maurice, Paris, France. Perfumes, extracts, toilet water, rice powders, etc. 175,524; May 15.
Schoolhouse, Lewis, doing business as Chas. Schoolhouse & Son, New York, N. Y. Silk, cotton, and silk and cotton mixed piece goods. 177,876; May 15.
Schrafft's. (See Shattuck, Frank G., Company.)
Seward Trunk and Bag Company, Petersburg, Va. Wardrobe trunks. 178,004; May 15.
Seymour Manufacturing Company, The, Seymour, Conn. Metals—namely, brass, gilding, copper, etc. 175,952; May 15.
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys of copper, zinc, and nickel, wire in coils, etc. 175,954; May 15.
Shaffner, S. E., Co., Portland, Oreg. Food-flavoring extracts, crushed and canned fruits. 168,807; May 15.
Shattuck, Frank G., Company, doing business as Schrafft's, New York, N. Y. Candy. 172,560; May 15.
Shaw, Marvin and Co., New York, N. Y. Dresses. 170,995; May 15.
Siegbert, Louis & Bro., New York, N. Y. Cotton piece goods. 172,493; May 15.
Silver, M. & H., Incorporated, Norfolk, Va. Fountain pens and pencils. 174,928; May 15.
Skinner Machinery Company, Dunedin, Fla. Publication issued monthly. 174,493; May 15.
Smiley Company, The, Des Moines, Iowa. Medicine used in the treatment of diphtheria. 174,342; May 15.
Smith & Egge Manf'g. Co., The, Bridgeport, Conn. Sheet-metal chains. 173,446; May 15.
Smith Brothers, Inc., Poughkeepsie, N. Y. Cough drops. 173,985; May 15.
Snapo Food Products Company. (See Wood, Clara I.)
Solomia (1922) Limited, London, England. Insecticide. 174,343; May 15.
Sprague & Carleton. (See Peart, Harold A.)
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petrolatum. 175,414; May 15.
Standard Oil Company of New York, New York, N. Y. Petroleum products—namely, gasoline and naphtha. 169,934; May 15.
Star Textile Mills, Inc., Philadelphia, Pa. Wool, worsted, silk, and linen piece goods and wearing apparel. 169,935; May 15.
Straus, Albert I., Lima, Ohio. Ladies', misses' and children's hosiery, knit silk and cotton underwear, corsets, brassières, etc. 169,879; May 15.
Strype, Fred C., New York, N. Y. Apple wrappers. 176,924; May 15.
Susquehanna Silk Mills, New York, N. Y. Silk and cotton mixed goods in the piece. 178,304; May 15.
Swift, G. A., Selma, Ala. Digestant compound. 175,531; May 15.
Taiyo Trading Co., Inc., New York, N. Y. Crab meat. 171,236; May 15.
Tanner, William E., Brunswick, Me. Beverages sold as soft drinks and sirups for making same. 174,495; May 15.
Tate & Lyle Limited, London, England. Sugar. 161,701; May 15.
Tharinger Macaroni Company, Milwaukee, Wis. Alimentary paste products. 171,186; May 15.
Tissue Company, The, Saugerties, N. Y. Crêpe paper. 177,150; May 15.
Titanium Pigment Company, Inc., Niagara Falls, N. Y. Soap, glass and metal polishes, and abrader preparations. 173,110; May 15.
Topsitol Laboratories. (See Bariscillo, John J.)
U. S. Hame Company, Buffalo, N. Y. Hames, hame trimmings, and saddlery hardware. 178,312–13; May 15.
Ucoline Products Co. (See Davis, Paul P.)
Union News Company, The, New York, N. Y. Candies and assorted chocolates. 172,498; May 15.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Aprons for icemen. 171,002; May 15.
University Pickle Company. (See Mamitt, Ellen W.)
Utasal Company, The. (See Zucker, Nathan S.)
Virden Packing Company, San Francisco, Calif. Canned and bottled fruits, jams, jellies, and olives. 175,581; May 15.
Voss & Stern, New York, N. Y. Cotton piece goods. 177,934; May 15.
Voss & Stern, New York, N. Y. Cotton piece goods. 177,938–9; May 15.

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Walter, John H., Brooklyn, N. Y. Masticatories—namely, chewing gum and candies. 164,738; May 15.
Waumbek Manufacturing Company, New York, N. Y. Cotton crêpe fabrics in the piece. 178,317; May 15.
Wayborn, James A., doing business as Jameway Co., Brooklyn, N. Y. Prunes. 154,631; May 15.
Western Bottle Manufacturing Company, Chicago, Ill. Powder puffs. 176,140; May 15.
Western Bottle Manufacturing Company, Chicago, Ill. Powder puffs, tooth, hair, hand, and clothes brushes. 176,145; May 15.
Weymann, H. A., & Son, Inc., Philadelphia, Pa. Stringed musical instruments, parts, and strings therefor. 177,534–5; May 15.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Orthodontic appliances. 162,226; May 15.
Whittall, M. J., Associates, Worcester, Mass. Wilton and plush carpets. 167,064; May 15.
Wiegand, William D., doing business as Bureau of Formulas, Baltimore, Md. Insecticide, deodorant, and disinfectant. 171,395; May 15.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 177,718; May 15.
Wing Lee Wai Company, San Francisco, Calif. Medicinal herb preparation used as a general tonic. 172,364; May 15.
Wing Lee Wai Company, San Francisco, Calif. Medicinal herb preparation used as a general tonic. 172,569–70; May 15.
Wolcott, Herbert, doing business as Judee Laboratories, Red Bank, N. J. Medicinal preparation to be used as a prophylactic, antiseptic, and germicide. 175,588; May 15.
Wood, Clara I., doing business as Snapo Food Products Company, New York, N. Y. Highly-seasoned sauce for use on meat and fish. 139,240; May 15.
Wood, W. Lloyd, Limited, Toronto, Ontario, Canada. Antiseptic solution, mouth wash, tooth paste, etc. 172,308; May 15.
Yorkshire Dyeware & Chemical Company, Limited, The, Leeds, England. Dry powdered extract of logwood. 173,064; May 15.
Zucker, Nathan S., doing business as The Utasal Company, New York, N. Y., and Salt Lake City, Utah. Medicated bath preparation. 174,984; May 15.
Zuercher, C. E., & Co., Chicago, Ill. Cheese. 174,052; May 15.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Advertising pamphlets, circulars, bulletins, and supplements. H. Paull. 168,143; May 15; Serial No. 170,078; published Jan. 30, 1923.
Bags, soap boxes, wash-rag cases, cretonne bags, etc., Beaded. Calhoun, Robbins & Co. 168,039; May 15; Serial No. 172,205; published Feb. 20, 1923.
Bandeaux and brassières. Vanity Brassiere Company. 168,077; May 15; Serial No. 156,557; published July 11, 1922.
Bandeaux, Boudoir. K. Fisk. 168,292; May 15.
Bath robes, bathing suits, coats, and suits, etc. M. E. Blatt Co. 168,185; May 15; Serial No. 169,117; published Feb. 6, 1923.
Belts, Men's. T. J. O'Connor & Sons, Incorporated. 168,178; May 15; Serial No. 169,557; published Jan. 30, 1923.
Beverages and ginger ale sold as soft drinks and extracts, sirups, etc., for making same. Abeco Beverage Company. 168,258; May 15; Serial No. 171,605; published Feb. 27, 1923.
Beverages, Corn sirup used in the manufacture of. E. M. Blumenthal. 168,261; May 15; Serial No. 170,677; published Feb. 27, 1923.
Beverages sold as soft drinks and extracts, etc., for making same. New England Brewing Company. 168,287; May 15; Serial No. 171,651; published Feb. 27, 1923.
Binders and books, book bindings, envelopes, letterheads, etc., Loose-leaf. Hawkeye Bindery Company. 168,222; May 15; Serial No. 172,273; published Feb. 13, 1923.
Bird-cage stands, screens, hooks, etc. Andrew B. Hendryx Co. 168,096; May 15; Serial No. 162,550; published Feb. 27, 1923.
Bolt anchors and expansion shields. Star Expansion Bolt Company. 168,116; May 15; Serial No. 152,729; published Feb. 27, 1923.
Book, Cook. Saalfield Publishing Company. 168,203; May 15; Serial No. 162,858; published Jan. 30, 1923.
Books, Pass. William Mann Company. 168,155; May 15; Serial No. 173,266; published Feb. 13, 1923.
Boots and shoes. International Shoe Company. 168,159; May 15; Serial No. 165,380; published Feb. 20, 1923.
Boots and shoes, Leather. B. E. Cole Co. 168,265; May 15; Serial No. 170,055; published Feb. 27, 1923.
Boxes, Folding. Paraffine Companies, Inc. 168,045; May 15; Serial No. 173,205; published Feb. 20, 1923.
Brake linings. Allbestos Corporation. 168,270; May 15; Serial No. 168,091; published Jan. 30, 1923.
Brassières and corsets. Modishform Brassiere, Inc. 168,281; May 15.
Brick and tile. Acme Brick Company. 168,050; May 15; Serial No. 169,666; published Feb. 20, 1923.
Brooms. Greenup Broom Co. 168,250; May 15; Serial No. 173,418; published Feb. 27, 1923.
Brushes, Shoe. Parks & Parks, Inc. 168,249; May 15; Serial No. 173,528; published Feb. 27, 1923.
Brushes, Shoe-shining. Wallin Mfg. Co. 168,254; May 15; Serial No. 172,306; published Feb. 27, 1923.
Brushes, whisk brooms, dusters, and powder puffs. Calhoun, Robbins & Co. 168,038; May 15; Serial No. 172,203; published Feb. 20, 1923.
Cages, Bird. Andrew B. Hendryx Co. 168,147; May 15; Serial No. 173,316; published Feb. 27, 1923.
Candy. W. R. Montague Company. 168,285; May 15.
Canned fruits and vegetables. Starr Fruit Products Co. 168,201; May 15; Serial No. 164,974; published Feb. 6, 1923.
Canned vegetables. Inderrieden Canning Co. 168,104; May 15; Serial No. 164,917; published Feb. 13, 1923.
Caps, Men's, boys', and children's. Jackoway & Katz Cap Co. 168,259; May 15; Serial No. 171,174; published Feb. 13, 1923.
Card game apparatus, Replay. Duplicate Whist Company. 168,206; May 15.
Cards, Playing. New York Consolidated Card Co. 168,260; May 15; Serial No. 171,027; published Feb. 27, 1923.
Carts, Three-wheeled. Rochester Toy Company. 168,085; May 15; Serial No. 121,785; published Feb. 20, 1923.
Catheters, esophagus tubes, rectal tubes, and cup funnels. William Warne and Company Limited. 168,228; May 15; Serial No. 171,603; published Feb. 27, 1923.
Cement, Roofing. Pioneer Manufacturing Company. 168,213; May 15; Serial No. 141,870; published Feb. 6, 1923.
Cherries, Fresh. T. D. Bryan. 168,100; May 15; Serial No. 163,734; published Feb. 20, 1923.
Cider, grape juice, grenadine sirup, etc., Sweet. Park & Tilford. 168,251; May 15; Serial No. 173,003; published Feb. 27, 1923.
Cigars. Geo. Fehl Blue Ribbon Cigar Co. 168,086; May 15; Serial No. 114,670; published May 9, 1922.
Cigars. T. G. Greanias. 168,076; May 15; Serial No. 158,307; published Feb. 27, 1923.
Cigars. Havana Cigar Co. 168,063; May 15; Serial No. 171,319; published Feb. 20, 1923.
Cigarettes. Ardath Tobacco Company. 168,255–6; May 15; Serial Nos. 171,978–9; published Feb. 27, 1923.
Cigarettes. Khedival Company. 168,306; May 15.
Cigarettes. Tobacco Products Corporation. 168,247; May 15; Serial No. 174,371; published Feb. 27, 1923.
Cleaning compound and soaps, General. A. S. Morgan. 168,171; May 15; Serial No. 166,843; published Feb. 13, 1923.
Cloaks and wraps, Ladies'. Amsterdam & Sachs, Inc. 168,284; May 15.
Cloaks, wraps, and suits for ladies. Mabley & Carew Company. 168,183; May 15; Serial No. 169,174; published Jan. 30, 1923.
Clothing, Men's ready-made. Thexton & Wright Ltd. 168,087; May 15; Serial No. 160,310; published Feb. 13, 1923.
Cloths, Cleaning. L. P. Galbraith. 168,048; May 15; Serial No. 169,398; published Feb. 6, 1923.
Coats. I. L. Freedman. 168,212; May 15; Serial No. 150,009; published Jan. 30, 1923.
Coats for ladies and misses. John & James Dobson, Inc. 168,282; May 15.
Coats, Topper. W. Kleinberg. 168,286; May 15.
Coffee. J. Johnson. 168,173; May 15; Serial No. 168,315; published Feb. 20, 1923.
Composition used for spraying and destroying boll weevils, etc. Boll-We-Go Manufacturing Company. 168,055; May 15; Serial No. 170,053; published Feb. 6, 1923.
Condiment holder. H. W. Stoner. 168,140; May 15; Serial No. 170,315; published Feb. 20, 1923.
Corsets. J. L. Alberts. 168,160; May 15; Serial No. 165,516; published Feb. 20, 1923.
Corsets. Berger Brothers Company. 168,308; May 15.
Corsets. Naturaline Corset Company. 168,202; May 15; Serial No. 164,601; published Jan. 30, 1923.
Corsets, corset waists, brassières, bandeaux, etc. Royal Worcester Corset Company. 168,146; May 15; Serial No. 169,650; published Feb. 20, 1923.
Cotton piece goods. Edward E. Berliner & Co. 168,230; May 15; Serial No. 171,445; published Feb. 13, 1923.
Cotton piece goods. Heller & Long. 168,151; May 15; Serial No. 172,673; published Feb. 13, 1923.

Cotton piece goods. S. H. Kahn & Co. 168,041–2; May 15; Serial Nos. 173,086–7; published Feb. 13, 1923.
Cotton piece goods. Charles L. Poor Co. 168,301; May 15.
Creams, face powder, toilet waters, etc., Cleansing and vanishing. Richard Hudnut 168,234; May 15; Serial No. 171,171; published Feb. 13, 1923.
Diagnostic medical instruments. De Zeng Standard Co. 168,300; May 15.
Display device. American Mint Company. 168,060; May 15; Serial No. 170,858; published Feb 20, 1923.
Dresses and aprons, Females'. A. J. Dougherty. 168,109; May 15; Serial No. 135,638; published July 26, 1921.
Drills, Oil-well. John A. Zublin, doing business as Zublin Tool Company, Los Angeles, Calif. 168,220; May 15; Serial No. 172,312 published Feb. 27, 1923.
Drink, Nonalcoholic, malt-less grape. Good Grape Company. 168,305; May 15.
Dye, Hat. G. H. Capen. 168,065; May 15; Serial No. 171,350; published Feb 20, 1923.
Enamels, polishes, and cleaning compositions, also cleaning compositions for silver and gold, Shoe. Pee-Chee Cleaner Manufacturing Company. 168,054; May 15; Serial No. 170,033; published Feb. 6, 1923.
Engines, Attachment for internal-combustion. Wedler-Shuford Company. 168,271; May 15; Serial No. 168,187; published Feb 13, 1923.
Engines, Carbon removers for internal-combustion. Q B Manufacturing Co. 168,101; May 15; Serial No. 164,512; published Jan 2, 1923.
Engines, Compound for removing carbon from gas. C. H. Coburn. 168,052; May 15; Serial No. 169,846; published Feb. 6, 1923.
Engines, Device used in stopping internal-combustion. Pierce Governor Company. 168,181; May 15; Serial No. 169,321; published Feb. 13, 1923.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. 168,044; May 15; Serial No. 173,164; published Feb. 13, 1923.
Fabrics of silk, artificial silk, cotton, and combinations of same. H. K. H. Silk Co. 168,216; May 15; Serial No. 172,474; published Feb 13, 1923.
Fishing lines. Newton Line Company Incorporated. 168,248; May 15; Serial No. 173,060; published Feb. 27, 1923.
Fish, macaroni, tomatoes, etc., Tunny. Savoy Importing Co. 168,099; May 15; Serial No 163,712; published Feb. 27, 1923.
Flatware, Plated. Joseph Fahys & Company. 168,138; May 15; Serial No. 170,373; published Feb. 20, 1923.
Flavorings, sirups, fruit acids, and quintessences, American Syrup Co. 168,040; May 15; Serial No. 172,856; published Feb. 20, 1923.
Flour, Wheat. S. W. Hershey. 168,187; May 15; Serial No. 168,967; published Feb. 6, 1923.
Footwear. Crescent Shoe Co. 168,263; May 15.
Fur garments. F. L. Gould. 168,070; May 15; Serial No. 162,401; published Feb. 20, 1923.
Fur garments and women's coats with fur trimmings. Safchik & Company. 168,112; May 15; Serial No. 147,895; published May 7, 1922.
Games, Card. Fireside Game Company. 168,297; May 15, 1923.
Gauges, Gasoline. Stenco Engineering Company. 168,180; May 15; Serial No. 169,337; published Jan. 2, 1923.
Gaskets, washers, packing, and friction surfaces. Armstrong Cork Company 168,204; May 15; Serial No. 162,526; published Jan. 30, 1923.
Gasoline and volatile compositions derived from petroleum. A. G. Burrow 168,148; May 15; Serial No. 172,510; published Feb. 27, 1923.
Germicide, Antiseptic. Sodiphene Company. 168,312; May 15.
Gloves and mittens. W. C. Smith Glove Co. 168,309; May 15.
Gloves, Fabric. Louis Meyers & Son. 168,279; May 15.
Gloves, Fabric. V. Perrin & Cie. 168,263; May 15; Serial No. 170,539; published Feb. 20, 1923.
Gloves, hosiery, and underwear, Leather and fabric. Montrose Glove Inc. 168,274; May 15; Serial No. 168,584; published Feb. 6, 1923.
Gold leaf, imitation-gold leaf, and silver leaf, Sized. F. R. Coughlin. 168,120; May 15; Serial No. 158,075; published Feb. 27, 1923.
Golf clubs. Crawford, McGregor & Canby Company. 168,066; May 15; Serial No. 171,622; published Feb. 20, 1923.
Hair cloth in the piece, Camel's. Wilkin & Adler. 168,152; May 15; Serial No. 172,710; published Feb. 13, 1923.
Hair dressing. R. W. Whitaker. 168,051; May 15; Serial No. 169,837; published Feb. 6, 1923.
Hairpins, common pins, hand sewing needles, crochet hooks, etc. Marshall Field & Company. 168,205; May 15; Serial No. 161,546; published Feb. 6, 1923.
Hair, Preparation for restoring. S. R. Glassmire. 168,310; May 15.
Hair tonic. L. T. Alexander. 168,195; May 15; Serial No. 168,745; published Feb. 13, 1923.
Hair tonics. J. Ehmann. 168,131; May 15; Serial No. 170,810; published Feb. 13, 1923.
Hair tonic, toilet waters, colognes, and cold creams. G. Pagonis. 168,276; May 15; Serial No. 168,725; published Feb. 13, 1923.
Hatchets. L. A. Sayre Co. 168,142; May 15; Serial No. 170,158; published Feb. 13, 1923.
Hats and caps. M. Alperowitz & Son. 168,232; May 15; Serial No. 171,246; published Feb. 20, 1923.
Hats and caps. Charles S. Merton & Co. 168,102; May 15; Serial No. 164,716; published Feb. 6, 1923.
Hats for men and boys. The Fair. 168,291; May 15.
Hats for men and boys. S. Miller. 168,280; May 15.
Hats, Ladies'. Radio Hat Co., Inc. 168,113; May 15; Serial No. 150,203; published Jan. 16, 1923.
Hats, Women's and children's. Eastern Hat & Cap Co. 168,161; May 15; Serial No. 165,670; published Jan. 30, 1923.
Hops. A. J. Ray & Son, Inc. 168,200; May 15; Serial No. 165,414; published Feb. 6, 1923.
Hosiery. Alperson & Son. 168,068; May 15; Serial No. 164,018; published Jan. 9, 1923.
Hosiery. American Wholesale Corporation. 168,166; May 15; Serial No. 166,213; published Nov. 14, 1922.
Hosiery. J. C. Bossong. 168,246; May 15; Serial No. 167,765; published Jan. 30, 1923.
Hosiery. Jennings Manufacturing Company. 168,073; May 15; Serial No. 159,153; published Oct. 31, 1922.
Hosiery. Benjamin Moseley Co. 168,273; May 15; Serial No. 168,543; published Jan. 30, 1923.
Hosiery. Powell Knitting Company. 168,168; May 15; Serial No. 166,245; published Jan. 30, 1923.
Hosiery. Powell Knitting Company. 168,236; May 15; Serial No. 166,254; published Jan. 30, 1923.
Hosiery. W. C. Taylor. 168,290; May 15.
Hosiery. Wallach & Mayer Inc. 168,175; May 15; Serial No. 168,442; published Jan. 30, 1923.
Hosiery, Ladies'. Marshall Field & Company. 168,196; May 15; Serial No. 166,058; published Jan. 30, 1923.
Hosiery, scarfs, neckties, and mufflers. Nickels & Lauber, Inc. 168,186; May 15; Serial No. 169,071; published Jan. 30, 1923.
Hosiery, Sporting. D. Kirsch. 168,074; May 15; Serial No. 159,093; published Feb. 27, 1923.
Inks, Printing. American Printing Ink Company. 168,302; May 15.
Insecticides. D. Wood. 168,061; May 15; Serial No. 170,917; published Feb. 20, 1923.
Knitted outer wear. Yund, Kennedy & Yund. 168,275; May 15; Serial No. 168,657; published Feb. 13, 1923.
Knitted sweaters, caps, gloves, socks, etc. Olympia Knitting Mills, Inc. 168,209; May 15; Serial No. 153,616; published Jan. 30, 1923.
Lamp used in raying bodies of patients under surgical and medical treatment, Electrical therapeutic. Harry W. Nelson. 168,172; May 15; Serial No. 166,844; published Feb. 13, 1923.
Lancets, fleams, and surgical scissors. Mappin & Webb, Limited. 168,124; May 15; Serial No. 159,477; published Feb. 27, 1923.
Ledgers, Loose-leaf. National Blank Book Co. 168,253; May 15; Serial No. 172,648; published Feb. 27, 1923.
Lenses, Ophthalmic and spectacle. Optics Limited. 168,115; May 15; Serial No. 161,686; published Feb. 20, 1923.
Letter sheets and mailing or correspondence envelopes, etc. C. L. Benedict. 168,211; May 15; Serial No. 151,935; published Feb. 13, 1923.
Liniment for relief of aches, pains, cuts, etc. O. M. Norcross. 168,049; May 15; Serial No. 169,603; published Feb. 20, 1923.
Lotion, toilet water, talcum powder, perfume, rouge, etc., Hand. C. J. Wallace. 168,207; May 15; Serial No. 158,203; published Feb. 13, 1923.
Lye, Wm. Schield Mfg. Co. 168,245; May 15; Serial No. 167,270; published Feb. 13, 1923.
Magazine issued monthly. Fielding Publishing Company. 168,272; May 15; Serial No. 168,522; published Jan. 30, 1923.
Magazine, Monthly. National Association of Electrical Contractors and Dealers. 168,239; May 15; Serial No. 167,052; published Jan. 30, 1923.
Measuring tapes. Crogan Manufacturing Company. 168,278; May 15.
Medical preparation. Bi-Oxo-Dyn Co. 168,047; May 15; Serial No. 169,346; published Feb. 20, 1923.
Medicinal preparation for open wounds of animals, Liquid. F. Podowinnikoff. 168,210; May 15; Serial No. 152,479; published Jan. 2, 1923.
Medicines and toilet preparations. D. Sweet. 168,277; May 15.
Metals and alloys, Babbitt bearing and antifriction. Magnolia Metal Company. 168,189; May 15; Serial No. 168,930; published Jan. 9, 1923.
Milling tools, Metal-working cylindrical. Auto-Hone Co. 168,184; May 15; Serial No. 169,147; published Feb. 13, 1923.
Mills and fruit presses, Cider. Crown Manufacturing Company. 168,132; May 15; Serial No. 170,809; published Feb. 20, 1923.
Money receptacles or portable banks. Bankers Savings and Credit System Company. 168,141; May 15; Serial No. 170,268; published Feb. 27, 1923.
Musical instruments and supplies. Elkhart Band Instrument Company. 168,129; May 15; Serial No. 170,972; published Feb. 6, 1923.
Newspaper, Daily. Dow, Jones & Company. 168,177; May 15; Serial No. 169,627; published Jan. 2, 1923.
Oil, Olive. G. Lingua & Co. 168,158; May 15; Serial No. 165,237; published Feb. 13, 1923.

Oil, White mineral. Standard Oil Company, Incorporated in New Jersey. 168,137; May 15; Serial No. 170,410; published Feb. 13, 1923.
Oils and greases. L. E. Van Druff. 168,304; May 15.
Ointment for burns, boils, etc., Healing. E. L. Patch Company. 168,127; May 15; Serial No. 171,100; published Feb. 13, 1923.
Ointment for the treatment of piles. L. J. Judson. 168,062; May 15; Serial No. 171,024; published Feb. 20, 1923.
Overalls, jackets, and combination outer suits. D. Oberman Mfg. Co. 168,294; May 15.
Overcoats, suits, caps, shirts, etc., Men's. Wilson & Glenny, Ltd. 168,125; May 15; Serial No. 159,909; published Feb. 27, 1923.
Packing, Compressed-asbestos-fiber-sheet machinery. Union Asbestos & Rubber Company. 168,199; May 15; Serial No. 165,468; published Jan. 30, 1923.
Paint, paint enamels, japans, stains, etc. Sherwin-Williams Company. 168,111; May 15; Serial No. 145,131; published Feb. 20, 1923.
Paint, varnish and paint enamel. Republic Varnish Company. 168,298; May 15.
Paints and japan driers. Toch Brothers. 168,090; May 15; Serial No. 161,593; published Oct. 31, 1922.
Paper. L. Hyman & Sons. 168,244; May 15; Serial No. 167,127; published Feb. 13, 1923.
Paper bags. A. Herz. 168,046; May 15; Serial No. 173,567; published Feb. 20, 1923
Paper, Plain and safety. Forman-Bassett Company. 168,080; May 15; Serial No. 152,007; published Dec. 26, 1922.
Paper wrappers. American Bread Wrapper Company. 168,154; May 15; Serial No. 173,160; published Feb. 13, 1923.
Paper, Writing. Fox River Paper Company. 168,226; May 15; Serial No. 171,990; published Feb. 13, 1923.
Periodical, Weekly. F. P. Fildes, Inc. 168,268; May 15; Serial No. 167,807; published Jan. 30, 1923.
Petroleum tailings, road, residual, black, and fuel oils. Union Oil Company of California. 168,103; May 15; Serial No. 164,782; published Feb. 20, 1923.
Petticoat. E. M. McRae. 168,110; May 15; Serial No. 135,972; published Feb. 6, 1923.
Picture films, Motion-. J. T. Kelly. 168,135; May 15. Serial No. 170,652; published Feb. 20, 1923.
Pictures, motion-picture films, machines for taking and projecting pictures, and screens. C. E. Elliott. 168,093–5; May 15; Serial Nos. 162,389–91; published Feb. 27, 1923.
Piston or packing rings. Unico Motor Products Corporation. 168,237; May 15; Serial No. 166,333; published Jan. 30, 1923.
Piston rings. United States Hammered Piston Ring Co. 168,081; May 15; Serial No. 140,477; published Dec. 26, 1922.
Pistols, revolvers, shotguns, and rifles, Automatic. B. R. Lemes. 168,299; May 15.
Pliers. Peck, Stow & Wilcox Co. 168,150; May 15; Serial No. 172,613; published Feb. 27, 1923.
Plows, plowshares, mold boards, plowpoints, landsides, etc. Bucher & Gibbs Plow Company. 168,136; May 15; Serial No. 170,473; published Jan. 9, 1923.
Poisoning fluid compound, Ant-. Universal Laboratories, Inc. 168,231; May 15; Serial No. 171,342; published Feb. 13, 1923.
Poisonous mixture for the destruction of rats and rodents. C. G. Woods, jr. 168,139; May 15; Serial No. 170,846; published Feb. 6, 1923.
Polish and coating for the front ends and stacks of locomotives. Chas. R. Long, Jr., Co. 168,107; May 15; Serial No. 60,550; published Apr. 30, 1918.
Polish, Stove. D. Tobin. 168,059; May 15; Serial No. 170,316; published Feb. 6, 1923.
Polishes for automobile bodies, furniture, etc. Nu-Shyne Sope-Olish Co. 168,287; May 15.
Potatoes, onions, apples, and carrots, Fresh. A. Rosenblum. 168,227; May 15; Serial No. 171,656; published Feb. 20, 1923.
Powders, Rouge and face. Frederick F. Ingram Company. 168,117; May 15; Serial No. 153,884; published Feb. 13, 1923.
Preparation for prevention of moths. R. S. Marshall. 168,130; May 15; Serial No. 170,826; published Feb. 13, 1923.
Preparation for purifying the air in meat-cooling rooms, refrigerators, etc., Chemical. B. Heller & Company. 168,235; May 15; Serial No. 171,124; published Feb. 13, 1923.
Preparation for the treatment of rheumatism, kidney and bladder trouble, etc. H. H. Shields. 168,056; May 15; Serial No. 170,259; published Feb. 20, 1923.
Preparations for the treatment of tuberculosis. Societe Des Produits Chimiques de L'Isle Saint-Denis. 168,169; May 15; Serial No. 166,579; published Feb. 13, 1923.
Preparations for treatment of la grippe, influenza, coughs, colds, etc. Sydney Ross Co. 168,053; May 15; Serial No. 169,985; published Feb. 6, 1923.
Printers' and bookbinders' supplies. Hamilton Manufacturing Company. 168,238; May 15; Serial No. 167,043; published Feb. 13, 1923.
Pumps and agitators and thickeners, etc., for separating solids from liquids. Dorr Company. 168,153; May 15; Serial No. 173,128; published Feb. 27, 1923.
Pumps, Liquid measuring and dispensing. Marvel Equipment Company. 168,128; May 15; Serial No. 170,985; published Feb. 20, 1923.
Pyjamas, Children's and youths' one-piece. Kaynee Company. 168,108; May 15; Serial No. 126,219; published Feb. 13, 1923.
Pyjamas, nightshirts, night coats, beach coats, gymnasium coats, etc. Rice-Stix Dry Goods Company. 168,194; May 15; Serial No. 168,802; published Feb. 6, 1923.
Rakes, Bamboo. I. Tsuchiya. 168,156; May 15; Serial No. 173,308; published Feb. 27, 1923.
Razor-blade-stropping holders, Safety-. R. T. Parker. 168,269; May 15; Serial No. 167,924; published Feb. 13, 1923.
Razors and scissors. A. Wingen, jr. 168,126; May 15; Serial No. 160,169; published Feb. 27, 1923.
Razors, safety razors, mechanical strops, etc. Gebr. Korte Stahlwarenfabrik. 168,163–5; May 15; Serial Nos. 165,945–7; published Feb. 27, 1923.
Reamers and groove cleaners. Vodoe-Peterson Company. 168,217; May 15; Serial No. 172,454; published Feb. 27, 1923.
Receptacles for foods, drinks, etc., Double-walled. Isola Gesellschaft für Warme- und Kälte Isolierung. 68,088; May 15; Serial No. 160,808; published Feb. 27, 1923.
Refrigerators. Ristel Manufacturing Company. 168,229; May 15; Serial No. 171,553; published Feb. 13, 1923.
Remedy, Veterinary. H. C. Babbitt. 168,064; May 15; Serial No. 171,347; published Feb. 20, 1923.
Rubber and oiled coats and jackets. Goodyear Rubber Co. 168,121; May 15; Serial No. 158,612; published Jan. 30, 1923.
Rubber and oiled coats and jackets. Goodyear Rubber Co. 168,122; May 15; Serial No. 158,613; published Feb. 20, 1923.
Rubber boots and shoes. La Crosse Rubber Mills Co. 168,262; May 15; Serial No. 170,492; published Feb. 27, 1923.
Rubber heels. Eclipse Shoe Manufacturing Company. 168,266; May 15; Serial No. 169,706; published Feb. 27, 1923.
Rubber heels. Lynch Heel Company. 168,011; May 15; Serial No. 161,490; published Feb. 27, 1923.
Rubber reenforced with fabric, Hose made of. B. F. Goodrich Company. 168,192; May 15; Serial No. 168,884; published Jan. 30, 1923.
Rubber soles and heels. Essex Rubber Company. 168,307; May 15.
Salve for the amelioration of soreness in fatigued human pedal extremities. International Consolidated Chemical Corporation. 168,170; May 15; Serial No. 166,599; published Feb. 13, 1923.
Sandwich filling. M. B. Brown. 168,091; May 15; Serial No. 161,765; published Feb. 13, 1923.
Saxophones. Saxophone Shop. 168,133; May 15; Serial No. 170,790; published Feb. 20, 1923.
Scissors, nail clippers, files, and tweezers, Manicure. Mappin & Webb, Limited. 168,123; May 15; Serial No. 159,476; published Feb. 27, 1923.
Shaving-lather forming devices. R. H. Wager. 168,193; May 15; Serial No. 168,815; published Feb. 13, 1923.
Shirt for sports wear and athletic training, jackets, mackinaws, etc., Heavy outer. Wright's Underwear Company. 168,208; May 15; Serial No. 156,424; published Jan. 30, 1923.
Shirts and collars. Hall, Hartwell & Co. 168,075; May 15; Serial No 158,393; published Jan. 23, 1923.
Shirts and collars. Hall, Hartwell & Co. 168,083; May 15; Serial No. 136,707; published Jan. 9, 1923.
Shirts for sports wear and athletic training, jackets, outer shirts, sweaters, etc., Heavy outer. Wright's Underwear Company. 168,208; May 15; Serial No. 156,424; published Jan. 30, 1923.
Shirts, Men's and boys' work. Rosenbaum Brothers. 168,072; May 15; Serial No. 160,901; published Aug. 20, 1922.
Shoes. Jelly-Delaney Shoe Co. 168,078; May 15; Serial No. 156,330; published Feb. 27, 1923.
Shoes, Leather. Cammeyer. 168,264; May 15; Serial No. 170,272; published Feb. 27, 1923.
Shoes, Leather. Foundation Sales Corporation. 168,267; May 15; Serial No. 169,353; published Feb. 20, 1923.
Silk piece goods. H. R. Mallinson & Co. 168,043; May 15; Serial No. 173,138; published Feb. 13, 1923.
Soap. Remiller Co. 168,218; May 15; Serial No. 172,353; published Feb. 20, 1923.
Soap dishes, towel bars, hand rails, etc. J. P. Eustis Manufacturing Company. 168,089; May 15; Serial No. 161,531; published Feb. 27, 1923.
Spectacle and eyeglass rims. Standard Optical Co. 168,214; May 15; Serial No. 139,433; published Feb. 13, 1923.
Storm protecting covering. Ombrelo, Inc. 168,162; May 15; Serial No. 165,757; published Feb. 6, 1923.
Suits and coats, Men's and young men's. Lob, Hubbart & Silverman. 168,079; May 15; Serial No. 153,559; published May 23, 1922.
Suits and overcoats, Men's and boys'. M. Owens. 168,174; May 15; Serial No. 168,547; published Feb. 6, 1923.
Suits, Children's play. Buxton Garment Mfg. Co. 168,144; May 15; Serial No. 170,002; published Jan. 30, 1923.

Suits, Children's overall play. Maryland Company. 168,084; May 15; Serial No. 129,239; published June 1, 1920.
Suits, coats, dresses, skirts, and waists, Ladies'. M. E. Darrish. 168,188; May 15; Serial No. 168,959; published Jan. 30, 1923.
Suits of washable materials, Children's. M. E. Smith & Co. 168,067; May 15; Serial No. 164,835; published Nov. 28, 1922.
Suits, overcoats, etc., Men's. Chester Clothes, Inc. 168,215; May 15; Serial No. 138,002; published Feb. 6, 1923.
Suits, overcoats, and trousers, Men's. Finsterwald Clothing Co. 168,069; May 15; Serial No. 163,790; published Oct. 31, 1922.
Supporters, Garment. R. J. Watts. 168,206; May 15; Serial No. 160,841; published Feb. 6, 1923.
Sweaters. Peerless Knitting Co. 168,293; May 15.
Tablet for indigestion, ailments of the throat, etc., Medicated. Lambert Pharmacal Company. 168,134; May 15; Serial No. 170,770; published Feb. 13, 1923.
Telegraphs, Magnifying attachments for printing. J. H. Chidester. 168,191; May 15; Serial No. 168,918; published Feb. 20, 1923.
Thermometers, hypodermic syringes and needles, Clinical and medical. G. Faicheny Company. 168,167; May 15; Serial No. 166,226; published Feb. 13, 1923.
Time indicating, keeping, and recording instruments. Boston Clock Company. 168,289; May 15.
Time indicating, keeping, and recording instruments. Chelsea Clock Company. 168,288; May 15.
Tires and fabric belting, Endless woven cord fabrics for use in the manufacture of. Stockton Commission Co. 168,092; May 15; Serial No. 162,315; published Feb. 20, 1923.
Tires and tubes, Rubber. Fisk Rubber Company. 168,118; May 15; Serial No. 155,812; published Jan. 30, 1923.
Tires, inner tubes, tire casings and shoes, etc., Vehicle. Ideal Tire and Rubber Company. 168,179; May 15; Serial No. 169,401; published Jan. 30, 1923.
Tires, Rubber. Henderson Tire & Rubber Co. 168,190; May 15; Serial No. 165,926; published Jan. 30, 1923.
Tires, Rubber. Overman Cushion Tire Company. 168,241–3; May 15; Serial No. 167,093–5; published Jan. 30, 1923.
Tires, Rubber cushion. Lambert Tire & Rubber Company. 168,182; May 15; Serial No. 169,309; published Jan. 30, 1923.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. 168,082; May 15; Serial No. 138,771; published Feb. 27, 1923.
Toilet articles and preparations. Continental Drug Corporation. 168,058; May 15; Serial No. 170,056; published Feb. 6, 1923.
Toilet-bowl or privy cleaner. B. Heller & Company. 168,311; May 15.
Toilet lotions. M. E. Brinckerhoff. 168,097–8; May 15; Serial Nos. 168,612–12; published Feb. 13, 1923.
Toilet preparations. D. Mason. 168,119; May 15; Serial No. 157,330; published Feb. 13, 1923.
Toilet preparations. W. J. Scott. 168,295; May 15.
Toilet preparations—viz, toilet clay. J. H. Martin. 168,233; May 15; Serial No. 171,180; published Feb. 13, 1923.
Tomatoes, Fresh. F. E. Mojonnier. 168,105; May 15; Serial No. 164,935; published Feb. 20, 1923.
Tonic, Nerve. C. B. Paz. 168,114; May 15; Serial No. 151,019; published Feb. 20, 1923.
Tonics for aiding digestion, purifying the blood, etc. Modern Pharmacal Co. 168,106; May 15; Serial No. 164,819; published Feb. 13, 1923.
Tools, Metal-working small. Cleveland Twist Drill Company. 168,219; May 15; Serial No. 172,321; published Feb. 27, 1923.
Tubes, Inner. S. Hershenstein. 168,197; May 15; Serial No. 166,000; published Jan. 30, 1923.
Twine, rope, or cordage. M. J. Grady Company. 168,224; May 15; Serial No. 172,220; published Feb. 13, 1923.
Undergarments of textile fabric. A. Stein & Company. 168,157; May 15; Serial No. 165,218; publishing Jan. 30, 1923.
Underwear, Ladies' and children's. James A. Hearn & Son, Inc. 168,198; May 15; Serial No. 165,993; published Jan. 30, 1923.
Varnishes, enamel paint, gilding powders, liquid gold paint, etc. Gerstendorfer Bros. 168,252; May 15; Serial No. 172,938; published Feb. 13, 1923.
Vises, bit braces, planes, nail sets, hammers, etc. Stanley Works. 168,149; May 15; Serial No. 172,562; published Feb. 20, 1923.
Vises, bit braces, planes, nail sets, etc. Stanley Works. 168,225; May 15; Serial No. 172,065; published Feb. 20, 1923.
Washing machines, Electric clothes-. Savage Arms Corporation. 168,145; May 15; Serial No. 169,694; published Feb. 20, 1923.
Watch crystals, Machines for applying. Germanow-Simon Machine Co. 168,176; May 15; Serial No. 169,632; published Feb. 13, 1923.
Window squeegee. A. Wenger. 168,057; May 15; Serial No. 170,261; published Feb. 20, 1923.
Woolen fabrics. Somersville Manufacturing Co. 168,303; May 15.
Wrenches, Pipe. J. H. Williams & Co. 168,223; May 15; Serial No. 172,249; published Feb. 20, 1923.
Yarns, Artificial-silk, worsted, and mixed artificial-silk and worsted. Textile Manufacturing Co. 168,221; May 15; Serial No. 172,299; published Feb. 20, 1923.

ALPHABETICAL LIST OF LABELS.

American Beauty. For Tin Cans Containing Shrimp. Biloxi Packing and Trading Company. 25,925; May 15.
Anti-Fouling Boat Bottom Paint. For Boat Paint. Westcott, Slade and Balcom Company. 25,947; May 15.
Bond Bread. For Bread. E. Frisch. 25,930; May 15.
Cheese-Treats. For Cheese. W. Frank. 25,927; May 15.
Chocolate Covered Cherries. For a Pasteboard Box Containing an Article of Confectionery. Hopewell Chocolate Company. 25,935; May 15.
Corona Del Java. For Cigars. A. C. Henschel & Co. 25,933; May 15.
Frigid Fruits. For Frozen Candy Confection. Frigid Fruits Corporation. 25,929; May 15.
Jay-Kay Khaki. For Cotton Piece Goods, Khaki Colored. Jenkins, Kreer & Co. Inc. 25,937; May 15.
Kellogg's Corn Flakes. For Cereal Breakfast Food. Kellogg Company. 25,938; May 15.
Kellogg's Bran. For Cereal Breakfast Food. Kellogg Company. 25,939; May 15.
Mary Fraser Candies. For Candies. Mary Fraser Candies, Inc. 25,928; May 15.
Mayflower-Brand. For Malt Extract. S. Krepstman. 25,940; May 15.
Neo. For a Preparation for Destroying Bugs. M. Robins. 25,942; May 15.
Nile Queen. For Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths. Fort Howard Paper Company. 25,926; May 15.
No. 2 Tru Lite Acme. For Lamp Chimneys. Gill Brothers Company. 25,931; May 15.
No. 2 Tru Lite O. K. For Lamp Chimneys. Gill Brothers Company. 25,932; May 15.
Pom-Po-Lay. For Preparation Suitable for the Treatment of the Hair. G. H. Weyer. 25,948; May 15.
Rogers Developing Powders. For Containers for a Powder for the Developing of Latent Prints. W. J. Rogers. 25,943; May 15.
United States Bronze Powder Works. For Bronze Powder. United States Bronze Powder Works, Inc. 25,945–6; May 15.
Vegetone. For Stomach Relief Remedy. E. E. Stiner. 25,944; May 15.
White Pine Expectorant. For Cough Sirup. N. V. Kroeze. 25,941; May 15.
William Burdell. For Cigars. A. C. Henschel & Co. 25,934; May 15.
Wooly-Lamb. For Infants' Hose. Hub Hosiery Mills. 25,936; May 15.

ALPHABETICAL LIST OF PRINTS.

Ask for the Hirschnet. For Hair Nets. Hirsch's Hair Bazaar Inc. 6,705; May 15.
Face to Face. For Palmolive Soap. Palmolive Company. 6,708; May 15.
Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. Hartmann Trunk Company. 6,703; May 15.
Haynes. For Automobiles. Haynes Automobile Company. 6,704; May 15.
Kirk's Cocoa Hardwater Castile. For Soap. James S. Kirk & Company. 6,706; May 15.
Neo Bug Destroyer. For a Preparation for Destroying Bugs. M. Robins. 6,709; May 15.
Thermalene Gas for Cutting & Welding. For Generators for Producing Gas. Thermalene Gas Corporation. 6,710; May 15.
We Sell Dr. Lawton's Guaranteed Fat Reducer. For Surgical Appliances. T. Lawton. 6,707; May 15.
White Trucks. For Motor Trucks. White Company. 6,711; May 15.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alimentary paste products. Tharinger Macaroni Company. 171,186; May 15.
Alloys of copper, zinc, and nickel, wire in coils, etc. Metal. Seymour Manufacturing Company. 175,954; May 15.
Anchor rods. A. B. Chance. 176,324; May 15.
Antiseptic solution, mouth wash, tooth paste, etc. W. Lloyd Wood, Limited. 172,308; May 15.
Apples, Fresh. Acme Orchard Co. 176,149; May 15.
Apple wrappers. F. C. Strype. 176,924; May 15.
Aprons for icemen. United States Rubber Company. 171,002; May 15.
Bag filling and packaging machinery. Bates Valve Bag Company. 177,539; May 15.
Bags, Flat. H. C. Gamble. 177,664; May 15.
Bags, Ladies' vanity. O. J. Milnor. 138,292; May 15.
Bearing and packing metal, brass and bronze castings. Fredericksen Company. 175,925; May 15.
Bed springs. Cleveland Wire Spring Company. 175,465–6; May 15.
Beverage sold as a soft drink. M. L. Eisenberg. 175,349; May 15.
Beverages sold as soft drinks and sirups, etc., for making same. W. D. Bost. 176,444; May 15.
Beverages sold as soft drinks and sirups for making same. W. E. Tanner. 174,495; May 15.
Beverages sold as soft drinks and sirups therefor. E. V. Kirby. 175,249; May 15.
Blankets and cotton blanket piece goods, Cotton. Esmond Mills. 173,703; May 15.
Bran. Midland Flour Milling Co. 169,368; May 15.
Bread, cakes, and pies. Schlater's, Incorporated. 158,902; May 15.
Bronze, Bearing. Oregon Brass Works. 178,274–5; May 15.
Brooms. M. G. Goeller's Sons. 175,861; May 15.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. 175,585; May 15.
Butter, eggs, and cheese. H. N. Brawner, jr. 170,707; May 15.
Cakes and bread. Atlas Baking Company. 166,623; May 15.
Camisoles, bloomers, chemises, etc. Laskin Brothers. 171,223; May 15.
Candies and assorted chocolates. Union News Company. 172,498; May 15.
Candies, Chocolate. Parnibeck Chocolate Co. 175,515; May 15.
Candy. E. Dean. 169,435; May 15.
Candy. Elm City Candy Co. 147,719; May 15.
Candy. Gurley Candy Company. 163,267; May 15.
Candy. Walter J. Hirsch Company. 162,547; May 15.
Candy Robert A. Johnston Company. 175,650; May 15.
Candy. G. Kantes. 169,764; May 15.
Candy. A. G. Morse Co. Inc. 175,674; May 15.
Candy. Ohio Confection Company. 175,883; May 15.
Candy. Frank G. Shattuck Company. 172,560; May 15.
Canned and bottled fruits, jams, jellies, and olives. Virden Packing Company. 175,581; May 15.
Canned fish. F. H. Fromm. 172,329; May 15.
Canned fruits. Banning Canning Co. 164,229; May 15.
Canned fruits. Kings County Packing Co. 168,421; May 15.
Canned fruits and vegetables. F. M. Ball & Company. 174,229; May 15.
Canned fruits and vegetables. Kings County Packing Co. 171,327; May 15.
Canned fruits and vegetables, jams, preserves, dried fruits, etc. California Growers Association, Inc. 169,844; May 15.
Canned salmon. Chinook Packing Company. 170,927; May 15.
Canned salmon. M. Pinkus. 175,735; May 15.
Canned vegetables, fruits, and fish, spices, etc. Karasik, Holleb & Co. 172,881; May 15.
Cans and cans for packing and shipping ice cream, Milk-shipping. Des Lauriers Metal Products Co. Inc. 178,233; May 15.
Cantaloupes, fresh citrous fruits, and grapes. T. H. Peppers. 162,948; May 15.
Capsules for colds, la grippe, etc., Medicated. B. B. Ferber. 173,821; May 15.
Carpets, Wilton and plush. M. J. Whittall Associates. 167,064; May 15.
Cash registers. American Cash Register Co. 175,900; May 15.
Chains, Sheet-metal. Smith & Egge Manf'g. Co. 173,446; May 15.
Chairs, porch rockers, and settees, Porch. H. A. Peart. 158,645–6; May 15.
Cheese. C. E. Zuercher & Co. 174,052; May 15.
Chemical preparations used in the curing of meat. B. Heller & Company. 172,992; May 15.
China. Porzellanfabrik Ph. Rosenthal & Co. A. G. 171,102; May 15.
Chinaware. Czechoslovak Art Shop Inc. 172,032; May 15.
Chocolate. Lamont-Corliss and Company. 166,307; May 15.
Chocolates and candies. E. Greenfield's Sons. 170,385; May 15.
Cigars, cheroots, and little cigars. Leopold Powell & Co. 149,480; May 15.
Clay prepared for use in cleansing the skin and pores, Natural. Overland Pharmacy Co. 168,121; May 15.
Clothing, Men's outer. B. Kuppenheimer & Co. 170,587; May 15.
Clothing models and patterns. M. Levitt. 171,224; May 15.
Coffee and tea. Requa Bros. 170,834; May 15.
Coffee and the like, Empty containers for. Jas. H. Forbes Tea & Coffee Co. 170,975; May 15.
Collars. Harry and Charles Cohen. 171,151; May 15.
Coloring for food and confectionery. B. Heller & Company. 173,046; May 15.
Combs. American Hard Rubber Company. 173,024; May 15.
Compound for loosening tight nuts on bolts and lubricating leaf springs. J. A. Carroll. 177,726; May 15.
Cordage. E. T. Rugg & Co. 158,835; May 15.
Cords, twines, ropes, and lines. Highland Cordage Company. 177,668; May 15.
Corn remedy. D. I. Kanter. 173,221; May 15.
Cotton crêpe fabrics in the piece. Waumbek Manufacturing Company. 178,317; May 15.
Cotton, gauze, and waste, bandage rolls, etc., Absorbent. Hygienic Fibre Company. 177,784; May 15.
Cotton piece goods. Hunter Mfg. & Commissoin Co. 177,782; May 15.
Cotton piece goods. Louis Siegbert & Bro. 172,493; May 15.
Cotton piece goods. Voss & Stern. 177,934; May 15.
Cotton piece goods. Voss & Stern. 177,938–9; May 15.
Cotton piece goods. Wilton Manufacturing Company. 177,718; May 15.
Cotton piece goods and silk and cotton fabrics. Moraff, Twining & Co. 177,862; May 15.
Cotton, wool, silk, and mixtures in the piece, Textile fabrics of. Brownstein-Louis Co. 176,160; May 15.
Cough drops. Smith Brothers, Inc. 173,985; May 15.
Crab meat. Taiyo Trading Company. 171,236; May 15.
Crackers and cakes. Green & Green Company. 158,772; May 15.
Cream, toilet waters, perfumes, etc. Cleansing and finishing. Grant Watkins Co. 173,483; May 15.
Creams, Facial. Medicraft Company. 173,433; May 15.
Creams, Vanishing face and cold. R. Flores. 168,408; May 15.
Dentifrice and prophylactic paste. C. A. L. Reed. 174,860; May 15.
Deodorizing preparation, Chemical. Fouke Fur Company. 173,325; May 15.
Deodorizing preparation for ice boxes, etc. B. Heller & Company. 172,043; May 15.
Digestant compound. G. A. Swift. 175,531; May 15.
Dolls. George Borgfeldt & Co. 175,838; May 15.
Dolls and toy favors. S. Robert. 173,247; May 15.
Dress shields. Canfield Rubber Company. 166,292; May 15.
Dresses. Marvin Shaw and Co. 170,995; May 15.
Dresses, Children's, girls', and women's. I. Ginsberg & Bros. 170,626; May 15.
Drink, Nonalcoholic, maitless orange. Comet's California Orange Drink Co. 176,452; May 15.
Elastic bandages. R. L. Hawkins. 157,315; May 15.
Explosives. General Explosives Company. 148,383; May 15.
Eyes, Artificial. C. E. Biel. 178,211; May 15.
Feed, Poultry. Quaker Oats Company. 174,106; May 15.
Fertilizers and lime for fertilizers. Lancaster Bone Fertilizer Co. Inc. 178,260; May 15.
Fishing flies and artificial bait. Horrocks-Ibbotson Co. 173,601; May 15.
Flavoring extracts, crushed and canned fruits, Food-. S. E. Shaffner Co. 168,807; May 15.
Flour, Pastry. Neal Manufacturing Co. 174,022; May 15.
Flour, Wheat. J. C. Lysle Milling Company. 173,099; May 15.
Flour, Wheat. Quaker Oats Company. 174,107; May 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fly-chasing attachments to be attached to screen doors. H. Pilger. 172,012; May 15.
Foods, Cereal breakfast. Postum Cereal Company. 174,976; May 15.
Fruits and fresh vegetables, Fresh citrous. Andrews Brothers Company. 176,152; May 15.
Fruits, Fresh citrous. Citrus Sales Corporation. 171,903; May 15.
Fruits, Fresh citrous. Dillard & Keene Co. 172,668; May 15.
Fruits, Fresh citrous and deciduous. Mutual Orange Distributors. 168,060; May 15.
Fur coats, scarfs, muffs, chokers, and dolmans. Philipsborn's Inc. 171,036; May 15.
Game played with pieces, Table. Noble and Noble. 177,102; May 15.
Gasoline and naphtha. Standard Oil Company of New York. 169,934; May 15.
Ginger ale. M. L. Eisenberg. 175,350; May 15.
Hair and scalp, Preparation for the treatment of. F. De Zon. 174,130; May 15.
Hair lotions and skin creams. S. R. Glassmire. 173,283; May 15.
Hair nets. French Importing Co. 170,480; May 15.
Hair nets. Globe Import Company. 177,734; May 15.
Hair, Preparation for dressing the. Keep Komb Co. 175,560; May 15.
Hair preparations. Blue Bird Inc. Perfumers. 174,686; May 15.
Hair tonic. P. P. Davis. 174,690; May 15.
Hames, hame trimmings, and saddlery hardware. U. S. Hame Company. 178,312–3; May 15.
Hammers, Internal-combustion motors for machine forging. Little Giant Company. 170,393; May 15.
Hats. Hammell-Neuman Co. 164,435; May 15.
Hose. D. J. Healy. 170,648; May 15.
Hosiery. American Wholesale Corporation (Baltimore Bargain House). 170,613; May 15.
Hosiery. Idolite Hosiery Mills, Inc. 171,218; May 15.
Hosiery. Noe-Equi Hosiery Mills, Inc. 170,690; May 15.
Hosiery, underwear, corsets, brassières, etc., Ladies' misses', and children's. A. I. Straus. 169,879; May 15.
Ice cream. C. C. Madson. 166,396; May 15.
Inks, Printing. Jaenecke-Ault Company. 176,740–1; May 15.
Inks, Printing. Queen City Printing Ink Company. 177,619; May 15.
Inks, Printing. Queen City Printing Ink Company. 177,865–6; May 15.
Insecticide. Solomia (1922) Limited. 174,343; May 15.
Insecticide, deodorant, and disinfectant. W. D. Wiegand. 171,395; May 15.
Insecticides. Carbo-Sul Corporation. 174,609; May 15.
Laces and cotton and silk goods. Morisse Lace & Embroidery Co. 177,986; May 15.
Lard substitute, Vegetable. Cooknut Corporation. 175,651; May 15.
Lavatory cleanser. H. Pickup. 174,259; May 15.
Laxative. Battle Creek Food Company. 175,839; May 15.
Lenses, Ophthalmic. R. H. Macy & Co. 175,363; May 15.
Linen in the piece, linen table covers and napkins, Pure. T. Buettner & Co. 177,895; May 15.
Linoleum. O. W. Richardson & Co. 175,945; May 15.
Liquid, Graining. B. E. Baxter. 176,395; May 15.
Locks, Coin-controlled. Michigan Coin Lock Company. 178,350; May 15.
Logwood extract. Yorkshire Dyeware & Chemical Company. 173,064; May 15.
Lotion, Face. D. Pepple and Co. 174,669; May 15.
Lubricants. Keystone Lubricating Company. 178,508–12; May 15.
Lubricants. Keystone Lubricating Company. 178,514–21; May 15.
Lubricants. Keystone Lubricating Company. 178,726–37; May 15.
Lubricants. Keystone Lubricating Company. 178,739–41; May 15.
Madras in the piece. Carter Dry Goods Co. 169,004; May 15.
Masticatories. J. H. Walter. 164,738; May 15.
Matches. Mitsui Bussan Kaisha, Ltd. 156,095; May 15.
Medical and surgical appliances. Pfau's American Instruments Co. 175,024; May 15.
Medicated bath preparation. N. S. Zucker. 174,984; May 15.
Medicated tablets for headaches, etc. T. J. Mueller. 173,850; May 15.
Medicinal herb preparation. Wing Lee Wai Company. 172,364; May 15.
Medicinal herb preparation. Wing Lee Wai Company. 172,569–70; May 15.
Medicinal ointment. C. C. Marshall. 175,877; May 15.
Medicinal preparation. Eli Lilly & Company. 166,382; May 15.
Medicinal preparation to be used as a prophylactic, antiseptic, and germicide. H. Wolcott. 175,588; May 15.
Medicine for use in treatment of ailments of the liver, stomach, and bowels and as a blood purifier. O. W. Dean Company. 174,958; May 15.
Medicine used in the treatment of asthma, bronchitis, etc. P. Raymond. 175,532; May 15.
Medicine used in the treatment of diphtheria. Smiley Company. 174,342; May 15.
Metal, Babbitt. U. T. Hungerford Brass & Copper Co. 178,390; May 15.
Metal used for agitating or stirring mineral, etc., Cast. American Abrasive Metals Company. 177,464; May 15.
Metals. Seymour Manufacturing Company. 175,952; May 15.
Milk, butter, eggs, and cheese, Raw and pasteurized. H. N. Brawner, jr. 161,349; May 15.
Musical instruments, parts, and strings therefor, Stringed. H. A. Weymann & Son, Inc. 177,534–5; May 15.
Naphthalene solvent for gas mains and services. Northwestern Blaugas Company. 156,593; May 15.
Nebulizers and syringes. Parke, Davis & Company. 170,782; May 15.
Oats, Rolled. Rich Brothers Cereal Company. 174,031; May 15.
Oil, Cottonseed. Cooknut Corporation. 175,652; May 15.
Oil, Olive. Briones & Company, Inc. 167,039; May 15.
Oil, Salad. Lebannon Oil Co. 160,416; May 15.
Oils, Lubricating. C. R. Gillett. 169,293; May 15.
Olives, allspice, savory, mustard, etc. Chas. W. Bauermeister Co. 166,932; May 15.
Orthodontic appliances. S. S. White Dental Manufacturing Company. 162,226; May 15.
Paint composition, Dry. A. L. Rice, Inc. 165,507; May 15.
Paint, varnish, and paint enamel, Ready-mixed. Republic Varnish Company. 177,107; May 15.
Paints, varnishes, paint enamels, dry colors. Bradley-Wise Paint Company. 172,464; May 15.
Pants, vests, coats, work shirts, hiking breeches. M. Liberman. 170,940; May 15.
Paper and mailing envelopes, Writing and printing. American Writing Paper Company. 175,540; May 15.
Paper, Bond writing and printing. Collins Mfg. Co. 168,836; May 15.
Paper, Carbon. Kee Lox Manufacturing Company. 177,384; May 15.
Paper, Crêpe. Tissue Company. 177,150; May 15.
Paper, Writing and bond. Becker Paper Corporation. 178,209; May 15.
Paste, Dry. Pyramid Process Co. 177,200; May 15.
Pens and pencils, Fountain. M. & H. Silver, Incorporated. 174,928; May 15.
Pepper. Peter Rabbit Stores. 167,926; May 15.
Percales in the piece. Carter Dry Goods Co. 169,002; May 15.
Percales in the piece. Carter Dry Goods Co. 169,006; May 15.
Perfumes. G. A. Sakeie. 175,373; May 15.
Perfumes, extracts, toilet water, rice powders, etc. M. Schoepfer. 175,524; May 15.
Petrolatum. Standard Oil Company. 175,414; May 15.
Pharmaceutical preparations. H. C. Carel. 163,859; May 15.
Phonographic apparatus, Device for controlling the starting and stopping of. Thomas A. Edison Incorporated. 139,518; May 15.
Phonographs. Goldenola Talking Machine Co. 174,732; May 15.
Pickles. E. W. Maffitt. 171,371; May 15.
Pickles and canned vegetables. American Pickle & Canning Company. 166,621; May 15.
Picture films, Motion-. Metro Pictures Corporation. 175,093; May 15.
Pile fabrics in the piece. Sidney Blumenthal & Co. Inc. 175,764; May 15.
Pile fabrics in the piece. Sidney Blumenthal & Co. Inc. 175,766; May 15.
Pins, hairpins, safety pins, elastics, and hair nets. Aller Brothers. 173,390; May 15.
Pipes, Tobacco. Delacour Bros., Ltd. 177,429; May 15.
Pipes, Tobacco. Delacour Brothers, Ltd. 178,377–8; May 15.
Polishes, Furniture and automobile. P. S. Bern. 174,505; May 15.
Powder puffs. Western Bottle Manufacturing Company. 176,140; May 15.
Powder puffs, toothbrushes, hairbrushes, hand and clothes brushes. Western Bottle Manufacturing Company. 176,145; May 15.
Powders, Laxative. P. Schanpner. 175,889; May 15.
Preparation for cleansing the scalp and stimulating the growth of hair. R. Miranda. 174,906; May 15.
Preparation for repelling flies from cattle, horses, dogs, etc. B. Heller & Company. 173,045; May 15.
Preparation for repelling mosquitoes. Mentholatum Company. 172,386; May 15.
Preparation for the treatment of tonsillitis, hoarseness, etc. J. J. Bariscillo. 175,641; May 15.
Prunes. J. A. Wayborn. 154,631; May 15.
Publication, Monthly. Skinner Machinery Company. 174,493; May 15.
Pumping apparatus. Allen Hydrostatic Pump Syndicate Ltd. 174,191; May 15.
Pyroxylin thinner. Flood & Conklin Company. 178,174; May 15.
Racks used in connection with the game of Mah Juck. J. T. Gaffey. 174,770; May 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Refrigerating apparatus. Automatic Refrigerating Company. 177,644; May 15.
Renovating, cleaning, and metal-polishing preparations. Pom Chemical Co. Inc. 168,124; May 15.
Rugs and carpets. O. W. Richardson & Co. 175,944; May 15.
Salt, Culinary. E. Feuillie. 173,824; May 15.
Sauce for meat and fish. C. I. Wood. 139,240; May 15.
Saxophone and clarinet reeds. G. E. Lefebvre. 176,195; May 15.
Sherbet bars. Coverdale & Bruebaker. 168,633; May 15.
Silk and cotton mixed goods in the piece. Susquehanna Silk Mills. 178,304; May 15.
Silk, cotton, and silk and cotton mixed piece goods. L. Schoolhouse. 177,876; May 15.
Silk piece goods. Haas Brothers Fabrics Corporation. 177,844–5; May 15.
Silk piece goods. H. R. Mallinson & Co. Inc. 178,110; May 15.
Silk piece goods. H. R. Mallinson & Co. Inc. 178,524; May 15.
Silk piece goods. T. J. Mitchell & Co. Inc. 177,400; May 15.
Soap. Harris Soap Company. 166,945; May 15.
Soap, polishes, and abrader preparations. Titanium Pigment Company. 173,110; May 15.
Soap, Toilet. J. Grossmith & Son, Limited. 170,977; May 15.
Soft drinks, Maltless. M. L. Eisenberg. 175,351; May 15.
Spices. American Tea & Coffee Co. 141,447; May 15.
Springs, Box. International Bedding Co. Inc. 164,049; May 15.
Stamps and coupons, booklets, etc., Trading. Bankee Corporation of America. 175,421; May 15.
Steel forgings. A. Finkle & Sons Company. 177,908; May 15.
Steering-post control and exhaust lock. A. H. Adams. 176,435; May 15.
Sugar. Tate & Lyle Limited. 161,707; May 15.
Sugar, Corn. Battle Creek Food Company. 175,702; May 15.
Suits, overcoats, nightshirts, shirts, etc., Boys-. A Letts. 111,114; May 15.
Suits, overcoats, vests, trousers, Men's and boys'. S. & B. Summer Clothing Co. 171,189; May 15.
Sweaters. Palm Knitting Co. 153,771–3; May 15.
Tablet, Antimalarial. F. S. Duffy. 175,547; May 15.
Tea. C & T Importing Company. 171,984; May 15.
Thermometers, Index. E. Koehn. 164,057; May 15.
Toilet creams. Haubigant, Inc. 175,493; May 15.
Toilet preparations. Laboratory Specialty Company. 141,229; May 15.
Tonic. Proud's Portolive Co. 172,615; May 15.
Toy animals. Asiatic Import Co. 177,029; May 15.
Toys, etc., Stuffed figure. Ted Morton & Co. Inc. 176,639; May 15.
Toys, Figure. W. Fuld. 176,961; May 15.
Trunks, Wardrobe. Seward Trunk and Bag Company. 178,004; May 15.
Vaccine, Urine. T. W. Deachman. 167,868; May 15.
Varnish and varnish stains. Blackburn Varnish Co. 176,784; May 15.
Vehicles, Vacuum feed systems for motor. Byrne, Kingston & Co. 171,724; May 15.
Waists and shirts, particularly underwaists. Children's. R. & J. Waist Company. 144,429; May 15.
Washing compound. Mello Company. 173,607; May 15.
Waterproofing compound for use on shingle roofs, etc. J. W. Jackson. 173,424; May 15.
Wire, Barbed. Gulf States Steel Company. 177,777–9; May 15.
Wire fences. Atlantic Steel Company. 176,531; May 15.
Wool, worsted, silk, cotton, and linen piece goods. Star Textile Mills, Inc. 169,935; May 15.
Wrenches, Tappet. Bonney Forge & Tool Works. 173,993; May 15.
Yarns, Wool. D. J. Healy. 178,038; May 15.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abdominal band. M. Miner. 1,454,330; May 8.
Adding and totaling machine, Transfer. T. K. Dixon, A. Klein, J. C. Cox, and G. R. Ghent. 1,454,108; May 8.
Aerial navigating apparatus. M. Hollander. 1,454,283; May 8.
Aeroplane. T. H. Bell and J. G. Schoenleber. 1,454,828; May 8.
Agitator. K. Weidlich. 1,454,199; May 8.
Agitator and sampler, Combination. L. Sturges. 1,454,300; May 8.
Air and the like, Filtering apparatus for. S. J. Marx. 1,454,248; May 8.
Aircraft, Multiple control system for multimotored. J. A. Christen. 1,454,505; May 8.
Aircraft, Wireless direction-finding means for and piloting. H. R. C. Van de Velde and J. M. Furnival. No. 1,454,592; May 8.
Airplane. D. R. McCullough. 1,454,479; May 8.
Airplanes, Synchronized machine gun for. O. A. Ross. 1,454,137; May 8.
Airship. J. G. Lukacs. 1,454,059; May 8.
Air vessels, Ballast bag for. F. F. Kruckenberg. 1,454,589; May 8.
Alarm: *See*—
Automobile alarm. Theft alarm.
Automobile burglar alarm.
Alcohol from galactose, Making ethyl. E. C. Sherrard. 1,454,521; May 8.
Aldehydes, Apparatus for use in the manufacture of. E. J. Winter. 1,454,609; May 8.
Alloy knife hardening or tempering. T. B. Lashar. 1,454,387; May 8.
Ammonia synthesis and catalyst therefor. J. C. Clancy. 1,454,599; May 8.
Amusement device. J. A. Fisher. 1,454,273; May 8.
Amusement device. M. Unger. 1,454,775; May 8.
Arseno compounds which are stable in solution, Preparing. W. Kolle. 1,454,748; May 8.
Ash conveyer. A. Girtanner. 1,454,277; May 8.
Asparagus cutter. N. Nielsen. 1,454,555; May 8.
Assembling and lasting machine. J. H. Reed. 1,454,562; May 8.
Assembling tool. C. N. Teetor. 1,454,349; May 8.
Attaching bracket, Adjustable. Z. P. Loyd and H. W. Larsson. 1,454,394; May 8.
Autographic register. J. P. Cowley. 1,454,810; May 8.
Automobile accelerator pedal. B. D. Adams. 1,454,258; May 8.
Automobile alarm. W. B. Eberly. 1,454,216; May 8.
Automobile alarm signal. E. Thomas. 1,454,141; May 8.
Automobile burglar alarm. C. H. Summerill. 1,454,795; May 8.
Automobile bumper. M. B. Ericson. 1,454,270; May 8.
Automobile bumper. F. A. Wernig. 1,454,360; May 8.
Automobile engine accelerator. J. T. Holmquist. 1,454,512; May 8.
Automobile hood hinge. E. L. Ackerman. 1,454,257; May 8.
Automobile hook. W. C. Gruner. 1,454,734; May 8.
Automobile license-plate casing. W. A. Scott. 1,454,792; May 8.
Automobile lock. A. E. Zierick. 1,454,099; May 8.
Automobile radiators, Indicating device for. R. R. Fudge. 1,454,230; May 8.
Automobile seat. C. E. Gilbert. 1,454,232; May 8.
Automobile steering wheel. R. R. Graebert. 1,454,234; May 8.
Automobile steering wheels, Lock for. R. R. Graebert. 1,454,233; May 8.
Automobile title-identifying, theft discouraging and detecting means. C. M. Jones. 1,454,746; May 8.
Automobile toilet attachment. N. Banks. 1,454,618; May 8.
Automobile top frame and deck. F. J. Kurtz. 1,454,321; May 8.
Automobiles, Illuminating device for. F. W. Becker and J. Lagner. 1,454,465; May 8.
Automobiles, Transmission-lock mechanism for. E. G. Clements. 1,454,576; May 8.
Autos or other vehicles, Bumper or fender for. W. H. Rapeport. 1,454,407; May 8.
Awning fixture. J. A. Cochran. 1,454,374; May 8.
Bag-cutting machine. I. C. Howlett. 1,454,743; May 8.
Bag filling and closing machine. J. D. Lane and J. Macnaughtan. 1,454,060; May 8.
Baker's installation. J. M. Gantvoort. 1,454,675; May 8.
Banding articles in transit, Method and machine for. L. E. La Bombard and M. H. Sidebotham. 1,454,545; May 8.
Banjo. J. A. Bolander. 1,454,620; May 8.
Barrel seal. G. R. Rowland. 1,454,488; May 8.
Bath support. R. Graves. 1,454,112; May 8.
Battery: *See*—
Storage battery.
Battery-control device, Electric-. W. V. Turner. 1,454,526; May 8.
Battery separators, Trimmer for. J. E. Norris. 1,454,399; May 8.
Beam hanger. M. Liptak. 1,454,292; May 8.
Bearing. S. S. Cramer. 1,454,041; May 8.
Bearing, Composite roller. J. Kuttner. 1,454,057; May 8.
Bearing, Shaft. W. R. Layne. 1,454,682; May 8.
Bearing, Roller. A. E. Griffith. 1,454,785; May 8.
Bed, Auto camp. F. H. Dudley. 1,454,670; May 8.
Beds, Canopy for automobile. C. D. McDonald. 1,454,395; May 8.
Bed footpieces, Automatic locking device for wall-. N. Sinclair. 1,454,523; May 8.
Bed multicopy machine, Flat-. J. Q. Sherman and A. W. Metzner. 1,454,821; May 8.
Bed, Vehicle. R. E. Byrne. 1,454,037; May 8.
Beet topper. C. A. J. Andersen. 1,454,501; May 8.
Bellyband connection. L. C. Wood. 1,454,306; May 8.
Belt fastener. R. S. Moore. 1,454,450; May 8.
Belt-fastening machine. R. S. Moore. 1,454,449; May 8.
Belt loop. A. D. Crosby. 1,454,468; May 8.
Binder, Loose-leaf. A. W. Myer. 1,454,182; May 8.
Bleaching pulp and apparatus therefor. R. B. Wolf. 1,454,610; May 8.
Bobbins, Mounting for. W. I. Tuttle. 1,454,660; May 8.
Boiler: *See*—
Ham boiler.
Boiler and like furnace. J. Crompton and W. Gallagher. 1,454,229; May 8.
Boiler-feed-water regulator. R. W. Andrews. 1,454,146; May 8.
Boilers, Cover for. P. Karsack. 1,454,118; May 8.
Boilers for burning residual molasses, Furnace for steam. H. A. Griffin. 1,454,586; May 8.
Boiler with superheater. J. A. Barnes. 1,454,100; May 8.
Bolt-locking device. H. C. Evelyn. 1,454,271; May 8.
Bookrest. W. J. Walsh. 1,454,197; May 8.
Books in detachable covers, Means for securing. J. S. King. 1,454,288; May 8.
Books, Machine for casing in-. C. O. Strom. 1,454,299; May 8.
Boring mill, Horizontal. W. L. Schillenbach. 1,454,190; May 8.
Bottle. F. J. de S. Coty. Des. 62,318; May 8.
Bottle and cap, Combined. P. Bassaler. Des. 62,315; May 8.
Bottle capper. E. F. Edgecombe, jr. 1,454,540; May 8.
Bottle top, Ornamental. H. L. Heiter. 1,454,510; May 8.
Box: *See*—

Compartment box.	Meter box.
Display box.	Powder box.
Fare box.	Sketch box.
Glove box.	Switch box.
Match box.	

Box machine, Wirebound-. H. J. Koch. 1,454,518; May 8.
Boxes, Making wirebound. H. J. Koch. 1,454,517; May 8.
Bracket: *See*—

Attaching bracket.	Supporting bracket.
Curtain-rod bracket.	Window bracket.

Brake: *See*—

Coaster brake.	Fluid-pressure brake.
Elevator brake.	Hydraulic brake.

Brake mechanism. W. C. Hedgcock. 1,454,167; May 8.
Brake mechanism. H. Vanderbeek. 1,454,091; May 8.
Brass, Method of and flux for refining. H. Thomas. 1,454,351; May 8.
Brassière. J. Rothkowitz. 1,454,790; May 8.
Bread-wrapping machines, Loaf catcher for. J. R. Hayes. 1,454,270; May 8.
Breathing apparatus. F. W. Koehler. 1,454,645; May 8.
Brick-faced metallic trim. M. Liptak. 1,454,294; May 8.
Brick machine. H. W. B. Graham. 1,454,165; May 8.

Brick trim for walls. M. Liptak. 1,454,293; May 8.
Bricks, Method of and means for making. B. F. Weber. 1,454,826; May 8.
Bridge, Suspension. V. L. Sullivan. 1,454,772; May 8.
Broaching mechanism. H. L. Blood. 1,454,102; May 8.
Broom. H. Brown. 1,454,831; May 8.
Brush. F. Stebler. 1,454,191; May 8.
Bucket, Folding. L. W. Laurén 1,454,388; May 8.
Bucket, Fruit-picking. A. Z. Wells and J. M. Wade. 1,454,779; May 8.
Bucket lip. J. W. Plant. 1,454,456; May 8.
Buckle. C. E. Bradshaw. 1,454,534; May 8.
Buckle. G. T. Brannigan. 1,454,666; May 8.
Buckle, Belt. L. W. Shields. 1,454,522; May 8.
Buckle, Rustless. M. Harvie. 1,454,440; May 8.
Bumper. W. E. O'Brien and J. Smith. 1,454,764; May 8.
Burner: *See*—
Fuel burner.
Burner-drum-lifting means. J. S. Brennan. 1,454,265; May 8.
Burners, Flash igniter for gas. O. Spahr. 1,454,658; May 8.
Button, emblem, badge, pin or similar article. J. J. Di Natale. Des. 62,322; May 8.
Button, Shank. T. Donovan. 1,454,046; May 8.
Cable hanger. W. J. Peach. 1,454,559; May 8.
Cable release and assembling same, Flexible. C. E. Sturgis. 1,454,192; May 8.
Calculating machine. C. M. F. Friden. 1,454,295; May 8.
Calculator. F. W. Caldwell. 1,454,104; May 8.
Calling device. A. Vischer, jr. 1,454,496; May 8.
Camera. W. L. Dodge. 1,454,045; May 8.
Camera. F. S. Warren. 1,454,198; May 8.
Can: *See*—
Oil can.
Can-cap feed. H. L. Guenther. 1,454,383; May 8.
Can-closing machine, Sanitary. L. Dennison. 1,454,375; May 8.
Can, Sheet-metal. B. N. Wells. 1,454,802; May 8.
Can-washing machine. C. F. McEwan. 1,454,124; May 8.
Candle-forming machine. E. A. Houchin. 1,454,052; May 8.
Car couplings, Latch for railway-. W. F. Shaffer and B. Crutchfield. 1,454,083; May 8.
Car door, Dump-. G. G. Gilpin. 1,454,164; May 8.
Car-door-latching mechanism, Dump-. D. Hindahl. 1,454,786; May 8.
Car handling and dumping system. R. Peale. 1,454,602; May 8.
Car seal. W. K. Edgar. 1,454,217; May 8.
Car wheel, Mine-. F. W. Henrikson. 1,454,640; May 8.
Cars or other vehicles, Spring cover for motor. W. F. Cottrell 1,454,106; May 8.
Carbon bisulphide, Manufacture of. A. E. Delph. 1,454,708; May 8.
Carburetor, C. de Lukacsevics and J. J. Wittal. 1,454,730; May 8.
Carburetor attachment. J. W. Brown. 1,454,503; May 8.
Carburizing material and making same. L. Aeby. 1,454,612; May 8.
Card index. J. C. Russell. 1,454,791; May 8.
Carriage, Coping. F. J. T. Bell. 1,454,206; May 8.
Carriage runner, Convertible-baby-. A. N. Ladin. 1,454,749; May 8.
Cars, Self-coupling for mine. J. Whewell and H. I. Yoder. 1,454,201; May 8.
Case-emptying machine. S. M. Heulings. 1,454,051; May 8.
Casing cutter, overshot, and milling tool, Combination. W. H. Jones and M. Kinnebrew. 1,454,819; May 8.
Casket protector. G. A. Cunning. 1,454,427; May 8.
Cast-metal container. J. G. Lehman. 1,454,291; May 8.
Cast-metal wheel. L. Melanowski. 1,454,249; May 8.
Caster. H. R. Knaack. 1,454,119; May 8.
Casting apparatus. S. McFarland. 1,454,647; May 8.
Casting materials, Mold and process for. H. A. Myers. 1,454,066; May 8.
Casting metals. H. A. Myers and A. D. Straw. 1,454,064; May 8.
Casting metals and making and using the molds, Mold for. H. A. Myers. 1,454,065; May 8.
Casting of metal ingots, Hot top for. B. H. Howard and E. J. Turner. 1,454,741; May 8.
Cellulose pulp to remove odors therefrom, Treating. G. A. Richter. 1,454,339; May 8.
Chains, Repair link for. E. Prendergast. 1,454,335; May 8.
Chandelier. F. M. Portz. Des. 62,343; May 8.
Charging rack. F. T. Baird. 1,454,033; May 8.
Chimney cowl. W. T. McCullough. 1,454,752; May 8.
Chimney draft device. C. J. Prat. 1,454,561; May 8.
Chimney draft device with two fans. E. Prat. 1,454,560; May 8.
Chip distributer. D. C. Boyd. 1,454,575; May 8.
Chrome-iron sheet or article and making same. F. M. Becket and C. E. McQuigg. 1,454,464; May 8.
Chronometers and watches, Compensating balance spring for. C. E. Guillaume. 1,454,473; May 8.
Chuck. A. J. Lavoie. 1,454,121; May 8.
Chuck jaw. D. L. Bisset. 1,454,148; May 8.
Churn. T. E. Smith. 1,454,770; May 8.
Cigarette holder. A. R. Rieger. 1,454,487; May 8.
Cigars, Moistener for. O. H. Gunnell. 1,454,236; May 8.
Clamp: *See*—
Form clamp.
Cleaner: *See*—
Window cleaner.
Cleaning apparatus. J. M. Stepp. 1,454,381; May 8.
Clip: *See*—
Film clip.
Clip or staple. F. J. Yetter. 1,454,783; May 8.
Clothes-pressing machines, Vacuum attachment for. G. Peacock. 1,454,403; May 8.
Clutch governor. J. M. Vawter. 1,454,800; May 8.
Coal, Artificial. L. Robinson. 1,454,410; May 8.
Coaster safety appliance, Roller-. M. J. Neary. 1,454,760; May 8.
Coaster brake. C. M. Davis. 1,454,707; May 8.
Coating machine, Spectacle-frame-. A. E. Maynard. 1,454,177; May 8.
Coffee cartridge. C. B. Holland. 1,454,739; May 8.
Coin-controlled machine. A. Wittenberg. 1,454,420; May 8.
Coin retainer and dispenser. A. Lieberman. 1,454,445; May 8.
Collar attachment. A. Varaud. 1,454,607; May 8.
Comb and hair cutter, Combined. C. A. Fontaine. 1,454,715; May 8.
Combing machine. J. W. Nasmith. 1,454,484; May 8.
Combustible mixture. Device for producing and utilizing. S. Trood. 1,454,196; May 8.
Compartment box. T. K. P. Haines. 1,454,639; May 8.
Compressors, Centrifugal unloader for. F. W. Parsons. 1,454,402; May 8.
Computing machine. L. Fournier and G. Mang. 1,454,716; May 8.
Concrete-block-molding machine. C. H. Hoglund. 1,454,642; May 8.
Concrete, Manufacture of railway sleepers and the like of reenforced. O. Smreker. 1,454,794; May 8.
Concrete mixer. G. W. Adams. 1,454,370; May 8.
Concrete piles, Means for sinking. E. G. Gardner. 1,454,434; May 8.
Containers, Closure for. F. S. Hyatt. 1,454,170; May 8.
Containers, Making acidproof. J. E. Perrault. 1,454,687; May 8.
Controlling-member attachment. L. J. Cobus. 1,454,314; May 8.
Conveyer. O. J. Boos. 1,454,809; May 8.
Cooker, Steam-pressure. J. T. Slocomb. 1,454,835–6; May 8.
Cord gripping and securing device. A. M. Adams. 1,454,717; May 8.
Cords, Anchor connection for flexible. P. Risseman. 1,454,253; May 8.
Corner bead. L. E. Curtis. 1,454,042; May 8.
Corrugated roller. F. D. Wilson. 1,454,305; May 8.
Cotton-picking machine. W. T. Harris, L. F. Hamme, and W. T. Hoofnagle. 1,454,737; May 8.
Counter and register. H. Althaus and J. Fangmann. 1,454,614; May 8.
Coupling: *See*—
Flexible coupling.
Coupling. W. A. Gunn. 1,454,587; May 8.
Coupon book. A. MacKenzie. 1,454,447; May 8.
Cover-releasing device. J. C. Hall. 1,454,220; May 8.
Cuff, Reversible. S. H. Wingo. 1,454,365; May 8.
Cuff, Reversible. G. A. Ripley. 1,454,654; May 8.
Cultivator, Adjustable. J. B. Swan. 1,454,225; May 8.
Cultivator, Double-row. A. S. Krotz. 1,454,120; May 8.
Cultivators, Crust-breaking attachment for beet. G. W. Carey. 1,454,724; May 8.
Cup: *See*—
Electrically-operated oil cup.
Current-wave transmission, System of. H. J. Vennes. 1,454,495; May 8.
Curtain and shade holder, Combination. O. Nietzel. 1,454,557; May 8.
Curtain construction, Vehicle. H. Latiff. 1,454,681; May 8.
Curtain-rod bracket. L. G. Strnad. 1,454,605; May 8.
Cutter: *See*—
Asparagus cutter. Twine cutter.
Cutters, Mechanism for milling blanks for. F. Müller. 1,454,181; May 8.
Cylinder connection and the like. P. A. and E. Poppe. 1,454,187; May 8.
Damper controller, Fireplace-. E. F. Donley. 1,454,538; May 8.
Dental casting apparatus. E. J. Kochmit. 1,454,290; May 8.
Dental film mount. A. W. Buck. 1,454,152; May 8.
Dental floss dispenser. F. G. Dresser. 1,454,429; May 8.
Desk and seat, Combined. A. C. Sanford. 1,454,565; May 8.
Desk, Seat. C. Winkel. 1,454,143; May 8.
Desk stand. R. H. Manson. 1,454,247; May 8.
Detecting mechanism. M. F. Field. 1,454,111; May 8.
Diaphragm. H. C. Gains. 1,454,163; May 8.
Diaphragm, Pressure-responsive. F. W. Stalker and D. D. Rosenburgh. 1,454,459; May 8.
Dioxyperylene and perylene, Manufacturing. A. Zinke. 1,454,204; May 8.
Dioxyperylene, Manufacturing. A. Zinke. 1,454,205; May 8.
Dipping device. F. J. MacDonald. 1,454,244; May 8.

Direction indicator. R. F. A. von Bernewitz. 1,454,355; May 8
Dispensing machine, Coin-controlled. L. M. Snell. 1,454,272; May 8.
Display box. C. Bashwiner. 1,454,424; May 8.
Display device, Collapsible. W. M. Carter. 1,454,038; May 8.
Display device. B. D. Mason. 1,454,552; May 8.
Display device, Electrical. C. E. Smith. 1,454,566; May 8.
Display stand. H. J. Nutrisio. Des. 62,335–8; May 8.
Doll. W. S. Kaiser. Des. 62,330; May 8.
Doll. H. Silberfeld. Des. 62,345; May 8.
Doll, Dressed. E. A. Lochridge. Des. 62,332; May 8.
Door fastener, Grain-. O. A. Kneeland. 1,454,240; May 8.
Door, Pier. L. McHarg. 1,454,125–6; May 8.
Double-eyed guide. J. F. Madden. 1,454,061; May 8.
Doweling machine. J. Littlefield. 1,454,751; May 8.
Draft rigging. G. L. Harvey. 1,454,500; May 8.
Drainage fitting for water closets, etc., Adjustable. J. A. Bennett. Re15,595; May 8.
Drier: *See*—
Electric hair drier. Leather drier.
Drill and tool holder, Combination. T. W. Adair. 1,454,611; May 8.
Drinking fountain, Bubbling. J. E. Plew. 1,454,603; May 8.
Drying former and socket member therefor. C. H. Vail. 1,454,776; May 8.
Dust collecting and separating system and apparatus. E. H. Stroud. 1,454,492; May 8.
Dynamo-driving means. W. F. Bouché. 1,454,035; May 8.
Eccentric feeding mechanism. W. J. Guild. 1,454,472; May 8.
Egg-candling device. P. Mueller. 1,454,685; May 8.
Egg carton. A. Retzer. 1,454,252; May 8.
Egg melange, Machine for homogeneously mixing and straining. I. H. Hall. 1,454,378; May 8.
Electric cut-out and the like. C. D. Platt. 1,454,186; May 8.
Electric fixtures, etc., Leaf ornament for. J. W. Schulze. Des. 62,344; May 8.
Electric indicator for vibrations of the air. E. A. Sperry. 1,454,085; May 8.
Electric-lighting globe. A. A. Wohlauer. Des. 62,350; May 8.
Electric relays Bellows mechanism for. O. J. Marshick. 1,454,129; May 8.
Electric testing device. R. H. Carter. 1,454,623; May 8.
Electric traction, Contact rail for. H. Parodi. 1,454,296; May 8.
Electrical appliances, Terminal for. C. H. Werenskiold. 1,454,359; May 8.
Electrical cut-out. C. D. Platt. 1,454,185; May 8.
Electrical machine. L. A. Darling. 1,454,833; May 8.
Electrical outlets, Receptacle plate for. A. D. Sands. 1,454,081; May 8.
Electrical precipitation of suspended particles from gases, Apparatus for. C. H. Welskopf. 1,454,255; May 8.
Electrodes, Rotary means for cleaning. H. A. Wintermute. 1,454,256; May 8.
Electrolyte, Storage-battery. E. J. Reub. 1,454,078; May 8.
Elevator. N. P. Julien. 1,454,117; May 8.
Elevator. A. H. Thomas. 1,454,193–4; May 8.
Elevator brake. A. G. Janes. 1,454,745; May 8.
Emulsions, Prevention of the formation of. E. E. Ayres, jr. 1,454,617; May 8.
Emulsions, Resolving. E. E. Ayres, jr. 1,454,616; May 8.
Engine: *See*—
Internal-combustion engine.
Engines, Ignition device for internal-combustion. E. N. Lightfoot. 1,454,549; May 8.
Engines, Intake manifold for internal-combustion. G. M. Ball. 1,454,596; May 8.
Engines, Rotary valve for internal-combustion. M. O. Anthony. 1,454,423; May 8.
Engines, Temperature-indicating system and apparatus for internal-combustion. H. H. Boyce. 1,454,149; May 8.
Envelope. W. L. Dodge. 1,454,043; May 8.
Envelope and the like. A. J. G. Westbury and H. Hiscock. 1,454,361; May 8.
Envelope-closing means. F. Clarke. 1,454,701; May 8.
Esterification. A. A. Backhaus. 1,454,463; May 8.
Esters, Producing high-grade. A. A. Backhaus. 1,454,462; May 8.
Excavating machine. F. J. Dussault. 1,454,711; May 8.
Excavating machine. R. E. Wilt. 1,454,781; May 8.
Excavator front-end construction. S. R. W. M. Bager, W. Lehman, and F. C. Ruhlolf. 1,454,032; May 8.
Eye protector, R. Malcom. 1,454,327; May 8.
Eye-testing instrument. E. D. Tillyer. 1,454,774; May 8.
Fare box. C. H. Woods. 1,454,096; May 8.
Fastener. F. S. Carr. 1,454,832; May 8.
Fastener. J. F. Powell. 1,454,251; May 8.
Faucet, Self-closing. T. H. Schutt. 1,454,340; May 8.
Feeder, Automatic. N. F. Thompson. 1,454,352; May 8.
Feeding mechanism. J. Conte. 1,454,507; May 8.
Fencepost, Metallic. C. B. Murton. 1,454,649; May 8.
Fibrous material, Mechanism for drawing or drafting. A. C. Butler. 1,454,669; May 8.
File, Pattern. F. Obrikat, jr. 1,454,069; May 8.
Filing-case drawer suspension. A. N. Thomas. 1,454,494; May 8.
Filing device. T. J. Clarke. 1,454,702; May 8.
Filing devices, Index for. C. U. Finocchiaro. 1,454,714; May 8.
Filing machine. F. A. Reinhard. 1,454,690; May 8.
Filling device. C. N. Brackett. 1,454,208; May 8.
Film-cleaning apparatus. M. Cohen. 1,454,703; May 8.
Film clip. A. K. Chapman and G. A. Riggs. 1,454,213; May 8.
Film developer. F. Dias. 1,454,215; May 8.
Film spool. C. W. MacMillan. 1,454,480; May 8.
Filter bed for sewage disposal. W. T. Burtis. 1,454,723; May 8.
Filter, Oil. C. A. Hamilton and B. F. Noyes. 1,454,113; May 8.
Finger ring. V. Sorrentino. Des. 62,347; May 8.
Finishing machine. L. A. Babcock. 1,454,031; May 8.
Firearm, Automatic. A. L. Chevallier. 1,454,039; May 8.
Fire extinguisher. W. S. Tiffany. 1,454,825; May 8.
Fireplace guard screen. L. F. Eisele. 1,454,269; May 8.
Fishhook. F. A. Quintal. 1,454,689; May 8.
Fish lure. W. H. Readie. 1,454,820; May 8.
Flash light. G. I. Johnson. Des. 62,329; May 8.
Flexible coupling. G. H. Thomas. 1,454,087; May 8.
Flooring, Parquet. W. A. Parsons. 1,454,250; May 8.
Flour-packing machines. Automatic controlling mechanism for. H. O. Harding. 1,454,278; May 8.
Flotation machine. C. E. Rork and A. Sandberg. 1,454,656; May 8.
Fluid meter. L. E. Van Hise. 1,454,801; May 8.
Fluid-pressure brake. G. S. Lane. 1,454,547; May 8.
Fly swatter. L. B. McDaniel. 1,454,062; May 8.
Folding table. J. Higham. 1,454,386; May 8.
Form clamp. G. B. Bosco. 1,454,502; May 8.
Fountain, Ornamental. F. W. A. Brockmiller. 1,454,150; May 8.
Frames, Curtain-supporting attachment for window. J. Kulczycki. 1,454,679; May 8.
Fruit, Machine for removing the cores and stones from. F. Robbins. 1,454,411; May 8.
Fuel burner, Powdered-. H. Bleibtreu. 1,454,664; May 8.
Fulcrum, Forged-steel. W. C. Hedgcock. 1,454,168; May 8.
Fumigating, Method of and apparatus for. K. F. Cooper. 1,454,154; May 8.
Furnace: *See*—
Roasting furnace. Underfeed furnace.
Furnace retort. C. E. Richardson. 1,454,338; May 8.
Furniture, Combination. E. M. Crooks. 1,454,467; May 8.
Fuse, Cartridge. H. T. Bussmann. 1,454,266; May 8.
Game apparatus. R. J. Martin. 1,454,683; May 8.
Gaming appliance. S. Keiner. 1,454,173; May 8.
Garage, Automobile. R. Swinnerton. 1,454,348; May 8.
Garbage and other refuse, Utilizing domestic and industrial. G. Schlösser. 1,454,082; May 8.
Garment. E. E. Falvey. 1,454,541; May 8.
Garment. A. E. Lambert. 1,454,477; May 8.
Garment hanger. N. C. Parker. 1,454,334; May 8.
Garment supporter. J. C. Mabry. 1,454,550; May 8.
Garter. S. Lacavalerie. 1,454,476; May 8.
Garter. A. M. and F. M. Malouf. 1,454,754; May 8.
Gas appliances, Safety control for automatic. G. F. Schwartz. 1,454,341; May 8.
Gas-cock lock. W. H. Franklin, jr. 1,454,433; May 8.
Gas-pressure regulator. W. P. Capps. 1,454,211; May 8.
Gases, Treating. A. Nagelvoort. 1,454,591; May 8.
Gear-shift lever and dust cap. C. L. Johnson. 1,454,600; May 8.
Gearing, Differential. M. J. L. Towler. 1,454,578; May 8.
Gearing, Frictional. D. Applegate. 1,454,615; May 8.
Gear wheel and manufacturing the same. J. Eckert. 1,454,508; May 8.
Glare shield. W. E. Loranger. 1,454,390; May 8.
Glass, Antæus. J. C. Wells and E. D. Tillyer. 1,454,200; May 8.
Gases and hydrocarbon oils, Method and apparatus for producing a chemical union between hydrocarbon. H. B. Snyder. 1,454,567; May 8.
Glazed structure. R. N. Schalkenbach. 1,454,079; May 8.
Glove box. G. O. Slingerland. 1,454,457; May 8.
Glycol, Making. W. H. Rodebush. 1,454,604; May 8.
Golf club. H. D. Challis and S. J. Williamson. 1,454,267; May 8.
Golf-stroke register. B. M. Beskow. 1,454,263; May 8.
Grader attachment. A. Cimfl. 1,454,725; May 8.
Grapefruit-seeding device. C. H. Boyle. 1,454,311; May 8.
Grass-digging implement. W. L. Foss. 1,454,580; May 8.
Grate support, Mechanical stoking. V. MacKay. 1,454,324; May 8.
Grater. T. Fitz Patrick. 1,454,579; May 8.
Greaseproofing composition and fibrous material treated thereby. W. L. Wright. 1,454,421; May 8.
Grip, Burglarpdoof. J. R. Landis. 1,454,546; May 8
Grip choke control, Friction-. A. W. Kaufman. 1,454,238; May 8.
Grip cover. J. A. Hagerstrom. 1,454,237; May 8.
Gun, Grease. C. E. Bown. 1,454,574; May 8.

Hairpin container. S. H. Goldberg. 1,454,636; May 8.
Hair curler. E. E. Baldwin. 1,454,718; May 8.
Hair-cutting device. R. A. Smith. 1,454,458; May 8.
Hair drier, Electric. R. H. Brown. 1,454,151; May 8.
Hairdressing device. L. Hicks. 1,454,641; May 8.
Hair waver. H. G. and G. B. Hoffmann. 1,454,281; May 8.
Ham boiler. J. Reinartz. 1,454,337; May 8.
Hammer, Portable power. H. A. Fisher. 1,454,633; May 8.
Handlamp. A. A. Arnold. 1,454,530; May 8.
Handling apparatus and conveyer, Material. J. A. Stobie. 1,454,345; May 8.
Hanger: *See*—
Beam hanger.
Cable hanger.
Garment hanger.
Harvester, Grain. C. Owens. 1,454,071; May 8.
Harvesters, Bundle-carrying attachment for grain. P. Gerlach. 1,454,471; May 8.
Header. I. J. Marriage. 1,454,551; May 8.
Headlight. J. M. Dunlea. 1,454,671; May 8.
Headlight, Dirigible. I. Arthurs. 1,454,260; May 8.
Headlight for automobiles, Dirigible. B. Waite. 1,454,608; May 8.
Headlight mechanism. J. W. Reaser, S. M. Hull, and F. H. Osborne. 1,454,788; May 8.
Heater: *See*—
Tire heater.
Heater. G. Nietz. 1,454,556; May 8.
Heating systems, Thermostatic electric control for. E. E. Gold. 1,454,635; May 8.
Heel pad for a boot or shoe. W. W. Phillips. Des. 62,341–2; May 8.
Hob. C. G. Olson. 1,454,135; May 8.
Hoists, Safety-limit switch for electric. M. A. Beck. 1,454,827; May 8.
Hood support. A. E. Ashley. 1,454,595; May 8.
Hook: *See*—
Automobile hook.
Hose mender, band, and coupling. F. H. Paradice. 1,454,073; May 8.
House, Apartment. D. Kollmer. 1,454,241; May 8.
House construction. E. Feuillette. 1,454,110; May 8.
House construction, Electric-switch-. B. G. Jamieson. 1,454,744; May 8.
Humidor, Cigarette. F. A. Sileo. Des. 62,346; May 8.
Hydrocarbons, Means for cracking. H. A. and S. A. Wier. 1,454,142; May 8.
Hydraulic brake. W. W. MacDonald. 1,454,397; May 8.
Ice-cream freezers and the like, Driving attachment for W. Wirtz. 1,454,203; May 8.
Incense burner. S. Kodama. 62,331; May 8.
Incubator. J. S. Mackenzie. 1,454,325; May 8.
Index device. J. H. Rand. 1,454,406; May 8.
Index or reference device, Visible. J. H. Rand, jr. 1,454,653; May 8.
Indicator: *See*—
Direction indicator.
Potential indicator.
Route indicator.
Ingot molds, Feeder for. B. H. Howard and E. J. Turner. 1,454,740; May 8.
Ingot molds, Reversible feeder for. B. H. Howard and E. J. Turner. 1,454,742; May 8.
Insect trap. J. C. Brown. 1,454,667; May 8.
Insulation-smoothing device. J. A. Heany. 1,454,166; May 8.
Insulator. W. T. Goddard. 1,454,634; May 8.
Internal-combustion engine. A. L. Powell. 1,454,075; May 8.
Irrigating apparatus. J. A. Norton. 1,454,332; May 8.
Jack: *See*—
Vehicle jack.
Jack. F. R. Sunderman. 1,454,524; May 8.
Jar-top-fastening device. J. M. Cruse. 1,454,728; May 8.
Jarring machine. A. B. and R. B. Schuyler. 1,454,490; May 8.
Joint: *See*—
Locking joint.
Wire joint.
Kettle, Electric. C. de C. Matulich. 1,454,448; May 8.
Kilns, System of. L. Weeks. 1,454,358; May 8.
Knife lock. J. Bobek. 1,454,665; May 8.
Laboratories, Steam bowl for chemical. J. Menzies. 1,454,648; May 8.
Ladder platform, Adjustable. G. Le Flohic. 1,454,750; May 8.
Lamp, Boudoir. F. W. Usher. 1,454,799; May 8.
Lamp holder, Miner's carbide-. E. S. Barnstable. 1,454,034; May 8.
Last re-forming. J. and C. H. Fitzpatrick. 1,454,160; May 8.
Latch, Elevator-door. W. A. Williams. 1,454,095; May 8.
Lathes or similar machines, Attachment for. R. K. Luse. 1,454,590; May 8.
Leather drier. W. M. Schwarts and E. B. Ayres. 1,454,694; May 8.
Leer feeder. B. H. Purcell. 1,454,520; May 8.
Lens-grinding machine. H. W. Hill. 1,454,221; May 8.
Lenses for eyeglasses and the like, Holding, adjusting, and aligning apparatus for. K. W. Pollard. 1,454,688; May 8.
Lift, Inspection. C. L. Huston. 1,454,677; May 8.
Light: *See*—
Tail light.
Vehicle light.
Light support. T. G. Berman. 1,454,147; May 8.
Lighting fixture. G. E. Villaret. Des. 62,348; May 8.
Lighting-fixture brace. F. S. Crowell. Des. 62,310. May 8.
Lighting fixtures, Candle plate for. G. E. McFadden. Des. 62,334; May 8.
Lighting fixtures, Socket cover for. G. E. McFadden. Des. 62,333; May 8.
Lightning arrester. L. M. Klauber. 1,454,289; May 8.
Liquid dispenser. A. E. Holmes. 1,454,284; May 8.
Liquid, Heat treatment of. W. Mauss. 1,454,553; May 8.
Liquid measuring and dispensing device. A. B. Walters. 1,454,572; May 8.
Liquid to paper, Applying coloring. L. P. Winchenbaugh and L. Gentile. 1,454,363–4; May 8.
Liquid to wires, threads, and the like, Method and means for applying a. F. K. Schmidt. 1,454,224; May 8.
Liquids and automatically grading the same according to their density, Apparatus for indicating the density of. J. L. Mennell. 1,454,756; May 8.
Liquids, Elevating. J. C. Grant. 1,454,377; May 8.
Liquids, Instrument for measuring the height of. W. C. and W. O. Barnes. 1,454,531; May 8.
Load-counterbalancing mechanism. E. F. Ulrich. 1,454,089; May 8.
Lock: *See*—
Automobile lock.
Gas-cock lock.
Knife lock.
Nut lock.
Prison lock.
Steering-wheel lock.
Trunk lock.
Lock. R. R. Raymond. 1,454,768; May 8.
Lock. J. O. Winks and E. O. Bennett. 1,454,202; May 8.
Locking joint. L. W. Murphy. 1,454,758; May 8.
Locomotive. M. J. Furlong. 1,454,161; May 8.
Locomotive. W. W. Sloane. 1,454,138–9; May 8.
Looms, Feeler mechanism for. I. Snow. 1,454,343; May 8.
Looms, Positive let-off motion for. J. A. Porter. 1,454,767; May 8.
Looms, Selvage guard for. C. M. H. Leighton. 1,454,787; May 8.
Lubricating device, Spring-. J. M. Jackson. 1,454,116; May 8.
Machine tools, Feeding and chucking mechanism for. E. J. Hornberger. 1,454,643; May 8.
Magnesium nitrate, Producing. V. M. Goldschmidt. 1,454,583; May 8.
Magneto drives, Adjustable coupling for. G. D. Angle. 1,454,594; May 8.
Make and quick-break switch, Double-throw quick-. H. G. Pape. 1,454,072; May 8.
Malt and sprouts, Making edible. K. Abe. 1,454,422; May 8.
Match box. W. Zebra. 1,454,529; May 8.
Match scratcher. P. McCuaig. 1,454,446; May 8.
Measuring and cost computing machine, Fabric. G. C. Hosch. 1,454,285; May 8.
Measuring and feeding device. H. J. Haon. 1,454,439; May 8.
Measuring device. J. L. Patterson and L. R. Bivins. 1,454,765; May 8.
Measuring device. R. H. Viager. 1,454,354; May 8.
Measuring instrument. C. H. Merritt. 1,454,130; May 8.
Measuring instrument. F. F. Schlattau. 1,454,693; May 8.
Measuring machines, Adding machine particularly for leather-. H. Thun. 1,454,382; May 8.
Metal, Container and mold for molten. H. A. Myers and A. D. Straw. 1,454,067; May 8.
Metal-working machines, Clamping mechanism for. W. T. Sears. 1,454,080; May 8.
Meter: *See*—
Fluid meter.
Meter box. S. I. Flournoy. 1,454,674; May 8.
Mica boards, Machine for and method of making. L. T. Frederick. 1,454,274; May 8.
Mill: *See*—
Boring mill.
Tube mill.
Mill. A. Sundh and W. Westerman. 1,454,493; May 8.
Mills, Ball-placing device for tube. J. H. Matheson. 1,454,684; May 8.
Minerals, Concentration of. W. O. Borcherdt. 1,454,838; May 8.
Mixer: *See*—
Concrete mixer.
Mirror, Pocket. W. Krueger. 1,454,678; May 8.
Mixer and the like, Motor-driven. R. W. Poor. 1,454,223; May 8.
Molding form. H. Rustad. 1,454,189; May 8.
Molds and forming the same, Protective material for. H. A. Myers and A. D. Straw. 1,454,068; May 8.
Money-paying device. N. White. 1,454,303; May 8.
Monorail structure. T. H. Wright. 1,454,804; May 8.
Mop. J. L. Joyce. 1,454,544; May 8.
Motor: *See*—
Phonograph motor.
Water motor.
Wave motor.
Motor controller, Electric-. H. N. Wade. 1,454,527; May 8.
Mowers, Cutter and guard for. W. N. Coleman, jr. 1,454,704; May 8.
Mud guard. T. Hilton. 1,454,738; May 8.
Mule bank. N. S. Eberhardt and A. E. Hackett. 1,454,530; May 8.

Music-turning device. L. Pinell and C. C. Loop. 1,454,766; May 8.
Musical instruments, Pneumatic action for. W. E. Austin. 1,454,259; May 8.
Nail puller. G. Kawamura. 1,454,239; May 8.
Necktie and making same. A. Williams. 1,454,304; May 8.
Nitrocellulose powder containing nitroguanidine. J. M. Skilling. 1,454,414; May 8.
Nozzle, Spray. F. W. Henrikson. 1,454,280; May 8.
Nut lock. J. D. Ellis. 1,454,712; May 8.
Nuts, Machine for marking. J. C. White. 1,454,661; May 8.
Oil, Apparatus for continuous extraction, particularly of. M. Wilbuschewitsch. 1,454,419; May 8.
Oil can, Easy-pour. F. D. Gatchell. 1,454,436; May 8.
Oil cooler. R. C. Jones. 1,454,053; May 8.
Oil cup, Electrically-operated. R. R. McClure. 1,454,123; May 8.
Oil, Extracting. F. P. Croft. 1,454,705; May 8.
Oil, gasoline, or gas as a fuel, Motor using. E. L. Wrentmore. 1,454,499; May 8.
Oil press, Hydraulic. W. Bickel. 1,454,721; May 8.
Oil tool. J. B. Moore. 1,454,452; May 8.
Oils, Process of and apparatus for treating hydrocarbon. J. P. Persch. 1,454,485; May 8.
Oils, Purifying mineral. E. E. Arnold. 1,454,593; May 8.
Oiling device. R. H. Stull. 1,454,606; May 8.
Optical pliers. J. E. Hughes. 1,454,475; May 8.
Ozone-generating apparatus. R. Goedicke. 1,454,219; May 8.
Package, Wound. S. A. Barbour. 1,454,573; May 8.
Packing for pumps. W. A. O'Bannon. 1,454,400; May 8.
Paper and making same, Safety. B. W. Smith. 1,454,837; May 8.
Paper-making machine. J. D. Tompkins. 1,454,606; May 8.
Paper, Manufacturing ornamental. M. A. T. Gillbee. 1,454,676; May 8.
Paper-treating machine. L. Gentile. 1,454,376; May 8.
Paper-treating machine. L. P. Winchenbaugh and L. Gentile. 1,454,362; May 8.
Pawl-and-ratchet power appliance. P. MacKenzie. 1,454,398; May 8.
Pencil, Lead. A. Pollak. 1,454,136; May 8.
Pendulum mechanism. W. Emery. 1,454,047; May 8.
Pharmaceutical product. R. Berendes and F. Lange. 1,454,372; May 8.
Phonograph. G. B. Burch. 1,454,504; May 8.
Phonograph and moving-picture cabinet, Combined. J. A. Perrault and W. A. Hitchcock. Des. 62,340; May 8.
Phonograph motor. E. J. Tomlinson. 1,454,195; May 8.
Phonograph motors, Gear train for. G. T. Cherington. 1,454,625; May 8.
Phonograph, Portable. J. L. Lind. 1,454,389; May 8.
Phonographs, Tone regulator for. H. K. Hess. 1,454,441; May 8.
Phonographic recording and reproducing system. H. C. Egerton. 1,454,157; May 8.
Photographic cartridge. J. G. Jones. 1,454,812–18; May 8.
Photographic emulsion, Self-toning. E. R. Bullock. 1,454,209; May 8.
Photographic film. W. L. Dodge. 1,454,044; May 8.
Photographic optical system. W. F. Folmer. 1,454,218; May 8.
Picture reflector, Orchestra leader's. C. A. Grissinger. 1,454,733; May 8.
Pipe-pulling apparatus. H. C. Thrift. 1,454,088; May 8.
Piston. A. L. Nelson. 1,454,761–2; May 8.
Piston-dressing machine. E. A. Hammett. 1,454,834; May 8.
Piston rings, Process and apparatus for forming cup. G. Christenson. 1,454,506; May 8.
Piston rings, Tool for compressing. R. R. Teetor. 1,454,350; May 8.
Planer. L. M. Pyle. 1,454,076; May 8.
Platform. E. Tomlinson and R. T. Gifford. 1,454,416; May 8.
Pneumatic-dispatch systems, Carrier-spacing device for. W. J. Hepperle. 1,454,169; May 8.
Pocket, Safety. J. Stone. 1,454,771; May 8.
Pocketbook. R. Malzahn. 1,454,246; May 8.
Poke, Animal. A. Erickson. 1,454,317; May 8.
Potato digger. J. J. and J. R. Kovar. 1,454,175; May 8.
Potential indicator. O. E. Huebner. 1,454,474; May 8.
Powder box. J. D. McFarland. 1,454,242; May 8.
Power press. S. T. Walkup. 1,454,497; May 8.
Preheating device. C. O. Erickson. 1,454,318; May 8.
Press: *See*—
Oil press.
Power press.
Press. H. C. Lewis. 1,454,478; May 8.
Press. K. P. Malon. 1,454,128; May 8.
Pressure-controlling device. H. F. Richter. 1,454,409; May 8.
Printing rolls, Making pattern-. J. W. McIndoe. 1,454,243; May 8.
Prison lock. V. Allen. 1,454,145; May 8.
Propeller. E. L. Walker. 1,454,356; May 8.
Propeller, Screw. A. Grilli. 1,454,542; May 8.
Puller: *See*—
Nail puller.
Pulley and the like of sheet-metal construction, Divided driving. E. Garside. 1,454,435; May 8.
Pulley, Self-aligning. W. C. Smith. 1,454,657; May 8.
Puzzle. E. J. Miller. 1,454,131; May 8.
Rack: *See*—
Charging rack.
Radiator. F. B. Cushman. 1,454,315; May 8.
Radiator. J. M. Fedders. 1,454,432; May 8.
Radiator. A. B. Modine. 1,454,483; May 8.
Radiator and producing same. I. S. Chapman and C. E. Mort. 1,454,425; May 8.
Radiator cap. W. L. Davis. Des. 62,320; May 8.
Radiator, Liquid-cooling. E. T. Curran. 1,454,107; May 8.
Radio frequency transmission system. H. Pratt. 1,454,652; May 8.
Radiotelegraphy. A. L. Anderson. 1,454,307; May 8.
Radiotelegraphy. H. F. Elliott. 1,454,630; May 8.
Radiotelegraphy signaling system. C. C. Chapman. 1,454,624; May 8.
Radiotelegraphy signaling system. H. F. Elliott. 1,454,629; May 8.
Rail anchor. L. J. Berkeley. 1,454,309; May 8.
Rail anchor. C. F. Yardley. 1,454,366; May 8.
Rail anchor. C. F. Yardley. 1,454,368; May 8.
Rail-fastening plate. J. Wesolik. 1,454,090; May 8.
Rails thereon, Metal tie and fastener to secure. J. T. Clark. 1,454,268; May 8.
Railway brake beams, Reversible strut for. I. Moeller. 1,454,063; May 8.
Railway construction. C. Belanger and J. Caron. 1,454,101; May 8.
Railway crossings, Highway signal for. J. M. McGhee. 1,454,753; May 8.
Rail support. Railway-. A. R. Fugina, J. E. Clough, and W. H. Stilwell. 1,454,276; May 8.
Ram control, Hydraulic-. W. W. MacDonald. 1,454,396; May 8.
Razor-blade holder. W. Klamroth. 1,454,055; May 8.
Razor blades, Device for use with safety. E. N. Kennedy. 1,454,443; May 8.
Razor blades, Holder for safety. F. Wressell. 1,454,461; May 8.
Record device. J. H. Rand. 1,454,405; May 8.
Rectifier or converter. E. A. Zadig. 1,454,144; May 8.
Reflector. A. and C. A. Mattisse. 1,454,755; May 8.
Register: *See*—
Golf-stroke register.
Regulator: *See*—
Boiler-feed-water regulator.
Gas-pressure regulator.
Repair patches, Mold for forming. J. Robertson, jr. 1,454,655; May 8.
Resilient wheel. W. H. Smith. 1,454,342; May 8.
Revolver, Folding. H. Rosier. 1,454,454; May 8.
Rheostat. R. B. Austrian. 1,454,030; May 8.
Rim-handling device. D. A. Davies. 1,454,027; May 8.
Rim, Spring. T. H. Bell and J. G. Schoenleber. 1,454,829; May 8.
Riveter. C. J. Walker. 1,454,777; May 8.
Road-ditching machine. E. Prendergast. 1,454,336; May 8.
Roadster sections, Hinge joint for convertible. R. V. Gilmore. 1,454,784; May 8.
Roasting furnace. J. Thomas. 1,454,798; May 8.
Roller: *See*—
Corrugated roller.
Rolls, Machine for the manufacture of bread. H. Fétaz. 1,454,672; May 8.
Roof, Sheet-metal. R. A. Workman. 1,454,097; May 8.
Roofing material, Method of and apparatus for making flexible. H. MacInnes. 1,454,323; May 8.
Roofing, Self-locking wireless molded. F. Openshaw. 1,454,070; May 8.
Route indicator. E. Shrubsole. 1,454,793; May 8.
Runner. C. A. Howell. 1,454,514; May 8.
Safe and vault door. A. L. West. 1,454,460; May 8.
Sand-feeding mechanism. H. W. B. Graham. 1,454,438; May 8.
Saws and the like, Combined gauge and set for crosscut. L. O. Vadnais. 1,454,227; May 8.
Scrapers or graders, Attachment for road. P. C. Merillat. 1,454,757; May 8.
Screen: *See*—
Fireplace guard screen.
Screw driver, Flexible. M. R. Rentchler. 1,454,789; May 8.
Scrubbing stool. W. F. O'Neill. 1,454,401; May 8.
Scythe, Attachment for. D. M. Friedt. 1,454,732; May 8.
Seal, Bottle or jar. W. Chaffin. 1,454,699; May 8.
Sealing-wax stick. A. Nadler and J. R. Kinghorn. 1,454,759; May 8.
Seat: *See*—
Automobile seat.
Seat-cover attachment. J. P. Eyster. 1,454,577; May 8.
Seat indicator for auditoriums and the like, Illuminated. H. A. Page. Des. 62,339; May 8.
Separator. T. J. Sturtevant. 1,454,140; May 8.
Separator plates, Apparatus for and method of cutting. M. S. Sargent. 1,454,455; May 8.
Sewing machines, Stitch-forming mechanism for. E. B. Allen. 1,454,500; May 8.
Shade roller and curtain bracket, Combined. J. B. Swan. 1,454,226; May 8.
Shade support, Adjustable. A. D. Brixey. 1,454,830; May 8.
Shale planer. J. M. Powell. 1,454,519; May 8.

Sharpening of tools, Compound for the. A. N. J. Zirsen. 1,454,369; May 9.
Shipping container for eggs and other fragile articles. L. Oxhandler. 1,454,601; May 8.
Shock absorber. B. F. Burns. 1,454,535; May 8.
Shock absorber. Z. P. Loyd. 1,454,391–2; May 8.
Shock absorber. Z. P. Loyd and H. W. Larsson. 1,454,393; May 8.
Shock absorber. R. S. M. Mitchell. 1,454,132; May 8.
Shocking machine, Magneto-electric. W. P. Wiemann. 1,454,528; May 8.
Shoe filler. R. A. Roblee. 1,454,412; May 8.
Shoe heel. F. G. Delbon. Des. 62,321; May 8.
Sign and the like, Advertising. S. F. J. Riddell and E. Forster. 1,454,691; May 8.
Sign-displaying device. W. A. Garritt and J. H. Engebrigtson. 1,454,582; May 8.
Sign device, Changeable. H. W. Cairns. 1,454,622; May 8.
Signal, Transparent. F. C. Roberts. 1,454,563; May 8.
Signal: *See*—
Automobile alarm signal. Vehicle signal.
Signals, System of electrically transmitting. H. E. Warren. 1,454,092; May 8.
Signaling, Method of and means for secret. W. E. Beatty. 1,454,532; May 8.
Sinks and the like, Strainer for. H. R. Stoll. 1,454,346; May 8.
Sketch box, Artists'. G. F. Douglas. 1,454,700; May 8.
Soap into bars, Apparatus for cutting. J. A. Schwantes. 1,454,769; May 8.
Soil, Machine for pulverizing and cleaning. C. D. Lennon. 1,454,548; May 8.
Sound amplifiers, Composition for and method of manufacturing. P. Charuest and H. H. Duchesne. 1,454,700; May 8.
Sound-reproducing machine. A. G. Nyquist. 1,454,134; May 8.
Sound-reproducing machines, Sound box for. W. Spofforth. 1,454,297; May 8.
Spar, Compound metal. A. P. Thurston and H. N. Wylie. 1,454,659; May 8.
Spark plug. F. A. Howard. 1,454,442; May 8.
Spark plug. W. E. Lee. 1,454,516; May 8.
Spark plug. W. McElroy. 1,454,646; May 8.
Spectacles, eyeglasses, and the like, Holder for. L. Farber. Des. 62,323; May 8.
Speedometer, Electric. C. F. Kettering. 1,454,644; May 8.
Spindle bolt removing device. C. Staugaard. 1,454,086; May 8.
Spinning frames, Cleaner for the middle steel rollers of. D. L. Dover. 1,454,316; May 8.
Spool. H. O. Taft. 1,454,706; May 8.
Spoon or similar article. H. Hillbom. Des. 62,328; May 8.
Spotlight. J. R. Shirreffs. 1,454,695; May 8.
Spotlight, Automatically-controlled. L. A. Bean. 1,454,228; May 8.
Spraying device. A. A. Stubfors. 1,454,824; May 8.
Sprinklers, Making automatic. W. Grimshaw. 1,454,235; May 8.
Sprocket wheel. C. R. Carleton. 1,454,536; May 8.
Stand: *See*—
Desk stand.
Statuette, incense burner, or similar article. E. M. Viquesney. Des. 62,340; May 8.
Steel in hardening, Fused salt bath for heating. R. S. Dean. 1,454,214; May 8.
Steering-wheel lock. F. E. Bauermeister. 1,454,663; May 8.
Stone-gathering machine. J. Bugla. 1,454,668; May 8.
Stone spreader. F. E. Arndt. 1,454,308; May 8.
Storage battery. W. H. Thorpe. 1,454,571; May 8.
Storm shield. C. F. Green. 1,454,585; May 8.
Stove and grill, Combined. J. Higham. 1,454,385; May 8.
Straw salting and fertilizing. W. G. Paton. 1,454,558; May 8.
Stretching device. K. Stahl. 1,454,298; May 8.
Strip-forming apparatus, Marking attachment for. S. C. Lowe. 1,454,058; May 8.
Stroboscopic apparatus. A. J. H. Elverson. 1,454,713; May 8.
Sugar, Preparing. J. Carr and A. B. Bradley. 1,454,153; May 8.
Sulphur, Apparatus for manufacturing flowers of. E. Knapp, J. K. Dickerson, and F. L. Begtrup. 1,454,747; May 8.
Sulphur, Solidifying molten. R. H. Stewart. 1,454,344; May 8.
Sundae cups from cup-stacking machines into cartons, Holder and method of transferring stacked. C. Barbieri. 1,454,261; May 8.
Supporting bracket. P. L. Wilbur. 1,454,662; May 8.
Surfacing machine. W. H. Francis. 1,454,731; May 8.
Switch box. L. Boutin. 1,454,722; May 8.
Switch device. T. H. Wright. 1,454,806; May 8.
Table: *See*—
Folding table.
Tag holder, License. R. Rose. 1,454,413; May 8.
Tail light. G. S. Ellithorpe. 1,454,631; May 8.
Talking-machine-needle holder. H. F. Schelling. 1,454,489; May 8.
Tanks, Fire-extinguishing apparatus for oil. W. D. Witter. 1,454,839; May 8.
Telephone attachment. G. W. Sumner. 1,454,773; May 8.
Telephone receivers, Support for. M. A. Boweu. 1,454,533; May 8.
Textile fabric. J. H. Bunting. Des. 62,316; May 8.
Textile fabric. G. M. Fauser. Des. 62,324–7; May 8.
Theft alarm. J. H. Miner. 1,454,183; May 8.
Thread-chasing mechanism. A. R. Mitchell. 1,454,554; May 8.
Thread-tension device. H. H. Gove. 1,454,637; May 8.
Tire construction, Resilient. S. C. B. Brown. 1,454,036; May 8.
Tire for wheels, Solid. V. M. Cabretoea. 1,454,103; May 8.
Tire heater. W. A. and T. J. Maas. 1,454,295; May 8.
Tire tool. T. B. Jenkins. 1,454,320; May 8.
Tire, Pneumatic. F. S. Dickinson and J. Springer. 1,454,469; May 8.
Tire rim. J. H. Taylor. 1,454,797; May 8.
Tires, Antiskid device for. I. F. Kepler. 1,454,054; May 8.
Tires, Nonslip guard for automobile. G. A. Doty. 1,454,109; May 8.
Toaster, Electric. H. Kruesheld. 1,454,056; May 8.
Tone-regulating device. R. E. Crissey. 1,454,727; May 8.
Tongs. A. M. Hamer. 1,454,319; May 8.
Tongs. L. E. Wegner. 1,454,778; May 8.
Tool. E. A. Wimmer. 1,454,782; May 8.
Tool and making the same. J. B. Moore. 1,454,451; May 8.
Tooth, Artificial. L. M. Farnum. 1,454,632; May 8.
Towline hitch. J. C. Geils. 1,454,437; May 8.
Toy. D. S. Clarke. 1,454,313; May 8.
Toy. J. G. Reed. 1,454,077; May 8.
Toy. E. W. Weston. 1,454,094; May 8.
Toy, Telephone. J. R. Kidney. 1,454,287; May 8.
Track-laying machine. J. R. McGiffert. 1,454,176; May 8.
Track terminals, Machine for forming. T. O. Culpepper. 1,454,811; May 8.
Tracks, Switch for overhead. R. F. Rasmussen. 1,454,188; May 8.
Tracking device. R. Bukow. 1,454,621; May 8.
Tractor, Agricultural. H. I. Washburn. 1,454,093; May 8.
Tractor and truck, Combined. J. J. Moore. 1,454,178; May 8.
Tractor, Power. A. G. Byerley. 1,454,698; May 8.
Traffic-signal-operating mechanism. G. T. Wroughton. 1,454,808; May 8.
Train-control device, Automatic. T. H. Thomas. 1,454,570; May 8.
Train-control system, Automatic. W. K. Howe. 1,454,513; May 8.
Train-control systems, Brake-controlling mechanism for automatic. M. F. Geer. 1,454,231; May 8.
Train-pipe connector, Automatic. J. V. Robinson. Re-15,596; May 8.
Transformer. L. T. Grady. 1,454,638; May 8.
Transmission channels, Means for ringing over multiplex. L. Espenschied. 1,454,158–9; May 8.
Transmission systems, Facsimile. H. G. Bartholomew. 1,454,719; May 8.
Transparency and making same. W. B. Wescott. 1,454,418; May 8.
Trap: *See*—
Insect trap.
Traveling-bag fastener. G. Panyity. 1,454,651; May 8.
Treatment, Device for bowel. A. E. West. 1,454,302; May 8.
Tree-felling machine. J. E. Hamlin. 1,454,735; May 8.
Trolley guard. M. Firl. 1,454,673; May 8.
Trolley-pole safety device. G. W. Dague. 1,454,706; May 8.
Truck. C. M. Drinkwater. 1,454,710; May 8.
Truck bolster. E. C. Washburn. 1,454,357; May 8.
Truck, Elevating. F. L. Eidmann. 1,454,431; May 8.
Truck for monorails, Swivel. T. H. Wright. 1,454,807; May 8.
Trunk lock. F. W. Meyer. 1,454,329; May 8.
Truss. G. A. Berry. 1,454,720; May 8.
Tube and making the same, Pneumatic. W. P. Porter. 1,454,074; May 8.
Tube mill. E. C. Soper. 1,454,491; May 8.
Tubbing for shafts. F. Reichard. 1,454,408; May 8.
Turbine locomotive. N. Johnson. 1,454,286; May 8.
Turntable. T. H. Wright. 1,454,805; May 8.
Turntable, Portable. F. E. Miner. 1,454,482; May 8.
Twine cutter. E. R. Jones. 1,454,543; May 8.
Typewriter attachment. H. B. Kaneen. 1,454,588; May 8.
Typewriter, Manifolding. J. Q. Sherman. 1,454,822; May 8.
Typewriters, Type bar for stenographic. E. G. Robeson. 1,454,692; May 8.
Typewriting machine. J. F. Allard. 1,454,613; May 8.
Typewriting machine. C. B. Corell. 1,454,040; May 8.
Umbrella. H. F. Poell. 1,454,404; May 8.
Underfeed furnace. M. J. Wightman. 1,454,697; May 8.
Undergarment, Woman's fitted. D. H. Warner. 1,454,417; May 8.
Underwaist. O. Bastiansen. 1,454,262; May 8.
Upholstery material. C. E. Genung. 1,454,049; May 8.

Valve-actuating device for hydrocarbon motors. C. R. Short. 1,454,084; May 8.
Valve, Air-brake triple. A. Silvene and L. B. Stedman. 1,454,456; May 8.
Valve, Automatic brake. H. A. Thompson. 1,454,525; May 8.
Valve, Bellows. G. W. Bemis. 1,454,207; May 8.
Valve cock. P. L. Palmer and G. W. Draggoo. 1,454,222; May 8.
Valve for compressors. M. W. Stoms. 1,454,347; May 8.
Valve for heating systems, Antivacuum relief. H. O. Curtis. 1,454,729; May 8.
Valve device, Brake. T. H. Thomas. 1,454,569; May 8.
Valve mechanism. E. C. Newcomb. 1,454,331; May 8.
Valve, Mixing. H. Junkers. 1,454,172; May 8.
Valve-operating mechanism. F. Yardley. 1,454,307; May 8.
Valve-operating mechanism for flushing tanks, Outlet-. A. F. Curtin. 1,454,428; May 8.
Valve, Pressure. C. Lalama. 1,454,680; May 8.
Valve, Pressure-relief. H. A. Thrush. 1,454,353; May 8.
Valve-tappet silencer. G. W. and C. K. Mosey. 1,454,453; May 8.
Valve, Stop and waste. W. H. Smith. 1,454,415; May 8.
Vanity bag and the like. N. Kasdan. 1,454,515; May 8.
Vase. F. Carder. Des. 62,317; May 8.
Vegetable fiber, Treating. H. C. Fuelier. 1,454,581; May 8.
Vehicle. M. J. Furlong. 1,454,162; May 8.
Vehicle bumper. J. A. Nomicos. 1,454,133; May 8.
Vehicle curtain. C. A. Zahn. 1,454,098; May 8.
Vehicle jack. P. I. Namtvedt. 1,454,686; May 8.
Vehicle light, Steerable. W. I. Ingledue. 1,454,379; May 8.
Vehicle, Motor. E. H. Belden. 1,454,597; May 8.
Vehicle, Motor. S. A. Coffey and J. B. Ernsdorff. 1,454,105; May 8.
Vehicle, Motor-driven. S. F. Holden. 1,454,115; May 8.
Vehicle, Occupant-propelled. C. Dahl. 1,454,626; May 8.
Vehicle signal. A. Hellebrand. 1,454,114; May 8.
Vehicle spring. H. Taylor. 1,454,568; May 8.
Vehicle wheel. J. G. Callo. 1,454,406; May 8.
Vehicle wheels, Testing apparatus for determining non-alignment of. J. F. Duby. 1,454,628; May 8.
Vehicle wheel. B. B. Lorenz. 1,454,122; May 8.
Vehicle wheel. H. O. Maluzinger. 1,454,245; May 8.
Vehicles, Brake for motor and road. A. J. Rowledge. 1,454,380; May 8.
Vehicles, Signal apparatus for motor. A. J. Perron. 1,454,184; May 8.
Vehicles, Traffic signal for. H. J. Collins. 1,454,726; May 8.
Vessel, Dispensing. B. N. Wells. 1,454,803; May 8.
Vessels, Propeller for. C. M. Motte. 1,454,180; May 8.
Vibrator, Massage. L. Hermann. 1,454,511; May 8.
Wagon bed. L. L. Mootbart. 1,454,179; May 8.
Wall board and making the same. H. A. Smith. 1,454,823; May 8.
Wall construction. J. F. Booraem. 1,454,310; May 8.
Washboiler. J. R. M. and B. P. Chalfant. 1,454,537; May 8.
Washing machine. G. E. Hawk. 1,454,384; May 8.
Washing machine. J. J. Kenyon. 1,454,174; May 8.
Watch charm and the like. J. M. McLean and G. T. Munn. 1,454,127; May 8.
Watch, Convertible. S. Loeb. 1,454,322; May 8.
Water-cooling device, Natural. W. O. Ewinger. 1,454,470; May 8.
Water, fire, and germ proof composition. W. E. Willett. 1,454,780; May 8.
Water fountain for chickens. R. E. Jones. 1,454,171; May 8.
Watch guard. P. H. Nolting. 1,454,763; May 8.
Water motor. J. W. Carlson. 1,454,212; May 8.
Water sterilizer and purifier, Electric. W. T. Harrell. 1,454,736; May 8.
Wave motor. F. I. Webb and C. S. Harrison. 1,454,801; May 8.
Weather strip. N. B. Cannady. 1,454,210; May 8.
Weeder, Garden. O. Madson. 1,454,326; May 8.
Well drilling, Method of and apparatus for sidetracking in deep-. N. Esperson. 1,454,048; May 8.
Wheel: *See*—
Automobile steering wheel. Resilient wheel.
Car wheel. Sprocket wheel.
Cast-metal wheel. Vehicle wheel.
Wheel mounting, Detachable. H. E. Holbrook. 1,454,282; May 8.
Wheels, Cutting gear. H. J. Eberhardt. 1,454,430; May 8.
Window attraction, Store-. H. B. Clements. 1,454,426; May 8.
Window bracket. J. A. Crozier. 1,454,155; May 8.
Window cleaner. J. F. Wayne. 1,454,481; May 8.
Window-washing apparatus. J. C. G. Bonney. 1,454,373; May 8.
Windshields, Light screen for. R. A. Whall and E. R. Bishop. 1,454,498; May 8.
Windshield wiper. I. J. Nelson. 1,454,650; May 8.
Wire, Barbed. R. Gösser. 1,454,584; May 8.
Wire fabrics, Weaving. J. S. Barnes. 1,454,610; May 8.
Wire fence fabrics to posts, etc., Clip for fastening. R. L. Roney. 1,454,254; May 8.
Wire joint. G. Dincognito. 1,454,156; May 8.
Wire trolling-line and twine winder. W. H. Gruenhagen. 1,454,050; May 8.
Wireless telegraphy, Receiving arrangement for. A. Meissner. 1,454,328; May 8.
Wireless transmitter. W. T. Ditcham. 1,454,508; May 8.
Woodworking machine. C. F. Bouin. 1,454,264; May 8.
Wrench. A. Komnenus. 1,454,444; May 8.
Wrench. V. L. Ochoa. 1,454,333; May 8.
Yarns wound in the form of cheeses, Bleaching, dyeing, or other fluid treatment of. J. and T. Brandwood. 1,454,312; May 8.
Zirconium dioxide, Producing. O. Ruff. 1,454,564; May 8.

CLASSIFICATION OF PATENTS

ISSUED MAY 8, 1923.

NOTE.—First number—class, second number—subclass, third number—patent number.

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Allen Paint & Putty Works, Chicago, Ill. Putty. 168,463–4; May 22; Serial Nos. 172,968–9; published Feb. 20, 1923.

Alpha Chemical Company, The, Springfield, Ohio. Tonic and laxative tablet. 168,341; May 22; Serial No. 154,468; published Feb. 20, 1923.

American Products Company, The. (See Mills Brothers Company, The.)

American Rubber & Tire Co., The, Akron, Ohio. Belts, shoes, and slippers. 168,338; May 22; Serial No. 156,208; published Feb. 20, 1923.

American Sack Co., Chicago, Ill. Cloth mailing bags. 168,454; May 22; Serial No. 173,991; published Feb. 27, 1923.

American Steel Chase Co., New York, N. Y. Washers for cleaning type, halftone cuts, wood type, etc. 168,474; May 22; Serial No. 167,969; published Feb. 20, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Clocks. 168,413; May 22; Serial No. 172,819; published Feb. 20, 1923.

Apco Asphalt Roofing Co., Inc., New York, N. Y. Asphalt roofing. 168,526; May 22.

Ardath Tobacco Company, Limited, London, England. Cigarettes. 168,432; May 22; Serial No. 171,982; published Feb. 20, 1923.

Arden, Elizabeth. (See Lewis, Florence N.)

Baldwin, Henry P., Ltd., doing business as The Baldwin Packers, Lahaina, Hawaii. Canned pineapple. 168,536; May 22.

Bartlett Nu Products Corporation, Pasadena, Calif. Food beverage made of fruits, nuts, and grain. 168,364; May 22; Serial No. 164,987; published Feb. 27, 1923.

Bauman, Hyman, & Co., New York, N. Y. Cotton piece goods. 168,460; May 22; Serial No. 173,275; published Feb. 20, 1923.

Bement-Rea Co. Inc., Terre Haute, Ind. Baking powder. 168,378; May 22; Serial No. 169,393; published Feb. 20, 1923.

Bing, I. & S., Company, The, Cincinnati, Ohio. Men's overcoats, trousers, and suits. 168,467; May 22; Serial No. 167,068; published Feb. 20, 1923.

Birdsey Somers Company, New York, N. Y. Corsets, waists, girdles, and corset combinations. 168,323; May 22; Serial No. 167,221; published Jan. 30, 1923.

Blauston, Nathan L., doing business as Marie Antoinette Perle Co., New York, N. Y. Pearls. 168,443; May 22; Serial No. 170,614; published Feb. 20, 1923.

Brandenburg & Brandenburg, New York, N. Y. Manufactured furs. 168,336; May 22; Serial No. 160,993; published Feb. 20, 1923.

Brine, James W., Company, The, Boston, Mass. Footballs, football bladders, inflators, pads, etc. 168,390; May 22; Serial No. 169,886; published Feb. 20, 1923.

Bristol-Myers Company, New York, N. Y. Cathartic and laxative preparation. 168,407; May 22; Serial No. 171,441; published Feb. 20, 1923.

Brock-Carlson Laboratories, Inc., Minneapolis, Minn. Coconut-oil shampoo. 168,484; May 22; Serial No. 168,752; published Feb. 20, 1923.

Brummer, Max B., & Son, Inc., New York, N. Y. Knickerbockers and sport, riding, and golf trousers. 168,392; May 22; Serial No. 169,947; published Feb. 20, 1923.

Calhoun, Robbins & Co., New York, N. Y. Pocketbooks, purses, cardcases, tourists' cases, bill books, etc. 168,428; May 22; Serial No. 172,204; published Feb. 20, 1923.

California Fruit Selling Company, San Francisco, Calif. Dried and canned fruits. 168,529; May 22.

California Paint Company, Oakland, Calif. Paints and paint enamels. 168,506; May 22.

California Underwear and Hosiery Mills, doing business as California Underwear Mills, Los Angeles, Calif. Ladies' knit underwear. 168,387; May 22; Serial No. 169,616; published Feb. 20, 1923.

Centaur Company, The, New York, N. Y. Vegetable preparation for regulating the stomach and bowels of infants and children. 168,519; May 22.

Central Committee Knesseth Israel, of Jerusalem, Palestine, Inc., New York, N. Y. Collection boxes. 168,379; May 22; Serial No. 169,395; published Feb. 20, 1923.

Charleroi Laboratories, Inc., Charleroi, Pa. Preparation for eczema, tetter, and itch. 168,340; May 22; Serial No. 155,047; published Feb. 20, 1923.

Chesney Explosive Company, The, Marietta, Ohio. Explosive used largely in shooting oil wells. 168,424; May 22; Serial No. 172,371; published Feb. 20, 1923.

Chew, Manley, Midland, Ontario, Canada. Fiber board. 168,371; May 22; Serial No. 163,324; published Feb. 13, 1923.

Clairtex Knitting Company. (See Gelarie, Saul.)

Coleman Lamp Co., Wichita, Kans. Portable gasoline lamps and lanterns, hollow-wire lighting plants and fixtures, etc. 168,517; May 22.

Conklin, E. W., and Son. (See Conklin, Horace E.)

Conklin, Horace E., doing business as E. W. Conklin and Son, Binghamton, N. Y. Grass or field seeds and seed grains. 168,325; May 22; Serial No. 166,345; published Dec. 19, 1922.

Collins Mfg. Co., Holyoke, Mass. Ledger writing and printing paper. 168,531–3; May 22.

Collins Mfg. Co., Holyoke, Mass. Bond writing and printing paper. 168,534; May 22.

Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Typewriter ribbons and carbon paper. 168,426; May 22; Serial No. 172,520; published Feb. 20, 1923.

Country Club Soda Co., Inc., Springfield, Mass. Cream soda, birch beer, ginger ale, lemon soda, etc. 168,458; May 22; Serial No. 173,406; published Feb. 20, 1923.

Cudahy Packing Company, The, Chicago, Ill. Shortening compound. 168,335; May 22; Serial No. 161,031; published Feb. 27, 1923.

Daison Manufacturing Co. Inc., Philadelphia, Pa. Lamp shades made of fabric. 168,528; May 22.

Deane Plaster Co., The, Yonkers, N. Y. Foot warming plasters. 168,504; May 22.

Di Giorgio, Rosario, Los Angeles, Calif. Fresh citrous fruits, fresh deciduous fruits, and fresh vegetables. 168,363; May 22; Serial No. 165,354; published Feb. 27, 1923.

Dismond, Henry B., doing business as O-Do-Less Products Co., Danville, Ill. Toilet lotion for deodorizing offensive and excessive perspiration. 168,380; May 22; Serial No. 169,437; published Feb. 20, 1923.

Dobson, John & James, Inc., New York, N. Y. Coats for ladies and misses. 168,329; May 22; Serial No. 165,289; published Jan. 2, 1923.

"Dolly Dixie" M'f'g Company. (See Morgan-Anderson Company.)

Dreifus, Eckstein & King, Inc., New York, N. Y. Hosiery 168,382; May 22; Serial No. 169,475; published Feb. 20, 1923.

Duds Co. (See Winter, Charles A.)

Durabell Mills Co., The. (See Kronovet, Joseph A.)

Eaton Rapids Woolen Mills, Eaton Rapids, Mich. Coats for men, women, and children. 168,527; May 22.

Elkin Turn Shoe Company, Philadelphia, Pa. Welt and turn shoes, oxfords, pumps, and slippers for ladies, misses, and children. 168,319; May 22; Serial No. 167,804; published Feb. 27, 1923.

Elmo Inc., Philadelphia, Pa. Deodorants. 168,410; May 22; Serial No. 171,352; published Feb. 20, 1923.

Embourg Textile Co. Inc., New York, N. Y. Textile wash cloth and towel. 168,438; May 22; Serial No. 171,013; published Feb. 20, 1923.

Engel, Fried, & Company, Inc., New York, N. Y. Women's fur coats. 168,318; May 22; Serial No. 168,214; published Jan. 9, 1923.

Enzler, Emil, New York, N. Y. Waterproof ink for stenciling. 168,441; May 22; Serial No. 170,813; published Feb. 20, 1923.

Faspray Corporation, Dover, Del., and New York, N. Y. Washing machines for the washing of dishes, bottles, etc. 168,440; May 22; Serial No. 170,974; published Feb. 20, 1923.

Faultless Caster Co., Evansville, Ind. Casters. 168,481; May 22; Serial No. 168,463; published Feb. 20, 1923.

Fedco Sales Company, Jersey City, N. J. Cigarette holders. 168,485; May 22; Serial No. 168,760; published Feb. 20, 1923.

Federal Arch-Lift Manufacturing Company, Boston, Mass. Arch supporters. 168,397; May 22; Serial No. 171,731; published Feb. 20, 1923.

Fitzgerald Manufacturing Company, The, Torrington, Conn. Electrically-operated hair driers, toasters, and waffle irons. 168,417; May 22; Serial No. 172,501; published Feb. 20, 1923.

Fitzgerald Manufacturing Company, The, Torrington, Conn. Electrically-operated vibrators. 168,418; May 22; Serial No. 172,590; published Feb. 20, 1923.

Foote & Jenks, Jackson, Mich. Extracts for food-flavoring purposes. 168,380; May 22; Serial No. 169,850; published Feb. 27, 1923.

Fries, Beall & Sharp Co. Inc., Washington, D. C. Asphalt shingles, cements, plaster, roofing, etc. 168,384; May 22; Serial No. 169,583; published Feb. 13, 1923.

Garner Bros., New York, N. Y. Misses' and children's hats. 168,332; May 22; Serial No. 168,715; published Jan. 30, 1923.

Gelarie, Saul, doing business as Clairtex Knitting Company, Brooklyn, N. Y. Bloomers. 168,487; May 22.

General Commercial Company, San Francisco, Calif. Canned fruits—namely, peaches, pears, apricots, apples; dried fruits—namely, prunes, peaches, etc. 168,375–6; May 22; Serial No. 169,291–2; published Feb. 27, 1923.

Georgopulo, G. A., & Co., New York, N. Y. Cigarettes. 168,315; May 22; Serial No. 168,260; published Feb. 27, 1923.

Gilmore Petroleum Company, Los Angeles, Calif. Lubricating oils. 168,453; May 22; Serial No. 173,634; published Feb. 20, 1923.
Glacifer Company, The, Boston, Mass. Cooling containers. 168,345; May 22; Serial No. 148,023; published Feb. 20, 1923.
Green, A. P., Fire Brick Co., Mexico, Mo. Fire brick, fire-brick patching material, and plastic furnace lining. 168,512; May 22.
Hagemann Glass Co., The, Cincinnati, Ohio. Mirror and plate glass for mirrors and art purposes. 168,472; May 22; Serial No. 167,672; published Feb. 20, 1923.
Hall-Neal Furnace Company, Indianapolis, Ind. Coal, wood, gas, and oil treating furnaces, grate frames, grate bars, etc. 168,465; May 22; Serial No. 143,864; published July 12, 1921.
Hamburger Bros., New York, N. Y. Ladies' dresses, bungalow aprons, bath robes, and kimonos. 168,391; May 22; Serial No. 169,001; published Feb. 13, 1923.
Hansen, Hans P., Donna, Tex. Fresh citrous fruit. 168,525; May 22.
Hatch, Robert A. B., doing business as Normasal Chemical Co., San Diego, Calif. Granulated effervescing compounds used as blood salts. 168,449; May 22; Serial No. 170,291; published Feb. 20, 1923.
Heddon's, James, Sons, Dowagiac, Mich. Fish baits or lures. 168,461; May 22; Serial No. 173,191; published Feb. 20, 1923.
Heim, Fritz, & Son, Utica, N. Y. Dressing for salads and sandwiches. 168,478; May 22; Serial No. 168,262; published Feb. 20, 1923.
Hershey Chocolate Company, Hershey, Pa. Chewing gum. 168,518; May 22.
Hewitt, Ada M., Detroit, Mich. Toy insect. 168,320; May 22; Serial No. 167,774; published Feb. 27, 1923.
Hochschild, Kohn & Co., Inc., Baltimore, Md. Arch supports and elastic bandages. 168,508; May 22.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 168,457; May 22; Serial No. 173,423; published Feb. 20, 1923.
Hoffman, Charles E., Philadelphia, Pa. Mercurox used in the treatment of trachoma. 168,510; May 22.
Hoffman, Morris Company, St. Louis, Mo. Knickerbockers. 168,451; May 22; Serial No. 170,192; published Feb. 20, 1923.
Hohner, M., New York, N. Y. Mouth harmonicas. 168,408–9; May 22; Serial Nos. 171,420–21; Feb. 20, 1923.
Hudson Bay Fur Company. (See Kosofsky, Aaron.)
Indianapolis Tent & Awning Company, Indianapolis, Ind. Clothing consisting of outing coats, trousers, vests, and suits. 168,385; May 22; Serial No. 169,595; published Feb. 20, 1923.
Jerico Co., The, Brooklyn, N. Y. Hair dressing. 168,411; May 22; Serial No. 171,824; published Feb. 20, 1923.
Johnson, Anna L. R., doing business as Plaskul Game Company, Marietta, Minn. Table game played with cards, games, toys, and sporting goods. 168,415; May 22; Serial No. 172,746; published Feb. 20, 1923.
Kaynee Company, The, Cleveland, Ohio. Youths' dress, negligee, and work shirts. 168,351; May 22; Serial No. 126,223; published Feb. 13, 1923.
Keller Knitting Company, The, Cleveland, Ohio. Knitted sweaters and caps. 168,314; May 22; Serial No. 168,530; published Dec. 19, 1922.
Kenyon, C., Company, Inc., Brooklyn, N. Y. Rubber tires and tubes. 168,357; May 22; Serial No. 165,960; published Feb. 20, 1923.
Kimball, C. M., Company, Winthrop, Mass. Ammonia. 168,394; May 22; Serial No. 171,805; published Feb. 20, 1923.
King's Food Products Co., Portland, Oreg. Canned and dehydrated fruits and vegetables. 168,361; May 22; Serial No. 165,391; published Feb. 27, 1923.
Kings County Packing Co., Armona, Calif. Canned fruits. 168,480; May 22; Serial No. 168,419; published Feb. 20, 1923.
Klearfax Linen Rug Company, Duluth, Minn. Corner attachments for rugs and the like to prevent slipping. 168,522; May 22.
Knight, Edward B., doing business as E. Ben Knight, Penn Yan, N. Y. Salves or ointments and oils as remedial agents for cuts, burns, sprains, catarrh, etc. 168,434; May 22; Serial No. 171,176; published Feb. 20, 1923.
Knight Packing Company, Portland, Oreg. Tomato catchup, tomato purée, chili sauce, and cocktail tomato catchup. 168,492; May 22.
Kosofsky, Aaron, doing business as Hudson Bay Fur Company, New York, N. Y. Chemical dye for furs. 168,503; May 22.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. Fresh citrous fruits. 168,505; May 22.
Kronovet, Joseph A., doing business as The Durabell Mills Co., New York, N. Y. Hosiery and men's and women's knitted underwear. 168,326; May 22; Serial No. 165,959; published Jan. 2, 1923.
Laskin-Swatt Co., El Paso, Tex. Hosiery. 168,452; May 22; Serial No. 170,144; published Feb. 20, 1923.
Lemoine, Hyatt, New York, N. Y. One piece overall or combination suits. 168,321; May 22; Serial No. 167,644; published Feb. 13, 1923.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Powder, rouge, and lip sticks. 168,495; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Face cream. 168,496; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Depilatories. 168,497; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Skin-cleansing cream. 168,498; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Nail polish and hand cream. 168,499; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Rouge and powder. 169,500; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Powder, rouge, and lip sticks. 168,501; May 22.
Liberty Macaroni Manufacturing Co., St. Louis, Mo. Macaroni, spaghetti, noodles, and short paste stuff. 168,343; May 22; Serial No. 153,609; published Feb. 27, 1923.
Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Men's and boys' overalls and coveralls. 168,330; May 22; Serial No. 165,026; published Oct. 31, 1922.
Loeb, Herbert B., Philadelphia, Pa. Boxlike receptacles. 168,383; May 22; Serial No. 169,489; published Feb. 20, 1923.
Loesberg, Abraham P., New York, N. Y. Tooth enamel. 168,502; May 22.
Lowenthal, Henry, doing business as Standard Mfg. Co., Memphis, Tenn. Stick candy. 168,388; May 22; Serial No. 169,640; published Feb. 27, 1923.
McCormick, E. J., Rubber Co., Lodi, N. J. Rubber for use in making dental plates. 168,491; May 22.
McCoy, Lon A., doing business as Red Seal Products Company, Akron, Ohio. Coff-o-malt, a substitute for coffee. 168,334; May 22; Serial No. 161,497; published Feb. 20, 1923.
McFarland, J. V., Rutherfordton, N. C. Medical preparation for the treatment of high blood pressure. 168,448; May 22; Serial No. 170,494; published Feb. 20, 1923.
McKinney, Eva J., doing business as McKinney Manufacturing Co., Clinton, Ill. Bedclothes protector. 168,430; May 22; Serial No. 172,003; published Feb. 20, 1923.
McKinney Manufacturing Co. (See McKinney, Eva J.)
Macy, R. H., & Co. Inc., New York, N. Y. Hair restorer and tonic. 168,404; May 22; Serial No. 171,542; published Feb. 20, 1923.
Mahan, Peter J., Philadelphia, Pa. Truss. 168,490; May 22.
Malone-Lemmon Laboratories, New York, N. Y. Electrical apparatus and equipment—namely, rheostats. 168,422; May 22; Serial No. 172,424; published Feb. 20, 1923.
Malouf, Abraham M., New York, N. Y. Poultry fountains. 168,515; May 22.
Manne & Weill, New York, N. Y. Fabric gloves. 168,530; May 22.
Marie Antoinette Perle Co. (See Blauston, Nathan L.)
Marine Oil Company, Ltd., New Orleans, La. Cylinder and automobile oil for lubricating purposes. 168,355; May 22; Serial No. 166,384; published Feb. 20, 1923.
Marsh, Lavinia A., doing business as E. Morgan & Sons, Providence, R. I. Pharmaceutical product for the treatment of poisoning, burns, bruises, etc. 168,447; May 22; Serial No. 170,500; published Feb. 20, 1923.
Martin Varnish Company, Chicago, Ill. Varnishes. 168,473; May 22; Serial No. 167,882; published Feb. 20, 1923.
Maxtic Belt & Packing Co., Wellesley Hills, Mass. Fabric belting. 168,482; May 22; Serial No. 168,479; published Feb. 20, 1923.
May Department Stores Company, New York, N. Y. Pianos and phonographs. 168,423; May 22; Serial No. 172,385; published Feb. 20, 1923.
Merit Manufacturing Co. (See Parker, Elgin R.)
Mervine Mfg. Co. Inc., Wilmington, Del., and Stroudsburg, Pa. Concentrated preparation for preparing non-alcoholic, maltless beverages. 168,476; May 22; Serial No. 168,160; published Feb. 20, 1923.
Mile-O-More Company, Spokane, Wash. Gasoline strainers for internal-combustion engines. 168,442; May 22; Serial No. 170,659; published Feb. 20, 1923.
Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Baby bibs, infants' pants, etc. 168,333; May 22; Serial No. 161,935; published Feb. 20, 1923.
Mochar Leather Goods Corporation, New York, N. Y. Portfolios. 168,507; May 22.
Monarch Leather Company, Chicago, Ill. Leather. 168,317; May 22; Serial No. 168,222; published Dec. 19, 1922.
Montcalm, Theodore, Holyoke, Mass. Liniment. 168,393; May 22; Serial No. 171,813; published Feb. 20, 1923.
Morgan-Anderson Company, The, doing business as "Dolly Dixie" Mfg Company, Toledo, Ohio. House frocks and aprons. 168,386; May 22; Serial No. 169,602; published Feb. 20, 1923.
Morgan, E., & Sons. (See Marsh, Lavinia A.)
Morse, E. E., Lodi, Calif. Fresh grapes. 168,469; May 22; Serial No. 167,307; published Feb. 27, 1923.

Munsell, Jesse G., doing business as Munsell's School of Health and Munsell's Supply Co., Lincoln, Nebr. Blood stream tonics. 168,511; May 22.
National Lime & Stone Company, The, Carey, Ohio. Lime for plastering or building purposes. 168,450; May 22; Serial No. 170,207; published Jan. 30, 1923.
New Process Company, Warren, Pa. Men's traveling bags. 168,493; May 22.
New Process Company, Warren, Pa. Ladies' traveling bags. 168,494; May 22.
Nolan Co., The, Greenville, Pa. Preparation for eczema, salt rheum, impetigo, etc. 168,445; May 22; Serial No. 170,535; published Feb. 20, 1923.
Normasal Chemical Co. (See Hatch, Robert A. B.)
O-Do-Less Products Co. (See Dismond, Henry B.)
Olympia Canning Company, Olympia, Wash. Canned fruits. 168,374; May 22; Serial No. 169,076; published Feb. 27, 1923.
Olympia Canning Company, Olympia, Wash. Canned fruits. 168,535; May 22.
Orthmann, Henry A., Brooklyn, N. Y. Mayonnaise dressing. 168,470; May 22; Serial No. 167,582; published Feb. 13, 1923.
Owens Bottle Company, The, Toledo, Ohio. Package of sterilized glass bottles. 168,488; May 22.
Paperbrella Co., The, New York, N. Y., assignor to Paperbrella Corporation. Umbrellas. 168,339; May 22; Serial No. 155,697; published Feb. 6, 1923.
Paperbrella Corporation. (See Paperbrella Co., assignor.)
Parker-Browne Company, Fort Worth, Tex. Nonalcoholic beverage or root beer. 168,489; May 22.
Parker, Elgin R., doing business as Merit Manufacturing Co., Los Angeles, Calif. Water heaters using gas as a fuel. 168,513; May 22.
Partola Distributing Company, New York, N. Y. Antiseptic laxative. 168,322; May 22; Serial No. 167,582; published Feb. 20, 1923.
Parvin, W. B., Co. (See Parvin, William R.)
Parvin, William R., doing business as W. R. Parvin Co., Ogden, Utah. Fresh deciduous fruits and fresh vegetables. 168,479; May 22; Serial No. 168,373; published Feb. 20, 1923.
Patrician Olive Oil Corp., New York, N. Y. Olive oil. 168,360; May 22; Serial No. 165,460; published Feb. 13, 1923.
Peacock, William F., doing business as The United Food Products Company, Portland, Me. Food-flavoring extracts. 168,471; May 22; Serial No. 167,735; published Feb. 27, 1923.
Peerless Belting Company, Gardenville, N. Y. Leather and cotton belting. 168,523–4; May 22.
Pfeiffer, Frederick, & Co. Inc., New York, N. Y. Syringes. 168,416; May 22; Serial No. 172,685; published Feb. 20, 1923.
Philadelphia Rug Mills, Inc., Philadelphia, Pa. Wool rugs. 168,403; May 22; Serial No. 171,459; published Feb. 20, 1923.
Philippe, Louis, New York, N. Y. Hair tonic. 168,444; May 22; Serial No. 170,541; published Feb. 20, 1923.
Phillips' Patents Limited, London, England. India-rubber plates or pads for attachment to the soles of boots and shoes. 168,316; May 22; Serial No. 168,234; published Nov. 14, 1922.
Plaskul Game Company. (See Johnson, Anna L. R.)
Pneumocol Company. (See Strain, Lewis K.)
Poland Paper Company, Mechanic Falls, Me. Bond, ledger, and writing paper. 168,419; May 22; Serial No. 172,489; published Feb. 6, 1923.
Popel-Giller Co., Warsaw, Ill. Malt sirup for food purposes. 168,362; May 22; Serial No. 165,412; published Feb. 27, 1923.
Post-Glover Electric Company, Cincinnati, Ohio. Electrical resistances. 168,414; May 22; Serial No. 172,764; published Feb. 20, 1923.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,356; May 22; Serial No. 166,247; published Feb. 20, 1923.
Providence Paper Co., The, Providence, R. I. Twine and household cord. 168,459; May 22; Serial No. 173,363; published Feb. 20, 1923.
Public Ledger Company, Philadelphia, Pa. Contest, a feature in newspapers. 168,446; May 22; Serial No. 170,505; published Feb. 20, 1923.
Purcell, William L., Floral Park, N. Y. Foot powder. 168,368; May 22; Serial No. 164,603; published Oct. 10, 1922.
Purvis, F. L., San Bernardino, Calif. Portions of fresh watermelon for individual use. 168,466; May 22; Serial No. 166,711; published Feb. 27, 1923.
Quality Coffee & Tea Co., Inc., Los Angeles, Calif. Spices. 168,372; May 22; Serial No. 162,054; published Feb. 20, 1923.
Queensland Meat Export Company, Limited, Brisbane, Queensland, Australia. Foods and ingredients of foods. 168,352; May 22; Serial No. 122,405; published Feb. 27, 1923.
Red Seal Products Company. (See McCoy, Lon A.)
Remmers Soap Company, The, Cincinnati, Ohio. Soap. 168,402; May 22; Serial No. 171,551; published Feb. 20, 1923.
Ridley Watts & Co., New York, N. Y. Cotton piece goods. 168,433; May 22; Serial No. 171,190; published Feb. 20, 1923.
Ross, Nathan K., Silvis, Ill. Beverages sold as soft drinks and sirups for making the same. 168,421; May 22; Serial No. 172,441; published Feb. 20, 1923.
Rubin Shoe Co., New York, N. Y. Women's, misses', and children's shoes. 168,353; May 22; Serial No. 164,994; published Mar. 6, 1923.
Rubin Shoe Co., New York, N. Y. Women's, misses', and children's shoes of leather. 168,369; May 22; Serial No. 164,515; published Feb. 27, 1923.
Russ Manufacturing Company, The, Cleveland, Ohio. Washing and ironing machines. 168,405; May 22; Serial No. 171,472; published Feb. 20, 1923.
S. M. & R. Co., Inc., Chicago, Ill. Ladies' and children's dresses and sacks, boudoir caps, bathing suits, etc. 168,350; May 22; Serial No. 130,246; published Apr. 11, 1922.
Sailor Maid Middy Co. Inc., Brooklyn, N. Y. Middy blouses, overblouses, smocks, tuxedos, waists, and dresses. 168,327; May 22; Serial No. 165,727; published Nov. 14, 1922.
San Francisco Breweries, Ltd., The, San Francisco, Calif., assignors to Wielands Incorporated. Beer, malt tonic and malt beverages and malt sirup. 168,331; May 22; Serial No. 167,367; published Feb. 27, 1923.
San Francisco Sulphur Co., San Francisco, Calif. Agricultural sulphur. 168,348; May 22; Serial No. 134,438; published Feb. 20, 1923.
Schier, Philip, trading as Union Pharmacal Company, Kansas City, Mo. General tonics. 168,349; May 22; Serial No. 133,850; published Feb. 20, 1923.
Schmidt, Geo. A., & Co., Chicago, Ill. Shampoo soap. 168,373; May 22; Serial No. 168,943; published Feb. 20, 1923.
Schocket, A., New York, N. Y. Vanity cases. 168,337; May 22; Serial No. 158,585; published Feb. 20, 1923.
Schoonmaker, F. W., Inc., New York, N. Y. Mouth wash. 168,439; May 22; Serial No. 170,994; published Feb. 20, 1923.
Sea Coast Packing Co., Seattle, Wash. Canned salmon. 168,483; May 22; Serial No. 168,646; published Feb. 20, 1923.
Sea-Dip Company, The, St. Louis, Mo. Bath salt. 168,401; May 22; Serial No. 171,659; published Feb. 20, 1923.
Sexauer, J. A., Mfg. Co. Inc., New York, N. Y. Fire-pot repair parts. 168,516; May 22.
Sherwin-Williams Company, The, Cleveland, Ohio. Paint, paint enamels, japans, varnishes, stains, etc. 168,347; May 22; Serial No. 136,241; published Feb. 20, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Combined linoleate and resinate lead and manganese drier. 168,455; May 22; Serial No. 173,581; published Feb. 20, 1923.
Sierra Vista Vineyard Corporation, San Francisco, Calif. Fresh grapes. 168,377; May 22; Serial No. 169,329; published Feb. 27, 1923.
Silberstein, J. D., & Sons, Inc., New York, N. Y. Men's and boys' dress, negligee, and work shirts. 168,328; May 22; Serial No. 165,566; published Nov. 7, 1922.
Smith-Yingling Company, Westminster, Md. Canned vegetables. 168,365; May 22; Serial No. 164,780; published Feb. 27, 1923.
Societe Anonyme Parfumerie Violet, Paris, France. Perfumes, toilet waters, face, talcum, and sachet powders, etc. 168,437; May 22; Serial No. 171,042; published Feb. 20, 1923.
Solvay Process Company, The, Solvay, N. Y. Sesquicarbonate of soda. 168,395; May 22; Serial No. 171,768; published Feb. 20, 1923.
Standard Mfg. Co. (See Lowenthal, Henry.)
Standard Match Co., Limited, The, Hempsted, England. Matches. 168,435; May 22; Serial No. 171,045; published Feb. 20, 1923.
Starr, Ana D., doing business as Starr Specialty Co., Tower City, N. Dak. Radiator cement. 168,436; May 22; Serial No. 171,044; published Feb. 20, 1923.
Stevens-Etter, San Antonio, Tex. Candy. 168,537; May 22.
Strain, Lewis K., doing business as Pneumocol Company, Dayton, Ohio. Ointment for use in the treatment of all forms of rheumatism, neuralgia, etc. 168,412; May 22; Serial No. 171,822; published Feb. 20, 1923.
Style-Center Tailoring Company, The, Cincinnati, Ohio. Men's and young men's garments. 168,324. May 22; Serial No. 166,410; published Dec. 19, 1922.
Success Heater and Manufacturing Company, Des Moines, Iowa. Warm-air heaters and furnaces. 168,521; May 22.
Superior Silver Company, Inc., Brooklyn, N. Y. Lamp standards, fruit bowls, candlesticks, comports, etc. 168,381; May 22; Serial No. 169,466; published Feb. 20, 1923.
Surgeons Specialty Company, The, Cincinnati, Ohio. Non-alcoholic witch-hazel. 168,342; May 22; Serial No. 154,066; published Feb. 20, 1923.
Sussman, Wormser & Co., San Francisco, Calif. Canned corn. 168,509; May 22.
Tarratine Manufacturing Co. Inc., Bangor, Me. Soap, soap cream and paste. 168,429; May 22; Serial No. 172,189; published Feb. 20, 1923.
Trebor Manufacturing Co., New York, N. Y. Lamp cord. 168,462; May 22; Serial No. 173,056; published Feb. 20, 1923.

Trinner, John, New York, N. Y. Ladies' hats. 168,313; May 22; Serial No. 168,696; published Jan. 30, 1923.
Trowbridge, Archibald L., Detroit, Mich. Bridge score sheets and pads. 168,456; May 22; Serial No. 173,452; published Feb. 20, 1923.
Union Pharmacal Company. (See Schier, Philip.)
United Cigar Stores Company of America, Jersey City, N. J., and New York, N. Y., assignor to United Retail Chemists Corporation, New York, N. Y. Fruit beverage sold as a soft drink. 168,400; May 22; Serial No. 171,672; published Feb. 20, 1923.
United Food Products Company. (See Peacock, William F.)
United Oil Company, Fort Dodge, Iowa. Gasoline, kerosene, naphtha, lubricating oil, distillate gas, oil, etc. 168,358; May 22; Serial No. 168,358; published Feb. 20, 1923.
Vawter, Edgar S., Monroe, La. Medicine for the treatment of stomach, kidney, and liver diseases, an ointment for the treatment of skin diseases. 168,396; May 22; Serial No. 171,746; published Feb. 20, 1923.
Vellguth, Walter A., San Francisco, Calif. Whipped-cream candy. 168,370; May 22; Serial No. 164,207; published Jan. 16, 1923.
Victor Radio Corporation, New York, N. Y. Radio apparatus. 168,431; May 22; Serial No. 172,137; published Feb. 20, 1923.
Ward, Eldridge H., doing business as Ward's Fudge Shop, Fort Worth, Tex. Candies. 168,514; May 22.
Washington Manufacturing Co., Nashville, Tenn. Work and dress shirts, overalls, garment supporters. 168,367; May 22; Serial No. 164,620; published Feb. 13, 1923.
Waterbury Company, New York, N. Y. Wire ropes. 168,398–9; May 22; Serial No. 171,674–5; published Feb. 20, 1923.
Waupun Canning Co., The, Waupun, Wis. Canned vegetables. 168,475; May 22; Serial No. 168,134; published Feb. 20, 1923.
Wenglein's, H. J., Norica- & Herold-Werke Nürnberg-Schwabacher Nadelfabriken G. m. b. H., Nuremberg, Germany. Talking-machine needles. 168,366; May 22; Serial No. 164,621; published Feb. 20, 1923.
Western Rubber Company, Tacoma, Wash. Solid and pneumatic rubber and fabric automobile tires. 168,520; May 22.
Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. Fresh apples. 168,354; May 22; Serial No. 166,518; published Feb. 20, 1923.
Wheeler, Wm. B., Chicago, Ill. Ready-mixed, paste, semi-paste, and dry paints, varnishes, enamels, colors, etc. 168,477; May 22; Serial No. 168,232; published Feb. 20, 1923.
Whitlock Coil Pipe Company, The, West Hartford, Conn. Water heaters. 168,486; May 22.
Wielands, Incorporated. (See San Francisco Breweries, Ltd., assignor.)
Williams, Violet V., Berkeley, Calif. Hair tonic. 168,406; May 22; Serial No. 171,438; published Feb. 20, 1923.
Wilson, Francis M., Williamstown, Mass. Apples, plums, cherries, grapes, pears, and peaches in their natural state. 168,359; May 22; Serial No. 165,470; published Feb. 20, 1923.
Winter, Charles A., doing business as Duds Co., New York, N. Y. Washing compounds. 168,420; May 22; Serial No. 172,500; published Feb. 20, 1923.
Wolin, L. A., Company, The, Cleveland, Ohio. Blouses, dresses, skirts, suits, and sweaters. 168,344; May 22; Serial No. 149,875; published Feb. 13, 1923.
Wood, T. W., & Sons, Richmond, Va. Plant food. 168,427; May 22; Serial No. 172,251; published Feb. 20, 1923.
Worden Grocer Company, Grand Rapids, Mich. Epsom salts, cream tartar, spirits of camphor, etc. 168,346; May 22; Serial No. 145,375; published Feb. 20, 1922.
Wurm, Joseph G., New York, N. Y. Hungarian goulash. 168,468; May 22; Serial No. 167,278; published Feb. 27, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bevis Rock Salt Co., Kansas City, Mo., and Lyons, Kans. Sunset. For Sacks Containing Salt. 25,949; May 22.
Camel Chemical Co., Inc., Portland, Oreg. Camel. For Battery Solution. 25,950; May 22.
Cook, Herbert N., New Orleans, La. Big Chef. For Canned Shrimp. 25,951; May 22.
Dunham, Granville A., Kansas City, Mo. Dunham's Shampoo. For Shampoo for Cleansing and Soothing the Scalp. 25,952; May 22.
Foster Honey and Mercantile Company, The, Boulder, Colo. The Sweet Heart of Flowers. For Honey Butter. 25,953; May 22.
Foster & Stewart Company, New York, N. Y. Quality Fabrics. For Quality Fabrics of Cotton Duck and Dyed, Printed, and Painted Cotton Fabrics. 25,954; May 22.
Freihofer, Wm., Baking Co., Philadelphia, Pa. Freihofer's Fine Bread. For Bread. 25,955; May 22.
Gentry, C. B., Chili Powder Co., Los Angeles, Calif. Gentry's High-Grade Chili Powder. For Chili Powder. 25,956; May 22.
Hagan, Charles F., doing business as Wyrick Spring Company, Inc., Crockett, Va. Wyrick. For Ginger Ale. 25,957; May 22.
Hargrave, T. A., doing business as Thos. A. Hargrave and Son, Dallas, Tex. Best Yet Lice, Mite & Roach Powder. For Insect Powder. 25,958; May 22.
Hub Hosiery Mills, Boston, Mass. Pussy Silver Legs. For Infants' Hose. 25,959; May 22.
Hudson Cigar Company, Beallsville, Ohio. Dewey's Big Havana. For Cigars. 25,960; May 22.
Independent Breweries Company, The, also doing business as Independent Products Company, St. Louis, Mo. Sampson. For Malt Sirup. 25,961; May 22.
Independent Products Company. (See Independent Breweries Company.)
Jenquins Laboratories, The, Chicago, Ill. Jenquin's Ext. For Cod-Liver-Oil Pills. 25,962; May 22.
Jett & Wood Mercantile Company, The Wichita, Kans. Harvest Home. For Blackberries. 25,963; May 22.
Johnston, Matthew R., doing business as M. R. Johnston Coffee Co., Baltimore, Md. M R J. For Coffee. 25,964; May 22.
Kellogg Company, Battle Creek, Mich. Kellogg's Corn Flakes. For Cereal Breakfast Food. 25,965; May 22.
Kisker, John V., & Co., Cincinnati, Ohio. Cove Dale. For Eggs. 25,966; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Hydrofoam (Pine Tar) Shampoo. For Containers Containing a Shampoo. 25,967; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Hydrofoam (Orange) Shampoo. For Containers Containing a Shampoo. 25,968; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Liquid Cream. For Containers Containing a Face Lotion. 25,969; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Sporicide. For Containers Containing an Antiseptic. 25,970; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Camolease. For Containers Containing a Salve. 25,971; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Scalphealth. For Containers Containing a Hair Tonic. 25,972; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Hairwealth. For Containers Containing a Hair Tonic. 25,973; May 22.
Krank, Alfred J., St. Paul, Minn. Krank's Mentho-Lemon. For Vanishing Cream. 25,974; May 22.
Madder, William B., Sharon, Pa. Rejuven. For Bird-Food Preparation. 25,975; May 22.
Marshall, George E., doing business as Sterling Products Company, Los Angeles, Calif. Nepo. For a Compound for Cleaning Paint and Like Surfaces. 25,976; May 22.
Mattei, Andrew, Fresno, Calif. Andivista. For Grapes. 25,977; May 22.
Miller, M. E., doing business as Miller Novelty Company, Chicago, Ill. Egyptian Flower Scent Bags. For Boxes of Sachet. 25,978; May 22.
National Paper Products Company, San Francisco, Calif. State. For Toilet Paper. 25,979; May 22.
National Paper Products Company, San Francisco, Calif. Pheasant. For Toilet Paper. 25,980; May 22.
National Paper Products Company, San Francisco, Calif. Otter. For Toilet Paper. 25,981; May 22.
National Paper Products Company, San Francisco, Calif. Iceland. For Toilet Paper. 25,982; May 22.
National Paper Products Company, San Francisco, Calif. Wasite. For Toilet Paper. 25,983; May 22.
National Paper Products Company, San Francisco, Calif. Martin. For Toilet Paper. 25,984; May 22.
Paredes, Elias, & Son, New York, N. Y. El Pareson. For Cigars, Cigarettes, and Tobacco. 25,985; May 22.
Pastene, P., & Co., Inc., Boston, Mass. Piedigrotta. For Italian Peeled Tomatoes. 25,986; May 22.
Reaineed Products Co., Harrisburg, Pa. Kleenzal. For Paint, Grease, Varnish, and Oil Remover. 25,987; May 22.
San Joaquin Fruit & Investment Company, Tustin, Calif. Mark Twain. For Oranges. 25,988; May 22.
Steele, Robert C., Lake City, Minn. Steele's Vana Brand Flavoring. For Flavoring Compound. 25,989; May 22.
Sterling Products Company. (See Marshall, George E.)
Symons-Moffett Co., Flint, Mich. Dinner Time. For Sliced Hawaiian Pineapple. 25,990; May 22.
Symons-Moffett Co., Flint, Mich. Iris. For Tea. 25,991; May 22.
Waukesha Silurian Water Co., Waukesha, Wis. Park's Original. For Ginger Ale. 25,992; May 22.
Wyrick Spring Company. (See Hagan, Charles F.)

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. Venus Erasers. For Erasers. 6,712; May 22.
American Lead Pencil Company, New York, N. Y. Venus Pencil. For Copying Pencils. 6,713; May 22.
American Lead Pencil Company, New York, N. Y. Venus Everpointed. For Mechanical Pencils. 6,714; May 22.
American Lead Pencil Company, New York, N. Y. A Thin Colored Lead Mechanical Pencil No. 9. For Mechanical Pencils. 6,715; May 22.
Asprey Candy Company, Sioux City, Iowa. Treats in Sweets. For Candies. 6,716; May 22.
Boyd, Charles G., Bethlehem, Pa. Boyd's Step Lively Foot Powder. For Foot Powders for Foot Baths. 6,717; May 22.
Capital Rodewite Co. Inc., South Washington, Va. Rodewite. For Cement-Colored Composition for Roads and Cement Constructions. 6,718; May 22.
Christell Brothers, Chicago, Ill. The Safety-Device for Porches. For Porch-Rail Safety Device. 6,719; May 22.
Goldberg, Isidor, doing business as National Garter Company, New York, N. Y. Kiddygrip Sockiets. For Hosiery Supporters. 6,720; May 22.
Hammel, Riglander & Co., New York, N. Y. V. T. F. Fancy Shape Lentilles. For Watch Glasses. 6,721; May 22.
Kirk, James S., Company, Chicago, Ill. Kirk's Cocoa Hardwater Castile. For Soap. 6,722; May 22.
Laadt Corporation, The, Chicago, Ill. Espec. For Electrical Spectacles. 6,723; May 22.
National Garter Company. (See Goldberg, Isidor.)
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Greases. For Greases. 6,724; May 22.
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Velvet Greases. For Motor Oils. 6,725; May 22.
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Pure Gasoline. For Gasoline. 6,726; May 22.
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Non-Chatter Motor Oil. For Motor Oils. 6,727; May 22.
O'Neil Oil & Paint Company, Milwaukee, Wis. O'Neil's "Every drop tested" Velvet Motor Oils. For Motor Oils. 6,728; May 22.
Wright's Underwear Company, Inc., Troy and New York, N. Y. Selling Health and Common Sense. For Adults' and Children's Underwear. 6,729; May 22.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aktiebolaget Atmos, Stockholm, Sweden. High-pressure boilers and parts thereof. 172,140; May 22.
Aliman, B., & Co., New York, N. Y. Hair nets. 178,540; May 22.
Aluminium-Industrie-Aktien-Gesellschaft, Neuhausen, Switzerland. Calcium carbide. 175,290; May 22.
Alumino-Thermic Corporation, Roselle Park, N. J. Metallic compounds for use in welding metals. 172,660; May 22.
American Automobile Accessories Company, The, Cincinnati, Ohio. Inner armor or reliner for automobile tires. 120,271; May 22.
American Lead Pencil Company, New York, N. Y. Lead pencils. 174,683; May 22.
American Oriental Candy Mfg. Co., Richmond, Va. Candy. 153,793; May 22.
Anchor Cap & Closure Corporation, Long Island City, N. Y. Fruit-jar rings. 174,353; May 22.
Arlon Shirt Company. (See Trachtenberg, Harvey.)
Atlantic Laboratories, Atlanta, Ga. Preparation for use as a general household cleaner. 169,146; May 22.
Atlantic Mills, Stottville, N. Y. Woven woolen piece goods. 172,316; May 22.
Auerlicht Gesellschaft m. b. H. Kommanditgesellschaft, Berlin, Germany. Upright and inverted gas mantles, burners, and lamps therefor and their parts and supplies therefor. 177,537; May 22.
Automatic Refrigerating Company, The, Hartford, Conn. Refrigerating apparatus. 177,645; May 22.
Bacharach-Rasin Co., Baltimore, Md. Bicycles. 115,398; May 22.
Balcells. (See Buenaventura Balcells Vallbona.)
Bamberger, L., & Co., Newark, N. J. Women's dresses. 170,361; May 22.
Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabric—viz, silk knitted cloth in the piece. 177,161; May 22.
Barbour Welting Company, Brockton, Mass. Cut soles of leather for boots and shoes. 175,054; May 22.
Barkmahn Company, Inc., The, New York, N. Y. Pipes. 174,602; May 22.
Barrow, A. C., & Company, Lynchburg, Va. Overalls, work shirts, coats, vests, and pants. 163,966; May 22.
Bauman, Hyman, & Co., New York, N. Y. Silk, cotton, and wool piece goods and mixtures of same. 178,657; May 22.
Bay State Cigar Co., Inc., Westfield, Mass. Cigars. 177,162; May 22.
Beach, Albert H., doing business as Pyramid Products Co., Los Angeles, Calif. Soap. 169,116; May 22.
Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. 178,086; May 22.
Bennett, Virginia D., New York, N. Y. Face powders, face creams, perfumes, toilet waters, etc. 163,961; May 22.
Bernstein, Samuel, doing business as Reliable Household Specialties Mfg. Co., New York, N. Y. Stove polish and furniture polish. 173,609; May 22.
Biloxi Packing & Trading Co., Biloxi, Miss. Canned oysters and shrimp. 173,397; May 22.
Binkert, Damon A., doing business as Solvine Chemical Company, Washington, D. C. Antiseptic powder. 178,546; May 22.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 178,810–11; May 22.
Bolgiano, J., Seed Co., The, Baltimore, Md. Field, vegetable, and flower seeds. 172,859; May 22.
Bond, Charles, Company, Philadelphia, Pa. Round leather and flat leather belting. 165,661; May 22.
Borgfeldt, George & Co., New York, N. Y. Dolls. 175,339; May 22.
Boyd-Welsh Shoe Company, St. Louis, Mo. Leather and cloth shoes. 175,542; May 22.
Brooklyn Hosiery Mills, Inc., Brooklyn, N. Y. Stockings. 169,573; May 22.
Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Baby pants. 172,027; May 22.
Brown, Wm. H., & Bro. Company, Baltimore, Md. Perfume, toilet water, sachet powder, and talcum and face powders. 174,818; May 22.
Buenaventura Balcells Vallbona, doing business as Balcells, Barcelona, Spain. Olive oil. 135,438; May 22.
Burcher, George E., doing business as Burcher's Pharmacy, Newport News, Va. General medicinal tonic. 174,124; May 22.
Butterick Publishing Company, The, New York, N. Y. Pamphlet published from time to time. 176,447; May 22.
Cadwallader Gibson Lumber Co., Manila, P. I.; San Francisco, Calif., and New York, N. Y. Logs. 174,299–300; May 22.
Carmel Canning Co., San Francisco, Calif. Canned fish. 176,323; May 22.
Carter Dry Goods Co., Louisville, Ky. Work shirts. 172,511; May 22.
Chef Aluminum Co. (See Jones, Leander C.)
Chippewa Shoe Mfg. Co., Chippewa Falls, Wis. Leather boots and shoes. 172,261; May 22.
Chrobaltic Tool Company, Chicago, Ill. Heat-treating containers. 174,553; May 22.
Class Journal Company, New York, N. Y. Semimonthly publication. 175,385; May 22.
Clegg, Sherman D., doing business as Vinco Herb Company, Dayton, Ohio. Herb tablets for the stomach, liver, bowels, and blood. 175,070; May 22.
Clipper Belt Lacer Company, Grand Rapids, Mich. Memoranda books. 175,301; May 22.
Coleman-Dobson-Cannon Co., Inc., Nashville, Tenn. Periodical issued weekly. 174,558; May 22.
Collier, P. F., & Son Company, New York, N. Y. Periodical issued monthly. 178,165; May 22.
Community Advertising Co. (See Serage, Francis L.)
Concordia Silk Hosiery Company, Philadelphia, Pa. Hosiery. 172,519–20; May 22.
Continental Ampower Company. (See Jester, Jerome K.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cream Balm Company, The, Jersey City, N. J. Medicinal compound for the treatment of catarrhal diseases of the head. 170,624; May 22.
Crocker & Morse, Inc., Bridgewater, Mass. Boots and shoes. 177,169; May 22.
Crown Bottling Works. (See May, C. Edward.)
Crystal Waxing Company, The. (See Shelby Wax Paper Company, assignor.)
Curtis, J. G., Leather Company, Ludlow, Pa. Leather insoles. 174,074; May 22.
Daintimiss Dressmakers. (See Kirschner, M., & Sons.)
Davidson, George, Wick, Scotland. Salted and pickled herrings. 171,204; May 22.
Degerberg, Alfred, doing business as Alfred Degerberg Co., Philadelphia, Pa. Ink for polishing shoes. 163,436; May 22.
Delano, Potter & Co., Inc., Boston, Mass. Tea. 176,256; May 22.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, snap fasteners, and safety pins. 159,351; May 22.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, snap fasteners, safety pins, etc. 161,767; May 22.
Delta Export Lumber Corporation, Memphis, Tenn. Lumber and veneers. 171,207–8; May 22.
Diamond Match Company, The, Chicago, Ill. Matches. 178,896–909; May 22.
Diamond Match Company, The, Chicago, Ill. Matches. 178,912–13; May 22.
Dietz, R. E., Company, New York, N. Y. Oil-burning lanterns and the burners and metal parts thereof. 176,455; May 22.
Dolly Varden Chocolate Company, The, Cincinnati Ohio. Candies. 175,632; May 22.
Douglas, W. L., Shoe Company, Brockton, Mass. Boots and shoes made wholly or in part of leather. 176,331; May 22.
Driefus, Eckstein & King, Inc., New York, N. Y. Men's, women's, and children's knit and flat hosiery. 172,935; May 22.
Dugan & Hudson Co., Rochester, N. Y. Leather boots and shoes. 166,655; May 22.
Eagle, Tea & Coffee Company, Inc., The, New York, N. Y. Coffee and tea. 176,672; May 22.
Economy System Co., Inc., New York, N. Y. Clothes racks and hangers. 174,515; May 22.
Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 173,471; May 22.
Elizabeth Arden. (See Lewis, Florence N.)
Elpho Pharmacal Company. (See Helfand, Leopold E.)
Endel & Peles, New York, N. Y. Straw hats and hats partly of straw. 175,476; May 22.
Erickson, Andrew C., Los Angeles, Calif. Leather boots and shoes. 174,613; May 22.
Etablissements Reynier. (See Reynier & Cie., assignor.)
Eustis, James S., Woodland, Calif. Toasted almonds. 173,885; May 22.
Evans Chemical Works, The, Portland, Oreg. Finger-nail polish, cleaner, and tonic. 175,388; May 22.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Heat and corrosion resisting alloys in the form of castings and forgings. 176,332; May 22.
Fambach, John G., Cleveland, Ohio. Medicinal preparations for nervousness, falling sickness, etc. 169,895; May 22.
Federal Rubber Company of Illinois, The, Chicago, Ill., and Cudahy, Wis. Casings, tires, hose, tubings, reliners, inner tubes, etc., all made wholly or partly of rubber. 170,760; May 22.
Fenimore, George W., doing business as Fenimore Oil Co., Norristown, Pa. Lubricating oils and greases. 165,976; May 22.
Fenimore Oil Co. (See Fenimore, George W.)
Finkelson, Max, doing business as Onyx Blouse Co., New York, N. Y. Boys' blouses. 173,041; May 22.
Fleming, E., & Co., Cambridge, Mass. Radio record books. 177,552; May 22.
Foley & Company, Chicago, Ill. Lemon and vanilla extracts and essence of peppermint flavor. 176,262; May 22.
Fox, Charles K., Inc., Haverhill, Mass. Boots and shoes of leather. 170,574; May 22.
Fox, Charles K., Inc., Haverhill, Mass. Leather intended for use in boots and shoes. 170,575; May 22.
Frankel Bros., New York, N. Y. Men's outer clothing. 172,469; May 22.
Fredrickson Brothers, Cassadaga, N. Y. Churns. 155,813; May 22.
Freeman, Miller, New York, N. Y. Monthly publication. 176,892; May 22.
Fulton Smoked Fish Co., Chicago, Ill. Smoked fish. 176,117; May 22.
Garrett, Ralph C., doing business as Tricco Chemical Co., Detroit, Mich. Preparation for use in the treatment of eczema. 171,268; May 22.
General Water Heater Corporation, Los Angeles, Calif. Water heaters. 176,173; May 22.
Gibson, Geo. R., Co., New York, N. Y. Nail, tooth, hair, cloth, and flesh brushes. 163,979; May 22.
Ginsberg, I., & Bros., New York, N. Y., assignor to Isaac Ginsberg & Brothers, Inc. Women's dresses. 172,671; May 22.
Goff, S. B., & Sons Company, Camden, N. J. Candy. 172,939; May 22.
Goldweb Hat Company, New York, N. Y. Ladies' hats. 176,541; May 22.
Goodson, J. F., & Company, doing business as J. F. Goodson Coffee Company, Morristown, Tenn. Coffee. 172,330; May 22.
Gotham Knitting Mills, New York, N. Y. Sweaters, scarfs, knitted suits and dresses, etc. 173,233; May 22.
Graham Bros. Soap Company, Chicago, Ill. Shampoo. 174,573–4; May 22.
Grand Forks Bottling Works, The, Grand Forks, N. Dak. Ginger ale, cream soda, root beer, and other soft drinks. 176,266; May 22.
Gray Wood Heel Co., Lynn, Mass. Wood heels. 175,143; May 22.
Grennan Cake Corporation, Chicago, Ill. Cakes, cookies, and fried cakes. 153,170; May 22.
Grossman, Julius, Inc., Brooklyn, N. Y. Women's shoes, high and low models. 173,490; May 22.
Grossman Shoe Co., The, Chicago, Ill. Leather boots, shoes, oxfords, and low quarters. 176,267; May 22.
Growers Distilling Co., Woodbine, Md. Chenopodium oil. 174,519; May 22.
Grüneberg, Carl, Bürsten-Fabric Bratislava, Bratislava, Czechoslovakia. Toothbrushes. 178,664; May 22.
Hampshire, F. W., & Co. Ld., Derby, England. Fly swatters and sticky paper. 175,490; May 22.
Hart & Hegeman Mfg. Co., The, Hartford, Conn. Luminous pendants. 171,419; May 22.
Hayward Hosiery Company, Ipswich, Mass. Hosiery. 171,914; May 22.
Heine, L. Allen, doing business as The Heiné Service, Ltd., Louisville, Ky. Periodical publication. 176,828; May 22.
Heitkamp, Elizabeth A., St. Louis, Mo. Hair pomade. 174,777; May 22.
Helfand, Leopold E., doing business as Elpho Pharmacal Company, Philadelphia, Pa. Cold cream. 171,915; May 22.
Heller, B., & Company, Chicago, Ill. Flavoring compound. 172,377–9; May 22.
Heller, B., & Company, Chicago, Ill. Flavoring compound. 172,531; May 22.
Heller, B., & Company, Chicago, Ill. Food flavorings and spices. 172,530; May 22.
Henson-Blair Manufacturing Company, Philadelphia, Pa. Mops. 178,341; May 22.
Herrmann, Adolph S., New York, N. Y. Tablecloths, sheets, pillowcases, napkins. 167,082; May 22.
Highland Lake Paper Company, Walpole, Mass. Sheathing paper, waterproof building paper, roofing paper, etc. 178,610; May 22.
Hill and Loper Company, Incorporated, The, Danbury, Conn. Men's, women's, and children's hats. 158,842; May 22.
Hirsch Bros. & Co., Incorporated, Louisville, Ky. Salad relish. 176,627; May 22.
Holyoke Company, The, Holyoke, Mass. Wires for millinery and personal use and straw braids. 132,740; May 22.
Howland, Louis A., Hollywood, Calif. Photographic reproductions. 177,847; May 22.
Hupfel, Adolph G., Jr., New York, N. Y. Mushroom paste. 172,382; May 22.
Hurley Shoe Co., Rockland, Mass. Shoes. 175,355; May 22.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. 176,129; May 22.
Igoe, James T., Chicago, Ill. Occasional publication. 175,721; May 22.
Implement Age Company, The, Springfield, Ohio. Monthly publication devoted to the form-equipment industry. 177,000; May 22.
Ingersoll Redipoint Company, Inc., New York, N. Y. Pencils, pens, leads, and erasers. 174,452; May 22.
International Motor Company, New York, N. Y. Motor busses. 152,425; May 22.
International Motor Company, New York, N. Y. Cushioned connections for use in vehicles. 168,416; May 22.
International Motor Company, New York, N. Y. Metal parts for cushioned connections in vehicles. 169,213; May 22.
Interstate Paint & Supplies Co. Inc., Buffalo, N. Y. Roofing compounds known as roof preserves and composition roofing material. 172,838; May 22.
James, John, & Sons Limited, Redditch, England. Needles for hand sewing. 178,104; May 22.
Janney, Thomas, Company, Philadelphia, Pa. Shoes. 175,903; May 22.
Jester, Jerome K., doing business as Continental Ampower Company, Atlanta, Ga. Liquid battery charge. 170,434; May 22.
Jones, Leander C., doing business as Chef Aluminum Co., Battle Creek, Mich. Aluminum culinary utensils. 169,907; May 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Jordan Marsh Company, Boston, Mass. Cleaning pads for talking-machine records. 177,977; May 22.
Kajowill Mills, Reading, Pa. Hosiery for ladies. 173,049; May 22.
Kennedy Valve Mfg. Co., The, Elmira, N. Y. Fire hydrants, indicator posts, gate valves, etc. 156,088–9; May 22.
Kirschner, M., & Sons, doing business as Daintimiss Dressmakers, and also doing business as Marjoline Dresses, New York, N. Y. Dresses, capes, sport suits, outer skirts, waists, etc. 176,742; May 22.
Klein, Jack, doing business as J. Klein Co., New York, N. Y. Handkerchiefs. 177,388; May 22.
Knight, Nita G., Boundbrook, N. J. Candy. 162,824; May 22.
Kutz, M., Company, Inc., Atlanta, Ga. Ladies' hats. 175,902; May 22.
Ladwig-Schlueter Co., Milwaukee, Wis. Beverage sold as a soft drink and sirups used in the preparation of same. 178,259; May 22.
Lazarus, Goldberg & Friedman, Inc., New York, N. Y. Boys', students', young men's, and men's suits, knickerbockers, and topcoats. 170,775; May 22.
Leader Iron Works, Decatur, Ill. Tanks. 172,749; May 22.
Lewis & Harris Handwoven Tweed Company Limited, The, Stornaway, Lewis Island, Scotland. Cloths and stuffs of wool, worsted, or hair. 171,131; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Lip paste and pencils. 174,470; May 22.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Rouge and powder. 174,560; May 22.
Liquid Carbonic Company, The, Chicago, Ill. Compound of vegetable gums and sugars for use as an ingredient of ice cream. 176,485; May 22.
Loeb Dress Co. (See Ober, Jacob.)
London Chocolate Company, Limited, The, Stratford, London, England. Chocolates. 138,861; May 22.
Lorraine Manufacturing Company, Pawtucket, R. I. Cotton goods in the piece. 178,747–8; May 22.
McLaurin-Jones Co., Brookfield, Mass. Coated paper to be printed or lithographed. 178,761; May 22.
McWade Tire and Rubber Company, The, Garrettsville, Ohio. Rubber heels. 175,878; May 22.
Mack Battery Company, Los Angeles, Calif. Storage batteries and parts. 169,065; May 22.
Mack, Edward F., New York, N. Y. Advertising posters. 176,682; May 22.
Macy, R. H., & Co., Inc., New York, N. Y. Boys' skating sets. 172,844; May 22.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 158,633; May 22.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 158,936; May 22.
Marjoline Dresses. (See Kirschner, M., & Sons.)
Marvel Tractor Co., The, Columbus, Ohio. Motor-driven farm tractors. 142,798; May 22.
Marvellum Company, The, Holyoke, Mass. Cover paper. 178 856–7; May 22.
May, C. Edward, doing business as Crown Bottling Works, Baltimore, Md. Beverage sold as a soft drink. 178,349; May 22.
Menominee Motor Truck Co., Clintonville, Wis. Motor trucks. 171,647; May 22.
Merikle, Edward D., New York, N. Y. Hosiery. 172,757; May 22.
Merriam, G. & C., Company, Springfield, Mass. Dictionaries. 174,584; May 22.
Merton, Charles S., & Co., East Rutherford, N. J. Men's and boys' hats and caps. 173,654; May 22.
Meyer, Emile, New York, N. Y. Cotton goods in the piece, silk and cotton fabrics and silk goods in the piece. 178,764; May 22.
Midland Brokerage Company, Minneapolis, Minn. Chocolate-lined ice-cream cones and chocolate for lining ice-cream cones. 161,788; May 22.
Milow, R. C., Shoe Co. Inc., Rochester, N. Y. Men's, women's, and children's shoes of leather. 173,713; May 22.
Mission Candy Company, Hollywood and Los Angeles, Calif. Candies. 159,367; May 22.
Modern Pharmacal Co., Inc., New York, N. Y. Malt preparation intended as a general tonic, etc. 177,258; May 22.
Molatch, Allan O., New York, N. Y. Ointment for the cure and alleviation of piles, prolapse, fissure, etc. 174,745; May 22.
Morrison, Florence C., Buffalo, N. Y. Women's hats. 173,199; May 22.
Munzer, E., & Co., Chicago, Ill. Ladies' fabric underwear bloomers. 154,524; May 22.
Nasser and Coleman Company, Cleveland, Ohio. Insect powders or insecticides. 174,744; May 22.
National Shoe Retailers Association of the United States of America Inc., Chicago, Ill. Monthly publication. 175,806; May 22.
New England Confectionery Company, Boston, Mass. Candy. 176,274; May 22.
New England Panama Hat Co., Inc., New York, N. Y. Hats. 176,756; May 22.
New York Law Review Corporation, New York, N. Y. Name of a monthly magazine. 176,032; May 22.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Oils for preserving leathers and neat's-foot oil. 161,375; May 22.
Needlecraft Publishing Company, Augusta, Me. Monthly magazines. 155,444; May 22.
Niles-Bement-Pond Company, New York, N. Y. Machine tools consisting of planers, lathes, and drilling machines. 177,017; May 22.
Norristown Herald, Inc., Norristown, Pa. Periodical publication published daily. 176,910; May 22.
Ober, Jacob, doing business as Loeb Dress Co., New York, N. Y. Dresses for girls, juniors, and misses. 168,848; May 22.
Oklahoma Publishing Company, The, Oklahoma, Okla. Monthly magazine. 175,265; May 22.
Olmsted, Charles, San Francisco, Calif. Candied almonds. 173,202; May 22.
Oneal, J. W., Chemical Co., Adena, Ohio. Ointment used for colds, headache, sore throat, etc. 174,257; May 22.
Onyx Blouse Co. (See Finkelson, Max.)
Pachner, I., & Son, Inc., New York, N. Y. Articles of men's and ladies' apparel. 169,737½; May 22.
Palmer Photoplay Corporation, Los Angeles, Calif. Prints and publications. 169,645; May 22.
Pan-American Furniture Factory, Inc., New Orleans, La. Upholstered household furniture. 174,149; May 22.
Parker, C. W., Co., Inc., Des Moines, Iowa. Automobile polish and cleaner. 177,320; May 22.
Parks & Parks, Inc., Troy, N. Y. Shoe daubers. 177,322; May 22.
Peerless Food Products Co. Inc., Long Island City, N. Y. Preserved cucumbers. 176,362; May 22.
Peltz, Bohrman, Furse, Inc., New York, N. Y. Umbrellas. 173,979; May 22.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's hats. 176,759; May 22.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' caps. 176,760; May 22.
Periodical Publishing Company, Grand Rapids, Mich. Quarterly publication. 177,403; May 22.
Perkins Marine Lamp Corporation, New York and Brooklyn, N. Y. Lamps, lanterns, etc. 139,369; May 22.
Peterson Paper Company, The, Davenport, Iowa. Toilet paper. 176,501; May 22.
Petroleum Publishing Company, Fort Worth, Tex. Weekly periodical. 176,278; May 22.
Phillips-Jones Corporation, New York, N. Y. Shirts, nightshirts, pyjamas, and boys' blouses. 173,145; May 22.
Phoenix Ice Machine Co., The, Cleveland, Ohio. Ice and refrigerating machinery, ammonia compressors, receivers, and condensers, etc. 170,785; May 22.
Pictorial Review Company, The, New York, N. Y. Dress patterns. 174,526; May 22.
Pidgeon, C. T., Millinery Co., Fort Wayne, Ind. Hats for women. 175,103; May 22.
Planten, H., & Son, Inc., Brooklyn, N. Y. Haarlem oil in capsules. 165,204; May 22.
Pond, E. K., Company, Chicago, Ill. Peanut butter. 176,427; May 22.
Porzellanfabrik, Ph. Rosenthal & Co., A. G., Berlin, Germany. China. 171,103; May 22.
Preis, J. J., & Company, New York, N. Y. Boys' outer garments. 172,490; May 22.
Pup Toys Company, The, Chicago, Ill. Candlesticks, incense burners, and lamps. 175,158; May 22.
Pyramid Products Co. (See Beach, Albert H.)
Raguet, P., Fils & J. Vignes, Troyes, France. Hosiery and knit goods. 172,957–8; May 22.
Rauch & Lang, Inc., Chicopee Falls, Mass. Electrically-propelled road vehicles, not including trucks and tractors. 136,726; May 22.
Reach, Abraham L., doing business as A. L. Reach Textile Co., New York, N. Y. Furniture and furniture van-pads. 177,244; May 22.
Reed & Barton Corporation, Taunton, Mass. Alcohol fuel cubes. 145,713; May 22.
Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 174,527; May 22.
Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 175,164; May 22.
Reliable Household Specialties Mfg. Co. (See Bernstein, Samuel.)
Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Leather gloves. 143,409; May 22.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 154,760; May 22.
Roessel, Louis, & Co. Inc., Hazleton, Pa., and New York, N. Y. Crêpes and silk goods in the piece and velling. 174,529; May 22.
Rubin Brothers, New York, N. Y. Shoes, slippers, spats. 172,559; May 22.
S. & V. Company, Inc., New York, N. Y. Fabric gloves. 170,225; May 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sampedro, Anibal, Mexico, Mexico. Perfumes and hair tonics. 171,138; May 22.
Satsuma Orange & Pecan Groves Company, Inc., Mobile and Satsuma, Ala. Fresh fruit—viz, satsuma. 176,047; May 22.
Schwartz, Carl, New York, N. Y. Men's collars. 172,359; May 22.
Sears, Roebuck and Co., Chicago, Ill. Talcum powders. 175,275; May 22.
Serage, Francis L., doing business as Community Advertising Co., Columbus, Ohio. Calendars published annually. 176,285; May 22.
Shafarman, L., Inc., New York, N. Y. Headwear—namely, soft and stiff hats for men. 176,921; May 22.
Shelby Wax Paper Company, The, Shelby, assignor to The Crystal Waxing Company, Middletown, Ohio. Sheets of waxed paper and packages. 171,286; May 22.
Silz, A., Inc., New York, N. Y. Canned plum pudding. 171,141; May 22.
Sipe, James B., & Co., Inc., Bridgeville, Pa. Plastic or semiplastic cement for protecting iron. 175,218; May 22.
Smith, C. B., & Bro. (See Smith, Francis S.)
Smith, Charles T., Company, Inc., New Bedford, Mass. Beverages sold as soft drinks. 176,223; May 22.
Smith, Francis S., doing business as C. B. Smith & Bro., Boston, Mass. Coffee. 153,480; May 22.
Smith, Kline & French Co., Philadelphia, Pa. Antiseptic antiphlogistic ointment. 175,169; May 22.
Solon Palmer, New York, N. Y. Perfume, toilet water, and complexion powder. 175,368; May 22.
Solvine Chemical Company. (See Binkert, Damon A.)
Standard Manufacturing Company, Erie, Pa. Trousers. 154,335; May 22.
Ste. Anme. du Fibrociment et des Revetements Elo, Poissy, France. Building materials composed of a compound of fiber and cement. 159,540; May 22.
Steam Power Publishing Corporation, Chicago, Ill. Monthly magazine. 160,726; May 22.
Sterling Laboratory, The. (See Western Wholesale Drug Co.)
Sterling Top & Equipment Company, Inc., Jersey City, N. J., and New York, N. Y. Automobile tops. 175,573; May 22.
Stevens & Company, Inc., Providence, R. I. Ophthalmic mountings and parts thereof. 174,540; May 22.
Stix, Louis, Co., The, Cincinnati, Ohio, and New York, N. Y. Bleached cotton piece goods. 178,637–8; May 22.
Stix, Louis, Co., The, Cincinnati, Ohio, and New York, N. Y. Brown cottons in the piece. 178,639; May 22.
Stix, Louis, Co., The, Cincinnati, Ohio, and New York, N. Y. Bleached cotton piece goods. 178,640; May 22.
Stuart & Emerson, Lyndonville, Vt. Ice cream. 168,130; May 22.
Sun-Herald Corporation, The, New York, N. Y. Cartoon serials. 176,370; May 22.
Sunray Stove Company, The, Delaware, Ohio. Gas ranges and heaters. 178,071; May 22.
Superior Flake Graphite Company, Chicago, Ill. Graphite. 171,968; May 22.
Surbrug Chocolate Corporation. (See Surbrug, John W.)
Surbrug, John W., doing business as Surbrug Chocolate Corporation, New York, N. Y. Candy and sugared assorted nuts. 169,962; May 22.
Suspender, W. B., House. (See Wechsler, Isaac.)
Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. 175,575; May 22.
Thompson, A., Co., The, Amsterdam, N. Y. Hosiery, knitted underwear, sweaters. 172,779–85; May 22.
Times Printing Company of Seattle, Seattle, Wash. Column of news in newspapers. 175,416; May 22.
Times Printing Company of Seattle, Seattle, Wash. Newspaper supplement. 177,704–5; May 22.
Trachtenberg, Harry, doing business as Arlon Shirt Company, New York, N. Y. Men's dress, negligee, and work shirts. 170,226; May 22.
Travis, Romaine & Jelle, Inc., New York, N. Y. Silk, cotton, etc., piece goods and combinations thereof. 174,544; May 22.
Tribune Company, The, Chicago, Ill. Newspaper and newspaper supplements published daily. 177,706; May 22.
Tricco Chemical Co. (See Garrett, Ralph C.)
United States Envelope Company, Springfield, Mass. Envelopes. 178,581; May 22.
United Turkey Red Company, Limited, The, Glasgow, Scotland. Outer garments, headwear, underwear, work, negligee, and dress shirts, and blouses. 162,787; May 22.
Velvet Oil Company, The, Toledo, Ohio. Motor oils. 178,684; May 22.
Vernon's, William, Sons & Co., Philadelphia, Pa. Hosiery. 172,788; May 22.
Vinco Herb Company. (See Clegg, Sherman D.)
Vivaudou, V., Inc., New York, N. Y. Face powder and creams, perfumes, etc. 175,284–5; May 22.
Vogt Brothers Mfg. Co., Louisville, Ky. Refrigerating machinery and refrigerators. 160,218; May 22.
Walnut Growers Spray Manufacturing Company, Los Angeles, Calif. Insecticide. 165,435; May 22.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Hypnotic medicines. 174,547; May 22.
Watson, Dan L., Georgiana, Ala. Medicine for kidney troubles, rheumatism, headaches, etc. 143,466; May 22.
Wechsler, Isaac, doing business as W. B. Suspender House, New York, N. Y. Suspenders, belts, and garters. 157,704; May 22.
Weiner Brothers, Inc., New York, N. Y. Cotton piece goods. 175,583; May 22.
Western Bottle Manufacturing Company, at times doing business as The Western Company, Chicago, Ill. Hair nets. 176,142; May 22.
Western Electric Company, New York, N. Y. Magnetic alloys. 172,248; May 22.
Western Wholesale Drug Co., also doing business as The Sterling Laboratory, Los Angeles, Calif. Camphorated white liniment, larkspur, cedar flakes, sea salt, etc. 160,256; May 22.
Westmoreland Candy Company, Richmond, Va. Candy. 154,677; May 22.
White, James F., & Co., Inc., New York, N. Y. Cotton, woolen, and silk piece goods and combinations thereof. 178,648; May 22.
White Tar Company, The, New York, N. Y. Paper bags and chests. 175,447; May 22.
Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. 178,888; May 22.
Whitman, Samuel, New York, N. Y. Ladies' hats. 175,900; May 22.
Wichert Inc., Brooklyn, N. Y. Boots, shoes, and slippers. 174,806; May 22.
Winberg, W. Wm., Wilmette, Ill. Silver polish, straw hat and fabric cleaners. 145,379; May 22.
Wolfe Leather Co., Boston, Mass. Leathers. 176,392; May 22.
Woman's World Magazine Co., Inc., Chicago, Ill. Quarterly magazine. 177,342; May 22.
Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 171,976; May 22.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Ammonia. C. M. Kimball Company. 168,394; May 22; Serial No. 171,805; published Feb. 20, 1923.
Apples, Fresh. Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc. 168,354; May 22; Serial No. 166,518; published Feb. 20, 1923.
Apples, plums, cherries, grapes, pears and peaches in their natural state. F. M. Wilson. 168,359; May 22; Serial No. 165,470; published Feb. 20, 1923.
Arch supporters. Federal Arch-Lift Manufacturing Company. 168,397; May 22; Serial No. 171,731; published Feb. 20, 1923.
Arch supports and elastic bandages. Hochschild, Kohn & Co. 168,508; May 22.
Bags, Cloth mailing. American Sack Co. 168,454; May 22; Serial No. 173,901; published Feb. 27, 1923.
Bags, Traveling. New Process Company. 168,493–4; May 22.
Baits or lures, Fish. James Heddon's Sons. 168,461; May 22; Serial No. 173,111; published Feb. 20, 1923.
Baking powder. Bement-Rea Co. 168,378; May 22; Serial No. 169,393; published Feb. 20, 1923.
Bath salt. Sea-Dip Company. 168,401; May 22; Serial No. 171,659; published Feb. 20, 1923.
Bedclothes protector. E. J. McKinney. 168,430; May 22; Serial No. 172,003; published Feb. 20, 1923.
Beer, malt tonic and malt beverages and malt sirups. San Francisco Breweries, Ltd. 168,331; May 22; Serial No. 167,367; published Feb. 27, 1923.
Belting, Fabric. Maxtic Belt & Packing Co. 168,482; May 22; Serial No. 168,479; published Feb. 20, 1923.
Belting, Leather and cotton. Peerless Belting Company. 168,523–4; May 22.
Belts, shoes, and slippers. American Rubber & Tire Co. 168,338; May 22; Serial No. 168,338; published Feb. 20, 1923.
Beverage made of fruits, nuts, and grain, Food. Bartlett Nu Products Corporation. 168,364; May 22; Serial No. 164,987; published Feb. 27, 1923.
Beverage or root beer. Nonalcoholic. Parker-Browne Company. 168,489; May 22.
Beverage sold as a soft drink, Fruit. United Cigar Stores Company of America. 168,400; May 22; Serial No. 171,672; published Feb. 20, 1923.

Beverages, Concentrated preparation for preparing nonalcoholic, maltless. Mervine Mfg. Co. 168,476; May 22; Serial No. 168,160; published Feb. 20, 1923.
Beverages sold as soft drinks and sirups for making the same. N. K. Ross. 168,421; May 22; Serial No. 172,441; published Feb. 20, 1923.
Bibs, infants' pants, waterproof aprons, Baby. Mills Brothers Company. 168,333; May 22; Serial No. 161,935; published Feb. 20, 1923.
Bloomers. S. Gelarie. 168,487; May 22.
Blouses, dresses, skirts, suits, and sweaters. L. A. Wolin Company. 168,344; May 22; Serial No. 149,875; published Feb. 13, 1923.
Bottles, Package of sterilized glass. Owens Bottle Company. 168,488; May 22.
Boxes, Collection. Central Committee Knesseth Israel of Jerusalem, Palestine, Inc. 168,379; May 22; Serial No. 169,395; published Feb. 20, 1923.
Boxlike receptacles. H. B. Loeb. 168,383; May 22; Serial No. 169,489; published Feb. 20, 1923.
Brick, fire-brick patching material and plastic furnace lining, Fire. A. P. Green Fire Brick Co. 168,512; May 22.
Candies. E. H. Ward. 168,514; May 22.
Candy. Stevens-Etter. 168,537; May 22.
Candy, Stick. H. Lowenthal. 168,388; May 22; Serial No. 169,640; published Feb. 27, 1923.
Candy, Whipped-cream. W. A. Veilguth. 168,370; May 22; Serial No. 164,207; published Jan. 16, 1923.
Canned and dehydrated fruits and vegetables. King's Food Products Co. 168,361; May 22; Serial No. 165,391; published Feb. 27, 1923.
Canned and dried fruits. General Commercial Company. 168,375–6; May 22; Serial No. 169,291–2; published Feb. 27, 1923.
Canned corn. Sussman, Wormser & Co. 168,500; May 22.
Canned fruits. Kings County Packing Co. 168,480; May 22; Serial No. 168,419; published Feb. 20, 1923.
Canned fruits. Olympia Canning Company. 168,535; May 22.
Canned fruits. Olympia Canning Company. 168,374; May 22; Serial No. 169,076; published Feb. 27, 1923.
Canned Hungarian goulash. J. G. Wurm. 168,468; May 22; Serial No. 167,278; published Feb. 27, 1923.
Canned pineapple. Henry P. Baldwin Ltd. 168,536; May 22.
Canned salmon. Sea Coast Packing Co. 168,483; May 22; Serial No. 168,646; published Feb. 20, 1923.
Canned vegetables. Smith-Yingling Company. 168,365; May 22; Serial No. 164,780; published Feb. 27, 1923.
Canned vegetables. Waupun Canning Co. 168,475; May 22; Serial No. 168,134; published Feb. 20, 1923.
Casters. Faultless Caster Co. 168,481; May 22; Serial No. 168,463; published Feb. 20, 1923.
Cathartic and laxative preparation. Bristol-Myers Company. 168,407; May 22; Serial No. 171,441; published Feb. 20, 1923.
Cigarettes. Ardath Tobacco Company. 168,432; May 22; Serial No. 171,982; published Feb. 20, 1923.
Cigarettes. G. A. Georgopulo & Co. 168,315; May 22; Serial No. 168,260; published Feb. 27, 1923.
Cigarette holders. Fedco Sales Company. 168,485; May 22; Serial No. 168,760; published Feb. 20, 1923.
Clocks. American Wholesale Corporation (Baltimore Bargain House). 168,413; May 22; Serial No. 172,819; published Feb. 20, 1923.
Clothing. Indianapolis Tent & Awning Company. 168,385; May 22; Serial No. 169,595; published Feb. 20, 1923.
Coats. Eaton Rapids Woolen Mills. 168,527; May 22.
Coats for ladies and misses. John & James Dobson, Inc. 168,329; May 22; Serial No. 165,289; published Jan. 2, 1923.
Coff-O-Malt, a substitute for coffee. L. A. McCoy. 168,334; May 22; Serial No. 161,497; published Feb. 20, 1923.
Cooling containers. Glacifer Company. 168,345; May 22; Serial No. 148,023; published Feb. 20, 1923.
Corsets, waists, girdles, and corset combinations. Birdsey Somers Company. 168,323; May 22; Serial No. 167,221; published Jan. 30, 1923.
Cotton piece goods. Hyman Bauman & Co. 168,460; May 22; Serial No. 173,275; published Feb. 20, 1923.
Cotton piece goods. Ridley Watts & Co. 168,433; May 22; Serial No. 171,190; published Feb. 20, 1923.
Cream, Face. F. N. Lewis. 168,496; May 22.
Cream, Skin-cleansing. F. N. Lewis. 168,498; May 22.
Cream soda, birch beer, ginger ale, etc. Country Club Soda Co. 168,458; May 22; Serial No. 173,406; published Feb. 20, 1923.
Dental plates, Rubber for use in making. E. J. McCormick Rubber Co. 168,491; May 22.
Deodorants. Elmo, Inc. 168,410; May 22; Serial No. 171,352; published Feb. 20, 1923.
Depilatories. F. N. Lewis. 168,497; May 22.
Dresses and sacks, boudoir caps, fancy knit sweaters, etc., Ladies' and children's. S. M. & R. Co. Inc. 168,350; May 22; Serial No. 130,246; published Apr. 11, 1922.
Dresses, bungalow aprons, bathrobes, and kimonos, Ladies'. Hamburger Bros. 169,391; May 22; Serial No. 169,901; published Feb. 13, 1923.
Dye for furs, Chemical. A. Kosofsky. 168,503; May 22.
Effervescing compounds used as a blood salts, Granulated. R. A. B. Hatch. 168,449; May 22; Serial No. 170,291; published Feb. 20, 1923.
Electrical resistances. Post-Glover Electric Company. 168,414; May 22; Serial No. 172,764; published Feb. 20, 1923.
Engines, Gasoline strainers for internal-combustion. Mile-O-More Company. 168,442; May 22; Serial No. 170,659; published Feb. 20, 1923.
Fiber board. M. Chew. 168,371; May 22; Serial No. 163,324; published Feb. 13, 1923.
Firepot repair parts. J. A. Sexauer Mfg. Co. 168,516; May 22.
Flavoring extracts, Food-. Foote & Jenks. 168,380; May 22; Serial No. 169,850; published Feb. 27, 1923.
Flavoring extracts, Food-. W. F. Peacock. 168,471; May 22; Serial No. 167,735; published Feb. 27, 1923.
Foods and ingredients of foods. Queensland Meat Export Company. 168,352; May 22; Serial No. 122,405; published Feb. 27, 1923.
Footballs, football bladders, inflators, hip pads, etc. James W. Brine Company. 168,390; May 22; Serial No. 169,886; published Feb. 20, 1923.
Fountains, Poultry. A. M. Malouf. 168,515; May 22.
Frocks and aprons, House. Morgan-Anderson Company. 168,386; May 22; Serial No. 169,602; published Feb. 20, 1923.
Fruit, Fresh citrous. H. P. Hansen. 168,525; May 22.
Fruits and fresh vegetables, Fresh citrous and deciduous. R. Di Giorgio. 168,363; May 22; Serial No. 165,354; published Feb. 27, 1923.
Fruits and fresh vegetables, Fresh deciduous. W. R. Parvin. 168,479; May 22; Serial No. 168,373; published Feb. 20, 1923.
Fruits, Dried and canned. California Fruit Selling Company. 168,529; May 22.
Fruits, Fresh citrous. R. Krasnow & Sons, Inc. 168,505; May 22.
Fur coats, Women's. Fried Engel & Company. 168,318; May 22; Serial No. 168,214; published Jan. 9, 1923.
Fur garments. Brandenburg & Brandenburg. 168,336; May 22; Serial No. 160,993; published Feb. 20, 1923.
Furnaces, grate frames, grate bars, etc., Coal, wood, gas, and oil heating. Hall-Neal Furnace Company. 168,465; May 22; Serial No. 143,864; published July 12, 1921.
Game played with cards, game toys, and sporting goods, Table. A. L. R. Johnson. 168,415; May 22; Serial No. 172,746; published Feb. 20, 1923.
Garments, Men's and young men's. Style-Center Tailoring Company. 168,324; May 22; Serial No. 166,410; published Dec. 19, 1922.
Gasoline, kerosene, naphtha, lubricating oil, etc. United Oil Company. 168,358; May 22; Serial No. 165,574; published Feb. 20, 1923.
Glass, Mirror and plate. Hagemann Glass Co. 168,472; May 22; Serial No. 167,872; published Feb. 20, 1923.
Gloves, Fabric. Manne & Weill. 168,530; May 22.
Grapes, Fresh. E. E. Morse. 168,469; May 22; Serial No. 167,307; published Feb. 27, 1923.
Grapes, Fresh. Sierra Vista Vineyard Corporation. 168,377; May 22; Serial No. 169,329; published Feb. 27, 1923.
Gum, Chewing. Hershey Chocolate Company. 168,518; May 22.
Hair dressing. Jerico Co. 168,411; May 22; Serial No. 171,324; published Feb. 20, 1923.
Hair driers, toasters, and waffle irons, Electrically-operated. Fitzgerald Manufacturing Company. 168,417; May 22; Serial No. 172,591; published Feb. 20, 1923.
Hair restorer and tonic. R. H. Macy & Co. 168,404; May 22; Serial No. 171,542; published Feb. 20, 1923.
Hair tonic. L. Philippe. 168,444; May 22; Serial No. 170,541; published Feb. 20, 1923.
Hair tonic. V. V. Williams. 168,406; May 22; Serial No. 171,438; published Feb. 20, 1923.
Harmonicas, Mouth. M. Hohner. 168,408–9; May 22; Serial Nos. 171,420–1; published Feb. 20, 1923.
Hats, Ladies'. J. Trinner. 168,313; May 22; Serial No. 168,696; published Jan. 30, 1923.
Hats, Misses' and children's. Garner Bros. 168,332; May 22; Serial No. 168,715; published Jan. 30, 1923.
Heaters and furnaces, Warm-air. Success Heater and Manufacturing Company. 168,521; May 22.
Heaters, Water. E. R. Parker. 168,513; May 22.
Hosiery. Dreifus, Eckstein & King, Inc. 168,382; May 22; Serial No. 169,475; published Feb. 20, 1923.
Hosiery. Laskin-Swatt Co. 168,452; May 22; Serial No. 170,144; published Feb. 20, 1923.
Hosiery. Powell Knitting Company. 168,356; May 22; Serial No. 166,247; published Feb. 20, 1923.
Hosiery and men's and women's knitted underwear. J. A. Kronovet. 168,326; May 22; Serial No. 165,959; published Jan. 2, 1923.
Ink for stenciling, Waterproof. E. Enzler. 168,441; May 22; Serial No. 170,813; published Feb. 20, 1923.
Knickerbockers. Morris Hoffman Company. 168,451; May 22; Serial No. 170,192; published Feb. 20, 1923.
Knickerbockers and sport riding and golf trousers. Max B. Brummer & Son, Inc. 168,392; May 22; Serial No. 169,947; published Feb. 20, 1923.
Knit underwear, Ladies'. California Underwear and Hosiery Mills. 168,387; May 22; Serial No. 169,616; published Feb. 20, 1923.

Knitted sweaters and caps. Keller Knitting Company. 168,314; May 22; Serial No. 168,530; published Dec. 19, 1922.
Lamp cord. Trebor Manufacturing Co. 168,462; May 22; Serial No. 173,056; published Feb. 20, 1923.
Lamp shades made of fabric. Daison Manufacturing Co. 168,528; May 22.
Lamp standards, fruit bowls, candlesticks, comports, etc. Superior Silver Company. 168,331; May 22; Serial No. 169,466; published Feb. 20, 1923.
Lamps, lanterns, etc., Portable gasoline. Coleman Lamp Co. 168,517; May 22.
Laxative, Antiseptic. Partola Distributing Company. 168,322; May 22; Serial No. 167,532; published Feb. 20, 1923.
Leather. Monarch Leather Company. 168,317; May 22; Serial No. 168,222; published Dec. 19, 1923.
Lime. National Lime & Stone Company. 168,450; May 22; Serial No. 170,207; published Jan. 30, 1923.
Liniment for bronchial colds and congested condition of the lungs, lumbago, etc. T. Montcalm. 168,393; May 22; Serial No. 171,813; published Feb. 20, 1923.
Lotion for deodorizing offensive and excessive perspiration, Toilet. H. B. Dismand. 168,380; May 22; Serial No. 169,437; published Feb. 20, 1923.
Macaroni, spaghetti, noodles, and short paste stuff. Liberty Macaroni Manufacturing Co. 168,343; May 22; Serial No. 153,609; published Feb. 27, 1923.
Matches. Standard Match Co. 168,435; May 22; Serial No. 171,045; published Feb. 20, 1923.
Mayonnaise dressing. H. A. Orthmann. 168,470; May 22; Serial No. 167,582; published Feb. 13, 1923.
Medical preparation for the treatment of high blood pressure. J. V. McFarland. 168,448; May 22; Serial No. 170,494; published Feb. 20, 1923.
Medicine for the treatment of stomach, etc., and an ointment. E. S. Vawter. 168,396; May 22; Serial No. 171,746; published Feb. 20, 1923.
Mercurox used in the treatment of trachoma. C. E. Hoffman. 168,510; May 22.
Middy blouses, overblouses, smocks, tuxedos, etc. Sailor Maid Middy Co. 168,327; May 22; Serial No. 165,727; published Nov. 14, 1922.
Mouth wash. F. W. Schoonmaker Inc. 168,439; May 22; Serial No. 170,994; published Feb. 20, 1923.
Nail polish and hand cream. F. N. Lewis. 168,499; May 22.
Newspapers, Contest, a feature in. Public Ledger Company. 168,446; May 22; Serial No. 170,505; published Feb. 20, 1923.
Oil for lubricating purposes, Cylinder and automobile. Marine Oil Company. 168,355; May 22; Serial No. 166,384; published Feb. 20, 1923.
Oil, Olive. Patrician Olive Oil Corp. 168,360; May 22; Serial No. 165,460; published Feb. 13, 1923.
Oil shampoo, Coconut. Brock Carlson Laboratories, Inc. 168,484; May 22; Serial No. 168,752; published Feb. 20, 1923.
Oils, Lubricating. Gilmore Petroleum Company. 168,453; May 22; Serial No. 173,634; published Feb. 20, 1923.
Ointment for treatment of rheumatism, neuralgia, acute congestion, etc. L. K. Strain. 168,412; May 22; Serial No. 171,822; published Feb. 20, 1923.
Overall or combination suits, One-piece. H. Lemoine. 168,321; May 22; Serial No. 167,644; published Feb. 13, 1923.
Overalls and coveralls, Men's and boys'. Lindeke, Warner & Sons, Incorporated. 168,330; May 22; Serial No. 165,026; published Oct. 31, 1922.
Overcoats, trousers, and suits, Men's. I. & S. Ring Company. 168,467; May 22; Serial No. 167,068; published Feb. 20, 1923.
Paint, Japans, stains, etc. Sherwin-Williams Company. 168,347; May 22; Serial No. 136,241; published Feb. 20, 1923.
Paint products, Drier for. Sherwin-Williams Company. 168,455; May 22; Serial No. 173,581; Feb. 20, 1923.
Paints and paint enamels. California Paint Company. 168,506; May 22.
Paints, varnishes, enamels, colors, etc. W. B. Wheeler. 168,477; May 22; Serial No. 168,232; published Feb. 20, 1923.
Paper, Bond, ledger, and writing. Poland Paper Company. 168,419; May 22; Serial No. 172,489; published Feb. 6, 1923.
Paper, Bond writing and printing. Collins Mfg. Co. 168,534; May 22.
Paper, Ledger writing and printing. Collins Mfg. Co. 168,531-3; May 22.
Pearls. N. L. Blanston. 168,443; May 22; Serial No. 170,614; published Feb. 20, 1923.
Perfumes, toilet waters, face and talcum powders, etc. Societe Anonyme Parfumerie Violet. 168,437; May 22; Serial No. 171,042; published Feb. 20, 1923.
Pharmaceutical product used in the treatment of poisoning, burns, etc. L. A. Marsh. 168,447; May 22; Serial No. 170,500; published Feb. 20, 1923.
Pianos and phonographs. May Department Stores Company. 168,423; May 22; Serial No. 172,385; published Feb. 20, 1923.
Plant food. T. W. Wood & Sons. 168,427; May 22; Serial No. 172,251; published Feb. 20, 1923.
Plasters, Foot-warming. Deane Plaster Co. 168,504; May 22.
Pocketbooks, purses, cardcases, tourists' and traveling cases, etc. Calhoun, Robbins & Co. 168,428; May 22; Serial No. 172,204; published Feb. 20, 1923.
Portfolios. Mochar Leather Goods Corporation. 168,507; May 22.
Powder, Foot. W. L. Purcell. 168,368; May 22; Serial No. 164,603; published Oct. 10, 1922.
Powder, rouge, and lip sticks. F. N. Lewis. 168,495; May 22.
Powder, rouge, and lip sticks. F. N. Lewis. 168,501; May 22.
Preparation for eczema, tetter, and itch. Charlerol Laboratories, Inc. 168,340; May 22; Serial No. 155,047; published Feb. 20, 1922.
Preparation for eczema, salt rheum, impetigo, etc. Nolan Co. 168,445; May 22; Serial No. 170,535; published Feb. 20, 1923.
Putty. Allen Paint & Putty Works. 168,462-4; May 22; Serial Nos. 172,968-9; published Feb. 20, 1923.
Radio apparatus. Victor Radio Corporation. 168,431; May 22; Serial No. 172,137; published Feb. 20, 1923.
Radiator cement. A. D. Starr. 168,436; May 22; Serial No. 171,044; published Feb. 20, 1923.
Rheostats. Malone-Lemmon Laboratories. 168,422; May 22; Serial No. 172,424; published Feb. 20, 1923.
Roofing, Asphalt. Apco Asphalt Roofing Co. 168,526; May 22.
Rouge and powder. F. N. Lewis. 168,500; May 22.
Rubber plates or pads for attachment to the soles of boots and shoes, India-. Phillips' Patents Limited. 168,316; May 22; Serial No. 168,234; published Nov. 14, 1922.
Rugs and the like, Corner attachments for. Klearflax Linen Rug Company. 168,522; May 22.
Rugs, Wool. Philadelphia Rug Mills, Inc. 168,403; May 22; Serial No. 171,549; published Feb. 20, 1923.
Salads and sandwiches, Dressing for. Fritz Helm & Son. 168,478; May 22; Serial No. 168,262; published Feb. 20, 1923.
Salts, cream tartar, spirits of camphor, etc., Epsom. Worden Grocer Company. 168,346; May 22; Serial No. 145,375; published Feb. 20, 1923.
Salve or ointments and oils as remedial agents. E. B. Knight. 168,434; May 22; Serial No. 171,176; published Feb. 20, 1923.
Score sheets and pads, Bridge. A. L. Trowbridge. 168,456; May 22; Serial No. 173,452; published Feb. 20, 1923.
Seeds and seed grains, Grass or field. H. E. Conklin. 168,325; May 22; Serial No. 166,345; published Dec. 19, 1922.
Shingles, cements, plaster, roofing, shingles, etc., Asphalt. Fries, Beall & Sharp Co. 168,384; May 22; Serial No. 169,583; published Feb. 13, 1923.
Shirts, Men's and boys' dress, negligee, and work. J. D. Silberstein & Sons, Inc. 168,328; May 22; Serial No. 165,566; published Nov. 7, 1922.
Shirts, overalls, garment supporters, Work and dress. Washington Manufacturing Co. 168,367; May 22; Serial No. 164,620; published Feb. 13, 1923.
Shirts, Youths' dress, negligee, and work. Kaynee Company. 168,351; May 22. Serial No. 126,223; published Feb. 13, 1923.
Shoes. Rubin Shoe Co. 168,369; May 22; Serial No. 164,515; published Feb. 27, 1923.
Shoes, Leather. Rubin Shoe Co. 168,353; May 22; Serial No. 164,994; published Mar. 6, 1923.
Shoes, oxfords, pumps and slippers, Welt and turn. Elkin Turn Shoe Company. 168,310; May 22; Serial No. 167,804; published Feb. 27, 1923.
Shortening compound. Cudahy Packing Company. 168,335; May 22; Serial No. 161,031; published Feb. 27, 1923.
Sirup for food purposes, Malt. Popel-Giller Co. 168,362; May 22; Serial No. 165,412; published Feb. 27, 1923.
Soap. Remmers Soap Company. 168,402; May 22; Serial No. 171,551; published Feb. 20, 1923.
Soap, Shampoo. Geo. A. Schmidt & Co. 168,373; May 22; Serial No. 168,943; published Feb. 20, 1923.
Soap, soap cream and paste. Tarratine Manufacturing Co. 168,429; May 22; Serial No. 172,189; published Feb. 20, 1923.
Soda, Sesquicarbonate of. Solway Process Company. 168,395; May 22; Serial No. 171,768; published Feb. 20, 1923.
Spices. Quality Coffee & Tea Co. 168,372; May 22; Serial No. 162,054; published Feb. 20, 1923.
Sulphur, Agricultural. San Francisco Sulphur Co. 168,348; May 22; Serial No. 134,438; published Feb. 20, 1923.
Syringes. Frederick Pfeiffer & Co. 168,416; May 22; Serial No. 172,685; published Feb. 20, 1923.
Tablet Tonic and laxative. Alpha Chemical Company. 168,341; May 22; Serial No. 154,468; published Feb. 20, 1923.
Talking-machine needles. H. J. Wenglein's Norica- & Herold-Werke Nürnberg-Schwabacher Nadelfabriken, G. m. b. H. 168,366; May 22; Serial No. 164,621; published Feb. 20, 1923.
Tires and tubes, Rubber. C. Kenyon Company. 168,357; May 22; Serial No. 165,960; published Feb. 20, 1923.
Tires, Automobile. Western Rubber Company. 168,520; May 22.

Tomato catchup, tomato purée, chili sauce, and cocktail tomato catchup. Knight Packing Company. 168,492; May 22.
Tonics, Blood stream. J. G. Munsell. 168,511; May 22.
Tonics, General. P. Schier. 168,349; May 22; Serial No. 138,850; published Feb. 20, 1923.
Tooth enamel. A. P. Loesberg. 168,502; May 22.
Toy insect. A. M. Hewitt. 168,320; May 22; Serial No. 167,774; published Feb. 27, 1923.
Truss. P. J. Mahan. 168,490; May 22.
Twine and household cord. Providence Paper Co. 168,459; May 22; Serial No. 173,363; published Feb. 20, 1923.
Type, halftone cuts, wood type, electrotypes, and patent blocks, Washes for cleaning. American Steel Chase Co. 168,474; May 22; Serial No. 167,969; published Feb. 20, 1923.
Typewriter ribbons and carbon paper. Columbia Ribbon & Carbon Mfg. Co. 168,426; May 22; Serial No. 172,320; published Feb. 20, 1923.
Umbrellas. Paperbrella Co. 168,339; May 22; Serial No. 155,697; published Feb. 6, 1923.
United Retail Chemists Corporation. (See United Cigar Stores Company of America, assignor.)
Vanity cases. A. Schocket. 168,337; May 22; Serial No. 158,585; published Feb. 20, 1923.
Varnishes. Martin Varnish Company. 168,478; May 22; Serial No. 167,882; published Feb. 20, 1923.
Vegetable preparation for regulating the stomach and bowels of infants and children. Centaur Company. 168,319; May 22.
Vibrators, Electrically-operated. Fitzgerald Manufacturing Company. 168,418; May 22; Serial No. 172,590; published Feb. 20, 1923.
Wash cloth and towel, Textile. Embourg Textile Co. 168,438; May 22; Serial No. 171,013; published Feb. 20, 1923.
Washing and ironing machines. Russ Manufacturing Company. 168,405; May 22; Serial No. 171,472; published Feb. 20, 1923.
Washing compounds. C. A. Winter. 168,420; May 22; Serial No. 172,500; published Feb. 20, 1923.
Washing machines for the washing of dishes, bottles, etc. Faspray Corporation. 168,440; May 22; Serial No. 170,974; published Feb. 20, 1923.
Water heaters. Whitlock Coil Pipe Company. 168,486; May 22.
Watermelon, Portions of fresh. F. L. Purvis. 168,466; May 22; Serial No. 166,711; published Feb. 27, 1923.
Wells, Explosive used largely in shooting oil. Chesney Explosive Company. 168,424; May 22; Serial No. 172,371; published Feb. 20, 1923.
Wire ropes. Waterbury Company. 168,398-9; May 22; Serial Nos. 171,674-5; published Feb. 20, 1923.
Witch-hazel, Nonalcoholic. Surgeons Specialty Company. 168,342; May 22; Serial No. 154,066; published Feb. 20, 1923.
Worsted and woolen textile fabrics. Holden-Leonard Company. 168,457; May 22; Serial No. 173,423; published Feb. 20, 1923.

ALPHABETICAL LIST OF LABELS.

Andivista. For Grapes. A. Mattei. 25,977; May 22.
Best Yet Lice, Mite & Roach Powder. For Insect Powder. T. A. Hargrave. 25,958; May 22.
Big Chef. For Canned Shrimp. H. N. Cook. 25,951; May 22.
Camel. For Battery Solution. Camel Chemical Co. 25,950; May 22.
Cove Dale. For Eggs. John V. Kisker & Co. 25,966; May 22.
Dewey's Big Havana. For Cigars. Hudson Cigar Company. 25,960; May 22.
Dinner Time. For Sliced Hawaiian Pineapple. Symons-Moffett Co. 25,990; May 22.
Dunham's Shampoo. For Shampoo for Cleansing and Soothing the Scalp. G. A Dunham. 25,952; May 22.
Egyptian Flower Scent Bags. For Boxes of Sachet. M. E. Miller. 25,978; May 22.
El Pareson. For Cigars, Cigarettes, and Tobacco. Elias Paredes & Son. 25,985; May 22.
Freihofer's Fine Bread. For Bread. Wm. Freihofer Baking Co., 25,955; May 22.
Gentry's High-Grade Chili Powder. For Chili Powder. C. B. Gentry Chili Powder Co. 25,956; May 22.
Harvest Home. For Blackberries. Jett & Wood Mercantile Company. 25,963; May 22.
Iceland. For Toilet Paper. National Paper Products Company. 25,982; May 22.
Iris. For Tea. Symons-Moffett Co. 25,991; May 22.
Jenquin's Ext. For Cod-Liver-Oil Pills. Jenquins Laboratories. 25,962; May 22.
Kellogg's Corn Flakes. For Cereal Breakfast Food. Kellogg Company. 25,965; May 22.
Kleenzal. For Paint, Grease, Varnish, and Oil Remover. Realneed Products Co. 25,987; May 22.
Krank's Hairwealth. For Containers Containing a Hair Tonic. A. J. Krank. 25,973; May 22.
Krank's Hydrofoam (Orange) Shampoo. For Containers Containing a Shampoo. A. J. Krank. 25,968; May 22.
Krank's Hydrofoam (Pine Tar) Shampoo. For Containers Containing a Shampoo. A. J. Krank. 25,967; May 22.
Krank's Camolease. For Containers Containing a Salve. A. J. Krank. 25,971; May 22.
Krank's Liquid Cream. For Containers Containing a Face Lotion. A. J. Krank. 25,969; May 22.
Krank's Mentho-Lemon. For Vanishing Cream. A. J. Krank. 25,974; May 22.
Krank's Scalphealth. For Containers Containing a Hair Tonic. A. J. Krank. 25,972; May 22.
Krank's Sporicide. For Containers Containing an Antiseptic. A. J. Krank. 25,970; May 22.
Mark Twain. For Oranges. San Joaquin Fruit & Investment Company. 25,988; May 22.
Martin. For Toilet Paper. National Paper Products Company. 25,984; May 22.
M R J. For Coffee. M. R. Johnston. 25,964; May 22.
Nepo. For a Compound for Cleaning Paint and Like Surfaces. G. E. Marshall. 25,976; May 22.
Otter. For Toilet Paper. National Paper Products Company. 25,981; May 22.
Park's Original. For Ginger Ale. Waukesha Silurian Water Co. 25,992; May 22.
Pheasant. For Toilet Paper. National Paper Products Company. 25,980; May 22.
Piedigrotta. For Italian Peeled Tomatoes. P. Pastene & Co. 25,986; May 22.
Pussy Silver Legs. For Infants' Hose. Hub Hosiery Mills. 25,959; May 22.
Quality Fabrics. For Quality Fabrics of Cotton Duck and Dyed, Printed, and Painted Cotton Fabrics. Foster & Stewart Company. 25,954; May 22.
Rejuven. For Bird-Food Preparation. W. B. Madder. 25,975; May 22.
Sampson. For Malt Sirup. Independent Breweries Company. 25,961; May 22.
State. For Toilet Paper. National Paper Products Company. 25,979; May 22.
Steele's Vana Brand Flavoring. For Flavoring Compound. R. C. Steele. 25,989; May 22.
Sunset. For Sacks Containing Salt. Bevis Rock Salt Co. 25,949; May 22.
The Sweet Heart of Flowers. For Honey Butter. Foster Honey and Mercantile Company. 25,953; May 22.
Wasite. For Toilet Paper. National Paper Products Company. 25,983; May 22.
Wyrick. For Ginger Ale. C. F. Hagan. 25,957; May 22.

ALPHABETICAL LIST OF PRINTS.

A Thin Colored Lead Mechanical Pencil No. 9. For Mechanical Pencils. American Lead Pencil Company. 6,715; May 22.
Boyd's Step Lively Foot Powder. For Foot Powders for Foot Baths. C. G. Boyd. 6,717; May 22.
Espec. For Electrical Spectacles. Laadt Corporation. 6,723; May 22.
Kiddygrip Sockets. For Hosiery Supporters. I. Goldberg. 6,720; May 22.
Kirk's Cocoa Hardwater Castile. For Soap. James S. Kirk & Company. 6,722; May 22.
O'Neil's "Every drop tested" Greases. For Greases. O'Neil Oil & Paint Company. 6,724; May 22.
O'Neil's "Every drop tested" Non-Chatter Motor Oil. For Motor Oils. O'Neil Oil & Paint Company. 6,727; May 22.
O'Neil's "Every drop tested" Pure Gasoline. For Gasoline. O'Neil Oil & Paint Company. 6,726; May 22.
O'Neil's "Every drop tested" Velvet Greases. For Motor Oils. O'Neil Oil & Paint Company. 6,725; May 22.
O'Neil's "Every drop tested" Velvet Motor Oils. For Motor Oils. O'Neil Oil & Paint Company. 6,728; May 22.

Rodewite. For Cement-Colored Composition for Roads and Cement Constructions. Capital Rodewite Co. 6,718; May 22.

Selling Health and Common Sense. For Adults' and Children's Underwear. Wright's Underwear Company. 6,729; May 22.

The Safety-Device for Porches. For Porch-Rail Safety Device. Christell Brothers. 6,719; May 22.

Treats in Sweets. For Candies. Asprey Candy Company. 6,716; May 22.

V. T. F. Fancy Shape Lentilles. For Watch Glasses. Hammel, Riglander & Co. 6,721; May 22.

Venus Erasers. For Erasers. American Lead Pencil Company. 6,712; May 22.

Venus Everpointed. For Mechanical Pencils. American Lead Pencil Company. 6,714; May 22.

Venus Pencil. For Copying Pencils. American Lead Pencil Company. 6,713; May 22.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alcohol fuel cubes. Reed & Barton Corporation. 145,713; May 22.

Alloys, Heat and corrosion resisting. F. A. Fahrenwald. 176,332; May 22.

Alloys, Magnetic. Western Electric Company. 172,248; May 22.

Almonds, Candied. C. Olmsted. 173,202; May 22.

Almonds, Toasted. J. S. Ewell. 173,883; May 22.

Antiseptic powder. D. A. Blakert. 178,546; May 22.

Apparel, Articles of men's and ladies'. I. Pachner & Son, Inc. 169,737½; May 22.

Automobile taxicabs. Yellow Cab Manufacturing Co. 171,976; May 22.

Automobile tops. Sterling Top & Equipment Company. 175,573; May 22.

Batteries and parts, Storage. Mack Battery Company. 169,065; May 22.

Belting, Round and flat leather. Charles Bond Company. 165,661; May 22.

Beverage sold as a soft drink. C. E. May. 178,349; May 22.

Beverage sold as a soft drink and sirups used in the preparation of same. Ludwig-Schlueter Co. 178,259; May 22.

Beverages sold as soft drinks. Charles T. Smith Company. 176,223; May 22.

Bicycles. Bacharach-Rasin Co. 115,398; May 22.

Bloomers, Ladies' fabric underwear. E. Munzer & Co. 154,524; May 22.

Blouses, Boys'. M. Finkelson. 173,041; May 22.

Boilers and parts thereof, High-pressure. Aktiebolaget Atmos. 172,140; May 22.

Books, Memoranda. Clipper Belt Lacer Company. 175,301; May 22.

Boots and shoes. Crocker & Morse, Inc. 177,169; May 22.

Boots and shoes. W. L. Douglas Shoe Company. 176,331; May 22.

Boots and shoes, Leather. Chippewa Shoe Mfg. Co. 172,261; May 22.

Boots and shoes, Leather. Dugan & Hudson Co. 166,655; May 22.

Boots and shoes, Leather. A. C. Erickson. 174,613; May 22.

Boots and shoes, Leather. Charles K. Fox, Inc. 170,574; May 22.

Boots, shoes, and slippers. Wichert Inc. 174,806; May 22.

Boots, shoes, oxfords, and low quarters, Leather. Grossman Shoe Co. 176,267; May 22.

Brushes, Nail, tooth, hair, cloth, and flesh. Geo. R. Gibson Co. 163,979; May 22.

Building materials. Ste. Anme du Fibrociment et des Revefements Elo. 159,340; May 22.

Busses, Motor. International Motor Company. 152,425; May 22.

Cakes, cookies, and fried cakes. Grennan Cake Corporation. 153,179; May 22.

Calcium carbide. Aluminium - Industrie - Aktien - Gesellschaft. 175,290; May 22.

Calendars. F. L. Serage. 176,285; May 22.

Candies, Dolly Varden Chocolate Company. 175,632; May 22.

Candies. Mission Candy Company. 159,367; May 23.

Candy. American Oriental Candy Mfg. Co. 153,793; May 22.

Candy. S. B. Goff & Sons Company. 172,939; May 22.

Candy. N. G. Knight. 162,824; May 22.

Candy. New England Confectionery Company. 176,274; May 22.

Candy. Westmoreland Candy Company. 154,677; May 22.

Candy and sugared assorted nuts. J. W. Surbrug. 169,962; May 22.

Candlesticks, incense burners, and lamps. Pup Toys Company. 175,158; May 22.

Canned fish. Carmel Canning Co. 176,323; May 22.

Canned oysters and shrimp. Biloxi Packing & Trading Co. 173,397; May 22.

Canned plum pudding. A. Silz, Inc. 171,141; May 22.

Caps, Men's and boys'. J. C. Penney Company. 176,760; May 22.

Cartoon serials. Sun-Herald Corporation. 176,370; May 22.

Cartoons, Series of. Bell Syndicate, Inc. 178,086; May 22.

Casings and tires, hose, tubings, reliners, inner tubes, etc. Federal Rubber Company of Illinois. 170,760; May 22.

Cement, Plastic or semiplastic. James B. Sipe & Co. 175,218; May 22.

China. Porzellan fabrik Ph. Rosenthal & Co., A. G. 171,103; May 22.

Chocolate. Ideal Cocoa & Chocolate Co. 176,129; May 22.

Chocolates. London Chocolate Company. 138,861; May 22.

Churns. Fredrickson Brothers. 155,813; May 22.

Cigars. Bay State Cigar Co. 177,162; May 22.

Clothes racks and hangers. Economy System Co. 174,513; May 22.

Clothing, Men's outer. Frankel Bros. 172,469; May 22.

Cloths and stuffs of wool, worsted or hair. Lewis & Harris Handwoven Tweed Company Limited. 171,131; May 22.

Coffee. J. F. Goodson & Company. 172,330; May 22.

Coffee. F. S. Smith. 153,480; May 22.

Coffee and tea. Eagle Tea & Coffee Company. 176,672; May 22.

Cold cream. L. E. Helfand. 171,915; May 22.

Collars, Men's. C. Schwartz. 172,359; May 22.

Cotton goods in the piece. Lorraine Manufacturing Company. 178,747–8; May 22.

Cotton piece goods. Weiner Brothers, Inc. 175,583; May 22.

Cotton piece goods, Bleached. Louis Stix Co. 178,637–8; May 22.

Cotton piece goods, Bleached. Louis Stix Co. 178,640; May 22.

Cotton, silk and cotton, and silk goods in the piece. E. Meyer. 178,764; May 22.

Cotton, woolen, and silk piece goods and combinations thereof. James F. White & Co. 178,648; May 22.

Cottons in the piece, Brown. Louis Stix Co. 178,639; May 22.

Crêpes and silk goods in the piece and veilings. Louis Roessel & Co. 174,529; May 22.

Cucumbers, Preserved. Peerless Food Products Co. 176,362; May 22.

Culinary utensils, Aluminum. L. C. Jones. 169,907; May 22.

Dictionaries. G. & C. Merriam Company. 174,584; May 22.

Dolls. George Borgfeldt & Co. 175,339; May 22.

Dresses. J. Ober. 166,848; May 22.

Dresses, capes, sport suits, outer skirts, etc. M. Kirschner & Sons. 176,742; May 22.

Dresses, Women's. L. Bamberger & Co. 170,361; May 22.

Dresses, Women's. I. Ginsberg & Bros. 172,671; May 22.

Envelopes. United States Envelope Company. 178,581; May 22.

Extracts and essence of peppermint flavor, Lemon and vanilla. Foley & Company. 176,262; May 22.

Fabrics in the piece, Pile. Sidney Blumenthal & Co. 178,810–11; May 22.

Fire hydrants, indicator posts, gate valves, etc. Kennedy Valve Mfg. Co. 156,088–9; Mar. 22.

Fish, Smoked. Fulton Smoked Fish Co. 176,117; May 22.

Flavoring compound. B. Heller & Company. 172,377–9; May 22.

Flavoring compound. B. Heller & Company. 172,531; May 22.

Flavorings and spices, Food. B. Heller & Company. 172,530; May 22.

Fly swatters and sticky paper. F. W. Hampshire & Co. Ld. 175,490; May 22.

Fruit—viz, satsuma, Fresh. Satsuma Orange & Pecan Groves Company. 176,047; May 22.

Furniture and furniture-van pads. A. L. Reach. 177,244; May 22.

Furniture, Upholstered household. Pan-American Furniture Factory, Inc. 174,149; May 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Garments, Boys' outer. J. J. Preis & Company. 172,490; May 22.

Garments, headwear, underwear, work, negligee, and dress shirts, and blouses, Outer. United Turkey Red Company. 162,787; May 22.

Gas mantles, burners, and lamps therefor, etc., Upright and inverted. Auerlicht Gesellschaft m. b. H. Kommanditgesellschaft. 177,537; May 22.

Ginger ale, cream soda, root beer, etc. Grand Forks Bottling Works. 176,266; May 22.

Gloves, Fabric. S. & V. Company. 170,225; May 22.

Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 173,471; May 22.

Gloves, Leather. Reynier & Cie. 143,400; May 22.

Graphite. Superior Flake Graphite Company. 171,968; May 22.

Hair nets. B. Altman & Co. 178,540; May 22.

Hair nets. Western Bottle Manufactuing Company. 176,142; May 22.

Hair pomade. E. A. Heitkamp. 174,777; May 22.

Handkerchiefs. J. Klein. 177,388; May 22.

Hats. Hill and Loper Company. 158,842; May 22.

Hats. New England Panama Hat Co. 176,756; May 22.

Hats and caps, Men's and boys'. Charles S. Merton & Co. 173,654; May 22.

Hats for men. L. Shafarman, Inc. 176,921; May 22.

Hats for women. C. T. Pidgeon Millinery Co. 175,103; May 22.

Hats, Ladies'. Goldweb Hat Company. 176,541; May 22.

Hats, Ladies'. M. Kutz Company. 175,992; May 22.

Hats, Ladies'. S. Whitman. 175,900; May 22.

Hats, Men's. J. C. Penney Company. 176,759; May 22.

Hats, Straw. Endel & Peles. 175,476; May 22.

Hats, Women's. F. C. Morrison. 173,199; May 22.

Heat-treating containers. Chrobaltic Tool Company. 174,553; May 22.

Heaters, Water. General Water Heater Corporation. 176,173; May 22.

Heels, Wood. Gray Wood Heel Co. 175,143; May 22.

Herrings, Salted and pickled. G. Davidson. 171,204; May 22.

Hooks and eyes, snap fasteners, and safety pins. De Long Hook and Eye Company. 159,351; May 22.

Hooks and eyes, snap fasteners, safety pins, etc. De Long Hook and Eye Company. 161,767 May 22.

Hosiery. Concordia Silk Hosiery Company. 172,519–20; May 22.

Hosiery. Driefus, Eckstein & King, Inc. 172,935; May 22.

Hosiery. Hayward Hosiery Company. 171,914; May 22.

Hosiery. E. D. Merikle. 172,757; May 22.

Hosiery. Richmond Hosiery Mills. 154,780; May 22.

Hosiery. William Vernon's Sons & Co. 172,788; May 22.

Hosiery and knit goods. P. Raguet Fils & J. Vignes. 172,957–8; May 22.

Hosiery, Ladies'. Kajowili Mills. 173,049; May 22.

Hosiery, underwear, and sweaters. A. Thompson Co. 172,779–85; May 22.

Ice and refrigerating machinery, ammonia compressors, receivers, and condensers, etc. Phoenix Ice Machine Co. 170,785; May 22.

Ice cream. Stuart & Emerson. 168,130; May 22.

Ice cream, Compound of vegetable gums and sugars for use as an ingredient of. Liquid Carbonic Company. 176,485; May 22.

Ice cream cones and chocolate for lining ice-cream cones, Chocolate-lined. Midland Brokerage Company. 161,788; May 22.

Insect powders or insecticides. Nasser and Coleman Company. 174,744; May 22.

Insecticide. Walnut Growers Spray Manufacturing Company. 165,435; May 22.

Insoles, Leather. J. G. Curtis Leather Company. 174,074; May 22.

Jar rings, Fruit. Anchor Cap & Closure Corporation. 174,353; May 22.

Lamps, lanterns, etc. Perkins Marine Lamp Corporation. 139,369; May 22.

Lanterns and the burners and metal parts thereof, Oil-burning. R. E. Dietz Company. 176,455; May 22.

Leather. Charles K. Fox, Inc. 170,575; May 22.

Leathers. Wolfe Leather Co. 176,392; May 22.

Liniment, larkspur, cedar flakes, etc., Camphorated white. Western Wholesale Drug Co. 169,256; May 22.

Lip paste and pencils. F. N. Lewis. 174,470; May 22.

Liquid battery charge. J. K. Jester. 170,434; May 22.

Logs. Cadwallader Gibson Lumber Co. 174,299–300; May 22.

Lumber and veneers. Delta Export Lumber Corporation. 171,207–8; May 22.

Magazine, Monthly. Oklahoma Publishing Company. 175,265; May 22.

Magazine, Monthly. Steam Power Publishing Corporation. 160,725; May 22.

Magazine, Name of a monthly. New York Law Review Corporation. 176,032; May 22.

Magazine, Quarterly. Woman's World Magazine Co. 177,342; May 22.

Magazines, Monthly. Needlecraft Publishing Company. 155,444; May 22.

Malt preparation intended as a general tonic. Modern Pharmacal Co. 177,258; May 22.

Matches. Diamond Match Company. 178,896–909; May 22.

Matches. Diamond Match Company. 178,912–13; May 12.

Medicinal compound for the treatment of catarrhal diseases of the head. Cream Balm Company. 170,626; May 22.

Medicinal preparations. J. G. Fambach. 169,895; May 22.

Medicine for kidney troubles, rheumatism, etc. D. L. Watson. 143,466; May 22.

Medicines, Hypnotic. Henry K. Wample and Company. 174,547; May 22.

Mops. Henson-Blair Manufacturing Company. 178,341; May 22.

Musbroom paste. A. G. Hupfel, jr. 172,382; May 22.

Nail polish, cleaner, and tonic, Finger-. Evans Chemical Works. 175,388; May 22.

Needles. John James & Sons Limited. 178,104; May 22.

News in newspaper, Column. Times Printing Company of Seattle. 175,416; May 22.

Newspaper and newspaper supplements published daily. Tribune Company. 177,706; May 22.

Newspaper supplement. Times Printing Company of Seattle. 177,704–5; May 22.

Oil, Chenopodium. Growers Distilling Co. 174,519; May 22.

Oil in capsules, Haarlem. H. Planten & Son, Inc. 165,204; May 22.

Oil, Olive. Buenaventura Balcells Vallbona. 135,438; May 22.

Oils and greases, Lubricating. G. W. Fenimore. 165,976; May 22.

Oils for preserving leathers and neat's-foot oil. New Zealand Refrigerating Company Limited. 161,375; May 22.

Oils, Motor. Velvet Oil Company. 178,684; May 22.

Ointment, Antiseptic antiphlogistic. Smith, Kline & French Co. 175,169; May 22.

Ointment for the cure and alleviation of piles, prolapse, etc. A. O. Molatch. 174,745; May 22.

Ointment used for colds, headache, sore throat, etc. J. W. Oneal Chemical Co. 174,257; May 22.

Ophthalmic mountings and parts thereof. Stevens & Company. 174,540; May 22.

Overalls, work shirts, coats, vests, and pants. A. C. Barrow & Company. 163,966; May 22.

Pamphlet. Butterick Publishing Company. 176,447; May 22.

Pants, Baby. Brooklyn Shield & Rubber Company. 172,027; May 22.

Paper and mailing envelopes, Writing. Whiting Paper Company. 178,888; May 22.

Paper and packages, Sheets of waxed. Shelby Wax Paper Company. 171,286; May 22.

Paper bags and chests. White Tar Company. 175,447; May 22.

Paper, Cover. Marvellum Company. 178,856–7; May 22.

Paper, Sheathing, waterproof building, roofing, etc. Highland Lake Paper Company. 178,010; May 22.

Paper to be printed or lithographed, Coated. McLaurin-Jones Co. 178,761; May 22.

Paper, Toilet. Peterson Paper Company. 176,501; May 22.

Patterns, Dress. Pictorial Review Company. 174,526; May 22.

Peanut butter. E. K. Pond Company. 176,427; May 22.

Pencils, Lead. American Lead Pencil Company. 174,683; May 22.

Pencils, pens, leads, and erasers. Ingersoll Redipoint Company. 174,452; May 22.

Pendants, Luminous. Hart & Hegeman Mfg. Co. 171,419; May 22.

Perfume, toilet water, complexion powder. Solon Palmer. 175,368; May 22.

Perfume, toilet water, sachet powder, etc. Wm. H. Brown & Bro. Company. 174,818; May 22.

Perfumes and hair tonics. A. Sampedro. 171,138; May 22.

Periodical, Monthly. P. F. Collier & Son Company. 178,165; May 22.

Periodical, Weekly. Coleman-Dobson-Cannon Co. 174,558; May 22.

Periodical, Weekly. Petroleum Publishing Company. 176,278; May 22.

Photographic reproductions. L. A. Howland. 177,847; May 22.

Pipes. Barkmahn Company. 174,602; May 22.

Planers, lathes, and drilling machines. Niles-Bement-Pond Company. 177,017; May 22.

Polish and cleaner, Automobile. C. W. Parker Co. 177,320; May 22.

Polish, Stove and furniture. S. Bernstein. 173,609; May 22.

Polishing shoes, Ink for. A. Degerberg. 163,436; May 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Posters, Advertising. E. F. Mack. 176,682; May 22.
Powders and creams, perfumes, etc., Face. V. Vivaudou, Inc. 175,284–5; May 22.
Powders and creams, perfumes, rouges, etc., Face. V. D. Bennett. 163,961; May 22.
Powders, Talcum. Sears, Roebuck and Co. 175,275; May 22.
Preparation for use in the treatment of eczema. R. C. Garrett. 171,268; May 22.
Preparation used as a general household cleaner. Atlantic Laboratories. 169,146; May 22.
Prints and publications. Palmer Photoplay Corporation. 169,645; May 22.
Publication devoted to the farm equipment industry. Monthly. Implement Age Company. 177,000; May 22.
Publication, Monthly. M. Freeman. 176,892; May 22.
Publication, Monthly. National Shoe Retailers Association of the United States of America Inc. 175,806; May 22.
Publication, Occasional. J. T. Igoe. 175,721; May 22.
Publication, Periodical. L. A. Heine. 176,828; May 22.
Publication published daily, Periodical. Norristown Herald, Inc. 176,910; May 22.
Publication, Quarterly. Periodical Publishing Company. 177,403; May 22.
Publication, Semi-monthly. Class Journal Company. 175,355; May 22.
Radio record books. E. Fleming & Co. 177,552; May 22.
Ranges and heaters, Gas. Sunray Stove Company. 178,071; May 22.
Refrigerating apparatus. Automatic Refrigerating Company. 177,645; May 22.
Refrigerating machinery and refrigerators. Vogt Brothers Mfg. Co. 160,218; May 22.
Relish, Salad. Hirsch Bros. & Co. 176,627; May 22.
Ribbons in the piece, Silk. Taylor-Friedsam Company. 175,575; May 22.
Roofing compounds and composition roofing material. Interstate Paint & Supplies Co. 172,838; May 22.
Rouge and powder. F. N. Lewis. 174,469; May 22.
Rubber heels. McWade Tire and Rubber Company. 175,878; May 22.
Seeds. J. Bolgiano Seed Co. 172,859; May 22.
Shampoo. Graham Bros. Soap Company. 174,573–4; May 22.
Shirts, Men's dress, negligee, and work. H. Trachtenberg. 170,226; May 22.
Shirts, nightshirts, pyjamas, and boys' blouses. Phillips-Jones Corporation. 173,145; May 22.
Shirts, Work. Carter Dry Goods Co. 172,511; May 22.
Shoe daubers. Parks & Parks, Inc. 177,322; May 22.
Shoes. Boyd-Welsh Shoe Company. 175,542; May 22.
Shoes. Hurley Shoe Company. 175,355; May 22.
Shoes. Thomas Janney Company. 175,903; May 22.
Shoes, Leather. R. C. Milow Shoe Co. 173,713; May 22.
Shoes, Leather. E. P. Reed & Co. 174,527; May 22.
Shoes, Leather. E. P. Reed & Co. 175,164; May 22.
Shoes, slippers, and spats. Rubin Brothers. 172,559; May 22.
Shoes, Women's. Julius Grossman, Inc. 173,490; May 22.
Silk, cotton, and wool piece goods and mixtures of same. Hyman Bauman & Co. 178,657; May 22.
Silk, cotton, etc., piece goods and combinations thereof. Travis, Romaine & Jelle, Inc. 174,544; May 22.
Silk knitted cloth in the piece. Banner Silk Knitting Mills, Inc. 177,161; May 22.
Silver polish, straw-hat and fabric cleaners. W. W. Wineberg. 145,379; May 22.
Skating sets, Boys'. R. H. Macy & Co. 172,844; May 22.
Soap. A. H. Beach. 169,116; May 22.
Soles of leather, Cut. Barbour Welting Company. 175,054; May 22.
Stockings. Brooklyn Hosiery Mills, Inc. 169,573; May 22.
Suits, knickerbockers, and topcoats, Boys', students', young men's, and men's. Lazarus, Goldberg & Friedman, Inc. 170,775; May 22.
Suspenders, belts, and garters. I. Wechsler. 157,704; May 22.
Sweaters, scarfs, knitted suits, and dresses, etc. Gotham Knitting Mills. 173,233; May 22.
Tablecloths, sheets, pillowcases, napkins. A. S. Herrmann. 167,082; May 22.
Tablets, Herb. S. D. Clegg. 175,070; May 22.
Talking-machine records, Cleaning pads for. Jordan Marsh Company. 177,977; May 22.
Tanks. Leader Iron Works. 172,749; May 22
Tea. Delano, Potter & Co. 176,256; May 22.
Threads. Manufacturers Supplies Company. 158,633; May 22.
Threads. Manufacturers Supplies Company. 158,936; May 22.
Tires, Inner armor or reliner for automobile. American Automobile Accessories Company. 120,271; May 22.
Tonic, General medicinal. G. E. Burcher. 174,124; May 22.
Toothbrushes. Carl Grüneberg, Bürsten-Fabric Bratislava. 178,664; May 22.
Tractors, Motor-driven farm. Marvel Tractor Co. 142,798; May 22.
Trousers. Standard Manufacturing Company. 154,335; May 22.
Trucks, Motor. Menominee Motor Truck Co. 171,647; May 22.
Umbrellas. Peltz, Bohrman, Furse, Inc. 173,979; May 22.
Vehicles, Cushioned connections for use in. International Motor Company. 168,416; May 22.
Vehicles, Electrically-propelled road. Rauch & Lang, Inc. 136,726; May 22.
Vehicles, Metal parts for cushioned connections in. International Motor Co. 169,213; May 22.
Welding metals, Metallic compounds for use in. Alumino-Thermic Corporation. 172,660; May 22.
Wires and strawbraids. Holyoke Company. 132,740; May 22.
Woolen piece goods, Woven. Atlantic Mills. 172,316; May 22.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Adrian O., jr. (See Tilton, G., and Abbott.)
Abrahams, John J., Grand Rapids, Mich. Hook and eye. 1,455,698; May 15.
Abrams, Herman, Philadelphia, Pa. Wall-bracket lighting fixture. Des. 62,355; May 15.
Adam, Fred, Ford, and N. L. Adam, Sudbury, Ontario, Canada. Meat-slicing machine. 1,455,699; May 15.
Adam, Harry C., St. Louis, Mo. Lighting fixture. 1,455,375; May 15.
Adam, Napoleon L. (See Adam, Fred and N. L.)
Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Converting oils. 1,455,376; May 15.
Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting apparatus. 1,455,377; May 15.
Adams, Robert B., Kempton, Pa. Nut lock. 1,455,700; May 15.
Adams, Walter A., Rochester, N. Y. Sewing bench. Des. 62,356; May 15.
Addograph Company. (See Crawley, Mansfield C., assignor.)
Adelmann, William, New York, N. Y. Flour sifter. 1,455,319; May 15.
Aeolian Company, The. (See Snyder Daniel F., assignor.)
Aerofoto, N. V. (See Messter, Oskar, assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for ringing over multiplex transmission channels. 1,454,640; May 15.
Ahlquist, Eugene F., Minneapolis, assignor to Security Envelope Company, South Minneapolis, Minn. Envelope. 1,455,419; May 15.
Aktiebolaget Bofors. (See Wenneratrom, Ernest J. T., assignor.)
Albany Paper Mill Machinery Company. (See Crandell, Willis S., assignor.)
Alderman, Eugene R., Holyoke, Mass. Doffing apparatus. Re15,604; May 15.
Alexander, Charles W., et al. (See Pearce, Charles E., assignor.)
All Metal Products Company. (See Schmidt, William F., assignor.)
Allen, Byron, Southington, Conn. Drop board for drop presses. 1,455,420; May 15.
Allen, Edward V., Waukegan, Ill. Automobile bumper. 1,455,514; May 15.
Allen, John, Detroit, Mich. Automobile fender. 1,455,468; May 15.
Allen, Oglesby, jr., Chicago, Ill. Washing machine. 1,455,378; May 15.
Allen Pressure System Co. Inc. (See Love, Samuel D., assignor.)
Allen, William G., Hartford, Conn. Feeding mechanism for dicing and other machines. 1,454,841; May 15.
Allen, William S., Chicago, Ill. Golf club. 1,455,379; May 15.
Aligrunn, Carl G., assignor to Niagara Sprayer Co., Middleport, N. Y. Crop-dusting machine. 1,455,561; May 15.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Carpet drying machine. 1,455,755; May 15.
Altenkirch, Edmund, Fredersdorf, near Alt-Landsberg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Refrigerating apparatus of the absorption type. 1,455,701; May 15.
Althouse, Wilson D., Philadelphia, Pa. Method of and apparatus for separating coal and like substances and impurities mingled therewith. 1,455,469; May 15.
Amato, Irving J., assignor of one-half to R. D. Tufts, Pittsfield, Mass. Spark intensifier. 1,455,470; May 15.
American Bosch Magneto Corporation. (See Pauly, John, assignor.)
American Brake Shoe & Foundry Company, The. (See Nelson, Albert, assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American District Steam Company. (See Barnes, Eugene L., assignor.)
American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
American Hominy Company. (See Atkinson, Frederick C., assignor.)
American Laundry Machinery Company, The. (See Colclough, William, assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Maynard, A. E., and Gunning, assignors.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Optical Company. (See Tully, G. L., and Boutelle, assignors.)
American Stove Company. (See Moecker, H., jr., and Thompson, assignors.)
American Stove Company. (See Nicolaus, F. G., and Roy, assignors.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Jones, George G., assignor.)
Andel, Frank J., Cleveland, Ohio. Outside brake bracket. 1,455,562; May 15.
Anderson, Frank, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Bedstead end frame. Des. 62,357; May 15.
Anderson, John A., Geneseo, Ill. Attachment for bearings. 1,455,515; May 15.
Anderson, John F., Oakland, Calif. Canning machine. 1,455,013; May 15.
Anderson, John F., Oakland, Calif. Can exhauster. 1,455,014; May 15.
Anderson, Robert W., Covington, Ky. Rail mounting. 1,454,915; May 15.
Anderson, Vincent G., Kenosha, Wis., assignor, by mesne assignments, to F. C. Austin Machinery Company. Walking motion, propelling apparatus. 1,455,380; May 15.
Andres, George S., Chicago, Ill. Attaching device. 1,455,516; May 15.
Anspach, Marcel, assignor to Societe Anonyme Belge "Saber" Entreprises & Revetements, Brussels, Belgium. Glass tile for covering walls. 1,454,842; May 15.
Anthony Company, The. (See Martindell, Frank, assignor.)
Anthracite Separator Company. (See Pardee, Frank, assignor.)
Apeldoornsche Machinefabriek en Melaalgieterij Voorheen Loog Landaal. (See Ferguson, George, assignor.)
Arbuckle, Alexander J., Johannesburg, Transvaal, South Africa. Means for separating the liquid and solid components of mixtures of liquids and solids. 1,454,916; May 15.
Armengaud, Pierre, Courbevoie, France. Insulating handle for saucepans or other kitchen utensils. 1,455,760; May 15.
Armstrong, Oliver C. (See Stephenson, J. R., and Armstrong.)
Arnoldson, Arnold J., Elsinore, Utah. Resilient wheel. 1,455,517; May 15.
Ashlock, Ernest H., assignor of one-fourth to W. H. Sweetland and one-fourth to W. Rittenhouse, San Diego, Calif. Chiropractic adjustment machine. 1,455,320; May 15.
Aston, Frank B., Elgin, Ill. Casket handle. Des. 62,358; May 15.
Atkinson, Frederick C., Indianapolis, Ind. Preserving cottonseed. 1,455,016; May 15.
Atkinson, Frederick C., assignor to American Hominy Company, Indianapolis, Ind. Soap. 1,455,015; May 15.
Atlas Powder Company. (See Strane, Archibald J., assignor.)
Austin, F. C., Machinery Company. (See Anderson, Vincent G., assignor.)
Avvocato, Joseph, Brooklyn, N. Y. Spoons, knives, forks, or similar articles of tableware. Des. 62,359; May 15.
Axelson, Charles F., Los Angeles, Calif., assignor to Axelson Machine Co. Swing-jaw chuck. 1,455,017; May 15.
Axelson Machine Co. (See Axelson, Charles F., assignor.)
Axiotes, Anthony A., Newport, R. I. Lobster trap. 1,455,381; May 15.
Ayers, Eugene M. (See Tucker, J. R., and Ayers.)
Ayers, Norman, New Straitsville, Ohio. Lever mechanism. 1,455,421; May 15.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)

Bache-Wiig, Carl, deceased, Portland, Me.; M. Bache-Wiig, executrix. Preparing pulp. 1,455,471; May 15.
Bache-Wiig, Bertha M., executrix. (See Bache-Wiig; Carl.)
Bacon, Charles V., Mahwah, N. J. Recovering iron oxide and other products from spent iron sludge. 1,455,060; May 15.
Badge, Francis J. (See Keller, J. F., and Badge.)
Baer, Maurice J., assignor to The Baer & Wilde Company, Attleboro, Mass. Snap button. 1,455,281; May 15.
Baer & Wilde Company, The. (See Baer, Maurice J., assignor.)
Bahmann Iron Works Company, The. (See Cite, Joseph D., assignor.)
Baine, James C., assignor to Excelsior Cycle Company, Michigan City, Ind. Bicycle frame. Des. 62,351; May 15.
Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,455,099; May 15.
Balter, Louis, New York, N. Y. Dental tray. 1,455,518; May 15.
Balzer-Alber, Wilhelm. (See Jenny, K. K., and Balzer-Alber.)
Barcalo Manufacturing Company. (See Anderson, Frank, assignor.)
Barlow, William L., Clear Lake, Iowa. Crate for catching and holding hogs. 1,455,101; May 15.
Barnes, Eugene L., Seattle, Wash., assignor to American District Steam Company, North Tonawanda, N. Y. Fuel-stoking structure. 1,455,756; May 15.
Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Liquid-measuring structure. 1,455,757; May 15.
Baron, Mary C., Hampden Meadows, R. I. Brooder. 1,454,946; May 15.
Barr, James, Beaver, Pa. Opener. 1,455,702; May 15.
Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,455,519; May 15.
Barrett, Arthur M., Chicago, Ill. Forming folded strips of material. 1,455,061; May 15.
Barrett, Leon J., Worcester, Mass. Pruning shears. 1,454,917; May 15.
Barrie, William S., and L. Chadwick, Selwyn, via Townsville, Queensland, Australia. Aromatic hydrocarbon cement. 1,455,598; May 15.
Bartlett, George P. (See Lewin, J. A., and Bartlett.)
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-forming-tube package. 1,455,382; May 15.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Making and filling bags. 1,455,383; May 15.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Forming and preparing bag tubes for use in making filled bags. 1,455,384; May 15.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag form. Re15,605; May 15.
Bates, Albert J., Chicago, Ill., assignor to Bates Expanded Steel Truss Co., Wilmington, Del. Automatic hydraulic control valve for expanding machines. 1,455,062; May 15.
Bates Expanded Steel Truss Co. (See Bates, Albert J., assignor.)
Bates, Frank C., Kansas City, Mo. Liquid-vending machine. 1,455,742; May 15.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Batts, John T., Grand Rapids, Mich. Packing and shipping case for garments. 1,455,063; May 15.
Beaver Products Company. (See Speer, Alexander S., assignor.)
Beaver Products Company, The. (See Utzman, Clarence W., assignor.)
Bechtol, Archie H., and W. A. Tratsch, Memphis, Tenn. Amusement device. 1,454,947; May 15.
Becker, Erich, Bad Sooden, Germany. Furnace for liquid fuel. 1,455,186; May 15.
Becker, Theodor, Dusseldorf, Germany. Process and device for producing hollow blocks for manufacturing seamless tubes. 1,455,705; May 15.
Begley, William J., Arverne, N. Y. Vehicle signaling device. 1,455,064; May 15.
Belcher, Huett J. (See McCreer, R., and Belcher.)
Belden, Clements G., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Packaging apparatus. 1,455,037; May 15.
Belgian American Coke Ovens Corporation. (See Goffart, Paul, assignor.)
Bell, Wilbur, Marengo, Iowa. Stamp-inking pad. 1,455,472; May 15.
Bellows, Philip, assignor to Dampney Company of America, Boston, Mass. Tube-painting machine. 1,455,065; May 15.
Belnap, Lewie L., Oakland, Calif. Insect trap. 1,455,100; May 15.
Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
Bennington, Earl T., Colonial Heights, Ohio. Rail coupling. 1,454,948; May 15.
Bentson, Victor L., assignor to National Progress Club, San Francisco, Calif. Emblem, button, brooch, fob, or similar article. Des. 62,371; May 15.
Bereman, John W., Wichita, Kans. Folding table. 1,455,066; May 15.
Bergens, William J., assignor to The Novelty Patents Company, Chicago, Ill. Extension curtain rod. 1,455,102; May 15.
Berman, Morris, Mattapan, Mass. Clamp. 1,455,067; May 15.
Berry, Cullye T., near Dayton, Ohio. Interchangeable and adjustable sign. 1,455,103; May 15.
Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-channeling machine. 1,454,880; May 15.
Besch, Joseph, Albany, N. Y. Brake-lever handle guard. 1,455,563; May 15.
Biddle, Benjamin J., Montville, N. J. Combination tool. 1,455,564; May 15.
Bjorkquist, Sigurd, Blaney, Mich. Bottle cap. 1,455,068; May 15.
Blackburn, Jasper, Webster Groves, Mo. Gear selecting and changing device. 1,455,161; May 15.
Blackburn, Jasper, Webster Groves, Mo. Gear selecting and shifting device for motor vehicles. 1,455,162; May 15.
Blackburn, Jasper, St. Louis, Mo. Expanding screw anchor. 1,455,163; May 15.
Blackwell, Daniel W., San Diego, Calif. Catch. 1,455,104; May 15.
Blackwood, Edward W., St. Louis, Mo. Inhaler. 1,455,385; May 15.
Blake, Dennis B. D., Quincy, Ill. Shock absorber. 1,455,743; May 15.
Blakoe, Robert, London, England. Friction driving gear for motor vehicles, motor boats, and aircraft. 1,455,704; May 15.
Blatecky, Joe, Racine, Wis. Planting machine. 1,454,949; May 15.
Bledsoe, Howard F., Ellensburg, Wash. Inner tube. 1,455,038; May 15.
Bluemel, Gustave, assignor to Furguson Furnace Company, Toledo, Ohio. Heater and kindler. 1,455,069; May 15.
Bohue, William A. (See Peirson, C. H., and Bohue.)
Boltnott, Samuel H., Roanoke, Va. Direction indicator for motor vehicles. 1,455,422; May 15.
Boléns, Colte H., et al., administrators. (See Bowser, Augustus.)
Bolton, George J., Sayre, Pa. Toy. 1,455,473; May 15.
Bonelli, George A., Kingman, Ariz. Molding plastic structures and apparatus for use in same. 1,455,039; May 15.
Boney, Ashton M. (See Bunker, J. W., and Boney.)
Bonnet, Frederick C., Hamburg, N. Y., and R. Franklin, Durant, Okla. Oil-well fishing tool. 1,455,237; May 15.
Bosch, Herman J., New York, N. Y. Drying appliance. 1,455,238; May 15.
Bosa Washing Machine Company, The. (See Dietz, William C. F., assignor.)
Bostrom, Philip, Gooding, Idaho. Harness-trace support and assembly. 1,455,705; May 15.
Bothwell, Henry R., assignor to S. Newman, Cincinnati, Ohio. Vise. 1,454,993; May 15.
Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turnbutton fastener. 1,455,758; May 15.
Boutelle, William H. (See Tully, G. L., and Boutelle.)
Bower, Ferdinand A., and B. Cataline, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich. Coarse-pitch spiral bevel gear. 1,455,706; May 15.
Bowser, Augustus, deceased, by C. H. Boléns and C. S. Fair, administrators, Fort Wayne, Ind. Liquid-dispensing apparatus. Re15,606; May 15.
Boyle, James M., U. S. Army. Optical system. 1,454,950; May 15.
Braillard, Raymond. (See Goldschmidt, R. B., and Braillard.)
Bregeat Corporation of America. (See Brégeat, Jean H., assignor.)
Brégeat, Jean H., Paris, France, assignor to Bregeat Corporation of America, Wilmington, Del. Recovery of ether. 1,455,707; May 15.
Brewer, Henry, Wilmette, Ill., assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring and indicating apparatus. Re15,597; May 15.
Brewer-Titchener Corporation, The. (See Haagland, Robroy C., assignor.)
Brewer, William H. S., Epsom, New Zealand. Kettle-lid-raising means. 1,455,070; May 15.
Briggs, Eugene C., Norwood, Mass. Phonograph-record file. 1,455,565; May 15.
Briggs, William P., New Bedford, Mass. Fuse plug. 1,455,566; May 15.
British Dyestuffs Corporation Limited. (See Fairbrother, T. H., and Renshaw, assignors.)
Brophy, Oscar, Philadelphia, Pa. Fruit-juice extractor. 1,454,918; May 15.
Brown and Sharpe Manufacturing Company. (See Townsend, Herbert E., assignor.)
Brown, Commodore P., Ronceverte, W. Va. Wrench. 1,455,423; May 15.
Brown, Commodore P., Ronceverte, W. Va. Bit clamp. 1,455,424; May 15.

Brown, David B., Bellingham, Wash. Safety-razor-blade resharpener. 1,455,567; May 15.
Brown, Ellis E., Springmont, Pa. Flexible coupling. 1,455,425; May 15.
Brown, Eugene L., jr., assignor to R. E. S. Geare, Chicago, Ill. Chain grate. 1,455,040; May 15.
Brown, Eugene L., jr., assignor to R. E. S. Geare, Chicago, Ill. Feed gate for automatic stokers. 1,455,041; May 15.
Brown, Frank E., Seattle, Wash. Sign. 1,455,474; May 15.
Brown, Gregory, assignor to Norton Company, Worcester, Mass. Grinding-fluid-circulating system. 1,455,187; May 15.
Brown, Harry E., assignor to Brown Machine Company, Grenola, Kans. Underreamer. 1,454,843; May 15.
Brown, Howard S., et al. (See Duder, John, assignor.)
Brown, Hugh F. (See Errett, T. A., and Brown.)
Brown, Julius A., Peekskill, N. Y. Stylus for phonograph reproducers. 1,454,951; May 15.
Brown Machine Company. (See Brown, Harry E., assignor.)
Brown, Milo, Anderson, Ind. Protracting square. 1,455,708; May 15.
Brown, William P. (See Errett, T. A., and Brown.)
Browning, John M., Ogden, Utah. Rear sight for firearms. 1,455,071; May 15.
Brunet, Maurice, assignor to Maison Detilleux, Société Anonyme, Liege, Belgium. Governor for steam engines. 1,455,568; May 15.
Bryant, Frank J., West Brookfield, Mass. Movable hoisting device. 1,454,881; May 15.
Buc, Hyym E., Roselle, N. J., assignor, by mesne assignments, to Standard Development Company. Dehydration of alcohol. 1,455,072; May 15.
Buck, Fred, assignor to The Lufkin Rule Company, Saginaw, Mich. Joint for folding rules. 1,455,042; May 15.
Bullard, Edward P., jr., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Indexing device. 1,455,282; May 15.
Bullard, Edward P., jr., assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Electric-operating chucking device. 1,455,283; May 15.
Bullard Machine Tool Co., The. (See Bullard, Edward P., jr., assignor.)
Bullock, Hermon H., Walden, N. Y. Windshield shade. 1,455,475; May 15.
Bunker, John W., and A. M. Boney, assignors to Service Bag Co. Inc., New York, N. Y. Fastening and handle for paper envelopes and receptacles. 1,454,952; May 15.
Bunker, John W., and A. M. Boney, assignors to Service Bag Co. Inc., New York, N. Y. Paper envelope or bag. 1,454,953; May 15.
Bunten, Claude L., Rawlins, Wyo. Parachute toy. 1,455,073; May 15.
Burbank, Ralph, Memphis, Tenn. Clamp. 1,455,709; May 15.
Burleigh, J. A. (See Johnson, Joe, assignor.)
Bruno, Joseph N., Chicago, Ill. Coin-deposit receptacle. 1,454,919; May 15.
Burrell, George A. (See Oberfell, G. G., and Burrell.)
Butcher, William L., Bringhurst, assignor of one-half to W. M. Harmon, Cutler, Ind. Knockdown chicken coop. 1,455,105; May 15.
Butler, William F., Hillside, N. J. Trap. 1,455,106; May 15.
Button Attaching Machine Company. (See Ross, Frederick N., assignor.)
Caldwell, Benjamin F., Pomona, Calif. Furnace. 1,455,018; May 15.
Callahan, Eugene C., Chicago, Ill. Combined ash tray and extinguisher. Des. 62,372; May 15.
Cameron, Arthur, Chicago, Ill. Automobile radiator thermometer. 1,455,043; May 15.
Cameron, Thomas, Bennington, N. H. Board-stripping device. 1,455,019; May 15.
Cameron, William H., assignor to Radium Chemical Company, Pittsburgh, Pa. Holding or supporting means for radium-applying means. 1,455,476; May 15.
Caminoni, Philip, jr., Brooklyn, N. Y. Article of furniture. 1,455,569; May 15.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,455,520; May 15.
Campbell, John P., assignor, by mesne assignments, to M. C. Ludlam, Woodbury, N. J. Irrigating device. 1,454,844; May 15.
Campbell, Sterling H., St. Louis, Mo. Coupler-release rigging. 1,455,386; May 15.
Caracristi, Virginius Z. (See Muhlfeld, J. E., and Caracristi.)
Carver Cotton Gin Company. (See Vardell, Arthur A., assignor.)
Case, George W., and J. W. Roberts, Passaic, N. J. Making loose-wrapped folding boxes. 1,455,321; May 15.
Case, Theodore W., Scipio, N. Y. Apparatus for recording light. 1,455,074; May 15.
Casey Hedges Co. (See Stimmel, Frederick C., assignor.)
Casner, Thaddeus S., Plainfield, N. J., assignor, by mesne assignments, to G. Rawak, New York, N. Y. Secondary electric clock. 1,454,954; May 15.
Casner, Thaddeus S., Plainfield, N. J., assignor, by mesne assignments, to G. Rawak, New York, N. Y. Clock. 1,454,955; May 15.
Cassara, Pasquale, Bethlehem, Pa. Motor and steering control for automobiles. 1,455,570; May 15.
Cataline, Benton. (See Bower, F. A., and Cataline.)
Causey, Alma E. (See Denman, A. J., and Causey.)
Central Oil & Gas Stove Company. (See White, Fred E., assignor.)
Chadwick, Lawrence. (See Barrie, W. S., and Chadwick.)
Chandler, Theodore R., Davenport, Iowa. Car-door hanger. 1,455,044; May 15.
Chapman, Samuel E., San Mateo, Calif. Catapult. 1,455,075; May 15.
Charles, Clement D., New York, N. Y. Circular-saw machine. 1,455,426; May 15.
Charles, Theophile, New York, N. Y. Apparatus for manufacturing hair goods. 1,454,956; May 15.
Charlton, Robert W., assignor of one-half to A. F. Klumpp, Pineville, La. Contents ejector for receptacles. 1,455,322; May 15.
Chase Companies, Inc., The. (See Keavaney, William R., assignor.)
Chase, Elroy A., Northfield, Vt. Stone-cutting wheel. 1,455,477; May 15.
Chemical Foundation, Inc., The. (See Grünhagen, Heinrich, assignor.)
Chemical Foundation, Inc., The. (See Klages, August, assignor.)
Chemical Foundation, Inc. (See Riesenfeld, Ernst H., assignor.)
Chemical Foundation, Inc., The. (See Rücker, Karl, assignor.)
Chemical Foundation, Inc., The. (See Weeber, Otto, assignor.)
Chih, Cheng W., Canton, China. Calculating machine. 1,455,710; May 15.
Childress, Henderson P., Memphis, Tenn. Portable ventilated seat. 1,455,239; May 15.
Chochol, Joseph, and M. Dykas, Chicago, Ill. Aeroplane 1,455,427; May 15.
Christensen, Marie. (See Ellrich, Max, assignor.)
Christian, Winter W., and A. G. Maxey, Owensboro, Ky.; said Christian assignor to said Maxey. Combined letter box and changeable sign. 1,454,882; May 15.
Cincinnati Bickford Tool Company. (See Klausmeyer, David C., assignor.)
Cirac, Louis V., Fallon, Nev. Beet harvester. 1,455,107; May 15.
Cité, Joseph D., assignor, by mesne assignments, to The Bahmann Iron Works Company, Dayton, Ohio. Axle bearing. Re15,599; May 15.
Clarke, David E. G., Bayonne, N. J. Water-tube boiler. 1,455,521; May 15.
Clarke, Ira M., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Ash tray. Des. 62,373; May 15.
Clarke, Ira M., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Ash tray. Des. 62,374; May 15.
Clay, Noble S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ornamental article and producing the same. 1,454,845; May 15.
Cleland, Alex, New Orleans, La. Screw jack. 1,455,571; May 15.
Cline, Wesley, Edmonton, Alberta, Canada. Automobile signal. 1,454,920; May 15.
Clute, Arthur P. (See Dary, E. G., and Clute.)
Clymer, James A., Oakland, Calif. Heater. 1,455,076; May 15.
Coates, Frederick, Wyoming, assignor to The Federal Products Company, Cincinnati, Ohio. Paper container. 1,454,846; May 15.
Cobb, Henry Z., New York, N. Y., assignor to The Mechanical Rubber Company. Hollow article of rubber or like material and process and apparatus for making same. 1,455,240; May 15.
Cobb, Henry Z., New York, N. Y., assignor to New York Belting and Packing Company. Stop for sewing machines. 1,455,387; May 15.
Coberly, Clarence J., Los Angeles, Calif. Motion-picture film. 1,455,428; May 15.
Cockrill, John, Jackson, Tenn. Safety device for tractors. 1,454,957; May 15.
Coen Co. (See Sherwood, Carlyle J., assignor.)
Coen, Garnet W., San Francisco, Calif. Oil heater. 1,455,164; May 15.
Coffman, Samuel M., Kansas City, Mo. Valve tester. 1,455,077; May 15.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Salt-bath furnace. 1,454,847; May 15.
Colclough, William, assignor to The American Laundry Machinery Company, Norwood, Ohio. Padding-cover clamp for pressing machines. 1,455,108; May 15.
Cole, Rex J., assignor to Duplexalite Corporation, New York, N. Y. Lighting fixture. Des. 62,360; May 15.
Collier, Thomas, Colne, England. Furnace of steam boilers. 1,455,429; May 15.
Collin, George W., Bridgeport, Conn. Automatic steam trap. 1,455,021; May 15.
Collingwood, John M., Wichita, Kans. Water-driven pump. 1,455,078; May 15.

Collins, Cornelius, Burlingame, Calif. Frame construction for fireproof walls or partitions. 1,455,711; May 15.
Collins, Cornelius, Los Angeles, Calif. Frame construction for fireproof walls or partitions. 1,455,712; May 15.
Collins, George J. S., St. Louis, Mo. Valve-seating tool. 1,455,388; May 15.
Collins, Harry, Sweetwater, Tex. Grapple. 1,450,020; May 15.
Colosi, Demenico, Boston, Mass. Envelope-delivery machine. 1,455,241; May 15.
Condé, Harry L., Syracuse, N. Y. Game apparatus. 1,455,045; May 15.
Connecticut Telephone & Electric Co. Inc., The. (See Groten, Frank J., jr., assignor.)
Cook, Carl F., assignor of one-half to J. Flam, Schenectady, N. Y. Typewriter and operating same. 1,455,079; May 15.
Cook, Charles S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. 1,455,572; May 15.
Cooklin, Isaac, Liverpool, England. Extensible table. 1,455,599; May 15.
Corgiat, John, jr., and J. J. Dusevoir, assignors to Star Motor Company of California, Oakland, Calif. Coupling. 1,455,242; May 15.
Cornwell, William H., Oakland, Calif. Self-adjusting headlight. 1,455,600; May 15.
Courtaulds Limited. (See Lloyd, John A., assignor.)
Courtaulds Limited. (See Stokes, William H., assignor.)
Coutinho da Nobrega, Joaquim, New York, N. Y. Momentum-operated brake. 1,455,325; May 15.
Cowen, Walter L., and C. A. Friend, assignors to L. Rogaly, Sydney, New South Wales, Australia. Automatic starting and stopping attachment for disk-type talking machines. 1,455,478; May 15.
Cox, Cicero A., Ragland, Ala. Air-compressing attachment for engines. 1,455,601; May 15.
Cox, Henry G., Chicago, Ill., assignor to International Harvester Company. Forming flat coils. 1,455,188; May 15.
Cox, William G., Cleveland, Ohio. Spring bracket and fender. 1,455,573; May 15.
Crandell, Willis S., Elsmere, assignor to Albany Paper Mill Machinery Company, Inc., Albany, N. Y. Friction driving element. 1,455,389; May 15.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Case-shift mechanism. 1,455,109; May 15.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Ribbon mechanism. 1,455,110; May 15.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Ribbon shift and vibrating mechanism. 1,455,111; May 15.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,455,112; May 15.
Cress, Horatio G., Troy, Ohio. Educational device. 1,455,522; May 15.
Croson, Clyde R., and J. W. Kindelberger, Wheeling, W. Va. Dust cap for tire valves. 1,455,080; May 15.
Crowe, Orin T., Hayward, Calif. Furring and fastening device. 1,455,243; May 15.
Crown Cork and Seal Company of Baltimore City, The. (See Belden, Clements G., assignor.)
Crum, Benjamin F., Oakland, Calif. Resilient wheel. 1,455,189; May 15.
Cudney, Elmer, Stege, Calif. Delay-action exploder. 1,455,165; May 15.
Cumfer, Donald A., Detroit, Mich. Shingle strip and making it. 1,455,713; May 15.
Cummins, Herbert L., Owensmouth, Calif. Pitter. 1,455,323; May 15.
Cunningham, E. T. (See Danielson, Ernest G., assignor.)
Curlee, George A., Childress, Tex. Dumping apparatus. 1,455,602; May 15.
Cushman, Trav, Anaheim, Calif. Rotary gas engine. 1,455,324; May 15.
Daggett, William F., Chicago, Ill. Pulley and similar construction. 1,455,479; May 15.
Dailey, Robert T., Omaha, Nebr. Dump wagon. 1,455,714; May 15.
Dake, Charles W., assignor to The Pyle National Company, Chicago, Ill. Turbine. 1,455,022; May 15.
Dampney Company of America. (See Bellows, Philip, assignor.)
Dandridge, James W., Garrison, W. Va. Stenographer's transcript rack. 1,455,603; May 15.
Danielson, Ernest G., assignor to E. T. Cunningham, San Francisco, Calif. Inductance coil. 1,455,081; May 15.
Dann, Ernest G., Chicago, Ill. Spring bumper. 1,455,082; May 15.
Darden, Newton J., Washington, D. C. Necktie holder. 1,455,604; May 15.
Dary, Elmer G., and A. F. Clute, Quincy, Ill. Mechanism for propelling vessels. 1,455,716; May 15.
Davies, William T., assignor to The Patterson-Sargent Company, Cleveland, Ohio. Metal container. 1,454,958; May 15.
Davidson, Benjamin S. (See Poindexter, Franklin E., assignor.)
Davidson, John, Tutbury, Burton-on-Trent, England. Internal-combustion engine. 1,455,132; May 15.
Davino, Alphonso, and F. P. Schoberle, Los Angeles, Calif. Aerial railway for amusement purposes. 1,455,390; May 15.
Davis, Harold S., Pittsburgh, Pa., assignor to Texas Gulf Sulphur Company, New York, N. Y. Burning sulphur. 1,455,284; May 15.
Davis, Rulon H., Salt Lake City, Utah. Folding umbrella. 1,455,605; May 15.
Dawson, Josiah, Philadelphia, Pa. Fusible link. 1,454,848; May 15.
Dayton Scale Company. (See Riedel, Charles E., assignor.)
Danese, Joseph, Philadelphia, Pa. Extension device. 1,455,715; May 15.
De Correvont, Howard P. (See Wyckoff, A. D., and de Correvont.)
Decaux, Leopold R. (See Gaumont, L., and Decaux.)
Delano, James K., New York, N. Y. Engine-starting system. 1,455,717; May 15.
De Lipski, Nicolas V. (See Phillips, E. H., and De Lipski.)
Delong, Nelson M., Washington, D. C. Hydropneumatic device. 1,455,718; May 15.
De Luiz, Edward R., assignor to Kelvinator Corporation, Detroit, Mich. Expansion valve. 1,455,430; May 15.
De Matteo, Lewis, assignor to Durand & Company, Newark, N. J. Cigar cutter. 1,454,994; May 15.
De Moulin, Ulysses S., Greenville, Ill. Initiation device. 1,455,113; May 15.
Denman, Ambrose J., and A. E. Causey, Delhart, Tex. Refrigerator-car protective device. 1,454,883; May 15.
Denmire, Harold A., assignor of one half to The General Tire & Rubber Company, Akron, Ohio. Collapsible tire core. 1,454,995; May 15.
Deuter, Charles W., Seattle, Wash. Gauge for piston-valve cylinders. 1,455,083; May 15.
Diamond, Harry I., Atlanta, Ga. Insulating tape. 1,455,744; May 15.
Dicks, Thomas A., assignor to Standard Steel Propeller Company, Pittsburgh, Pa. Control mechanism for propellers. 1,455,431; May 15.
Diehl, Frederick, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Sewing-machine-motor bracket. 1,455,391; May 15.
Diehl Manufacturing Company. (See Diehl, Frederick, assignor.)
Diepschlag, Ernst, Breslau, Germany. Apparatus for drying charges for shaft furnaces. 1,455,392; May 15.
Dietz, William C. F., Cincinnati, Ohio, assignor to The Boss Washing Machine Company, Norwood, Ohio. Washing machine. 1,455,719; May 15.
Diller, William W., Indianapolis, Ind. Motor-axle drive. 1,455,084; May 15.
Di Lorenzo, Mauro, Landisburg, W. Va. Stuffing-box gland. 1,455,606; May 15.
Dixon, H. L., Company. (See Steelman, Lewis, assignor.)
Diesk, John, Berwyn, assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Holder for reamers. 1,455,480; May 15.
Dodge, William W., jr., Meriden, Conn. Toaster. 1,455,190; May 15.
Dodson, Carroll E., Kansas City, Mo., assignor, by mesne assignments, of one-half to Union Pharmacal Company. Vanity case. 1,455,432; May 15.
Doherty, John, New York, N. Y., assignor to Superior Projector, Inc. Motion-picture machine. 1,455,393; May 15.
Donkers, Louis B., Antwerp, Belgium. Street sweeper. 1,454,884; May 15.
Dorment, Frank C., Cleveland, Ohio, assignor to The Mineral Bath Cabinet Company. Cabinet. 1,455,191; May 15.
Douglass, Frank E. (See Townsend, W. S., and Douglass.)
Doulett, Henry T., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoemaking. 1,455,523; May 15.
Downie, Charles E., and G. D. Gravely, Pomeroy, Ohio. Tractor cultivator. 1,455,046; May 15.
Downs, Frank W., Washburn, Wis. Hinged cover for containers. 1,455,133; May 15.
Dreyfus, Henry, London, England. Cellulose-ether composition. 1,454,959; May 15.
Dreyfus, Henry, London, England. Cellulose aralkyl-ether composition. 1,454,960; May 15.
Dreyfus, Henry, London, England. Composition containing cellulosic derivatives. 1,454,961; May 15.
Du Bois, Charles L., Portland, Oreg. Hydraulic door-opening mechanism. 1,455,607; May 15.
Duder, John, Salt Lake City, assignor of one-half to H. S. Brown, Oasis, and one-fourth to S. W. Stewart, Salt Lake City, Utah. Excavating wheel. 1,455,608; May 15.
Dumler, George H. (See Kirk, H. C., and Dumler.)
Dumont, Joseph R., Kansas City, Mo. Indicia-carrying rack. 1,455,192; May 15.
Dunham, George W., New York, N. Y., assignor to Graham Brothers, Evansville, Ind. Tractor. 1,455,394; May 15.
Dunkley, William H., Birmingham, England. Power propulsion of road vehicles. 1,455,720; May 15.
Dunmore, Francis W. (See Lowell, P. D., and Dunmore.)

Duplexalite Corporation. (See Cole, Rex J., assignor.)
Duquette, Duncan J., Duluth, Minn. Game. 1,455,193; May 15.
Durand & Company. (See De Matteo, Lewis, assignor.)
Durst, Ray O., Bradford, Ohio. Grate attachment for stoves and furnaces. 1,455,721; May 15.
Dusevoir, Julius J. (See Corgiat, J., jr., and Dusevoir.)
Dye, Mark W., Seattle, Wash. Automobile hat holder. 1,454,962; May 15.
Dykas, Michael. (See Chochol, J., and Dykas.)
Eastman, Donald L., Olean, N. Y. Fountain pen. 1,455,590; May 15.
Eastman, Herbert W., Cedar Rapids, Iowa. Carbon remover. 1,455,574; May 15.
Eastman Kodak Company. (See Gaumont, L., and Decaux, assignors.)
Eastman, William H., Concord, assignor of one-half to H. C. Whitney, Penacook, N. H. Telephone indicator. 1,455,285; May 15.
Eaton, Harold I., Ventnor, and F. A. Reiley, Atlantic City, N. J. Rope-drum attachment for tractors. 1,455,575; May 15.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor control. 1,455,194; May 15.
Eberhardt, Walter. (See Herschede, W. J., and Eberhardt.)
Ecke, William R. (See Matthews, J. H., and Ecke.)
Eckert, Edward E., Chicago, Ill. Carburetor. 1,455,184; May 15.
Economy Gage and Manufacturing Company, The. (See Ososke, Rudolph, assignor.)
Edwards, Francis E., Crystal Lake, assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system for automobiles and the like. 1,455,085; May 15.
Egerton, Henry C., Ridgewood, N. J. Diaphragm for dictaphones, etc. 1,455,745; May 15.
Eichelberger, George W., jr., Goose Creek, Tex. Automatic stop for phonographs. 1,455,326; May 15.
Einson-Freeman Company. (See Ganz, Albert J., assignor.)
Elliott, Auren C., Los Angeles, Calif. Emergency brake. 1,455,576; May 15.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Ellrich, Max, Jersey City, N. J., assignor, by mesne assignments, to M. Christensen, Brooklyn, N. Y. Conveyer. 1,455,433; May 15.
Ellrich, Max, Jersey City, N. J., assignor, by mesne assignments, to M. Christensen, Brooklyn, N. Y. Fastening of trays to conveyers. 1,455,434; May 15.
Elwell, Franklin H., Chicago, Ill. Oil cup. 1,455,086; May 15.
Elwell, Franklin H., Chicago, Ill. Oil cup. 1,455,087; May 15.
England, James M., Dallas, Tex. Store display room. 1,455,114; May 15.
Eno, J. C., Limited. (See Jaggers, William J., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Epstein, Eli, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 1,455,577; May 15.
Erickson, C. E., Company. (See Erickson, Claus E., assignor.)
Erickson, Claus E., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Combined coupon-book and ice-pick holder. 1,455,759; May 15.
Erickson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills, Inc., Glenriddle, Pa. Textile fabric. Des. 62,361; May 15.
Errett, Thomas A., W. P. Brown, and H. F. Brown, San Francisco, Calif. Cutting and welding torch. 1,454,966; May 15.
Esson, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder and the like. 1,454,921; May 15.
Ester, Giuseppe. (See Franco, R., and Ester.)
Estler, Paul T. J., London, England. Trolley collector. 1,455,578; May 15.
Evans, Daniel, Highbury, London, England. Writing and drawing surface. 1,455,579; May 15.
Evans, Powell. (See Hamilton, Alexander P., assignor.)
Everhart, Charles O., Warren, Pa. Liquid or vapor fuel burner. 1,455,135; May 15.
Evin, Israel J., Altoona, Pa. Dress guard and chair holder. 1,455,722; May 15.
Excelsior Cycle Company. (See Baine, James C., assignor.)
Exum, Mary E., Wilson, N. C. Portable serving table. 1,455,395; May 15.
Fair, Charles S., et al., administrators. (See Bowser, Augustus.)
Fairbrother, Thomas H., and A. Renshaw, assignors to British Dyestuffs Corporation Limited, Manchester, England. Treatment of sewage. 1,455,435; May 15.
Fangel, Carl J., McAlester, Okla. Fender brace. 1,455,827; May 15.
Fargo, Charles R., assignor to Wilson-Jones Loose Leaf Co., Chicago, Ill. Loose-leaf-binder support. 1,455,524; May 15.
Faustini, Quinto, Cleveland, Ohio. Scrubbing machine. 1,455,746; May 15.
Federal Products Company, The. (See Coates, Frederick, assignor.)
Feese, Elmer L., Plevna, Kans. Adjustable bearing. 1,455,328; May 15.
Fendring, Harry E., Los Angeles, Calif. Gas furnace. 1,454,963; May 15.
Ferguson, George, assignor to Apeldoornsche Machinefabriek en Melaalgieterij Voorheen Loog Landaal, Apeldoorn, Netherlands. Refrigerating system. 1,455,580; May 15.
Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber sole. 1,454,885; May 15.
Ferguson Furnace Company. (See Bluemel, Gustave, assignor.)
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating device. 1,454,922; May 15.
Fifield, George H., Culver, assignor to Standard Oil Company, Whiting, Ind. Filtration. 1,455,436; May 15.
Finley, Henry B., Chattanooga, Tenn. Manufacturing sheet-metal receptacles or containers. 1,455,525; May 15.
Finnell, Charlie, Alexandria, Va. Lubricating system. 1,455,244; May 15.
Fippenger, Elmer G., Nekoosa, Wis. Blower for silos. 1,455,329; May 15.
Fisk Rubber Company. (See Midgley, Thomas, assignor.)
Fitz Gerald, Harold G., Los Angeles, Calif. Lamp. 1,455,245; May 15.
Flack, Paul M., Ogdensburg, N. Y. Automobile direction indicator. 1,455,581; May 15.
Flam, John. (See Cook, Carl F., assignor.)
Flowers, Stanley A., assignor of one-third to J. L. Palley and one-third to J. Heaton, Pittsburgh, Pa. Rear-signal device for automobiles. 1,455,526; May 15.
Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Core holder or support. 1,455,195; May 15.
Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Cross-footer register for writing adding machines. 1,455,196; May 15.
Ford, Ben K., Oak Park, assignor to Union Bed and Spring Company, Chicago, Ill. Bedspring frame. 1,454,964; May 15.
Ford, William W., Philadelphia, Pa. Metal cover for tanks. 1,455,582; May 15.
Fordyce, Riley, Dixon, Ill. Cable hanger. 1,455,330; May 15.
Fort Pitt Bedding Company. (See Trimble, Charles P., assignor.)
Fosdick, Robert E., Cincinnati, Ohio. Grinding apparatus. 1,455,286; May 15.
Foster, Walter H. (See Savico, Charles L., assignor.)
Franco, Raffaele, and G. Ester, Newark, N. J. Direction indicator for vehicles. 1,455,331; May 15.
Franklin, Raymond. (See Bonnet, F. C., and Franklin.)
Freeman, Lewis D. (See Hunt, R., and Freeman.)
Friend, Clive A. (See Cowen, W. L., and Friend.)
Fuchs & Lang Manufacturing Company, The. (See McClelland, William A., assignor.)
Fulton Company, The. (See Giesler, Jean V., assignor.)
Furstenau, Martin C., Philadelphia, Pa. Electric immersion heater. 1,455,246; May 15.
Fussner, George. (See Stercklen, Prosper, assignor.)
G. & J. Tire Company. (See Stephenson, Ralph E., assignor.)
Gair, Robert, Company. (See Relihan, William, assignor.)
Gans, Albert J., assignor to Einson-Freeman Company, New York, N. Y. Combined shipping, dispensing, and display box or carton. 1,454,849; May 15.
Gasoline Recovery Corporation. (See Oberfell, G. G., and Burrell, assignors.)
Gathmann, Emil, Baltimore, Md. Ingot mold and ingot. 1,455,197; May 15.
Gaughan, John J. (See La Fayette, T. E., Glidden, and Gaughan.)
Gaumont, Léon, and L. R. Decaux, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Method of and apparatus for distant regulation of cinematographic objectives. 1,454,850; May 15.
Geare, R. E., Spencer. (See Brown, Eugene L., jr., assignor.)
Geare, Randolph E. S., Chicago, Ill. Chain grate. 1,454,965; May 15.
Geiver, Hugh E., Wessington, S. Dak. Split demountable rim. 1,455,481; May 15.
General Electric Company. (See Baker, Walter R. G., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Motors Corporation. (See Bower, F. A., and Cataline, assignors.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
Gentsel, Perry H., Newton, Mass. Oil separator. 1,455,136; May 15.
George Cutter Company. (See Larkins, Ernest M., assignor.)
Geraghty, John P., Jersey City, N. J. Automobile lock. 1,455,583; May 15.
Gerdil, Henri P., Paris, France. Drill. 1,454,851; May 15.
Gesellschaft für Maschinelle Druckentwasserung mit beschränkter Haftung. (See Horst, Heins, assignor.)

Gibson, Joseph P., Spring Valley, Ill. Drawer-locking device for trunks. 1,455,196; May 15.
Gibson, William A., Detroit, Mich. Disk wheel. 1,455,332; May 15.
Gies, Frank G., assignor of one-half to T. G. Murton. Detroit, Mich. Truck-body hoist. 1,454,966; May 15.
Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Pump. 1,454,986; May 15.
Gilchrist, Vincent T., assignor to Superior Process Refining Company, San Francisco, Calif. Petroleum-distillation process. 1,455,437; May 15.
Giles, Donald M. (See Giles, John H. and D. M.)
Giles, John H., and D. M., Philadelphia, Pa. Yarn-stick-supporting member for dyeing machines. 1,455,247; May 15.
Gill, James H. W., Norfolk, assignor to Gill Propeller Company Limited, King's Lynn, England. Screw propeller and similar appliances. 1,454,967; May 15.
Gill Propeller Company, Limited. (See Gill, James H. W., assignor.)
Gillette Rubber Co. (See Hutchens, R. W., and Smith, assignors.)
Giovannini, Sebastian, Chicago, Ill. Frictionless air brake. 1,454,887; May 15.
Gleason, Dora P., Cincinnati, Ohio. Indicator for timepieces. 1,455,482; May 15.
Glidden, Alfred A. (See La Fayette, T. E., Glidden, and Gaughan.)
Goffart, Paul, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del. Coke oven. 1,455,527; May 15.
Goldschmidt, Robert B., and R. Braillard, Paris, France. Electro-mechanical differential governor. 1,455,483; May 15.
Goodrich, B. F., Company, The. (See Young, Harvey L., assignor.)
Goodrich, B. C., et al. (See Wood, Charles R., assignor.)
Goold, Luella L., Arlington, Mass. Hypodermic syringe. 1,455,047; May 15.
Govin, Henry W., Northboro, Mass. Feed-weight adjustment. 1,454,852; May 15.
Graham Brothers. (See Dunham, George W., assignor.)
Graham, Howard, Knippa, Tex. Tire pump. 1,455,584; May 15.
Gravely, George D. (See Downie, C. E., and Gravely.)
Greaves, Alfred J., Peckham Rye, London, England. Receptacle for mustard and other condiments. 1,455,333; May 15.
Greco, Gaetano, and K. G. Wolff, Newark, N. J. Crystal detector. 1,454,997; May 15.
Green & Green Company, The. (See Green, Weston, assignor.)
Green, Weston, assignor to The Green & Green Company, Dayton, Ohio. System for selling and packing food products. 1,454,888; May 15.
Greene, Albert E., Seattle, Wash. Electric induction furnace. 1,455,748; May 15.
Greene, Albert E., Seattle, Wash., and W. B. Runyan, Dayton, Ohio. Electric process of continuously heating metal. 1,455,747; May 15.
Greist Manufacturing Company, The. (See Lent, Wilmar F., assignor.)
Grenda, Lorenz D., Chicago, Ill. Iron rest and cleaner. 1,455,484; May 15.
Grey, Charles M., East Orange, N. J. Casting die. 1,455,248; May 15.
Grier Brothers Company. (See Jacobson, J. W., and Turja, assignors.)
Griffith, Benjamin M., assignor to National Casket Company, Pittsburgh, Pa. Dipping machine. 1,455,585; May 15.
Griffiths, Harry R., and S. G. Walker, Baltimore, Md. Railway brake. 1,455,137; May 15.
Groten, Frank J., jr., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Coil and condenser treatment. 1,455,199; May 15.
Groten, Frank J., jr., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Insulating composition for electrical apparatus. 1,455,200; May 15.
Grove, William C., Basic, Va. Medical compound. 1,455,485; May 15.
Grover, Albert D., Long Island City, N. Y. Mute for stringed musical instruments. 1,454,923; May 15.
Grünhagen, Heinrich, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Dyes of the acridine series and their manufacture. 1,455,486; May 15.
Grünhagen, Heinrich, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Dyes of the acridine series and their manufacture. 1,455,487; May 15.
Grünhagen, Heinrich, Berlin-Karlshorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Dyes of benzene-napthalene-acridine series and their manufacture. 1,455,488; May 15.
Gunning, William A. (See Maynard, A. E., and Gunning.)
Gustafson, Arthur H., Chicago, Ill., assignor to H. E. Holbrook, Boston, Mass. Machine for sealing circulars. 1,454,889; May 15.
Guthard, Edgar C. (See O'Neill, William J., assignor.)
Habenicht, Charles A., San Francisco, Calif. Automobile lock. 1,455,138; May 15.
Hadley, Idale L., Hartford, Conn. Electric heater. 1,455,287; May 15.
Hajek, Vladimir, Prague, Czechoslovakia. Stream-flow-controlling instrumentality. 1,455,586; May 15.
Haley, Henry V., Oklahoma, Okla., assignor to International Cotton Protecting Company, Dover, Del. Cotton bale and material and method for rendering the same proof against fire and country damage. 1,455,749; May 15.
Hall, Alzira C., executrix. (See Hall, George M.)
Hall, Frederick C., and J. Townson, assignors to Jenckes Spinning Company, Pawtucket, R. I. Loom. 1,455,048; May 15.
Hall, George M., deceased, by A. C. Hall, executrix, Baird, Tex. Hydrant box and lid. 1,455,723; May 15.
Hallanan, Michael, New York, N. Y. Nonslip device for horses. 1,454,999; May 15.
Haller, Harrison F., Ilion, N. Y. Automatic train stop and control mechanism. 1,455,115; May 15.
Halvorsen, Severin, assignor to Newspaper Stuffing Machines Co., Seattle, Wash. Newspaper-stacking mechanism. 1,454,924; May 15.
Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
Hamilton, Alexander P., Troy, Ohio, assignor to P. Evans, Philadelphia, Pa. Clutch. 1,455,587; May 15.
Hammermill Paper Company. (See Lucey, William S., assignor.)
Hanley, William L., jr., Bradford, Pa. Apparatus for the manufacture of hollow tile. 1,455,249; May 15.
Hannaford, Cleon M., Richmond, Va. Angle-cock holder. 1,455,609; May 15.
Hansen, Arthur E., assignor to Young Iron Works, Inc., Seattle, Wash. Hydraulic hoist for trucks. 1,455,528; May 15.
Hansen, Henry J. (See Schowe, H. G., and Hansen.)
Hanrahan, John J., Niagara Falls, N. Y. Luggage carrier. 1,455,023; May 15.
Hantsch, Alfred P., New Brunswick, N. J. Photographic plate and utilizing the same. 1,455,724; May 15.
Hardenburg, Howard R. (See Sager, F., and Hardenburg.)
Hardinge Brothers, Inc. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,455,049; May 15.
Hardy, Winfield A., Brooklyn, N. Y. Index tab. 1,455,288; May 15.
Harmon, William M. (See Butcher, William L., assignor.)
Harpe, Larrabee B., Louisville, Ky. Snap fastener. 1,454,890; May 15.
Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Electric dehydrator. 1,455,139; May 15.
Harris, Frederick H., Chicago, Ill. Temporary or loose-leaf binder. 1,455,000; May 15.
Hartford-Fairmont Company. (See Lorenz, William A., assignor.)
Hartman, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning machines. 1,455,529; May 15.
Hartman, Harry B., Scottdale, Pa. Safety razor. 1,455,725; May 15.
Hartman, Harry B., Scottdale, Pa. Safety razor. 1,455,726; May 15.
Hartman, Harry B., Scottdale, Pa. Safety razor. 1,455,750; May 15.
Hartman, Harry B., Scottdale, Pa. Safety razor. 1,455,751; May 15.
Haskell, Alfred T., Newtonville, Mass. Display device. 1,455,610; May 15.
Hattner, Abraham, et al. (See Morrison, Tom, assignor.)
Hauton Corporation, The. (See Hauton, Paul S., assignor.)
Hauton, Paul S., Elizabeth, N. J., assignor to The Hauton Corporation. Fountain-pen filler. 1,455,611; May 15.
Haege, Louis, New Memphis, Ill. Animal trap. 1,454,998; May 15.
Heath, Clarence W., Sand Springs, Okla. Railway fare ticket. 1,455,050; May 15.
Heaton, John, et al. (See Flowers, Stanley A., assignor.)
Heene, George W., Cleveland, Ohio. Blank for emblems and the like. 1,455,289; May 15.
Heeter, Charles M., Butler, Pa. Pipe grip. 1,455,612; May 15.
Heller, L., & Son, Inc. (See Heller, Samuel, assignor.)
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,375; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,376; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,377; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,378; May 15.

Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,379; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,380; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,381; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,382; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,383; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,384; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,385; May 15.
Heller, Samuel, assignor to L. Heller & Son, Inc., New York, N. Y. Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. Des. 62,386; May 15.
Heller Tool Company. (See Lyons, W. W., and McElroy, assignors.)
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,454,925; May 15.
Henry, James A., and T. S. Wait, Sturges, Mich. Forming machine. 1,455,489; May 15.
Henshaw, Thomas. (See Johnson, Albert, assignor.)
Heppenstall, Samuel B., Pittsburgh, Pa. Tongs. 1,455,613; May 15.
Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Chime-rod holder for clocks. 1,455,024; May 15.
Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriter machine. 1,455,201; May 15.
Hesson, William W., Toronto, Ontario, Canada. Composition for tobacco pipes. 1,455,396; May 15.
Heuckendorff, Arnold, Oakland, Calif. Pea-hulling machine. 1,455,202; May 15.
Heuer, Fred T., and G. D. Latta, Princeton, Ill.; said Latta assignor to said Heuer. Tractor attachment. 1,455,614; May 15.
Heuisler, Philip I., assignor to Maryland Glass Corporation, Baltimore, Md. Ash tray. Des. 62,352; May 15.
Heuser, Hermann, Evanston, Ill. Manufacture of low-alcoholic beverages. 1,455,397; May 15.
Hieb, Jacob, Seattle, Wash. Electric bake oven. 1,455,290; May 15.
Higuchi, Monnosuke, College Point, N. Y. Amusement apparatus. 1,454,968; May 15.
Hill, Edward J., Philadelphia, Pa. Lifting device. 1,455,727; May 15.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens block. 1,455,438; May 15.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens holder. 1,455,439; May 15.
Hildebrand, Reinhard, Webster Groves, Mo., assignor of one-half to G. D. Fogue, Philadelphia, Pa. Crosshead design for reciprocating engines. 1,455,334; May 15.
Hiller, Joseph J., and E. R. Strenger, assignors of one-third to L. J. Venuto, Philadelphia, Pa. Window-cleaning device. 1,455,398; May 15.
Hinderliter, Amos R., Falls Creek, Pa. Shade holder. 1,455,166; May 15.
Hirsh, Allan M., Montclair, and J. C. Mitchell, East Orange, assignors, to Lock Joint Pipe Company, Ampere, N. J. Pipe joint. 1,455,250; May 15.
Hoagland, Robroy C., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Automobile top. 1,455,203; May 15.
Hodge, Eugene L., Far Rockaway, N. Y. Automobile tire. 1,455,615; May 15.
Hodgkiss, Frank, Oakland, Calif. Tractor. 1,455,616; May 15.
Hoe, R., & Co. (See White, Bruce C., assignor.)
Hoffman-La Roche Chemical Works. (See Preiswerk, Ernst, assignor.)
Hoffman, Morris J., Chicago, Ill. Production-recording device. 1,455,530; May 15.
Hoffman, Morris J., Chicago, Ill. Printing device. 1,455,588; May 15.
Hoffmann, Paul W., New York, N. Y. Therapeutic vibrator. 1,455,291; May 15.
Hodinger, Florent, Brussels, Belgium. Manufacturing flutes. 1,455,440; May 15.
Holbrook, Henry E. (See Gustafson, Arthur H., assignor.)
Holliday, John S., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,455,761; May 15.
Holloway, William W., Wheeling, W. Va., and H. Kielberg, Martins Ferry, Ohio, assignors to Whitaker Glessner, Wheeling, W. Va. Radiant gas heater. 1,455,051; May 15.
Holloway, William W., Wheeling, W. Va., and H. Kielberg, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va. Radiant support and holder for gas heaters. 1,455,052; May 15.
Holloway, William W., Wheeling, W. Va., and H. Kielberg, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va. Substructure for stoves. 1,455,053; May 15.
Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
Holt Manufacturing Company, The. (See Stegeman, Henry J., assignor.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Removable grouser for track links. 1,455,490; May 15.
Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Weight-equalization device. 1,454,926; May 15.
Honda, Yakichi, Fowler, Calif. Stop and turn signal. 1,455,001; May 15.
Hood Rubber Company. (See La Fayette, T. E., Glidden, and Gaughan, assignors.)
Hopson, Edward H., Brooklyn, assignor to Merritt & Chapman Derrick & Wrecking Company, New York, N. Y. Pile-driving apparatus. 1,454,927; May 15.
Hornby, Frank, assignor to Meccano Limited, Liverpool, England. Motor. 1,454,969; May 15.
Hornby, Frank, assignor to Meccano Limited, Liverpool, England. Switch. 1,454,970; May 15.
Horsley, Robert L., Memphis, Tenn. Bale-tie buckle. 1,455,204; May 15.
Horst, Heinz, assignor to Gesellschaft für Maschinelle Druckentwasserung mit beschränkter Haftung, Uerdingen-on-the-Rhine, Germany. Removal of water from colloidally-dissolved substances such as crude peat, coal sludge, and the like. 1,455,728; May 15.
Houghton, E. F., & Co. (See Peirson, C. H., and Bohue, assignors.)
Hovey, Ralph J., Chicago, Ill. Electric sadiron. 1,455,205; May 15.
Howard, Guy C., Seattle, Wash. Recovering cork and other products from bark. 1,455,762; May 15.
Howe, William G., Des Moines, and F. R. White, Ames, Iowa. Excavating machine. 1,455,206; May 15.
Howell, James B., St. Joseph, Mo. Clutch-release lever. 1,454,891; May 15.
Huet, Emile, Brussels, Belgium. Electric clutch coupling for use in dental technics. 1,455,491; May 15.
Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
Hunt, Robert, and L. D. Freeman, Portsmouth, Va., assignors, by mesne assignments, to Union Metal Products Company, Chicago, Ill. Grease cup. 1,454,892; May 15.
Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door lock. 1,455,251; May 15.
Hurtt, George W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,454,928; May 15.
Hutchens, Ralph W., and S. H. Smith, Eau Claire, Wis., assignors to Gillette Rubber Co. Bead-forming machine. 1,455,207; May 15.
Hyman, Arthur S., Newark, N. J. Alloy. 1,455,531; May 15.
Illinois Gasket Co. (See Zommer, W. P., and Magdziarz, assignors.)
Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
Ingman, Oscar, Calumet, Mich. Harrower and pulverizer. 1,455,729; May 15.
Ingram, Oscar L., Walla Walla, Wash. Demountable rim. 1,455,730; May 15.
Ingram, Walter B., St. Louis, Mo. Thermo system for internal-combustion engines. 1,455,335; May 15.
Intarvin Co. Inc. (See Kahn, Max, assignor.)
International Clay Machinery Company. (See Wentzel, Clifford E., assignor.)
International Cotton Protecting Company. (See Haley, Henry V., assignor.)
International Harvester Company. (See Cox, Henry G., assignor.)
Irwin, Herbert G., Floydada, Tex. Heating primer. 1,454,929; May 15.
Ivandick, Mathew G., North Chicago, Ill. Automobile signal. 1,455,054; May 15.
Jackson, Frank W., Tompkinsville, N. Y. Automobile tool. 1,455,617; May 15.
Jackson, Henry O., Denver, Colo., assignor to National Pump Company. Rotary pump. 1,455,252; May 15.
Jackson, James D., Manly, near Sydney, New South Wales, Australia. Cooking stove. 1,455,202; May 15.
Jackson, Maurice, Eldorado, Kans. Saw sharpening and setting device. 1,454,893; May 15.
Jacobsen, Andrew, assignor to W. Larsen, Green Bay, Wis. Pea cleaner. 1,455,208; May 15.

Jacobsen, Richard S., assignor, by mesne assignments, to Webster Mfg. Co. Conveyer mechanism. 1,455,336; May 15.

Jacobson, Jacob W., and J. E. Turja, Hancock, Mich., assignors, by mesne assignments, to Grier Brothers Company, Pittsburgh, Pa. Cleaner for burners of carbide lamps and the like. Re15,598; May 15.

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Regulating device. 1,455,337; May 15.

Jaggers, William J., Southend-on-Sea, assignor to J. C. Eno Limited, London, England. Fastening device for cases or similar receptacles. 1,455,253; May 15.

James, Arthur M., Johnstown, Pa. Detonator magazine. 1,455,492; May 15.

James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,455,618; May 15.

James, William B., Los Angeles, Calif. Container for toilet creams and the like. Des. 62,362; May 15.

Jenckes Spinning Company. (See Hall, F. C., and Townson, assignor.)

Jenny, Karl K., and W. Balzer-Alber, Basel, Switzerland. Self-acting eye protector. 1,455,025; May 15.

John, Noah O., Marshall, Okla. Drawbar and power attachment for tractors. 1,455,493; May 15.

Johnson, Albert, assignor to T. Henshaw, Liverpool, England. Ladder foot. 1,455,002; May 15.

Johnson, Clifford S., assignor of one-half to M. M. Marsh, Mobile, Ala. Ice box or refrigerator. 1,455,003; May 15.

Johnson, Henry F., Chicago, Ill. Messenger's safety carrying case. 1,454,894; May 15.

Johnson, Joe, assignor of one-half to J. A. Burleigh, Enterprise, Oreg. Brake-operating mechanism for vehicles. 1,455,619; May 15.

Johnson, John H., assignor of one-fourth to T. Marks, Charleston, S. C. Ditching machine. 1,455,494; May 19.

Johnson, John N., Albuquerque, N. Mex. Safety razor. 1,455,532; May 15.

Jones, Charles W., New Hampton, Mo. Check-pad holder. 1,455,620; May 15.

Jones, Edwin A., St. Louis, Mo. Heating system. 1,455,338; May 15.

Jones, George G., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrolysis mitigation. 1,454,895; May 15.

Jones, John R., Milwaukee, Wis. Pin lifter. 1,455,533; May 15.

Jorgensen, Hans L., and A. N. Poulin, Chicago, Ill. Safety sadiron holder. 1,455,026; May 15.

Joslin, John, Princeville, Ill. Hand reel. 1,455,167; May 15.

Joyner, William H., East Bernstadt, Ky. Surgical saw. 1,455,621; May 15.

Kahn, Max, New York, N. Y., assignor to Intarvin Co. Inc. Utilization of edible fats. 1,455,254; May 15.

Kapelman, Felix G., New York, N. Y. Combination chair. 1,455,255; May 15.

Karish, Isaak, and J. Kernes, Chicago, Ill. Phonograph. 1,455,209; May 15.

Kaufmann, Siegfried H., London, England. Case for manicure instruments. 1,455,004; May 15.

Keavaney, William E., assignor to The Chase Companies, Inc., Waterbury, Conn. Flush wall receptacle plate. 1,455,399; May 15.

Keesee, Wesley E., Huntington Park, Calif. Combined lubricating-oil and gasoline dispensing apparatus. Des. 62,363; May 15.

Keim, Lester H., Chicago, Ill., assignor to R. D. Nuttall Company. Transmission mechanism. 1,454,930; May 15.

Keller, Daniel W., Hartshorne, Okla. Drift and fish retarder. 1,455,210; May 15.

Keller, Joseph F., New York, and F. J. Badge, Woodhaven, assignors to Keller Mechanical Engraving Co., Brooklyn, N. Y. Circular slide rule. 1,455,839; May 15.

Keller, Kent E., Ava, Ill. Valve for exposive engines. 1,455,055; May 15.

Keller Mechanical Engraving Co. (See Keller, J. F., and Badge, assignors.)

Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Window frame. 1,455,340; May 15.

Kelly, John F., Chicago, Ill., assignor, by mesne assignments, to Kelly Valve Company, Muskegon, Mich. Boiler-water-level controller. 1,455,211; May 15.

Kelly, Thomas J., Los Angeles, Calif. Automatic blow-out preventer. 1,455,731; May 15.

Kelly Valve Company. (See Kelly, John F., assignor.)

Kelvinator Corporation. See De Luiz, Edward R., assignor.)

Kernes, James. (See Karish, I., and Kernes.)

Keyes, Edwin C., Elyria, Ohio. Legging. 1,455,400; May 15.

Kielberg, Henry. (See Holloway, W. W., and Kielberg.)

Kight, Rochell E. (See Thomas, S. G., and Kight.)

Kindelberger, Jacob W. (See Croson, C. R., and Kindelberger.)

Kindell, Charles E., administrator. (See Leech, Charles M.)

King, Charles, Chaffee, Mo. Wick for oil stoves. 1,455,212; May 15.

Kintsing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,454,853; May 15.

Kiracofe, Otha B., Churchville, Va. Lifting jack. 1,455,622; May 15.

Kirk, Henry C., Roland Park, and G. H. Dumler, Baltimore, Md. Alloy. 1,455,589; May 15.

Kirk, Jay B., Iola, Kans. Cleaning device. 1,455,623; May 15.

Kirkpatrick, Bert S., San Pablo, and F. S. Morgan, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Producing anhydrous metallic chloride. 1,455,005; May 15.

Klages, August, Magdeburg-Südost, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Mercury derivatives of aromatic compounds and manufacturing same. 1,455,495; May 15.

Klausmeyer, David C., Hyde Park, Cincinnati, assignor to Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Reversing mechanism having stationary sleeves. 1,455,401; May 15.

Kline, Henry T., Warsaw, Ind. Fencepost. 1,455,168; May 15.

Klinger, F. W., & Langbein Co. (See Langbein, Albert S., assignor.)

Kloetzer, Otto F., Washington, Ind. Train-order holder and hook. 1,454,896; May 15.

Klumpp, August F. (See Charlton, Robert W., assignor.)

Koch, William E., New Rochelle, N. Y. Subsurface fish bait. 1,455,624; May 15.

Koenig, Robert, Haddon Heights, N. J. Vial-bottoming machine. 1,455,056; May 15.

Kolarik, Frank, Manitowoc County, Wis. Self-feeder for feed cutters. 1,455,402; May 15.

Kolling, Henry C., and W. McGill, Wichita, Kans. Adjustable track. 1,455,293; May 15.

Kondrad, Piotr, Wilkes-Barre, Pa. Lock. 1,455,294; May 15.

Konefes, Joseph H., Chicago, Ill. Bottle feeding and guiding device. 1,454,931; May 15.

Koon, James H., Onarga, Ill. Stock car. 1,455,006; May 15.

Kopf, Joseph B., Rockville Center, N. Y. Hopple. 1,455,341; May 15.

Koppers Company, The. (See van Ackeren, Joseph, assignor.)

Kraeuter, Arthur A., South Orange, N. J., assignor to Kroydon Co. Golf club. 1,455,256; May 15.

Kraft, Henry P., Ridgewood, N. J. Pneumatic valve. 1,454,854; May 15.

Kroydon Co. (See Kraeuter, Arthur A., assignor.)

Kruse, Charlie, San Luis Obispo, Calif. Hydraulic transmission. 1,455,295; May 15.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,455,496; May 15.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,455,497; May 15.

Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Coin bank. 1,455,498; May 15.

La Fayette, Theodore E., A. A. Glidden, and J. J. Gaughan, assignors to Hood Rubber Company, Watertown, Mass. Rubber footwear. 1,455,140; May 15.

La Hodny, William, Buffalo, N. Y. Bracket for supporting mirrors and the like. 1,455,441; May 15.

Lang, Charles E., Wichita Falls, Tex. Well fishing tool. 1,455,499; May 15.

Langbein, Albert S., assignor to F. W. Klinger & Langbein Co., Philadelphia, Pa. Fisherman's fly book. 1,454,932; May 15.

Langenau, Jacob F., assignor to The Langenau Manufacturing Company, Cleveland, Ohio. Fastening device. 1,455,625; May 15.

Langenau Manufacturing Company, The. (See Langenau, Jacob F., assignor.)

Langston, Samuel M., Wenonah, N. J. Making shingle stripe. 1,455,342; May 15.

Larivel, Felice F., Bath, England. Machinery for dyeing and treating textiles. 1,454,897; May 15.

Larkins, Ernest M., assignor to George Cutter Company, South Bend, Ind. Lamp hanger. 1,454,855; May 15.

Larsen, William. (See Jacobsen, Andrew, assignor.)

Larson, Alfred O., Rio, Wis. Spring-motor-driven fan and stop therefor. 1,455,534; May 15.

Larson, Walfrid, Kingsburg, Calif. Water pump. 1,455,626; May 15.

Larsson, Thure, assignor to Norton Company, Worcester, Mass. Dressing tool for grinding wheels. 1,455,213; May 15.

Lash, David C., Shirley, Mass. Garter. 1,454,933; May 15.

Latta, George D. (See Heuer, F. T., and Latta.)

Lawson, Alfred A., Windsor, Ontario, Canada. Key fastener. 1,455,627; May 15.

Lawson, George W., New York, N. Y. Marine propeller. 1,455,591; May 15.

Laxsari, Leone, Greenville, N. J. Ventilated waterproof shoe. 1,455,535; May 15.

Leber, George J., Cleveland, Ohio. Washline reel. 1,455,843; May 15.

Lebherz, Harry J., Frederick, Md. Bag support. 1,455,536; May 15.

Lee, Bernard S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,454,698; May 15.

Leech, Charles M., deceased, Lima, Ohio; C. E. Kindell, administrator. Internal-combustion engine. 1,454,934; May 15.

Leeds & Northrup Company. (See Brewer, Henry, assignor.)

Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-speed camera. 1,454,899; May 15.

Lendi, George G., Brooklyn, N. Y. Hoisting apparatus. 1,455,214; May 15.

Lent, Wilmar F., assignor to The Greist Manufacturing Company, New Haven, Conn. Base for portable lamps. 1,454,935; May 15.

Lent, Wilmar F., assignor to The Greist Manufacturing Company, New Haven, Conn. Portable lamp. 1,455,592; May 15.

Lepermentier, Robert, Bordeaux, France. Propeller for aerial machines. 1,455,442; May15.

Leroy, Jules, Paris, France. Fuel pump for internal-combustion engines. 1,455,628; May 15.

Lesage, Charles F., Pont-Remy, Somme, France. Textile machine for flax and like textile substances. 1,455,629; May 15.

Levene, Arthur E., Seattle, Wash. Safety razor. 1,454,936; May 15.

Leventry, Henry F., Johnstown, Pa. Billiard-cue rack. 1,454,900; May 15.

Levin, Jacob H., Minneapolis, Minn. Day-bed lounge. 1,455,215; May 15.

Lewin, Joshua A., and G. P. Bartlett, Durban, Natal, South Africa. Liquid-dispensing apparatus. 1,455,593; May 15.

Lewis, Joseph, Winnipeg, Manitoba, Canada. Register for printing machines. 1,455,500; May 15.

Lyndon, Lamar, New York, N. Y. Vent plug for storage batteries. 1,455,344; May 15.

Liberty Reed Company, The. (See Lindsay, Hamilton, assignor.)

Lindley, Francis S., East Bakersfield, Calif. Concrete-block machine. 1,455,296; May 15.

Lindsay, Bert, assignor of one-fourth to L. Lindsay, one-fourth to F. Lindsay, and one-fourth to W. Lindsay, Antigo, Wis. Automatic lock nut. 1,455,057; May 15.

Lindsay, Frank, et al. (See Lindsay, Bert, assignor.)

Lindsay, Hamilton, assignor to The Liberty Reed Company, Cleveland, Ohio. Reed for weaving wire cloth. 1,455,537; May 15.

Lindsay, Leon, et al (See Lindsay, Bert, assignor.)

Lindsay, William, et al. (See Lindsay, Bert, assignor.)

Lins, Martin J., St. Paul, Minn. Car seal. 1,455,403; May 15.

Lipcsey, Frank L. (See MacKillican, J. A., and Lipcsey.)

Littler, Carl W. (See Marquard, F. F., and Littler.)

Lloyd, John A., Coventry, England, assignor to Courtaulds Limited, London, England. Preparation of starch and sulphuric acid. 1,455,630; May 15.

Lock Joint Pipe Company. (See Hirsh, A. M., and Mitchell, assignors.)

Locomotive Pulverized Fuel Company. (See Muhlfeld, J. E., and Caracristi, assignors.)

Locomotive Stoker Company. (See Lower, Nathan M., assignor.)

Lombardi, Michael, Louisville, Colo. Ash-pan lifter. 1,455,216; May 15

Lorens, William A., Hartford, Conn., assignor to Hartford-Fairmount Company, Canajoharie, N. Y. Process of and apparatus for feeding molten glass. Re15,600; May 15.

Love, Samuel D., Rahway, N. J., assignor to Allen Pressure System Co. Inc., New York, N. Y. Liquid-dispensing system. 1,454,971; May 15.

Lowe, Edward L., Palo Alto, Calif. Burner for internal-combustion engines. 1,454,972; May 15.

Lowell, Percival D., and F. W. Dunmore, Washington, D. C. Radio receiving apparatus. 1,455,141; May 15.

Lowenstein, M., & Sons, Inc. (See Reimann, Paul, assignor.)

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,455,058; May 15.

Loy, Thomas H., Bellaire, Ohio. Controlling mechanism for sound-reproducing machines. 1,455,631; May 15.

Loyd, Joseph D., Houston, La. Rotary table for well boring. 1,455,142; May 15.

Luallen, Calvin L., assignor of two-thirds to H. M. Madden, Coal Creek, Tenn. Horseshoe. 1,455,632; May 15.

Lucey, William S., assignor to Hammermill Paper Company, Erie, Pa. Manufacturing watermarked paper. 1,455,752; May 15.

Ludlam, Malcolm C. (See Campbell, John P., assignor.)

Ludlow, Edgar S., Cleveland Heights, Ohio. Fender protector. 1,455,538; May 15.

Ludwig, Joseph J. (See Reilley, C. F., and Ludwig.)

Ludwig, Martin, Albany, Oreg. Stovepipe-reducing joint. 1,455,027; May 15.

Lufkin Rule Company, The. (See Buck, Fred, assignor.)

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Wilcke, Oscar, assignor.)

Lumley, Frank E., Omaha, Nebr. Vacuum cleaning apparatus. 1,455,116; May 15.

Lundgaard, Ivar, Rochester, N. Y. Pyrometer. 1,455,633; May 15.

Lyons, William W., and G. E. McElroy, assignors to Heller Tool Company, Newark, N. J. Cutting tool. 1,455,297; May 15.

McArdle, Fred W., Boston, Mass. Machine for molding articles from plastic material. 1,455,634; May 15.

McArthur, Neill D., Danville, Va. Sawing machine. 1,454,901; May 15.

McBee Binder Company. (See McBee, Harry B., assignor.)

McBee, Harry B., St. Louis, Mo., assignor to McBee Binder Company, Athens, Ohio. Mounting for make-up frames for printing presses. 1,455,257; May 15.

McCabe, James L., Wichita, Kans. Electrically-operating treating chamber for hydrocarbon vapors and gases. 1,455,088; May 15.

McClain, John W., Chicago, Ill. Self-lighting cigarette. 1,454,902; May 15.

McCleary, Lenwood, Chicago, Ill. Bell ringer. 1,455,635; May 15.

McClelland, William A., Ridgewood, N. J., assignor to The Fuchs & Lang Manufacturing Company. Collector receptacle. 1,455,117; May 15.

McConnal, James C., Detroit, Mich. Clothesline holder. 1,455,636; May 15.

McCord, Alvin C., Chicago, Ill. Air-cooled engine cylinder and making same. 1,455,028; May 15.

McCord, Charles J., Alpha, Mich. Wheel. 1,455,637; May 15.

McCoy, William P., Yonkers, N. Y. Tobacco-smoking pipe. 1,455,539; May 15.

McElroy, George E. (See Lyons, W. W., and McElroy.)

McFarlane, Malcolm J., New Orleans, La. Fireless cooker and heater. 1,455,638; May 15.

McGee, Charles J., Osceola, Ark. Cloth cutting machine. 1,455,501; May 15.

McGill, William. (See Kolling, H. C., and McGill.)

McGinnis, John A., Wheeling, W. Va., assignor to Wheeling Stamping Company. Feeder for metal blanks. 1,455,639; May 15.

McGreer, Ray and H. J. Belcher, Oklahoma, Okla. Machine for cutting butter. 1,455,258; May 15.

McGuire Band and Lining Mfg. Co. (See McGuire, William A., assignor.)

McGuire, William A., assignor to McGuire Band and Lining Mfg. Co., Turtle Creek, Pa. Detachable brake and transmission band lining. 1,455,259; May 15.

McManus, Charles E., New York, N. Y. Drying oven for printed metal sheets. 1,455,540; May 15.

McNamara, John J., Mountain Ranch, Calif. Rock drill. 1,455,640; May 15.

Melfac, A. K., et al. (See Vallot, André, assignor.)

MacKillican, James A., and F. L. Lipcsey, Hibbing, Minn. Excavating machine. 1,455,541; May 15.

Mabbey, Harry A., Lima, Ohio. Burnishing-wheel cover. 1,455,298; May 15.

Madden, Horace M. (See Luallen, Calvin L., assignor.)

Magdziarz, George F. (See Zommer, W. P., and Magdziarz.)

Mahoney, John M., Houston, Tex. Still. 1,455,642; May 15.

Mahon, Howard C., East Liverpool, Ohio. Anchoring device. 1,455,641; May 15.

Maimin, Hyman, New York, N. Y. Mounting for sewing-machine motors. 1,455,345; May 15.

Maison Detilleux, Société Anonyme. (See Brunet, Maurice, assignor.)

Majestic Company, The. (See Triggs, James M., assignor.)

Malloy, Angus P., jr., Seattle, Wash. Shock absorber. 1,454,973; May 15.

Manning, Stephen W., Altoona, Pa. Follower ring. 1,455,643; May 15.

Manock, Julius C., Angiola, Calif. Auxiliary-tire carrier. 1,455,118; May 15.

Manock, Julius C., Angiola, Calif. Securing means for spare tires. 1,455,119; May 15.

Marchetti, Pericles, Godoy, Santa Fe, Argentina, assignor to Sindicato Argentino Para La Explotacion de Inventos, Buenos Aires, Argentine Republic. Elastic wheel. 1,454,974; May 15.

Margles, Samuel G., Brooklyn, N. Y., and C. W. E. Niendorff, assignors to Otis Elevator Company, Jersey City, N. J. Endless conveyer. 1,455,542; May 15.

Marks, Thomas. (See Johnson, John H., assignor.)

Marquard, Frank F., Clairton, and C. W. Littler, Swissvale, Pa. Evaporating ammonia liquor. 1,455,299; May 15.

Marsh, Moreland M. (See Johnson, Clifford S., assignor.)

Marshall, Gaylord L., et al. (See Moffat, Henry E., assignor.)

Marshall, George L., et al. (See Moffat, Henry E., assignor.)

Marshall, George W., et al. (See Moffat, Henry E., assignor.)

Marshall, Luke, Seattle, Wash. Box-nailing machine. 1,455,217; May 15.

Martin, Fred N. (See Willson, Russell A., assignor.)

Martin, Pierre, Brussels, Belgium. Overhead runway. 1,454,937; May 15.

Martin, Wallace S., Monongahela, Pa. Bumper. 1,455,644; May 15.

Martindell, Frank, Brooklyn, assignor to The Anthony Company, Long Island City, N. Y. Liquid-fuel burner. 1,454,975; May 15.
Maryland Glass Corporation. (See Heuisler, Philip I., assignor.)
Matthews, James H., Pittsburgh, and W. R. Ecke, Emsworth, assignors to James H. Matthews & Company, Pittsburgh, Pa. Method of and machine for swaging blanks. 1,455,300; May 15.
Matthews, James H., & Company. (See Matthews, J. H., and Ecke, assignors.)
Matthews, Jas. H., & Co. (See Rickenbach, Harry C., assignor.)
Matthiessen, Ira C., Ithaca, N. Y. Reverse mechanism for motor boats. 1,454,976; May 15.
Maurer, Albert, New York, N. Y. Medal holder. 1,455,143; May 15.
Maxey, Augustus G. (See Christian, W. W., and Maxey.)
Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Balanced hydraulic pump or motor. 1,455,443; May 15.
Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Hydraulic pump or motor. 1,455,753; May 15.
Maynard, Albert E., and W. A. Gunning, assignors to American Optical Company, Southbridge, Mass. Toriclap former. 1,455,444; May 15.
Meccano Limited. (See Hornby, Frank, assignor.)
Mechanical Rubber Company, The. (See Cobb, Henry Z., assignor.)
Megill, Edward L., New York, N. Y. Gauge pin. 1,455,346; May 15.
Mennie, Robert S., Chicago, Ill. Flexible stay-bolt construction. 1,455,645; May 15.
Merriman, Robert M., Akron, Ohio. Tire mold. 1,455,218; May 15.
Merritt & Chapman Derrick & Wrecking Company. (See Hopson, Edward H., assignor.)
Merritt, Robert G., New York, N. Y. Hypsometer. 1,455,347; May 15.
Mertz, Lewis H., Chicago, Ill. Implement handle. 1,455,502; May 15.
Messter, Oskar, Berlin, Germany, assignor to N. V. Aerofoto, Amsterdam, Netherlands. Apparatus for practicing sighting and determining photographically the deviation errors. 1,455,007; May 15.
Mettler, Christoph, sr., Menno, S. Dak. Grain elevator. 1,455,301; May 15.
Michaelson, Harold N., Boston, assignor to Rawson Electrical Instrument Company, Cambridge, Mass. Making articles of varicolored plastic materials. 1,454,939; May 15.
Middleton, Thomas, Schenectady, N. Y. Metal propeller for aeroplanes, dirigibles, balloons, and the like. 1,454,977; May 15.
Midgley, Thomas, Springfield, assignor to Fisk Rubber Company, Chicopee Falls, Mass. Tire manufacture. 1,455,260; May 15.
Mikenas, John, Amsterdam, N. Y. Mop holder. 1,454,978; May 15.
Millard, Clarence, Arkansas City, Kans. Air pump and gauge. 1,455,646; May 15.
Miller, Frank P., Downingtown, Pa. Treating paper stock. 1,455,594; May 15.
Miller, Gustave E. W., Boston, Mass. Folding toothbrush. 1,454,938; May 15.
Miller, Samuel P., Chicago, Ill. Spark plug. 1,455,543; May 15.
Miller, Thomas S., South Orange, N. J. Towing engine. 1,455,261; May 15.
Millspaugh, William H., assignor to The Sandusky Foundry & Machine Company, Sandusky, Ohio. Device for filling centrifugal casting machines. Re15,601; May 15.
Miner, James B., Bend, Oreg. Halter. 1,455,445; May 15.
Mineral Bath Cabinet Company, The. (See Dorment, Frank C., assignor.)
Minton, Louis, Manchester, England. Rubber or rubber-coated article. 1,455,544; May 15.
Mitchell, John C. (See Hirsh, A. M., and Mitchell.)
Moecker, Henry, jr., and C. Thompson, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo. Door construction. 1,455,595; May 15.
Moffat, Henry E., Highland Park, Mich., assignor of one-sixteenth to G. W. Marshall, one-sixteenth to G. L. Marshall, and one-sixteenth to G. L. Marshall, Dayton, Ohio. Oil separator. 1,455,348; May 15.
Monahan, Ernest, Milwaukee, Wis. Belt buckle. 1,455,545; May 15.
Montgomery, George W., Des Moines, Iowa. Ironing board and cabinet. 1,455,446; May 15.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,455,169; May 15.
Moore, Walter C., Owensboro, Ky. Weed extractor. 1,455,144; May 15.
Morgan, Frank S. (See Kirkpatrick, B. S., and Morgan.)
Morgan & Wright. (See Tilton, G., and Abbott, assignors.)
Morina, Philip, Washington, D. C. Cabinet. 1,455,219; May 15.
Morley, Mike. (See Sweet, L. L., and Morley.)
Morpeth, Anthony, Muskegon, Mich. Shade roller. 1,455,145; May 15.
Morrison, Abraham, Worcester, Mass. Mop. 1,454,940; May 15.
Morrison, Charles S., Elkins Park, assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Toggle. 1,455,596; May 15.
Morrison, Simon, New York, N. Y. Combination vanity box. 1,455,647; May 15.
Morrison, Tom, Toledo, Ohio, assignor of one-half to M. Shuer and A. Hattner, Toledo, Ohio. Self-heating tool for asphalt pavements. 1,455,648; May 15.
Moscicki, Ignacy, Lwow, Poland. Treating bitumen or cellulose-containing substances. 1,455,546; May 15.
Moskowitz, Max. (See Needle, Morris Y., assignor.)
Mosmann, Reinhard, St. Gallen, Switzerland. Electrically-driven sound-reproducing machine. 1,455,262; May 15.
Moss, W. E., et al. (See Wood, Charles R., assignor.)
Motor Products Corporation. (See Kellogg, Homer G., assignor.)
Myers, Martin R., Grand Rapids, Mich. Platform for ladders. 1,455,220; May 15.
Myers, Martin R., Grand Rapids, Mich. Bucket support. 1,455,221; May 15.
Muhlfeld, John E., Scarsdale, and V. Z. Caracristi, Bronxville, assignors to Locomotive Pulverized Fuel Company, New York, N. Y. Fuel-feeding apparatus. 1,454,979; May 15.
Muller, Edward, North Bergen, N. J. Vehicle washer. 1,455,349; May 15.
Mulvey, Frank, Fall River, Mass. Toy vehicle. 1,455,404; May 15.
Mummery, Clyde W., Richmond, Mich. Oil burner. 1,454,980; May 15.
Munson, Jokum J., Milwaukee, Wis. Tent. 1,455,089; May 15.
Murphy, G. W. J., Company. (See Bourque, David, assignor.)
Murton, Trevor G. (See Gies, Frank G., assignor.)
Musitelli, Roberto, Brescia, Italy. Automatic firearm. 1,455,503; May 15.
Nabers, Horace Z., Greenville, S. C. Suspending device for garments. 1,455,302; May 15.
Nagle, James F., assignor to The Peck Stow & Wilcox Company, Southington, Conn. Fixture for grinding beveled chisels. 1,455,405; May 15.
National Casket Company. (See Griffith, Benjamin M., assignor.)
National Progress Club. (See Bentson, Victor L., assignor.)
National Pump Company. (See Jackson, Henry O., assignor.)
Needham, John T., North Plainfield, N. J. Carrier for pneumatic-dispatch tubing systems. 1,455,547; May 15.
Needle, Morris Y., assignor of one-half to M. Moskowitz, Washington, D. C. Cleaning composition. 1,455,350; May 15.
Nelson, Albert, assignor to The American Brake Shoe & Foundry Company, Chicago, Ill. Molder's truck. 1,455,090; May 15.
Nelson, Albert, Wheaton, Minn. Signal device for tire valves. 1,455,146; May 15.
New Martinsville Glass Mfg. Co. (See Clarke, Ira M., assignor.)
New York Belting and Packing Company. (See Cobb, Henry Z., assignor.)
Newman, Samuel. (See Bothwell, Henry R., assignor.)
Newspaper Stuffing Machines Co. (See Halvorsen, Severin, assignor.)
Niagara Sprayer Co. (See Allgrunn, Carl G., assignor.)
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nicholas, William H., Wilkinsburg, Pa. Method and apparatus for casting rolls. 1,455,091; May 15.
Nicolaides, Victor E., Lancaster, Calif. Portable head for irrigation risers. 1,455,406; May 15.
Nicolaus, Frederic G., and J. Roy, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Stove-door frame and hinge therefor. 1,455,732; May 15.
Niendorff, Charles W. E. (See Margles, S. G., and Niendorff.)
Nilsson, Nils O., Worcester, Mass. Rat trap. 1,454,941; May 15.
Noe, Walter R., New York, N. Y. Pencil. 1,455,170; May 15.
Noetzli, Fred A., Berkeley, Calif. Dam. 1,455,092; May 15.
Norton Company. (See Brown, Gregory, assignor.)
Norton Company. (See Larsson, Thure, assignor.)
Novelty Patents Company, The. (See Bergens, William J., assignor.)
Noyes, Arthur W., Arlington, Vt. Valve reseater. 1,455,649; May 15.
Nuttall, R. D., Company. (See Keim, Lester H., assignor.)
Oberfell, George G., Tulsa, Okla. Method and apparatus for testing gaseous mixtures. 1,455,263; May 15.
Oberfell, George G., Tulsa, Okla., and G. A. Burrell, New York, N. Y., assignors to Gasoline Recovery Corporation. Portable apparatus for the extraction of vapors from gases. 1,455,407; May 15.
O'Brien, Walter J., San Francisco, Calif. Cooking vessel for glazing fruit. 1,454,856; May 15.

Ochs, Werner, Bad Liebenstein, Germany. Hand or pedal lever with automatically-variable ratio of transmission. 1,455,447; May 15.
Odom, Daniel E., Bennettsville, S. C. Brush. 1,455,504; May 15.
O'Donnell, Bryan, Vail, Iowa. Differential gear. 1,455,650; May 15.
Oil Products Appliance Co. (See Wyckoff, A. D., and de Correvont, assignors.)
Olson, Adolph W., McIntosh, Minn. Nonskidding device. 1,455,408; May 15.
Olson, John A., Chicago, Ill., assignor to The S-P Manufacturing Company, Cleveland, Ohio. Chuck. 1,455,351; May 15.
Olson, Nels L., Detroit, Mich. Composition of matter. 1,455,651; May 15.
Olson, Swan, Minneapolis, Minn. Shock-loader. 1,455,029; May 15.
O'Neal, John B., jr., Waycross, Ga. Table. 1,454,903; May 15.
O'Neill, William J., Oak Park, assignor to E. C. Guthard, Chicago, Ill. Wrench and the like. 1,455,147; May 15.
Orr, Sumner E., Tacoma, Wash. Dirigible light for motor vehicles. 1,454,961; May 15.
Osonke, Rudolph, assignor, by mesne assignments, to The Economy Gage and Manufacturing Company, Inc., Detroit, Mich. Lock-seam tube-forming machine. 1,455,652; May 15.
Oswalt, George L., Clinton, Ind. Mold for forming bricks or concrete blocks. 1,455,222; May 15.
Otis Elevator Company. (See Margles, S. G., and Niendorff, assignors.)
Overbeek, Albertus, Weltevreden, Java. Dutch East Indies. Helicopter. 1,455,352; May 15.
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Palley, J. Lewis, et al. (See Flowers, Stanley A., assignor.)
Palmer, Arthur G., Hastings-upon-Hudson, N. Y. Favor and snapping motto. 1,455,653; May 15.
Paoli, Arthur, Hancock, Mich. Hydraulic jack. 1,455,223; May 15.
Paoli, Arthur, Hancock, Mich. Hydraulic jack. 1,455,224; May 15.
Paramor, John, assignor of one-half to The Watford Engineering Works, Limited, Watford, Herts County, England. Machine for straining paper pulp. 1,455,303; May 15.
Paramount Rubber Consolidated, Inc. (See Roberts, William E., assignor.)
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Spiral separator. 1,454,904; May 15.
Parkhurst, Charles E. (See Pervier, William A., assignor.)
Paterson, William, London, England. Filtering apparatus. 1,455,505; May 15.
Patey, Ernest, Norbury, England. Table adapted to be used as cookery cabinet. 1,455,506; May 15.
Patterson-Sargent Company, The. (See Davies, William T., assignor.)
Patterson-Williams Mfg. Co. (See Williams, Winfield, assignor.)
Pauly, John, assignor to American Bosch Magneto Corporation, Springfield, Mass. Impulse coupling. 1,454,942; May 15.
Pawley, William, New York, N. Y. Toy rabbit. Des. 62,353; May 15.
Pearce, Charles E., assignor of one-eighth to J. S. Strowd, one-fourth to C. W. Alexander, and one-fourth to J. W. Zachary, Cooleemee, N. C. Stop motion for spinning frames. 1,455,171; May 15.
Pearson, Ben H. (See Shaw, J. T., Weymouth, and Pearson.)
Peck Stow & Wilcox Company, The. (See Nagle, James F., assignor.)
Peirson, Charles H., and W. A. Bohue, assignors to E. F. Houghton & Co., Philadelphia, Pa. Machine for forming lug straps. 1,455,654; May 15.
Pennsylvania Textile Mills Inc., The. (See Ericson, E., and Weiss, assignors.)
Pepper, David, Philadelphia, Pa. Electric battery. 1,454,943; May 15.
Peradotto, Vittorio, Gallenca, Turin, Italy. Process of and means for tanning hides. 1,455,655; May 15.
Permutit Company, The. (See Spencer, Arthur C., assignor.)
Pervier, William A., Alston, assignor to C. E. Parkhurst, Somerville, Mass. Syringe. 1,455,507; May 15.
Pescara, Raul P., Barcelona, Spain. System of helicopter screws. 1,454,944; May 15.
Peters, Frank M., and W. H. Hungerford, assignors to Peters Machinery Company, Chicago, Ill. Dough-sheeting apparatus. 1,455,120; May 15.
Peters, Gustav, Worms, Germany. Manufacture of diphenylenediketones from anthracene compounds. 1,455,448; May 15.
Peters Machinery Company. (See Peters, F. M., and Hungerford, assignors.)
Petroleum Rectifying Company. (See Harris, Ford W., assignor.)
Pettis, Clifton D., New York, N. Y. Casting mold. 1,455,353; May 15.
Pfannenschmidt, Paul L., Jena, Germany. Acid receiver. 1,454,945; May 15.
Pflittner, Charles C., Barton, Wis. Shock absorber. 1,455,121; May 15.
Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
Phillips, Elaine H., and N. V. de Lipski, New York, N. Y. Shaving brush. 1,455,656; May 15.
Phillips, Lewis. (See Swindell, W. H., and Phillips.)
Phinney, Elisha A., Pawtucket, R. I. Separable button. 1,454,857; May 15.
Pogue, George D. (See Hildebrand, Reinhard, assignor.)
Pogue, Joseph I., Omak, Wash. Press. 1,455,304; May 15.
Poindexter, Franklin E., Denton, Tex., assignor, by mesne assignments, to B. S. Davidson, Denton, Tex. Shock absorber. 1,454,905; May 15.
Poli, Leon, Walsenburg, Colo. Safety fastening device for nonskid chains. 1,455,409; May 15.
Pontello, Frank, Calumet, Mich. Building slab. 1,455,657; May 15.
Pope, Richard, North Sydney, New South Wales, Australia. Means for controlling the rebound of springs of vehicles. 1,455,305; May 15.
Portass, Charles, et al. (See Portass, Frederick W., assignor.)
Portass, Frederick W., assignor of one-third to C. Portass and one-third to S. M. Portass, Sheffield, England. Cinematograph apparatus. 1,455,766; May 15.
Portass, Stanley M., et al. (See Portass, Frederick W., assignor.)
Porter, Winfield P., New York, N. Y. Projectile. 1,455,354; May 15.
Posselt, Otto W. F., New York, N. Y. Collapsible umbrella. 1,455,410; May 15.
Poulin, Alexandre N. (See Jorgensen, H. L., and Poulin.)
Poumade, Théodore M., Marseille, France. Automatic grain-weighing and sack-filling machine. 1,455,658; May 15.
Preiswerk, Ernst, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Easily and neutrally soluble double compounds of 1-allyl-3.7-dimethylxanthine. 1,455,264; May 15.
Pressed Steel Car Company. (See Streib, John F., assignor.)
Pressler, Adolf W., Keene, N. H. Advertising sign. Des. 62,364; May 15.
Price, William E., New York, N. Y. Connection plug. 1,454,858; May 15.
Proctor & Schwartz, Inc. (See Morrison, Charles S., assignor.)
Prudhomme, Joseph, Portland, Oreg. Foil-embossing machine. 1,455,172; May 15.
Pye, Henry T., Montreal, Quebec, Canada. Game. 1,454,982; May 15.
Pyle National Company, The. (See Dake, Charles W., assignor.)
Rabb, William S., Los Angeles, Calif. Shock absorber. 1,455,265; May 15.
Radium Chemical Company. (See Cameron, William H., assignor.)
Rans, Jacob, St. Louis, Mo. Hair curler. 1,455,659; May 15.
Rans, Jacob, St. Louis, Mo. Flour sifter. 1,455,660; May 15.
Rauen, John T., Dayton, Ohio. Internal-combustion engine. 1,455,008; May 15.
Raw, Charles, Toledo, Ohio. Veneer building block. 1,454,859; May 15.
Rawak, George. (See Casner, Thaddeus S., assignor.)
Rawson Electrical Instrument Company. (See Michaelsen, Harold N., assignor.)
Reardon, Fred A., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Counterturning machine. 1,455,548; May 15.
Reed, John G., Orwigsburg, Pa. Demountable rim. 1,455,733; May 15.
Reiley, Frederick A. (See Eaton, H. I., and Reiley.)
Reilley, Charles F., and J. J. Ludwig, Woonsocket, R. I. Hub-cap attachment. 1,455,306; May 15.
Reimann, Paul, assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Textile fabric. Des. 62,387; May 15.
Reinhold, John J., Marietta, Pa. Phonograph turntable. 1,455,355; May 15.
Relihan, William, Brooklyn, assignor to Robert Gair Company, New York, N. Y. Display dispenser. 1,454,860; May 15.
Remington Typewriter Company. (See Barr, John H., assignor.)
Renshaw, Arnold. (See Fairbrother, T. H., and Renshaw.)
Réol, Jean, Lyon, France. Press for forming briquettes. 1,454,906; May 15.
Respess, Roland B., New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I. Making artificial leather. Re15,602; May 15.
Respro Inc. (See Respess, Roland B., assignor.)
Rex Products Company, The. (See Schowe, H. G., and Hansen, assignors.)
Rhinehart, Edward L., Roanoke, Va. Choke for shotguns. 1,455,661; May 15.
Rickenbach, Harry C., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Machinery for making dies. 1,455,266; May 15.

Riddle, Maxwell F., Ravenna, Ohio. Nut-cracking machine. 1,455,449; May 15.

Riedel, Charles E., Detroit, Mich., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Counting scale. 1,455,411; May 15.

Riesenfeld, Ernst H., Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making the chlorinated products of methane. 1,455,508; May 15.

Rigby, John H., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing soles. 1,454,907; May 15.

Rist, Frank, Brooklyn, N. Y. Convertible vehicle. 1,454,861; May 15.

Rittenhouse, Walter, et al. (See Ashlock, Ernest H., assignor.)

Roberts, John W. (See Case, G. W., and Roberts.)

Roberts, L. R., Typewriter Company. (See Roberts, Lyman R., assignor.)

Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Typewriter. 1,455,030; May 15.

Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Typewriter. 1,455,031; May 15.

Roberts, William E., Little Falls, N. J., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Inner tube for automobile tires. 1,455,734; May 15.

Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Thermostatic valve mechanism. 1,455,662; May 15.

Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Thermostat. 1,455,663; May 15.

Robertshaw, George A. (See Robertshaw, Frederick W. and G. A.)

Robinson, William A. H., Springfield, Mass. Finger ring. Des. 62,388; May 15.

Robison, James E., Denver, Colo. Automobile body attaching tool-holding case. 1,455,549; May 15.

Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)

Rodell, Adolph, Chicago, Ill. Doorstop. 1,455,550; May 15.

Roderick, John V., Akron, Ohio. Internal-combustion engine. 1,454,862; May 15.

Roebuck, Alvah C., Chicago, Ill. Speed control. 1,455,093; May 15.

Roebuck, Alvah C., Chicago, Ill. Intermittent-shutter mechanism. 1,455,094; May 15.

Roebuck, Alvah C., Chicago, Ill. Fire-door-operating mechanism. 1,455,095; May 15.

Roebuck, Alvah C., Chicago, Ill. Motion-picture machine. 1,455,096; May 15.

Rogaly, Leopold. (See Cowen, W. L., and Friend, assignors.)

Rohn, Curtis A., Portland, Oreg. Heating furnace. 1,455,267; May 15.

Rojas, Floricel A., New York, N. Y. Rheostat. 1,455,735; May 15.

Rolfe Iron Company. (See Rolfe, Rial T., assignor.)

Rolfe, Olive, executrix. (See Rolfe, Rial T.)

Rolfe, Rial T., deceased, by O. Rolfe, executrix, Harvey, assignor to Rolfe Iron Company, Chicago, Ill. Adjustable gate. 1,455,356; May 15.

Ross, Frederick N., assignor to Button Attaching Machine Company, Detroit, Mich. Button. 1,455,357; May 15.

Ross, James G., Seattle, Wash. Mirror attachment for automobiles. 1,455,225; May 15.

Rossberg, Albert W., St. Paul, Minn. Hair curler. 1,455,148; May 15.

Roy, Joseph. (See Nicolaus, F. G., and Roy.)

Royal Typewriter Company. (See Hess, Edward B., assignor.)

Rücker, Karl, Berlin-Marienfelde, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Refining mixtures of chlorides of naphthalenes serving as substitutes for rosin. 1,455,509; May 15.

Rudolph, Lawrence, Louisville, Ky., assignor to R. Rudolph, Pensacola, Fla. Safety crank. 1,454,226; May 15.

Rudolph, Lawrence, Louisville, Ky., assignor to R. Rudolph, Pensacola, Fla. Safety crank. 1,455,227; May 15.

Rudolph, Lawrence, Louisville, Ky., assignor to R. Rudolph, Pensacola, Fla. Safety crank. 1,455,228; May 15.

Rudolph, Lawrence, Louisville, Ky., assignor to R. Rudolph, Pensacola, Fla. Safety crank. 1,455,229; May 15.

Rudolph, Rudy. (See Rudolph, Lawrence, assignor.)

Runyan, William B. (See Greene, A. E., and Runyan.)

Rusche, William F., Milwaukee, Wis. Lamp shade. Des. 62,365; May 15.

Rushmore, Samuel W., Plainfield, N. J. Radiator for cooling fluids. 1,455,736; May 15.

Rushmore, Samuel W., Plainfield, N. J. Radiator for automobiles. 1,455,737; May 15.

Rushmore, Samuel W., Plainfield, N. J. Radiator for cooling fluids. 1,455,738; May 15.

Rushmore, Samuel W., Plainfield, N. J. Radiator for cooling fluids. 1,455,739; May 15.

Russell, Eli A., assignor to Stronghart Company, Chicago, Ill. Small savings bank. 1,455,510; May 15.

Russell, James H., Oklahoma, Okla. Household mixing apparatus. 1,455,664; May 15.

Russell, Samuel G., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 1,455,358; May 15.

Ruze, John, New York, N. Y. Safety razor. 1,455,665; May 15.

Ryan, George E., East Taunton, Mass. Heat-deflection shield. 1,455,551; May 15.

S-P Manufacturing Company, The. (See Olson, John A., assignor.)

Sager, Fredrick, Tulsa, Okla., and H. R. Hardenburg, Kansas City, Mo. Well reamer. 1,454,863; May 15.

Sandusky Foundry & Machine Company, The. (See Millspaugh, William H., assignor.)

Sapienza, Benedetto, New York, N. Y. Telephone-call register. 1,455,268; May 15.

Savell, Cross G., Silver City, Miss. Emergency brake. 1,455,666; May 15.

Savieo, Charles L., Lima, Ohio, assignor to W. H. Foster, New York, N. Y. Bolt-turning machine. 1,454,983; May 15.

Scarborough, Lee W., Humble, Tex. Chopping and slicing machine. 1,455,173; May 15.

Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Feeder-cable support. 1,454,864; May 15.

Schafer, Frank, Duluth, Minn. Internal-combustion engine. 1,455,269; May 15.

Schanzer, Siegfried, New York, N. Y. Cap. 1,455,667; May 15.

Schau, Frederick, Hammond, Ind. Safety device for motor-driven wringers. 1,455,450; May 15.

Scheer, George B., Berkeley, Calif., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,455,668; May 15.

Schenk, William H., Gladstone, Nebr. Puzzle block. 1,455,009; May 15.

Scheuner, Charles, Chicago, Ill. Armored pneumatic tire. 1,455,412; May 15.

Schierding, William, Spokane, Wash. Dirigible lamp. 1,455,149; May 15.

Schilling, August, San Francisco, Calif. Shipping container. 1,455,270; May 15.

Schmidt, Henry S., Williamsport, Pa. Combined dust conveyer and ash sifter. 1,455,669; May 15.

Schmidt, William F., assignor to All Metal Products Company, Wyandotte, Mich. Game. 1,455,552; May 15.

Schmidt, William H., Cincinnati, Ohio. Automatic valve. 1,455,670; May 15.

Schmitt, Henry J., Portland, Oreg. Wreck-retrieving device. 1,455,122; May 15.

Schoberle, Frederick P. (See Davino, A., and Schoberle.)

Schoel, August, assignor to G. Schoel, Waterloo, Iowa. Doughnut-machine attachment. 1,455,174; May 15.

Schoel, George. (See Schoel, August, assignor.)

Schowe, Harry G., and H. J. Hansen, assignors to The Rex Products Company, Cleveland, Ohio. Air-hose coupling. 1,455,451; May 15.

Schulthess, Ernest, South Orange, N. J. Hose. 1,455,359; May 15.

Seaver, August M., Grand Rapids, Mich. Spark plug cleaner. 1,455,150; May 15.

Seccamani Pietro Brescia Italy. Distance-operated cutting pliers. 1,455,671; May 15.

Security Envelope Company. (See Ahlquist, Eugene F., assignor.)

Seely, Horatio S., Syracuse, N. Y. Sight base for rifles. 1,454,865; May 15.

Seifert, Henry R., East Ellsworth, Wis. Milking device. 1,455,672; May 15.

Seitz, Walter T., Pittsburgh, Pa. Manifold heater. 1,454,866; May 15.

Sellers, William, and Company. (See Thorne, William H., assignor.)

Semenick, Anthony, Buffalo, N. Y. Satchel. 1,455,452; May 15.

Service Bag Co. Inc. (See Bunker, J. W., and Boney, assignors.)

Shackley, Moses E., East Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Vamp-trimming machine. 1,454,908; May 15.

Shakespeare Company. (See Russell, Samuel G., assignor.)

Shalek, Victor J., Oak Park, Ill. Dental floss dispenser. 1,455,673; May 15.

Sharkey, William E., Middletown, Ohio. Reduction gearing. 1,455,360; May 15.

Sharples, Arthur E., Providence, R. I. Damper control for heaters. 1,455,271; May 15.

Shavers, Henry J., Goldsboro, N. C. Lubricator. 1,455,272; May 15.

Shaw, John T., C. A. Weymouth, and B. H. Pearson, Huddersfield, England. Steering gear for steamships. 1,455,151; May 15.

Shaw, Victor A., Brooklyn, N. Y. Boat and apparatus for the propulsion thereof. 1,455,230; May 15.

Sheaffer, Robert C., Lancaster, Pa. Brassière holder. 1,455,152; May 15.

Sheen, Francis M., New Orleans, La. Apparatus for handling packages. 1,455,273; May 15.

Shelton, William G., New York, N. Y. Power-driven implement for cutting hair or the like. 1,455,274; May 15.

Sherwood, Carlyle J., assignor to Coen Co., San Francisco, Calif. Burner. 1,455,175; May 15.

Shoenberg, Milton H., San Francisco, Calif. Electric cigar lighter. Des. 62,366; May 15.

Shoenberg, Milton H., San Francisco, Calif. Electric cigar lighter and standard. Des. 62,367; May 15.

Short, John J., New York, N. Y. Safety razor. 1,455,674; May 15.

Shuer, Maurice, et al. (See Morrison, Tom, assignor.)

Sibson, Walter W. (See Allsop, T., and Sibson.)

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Altenkirch, Edmund, assignor.)

Simmons, John P., San Francisco, Calif. Valve-grinding machine. 1,455,176; May 15.

Sinclair, Daniel, New York, N. Y. Extension pedal pad for automobiles and similar motor-driven vehicles. 1,455,675; May 15.

Sindicato Argentino para la Explotación de Inventos. (See Marchetti, Pericles, assignor.)

Sipe, John F., New York, N. Y. Solid elastic tire for road vehicles. 1,455,361; May 15.

Skupién, Antoni, Port Henry, N. Y. Sled. 1,455,032; May 15.

Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Motor rotation for rock drills. 1,455,553; May 15.

Slater, Harvey H., Kenosha, Wis. Multiple-filament electric-lamp headlight. 1,455,033; May 15.

Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving system. 1,455,767; May 15.

Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving system. 1,455,768; May 15.

Small, James W., Chicago, Ill. Electrical drying apparatus. 1,455,034; May 15.

Smith, Burns L., Syracuse, N. Y. Cushion wheel for motor vehicles. 1,455,453; May 15.

Smith, Henry H., Cherryvale, N. Mex. Pumping apparatus. 1,455,153; May 15.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,455,454; May 15.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ledger sheet. 1,455,740; May 15.

Smith, Samson H. (See Hutchens, R. W., and Smith.)

Snyder, Daniel F., Garwood, N. J., assignor to The Aeolian Company. Sound box. 1,454,909; May 15.

Societe Anonyme Belge "Saber" Entreprises & Revetements. (See Anspach, Marcel, assignor.)

Soderstrom, John A., Chicago, Ill. Necktie. 1,455,362; May 15.

Soulis, Harold A. and W. T., New York, N. Y. Uniting metals. 1,455,307; May 15.

Soulis, Wilbur T. (See Soulis, Harold A. and W. T.)

Spaventoy, James, Brooklyn, N. Y. Manual signal for vehicles. 1,455,231; May 15.

Speer, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to The Beaver Products Company, Inc. Making shingle strips. 1,455,232; May 15.

Spencer, Arthur C., Washington, D. C., assignor to The Permutit Company, New York, N. Y. Purifying water. 1,455,363; May 15.

Spikes, George W., Dalworth Park, Tex. Honey receptacle. Des. 62,368; May 15.

Stafford, Archibald, Sacramento, Calif. Sewer flusher. 1,455,177; May 15.

Standard Development Company. (See Buc, Hyym E., assignor.)

Standard Oil Company. (See Fifield, George H., assignor.)

Standard Oil Company of California. (See Kirpatrick, B. S., and Morgan, assignors.)

Standard Steel Propeller Company. (See Dicks, Thomas A., assignor.)

Standfield, Arnold W., Sydney, New South Wales, Australia. Printing frame for roll films. 1,455,308; May 15.

Stangeland, Eric L., East Stanwood, Wash. Generator. 1,455,275; May 15.

Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Heelplate for skates or the like. 1,455,276; May 15.

Star Motor Company of California. (See Corgiat, J., jr., and Dusevoir, assignors.)

Stark, Olin G., Tunkhannock, Pa. Clutch control. 1,455,676; May 15.

Starmer, Mary, Newport News, Va. Belt buckle. 1,455,413; May 15.

Steelman, Lewis, Millville, N. J., assignor to H. L. Dixon Company, Pittsburgh, Pa. Leer. Re15,603; May 15.

Stegeman, Henry J., Fairfield, Conn., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. 1,455,455; May 15.

Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,454,910; May 15.

Steiner Sales Company. (See Steiner, George A., assignor.)

Stephenson, John R., and O. C. Armstrong, Los Angeles, Calif. Tractor attachment for automobiles. 1,454,911; May 15.

Stephenson, Ralph E., Indianapolis, Ind., assignor to G. & J. Tire Company. Manufacturing inner tubes. 1,455,364; May 15.

Sterckiex, Prosper, Frankfort-on-the-Main, Germany, assignor to G. Fussner, Menominee, Mich. Metal-working machine and attachment therefor. 1,455,554; May 15.

Stevens, Isaac G., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Illustrative display sheet. 1,455,123; May 15.

Stevens, Samuel R., New York, N. Y. Door lock. 1,455,677; May 15.

Stewart, Samuel W., et al. (See Duder, John, assignor.)

Stewart, Victor A., Brooklyn, assignor of one-half to R. Thorne, Glen Cove, N. Y. Well-drilling apparatus. 1,454,984; May 15.

Stille, George, Staunton, Ill. Switch-throwing mechanism. 1,455,678; May 15.

Stimmel, Frederick C., assignor to Casey Hedges Co., Chattanooga, Tenn. Water-tube boiler. 1,455,597; May 15.

Stokes, William H., Coventry, assignor to Courtaulds Limited, London, England. Preparation of sulphuric acid starch composition. 1,455,679; May 15.

Stone, Walter A. (See Wright, A. F., and Stone.)

Strane, Archibald J., St. Paul, Minn., assignor to Atlas Powder Company, Wilmington, Del. Propulsive blasting explosive. 1,455,809; May 15.

Straube, John F., Omaha, Nebr. Antiskid chain for automobiles. 1,455,233; May 15.

Strauss, Louis, Brooklyn, N. Y. Sweater. Des. 62,354; May 15.

Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Door-operating mechanism. 1,455,310; May 15.

Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake. 1,455,311; May 15.

Strenger, Ernest R. (See Hiller, J. J., and Strenger.)

Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)

Stronghart Company. (See Kusel, Isidor J., assignor.)

Stronghart Company. (See Russell, Eli A., assignor.)

Strowd, John S., et al. (See Pearce, Charles E., assignor.)

Sundh, August, Hastings-upon-Hudson, N. Y. Mill. 1,455,278; May 15.

Sundh, August, Hastings-upon-Hudson, N. Y., and W. Westerman, Detroit, Mich. Indicator. 1,455,277; May 15.

Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Adding machine. 1,455,555; May 15.

Superior Process Refining Company. (See Gilchrist, Vincent T., assignor.)

Superior Projector, Inc. (See Doherty, John, assignor.)

Swan, John C., Marietta, Ohio. Drilling wells. 1,455,010; May 15.

Sweet, Lewis L., and M. Morley, Wallace, Idaho. Ball mill. 1,455,456; May 15.

Sweetland, William H., et al. (See Ashlock, Ernest H., assignor.)

Swindell, William H., and L. Phillips, Waldo, Fla. Rail joint. 1,455,680; May 15.

Swinland, John, Duluth, Minn. Vehicle. 1,455,124; May 15.

Sylvester, Chester M., Middleboro, Mass. Trap for drains and the like. 1,455,279; May 15.

Taliaferro, William R., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. 1,454,867; May 15.

Tartrais, Eugène H., Maisons-Laffitte, France. Fuel pump for internal-combustion engines. 1,455,125; May 15.

Tate, John C., Oakland, Calif. Absorbing and purifying composition. 1,455,414; May 15.

Tate, William E., sr., Weatherford, Tex. Lawn mower. 1,454,912; May 15.

Tate, William J., Springfield, Mass. Cabinet. 1,454,985; May 15.

Taylor, Robert B., Baltimore, Md. Fire box. 1,455,681; May 15.

Taylor-Wharton Iron and Steel Company. (See Mayer, Waldemar F., assignor.)

Terry, Willard B., Salt Lake City, Utah. Antiskid chain. 1,455,178; May 15.

Texas Company, The. (See Adams, Joseph H., assignor.)

Texas Gulf Sulphur Company. (See Davis, Harold S., assignor.)

Thomas, Horace T., Lansing, Mich. Muffler for internal-combustion engines. 1,454,986; May 15.

Thomas, Solon G., and R. E. Kight, Cordell, Okla. Vending machine. 1,455,154; May 15.

Thompson, Earl, New York, N. Y. Chair seat. 1,455,234; May 15.

Thompson, John T., San Francisco, Calif. Optical instrument. 1,455,011; May 15.

Thompson, Theodore. (See Moecker, H., jr., and Thompson.)

Thorne, Rougier. (See Stewart, Victor A., assignor.)

Thorne, William H., assignor to William Sellers and Company, Incorporated, Philadelphia, Pa. Clamping mechanism for machine tools. 1,455,556; May 15.

Tiefel, Charles G. (See Todd, L. M., and Tiefel.)

Tigerstedt, Eric M. C., Frederiksberg, near Copenhagen, Denmark. Diaphragm adapted to receive and produce sound. 1,454,913; May 15.
Tighe, John T., Scranton, Pa. Conductor connection. 1,455,415; May 15.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Trial lens. 1,455,457; May 15.
Tilt, Charles A., Chicago, Ill. Automobile engine suspension. 1,455,365; May 15.
Tilton, George, and A. O. Abbott, jr., Detroit, Mich., assignors to Morgan & Wright. Cutting and length-gauging machine. 1,455,366; May 15.
Todd, Libanus M., and C. O. Tiefel, assignors to Todd Protectograph Company, Inc., Rochester, N. Y. Printing apparatus. 1,454,914; May 15.
Todd Protectograph Company. (See Todd, L. M., and Tiefel, assignors.)
Townsend, Herbert E., East Providence, assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Cushioning device for reversing mechanism. 1,454,987; May 15.
Townsend, John S. E., Oxford, England. Means for detecting small electric currents. 1,455,458; May 15.
Townsend, William S., and F. E. Douglass, Rochester, Pa. Dispensing and display pump. 1,455,235; May 15.
Townson, James. (See Hall, F. C., and Townson.)
Tratsch, Walter A. (See Bechtol, A. H., and Tratsch.)
Triggs, James M., assignor to The Majestic Company, Huntington, Ind. Window chute. 1,455,511; May 15.
Trimble, Charles P., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Clip for fastening covers to seat frames and the like. 1,455,754; May 15.
Trollo, Biagio, Oneida, N. Y. Feed box for bees. 1,455,459; May 15.
Trott, Rolland S., Denver, Colo. Piston for engines. 1,454,868; May 15.
Trumbull, Oscar W., Buffalo, N. Y. Packing. 1,455,682; May 15.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. 1,454,869; May 15.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tsutsui, Yukino, Seattle, Wash. Hatpin. 1,455,126; May 15.
Tucker, James R., and E. M. Ayers, Baltimore, Md. Automobile spring tire. 1,455,236; May 15.
Tufts, Raymond D. (See Amato, Irving J., assignor.)
Tully, George L., Southbridge, and W. H. Boutelle, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,455,512; May 15.
Turja, John E. (See Jacobson, J. W., and Turja.)
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Master clutch. 1,455,460; May 15.
Turner, Nettie V., New Smyrna, Fla. Cooking apparatus. 1,455,312; May 15.
Turner, William J., Seekonk, Mass. Trap. 1,454,988; May 15.
Tydings, John, Philadelphia, Pa. Receptacle-supporting bracket. 1,455,557; May 15.

U. S. Ball Bearing Manufacturing Company. (See Diesk, John, assignor.)
Uhlemann, Theodore F., assignor to Nicholas Power Company, Inc., New York, N. Y. Film guide for motion-picture machines. 1,455,367; May 15.
Uhlemann, Theodore F., Glen Morris, N. Y., assignor to Nicholas Power Company, Inc., New York, N. Y. Tension device for moving-picture machines. 1,455,368; May 15.
Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Bed and Spring Company. (See Ford, Ben K., assignor.)
Union Metal Products Company. (See Hunt, R., and Freeman, assignors.)
Union Pharmacal Company. (See Dodson, Carroll E., assignor.)
Union Switch & Signal Company, The. (See Holliday, John S., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Doulett, Henry T., assignor.)
United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
United Shoe Machinery Corporation. (See Lee, Bernard S., assignor.)
United Shoe Machinery Corporation. (See Rigby, John H., assignor.)
United Shoe Machinery Corporation. (See Shackley, Moses E., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
Utzman, Clarence W., Buffalo, N. Y., assignor, by mesne assignments, to The Beaver Products Company, Inc. Plaster-board apparatus. 1,455,127; May 15.
Uzzell, Rudyard S., Jamaica, N. Y. Carrousel. 1,455,128; May 15.

Valentine, Herbert S., Philadelphia, Pa. Hoist. 1,455,369; May 15.
Vallot, André, Levallois-Perret, France, assignor of one-half to H. E. Vanderveer, Pueblo, and one-half to A. K. McRae, Denver, Colo. Device for mounting headlights on the bodies of motor cars. Re15,007; May 15.
Van Acheren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Cooling means for exhaust mains. 1,455,059; May 15.
Van Doren, John B., Providence, R. I. Pyrotechnic display device. 1,455,097; May 15.
Van Heusen, John M., Jamaica Plain, Mass., assignor to Van Heusen Products, Inc. Folding collar. 1,455,683; May 15.
Van Heusen Products, Inc. (See Van Heusen, John M., assignor.)
Vanderveer, Herbert E., et al. (See Vallot, André, assignor.)
Vardell, Arthur A., deceased, by H. G. Vardell, executrix, Dallas, Tex., assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Roll-box structure for gins. 1,455,685; May 15.
Vardell, Highland G., executrix. (See Vardell, Arthur A.)
Varner, Samuel B., Granby, Mo. Demountable rim. 1,455,684; May 15.
Venable, William M., Pittsburgh, Pa. Phonograph record and record blank and making the same. 1,455,129; May 15.
Venuto, Louis J. (See Hiller, J. J., and Strenger, assignors.)
Vickers, Harry H., Corona, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. 1,455,280; May 15.
Von Tell, Edward E., Gottenborg, Sweden. Ship's hatch. 1,455,513; May 15.
Vreeland, George W., and G. E. Wisener, Steubenville, Ohio. Remotion of blast-furnace salamanders. 1,455,313; May 15.
Wait, Thaddeus S. (See Henry, J. A., and Wait.)
Walker, Arthur D., Minneapolis, Minn. Card-game scorer. 1,455,416; May 15.
Walker Body Company. (See Wells, George W., assignor.)
Walker, Henry V., Newark, N. J. Nitration apparatus. 1,454,870; May 15.
Walker, Henry V., Newark, N. J. Nitrating cellulose. 1,454,871; May 15.
Walker, Samuel G. (See Griffiths, H. R., and Walker.)
Wallace, James F., Brooklyn, N. Y. Collapsible core. 1,455,686; May 15.
Walton, Robert W., Philadelphia, Pa. Circular-knitting machine. 1,455,370; May 15.
Walton, Stokely D., Imperial, Calif. Gang disk plow. 1,455,687; May 15.
Ward, Albert F., San Francisco, Calif. Advertising device. 1,455,179; May 15.
Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Norwood, Ohio. Ironing machine. 1,455,153; May 15.
Warner, Sotorious D., Kokomo, Ind. Resilient wheel. 1,455,180; May 15.
Warren, Mildred L., Springfield, Mass. Educational game apparatus. 1,455,098; May 15.
Waters, Bernard, Winnipeg, Manitoba, Canada. Picture or advertising exhibitor. 1,455,461; May 15.
Watford Engineering Works, Limited, The. (See Paramor, John, assignor.)
Watkins, Albert B., Alhambra, Calif. Combined fishing and swaging tool. 1,455,314; May 15.
Watkins Appliance Company. (See Watkins, William F., assignor.)
Watkins, William F., assignor to Watkins Appliance Company, Inc., Seattle, Wash. Window-sash-holding device. 1,454,989; May 15.
Weber, Clifford A. M., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator repulsion induction motor. 1,454,872; May 15.
Weber, Henry C. P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fractionating column. 1,454,874; May 15.
Weber, Henry C. P., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Handling gases and product containing dissolved gas. 1,454,873; May 15.
Webster Mfg. Co. (See Jacobsen, Richard S., assignor.)
Weeber, Otto, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Electric resistance. 1,455,462; May 15.
Weickman, Albert, Harrison, N. Y. Shovel. 1,455,688; May 15.
Weidinger, George, Mount Sterling, Ohio. Excavating and loading apparatus. 1,455,689; May 15.
Weinberg, Isaac J., Chicago, Ill. Means for moth-proofing furniture. 1,455,463; May 15.
Weiss, Roger. (See Ericson, E., and Weiss.)
Welker, Louis, jr., Williamsport, Pa. Window-operating device. 1,455,464; May 15.
Wells, George W., assignor to Walker Body Company, Amesbury, Mass. Hinge. 1,455,690; May 15.

Wendt, Gustave A., Spokane, Wash. Casket. Des. 62,369; May 15.
Wennerstrom, Ernest J. T., assignor to Aktiebolaget Bofors, Bofors, Sweden. Fuse. 1,455,741; May 15.
Wentworth, Thomas C., Cornish, Me. Combination reenforcement and fastener. 1,455,315; May 15.
Wentworth, Thomas C., Cornish, Me. Cover fastener. 1,455,316; May 15.
Wentzel, Clifford E., assignor to International Clay Machinery Company, Dayton, Ohio. Furnace gas producer. 1,455,181; May 15.
Werner, George C., Brooklyn, N. Y. Switch. 1,455,763; May 15.
West, Leonidas D., Denver, Colo. Automatic door closer. 1,455,691; May 15.
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal can. 1,455,182; May 15.
Westergaard, Carl J., Minneapolis, Minn. Cream ripener and pasteurizer. 1,455,012; May 15.
Westerman, William. (See Sundh A., and Westerman.)
Westinghouse Electric & Manufacturing Company. (See Clay, Noble S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cook, Charles S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hurtt, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintzing, Reese T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Scheer, George B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Taliaferro, William R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Weber, Clifford A. M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yensen, Trygve D., assignor.)
Weymouth, Charles A. (See Shaw, J. T., Weymouth, and Pearson.)
Wheeling Stamping Company. (See McGinnis, John A., assignor.)
Whitaker-Glessner Company. (See Holloway, W. W., and Kielberg, assignors.)
White, Bruce C., assignor to R. Hoe & Co., New York, N. Y. Pump. 1,455,035; May 15.
White, Charles L., Medina, N. Y. Electric heater for shoe machinery. 1,454,875; May 15.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Heat deflector. 1,455,417; May 15.
White, Fred R. (See Howe, W. G., and White.)
White, John F., assignor to White Products Co., Chicago, Ill. Hood latch. 1,455,371; May 15.
White Products Co. (See White, John F., assignor.)
White, William E., Chicago, Ill. Insert for hangers. 1,455,036; May 15.
Whitfield, William A., Asheville, N. C. Concrete-block machine. 1,455,317; May 15.
Whitney, Herbert C. (See Eastman, William H., assignor.)
Wick, Robert, Woodridge, N. J. Brake-band-control mechanism. 1,455,372; May 15.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Frame suspension for traction engines. 1,455,465; May 15.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. 1,455,466; May 15.
Widell, Magnus E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Safety stop for double seamers. 1,454,876; May 15.
Wilcke, Oscar, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Bomb-throwing device for aircraft. 1,454,090; May 15.
Wilkie, William, Glasgow, Scotland. Seam-pressing machine. 1,455,692; May 15.
Williams, Ora W., Minneapolis, Minn. Grain separator. 1,455,693; May 15.
Williams, Winfield, assignor to Patterson-Williams Mfg. Co., San Jose, Calif. Amusement device. 1,454,991; May 15.
Willette, Charles W., Seattle, Wash. Automatic lumber trimmer. 1,454,992; May 15.
Willson, Russell A., assignor of one-half to F. N. Martin, Spokane, Wash. Apparatus for refrigeration. 1,455,156; May 15.
Wilson-Jones Loose Leaf Co. (See Fargo, Charles R., assignor.)
Wilson, Sydney. (See Wilson, Walter A. and S.)
Wilson, Walter A. and S., Vancouver, British Columbia, Canada. Street indicator. 1,455,467; May 15.
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Wine, William E., Toledo, Ohio. Car-door-locking device. 1,455,694; May 15.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. 1,454,877; May 15.
Wisener, George E. (See Vreeland, G. W., and Wisener.)
Wolff, August, New York, N. Y. Frame for supporting transparent plates. 1,455,373; May 15.
Wolff, Karl G. (See Greco, G., and Wolff.)
Woll, Joseph, McKeesport, Pa. Rail joint. 1,455,695; May 15.
Wood, Charles F., Chicago, Ill. Code table. 1,455,157; May 15.
Wood, Charles R., assignor of one-fourth to W. E. Moss and one-fourth to B. C. Goodrich, Memphis, Tenn. Pneumatic elevator for elevating seed cotton for gins. 1,455,764; May 15.
Wood, Charles R., assignor of one-fourth to W. E. Moss and one-fourth to B. C. Goodrich, Memphis, Tenn. Cotton cleaner and boll crusher. 1,455,765; May 15.
Woodhead, Richard T., St. Paul, Minn. Combined Ford primer and carburetor control. 1,455,318; May 15.
Woodruff, Alonzo, Auburn, N. Y. Combination of bottle cap and brush holder. 1,455,158; May 15.
Woods, Robert M., Wheeling, W. Va. Ice-cream freezer. 1,455,418; May 15.
Wormser, Arthur, Offenbach-on-the-Main, Germany. Lathe. 1,455,558; May 15.
Wright, Alice M., Detroit, Mich. Electric oven for hair. 1,455,696; May 15.
Wright, Archibald F., and W. A. Stone, St. Clair, Mich. Rubbing block. 1,455,559; May 15.
Wright, Frank G., San Diego, Calif. Fuel-preparing apparatus for gas engines. 1,455,183; May 15.
Wright, George, South Orange, N. J. Boat-launching mechanism. 1,455,159; May 15.
Wyckoff, Andrew D., Maywood, and H. P. de Correvont, Chicago, assignors to Oil Products Appliance Co., Maywood, Ill. Liquid measuring and dispensing apparatus. 1,455,184; May 15.
Yale & Towne Manufacturing Company, The. (See Epstein, Eli, assignor.)
Yawman & Erbe Mfg. Co. (See Stevens, Isaac G., assignor.)
Yensen, Trygve D., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetizable meter vane. 1,454,878; May 15.
Yokel, Frank, Avalon, assignor to Wm. B. Young Co., Philadelphia, Pa. Lamp standard. Des. 62,370; May 15.
Yonge, Laurie W., Jacksonville, Fla. Locking device for automobile starters. 1,455,697; May 15.
Yoshinaga, Bunzuchi, Vancouver, Wash. Marker. 1,455,160; May 15.
Young, Harvey L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Winder-balancing mechanism. 1,455,185; May 15.
Young Iron Works, Inc. (See Hansen, Arthur E., assignor.)
Young, Wm. B., Co. (See Yokel, Frank, assignor.)
Zachary, James W., et al. (See Pearce, Charles E., assignor.)
Zickler, William W., Mullan, Idaho. Miner's lamp. 1,455,130; May 15.
Ziesel, William, Philadelphia, Pa. Dental lancet for surgical treatment of pyorrhea. 1,455,374; May 15.
Ziola, Edward L., Ashton, Nebr. Animal trap. 1,455,131; May 15.
Zöllner, Rudolph, Dresden, Germany. Connection or binding terminal. 1,454,879; May 15.
Zommer, William P., and G. F. Magdziarz, Chicago, assignors to Illinois Gasket Co., Des Plaines, Ill. Gasket-making machine. 1,455,560; May 15.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorbing and purifying composition. J. C. Tate. 1,455,414; May 15.
Acid receiver. P. L. Pfannenschmidt. 1,454,945; May 15.
Adding machine. G. D. Sundstrand. 1,455,555; May 15.
Adjustable gate. R. T. Rolfe. 1,455,356; May 15.
Advertising device. A. F. Ward. 1,455,179; May 15.
Aerial machines, Propeller for. R. Leparmentier. 1,455,442; May 15.
Aerial railway for amusement purposes. A. Davino and F. P. Schoberle. 1,455,300; May 15.
Aeroplane. J. Chochol and M. Dykas. 1,455,427; May 15.
Aeroplanes, dirigibles, balloons, and the like, Metal propeller for. T. Middleton. 1,454,977; May 15.
Air brake, Frictionless. S. Giovannini. 1,454,887; May 15.
Aircraft. Bomb-throwing device for. O. Wilcke. 1,454,990; May 15.
Alcohol, Dehydration of. H. E. Buc. 1,455,072; May 15.
Alloy. A. S. Hyman. 1,455,531; May 15.
Alloy. H. C. Kirk and G. H. Dumler. 1,455,589; May 15.
Ammonia liquor, Evaporating. F. F. Marquard and C. W. Littler. 1,455,299; May 15.
Amusement apparatus. M. Iliguchi. 1,454,968; May 15.
Amusement device. A. H. Bechtol and W. A. Tratsch. 1,454,947; May 15.
Amusement device. W. Williams. 1,454,991; May 15.
Anchoring device. H. C. Mahon. 1,455,641; May 15.
Animal trap. L. Haege. 1,454,998; May 15.
Animal trap. E. L. Ziola. 1,455,131; May 15.
Ash-pan lifter. M. Lombardi. 1,455,216; May 15.
Ash tray. I. M. Clarke. Des. 62,373–4; May 15.
Ash tray. P. I. Heuisler. Des. 62,352; May 15.
Ash tray and extinguisher, Combined. E. C. Callahan. Des. 62,372; May 15.
Asphalt pavements, Self-heating tool for. T. Morrison. 1,455,648; May 15.
Attaching device. G. S. Andres. 1,455,516; May 15.
Antiskid chain. W. B. Terry. 1,455,178; May 15.
Automobile body attaching tool-holding case. J. E. Robison. 1,455,549; May 15.
Automobile bumper. E. V. Allen. 1,455,514; May 15.
Automobile direction indicator. P. M. Flack. 1,455,581; May 15.
Automobile engine suspension. C. A. Tilt. 1,455,365; May 15.
Automobile fender. J. Allen. 1,455,468; May 15.
Automobile hat holder. M. W. Dye. 1,454,962; May 15.
Automobile lock. J. P. Geraghty. 1,455,583; May 15.
Automobile lock. C. A. Hasenicht. 1,455,138; May 15.
Automobile radiator thermometer. A. Cameron. 1,455,043; May 15.
Automobile rear-signal device. S. A. Flowers. 1,455,526; May 15.
Automobile signal. W. Cline. 1,454,920; May 15.
Automobile signal. M. G. Prandick. 1,455,054; May 15.
Automobile starters, Locking device for. L. W. Yonge. 1,455,697; May 15.
Automobile tool. F. W. Jackson. 1,455,617; May 15.
Automobile top. R. C. Hoagland. 1,455,203; May 15.
Automobiles and similar motor-driven vehicles, Extension pedal pad for. D. Sinclair. 1,455,675; May 15.
Automobiles and the like, Fuel-feed system for. F. E. Edwards. 1,455,085; May 15.
Automobiles, Antiskid chain for. J. F. Straube. 1,455,233; May 15.
Automobiles, Mirror attachment for. J. G. Ross. 1,455,225; May 15.
Automobiles, Motor and steering control for. P. Cassara. 1,455,570; May 15.
Automobiles, Radiator for. S. W. Rushmore. 1,455,737; May 15.
Automobiles, Tractor attachment for. J. R. Stephenson and O. C. Armstrong. 1,454,911; May 15.
Axle drive, Motor. W. W. Diller. 1,455,084; May 15.
Bag form. A. M. Bates. Re15,605; May 15.
Bag-forming-tube package. A. M. Bates. 1,455,282; May 15.
Bags, Making and filling. A. M. Bates. 1,455,383; May 15.
Bag support. H. J. Lebherz. 1,455,536; May 15.
Bag tubes for use in making filled bags, Forming and preparing. A. M. Bates. 1,455,384; May 15.
Bait, Subsurface fish. W. E. Koch. 1,455,624; May 15.
Ball mill. L. L. Sweet and M. Morley. 1,455,456; May 15.

Bank, Coin. I. J. Kusel. 1,455,498; May 15.
Bank, Small savings. E. A. Russell. 1,455,510; May 15.
Bath, furnace, Salt-. O. A. Colby. 1,454,847; May 15.
Batteries, Vent plug for storage. L. Lyndon. 1,455,344; May 15.
Battery: *See*—
Electric battery.
Bead-forming machine. R. W. Hutchens and S. H. Smith. May 15.
Bearing, Adjustable. E. L. Feese. 1,455,328; May 15.
Bearing, Axle. J. D. Cité. Re15,599; May 15.
Bearings, Attachment for. J. A. Anderson. 1,455,515; May 15.
Bedspring frame. B. K. Ford. 1,454,964; May 15.
Bedstead end frame. F. Anderson. Des. 62,357; May 15.
Bees, Feed box for. B. Troilo. 1,455,459; May 15.
Bell ringer. L. McCleary. 1,455,635; May 15.
Beverages, Manufacture of low-alcoholic. H. Heuser. 1,455,397; May 15.
Bicycle frame. J. C. Baine. Des. 62,351; May 15.
Billiard-cue rack. H. F. Leventry. 1,454,900; May 15.
Binder and the like, Loose-leaf. R. L. Esson. 1,454,921; May 15.
Binder, Loose-leaf. C. D. Trussell. 1,454,869; May 15.
Binder, support, Loose-leaf-. C. R. Fargo. 1,455,524; May 15.
Binder, Temporary or loose-leaf. F. H. Harris. 1,445,000; May 15.
Bit clamp. C. P. Brown. 1,455,424; May 15.
Bitumen or cellulose-containing substances, Treating. I. Moscicki. 1,455,546; May 15.
Blanks, Feeder for metal. J. A. McGinnis. 1,455,639; May 15.
Blanks, Method of and machine for swaging. J. H. Matthews and W. R. Ecke. 1,455,300; May 15.
Block: *See*—
Building block. Puzzle block.
Lens block. Rubbing block.
Blow-out preventer, Automatic. T. J. Kelly. 1,455,731; May 15.
Board-stripping device. T. Cameron. 1,455,019; May 15.
Boat and apparatus for the propulsion thereof. V. A. Shaw. 1,455,230; May 15.
Boat-launching mechanism. G. Wright. 1,455,159; May 15.
Boats, Reverse mechanism for motor. I. C. Matthiessen. 1,454,976; May 15.
Boiler: *See*—
Water-tube boiler.
Boilers, Furnace of steam. T. Collier. 1,455,429; May 15.
Bolt-turning machine. C. L. Savieo. 1,454,983; May 15.
Book and ice-pick holder, Combined coupon. C. E. Erickson. 1,455,759; May 15.
Bottle cap. S. Bjorkquist. 1,455,068; May 15.
Bottle cap and brush holder, Combination of. A. Woodruff. 1,455,158; May 15.
Bottle feeding and grinding device. J. H. Konefes. 1,454,931; May 15.
Box: *See*—
Fire box. Vanity box.
Sound box.
Box-nailing machine. L. Marshall. 1,455,217; May 15.
Boxes, Making loose-wrapped folding. G. W. Case and J. W. Roberts. 1,455,321; May 15.
Brace: *See*—
Fender brace.
Bracket: *See*—
Brake bracket. Sewing-machine-motor bracket.
Receptacle-supporting bracket. Spring bracket.
Bracket and fender, Spring. W. G. Cox. 1,455,573; May 15.
Brake: *See*—
Air brake. Momentum-operated brake.
Emergency brake. Railway brake.
Brake. J. F. Streib. 1,455,311; May 15.
Brake bracket, Outside. F. J. Andel. 1,455,562; May 15.
Brake and transmission band lining, Detachable. W. A. McGuire. 1,455,259; May 15.
Brake-band-control mechanism. R. Wick. 1,455,372; May 15.
Brassière holder. R. C. Sheaffer. 1,455,152; May 15.

Bricks or concrete blocks, Mold for forming. G. L. Oswalt. 1,455,222; May 15.
Briquette-forming press. J. Réol. 1,454,906; May 15.
Brooder. M. C. Baron. 1,454,946; May 15.
Brush. D. E. Odom. 1,455,504; May 15.
Brush, Shaving. E. H. Phillips and N. V. de Lipski. 1,455,656; May 15.
Buckle, Bale tie. R. L. Horsley. 1,455,204; May 15.
Buckle, Belt. E. Monahan. 1,455,545; May 15.
Buckle, Belt. M. Starmer. 1,455,418; May 15.
Bucket support. M. R. Myers. 1,455,221; May 15.
Building block, Veneer. C. Raw. 1,454,850; May 15.
Bumper. W. S. Martin. 1,455,644; May 15.
Burner: *See*—
Liquid-fuel burner. Oil burner.
Burner. C. J. Sherwood. 1,455,175; May 15.
Butter, Machine for cutting. R. McGreer and H. J. Belcher. 1,455,258; May 15.
Button. F. N. Ross. 1,455,357; May 15.
Button, Separable. E. A. Phinney. 1,454,857; May 15.
Button, Snap. M. J. Baer. 1,455,281; May 15.
Cabinet. F. G. Dorment. 1,455,191; May 15.
Cabinet. P. Morina. 1,455,219; May 15.
Cabinet. W. J. Tate. 1,454,985; May 15.
Cable hanger. R. Fordyce. 1,455,30; May 15.
Cable support, Feeder-. W. Schaake. 1,454,864; May 15.
Calculating machine. C. W. Chih. 1,455,710; May 15.
Camera, High-speed. J. W. Legg. 1,454,899; May 15.
Can: *See*—
Sheet-metal can.
Can exhauster. J. F. Anderson. 1,455,014; May 15.
Canning machine. J. F. Anderson. 1,455,013; May 15.
Cap. S. Schanzer. 1,455,067; May 15.
Carbon remover. H. W. Eastman. 1,455,574; May 15.
Carburetor. E. E. Eckert. 1,455,134; May 15.
Car-door hanger. T. R. Chandler. 1,455,044; May 15.
Car-door-locking device. W. E. Wine. 1,455,694; May 15.
Car, Dump. A. Campbell. 1,455,520; May 15.
Car protective device, Refrigerator-. A. J. Denman and A. E. Causey. 1,454,883; May 15.
Carrier: *See*—
Luggage carrier. Tire carrier.
Carrousel. R. S. Uzzell. 1,455,128; May 15.
Carrying case, Messenger's safety. H. F. Johnson. 1,454,894; May 15.
Car seal. M. J. Lins. 1,455,403; May 15.
Car, Stock. J. H. Kcon. 1,455,006; May 15.
Case: *See*—
Carrying case. Vanity case.
Case-shift mechanism. M. C. Crawley. 1,455,109; May 15.
Cases or similar receptacles, Fastening device for. W. J. Jaggers. 1,455,253; May 15.
Casket. G. A. Wendt. Des. 62,369; May 15.
Casket handle. F. B. Aston. 62,358; May 15.
Casting die. C. M. Grey. 1,455,248; May 15.
Casting machines, Device for filling centrifugal. W. H. Millspaugh. Re15,601; May 15.
Casting mold. C. D. Pettis. 1,455,353; May 15.
Casting rolls, Method and apparatus for. W. H. Nichols. 1,455,091; May 15.
Catapult. S. E. Chapman. 1,455,075; May 15.
Catch. D. W. Blackwell. 1,455,104; May 15.
Cellulose-aralkyl-ether composition. H. Dreyfus. 1,454,960; May 15.
Cellulose-ether composition. H. Dreyfus. 1,454,959; May 15.
Cellulose, Nitrating. H. V. Walker. 1,454,871; May 15.
Cellulosic derivatives, Composition containing. H. Dreyfus. 1,454,961; May 15.
Cement, Aromatic hydrocarbon. W. S. Barrie and L. Chadwick. 1,455,598; May 15.
Chair: *See*—
Combination chair.
Chair seat. E. Thompson. 1,455,234; May 15.
Check-pad holder. C. W. Jones. 1,455,620; May 15.
Chiropractic adjustment machine. E. H. Ashlock. 1,455,320; May 15.
Chisels, Fixture for grinding beveled. J. F. Nagle. 1,455,405; May 15.
Chloride, Producing anhydrous metallic. B. S. Kirkpatrick and F. S. Morgan. 1,455,005; May 15.
Chlorides of naphthalenes serving as substitutes for rosin, Refining mixture of. K. Rücker. 1,455,509; May 15.
Chopping and sliding machine. L. W. Scarborough. 1,455,173; May 15.
Chuck. J. A. Olson. 1,455,351; May 15.
Chucking device, Electric-operating. E. P. Bullard, jr. 1,455,283; May 15.
Cigar cutter. L. de Matto. 1,454,994; May 15.
Cigar lighter, Electric. M. H. Shoenberg. Des. 62,366; May 15.
Cigar lighter and standard, Electric. M. H. Shoenberg. Des. 62,367; May 15.
Cigarette, Self-lighting. J. W. McClain. 1,454,902; May 15.
Cinematograph apparatus. F. W. Portass. 1,455,766; May 15.
Cinematographic objectives, Method of and apparatus for distant regulation of. L. Gaumont and L. R. Decaux. 1,454,850; May 15.
Clamp: *See*—
Bit clamp.
Clamp. M. Berman. 1,445,067; May 15.
Clamp. R. Burbank. 1,445,709; May 15.
Cleaner: *See*—
Pea cleaner. Spark-plug cleaner.
Cleaning composition. M. Y. Needle. 1,455,350; May 15.
Cleaning device. J. B. Kirk. 1,455,623; May 15.
Clock. T. S. Casner. 1,454,955; May 15.
Clock, Secondary electric. T. S. Casner. 1,454,954; May 15.
Clocks, Chime-rod holder for. W. J. Herschede and W. Eberhardt. 1,455,024; May 15.
Cloth-cutting machine. C. J. McGee. 1,445,501; May 15.
Cloth, Reed for weaving wire. H. Lindsay. 1,455,537; May 15.
Clothesline holder. J. C. McConnal. 1,445,636; May 15.
Clutch. A. P. Hamilton. 1,455,587; May 15.
Clutch control. O. G. Stark. 1,455,676; May 15.
Clutch, Master. W. Turnbull. 1,455,460; May 15.
Coal and like substances and impurities mingled therewith, Method of and apparatus for separating. W. D. Althouse. 1,455,469; May 15.
Cock holder, Angle-. C. M. Hannaford. 1,455,609; May 15.
Code table. C. F. Wood. 1,455,157; May 15.
Coil and condenser treatment. F. J. Groten, jr. 1,455,190; May 15.
Coils, Forming flat. H. G. Cox. 1,455,188; May 15.
Collar, Folding. J. M. van Heusen. 1,455,683; May 15.
Column, Frictionating. H. C. P. Weber. 1,454,874; May 15.
Combination chair. F. G. Kapelman. 1,455,255; May 15.
Coin-deposit receptacle. J. N. Burno. 1,454,919; May 15.
Composition of matter. N. L. Olson. 1,455,651; May 15.
Concrete-block machine. F. S. Lindley. 1,455,296; May 15.
Concrete-block machine. W. A. Whitfield. 1,455,317; May 15.
Conductor connection. J. T. Tighe. 1,455,415; May 15.
Container, Metal. W. T. Davies. 1,454,958; May 15.
Containers, Hinged cover for. F. W. Downs. 1,455,133; May 15.
Control system. G. W. Hurtt. 1,454,928; May 15.
Conveyer. M. Ellrich. 1,455,433; May 15.
Conveyer, Endless. S. G. Margles and C. W. E. Niendorff. 1,455,542; May 15.
Conveyer mechanism. R. S. Jacobsen. 1,455,336; May 15.
Conveyers, Fastening of trays to. M. Ellrich. 1,455,434; May 15.
Cooker and heater, Fireless. M. J. McFarlane. 1,455,638; May 15.
Cooking apparatus. N. V. Turner. 1,455,312; May 15.
Coon, Knockdown chicken. W. L. Butcher. 1,455,105; May 15.
Core, Collapsible. J. F. Wallace. 1,455,686; May 15.
Core holder or support. H. A. Foothorap. 1,455,195; May 15.
Cork and other products from bark, Recovering. G. C. Howard. 1,455,762; May 15.
Cotton cleaner and boll crusher. C. R. Wood. 1,455,765; May 15.
Counterturning machine. F. A. Reardon. 1,455,548; May 15.
Coupling: *See*—
Flexible coupling. Impulse coupling.
Hose coupling. Rail coupling.
Coupling. J. Corgist, jr., and J. J. Dusevoir. 1,455,242; May 15.
Cover fastener. T. C. Wentworth. 1,455,316; May 15.
Covers to seat frames and the like, Clip for fastening. C. P. Trimble. 1,455,754; May 15.
Crank, Safety. L. Rudolph. 1,455,226–9; May 15.
Cream ripener and pasteurizer. C. J. Westergaard. 1,455,012; May 15.
Creams and the like, Container for toilet. W. B. James. Des. 62,362; May 15.
Cultivator, Tractor. C. E. Downie and G. D. Gravely. 1,455,046; May 15.
Cup: *See*—
Grease cup. Oil cup.
Currents, Means for detecting small electric. J. S. E. Townsend. 1,455,458; May 15.
Curtain rod, Extension. W. J. Bergens. 1,455,102; May 15.
Cutter: *See*—
Cigar cutter.
Cutters, Self-feeder for feed. F. Kolarik. 1,455,402; May 15.
Cutting and length-gauging machine. G. Tilton and A. O. Abbott, jr. 1,455,366; May 15.
Cutting tool. W. W. Lyons and G. E. McElroy. 1,455,297; May 15.
Cylinder and making same, Air-cooled engine. A. C. McCord. 1,455,025; May 15.
Cylinder lock. E. Epstein. 1,455,577; May 15.
Dam. F. A. Noetzli. 1,455,092; May 15.
Dental floss dispenser. V. J. Shalek. 1,455,673; May 15.
Dental lancet for surgical treatment of pyorrhea. W. Ziesel. 1,455,374; May 15.
Dental technics, Electric clutch coupling for use in. E. Huet. 1,455,491; May 15.

Dental tray. L. Balter. 1,455,518; May 15.
Detector, Crystal. G. Greco and K. G. Wolff. 1,454,997; May 15.
Dictaphones, etc., Diaphragm for. H. C. Egerton. 1,455,745; May 15.
Die: *See*—
Casting die.
Dies, Machinery for making. H. C. Rickenbach. 1,455,266; May 15.
Dieing and other machines, Feeding mechanism for. W. G. Allen. 1,454,841; May 15.
Diphenylenediketones from anthracene compounds, Manufacture of. G. Peters. 1,455,448; May 15.
Dipping machine. B. M. Griffith. 1,455,585; May 15.
Disk wheel. W. A. Gibson, No. 1,455,332; May 15.
Display device. A. T. Haskell. 1,455,610; May 15.
Display dispenser. W. Rellihan. 1,454,860; May 15.
Ditching machine. J. H. Johnson. 1,455,494; May 15.
Doffing apparatus. E. R. Alderman. Re15,604; May 15.
Door closer, Automatic. L. O. West. 1,455,691; May 15.
Door construction. H. Moecker, jr., and T. Thompson. 1,455,595; May 15.
Door lock. N. B. Hurd. 1,455,251; May 15.
Door lock. S. R. Stevens. 1,455,677; May 15.
Door-opening mechanism, Hydraulic. C. L. Du Bois. 1,455,607; May 15.
Door-operating mechanism. J. F. Streib. 1,455,310; May 15.
Door stop. A. Rodell. 1,455,550; May 15.
Doughnut-machine attachment. A. Schoel. 1,455,174; May 15.
Dough-sheeting apparatus. F. M. Peters and W. H. Hungerford. 1,455,120; May 15.
Drains and the like, Trap for. C. M. Sylvester. 1,455,279; May 15.
Dress guard and chair holder. I. J. Evin. 1,455,722; May 15.
Drift and fish retarder. D. W. Keller. 1,455,210; May 15.
Drill: *See*—
Rock drill.
Drill. H. P. Gerdil. 1,454,951; May 15.
Drills, Motor rotation for rock. F. M. Slater. 1,455,553; May 15.
Driving element, Friction. W. S. Crandell. 1,455,389; May 15.
Drying apparatus, Electrical. J. W. Small. 1,455,034; May 15.
Drying appliance. H. J. Bosch. 1,455,238; May 15.
Drying machine, Carpet-. T. Allsop and W. W. Sibson. 1,455,755; May 15.
Dumping apparatus. G. A. Curlee. 1,455,602; May 15.
Dust conveyer and ash sifter, Combined. H. S. Schmidt. 1,455,669; May 15.
Dusting machine, Crop-. C. G. Allgrunn. 1,455,561; May 15.
Dyes of benzene-naphthalene-acridine series and their manufacture. H. Grünhagen. 1,455,488; May 15.
Dyes of the acridine series and their manufacture. H. Grünhagen. 1,455,486; May 15.
Dyes of the acridine series and process for their manufacture. H. Grünhagen. 1,455,487; May 15.
Dyeing machines, Yarn-stick-supporting member for. J. H. and D. M. Giles. 1,455,247; May 15.
Educational device. H. G. Cress. 1,455,522; May 15.
Elastic wheel. P. Marchetti. 1,454,974; May 15.
Electric battery. D. Pepper. 1,454,943; May 15.
Electric dehydrator. F. W. Harris. 1,455,139; May 15.
Electric heater. I. L. Hadley. 1,455,287; May 15.
Electric immersion heater. M. C. Furstenau. 1,455,246; May 15.
Electric induction furnace. A. E. Greene. 1,455,748; May 15.
Electric machine, Dynamo-. R. E. Hellmund. 1,454,925; May 15.
Electric resistance. O. Weber. 1,455,462; May 15.
Electric sadiron. R. J. Hovey. 1,455,205; May 15.
Electrical system. C. S. Cook. 1,455,572; May 15.
Electrolysis mitigation. G. G. Jones. 1,454,895; May 15.
Elevator: *See*—
Grain elevator.
Emblem, button, brooch, fob, or similar article. V. L. Bentson. Des. 62,371; May 15.
Emblems and the like, Blank for. G. W. Heene. 1,455,259; May 15.
Embossing machine, Foil-. J. Prudhomme. 1,455,172; May 15.
Emergency brake. A. C. Elliott. 1,455,576; May 15.
Emergency brake. C. G. Sewell. 1,455,666; May 15.
Engine: *See*—
Gas engine. Towing engine.
Internal-combustion engine.
Engine-starting system. J. K. Delano. 1,455,717; May 15.
Engines, Air-compressing attachment for. C. A. Cox. 1,455,601; May 15.
Engines, Burner for internal-combustion. E. L. Lowe. 1,454,972; May 15.
Engines, Crosshead design for reciprocating. R. Hildebrand. 1,455,334; May 15.
Engines, Frame suspension for traction. E. E. Wickersham. 1,455,465; May 15.
Engines, Fuel preparing apparatus for gas. F. G. Wright. 1,455,183; May 15.
Engines, Fuel pump for internal-combustion. J. Leroy. 1,455,628; May 15.
Engines, Fuel pump for internal-combustion. E. H. Tartrais. 1,455,125; May 15.
Engines, Governor for steam. M. Brunet. 1,455,568; May 15.
Engines, Muffler for internal-combustion. H. T. Thomas. 1,454,986; May 15.
Engines, Thermo system for internal-combustion. W. B. Ingram. 1,455,335; May 15.
Envelope. E. F. Ahlquist. 1,455,419; May 15.
Envelope-delivery machine. D. Colosi. 1,455,241; May 15.
Envelopes and receptacles, Fastening and handle for paper. J. W. Bunker and A. M. Boney. 1,454,952; May 15.
Envelopes or bag, Paper. J. W. Bunker and A. M. Boney. 1,454,953; May 15.
Ether, Recovery of. J. H. Brégeat. 1,455,707; May 15.
Excavating and loading apparatus. G. Weldinger. 1,455,689; May 15.
Excavating machine. W. G. Howe and F. R. White. 1,455,206; May 15.
Excavating machine. J. A. MacKillican and F. D. Lipcsey. 1,455,541; May 15.
Excavating wheel. J. Duder. 1,455,608; May 15.
Exhaust mains, Cooling means for. J. van Ackeren. 1,455,059; May 15.
Exploder, Delay-action. E. Cudney. 1,455,165; May 15.
Explosive, Propulsive blasting. A. J. Strane. 1,455,309; May 15.
Extensible table. I. Cooklin. 1,455,599; May 15.
Extension device. J. Danese. 1,455,715; May 15.
Extractor: *See*—
Fruit-juice extractor. Weed extractor.
Eye protector, Self-acting. K. Kerujenny and W. Balzer-Alber. 1,455,025; May 15.
Fan and stop therefor, Spring-motor-driven. A. O. Larson. 1,455,534; May 15.
Fastening device. J. F. Langenau. 1,455,625; May 15.
Fats, Utilization of edible. M. Kahn. 1,455,264; May 15.
Favor and snapping motto. A. G. Palmer. 1,455,653; May 15.
Fencepost. H. T. Kline. 1,455,168; May 15.
Fender: *See*—
Automobile fender.
Fender brace. C. J. Fangel. 1,455,327; May 15.
Fender protector. E. S. Ludlow. 1,455,538; May 15.
Films, Printing frame for roll. A. W. Standfield. 1,455,308; May 15.
Filtering apparatus. W. Paterson. 1,455,505; May 15.
Filtration. G. H. Fifield. 1,455,436; May 15.
Finger ring. W. A. H. Robinson. Des. 62,388; May 15.
Fire and country damage, Cotton bale and material and method for rendering the same proof against. H. V. Haley. 1,455,749; May 15.
Firearm, Automatic. R. Musitelli. 1,455,503; May 15.
Firearms. Rear sight for. J. M. Browning. 1,455,071; May 15.
Fire box. R. B. Taylor. 1,455,681; May 15.
Fire-door-operating mechanism. A. C. Roebuck. 1,455,095; May 15.
Fireproof walls or partitions, Frame construction for. C. Collins. 1,455,711–2; May 15.
Fisherman's flybook. A. S. Langbein. 1,454,932; May 15.
Fishing and swaging tool, Combined. A. B. Watkins. 1,455,314; May 15.
Fishing reel. S. G. Russell. 1,455,358; May 15.
Flax and like textile substances, Textile machine for. C. F. Lesage. 1,455,629; May 15.
Flexible coupling. E. E. Brown. 1,455,425; May 15.
Fluid-circulating system, Grinding. G. Brown. 1,455,187; May 15.
Fluids, Radiator for cooling. S. W. Rushmore. 1,455,736; May 15.
Fluids, Radiator for cooling. S. W. Rushmore. 1,455,738–9; May 15.
Flues, Manufacturing. F. Hofinger. 1,455,440; May 15.
Folding table. J. W. Bereman. 1,455,066; May 15.
Follower ring. S. W. Manning. 1,455,643; May 15.
Food products, System for selling and packing. W. Green. 1,454,888; May 15.
Forming machine. J. A. Henry and T. S. Wait. 1,455,489; May 15.
Frame: *See*—
Bedspring frame. Window frame.
Fruit, Cooking vessel for glazing. W. J. O'Brien. 1,454,856; May 15.
Fruit-juice extractor. O. Brophy. 1,454,918; May 15.
Fuel-feeding apparatus. J. E. Muhlfeld and V. Z. Caracristi. 1,454,970; May 15.
Fuel, Furnace for liquid. E. Becker. 1,455,186; May 15.
Fuel-stoking structure. E. L. Barnes. 1,455,756; May 15.
Furnace: *See*—
Bath furnace. Gas furnace.
Electric induction furnace. Heating furnace.
Furnace. B. F. Caldwell. 1,455,018; May 15.
Furnaces, Apparatus for drying charges for shaft. E. Diepschlag. 1,455,392; May 15.

Furniture, Article of. P. Caminoni, jr. 1,455,569; May 15.
Furniture, Means for mothproofing. I. J. Weinberg. 1,455,463; May 15.
Furring and fastening device. O. T. Crowe. 1,455,248; May 15.
Fuse. E. J. T. Wennerstrom. 1,455,741; May 15.
Fuse plug. W. P. Briggs. 1,455,566; May 15.
Game. D. J. Duquette. 1,455,193; May 15.
Game. H. T. Pye. 1,454,982; May 15.
Game. W. F. Schmidt. 1,455,552; May 15.
Game apparatus. H. L. Condé. 1,455,045; May 15.
Game apparatus, Educational. M. L. Warren. 1,445,098; May 15.
Game scorer, Card-. A. D. Walker. 1,455,416; May 15.
Garments, Packing and shipping case for. J. T. Batts. 1,455,063; May 15.
Garments, Suspending device for. H. Z. Nabers. 1,455,302; May 15.
Garter. D. C. Lash. 1,454,933; May 15.
Gas engine, Rotary. T. Cushman. 1,455,324; May 15.
Gas furnace. H. E. Fendring. 1,454,983; May 15.
Gas heater, Radiant. W. W. Holloway and H. Kielberg. 1,455,051; May 15.
Gas producer, Furnace. C. E. Wentzel. 1,455,181; May 15.
Gases and product containing dissolved gas, Handling. H. C. P. Weber. 1,454,873; May 15.
Gaseous mixtures, Method and apparatus for testing. G. G. Oberfell. 1,455,263; May 15.
Gasket-making machine. W. P. Zommer and G. F. Magdziarz. 1,455,560; May 15.
Gate: *See*—
Adjustable gate.
Gauge: *See*—
Pump and gauge.
Gauge pin. E. L. Megill. 1,455,346; May 15.
Gear, Coarse-pitch spiral bevel. F. A. Bower and B. Cataline. 1,455,706; May 15.
Gear, Differential. B. O'Donnell. 1,455,650; May 15.
Gear selecting and changing device. J. Blackburn. 1,455,161; May 15.
Gearing, Reduction. W. E. Sharkey. 1,455,360; May 15.
Generator. E. L. Stangeland. 1,455,275; May 15.
Gins, Pneumatic elevator for elevating seed cotton for. C. R. Wood. 1,455,764; May 15.
Gins, Roll-box structure for. A. A. Vardell. 1,455,685; May 15.
Gland, Stuffing-box. M. Di Lorenzo. 1,455,606; May 15.
Glass, Process of and apparatus for feeding molten. W. A. Lorenz. Re15,600; May 15.
Golf club. W. S. Allen. 1,455,379; May 15.
Golf club. A. A. Kraeuter. 1,455,256; May 15.
Governor, Electro-mechanical differential. R. B. Goldschmidt and R. Brailliard. 1,455,483; May 15.
Grain elevator. C. Mettler, sr. 1,455,301; May 15.
Grain separator. O. W. Williams. 1,455,693; May 15.
Grapple. H. Collins. 1,455,020; May 15.
Grate, Chain. E. L. Brown, jr. 1,455,040; May 15.
Grate, Chain. R. S. Geare. 1,454,965; May 15.
Grease cup. R. Hunt and L. D. Freeman. 1,454,892; May 15.
Grinding apparatus. R. E. Fosdick. 1,455,286; May 15.
Grinding wheels, Dressing tool for. T. Larsson. 1,455,213; May 15.
Hair curler. J. Ranz. 1,455,659; May 15.
Hair curler. A. W. Rossberg. 1,455,148; May 15.
Hair, Electric oven for. A. M. Wright. 1,455,696; May 15.
Hair goods, Apparatus for manufacturing. T. Charles. 1,454,956; May 15.
Hair or the like, Power-driven implement for cutting. W. G. Shelton. 1,455,274; May 15.
Hand reel. J. Joslin. 1,455,167; May 15.
Handle: *See*—
Implement handle.
Hanger: *See*—
Cable hanger. Lamp hanger.
Car-door hanger.
Hangers, Insert for. W. E. White. 1,455,036; May 15.
Harrow and pulverizer. O. Ingman. 1,455,729; May 15.
Harvester, Beet. L. V. Cirac. 1,455,107; May 15.
Hatpin. Y. Tsutsui. 1,455,126; May 15.
Halter. J. B. Miner. 1,455,445; May 15.
Headlight, Multiple-filament electric-lamp. H. H. Slater. 1,455,033; May 15.
Headlight, Self-adjusting. W. H. Cornwell. 1,455,600; May 15.
Headlights on the bodies of motor cars, Device for mounting. A. Vallot. Re15,607; May 15.
Heat deflector. F. E. White. 1,455,417; May 15.
Heater: *See*—
Electric heater. Manifold heater.
Electric immersion heater. Oil heater.
Gas heater.
Heater. J. A. Clymer. 1,455,076; May 15.
Heater and kindler. G. Bluemel. 1,455,069; May 15.
Heaters, Damper control for. A. E. Sharples. 1,455,271; May 15.
Heaters, Radiant support and holder for gas. W. W. Holloway and H. Kielberg. 1,455,052; May 15.
Heating furnace. C. A. Bohn. 1,455,267; May 15.
Heating metal, Electric process of continuously. A. E. Greene and W. B. Runyan. 1,455,747; May 15.
Heating system. E. A. Jones. 1,455,338; May 15.
Helicopter. A. Overbeck. 1,455,352; May 15.
High-frequency signaling system. W. R. G. Baker. 1,455,099; May 15.
Hinge. G. W. Wells. 1,455,690; May 15.
Hogs, Crate for catching and holding. W. L. Barlow. 1,455,101; May 15.
Hoist. H. S. Valentine. 1,455,369; May 15.
Hoisting apparatus. G. G. Lendi. 1,455,214; May 15.
Hoisting device, Movable. F. J. Bryant. 1,454,881; May 15.
Honey receptacle. G. W. Spikes. Des. 62,368; May 15.
Hood latch. J. F. White. 1,455,371; May 15.
Hook and eye. J. J. Abrahams. 1,455,698; May 15.
Hopple. J. B. Kopf. 1,455,341; May 15.
Horses, Nonslip device for. M. Hallanan. 1,454,999; May 15.
Horseshoe. C. L. Luallen. 1,455,632; May 15.
Hose. E. Schulthess. 1,455,359; May 15.
Hose coupling, Air-. H. G. Schowe and H. J. Hansen. 1,455,451; May 15.
Household mixing apparatus. J. H. Russell. 1,455,664; May 15.
Hub-cap attachment. C. F. Reilley and J. J. Ludwig. 1,455,306; May 15.
Hydrant, Box and lid. G. M. Hall. 1,455,723; May 15.
Hydraulic jack. A. Paoli. 1,455,223–4; May 15.
Hydropneumatic device. N. M. Delong. 1,455,718; May 15.
Hypsometer. R. G. Merritt. 1,455,347; May 15.
Ice box or refrigerator. C. S. Johnson. 1,455,003; May 15.
Ice-cream freezer. R. M. Woods. 1,455,418; May 15.
Illustrative display sheet. I. G. Stevens. 1,455,123; May 15.
Implement handle. L. H. Mertz. 1,455,502; May 15.
Impulse coupling. J. Pauly. 1,454,942; May 15.
Index tab. W. A. Hardy. 1,455,288; May 15.
Indexing device. E. P. Bullard, jr. 1,455,282; May 15.
Indicia-carrying rack. J. R. Dumont. 1,455,192; May 15.
Indicator: *See*—
Automobile direction indicator. Street indicator.
Telephone indicator.
Indicator. A. Sundh and W. Westerman. 1,455,277; May 15.
Inductance coil. E. G. Danielson. 1,455,081; May 15.
Induction motor, Commutator repulsion. C. A. M. Weber. 1,454,872; May 15.
Ingot-mold and ingot. E. Gathmann. 1,455,197; May 15.
Inhaler. E. W. Blackwood. 1,455,385; May 15.
Initiation device. U. S. De Moulin. 1,455,113; May 15.
Inner tube. H. F. Bledsoe. 1,455,038; May 15.
Insect trap. L. L. Belnap. 1,455,100; May 15.
Insulating composition for electrical apparatus. F. J. Groten, jr. 1,455,200; May 15.
Insulating tape. H. I. Diamond. 1,455,744; May 15.
Internal-combustion engine. J. Davidson. 1,455,132; May 15.
Internal-combustion engine. C. M. Leech. 1,454,934; May 15.
Internal-combustion engine. J. T. Rauen. 1,455,008; May 15.
Internal-combustion engine. J. V. Roderick. 1,454,862; May 15.
Internal-combustion engine. F. Schafer. 1,455,269; May 15.
Iron oxide and other products from spent iron sludge, Recovering. C. V. Bacon. 1,455,060; May 15.
Iron rest and cleaner. L. D. Grenda. 1,455,484; May 15.
Ironing board and cabinet. G. W. Montgomery. 1,455,446; May 15.
Ironing machine. C. E. Waream and D. H. Benjamin. 1,455,155; May 15.
Irrigating device. J. P. Campbell. 1,454,844; May 15.
Irrigation risers, Portable head for. V. E. Nicolaides. 1,455,406; May 15.
Jack: *See*—
Hydraulic jack. Screw jack.
Lifting jack.
Jaw chuck, Swing-. C. F. Axelson. 1,455,017; May 15.
Joint: *See*—
Pipe joint. Stovepipe-reducing joint.
Rail joint.
Kettle lid-raising means. W. H. S. Brewer. 1,455,070; May 15.
Key fastener. A. A. Lawson. 1,455,627; May 15.
Knitting machine, Circular-. R. W. Walton. 1,455,370; May 15.
Ladder foot. A. Johnson. 1,455,002; May 15.
Ladders, Platform for. M. R. Myers. 1,455,220; May 15.
Lamp. H. G. Fitz Gerald. 1,455,245; May 15.
Lamp, Dirigible. W. Schierding. 1,455,149; May 15.
Lamp hanger. E. M. Larkins. 1,454,855; May 15.
Lamp, Miner's. W. W. Zickler. 1,455,130; May 15.
Lamp, Portable. W. F. Lent. 1,455,592; May 15.
Lamp shade. W. F. Rusche. Des. 62,365; May 15.
Lamp standard. F. Yokel. Des. 62,370; May 15.
Lamps, Base for portable. W. F. Lent. 1,454,935; May 15.
Lamps, Cleaner for burners of carbide. J. W. Jacobson and J. E. Turja. Re15,598; May 15.
Lap former, Toric-. A. E. Maynard and W. A. Gunning. 1,455,444; May 15.

Lathe. A. Wormser. 1,455,558; May 15.
Leather, Making artificial. R. B. Respess. Re15,602; May 15.
Ledger sheet. J. A. B. Smith. 1,455,740; May 15.
Leer. L. Steelman. Re15,603; May 15.
Legging. E. C. Keyes. 1,455,400; May 15.
Lens block. H. W. Hill. 1,455,438; May 15.
Lens holder. H. W. Hill. 1,455,439; May 15.
Lens, Trial. E. D. Tillyer. 1,455,457; May 15.
Letter box and changeable sign, Combined. W. W. Christian and A. G. Maxey. 1,454,882; May 15.
Lever, Clutch-release. J. R. Howell. 1,454,891; May 15.
Lever handle guard, Brake-. J. Besch. 1,455,563; May 15.
Lever mechanism. N. Ayers. 1,455,421; May 15.
Lever with automatically variable ratio of transmission, Hand or pedal. W. Ochs. 1,455,447; May 15.
Lifter: *See*—
Ash-pan lifter. Pin lifter.
Lifting device. E. J. Hill. 1,455,727; May 15.
Lifting jack. O. B. Kincaide. 1,455,622; May 15.
Light: *See*—
Recording light.
Lighting fixture. H. C. Adam. 1,455,375; May 15.
Lighting fixture. R. J. Cole. Des. 62,360; May 15.
Lighting fixture, Wall-bracket. H. Abrams. Des. 62,355; May 15.
Link, Fusible. J. Dawson. 1,454,848; May 15.
Links, Removable grouser for track. P. E. Holt. 1,455,490; May 15.
Liquid-dispensing apparatus. A. Bowser. Re15,606; May 15.
Liquid-dispensing apparatus. J. A. Lewin and G. P. Bartlett. 1,455,593; May 15.
Liquid-dispensing system. S. D. Love. 1,454,971; May 15.
Liquid-fuel burner. F. Martindell. 1,454,975; May 15.
Liquid or vapor fuel burner. C. O. Everhart. 1,455,135; May 15.
Liquids and solids, Means for separating the liquid and solid components of mixtures of. A. J. Arbuckle. 1,454,916; May 15.
Loader, Shock. S. Olson. 1,455,029; May 15.
Lobster trap. A. A. Axiotes. 1,455,381; May 15.
Lock: *See*—
Automobile lock. Door lock.
Cylinder lock. Nut lock.
Lock. P. Kondrad. 1,455,294; May 15.
Loom. F. C. Hall and J. Townson. 1,455,048; May 15.
Lounge, Day-bed. J. H. Levin. 1,455,215; May 15.
Lubricating device. D. P. Fesler. 1,454,922; May 15.
Lubricating system. C. Finnell. 1,455,244; May 15.
Lubricator. H. J. Shaver. 1,455,272; May 15.
Luggage carrier. J. J. Hanrahan. 1,455,023; May 15.
Lumber trimmer, Automatic. C. W. Willette. 1,454,992; May 15.
Magazine, Detonator. A. M. James. 1,455,492; May 15.
Manicure instruments, Case for. S. H. Kaufmann. 1,455,004; May 15.
Manifold heater. W. T. Seitz. 1,454,866; May 15.
Marker. B. Yoshinaga. 1,455,160; May 15.
Measuring and dispensing apparatus, Liquid. A. D. Wickoff and H. P. de Correvont. 1,455,184; May 15.
Measuring and indicating apparatus. H. Brewer. Re15,597; May 15.
Measuring structure, Liquid-. E. L. Barnes. 1,455,757; May 15.
Medal holder. A. Maurer. 1,455,143; May 15.
Medical compound. W. C. Grove. 1,455,485; May 15.
Mercury derivatives of aromatic compounds and manufacturing same. A. Klages. 1,455,495; May 15.
Metal-working machine and attachment therefor. P. Sterckler. 1,455,554; May 15.
Metals, Uniting. H. A. and W. T. Soulis. 1,455,307; May 15.
Methane, Making the chlorinated products of. E. H. Riesenfeld. 1,455,508; May 15.
Milking device. H. R. Seifert. 1,455,672; May 15.
Mill: *See*—
Ball mill.
Mill. A. Sundh. 1,455,279; May 15.
Mirrors and the like, Bracket for supporting. W. La Hodny. 1,455,441; May 15.
Mold: *See*—
Casting mold. Tire mold.
Momentum-operated brake. J. Coutinho da Nobrega. 1,455,325; May 15.
Mop. A. Morrison. 1,454,940; May 15.
Mop holder. J. Mikenas. 1,454,978; May 15.
Motor. F. Hornby. 1,454,969; May 15.
Motor control. J. Eaton. 1,455,194; May 15.
Motor-control system. H. D. James. 1,455,618; May 15.
Motor-control system. R. T. Kintzing. 1,454,853; May 15.
Motor-control system. G. R. Scheer. 1,455,668; May 15.
Motor-control system. W. R. Tallaferro. 1,454,867; May 15.
Mower, Lawn. W. E. Tate, sr. 1,454,912; May 15.
Musical instruments, Mute for stringed. A. D. Grover. 1,454,923; May 15.
Mustard and other condiments, Receptacle for. A. J. Greaves. 1,455,333; May 15.
Necktie. J. A. Soderstrom. 1,455,362; May 15.
Necktie holder. N. J. Darden. 1,455,604; May 15.
Newspaper-stacking mechanism. S. Halvorsen. 1,454,924; May 15.
Nitration apparatus. H. V. Walker. 1,454,870; May 15.
Nonskid chains, Safety fastening device for. L. Poli. 1,455,409; May 15.
Nonskidding device. A. W. Olsen. 1,455,408; May 15.
Nut, Automatic lock. B. Lindsay. 1,455,057; May 15.
Nut-cracking machine. M. F. Riddle. 1,455,449; May 15.
Nut lock. R. B. Adams. 1,455,700; May 15.
Oil and gasoline dispensing apparatus, Combined lubricating-. W. E. Keesee. Des. 62,363; May 15.
Oil burner. F. Hardinge. 1,455,049; May 15.
Oil burner. C. W. Mummery. 1,454,980; May 15.
Oil-converting apparatus. J. H. Adams. 1,455,377; May 15.
Oil cup. F. H. Elwell. 1,455,086–7; May 15.
Oil heater. G. W. Coen. 1,455,164; May 15.
Oil separator. P. H. Gentzel. 1,455,136; May 15.
Oil separator. H. E. Moffat. 1,455,348; May 15.
Oils, Converting. J. H. Adams. 1,455,376; May 15.
1-allyl-3,7-dimethylxanthine, Easily and neutrally soluble double compounds of. E. Freiswerk. 1,455,264; May 15.
Opener. J. Barr. 1,455,702; May 15.
Ophthalmic mounting. G. L. Tully and W. H. Boutelle. 1,455,512; May 15.
Optical instrument. J. T. Thompson. 1,455,011; May 15.
Optical system. J. M. Boyle. 1,454,950; May 15.
Ornamental article and producing the same. N. S. Clay. 1,454,845; May 15.
Oven, Coke. P. Goffart. 1,455,527; May 15.
Oven, Electric bake. J. Hieb. 1,455,290; May 15.
Packages, Apparatus for handling. F. M. Sheen. 1,455,273; May 15.
Packaging apparatus. C. G. Belden. 1,455,037; May 15.
Packing. O. W. Trumbull. 1,455,682; May 15.
Pad: *See*—
Stamp-inking pad.
Painting machine, Tube-. P. Bellows. 1,455,065; May 15.
Paper container. F. Coates. 1,454,846; May 15.
Paper, Manufacturing watermarked. W. S. Lucey. 1,455,752; May 15.
Paper pulp, Machine for straining. J. Paramor. 1,455,303; May 15.
Paper stock, Treating. F. P. Miller. 1,455,594; May 15.
Pea cleaner. A. Jacobsen. 1,455,208; May 15.
Pea-hulling machine. A. Heuckendorff. 1,455,202; May 15.
Pencil. W. R. Noe. 1,455,170; May 15.
Pen filler, Fountain-. P. S. Hauton. 1,455,611; May 15.
Pen, Fountain. D. L. Eastman. 1,455,590; May 15.
Petroleum-distillation process. V. T. Gilchrist. 1,455,437; May 15.
Phonograph. I. Karish and J. Kernes. 1,455,209; May 15.
Phonograph record and record blank and making the same. W. M. Venable. 1,455,129; May 15.
Phonograph reproducers, Stylus for. J. A. Brown. 1,454,951; May 15.
Phonograph turntable. J. J. Reinhold. 1,455,355; May 15.
Phonographs, Automatic stop for. G. W. Eichelberger, jr. 1,455,326; May 15.
Phonographic record file. E. C. Briggs. 1,455,565; May 15.
Photographically the deviation of errors, Apparatus for practicing, sighting, and determining. O. Messter. 1,455,007; May 15.
Photographic plate and utilizing the same. A. P. Hantsch. 1,455,724; May 15.
Picture film, Motion-. C. J. Coberly. 1,455,428; May 15.
Picture machine, Motion-. J. Doherty. 1,455,393; May 15.
Picture machine, Motion-. A. C. Roebuck. 1,455,096; May 15.
Picture machines, Film guide for motion-. T. F. Uhlemann. 1,455,367; May 15.
Picture machines, Tension device for moving-. T. F. Uhlemann. 1,455,368; May 15.
Picture or advertising exhibitor. B. Waters. 1,455,461; May 15.
Pile-driving apparatus. E. H. Hopson. 1,454,927; May 15.
Pin: *See*—
Gauge pin.
Pin lifter. J. R. Jones. 1,455,533; May 15.
Pipe: *See*—
Tobacco-smoking pipe.
Pipe grip. C. M. Heeter. 1,455,612; May 15.
Pipe joint. A. M. Hirsh and J. C. Mitchell. 1,455,250; May 15.
Pipes, Composition for tobacco. W. W. Hesson. 1,455,396; May 15.
Piston for engines. R. S. Trott. 1,454,868; May 15.
Piston valve cylinders, Gauge for. C. W. Deuter. 1,455,083; May 15.
Pitter. H. L. Cummins. 1,455,323; May 15.
Planting machine. J. Blatecky. 1,454,949; May 15.
Plaster-board apparatus. C. W. Utzman. 1,455,127; May 15.
Plastic material, Machine for molding articles from. F. W. McArdle. 1,455,634; May 15.
Plates, Frame for supporting transparent. A. Wolff. 1,455,373; May 15.

Plastic materials, Making articles of varicolored. H. N. Michaelsen. 1,454,939; May 15.
Plastic structures and apparatus for use in same, Molding. G. A. Bonelli. 1,455,039; May 15.
Plate, Flush wall receptacle. W. R. Keavaney. 1,455,390; May 15.
Pliers, Distance-operated cutting. P. Seccamani. 1,455,671; May 15.
Plow, Gang disk. S. D. Walton. 1,455,687; May 15.
Plug, Connection. W. E. Price. 1,454,858; May 15.
Pneumatic-dispatch-tubing systems, Carrier for. J. T. Needham. 1,455,547; May 15.
Precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature. S. Heller. Des. 62,375–86; May 15.
Press: *See*—
Briquette-forming press.
Press. J. I. Pogue. 1,455,304; May 15.
Presses, Drop board for drop. B. Allen. 1,455,420; May 15.
Pressing machine, Seam-. W. Wilkie. 1,455,692; May 15.
Pressing machines, Padding-cover clamp for. W. Colclough. 1,455,108; May 15.
Primer and carburetor control, Combined Ford. R. T. Woodhead. 1,455,318; May 15.
Primer, Heating. H. G. Irwin. 1,454,929; May 15.
Printing apparatus. L. M. Todd and C. G. Tiefel. 1,454,914; May 15.
Printing device. M. J. Hoffman. 1,455,588; May 15.
Printing-machine register. J. Lewis. 1,455,500; May 15.
Printing presses, Mounting for make-up frames for. H. B. McBee. 1,455,257; May 15.
Projectile. W. P. Porter. 1,454,354; May 15.
Propeller, Marine. G. W. Lawson. 1,455,591; May 15.
Propellers, Control mechanism for. T. A. Dicks. 1,455,431; May 15.
Pulley and similar construction. W. F. Daggett. 1,455,479; May 15.
Pulp, Preparing. C. Bache-Wig. 1,455,471; May 15.
Pump. J. V. Giesler. 1,454,886; May 15.
Pump. B. C. White. 1,455,035; May 15.
Pump and gauge, Air. C. Millard. 1,455,646; May 15.
Pump, Dispensing and display. W. S. Townsend and F. E. Douglass. 1,455,235; May 15.
Pump or motor, Balanced hydraulic. W. F. Mayer. 1,455,443; May 15.
Pump or motor, Hydraulic. W. F. Mayer. 1,455,753; May 15.
Pump, Rotary. H. O. Jackson. 1,455,252; May 15.
Pump, Tire. H. Graham. 1,455,584; May 15.
Pump, Water. W. Larson. 1,455,626; May 15.
Pump, Water-driven. J. M. Collingwood. 1,455,078; May 15.
Pumping apparatus. H. H. Smith. 1,455,153; May 15.
Puzzle block. W. H. Schenk. 1,455,009; May 15.
Pyrometer. I. Lundgaard. 1,455,633; May 15.
Pyrotechnic display device. J. B. Van Doren. 1,455,097; May 15.
Rack: *See*—
Billiard-cue rack. Transcript rack.
Indicia-carrying rack.
Radio receiving apparatus. P. D. Lowell and F. W. Dunmore. 1,455,141; May 15.
Radium-applying means, Holding or supporting means for. W. H. Cameron. 1,455,476; May 15.
Rail coupling. E. T. Bennington. 1,454,948; May 15.
Rail joint. W. H. Swindell and L. Phillips. 1,455,680; May 15.
Rail joint. J. Woll. 1,455,695; May 15.
Rail mounting. R. W. Anderson. 1,454,915; May 15.
Railway brake. H. R. Griffiths and S. G. Walker. 1,455,137; May 15.
Railway signaling. J. S. Holliday. 1,455,761; May 15.
Rat trap. N. O. Nilsson. 1,454,941; May 15.
Razor-blade resharpener, Safety-. D. B. Brown. 1,455,567; May 15.
Razor, Safety. H. B. Hartman. 1,455,725; May 15.
Razor, Safety. H. B. Hartman. 1,455,750–1; May 15.
Razor, Safety. J. A. Johnson. 1,455,532; May 15.
Razor, Safety. A. E. Levene. 1,454,936; May 15.
Razor, Safety. J. Ruze. 1,455,665; May 15.
Razor, Safety. J. J. Short. 1,455,674; May 15.
Reamers, Holder for. J. Diesk. 1,455,480; May 15.
Receptacle, Collector. W. A. McClelland. 1,455,117; May 15.
Receptacle-supporting bracket. J. Tydings. 1,455,557; May 15.
Receptacles or containers, Manufacturing sheet-metal. H. B. Finley. 1,455,525; May 15.
Receptacles, Contents ejector for. R. W. Charlton. 1,455,322; May 15.
Recording device, Production-. M. J. Hoffman. 1,455,530; May 15.
Recording light, Apparatus for. T. W. Case. 1,455,074; May 15.
Reel: *See*—
Fishing reel. Washline reel.
Hand reel.
Reenforcement and fastener, Combination. T. C. Wentworth. 1,455,315; May 15.
Refrigerating apparatus of the absorption type. E. Altenkirch. 1,455,701; May 15.
Refrigerating system. G. Ferguson. 1,455,580; May 15.
Refrigeration, Apparatus for. R. A. Willson. 1,455,156; May 15.
Register: *See*—
Printing-machine register. Telephone-call register.
Regulating device. D. S. Jacobus. 1,455,337; May 15.
Resilient wheel. A. J. Arnoldson. 1,455,517; May 15.
Resilient wheel. B. F. Crum. 1,455,189; May 15.
Resilient wheel. S. D. Warner. 1,455,180; May 15.
Reversing mechanism having stationary sleeve. D. C. Klausmeyer. 1,455,401; May 15.
Reversing mechanism, Cushioning device for. H. E. Townsend. 1,454,987; May 15.
Rheostat. F. A. Rojas. 1,455,735; May 15.
Ribbon mechanism. M. C. Crawley. 1,455,110; May 15.
Ribbon shift and vibrating mechanism. M. C. Crawley. 1,455,111; May 15.
Rifles, Sight base for. H. S. Seely. 1,454,865; May 15.
Rigging, Coupling-release. S. H. Campbell. 1,455,386; May 15.
Rim, Demountable. O. L. Ingram. 1,455,730; May 15.
Rim, Demountable. J. G. Reed. 1,455,733; May 15.
Rim, Demountable. S. B. Varner. 1,455,684; May 15.
Rim, Split demountable. H. E. Geiver. 1,455,481; May 15.
Ring: *See*—
Follower ring.
Rock drill. J. J. McNamara. 1,455,640; May 15.
Rod: *See*—
Curtain rod.
Roller: *See*—
Shade roller.
Rubber footwear. T. E. La Fayette, A. A. Glidden, and J. J. Gaughan. 1,455,140; May 15.
Rubber or like material and process and apparatus for making same, Hollow articles of. H. Z. Cobb. 1,455,240; May 15.
Rubber or rubber-coated article. L. Minton. 1,455,544; May 15.
Rubber sole. G. Ferguson. 1,454,885; May 15.
Rubbing block. A. F. Wright and W. A. Stone. 1,455,559; May 15.
Rule, Circular slide. J. F. Keller and F. J. Badge. 1,455,339; May 15.
Rules, Joint for folding. F. Buck. 1,455,042; May 15.
Runway, Overhead. P. Martin. 1,454,937; May 15.
Sadiron holder, Safety. H. L. Jorgensen and A. N. Poulin. 1,455,026; May 15.
Safety device. B. S. Lee. 1,454,898; May 15.
Salamanders, Remotion of blast-furnace. G. W. Vreeland and G. E. Wisener. 1,455,313; May 15.
Sash-holding device, Window-. W. F. Watkins. 1,454,989; May 15.
Satchel. A. Semenick. 1,455,452; May 15.
Saucepans or other kitchen utensils, Insulating handle for. P. Armengaud. 1,455,760; May 15.
Saw sharpening and setting device. M. Jackson. 1,454,893; May 15.
Saw, Surgical. W. H. Joyner. 1,455,621; May 15.
Sawing machine. N. D. McArthur. 1,454,901; May 15.
Saw machine, Circular-. C. D. Charles. 1,455,426; May 15.
Scale, Counting. C. E. Riedel. 1,455,411; May 15.
Screw anchor, Expanding. J. Blackburn. 1,455,163; May 15.
Screw jack. A. Cleland. 1,455,571; May 15.
Screw propeller and similar appliance. J. H. W. Gill. 1,454,967; May 15.
Screws, System of helicopter. R. P. Pescara. 1,454,944; May 15.
Scrubbing machine. Q. Faustini. 1,455,746; May 15.
Sealing circulars, Machine for. A. H. Gustafson. 1,454,889; May 15.
Seamers, Safety stop for double. M. E. Widell. 1,454,876; May 15.
Seat: *See*—
Chair seat. Ventilated seat.
Seed, Preserving cotton. F. C. Atkinson. 1,455,016; May 15.
Separator: *See*—
Grain separator. Spiral separator.
Oil separator.
Serving table, Portable. M. E. Exum. 1,455,395; May 15.
Sewage, Treatment of. T. H. Fairbrother and A. Renshaw. 1,455,435; May 15.
Sewer flusher. A. Stafford. 1,455,177; May 15.
Sewing bench. W. A. Adams. Des. 62,356; May 15.
Sewing-machine-motor bracket. F. Diehl. 1,455,391; May 15.
Sewing-machine motors, Mounting for. H. Maimin. 1,455,345; May 15.
Sewing machines, Stop for. H. Z. Cobb. 1,455,387; May 15.
Shade holder. A. R. Hinderliter. 1,455,166; May 15.
Shade roller. A. Morpeth. 1,455,145; May 15.
Shade, Windshield. H. H. Bullock. 1,455,475; May 15.
Shears, Pruning. L. J. Barrett. 1,454,917; May 15.
Sheet-metal can. F. Westerbeck. 1,455,182; May 15.
Sheets, Drying oven for printed metal. C. E. McManus. 1,455,540; May 15.
Shield, Heat-deflection. G. E. Ryan. 1,455,551; May 15.
Shingle strip and making it. D. A. Cumfer. 1,455,713; May 15.
Shingle strips, Making. A. S. Speer. 1,455,232; May 15.

Shingle strips, Making. S. M. Langston. 1,455,342; May 15.
Shipping container. A. Schilling. 1,455,270; May 15.
Shipping, dispensing, and display box or carton, Combined. A. J. Ganz. 1,454,849; May 15.
Ship's hatch. E. E. von Tell. 1,455,613; May 15.
Shock absorber. D. B. D. Blake. 1,455,743; May 15.
Shock absorber. A. P. Mallory, jr. 1,454,973; May 15.
Shock absorber. C. C. Pfeiffner. 1,455,121; May 15.
Shock absorber. F. E. Poindexter. 1,454,905; May 15.
Shock absorber. W. S. Rath. 1,455,265; May 15.
Shoe machinery, Electric heater for. C. L. White. 1,454,875; May 15.
Shoe, Ventilated waterproof. L. Lazzari. 1,455,535; May 15.
Shoemaking. H. T. Doulett. 1,455,523; May 15.
Shotguns, Choke for. E. L. Rhinehart. 1,455,661; May 15.
Shovel. A. Weickman. 1,455,688; May 15.
Shutter mechanism, Intermittent-. A. C. Roebuck. 1,455,094; May 15.
Sifter, Flour. W. Adelmann. 1,455,319; May 15.
Sifter, Flour. J. Ranz. 1,455,660; May 15.
Sign. F. E. Brown. 1,455,474; May 15.
Sign, Advertising. A. W. Pressler. Des. 62,364; May 15.
Sign, Interchangeable and adjustable. C. T. Berry. 1,455,103; May 15.
Signal: *See*—
  Automobile signal. Stop and turn signal
Silos, Blower for. E. G. Fippenger. 1,455,329; May 15.
Skates or the like, Heelplate for. A. L. Staples. 1,455,276; May 15.
Slab, Building. F. Pontello. 1,455,657; May 15.
Sled. A. Skuplén. 1,455,032; May 15.
Slicing machine, Meat-. F. and N. L. Adam. 1,455,699; May 15.
Snap fastener. L. B. Harpe. 1,454,890; May 15.
Soap. F. C. Atkinson. 1,455,015; May 15.
Sole-channeling machine. F. E. Bertrand. 1,454,880; May 15.
Soles, Manufacturing. J. H. Rigby. 1,454,907; May 15.
Sound box. D. F. Snyder. 1,454,909; May 15.
Sound, Diaphragm adapted to receive and produce. E. M. C. Tigerstedt. 1,454,913; May 15.
Sound-reproducing machine, Electrically-driven. R. Mosmann. 1,455,262; May 15.
Sound-reproducing machines, Controlling mechanism for. T. H. Loy. 1,455,631; May 15.
Spark intensifier. I. J. Amato. 1,455,470; May 15.
Spark plug. S. P. Miller. 1,455,543; May 15.
Spark-plug cleaner. A. M. Seaver. 1,455,150; May 15.
Speed control. A. C. Roebuck. 1,455,093; May 15.
Spinning frames, Stop motion for. C. E. Pearce. 1,455,171; May 15.
Spinning machines, Thread-breaking device for. F. Q. Hartman. 1,455,529; May 15.
Spiral separator. F. Pardee. 1,454,904; May 15.
Spoons, knives, forks, or similar articles of tableware. J. Avvocato. Des. 62,356; May 15.
Spring bumper. E. G. Dann. 1,455,082; May 15.
Square, Protracting. M. Brown. 1,455,708; May 15.
Stamp-inking pad. W. Bell. 1,455,472; May 15.
Starch and sulphuric acid, Preparation of. J. A. Lloyd 1,455,630; May 15.
Starch composition, Preparation of sulphuric acid. W. H. Stokes. 1,455,679; May 15.
Stay-bolt construction, Flexible. R. S. Mepnie. 1,455,645; May 15.
Steam trap, Automatic. G. W. Collin. 1,455,021; May 15.
Steering gear for steamships. J. T. Shaw, C. A. Weymouth, and B. H. Pearson. 1,455,151; May 15.
Still. J. M. Mahoney. 1,455,642; May 15.
Stock-cutting machine. S. E. Winkley. 1,454,877; May 15.
Stoker, Locomotive. N. M. Lower. 1,455,058; May 15.
Stokers, Feed gate for automatic. E. L. Brown, jr. 1,455,041; May 15.
Stone-cutting wheel. E. A. Chase. 1,455,477; May 15
Stop and turn signal. Y. Honda. 1,455,001; May 15.
Store display room. J. M. England. 1,455,114; May 15.
Stove, Cooking. J. D. Jackson. 1,455,292; May 15.
Stove-door frame and hinge therefor. F. G. Nicolaus and J. Roy. 1,455,732; May 15.
Stovepipe-reducing joint. M. Ludwig. 1,455,027; May 15.
Stoves and furnaces, Grate attachment for. R. O. Durst. 1,455,721; May 15.
Stoves, Substructure for. W. W. Holloway and H. Kielberg. 1,455,053; May 15.
Stoves, Wick for oil. C. King. 1,455,212; May 15.
Straps, Machine for forming lug. C. H. Peirson and W. A. Bohue. 1,455,654; May 15.
Stream-flow-controlling instrumentality. V. Hajek. 1,455,586; May 15.
Street indicator. W. A. and S. Wilson. 1,455,467; May 15.
Stripe of material, Forming folded. A. M. Barrett. 1,455,061; May 15.
Sulphur, Burning. H. S. Davis. 1,455,284; May 15.
Sweater. L. Strauss. Des. 62,354; May 15.
Sweeper, Street. L. B. Donkers. 1,454,884; May 15.
Switch. F. Hornby. 1,454,970; May 15.
Switch. G. C. Werner. 1,455,763; May 15.
Switch-throwing mechanism. G. Stille. 1,455,678; May 15.
Syringe. W. A. Pervier. 1,455,507; May 15.
Syringe, Hypodermic. L. L. Goold. 1,455,047; May 15.
Table: *See*—
  Code table. Folding table.
  Extension table. Serving table.
Table. J. B. O'Neal, jr. 1,454,903; May 15.
Table adapted to be used as cookery cabinet. E. Patey. 1,455,506; May 15.
Talking machines, Automatic starting and stopping attachment for disk-type. W. L. Cowen and C. A. Friend. 1,455,478; May 15.
Tanks, Metal cover for. W. W. Ford. 1,455,582; May 15.
Tanning hides, Process of and means for. V. Peradotto. 1,455,655; May 15.
Telephone-call register. B. Sapienza. 1,455,268; May 15.
Telephone indicator. W. H. Eastman. 1,455,285; May 15.
Tent. J. J. Munson. 1,455,089; May 15.
Terminal, Connection or binding. R. Zöllner. 1,454,879; May 15.
Textile fabric. E. Ericson and R. Weiss. Des. 62,361; May 15.
Textile fabric. P. Reimann. Des. 62,387; May 15.
Textiles, Machinery for dyeing and treating. F. F. Larivé. 1,454,897; May 15.
Thermostat. F. W. and G. A. Robertshaw. 1,455,663; May 15.
Ticket, Railway fare. C. W. Heath. 1,455,050; May 15.
Tile, Apparatus for the manufacture of hollow. W. L. Hanley, jr. 1,455,249; May 15.
Tile for covering walls, Glass. M. Anspach. 1,454,842; May 15.
Timepieces, Indicator for. D. P. Gleason. 1,455,482; May 15.
Tire, Armored pneumatic. C. Scheuner. 1,455,412; May 15.
Tire, Automobile. E. L. Hodge. 1,455,615; May 15.
Tire, Automobile spring. J. R. Tucker and E. M. Ayers. 1,455,236; May 15.
Tire carrier, Auxiliary-. J. C. Manock. 1,455,118; May 15.
Tire core, Collapsible. H. A. Denmire. 1,454,995; May 15.
Tire for road vehicles, Solid elastic. J. F. Sipe. 1,455,361; May 15.
Tire manufacture. T. Midgley. 1,455,260; May 15.
Tire mold. R. M. Merriman. 1,455,218; May 15.
Tire valves, Dust cap for. C. B. Croson and J. W. Kindelberger. 1,455,080; May 15.
Tire valves, Signal device for. A. Nelson. 1,455,146; May 15.
Tires, Inner tube for automobile. W. E. Roberts. 1,455,734; May 15.
Tires, Securing means for spare. J. C. Manock. 1,455,119; May 15
Toaster. W. W. Dodge, jr. 1,455,190; May 15.
Tobacco-smoking pipe. W. P. McCoy. 1,455,539; May 15.
Toggle. C. S. Morrison. 1,455,596; May 15.
Tongs. S. B. Heppenstall. 1,455,613; May 15.
Tool, Combination. B. J. Biddle. 1,455,564; May 15.
Tools, Clamping mechanism for machine. W. H. Thorne. 1,455,556; May 15.
Toothbrush, Folding. G. E. W. Miller. 1,454,938; May 15.
Torch, Cutting and welding. T. A. Errett, W. P. Brown, and H. F. Brown. 1,454,996; May 15.
Towel cabinet G. A. Steiner. 1,454,910; May 15.
Towing engine. T. S. Miller. 1,455,261; May 15.
Toy. G. J. Bolton. 1,455,473; May 15.
Toy, Parachute. C. L. Bunten. 1,455,073; May 15.
Toy rabbit. W. Pawley. Des. 62,353; May 15.
Toy vehicle. F. Mulveny. 1,455,404; May 15.
Trace support and assembly, Harness-. P. Bostrom. 1,455,705; May 15.
Track, Adjustable. H. C. Kolling and W. McGill. 1,455,293; May 15.
Tractor. G. W. Dunham. 1,455,394; May 15.
Tractor. F. Hodgkiss. 1,455,616; May 15.
Tractor. H. J. Stegeman. 1,455,455; May 15.
Tractor. E. E. Wickersham. 1,455,466; May 15.
Tractor attachment. F. T. Heuer and G. D. Latta. 1,455,614; May 15.
Tractors, Drawbar and power attachment for. N. O. John. 1,455,493; May 15.
Tractors, Rope-drum attachment for. H. I. Eaton and F. A. Reiley. 1,455,575; May 15.
Tractors, Safety device for. J. Cockrill. 1,454,957; May 15.
Train-order holder and hook. O. F. Kloetzer. 1,454,896; May 15.
Train stop and control mechanism, Automatic. H. F. Haller. 1,455,115; May 15.
Transcript rack, Stenographer's. J. W. Dandridge. 1,455,603; May 15.
Transmission channels, Means for ringing over multiplex. H. A. Affel. 1,454,840; May 15.
Transmission, Hydraulic. C. Kruse. 1,455,295; May 15.
Transmission mechanism. L. H. Keim. 1,454,930; May 15.
Trap: *See*—
  Animal trap. Rat trap.
  Insect trap. Steam trap.
  Lobster trap.
Trap. W. F. Butler. 1,455,106; May 15.
Trap. W. J. Turner. 1,454,988; May 15.

Trimmer: *See*—
  Lumber trimmer.
Trolley collector. P. T. J. Estler. 1,455,578; May 15.
Truck-body hoist. F. G. Gies. 1,454,966; May 15.
Truck, Molder's. A. Nelson. 1,455,090; May 15.
Trucks, Hydraulic hoist for. A. E. Hansen. 1,455,528; May 15.
Trunks, Drawer-locking device for. J. P. Gibson. 1,455,198; May 15.
Tube: *See*—
  Inner tube.
Tube-forming machine, Lock-seam. R. Ososke. 1,455,652; May 15.
Tubes, Manufacturing inner. R. E. Stephenson. 1,455,364; May 15.
Tubes, Process and device for producing hollow blocks for manufacturing seamless. T. Becker. 1,455,703; May 15.
Turbine. C. W. Dake. 1,455,022; May 15.
Turnbutton fastener. D. Bourque. 1,455,758; May 15.
Typewriter. L. R. Roberts. 1,455,030–1; May 15.
Typewriter and operating same. C. F. Cook. 1,455,079; May 15.
Typewriting machine. J. H. Barr. 1,455,519; May 15.
Typewriting machine. M. C. Crawley. 1,455,112; May 15.
Typewriting machine. E. B. Hess. 1,455,201; May 15.
Typewriting machine. A. G. F. Kurowski. 1,455,496–7; May 15.
Typewriting machine. J. A. B. Smith. 1,455,454; May 15.
Typewriting and computing machine, Combined. H. H. Vickers. 1,455,280; May 15.
Umbrella, Collapsible. O. W. F. Posselt. 1,455,410; May 15.
Umbrella, Folding. R. H. Davis. 1,455,605; May 15.
Underreamer. H. E. Brown. 1,454,843; May 15.
Vacuum cleaning apparatus. F. E. Lumley. 1,455,116; May 15.
Valve, Automatic. W. H. Schmidt. 1,455,670; May 15.
Valve, Expansion. E. R. De Luiz. 1,455,430; May 15.
Valve for explosive engines. K. E. Keller. 1,455,055; May 15.
Valve for expanding machines, Automatic hydraulic control. A. J. Bates. 1,455,062; May 15.
Valve-grinding machine. J. P. Simmons. 1,455,176; May 15.
Valve mechanism, Thermostatic. F. W. and G. A. Robertshaw. 1,455,662; May 15.
Valve, Pneumatic. H. P. Kraft. 1,454,854; May 15.
Valve reseater. A. W. Noyes. 1,455,649; May 15.
Valve-seating tool. G. J. S. Collins. 1,455,388; May 15.
Valve tester. S. M. Coffman. 1,455,077; May 15.
Vamp-trimming machine. M. E. Shackley. 1,454,908; May 15.
Vane, Magnetizable meter. T. D. Yensen. 1,454,878; May 15.
Vanity box, Combination. S. Morrison. 1,455,647; May 15.
Vanity case. C. E. Dodson. 1,455,432; May 15.
Vapors and gases, Electrically-operating treating chamber for hydrocarbon. J. L. McCabe. 1,455,088; May 15.
Vapors from gases, Portable apparatus for the extraction of. G. G. Oberfell and G. A. Burrell. 1,455,407; May 15.
Vehicle. J. Swinland. 1,455,124; May 15.
Vehicle, Convertible. F. Rist. 1,454,861; May 15.
Vehicle, Motor. A. Moorhouse. 1,455,160; May 15.
Vehicle signaling device. W. J. Begley. 1,455,064; May 15.
Vehicle washer. E. Muller. 1,455,349; May 15.
Vehicles, Brake-operating mechanism for. J. Johnson. 1,455,619; May 15.
Vehicles, Cushion wheel for motor. B. L. Smith. 1,455,453; May 15.
Vehicles, Direction indicator for. R. Franco and G. Ester. 1,455,331; May 15.
Vehicles, Direction indicator for motor. S. H. Boltnott. 1,455,422; May 15.
Vehicles, Dirigible light for motor. S. E. Orr. 1,454,981; May 15.
Vehicles, Gear selecting and shifting device for motor. J. Blackburn. 1,455,162; May 15.
Vehicles, Manual signal for. J. Spaventoy. 1,455,231; May 15.
Vehicles, Means for controlling the rebound of springs of. R. Pope. 1,455,305; May 15.
Vehicles, motor boats, and aircraft, Friction driving gear for motor. R. Blakoe. 1,455,704; May 15.
Vehicles, Power propulsion of road. W. H. Dunkley. 1,455,720; May 15.
Vending machine. S. G. Thomas and R. E. Kight. 1,455,154; May 15.
Vending machine, Liquid-. F. C. Bates. 1,455,742; May 15.
Ventilated seat, Portable. H. P. Childress. 1,455,239; May 15.
Vessels, Mechanism for propelling. E. G. Dary and A. P. Clute. 1,455,716; May 15.
Vial bottoming machine. R. Koenig. 1,455,056; May 15.
Vibrator, Therapeutic. P. W. Hoffmann. 1,455,291; May 15.
Vise. H. R. Bothwell. 1,454,993; May 15.
Wagon, Dump. R. T. Dailey. 1,455,714; May 15.
Walking motion, propelling apparatus. V. G. Anderson. 1,455,380; May 15.
Washer: *See*—
  Vehicle washer.
Washing machine. O. Allen, jr. 1,455,378; May 15.
Washing machine. W. C. F. Dietz. 1,455,719; May 15.
Washline reel. G. J. Leber. 1,455,343; May 15.
Water from colloidally-dissolved substances such as crude peat, coal sludge, and the like, Removal of. H. Horst. 1,455,728; May 15.
Water-level controller, Boiler-. J. F. Kelly. 1,455,211; May 15.
Water, Purifying. A. C. Spencer. 1,455,363; May 15.
Water-tube boiler. D. E. G. Clarke. 1,455,521; May 15.
Water-tube boiler. F. C. Stimmel. 1,455,597; May 15.
Weed extractor. W. C. Moors. 1,455,144; May 15.
Weighing and sack-filling machine, Automatic grain-. T. M. Poumade. 1,455,658; May 15.
Weight adjustment, Feed-. H. W. Govin. 1,454,852; May 15.
Weight-equalization device. G. H. F. Holy. 1,454,026; May 15.
Well boring, Rotary table for. J. D. Loyd. 1,455,142; May 15.
Well-drilling apparatus. V. A. Stewart. 1,454,984; May 15.
Well fishing tool. C. E. Lang. 1,455,499; May 15.
Well fishing tool, Oil-. F. C. Bonnet and R. Franklin. 1,455,237; May 15.
Well reamer. F. Sager and H. R. Hardenburg. 1,454,863; May 15.
Wells, Drilling. J. C. Swan. 1,455,010; May 10.
Wheel: *See*—
  Disk wheel. Resilient wheel.
  Elastic wheel. Stone-cutting wheel
  Excavating wheel.
Wheel. C. J. McCord. 1,455,637; May 15.
Wheel cover, Burnishing-. H. A. Mabbey. 1,455,298; May 15.
Winder-balancing mechanism. H. L. Young. 1,455,185; May 15.
Window chute. J. M. Triggs. 1,455,511; May 15.
Window-cleaning device. J. J. Hiller and E. R. Strenger. 1,455,398; May 15.
Window frame. H. G. Kellogg. 1,455,340; May 15.
Window-operating device. L. Welker, jr. 1,455,464; May 15.
Wireless receiving system. J. Siepian. 1,455,767–8; May 15.
Wreck-retrieving device. H. J. Schmitt. 1,455,122; May 15.
Wrench. C. P. Brown. 1,455,423; May 15.
Wrench and the like. W. J. O'Neill. 1,455,147; May 15.
Wringers, Safety device for motor-driven. F. Schau. 1,455,450; May 15.
Writing adding machines, Cross-footer register for. H. A. Foothorap. 1,455,196; May 15.
Writing and drawing surface. D. Evans. 1,455,579; May 15.

CLASSIFICATION OF PATENTS

ISSUED MAY 15, 1923.

NOTE.—First number—class, second number—subclass, third number—patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Accurate Metal Weather Strip Company. (See Kammerer, Fred W.)

Adams, William C., doing business as Adams Drug Company, Panama City, Fla. Insecticide. 169,018; May 29.

Adjusto Shoe Lace Company, Incorporated, New York, N. Y., assignor to Anawan Braid Company, Providence, R. I. Corset and shoe lace tips. 168,670; May 29; Serial No. 152,303; published Jan. 9, 1923.

Alabama By-Products Corporation, Birmingham and Tarrant, Ala. Crude coal tar and coke. 168,562; May 29; Serial No. 166,626; published Jan. 9, 1923.

Aladdin Tire Corporation, Rutherford, N. J. Casings and tubes of pneumatic tires. 168,819; May 29; Serial No. 170,109; published Feb. 13, 1923.

Alexander, Henry W., jr., doing business as H. W. Alexander Co., Philadelphia, Pa. Mints. 168,565; May 29; Serial No. 166,802; published Mar. 6, 1923.

Alley, Charles G., doing business as Alley Medicine Co., Birmingham, Ala. Laxative tablets. 168,694; May 29; Serial No. 169,796; published Feb. 13, 1923.

Alphen, Inc., New York, N. Y. Hats, caps, shoes, hose, belts, etc. 168,679; May 29; Serial No. 169,233; published Jan. 9, 1923.

American Boron Products Co., Inc., Reading, Pa. Babbitt metal. 168,649; May 29; Serial No. 165,742; published Feb. 20, 1923.

American Cotton Oil Company, The, Union Township, near Guttenberg, N. J., and New York, N. Y. Vegetable oil for salad and cooking. 168,644; May 29; Serial No. 165,575; published Feb. 20, 1923.

American Dishwashing Machine Company. (See Simpson, Tracy W.)

American Lead Pencil Company, New York, N. Y. Erasers, lead pencils, refill leads, rubber bands, and copying pencils. 168,708; May 29; Serial No. 154,425; published Mar. 13, 1923.

American Machine and Foundry Co., Brooklyn, N. Y. Cigar and cigarette machinery and parts thereof, sickle bars and sickle-bar blades for agricultural machines, etc. 168,740; May 29; Serial No. 171,197; published Feb. 27, 1923.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. 168,701; May 29; Serial No. 166,547; published Mar. 13, 1923.

American Nickel Corporation, Clearfield, Pa. Nickel sheets, rods, wire, etc. 168,968; May 29; Serial No. 170,802; published Mar. 6, 1923.

American Rack Company, Inc., Washington, D. C. Holders or cabinets for holding paper bags and dispensing them. 168,840; May 29; Serial No. 170,747; published Feb. 27, 1923.

American Range & Foundry Company, Minneapolis, Minn. Refrigerators. 168,857; May 29; Serial No. 173,549; published Mar. 6, 1923.

Amos-James Grocer Co., The, St. Louis, Mo. Coffee, canned vegetables, fruits, and fish, and evaporated milk. 168,877; May 29; Serial No. 169,997; published Mar. 13, 1923.

Anawan Braid Company. (See Adjusto Shoe Lace Company, assignor.)

Anderson, A. W., Corporation, New York, N. Y. Furniture—namely, wardrobes, chests, lockers, bureaus, drawers, and cabinets. 168,751; May 29; Serial No. 171,401; published Feb. 20, 1923.

Anthony, James A., Girard, Ala. Beverages sold as soft drinks. 169,021; May 29.

Arizona Gypsum Plaster Co., Douglas, Ariz. Ground and calcined plaster and gypsum tile. 169,013; May 29.

Arrowhead Trading Corporation, New York, N. Y. Razors. 168,892; May 29; Serial No. 169,471; published Mar. 6, 1923.

Atkins, Cora P., West Hartford, Conn. Parcel carrier. 168,709; May 29; Serial No. 155,584; published Feb. 20, 1923.

Atlantic Canning Co., Rehoboth Beach, Del. Canned tomato paste. 168,603; May 29; Serial No. 168,628; published Mar. 6, 1923.

Augstein, S., & Co., New York, N. Y. Sweater coats, jerseys, bathing suits, knitted scarfs, etc. 168,792; May 29; Serial No. 134,741; published Feb. 8, 1921.

Auld, Hampton, Newark, N. J. Preparation for mixing with printing ink to give body thereto. 169,015; May 29.

Automative Toy Kraft Company, Sacramento, Calif. Toy vehicles. 168,980; May 29.

Baker Paint & Varnish Co., Jersey City, N. J. Putty. 169,032; May 29.

Banning Canning Co., Banning, Calif. Canned fruits. 168,597; May 29; Serial No. 164,300; published Feb. 13, 1923.

Barber Asphalt Paving Company, The, Philadelphia, Pa. Paints. 168,635; May 29; Serial No. 168,850; published Feb. 27, 1923.

Barkann, Milton D., Jersey City, N. J. Burs. 168,741; May 29; Serial No. 171,198; published Feb. 27, 1923.

Basilea, C., & Co., New York, N. Y. Olive oil. 168,612; May 29; Serial No. 168,912; published Feb. 13, 1923.

Beardsley, Calvin L., doing business as Beardsley Specialty Co., Rock Island, Ill. Beverage sold as a soft drink and sirups used in the preparation of same. 168,941; May 29; Serial No. 172,858; published Mar. 13, 1923.

Beardsley Specialty Co. (See Beardsley, Calvin L.)

Beaver Paper Company, Chicago, Ill. Toilet paper. 168,815; May 29; Serial No. 170,050; published Nov. 14, 1922.

Becher, Jacob, Brooklyn, N. Y. Fur skins. 168,626; May 29; Serial No. 167,762; published Feb. 13, 1923.

Bedford Mills, Inc., New York, N. Y. Shadow-stripe cotton sateen in the piece. 168,852; May 29; Serial No. 174,059; published Mar. 6, 1923.

Behr, Herman, & Company, Incorporated, Brooklyn, N. Y. Abrasive papers and cloths. 168,942; May 29; Serial No. 172,824; published Feb. 27, 1923.

Bel-Jar Coffee Co., Inc., Miami, Fla. Coffee. 168,586; May 29; Serial No. 163,915; published Feb. 27, 1923.

Bellis Heat Treating Company, The, New Haven, Conn. Salts in solid form for metal heat-treating baths. 168,842; May 29; Serial No. 170,749; published Feb. 13, 1923.

Berkley, Frederick M., New York, N. Y. Printed advertising matter. 168,919; May 29; Serial No. 151,197; published Feb. 27, 1923.

Berkley, Frederick M., New York, N. Y. Printed matter. 168,918; May 29; Serial No. 151,198; published Feb. 27, 1923.

Bertrand, E. A., Taft, Calif. Title of a monthly publication in magazine form. 168,973; May 29; Serial No. 159,684; published Feb. 27, 1923.

Birdsey Somers Company, New York, N. Y. Corsets, waists, girdles, and corset combinations. 168,622; May 29; Serial No. 167,507; published Jan. 30, 1923.

Black-Iron Stove Polish Co., Lawrence, Mass. Stove and metal polishes. 168,962; May 29; Serial No. 171,298; published Mar. 13, 1923.

Black Diamond Paint and Varnish Works, Cincinnati, Ohio. Roof cement and ice-can cement. 169,011; May 29.

Black, William C., doing business as Herbolac Drug & Mfg. Co., Louisville, Ky. General medicinal tonics. 168,563; May 29; Serial No. 166,632; published Feb. 20, 1923.

Blechman, S., & Sons Inc., New York, N. Y. Fabric and leather gloves. 168,553; May 29; Serial No. 160,278; published Jan. 30, 1923.

Blu-Ribon Ice Cream Co. (See Cutrer, Bennie B.)

Blue Island Specialty Company, Blue Island, Ill. Dental and engine stones, and lathe wheels. 168,759; May 29; Serial No. 172,725; published Mar. 13, 1923.

Bockatege Furniture Co., Evansville, Ind. Household furniture. 169,014; May 29.

Bollerman, Albert, doing business as Ne-Ver-Rust Mfg. Co., Brooklyn, N. Y. Chemical compounds. 169,025; May 29.

Boston Molasses Company, Boston, Mass. Molasses. 168,543; May 29; Serial No. 158,212; published Feb. 27, 1923.

Bouvet, Simonne, New York, N. Y. Doll. 168,932; May 29; Serial No. 173,319; published Mar. 13, 1923.

Boyd, John S., Co. Inc., Williamstown, Mass., and New York, N. Y. Corduroys in the piece. 168,766; May 29; Serial No. 173,229; published Mar. 6, 1923.

Boynton Furnace Co., Jersey City, N. J., and New York, N. Y. Steam and water boilers and hot-air furnaces. 169,028; May 29.

Bradford Dyers' Association, Limited, The, Bradford, England. Ladies' costumes and skirts. 168,787; May 29; Serial No. 124,042; published Feb. 20, 1923.

Bradford Dyers' Association, Limited, Bradford, England. Mohair and cotton admixture piece goods. 168,783; May 29; Serial No. 122,512; published Feb. 27, 1923.

Bradford Dyers' Association, Limited, The, Bradford, England. Piece goods. 168,791; May 29; Serial No. 132,074; published Mar. 6, 1923.

Bradford Dyers' Association, Limited, Bradford, England. Wool and cotton admixture piece goods. 168,784; May 29; Serial No. 122,515; published Feb. 27, 1923.

Bradford Dyers' Association, Limited, Bradford, England. Wool and cotton admixture piece goods. 168,781–2; May 29; Serial Nos. 122,462–3; published Feb. 27, 1923.

Breitenbach, M. J., Company, New York, N. Y. Remedy for chlorosis, malnutrition, anæmia, etc. 168,593; May 29; Serial No. 164,580; published Feb. 13, 1923.

Brillo Manufacturing Company, Brooklyn, N. Y. Steel wool for cleaning and polishing purposes. 168,938; May 29; Serial No. 173,070; published Mar. 6, 1923.

Bronxonian Publishing Co. Inc., New York, N. Y. Newspaper periodical published weekly. 168,959; May 29; Serial No. 171,611; published Feb. 27, 1923.

Brown Company, Portland, Me. Paper products. 168,705; May 29; Serial No. 129,373; published Mar. 6, 1923.

Bucher & Gibbs Plow Company, The, Canton, Ohio. Plows, plowshares, moldboards, plowpoints, landsides, etc. 168,829; May 29; Serial No. 170,472; published Jan. 9, 1923.

Bucyrus Company, South Milwaukee, Wis. Power shovels, drag-line excavators, etc. 168,961; May 29; Serial No. 171,443; published Mar. 6, 1923.

Burke, Frank G., doing business as Manhattan Soap Company, New York, N. Y. Soaps. 168,954–5; May 29; Serial Nos. 171,684-5; published Mar. 6, 1923.

Calhoun, Robbins & Co., New York, N. Y. Hot water bottles, rubber gloves, thermometers, rubber sheets, etc. 168,729; May 29; Serial No. 172,210; published Feb. 13, 1923.

Calhoun, Robbins & Co., New York, N. Y. Writing paper, envelopes, pens, pencils, paper tags, etc. 168,863; May 29; Serial No. 172,206; published Mar. 6, 1923.

California Prune and Apricot Growers, Inc., assignor to California Prune & Apricot Growers Association, San Jose, Calif. Dried fruits. 168,564; May 29; Serial No. 166,650; published Feb. 27, 1923.

California Prune & Apricot Growers Association. (See California Prune and Apricot Growers, Inc., assignor.)

Canepa, John B., Company, The, Chicago, Ill. Noodles and cut and twisted alimentary paste products. 168,574; May 29; Serial No. 167,166; published Feb. 27, 1923.

Carley, Leonard R., Watertown, Conn. Lubricating, automobile, and machine oils and lubricating greases. 168,714; May 29; Serial No. 160,587; published Mar. 13, 1923.

Carnation Stock Farms, Seattle, Wash. Live cattle of stock farms. 168,862; May 29; Serial No. 172,795; published Mar. 13, 1923.

Carson Pirie Scott & Co., Chicago, Ill. Snap fasteners. 168,939; May 29; Serial No. 172,961; published Mar. 13, 1923.

Cathcart, Herbert J., New York, N. Y. Cotton, woolen, or silk piece goods. 168,677; May 29; Serial No. 143,983; published June 7, 1921.

Cavanaugh, William D., doing business as Velvet Oil Company, Reno and Oil City, Pa. Lubricating oils. 168,600; May 29; Serial No. 168,440; published Feb. 27, 1923.

Central Automobile Tire Company, Boston, Mass. Automobile tires. 169,031. May 29.

Central Chemical Company, The, Hagerstown, Md. Fertilizer. 168,753; May 29; Serial No. 171,526; published Mar. 13, 1923.

Charter Chocolate Company, Boston, Mass. Candy. 168,794; May 29; Serial No. 141,557; published Mar. 6, 1923.

Chemical Fuel Company of America, Inc., Louisville, Ky. Motor fuel oil. 168,660; May 29; Serial No. 155,550; published Feb. 27, 1923.

Chemical Fuel Company of America, Inc., Louisville, Ky. Fuel oils. 168,661; May 29; Serial No. 155,549; published Feb. 27, 1923.

Chemische Werke Aktiengesellschaft Postlerit-Werke, Gross-Zschachwitz, Germany. Engine packings and washers of asbestos, grease, caoutchouc, and graphite. 168,779; May 29; Serial No. 114,846; published Jan. 9, 1923.

Chemitex Products Company, The, Akron, Ohio. Window-shade cloth. 168,584; May 29; Serial No. 163,434; published May 6, 1923.

Chief Two Moon Herb Company, The, Waterbury, Conn. Bitter oil, a general constitutional tonic for internal use. 168,844; May 29; Serial No. 170,868; published Feb. 13, 1923.

Chocolate Beverages Corporation, New York, N. Y. Chocolate beverage and concentrate for making same sold as soft drinks. 168,945; May 29; Serial No. 172,514; published Mar. 13, 1923.

Cincinnati Planer Company, The, Cincinnati, Ohio. Planers. 168,841; May 29. Serial No. 170,752; published Feb. 27, 1923.

Clark, Perry O., Lodi, Calif. Fresh grapes. 168,587; May 29; Serial No. 164,101; published Feb. 20, 1923.

Cohen, Morris, doing business as Morico Manufacturing Company, New York, N. Y. Antiseptic and astringent powder. 168,832; May 29; Serial No. 170,519; published Feb. 13, 1923.

Colonial Novelty Co., Philadelphia, Pa. Nuts. 168,669; May 29; Serial No. 153,740; published Feb. 20, 1923.

Colton, Geo. S., Elastic Web Co., Easthampton, Mass. Elastic webs. 168,922. May 29; Serial No. 144,801; published Mar. 13, 1923.

Columbus Pile Remedy Company, The. (See Heed, Rudolph B.)

Conservatine Chemical Products Company. (See Rosenberg, Kate F.)

Continental Chemical Corporation, Watseka, Ill. Waxes and wax stains. 168,771; May 29; Serial No. 173,913; published Feb. 27, 1923.

Cooper, John H., Stouchsburg, Pa. Leaf tobacco and the products for smoking and chewing. 168,928; May 29; Serial No. 173,914; published Mar. 13, 1923.

Coretty, Emil, Freeport, N. Y. Hair tonic. 169,022; May 29.

Corning Ice & Bottling Works, Corning, Calif. Nonalcoholic, maltless beverage used as a soft drink. 168,931; May 29; Serial No. 173,624; published Mar. 13, 1923.

Couch, Ralph F., Washington, D. C. Section of a daily publication. 168,925; May 29; Serial No. 175,545; published Mar. 27, 1923.

Coudurier Fructus & Descher, Lyon, France, and New York, N. Y. Silk and silk and cotton velvets in the piece. 168,801; May 29; Serial No. 174,357; published Mar. 6, 1923.

Council on Foreign Relations, Inc., New York, N. Y. Quarterly review. 168,893; May 29. Serial No. 169,348; published Mar. 6, 1923.

Cox, Winfield F., Burgin, Ky. Brooms. 168,785; May 29; Serial No. 122,932; published Feb. 13, 1923.

Crawford McGregor & Canby Company, The, Dayton, Ohio. Golf clubs. 168,958; May 29; Serial No. 171,614; published Mar. 13, 1923.

Cron Company, The, Piqua, Ohio. Furniture. 168,899; May 27; Serial No. 167,041; published Feb. 27, 1923.

Crystal Candy Co., Winston-Salem, N. C. Candy. 168,579; May 29; Serial No. 162,872; published Feb. 20, 1923.

Cudahy Packing Company, The, doing business as Cudahy Soap Works, Chicago, Ill., and South Omaha, Nebr. Toilet soap. 168,896; May 29; Serial No. 168,146; published Feb. 27, 1923.

Cudahy Soap Works. (See Cudahy Packing Company, The.)

Curtis Publishing Company, The, Philadelphia, Pa. Agricultural journal issued weekly. 168,901; May 29; Serial No. 166,651; published Feb. 27, 1923.

Cutrer, Bennie B., doing business as Blu-Ribbon Ice Cream Co., Baton Rouge, La. Ice cream, sherbet, ices, and frozen dainties. 168,711; May 29; Serial No. 156,188; published Mar. 13, 1923.

Daintymaid Co., Somerville, Mass. Spiced India relish, piccalilli, Russian dressing, salad dressing, etc. 168,641; May 29; Serial No. 165,484; published Feb. 27, 1923.

Davies, Rose & Co., Ltd., Boston, Mass. Extracts and flavorings for food purposes. 168,601; May 29; Serial No. 168,456; published Mar. 6, 1923.

De Cabanas y Carbajal H., Jersey City, N. J., and New York, N. Y. Cigars. 168,631; May 29; Serial No. 168,112; published Feb. 13, 1923.

Deeks Motor Products, Incorporated, Pittston, Pa. Gasoline-purifying instrumentalities for explosion motors. 168,940; May 29; Serial No. 172,866; published May 6, 1923.

Defiance Manufacturing Company, New York, N. Y. Calendars. 168,978; May 29.

Derryvale Linen Co. Inc., New York, N. Y. Linen and cotton piece goods, etc. 168,869; May 29; Serial No. 171,261; published Mar. 13, 1923.

Derryvale Linen Co. Inc., New York, N. Y. Linen and cotton piece goods, etc. 168,743; May 29; Serial No. 171,260; published Mar. 6, 1923.

Derryvale Linen Co., Inc., New York, N. Y. Piece goods, etc. 168,744; May 29; Serial No. 171,262; published Mar. 6, 1923.

Derryvale Linen Co., Inc., New York, N. Y. Piece goods, etc. 168,745; May 29; Serial No. 171,264; published Mar. 6, 1923.

Derryvale Linen Co., Inc., New York, N. Y. Writing paper. 168,868; May 29; Serial No. 171,265; published Mar. 6, 1923.

Desmond, B. G., Manufacturing Corporation, New York, N. Y. Lubricating oils and lubricants. 168,846; May 29; Serial No. 173,074; published Mar. 27, 1923.

Diamond Calk and Horseshoe Co., Duluth, Minn. Horseshoe and horseshoe calks. 168,676; May 29; Serial No. 144,607; published Feb. 27, 1923.

Driffill, Emma G., doing business as Driffill & Norman, Oxnard, Calif. Orange marmalade. 168,651; May 29; Serial No. 165,784; published Feb. 13, 1923.

Dudley Paper Co., The, Lansing, Mich. Kraft paper for wrapping purposes. 168,856; May 29; Serial No. 173,594; published Mar. 6, 1923.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Boxes and containers comprising boxes and containers for cream, salve, jewels, talcum powder, etc. 168,825; May 29; Serial No. 170,237; published Mar. 13, 1923.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Brushes. 168,888; May 29; Serial No. 170,240; published Mar. 13, 1923.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Hair combs, shoehorns, buttonhooks, and pincushions. 168,889; May 29; Serial No. 170,238; published Mar. 13, 1923.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Toilet articles, comprising manicure implements. 168,824; May 29; Serial No. 170,236; published Feb. 13, 1923.

Dyx Hosiery Co., Cincinnati, Ohio. Hosiery. 168,639; May 29; Serial No. 165,021; published Feb. 13, 1923.

Eagle, J. H., & C. K., Inc., Shamokin, Pa., and New York, N. Y. Silk fabrics in the piece. 168,706; May 29; Serial No. 151,154; published Mar. 13, 1923.

Earl Fruit Company, Sacramento, Calif. Fresh cantaloupes. 168,637; May 29; Serial No. 168,403; published Mar. 6, 1923.

Eclipse Machine Company, Elmira Heights, N. Y. Drives and parts of drives for starters for engines. 169,006; May 29.

Edson Bros., Philadelphia, Pa. Tomato sauce. 168,880; May 29; Serial No. 169,239; published Mar. 6, 1923.

Edwards & Company, Inc., New York, N. Y. Radio receiving sets. 168,643; May 29; Serial No. 165,533; published Feb. 20, 1923.

Egoval Chemical Co. (See Voge, A. Law.)

Elmer & Amend, New York, N. Y. Antiseptic and healing ointment. 168,835; May 29; Serial No. 170,569; published Feb. 13, 1923.

Elastic Tip Co., The. (See Stetson, George A.)

Eldredge, Frank M., doing business as Gem Manufacturing Company, Detroit, Mich. Electric ranges. 168,721; May 29; Serial No. 171,788; published Feb. 13, 1923.

Elkhart Rubber Works, Elkhart, Ind. Insulating tape. 168,996; May 29.

Ellsworth & Thayer Mfg. Co., Milwaukee, Wis. Gloves and mittens. 169,030; May 29.

Endicott Johnson Corporation, Endicott, N. Y. Leather. 168,572; May 29; Serial No. 167,078; published Feb. 13, 1923.

Entwisle, Sadie I., New York, N. Y. Fabric gloves, hosiery, and knitted underwear. 168,605; May 29; Serial No. 168,673; published Feb. 13, 1923.

Eskay Products Company, Baltimore, Md. Mayonnaise dressing for foodstuffs. 168,576; May 29; Serial No. 167,230; published Mar. 6, 1923.

Essandee Corporation, Los Angeles, Calif. Automobile accessories. 168,665; May 29; Serial No. 154,586; published Feb. 20, 1923.

Fabbrica Automobili e Velocipedi Edoardo Bianchia, Milan, Italy. Bicycles and motor cycles. 168,610; May 29; Serial No. 168,877; published Jan. 30, 1923.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Pencils. 168,855; May 29; Serial No. 173,760; published Mar. 6, 1923.

Fair, Willian B., Habana, Cuba, and New York, N. Y. Evaporated milk and cream. 168,567–8; May 29; Serial Nos. 166,881–2; published Feb. 27, 1923.

Fairfield Manufacturing Co., Inc., Providence, R. I. Pocketknives. 168,989; May 29.

Fales Folio Company, Foxboro, Mass. Binders in the nature of bookbinders for photograph cards and other loose leaves. 168,881; May 29; Serial No. 168,211; published Mar. 13, 1923.

Falls City Mills Co., Louisville, Ky. Hosiery. 168,554; May 29; Serial No. 160,492; published Dec. 12, 1922.

Farrington, G. B., Co., The, New York, N. Y. Coffee. 168,828; May 29; Serial No. 170,479; published Mar. 13, 1923.

Federal Motor Truck Company, Detroit, Mich. Automobile trucks. 168,613; May 29; Serial No. 168,924; published Feb. 20, 1923.

Fiat, Turin, Italy. Machines and materials for mine working. 168,920; May 29; Serial No. 150,742; published Mar. 6, 1923.

Finn, J. A., & Co., New York, N. Y. Silk pongee. 168,539; May 29; Serial No. 157,561; published Feb. 27, 1923.

Fluid Chemical Company, Newark, N. J. Washing fluid. 168,865; May 29; Serial No. 166,794; published Mar. 6, 1923.

Flynn Dairy Company, Des Moines, Iowa. Chocolate-coated ice cream. 168,540; May 29; Serial No. 157,763; published May 23, 1922.

Forbes Publishing Co., Omaha, Nebr. Blank record books. 168,557; May 29; Serial No. 161,982; published Feb. 20, 1923.

Forney & Co., Inc., New York, N. Y. Diapering in the piece. 168,719; May 29; Serial No. 171,753; published Mar. 6, 1923.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 168,772; May 29; Serial No. 173,962; published Mar. 6, 1923.

Fort Dearborn Engraving Co., Chicago, Ill. Statements, checks, billheads, purchase orders, etc. 168,698; May 29; Serial No. 166,943; published Mar. 6, 1923.

Fort Orange Chemical Company. (See Popp, William J.)

French Fibre Co., Inc., The, New York, N. Y. Electric-lamp stands and bases. 168,549; May 29; Serial No. 159,748; published Feb. 20, 1923.

Friedman-Kerr Co., The, Chicago, Ill. Candy. 168,606; May 29; Serial No. 168,714; published Feb. 13, 1923.

Fuerth, Gustave J., & Co., New York, N. Y. Furs, skins, and peltries. 168,654; May 29; Serial No. 165,864; published Jan. 2, 1923.

Gelpi, Paul, & Sons, Inc., New Orleans, La. Chocolates and candies. 168,874; May 29; Serial No. 170,135; published Mar. 13, 1923.

Gem Manufacturing Company. (See Eldredge, Frank M.)

Gillinder & Sons, Inc., Philadelphia, Pa. Illuminating glassware, such as lamp shades, globes, bowls, etc. 168,776; May 29; Serial No. 174,133; published Mar. 6, 1923.

Glimore Petroleum Company, Los Angeles, Calif. Lubricating oils. 168,767–8; May 29; Serial Nos. 173,764–5; published Feb. 27, 1923.

Glucol Mfg. Co., The, Cleveland, Ohio. Pastes, glues, and adhesives. 168,730; May 29; Serial No. 172,271; published Mar. 13, 1923.

Golden Ray Manufacturing Co., Philadelphia, Pa. Hair tonics. 168,843; May 29; Serial No. 170,816; published Feb. 13, 1923.

Golding Fabrics Corporation, New York, N. Y. Silk piece goods. 168,870; May 29; Serial No. 170,647; published Mar. 13, 1923.

Goldstein, Sam, doing business as Rex Cap Company, Chicago, Ill. Caps and soft hats. 168,656; May 29; Serial No. 166,449; published Feb. 20, 1923.

Grace Chocolate Company, Baltimore, Md. Candy. 168,678; May 29; Serial No. 169,207; published Mar. 6, 1923.

Gradisar, Frank, Ely, Minn. Palliative for rheumatism, itchings, skin diseases, etc. 168,820; May 29; Serial No. 170,134; published Feb. 20, 1923.

Granite Cordage Company, Granite Falls, and Hickory, N. C. Cords, twines, ropes, and lines of fiber material. 168,838; May 29; Serial No. 170,682; published Feb. 13, 1923.

Greenfeld's E., Sons, New York and Brooklyn, N. Y. Chocolate candies. 168,871; May 29; Serial No. 170,382; published Mar. 13, 1923.

Greenfeld's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 168,826; May 29; Serial No. 170,386; published Mar. 13, 1923.

Greenfeld's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 168,872; May 29; Serial No. 170,378; published Mar. 13, 1923.

Greenwald Packing Company, Baltimore, Md. Hams, bacon, lard, and sausage. 168,804; May 29; Serial No. 157,150; published Mar. 6, 1923.

Gregory, O. L., Vinegar Co., The, Paris, Tex. White distilled vinegar. 169,029; May 29.

Greist Mfg. Company, The, New Haven, Conn. Manual holder for razor blades. 168,917; May 29; Serial No. 152,748; published Mar. 6, 1923.

Griswold Manufacturing Company, The, Erie, Pa. Teakettle. 168,953; May 29; Serial No. 172,155; published Mar. 6, 1923.

Gross, Fred H., Wilkes-Barre, Pa. Shaving cream in the form of a soap paste used before shaving. 168,617; May 29; Serial No. 169,167; published Feb. 13, 1923.

Guild Products Corporation, Philadelphia, Pa. Card, T, and bank pins. 168,903; May 29; Serial No. 165,543; published Mar. 13, 1923.

Gurinian Candy Co., Chicago, Ill. Candy. 168,555; May 29; Serial No. 161,248; published Feb. 13, 1923.

Gurley Candy Company, Minneapolis, Minn. Candy—namely, bar goods. 168,582; May 29; Serial No. 163,268; published Feb. 13, 1923.

Haiku Fruit & Packing Co., Haiku, Maui, Hawaii. Canned pineapple. 168,680–1; May 29; Serial No. 169,241–2; published Feb. 27, 1923.

Haiku Fruit & Packing Co., Haiku, Maui, Hawaii. Canned pineapple. 168,682–3; May 29; Serial No. 169,244–5; published Feb. 27, 1923.

Hansen, Richard B., doing business as R. B. Hansen Rubber Co., Akron, Ohio. Rubber goods. 169,016; May 29.

Hardaway-Cargill Co., Columbus, Ohio. Table syrups. 168,566; May 29; Serial No. 166,830; published Feb. 20, 1923.

Harris Indirex Light. (See Harris, Ralph W.)

Harris, Ralph W., doing business as Harris Indirex Light, Cranford, N. J. Electric headlights for automobiles, motor cycles, street cars, locomotives, and electric fixtures. 168,627; May 29; Serial No. 167,773; published Feb. 13, 1923.

Harter, Leander D., Oklahoma, Okla. Artificial stone and composition for making same. 168,662; May 29; Serial No. 155,497; published May 16, 1922.

Hawkins Mortgage Co., Portland, Ind. Loan societies' bookkeeping record and correspondence blank forms. 168,883; May 29; Serial No. 167,396; published Mar. 13, 1923.

Hedberg, A. F., & Co. (See Hedberg, Ansheim F.)

Hedberg, Ansheim F., doing business as A. F. Hedberg & Co., Long Island City, N. Y. Preparation for cleaning fresco, oilcloth, enamels, varnishes, etc. 168,618; May 29; Serial No. 167,465; published Feb. 13, 1923.

Heed, Rudolph B., doing business as The Columbus Pile Remedy Company, Columbus, Ohio. Salve for the treatment of piles. 168,697; May 29; Serial No. 169,810; published Feb. 13, 1923.

Helmholz Mitten Company, Cudahy, Wis. Gloves and mittens of leather and fabric. 168,592; May 29; Serial No. 164,500; published Dec. 12, 1922.

Henriques Brothers Limited, Lisbon, Portugal. Sardines. 168,590; May 29; Serial No. 164,434; published Feb. 13, 1923.

Herbolac Drug & Mfg. Co. (See Black, William C.)

Herbrand Company, The, Fremont, Ohio. Wrenches, pliers, hammers, screw drivers, chisels. 168,970; May 29; Serial No. 170,649; published Mar. 6, 1923.

Hethcock, Edward E., Santa Ana, Calif. Medicinal preparation used as a physic. 168,822; May 29; Serial No. 170,191; published Feb. 20, 1923.

H. K. H. Silk Co., The, Watertown, Conn. Pure and artificial silk threads. 168,854; May 29; Serial No. 173,766; published Mar. 6, 1923.

Hollius, William, & Company, Limited, London and Mansfield, England. Cloth made of wool and cotton. 168,674; May 29; Serial No. 146,409; published Feb. 27, 1923.

Holt Manufacturing Company, The, Stockton, Calif. Tractors, traction engines, harvesters, etc. 168,937; May 29; Serial No. 173,234; published Mar. 6, 1923.

Horton Studios, Inc., Cleveland, Ohio. Toys and novelties. 168,805; May 29; Serial No. 157,034; published Feb. 20, 1923.

Hottel, Frank C., doing business as Vapolyptus Co., Portland, Oreg. Antiseptic oil. 168,646; May 29; Serial No. 165,682; published Feb. 20, 1923.

Houston Chronicle Publishing Company, The, Houston, Tex. Want-add directory, a daily publication forming a section of a newspaper. 168,890; May 29; Serial No. 169,676; published Feb. 27, 1923.

Hoyme, Christopher R., New York, N. Y. Bath robe which may be used also as a towel. 168,550–60; May 29; Serial Nos. 166,505–6; published Feb. 13, 1923.

Hubbs & Corning Company, Baltimore, Md. Paper bags. 168,726; May 29; Serial No. 171,845; published Feb. 27, 1923.

Hughes, William S., doing business as The Pre Ven Shun Laboratories, Kansas City, Mo. Prophylactic ointment. 168,845; May 29; Serial No. 170,885; published Feb. 13, 1923.

Hunt, Albert L., Peoria, Ill. Vehicle tires, inner tubes, tire covers, etc. 168,790; May 29; Serial No. 131,214; published June 20, 1922.

Hunter, H. B., Co. Inc., Norfolk, Va. Specially-prepared food preparations of chocolate, sugar, and water and cocoa, sugar, and water. 168,569; May 29; Serial No. 166,885; published Feb. 20, 1923.

Hyman & Oppenheim, New York, N. Y. Hair goods—namely, transformations and pompadours. 168,934–5; May 29; Serial Nos. 173,286–7; published Mar. 13, 1923.

Ideal Coated Paper Company, Brookfield, Mass. Gummed paper and cloth. 168,672; May 29; Serial No. 149,704; published Mar. 6, 1923.

Irwin Auger Bit Company, The, Wilmington, Ohio. Boxes for containing augers and bits. 168,723; May 29; Serial No. 171,802; published Feb. 27, 1923.

Irwin Auger Bit Company, The, Wilmington, Ohio. Roll cases for containing augers and bits. 168,722; May 29; Serial No. 171,800; published Feb. 27, 1923.

Ivanhoe Fruit Association, Klink, Calif. Fresh deciduous fruits. 168,879; May 29; Serial No. 169,304; published Mar. 6, 1923.

Jacobstein Bros., Inc., Rochester, N. Y. Cigars. 168,747; May 29; Serial No. 171,323; published Feb. 13, 1923.

Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. 168,773; May 29; Serial No. 173,966; published Mar. 6, 1923.

Johns-Manville Incorporated, New York, N. Y. Pipe covering, prepared asbestos roofing, asbestos paper, and millboard. 168,811; May 29; Serial No. 170,025; published Jan. 9, 1923.

Johnson, Aaron E., doing business as Aaron E. Johnson Jly. Mfg. Co., Minneapolis, Minn. Finger rings. 169,033; May 29.

Johnson, Leonard W., doing business as Ruggles & Ruggles, Batavia, Ill. Flue cleaners. 168,752; May 29; Serial No. 171,497; published Feb. 20, 1923.

Jones, W., & Co., London, England. Medicinal remedy for seasickness. 168,724. May 29; Serial No. 171,804; published Feb. 20, 1923.

Joy-Jel Company, St. Joseph, Mo. Dry powder used in making jellies, jams, marmalades, and sirups. 168,717; May 29; Serial No. 163,680; published Mar. 6, 1923.

Jung, M., New York, N. Y. Razors and clippers, scissors, and tools, and parts thereof. 168,652; May 29; Serial No. 165,794; published Feb. 27, 1923.

Kabushiki-Kaisha Namiki Seisakuju, Tokyo, Japan. Pens, penholders, fountain pens. 168,867; May 29; Serial No. 171,368; published Mar. 13, 1923.

Kain & Aunger Company, The, Cleveland, Ohio. Damper regulators. 168,987; May 29.

Kämmer & Reinhardt A. G., Waltershausen, Germany. Toys and playthings. 168,614; May 29; Serial No. 168,927; published Feb. 13, 1923.

Kammerer, Fred W., doing business as Accurate Metal Weather Strip Company, New York, N. Y. Metal weather strips. 169,010; May 29.

Karp, George, doing business as George Karp & Son, Long Island City, N. Y. Cigar and cigarette humidors. 168,763; May 29; Serial No. 173,088; published Feb. 27, 1923.

Karp, George, & Son. (See Kark, George.)

Kaufmann, Henry L., Boston, Mass. Hospital sundries. 168,796; May 29; Serial No. 142,345; published Dec. 19, 1922.

Kaynee Company, The, Cleveland, Ohio. Children's undergarments. 168,788; May 29; Serial No. 126,220; published Feb. 13, 1923.

K. C. B. Cannery, Inc., Seattle, Wash. Canned clams. 168,875; May 29; Serial No. 170,067; published Mar. 13, 1923.

Keck, Will G., Kecksburg, Pa. Beverage sold as soft drinks and sirups for making the same. 168,930; May 29; Serial No. 173,770; published Mar. 13, 1923.

Kemper, Chas. M., doing business as Radio Products Company, Westport, Conn. Radio telegraph and telephone apparatus and appliances. 168,806; May 29; Serial No. 169,909; published Feb. 20, 1923.

Kentucky Fluor Spar Co., Marion, Ky. Ground, lump, and gravel fluorspar. 168,754; May 29; Serial No. 171,541; published Feb. 13, 1923.

Kerr Chickeries Incorporated, The, Frenchtown, N. J. Live chicks. 168,596; May 29; Serial No. 164,763; published Feb. 27, 1923.

Kibbe Brothers Company, Springfield, Mass. Chocolates. 168,623–4; May 29; Serial Nos. 167,723–4; published Mar. 6, 1923.

Kiddie-Town Products, Inc., Seneca Falls, N. Y. Crib bed. 168,912; May 29; Serial No. 156,067; published Feb. 27, 1923.

Kids Nobby Klothes, Inc., New York, N. Y. Boys' suits and topcoats. 168,551; May 23; Serial No. 160,067; published Feb. 27, 1923.

Kings County Packing Co, Armona, Calif. Canned fruits and vegetables. 168,598; May 29; Serial No. 168,420; published Feb. 13, 1923.

King's Food Products Company, Portland, Oreg. Canned and dehydrated fruits and vegetables. 168,640; May 29; Serial No. 165,389; published Mar. 6, 1923.

Klauber Bros. & Co., New York, N. Y. Cotton piece goods. 168,850; May 29; Serial No. 174,246; published Mar. 6, 1923.

Knowles, J. C., Monticello, Calif. Fresh dicidnous fruit. 168,686; May 29; Serial No. 169,404; published Feb. 27, 1923.

K. Pulling Machine Company, San Francisco, Calif. Hand and power operated stump pullers and winches. 168,684; May 29; Serial No. 169,307; published Feb. 20, 1923.

Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. Fresh citrous fruits. 168,657; May 29; Serial No 166,304; published Feb. 20, 1923.

Kropacz, John, Drumheller, Alberta, Canada. Steam whistles. 168,580; May 29; Serial No. 162,934; published Feb. 20, 1923.

Kyle, Osborn H., Columbus, Ohio. Medicine for blood, rheumatism, lumbago, and the nerves. 168,570; May 29; Serial No. 166,888; published Feb. 20, 1923.

Lambert, Virginia C. B., doing business as Ozark Chemical Co., Arcadia, Mo. Nail emollient or polish. 168,831; May 29; Serial No 170,493; published Feb. 13, 1923.

Lamport Export Company, Inc., New York, N. Y. Linen, canvas, cotton, and sailcloth piece goods. 168,765; May 29; Serial No. 173,134; published Mar. 6, 1923.

Langbein, Wm., & Bros., New York, N. Y. Razors, knives, shears, and tools. 168,902; May 29; Serial No. 166,528; published Mar. 6, 1923.

Le Blume Import Co., Inc., New York, N. Y. Soap. 168,907; May 29; Serial No. 163,313; published Mar. 6, 1923.

Leonard, H. L., Rod Co., New York, N. Y. Split bamboo lengths. 168,732; May 29; Serial No. 172,337; published Feb. 13, 1923.

Lester Piano Company, Philadelphia, Pa. Pianos and player pianos. 169,001; May 29.

Lucille Felt Slipper Co., Inc., New York, N. Y. Slippers made wholly or in part of felt. 168,658; May 29; Serial No. 156,007; published Feb. 27, 1923.

Lukis Candy Company, Casper, Wyo. Candy. 168,546; May 29; Serial No. 158,683; published Mar. 6, 1923.

Magnus Hessberg, Inc., Richmond, Va. Leather. 168,575; May 29; Serial No. 167,174; published Feb. 13, 1923.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 168,760; May 29; Serial No. 172,754; published Mar. 6, 1923.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 168,761; May 29; Serial No. 172,756; published Feb. 13, 1923.

Malt-Diastase Company, New York, N. Y. Malt extracts. 168,921; May 29; Serial No. 148,156; published Mar. 13, 1923.

Manhattan Soap Company. (See Burke, Frank G.)

Manion, Catherine M., doing business as Manion Surgical Supply House, New York, N. Y. Obstetrical outfits and surgical supplies. 168,629; May 29; Serial No. 167,881; published Feb. 27, 1923.

Manion Surgical Supply House. (See Manion, Catherine M.)

Manatee Fruit Co., Palmetto, Fla. Fresh citrous fruits, fresh tomatoes, celery, lettuce, etc. 168,884; May 29; Serial No. 167,183; published Mar. 6, 1923.

Marret, Bonnin, Lebel et Guieu, Paris, France. Metals and alloys for use in jewelry and jewelers' wares. 168,886; May 29; Serial No. 170,301; published Mar. 13, 1923.

Marret, Bonnin, Lebel et Guieu, Paris, France. Alloys and metals for use in jewelry and jewelers' wares. 168,972; May 29; Serial No. 170,302; published Mar. 6, 1923.

Max Dörner G. m. b. H., Stahlwarenfabrik, Solingen, Germany. Razors, hair clippers, etc. 168,905; May 29; Serial No. 164,803; published Mar. 6, 1923.

Maxwell Paint Company, The, Philadelphia, Pa. Ready-mixed water paints. 168,733; May 29; Serial No. 172,338; published Mar. 13, 1923.

McClelland, Norman E., New York, N. Y. Liquid circulators. 168,628; May 29; Serial No. 167,825; published Feb. 27, 1923.

McCormick & Co. Incorporated, Baltimore, Md. Maltless flavors and flavoring extracts for use in making soft drinks. 168,556; May 29; Serial No. 161,786; published Feb. 13, 1923.

McLaurin-Jones Co., Brookfield, Mass. Coated book papers. 168,699; May 29; Serial No. 166,894; published Mar. 6, 1923.

Merck & Co., New York, N. Y. Insecticide. 168,836; May 29; Serial No. 170,590; published Feb. 13, 1923.

Merck & Co., New York, N. Y. Talcum powder. 168,809; May 29; Serial No. 169,980; published Feb. 13, 1923.

Metal Goods Manufacturing Co., Boston, Mass. Metal hot-water bottles and bed warmers. 168,731; May 29; Serial No. 172,280; published Mar. 13, 1923.

Metropolitan Radio Corporation, Newark, N. J. Electrical telephone receivers. 168,647; May 29; Serial No. 165,690; published Feb. 13, 1923.

Meyer, Raymond E., doing business as The Raymond E. Meyer Company, New York, N. Y. Soap. 169,034; May 29.

Mid West Paper & Envelope Co., Marion, Ind. Writing paper, correspondence envelopes, writing tablets, and papeteries. 168,634; May 29; Serial No. 168,326; published Mar. 6, 1923.

Mid-West Box Company, Chicago, Ill. Plaster base and sheathing. 168,607; May 29; Serial No. 168,777; published Jan. 9, 1923.

Miles Manufacturing Company, Los Angeles, Calif. Compound of sugar, gelatin, and fruit acid, artifically colored and flavored. 168,675; May 29; Serial No. 146,180; published Oct. 4, 1921.

Miller, Milton P., Fort Worth, Tex. Article of food composed of dough and sausage cooked in patties. 168,633; May 29; Serial No. 168,161; published May 6, 1923.

Mineral Soap Manufacturing Company, Lowell, Mass. Soaps, wool-scouring powder, etc. 168,914; May 29; Serial No. 155,764; published Mar. 6, 1923.

Mineral-Tone Company, Calhoun, Ga. Natural medicated mineral. 168,837; May 29; Serial No. 170,660; published Feb. 13, 1923.

Molinelli Italian Dinners, Inc., Brooklyn, N. Y. Spaghetti sauce and dressing. 168,999; May 29.

Monroe Cider Vinegar & Fruit Co., Rochester, N. Y. Fermented cider vinegar. 168,873; May 29; Serial No. 170,149; published Mar. 13, 1923.

Moon Laboratories. (See O'Connor, Edward J.)

Morana, Incorporated, doing business as Compagnie Morana, New York, N. Y. Odoriferous products for the production of soaps and perfumes. 168,833; May 29; Serial No. 170,533; published Feb. 13, 1923.

Morico Manufacturing Company. (See Cohen, Morris.)

Morrow, George W., San Francisco, Calif. Boat propellers. 169,019; May 29.

Moss & Lowenhaupt Cigar Co., St. Louis, Mo. Cigars, cheroots, cigarettes, smoking and chewing tobacco. 168,755; May 29; Serial No. 171,649; published Feb. 13, 1923.

Moss & Money, Spencer, Ind. Cough sirup. 169,023; May 29.

Mound City Paint & Color Company, St. Louis, Mo. Paints, paint enamels, paint oils. 168,866; May 29; Serial No. 172,170; published Mar. 13, 1923.

Mt. Ida Packing Company, Oroville, Calif. Canned olives. 168,703; May 29; Serial No. 165,086; published Mar. 6, 1923.

Mutual Refining Company, Los Angeles, Calif. Gasoline. 168,827; May 29; Serial No. 170,446; published Feb. 13, 1923.

Nack, Anthony W., Washington, D. C. Leather and fabric gloves, hosiery, and textile knitted underwear for children. 168,594; May 29; Serial No. 164,661; published Feb. 13, 1923.

Nash Coffee Company, Minneapolis, Minn. Peanut butter. 169,026; May 29.

National Association of Hosiery and Underwear Manufacturers, New York, N. Y. Weekly periodical. 168,966; May 29; Serial No. 171,031; published Feb. 27, 1923.

National Dairy Company, The, Toledo, Ohio. Evaporated milk. 168,797; May 29; Serial No. 142,994; published Mar. 6, 1923.

Nelson, James, Ltd., Nelson, England. Binding, braids, galloons, tape, trimmings, boot and corset laces. 168,916; May 29; Serial No. 154,321; published Mar. 6, 1923.

Nesbitt, John J., Atlantic City, N. J. Air heating, moistening, and ventilating device. 168,990; May 29.

Ne-Ver-Rust Mfg. Co. (See Bollerman, Albert.)

New England Spun Silk Corporation, Boston and Newton Upper Falls, Mass., and New York, N. Y. Yarns spun of silk, artificial silk, and mixtures thereof. 168,774–5; May 29; Serial Nos. 173,976–7; published Mar. 6, 1923.

Newhall Chain Forge & Iron Co., New York, N. Y. Non-skid chains, hooks, and parts thereof. 168,908; May 29; Serial No. 160,897; published Mar. 6, 1923.

Newhall, H. M., & Co., San Francisco, Calif. Canned fruits and vegetables. 168,691; May 29; Serial No. 169,770; published Feb. 27, 1923.

Newmark Brothers, Los Angeles, Calif. Coffee. 168,541; May 29; Serial No. 158,137; published Mar. 6, 1923.

New York Merchandise Company, New York, N. Y. Sanitary napkins. 168,800; May 29; Serial No. 174,795; published Mar. 13, 1923.

Nicholson, Harry R., doing business as H. R. Nicholson Company, Baltimore, Md. Automobile soap. 168,933; May 29; Serial No. 173,292; published Mar. 13, 1923.

Nippon Match M'f'g Co., L'd, Kobe, Japan. Matches. 168,545; May 29; Serial No. 158,488; published Mar. 6, 1923.

Nissley Creamery Company, Fort Worth, Tex. Ice cream. 168,548; May 29; Serial No. 158,995; published Mar. 6, 1923.

Noblesville Milling Co., Noblesville, Ind. Self-rising flour. 168,897; May 29; Serial No. 167,731; published Jan. 30, 1923.

Northern Jobbing Company, Chicago, Ill. Soap. 168,900; May 29; Serial No. 166,900; published Feb. 27, 1923.

Nubright Company, Concord, Calif. Washing powder. 168,738; May 29; Serial No. 170,893; published Feb. 13, 1923.

Nutwood Vineyard. (See Wood, H. W.)

O'Connell, Louis M., doing business as L. M. O'Connell & Co., Boston, Mass. Hair curlers, wavers, crimpers, and puffs. 168,927; May 29; Serial No. 174,098; published Mar. 13, 1923.

O'Connell, L. M., & Co. (See O'Connell, Louis M.)

O'Connor, Edward J., doing business as Moon Laboratories, St. Louis, Mo. Pharmaceutical preparation for the prevention and correction of vaginitis, leucorrhea, etc. 168,739; May 29; Serial No. 170,948; published Feb. 13, 1923.

O. K. Patch Company, Bellville, Tex. Patch for tires. 168,544; May 29; Serial No. 158,579; published Nov. 14, 1922.

Olympia Canning Company, Olympia, Wash. Canned fruits. 168,615; May 29; Serial No. 169,082; published Mar. 6, 1923.

Oyler, Chas. C., & Son, Cincinnati, Ohio. Fresh citrous fruits. 168,878; May 29; Serial No. 169,863; published Mar. 13, 1923.

Ozark Chemical Co. (See Lambert, Virginia C. B.)

Pacific Mills, Lawrence and Boston, Mass. Twill cotton draperies. 168,986; May 29.

Palmer Candy Co., Sioux City, Iowa. Candy. 168,821; May 29; Serial No. 170,152; published Mar. 13, 1923.

Palmer, P. S., Company, The, Bridgeport, Conn. Device for uniformly mixing the charge before exploding it in internal-combustion engines. 168,720; May 29; Serial No. 171,764; published Feb. 27, 1923.

P. & M. Company, The, Chicago, Ill. Rail anchors or anticreepers. 169,002–3; May 29.

Paralite Company, The, Cleveland, Ohio. Aluminum alloy. 168,552; May 29; Serial No. 160,150; published Feb. 20, 1923.

Parfumerie Lubin. (See Prot, Paul, & Cie.)

Paris Upholstering Co., Chicago, Ill. Parlor chairs and sofas. 168,969; May 29; Serial No. 170,691; published Feb. 27, 1923.

Paris Toilet Company, The, Paris, Tenn. Toilet preparations. 168,789; May 29; Serial No. 130,056; published Dec. 28, 1920.

Parke, Davis & Company, Detroit, Mich. Laxatives and cathartics. 168,830; May 29; Serial No. 170,503; published Feb. 13, 1923.

Patterson Screen Co., The, Towanda, Pa. X-ray screens, 168,997–8; May 29.

Peerless Belting Company, Gardenville, N. Y. Leather and cotton belting. 168,982; May 29.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Cotton piece goods. 168,735; May 29; Serial No. 172,556; published Feb. 27, 1923.

Pennsylvania Coal & Coke Corporation, Philadelphia, Pa., and New York, N. Y. Coal and coke. 168,748; May 29; Serial No. 171,384; published Feb. 13, 1923.

Pennsylvania Coal & Coke Corporation, Philadelphia, Pa., and New York, N. Y. Coal and coke. 168,749; May 29; Serial No. 171,386; published Feb. 13, 1923.

Pennsylvania Baking Company, Scranton, Pa. Crackers or biscuits. 168,924; May 29; Serial No. 123,139; published Oct. 5, 1920.

Pliable Arch Support Company, Indianapolis, Ind. Arch supports. 168,585; May 29; Serial No. 163,471; published Feb. 13, 1923.

Plymouth Gypsum Co., The, Fort Dodge, Iowa. Plaster. 168,666; May 29; Serial No. 153,618; published Dec. 26, 1922.

Plymouth Gypsum Co., The, Fort Dodge, Iowa. Plaster. 168,667; May 29; Serial No. 153,617; published Jan. 9, 1923.

Poland Paper Company, Mechanic Falls, Me. Paper used for printing, writing, bookkeeping, and typewriting, and mailing envelopes. 168,851; May 29; Serial No. 174,099; published Mar. 6, 1923.

Popp, William J., doing business as Fort Orange Chemical Company, Albany, N. Y. Hand soap. 168,599; May 29; Serial No. 168,430; published Feb. 13, 1923.

Poppert, Henry A., & Son Company, Milwaukee, Wis. Steam-pressure cooker. 168,944; May 29; Serial No. 172,686; published Mar. 6, 1923.

Premier Cutlery, Inc., New York, N. Y. Certain kinds of cutlery of base metal. 168,713; May 29; Serial No. 159,050; published Mar. 13, 1923.

Prestig, Frank, doing business as The White Rose Ice Cream and Frozen Custard Biscuit Company, New Orleans, La. Ice cream and frozen-custard biscuit. 168,558; May 29; Serial No. 166,468; published Feb. 27, 1923.

Pre Ven Shun Laboratories, The. (See Hughes, William S.)
Price Flavoring Extract Company, Chicago, Ill. Spices. 168,605–6; May 29; Serial Nos. 169,865–6; published Mar. 13, 1923.
Price, Oscar, New York, N. Y. Ginger ale. 168,981; May 29.
Prot, Paul & Cie, doing business as Parfumerie Lubin, Paris, France. Perfumes, toilet waters, face and talcum powder, face lotion, etc. 168,816; May 29; Serial No. 170,083; published Feb. 13, 1923.
Pun, Jack M., Wood's Ranch, near Stockton, Calif. Live or dressed pigeons, squabs, or poultry. 168,595; May 29; Serial No. 164,720; published Feb. 13, 1923.
Purity Packing Company, Chicago, Ill. Sausages composed of meat products, meat, water, and cereal. 168,688; May 29; Serial No. 169,560; published Feb. 27, 1923.
Queen Anne Candy Company, Chicago, Ill. Candy and coconut-bar candy. 168,589; May 29; Serial No. 164,192; published Feb. 20, 1923.
Quicksafe Manufacturing Company, Nashville, Tenn. Can openers. 168,644; May 29; Serial No. 155,320; published Feb. 20, 1923.
Quixy Polish Co. (See Schoener, Stephen.)
Radio Products Company. (See Kemper, Chas. M.)
Randolph Marketing Company, Los Angeles, Calif. Fresh citrous fruit and fresh deciduous fruit, fresh vegetables, and cantaloupes. 168,581; May 29; Serial No. 162,953; published Feb. 20, 1923.
Reardon Company, The, St. Louis, Mo. Calcimine. 168,802; May 29; Serial No. 174,214; published Feb. 27, 1923.
Reel, Marian, Canaan, Conn. Stove polish. 168,894; May 29; Serial No. 168,789; published Feb. 27, 1923.
Refinishing Products Co. (See Whitman, Edmund B.)
Reflector & Illuminating Co., Chicago, Ill. Color screen and holder attachment for reflectors. 168,995; May 29.
Reliance Coal Company, Chicago, Ill. Coal. 168,979; May 29.
Remmers Soap Company, The, Cincinnati, Ohio. Soap. 168,960; May 29; Serial No. 171,589; published Mar. 6, 1923.
Rex Cap Company. (See Goldstein, Sam.)
Reynolds & Reynolds Co., The, Dayton, Ohio. Writing tablets. 168,853; May 29; Serial No. 173,855; published Mar. 6, 1923.
Rich-Alloy Company, The, Cleveland, Ohio. Alloys of gold for dental work. 168,583; May 29; Serial No. 163,354; published Feb. 27, 1923.
Richmond Beverage Machine Corporation, Richmond, Va. Machines for dispensing beverages and the like. 168,915; May 29; Serial No. 155,640; published Mar. 6, 1923.
Richmond-Chase Company, San Jose, Calif. Canned fruits. 168,812; May 29; Serial No. 170,036; published Mar. 13, 1923.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 168,974–7; May 29.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 168,983–5; May 29.
Richmond Hosiery Mills, Rossville, Ga. Canopies for electric-light fixtures and parts thereof. 168,991–3; May 29.
Ritter, Samuel P., doing business as Dr. Ritter's Laboratories, Hackensack, N. J. Antiseptic tablets. 168,692; May 29; Serial No. 169,730; published Feb. 13, 1923.
Roberts, Julian, New York, N. Y. Hand sewing, knitting, crewel, chenille, etc., needles. 168,887; May 29; Serial No. 170,256; published Feb. 27, 1923.
Robeson, William B., Port Huron, Mich. Ready-mixed paint. 168,817; May 29; Serial No. 170,089; published Feb. 27, 1923.
Robinson, A. M., Company, Atlanta, Ga. Work shirts. 168,542; May 29; Serial No. 158,155; published Oct. 17, 1922.
Rosenberg, Kate F., doing business as Conservative Chemical Products Company, Chicago, Ill. Belt dressings. 168,963; May 29; Serial No. 171,284; published Mar. 6, 1923.
Ronning Motor Company, Minneapolis, Minn. Ensilage harvesters, tractors, road graders, etc. 169,012; May 29.
Ruggles & Ruggles. (See Johnson, Leonard W.)
Saco Valley Canning Co., Portland, Me. Canned vegetables. 168,632; May 29; Serial No. 168,128; published Feb. 13, 1923.
Safchik & Company, New York, N. Y. Fur garments and women's coats with fur trimming. 168,673; May 29; Serial No. 147,894; published Mar. 7, 1922.
Salz Bros. Inc., New York, N. Y. Fountain pens. 168,858; May 29; Serial No. 173,249; published Mar. 6, 1923.
Sametz, Louis, Inc., Brooklyn, N. Y. Teething rings, combined baby rattles and teething rings. 168,810; May 29; Serial No. 169,986; published Feb. 13, 1923.
Sanborn, Cora A., Brooklyn, N. Y. Fruit confection. 168,550; May 29; Serial No. 160,020; published Aug. 8, 1922.
S & S Shirt Company, The, Philipsburg, Pa. One-piece suits for children. 168,988; May 29.
Sanger Citrus Ass'n, Sanger, Calif. Oranges. 168,602; May 29; Serial No. 168,492; published Mar. 6, 1923.
Sarnoff-Irving Hat Stores, Inc., New York, N. Y. Men's caps, straw and felt hats, and derbies. 168,823; May 29; Serial No. 170,221; published Jan. 30, 1923.
Sauza, Eladio, New York, N. Y. Wines. 168,906; May 29; Serial No. 163,417; published Mar. 13, 1923.
Schieren, Chas. A., Company, New York, N. Y. Leather belting and leather packing. 168,793; May 29; Serial No. 139,723; published Feb. 13, 1923.
Schoener, Stephen, doing business as Quixy Polish Co., Jersey City, N. J. Polish for furniture, automobiles, etc. 168,718; May 29; Serial No. 171,709; published Mar. 13, 1923.
Schwartz, David, Company, Inc., New York, N. Y. Cotton piece goods. 168,849; May 29; Serial No. 174,341; published Mar. 6, 1923.
Sea Food Co., Biloxi, Miss. Canned shrimp and oysters. 168,813; May 29; Serial No. 170,040; published Mar. 13, 1923.
Sea Food Co., Biloxi, Miss. Canned shrimp and oysters. 168,876; May 29; Serial No. 170,041; published Mar. 13, 1923.
Security Cement & Lime Co., Hagerstown, Md. Portland cement. 168,650; May 29; Serial No. 165,762; published Feb. 13, 1923.
Security Drug Co., Alameda, Calif. Hair shampoo, dandruff remover, hair tonic, and scalp cleanser. 168,834; May 29; Serial No. 170,550; published Feb. 13, 1923.
Seelbach, K. C., Company, Inc., New York, N. Y. Scissors, shears, razor blades, pocket, table, and other knives. 168,725; May 29; Serial No. 171,819; published Feb. 27, 1923.
Self-Expression Publishing Company. (See Tsukalas, Nicholas.)
Service Electric Mfg. & Supply Co., Boston, Mass. Canopies for electric-light fixtures and parts thereof. 168,994; May 29.
Sewall Paint & Glass Company, Kansas City, Mo. Ready-mixed wall paints, wall size, and wall-paint thinners. 168,728; May 29; Serial No. 172,186; published Feb. 27, 1923.
Sharpe-Philippi Co., Inc., Philadelphia, Pa. Germicidal solution. 168,663; May 29; Serial No. 155,327; published Feb. 20, 1923.
Sheldon Booth & Co., Chicago, Ill. Polish for polishing enameled, painted, or varnished surfaces. 168,736; May 29; Serial No. 172,636; published Mar. 13, 1923.
Shell Company of California, San Francisco, Calif. Lubricating oils. 168,803; May 29; Serial No. 174,186; published Mar. 13, 1923.
Shellac Co. of New York, New York, N. Y. Chemical composition for the removal of oils, paints, etc. 168,737; May 29; Serial No. 172,689; published Mar. 13, 1923.
Shellac Co. of New York, New York, N. Y. Prepared shellacs, varnishes, color stains, etc. 168,758; May 29; Serial No. 172,690; published Mar. 13, 1923.
Sierra Refining Company, Los Angeles, Calif. Gasoline. 168,777; May 29; Serial No. 174,155; published Feb. 27, 1923.
Signal Electric Manufacturing Co., Menominee, Mich. Telegraph relays, electric bells, radio receiving apparatus, etc. 169,020; May 29.
Silene, Alfred T., Cambridge, Minn. Hair saver and darkener. 168,839; May 29; Serial No. 170,697; published Feb. 13, 1923.
Simons, Sidney G., doing business as Southland Pecan Company, Columbus, Ga. Pecans. 169,024; May 29.
Simpson, Tracy W., doing business as American Dishwashing Machine Company, Oakland, Calif. Dishwashing machines. 168,750; May 29; Serial No. 171,477; published Feb. 27, 1923.
Smith, Allen T., and George F. Case, Los Angeles, Calif. Monthly publication. 168,957; May 29; Serial No. 171,661; published Feb. 27, 1923.
Smith, H. D., & Company, The, Plantsville, Conn. Screw drivers. 168,967; May 29; Serial No. 170,903; published Mar. 6, 1923.
Soap Manufacturing Company, Jacksonville, Fla. Soap. 168,913; May 29; Serial No. 156,026; published Mar. 13, 1923.
Sobrinos de R. Abad Santonja, Alcoy, Spain. Cigarette paper. 168,707; May 29; Serial No. 151,334; published Mar. 13, 1923.
Societa Anonima Edoardo Bianchi, Milan, Italy. Automobiles. 168,611; May 29; Serial No. 168,907; published Jan. 30, 1923.
Societé Chimique de l'Escaut, Hemixem, Antwerp, Belgium. Gelatin and ossein. 168,716; May 29; Serial No. 163,005; published Mar. 13, 1923.
Southern Beverage Company, Galveston, Tex. Flavoring extract for food purposes only. 168,704; May 29; Serial No. 163,949; published Mar. 6, 1923.
Southern Coal & Coke Co., Cincinnati, Ohio. Coal. 168,689; May 29; Serial No. 169,653; published Feb. 13, 1923.
Southern Coal & Coke Co., The, Cincinnati, Ohio. Coal. 168,690; May 29; Serial No. 169,655; published Feb. 13, 1923.
Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La., and Savannah, Ga. Prepared fatty oleaginous or unctuous food substances. 168,645; May 29; Serial No. 165,605; published Feb. 27, 1923.
Southland Pecan Company. (See Simons, Sidney G.)

Specialty Soda Water Bottling Company, Garfield, N. J. Beverage sold as a soft drink. 168,971; May 29; Serial No. 170,499; published Mar. 13, 1923.
Spiropulos, C. T., New York, N. Y. Shoe laces. 169,027; May 29.
Standard Carrier Company, The, New York, N. Y. Pneumatic-tube carrier systems and parts thereof. 168,923; May 29; Serial No. 143,711; published Mar. 13, 1923.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gasoline candles, liquid paraffin, lubricating oils and greases. 168,756; May 29; Serial No. 171,664; published Feb. 13, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum for illuminating, heating, etc. 168,746; May 29; Serial No. 171,291; published Feb. 13, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 168,798; May 29; Serial No. 174,941; published Mar. 13, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 168,799; May 29; Serial No. 174,935; published Mar. 13, 1923.
Stanley Works, The, New Britain, Conn. Hammers. 168,819; May 29; Serial No. 167,491; published Feb. 27, 1923.
Stanley Works, The, New Britain, Conn. Hinges, bolts for securing doors, windows, etc., latches, handles for doors, etc. 168,943; May 29; Serial No. 172,693; published Mar. 6, 1923.
Stanley Works, The, New Britain, Conn. Hinges, bolts, latches, handles for doors, etc. 168,947; May 29; Serial No. 172,563; published Mar. 6, 1923.
Star Beverage Co., Belleville, Ill. Nonalcoholic, noncereal, maltless ginger-flavored beverages sold as soft drinks. 168,780; May 29; Serial No. 120,072; published Feb. 13, 1923.
Star Wood Products Company, Louisville, Ky. Sidings or weatherboardings, baseboards, window casings, and moldings. 168,712; May 29; Serial No. 158,493; published Feb. 20, 1923.
Stein, A., & Company, Chicago, Ill. Dress shields. 168,904; May 29; Serial No. 165,095; published Feb. 27, 1923.
Stephen L. Bartlett Company, Boston, Mass. Cocoa. 168,778; May 29; Serial No. 111,076; published June 10, 1919.
Stetson, George A., doing business as The Elastic Tip Co., Boston, Mass. Doll houses and furniture. 168,929; May 29; Serial No. 173,791; published Mar. 13, 1923.
Stone, Karl M., doing business as K. M. Stone Importing Co., New York, N. Y. Leather, canvas, and fabric boots, shoes, and slippers, etc. 168,786; May 29; Serial No. 123,911; published Apr. 27, 1920.
Strevell-Paterson Hardware Co., Salt Lake City, Utah. Razor strops. 168,911; May 29; Serial No. 157,450; published Feb. 27, 1923.
Strite, Daniel D., South Norwalk, Conn. Nonferrous metal alloy. 168,950; May 29; Serial No. 172,403; published Mar. 6, 1923.
Strohmeier, Frederick E., Ashland, Pa. Sweaters, scarfs, outer shirts and vests, shawls, caps, hats, and girdles. 168,616; May 29; Serial No. 169,092; published Feb. 13, 1923.
Strohmeyer & Arpe Company, New York, N. Y. Vegetable oil flavored with olive oil. 168,571; May 29; Serial No. 166,959; published Feb. 20, 1923.
Strouse, Adler & Co., New Haven, Conn. Corsets. 168,630; May 29; Serial No. 167,952; published Jan. 30, 1923.
Successful Farming Publishing Co., Des Moines, Iowa. Monthly publication. 168,895; May 29; Serial No. 168,436; published Feb. 27, 1923.
Sullivan, Hugh C., Frostproof, Fla. Fresh citrous fruits. 168,547; May 29; Serial No. 159,536; published Jan. 16, 1923.
Sullivan, Sidney Y., Newark, N. J. Household tables. 168,910; May 29; Serial No. 159,292; published Mar. 6, 1923.
Sumner Co., The, Akron, Ohio. Butter. 168,668; May 29; Serial No. 152,968; published Mar. 6, 1923.
Tennessee Paper & Bag Co., Memphis, Tenn. Printing, wrapping, writing, and label paper, envelopes, and lead pencils. 168,859–60; May 29; Serial Nos. 173,108–9; published Mar. 13, 1923.
Tennessee Paper & Bag Co., Memphis, Tenn. Paper, envelopes, lead pencils. 168,861; May 29; Serial No. 172,809; published Mar. 13, 1923.
Tetralin-Gesellschaft mit beschrankter Haftung, Berlin, Germany. Varnishes, lacquers, paint, oils, paints, etc. 168,795; May 29; Serial No. 142,043; published Sept. 26, 1922.
Thomas Chemical Co. (See Walker, W. & H., Inc.)
Thrift Selling Service Co., The, Columbus, Ohio. Toy banks. 168,926; May 29; Serial No. 174,496; published Mar. 13, 1923.
Titanium Pigment Company Inc., Niagara Falls, N. Y. Paints, whether dry, paste, or ready mixed. 168,764; May 29; Serial No. 173,111; published Feb. 27, 1923.
Tsukalas, Nicholas, doing business as Self-Expression Publishing Company, Battle Creek, Mich. Magazines published monthly. 168,965; May 29; Serial No. 171,143; published Feb. 27, 1923.
Triangle Electro Trading Co., Inc., New York, N. Y. Radiotelephone receivers and radio sets and parts of radio sets. 169,000; May 29.
Troy Milk Products Company, East Troy, Wis. Ice-cream mix. 168,625; May 29; Serial No. 167,742; published Feb. 27, 1923.
Twin Falls County Potato Growers Inc., Twin Falls, Idaho. Fresh potatoes. 168,818; May 29; Serial No. 170,103; published Mar. 13, 1923.
Uklean Co., Los Angeles, Calif. Jewelry-cleaning outfit. 168,964; May 29; Serial No 171,237; published Mar. 6, 1923.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Ribbons in the piece, towels and toweling, tapestry, and piece goods. 169,035; May 29.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Floss, embroidery rope, yarns, and threads. 169,036; May 29.
Union Celery Company, Kansas City, Mo. Fresh tomatoes. 168,702; May 29; Serial No. 166,486; published Mar. 6, 1923.
Union Construction Company, San Francisco, Calif. Radio receiving sets and parts thereof. 168,757; May 29; Serial No. 171,671; published Feb. 20, 1923.
Union Cutlery Co., Olean, N. Y. Cutlery. 168,642; May 29; Serial No. 165,514; published Feb. 20, 1923.
United Cigar Stores Company of America, Jersey City, N. J., and New York, N. Y. Candies and chocolates. 168,700; May 29; Serial No. 166,613; published Mar. 6, 1923.
United Drug Company, Boston, Mass. Perfume extract, toilet water, cleansing and vanishing cream. 168,814; May 29; Serial No. 170,049; published Feb. 13, 1923.
United States Products Corporation, San Francisco, Calif. Canned fruit, canned vegetables, canned fish, dried fruit. 168,638; May 29; Serial No. 164,979; published Feb. 27, 1923.
Vacuum Candy Machinery Co., Chicago, Ill. Candy machinery. 169,017; May 29.
Van Gilder, William P., and S. E. Ward, doing business as W. P. Van Gilder, also as S. E. Ward, Brunswick, Nebr. Hog remedy for mixed infection, swine plague, or flu. 168,620; May 29; Serial No. 167,495; published Feb. 13, 1923.
Van Gilder, W. P. (See Van Gilder, William, and S. E. Ward.)
Vapolyptus Co. (See Hottel, Frank C.)
Velvet Oil Company. (See Cavanaugh, William D.)
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Sirup made from cane and maple sugar. 168,655; May 29; Serial No. 166,117; published Mar. 6, 1923.
Vilander, Anna L., New York, N. Y. Petticoat underdrawer. 168,847; May 29; Serial No. 174,949; published Mar. 13, 1923.
Vin-Sok Food Products Corporation, San Francisco, Calif. Processed dried fruits. 168,693; May 29; Serial No. 169,792; published Mar. 6, 1923.
Vivaudou, V., Inc., New York, N. Y. Writing paper, envelopes, bristol or card board suitable for visiting cards. 168,715; May 29; Serial No. 161,660; published Mar. 13, 1923.
Voge, A. Law, doing business as Egoval Chemical Co., New York, N. Y. Extract to be used in the preparation of soft drinks. 168,949; May 29; Serial No. 172,405; published Mar. 13, 1923.
Vogt, Henry, Machine Co., Louisville, Ky. Drop-forged steel valves and fittings. 168,898; May 29; Serial No. 167,590; published Mar. 13, 1923.
Vul Ko Cene Co., The, Kent, Ohio. Chemical composition to assist in vulcanizing rubber. 168,808; May 29; Serial No. 169,940; published Feb. 13, 1923.
Walker Bros. Co., Boston, Mass. Nonalcoholic, maltless flavoring sirups for soft drinks. 168,936; May 29; Serial No. 173,262; published Mar. 13, 1923.
Walker, W. & H., Inc., doing business as Thomas Chemical Co., Pittsburgh, Pa. Alcohol rubbing and bathing preparation. 168,621; May 29; Serial No. 167,500; published Feb. 13, 1923.
Walworth Manufacturing Company, Boston, Mass. Asbestos-rubber sheet packing. 168,653; May 29; Serial No. 165,844; published Feb. 13, 1923.
Ward, Samuel, Manufacturing Co., Boston, Mass. Writing paper and envelopes. 168,604; May 29; Serial No. 168,567; published Dec. 12, 1922.
Ward, S. E. (See Van Gilder, William P., and S. E. Ward.)
Warland, Henry G., New York, N. Y. Piece goods made of combination of silk and ramie. 168,762; May 29; Serial No. 173,060; published Mar. 6, 1923.
Warren Soap Manufacturing Company, Boston, Mass. Outfit package containing soap and a towel. 168,607; May 29; Serial No. 169,939; published Feb. 13, 1923.
Washburn, F. B., & Co., Brockton, Mass. Candy. 168,609; May 29; Serial No. 168,863; published Feb. 13, 1923.
Washburn, Frederick C., New Bedford, Mass. Pin boards for use in textile industry. 168,742; May 29; Serial No. 171,239; published Feb. 27, 1923.
Wayne County Produce Co., The, Brooklyn, N. Y. Vinegar. 168,577; May 29; Serial No. 167,441; published Mar. 6, 1923.
Weinstein, Davad H., Miami, Fla. Cleaning fluids—namely, those adapted for shoes. 168,864; May 29; Serial No. 172,138; published Mar. 6, 1923.

Weissbrod, Emil, & Sons, Inc., Greenfield, Mass. Pass holders. 168,734; May 29; Serial No. 172,408; published Mar 13, 1923.
Wells, Frank O., Company, Inc., Greenfield, Mass. Broaches, push and pull type. 169,008; May 29.
Wells, Frank O., Company, Inc., Greenfield, Mass. Taps and dies. 169,007; May 29.
Wells, Frank O., Company, Inc., Greenfield, Mass. Reamers. 169,009; May 29.
Wenatchee Northern Warehouse & Marketing Co., Wenatchee, Wash. Fresh apples. 168,685; May 29; Serial No. 169,342; published Mar. 6, 1923.
West India Oil Company, New York, N. Y. Candles. 168,769; May 29; Serial No. 173,799; published Feb. 27, 1923.
Western California Fish Co., San Francisco, Calif. Canned, kippered, smoked, and salted fish. 168,636; May 29; Serial No. 168,395; published Feb. 20, 1923.
Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. Fresh apples, peaches, pears, plums, prunes, and quinces. 168,561; May 29; Serial No. 166,517; published Feb. 20, 1923.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mineral oil for insulating and cooling purposes. 168,882; May 29; Serial No. 167,063; published Mar. 13, 1923.
White Rose Ice Cream and Frozen Custard Biscuit Company, The. (See Prestia, Frank.)
Whitman, Edmund B., doing business as Refinishing Products Co., Minneapolis, Minn. Liquid refinishing compound. 168,727; May 29; Serial No. 171,973; published Feb. 27, 1923.
Whittall, M. J., Associates, Worcester, Mass. Wilton and plush carpets. 168,885; May 29; Serial No. 167,063; published Mar. 13, 1923.
Wholesale Distributors Co., The, Chicago, Ill. Canned fruits and vegetables. 168,538; May 29; Serial No. 157,464; published May 23, 1922.
Williams, D. T., Valve Company, The, Cincinnati, Ohio. Valves. 168,945–6; May 29; Serial Nos. 172,567–8; published Mar. 6, 1923.
Wilson, W. D., Printing Ink Co. Ltd., New York, N. Y. Printing and lithographing inks. 169,005; May 29.
Winarick, Arthur, New York, N. Y. Face powders, face creams, perfumes, toilet waters, rouges, etc. 168,573; May 29; Serial No. 167,153; published Feb. 13, 1923.
Winchester Repeating Arms Co., New Haven, Conn. Handled axes, hatchets, hammers, screw drivers, and chisels. 168,891; May 29; Serial No. 169,512; published Mar. 6, 1923.
Winfield Manufacturing Company, The, Warren, Ohio. Sheet-metal cans for coal oil and gasoline. 168,588; May 29; Serial No. 164,139; published Mar. 13, 1923.
Winters Canning Company, Suisun City, Calif. Canned fruits and vegetables. 168,591; May 29; Serial No. 164,570; published Mar. 6, 1923.
Wisconsin Candy Co., Plymouth, Wis. Chocolates. 168,659; May 29; Serial No. 155,654; published Feb. 27, 1923.
Wise, Leo, Cincinnati, Ohio. Tools adapted for general use. 168,671; May 29; Serial No. 151,968; published Feb. 27, 1923.
Withers Brothers, Los Angeles, Calif. Fresh vegetables, deciduous and citrous fruits, etc. 168,648; May 29; Serial No. 165,735; published Mar. 6, 1923.
Witt, John A., doing business as Wittfield Mfg. Co., Los Angles, Calif. Sewing boxes and tailor traps. 168,608; May 29; Serial No. 168,818; published Feb. 27, 1923.
Wittfield Mfg. Co. (See Witt, John A.)
Wood, H. W., Lodi, doing business as Nutwood Vineyard, Oakland, Calif. Fresh deciduous fruits. 168,687; May 29; Serial No. 169,511; published Mar. 6, 1923.
Worumbo Manufacturing Company, Bath, Me. Woolen piece goods. 168,848; May 29; Serial No. 174,375; published Mar. 6, 1923.
Wray, Edward, Chicago, Ill. Monthly magazine. 168,952; May 29; Serial No. 171,975; published Feb. 27, 1923.
Wright Battery Company, Flint, Mich. Storage batteries. 169,004; May 29.
Wyman, Partridge & Co., Minneapolis, Minn. Hair nets. 168,710; May 29; Serial No. 155,722; published Mar. 13, 1923.
Wyman, Partridge & Co., Minneapolis, Minn. Linen and cotton handkerchiefs. 168,578; May 29; Serial No. 162,861; published Mar. 6, 1923.
Yoder, Thomas, Mfg. Co., The, Cleveland, Ohio. Valves and thermostatic controlling or operating means and parts of same. 168,956; May 29; Serial No. 171,678; published Mar. 6, 1923.
Young & Wile, Ltd., New York, N. Y. Soap. 168,951; May 29; Serial No. 172,252; published Mar. 6, 1923.
Zales Bros., New York, N. Y. Hairpins, shoe laces, hair curlers, snap fasteners, garter rings, straight pins, etc. 168,909; May 29; Serial No. 160,270; published Feb. 27, 1923.
Zollinger and Schroth, Inc., New York, N. Y. Silk crêpe piece goods. 168,770; May 29; Serial No. 173,869; published Mar. 6, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Manufacturing Co., Buffalo, N. Y. American Wood Cement Compound. For Semipaste Compound for Filling Defects in Furniture. 25,993; May 29.
Apex Chocolate Company, Cambridge, Mass. Apex Chocolates. For Chocolates. 25,994; May 29.
Baca, Pablo, doing business as La Victoria Packing Company, Los Angeles, Calif. Mole Poblano. For a Mixture of Dried Chili and Spices. 25,996; May 29.
Baca Pablo, doing business as La Victoria Packing Company, Los Angeles, Calif. Pipian Ranchero. For a Mixture of Dried Chili, Spices, and Cereals. 25,995; May 29.
Bestovall Co., The, Stapleton, New York, N. Y. Bestovall. For Metal Polish. 25,997; May 29.
Blue Diamond Materials Company, Inc., Los Angeles, Calif. Blue Diamond Service. For Lime Putty. 25,998; May 29.
Bradt, Gustavus H., San Francisco, Calif. Puyallup. For Red Raspberries. 25,999; May 29.
Bradt, Gustavus H., San Francisco, Calif. Albany. For Blackberries. 26,000; May 29.
Bradt, Gustavus H., San Francisco, Calif. Sumner. For Blackberries. 26,001; May 29.
Bradt, Gustavus H., San Francisco, Calif. Puget Sound. For Blackberries. 26,002; May 29.
Celestino Fernandez & Co., Milwaukee, Wis. Watchman. For Cigars. 26,008; May 29.
Combs, Robert L., Chicago, Ill. Foursome-Match Score Card. For Friction Matches. 26,003; May 29.
Crown Hair Goods Co., New York, N. Y. Miracle Hair Net. For Envelopes for Hair Nets. 26,004; May 29.
Delphia Cigar Co. Inc., Philadelphia, Pa. Tedello. For Cigars. 26,005; May 29.
Elmer Candy Co., Inc., New Orleans, La. Chocolate Covered Sun-Maid Raisins. For Raisins, Chocolate Covered. 26,006; May 29.
Elmer Candy Co., Inc., New Orleans, La. Vieux Carré Souvenir Package. For Candies. 26,007; May 29.
Freeman Dust Absorber Mfg. Co., Colorado Springs, Colo. Freeman's Dust Absorber. For a Preparation for Absorbing Dust from Polished Surfaces. 26,009; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Currants. 26,010; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Sugar. 26,011; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Shrimp. 26,012; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Horse-Radish. 26,013; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Rolled Oats. 26,014; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Apricots. 26,015; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Peas. 26,016; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Coffee. 26,017; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Tea. 26,018; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Macaroni. 26,019; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Evaporated Milk. 26,020; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Cornstarch. 26,021; May 29.
Hoffmann, John, & Sons Co., Milwaukee, Wis. Hoffmann's Finest Quality. For Gloss Starch. 26,022; May 29.
Hoye, Stephen M., doing business as Hoye's Holly Products Co., Brooklyn, N. Y. Hoye's Holly Champagne. For Beverages. 26,023; May 29.
Imperial Perfumery and Barber's Supplies Inc., New York, N. Y. Hygiène De La Tête. For Hair Tonics. 26,024; May 29.
Johnson, Glen S., doing business as Glen S. Johnson & Co., Mineral Wells, Tex. Glen's. For Liver Capsules. 26,025; May 29.
Kellogg Company, Battle Creek, Mich. Instant Coffeola. For Coffeelike Beverages. 26,026; May 29.
Kerns, J., Milwaukee, Wis. Sinclairs. For Cigars. 26,027; May 29.
Kerns, J., Milwaukee, Wis. Flor de Mehlhop. For Cigars. 26,028; May 29.
La Victoria Packing Company. (See Baca, Pablo)

Locke, D. E., doing business as Mammy's Remedy Company, El Paso, Tex. Mammy's Sure-Fat. For Medicine. 26,029; May 29.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Mah Jonge. For Candy. 26,030; May 29.
Mammy's Remedy Company. (See Locke, D. E.)
Milwaukee Paper Box Company, Milwaukee, Wis. Everwear Hosiery. For Hosiery. 26,031; May 29.
Muench, Fred, Brooklyn, N. Y. Muenchner Brand Malt Extract. For Malt Extracts and Sirups. 26,032; May 29.
Petri Cigar Co., Inc., San Francisco, Calif. Toscani Marca Avanti. For Cigars. 26,033; May 29.
Seidler, Carl, New York, N. Y. Pack-O Whipped Cream. For Whipped Cream. 26,034; May 29.
Tobacco By-Products & Chemical Corporation, Louisville, Ky. "Black Leaf 40" Nicotine Sulphate. For Bottles Containing Nicotine Sulphate for Spraying Purposes. 26,035; May 29.
Trio Laboratories, Dallas, Tex. Trio. For Dandruff Remover. 26,036; May 29.
V M S Co., The, Oklahoma, Okla. A-can-a. For a Can of Tire Patch. 26,037; May 29.
Weinger, Solomon, Chicago, Ill. Original Weinger's Best Look For The Name Of S. Weinger On Every Carton. For Cartons Containing Eggs. 26,038; May 29.
Welch Grape Juice Company, Inc., The, Westfield, N. Y. Welch's Grapelade. For Welch's Grapelade. 26,039; May 29.
Young, W. F. Inc., Springfield, Mass. Absorbine, Jr. The Antiseptic Liniment. For Liniment. 26,040; May 29.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. Venus Pencils. For Lead Pencils. 6,730; May 29.
B. V. D. Company, Inc., The, New York, N. Y. They know why they prefer "B. V. D." For Athletic Underwear. 6,731; May 29.
Boston Piano Company, Chicago, Ill. Closing Out Factory Pianos. For Pianos of All Kinds. 6,732; May 29.
Boyd, Charles G., Bethlehem, Pa. You Can Wear Smaller Size Shoes. For Foot Powders for Foot Baths. 6,733; May 29.
Boyd, Charles G., Bethlehem, Pa. Makes the Feet Feel Fine. For Foot Powders for Foot Baths. 6,734; May 29.
Cream of Wheat Co., Minneapolis, Minn. Passed By The Board of Censors. For Wheat Breakfast Food. 6,735; May 29.
Domino House. (See Sullivan, Marguerite.)
Hurley Shoe Co., Rockland, Mass. Hurley Gripsem G/A Arch Shoe. For Shoes. 6,736; May 29.
Kirk, James S., & Company, Chicago, Ill. Attract the Eye to Make Folks Buy. For Soap. 6,737; May 29.
Kirk, James S., & Company, Chicago, Ill. Specially designed for Special Sales. For Soap. 6,738; May 29.
Kirk, James S., & Company, Chicago, Ill. Kirk's Cocoa Hardwater Castile. For Soap. 6,739; May 29.
"S. & M." Dye Work, Inc., Philadelphia, Pa. Color certainteed. For Dyeing of Yarn, Fabric, and Garments. 6,740; May 29.
Sterling Company, The, Chicago, Ill. Happy Home Apron Dresses. For Aprons and Dresses. 6,741; May 29.
Sullivan, Marguerite, doing business as Domino House, Philadelphia, Pa. Permanent Wave Effect Now Quick, Cheap, and Easy. For Curling Fluid. 6,742; May 29.
United Lace & Braid Manufacturing Co., Auburn, R. I. Mr. Beaded Tip. For Beaded-Tip Shoe Lacings. 6,743; May 29.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams, William C., Co., Boston, Mass. Arc and electric welding goggles. 176,436; May 29.
Advanced Metal Stamping Company. (See Hardy, Charles.)
Alderman, Fairchild Co., Rochester, N. Y. Games. 177,206–7; May 29.
Alexander, Robert E., Tulsa, Okla. Jack frames for pumping jacks. 176,813; May 29.
Allen, Edward E., Mfg. Co., Chicago, Ill. Enamel for general use. 179,079; May 29.
Allen, Edward E., Mfg. Co., Chicago, Ill. Floor paint. 179,080; May 29.
Allen, Edward E., Mfg. Co., Chicago, Ill. House paint. 179,081; May 29.
Allmans Co., Milwaukee, Wis. Lotion applied to the face after shaving, hair tonic, tooth paste, etc. 155,471; May 29.
Alphen, Inc., New York, N. Y. Baseballs, bats, masks, heel and toe plates, etc. 169,232; May 29.
American Auto Lamp Co. Inc., New York, N. Y. Electric automobile lamps. 165,600; May 29.
American Hominy Company, Chicago, Ill. Core oils. 178,655; May 29.
American Products Company, The. (See Mills Brothers Company.)
American Refining and Manufacturing Company, Los Angeles, Calif. Lubricating oils and greases and gasoline. 177,261; May 29.
Amore Drug & Chemical Company, New York, N. Y. External remedies for skin diseases. 175,977; May 29.
Anchor Sales Service. (See Mason, Robert L.)
Anti-Darn Hosiery Mills. (See May Hosiery Mills.)
Apex Motor Fuel and Lubricant Co., Chicago, Ill. Lubricating oils and gasoline. 167,156; May 29.
Arbuckle Brothers, New York, N. Y. Coffee. 177,348; May 29.
Aridor Company, The, Chicago, Ill. Jars, cases, and other receptacles. 163,850; May 29.
Asher, Mollie, doing business as Paradise Preparations, Chicago, Ill. Cold cream, greaseless cream, lotions, toilet waters, and perfumes. 163,070; May 29.
Askinn, Morris H., doing business as Trickitone Laboratories, New York, N. Y. Hair tonic. 175,593; May 29.
Babson Bros. (See Blake, Henry, Harness Company, assignor.)
Ball, Maxwell E., doing business as The Goitrex Company, Portland, Ore. Proprietary medicine for goiter swellings, etc. 174,606; May 29.
Ballance, Herbert E., doing business as Ballance and Company, Greensboro, N. C. Candy kisses. 170,266; May 29.
Barrett Company, The, New York, N. Y. Bituminous material for compounding rubber. 178,690–2; May 29.
Bereman, James H., doing business as Stillman Freckle Cream Co., Aurora, Ill. Creams suitable for the treatment of freckles. 173,318; May 29.
Betty Lou, Chicago, Ill. Face powders. 168,536; May 29.
Birtman Electric Company, Chicago, Ill. Electric vacuum cleaner. 175,380; May 29.
Blaisdell Pencil Company, Philadelphia, Pa. Lead Pencils. 178,212; May 29.
Blake, Henry, Harness Company, assignor to Babson Bros., Chicago, Ill. Harness. 168,292; May 29.
Blanc Manufacturing Co. (See Blanc, Samuel.)
Blanc, Samuel, doing business as Blanc Manufacturing Co., Philadelphia, Pa. Antiseptic, astringent, and deodorant mouth wash.
Block-Zimmerman & Company, Los Angeles, Calif. Pickled cabbage. 173,226; May 29.
Boaright, Lenore, San Francisco, Calif. Dolls. 177,649; May 29.
Bochmann, F. A., & Co. Inc., Philadelphia, Pa. Worsted and woolen dress goods in the piece. 175,051–2; May 29.
Bolcom Canal Lumber Co., Seattle, Wash. Laths and lumber. 176,012; May 29.
Bowen, Mildred G., Chicago, Ill. Deodorants. 157,822; May 29.
Bowser, S. F., and Company, Inc., Fort Wayne, Ind. Dry-cleaning systems. 177,068; May 29.
Buren, Asa J., Cullom, Ill. Moisteners used in sealing up stationery. 156,048; May 29.
Burris, John C., Nashville, Tenn. Paint enamels. 165,911; May 29.
Burnham & Morrill Company, Portland, Me. Canned corn and canned succotash. 177,357; May 29.
Calhoun, Robbins & Co., New York, N. Y. Hair tonics, smelling salts, witch hazel, peroxide, etc. 172,207; May 29.
California Alfalfa Products Company, Pasadena, Calif. Beverage sold as a soft drink and sirups and extracts for making same. 175,299; May 29.
California Barrel Co., San Francisco, Calif. Wooden containers and shooks therefor. 176,946; May 29.
CaPhenin Chemical Company, Waverly, Iowa. Laxative wafer. 175,768; May 29.
Caradine Harvest Hat Co., St. Louis, Mo. Straw hats. 168,999; May 29.
Carbondale Machine Company, Carbondale, Pa. Refrigerating and ice-making plants, apparatus, and machines and parts and accessories thereof. 172,637; May 29.
Caron Corporation. (See Daltroff, E., & Cie., assignor.)
Carr, F. S., Company, Boston, Mass. Waterproof automobile and carriage fabric. 177,273; May 29.
Carroll, J. Pratt, Inc., doing business as Sebastian Packing Co., New York, N. Y. Fresh grapefruit, oranges, tangerines, pineapples, limes, etc. 166,347; May 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

C. E. Z. Company, The, Chicago, Ill. House numbers, changeable window display signs, and sign reflectors. 176,449; May 29.
Chase, G. W., and Son Mercantile Co., St. Joseph, Mo. Candy. 176,787; May 29.
Chocolate Products Company, Wilmington, Del., and Baltimore, Md. Candy. 174,890; May 29.
Cincinnati Cordage & Paper Co., The, Cincinnati, Ohio. Printing and writing paper. 173,404; May 29.
Clegg, William F., doing business as W. F. Clegg Cigar Company, Greensboro, N. C. Cigars. 174,195; May 29.
Cleveland Overall Company, The, Cleveland, Ohio. Overalls. 172,212; May 29.
Colgate & Company, Jersey City, N. J. Rouge. 174,290; May 29.
Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. 174,291; May 29.
Condé, Perfumer, New York, N. Y. Face powders and creams, perfumes, toilet waters, rouges, etc. 175,918; May 29.
Connecticut Telephone & Electric Company, Incorporated, The, Meriden, Conn. Electron tubes, sockets for electron tubes, rheostats, etc. 176,400; May 29.
Conner, Geo. W., Boston, Mass. Metal-fixture canopies. 174,234; May 29.
Consolidated Tool Works, Inc., New York, N. Y. Hack-saw frames and coping-saw frames. 176,883; May 29.
Coty, Inc., New York, N. Y. Perfumes. 175,920; May 29.
Cumberland Chemical Co., Nashville, Tenn. Proprietary medicinal preparations. 170,428; May 29.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Perfume, toilet water, rouges, face powder, etc. 173,874; May 29.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Perfume, toilet water, rouges, etc. 173,877; May 29.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Perfume, face and talcum powders, etc. 173,881; May 29.
Davy, Mary J. A., New York, N. Y. Fasteners made of ribbon or other material for holding in place lingerie ribbons or straps. 172,886; May 29.
Deane Plaster Co., The, Yonkers, N. Y. Antiseptic dressings, gauzes, cotton and bandages. 175,347; May 29.
Delta Export Lumber Corporation, Memphis, Tenn. Lumber and veneers. 178,498; May 29.
Detroit City Gas Company, Detroit, Mich. Domestic gas ranges. 170,128; May 29.
Detroit Packing Company, Detroit, Mich. Fresh beef. 166,658; May 29.
Dixon, Charles P., doing business as Itis-Real Remedy Company, Kansas City, Mo. Salves and ointments. 162,613; May 29.
Donaldson & Co. (See Griffiths, David R.)
Earl Fruit Company of The Northwest, Spokane, Wash. Fresh apples. 177,282; May 29.
Elkton Lithia Bottling Company. (See Flory, I. L.)
Enterprise Paint Mfg. Co., Chicago, Ill. Dry, paste, and ready-mixed paints, varnishes, varnish removers, and enamel paints. 174,829; May 29.
Eureka Specialty Printing Company, Incorporated, Scranton, Pa. Paper for trading stamps, coupons, safety paper, etc. 178,240; May 29.
Estate of Julia V. H. Magee, Magnetic Springs, Ohio. Medicinal water. 161,493; May 29.
Evansville Oil & Grease Company, Evansville, Ind. Fuel oils and lubricating oils and greases. 177,902; May 29.
Everlasting Yeast Company, Weiser, Idaho. Yeast cakes. 173,630; May 29.
Federal Underwear Co., New York, N. Y. Infants' coats. 171,837; May 29.
Fellsway Rubber Co., Boston, Mass. Rubber tiling. 178,338; May 29.
Ferguson Manufacturing Company, The, Suffolk, Va. Sprayers for spraying vegetation. 175,479; May 29.
Fiction House, Inc., New York and Long Island City, N. Y. Magazines, books, and stories. 155,304; May 29.
First Aid Specialty Company, Inc., New York, N. Y. Medical and surgical appliances. 177,177; May 29.
Fisher, G. H., & Co., Glendale, N. Y. Variometers and variocouplers. 175,549; May 29.
Fisk Rubber Company, The, Chicopee Falls, Mass. Vehicle tires and rubber tubes therefor. 171,454; May 29.
Flapper Novelty Doll Co. (See Worrell, Lola C.)
Flory, I. L., doing business as Elkton Lithia Bottling Company, Elkton, Va. Ginger ale. 174,692; May 29.
Frederick City Packing Company, Inc., The, Frederick, Md. Canned vegetables. 177,372; May 29.
Garten, Elmer A., Hinton, W. Va. Composition for stopping leaks in tires and for preserving rubber. 136,626; May 29.
General Electric Company, Schenectady, N. Y. Electric motors. 161,182; May 29.
Gene-Vall Cigar Co., Inc., New York, N. Y. Cigars. 163,677; May 29.
Giocalas, Th. & V. Coyiazoglu, New York, N. Y. Dates. 174,435–7; May 29.
Giocalas, Th. & V. Coyiazoglu, New York, N. Y. Dates. 174,439; May 29.
Gladding Dry Goods Co., Providence, R. I. Bookcases, beds, etc. 158,829; May 29.
Globe Import Co. (See Richter, Julius.)
Globe Laboratories, Fort Worth, Tex. Clear refined anti-hog-cholera serum, anti-hog-cholera serum, hog-cholera virus, mixed infection bacterin for swine, etc. 163,752; May 29.
Goethel, Alfred C., Co., Milwaukee, Wis. Dust collectors. 157,369; May 29.
Goltrex Company, The. (See Ball, Maxwell E.)
Goldman, Harry, Chicago, Ill. Advertising devices. 169,014; May 29.
Goodell-Pratt Company, Greenfield, Mass. Bench grinders. 177,082; May 29.
Goodell-Pratt Company, Greenfield, Mass. Bench vises. 176,737; May 29.
Goodell-Pratt Company, Greenfield, Mass. Miter boxes. 176,893; May 29.
Goodell-Pratt Company, Greenfield, Mass. Polishing and grinding heads. 176,825; May 29.
Goodell-Pratt Company, Greenfield, Mass. Valve grinders. 176,824; May 29.
Gordon, Mac, doing business as Saigo Varnish Works, New York, N. Y. Varnish. 178,721; May 29.
Griffiths, David R., doing business as Donaldson & Co., Glasgow, Scotland. Golf clubs, balls, bags, irons, and tees. 175,390; May 29.
Hagerstown Table Works. (See Miller, Francis H.)
Hall, J. H., Company, The, Providence, R. I. Paper used for printing bonds, checks, drafts, and similar commercial use. 174,616; May 29.
Hamaguchi, Gihei Unakami Gun, Chiba Ken, Japan. Tamari, vinegar, extract of soy, extract of tamari, sauces, and soy. 174,434; May 29.
Hamersley Manufacturing Company, The, New York, N. Y. Waxed paper. 178,920; May 29.
Hardy, Charles, doing business as Advanced Metal Stamping Company, New York, N. Y. Radio apparatus. 175,865; May 29.
Hartvig, John A., Oakland, Calif. Nonelectric iron heated hair-waving implements. 178,101; May 29.
Hays, J. M., Wood Products Company, Division of Standard Crate & Filler Company, Jefferson City, Mo. Automobile bumper. 172,629; May 29.
Hazeltine, Louis A., Hoboken, N. J. Radio receiving sets. 176,676; May 29.
Heitel, Fannie, New York, N. Y. Chemical preparation for preventing the further tearing and ripping of hosiery. 168,680; May 29.
Heller, B., & Company, Chicago, Ill. Chemical preparation for facilitating the scalding, etc., of hogs. 171,756; May 29.
Heller, B., & Company, Chicago, Ill. Metal polish. 171,757; May 29.
Henry & Allen, Auburn, N. Y. Repair parts for agricultural machinery and implements. 175,790 May 29.
Hercules Carboy Box Company, Newark, N. J. Receptacles for carboys. 178,342; May 29.
Heyman, Marcus A., New York, N. Y. Piece goods made of silk. 176,407; May 29.
Highland Manufacturing Company, Holyoke, Mass. Writing, typewriting, and printing papers, tablets, etc. 125,503; May 29.
Hiller, Stanley, Inc., San Jose, Calif. Waste saving machinery and apparatus. 171,712; May 29.
Hirsch, Walter J., Company, Chicago, Ill. Ice-cream cones. 172,534; May 29.
Hoey, John, & Co., San Francisco, Calif. Mattresses. 177,084; May 29.
Hooper, Wm. E., & Sons Co., Woodberry, Md. Woven belting, hose-valve packing, etc. 168,152; May 29.
Horne Manufacturing Co., Jersey City, N. J. Radio receiving sets and parts thereof. 164,317; May 29.
Howe, Donald W., Rochester, N. Y. Mayonnaise, sweet whip or creme topping for desserts, salads, etc. 161,362; May 29.
Hoy, F. P. Inc., New York, N. Y. Corsets. 169,972; May 29.
Hunt-Rankin Leather Co., Boston, Mass. Leathers. 174,450; May 29.
Hurst, John E., & Co. Incorporated, Baltimore, Md. Hosiery, knitted underwear, gloves, mittens, gauntlets. 173,327; May 29.
Hyland, George H., doing business as Standard Homeopathic Company, Los Angeles, Calif. Remedy for cold in head, grippe, influenza, etc. 172,595; May 29.
I. & Y. Cigar Company. (See Yereshefsky, Isidore.)
Idaho Producers' Union, Caldwell, Idaho. Fresh vegetables, citrous fruits, grapes, and melons. 170,685; May 29.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. 174,741; May 29.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. 174,781–2; May 29.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. 174,783; May 29.
Illinois Electric Porcelain Company, Macomb, Ill. Insulators and knobs. 167,354; May 29.
Itis-Real Remedy Company. (See Dixon, Charles P.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Janssen, H., & Co., San Francisco, Calif. Olive oil. 167,642; May 29.
Jordan Marsh Company, Boston, Mass. Golf balls. 178,923; May 29.
Kamenstein, Meyer, Brooklyn, N. Y. Washboilers. 145,463; May 29.
Kansas City Macaroni & Importing Co., Kansas City, Mo. Shell-shaped macaroni. 177,303; May 29.
Kellom, Charles F., doing business as Chas. F. Kellom & Co., Philadelphia, Pa. Crude oil, gasoline, and kerosene. 161,840; May 29.
Kentucky Rock Asphalt Co., Louisville, Ky. Asphalt. 178,047; May 29.
Kerite Insulated Wire & Cable Company, Inc., The, Seymour, Conn., and New York, N. Y. Insulated wire and cables. 178,107; May 23.
Kickbusch, A., Grocery Company, Wausau, Wis. Canned fruits and vegetables, coffee, tea, and prepared mustard. 177,387; May 29.
Klauber Wangenheim Co., San Diego, Calif. Coffee. 176,896; May 29.
Knitted Textiles Corporation, New York, N. Y., and Allentown, Pa. Knitted fabrics in the piece and woven silk and cotton piece goods. 174,311; May 29.
Kosmos Chemical Company, Cincinnati, Ohio. Fingernail liquid gloss. 160,140; May 29.
Krauee, Robt., Co., The, Davenport, Iowa. Overalls, shirts, pants, or trousers, coats, etc. 171,701; May 29.
Laird & Son. (See McLennan, Kenneth J. C.)
Lake Erie Provision Company, The, Cleveland, Ohio. Hams, bacon, lard, and sausage products. 172,422; May 29.
Lapres, Theo. J. Inc., Atlantic City, N. J. Salt-water taffy. 167,777; May 29.
La Resista Corset Company, The, Bridgeport, Conn. Corsets. 167,004; May 29.
Lawrence, C. Harland, Taunton, Mass. Yarn spun with a mixture of cotton and wool. 177,006; May 29.
Lawton, Thomas, New York, N. Y. Devices for massaging or exercising the human body. 177,851; May 29.
La Valliere Company, The, New Orleans, La. Perfume extract, toilet water, face powder. etc. 173,604; May 29
Lehman Bros., New York, N. Y. Nickel, silver-plated articles. 177,391; May 29.
Lehnhoff-Wyld, Frederic, Paris, France. Oxylodide of bismuth in camphorated solution. 175,901–2; May 29.
Levey Printing Company, Indianapolis, Ind. Blank papers, lining paper, and fly sheets for book covers and letter heads. 173,504; May 29.
Levey, Samuel B., doing business as Wonder Products Company, Newark, N. J. Shampoo. 170,172; May 29.
Levi Bert & Co., Inc., New York, N. Y. Cotton piece goods. 177,133; May 29.
Leys, Christie & Co., New York, N. Y. Artificial pearls. 179,734; May 29.
Lionel Trading Co. Inc., New York, N. Y. Perfumes, toilet waters, face lotions, creams, and powders, etc. 174,083; May 29.
Lockyer, Emily G. F., London, England. Heated packing cases for keeping food hot. 158,989; May 29.
Lowell Company, The, New York, N. Y. Compacts for face powder. 175,667; May 29.
Lowrance, John W., Boston, Mass. Cold cream, complexion powder, face powder, tooth paste, etc. 171,427; May 29.
Lungardia Company, Dallas, Tex. Laxatives. 175,936; May 29.
McBride, James P., Brooklyn, N. Y. Tools for kitchen use in the handling of hot articles. 175,364; May 29.
McLennan, Kenneth J. C., doing business as Laird & Son, Edinburgh, Scotland. Preparation for external use in the treatment of rheumatism, lumbago, etc. 175,566; May 29.
McMullen, Jas. R., New York, N. Y. Golf balls and clubs. 177,503; May 29.
Manton-Gaulin Manufacturing Company, Inc., Boston, and South Boston, Mass. Homogenizer for rendering homogeneous the ingredients of compounded products. 172,425; May 29.
Manufacturing Jewelers Export Co., Inc., New York, N. Y. Articles of jewelry and personal adornment. 169,680; May 29.
Marinette Electric Corporation, Marinette, Wis. Phones for use with radio apparatus. 176,635; May 29.
Marvel Products Company, The, Cleveland, Ohio. Gasoline and liquid gauges. 177,682; May 29.
Mason, Robert L., doing business as Anchor Sales Service, Waterloo, Iowa. Trading certificates. 173,518; May 29.
Master Radio Corporation, Los Angeles, Calif. Radiotelephone attachments. 171,544; May 29.
May Hosiery Mills, doing business as Anti-Darn Hosiery Mills, Nashville, Tenn. Hosiery. 173,843; May 29.
Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Silk and wool fabrics and mixtures thereof in the piece. 177,505; May 29.
Miller, Francis H., doing business as Hagerstown Table Works, Hagerstown, Md. Household and office furniture. 175,203; May 29.
Milliken, John T., & Company, doing business as Regent Laboratories, St. Louis, Mo. Medicinal oil used as a laxative, analgesic balm, castor oil, etc. 174,093; May 29.
Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Perfume, toilet water, talcum powder, cold cream, etc. 175,318; May 29.
Milo Silk Hosiery Mills, Newark, N. J. Hosiery. 173,973; May 29.
Mirose Laboratories. (See Selkowitz, Isidor J.)
Morgen, Abraham H., doing business as Wiz Dress Company, New York, N. Y. Women's, misses', and children's dresses. 176,751; May 29.
Morgen, Abraham H., doing business as Wiz Dress Company, New York, N. Y. Women's, misses', and children's dresses. 176,753; May 29.
Morris Golf Ball Manufacturing Company, Wimbledon, England. Golf balls. 177,098; May 29.
Mouquin Restaurant and Wine Company, Limited, The, New York, N. Y. Beverages sold as soft drinks and sirups for making same. 176,686; May 29.
Murray Company, The, Dallas, Tex. Cotton gins and cotton-gin machinery. 176,419; May 29.
Murray Trading Co., Inc., The, New York, N. Y. Mercerized cotton pongee in the piece. 176,908; May 29.
Murray Trading Co., Inc., The, New York, N. Y. All-silk pongee in the piece. 176,909; May 29.
Naamlooze Vennootschap Lak-, Verf- & Vernisfabriek "Ivormica," Schiedam, Netherlands. Ready-mixed paints, lacquers, varnishes, and solvent for varnishes and paints. 172,171; May 29.
National Almond Products Co. Inc., Brooklyn, N. Y. Almond paste, almonds, blanched peanuts, etc. 155,513; May 29.
National Refining Company, The, Cleveland, Ohio. Lubricating grease. 161,695; May 29.
Neutrasol Products Corporation, New York, N. Y. Oils for preparing silk, wool, etc., for manufacture. 177,988; May 29.
Never-Stretch Mattress Company, Philadelphia, Pa. Mattresses. 175,616; May 29.
Newton, Chambers & Co. Limited, near Sheffield, England. Apparatus for generating and diffusing vaporized germicides or disinfectants. 177,922; May 29.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Wool. 161,380; May 29.
Nichols, T. & H., Nutley, N. J. Spark plugs. 177,101; May 29.
Nitrose Company, Peoria, Ill. Ready-mixed or paste paint. 159,690½; May 29.
NoLance Chemical Company, New Brookland, S. C. Salves and ointments for boils, carbuncles, bone felons, etc. 175,729; May 29.
Okla-Cola Company, Oklahoma, Okla. Beverage sold as a soft drink. 174,797; May 29.
Old Master Color Co., Provincetown, Mass. Tubed artist oil paints, water colors, etc. 174,025; May 29.
Oneida Community, Limited, Oneida, N. Y. Silver-plated flatware, tableware, and cutlery. 175,731; May 29.
Orchard Paper Company, St. Louis, Mo. Twine. 179,053; May 29.
Pacific Novelty Company, New York, N. Y. Combs and barrettes. 176,851; May 29.
Page, Percy E., New York, N. Y. Face powders and creams, perfumes, toilet waters, rouges, etc. 175,941; May 29.
Palmer-Bee Company, Detroit, Mich. Speed reducers, shaft couplings, friction clutches, hoists, etc. 176,359; May 29.
Paradise Preparations. (See Asher, Mollie.)
Parfumerie Caron. (See Daltroff, E., & Cie.)
Parker-Bridget Company, Washington, D. C. Men's neckties. 169,818; May 29.
Parks-Belk Company. (See Southern Commercial Company.)
Patch, E. L., Company, The, Stoneham, Mass. Skin lotion. 174,482; May 29.
Perkins & Butler, Inc., Worcester, Mass. Toilet paper. 177,990; May 29.
Philipps Aktien-Gesellschaft, Frankfort on the Main, Germany. Orchestrions, pianos, organs, etc. 135,212; May 29.
Phillips & Hart, Jacksonville, Fla. Hosiery. 173,297; May 29.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Signal electric lamps for automotive vehicles. 179,739; May 29.
Plenge's Pharmacy Inc., Charleston, S. C. Ant mats and containers. 166,605; May 29.
Pohlmann, Herman G., Chicago, Ill. Writing paper. 148,851; May 29.
Polygon Products Co., Boston, Mass. Cement packing for joints. 177,514; May 29.
Potter, C. D. Co., The, Stamford, Conn. Radio equipment. 175,437; May 29.
Premier Cutlery, Inc., New York, N. Y. Certain kinds of cutlery of base metal. 159,049; May 29.
Pulliam, Clarence, Detroit, Mich. Frozen ice-cream dainties. 177,572; May 29.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Pung-Chow Company, Inc., New York, N. Y. Game. 179,111; May 29.
Pyrene Manufacturing Co., Newark, N. J. Temperature-indicating device for gas engines. 175,736; May 29.
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candies. 174,487; May 29.
Radio Mineral Company, Newark, N. J. Crystals or minerals for use on wireless telegraphy and wireless telephony apparatus. 178,281; May 29.
Regent Laboratories. (See Milliken, John T., & Company.)
Reith, Charlotte E., Carthage, Mo. Outer suits of cloth and leather. 172,122; May 29.
Richardson & Holland, Inc., Seattle, Wash. Powdered sugar. 141,399; May 29.
Richardson Dry Goods Company, St. Joseph, Mo. House dresses and aprons. 173,301; May 29.
Richter, Julius, doing business as Globe Import Co., New York, N. Y. Manicure sets, including scissors and cuticles. 178,627; May 29.
Rock Lick Smokeless Coal Company, Beckley, W. Va. Coal. 174,977; May 29.
Rodriguez, Salvador, New York, N. Y. Cigars. 178,869; May 29.
Roe, William G., Winterhaven, Fla. Fresh citrous and deciduous fruits. 177,400; May 29.
Rosenberg, Louis F., doing business as The "Rosilk" Company, Providence, R. I. Silk thread for stringing pearls and beads. 178,933; May 29.
"Rosilk" Company, The. (See Rosenberg, Louis F.)
Rothschild & Company, Chicago, Ill. Pearl necklace. 176,503; May 29.
Rugclenso Mfg. Co., Topeka, Kans. Rug-cleaning compound. 160,778; May 29.
Russell Playing Card Co., Milltown, N. J. Playing cards. 175,948; May 29.
Russo, Andrea, Chicago, Ill. Olive oil and canned anchovies. 177,411; May 29.
Rusonite Products Corporation, New York, N. Y. Radio rectifiers and cat whiskers. 175,739; May 29.
Sachs Shoe Manufacturing Company, The, Cincinnati, Ohio. Shoes made of leather and combinations of leather and fabric. 170,993; May 29.
Safety Wire Gas Globe Co., The, Columbus, Ohio. Odor absorbents and adsorbents. 159,294; May 29.
Saigo Varnish Works. (See Gordon, Mac.)
Salts Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, suits, etc. 173,676; May 29.
Sayre-Level Radio Company, The, Philadelphia, Pa. Radio apparatus. 175,741; May 29.
Schiffman, Isadore, New York, N. Y. Articles of jewelry of precious metal. 174,369; May 29.
Schlueter Manufacturing Co., St. Louis, Mo. Water and dairy pails, cream, oil, fish, and other cans, and bread boxes. 172,903; May 29.
Schnezler, Heinrich, Schaffhausen, Switzerland. Hand and foot balls of rubber. 170,342; May 29.
Schroeder & Hinkle, Columbia, Pa. Egg dye. 173,537; May 29.
Schultz & Hirsch Co., Chicago, Ill. Box springs, mattresses, and pillows. 175,950; May 29.
Sebastian Packing Co. (See Carroll, J. Pratt, Inc.)
Seigenberg & Sher, Los Angeles, Calif. Dolls. 179,062; May 29.
Selkowitz, Isidor J., doing business as Mirose Laboratories, New York, N. Y. Hair tonic, complexion powder, depilatory, etc. 159,628; May 29.
Sheffer, Max B., Card Co., Chicago, Ill. Sets of pictures. 172,404; May 29.
Silver Palm Citrus Growers Association, Maranja, Fla. Fresh citrous fruits. 170,044; May 29.
Simonds Saw and Steel Company, Fitchburg, Mass. Saws. 175,957–8; May 29.
Simonds Saw and Steel Company, Fitchburg, Mass. Saws. 176,000; May 29.
Smith, Kline & French Co., Philadelphia, Pa. Acetylsalicylic acid. 175,168; May 29.
Societe Vinicole de Champagne, Paris, France. Champagne wine. 165,214; May 29.
Southern Can Company, Baltimore, Md. Cans made of tin for containing food products, etc. 178,477; May 29.
Southern Commercial Company, doing business as Parks-Belt Company, Durham, N. C. Hair nets. 178,364; May 29.
Spear & Susskind, Providence, R. I. Vest chains, lapel or coat chains, key chains, bracelet chains, etc. 175,818; May 29.
Special Products Laboratory, Inc., O'Fallon, Ill. Ointment for treatment of burns and denudations of skin. 140,850; May 29.
Spurgin Manufacturing Company, Chicago, Ill. Currency, straps of $500 denominations. 177,575; May 29.
Standard Homeopathic Company. (See Hyland, George H.)
Starr, Daniel, doing business as Starr Knitting Mill, Brooklyn, N. Y. Knit sweaters. 169,141; May 29.
Stauffer Chemical Company, San Francisco, Calif. Chemical fungicide. 175,820; May 29.
Stewart Corporation, Chicago, Ill. Writing and drawing surfaces. 178,879; May 29.
Stillman Freckle Cream Co. (See Bereman, James H.)
St. Louis Brass Manufacturing Company, St. Louis, Mo. Electrical lighting fixtures. 176,226; May 29.
Storms, H. M., Company, Brooklyn, N. Y. Carbon paper, typewriter ribbons, etc. 154,850; May 29.
Tallqvist, Theodor W., Helsingfors, Finland. Hæmoglobin scales. 174,542; May 29.
Tecla, M., & Co., New York, N. Y. Pearl necklaces. 167,958; May 29.
Thurman, William H., Van Buren, Ark. Mineral water. 175,415; May 29.
Tobias, Julius & Bro., Boston, Mass. Hats for women. 165,898; May 29.
Torrey, Julia W., New York, N. Y. Toy dolls and animals. 173,907; May 29.
Travis, Romaine & Jellé, Inc., New York, N. Y. Silk, artificial silk, wool piece goods and combinations thereof. 174,543; May 29.
Tribune Company, The, Chicago, Ill. Newspaper and newspaper supplements published weekly. 177,707; May 29.
Trichitone Laboratories. (See Askinn, Morris H.)
Tubular Woven Fabric Company, Pawtucket, R. I. Rubber-covered wire and cords, both for electrical purposes. 166,154; May 29.
Tump, Paul, Milwaukee, Wis. Cleaning powder. 174,644; May 29.
Turner & Walls, New York, N. Y. Silks, cotton, wool, and mixtures thereof in the piece and shirtings in the piece. 176,928; May 29.
Uncas Manufacturing Co., Providence, R. I. Finger rings. 172,786; May 29.
United Drug Company, doing business as Langlois, Boston, Mass. Perfumes, toilet waters, complexion powders, etc. 173,793; May 29.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, stucco, and wall plaster. 176,862; May 29.
United States Gypsum Company, Chicago, Ill. Plaster board and plaster wall board. 177,804; May 29.
Unkefer, Geo. R., Inc., Chicago, Ill. Oil used in making ready-mixed enamels and paints. 172,135; May 29.
U. S. Hame Company, Buffalo, N. Y. Hame attachments. 178,481; May 29.
U. S. Hame Company, Buffalo, N. Y. Hame trimmings and saddlery hardware. 178,311; May 29.
Utility Service Association, Chicago, Ill. Toilet-paper cabinets. 157,050; May 29.
Van Ess Laboratories, Inc., Chicago, Ill. Massage preparations or tonics for the treatment of the head and scalp. 166,487; May 29.
Voigtländer & Sohn Aktiengesellschaft, Brunswick, Germany. Single and double telescopes and binoculars, photographic lenses and cameras. 173,613; May 29.
Warland, Henry G., New York, N. Y. Men's and women's sport clothes. 173,457; May 29.
Wellson Specialty Company, Hyattsville, Md. Chemical preparations for the treatment of face, scalp, and hair troubles. 174,224; May 29.
Wells-Treister Co., Inc., New York, N. Y. Fur coats, wraps, capes, scarfs, neckpieces, and muffs. 172,699; May 29.
West Virginia Pulp & Paper Company, New York, N. Y. Book and wrapping paper. 177,256; May 29.
Westchester Bottling Works, New Rochelle, N. Y. Beverages sold as soft drinks and sirups for making same. 176,700; May 29.
Wester Brothers, New York, N. Y. Cutlery. 156,206; May 29.
White Cap Battery Mfg. Co., Owensboro, Ky. Storage batteries. 177,157; May 29.
Whitney Metal Tool Company, Rockford, Ill. Metal punching tools and dies. 175,586; May 29.
Wilhelm, Henry, Company, Pittsburgh, Pa. Sheet glue. 178,319–20; May 29.
Willows, Francis, Butler & Thompson, Limited, London, England, and The Plains, Va. Remedy for worms in dogs. 167,113; May 29.
Winchester Repeating Arms Co., New Haven, Conn. Pocketknives. 175,693; May 29.
Winslow, Samuel, Skate Mfg. Co., The, Worcester, Mass. Ice skates. 175,975; May 29.
Wiz Dress Company. (See Morgen, Abraham H.)
Wonder Products Company. (See Levey, Samuel B.)
Worrell, Lois C., doing business as The Flapper Novelty Doll Co., New York, N. Y. Dolls. 178,652; May 29.
Wyman, Maurice, Baltimore, Md. Shoes made of leather, rubber, fabric, etc. 175,449; May 29.
X-Tol Products Company, Dayton, Ohio. Lotion for the scalp, face, and hands. 175,752; May 29.
Yard-O-Meter Corporation, St. Louis, Mo. Devices for computing and measuring fabrics. 175,904; May 29.
Yereshefsky, Isidore, doing business as I. & Y. Cigar Company, New York, N. Y. Cigars. 175,494; May 29.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Air heating, moistening, and ventilating device. J. J. Nesbitt. 168,990; May 29.
Alloy, Nonferrous metal. D. D. Strite. 168,950; May 29; Serial No. 172,403; published Mar. 6, 1923.
Alloys and metals for use in jewelry and jewelers' wares. Marret, Bonnin, Label et Guieu. 168,972; May 29; Serial No. 170,302; published Mar. 6, 1923.
Alloys of gold for dental work. Rich-Alloy Company. 168,583; May 29; Serial No. 163,354; published Feb. 27, 1923.
Aluminum alloy. Paralite Company. 168,552; May 29; Serial No. 160,150; published Feb. 20, 1923.
Apples. Wenatchee Northern Warehouse & Marketing Co. 168,685; May 29; Serial No. 169,342; published Mar. 6, 1923.
Apples, peaches, pears, plums, etc., Fresh. Western New York Fruit Growers' Co-Operative Packing Ass'n. 168,561; May 29; Serial No. 166,517; published Feb. 20, 1923.
Arch supports. Pliable Arch Support Company. 168,585; May 29; Serial No. 163,471; published Feb. 13, 1923.
Augers and bits, Boxes for containing. Irwin Auger Bit Company. 168,723; May 29; Serial No. 171,802; published Feb. 27, 1923.
Augers and bits, Roll cases for containing. Irwin Auger Bit Company. 168,722; May 29; Serial No. 171,800; published Feb. 27, 1923.
Automobile accessories. Essandee Corporation. 168,665; May 29; Serial No. 154,586; published Feb. 20, 1923.
Automobiles. Societa Anonima Edoardo Bianchi. 168,611; May 29; Serial No. 168,907; published Jan. 30, 1923.
Axes, hatchets, hammers, screw drivers, and chisels, Handled. Winchester Repeating Arms Co. 168,891; May 29; Serial No. 169,512; published Mar. 6, 1923.
Bamboo lengths, Split. H. L. Leonard Rod Co. 168,732; May 29; Serial No. 172,337; published Feb. 13, 1923.
Bath robe which may be used as a towel. C. R. Hoyme. 168,559–60; May 29; Serial Nos. 166,505–6; published Feb. 13, 1923.
Batteries, Storage. Wright Battery Company. 169,004; May 29.
Beds, Crib. Kiddie-Town Products, Inc. 168,912; May 29; Serial No. 156,067; published Feb. 27, 1923.
Belt dressings. K. T. Rosenberg. 168,963; May 29; Serial No. 171,284; published Mar. 6, 1923.
Belting and packing, Leather. Chas. A. Schieren Company. 168,793; May 29; Serial No. 139,723; published Feb. 13, 1923.
Belting, Leather and cotton. Peerless Belting Company. 168,982; May 29.
Beverage and concentrate for making same. Chocolate Beverage Corporation. 168,948; May 29; Serial No. 172,514; published Mar. 13, 1923.
Beverage and sirups used in preparation of same. C. L. Beardsley. 168,941; May 29; Serial No. 172,858; published Mar. 13, 1923.
Beverage-dispensing machines. Richmond Beverage Machine Corporation. 168,915; May 29; Serial No. 155,640; published Mar. 6, 1923.
Beverage sold as a soft drink. Specialty Soda Water Bottling Company. 168,971; May 29; Serial No. 170,499; published Mar. 13, 1923.
Beverage used as a soft drink. Corning Ice & Bottling Works. 168,931; May 29; Serial No. 173,624; published Mar. 13, 1923.
Beverages sold as soft drinks. J. A. Anthony. 169,021; May 29.
Beverages sold as soft drinks and sirups for making the same. W. G. Keck. 168,930; May 29; Serial No. 173,770; published Mar. 13, 1923.
Beverages sold as soft drinks, Ginger-flavored. Star Beverage Co. 168,780; May 29; Serial No. 120,072; published Feb. 13, 1923.
Bicycles and motor cycles. Fabbrica Automobilé e Velocipedi Edoardo Bianchi. 168,610; May 29; Serial No. 168,877; published Jan. 30, 1923.
Binding braids, galloons, etc. James Nelson, Ltd. 168,916; May 29; Serial No. 154,321; published Mar. 6, 1923.
Boilers and hot-air furnaces, Steam and water. Boynton Furnace Co. 169,028; May 29.
Bookkeeping record and correspondence blank forms, Loan societies'. Hawkins Mortgage Co. 168,883; May 29; Serial No. 167,396; published Mar. 13, 1923.
Books, Blank record. Forbes Publishing Co. 168,557; May 29; Serial No. 161,982; published Feb. 20, 1923.
Boots, shoes, slippers, kimonos, negligees. K. M. Stone. 168,786; May 29; Serial No. 123,911; published Apr. 27, 1920.
Bottles, rubber gloves, thermometers, rubber sheets, etc., Hot-water. Calhoun, Robbins & Co. 168,729; May 29; Serial No. 172,210; published Feb. 13, 1923.
Boxes and containers comprising boxes and containers for cream, salve, pins, etc. E. I. du Pont de Nemours & Company. 168,825; May 29; Serial No. 170,237; published Mar. 13, 1923.
Broaches. Frank O. Wells Company. 169,008; May 29.
Brooms. W. F. Cox. 168,785; May 29; Serial No. 122,932; published Feb. 13, 1923.
Brushes. E. I. du Pont de Nemours & Company. 168,888; May 29; Serial No. 170,240; published Mar. 13, 1923.
Burs. M. D. Barkann. 168,741; May 29; Serial No. 171,198; published Feb. 27, 1923.
Butter. Sumner Co. 168,668; May 29; Serial No. 152,968; published Mar. 6, 1923.
Calcimine. Reardon Company. 168,802; May 29; Serial No. 174,214; published Feb. 27, 1923.
Calendars. Defiance Manufacturing Company. 168,978; May 29.
Can openers. Quicksafe Manufacturing Company. 168,664; May 29; Serial No. 155,320; published Feb. 20, 1923.
Candies and chocolates. United Cigar Stores Company of America. 168,700; May 29; Serial No. 166,613; published Mar. 6, 1923.
Candies, Chocolate. E. Greenfield's Sons. 168,871; May 29; Serial No. 170,382; published Mar. 13, 1923.
Candy. Charter Chocolate Company. 168,794; May 29; Serial No. 141,557; published Mar. 6, 1923.
Candy. Crystal Candy Co. 168,579; May 29; Serial No. 162,872; published Feb. 20, 1923.
Candy. Friedman-Kerr Co. 168,606; May 29; Serial No. 168,714; published Feb. 13, 1923.
Candy. Grace Chocolate Company. 168,678; May 29; Serial No. 169,207; published Mar. 6, 1923.
Candy. Gurinian Candy Co. 168,555; May 29; Serial No. 161,248; published Feb. 13, 1923.
Candy. Lukis Candy Company. 168,546; May 29; Serial No. 158,683; published Mar. 6, 1923.
Candy. Palmer Candy Co. 168,821; May 29; Serial No. 170,152; published Mar. 13, 1923.
Candy. F. B. Washburn & Co. 168,609; May 29; Serial No. 168,863; published Feb. 13, 1923.
Candy and coconut-bar candy. Queen Anne Candy Company. 168,589; May 29; Serial No. 164,192; published Feb. 20, 1923.
Candy machinery. Vacuum Candy Machinery Co. 169,017; May 29.
Candy—namely, bar goods. Gurley Candy Company. 168,582; May 29; Serial No. 163,268; published Feb. 13, 1923.
Candles. West India Oil Company. 168,769; May 29; Serial No. 173,796; published Feb. 27, 1923.
Candles, liquid paraffin, lubricating oils and greases, Gasoline. Standard Oil Company. 168,756; May 29; Serial No. 171,664; published Feb. 13, 1923.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 168,640; May 29; Serial No. 165,389; published Mar. 6, 1923.
Canned clams. K. C. B. Cannery, Inc. 168,875; May 29; Serial No. 170,067; published Mar. 13, 1923.
Canned fruits. Banning Canning Co. 168,597; May 29; Serial No. 164,300; published Feb. 13, 1923.
Canned fruits. Olympia Canning Company. 168,615; May 29; Serial No. 169,082; published Mar. 6, 1923.
Canned fruits. Richmond-Chase Company. 168,812; May 29; Serial No. 170,036; published Mar. 13, 1923.
Canned fruits and vegetables. Kings County Packing Co. 168,598; May 29; Serial No. 168,420; published Feb. 13, 1923.
Canned fruits and vegetables. H. M. Newhall & Co. 168,691; May 29; Serial No. 169,770; published Feb. 27, 1923.
Canned fruits and vegetables. Wholesale Distributors Co. 168,538; May 29; Serial No. 157,464; published May 23, 1922.
Canned fruits and vegetables. Winters Canning Company. 168,591; May 29; Serial No. 164,570; published Mar. 6, 1923.
Canned fruit, vegetables, fish, and dried fruit. United States Products Corporation. 168,638; May 29; Serial No. 164,979; published Feb. 27, 1923.
Canned, kippered, smoked, and salted fish. Western California Fish Co. 168,636; May 29; Serial No. 168,395; published Feb. 20, 1923.
Canned olives. Mt. Ida Packing Company. 168,703; May 29; Serial No. 165,086; published Mar. 6, 1923.
Canned pineapple. Haiku Fruit & Packing Co. 168,680–1; May 29; Serial No. 169,241–2; published Feb. 27, 1923.
Canned pineapple. Haiku Fruit & Packing Co. 168,682–3; May 29; Serial No. 169,244–5; published Feb. 27, 1923.
Canned shrimp and oysters. Sea Food Co. 168,813; May 29; Serial No. 170,040; published Mar. 13, 1923.
Canned shrimp and oysters. Sea Food Co. 168,876; May 29; Serial No. 170,041; published Mar. 13, 1923.
Canned tomato paste. Atlantic Canning Co. 168,603; May 29; Serial No. 168,628; published Mar. 6, 1923.

Canned vegetables. Saco Valley Canning Co. 168,632; May 29; Serial No. 168,128; published Feb. 13, 1923.

Cans for coal oil and gasoline, Sheet-metal. Winfield Manufacturing Company. 168,588; May 29; Serial No. 164,139; published Mar. 13, 1923.

Cantaloupes, Fresh. Earl Fruit Company. 168,637; May 29; Serial No. 168,403; published Mar. 6, 1923.

Caps and soft hats. S. Goldstein. 168,656; May 29; Serial No. 166,449; published Feb. 20, 1923.

Caps, straw and felt hats and derbies, Men's. Sarnoff-Irving Hat Stores, Inc. 168,823; May 29; Serial No. 170,221; published Jan. 30, 1923.

Carpets, Wilton and plush. M. J. Whittall Associates. 168,885; May 29; Serial No. 167,063; published Mar. 13, 1923.

Cattle of stock farms, Live. Carnation Stock Farms. 168,862; May 29; Serial No. 172,795; published Mar. 13, 1923.

Cement and ice-can cement, Roof. Black Diamond Paint and Varnish Works. 169,011; May 29.

Cement, Portland. Security Cement & Lime Co. 168,650; May 29; Serial No. 165,762; published Feb. 13, 1923.

Chairs and sofas, Parlor. Paris Upholstering Co. 168,969; May 29; Serial No. 170,091; published Feb. 27, 1923.

Chemical composition for the removal of oils, paints, etc. Shellac Co. of New York. 168,737; May 29; Serial No. 172,689; published Mar. 13, 1923.

Chemical compounds. A. Bollerman. 169,025; May 29.

Chemicals, medicines, and pharmaceutical preparations. Chief Two Moon Herb Company. 168,844; May 29; Serial No. 170,868; published Feb. 13, 1923.

Chicks, Live. Kerr Chickeries Incorporated. 168,596; May 29; Serial No. 164,763; published Feb. 27, 1923.

Chocolates. Kibbe Brothers Company. 168,623–4; May 29; Serial No. 167,723–4; published Mar. 6, 1923.

Chocolates. Wisconsin Candy Co. 168,659; May 29; Serial No. 165,654; published Feb. 27, 1923.

Chocolates and candies. Paul Gelpi & Sons, Inc. 168,874; May 29; Serial No. 170,135; published Mar. 13, 1923.

Chocolates and candies. E. Greenfield's Sons. 168,826; May 29; Serial No. 170,386; published Mar. 13, 1923.

Chocolates and candies. E. Greenfield's Sons. 168,872; May 29; Serial No. 170,378; published Mar. 13, 1923.

Cigar and cigarette machinery and parts thereof. American Machine and Foundry Co. 168,740; May 29; Serial No. 171,197; published Feb. 27, 1923.

Cigars. H. de Cabanas y Carbajal. 168,631; May 29; Serial No. 168,112; published Feb. 13, 1923.

Cigars. Jacobstein Bros. 168,747; May 29; Serial No. 171,323; published Feb. 13, 1923.

Cigars, cheroots, cigarettes, smoking and chewing tobacco. Moss & Lowenhaupt Cigar Co. 168,755; May 29; Serial No. 171,649; published Feb. 13, 1923.

Cloth in the piece. William Hollins & Company. 168,674; May 29; Serial No. 146,509; published Feb. 27, 1923.

Coal. Reliance Coal Company. 168,979; May 29.

Coal. Southern Coal & Coke Co. 168,690; May 29; Serial No. 169,655; published Feb. 13, 1923.

Coal. Southern Coal & Coke Co. 168,689; May 29; Serial No. 169,653; published Feb. 13, 1923.

Coal and coke. Pennsylvania Coal & Coke Corporation. 168,748; May 29; Serial No. 171,384; published Feb. 13, 1923.

Coal and coke. Pennsylvania Coal & Coke Corporation. 168,749; May 29; Serial No. 171,386; published Feb. 13, 1923.

Coal tar and coke, Crude. Alabama By-Products Corporation. 168,562; May 29; Serial No. 166,626; published Jan. 9, 1923.

Cocoa. Stephen L. Bartlett Company. 168,778; May 29; Serial No. 111,076; published June 10, 1919.

Coffee. Bel-Jar Coffee Co. 168,586; May 29; Serial No. 163,915; published Feb. 27, 1923.

Coffee. G. B. Farrington Co. 168,828; May 29; Serial No. 170,479; published Mar. 13, 1923.

Coffee. Newmark Brothers. 168,541; May 29; Serial No. 158,137; published Mar. 6, 1923.

Coffee, canned vegetables, fruits, and fish, and evaporated milk. Amos-James Grocer Co. 168,877; May 27; Serial No. 169,997; published Mar. 13, 1923.

Confection, Fruit. C. A. Sanborn. 168,550; May 29; Serial No. 160,029; published Aug. 8. 1922.

Cooker, Steam-pressure. Henry A. Poppert & Son Company. 168,944; May 29; Serial No. 172,686; published Mar. 6, 1923.

Cords, twines, ropes, and lines of fiber material. Granite Cordage Company. 168,838; May 29; Serial No. 170,682; published Feb. 13, 1923.

Corduroys in the piece. John S. Boyd Co. 168,766; May 29; Serial No. 113,229; published Mar. 6, 1923.

Corsets. Strouse, Adler & Co. 168,630; May 29; Serial No. 167,952; published Jan. 30, 1923.

Corsets, waists, girdles, and corset combinations. Birdsey Somers Company. 168,622; May 29; Serial No. 167,507; published Jan. 30, 1923.

Costumes and skirts, Ladies'. Bradford Dyers' Association, Limited. 168,787; May 29; Serial No. 124,042; published Feb. 20, 1923.

Cotton piece goods. Klauber Bros. & Co. 168,850; May 29; Serial No. 174,246; published Mar. 6, 1923.

Cotton piece goods. J. C. Penney Company. 168,735; May 29; Serial No. 172,556; published Feb. 27, 1923.

Cotton piece goods. David Schwartz Company. 168,849; May 29; Serial No. 174,341; published Mar. 6, 1923.

Cotton, woolen, or silk piece goods. H. J. Cathcart. 168,677; May 29; Serial No. 143,983; published June 7, 1921.

Cough sirup. Moss & Money. 169,023; May 29.

Crackers or biscuits. Pennsylvania Baking Company. 168,924; May 29; Serial No. 123,139; published Oct. 5, 1920.

Cream in the form of a soap paste, Shaving. F. H. Gross. 168,617; May 29; Serial No. 169,167; published Feb. 13, 1923.

Cutlery. Union Cutlery Co. 168,642; May 29; Serial No. 165,514; published Feb. 20, 1923.

Cutlery of base metal, Certain kinds of. Premier Cutlery, Inc. 168,713; May 29; Serial No. 159,050; published Mar. 13, 1923.

Damper regulators. Kain & Aunger Company. 168,987; May 29.

Dental and engine stones and lathe wheels. Blue Island Specialty Company. 168,759; May 29; Serial No. 172,725; published Mar. 13, 1923.

Diapering in the piece. Forney & Co. 168,719; May 29; Serial No. 171,753; published Mar. 6, 1923.

Dishwashing machines. T. W. Simpson. 168,750; May 29; Serial No. 171,477; published Feb. 27, 1923.

Doll. S. Bouvet. 168,932; May 29; Serial No. 173,319; published Mar. 13, 1923.

Doll houses and furniture. G. A. Stetson. 168,929; May 29; Serial No. 173,791; published Mar. 13, 1923.

Draperies, Twill cotton. Pacific Mills. 168,986; May 29.

Dress shields. A. Stein & Company. 168,904; May 29; Serial No. 165,095; published Feb. 27, 1923.

Elastic webs. Geo. S. Colton Elastic Web Co. 168,922; May 29; Serial No. 144,801; published Mar. 13, 1923.

Electric-light fixtures and parts thereof, canopies. Service Electric Mfg. & Supply Co. 168,994; May 29.

Engines, Device for uniformly mixing the charge before exploding it in internal-combustion. P. S. Palmer Company. 168,720; May 29; Serial No. 171,764; published Feb. 27, 1923.

Engines, Drives and parts of drives for starters for. Eclipse Machine Company. 169,006; May 29.

Erasers, lead pencils, rubber bands, etc. American Lead Pencil Company. 168,708; May 29; Serial No. 154,425; published Mar. 13, 1923.

Extract used in the preparation of soft drinks. A. L. Voge. 168,949; May 29; Serial No. 172,405; published Mar. 13, 1923.

Extracts and flavorings for food purposes. Davies, Rose & Co. 168,601; May 29; Serial No. 168,456; published Mar. 6, 1923.

Fertilizer. Central Chemical Company. 168,753; May 29; Serial No. 171,526; published Mar. 13, 1923.

Flavoring extract. Southern Beverage Company. 168,704; May 29; Serial No. 163,949; published Mar. 6, 1923.

Flavors and flavoring extracts for soft drinks, Maltless. McCormick & Co. 168,556; May 29; Serial No. 161,786; published Feb. 13, 1923.

Floss, embroidery rope, yarns, and threads. Bernhard Ulmann Co. 169,036; May 29.

Flour, Self-rising. Noblesville Milling Co. 168,897; May 29; Serial No. 167,731; published Jan. 30, 1923.

Flue cleaners. L. W. Johnson. 168,752; May 29; Serial No. 171,497; published Feb. 20, 1923.

Fluorspar, Ground, lump, and gravel. Kentucky Fluor Spar Co. 168,754; May 29; Serial No. 171,541; published Feb. 13, 1923.

Food composed of dough and sausage cooked in patties, Article of. M. P. Miller. 168,633; May 29; Serial No. 168,161; published Mar. 6, 1923.

Food preparations of chocolate, sugar, and water, and cocoa, sugar, and water. H. B. Hunter Co. 168,569; May 29; Serial No. 166,885; published Feb. 20, 1923.

Fruit, Fresh deciduous. J. C. Knowles. 168,686; May 29; Serial No. 169,404; published Feb. 27, 1923.

Fruit, fresh vegetables, and cantaloupes, Fresh citrous and deciduous. Randolph Marketing Company. 168,581; May 29; Serial No. 162,953; published Feb. 20, 1923.

Fruits, Dried. California Prune and Apricot Growers, Inc. 168,564; May 29; Serial No. 166,650; published Feb. 27, 1923.

Fruits, Fresh citrous. R. Krasnow & Sons, Inc. 168,657; Serial No. 166,304; published Feb. 20, 1923.

Fruits, Fresh citrous. Chas. C. Oyler & Son. 168,878; May 29; Serial No. 169,863; published Mar. 13, 1923.

Fruits, Fresh citrous. H. C. Sullivan. 168,547; May 29; Serial No. 159,536; published Jan. 16, 1923.

Fruits, Fresh deciduous. Ivanhoe Fruit Association. 168,879; May 29; Serial No. 169,304; published Mar. 6, 1923.

Fruits, Fresh deciduous. H. W. Wood. 168,687; May 29; Serial No. 169,511; published Mar. 6, 1923.

Fruits, fresh tomatoes, celery, lettuce, etc., Fresh citrous. Manatee Fruit Co. 168,884; May 29; Serial No. 167,183; published Mar. 6, 1923.

Fruits, Processed dried. Vin-Sok Food Products Corporation. 168,693; May 29; Serial No. 169,792; published Mar. 6, 1923.

Fur skins. J. Becher. 168,626; May 29; Serial No. 167,762; published Feb. 13, 1923.

Furs, skins, and peltries. Gustave J. Fuerth & Co. 168,654; May 29; Serial No. 165,864; published Jan. 2, 1923.

Furniture. A. W. Anderson Corporation. 168,751; May 29; Serial No. 171,401; published Feb. 20, 1923.

Furniture. Cron Company. 168,899; May 29; Serial No. 167,041; published Feb. 27, 1923.

Furniture, Household. Bockstege Furniture Co. 169,014; May 29.

Garments and women's coats with fur trimming, Fur. Safchik & Company. 168,673; May 29; Serial No. 147,894; published Mar. 7, 1922.

Gasoline. Mutual Refining Company. 168,827; May 29; Serial No. 170,446; published Feb. 13, 1923.

Gasoline. Sierra Refining Company. 168,777; May 29; Serial No. 174,155; published Feb. 27, 1923.

Gelatin and ossein. Societé Chimique de l'Escaut. 168,716; May 29; Serial No. 163,005; published Mar. 13, 1923.

Germicidal solution. Sharpe-Philippi Co. 168,663; May 29; Serial No. 155,327; published Feb. 20, 1923.

Ginger ale. O. Price. 168,981; May 29.

Glassware, Illuminating. Gillinder & Sons, Inc. 168,776; May 29; Serial No. 174,133; published Mar. 6, 1923.

Gloves and mittens. Ellsworth & Thayer Mfg. Co. 169,030; May 29.

Gloves and mittens. Helmholz Mitten Company. 168,592; May 29; Serial No. 164,500; published Dec. 12, 1922.

Gloves, Fabric and leather. S. Blechman & Sons, Inc. 168,553; May 29; Serial No. 160,278; published Jan. 30, 1923.

Gloves, hosiery, and underwear, Fabric. S. I. Entwisle. 168,605; May 29; Serial No. 168,673; published Feb. 13, 1923.

Gloves, hosiery, and underwear for children. A. W. Nack. 168,594; May 29; Serial Nos. 164,660–1; published Feb. 13, 1923.

Golf clubs. Crawford McGregor & Canby Company. 168,958; May 29; Serial No. 171,614; published Mar. 13, 1923.

Grapes, Fresh. P. O. Clark. 168,587; May 29; Serial No. 164,101; published Feb. 20, 1923.

Hair combs, shoehorns, buttonhooks, and pincushions. E. I. du Pont de Némours & Company. 168,889; May 29; Serial No. 170,238; published Mar. 13, 1923.

Hair curlers, wavers, crimpers, and puffs. L. M. O'Connell. 168,927; May 29; Serial No. 174,098; published Mar. 13, 1923.

Hair goods. Hyman & Oppenheim. 168,934–5; May 29; Serial Nos. 173,286–7; published Mar. 13, 1923.

Hair nets. Wyman, Partridge & Co. 168,710; May 29; Serial No. 155,722; published Mar 13, 1923.

Hair saver and darkener. A. T. Silene. 168,839; May 29; Serial No. 170,697; published Feb. 13, 1923.

Hair shampoo, dandruff remover, hair tonic, and scalp cleanser. Security Drug Co. 168,834; May 29; Serial No. 170,550; published Feb. 13, 1923.

Hair tonic. E. Coretty. 169,022; May 29.

Hair tonics. Golden Ray Manufacturing Co. 168,843; May 29; Serial No. 170,816; published Feb. 13, 1923.

Hairpins, shoe laces, hair curlers, snap fasteners, etc. Zales Bros. 168,909; May 29; Serial No. 160,270; published Feb. 27, 1923.

Hammers. Stanley Works. 168,619; May 29; Serial No. 167,491; published Feb. 27, 1923.

Hams, bacon, lard, and sausage. Greenwald Packing Company. 168,804; May 29; Serial No. 157,150; published Mar. 6, 1923.

Handkerchiefs. Wyman, Partridge & Co. 168,578; May 29; Serial No. 162,861; published Mar. 6, 1923.

Harvesters, tractors, road graders, etc., Ensilage. Ronning Motor Company. 169,012; May 29.

Hats, caps, shoes, hose, etc. Alphen, Inc. 168,679; May 29; Serial No. 169,233; published Jan 9, 1923.

Headlights for automobiles, motor cycles, etc., Electric. R. W. Harris. 168,627; May, 29; Serial No. 167,773; published Feb. 13, 1923.

Hinges, bolts, latches, handles, etc. Stanley Works. 168,943; May 29; Serial No. 172,693; published Mar. 6, 1923.

Hinges, bolts, latches, handles, etc. Stanley Works. 168,947; May 29; Serial No. 172,563; published Mar. 6, 1923.

Horseshoes and horseshoe calks. Diamond Calk and Horseshoe Co. 168,676; May 29; Serial No. 144,607; published Feb. 27, 1923.

Hosiery. Dyx Hosiery Co. 168,639; May 29; Serial No. 165,021; published Feb. 13, 1923.

Hosiery. Falls City Mills Co. 168,554; May 29; Serial No. 160,492; published Dec. 12, 1922.

Hosiery. Richmond Hosiery Mills. 168,974–7; May 29.

Hosiery. Richmond Hosiery Mills. 168,983–5; May 29.

Hosiery. Richmond Hosiery Mills. 168,991–3; May 29.

Hospital sundries. H. L. Kaufmann. 168,796; May 29; Serial No. 142,345; published Dec. 19, 1922.

Hot-water bottles and bed warmers, Metal. Metal Goods Manufacturing Co. 168,781; May 29; Serial No. 172,280; published Mar. 13, 1923.

Humidors, Cigar and cigarette. G. Karp. 168,763; May 29; Serial No. 173,088; published Feb. 27, 1923.

Ice cream. Nissley Creamery Company. 168,548; May 29; Serial No. 158,995; published Mar. 6, 1923.

Ice cream and frozen-custard biscuit. F. Prestia. 168,558; May 29; Serial No. 166,468; published Feb. 27, 1923.

Ice cream, Chocolate-coated. Flynn Dairy Company. 168,540; May 29; Serial No. 157,763; published May 23, 1922.

Ice-cream mix. Troy Milk Products Company. 168,625; May 29; Serial No. 167,742; published Feb. 27, 1923.

Ice cream, sherbet, ices, and frozen dainties. B. B. Cutrer. 168,711; May 29; Serial No. 156,188; published Mar. 13, 1923.

Inks, Printing and lithographing. W. D. Wilson Printing Ink Co. 169,005; May 29.

Insecticide. W. C. Adams. 169,018; May 29.

Insecticide. Merck & Co. 168,836; May 29; Serial No. 170,590; published Feb. 13, 1923.

Insulating tape. Elkhart Rubber Works. 168,996; May 29.

Jellies, jams, etc., Powder used in making. Joy-Jel Company. 168,717; May 29; Serial No. 163,680; published Mar. 6, 1923.

Jewelry-cleaning outfit. Uklean Co. 168,964; May 29; Serial No. 171,237; published Mar. 6, 1923.

Journal, Agricultural. Curtis Publishing Company. 168,901; May 29; Serial No. 166,651; published Feb. 27, 1923.

Lace tips, Corset and shoe. Adjusto Shoe Lace Company. 168,670; May 29; Serial No. 152,303; published Jan. 9, 1923.

Laces, Shoe. C. T. Spiropulos. 169,027; May 29.

Lamp stands and bases, Electric. French Fibre Co. 168,549; May 29; Serial No. 159,748; published Feb. 20, 1923.

Laxatives and cathartics. Parke, Davis & Company. 168,830; May 29; Serial No. 170,503; published Feb. 13, 1923.

Leather. Endicott Johnson Corporation. 168,572; May 29; Serial No. 167,078; published Feb. 13, 1923.

Leather. Magnus Hessberg Inc. 168,575; May 29; Serial No. 167,174; published Feb. 13, 1923.

Linen and cotton piece goods, etc. Derryvale Linen Co. 168,743; May 29; Serial No. 171,260; published Mar. 6, 1923.

Linen and cotton piece goods, etc. Derryvale Linen Co. 168,869; May 29; Serial No. 171,261; published Mar. 13, 1923.

Linen, canvas, cotton, etc., piece goods. Lamport Export Company. 168,765; May 29; Serial No. 173,134; published Mar. 6, 1923.

Liquid circulators. N. E. McClelland. 168,628; May 29; Serial No. 167,825; published Feb. 27, 1923.

Liquid refinishing compound. E. B. Whitman. 168,727; May 29; Serial No. 171,973; published Feb. 27, 1923.

Machines and materials for mine working, Flat. 168,920; May 29; Serial No. 150,742; published Mar. 6, 1923.

Magazine, Monthly. E. Wray. 168,952; May 29; Serial No. 171,975; published Feb. 27, 1923.

Magazine published monthly. N. Tsukalas. 168,965; May 29; Serial No. 171,143; published Feb. 27, 1923.

Malt extracts. Malt-Diastase Company. 168,921; May 29; Serial No. 148,156; published Mar. 13, 1923.

Marmalade, Orange. E. G. Driffill. 168,651; May 29; Serial No. 165,784; published Feb. 13, 1923.

Matches. Nippon Match M'f'g Co. 168,545; May 29; Serial No. 158,488; published Mar. 6, 1923.

Mayonnaise dressing for foodstuffs. Eskay Products Company. 168,576; May 29; Serial No. 167,230; published Mar. 6, 1923.

Medicated mineral, Natural. Mineral-Tone Company. 168,837; May 29; Serial No. 170,660; published Feb. 13, 1923.

Medicine for blood, rheumatism, lumbago, and the nerves. O. H. Kyle. 168,570; May 29; Serial No. 166,888; published Feb. 20, 1923.

Medicinal preparation used as a physic. E. E. Hethcock. 168,822; May 29; Serial No. 170,191; published Feb. 20, 1923.

Medicinal tonics, General. W. C. Black. 168,563; May 29; Serial No. 166,632; published Feb. 20, 1923.

Metal, Babbitt. American Boron Products Co. 168,649; May 29; Serial No. 165,742; published Feb. 20, 1923.

Metals and alloys for use in jewelry. Marret, Bonnin, Lebel et Guieu. 168,886; May 29; Serial No. 170,301; published Mar. 13, 1923.

Milk and cream, Evaporated. W. B. Fair. 168,567–8; May 29; Serial Nos. 166,881–2; published Feb. 27, 1923.

Milk, Evaporated. National Dairy Company. 168,797; May 29; Serial No. 142,994; published Mar. 6, 1923.

Mints. H. W. Alexander, jr. 168,565; May 29; Serial No. 166,802; published Mar. 6, 1923.

Molasses. Boston Molasses Company. 168,543; May 29; Serial No. 158,212; published Feb. 27, 1923.

Motors, Gasoline-purifying instrumentalities for explosion. Deeks Motor Products, Incorporated. 168,940; May 29; Serial No. 172,866; published Mar. 6, 1923.

Nail emollient or polish. V. C. B. Lambert. 168,831; May 29; Serial No. 170,493; published Feb. 13, 1923.

Needles. J. Roberts. 168,887; May 29. Serial No. 170,257; published Feb. 27, 1923.

Newspaper periodical published weekly. Bronxonian Publishing Co. 168,959; May 29; Serial No. 171,611; published Feb. 27, 1923.

Newspaper, Section of a. Houston Chronicle Company. 168,890; May 29; Serial No. 169,676; published Feb. 27, 1923.
Nickel sheets, rods, etc. American Nickel Corporation. 168,968; May 29; Serial No. 170,802; published Mar. 6, 1923.
Nonskid chains, hooks, and parts thereof. Newhall Chain Forge & Iron Co. 168,908; May 29; Serial No. 160,897; published Mar. 6, 1923.
Noodles and alimentary paste products. John B. Canepa Company. 168,574; May 29; Serial No. 167,166; published Feb. 27, 1923.
Nuts. Colonial Novelty Co. 168,669; May 29; Serial No. 152,740; published Feb. 20, 1923.
Obstetrical outfits and surgical supplies. C. M. Manion. 168,629; May 29; Serial No. 167,881; published Feb. 27, 1923.
Oil and lubricating greases, Lubricating, Automobile, and machine. L. R. Carley. 168,714; May 29; Serial No. 160,587; published Mar. 13, 1923.
Oil, Antiseptic. F. C. Hottel. 168,646; May 29; Serial No. 165,682; published Feb. 20, 1923.
Oil flavored with olive oil, Vegetable. Strohmeyer & Arpe Company. 168,571; May 29; Serial No. 166,959; published Feb. 20, 1923.
Oil for insulating and cooling purposes, Mineral. Westinghouse Electric & Manufacturing Company. 168,882; May 29; Serial No. 167,963; published Mar. 13, 1923.
Oil for salad and cooking, Vegetable. American Cotton Oil Company. 168,644; May 29; Serial No. 165,575; published Feb. 20, 1923.
Oil, Olive. C. Basilea & Co. 168,612; May 29; Serial No. 168,912; published Feb. 13, 1923.
Oils and lubricants, Lubricating. B. G. Desmond Manufacturing Corporation. 168,846; May 29; Serial No. 173,074; published Mar. 27, 1923.
Oils, Fuel. Chemical Fuel Company of America. 168,661; May 23; Serial No. 155,549; published Feb. 27, 1923.
Oils, Lubricating. W. D. Cavanaugh. 168,600; May 29; Serial No. 168,440; published Feb. 27, 1923.
Oils, Lubricating. Gilmore Petroleum Company. 168,767–8; May 29; Serial Nos. 173,764–5; published Feb. 27, 1923.
Oils, Lubricating. Shell Company of California. 168,803; May 29; Serial No. 174,136; published Mar. 13, 1923.
Oils, Motor fuel. Chemical Fuel Company of America. 168,660; May 29; Serial No. 155,550; published Feb. 27, 1923.
Ointment, Antiseptic and healing. Eimer & Amend. 168,835; May 29; Serial No. 170,569; published Feb. 13, 1923.
Ointment, Prophylactic. W. S. Hughes. 168,845; May 29; Serial No. 170,885; published Feb. 13, 1923.
Oleaginous or unctuous food substances, Prepared fatty. Southern Cotton Oil Company. 168,645; May 29; Serial No. 165,605; published Feb. 27, 1923.
Oranges. Sanger Citrus Ass'n. 168,602; May 29; Serial No. 168,492; published Mar. 6, 1923.
Outfit packages containing soap and towel. Warren Soap Manufacturing Company. 168,807; May 29; Serial No. 169,939; published Feb. 13, 1923.
Packing, Asbestos rubber sheet. Walworth Manufacturing Company. 168,653; May 29; Serial No. 165,844; published Feb. 13, 1923.
Packings and washers, Engine. Chemische Werke Aktiengesellschaft Postlerit-Werke. 168,779; May 29; Serial No. 114,846; published Jan. 9, 1923.
Paint, Ready-mixed. W. B. Robeson. 168,817; May 29; Serial No. 170,089; published Feb. 27, 1923.
Paints. Titanium Pigment Company. 168,764; May 29; Serial No. 173,111; published Feb. 27, 1923.
Paints, etc. Barber Asphalt Paving Company. 168,635; May 29; Serial No. 168,350; published Feb. 27, 1923.
Paints, paint enamels, paint oils. Mound City Paint & Color Company. 168,866; May 29; Serial No. 172,170; published Mar. 13, 1923.
Paints, wall size, and wall-paint thinners, Ready-mixed wall. Sewall Paint & Glass Company. 168,728; May 29; Serial No. 172,186; published Feb. 27, 1923.
Paints, Water. Maxwell Paint Company. 168,733; May 29; Serial No. 172,338; published Mar. 13, 1923.
Palliative for rheumatism, itchings, skin diseases, etc. F. Gradisar. 168,820; May 29; Serial No. 170,134; published Feb. 20, 1923.
Paper and cloth, Gummed. Ideal Coated Paper Company. 168,672; May 29; Serial No. 149,704; published Mar. 6, 1923.
Paper and envelopes, Writing. Samuel Ward Manufacturing Co. 168,604; May 29; Serial No. 168,567; published Dec. 12, 1922.
Paper-bag holder or cabinet. American Rack Company. 168,840; May 29; Serial No. 170,747; published Feb. 27, 1923.
Paper bags. Hubbs & Corning Company. 168,726; May 29; Serial No. 171,845; published Feb. 27, 1923.
Paper, Cigarette. Sobrinos de R. Abad Santonja. 168,707; May 27; Serial No. 151,334; published Mar. 13, 1923.
Paper, correspondence envelopes, writing tablets, and papeteries, Writing. Mid West Paper & Envelope Co. 168,634; May 29; Serial No. 168,326; published Mar. 6, 1923.
Paper, envelopes, and lead pencils, Printing, wrapping, writing, etc. Tennessee Paper & Bag Co. 168,859–60; May 29; Serial No. 173,108–9; published Mar. 13, 1923.
Paper, envelopes, and lead pencils. Tennessee Paper & Bag Co. 168,861; May 29; Serial No. 172,809; published Mar. 13, 1923.
Paper, envelopes, bristol or card board, Writing. V. Vivaudou, Inc. 168,715; May 29; Serial No. 161,660; published Mar. 13, 1923.
Paper, envelopes, pens, pencils, etc., Writing. Calhoun, Robbins & Co. 168,863; May 29; Serial No. 172,206; published Mar. 6, 1923.
Paper for wrapping purposes, Kraft. Dudley Paper Co. 168,856; May 29; Serial No. 173,594; published Mar. 6, 1923.
Paper products. Brown Company. 168,705; May 29; Serial No. 129,373; published Mar. 6, 1923.
Paper, Toilet. Beaver Paper Company. 168,815; May 29; Serial No. 170,050; published Nov. 14, 1922.
Paper used for printing, writing, etc., and typewriting and mailing envelopes. Poland Paper Company. 168,851; May 29; Serial No. 174,099; published Mar. 6, 1923.
Paper, Writing. Derryvale Linen Co. 168,868; May 29; Serial No. 171,265; published Mar. 6, 1923.
Papers and cloth, Abrasive. Herman Behr & Company, Incorporated. 168,942; May 29; Serial No. 172,824; published Feb. 27, 1923.
Papers, Coated book. McLaurin-Jones Co. 168,699; May 29; Serial No. 166,894; published Mar. 6, 1923.
Parcel carrier. C. P. Atkins. 168,709; May 29; Serial No. 155,584; published Feb. 20, 1923.
Pass holders. Emil Weissbrod & Sons. 168,734; May 29; Serial No. 172,408; published Mar. 13, 1923.
Pastes, glues, and adhesives. Glucol Mfg. Co. 168,730; May 29; Serial No. 172,271; published Mar. 13, 1923.
Peanut butter. Nash Coffee Company. 169,026; May 29.
Pecans. S. G. Simons. 169,024; May 29.
Pencils. Eberhard Faber Pencil Company. 168,855; May 29; Serial No. 173,760; published Mar. 6, 1923.
Pens, Fountain. Salz Bros. Inc. 168,858; May 29; Serial No. 173,249; published Mar. 6, 1923.
Pens, penholders, fountain pens. Kabushiki-Kaisha Namiki Seisakujo. 168,867; May 29; Serial No. 171,368; published Mar. 13, 1923.
Perfume extract, toilet water, cleansing and vanishing cream. United Drug Company. 168,814; May 29; Serial No. 170,049; published Feb. 13, 1923.
Perfumes, toilet waters, face and talcum powder, face lotion, etc. Paul Prot & Cie. 168,816; May 29; Serial No. 170,083; published Feb. 13, 1923.
Periodical, Weekly. National Association of Hosiery and Underwear Manufacturers. 168,966; May 29; Serial No. 171,031; published Feb. 27, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 168,746; May 29; Serial No. 171,291; published Feb. 13, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 168,798; May 29; Serial No. 174,941; published Mar. 13, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 168,799; May 29; Serial No. 174,935; published Mar. 13, 1923.
Petticoat underdrawer. A. L. Vilander. 168,847; May 29; Serial No. 174,949; published Mar. 13, 1923.
Pharmaceutical preparation for prevention and correction of vaginitis, leucorrhea, etc. E. J. O'Connor. 168,739; May 29; Serial No. 170,948; published Feb. 13, 1923.
Photograph cards and other loose leaves, Binders for. Fales Folio Company. 168,881; May 29; Serial No. 168,211; published Mar. 13, 1923.
Pianos and player pianos. Lester Piano Company. 169,001; May 29.
Piece goods. Bradford Dyers' Association, Limited. 168,781–2; May 29; Serial No. 122,462–3; published Feb. 27, 1923.
Piece goods. Bradford Dyers' Association, Limited. 168,784; May 29; Serial No. 122,515; published Feb. 27, 1923.
Piece goods. Bradford Dyers' Association, Limited. 168,783; May 29; Serial No. 122,512; published Feb. 27, 1923.
Piece goods. Bradford Dyers' Association, Limited. 168,791; May 29; Serial No. 132,074; published Mar. 6, 1923.
Piece goods, etc. Derryvale Linen Co. 168,744; May 29; Serial No. 171,262; published Mar. 6, 1923.
Piece goods, etc. Derryvale Linen Co. 168,745; May 29; Serial No. 171,264; published Mar. 6, 1923.
Pigeons, squabs, or poultry, Live or dressed. J. M. Pun. 168,595; May 29; Serial No. 164,720; published Feb. 13, 1923.
Pin boards for use in textile industry. F. C. Washburn. 168,742; May 29; Serial No. 171,239; published Feb. 27, 1923.
Pins, Card, T, and bank. Guild Products Corporation. 168,903; May 29; Serial No. 165,543; published Mar. 13, 1923.
Pipe covering, prepared asbestos roofing, asbestos paper, and millboard. Johns-Manville Incorporated. 168,811; May 29; Serial No. 170,025; published Jan. 9, 1923.
Planers. Cincinnati Planer Company. 168,841; May 29; Serial No. 170,752; published Feb. 27, 1923.

Plaster. Plymouth Gypsum Co. 168,666; May 29; Serial No. 153,618; published Dec. 26, 1922.
Plaster. Plymouth Gypsum Co. 168,667; May 29; Serial No. 153,617; published Jan. 9, 1923.
Plaster and gypsum tile, Ground and calcined. Arizona Gypsum Plaster Co. 169,013; May 29.
Plaster base and sheathing. Mid-West Box Company. 168,607; May 29; Serial No. 168,777; published Jan. 9, 1923.
Plows, plowshares, moldboards, plowpoints, landsides, etc. Beecher & Gibbs Plow Company. 168,829; May 29; Serial No. 170,472; published Jan. 9, 1923.
Pocketknives. Fairfield Manufacturing Company. 168,989; May 29.
Polish for furniture, automobiles, etc. S. Schoener. 168,718; May 29; Serial No. 171,709; published Mar. 13, 1923.
Polish for polishing enameled, painted, or varnished surfaces. Sheldon Booth & Co. 168,736; May 29; Serial No. 172,636; published Mar. 13, 1923.
Polish, Stove. M. Reel. 168,804; May 29; Serial No. 168,789; published Feb. 27, 1923.
Polishes and metal polishes, Stove. Black-Iron Stove Polish Co. 168,962; May 29; Serial No. 171,298; published Mar. 13, 1923.
Pongee, Silk. J. A. Finn & Co. 168,539; May 29; Serial No. 157,561; published Feb. 27, 1923.
Potatoes, Fresh. Twin Falls County Potato Growers Inc. 168,818; May 29; Serial No. 170,103; published Mar. 13, 1923.
Powder, Antiseptic and astringent. M. Cohen. 168,832; May 29; Serial No. 170,519; published Feb. 13, 1923.
Powder, Talcum. Merck & Co. 168,809; May 29; Serial No. 169,980; published Feb. 13, 1923.
Powders and creams, perfumes, toilet waters, rouges, etc., Face. A. Winarick. 168,573; May 29; Serial No. 167,153; published Feb. 13, 1923.
Preparation, Alcohol rubbing and bathing. W. & H. Walker, Inc. 168,621; May 29; Serial No. 167,500; published Feb. 13, 1923.
Preparation for cleaning fresco, oilcloth, enamels, varnishes, etc. A. F. Hedberg. 168,618; May 29; Serial No. 167,465; published Feb. 13, 1923.
Preparation for mixing with printing ink to give body thereto. H. Auld. 169,015; May 29.
Printed advertising matter. F. M. Berkley. 168,919; May 29; Serial No. 151,197; published Feb. 27, 1923.
Printed matter. F. M. Berkley. 168,918; May 29; Serial No. 151,198; published Feb. 27, 1923.
Propellers, Boat. G. W. Morrow. 169,019; May 29.
Publication in magazine form, Title of a monthly. E. A. Bertrand. 168,973; May 29; Serial No. 159,684; published Feb. 27, 1923.
Publication, Monthly. Allen T. Smith and George F. Case. 168,957; May 29; Serial No. 171,661; published Feb. 27, 1923.
Publication, Monthly. Successful Farming Publishing Co. 168,895; May 29; Serial No. 168,436; published Feb. 27, 1923.
Publication, Section of a daily. R. F. Couch. 168,925; May 29; Serial No. 175,545; published Mar. 27, 1923.
Putty. Baker Paint & Varnish Co. 169,032; May 29.
Radio receiving sets. Edwards & Company. 168,643; May 29; Serial No. 165,533; published Feb. 20, 1923.
Radio receiving sets and parts thereof. Union Construction Company. 168,757; May 29; Serial No. 171,671; published Feb. 20, 1923.
Radio telegraph and telephone apparatus and appliances. C. M. Kemper. 168,806; May 29; Serial No. 169,909; published Feb. 20, 1923.
Radiotelephone receivers and radio sets and parts of radio sets. Triangle Electro Trading Co. 169,000; May 29.
Rail anchors or anticreepers. P. & M. Company. 169,002–3; May 29.
Ranges, Electric. F. M. Eldredge. 168,721; May 29; Serial No. 171,788; published Feb. 13, 1923.
Razor blades, Manual holder for. Greist Mfg. Company. 168,917; May 29; Serial No. 152,748; published Mar. 6, 1923.
Razor strops. Strevell-Paterson Hardware Co. 168,911; May 29; Serial No. 157,450; published Feb. 27, 1923.
Razors. Arrowhead Trading Corporation. 168,892; May 29; Serial No. 169,471; published Mar. 6, 1923.
Razors, clippers, scissors, tools, and parts thereof. M. Jung. 168,652; May 29; Serial No. 165,794; published Feb. 27, 1923.
Razors, hair clippers, etc. Max Dörner G. m. b. H. 168,995; May 29; Serial No. 164,803; published Mar. 6, 1923.
Razors, knives, shears, and tools. Wm. Langbein & Bros. 168,902; May 29; Serial No. 166,528; published Mar. 6, 1923.
Reamers. Frank O. Wells Company. 169,009; May 29.
Reflectors, Color screen and holder attachment for. Reflector & Illuminating Co. 168,995; May 29.
Refrigerators. American Range & Foundry Company. 168,857; May 29; Serial No. 173,549; published Mar. 6, 1923.
Relish, piccalilli, Russian and salad dressings, etc., Spiced India. Daintymaid Co. 168,641; May 29; Serial No. 165,484; published Feb. 27, 1923.
Remedy for chlorosis, malnutrition, anæmia, etc. M. J. Breitenbach Company. 168,593; May 29; Serial No. 164,580; published Feb. 13, 1923.
Remedy for mixed infection, swine plague, or flu, Hog. W. P. Van Gilder and S. E. Ward. 168,620; May 29; Serial No. 167,495; published Feb. 13, 1923.
Remedy for seasickness, Medicinal. W. Jones & Co. 168,724; May 29; Serial No. 171,804; published Feb. 20, 1923.
Review, Quarterly. Council on Foreign Relations, Inc. 168,893; May 29; Serial No. 169,348; published Mar. 6, 1923.
Ribbons, towels and toweling, tapestry, and piece goods. Bernhard Ulmann Co. 169,035; May 29.
Rings, Finger. A. E. Johnson. 169,033; May 29.
Rope, cord, and twine. American Manufacturing Company. 168,701; May 29; Serial No. 166,547; published Mar. 13, 1923.
Rubber, Chemical composition to assist vulcanizing of. Vul Ko Cene Co. 168,808; May 29; Serial No. 169,940; published Feb. 13, 1923.
Rubber goods. R. B. Hansen. 169,016; May 29.
Salts for metal heat-treating baths. Bellis Heat Treating Company. 168,842; May 29; Serial No. 170,749; published Feb. 13, 1923.
Salve for piles. R. B. Heed. 168,697; May 29; Serial No. 169,810; published Feb. 13, 1923.
Sanitary napkins. New York Merchandise Company. 168,800; May 29; Serial No. 174,795; published Mar. 13, 1923.
Sardines. Henriques Brothers Limited. 168,590; May 29; Serial No. 164,434; published Feb. 13, 1923.
Sateen in the piece, Shadow-stripe cotton. Bedford Mills, Inc. 168,852; May 29; Serial No. 174,059; published Mar. 6, 1923.
Sausages. Purity Packing Company. 168,688; May 29; Serial No. 169,560; published Feb. 27, 1923.
Scissors, shears, razor blades, pocket, etc., knives. K. C. Seelbach Company. 168,725; May 29; Serial No. 171,819; published Feb. 27, 1923.
Screw drivers. H. D. Smith & Company. 168,967; May 29; Serial No. 170,903; published Mar. 6, 1923.
Sewing boxes and tailor trays. J. A. Witt. 168,608; May 29; Serial No. 168,818; published Feb. 27, 1923.
Shade cloth, Window-. Chemitex Products Company. 168,584; May 29; Serial No. 163,434; published Mar. 6, 1923.
Shellacs, varnishes, etc., Prepared. Shellac Co. of New York. 168,758; May 29; Serial No. 172,690; published Mar. 13, 1923.
Shoe-cleaning fluids. D. H. Weinstein. 168,864; May 29; Serial No. 172,138; published Mar. 6, 1923.
Shovels, drag-line excavators, etc., Power. Bucyrus Company. 168,961; May 29; Serial No. 171,443; published Mar. 6, 1923.
Shirts, Work. A. M. Robinson Company. 168,542; May 29; Serial No. 158,155; published Oct. 17, 1922.
Sidings, baseboards, window casings, and moldings. Star Wood Products Company. 168,712; May 29; Serial No. 158,493; published Feb. 20, 1923.
Silk and rumie piece goods, Combination of. H. G. Warland. 168,762; May 29; Serial No. 173,060; published Mar. 6, 1923.
Silk crêpe piece goods. Zollinger and Schroth, Inc. 168,770; May 29; Serial No. 173,869; published Mar. 6, 1923.
Silk fabrics in the piece. J. H. & C. K. Eagle, Inc. 168,706; May 29; Serial No. 151,154; published Mar. 13, 1923.
Silk piece goods. Golding Fabrics Corporation. 168,870; May 29; Serial No. 170,647; published Mar. 13, 1923.
Silk piece goods. H. R. Mallinson & Co. Inc. 168,760; May 29; Serial No. 172,754; published Mar. 6, 1923.
Silk piece goods. H. R. Mallinson & Co. 168,761; May 29; Serial No. 172,756; published Feb. 13, 1923.
Silks in the piece. Jansen & Pretzfeld, Inc. 168,773; May 29; Serial No. 173,966; published Mar. 6, 1923.
Sirup made from cane and maple sugar. Vermont Maple Syrup Company. 168,655; May 29; Serial No. 166,117; published Mar. 6, 1923.
Sirups for soft drinks, Nonalcoholic, maltless flavoring. Walker Bros. Co. 168,936; May 29; Serial No. 173,262; published Mar. 13, 1923.
Sirups, Table. Hardaway-Cargill Co. 168,566; May 29; Serial No. 166,830; published Feb. 20, 1923.
Slippers made wholly or in part of felt. Lucille Felt Slipper Co. 168,658; May 29; Serial No. 156,007; published Feb. 27, 1923.
Snap fasteners. Carson Pirie Scott & Co. 168,939; May 29; Serial No. 172,961; published Mar. 13, 1923.
Soap. Le Blume Import Co. 168,907; May 29; Serial No. 163,313; published Mar. 6, 1923.
Soap. R. B. Meyer. 169,034; May 29.
Soap. Northern Jobbing Company. 168,900; May 29; Serial No. 160,900; published Feb. 27, 1923.
Soap. Remmers Soap Company. 168,960; May 23; Serial No. 171,589; published Mar. 6, 1923.
Soap. Soap Manufacturing Company. 168,913; May 29; Serial No. 156,026; published Mar. 13, 1923.
Soap. Young & Wile, Ltd. 168,951; May 29; Serial No. 172,252; published Mar. 6, 1923.
Soap, Automobile. H. R. Nicholson. 168,933; May 29; Serial No. 173,292; published Mar. 13, 1923.

Soap, Hand. W. J. Popp. 168,599; May 29; Serial No. 168,430; published Feb. 13, 1923.
Soap, Toilet. Cudahy Packing Company. 168,896; May 29; Serial No. 168,146; published Feb. 27, 1923.
Soaps. F. G. Burke. 168,954–5; May 29; Serial No. 171,684–5; published Mar. 6, 1923.
Soaps and perfumes, Odoriferous products for use in the production of. Morana, Incorporated. 168,833; May 29; Serial No. 170,533; published Feb. 13, 1923.
Soaps, wool-scouring powder, etc. Mineral Soap Manufacturing Company. 168,914; May 29; Serial No. 155,764; published Mar. 6, 1923.
Spaghetti sauce and dressing. Molinelli Italian Dinners, Inc. 168,999; May 29.
Spices. Price Flavoring Extract Company. 168,695–6; May 29; Serial No. 169,865–6; published Mar. 13, 1923.
Statements, checks, billheads, purchase orders, etc. Fort Dearborn Engraving Co. 168,698; May 29; Serial No. 166,943; published Mar. 6, 1923.
Steel wool for cleaning and polishing purposes. Brillo Manufacturing Company. 168,938; May 29; Serial No. 173,070; published Mar. 6, 1923.
Stone and composition for making same, Artificial. L. D. Harter. 168,662; May 29; Serial No. 155,497; published May 16, 1922.
Stump pullers and winches. K. Pulling Machine Company. 168,684; May 29; Serial No. 169,307; published Feb. 20, 1923.
Sugar, gelatin, and fruit-acid compound. Miles Manufacturing Company. 168,675; May 29; Serial No. 146,180; published Oct. 4, 1921.
Suits and topcoats, Boys'. Kids Nobby Klothes, Inc. 168,551; May 29; Serial No. 160,067; published Feb. 27, 1923.
Suits for children, One-piece. S & S Shirt Company. 168,988; May 29.
Sweater coats, jerseys, jersey coats, bathing suits, etc. S. Augstein & Co. 169,792; May 29; Serial No. 134,741; published Feb. 8, 1921.
Sweaters, scarfs, outer shirts and vests, shawls, etc. F. E. Strobmeier. 168,616; May 29; Serial No. 169,092; published Feb. 13, 1923.
Tables, Household. S. Y. Sullivan. 168,910; May 29; Serial No. 159,292; published Mar. 6, 1923.
Tablets, Antiseptic. S. P. Ritter. 168,692; May 29; Serial No. 169,780; published Feb. 13, 1923.
Tablets, Laxative. C. G. Alley. 168,694; May 29; Serial No. 169,796; published Feb. 13, 1923.
Tablets, Writing. Reynolds & Reynolds Co. 168,853; May 29; Serial No. 173,555; published Mar. 6, 1923.
Taps and dies. Frank O. Wells Company. 169,007; May 29.
Teakettles. Griswold Manufacturing Company. 168,953; May 29; Serial No. 172,155; published Mar. 6, 1923.
Teething rings, combined baby rattles and teething rings. Louis Sametz, Inc. 168,810; May 29; Serial No. 169,986; published Feb. 13, 1923.
Telegraph relays, electric bells, buzzers, etc. Signal Electric Manufacturing Co. 169,020; May 29.
Telephone receivers, Electrical. Metropolitan Radio Corporation. 168,647; May 29; Serial No. 165,699; published Feb. 13, 1923.
Threads, Pure and artificial silk. H. K. H. Silk Co. 168,854; May 29; Serial No. 173,766; published Mar. 6, 1923.
Tires, Automobile. Central Automobile Tire Company. 169,031; May 29.
Tires, Casings and tubes of pneumatic. Aladdin Tire Corporation. 168,819; May 29; Serial No. 170,109; published Feb. 13, 1923.
Tires, inner tubes, tire covers, etc. A. L. Hunt. 168,790; May 29; Serial No. 131,214; published June 20, 1922.
Tires, Patch for. O. K. Patch Company. 168,544; May 29; Serial No. 158,579; published Nov. 14, 1922.
Tobacco and the products for smoking and chewing, Leaf. J. H. Cooper. 168,928; May 29; Serial No. 173,914; published Mar. 13, 1923.
Toilet articles. P. I. du Pont de Nemours & Company. 168,824; May 29; Serial No. 170,236; published Feb. 13, 1923.
Toilet preparations. Paris Toilet Company. 168,789; May 29; Serial No. 130,056; published Dec. 28, 1920.
Tomato sauce. Edson Bros. 168,880; May 29; Serial No. 169,230; published Mar. 6, 1923.
Tomatoes, Fresh. Union Celery Company. 168,702; May 29; Serial No. 166,486; published Mar. 6, 1923.
Tools adapted for general use. L. Wise. 168,671; May 29; Serial No. 151,968; published Feb. 27, 1923.
Toy banks. Thrift Selling Service Co. 168,926; May 29; Serial No. 174,496; published Mar. 13, 1923.
Toy vehicles. Automotive Toy Kraft Company. 168,980; May 29.
Toys and novelties. Horton Studios, Inc. 168,805; May 29; Serial No. 157,034; published Feb. 20, 1923.
Toys and plaything. Kämmer & Reinhardt. A. G. 168,614; May 29; Serial No. 168,927; published Feb. 13, 1923.
Tractors, traction engines, harvesters, etc. Holt Manufacturing Company. 168,937; May 29; Serial No. 173,234; published Mar. 6, 1923.
Trucks, Automobile. Federal Motor Truck Company. 168,613; May 29; Serial No. 168,924; published Feb. 20, 1923.
Tube carrier systems and parts thereof, Pneumatic. Standard Carrier Company. 168,923; May 29; Serial No. 143,711; published Mar. 13, 1923.
Undergarments, Children's. Kaynee Company. 168,788; May 29; Serial No. 126,220; published Feb. 13, 1923.
Valves. D. T. Williams Valve Company. 168,945–6; May 29; Serial Nos. 172,567–8; published Mar. 6, 1923.
Valves and fittings, Drop-forged steel. Henry Vogt Machine Co. 168,898; May 29; Serial No. 167,590; published Mar. 13, 1923.
Valves and thermostatic controlling or operating means and parts of same. Yoder Thomas Mfg. Co. 168,956; May 29; Serial No. 171,678; published Mar. 6, 1923.
Varnishes, lacquers, paints, etc. Tetralin-Gesellschaft mit beschrankter Haftung. 168,795; May 29; Serial No. 142,043; published Sept. 26, 1923.
Vegetables, fruits, etc., Fresh. Withers Brothers. 168,648; May 29; Serial No. 165,735; published Mar. 6, 1923.
Velvets in the piece, Silk and silk and cotton. Coudurier Fructus & Descher. 168,801; May 29; Serial No. 174,357; published Mar. 6, 1923.
Vinegar. Wayne County Produce Co. 168,577; May 29; Serial No. 167,441; published Mar. 6, 1923.
Vinegar, Fermented cider. Monroe Cider Vinegar & Fruit Co. 168,873; May 29; Serial No. 170,149; published Mar. 13, 1923.
Vinegar, White distilled. O. L. Gregory Vinegar Co. 169,029; May 29.
Washing fluid. Fluid Chemical Company. 168,865; May 29; Serial No. 166,794; published Mar. 6, 1923.
Washing powder. Nubright Company. 168,738; May 29; Serial No. 170,893; published Feb. 13, 1923.
Waxes and wax stains. Continental Chemical Corporation. 168,771; May 29; Serial No. 173,913; published Feb. 27, 1923.
Weather strips, Metal. F. W. Kammerer. 169,010; May 29.
Whistles, Steam. J. Kropacz. 168,580; May 29; Serial No. 162,934; published Feb. 20, 1923.
Wines. E. Sauza. 168,906; May 29; Serial No. 163,417; published Mar. 13, 1923.
Woolen piece goods. Forstmann & Huffmann Company. 168,772; May 29; Serial No. 173,962; published Mar. 6, 1923.
Woolen piece goods. Worumbo Manufacturing Company. 168,848; May 29; Serial No. 174,375; published Mar. 6, 1923.
Wrenches, pliers, hammers, etc. Herbrand Company. 168,970; May 29; Serial No. 170,649; published Mar. 6, 1923.
X-ray screens. Patterson Screen Co. 168,997–8; May 29.
Yarns spun of silk, artificial silk, and mixtures thereof. New England Spun Silk Corporation. 168,774–5; May 29; Serial Nos. 173,976–7; published Mar. 6, 1923.

ALPHABETICAL LIST OF LABELS.

A-can-s. For a Can of Tire Patch. V M S Co. 26,037; May 29.
Absorbine. Jr. The Antiseptic Liniment. For Liniment. W. F. Young, Inc. 26,040; May 29.
Albany. For Blackberries. G. H. Bradt. 26,000; May 29.
American Wood Cement Compound. For Semipaste Compound for Filling Defects in Furniture. American Manufacturing Co. 25,993; May 29.
Apex Chocolates. For Chocolates. Apex Chocolate Company. 25,994; May 29.
Bestovall. For Metal Polish. Bestovall Co. 25,997; May 29.
"Black Leaf 40" Nicotine Sulphate. For Bottles Containing Nicotine Sulphate for Spraying Purposes. Tobacco By-Products & Chemical Corporation. 26,035; May 29.
Blue Diamond Service. For Lime Putty. Blue Diamond Materials Company. 25,998; May 29.
Chocolate Covered Sun-Maid Raisins. For Raisins, Chocolate Covered. Elmer Candy Co. 26,006; May 29.
Everwear Hosiery. For Hosiery. Milwaukee Paper Box Company. 26,031; May 29.
Flor de Mehlhop. For Cigars. J. Kerns. 26,028; May 29.
Foursome-Match Score Card. For Friction Matches. R. L. Combs. 26,003; May 29.
Freeman's Dust Absorber. For a Preparation for Absorbing Dust from Polished Surfaces. Freeman Dust Absorber Mfg. Co. 26,009; May 29.
Glen's. For Liver Capsules. G. S. Johnson. 26,025; May 29.
Hoffmann's Finest Quality. For Apricots. John Hoffmann & Sons Co. 26,015; May 29.
Hoffmann's Finest Quality. For Coffee. John Hoffmann & Sons Co. 26,017; May 29.
Hoffmann's Finest Quality. For Cornstarch. John Hoffmann & Sons Co. 26,021; May 29.
Hoffmann's Finest Quality. For Currants. John Hoffmann & Sons Co. 26,010; May 29.
Hoffmann's Finest Quality. For Evaporated Milk. John Hoffmann & Sons Co. 26,020; May 29.
Hoffman's Finest Quality. For Gloss Starch. John Hoffmann & Sons Co. 26,022; May 29.
Hoffmann's Finest Quality. For Horse-Radish. John Hoffmann & Sons Co. 26,013; May 29.
Hoffmann's Finest Quality. For Macaroni. John Hoffmann & Sons Co. 26,019; May 29.
Hoffmann's Finest Quality. For Peas. John Hoffmann & Sons Co. 26,016; May 29.
Hoffmann's Finest Quality. For Rolled Oats. John Hoffmann & Sons Co. 26,014; May 29.
Hoffmann's Finest Quality. For Shrimp. John Hoffmann & Sons Co. 26,012; May 29.
Hoffmann's Finest Quality. For Sugar. John Hoffmann & Sons Co. 26,011; May 29.
Hoffmann's Finest Quality. For Tea. John Hoffmann & Sons Co. 26,018; May 29.
Hoye's Holly Champagne. For Beverages. S. M. Hoye. 26,023; May 29.
Hygiène De La Tête. For Hair Tonics. Imperial Perfumery and Barber's Supplies Inc. 26,024; May 29.
Instant Coffeola. For Coffeelike Beverages. Kellogg Company. 26,026; May 29.
Mah Jonge. For Candy. J. G. McDonald Chocolate Co. 26,030; May 29.

Mammy's Sure-Fat. For Medicine. D. E. Locke. 26,029; May 29.
Miracle Hair Net. For Envelopes for Hair Nets. Crown Hair Goods Co. 26,004; May 29.
Mole Poblano. For a Mixture of Dried Chili and Spices. P. Baca. 25,996; May 29.
Muenchner Brand Malt Extract. For Malt Extracts and Sirups. F. Muench. 26,032; May 29.
Original Weinger's Best Look For The Name Of S. Weinger On Every Carton. For Cartons Containing Eggs. S. Weinger. 26,038; May 29.
Pack-O Whipped Cream. For Whipped Cream. C. Seidler; 26,034; May 29.
Pipian Ranchero. For a Mixture of Dried Chili, Spices, and Cereals. P. Baca. 25,995; May 29.
Puget Sound. For Blackberries. G. H. Bradt. 26,002; May 29.
Puyallup. For Red Raspberries. G. H. Bradt. 25,999; May 29.
Sinclairs. For Cigars. J. Kerns. 26,027; May 29.
Sumner. For Blackberries. G. H. Bradt. 26,001; May 29.
Tedello. For Cigars. Delphia Cigar Co. 26,005; May 29.
Toscani Marca Avanti. For Cigars. Petri Cigar Co. 26,033; May 29.
Trio. For Dandruff Remover. Trio Laboratories. 26,036; May 29.
Vieux Carré Souvenir Package. For Candies. Elmer Candy Co. 26,007; May 29.
Watchman. For Cigars. Celestino Fernandez & Co. 26,008; May 29.
Welch's Grapelade. For Welch's Grapelade. Welch Grape Juice Company. 26,039; May 29.

ALPHABETICAL LIST OF PRINTS.

Attract the Eye to Make Folks Buy. For Soap. James S. Kirk & Company. 6,737; May 29.
Closing Out Factory Pianos. For Pianos of All Kinds. Boston Piano Company. 6,732; May 29.
Color Certainteed. For Dyeing of Yarn, Fabric, and Garments. "S. & M." Dye Works, Inc. 6,740; May 29.
Happy Home Apron Dresses. For Aprons and Dresses. Sterling Company. 6,741; May 29.
Hurley Gripsem G/A Arch Shoe. For Shoes. Hurley Shoe Co. 6,736; May 29.
Kirk's Cocoa Hardwater Castile. For Soap. James S. Kirk & Company. 6,739; May 29.
Makes the Feet Feel Fine. For Foot Powders for Foot Baths. C. G. Boyd. 6,734; May 29.
Mr. Beaded Tip. For Beaded-Tip Shoe Lacings. United Lace & Braid Manufacturing Co. 6,743; May 29.
Passed By The Board of Censors. For Wheat Breakfast Food. Cream of Wheat Co. 6,735; May 29.
Permanent Wave Effect Now Quick, Cheap and Easy. For Curling Fluid. M. Sullivan. 6,742; May 29.
Specially Designed for Special Sales. For Soap. James S. Kirk & Company. 6,738; May 29.
They Know Why They Prefer "B. V. D.". For Athletic Underwear. B. V. D. Company. 6,731; May 29.
Venus Pencils. For Lead Pencils. American Lead Pencil Company. 6,730; May 29.
You Can Wear Smaller Size Shoes. For Foot Powders for Foot Baths. C. G. Boyd. 6,733; May 29.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acetylsalicylic acid. Smith, Kline & French Co. 175,168; May 29.
Advertising devices. H. Goldman. 169,014; May 29.
Agricultural machinery and implements, Repair parts for. Henry & Allen. 175,790; May 29.
Almond paste, blanched peanuts, etc. National Almond Products Co. 155,513; May 29.
Ant mats and containers. Plenge's Pharmacy Inc. 166,605; May 29.
Antiseptic dressings, gauzes, cottons, and bandages. Deane Plaster Co. 175,347; May 29.
Apples, Fresh. Earl Fruit Company of The Northwest. 177,282; May 29.
Arc and electric welding goggles. William C. Adams Co. 176,436; May 29.
Asphalt. Kentucky Rock Asphalt Co. 178,047; May 29.
Automobile and carriage fabric, Waterproof. F. S. Carr Company. 177,273; May 29.
Automobile bumper. J. M. Hays Wood Products Company, Division of Standard Crate & Filler Company. 172,629; May 29.
Balls and clubs, Golf. J. R. McMullen. 177,503; May 29.
Balls, Golf. Jordan Marsh Company. 178,923; May 29.
Balls, Golf. Morris Golf Ball Manufacturing Company. 177,098; May 29.
Baseballs, bats, masks, etc. Alphen, Inc. 169,232; May 29.
Batteries, Storage. White Cap Battery Mfg. Co. 177,157; May 29.
Beef, Fresh. Detroit Packing Company. 166,658; May 29.
Belting, hose, packing, etc., Woven. Wm. E. Hooper & Sons Co. 168,152; May 29.
Beverage sold as a soft drink. Okla-Cola Company. 174,797; May 29.
Beverage sold as a soft drink and sirups and extracts for making same. California Alfalfa Products Company. 175,209; May 29.
Beverages sold as soft drinks and sirups for making same Mouquin Restaurant and Wine Company. 176,686; May 29.
Beverages sold as soft drinks and sirups for making same. Westchester Bottling Works. 176,700; May 29.
Bismuth in camphorated solution, Oxyiodide of. F. Lehnhoff-Wyld. 175,901; May 29.
Bismuth in camphorated solution, Oxychloride of. F. Lehnhoff-Wyld. 175,902; May 29.
Bookcases, beds, buffets, etc. Gladding Dry Goods Co. 158,829; May 29.
Boxes, Miter. Goodell-Pratt Company. 176,893; May 29.
Cabbage, Pickled. Block-Zimmerman & Company. 173,226; May 29.
Candies. Quaker City Chocolate & Confectionery Company. 174,487; May 29.
Candy. G. W. Chase and Son Mercantile Co. 176,787; May 29.
Candy. Chocolate Products Company. 174,890; May 29.
Candy kisses. H. E. Ballance. 170,266; May 29.
Canned corn and succotash. Burnham & Morrill Company. 177,357; May 29.
Canned fruits and vegetables, coffee, tea, and prepared mustard. A. Kickbusch Grocery Company. 177,387; May 29.
Canned vegetables. Frederick City Packing Company. 177,372; May 29.
Canopies, Metal fixture. G. W. Conner. 174,234; May 29.
Cans made of tin. Southern Can Company. 178,477; May 29.
Cards, Playing. Russell Playing Card Co. 175,948; May 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cement packing for joints. Polygon Products Co. 177,514; May 29.
Chains, pendants, finger rings, etc. Spear & Susskind. 175,818; May 29.
Chemical fungicide. Stauffer Chemical Company. 175,820; May 29.
Chemical preparation for facilitating the scalding etc., of hogs. B. Heller & Company. 171,756; May 29.
Chemical preparations for the treatment of face, scalp, and hair troubles. Wellson Specialty Company. 174,224; May 29.
Chocolate. Ideal Cocoa & Chocolate Co. 174,783; May 29.
Chocolate coating. Ideal Cocoa & Chocolate Co. 174,741; May 29.
Chocolate coating. Ideal Cocoa & Chocolate Co. 174,781–2; May 29.
Cigars. W. F. Clegg. 174,195; May 29.
Cigars. Gene-Vali Cigar Co. 163,677; May 29.
Cigars. S. Rodriguez. 178,869; May 29.
Cigars. I. Yereshefsky. 175,494; May 29.
Cleaning powder. P. Tump. 174,644; May 29.
Cleaning systems, Dry-. S. F. Bowser and Company. 177,068; May 29.
Clothes, Men's and women's sport. H. G. Warland. 173,457; May 29.
Coal. Rock Lick Smokeless Coal Company. 174,977; May 29.
Coats, cloaks, suits, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. 173,676; May 29.
Coats, Infants'. Federal Underwear Co. 171,837; May 29.
Coffee. Arbuckle Brothers. 177,348; May 29.
Coffee. Klauber Wangenheim Co. 176,896; May 29.
Combs and barrettes. Pacific Novelty Company. 176,851; May 29.
Compacts for face powder. Lowell Company. 175,667; May 29.
Containers and shooks therefor, Wooden. California Barrel Co. 176,946; May 29.
Corsets. F. P. Hoy, Inc. 169,972; May 29.
Corsets. La Resista Corset Company. 167,004; May 29.
Cotton gins and cotton-gin machinery. Murray Company. 176,419; May 29.
Cotton piece goods. Bert Levi & Co. 177,133; May 29.
Cotton pongee in the piece, Mercerized. Murray Trading Co. 176,908; May 29.
Cream, complexion and face powders, tooth paste, etc., Cold. J. W. Lowrance. 171,427; May 29.
Creams for freckles. J. B. Bereman. 173,318; May 29.
Creams, lotions, toilet waters, perfumes, Cold and greaseless. M. Asher. 163,070; May 29.
Currency straps of $500 denominations. Spurgin Manufacturing Company. 177,575; May 29.
Cutlery. Wester Brothers. 156,206; May 29.
Cutlery, Certain kinds of. Premier Cutlery, Inc. 159,049; May 29.
Dates. Th. Giocalas & V. Coyimzoglu. 174,435–7; May 29.
Dates. Th. Giocalas & V. Coyimzoglu. 174,439; May 29.
Deodorants. M. G. Bowen. 157,822; May 29.
Dolls. L. Boatright. 177,649; May 29.
Dolls. Seigenberg & Shea. 179,062; May 29.
Dolls. L. C. Worrell. 176,652; May 29.
Dresses. A. H. Morgen. 176,751; May 29.
Dresses. A. H. Morgen. 176,753; May 29.
Dresses and aprons, House. Richardson Dry Goods Company. 173,301; May 29.
Dust collectors. Alfred C. Goethel Co. 157,369; May 29.
Dye, Egg. Schroeder & Hinkle. 173,537; May 29.
Electron tubes, sockets for electron tubes, rheostats, etc. Connecticut Telephone & Electric Company. 176,400; May 29.
Enamel. Edward E. Allen Mfg. Co. 179,079; May 29.
Enamels, Paint. J. C. Burris. 165,911; May 29.
Engines, Temperature-indicating device for gas. Pyrene Manufacturing Co. 175,736; May 29.
Fabrics, Device for computing and measuring. Yard-O-Meter Corporation. 175,904; May 29.
Fasteners made of ribbon or other material. M. J. A. Davy. 172,586; May 29.
Fruits, Fresh citrous. Silver Palm Citrus Growers Association. 170,044; May 29.
Fruits, Fresh citrous and deciduous. W. G. Roe. 177,409; May 29.
Fur coats, wraps, scarfs, etc. Wells-Treister Co. 172,699; May 29.
Furniture, Household and office. F. H. Miller. 175,203; May 29.
Game. Alderman, Fairchild Co. 177,206–7; May 29.
Game. Pung-Chow Company. 179,111; May 29.
Gasoline and liquid gauges. Marvel Products Company. 177,682; May 29.
Germicides or disinfectants, Apparatus for generating and diffusing vaporized. Newton, Chambers & Co. 177,922; May 29.
Ginger ale. I. L. Flory. 174,692; May 29.
Glue, Sheet. Henry Wilhelm Company. 178,319–20; May 29.
Golf clubs, balls, bags, irons, and tees. D. R. Griffiths. 175,390; May 29.
Grapefruit, oranges, tangerines, pineapples, etc., Fresh. J. Pratt Carroll, Inc. 166,347; May 29.
Grease, Lubricating. National Refining Company. 161,695; May 29.
Grinders, Bench. Goodell-Pratt Company. 177,082; May 29.
Gypsum, stucco, and wall plaster, Calcined. United States Gypsum Company. 176,862; May 29.
Hack-saw and coping-saw frames. Consolidated Tool Works, Inc. 176,883; May 29.
Hair nets. Southern Commercial Company. 178,364; May 29.
Hair tonic. M. H. Askinn. 175,593; May 29.
Hair tonic complexion powder, etc. I. J. Selkowitz. 159,628; May 29.
Hair tonics, smelling salts, witch hazel, etc. Calhoun, Robbins & Co. 172,207; May 29.
Hair-waving implements, Nonelectric iron heated. J. A. Hartvig. 178,101; May 29.
Hame attachments. U. S. Hame Company. 178,481; May 29.
Hame trimmings and saddlery hardware. U. S. Hame Company. 178,311; May 29.
Hams, bacon, lard, and sausage products. Lake Erie Provision Company. 172,422; May 29.
Harness. Henry Blake Harness Company. 168,292; May 29.
Hats for women. Julius Tofias & Bro. 165,898; May 29.
Hats, Straw. Caradine Harvest Hat Company. 168,999; May 29.
Homogenizer. Manton-Gaulin Manufacturing Company. 172,425; May 29.
Hosiery. May Hosiery Mills. 173,843; May 29.
Hosiery. Milo Silk Hosiery Mills. 173,973; May 29.
Hosiery. Phillips & Hart. 173,297; May 29.
Hosiery, knitted underwear, gloves, mittens, gauntlets. John E. Hurst & Co. 173,327; May 29.
Ice-cream cones. Walter J. Hirsch Company. 172,534; May 29.
Ice-cream dainties, Frozen. C. Pulliam. 177,572; May 29.
Insulators and knobs. Illinois Electric Porcelain Company. 167,354; May 29.
Jack frames. R. E. Alexander. 176,813; May 29.
Jars, cases, and other receptacles. Aridor Company. 163,850; May 29.
Jewelry and personal adornment, Articles of. Manufacturing Jewelers Export Co. 169,680; May 29.
Jewelry of precious metal, Articles of. I. Schiffman. 174,369; May 29.
Knit sweaters. D. Starr. 169,141; May 29.
Knitted fabrics in the piece, etc. Knitted Textiles Corporation. 174,311; May 29.
Lamps, Electric automobile. American Auto Lamp Co. 165,600; May 29.
Lamps for automotive vehicles, Signal electric. Pierce-Arrow Motor Car Company. 179,739; May 29.
Laths and lumber. Bolcom Canal Lumber Co. 176,012; May 29.
Laxative wafer. CaPhenin Chemical Company. 175,768; May 29.
Laxatives. Lungardia Company. 175,936; May 29.
Leathers. Hunt-Rankin Leather Co. 174,450; May 29.
Lighting fixture, Electrical. St. Louis Brass Manufacturing Company. 176,226; May 29.
Lotion applied to the face after shaving, tooth paste, face powder, etc. Allmans Co. 155,471; May 29.
Lotion for the scalp, face, and hands. X-Tol Products Company. 175,752; May 29.
Lotion, Skin. E. L. Patch Company. 174,482; May 29.
Lumber and veneers. Delta Export Lumber Corporation. 178,498; May 29.
Macaroni, Shell-shaped. Kansas City Macaroni & Importing Co. 177,303; May 29.
Magazines, books, and stories. Fiction House, Inc. 155,304; May 29.
Manicure sets. J. Richter. 178,627; May 29.
Massage preparations or tonics for the head and scalp. Van Ess Laboratories, Inc. 166,487; May 29.
Massaging or exercising the human body, Devices for. T. Lawton. 177,851; May 29.
Mattresses. John Hoey & Co. 177,064; May 29.
Mattresses. Never-Stretch Mattress Company. 175,616; May 29.
Mayonnaise, salads, etc. D. W. Howe. 161,362; May 29.
Medical and surgical appliances. First Aid Specialty Company. 177,177; May 29.
Medicinal preparations, Proprietory. Cumberland Chemical Co. 170,428; May 29.
Medicine for goiter swellings, etc., Proprietary. M. E. Ball. 174,606; May 29.
Metal polish. B. Heller & Company. 171,757; May 29.
Moisteners. A. J. Buren. 156,048; May 29.
Motors, Electric. General Electric Company. 161,182; May 29.
Mouth wash. S. Blanc. 175,642; May 29.
Nail liquid gloss, Finger-. Kosmos Chemical Company. 160,140; May 29.
Necklaces, Pearl. Rothschild & Company. 176,503; May 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Necklaces, Pearl. M. Tecla & Co. 167,958; May 29.
Neckties, Men's. Parker-Bridget Company. 169,818; May 29.
Newspaper and newspaper supplements. Tribune Company. 177,707; May 29.
Nickel silver-plated articles. Lehman Bros. 177,391; May 29.
Numbers, changeable window display signs, and sign reflectors, House. C. E. Z. Company. 176,449; May 29.
Odor absorbents and adsorbents. Safety Wire Gas Globe Co. 159,294; May 29.
Oil, analgesic balm, castor oil, etc., Medicinal. John T. Milliken & Company. 174,093; May 29.
Oil and canned anchovies, Olive. A. Russo. 177,411; May 29.
Oil, gasoline, and kerosene, Crude. C. F. Kellom. 161,840; May 29.
Oil, Olive. H. Janssen & Co. 167,642; May 29.
Oil used in making ready-mixed enamels and paints. Geo. R. Unkefer, Inc. 172,135; May 29.
Oils and gasoline, Lubricating. Apex Motor Fuel and Lubricant Co. 167,156; May 29.
Oils and grease and gasoline, Lubricating. American Refining and Manufacturing Company. 177,261; May 29.
Oils and lubricating oils and greases, Fuel. Evansville Oil and Grease Company. 177,902; May 29.
Oils, Core. American Hominy Company. 178,655; May 29.
Oils for preparing silk, wool, etc., for manufacture. Neutrasol Products Corporation. 177,988; May 29.
Ointment for burns, etc. Special Products Laboratory, Inc. 140,850; May 29.
Orchestrions, pianos, organs, etc. Philipps Aktien-Gesellschaft. 135,212; May 29.
Overalls. Cleveland Overall Company. 172,212; May 29.
Overalls, shirts, pants or trousers, coats, etc. Robt. Krause Co. 171,701; May 29.
Packing cases, Heated. E. G. F. Lockyer. 158,989; May 29.
Pails, cans, bread boxes, Water and dairy. Schlueter Manufacturing Co. 172,903; May 29.
Paint. Edward E. Allen Mfg. Co. 179,080–1; May 29.
Paint. Nitrose Company. 159,690; May 29.
Paints, lacquers, varnishes, and a solvent for varnishes and paints, Ready-mixed. Naamlooze Vennootschap Lak-, Verf- & Vernisfabriek "Ivormica." 172,171; May 29.
Paints, varnishes, varnish removers and enamel paints. Enterprise Paint Mfg. Co. 174,828; May 29.
Paints, water colors, etc., Tubed artist oil. Old Master Color Co. 174,025; May 29.
Paper and wrapping paper, Book. West Virginia Pulp & Paper Company. 177,256; May 29.
Paper cabinets, Toilet-. Utility Service Association. 157,050; May 29.
Paper for printing bonds, checks, etc. J. C. Hall Company. 174,616; May 29.
Paper for trading stamps, coupons, etc. Eureka Specialty Printing Company. 178,240; May 29.
Paper, Printing and writing. Cincinnati Cordage & Paper Co. 173,404; May 29.
Paper, Toilet. Perkins & Butler, Inc. 177,990; May 29.
Paper, typewriter ribbons, etc., Carbon. H. M. Storms Company. 154,850; May 29.
Paper, Waxed. Hamersley Manufacturing Company. 178,920; May 29.
Paper, Writing. H. G. Pohlmann. 148,851; May 29.
Papers, lining paper, and fly sheets, Blank. Levey Printing Company. 173,504; May 29.
Papers, tablets, etc., Writing, typewriting, and printing. Highland Manufacturing Company. 125,503; May 29.
Pearls, Artificial. Leys, Christie & Co. 179,734; May 29.
Pencils, Lead. Blaisdell Pencil Company. 178,212; May 29.
Perfume extract, toilet water, face powder, etc. La Valliere Company. 173,604; May 29.
Perfume, face powder, etc. E. Daltroff & Cie. 173,881; May 29.
Perfume, rouges, etc. E. Daltroff & Cie. 173,877; May 29.
Perfume, toilet water, etc. E. Daltroff & Cie. 173,874; May 29.
Perfume, toilet water, talcum powder, cold cream, etc. Mills Brothers Company. 175,818; May 29.
Perfumes. Coty, Inc. 175,920; May 29.
Perfumes, Liquid and powdered. Colgate & Company. 174,291; May 29.
Perfumes, toilet waters, face lotions, creams, etc. Lionel Trading Co. 174,083; May 29.
Perfumes, toilet waters, powders and sachets. United Drug Company. 173,793; May 29.
Pictures, Sets of. Max B. Sheffer Card Co. 172,404; May 29.
Plaster board and plaster wall board. United States Gypsum Company. 177,804; May 29.
Pocketknives. Winchester Repeating Arms Co. 175,693; May 29.
Polishing and grinding heads. Goodell-Pratt Company. 176,825; May 29.
Pongee in the piece, All-silk. Murray Trading Co. 176,909; May 29.
Powders and creams, perfumes, toilet waters, etc., Face. P. E. Page. 175,941; May 29.
Powders, creams, perfumes, toilet waters, etc., Face. Condé, Perfumer. 175,918; May 29.
Powders, Face. Betty Lou. 168,536; May 29.
Preparation for external use in the treatment of rheumatism, lumbago, etc. K. J. C. McLennan. 175,566; May 29.
Preparation for preventing the further tearing and ripping of hosiery, Chemical. F. Heitel. 168,680; May 29.
Punching tools and dies, Metal. Whitney Metal Tool Company. 175,586; May 29.
Radio apparatus. C. Hardy. 175,865; May 29.
Radio apparatus, Phones for use with. Marinette Electric Corporation. 176,635; May 29.
Radio apparatus. Sayre-Level Radio Company. 175,741; May 29.
Radio equipment. C. D. Potter Co. 175,437; May 29.
Radio receiving sets. L. A. Hazeltine. 176,676; May 29.
Radio receiving sets and parts thereof. Horne Manufacturing Co. 164,317; May 29.
Radio rectifiers and cat whiskers. Rusonite Products Corporation. 175,739; May 29.
Radiotelephone attachments. Master Radio Corporation. 171,544; May 29.
Ranges, Domestic gas. Detroit City Gas Company. 170,128; May 29.
Receptacles for carboys. Hercules Carboy Box Company. 178,342; May 29.
Refrigerating and ice-making plants, apparatus, machines, and parts and accessories thereof. Carbondale Machine Company. 172,637; May 29.
Remedies for skin diseases, External. Amore Drug & Chemical Company. 175,977; May 29.
Remedy for cold in head, grippe, influenza, etc. G. H. Hyland. 172,595; May 29.
Remedy for worms in dogs. Willows, Francis, Butler & Thompson, Limited. 167,113; May 29.
Rings, Finger. Uncas Manufacturing Co. 172,786; May 29.
Rouge. Colgate & Company. 174,290; May 29.
Rubber, Bituminous material for compounding. Barrett Company. 173,690–2; May 29.
Rubber-covered wire and cords. Tubular Woven Fabric Company. 166,154; May 29.
Rubber hand and foot balls. H. Schnezler. 170,342; May 29.
Rubber tiling. Fellsway Rubber Co. 178,338; May 29.
Rug-cleaning compound. Rugclenso Mfg. Co. 160,778; May 29.
Salves and ointments. C. P. Dixon. 162,613; May 29.
Salves and ointments for boils, carbuncles, etc. No-Lance Chemical Company. 175,729; May 29.
Saws. Simonds Saw and Steel Company. 175,957–8; May 29.
Saws. Simonds Saw and Steel Company. 176,000; May 29.
Scales, Hemoglobin. T. W. Talqvist. 174,542; May 29.
Serum, hog-cholera virus, mixed infection bacterin for swine, etc., Clear refined anti-hog-cholera. Globe Laboratories. 163,752; May 29.
Shampoo. S. B. Levey. 170,172; May 29.
Shoes. Sachs Shoe Manufacturing Company. 170,993; May 29.
Shoes. M. Wyman. 175,449; May 29.
Silk and wool fabrics and mixtures thereof in the piece. J. A. Migel, Inc. 177,505; May 29.
Silk, artificial silk, wool piece goods, and combinations thereof. Travis, Romaine & Jellé, Inc. 174,543; May 29.
Silk piece goods. M. A. Heyman. 176,407; May 29.
Silks, cotton, wool, and mixtures thereof and shirtings, in the piece. Turner & Walls. 176,928; May 29.
Silver-plated flatware, tableware, and cutlery. Oneida Community, Limited. 175,731; May 29.
Skates, Ice. Samuel Winslow Skate Mfg. Co. 175,975; May 29.
Spark plugs. T. & H. Nichols. 177,101; May 29.
Springs, mattresses, and pillows, Box. Schultz & Hirsch Co. 175,950; May 29.
Speed reducers, shaft couplings, friction clutches, hoists, etc. Palmer-Bee Company. 176,359; May 29.
Sprayers for spraying vegetation. Ferguson Manufacturing Company. 175,479; May 29.
Sugar, Powdered. Richardson & Holland, Inc. 141,399; May 29.
Suits, Outer. C. E. Reith. 172,122; May 29.
Taffy, Salt-water. Theo. J. Lapres, Inc. 167,777; May 29.
Tamari, vinegar, extract of soy, etc. G. Hamaguchi. 174,434; May 29.
Telescopes, binoculars, photographic lenses and cameras. Voigtländer & Sohn Aktiengesellschaft. 173,613; May 29.
Thread for stringing pearls and beads, Silk. L. F. Rosenberg. 178,933; May 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tires and for preserving rubber, Composition for stopping leaks in. E. A. Garten. 136,626; May 29.
Tires and rubber tubes therefor, Vehicle. Fisk Rubber Company. 171,454; May 29.
Tools for kitchen use. J. F. McBride. 175,364; May 29.
Toy dolls and animals. J. W. Torrey. 173,907; May 29.
Trading certificates. R. L. Mason. 173,518; May 29.
Twine. Orchard Paper Company. 179,053; May 29.
Vacuum cleaner, Electric. Birtman Electric Company. 175,380; May 29.
Valve grinders. Goodell-Pratt Company. 176,824; May 29.
Variometers and variocouplers. G. H. Fisher & Co. 175,549; May 29.
Varnish. M. Gordon. 178,721; May 29.
Vegetables, citrous fruits, grapes and melons, Fresh. Idaho Producers' Union. 170,685; May 29.
Vises, Bench. Goodell-Pratt Company. 176,737; May 29.
Washboilers. M. Kamenstein. 145,463; May 29.
Waste-saving machinery and apparatus. Stanley Hiller, Inc. 171,712; May 29.
Water, Medicinal. Estate of Julia V. H. Magee. 161,493; May 29.
Water, Mineral. W. H. Thurman. 175,415; May 29.
Wine, Champagne. Societe Vinicole de Champagne. 165,214; May 29.
Wire and cables, Insulated. Kerite Insulated Wire & Cable Company. 178,107; May 29.
Wireless telegraphy and wireless telephony apparatus, Crystals or minerals for use in. Radio Mineral Company. 178,281; May 29.
Wool. New Zealand Refrigerating Company Limited. 161,380; May 29.
Worsted and woolen dress goods in the piece. F. A. Bochmann & Co. 175,051-2; May 29.
Writing and drawing surfaces. Stewart Corporation. 178,879; May 29.
Yarn. C. Lawrence. 177,006; May 29.
Yeast cakes. Everlasting Yeast Company. 173,630; May 29.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Aaab, William, assignor of one-half to F. Crone, New Ulm, Minn. Boring-bar tool. 1,456,351; May 22.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Diaphragm switch. 1,456,087; May 22.
Abrams, Joseph M. (See McPherson, F. H., and Abrams.)
Acheson, Edward G., New York, N. Y. Clay product and preparing same. 1,456,111; May 22.
Acheson, Edward G., New York, N. Y. Reflocculated product and preparing same. 1,456,112; May 22.
Adams, Frank J., New York, N. Y., assignor, by mesne assignments, of one-half to E. J. Marston, Greenwich, Conn., and one-half to H. A. Smith, Yonkers, N. Y. Projection picture screen and making same. 1,455,982; May 22.
Adamski, Joseph M., Milwaukee, Wis. Pneumatic-cushion seat. 1,456,207; May 22.
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Selective circuit for multiplex transmission. 1,455,827; May 22.
Agronofsky, Abraham, St. Joseph, Mo. Combined scale and tongs. 1,455,828; May 22.
"Airships, Incorporated." (See Witmer, C. C., and Havens, assignors.)
Aktiebolaget Syrefast Murning. (See Ekström, Per G., assignor.)
Albany Paper Mill Machinery Company. (See Crandell, Willis S., assignor.)
Albury, Robert C., Tampa, Fla. Gasoline gauge and strainer. 1,456,352; May 22.
Allen, Elizabeth O. (See Smith, Elmer W., assignor.)
Allen, Scott E. (See Wiswell, O. N., and Allen.)
Alloys Company, The. (See Newell, Minton H., assignor.)
Aluminum Seal Company. (See Stockton, Frank W., assignor.)
Alward, George T. (See Noland, David E., assignor.)
Amberg, Walter E., assignor to W. O. Peterson and B. L. Engelke, Chicago, Ill. Printing press. 1,456,292; May 22.
American Auto Lamp Co. (See Berk, William, assignor.)
American Button & Fastener Co. (See Latham, Albert, assignor.)
American Can Company. (See Wheelwright, George W., assignor.)
American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
American Musical Supply Company. (See Hessmer, Frederick W., assignor.)
American Radiator Company. (See Mallory, Harry C., assignor.)
American Stove Company. (See Munzmer, Charles, assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Kirkwood, Maclean, assignor.)
Ames, Butler, Lowell, Mass. Magneto. 1,456,113; May 22.
Anderson, Edgar T., and W. Morgan, Scranton, Pa. Skimming device for coal jigs. 1,455,854; May 22.
Anderson, Edward, assignor of one-tenth to J. H. Moorman, Denver, Colo. Lock. 1,455,770; May 22.
Anderson, James. (See Pyle, D. F., and Anderson.)
Anderson, Martin, Randwick, near Sydney, New South Wales, Australia. Expanding and smoothing the bores in gun barrels. 1,455,771; May 22.
Andrew, Cecil D., Buxton, England. Chuck for lathes and the like. 1,456,293; May 22.
Andrich, Herbert F., Detroit, Mich. Pneumatic-tire casing. 1,455,855; May 22.
Angel, Adrian W. (See Moll, W., and Angel.)
Angier, Edward H. (See Wheildon, William M., assignor.)
Ansco Company. (See Pausch, Oliver W., assignor.)
Arden Mills, Inc. (See Feldman, Harold B., assignor.)
Armstrong, Charles J., Austin, Tex. Quick-acting wrench. 1,456,208; May 22.
Armstrong, Percy A. E., Loudonville, N. Y. Heat-treated stable-surface alloy steel. 1,456,088; May 22.
Arrowsmith, George M., Kansas City, Mo., assignor to J. W. Ivory, Philadelphia, Pa. Tooth separator. 1,456,294; May 22.
Arter, Roy C., assignor to The North Electric Manufacturing Company, Galion, Ohio. Machine-switching telephone system. 1,455,769; May 22.
Athletic Health Chair Company. (See Lauer, William E., assignor.)
Atkinson, Dale S., and J. McKenzie, Toronto, Ontario, Canada. Combined internal-combustion and turbine engine. 1,456,479; May 22.
Atwood, Clarence B., Chicago, Ill. Burglar alarm. 1,456,209; May 22.
Automat Molding & Folding Company, The. (See Beam, Frank E., assignor.)
Automatic Electric Company. (See Fahrenfeld, Frederick W., assignor.)
Automatic Electric Company. (See Willis, Bernard D., assignor.)
Automatic Packing & Labeling Company. (See Gwinn, George W., assignor.)
Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
Bain, Joseph S., Cedar Rapids, Iowa. Seed-corn drier. 1,456,295; May 22.
Baker, Dexter C., assignor to Baker-Hansen Manufacturing Company, Oakland, Calif. Air compressor. 1,456,089; May 22.
Baker-Hansen Manufacturing Company. (See Baker, Dexter C., assignor.)
Baker, Murray & Imbrie, Inc. (See Disch, Frank, assignor.)
Baker Rubber Cement Co. (See Currier, Andrew E., assignor.)
Baldock, G. R., & Co. Limited. (See Harrison, George W., assignor.)
Baldridge, Albert S. (See Dixon, S., and Baldridge.)
Balke, Paul, and G. Leysieffer, Troisdorf, Germany. Record for gramophones and the like. 1,456,047; May 22.
Ball, John P., Chicago, Ill. Apparatus for and method of treating sewage. 1,456,046; May 22.
Baillet, Aaron H., Allentown, Pa. Circular box for cigars. 1,455,983; May 22.
Ballou, B. A., & Company. (See Morehouse, Eugene, assignor.)
Balmer, John H., Newark, N. J. Toothbrush and tumbler supporting fixture. Des. 62,389; May 22.
Bare, Darius D., West Jefferson, N. C. Mill. 1,456,353; May 22.
Barkelew, James T., Monterey Park, Calif. Tractor cultivator. 1,455,984; May 22.
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,456,296; May 22.
Barr and Stroud, Limited. (See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Optical apparatus for measuring small angles. 1,455,772; May 22.
Barr, Harry P., East Orange, N. J., assignor to C. P. Fiske, Newton, Mass. Brick. 1,456,048; May 22.
Barrera, Carlos O., Tuckahoe, N. Y. Aerial vehicle. 1,456,210; May 22.
Barrows, Frank W., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Safety ejector for dictaphones and the like. 1,456,354; May 22.
Barton, Jack, Parkmill, near Swansea, Wales. Safety-razor-blade-sharpening device. 1,456,355; May 22.
Bassick Manufacturing Company, The. (See Cummings, Norman W., assignor.)
Bauer, John, Detroit, Mich. Storm shield. 1,255,829; May 22.
Bauer, John, Detroit, Mich. Storm shield. 1,455,830; May 22.
Baus, Richard E., Detroit, Mich., assignor to The Studebaker Corporation. System for loading automobiles in freght cars. 1,456,173; May 22.
Beacham, Walter C., Clayton, Mo. Combined door stop and holder. 1,456,114; May 22.
Beam, Frank E., assignor to The Automat Molding & Folding Company, Toledo, Ohio. Molding machine for plastic materials. 1,456,174; May 22.
Beauchamp, Archie, et al. (See Forsman, Andrew, assignor.)
Beauchamp, Emil, et al. (See Forsman, Andrew, assignor.)
Beaver Machine & Tool Company. (See Belmont, R. A., and Downing, assignors.)
Beaver Machine and Tool Co. (See Pape, Herman G., assignor.)
Becker, George D., Saginaw, Mich. Pipe wrench. 1,456,480; May 22.

Becton, Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)
Bedford, Reginald A., Sheffield, England. Manufacture of hollow steel or iron bars, tubes, shafts, rock drills, and the like. 1,455,856; May 22.
Bell, James A. H., Toledo, Ohio. Light-cleaning apparatus. 1,455,773; May 22.
Belmont, Ralph A., New York, N. Y., and J. B. Downing, assignors to Beaver Machine & Tool Company, Newark, N. J. Electric switch. 1,455,985; May 22.
Bement, Alburto, Chicago, Ill. Air moistener. 1,456,417; May 22.
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Controlling mechanism for dump cars. 1,456,049; May 22.
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Air-controlling valve mechanism. 1,456,050; May 22.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
Bennett, Amos, Chesapeake, Ohio, and J. H. Hatchett, Huntington, W. Va. Sectional rim. 1,455,857; May 22.
Bennett, Frank S., Schenectady, N. Y., assignor to General Electric Company. Valve mechanism. 1,456,090; May 22.
Bentley, Alvis R., Phil Campbell, Ala. Portable hayrack. 1,456,356; May 22.
Benton, Henry, Elizabethport, N. J. Furnace grate. 1,456,418; May 22.
Berg, Gustaf A., Los Angeles, Calif. Bottle-washing machine. 1,455,774; May 22.
Berg, Julius L., Berg, N. Dak. Patch for pneumatic tires. 1,456,115; May 22.
Berk, William, assignor to American Auto Lamp Co., Inc., New York, N. Y. Lamp support. 1,456,297; May 22.
Berthier, André V. P. M., Neuilly-sur-Seine, France, assignor to United States Machine Gun Company, Boston, Mass. Firearm. 1,456,482; May 22.
Berryman, Grover C., Los Angeles, Calif. Leakproof inner tube. 1,455,775; May 22.
Bessesen, Alfred N., sr., Minneapolis, Minn. Surgical retractor. 1,456,116; May 22.
Betts, James H., Brightwaters, N. Y. Electrical apparatus for illuminating and decorating Christmas trees and similar uses. 1,456,091; May 22.
Bigelow, Frank B., assignor to Murphy Iron Works, Detroit, Mich. Furnace sectional dead grate with brick inserts. 1,455,858; May 22.
Bilan, John, Flint, Mich. Vehicle spring. 1,456,117; May 22.
Bilbrough, Charles F. S., Burnham-on-Crouch, England. Detachable fastener. 1,456,118; May 22.
Billmeyer, Harry, Washingtonville, Pa. Safety snap hook. 1,456,264; May 22.
Bines, William H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for treating rubber. 1,456,211; May 22.
Bishop, James A., Denver, Colo. Power generation. 1,456,212; May 22.
Black, John C., Destrehan, La. Process and apparatus for the production of low-boiling-point hydrocarbons. 1,456,419; May 22.
Blackburn, Bruce B., St. Petersburg, Fla. Storage-battery connection. 1,456,420; May 22.
Blaine, Walter E., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,455,986; May 22.
Bogaty, Hermann. (See Schwartz, W. M., and Bogaty.)
Bohn, Herman W. (See Etnetzel, A., and Bohn.)
Bohannon, Wilson, Inc. (See Sauerbrei, William N., assignor.)
Bonifacino, Lawrence C., and M. B. Irby, Baltimore, Md. Tire armor. 1,456,421; May 22.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,455,776; May 22.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,455,777; May 22.
Boosalis, Gus N., et al. (See Simmons, Alfred K., assignor.)
Borax Consolidated Limited. (See Kelly, Albert A., assignor.)
Borgfeldt, George & Co. (See Sander, Alfred H., assignor.)
Borlase, William J., Philadelphia, Pa. Bag holder. 1,456,175; May 22.
Bourassa, Joseph C. E., Montreal, Quebec, Canada. Truck. 1,455,987; May 22.
Bower, Robert F., Detroit, Mich. Vehicle traffic signal. 1,455,778; May 22.
Bowerman, Joseph A., Wilbraham, assignor to The Fisk Rubber Company Chicopee Falls, Mass. Valve pad for inner tubes and making same. 1,456,357; May 22.
Bowles, Charles D., Des Moines, Iowa. Carburetor attachment. 1,456,213; May 22.
Boye, James H., Chicago, Ill. Curtain fixture. 1,456,214; May 22.
Bracken, Silas D., Johnstown, Pa. Ice-cream-cutting machine. 1,455,988; May 22.
Bramberry, Harry M., assignor to Piston Research Corporation, Norfolk, Va. Metallic piston packing. Re15,610; May 22.
Bran Products Company. (See Mininberg, Nathan, assignor.)
Breuker & Kessler Company. (See Kessler, Harry C., assignor.)
Brewer, Robert W. A., Indianapolis, Ind. Fuel manifold. 1,456,176; May 22.
Bridgeford, John J., Philadelphia, Pa. Steam-boiler furnace. 1,456,119; May 22.
Brightman, G. F., et al. (See Brightman, Harrison M., assignor.)
Brightman, H. L., et al. (See Brightman, Harrison M., assignor.)
Brightman, Harrison M., assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, Columbus, Ohio. Manufacturing acorn nuts. 1,456,215; May 22.
Brightman, Harrison M., assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, Columbus, Ohio. Feeding and sorting device. 1,456,216; May 22.
Brightman, Harrison M., assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, Columbus, Ohio. Shaft-straightening apparatus. 1,456,217; May 22.
Brightman, Harrison M., assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, Columbus, Ohio. Conveyer apparatus. 1,456,218; May 22.
Brightman, J. H., et al. (See Brightman, Harrison M., assignor.)
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Carburetor. 1,456,219; May 22.
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Two-cycle engine for bicycles. 1,456,220; May 22.
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Engine-starting mechanism. 1,456,493; May 22.
Brooks, Edward, Atlanta, Ga. Attachment for baling presses. 1,456,265; May 22.
Brooks, Rufus M., Roseburg, Oreg. Tape feed and moistening machine. 1,456,859; May 22.
Brown, Francis H., Glenolden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass. Regulating apparatus. 1,455,860; May 22.
Brown, Fred E., assignor to Zenite Metal Company, Indianapolis, Ind. Windshield. 1,456,221; May 22.
Brown, Harold, Dacoma, Okla. Animal poke. 1,455,861; May 22.
Brown, James M., Philadelphia, Pa. Spool. 1,455,779; May 22.
Brown, Silas O., Sulphur Springs, Tex. Cotton-chopper attachment for cultivators. 1,456,359; May 22.
Broxton, George, Pittsburgh, Pa. Socket wrench. 1,456,358; May 22.
Bruine, Maurice R. J., New York, N. Y., assignor to Faurot-Scope Corporation. Motor-vehicle signal. Des. 62,390; May 22.
Brunswick, Edmond L. (See Christensen, H., and Brunswick.)
Brzykcy, Antoni, Minneapolis, Minn. Windmill. 1,455,862; May 22.
Budil, Alfred, Berlin-Tempelhof, Germany. Air filter. 1,456,360; May 22.
Bugbee, Lucian W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Lens-edging machine. 1,455,863; May 22.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric or similar article. Des. 62,391; May 22.
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burke Electric Company. (See Burke, James, assignor.)
Burke, James, Erie, Pa., assignor to Burke Electric Company. Magnet frame. 1,456,120; May 22.
Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. 1,456,092; May 22.
Burroughs, Charles F., East Orange, N. J., assignor, by mesne assignments, to The Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Heating or cooling plate for molding presses. Re15,608; May 22.
Busch, Augusto. (See Tommasi, C., Sandholm, Danneel, and Busch.)
Busick, Richard H., Baltimore, Md. Piston-ring tester. 1,455,864; May 22.
Buxton, Harry. (See Saunders, Edward, assignor.)
Cabana, Charles, Buffalo, N. Y. Jointed doll. 1,456,422; May 22.
Cabelinsky, Julius L., Roxbury, Mass. Sewing-machine-shafting guard. 1,455,899; May 22.
Cade Manufacturing Company. (See Heldrich, Andrew, assignor.)
Callan, Charles G., Bengough, Saskatchewan, Canada. Window-sash lock. 1,455,865; May 22.
Callot, Herbert F. E., Lucien, Nancy, Meurthe-et-Moselle, France. Frame for vehicles traveling upon railways. 1,455,866; May 22.
Carlson, Axel, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Slack-take-up device for electric-iron cords. 1,456,093; May 22.
Carmichael, Thurman, Maryville, Mo. Hog-watering trough. 1,455,989; May 22.

Carnes Artificial Limb Company, The. (See Carnes, William T., assignor.)
Carnes, William T., assignor to The Carnes Artificial Limb Company, Kansas City, Mo. Combined furnace and crucible. 1,456,208; May 22.
Carrier Engineering Corporation. (See Lewis, Leo L., assignor.)
Carter, Samuel W., Washington, D. C. Adjustable-pitch propeller for airplanes. 1,455,990; May 22.
Carter, William D., East Orange, N. J. Centrifugal pump. 1,456,051; May 22.
Chabot, Joseph O., assignor to Geo. L. Palmer Co., North Attleboro, Mass. Belt buckle. 1,455,831; May 22.
Chalmers, George W., Summit, Ill., assignor to Corn Products Refining Company, New York, N. Y. Can-testing apparatus. 1,456,094; May 22.
Charlton, Thomas, Chicago, Ill., assignor, by mesne assignments, to G. M. Studebaker, South Bend, Ind. Rotary engine. 1,456,222; May 22.
Cheek, Tolbert F., New York, N. Y., assignor to The Phil-Har-Chee Piano Player Corporation. Pressure regulator for musical instruments. 1,455,900; May 22.
Chicago Flexible Shaft Company. (See Carlson, Axel, assignor.)
Childs, Clarence E., Palo Alto, Calif. Combined wind deflector, sunshade, and side inclosure for vehicles. 1,455,991; May 22.
Chipman, Mark W., assignor to Lynn Machine Screw Company, Lynn, Mass. Clutch. 1,455,901; May 22.
Christensen, Harry, and E. L. Brunswick, Chicago, Ill. Lamp. 1,455,902; May 22.
Church, Howard A., Elkhart, Ind. Pitcher. Des. 62,392; May 22.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,455,832; May 22.
Chwalkowski, Vincent, Newark, N. J. Heater. Des. 62,393; May 22.
Clark, Horace O., Waukegan, Ill. Chain connector. 1,456,361; May 22.
Clark, John T. (See Mills, T. M., and Clark.)
Clark, William G., Oak Park, Ill. Rheostat. 1,455,903; May 22.
Cleveland Tractor Company, The. (See Heinkel, Christian F., assignor.)
Cleveland Tractor Company, The. (See White, Rollin H., assignor.)
Coaster Company. (See Peterson, Peter R., assignor.)
Coates, Frederick, Wyoming, assignor to The Federal Products Company, Cincinnati, Ohio. Paper or pulp container. 1,456,423; May 22.
Coates, Frederick, Wyoming, assignor to The Federal Products Company, Cincinnati, Ohio. Paper or pulp container. 1,456,424; May 22.
Coit, Harry L., Bridgeport, Conn. Check protector. 1,455,904; May 22.
Colbentson, Oliver S., Toronto, Ontario, Canada. Shoulder rest for violins and the like. 1,455,902; May 22.
Colby, Zenas E., Bay City, Mich. Hoisting apparatus. 1,456,488; May 22.
Collins, Francis E., Conshohocken, Pa. Pressure oil filter. 1,456,095; May 22.
Columbia Graphophone Manufacturing Company. (See Barrows, Frank W., assignor.)
Columbia Graphophone Manufacturing Company, The. (See Burroughs, Charles F., assignor.)
Columbia Graphophone Manufacturing Company. (See de Stubner, Emile, assignor.)
Connecticut Telephone & Electric Company. (See Donle, Harold P., assignor.)
Conway, Patrick J., Providence, R. I. Necklace-fastening device. 1,455,993; May 22.
Cook, Robert C. N., Lebanon, Ind. Bidet for closet seats. 1,455,905; May 22.
Corn Products Refining Company. (See Chalmers, George W., assignor.)
Cornwell, Elmer E., and J. H. McCready, Okmulgee, Okla. Burner. 1,455,955; May 22.
Corwin, Frank E., Toledo, Ohio. Cooking utensil. 1,455,780; May 22.
Cowan, John A., Kansas City, Mo. Vehicle top and boat. 1,455,904; May 22.
Cowlishaw, Walker & Company (1920) Limited. (See Moore, Matthew S., assignor.)
Cox, Walter C., Denver, Colo. Endless-track structure for motor-driven vehicles. 1,455,906; May 22.
Craddick, William F., and C. M. Uhlig, assignors to Vit-O-Net Mfg. Co., Chicago, Ill. Electrical blanket and the like. 1,456,223; May 22.
Cramer, Carl, Zurich, Switzerland. Bleaching earth. 1,455,995; May 22.
Crandell, Willis S., Elsmere, assignor to Albany Paper Mill Machinery Company, Inc., Albany, N. Y. Adjusting mechanism for friction gears. 1,456,121; May 22.
Crane, Frederick G., et al. (See Hammond, Grant, assignor.)
Crane, Richard. (See Smadecki, William J., assignor.)
Crane, Ryerson, Chicago, Ill., assignor to Ryerson Crane, Inc. Atomizing oil burner. 1,456,266; May 22.
Crane, Ryerson, Inc. (See Crane, Ryerson, assignor.)
Craver, Howard S., assignor of one-half to H. S. Judd, Chicago, Ill. Washing machine. 1,456,052; May 22.
Craver, Howard S., assignor of one-half to H. S. Judd, Chicago, Ill. Washing machine. 1,456,053; May 22.
Cresson, George L., Milwaukee, Wis. Window scaffold. 1,456,362; May 22.
Crippen, Herbert O., Jacksonville, Fla. Rail spike. 1,456,363; May 22.
Crnoev, Jan, St. Louis, Mo. Necktie holder. 1,456,299; May 22.
Crockett, Oscar, assignor of one-half to W. B. Crockett, Kansas City, Mo. Safety cranking device. 1,456,481; May 22.
Crockett, Walter B. (See Crockett, Oscar, assignor.)
Crockett, William P., Chicago, Ill. Shouldered nut or bushing and making same. 1,456,177; May 22.
Crockett, William P., Chicago, Ill. Coupling and making the same. 1,456,178; May 22.
Crone, Ferdinand. (See Aab, William, assignor.)
Crooks, Elmer H. (See Crooks, Oliver W. and E. H.)
Crooks, Oliver W. and E. H., Big Creek, Calif. Dumping mine car. 1,456,054; May 22.
Crosland, George A., et al. (See Jenner, Charles E., assignor.)
Cummings, Dickinson S. (See Pierce, John, jr., assignor.)
Cummins, Norman W., Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill. Coupling. 1,456,179; May 22.
Currier, Andrew E., Millis, assignor to Baker Rubber Cement Co., Boston, Mass. Method and machine for making prepared roofing. 1,456,224; May 22.
Cutler-Hammer Mfg. Co., The. (See Maage, Alfred E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Dahlgren, Leonard, assignor to Filkwik Company, Attleboro, Mass. Cigarette case. 1,456,055; May 22.
Dalberg, William, Deary, Idaho. Overshoe holder. 1,456,364; May 22.
Dale, Arthur C., New Orleans, La. Boat. 1,455,833; May 22.
Daman, Arthur C., Denver, Colo. Vibrating trommel screen. 1,455,907; May 22.
Daniel, Daniel, Little Rock, Ark. Cotton harvester and conveyer. 1,455,908; May 22.
Daniel, Frank W., Wissinoming, Pa., assignor to Quaker City Rubber Company, Philadelphia, Pa. Tire tread. Des. 62,394; May 22.
Danielson, Frank, Chicago, Ill. Vise. 1,456,365; May 22.
Danneel, Heinrich. (See Tommasi C., Sandholm, Danneel, and Busch.)
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Dispensing apparatus. 1,456,366; May 22.
Dyer, Charles B., Indianapolis, Ind. Pin, emblem, medal, ring, or article of similar nature. Des. 62,396; May 22.
Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Motor governor. 1,456,300; May 22.
Dein, George H., Woodhaven, N. Y. Suspension spring for automobiles. 1,456,483; May 22.
Delco-Light Company. (See Kelhoitz, Lester S., assignor.)
De Mattia, Barthold. (See de Mattia, Peter and B.)
De Mattia, Barthold, Clifton, N. J. Machine for forming pneumatic tires. 1,456,425; May 22.
De Mattia, Peter and B., Clifton, N. J. Core and chuck. 1,456,426; May 22.
Dennis, George E., Waukesha, Wis. Shock absorber. 1,456,367; May 22.
Dennis, George E., Waukesha, Wis. Radius-rod shock absorber. 1,456,368; May 22.
De Procoudine-Gorsky, Serge M., Nice, France. Optical system for photographic cameras. 1,456,427; May 22.
Dermophile Products Company. (See Zirion y Saravia, A., and Rodriguez, assignors.)
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. Re15,611; May 22.
De Stubner, Emile, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Thermoplastic composition and compounding the same. 1,456,369; May 22.
Detrick, M. H., Co. (See Hosbein, Louis H., assignor.)
Dexter Manufacturing Company. (See Maier, August J., assignor.)
Diefenbacher, Ella, New Philadelphia, Ohio. Lingerie pin. 1,456,301; May 22.
Diehl, Ambrose N., Duquesne, Pa. Method of and apparatus for cleaning gases. 1,455,834; May 22.
Disch, Frank, Rutherford, N. J., assignor to Baker, Murray & Imbrie, Inc., New York, N. Y. Tire. Des. 62,395; May 22.
Diskin, Moses B., New York, N. Y. Box form or mandrel. 1,456,006; May 22.
Ditton, George O., Lanoka, N. J. Electric cooker and heater. 1,455,909; May 22.
Dixon, John G., assignor of one-half to G. T. Hultman, Chicago, Ill. Separator foot for press feeders. 1,456,225; May 22.
Dixon, Silas, and A. S. Baldridge, Oklahoma, Okla. Weather strip. 1,456,097; May 22.
Doane, Leroy C., Cleveland, Ohio, assignor to General Electric Company. Packing case. 1,456,098; May 22.
Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Steam-power plant. 1,456,226; May 22.

Doble Laboratories. (See Doble, John A., assignor.)
Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,456,302; May 22.
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Dodds, Ethan I. (See Flannery, J. R., Stafford, and Dodds.)
Dodge, Frank H., et al. (See Ware, Thomas E., assignor.)
Domarus, George V., jr., Saginaw, Mich. Adjustable motor fan. 1,455,910; May 22.
Donath, George A. (See Hartson, F. C., and Donath.)
Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Variometer. 1,456,267; May 22.
Doolan, Henry J., Washington, D. C. Combined indicator and recorder. 1,455,835; May 22.
Dougherty, Paul S., Chicago, Ill. Trap for refrigerator cars. 1,456,428; May 22.
Downe, Frank W., San Francisco, Calif., assignor to Mechanical Perfecting Corporation. Machine for recording and reproducing sound. 1,456,180; May 22.
Downing, Ira S., Indianapolis, Ind. Metal car structure. 1,455,867; May 22.
Downing, John B. (See Belmont, R. A., and Downing.)
Downs, James L., New York, N. Y. Lubricator. 1,455,868; May 22.
Drake, James J. (See Drake, Walter H. and J. J.)
Drake, Walter H. and J. J., Cleveland, Ohio. Making waterproof rigid articles from pulp. 1,456,370; May 22.
Driggs, Louis L. and L. L., jr., New York, N. Y. Elastic suspension for vehicles. 1,456,371; May 22.
Driggs, Louis L., jr. (See Driggs, Louis L. and L. L., jr.)
Dubilier Condenser & Radio Corporation. (See Dubilier, William, assignor.)
Dubilier, William, New York, N. Y., assignor to Dubilier Condenser & Radio Corporation. Electrical condenser. 1,455,781; May 22.
Dufek, Louis, Tacoma, Wash. Draft device for chimneys. 1,456,099; May 22.
Duggan, Joseph L., Sparrows Point, Md. Land and water toy. 1,456,429; May 22.
Durrant, Thomas, Harptree, Saskatchewan, Canada. Attachment to binders. 1,456,123; May 22.
Dusseris, Henri F. E. S., Paris, France. Apparatus for movable publicity. 1,456,124; May 2.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Time-element circuit controller. 1,456,100; May 22.
Eddie, Albert A. (See Whitney, Stephen H., assignor.)
Eden, James A., jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Turning and threading machine. 1,456,101; May 22.
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Edney, William J., Sutton, England. Turbine. 1,456,122; May 22.
Edwards, William, Rock Springs, Wyo. Panoramic attachment for cameras. 1,456,372; May 22.
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Eisenbach, Peter, Detroit, Mich. Spring rim. 1,455,997; May 22.
Eisenmann, John, assignor to The Mandl Building Block & Tile Company, Cleveland, Ohio. Building block and construction. 1,456,373; May 22.
Einstein, Robert E., assignor to St. Louis Frog & Switch Co., St. Louis, Mo. Adjustable switch-rail clip. 1,455,996; May 22.
Ekström, Per G., assignor to Aktiebolaget Syrefast Murning, Stockholm, Sweden. Acidproof mortar. 1,456,303; May 22.
Elektrizitatswerk Lonza. (See Tommasi, C., Sandholm, Danneel, and Busch, assignors.)
Elgin Street Sweeper Co. (See Martin, Elmer R., assignor.)
Elliott, Chas. H., Company (See Robertson, Walter S., assignor.)
Engelke, Barnard L., et al. (See Amberg, Walter E., assignor.)
Evans, Rudolph W., Hamilton, Ontario, Canada. Tire chain. 1,456,181; May 22.
Excelsior Steel Furnace Co., The. (See Scherer, Albert G., assignor.)
Exum, Joseph K., Milltown, Ga. Side-dump vehicle. 1,456,374; May 22.
Faes, Henry A., Crook, Colo. Flytrap. 1,455,782; May 22.
Fahrenfeld, Frederick W., assignor to Automatic Electric Company, Chicago, Ill. Calling-device attachment. 1,455,998; May 22.
Falconer, Leroy D., Bethel, Kans., assignor to E. E. Stephens, Kansas City, Mo. Tool for applying and removing tire chains. 1,456,484; May 22.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control device. 1,456,269; May 22.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. 1,456,268; May 22.
Farell, Patrick F. (See Harrop, W., Reilly, and Farrell.)
Faurot-Scope Corporation. (See Bruine, Maurice R. J., assignor.)
Federal Products Company, The. (See Coates, Frederick, assignor.)
Feldman, Harold B., assignor to Arden Mills, Inc., New York, N. Y. Textile fabric. Des. 62,397; May 22.
Fellay, Louis J., Peoria, Ill. Traction wheel. 1,455,809; May 22.
Fetzer, Louis W., Findlay, assignor to The Traction Machine Company, North Baltimore, Ohio. Attachment for pipe-pulling machines. 1,455,999; May 22.
Fierheller, George, Toronto, Ontario, Canada. Bath sponge. 1,455,870; May 22.
Filtkwik Company. (See Dahlgren, Leonard, assignor.)
Firestone Tire and Rubber Company, The. (See Bines, William H., assignor.)
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings bank. 1,456,227; May 22.
Fisher, James, New Orleans, La. Juice-saving attachment for cane mills. 1,456,430; May 22.
Fisher, William C., assignor to Russell Manufacturing Company, Middletown, Conn. Conveyer belt. 1,456,000; May 22.
Fisk Rubber Company, The. (See Bowerman, Joseph A., assignor.)
Fiske, Charles P. (See Barr, Harry P., assignor.)
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery Bolt Company. (See Flannery, J. R., Stafford, and Dodds, assignors.)
Flannery, John R., B. E. D. Stafford, and E. I. Dodds, assignors, by mesne assignments, to Flannery Bolt Company, Pittsburgh, Pa. Means for testing stay bolts in boilers. 1,455,836; May 22.
Flannery, John R., and E. I. Dodds, assignors, by mesne assignments, to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. 1,455,837; May 22.
Flash Gun Limited, The. (See Paterson, William G., assignor.)
Fledderman, Herman J., Tulsa, Okla. Internal-combustion engine. 1,456,125; May 22.
Fleming, Jesse M., Drumright, Okla. Sand trap. 1,455,871; May 22.
Fogler, Ben B., Cleveland, Ohio, assignor to General Electric Company. Chemical apparatus. 1,456,102; May 22.
Ford Instrument Company. (See Meitner, Elemer, assignor.)
Forsman, Andrew, Iron River, assignor of one-half to A. Beauchamp and E. Beauchamp, one-tenth to H. McPhee, one-tenth to E. Greenwood, Iron County, and one-twentieth to A. E. Stuht, Iron River, Mich. Automatic boltless rim. 1,456,375; May 22.
Foshee, David J., Red Level, Ala. Roost. 1,456,056; May 22.
Foster, Walter H. (See Eden, James A., jr., assignor.)
Frank, Daniel W. L., Chicago, Ill. Level and plumb. 1,456,431; May 22.
Franklin, Joseph A., Rensselaer, N. Y. Merry-go-round. 1,456,228; May 22.
Friday, George B., Pittsburgh, Pa. Cap wrench. 1,456,126; May 22.
Fritschka, Leo, Detroit, Mich. Combination walking cane. 1,456,304; May 22.
Froh, Henry, Cincinnati, Ohio. Hair-cutting device. 1,456,432; May 22.
Frost, Ralph I. (See Rode, F. J., Frost, and Liston.)
Fry, Leslie, Des Moines, Iowa. Window stop. 1,456,220; May 22.
Ftykio, Andy, Braznell, Pa. Container for toilet articles. 1,455,783; May 22.
Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
Furry, Samuel H., Lancaster, Ohio. Sign. 1,456,230; May 22.
G. C. A. Manufacturing Company, The. (See Grinnell, Harold D., assignor.)
Gail, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Box bedspring. 1,455,872; May 22.
Gail, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bedspring. 1,455,873; May 22.
Gallien, Addison J., Upper Montclair, N. J., assignor to R. Hoe and Co., New York, N. Y. Marginal printing. 1,456,182; May 22.
Gardner, Charles F. (See Williams, Harry W., assignor.)
Garritson, Henry R., Kokomo, Ind. Basket. 1,456,376; May 22.
Geist, Harry F., Sumter, S. C. Magneto. 1,456,001; May 22.
General American Tank Car Corporation. (See Weaver, Robert R., assignor.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Bennett, Frank S., assignor.)
General Electric Company. (See Burnham, Joseph L., assignor.)
General Electric Company. (See Doane, Leroy C., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Fogler, Ben B., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Ipsen, Carl L., assignor.)

General Electric Company. (See Johannesen, Svend E., assignor.)
General Electric Company. (See Mackay, George M. J., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Westphal, Hans, assignor.))
General Electric Company. (See Wilkinson, James, assignor.)
General Fireproofing Company. (See Schmitz, Fred A., assignor.)
Gengras, Alfred J. (See Yorgensen, Paul L. L., assignor.)
Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire tensioning and twisting machine. 1,456,127; May 22.
Gibson and Gibson. (See Kelly, R., and Long, assignors.)
Gifin, Alfred R., assignor to J. E. Heene, Cleveland, Ohio. Oil purifier. 1,455,911; May 22.
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilmore, Joseph, Seattle, Wash. Oil burner. 1,455,874; May 22.
Girl, Christian, and H. S. Jandus, Kalamazoo, Mich; said Jandus assignor to said Girl. Machine for cambering and tempering metal. 1,456,489; May 22.
Girl, Christian, and H. S. Jandus, Kalamazoo, Mich.; said Jandus assignor to said Girl. Machine for cambering and tempering metal. 1,456,490; May 22.
Glaser, Maurice M., Charleston, S. C. Ceiling fan. 1,456,433; May 22.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp bracket. 1,455,784; May 22.
Goodchild, Charles, assignor of one-half to J. J. McGinley, Oakland, Calif. Means for holding the stationary element of a coaster brake. 1,456,103; May 22.
Gookin, Sylvester L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for setting fasteners. 1,456,002; May 22.
Goss, John H., and E. L. Wolff, Waterbury, Conn., assignors to Scovill Manufacturing Company. Casting apapratus. 1,456,231; May 22.
Governform Corporation. (See Scheinman, Louis J., assignor.)
Graff, Joseph F., Milwaukee, Wis. Towing device. 1,455,875; May 22.
Graham, Thomas W., Blue Mountain, Miss. Hame tug. 1,456,020; May 22.
Granzow, Carl A. (See Mueller, J. G., and Granzow.)
Granzow, Henry M. (See Mueller, J. G., and Granzow.)
Grassman Edward C., Newark, N. J., assignor to H. C. Schick, Inc. Safety clasp for jewelry. 1,456,305; May 22.
Granman, Leon, Denver, Colo. Lid brace. 1,455,876; May 22.
Greene, Ambrose E., Corning, Calif. Rotary engine. 1,456,232; May 22.
Greenwood, Edward et al. (See Forsman, Andrew, assignor.)
Greenwood Levi H., et al., trustees. (See Lloyd, Marshall B., assignor.)
Greve, Herman L., New York N. Y. Cordage wrapper and package. 1,455,838; May 22.
Griffin, William G., Washington, D. C. Fuel economizer. 1,456,057; May 22.
Griffith, Webster E. (See Meeker, Allen C., assignor.)
Grigas, Joseph, Shenandoah, Pa. Delivery box. 1,455,877; May 22.
Grinnell, Harold D., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass. Fuse-plug puller. 1,455,878; May 22.
Gronlund, Olaf A., Fargo, N. Dak. Guard for writing implements. 1,455,879; May 22.
Grützner, Arthur, Meissen-on-the-Elbe, Germany. Central lubricator provided with a distributing roller rotating within an oil reservoir and a device for obtaining a permanently-uniform oil level within such reservoir. 1,456,306; May 22.
Guelbaum, David, Syracuse, N. Y. Grain-cutting machine with automatic scoops. 1,456,003; May 22.
Gunther, George E., St. Paul, Minn. Internal-combustion engine. 1,456,004; May 22.
Gwinn, George W., New York, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Machine for applying stamps, labels, or sealing strips to packages. 1,456,307; May 22.
Hackstaff, George C., Denver, Colo. Screening and sizing process and apparatus. 1,455,785; May 22.
Hadley, Walter C., New York, N. Y. Phonograph record. 1,456,434; May 22.
Hagen, Minnie, Ellinwood, Kans. Sifter. 1,456,435; May 22.
Haigh, William C., Porth, Wales. Appliance for playing fishing games. 1,456,308; May 22.
Haldeman, Paul C., assignor to Lukens Steel Company, Coatesville, Pa. Indicator for the adjusting screws of rolling mills. 1,456,491; May 22.
Hale, Frank S., Long Beach, Calif. Core for making pipes and the like. 1,456,058; May 22.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Demand meter. 1,456,104; May 22.
Hamilton, Robert W., Providence, R. I. Emblem holder. 1,455,839; May 22.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. 1,455,880; May 22.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. 1,455,881; May 22.
Hammond, Louis E., Hackensack, N. J., and H. A. Smith, Yonkers, N. Y.; said Hammond assignor to E. J. Marston, Greenwich, Conn. Illusion appliance. 1,456,233; May 22.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hand regulating valve for rotation motors. 1,456,234; May 22.
Hard, Merrill W., Detroit, Mich., assignor of one-half to W. L. Mack, Chicago, Ill. Chair. 1,456,235; May 22.
Harding, Elmon D., Montevideo, Minn. Memorial tablet and grave marker. 1,455,882; May 22.
Hardy, Marcel A., Hennebont, France. Manufacture of extruded metal sections. 1,456,128; May 22.
Harried, Knute, Sacred Heart, Minn. Animal trap. 1,456,377; May 22.
Harris, Jack, Oklahoma, Okla. Incubator. 1,456,005; May 22.
Harris, Samuel W., Camden, N. J. Substitute end fastener for music rolls. 1,456,309; May 22.
Harrison, George W., assignor to G. R. Baldock & Co. Limited, London, England. Expanding bracelet, belt, or the like. 1,455,883; May 22.
Harrop, William P., Reilly, and P. F. Farrell, New Bedford, Mass. Split-lap preventer. 1,455,884; May 22.
Harter, Noah S., Waukegan, assignor of one-third to A. T. Weaver and one-third to G. F. Rummel, Chicago, Ill. Indicator. 1,456,310; May 22.
Hartman, William W., Los Angeles, Calif. Sugar-washing and water-measuring device. 1,456,270; May 22.
Hartmann, Robert, Uster, Switzerland. Machine for uniting together the threads of two warps. 1,456,006; May 22.
Hartog, Stephen D., St. Louis, Mo. Sheet-metal piston. 1,455,786; May 22.
Hartson, Frederick C., Rosedale, Kans., and G. A. Donath Kansas City, Mo. Valve-stem-key tool. 1,456,007; May 22.
Hatchett, James H. (See Bennett, A., and Hatchett.)
Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
Havens, Beckwith. (See Witmer, C. C., and Havens.)
Heckscher, Edwin M. (See Hofmann, Carl J., assignor.)
Hedglin, Daniel A., San Francisco, Calif. Automobile wheel lock. 1,456,021; May 22.
Hedwall, Adolphe. (See Lidholm, K. F., and Hedwall.)
Heene, J. E. (See Giffin, Alfred R., assignor.)
Heinkel, Christian F., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track belt. 1,456,378; May 22.
Heinkel, John, St. Louis, Mo Garage drain. 1,456,105; May 22.
Heldrich, Andrew, Philadelphia, Pa., assignor to Cade Manufacturing Company, Shelby, N. C. Typographical machine. 1,456,436; May 22.
Hemen, Catherine M., Washington, D. C. Compound for cleaning aluminum. 1,456,486; May 22.
Henson, Fred, St. Louis, Mo. Attachment for washing machines. 1,456,271; May 22.
Hepburn, Donald M., Philadelphia, Pa. Surfacing composition for highways and the like. 1,456,492; May 22.
Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company. Diesel engine. 1,455,787; May 22.
Hess, Aaron, New York, N. Y. Pipe drain. 1,456,437; May 22.
Hess, Bernhard, Forest Park, Ill. Protector for engine hoods. 1,456,236; May 22.
Heseelman, Knut J. E., Saltsjo-Storangen, Sweden. Liquid filter. 1,456,438; May 22.
Hessmer, Frederick W., assignor to American Mesucal Supply Company, Jersey City, N. J. Thread-cutting machine. 1,456,439; May 22.
Higby, Jesse E., Whiting, Kans. Timer. 1,456,485; May 22.
Hildebrand, Reinhard, Webster Groves, assignor to Fulton Iron Works Company, St. Louis, Mo. Pump. 1,455,788; May 22.
Hill, George C., Yonkers, N. Y. Vanity case. 1,455,840; May 22.
Hise, John P., Hightown, Va. Flash-light attachment for guns. 1,456,440; May 22.
Hoard, Milo C., Stryker, Ohio. Combination safe lock. 1,455,912; May 22.
Hodgson, Harriette E., New York, N. Y. Fire-rescue device. 1,456,106; May 22.
Hoe, R., and Co. (See Gallien, Addison J., assignor.)
Hofmann, Carl J., New York, assignor of one-half to E. M. Heckscher, Belle Harbor, N. Y. Phonograph. 1,455,913; May 22.
Hoffman, Orville, Modoc, Ill. Thrashing-machine attachment. 1,456,441; May 22.
Höganäs Billesholms Aktiebolag. (See Sieurin, Sven E., assignor.)

Holder, Andrew T., San Francisco, Calif. Theft-preventive device. 1,456,272; May 22.
Hole, Charles C., Fremont, Nebr. Automatic train-stopping apparatus. 1,456,442; May 22.
Hole, Charles C., Fremont, Nebr. Track device for automatic train-stopping apparatus. 1,456,443; May 22.
Holick, Steven, Millsboro, Pa. Air valve for inner tubes. 1,456,444; May 22.
Holman, William E., et al., trustees. (See Lloyd, Marshall B., assignor.)
Holmes, Oscar J., Tulsa, Okla. Apparatus for automatically extinguishing fires in oil tanks and other structures. 1,455,789; May 22.
Holt, Leddra W. (See Shivers, P. F., and Lindberg, assignors.)
Hooper, Percy N., London, England. Spout. 1,456,445; May 22.
Hopkins, Nevil M., New York, N. Y. Desiccating and incinerating range. 1,456,422; May 22.
Horsley, Robert L., Memphis, Tenn. Device for drawing the ends of a band or bale tie together. 1,456,311; May 22.
Hosbein, Louis H., assignor to M. H. Detrick Co., Chicago, Ill. Furnace-arch construction. 1,456,023; May 22.
Hotaling, Omar J., East Orange, N. J. Display rack. 1,456,446; May 22.
Hough, Azel C., Janesville, Wis. Cord-gripping appliance. 1,456,237; May 22.
Hough, Johnston T., Denver, Colo. Beet loader. 1,455,914; May 22.
Hultman, Gustave T. (See Dixon, John G., assignor.)
Hunt, George S., Chicago, Ill. Plaque or similar article. Des. 62,398; May 22.
Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
Ikeda, Kwatsuji. (See Ito, Tamekichi, assignor.)
Ilsemann, Friedrich, Remscheid, Germany. Jack. 1,456,379; May 22.
Imhoff, Karl, Essen, Germany. Combined sludge separating and drying basin. 1,456,312; May 22.
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
International Concrete Corporation. (See Wightman, Sherburne H., assignor.)
Ipsen, Carl L., Schenectady, N. Y., assignor to General Electric Company. Electric resistance furnace. 1,456,107; May 22.
Irby, Matilda B. (See Bonifacino, L. C., and Irby.)
Ito, Tamekichi, assignor of one-half to K. Ikeda, Tokyo, Japan. Paving stone. 1,456,259; May 22.
Ivancic, Alma, administratrix. (See Ivancic, Milan.)
Ivancic, Milan, deceased, by A. Ivancic, administratrix. Kilchberg, Switzerland. Baking device. 1,456,238; May 22.
Ivory, James W. (See Arrowsmith, George M., assignor.)
Jandus, Herbert S. (See Girl, C., and Jandus.)
Javal, Fernand, Paris, France. Bottle. Des. 62,390; May 22.
Jenkins, Wilton F., Richmond, Va. Spark plug. 1,456,129; May 22.
Jenner, Alfred L., et al. (See Jenner, Charles E., assignor.)
Jenner, Charles E., assignor of one-half to G. A. Crosland and one-fourth to A. L. Jenner, London, England. Machine for marking garments. 1,456,447; May 22.
Jensen, Christian E., Cuyahoga Falls, Ohio. Egg beater. 1,456,448; May 22.
Jessen, Christian. (See Schulz, P. H., and Jessen.)
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Coil and spool construction. 1,456,108; May 22.
Johanson, Emil G., Chicago, Ill. Timing device. 1,456,313; May 22.
Johnson, Elmer E., and J. Kershaw, Joplin, Mo. Display device. 1,456,273; May 22.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater system. 1,455,957; May 22.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,455,958; May 22.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,456,060; May 22.
Johnson, Emil L., and O. Lundsten, Attleboro, Mass. Belt buckle. 1,456,130; May 22.
Johnson, John H. L., Springfield, Tenn. Tobacco smoking and curing apparatus. 1,455,915; May 22.
Johnson, Moses K., Unadilla, Ga. Repair spoke socket. 1,456,449; May 22.
Johnstone, Gilbert L., Manhasset, N. Y. Container for cigarettes and the like. 1,456,060; May 22.
Jones, Edgar R., Kansas City, Mo. Toy. 1,456,239; May 22.
Jones, Jay D., New York, N. Y. Headlight dimmer. 1,455,956; May 22.
Jones, Mason H. (See MacDowell, G. J., and Jones.)
Jones, Robert E., Evergreen, Colo. Slack-burning stove and furnace. 1,456,380; May 22.
Jordan, George C., Eau Claire, Wis. Ventilator. 1,456,381; May 22.
Jowett, Thompson, London, and C. E. Squire, Sheffield, England. Calculating machine. 1,456,061; May 22.
Judd, Henry S. (See Craver, Howard S., assignor.)
Jury, Frank W., Milwaukee, Wis. Gear-cutting machine. 1,456,240; May 22.
Kalaf, John, jr., Meta, Mo. Diaphragm violin. 1,455,916; May 22.
Kammerer, William. (See Rickenbacker, A., and Kammerer.)
Karcher, David P., Somerville, Mass. Hoist. 1,456,131; May 22.
Kaufman, John. (See Noe, C. S., and Kaufman.)
Keep, William J., Detroit, Mich. Rendering metal non-oxidizable and the metal. 1,456,274; May 22.
Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Power plant. 1,455,790; May 22.
Kellogg Manufacturing Company. (See Vincent, Jesse G., assignor.)
Kellogg Switchboard and Supply Company. (See Yanochowski, George R., assignor.)
Kelly, Adelbert F., Spokane, Wash. Vehicle wheel. 1,456,275; May 22.
Kelly, Albert A., assignor to Borax Consolidated Limited, London, England. Flux or solvent for use in technical process. 1,455,791; May 22.
Kelly, Raymond, and G. E. Long, assignors of one-third to Gibson and Gibson, Chicago, Ill. Doll. Des. 62,400; May 22.
Kelly Springfield Tire Co. (See McClenathen, Robert, assignor.)
Kelly, William F., Greenwood, Miss. Pneumatic jack. 1,455,841; May 22.
Kelly, William F., Greenwood, Miss. Implement for writing. 1,455,842; May 22.
Kendall, William G., Newark, N. J. Vanity case. 1,456,450; May 22.
Kershaw, Joseph. (See Johnson, E. E., and Kershaw.)
Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Paper box. 1,455,792; May 22.
Key Boiler Equipment Company. (See Key, Frederick E., assignor.)
Key, Frederick E., St. Louis, Mo. Boiler plug. 1,456,314; May 22.
Key, Frederick E., assignor to Key Boiler Equipment Company, St. Louis, Mo. Boiler plug. 1,456,315; May 22.
Keyworth, George A., et al., trustees. (See Lloyd, Marshall B., assignor.)
Khan, Misree, Cincinnati, Ohio. Combined door and step structure. 1,456,132; May 22.
Killen, Edward B., London, England. Pneumatic tire. 1,456,062; May 22.
Kincannon, Victoria A., New York, N. Y. Baking oven. 1,456,382; May 22.
Kindt, Ernest T., Cleveland, Ohio. Dowel pin. 1,455,793; May 22.
Kirkwood, Maclean, East Orange, N. J., assignor to American Telephone and Telegraph Company. System for measuring distortion. 1,455,843; May 22.
Kivian, John L., Boston, Mass. Jar-trimming machine. 1,456,276; May 22.
Knight, George B., Camden, N. J. Head-protection attachment for caps, hats, or other headgear. 1,456,183; May 22.
Knight, Grace P., executrix. (See Knight, Richard D.)
Knight, Richard D., deceased, Providence, R. I.; G. P. Knight, executrix. Combined advertising device and temporary savings bank. 1,456,133; May 22.
Knothe Brothers Co. (See Knothe, Frank F., assignor.)
Knothe, Frank F., Ridgewood, N. J., assignor to Knothe Brothers Co., Inc., New York, N. Y. Belt buckle. 1,455,794; May 22.
Knowlton, M. D., Company. (See De Smith, Henry, assignor.)
Koch, Frank J., Hershey, Nebr. Combination hammer. 1,456,383; May 22.
Kreitzer, Harry R., Seattle, Wash. Wall construction. 1,456,063; May 22.
Krey Carl, Battle Creek, Mich. Automobile bed. 1,456,384; May 22.
Kritz and Bauer. (See Kritz, Frank, assignor.)
Kritz, Frank, assignor to Kritz and Bauer, Detroit, Mich. Windshield wiper. 1,456,316; May 22.
Kroehle, Oscar, Lakewood, assignor to The Protex Signal Company, Cleveland, Ohio. Front for a traffic-directing signal lamp. Des. 62,401; May 22.
Kroehle, Oscar, Lakewood, assignor to The Protex Signal Company, Cleveland, Ohio. Front for a traffic-directing signal lamp. Des. 62,402; May 22.
Kroehle, Oscar, Lakewood, assignor to The Protex Signal Company, Cleveland, Ohio. Front for a traffic directing signal lamp. Des. 62,403; May 22.
Kroutl, Emil, Budweis, Czechoslovakia. Holder for crayons or the like. 1,456,241; May 22.
Krpata, Edward J., Higganum, Conn. Vehicle wheel. 1,456,451; May 22.
Kvarnstrom, Alfred T., Detroit, Mich. Fuse box. 1,456,385; May 22.
Lake, Eva J., Greensburg, Pa. Attachment for candlesticks and candleholders. 1,456,134; May 22.
Lamoreaux, William F., Isabella, Tenn. Process and apparatus for making sulphuric acid. 1,456,064; May 22.

Lamoreaux, William E., Isabella, Tenn. Manufacture of sulphuric acid. 1,456,065; May 22.
Lang, John, assignor of one-half to F. Peer, Philadelphia, Pa. Vehicle wheel. 1,455,844; May 22.
Lantz, George H., Omaha, Nebr. Resilient vehicle wheel. 1,456,066; May 22.
Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Assembling buttons. 1,456,024; May 22.
Lauer, William E., assignor, by mesne assignments, to Athletic Health Chair Company, St. Louis, Mo. Exerciser. 1,456,317; May 22.
Laurel Motors Corporation. (See Roof, Robert M., assignor.)
Laury, Titus H., Detroit, Mich. Saw sharpening and setting machine. 1,455,917; May 22.
Lea, Norman, London, England. Modulated signaling system particularly applicable to wireless signaling. 1,455,845; May 22.
Leahy, Richard A., Bonne Terre, Mo. Apparatus for screening granular materials. 1,456,067; May 22.
Lee, Albert J. F., Montreal, Quebec, Canada. Rotating scraper for cleaning the skin of vessels. 1,456,386; May 22.
Lee, Harry M., Chillicothe, Ill. Auxiliary carburetor. 1,456,025; May 22.
Leedy Manufacturing Company. (See Leedy, Ulysses G., assignor.)
Leedy, Ulysses G., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Drum and trap combination. 1,456,242; May 22.
Leitner, Henry, Westminster, London, England. Screw propeller. 1,456,387; May 22.
Lenders, Adolph W. H., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Flushing system for starch tables. 1,456,243; May 22.
Lepley, Daniel F., Connellsville, Pa. Oscillatory dump. 1,456,388; May 22.
Levesque, Philias, St. Boniface, Manitoba, Canada. Horseshoe. 1,455,918; May 22.
Lewis, Leo L., Plainfield, N. J., assignor to Carrier Engineering Corporation, New York, N. Y. Air conditioning or humidifying and heating system. 1,455,846; May 22.
Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Roll-over molding machine. 1,456,318; May 22.
Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,456,319; May 22.
Leysieffer, Gustav. (See Balke, P., and Leysieffer.)
Lidholm, Knut F., and A. E. Hedwall, Denver, Colo. Fuel mixer. 1,456,135; May 22.
Lindberg, John F. (See Shivers, P. F., and Lindberg.)
Linden, John O., Albuquerque, N. Mex. Massage device. 1,456,452; May 22.
Lindenmayer, William, New York, N. Y. Refill for vanity cases. 1,456,453; May 22.
Lindenmayer, William, New York, N. Y. Toilet case. 1,456,454; May 22.
Linkowski, Ludwig, Altenbochum, Germany. Jig-conveyer motor. 1,456,389; May 22.
Liston, John L. (See Rode, F. J., Frost, and Liston.)
Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to L. H. Greenwood, G. A. Keyworth, Gardner, and W. E. Holman, Leominster, Mass., trustees. Method of and means for binding the edges of reed fabric and the like. 1,455,959; May 22.
Lober, George H., Toledo, Ohio. Machine for making connector tubes for radiators. 1,455,919; May 22.
Logan, Harry C., Rockbridge, Ohio. Dirigible headlight mounting. 1,456,184; May 22.
Logan, Howard, Chicago, Ill. Tank. 1,455,796; May 22.
Logan, Lloyd, Pittsburgh, Pa. Means for controlling a production process. 1,455,795; May 22.
Long, Gertrude E. (See Kelly, R., and Long.)
Lord, Hugh C., Erie, Pa. Knuckle joint. 1,456,068; May 22.
Luce, Thomas C., Stratford, Conn. Chain-welding machine. 1,456,026; May 22.
Ludlow Typograph Company. (See Reade, William A., assignor.)
Ludwig, Max, Berlin-Lichterfelde, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Safety device for plants delivering inflammable liquids. 1,456,390; May 22.
Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Stahl, Karl, assignor.)
Lukens Steel Company. (See Haldeman, Paul C., assignor.)
Lundsten, Olof. (See Johnson, E. L., and Lundsten.)
Lusk, John W., Denver, Colo. Shock absorber. 1,455,920; May 22.
Lunkkonen, Eric, New York, N. Y. Pitchfork. 1,456,455; May 22.
Lynn Machine Screw Company. (See Chipman, Mark W., assignor.)
McCann, Michael, Glenmorris, assignor to Frederick Osann Company, New York, N. Y. Friction-clutch mechanism. 1,456,320; May 22.
McClenathen, Robert, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Rubber-tire-forming roller. 1,456,109; May 22.
McCready, Joseph H. (See Cornwell, E. E., and McCready.)
McGee, Edward S., Rock Hill, S. C. Valve. 1,456,244; May 22.
McGinley, John L. (See Goodchild, Charles, assignor.)
McGuire, Patrick W., Tottenville, N. Y. Article-holding clip. 1,456,321; May 22.
McKenzie, James. (See Atkinson, D. S., and McKenzie.)
McKenzie, Thomas J., Barberton, Ohio. Valve. 1,456,277; May 22.
McLaren Automobile Signal Co. (See McLaren, Peter, assignor.)
McLaren, Peter, Whittier, Calif., assignor to McLaren Automobile Signal Co. Automobile signal. Des. 62,405; May 22.
McLaughlin, Robert E., Tracy, Calif. Surge-relief device. 1,456,391; May 22.
McNeill, Roderick W., Boston, Mass. Turbine water wheel. 1,456,322; May 22.
McPhee, Hector, et al. (See Forsman, Andrew, assignor.)
McPherson, Floyd H., Los Angeles, and J. M. Abrams, San Francisco, Calif. Treating woods and other porous substances. 1,456,323; May 22.
Maage, Alfred E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,455,960; May 22.
Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Apparatus for heating and cooling. 1,456,136; May 22.
MacDowell, Glenn J., and M. H. Jones, assignors to Super Reflex Company, Chicago, Ill. Camera-shutter-operating mechanism. 1,456,137; May 22.
Mack, W. Lewis. (See Hard, Merrill W., assignor.)
Mackay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Seal for electric devices. 1,456,110; May 22.
MacKay, Vasil, Washington, D. C. Auxiliary feed block for furnaces. 1,456,138; May 22.
Mackensen, Fritz, Worpswede, near Bremen, Germany. Asparagus-cutter. 1,455,797; May 22.
Mackintosh, John, Paisley, Scotland. Automatic circuit closer. 1,456,027; May 22.
Magee, William H., Wheeling, W. Va. Glass dish. Des. 62,404; May 22.
Magrady, Joseph J., Chicago, Ill. Platform-scale foundation. 1,455,798; May 22.
Maier, August J., assignor to Dexter Manufacturing Company, Chicago, Ill. Picture hanger. 1,455,961; May 22.
Maier, William, St. Louis, Mo. Clutch. 1,456,324; May 22.
Mallory, Harry C., Belleport, assignor, by mesne assignments, to American Radiator Company, New York, N. Y. Producing corrugated, expansible collapsible elements. 1,456,069; May 22.
M. & P. Enterprises Limited et al. (See Morrison, Charles H. W., assignor.)
Manell Building Block & Tile Company, The. (See Eisenmann, John, assignor.)
Mang, Edward B., Los Angeles, Calif. Dust cap. 1,456,245; May 22.
Markowitz, Philip W., Brooklyn, N. Y. Envelope. 1,456,325; May 22.
Marshall, Frederick D., Westminster, London, England. Retort for the treatment of carbonaceous or other materials. 1,456,392; May 22.
Marshall, George E., San Diego, Calif. Can opener. 1,456,246; May 22.
Marston, Edgar J., et al. (See Adams, Frank J., assignor.)
Marston, Edgar J. (See Hammond, L. E., and Smith, assignors.)
Martin, Elmer R., assignor to Elgin Street Sweeper Co., Elgin, Ill. Street sweeper. 1,456,393; May 22.
Martin, Jesse C., jr., San Francisco, Calif. Plug cock and lubricating means therefor. 1,456,326; May 22.
Martini & Hüneke Maschinenbau-Aktien-Gesellschaft. (See Ludwig, Max, assignor.)
Marx, Karl F., Detroit, Mich. Machine for turning crank pins of crank shafts. 1,456,028; May 22.
Matthews, Herbert M., Worton, Md. Leak detector for tire tubes. 1,455,962; May 22.
Maxey, William W., Venice, Calif. Safety pin. 1,456,070; May 22.
Mechanical Perfecting Corporation. (See Downe, Frank W., assignor.)
Meeker, Allen C., assignor of one-half to W. E. Griffith, Madrid, N. Y. Tool for removing ties from bottle necks. 1,456,185; May 22.
Meister, Walter F., Collinsville, Ill. Lithopone and manufacture. 1,455,963; May 22.
Meitner, Elemer, Brooklyn, assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y. Range clock. 1,455,799; May 22.
Merrill Process Company. (See Macdonald, John W. F., assignor.)
Merritt, Edward F., assignor of one-half to F. L. Merritt, East Boston, Mass. Cleaning device. 1,456,394; May 22.
Merritt, Frank L. (See Merritt, Edward F., assignor.)
Meutsch, Charles C., Buffalo, N. Y. Mattress, cushion, and seat. 1,455,847; May 22.
Meyer, Emil A., Houston, Tex. Automatic time switch. 1,456,139; May 22.

Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Wardrobe trunk. 1,455,964; May 22.
Mielnicki, Aliekxander, Brooklyn, N. Y. Shackle lock. 1,455,921; May 22.
Miller, Isidore L., et al. (See Miller, Herman, assignor.)
Miller, Herbert H., Davenport, Iowa. Chiropractic tabl. 1,455,922; May 22.
Miller, Herman, assignor of one-fourth to N. Miller, one-fourth to N. Miller, and one-fourth to I. L. Miller, New York, N. Y. Safety guard. 1,455,800; May 22.
Miller, Horatio, Orange, N. J. Seat box for Ford sedans. 1,456,247; May 22.
Miller, Lauritz N., Eugene, Oreg. Fruit-washing machine. 1,456,456; May 22.
Miller, Nathan, et al. (See Miller, Herman, assignor.)
Miller, Norman, et al. (See Miller, Herman, assignor.)
Mills, Thomas M., and J. T. Clark, Fresno, Calif.; said Mills assignor to said Clark. Automatic package separator for conveyer systems. 1,456,029; May 22.
Minlnberg, Nathan, assignor to Bran Products Company, Dickinson, N. Dak. Apparatus for producing flaked and other food products. 1,455,923; May 22.
Mitchell, Anna N. (See Wall, W. A., and Mitchell.)
Moerloose, Germaine, assignor to J. Struelens, New York, N. Y. Water heater. 1,456,487; May 22.
Moffatt, William J., Indianapolis, Ind. Antislip device. 1,455,924; May 22.
Molby, Walter D., Baldwin, Kans. Apparatus for physical culture. 1,456,030; May 22.
Molby, Walter D., Baldwin City, Kans. Physical-culture apparatus. 1,456,031; May 22.
Molniar, Albert G., Albion, Mich. Automobile and truck turner. 1,456,457; May 22.
Moll, Walter, and A. W. Angel, Evansville, Ind. Insectproof cup for furniture. 1,456,395; May 22.
Monckton, Sawyer Y., San Francisco, Calif. Lubricating mechanism. 1,456,327; May 22.
Moore, Matthew S., assignor to Cowlishaw Walker & Company (1920) Limited, London, England. Coal-cutting and similar machine. 1,455,925; May 22.
Moore, Roswell A., assignor to Waterbury Buckle Co., Waterbury, Conn. Garter trimming. 1,455,926; May 22.
Moore, Virginia V., Los Angeles, Calif. Sewing accessory. 1,456,032; May 22.
Moorhouse, Alfred, Jackson, assignor to Packard Motor Car Company, Detroit, Mich. Clutch. 1,455,848; May 22.
Moorman, J. Harry. (See Anderson, Edward, assignor.)
Moravec, John, Vancouver, British Columbia, Canada. Rossing machine. 1,456,328; May 22.
Morehouse, Eugene, assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Safety catch. 1,456,140; May 22.
Morgan & Wright. (See Malloy, John H., assignor.)
Morgan, William. (See Anderson, E. T., and Morgan.)
Morison, Donald B., Hartlepool, England. Method of and apparatus for preventing the absorption of air by boiler feed water or other liquid. 1,455,927; May 22.
Morrill, Charles F., Boston, Mass. Fire escape. 1,455,928; May 22.
Morris, Louis R., Taft, Calif. Shaft drive for combination drilling and well pulling. 1,456,186; May 22.
Morris Paper Mills. (See Moyer, Charles L., assignor.)
Morris, Jasper N., Hattiesburg, Miss. Universal joint. 1,456,329; May 22.
Morrison, Charles H. W., assignor to M. & P. Enterprises Limited and W. H. Peat, London, England. Electric heater. 1,456,141; May 22.
Morse, Francis J., Norwich, England. Aircraft. 1,455,801; May 22.
Moses, William B., Portland, Me. Electric starting and generating apparatus. 1,456,033; May 22.
Moss, Charles, New York, N. Y. Attaching device for nonskid chains. 1,456,071; May 22.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Cooling system for internal-combustion engines or the like. 1,456,072; May 22.
Moyer, Charles L., assignor to Morris Paper Mills, Chicago, Ill. Machine for forming box blanks. 1,456,248; May 22.
Moyer, Charles L., assignor to Morris Paper Mills, Chicago, Ill. Machine for forming box blanks. 1,456,249; May 22.
Mueller, August J., Chicago, Ill. Wall construction. 1,456,330; May 22.
Mueller Engineering Company. (See Mueller, Frank, assignor.)
Mueller, Frank, assignor to Mueller Engineering Company, Scranton, Pa. Hood clamp. 1,456,306; May 22.
Mueller, John G., C. A. Granzow, and H. M. Granzow, Dayton, Ohio. Lubricating cup. 1,455,840; May 22.
Mullally, John B., Seattle, Wash. Liquid-level gauge. 1,455,965; May 22.
Mulloy, John H., Detroit, Mich., assignor to Morgan & Wright. Cast-steel tire mold. 1,456,187; May 22.
Munsmer, Charles, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Gas and air mixer. 1,456,250; May 22.
Murphy Iron Works. (See Bigelow, Frank B., assignor.)
Murphy, John E., Milwaukee, Wis. Shoe. 1,456,251; May 22.
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murphy, William, Minneapolis, Minn. Cob currycomb. 1,456,331; May 22.
Nalty, Herbert, London, England. Jewelry trinket. Des. 62,406; May 22.
Nash, Frederic J., Brooklyn, N. Y. Drying and preparing fertilising materials. 1,456,332; May 22.
Necrosan Co., The. (See Rayder, Joseph A., assignor.)
Neff, Edward D., Marysville, Pa. Spotlight-projecting device. 1,455,929; May 22.
Neiman, Howard S. (See Rose, William H., assignor.)
Neinow, Otto J., Merrjill, Wis. Bobsled. 1,456,142; May 22.
Nelson, Einer M., Providence, R. I. Radiator cap. 1,456,333; May 22.
Ness, Fred, Lake Andes, S. Dak. Wire tightener. 1,456,143; May 22.
Nessler, Charles, New York, N. Y. Device for waving natural hair. 1,455,802; May 22.
Newell, Minton H., assignor to The Alloys Company, San Francisco, Calif. Metal dust and making the same. 1,456,035; May 22.
Newman, Albert G., Stanhope, Iowa. Feed cutter. 1,456,034; May 22.
Nichols, Starratt D., Buffalo, N. Y. Cup and saucer. Des. 62,407; May 22.
Nielsen, Andreas, San Juan Bautista, Calif. Folding float. 1,456,397; May 22.
Nissen, Eugene F., Alameda, Calif. Envelope fastener. 1,456,036; May 22.
Nobis, Harry M., East Cleveland, Ohio. Humidifier for furnaces. 1,455,930; May 22.
Noe, Charles S., Chicago, and J. Kaufman, Fox Lake, Ill. Ignition device. 1,456,188; May 22.
Nofsinger, Frank B., Kansas City, Mo. Cartridge box. 1,455,803; May 22.
Noland, David E., assignor of one-half to G. T. Alward, Marshall, Ind. Brooder. 1,456,398; May 22.
Nordell, Carl, Gilbertville, Mass. Roll cover. 1,456,458; May 22.
Nordstrom, Elof, East Orange, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Bottle-capping machine. Re15,612; May 22.
North Electric Manufacturing Company, The. (See Arter, Roy C., assignor.)
Novinski, Stanley, assignor of one-half to S. Spryszak, Braznell, Pa. Nut lock. 1,455,804; May 22.
Nuanes, Alfred, Albuquerque, N. Mex. Aeroplane propeller. 1,456,008; May 22.
Nyhagen, Barney R., New York, N. Y. Gas-engine valve. 1,456,144; May 22.
Ogden, Ashley G., Baltimore, Md. Photographic-printing device. 1,456,073; May 22.
Oliphant, Alva L., Washington, Kans. Loading and unloading device. 1,456,278; May 22.
Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
Osann, Frederick Company. (See McCann, Michael, assignor.)
Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
Owens Bottle Company, The. (See Owens, Michael J., assignor.)
Owens Bottle Company, The. (See Solon, Faustin J., assignor.)
Owens, Michael J., assignor to The Owens Bottle Company, Toledo, Ohio. Mechanism for conveying hot glassware. 1,455,966; May 22.
Overton, Charles S., Baltimore, Md. Casing for parking lamps. Des. 62,408; May 22.
Packard Motor Car Company. (See Blaine, Walter E., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Page, Victor W., Kew Gardens, N. Y. Lamp support. 1,456,459; May 22.
Page, Victor W., Kew Gardens, N. Y. Front-wheel brake. 1,456,460; May 22.
Page, Victor W., Kew Gardens, N. Y. Oil pump. 1,456,461; May 22.
Pajeau, Charles H., Evanston, Ill. Toy doll. Des. 62,409; May 22.
Paine, Geo. L., Co. (See Chabot, Joseph O., assignor.)
Palmer, Elbridge W., assignor to J. F. Tapley Co., Long Island City, N. Y. Binder's pressboard. 1,456,180; May 22.
Pals, Henry H., Meservey, Iowa. Door. 1,455,967; May 22.
Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Manually-controlled quick-make and quick-break knife switch. 1,455,931; May 22.
Parker, George A., Brockton, Mass. Feeding device for tack-making machines. 1,456,190; May 22.
Parker, George D. (See Twomley, Herbert E., assignor.)
Parrott, Thomas E., Tulsa, Okla. Depth gauge for tanks. 1,456,334; May 22.
Parsons, Frederick W., Cleveland, Ohio. Thermal-control cable. 1,455,805; May 22.
Paterson, William G., assignor to The Flash Gun Limited, Glasgow, Scotland. Aim-practicing apparatus. 1,456,191; May 22.

Patterson, Arthur L., Albemarle, N. C. Dental floss holder. 1,456,279; May 22.
Pausch, Oliver W., San Francisco, Calif., assignor to Ansco Company, Binghamton, N. Y. Swinging spool carriage. 1,455,806; May 22.
Peabody School Furniture Company, The. (See Wolfe, Jacob J., assignor.)
Peacock, Samuel, assignor to Wheeling Steel & Iron Company, Wheeling, W. Va. Coating metals with metal phosphides. 1,456,252; May 22.
Peacock William G., Enderby, British Columbia, Canada. Saw support. 1,456,102; May 22.
Peak, William H., et al. (See Morrison, Charles H. W., assignor.)
Pecinka, Josef, Deutsch-Wagram, Austria. Ferrule for boiler tubes. 1,456,145; May 22.
Pederson, Nels, Trent, S. Dak. Governor for explosive engines. 1,455,807; May 22.
Peer, Frank. (See Lang, John, assignor.)
Penick & Ford, Ltd. (See Lenders, Adolph W. H., assignors.)
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Sand swab. 1,455,850; May 22.
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Pump swab. 1,455,851; May 22.
Perkins, Ulysses S., Lebanon, Ind. Brush-making machine. 1,455,932; May 22.
Pescara, Raul P., Barcelona, Spain. Differential drive for helicopters. 1,456,399; May 22.
Peterman, Harry A. B., Chicago, Ill. Vacuum cleaner. 1,456,033; May 22.
Petersen, Henry, Mount Auburn, Iowa. Spring support for harrows, etc. 1,456,253; May 22.
Petersen, Peter R., Salt Lake City, Utah, assignor to Coaster Company. Attachment for hand sleds. 1,456,335; May 22.
Peterson, William O., et al. (See Amberg, Walter E., assignor.)
Petroleum Heat and Power Company. (See Brown, Francis H., assignor.)
Philadelphia Textile Machinery Company, The. (See Schwartz, W. M., and Bogaty, assignors.)
Phil-Har-Chee Piano Player Corporation. (See Cheek, Tolbert F., assignor.)
Phillips, Wilber A., Muskegon, Mich. Thermometer. 1,456,400; May 22.
Phinney, Mabel L., Fergus Falls, Minn. Doll. Des. 62,410; May 22.
Pierce, John, jr., Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Gas-tight joint for boiler casings removably mounted upon firepots. 1,456,254; May 22.
Pigeon, Albert M., Norristown, Pa. Yarn-tension device. 1,456,074; May 22.
Pike, Herbert, Chicago, Ill. Folding ironing board. 1,456,193; May 22.
Piston Research Corporation. (See Bramberry, Harry M., assignor.)
Plews, William J. (See Spencer, A. R., and Plews.)
Poston, Burton C., Chillicothe, Ohio. Couch bed. 1,456,146; May 22.
Potts, James, Seattle, Wash. Flytrap. 1,455,808; May 22.
Powell, Buren D., Kosse, Tex. Spool and thimble rack. 1,456,401; May 22.
Powers, Fred W., and M. O. Snediker, assignors to The Powers Regulator Co., Chicago, Ill. Thermostatic water mixer. 1,455,934; May 22.
Powers Regulator Co., The. (See Powers, F. W., and Snediker, assignors.)
Pratt & Whitney Company. (See Wood, Robert W., assignor.)
Pringle, William T., assignor to V. V. Fittings Company, Philadelphia, Pa. Electric switch. 1,456,336; May 22.
Proctor, Albert E., Bellingham, Wash. Insertible-tooth saw. 1,455,968; May 22.
Protex Signal Company, The. (See Kroehle, Oscar, assignor.)
Pullin, Cyril G., Isleworth, England. Method and means for controlling internal-combustion engines. 1,456,337; May 22.
Putnam, Tracy J., Boston, Mass. Agitating device. 1,456,147; May 22.
Pyle, D. Franklin, Washington, D. C., and J. Anderson, Catonsville, Md. Spark plug. 1,455,852; May 22.
Pyle, D. Franklin, Washington, D. C., and J. Anderson, Catonsville, Md. Apparatus for making spark plugs. 1,455,853; May 22.
Quad Stove Mfg. Co., The. (See Stein, Henry E., assignor.)
Quaker City Rubber Company. (See Daniel, Frank W., assignor.)
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,411; May 22.
Ralfs, Theodore, Davenport, Iowa. Saw vise. 1,456,338; May 22.
Ramsey, Oscar, Aulauf, Oreg. Saw sharpener. 1,456,402; May 22.
Ramsey, William W., Sterling, Colo. Hub liner. 1,455,935; May 22.
Ranney, William C., Elbridge, N. Y. Repairing or closing punctures in pneumatic tires and plug for that purpose. 1,456,403; May 22.
Rasck, George P., Des Moines, Iowa. Threshold weather strip. 1,456,037; May 22.
Rauh, Frank J., Bakersfield, Calif. Milk can. 1,456,404; May 22.
Rauh, Frederic H., South Orange, N. J. Movable-jawed tool. 1,456,339; May 22.
Ravenelle, Adelard E., Norwich, Conn. Shuttle eye. 1,456,405; May 22.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-cutting machine. 1,456,038; May 22.
Rayder, Joseph A., Philadelphia, Pa., assignor to The Necrosan Co., Inc., New York, N. Y. Embalming-fluid atomiser. 1,455,969; May 22.
Reade, William A., Evanston, Ill., assignor to Ludlow Typograph Company, Chicago, Ill. Typograph mechanism. 1,456,885; May 22.
Reeves, Milton O., assignor to Reeves Pulley Co., Columbus, Ind. Centerless grinder. 1,456,462; May 22.
Reeves Pulley Co. (See Reeves, Milton O., assignor.)
Reichard, Harold D., Akron, Ohio. Tire tread. Des. 62,412; May 22.
Reichard, Harold D., Akron, Ohio. Tire tread. Des. 62,413; May 22.
Reilly, Peter. (See Harrop, W., Reilly, and Farrell.)
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Renshaw, Charles E., East Orange, N. J. Recording apparatus for valves and the like. 1,456,148; May 22.
Renshaw, Charles E., East Orange, N. J. Recording apparatus for valves and the like. 1,456,149; May 22.
Rentz, George M., Wells, Minn. Phonograph. 1,456,039; May 22.
Research Corporation. (See Strong, William W., assignor.)
Reseik, Morris C., Cleveland Heights, Ohio. Dispensing device. 1,455,970; May 22.
Resk, Mitchell, New York, N. Y. Automatic puncture-closing device for pneumatic tires. 1,456,075; May 22.
Revor, Leo A., Lyon Mountain, N. Y. Drilling machine. 1,456,406; May 22.
Reynolds, Rohde, Houston, Tex. Indicator. 1,455,936; May 22.
Rhodes, Lee A., Humble, Tex. Bailer. 1,455,937; May 22.
Rice Gas Engine Company. (See Rice, John V., jr., assignor.)
Rice, John V., jr., assignor to Rice Gas Engine Company, Bordentown, N. J. Automatic lubricating device for remote movable and other parts. 1,456,009; May 22.
Richards, George, London, England. Milling screw threads. 1,456,280; May 22.
Richey, James I., Cincinnati, Ohio. Means for lubricating leaf springs. 1,456,463; May 22.
Richheimer, Isaac D., New York, N. Y. Coffee infuser. 1,456,010; May 22.
Richmond Lace Works. (See Radford, George, assignor.)
Rickenbacker, Adolph, and W. Kammerer, Los Angeles, Calif. Coupling. 1,455,971; May 22.
Ricker, Chester S., Indianapolis, Ind. Headlight photometer. 1,456,150; May 22.
Riffel, James K., et al. (See Ware, Thomas E., assignor.)
Ritter, Joseph, Pittsburgh, Pa., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Elastic gasket composition. 1,455,809; May 22.
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. 1,456,040; May 22.
Robertson, Walter S., assignor to The Chas. H. Elliott Company, Philadelphia, Pa. Ring. Des. 62,414; May 22.
Robbins, Charles W., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring and testing of inductances. 1,456,076; May 22.
Rode, Frederick J., R. I. Frost, and J. L. Liston, Augusta, Kans.; said Rode and said Frost assignors to said Liston. Signal lantern. 1,455,938; May 22.
Rodriguez, Ramon M. (See Zirion y Saravia, A., and Rodriguez.)
Rogers, Frank K., Los Angeles, Calif. Bumper for motor vehicles. 1,456,281; May 22.
Rohland, Curt J., Seekonk, Mass., assignor, by mesne assignments, to Signal Engineering and Manufacturing Company, New York, N. Y. Alternating-current electric bell. 1,456,282; May 22.
Rolland, Edmond, Boulogne-sur-Seine, France. Automatically-working irrigation apparatus. 1,456,464; May 22.
Roof, Robert M., assignor to Laurel Motors Corporation, Anderson, Ind. Making divided bearings. 1,455,939; May 22.
Rosenberg, Joseph, Chicago, Ill. Combination floor lamp, table lamp, and pedestal. 1,456,194; May 22.
Rose, William H., Jersey City, N. J., assignor of one-half to H. S. Neiman, New York, N. Y. Phonograph record. 1,455,886; May 22.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 62,415; May 22.
Rowland, Andrew J., Cincinnati, Ohio. Oliproof coating or impregnating agent. 1,456,494; May 22.
Rowley, Charles O., Toledo, Ohio. Burner. 1,455,810; May 22.
Ruddell, William A., Asbury Park, N. J. Metal polish. 1,456,151; May 22.

Rummel, George F., et al. (See Harter, Noah S., assignor.)
Russell Manufacturing Company. (See Fisher, William C., assignor.)
Ryder, John P., Kansas City, Mo. Gas guard and lubricator for steam engines. 1,456,011; May 22.
Rygiel, Andrew, and J. Stern, New York, N. Y. Safety device for motor vehicles. 1,456,465; May 22.
Salisbury, Orlando B., Brooklyn, N. Y. Shoe. 1,455,887; May 22.
Sanburn, Willis H., Springfield, Mass. Paper-roll track for paper machines. 1,456,077; May 22.
Sander, Alfred H., Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Coffee percolator, teapot, or similar article. Des. 62,416; May 22.
Sander, Alfred H., Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Teapot or similar article. Des. 62,417; May 22.
Sander, Alfred H., Maplewood, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Teapot or similar article. Des. 62,418; May 22.
Sander, Jacob C., Lynn, assignor to Thompson Spot Welder Company, Boston, Mass. Uniting metal plates. 1,455,811; May 22.
Sandholm, John. (See Tommasi, C., Sandholm, Danneel, and Busch.)
Sargent & Company. (See Shaw, John H., assignor.)
Sargent & Company. (See Voight, Henry G., assignor.)
Sauerbrei, William N., Richmond Hill, assignor to Wilson Bohannan, Inc., Brooklyn, N. Y. Reversible bolt lock. 1,456,466; May 22.
Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Drinking cup. Des. 62,420; May 22.
Saunders, Edward, assignor of forty-nine one-hundredths to H. Buxton, Denver, Colo. Corn-snapping machine. 1,456,012; May 22.
Savignac, Avila, Joliette, Quebec, Canada. Hay-cocking machine. 1,456,467; May 22.
Schafer, Louis, St. Louis, Mo. Automobile. 1,455,812; May 22.
Scheffer, George F., Detroit, Mich. Typewriter. 1,455,813; May 22.
Scheinman, Louis J., assignor to Governform Corporation, New York, N. Y. Garter. 1,455,888; May 22.
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Bucket, pail, or the like. 1,456,407; May 22.
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Spout for buckets. 1,456,408; May 22.
Schick, Harry C., Inc. (See Grassman, Edward C., assignor.)
Schlage Manufacturing Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., Berkeley, assignor to Schlage Manufacturing Company, San Francisco, Calif. Door lock. 1,456,041; May 22.
Schmid, William, Coldwater, Mich. Level-wind antibacklash reel. 1,456,283; May 22.
Schmitz, Fred A., assignor to The General Fireproofing Company, Youngstown, Ohio. Shipping crate. 1,456,042; May 22.
Schonfield, William, St. Mary Axe, London, England. Operating device for swinging windows. 1,456,468; May 22.
Schröder-Stranz, Hans, Rittergut Stranz, Germany. Glove. 1,455,819; May 22.
Schulz, Paul H., and C. Jessen, Milwaukee, Wis. Signal head. Des. 62,421; May 22.
Schwab, John, Winnipeg, Manitoba, Canada. Automobile tube. 1,455,889; May 22.
Schwartz, Walter M., and B. Bogaty, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Conveyer for driers. 1,456,340; May 22.
Schweinert, Maximilian C., West Hoboken, N. J. Gauge. 1,455,890; May 22.
Schweinert, Maximilian C., New York, N. Y. Attachment for valve insides. 1,455,891; May 22.
Schwidetzky, Oscar O. R., Hasbrouck Heights, assignor to Becton, Dickinson & Co., Rutherford, N. J. Syringe. 1,456,469; May 22.
Scovill Manufacturing Company. (See Goss, J. H., and Wolff, assignors.)
Scrabic, Carl, Urbana, Ohio. Sound-box structure. 1,455,972; May 22.
Searcy, Thomas J., Eldorado Springs, Mo. Churn. 1,456,152; May 22.
Seeger, Herman L., Indianapolis, Ind. Drilling tool. 1,456,153; May 22.
Shaeffer, Harry B., Altoona, Pa. Shock absorber. 1,456,470; May 22.
Shaw, Edward, Toronto, Ontario, Canada. Apparatus for heat exchange. 1,456,255; May 22.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Machine for loading cartridge belts and the like. 1,456,154; May 22.
Shivers, Paul F., Ludington, Mich., and J. F. Lindberg, Chicago, Ill., assignors of one-half to L. W. Holt, Ludington, Mich. Governor for internal-combustion engines. 1,456,284; May 22.
Shott Manufacturing Company, The. (See Gail, Charles H., assignor.)
Shull, Samuel, Philadelphia, Pa. Rail joint. 1,455,814; May 22.
Sieurin, Sven E., Hoganas, assignor to Höganäs Billesholms Aktiebolag, Helsinborg, Sweden. Manufacture of carbon electrodes. 1,456,495; May 22.
Signal Engineering and Manufacturing Company. (See Rholand, Curt J., assignor.)
Signal Engineering and Manufacturing Company. (See Wheelock, John H., assignor.)
Sikorovsky, Frank J., Chicago, Ill. Combination mandrel and gauge. 1,455,973; May 22.
Simmons, Alfred K., assignor of thirty-five one-hundredths to G. N. Boosalis and fifteen one-hundredths to L. A. Smith, Faribault, Minn. Tire. Des. 62,422; May 22.
Simmons, Alfred K., assignor of thirty-five one-hundredths to G. N. Boosalis and fifteen one-hundredths to L. A. Smith, Faribault, Minn. Tire. Des. 62,423; May 22.
Sims, Jacob, Brooklyn, N. Y. Hand bag. Des. 62,424; May 22.
Skidmore, Benjamin, jr., Chicago, Ill. Condenser and vacuum pump. 1,456,195; May 22.
Slauson, Harold W., New York, N. Y. Indicator. 1,456,155; May 22.
Smith, Clement C., Wheeling, W. Va. Car-dumping apparatus. 1,456,236; May 22.
Smith, Elmer W., assignor of one-half to E. O. Allen, Los Angeles, Calif. Mucker. 1,456,043; May 22.
Smith, H. Armour, et al. (See Adams, Frank J., assignor.)
Smith, Herman A. (See Hammond, L. E., and Smith.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Bill form. 1,456,471; May 22.
Smith, Lucieus A., et al. (See Simmons, Alfred K., assignor.)
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Thermostatic lamp dimming pull socket. 1,456,285; May 22.
Smythe, Thomas E., Grand Rapids, Mich. Pneumatic pump. 1,456,013; May 22.
Snadecki, William J., Bridgeport, Conn., assignor to R. Crane, Washington, D. C. Internal-combustion motor. 1,455,815; May 22.
Snediker, Morton O. (See Powers, F. W., and Snediker.)
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., Explosive composition. 1,456,341; May 22.
Snow, Henry W., Dayton, Ohio. Fencepost mold. 1,456,286; May 22.
Solon, Faustin J., assignor to The Owens Bottle Company, Toledo, Ohio. Container and holder therefor. 1,455,974; May 22.
Sörensen, Marius M., Vallerod, near Rungsted, Denmark. Pulling over uppers. 1,456,287; May 22.
Sörensen, Marius M., Vallerod, near Rungsted, Denmark. Lasting with wire. 1,456,288; May 22.
Spencer, Arthur R., and W. J. Plews, Cleveland, Ohio. Apparatus for puffing or disintegrating material 1,455,975; May 22.
Spryszak, Szymon. (See Novinski, Stanley, assignor.)
Squire, Cecil E. (See Jowett, T., and Squire.)
Staats, Charles H., Collingdale, Pa. Magnetic control of flush tanks. 1,456,196; May 22.
Stafford, Benjamin E. D. (See Flannery, J. R., Stafford, and Dodds.)
Stahl, Karl, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Controlling device for aerial vehicles. 1,455,820; May 22.
Stapleton, Martin W., Muscatine, Iowa. Gravity drain. 1,455,816; May 22.
Staub, Herman, assignor to Textile Machine Works, Wyomissing, Pa. Beater mechanism for braiding machine. 1,455,802; May 22.
Steele, Grove F., jr., New Britain, Conn. Post-office-box door. Des. 62,425; May 22.
Steele, Grove F., jr., New Britain, Conn. Post-office-drawer front. Des. 62,426; May 22.
Stein, Henry E., assignor to The Quad Stove Mfg. Co., Columbus, Ohio. Wall heater. 1,456,472; May 22.
Steiner, Alois J., Hoboken, N. J. Can-covering machine. 1,456,409; May 22.
Steinberger, Louis, Brooklyn, N. Y. Telephone or other sound receiver. 1,455,817; May 22.
Steinberger, Louis, Brooklyn, N. Y. Telephone or other sound receiver. 1,455,818; May 22.
Stephenson, Albert E., Dallas, Tex. Tube and tire repair material. 1,456,078; May 22.
Stephens, Edward E. (See Falconer, Leroy D., assignor.)
Stern, Julius. (See Rygiel, A., and Stern.)
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Means for operating presses. 1,456,014; May 22.
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Press. 1,456,257; May 22.
Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Tensioning means for web rolls and other materials. 1,455,976; May 22.
Stewart, Cornelius C., Philadelphia, Pa. Evacuator. 1,456,342; May 22.
Stewart, James M., et al. (See Ware, Thomas E., assignor.)

St. Louis Frog & Switch Co. (See Einstein, Robert E., assignor.)
Stockton, Frank W., Pittsburgh, assignor to Aluminum Seal Company, New Kensington, Pa. Unvulcanized rubber composition. 1,455,893; May 22.
Stockton, Frank W., Pittsburgh, assignor to Aluminum Seal Company, New Kensington, Pa. Hermetic seal. 1,455,894; May 22.
Stone, Marion W., Kansas City, Mo. Combined stop and safety valve. 1,455,940; May 22.
Stoner, Carlton E., Long Beach, Calif. Lateral dirigible light for vehicles. 1,456,258; May 22.
Storey, Leonidas P., assignor to Waterous Fire Engine Co., St. Paul, Minn. Clutch shifting mechanism. 1,456,280; May 22.
Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Positioned electrode. 1,456,044; May 22.
Stroud, William. (See Barr, A., and Stroud.)
Struelens, Joseph. (See Moerloose, Germaine, assignor.)
Studebaker Corporation, The. (See Baus, Richard E., assignor.)
Studebaker, George M. (See Charlton, Thomas, assignor.)
Stuebner, Henry, Philadelphia, Pa. Method and mechanism for continuously producing and setting rivets. 1,456,079; May 22.
Stuetzel, Adolph, and H. W. Bohn, Boston, Mass.; said Stuetzel assignor to said Bohn. Trinket or similar article. Des. 62,427; May 22.
Stuht, A. E., et al. (See Forsman, Andrew, assignor.)
Summerfield, Harry, St. Paul, Minn. Adjustable anti-skidding device. 1,456,473; May 22.
Super Reflex Company. (See MacDowell, G. J., and Jones, assignor.)
Susquehannah Silk Mills. (See Bunting, James H., assignor.)
Sussman, Max, Detroit, Mich. Folding cook stove. 1,456,474; May 22.
Suter, Eugène F., London, England. Electric heating apparatus for waving or curling the hair. 1,456,343; May 22.
Swanson, Charles A., assignor of one-half to G. W. Swanson, Fridley, Minn. Unloading truck. 1,455,821; May 22.
Swanson, George W. (See Swanson, Charles A., assignor.)
Swingspout Measure Co. (See Wiswell, O. N., and Allen, assignors.)
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
Taggart, John A., Wilmette, Ill. Concrete mold. 1,456,345; May 22.
Tandy, Walter R., Abilene, Tex. Attachment for combined harvesters and thrashers. 1,456,156; May 22.
Tapley, J. F., Co. (See Palmer, Elbridge W., assignor.)
Taylor, John R., Mansfield, Ohio. Gas heater. Des. 62,428; May 22.
Tedman, Hudson A., Galesburg, assignor to Winslow Boiler & Engineering Company, Chicago, Ill. Fuel-oil-control apparatus. 1,456,197; May 22.
Tedman, Hudson A., Galesburg, assignor to Winslow Boiler & Engineering Company, Chicago, Ill. Oil-burning system. 1,456,198; May 22.
Tedman, Hudson A., Galesburg, assignor to Winslow Boiler & Engineering Company, Chicago, Ill. Safety device for oil-burning systems. 1,456,199; May 22.
Tell, Karl G., Highland Park, Mich. Adjustable wrench. 1,456,290; May 22.
Textile Machine Works. (See Staub, Herman, assignor.)
Thomas Auto Traffic Signal Company. (See Thomas, William, jr., assignor.)
Thomas, William, jr., assignor to Thomas Auto Traffic Signal Company, Los Angeles, Calif. Traffic signal. Des. 62,429; May 22.
Thompson, Robert D. (See Penrod, J., and Thompson.)
Thompson Spot Welder Company. (See Sander, Jacob C., assignor.)
Thomson, Enos E., Cleveland, Ohio. Jack. Re15,609; May 22.
Thurston, Ernest B., assignor to The Haughton Elevator Machine Co., Toledo, Ohio. Electromechanical brake. 1,455,895; May 22.
Tommasi, Carlo, J. Sandholm, H. Danneel, and A. Busch, assignors to Elektrizitätswerk Lonza, Basel, Switzerland. Burner for solid fuel. 1,456,475; May 22.
Traction Machine Company, The. (See Fetzer, Louis W., assignor.)
Tracy, Ernest B., Seattle, Wash. Picture-molding hook. 1,456,476; May 22.
Trebes, Edward H., Tampa, Fla. Pavement and laying the same. 1,456,080; May 22.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Treubig, Frederick G., Ozone Park, N. Y. Lid lifter. 1,456,157; May 22.
Trojan Power Company. (See Snelling, Walter O., assignor.)
Trombley, Russell A., Akron, Ohio. Collapsible kite. 1,456,260; May 22.
Tunnell, Jesse F., Dallas, Tex. Well drill. 1,456,158; May 22.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. 1,456,081; May 22.
Turner, Laurence B., Cambridge, England. Wireless-telegraph receiver. 1,455,896; May 22.
Twomley, Herbert E., assignor to G. D. Parker, Riverside, Calif. Reduction gear. 1,456,200; May 22.
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
Underwood Typewriter Company. (See Dobson, William A., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Uhl, Clyde, Bartlesville, Okla. Hoisting machine. 1,455,897; May 22.
Uhlig, Charles M. (See Craddick, W. F., and Uhlig.)
United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Machine Gun Company. (See Berthier, André V. P. M., assignor.)
Usher, Samuel A., Chunky, Miss. Furnace. 1,456,159; May 22.
Uttech, Henry C., Lebanon, Wis. Pulley attachment for tractors. 1,456,160; May 22.
V. V. Fittings Company. (See Pringle, William T., assignor.)
Vanderlip, Louis C., Elkhart, Ind. Vehicle steering mechanism. 1,455,941; May 22.
Vangen, Anton, Vestmarken, Norway. Self-indicating target. 1,456,015; May 22.
Van Ness, Henry E., Elmira, N. Y. Yarn cleaner. 1,456,261; May 22.
Van Ness, Henry E., Elmira, N. Y. Yarn cleaner. 1,456,262; May 22.
Van Ness, Henry E., Elmira, N. Y. Tension device. 1,456,263; May 22.
Van Ness, Henry E., Elmira, N. Y. Dyeing textiles. 1,456,344; May 22.
Venable, William M., Pittsburgh, Pa. Phonograph sound box. 1,455,942; May 22.
Vincent, Jesse G., Detroit, Mich., assignor, by mesne assignments, to Kellogg Manufacturing Company, Rochester, N. Y. Auxiliary pump for motor vehicles. 1,456,201; May 22.
Vit-O-Net Mfg. Co. (See Craddick, W. F., and Uhlig, assignors.)
Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock for filler caps. 1,456,161; May 22.
Volnov, Rudy, Cleveland, Ohio. Wrench. 1,455,822; May 22.
Walker, Charles W., Apollo, Pa. Game. 1,456,162; May 22.
Walker, George R., Clarendon Hills, assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill. Driving wheel for motor vehicles and the like. 1,455,943; May 22.
Walker Vehicle Company. (See Walker, George R., assignor.)
Wall, William A., Carrollton, and A. N. Mitchell, Rockbridge, Ill. Curtain and quilting frame. 1,455,944; May 22.
Walton, Hugh B., Deer Park, Wash. Tire. 1,456,163; May 22.
Walton, John J., Dante, Va. Tub. 1,455,945; May 22.
Ward, Charles E., Charleston, W. Va. Liquid heater and vaporizer. 1,456,016; May 22.
Ware, Elva; et al. (See Ware, Thomas E., assignor.)
Ware, Thomas E., assignor of one-sixth to J. K. Riffel, one-sixth to F. H. Dodge, one-sixth to J. M. Stewart, and one-half to E. Ware, Little Rock, Ark. Tire. 1,456,202; May 22.
Warren Clock Company. (See Warren, Henry E., assignor.)
Warren, Harry R., Wabuska, Nev. Spring for automobiles. 1,456,410; May 22.
Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Motor drive. 1,456,082; May 22.
Warren, John W., Elizabethton, Tenn. Multiple-stave mold. 1,456,411; May 22.
Washburn, Elijah E., Casper, Wyo. Saw-setting device. No. 1,456,164; May 22.
Washburne, Alva C., et al. (See Hammond, Grant, assignor.)
Waterbury Buckle Co. (See Moore, Roswell A., assignor.)
Waterous Fire Engine Co. (See Storey, Leonidas P., assignor.)
Watt, William H., jr., West Newton, Pa. Chain holder. 1,456,412; May 22.
Weaver, A. T., et al. (See Harter, Noah S., assignor.)
Weaver, Alice H. (See Weaver, Charles W., and A. H.)
Weaver, Charles W. and A. H., Denver, Colo.; said Charles W. Weaver assignor to said A. H. Weaver. Attachment for slop jars and the like. 1,456,017; May 22.
Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Under-frame for cars. 1,456,203; May 22.

Webster, James F., Colfax, Ind. Flytrap. 1,456,413; May 22.
Webster, Thomas F., Philadelphia, Pa. Pulley-block carrier. 1,456,346; May 22.
Welerman, Herbert P., Philadelphia, Pa. Caster. 1,456,414; May 22.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Insulating material and making the same. 1,456,083; May 22.
Wentworth, Hartley A., Deer Island, New Brunswick, Canada. Extracting oil. 1,456,019; May 22.
Wentz, Jere L., Passaic, N. J. Conveyer. 1,455,977; May 22.
Wentz, Jere L., Passaic, N. J. Stopper. 1,455,978; May 22.
West, Oscar M., St. Paul, Minn. Direction signal for automobiles. 1,456,347; May 22.
Wester, Theodore C., Wilmington, Del. Apparatus for forming articles of cork. 1,455,946; May 22.
Western Electric Company. (See Johnson, Edgar D., assignor.)
Western Electric Company. (See Robbins, Charles W., assignor.)
Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
Westinghouse Air Brake Company. (See Farmer, Clyde C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
Westphal, Hans, Berlin, Germany, assignor to General Electric Company. Support for overhead wires of electric railways. 1,455,084; May 22.
Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
Wheelock, John H., Fitzwilliam, N. H., assignor to Signal Engineering and Manufacturing Company, New York, N. Y. Sign flasher. Re15,613; May 22.
Wheelwright, George W., Bloomfield, N. J., assignor to American Can Company, New York, N. Y. Moisture-proof fiber container. 1,455,979; May 22.
Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Delivering material from rolls. 1,456,291; May 22.
Whitaker-Glessner Company. (See Ritter, Joseph, assignor.)
White, Albert E., Eau Claire, Wis. Bushing for automobile grinders. 1,456,477; May 22.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-belt calk. 1,456,348; May 22.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Direction-changing transmission mechanism. 1,456,349; May 22.
White, Samuel, Brooklyn, N. Y. Collapsible structure. 1,456,478; May 22.
White, William M., Milwaukee, Wis. Oiling device. 1,455,947; May 22.
Whiting & Davis Company. (See Rowan, Harry B., assignor.)
Whiting, Saville, Melbourne, Victoria, Australia. Resilient suspension device for the front wheels of motor cycles. 1,455,948; May 22.
Whitmore, Alfred E., Norfolk, Va. Advertising device. 1,455,949; May 22.
Whitney, Stephen H., assignor of one-fourth to A. A. Eddie, San Francisco, Calif. Ore separator. 1,456,165; May 22.
Widmer, Frederick A., Corsicana, Tex. Collapsible rotary well drill. 1,456,350; May 22.
Wiegand, Edwin L., Pittsburgh, Pa. Internal-combustion engine. 1,456,018; May 22.
Wightman, Sherburne H., Birmingham, Mich., assignor, by mesne assignments, to International Concrete Corporation, Wilmington, Del. Concrete mixer. 1,455,898; May 22.
Wilcox, Charles E., Anaheim, Calif. Oil-well pump. 1,456,166; May 22.
Wilkin, Arthur J., Los Angeles, Calif. Drip cup. 1,456,045; May 22.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,456,085; May 22.
Williams, Harry W., assignor to C. F. Gardner, Dayton, Ohio. Dispensing apparatus for semisolid or plastic materials. 1,455,980; May 22.
Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Semiautomatic telephone system. 1,455,951; May 22.
Willman, Irvin F., Muleshoe, Tex. Windmill. 1,455,950; May 22.
Willsie, Henry E., Darien, Conn. Ice machine. 1,455,823; May 22.
Wilson, Joseph R., Salt Lake City, Utah. Animal trap. 1,456,415; May 22.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-laying machine. 1,455,952; May 22.
Winslow Boiler & Engineering Company. (See Tedman, Hudson A., assignor.)
Wiswell, Ozro N., and S. E. Allen, assignors to Swing-spout Measure Co., Los Angeles, Calif. Emergency unit. 1,456,167; May 22.
Witmer, Charles C., and B. Havens, assignors to "Airships Incorporated," Hammondsport, N. Y. Pneumatic life raft. 1,456,168; May 22.
Witten, William S., Chicago, Ill. Latch. 1,456,169; May 22.
Wolfe, Jacob J., assignor to The Peabody School Furniture Company, North Manchester, Ind. Combined chair and desk. 1,455,824; May 22.
Wolff, Edward L. (See Goss, J. H., and Wolff.)
Wood, Robert W., Baltimore, Md., assignor to Pratt & Whitney Company, New York, N. Y. Optical method of obtaining linear dimensions. 1,455,825; May 22.
Woodberry, Charles C., Cincinnati, Ohio. Radiator curtain. 1,456,170; May 22.
Woodberry, John H., U. S. Army. Base fuse. 1,456,204; May 22.
Woodward, Millard F., Alexandria, La. Internal-combustion engine. 1,456,171; May 22.
Woolums, William H., South Bend, Ind. Automobile signaling device. Des. 62,430; May 22.
Woolums, William H., South Bend, Ind. Automobile signaling device. Des. 62,431; May 22.
Workman, John D., Elliottsville, Pa. Automatic vehicle brake. 1,456,416; May 22.
Worrell, Benjamin F., Chicago, Ill. Automobile tire. Des. 62,432; May 22.
Worton, Samuel G., Duquesne, Pa. Furnace-doorway construction. 1,456,205; May 22.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Wright, Parvin, Chicago, Ill. Machine for capping bundles of tie wires. 1,455,953; May 22.
Wyckoff, Richard D., New York, N. Y. Exhibiting device. 1,456,086; May 22.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,455,954; May 22.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,456,172; May 22.
Yorgensen, Paul L. L., assignor of one-half to A. J. Gengras, Hartford, Conn. Swimming appliance. 1,455,826; May 22.
Zenite Metal Company. (See Brown, Fred E., assignor.)
Ziegler, William F., Salina, Kans. Corn harvester. 1,456,206; May 22.
Zirion y Saravia, Antonio, Mexico, Mexico, and R. M. Rodrigues, assignors to Dermophile Producta Company, Inc., New York, N. Y. Box for talcum powders and the like. Des. 62,419; May 22.
Zupnik, Joel V., Cleveland, Ohio. Lubricating system for roller bearings. 1,455,981; May 22.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acid, Manufacture of sulphuric. W. F. Lamoreaux. 1,456,065; May 22.
Acid, Process and apparatus for making sulfuric. W. F. Lamoreaux. 1,456,064; May 22.
Adjustable wrench. K. G. Tell. 1,456,290; May 22.
Advertising device. A. E. Whitmore. 1,455,949; May 22.
Advertising device and temporary savings bank, Combined. R. D. Knight. 1,456,133; May 22.
Aerial vehicles, Controlling device for. K. Stahl. 1,455,820; May 22.
Aeroplane propeller. A. Nuanes. 1,456,008; May 22.
Agitating device. T. J. Putnam. 1,456,147; May 22.
Aim-practicing apparatus. W. G. Paterson. 1,456,191; May 22.
Air by boiler feed water or other liquid, Method of and apparatus preventing the absorption of. D. B. Morison. 1,455,927; May 22.
Aircraft. F. J. Morse. 1,455,801; May 22.
Air compressor. D. C. Baker. 1,456,089; May 22.
Air conditioning or humidifying and heating system. L. L. Lewis. 1,455,846; May 22.
Air filter. A. Budil. 1,456,360; May 22.
Airplanes, Adjustable pitch propeller for. S. W. Carter. 1,455,990; May 22.
Alarm: *See*—
Burglar alarm.
Alloy steel, Heat-treated stable-surface. P. A. E. Armstrong. 1,456,088; May 22.
Aluminum, Compound for cleaning. C. M. Hemen. 1,456,486; May 22.
Animal trap. K. Harried. 1,456,377; May 22.
Animal trap. J. R. Wilson. 1,456,415; May 22.
Antiskidding device, Adjustable. H. Summerfield. 1,456,473; May 22.
Antislip device. W. J. Moffatt. 1,455,924; May 22.
Article-holding clip. P. W. McGuire. 1,456,321; May 22.
Asparagus cutter. F. Mackensen. 1,455,797; May 22.
Atomizer, Embalming fluid. J. A. Rayder. 1,455,969; May 22.
Automobile. L. Schafer. 1,455,812; May 22.
Automobile and track turner. A. G. Molnlar. 1,456,457; May 22.
Automobile signal. P. McLaren. Des. 62,405; May 22
Automobile signaling device. W. H. Woolums. Des. 62,430–1; May 22.
Automobile tube. J. Schwab. 1,455,889; May 22.
Automobile wheel lock. D. A. Hedgiin. 1,456,021; May 22.
Automobiles in freight cars, System for loading. R. E. Baus. 1,456,173; May 22.
Automobiles, Direction signal for. O. M. West. 1,456,347; May 22.
Automobiles, Spring for. H. R. Warren. 1,456,410; May 22.
Automobiles, Suspension spring for. G. H. Dein. 1,456,483; May 22.
Bag holder. W. J. Borlase. 1,456,175; May 22.
Bailer. L. A. Rhodes. 1,455,937; May 22.
Baking device. M. Ivancic. 1,456,238; May 22.
Band or bale tie together, Device for drawing the ends of a. R. L. Horsley. 1,456,311; May 22.
Bank, Savings. C. Fisher. 1,456,227; May 22.
Basket. H. R. Garritson. 1,456,376; May 22.
Bath sponge. G. Fierheller. 1,455,870; May 22.
Battery connection, Storage. B. B. Blackburn. 1,456,420; May 22.
Bearings, Lubricating system for roller. J. V. Zupnik. 1,455,981; May 22.
Bearings, Making divided. R. M. Roof. 1,455,939; May 22.
Bed, Automobile. C. Krey. 1,456,384; May 22.
Bed, Couch. B. C. Poston. 1,456,146; May 22.
Bedspring. C. H. Gall. 1,455,873; May 22.
Bedspring, Box. C. H. Gall. 1,455,872; May 22.
Beet loader. J. T. Hough. 1,455,914; May 22.
Bell, Alternating-current electric. C. J. Rohland. 1,456,282; May 22.
Belt calk, Track. R. H. White. 1,456,348; May 22.
Belt, Conveyer. W. C. Fisher. 1,456,000; May 22.
Belt, Track. C. F. Heinkel. 1,456,378; May 22.
Bicycles, Two-cycle engine for. C. P. Brockway. 1,456,220; May 22.
Bill form. J. A. B. Smith. 1,456,471; May 22.
Binders, Attachment to. T. Durrant. 1,456,123; May 22. May 22.
Blanket and the like, Electrical. W. F. Craddick and C. M. Uhlig. 1,456,223; May 22.
Bleaching earth. C. Cramer. 1,455,995; May 22.
Boat. A. C. Dale. 1,455,833; May 22.
Bobsled. O. J. Neinow. 1,456,142; May 22.
Boiler casings removably mounted upon firepots, Gas-tight joint for. J. Pierce, jr. 1,456,254; May 22.
Boiler plug. F. E. Key. 1,456,314–5; May 22.
Boiler-tube ferrule. J. Pecinka. 1,456,145; May 22.
Boilers, Means for testing stay bolts in. J. R. Flannery, B. E. D. Stafford, and E. I. Dodds. 1,455,836; May 22.
Bolt lock, Reversible. W. N. Sauerbrei. 1,456,466; May 22.
Boring-bar tool. W. Aab. 1,456,351; May 22.
Bottle. F. Javal. Des. 62,399; May 22.
Bottle-capping machine. E. Nordstrom. Re15,612; May 22.
Bottle necks, Tool for removing ties from. A. C. Meeker. 1,456,185; May 22.
Bottle-washing machine. G. A. Berg. 1,455,774; May 22.
Box: *See*—
Cartridge box.
Delivery box.
Fuse box.
Paper box.
Phonograph sound box.
Box blanks, Machine for forming. C. L. Moyer. 1,456,248–9; May 22.
Box form or mandrel. M. B. Diskin. 1,456,096; May 22.
Brace: *See*—
Lid brace.
Bracelet, bolt, or the like, Expanding. G. W. Harrison. 1,455,883; May 22.
Bracket: *See*—
Lamp bracket.
Braiding machines, Beater mechanism for. H. Staub. 1,455,892; May 22.
Brake: *See*—
Electromechanical brake.
Vehicle brake.
Wheel brake.
Brick. H. P. Barr. 1,456,048; May 22.
Brooder. D. E. Noland. 1,456,398; May 22.
Brush-making machine. U. S. Perkins. 1,455,932; May 22.
Bucket, pail, or the like. A. G. Scherer. 1,456,407; May 22.
Buckets, Spout for. A. G. Scherer. 1,456,408; May 22.
Buckle, Belt. J. O. Chabot. 1,455,831; May 22.
Buckle, Belt. E. L. Johnson and O. Lundsten. 1,456,130; May 22.
Buckle, Belt. F. F. Knothe. 1,455,794; May 22.
Building block and construction. J. Eisenmann. 1,456,373; May 22.
Burglar alarm. C. B. Atwood. 1,456,209; May 22.
Burner: *See*—
Oil burner.
Burner. E. E. Cornwell and J. H. McCready. 1,455,955; May 22.
Burner. C. O. Rowley. 1,455,810; May 22.
Buttons, Assembling. A. Latham. 1,456,024; May 22.
Cable, Thermal control. F. W. Parsons. 1,455,805; May 22.
Calculating machine. T. Jowett and C. E. Squire. 1,456,061; May 22.
Calling-device attachment. F. W. Fabrenfeld. 1,455,998; May 22.
Camera shutter-operating mechanism. G. J. MacDowell and M. H. Jones. 1,456,137; May 22.
Cameras, Optical system for phonographic. S. M. de Procoudine-Gorsky. 1,456,427; May 22.
Cameras, Panoramic attachment for. W. Edwards. 1,456,372; May 22.
Can: *See*—
Milk can.
Can-covering machine. A. J. Steiner. 1,456,409; May 22.
Can opener. G. E. Marshall. 1,456,246; May 22.
Can-testing apparatus. G. W. Chambers. 1,456,094; May 22.
Candlesticks and candleholders, Attachment for. E. J. Lake. 1,456,134; May 22.
Cane, Combination walking. L. Fritachka. 1,456,304; May 22.
Cane mills, Juice-saving attachment for. J. Fisher. 1,456,430; May 22.
Cap, Dust. E. B. Mang. 1,456,245; May 22.
Cap wrench. G. B. Friday. 1,456,126; May 22.
Caps, hats, or other headgear, Head-protection attachment for. G. B. Knight. 1,456,183; May 22.

Carbon electrodes, Manufacture of. S. E. Sieurin. 1,456,495; May 22.
Carbonaceous or other materials, Retort for the treatment of. F. D. Marshall. 1,456,392; May 22.
Carburetor. C. P. Brockway. 1,456,219; May 22.
Carburetor attachment. C. D. Bowles. 1,456,213; May 22.
Carburetor, Auxiliary. H. M. Lee. 1,456,025; May 22.
Car-control equipment, Safety. C. C. Farmer. 1,456,268; May 22.
Car-dumping apparatus. C. C. Smith. 1,456,256; May 22.
Car, Dumping mine. O. W. and E. H. Crooks. 1,456,054; May 22.
Carrier: *See*—
Pulley-block carrier.
Car structure, Metal. I. S. Downing. 1,455,867; May 22.
Cars, Controlling mechanism for dump. J. D. Benbow. 1,456,049; May 22.
Cars, Trap for refrigerator. P. S. Dougherty. 1,456,428; May 22.
Cars, Underframe for. R. R. Weaver. 1,456,203; May 22.
Cartridge belts, Machine for loading. J. H. Shaw. 1,456,154; May 22.
Cartridge box. F. B. Nofsinger. 1,455,803; May 22.
Case: *See*—
Cigarette case. Toilet case.
Packing case. Vanity case.
Cases, Refill for vanity. W. Lindenmayer. 1,456,453; May 22.
Caster. H. P. Weierman. 1,456,414; May 22.
Casting apparatus. J. H. Goss and E. L. Wolff. 1,456,231; May 22.
Chain connector. H. O. Clark. 1,456,361; May 22.
Chain holder. W. H. Watt, jr. 1,456,412; May 22.
Chair. M. W. Hard. 1,456,235; May 22.
Chair and desk, Combined. J. J. Wolfe. 1,455,824; May 22.
Check protector. H. L. Colt. 1,455,904; May 22.
Chemical apparatus. B. B. Fogler. 1,456,102; May 22.
Chimney draft device. L. Dufek. 1,456,099; May 22.
Chiropractic table. H. H. Miller. 1,455,922; May 22.
Churn. T. J. Searcy. 1,456,152; May 22.
Cigarette case. L. Dahlgren. 1,456,055; May 22.
Cigarette container. G. L. Johnstone. 1,456,000; May 22.
Cigars, Circular box for. A. H. Balliet. 1,455,983; May 22.
Circuit closer, Automatic. J. Mackintosh. 1,456,027; May 22.
Circuit controller, Time-element. J. Eaton. 1,456,100; May 22.
Clamp: *See*—
Hood clamp.
Clay product and preparing same. E. G. Acheson. 1,456,111; May 22.
Cleaner: *See*—
Vacuum cleaner. Yarn cleaner.
Cleaning device. E. F. Merritt. 1,456,394; May 22.
Clip: *See*—
Rail clip.
Clock, Range. E. Meitner. 1,455,799; May 22.
Closet seats, Bidet for. R. C. N. Cook. 1,455,905; May 22.
Clutch. M. W. Chipman. 1,455,901; May 22.
Clutch. W. Maier. 1,456,324; May 22.
Clutch. A. Moorhouse. 1,455,848; May 22.
Clutch mechanism, Friction. M. McCann. 1,456,320; May 22.
Clutch-shifting mechanism. L. P. Story. 1,456,289; May 22.
Coal-cutting and similar machine. M. S. Moore. 1,455,925; May 22.
Coal jigs, Skimming device for. E. T. Anderson and W. Morgan. 1,455,854; May 22.
Coaster brake, Means for holding the stationary element of a. C. Goodchild. 1,456,103; May 22.
Coating or impregnating agent, Oilproof. A. J. Rowland. 1,456,494; May 22.
Coffee infuser. I. D. Richheimer. 1,456,010; May 22.
Coil and spool construction. S. E. Johannesen. 1,456,108; May 22.
Concrete mixer. S. H. Wightman. 1,455,898; May 22.
Concrete mold. J. A. Taggart. 1,456,345; May 22.
Container and holder therefor. F. J. Solon. 1,455,974; May 22.
Container, Moistureproof fiber. G. W. Wheelwright. 1,455,979; May 22.
Conveyer. J. L. Wentz. 1,455,977; May 22.
Conveyer apparatus. H. M. Brightman. 1,456,218; May 22.
Conveyer systems, Automatic package separator for. T. M. Mills and J. T. Clark. 1,456,029; May 22.
Cord-gripping appliance. A. C. Hough. 1,456,237; May 22.
Cordage wrapper and package. H. L. Greve. 1,455,838; May 22.
Core and chuck. P. and B. De Mattia. 1,456,426; May 22.
Core for making pipes and the like. F. S. Hale. 1,456,058; May 22.
Cork, Apparatus for forming articles of. T. C. Wester. 1,455,946; May 22.
Corn drier, Seed. J. S. Bain. 1,456,295; May 22.
Corn-snapping machine. E. Saunders. 1,456,012; May 22.
Corrugated, expansible collapsible elements, Producing. H. C. Mallory. 1,456,060; May 22.
Coupling. N. W. Cummins. 1,456,179; May 22.
Coupling. A. Rickenbacker and W. Kammerer. 1,455,971; May 22.
Coupling and making the same. W. P. Crockett. 1,456,178; May 22.
Cover, Roll. C. Nordell. 1,456,458; May 22.
Cooker and heater, Electric. G. O. Ditton. 1,455,909; May 22.
Cooking utensil. F. E. Corwin. 1,455,780; May 22.
Crank shafts, Machine for turning crank pins of. K. F. Marx. 1,456,028; May 22.
Cranking device, Safety. O. Crockett. 1,456,481; May 22.
Crate, Shipping. F. A. Schmitz. 1,456,042; May 22.
Crayons or the like, Holder for. E. Krouti. 1,456,241; May 22.
Cultivators, Cotton-chopper attachment for. S. O. Brown. 1,456,359; May 22.
Cultivator, Tractor. J. T. Barkelew. 1,455,984; May 22.
Cup: *See*—
Drip cup. Lubricating cup.
Cup and saucer. S. D. Nichols. Des. 62,407; May 22.
Curry comb, Cob. W. Murphy. 1,456,331; May 22.
Curtain and quilting frame. W. A. Wall and A. N. Mitchell. 1,455,944; May 22.
Curtain fixture. J. H. Boye. 1,456,214; May 22.
Cushion seat, Pneumatic. J. M. Adamski. 1,456,207; May 22.
Cutter: *See*—
Asparagus cutter. Feed cutter.
Delivery box. J. Grigas. 1,455,877; May 22.
Demand meter. C. I. Hall. 1,456,104; May 22.
Dental floss holder. A. L. Patterson. 1,456,279; May 22.
Diaphragm switch. C. C. Abbott. 1,456,087; May 22.
Dictaphones and the like, Safety ejector for. F. W. Barrows. 1,456,354; May 22.
Dispensing apparatus. J. B. Davis. 1,456,366; May 22.
Dispensing device. M. C. Resek. 1,455,970; May 22.
Display device. E. E. Johnson and J. Kershaw. 1,456,273; May 22.
Display rack. O. J. Hotaling. 1,456,446; May 22.
Diesel engine. H. T. Herr. 1,455,787; May 22.
Doll. R. Kelly and G. E. Long. Des. 62,400; May 22.
Doll. M. L. Phinney. Des. 62,410; May 22.
Doll, Jointed. C. Cabana. 1,456,422; May 22.
Door. H. H. Pals. 1,455,967; May 22.
Door and step structure, Combined. M. Khan. 1,456,132; May 22.
Door lock. W. R. Schlage. 1,456,041; May 22.
Door stop and holder, Combined. W. C. Beacham. 1,456,114; May 22.
Dowel pin. E. T. Kindt. 1,455,793; May 22.
Drain, Gravity. M. W. Stapleton. 1,455,816; May 22.
Drier: *See*—
Corn drier.
Driers, Conveyer for. W. M. Schwartz and H. Bogaty. 1,456,340; May 22.
Drill: *See*—
Well drill.
Drilling machine. L. A. Revor. 1,456,406; May 22.
Drilling tool. H. L. Seeger. 1,456,153; May 22.
Drinking cup. A. F. Saunders. Des. 62,420; May 22.
Drip cup. A. J. Wilkin. 1,456,045; May 22.
Drum and trap combination. U. G. Leedy. 1,456,242; May 22.
Dump, Oscillatory. D. F. Lepley. 1,456,388; May 22.
Dyeing textiles. H. E. Van Ness. 1,456,344; May 22.
Egg beater. C. E. Jensen. 1,456,448; May 22.
Electric devices, Seal for. G. M. J. Mackay. 1,456,110; May 22.
Electric heater. C. H. W. Morrison. 1,456,141; May 22.
Electric-iron cords, Slack-take-up device for. A. Carlson. 1,456,093; May 22.
Electric machine, Dynamo. J. L. Burnham. 1,456,092; May 22.
Electric regulator. W. A. Turbayne. 1,456,081; May 22.
Electric resistance furnace. C. L. Ipsen. 1,456,107; May 22.
Electric switch. R. A. Belmont and J. B. Downing. 1,455,985; May 22.
Electric switch. A. E. Maage. 1,455,960; May 22.
Electric switch. W. T. Pringle. 1,456,336; May 22.
Electric starting and generating apparatus. W. B. Moses. 1,456,033; May 33.
Electrical apparatus for illuminating and decorating Christmas trees and similar uses. J. H. Betts. 1,456,091; May 22.
Electrical condenser. W. Dubilier. 1,455,781; May 22.
Electrode, Positioned. W. W. Strong. 1,456,044; May 22.
Electromechanical brake. E. B. Thurston. 1,455,895; May 22.
Emblem holder. R. W. Hamilton. 1,455,839; May 22.
Emergency unit. O. N. Wiswell and S. E. Allen. 1,456,167; May 22.
Engine: *See*—
Diesel engine. Rotary engine.
Internal-combustion engine.
Engine, Combined internal-combustion and turbine. D. S. Atkinson and J. McKenzie. 1,456,479; May 22.
Engine-hood protector. B. Hess. 1,456,236; May 22.
Engine-starting mechanism. C. P. Brockway. 1,456,493; May 22.
Engines, Cooling system for internal-combustion. S. A. Moss. 1,456,072; May 22.

Engines, Gas guard and lubricator for steam. J. P. Ryder. 1,456,011; May 22.
Engines, Governor for explosive. N. Pederson. 1,455,807; May 22.
Engines, Governor for internal-combustion. P. F. Shivers and J. F. Lindberg. 1,456,284; May 22.
Engines, Method and means for controlling internal-combustion. C. G. Pullin. 1,456,337; May 22.
Envelope. P. W. Markowitz. 1,456,325; May 22.
Envelope fastener. E. F. Nissen. 1,456,036; May 22.
Evacuator. C. C. Stewart. 1,456,342; May 22.
Exhibiting device. R. D. Wyckoff. 1,456,086; May 22.
Exerciser. W. E. Lauer. 1,456,317; May 22.
Explosive composition. W. O. Snelling. 1,456,341; May 22.
Fan, Ceiling. M. M. Glasser. 1,456,453; May 22.
Fastener, Detachable. C. F. Bilbrough. 1,456,118; May 22.
Fasteners, Machine for setting. S. L. Gookin. 1,456,002; May 22.
Feed cutter. A. G. Newman. 1,456,034; May 22.
Feeding and sorting device. H. M. Brightman. 1,456,216; May 22.
Fencepost mold. H. W. Snow. 1,456,286; May 22.
Fertilizing materials, Drying and preparing. F. J. Nash. 1,456,332; May 22.
Filter, Liquid. K. J. E. Hesselman. 1,456,438; May 22.
Firearm. A. V. P. M. Berthier. 1,456,482; May 22.
Firearm. G. Hammond. 1,455,880–1; May 22.
Fire escape. C. F. Morrill. 1,455,928; May 22.
Fire-rescue device. H. E. Hodgson. 1,456,106; May 22.
Float, Folding. A. Nielsen. 1,456,397; May 22.
Flux or solvent for use in technical process. A. A. Kelly. 1,455,791; May 22.
Flytrap. H. A. Faes. 1,455,782; May 22.
Flytrap. J. Potts. 1,455,808; May 22.
Flytrap. J. F. Webster. 1,456,413; May 22.
Food products, Apparatus for producing baked and other. N. Mininberg. 1,455,923; May 22.
Frame: *See*—
Curtain and quilting frame. Magnet frame.
Fruit-washing machine. L. N. Miller. 1,456,456; May 22.
Fuel, Burner for solid. C. Tommasi, J. Sandholm, H. Danneel, and A. Busch. 1,456,475; May 22.
Fuel economizer. W. G. Griffin. 1,456,057; May 22.
Fuel manifold. R. W. A. Brewer. 1,456,176; May 22.
Fuel mixer. K. F. Lidholm and A. E. Hedwall. 1,456,135; May 22.
Furnace: *See*—
Electric resistance furnace. Steam-boiler furnace.
Furnace. S. A. Usher. 1,456,159; May 22.
Furnace and crucible, Combined. W. T. Carnes. 1,456,298; May 22.
Furnace-arch construction. L. H. Hosbein. 1,456,023; May 22.
Furnace-doorway construction. S. G. Worton. 1,456,205; May 22.
Furnace sectional dead grate with brick inserts. F. B. Bigelow. 1,455,858; May 22.
Furnaces, Auxiliary feed block for. V. Mackay. 1,456,138; May 22.
Furnaces, Humidifier for. H. M. Nobis. 1,455,930; May 22.
Furniture, Insectproof cup for. W. Moll and A. W. Angel. 1,456,395; May 22.
Fuse, Base. J. H. Woodberry. 1,456,204; May 22.
Fuse box. A. T. Kvarnstrom. 1,456,385; May 22.
Fuse-plug puller. H. D. Grinnell. 1,455,878; May 22.
Game. C. W. Walker. 1,456,162; May 22.
Games, Appliance for playing fishing. W. C. Haigh. 1,456,308; May 22.
Garage drain. J. Heinkel. 1,456,105; May 22.
Gauge: *See*—
Liquid-level gauge.
Garments, Machine for marking. C. E. Jenner. 1,456,447; May 22.
Garter. L. J. Scheinman. 1,455,888; May 22.
Garter trimming. R. A. Moore. 1,455,926; May 22.
Gas and air mixer. C. Munzner. 1,456,250; May 22.
Gas heater. J. R. Taylor. Des. 62,428; May 22.
Gases, Method of and apparatus for cleaning. A. N. Diehl. 1,455,834; May 22.
Gasket composition, Elastic. J. Ritter. 1,455,809; May 22.
Gasoline gauge and strainer. R. C. Albury. 1,456,352; May 22.
Gauge. M. C. Schweinert. 1,455,890; May 22.
Gear-cutting machine. F. W. Jury. 1,456,240; May 22.
Gear, Reduction. H. E. Twomley. 1,456,200; May 22.
Gears, Adjusting mechanism for friction. W. S. Crandell. 1,456,121; May 22.
Glass dish. W. H. Magee. Des. 62,404; May 22.
Glassware, Mechanism for conveying hot. M. J. Owens. 1,455,966; May 22.
Glove. H. Schröder-Stranz. 1,455,810; May 22.
Governor, Motor. W. W. Dean. 1,456,300; May 22.
Grain-cutting machine with automatic scoops. D. Gueibaum. 1,456,003; May 22.
Gramophones and the like, Record for. P. Balke and G. Leysieffer. 1,456,047; May 22.
Granular materials, Screening apparatus for. R. A. Leahy. 1,456,067; May 22.
Grate, Furnace. H. Benton. 1,456,418; May 22.
Grinder, Centerless. M. O. Reeves. 1,456,462; May 22.
Grinders, Bushing for automatic. A. E. White. 1,456,477; May 22.
Guard, Safety. H. Miller. 1,455,800; May 22.
Gun barrels, Expanding and smoothing the bores in. M. Anderson. 1,455,771; May 22.
Guns, Flashlight attachment for. J. P. Hise. 1,456,440; May 22.
Hair-cutting device. H. Froh. 1,456,432; May 22.
Hair, Device for waving natural. C. Nessler. 1,453,802; May 22.
Hair, Electric heating apparatus for waving or curling the. E. F. Suter. 1,456,343; May 22.
Hame tug. T. W. Graham. 1,456,020; May 22.
Hammer, Combination. F. J. Koch. 1,456,383; May 22.
Hand bag. J. Sims. Des. 62,424; May 22.
Hanger: *See*—
Picture hanger.
Harrows, etc., Spring support for. H. Petersen. 1,456,253; May 22.
Harvester and conveyer, Cotton. D. Daniel. 1,455,908; May 22.
Harvester, Corn. W. F. Ziegler. 1,456,206; May 22.
Harvesters and thrashers, Attachment for combined. W. R. Tandy. 1,456,156; May 22.
Hay-cocking machine. A. Savignac. 1,456,467; May 22.
Hayrack, Portable. A. R. Bentley. 1,456,356; May 22.
Headlight dimmer. J. D. Jones. 1,455,956; May 22.
Headlight mounting, Dirigible. H. C. Logan. 1,456,184; May 22.
Headlight photometer. C. S. Ricker. 1,456,150; May 22.
Heat exchange, Apparatus for. E. Shaw. 1,456,255; May 22.
Heater: *See*—
Electric heater. Wall heater.
Heater. V. Chwalkowski. Des. 62,393; May 22.
Heater and vaporizer, Liquid. C. E. Ward. 1,456,016; May 22.
Heating and cooling, Apparatus for. J. W. F. Macdonald. 1,456,136; May 22.
Helicopters, Differential drive for. R. P. Pescara. 1,456,399; May 22.
Highways and the like, Surfacing composition for. D. M. Hepburn. 1,456,492; May 22.
Hoist. D. P. Karcher. 1,456,131; May 22.
Hoisting apparatus. Z. E. Colby. 1,456,488; May 22.
Hoisting machine. C. Uhl. 1,455,897; May 22.
Hood clamp. F. Mueller. 1,456,396; May 22.
Hook: *See*—
Picture-molding hook. Snap hook.
Horseshoe. P. Levesque. 1,455,918; May 22.
Hub liner. W. W. Ramsey. 1,455,935; May 22.
Hydrocarbon motor. W. E. Blaine. 1,455,986; May 22.
Hydrocarbon motor. H. D. Church. 1,455,832; May 22.
Hydrocarbons, Process and apparatus for the production of low-boiling-point. J. C. Black. 1,456,419; May 22.
Ice-cream-cutting machine. S. D. Bracken. 1,455,988; May 22.
Ice machine. H. E. Willsie. 1,455,823; May 22.
Ignition device. C. S. Noe and J. Kaufman. 1,456,188; May 22.
Illusion appliance. L. E. Hammond and H. A. Smith. 1,456,233; May 22.
Incubator. J. Harris. 1,456,005; May 22.
Indicator. N. S. Harter. 1,456,310; May 22.
Indicator. R. Reynolds. 1,455,936; May 22.
Indicator. H. W. Sinuson. 1,456,155; May 22.
Indicator and recorder, Combined. H. J. Doolan. 1,455,835; May 22.
Inductances, Measuring and testing of. C. W. Robbins. 1,456,076; May 22.
Insulating material and making same. H. F. Weiss. 1,456,083; May 22.
Internal-combustion engine. E. L. Wiegand. 1,456,018; May 22.
Internal-combustion engine. G. E. Gunther. 1,456,004; May 22.
Internal-combustion engine. H. J. Fiedderman. 1,456,125; May 22.
Internal-combustion engine. M. F. Woodward. 1,456,171; May 22.
Internal-combustion motor. W. J. Snadecki. 1,455,815; May 22.
Ironing board, Folding. H. Pike. 1,456,193; May 22.
Irrigation apparatus, Automatically-working. E. Rolland. 1,456,464; May 22.
Jack: *See*—
Pneumatic jack.
Jack. E. E. Thomson. Re15,609; May 22.
Jack. F. Hisemann. 1,456,379; May 22.
Jar-trimming machine. J. L. Kivlan. 1,456,276; May 22.
Jewelry, Safety clasp for. E. C. Grassman. 1,456,305; May 22.
Jig-conveyer motor. L. Linkowski. 1,456,389; May 22.
Joint: *See*—
Knuckle joint. Universal joint.
Rail joint.
Kite, Collapsible. R. A. Trombley. 1,456,260; May 22.
Knuckle joint. H. C. Lord. 1,456,068; May 22.
Lace. G. Radford. Des. 62,411; May 22.
Lamp. H. Christensen and E. L. Brunswick. 1,455,902; May 22.
Lamp bracket. C. E. Godley. 1,455,784; May 22.

Lamp dimming pull socket, Thermostatic. R. D. Smith. 1,456,285; May 22.
Lamp, Front for a traffic-directing signal. O. Krochle. Des. 62,401–3; May 22.
Lamp support. W. Berk. 1,456,297; May 22.
Lamp support. V. W. Pagé. 1,456,459; May 22.
Lamp, table lamp, and pedestal, Combination floor. J. Rosenberg. 1,456,194; May 22.
Lamps, Casing for parking. C. S. Overton. Des. 62,408; May 22.
Lantern, Signal. F. J. Rode, R. I. Frost, and J. L. Liston. 1,455,938; May 22.
Lap preventer, Split-. W. Harrop, P. Reilly, and P. F. Farrell. 1,455,884; May 22.
Lasting with wire. M. M. Sörensen. 1,456,288; May 22.
Latch. W. S. Witten. 1,456,169; May 22.
Lathes and the like, Chuck for. C. D. Andrew. 1,456,293; May 22.
Lens-edging machine. L. W. Bugbee. 1,455,863; May 22.
Level and plumb. D. W. L. Frank. 1,456,431; May 22.
Level-wind antibacklash reel. W. Schmid. 1,456,283; May 22.
Lid brace. L. Grauman. 1,455,876; May 22.
Lid lifter. F. G. Treuble. 1,456,157; May 22.
Lifter: *See*—
Lid lifter.
Light-cleaning apparatus. J. A. H. Bell. 1,455,773; Mar. 22.
Linear dimensions, Optical method of obtaining. R. W. Wood. 1,455,825; May 22.
Lingerie pin. E. Diefenbacher. 1,456,301; May 22.
Liquid-level gauge. J. B. Mullally. 1,455,965; May 22.
Liquids, Safety device for plants delivering inflammable. M. Ludwig. 1,456,390; May 22.
Lithopone and manufacture. W. F. Meister. 1,455,963; May 22.
Loading and unloading device. A. L. Oliphant. 1,456,278; May 22.
Lock: *See*—
Automobile wheel lock. Safe lock.
Bolt lock. Shackle lock.
Door lock. Window-sash lock.
Nut lock.
Lock. E. Anderson. 1,455,770; May 22.
Lock for filler caps. H. G. Voight. 1,456,161; May 22.
Lubricating cup. J. G. Mueller, C. A. and H. M. Granzow. 1,455,849; May 22.
Lubricating device for remote movable and other parts, Automatic. J. V. Rice, jr. 1,456,009; May 22.
Lubricating mechanism. S. Y. Monckton. 1,456,327; May 22.
Lubricator. J. L. Downs. 1,455,868; May 22.
Lubricator provided with a distributing roller rotating within an oil reservoir and a device for obtaining a permanently uniform oil level within such reservation. A. Grützner. 1,456,306; May 22.
Magnet frame. J. Burke. 1,456,120; May 22.
Magneto. B. Ames. 1,456,113; May 22.
Magneto. H. F. Geist. 1,456,001; May 22.
Make and quick-break knife switch, Manually-controlled quick-. H. G. Pape. 1,455,931; May 22.
Mandrel and gauge, Combination. F. J. Sikorovsky. 1,455,973; May 22.
Massage device. J. O. Linden. 1,456,452; May 22.
Material, Apparatus for puffing or disintegrating. A. R. Spencer and W. J. Plews. 1,455,975; May 22.
Mattress, cushion, and seat. C. C. Meutsch. 1,455,847; May 22.
Measuring distortion, System for. M. Kirkwood. 1,455,843; May 22.
Merry-go-round. J. A. Franklin. 1,456,228; May 22.
Mesh bag. H. B. Rowan. Des. 62,415; May 22.
Metal dust and making the same. M. H. Newell. 1,456,035; May 22.
Metal, Machine for cambering and tempering. C. Girl and H. S. Jandus. 1,456,489–90; May 22.
Metal monoxidizable and the metal, Rendering. W. J. Keep. 1,456,274; May 22.
Metal plates, Uniting. J. C. Sander. 1,455,811; May 22.
Metal sections, Manufacture of extruded. M. A. Hardy. 1,456,128; May 22.
Metals with metal phosphides, Coating. S. Peacock. 1,456,252; May 22.
Meter: *See*—
Demand meter.
Milk can. F. J. Raub. 1,456,404; May 22.
Mill. D. D. Bare. 1,456,353; May 22.
Mixer: *See*—
Concrete mixer. Gas and air mixer.
Fuel mixer. Water mixer.
Moistener, Air. A. Bement. 1,456,417; May 22.
Mold: *See*—
Concrete mold. Stave mold.
Fencepost mold. Tire mold.
Molding machine. W. Lewis. 1,456,319; May 22.
Molding machine for plastic materials. F. E. Beam. 1,456,174; May 22.
Molding machine, Rollover. W. Lewis. 1,456,318; May 22.
Molding presses, Heating or cooling plate for. C. F. Burroughs. Re15,608; May 22.
Mortar, Acidproof. P. G. Ekström. 1,456,303; May 22.
Motor: *See*—
Hydrocarbon motor. Jig-conveyer motor.
Internal-combustion motor.
Motor cycles, Resilient suspension device for the front wheels of. S. Whiting. 1,455,948; May 22.
Motor drive. H. E. Warren. 1,456,082; May 22.
Motor fan, Adjustable. G. V. Domarus, jr. 1,455,910; May 22.
Mucker. E. W. Smith. 1,456,043; May 22.
Music rolls, Substitute end fastener for. S. W. Harris. 1,456,309; May 22.
Musical instruments, Pressure regulator for. T. F. Cheek. 1,455,900; May 22.
Necklace-fastening device. P. J. Conway. 1,455,903; May 22.
Necktie holder. J. Crnoev. 1,456,299; May 22.
Nonskid chains, Attaching device for. C. Moss. 1,456,071; May 22.
Nut lock. S. Novinski. 1,455,804; May 22.
Nut or bushing and making same, Shouldered. W. P. Crockett. 1,456,177; May 22.
Nuts, Manufacturing acorn. H. M. Brightman. 1,456,215; May 22.
Oil burner. J. Gilmore. 1,455,874; May 22.
Oil burner, Atomizing. R. Crane. 1,456,266; May 22.
Oil-burning system. H. A. Tedman. 1,456,198; May 22.
Oil burning systems, Safety device for. H. A. Tedman. 1,456,199; May 22.
Oil-control apparatus, Fuel-. H. A. Tedman. 1,456,197; May 22.
Oil, Extracting. H. A. Wentworth. 1,456,019; May 22.
Oil filter, Pressure. F. E. Collins. 1,456,095; May 22.
Oil purifier. A. R. Glinn. 1,455,911; May 22.
Oil tanks and other structures, Apparatus for automatically extinguishing fires in. O. J. Holmes. 1,455,789; May 22.
Oiling device. W. M. White. 1,455,947; May 22.
Optical apparatus for measuring small angles. A. Barr and W. Stroud. 1,455,772; May 22.
Ore separator. S. H. Whitney. 1,456,165; May 22.
Oven, Baking. V. A. Kincannon. 1,456,382; May 22.
Overshoe holder. W. Dalberg. 1,456,364; May 22.
Packing case. L. C. Doane. 1,456,098; May 22.
Paper box. H. C. Kessler. 1,455,792; May 22.
Paper machines, Paper-roll track for. W. H. Sanburn. 1,456,077; May 22.
Paper or pulp container. F. Coates. 1,456,423–4; May 22.
Pavement and laying same. E. H. Trebes. 1,456,080; May 22.
Percolator, teapot, or similar article, Coffee. A. H. Sander. Des. 62,416; May 22.
Phonograph. C. J. Hofmann. 1,455,913; May 22.
Phonograph. G. M. Rentz. 1,456,039; May 22.
Phonograph record. W. C. Hadley. 1,456,434; May 22.
Phonograph record. W. H. Rose. 1,455,886; May 22.
Phonograph sound box. W. M. Venable. 1,455,942; May 22.
Photographic-printing device. A. G. Ogden. 1,456,073; May 22.
Physical-culture apparatus. W. D. Molby. 1,456,030–1; May 22.
Picture hanger. A. J. Maier. 1,455,961; May 22.
Picture-molding hook. E. B. Tracy. 1,456,476; May 22.
Picture screen and making same, Projection. F. J. Adams. 1,455,982; May 22.
Pin: *See*—
Dowel pin. Safety pin.
Lingerie pin.
Pin, emblem, medal, ring, or similar article. C. B. Dyer. Des. 62,396; May 22.
Pipe drain. A. Hess. 1,456,437; May 22.
Pipe-pulling machines, Attachment for. L. W. Fetzer. 1,455,999; May 22.
Pipe wrench. G. D. Becker. 1,456,480; May 22.
Piston packing, Metallic. H. M. Bramberry. Re15,610; May 22.
Piston-ring tester. R. H. Busick. 1,455,864; May 22.
Piston, Sheet-metal. S. D. Hartog. 1,455,786; May 22.
Pitcher. H. A. Church. Des. 62,392; May 22.
Pitchfork. E. Luukkonen. 1,456,455; May 22.
Plant, Steam-power. J. A. Doble. 1,456,226; May 22.
Plaque or similar article. G. S. Hunt. Des. 62,398; May 22.
Plug cock and lubricating means therefor. J. C. Martin, jr. 1,456,326; May 22.
Pneumatic jack. W. F. Kelly. 1,455,841; May 22.
Poke, Animal. H. Brown. 1,455,861; May 22.
Polish, Metal. W. A. Ruddell. No. 1,456,151; May 22.
Post-office-box door. G. F. Steele, jr. Des. 62,425; May 22.
Post-office-drawer front. G. F. Steele, jr. Des. 62,426; May 22.
Powder box and the like, Talcum. A. Zirion y Saravia and R. M. Rodriguez. Des. 62,419; May 22.
Power generation. J. A. Bishop. 1,456,212; May 22.
Power plant. L. S. Keilholtz. 1,455,790; May 22.
Press: *See*—
Photographic-printing press. Printing press.
Press. F. E. Stevenson. 1,456,257; May 22.
Press feeders, Separator foot for. J. G. Dixon. 1,456,225; May 22.

Presses, Attachment for baling. E. Brooks. 1,456,265; May 22.
Presses, Means for operating. F. E. Stevenson. 1,456,014; May 22.
Pressboard, Binder's. E. W. Palmer. 1,456,189; May 22.
Printing, Marginal. A. J. Gallien. 1,456,182; May 22.
Printing press. W. E. Amberg. 1,456,292; May 22.
Production process, Means for controlling a. L. Logan. 1,455,795; May 22.
Publicity, Apparatus for movable. H. F. E. S. Dusseris. 1,456,124; May 22.
Puller: *See*—
Fuse-plug puller.
Pulley-block carrier. T. F. Webster. 1,456,346; May 22.
Pulp, Making waterproof rigid articles from. W. H. and J. J. Drake. 1,456,370; May 22.
Pump. R. Hildebrand. 1,455,788; May 22.
Pump, Centrifugal. W. D. Carter. 1,456,051; May 22.
Pump, Condenser and vacuum. B. Skidmore, jr. 1,456,195; May 22.
Pump for motor vehicles, Auxiliary. J. G. Vincent. 1,456,201; May 22.
Pump, Oil. V. W. Pagé. 1,456,461; May 22.
Pump, Oil-well. C. E. Wilcox. 1,456,166; May 22.
Pump, Pneumatic. T. E. Smythe. 1,456,013; May 22.
Pump swab. J. Penrod and R. D. Thompson. 1,455,851; May 22.
Quick-acting wrench. C. J. Armstrong. 1,456,208; May 22.
Rack: *See*—
Display rack. Spool and thimble rack.
Radiator cap. E. M. Nelson. 1,456,333; May 22.
Radiator curtain. C. C. Woodberry. 1,456,170; May 22.
Radiators, Machine for making connector tubes for. G. H. Lober. 1,455,919; May 22.
Raft, Pneumatic life. C. C. Witmer and B. Havens. 1,456,168; May 22.
Rail clip, Adjustable switch-. R. E. Einstein. 1,455,996; May 22.
Rail joint. S. Shull. 1,455,814; May 22.
Rail spike. H. O. Crippen. 1,456,363; May 22.
Railways, Support for overhead wires of electric. H. Westphal. 1,456,084; May 22.
Range, Desiccating and incinerating. N. M. Hopkins. 1,456,022; May 22.
Razor-blade-sharpening device, Safety-. J. Barton. 1,456,355; May 22.
Reed fabric and the like, Method of and means for binding the edges of. M. B. Lloyd. 1,455,959; May 22.
Reel: *See*—
Level-wind antibacklash reel.
Reflocculated product and preparing same. E. G. Acheson. 1,456,112; May 22.
Regulating apparatus. F. H. Brown. 1,455,860; May 22.
Regulator: *See*—
Electric regulator.
Repeater system. E. D. Johnson. 1,455,957; May 22.
Resilient vehicle wheel. G. H. Lantz. 1,456,066; May 22.
Rheostat. W. G. Clark. 1,455,903; May 22.
Rim, Automatic boltless. A. Forsman. 1,456,375; May 22.
Rim, Sectional. A. Bennett and J. H. Hatchett. 1,455,857; May 22.
Rim, Spring. P. Eisenbach. 1,455,997; May 22.
Ring. W. S. Robertson. Des. 62,414; May 22.
Rivets, Method and mechanism for continuously producing and setting. H. Stuebner. 1,456,079; May 22.
Rolling mills, Indicator for the adjusting screws of. P. C. Haldeman. 1,456,491; May 22.
Rolls, Delivering material from. W. M. Wheildon. 1,456,291; May 22.
Roof, Car. C. D. Bonsall. 1,455,776–7; May 22.
Roofing, Method and machine for making prepared. A. E. Currier. 1,456,224; May 22.
Roost. D. J. Foshee. 1,456,056; May 22.
Rossing machine. J. Moravec. 1,456,328; May 22.
Rotary engine. T. Charlton. 1,456,222; May 22.
Rotary engine. A. E. Greene. 1,456,232; May 22.
Rubber, Apparatus for treating. W. H. Bines. 1,456,211; May 22.
Rubber composition, Unvulcanized. F. W. Stockton. 1,455,893; May 22.
Safe lock, Combination. M. C. Hoard; 1,455,912; May 22.
Safety catch. E. Morehouse. 1,456,140; May 22.
Safety operating mechanism. H. De Smith. Re15,611; May 22.
Safety pin. W. W. Maxey. 1,456,070; May 22.
Sand trap. J. M. Fleming. 1,455,871; May 22.
Sand swab. J. Penrod and R. D. Thompson. 1,455,850; May 22.
Saw, Insertible-tooth. A. E. Proctor. 1,455,968; May 22.
Saw-setting device. E. E. Washburn. 1,456,164; May 22.
Saw sharpening and setting machine. T. H. Laury. 1,455,917; May 22.
Saw support. W. G. Peacock. 1,456,192; May 22.
Saw vise. T. Ralfs. 1,456,338; May 22.
Scale and tongs, Combined. A. Agronofsky. 1,455,828; May 22.
Scale foundation, Platform-. J. J. Magrady. 1,455,798; May 22.
Screening and sizing process and apparatus. G. C. Hackstaff. 1,455,785; May 22.
Screw propeller. H. Leitner. 1,456,387; May 22.
Screw threads, Milling. G. Richards. 1,456,280; May 22.
Seal, Hermetic. F. W. Stockton. 1,455,894; May 22.
Sedans, Seat box for Ford. H. Miller. 1,456,247; May 22.
Semisolid or plastic materials, Dispensing apparatus for. H. W. Williams. 1,455,980; May 22.
Separator: *See*—
Ore separator. Tooth separator.
Sewage, Apparatus for and method of treating. J. P. Ball. 1,456,046; May 22.
Sewing accessory. V. V. Moore. 1,456,032; May 22.
Sewing-machine-shafting guard. J. L. Cabelinsky. 1,455,809; May 22.
Shackle lock. A. Mielnicki. 1,455,921; May 22.
Shaft drive for combination drilling and well pulling. L. R. Morris. 1,456,186; May 22.
Shaft-straightening apparatus. H. M. Brightman. 1,456,217; May 22.
Sharpener, Saw. O. Ramsey. 1,456,402; May 22.
Shield, Storm. J. Bauer. 1,455,829–30; May 22.
Shock absorber. G. E. Dennis. 1,456,367; May 22.
Shock absorber. J. W. Lusk. 1,455,920; May 22.
Shock absorber. H. B. Shaeffer. 1,456,470; May 22.
Shock absorber, Radius-rod. G. E. Dennis. 1,456,368; May 22.
Shoe. L. E. Murphy. 1,456,251; May 22.
Shoe. O. B. Salisbury. 1,455,887; May 22.
Shuttle eye. A. E. Ravenelle. 1,456,405; May 22.
Sifter. M. Hagen. 1,456,435; May 22.
Sign. S. H. Furry. 1,456,230; May 22.
Sign flasher. J. H. Wheelock. Re15,613; May 22.
Signal: *See*—
Vehicle traffic signal.
Signal head. P. H. Schulz and C. Jessen. Des. 62,421; May 22.
Signaling system. E. D. Johnson. 1,455,958; May 22.
Signaling system. E. D. Johnson. 1,456,059; May 22.
Sleds, Attachment for hand. P. R. Peterson. 1,456,325; May 22.
Slop jars and the like, Attachment for. C. W. and A. H. Weaver. 1,456,017; May 22.
Sludge separating and drying basin, Combined. K. Imhoff. 1,456,312; May 22.
Snap hook, Safety. H. Billmeyer. 1,456,264; May 22.
Socket wrench. G. Broxton. 1,456,358; May 22.
Sole-cutting machine. E. J. Ray. 1,456,038; May 22.
Sole-laying machine. E. E. Winkley. 1,455,952; May 22.
Sound-box structure. C. Scrabic. 1,455,972; May 22.
Sound, Machine for recording and reproducing. F. W. Downe. 1,456,180; May 22.
Spark plug. W. F. Jenkins. 1,456,129; May 22.
Spark plug. D. F. Pyle and J. Anderson. 1,455,852; May 22.
Spark plugs, Apparatus for making. D. F. Pyle and J. Anderson. 1,455,853; May 22.
Speed-control device, Automatic. C. C. Farmer. 1,456,269; May 22.
Spoke socket, Repair. M. K. Johnson. 1,456,449; May 22.
Spool. J. M. Brown. 1,455,770; May 22.
Spool and thimble. B. D. Powell. 1,456,401; May 22.
Spool carriage, Swinging. O. W. Pausch. 1,455,806; May 22.
Spotlight-projecting device. E. D. Neff. 1,455,929; May 22.
Spout. P. N. Hooper. 1,456,445; May 22.
Spring: *See*—
Vehicle spring.
Springs, Means for lubricating leaf. J. I. Richey. 1,456,463; May 22.
Stamps, labels, or sealing strips to packages, Machine for applying. G. W. Gwinn. 1,456,307; May 22.
Stave mold, Multiple-. J. W. Warren. 1,456,411; May 22.
Stay-bolt structure. J. R. Flannery and E. I. Dodds. 1,455,837; May 22.
Steam-boiler furnace. J. J. Bridgeford. 1,456,119; May 22.
Steel or iron bars, tubes, shafts, rock drills, and the like, Manufacture of hollow. R. A. Bedford. 1,455,856; May 22.
Steering mechanism, Vehicle. L. C. Vanderlip. 1,455,941; May 22.
Stone, Paving. T. Ito. 1,456,259; May 22.
Stopper. J. L. Wentz. 1,455,978; May 22.
Stove and furnace, Slack-burning. R. E. Jones. 1,456,380; May 22.
Stove, Folding cook. M. Sussman. 1,456,474; May 22.
Structure, Collapsible. S. White. 1,456,478; May 22.
Sugar-washing and water-measuring device. W. W. Hartman. 1,456,270; May 22.
Surge-relief device. R. E. McLaughlin. 1,456,391; May 22.
Surgical retractor. A. N. Bessesen, sr. 1,456,116; May 22.
Sweeper, Street. E. R. Martin. 1,456,393; May 22.
Swimming appliance. P. L. L. Yorgensen. 1,455,826; May 22.
Switch: *See*—
Diaphragm switch. Time switch.
Electric switch.
Syringe. O. O. R. Schwidetzky. 1,456,469; May 22.
Table: *See*—
Chiropractic table.

Tables, Flushing system for starch. A. W. H. Lenders. 1,456,243; May 22.
Tablet and grave marker, Memorial. E. D. Harding. 1,455,882; May 22.
Tack-making machines, Feeding device for. G. A. Parker. 1,456,190; May 22.
Tank. H. Logan. 1,455,796; May 22.
Tanks, Depth gauge for. T. E. Parrott. 1,456,334; May 22.
Tanks, Magnetic control of flush. C. H. Staats. 1,456,196; May 22.
Tape feed and moistening machine. R. M. Brooks. 1,455,859; May 22.
Target, Self-indicating. A. Vangen. 1,456,015; May 22.
Teapot or similar article. A. H. Sander. Des. 62,417–18; May 22.
Telephone or other sound receiver. L. Steinberger. 1,455,817–18; May 22.
Telephone system. G. A. Yanochowski. 1,455,954; May 22.
Telephone system. G. A. Yanochowski. 1,456,172; May 22.
Telephone system, Machine-switching. R. C. Arter. 1,455,769; May 22.
Telephone system, Semiautomatic. B. D. Willis. 1,455,951; May 22.
Tension device. H. E. Van Ness. 1,456,263; May 22.
Textile fabric. H. B. Feldman. Des. 62,397; May 22.
Textile fabric or similar article. J. H. Bunting. Des. 62,391; May 22.
Theft-preventive device. A. T. Holder. 1,456,272; May 22.
Thermometer. W. A. Phillips. 1,456,400; May 22.
Thermoplastic composition and compounding the same. E. de Stubner. 1,456,369; May 22.
Thrashing-machine attachment. O. Hoffman. 1,456,441; May 22.
Thread-cutting machine. F. W. Hessmer. 1,456,439; May 22.
Threads of two warps, Machine for uniting together the. R. Hartmann. 1,456,006; May 22.
Time switch, Automatic. E. A. Meyer. 1,456,139; May 22.
Timer. J. E. Higby. 1,456,485; May 22.
Timing device. E. G. Johansson. 1,456,313; May 22.
Tire. F. Disch. Des. 62,395; May 22.
Tire. A. K. Simmons. Des. 62,422–3; May 22.
Tire. H. B. Walton. 1,456,163; May 22.
Tire. T. E. Ware. 1,456,202; May 22.
Tire armor. L. C. Bonifacino and M. B. Irby. 1,456,421; May 22.
Tire, Automobile. B. F. Worrell. Des. 62,432; May 22.
Tire casing, Pneumatic. H. F. Andrich. 1,455,855; May 22.
Tire chain. R. W. Evans. 1,456,181; May 22.
Tire chains, Tool for applying and removing. L. D. Falconer. 1,456,484; May 22.
Tire-forming roller, Rubber. R. McClenathen. 1,456,109; May 22.
Tire mold, Cast-steel. J. H. Mulloy. 1,456,187; May 22.
Tire, Pneumatic. E. B. Killen. 1,456,062; May 22.
Tire tread. F. W. Daniel. Des. 62,394; May 22.
Tire tread. H. D. Reichard. Des. 62,412–13; May 22.
Tire tubes, Leak detector for. H. M. Matthews. 1,455,962; May 22.
Tires and plug for that purpose, Repairing or closing punctures in pneumatic. W. C. Ranney. 1,456,403; May 22.
Tires, Automatic puncture-closing device for pneumatic. M. Resk. 1,456,075; May 22.
Tires, Machine for forming pneumatic. B. De Mattia. 1,456,425; May 22.
Tires, Patch for pneumatic. J. I. Berg. 1,456,115; May 22.
Tobacco smoking and curing apparatus. J. H. L. Johnson. 1,455,915; May 22.
Toilet-article container. A. Ftyklo. 1,455,783; May 22.
Toilet case. W. Lindenmayer. 1,456,454; May 22.
Tool, Movable-jawed. F. H. Rauh. 1,456,339; May 22.
Tooth separator. G. M. Arrowsmith. 1,456,294; May 22.
Toothbrush and tumbler supporting fixture. J. H. Balmer. Des. 62,389; May 22.
Towing device. J. F. Graff. 1,455,875; May 22.
Toy. E. R. Jones. 1,456,239; May 22.
Toy doll. C. H. Pajeau. Des. 62,409; May 22.
Toy, Land and water. J. L. Duggan. 1,456,429; May 22.
Traction wheel. L. J. Felley. 1,455,869; May 22.
Tractors, Pulley attachment for. H. C. Uttech. 1,456,160; May 22.
Traffic signal. W. Thomas, jr. Des. 62,429; May 22.
Train-stopping apparatus, Automatic. C. C. Hole. 1,456,442; May 22.
Train-stopping apparatus, Track-device for automatic. C. C. Hole. 1,456,443; May 22.
Transmission mechanism, Direction-changing. R. H. White. 1,456,349; May 22.
Transmission, Selective circuit for multiplex. H. A. Affel. 1,455,827; May 22.
Trap: *See*—
  Animal trap.
  Sand trap.
Trinket, Jewelry. H. Nalty. Des. 62,406; May 22.
Trinket or similar article. A. Stuetzel and H. W. Bohn. Des. 62,427; May 22.
Trommel screen, Vibrating. A. C. Daman. 1,455,907; May 22.
Trough, Hog-watering. T. Carmichael. 1,455,989; May 22.
Truck. J. C. E. Bourassa. 1,455,987; May 22.
Truck, Unloading. C. A. Swanson. 1,455,821; May 22.
Trunk, Wardrobe. F. W. Meyer. 1,455,964; May 22.
Tub. J. J. Walton. 1,455,945; May 22.
Tube: *See*—
  Automobile tube.
Tube and tire repair material. A. E. Stephenson. 1,456,078; May 22.
Tube, Leakproof inner. G. C. Berryman. 1,455,775; May 22.
Turbine. W. J. Edney. 1,456,122; May 22.
Turbine, Elastic-fluid. J. Wilkinson. 1,456,085; May 22.
Turbine water wheel. R. W. McNeill. 1,456,322; May 22.
Turning and treading machine. J. A. Eden, jr. 1,456,101; May 22.
Typewriter. G. F. Scheffer. 1,455,813; May 22.
Typewriting machine. E. E. Barney. 1,456,296; May 22.
Typewriting machine. W. A. Dobson. 1,456,302; May 22.
Typograph mechanism. W. A. Reade. 1,455,885; May 22.
Typographical machine. A. Heldrich. 1,456,436; May 22.
Universal joint. J. N. Morris. 1,456,329; May 22.
Uppers, Pulling over. M. M. Sörensen. 1,456,287; May 22.
Vacuum cleaner. H. A. R. Peterman. 1,455,933; May 22.
Valve. E. S. McGee. 1,456,244; May 22.
Valve. T. J. McKenzie. 1,456,277; May 22.
Valve, Combined stop and safety. M. W. Stoms. 1,455,940; May 22.
Valve for inner tubes, Air. S. Holick. 1,456,444; May 22.
Valve for rotation motors, Hand-regulating. C. C. Hansen. 1,456,234; May 22.
Valve, Gas-engine. B. R. Nyhagen. 1,456,144; May 22.
Valve insides, Attachment for. M. C. Schweinert. 1,455,891; May 22.
Valve mechanism. F. S. Bennett. 1,456,090; May 22.
Valve mechanism, Air-controlling. J. D. Benbow. 1,456,050; May 22.
Valve pad for inner tubes and making same. J. A. Bowerman. 1,456,357; May 22.
Valve-stem key tool. F. C. Hartson and G. A. Donath. 1,456,007; May 22.
Valves, Recording apparatus for. C. E. Renshaw. 1,456,148–9; May 22.
Vanity case. G. C. Hill. 1,455,840; May 22.
Vanity case. W. G. Kendall. 1,456,450; May 22.
Variometer. H. P. Donle. 1,456,267; May 22.
Vehicle, Aerial. C. O. Barrera. 1,456,210; May 22.
Vehicle brake, Automatic. J. D. Workman. 1,456,416; May 22.
Vehicle, Side-dump. J. K. Exum. 1,456,374; May 22.
Vehicle signal, Motor. M. R. J. Bruine. Des. 62,390; May 22.
Vehicle spring. J. Bilan. 1,456,117; May 22.
Vehicle top and boat. J. A. Cowan. 1,455,994; May 22.
Vehicle traffic signal. R. F. Bower. 1,455,778; May 22.
Vehicle wheel. A. F. Kelly. 1,456,275; May 22.
Vehicle wheel. E. J. Krpata. 1,456,451; May 22.
Vehicle wheel. J. Lang. 1,455,844; May 22.
Vehicles, Bumper for motor. F. K. Rogers. 1,456,281; May 22.
Vehicles, Combined wind deflector, sunshade, and side inclosure for. C. E. Childs. 1,455,991; May 22.
Vehicles, Driving wheel for motor. G. R. Walker. 1,455,943; May 22.
Vehicles, Elastic suspension for. L. L. Driggs and L. L. Driggs, jr. 1,456,371; May 22.
Vehicles, Endless-track structure for motor-driven. W. C. Cox. 1,455,906; May 22.
Vehicles, Lateral dirigible light for. C. E. Stoner. 1,456,258; May 22.
Vehicles, Safety device for motor. A. Rygiel and J. Stern. 1,456,465; May 22.
Vehicles traveling upon railways, Frame for. H. F. E. L. Callot. 1,455,866; May 22.
Ventilator. G. C. Jordan. 1,456,381; May 22.
Vessels, Rotating scraper for cleaning the skin of. A. J. F. Lee. 1,456,386; May 22.
Violin, Diaphragm. J. Kalaf, jr. 1,455,916; May 22.
Violins, Shoulder rest for. O. S. Colbentson. 1,455,992; May 22.
Vise. F. Danielson. 1,456,365; May 22.
Wall construction. H. R. Kreitzer. 1,456,063; May 22.
Wall construction. A. J. Mueller. 1,456,330; May 22.
Wall heater. H. E. Stein. 1,456,472; May 22.
Washing machine. H. S. Craver. 1,456,052–3; May 22.
Washing machines, Attachment for. F. Henson. 1,456,271; May 22.
Water heater. G. Moerloose. 1,456,487; May 22.
Water mixer, Thermostatic. F. W. Powers and M. O. Snediker. 1,455,934; May 22.
Weather strip. S. Dixon and A. S. Baldridge. 1,456,097; May 22.
Weather strip, Threshold. G. P. Rasck. 1,456,037; May 22.
Web rolls and other materials, Tensioning means for. W. C. Stevens. 1,455,976; May 22.

Welding machine, Chain. T. C. Luce. 1,456,026; May 22.
Well drill. J. F. Tunnell. 1,456,158; May 22.
Well drill, Collapsible rotary. F. A. Widmer. 1,456,350; May 22.
Wheel: *See*—
  Resilient vehicle wheel.
  Traction wheel.
  Turbine water wheel.
  Vehicle wheel.
Wheel brake, Front. V. W. Pagé. 1,456,460; May 22.
Windmill. A. Brzykcy. 1,455,862; May 22.
Windmill. I. F. William. 1,455,950; May 22.
Window-sash lock. C. G. Callan. 1,455,865; May 22.
Window scaffold. G. L. Cresson. 1,456,362; May 22.
Window stop. L. Fry. 1,456,229; May 22.
Windows, Operating device for swinging. W. Schonfield. 1,456,468; May 22.
Windshield. F. E. Brown. 1,456,221; May 22.
Windshield wiper. F. Kritz. 1,456,316; May 22.
Wire tensioning and twisting machine. A. J. Gerrard and P. Wright. 1,456,127; May 22.
Wire tightener. F. Ness. 1,456,143; May 22.
Wires, Machine for capping bundles of tie. P. Wright. 1,455,953; May 22.
Wireless signaling, Modulated signaling system particularly applicable to. N. Lea. 1,455,845; May 22.
Wireless-telegraph receiver. L. B. Turner. 1,455,896; May 22.
Woods and other porous substances, Treating. F. H. McPherson and J. M. Abrams. 1,456,323; May 22.
Work support. W. T. B. Roberts. 1,456,040; May 22.
Wrench: *See*—
  Adjustable wrench.
  Cap wrench.
  Pipe wrench.
  Quick-acting wrench.
  Socket wrench.
Wrench. R. Voinov. 1,455,822; May 22.
Writing implement. W. F. Kelly. 1,455,842; May 22.
Writing implements, Guard for. O. A. Gronlund. 1,455,879; May 22.
Yarn cleaner. H. E. Van Ness. 1,456,261–2; May 22.
Yarn-tension device. A. M. Pigeon. 1,456,074; May 22.

CLASSIFICATION OF PATENTS

ISSUED MAY 22, 1923.

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145.8: 1,456,476
42— 3: 1,456,482
4: 1,455,880
1,455,881
43— 81: 1,456,377
88: 1,456,415
109: 1,456,395
118: 1,455,808
119: 1,455,782
1,456,413
45— 24: 1,455,944
50: 1,455,922
58: 1,456,137
46— 27: 1,456,228
40: 1,456,422
45: 1,456,299
1,456,429
56: 1,456,308
61: 1,456,162
69: 1,456,030
1,456,031
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48— 180: 1,456,135
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49— 66: 1,455,853
51— 63: 1,456,355
101: 1,455,863
116: 1,456,462
236: 1,456,477
52— 7: 1,456,341
53— 3: 1,456,010
6: 1,456,238
7: 1,455,780
54— 30: 1,456,020
55— 65: 1,455,797
56— 63: 1,456,012
100: 1,456,206
470: 1,456,123
59— 31: 1,456,026
79: 1,455,883
87: 1,456,361
60— 13: 1,456,479
27: 1,456,226
61— 11: 1,455,816
19: 1,456,212
68: 1,456,386
62— 118: 1,455,823
64— 12: 1,455,899
25: 1,455,935
31: 1,455,947
62: 1,455,981
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65— 46: 1,456,185
67— 23: 1,456,134
116: 1,456,487
68— 10: 1,456,193
18: 1,456,271
70— 17: 1,455,770
53: 1,455,912
90: 1,456,021
1,456,161
106: 1,455,921
129: 1,455,941
71— 6: 1,456,332
8: 1,456,046
72— 29: 1,456,330
41: 1,456,048
1,456,373
77: 1,455,798
102: 1,456,063
73— 31: 1,455,890
51: 1,455,864
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1,456,004
52: 1,456,400
83: 1,455,905
120: 1,456,334
74— 7: 1,456,160
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74— 7: 1,456,493
26: 1,456,121
28: 1,455,943
35: 1,456,200
53: 1,456,320
59: 1,456,349
85: 1,456,125
102: 1,455,862
108: 1,455,786
1,456,166
1,456,171
109: R. 15,610
75— 1: 1,456,088
153: 1,456,035
76— 36: 1,455,917
44: 1,456,402
50: 1,456,164
78: 1,456,338
77— 58: 1,456,351
78— 46: 1,456,079
79— 2: 1,456,024
80— 56: 1,456,491
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81— 3: 1,455,578
3.1: 1,456,126
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66: 1,456,480
133: 1,456,208
165: 1,456,290
1,456,358
186: 1,455,822
82— 9: 1,456,028
40: 1,456,293
43: 1,455,973
83— 6: 1,456,008
1,456,034
8: 1,456,353
26: 1,456,175
56: 1,455,785
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1,456,067
60: 1,456,435
73: 1,455,898
80: 1,455,854
82: 1,456,165
84— 162: 1,456,309
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296: 1,455,916
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86— 48: 1,456,154
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88— 1: 1,456,427
2.2: 1,455,825
2.7: 1,455,772
23: 1,456,150
24: 1,456,233
28: 1,456,086
90— 9: 1,456,240
91— 14.5: 1,455,859
67.9: 1,456,224
68: 1,455,982
70.2: 1,456,274
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93— 36: 1,456,248
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59: 1,456,096
94: 1,455,979
94— 11: 1,456,080
12: 1,456,259
95— 17: 1,456,372
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97— 15: 1,456,359
98— 2: 1,456,099
3: 1,456,381
17: 1,455,892
99— 2: 1,455,975
12: 1,456,323
100— 24: 1,456,189
25: 1,456,265
44: 1,456,257
47: 1,456,430
101— 24: 1,455,904
97: 1,456,447
101— 378: 1,456,182
102— 39: 1,456,204
103— 12: 1,456,366
42: 1,455,788
106: 1,456,051
220: 1,455,850
1,455,851
1,455,871
1,456,277
248: 1,456,013
105— 165: 1,455,866
265: 1,456,049
270: 1,456,054
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416: 1,456,203
106— 1.5: 1,456,369
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22: 1,455,893
30: 1,456,303
31: 1,456,492
36.1: 1,455,791
107— 21: 1,455,988
57: 1,455,923
108— 5.4: 1,455,776
1,455,777
110— 1: 1,456,254
39: 1,456,138
58: 1,456,057
75: 1,456,119
88: 1,456,159
95: 1,456,023
112— 261: 1,455,800
113— 14: 1,456,409
114— 61: 1,455,833
116— 19: 1,455,937
21: 1,455,936
40: 1,456,347
48: 1,455,778
89: 1,456,209
119— 22: 1,456,056
33: 1,456,398
35: 1,456,005
96: 1,456,331
138: 1,455,961
120— 17: 1,456,241
121— 71: 1,456,222
137: 1,456,011
164: 1,456,389
122— 478: 1,456,016
123— 43: 1,456,232
51: 1,455,787
75: 1,456,144
82: 1,456,004
105: 1,456,337
122: 1,456,018
1,456,176
132: 1,456,790
134: 1,456,025
169: 1,455,852
1,456,129
170: 1,456,072
185: 1,456,481
196: 1,455,815
174— 15: 1,456,015
15.5: 1,456,191
176— 37: 1,456,474
59.5: 1,455,915
90: 1,456,472
113: 1,455,930
152: 1,455,858
163: 1,456,380
177: 1,456,418
222: 1,456,022
275: 1,456,382
127— 23: 1,456,243
128— 20: 1,456,116
60: 1,456,452
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130— 1: 1,456,441
131— 12: 1,456,437
132— 36: 1,455,802
79: 1,455,783
83: 1,456,450
1,456,453
1,456,454
92: 1,456,279
134— 16: 1,456,494
78: 1,455,963
135— 47: 1,456,304
137— 21: 1,455,796
71: 1,456,391
104: 1,456,980
111: 1,455,927
1,456,045
139: 1,456,090
138— 9: 1,455,841
1,456,379
17: 1,456,014
139— 9: 1,456,000
46: 1,456,405
140— 93: 1,456,127
94: 1,456,276
143— 141: 1,455,968
163: 1,456,192
144— 208: 1,456,328
146— 194: 1,456,456
147— 48: 1,455,959
148— 6: 1,456,252
22: 1,456,151
151— 6: 1,455,804
152— 1: 1,456,163
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12: 1,455,891
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1,456,444
13: 1,455,775
1,455,889
1,456,062
14: 1,456,071
1,456,181
1,456,412
1,456,473
16: 1,456,421
18: 1,455,855
21: 1,455,857
22: 1,456,075
1,456,202
26: 1,456,078
1,456,115
1,456,403
30: 1,455,869
37: 1,455,997
45: 1,456,066
50: 1,456,275
153— 1: 1,455,953
32: 1,455,919
37: 1,456,217
73: 1,456,069
154— 9: 1,456,109
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10: 1,456,425
14: 1,456,357
43: 1,456,047
44: 1,456,083
155— 7: 1,456,384
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128: 1,455,824
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156— 22: 1,456,214
158— 36: 1,456,197
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63: 1,455,874
76: 1,456,188
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91: 1,455,810
97: 1,456,475
118: 1,455,955
1,456,250
161— 15.5: 1,456,313
165— 40: 1,455,918
169— 4: 1,455,789
42: 1,455,805
170— 12: 1,456,950
129: 1,456,322
150: 1,456,337
163: 1,455,990
171— 34: 1,456,104
119: 1,456,287
209: 1,456,001
228: 1,456,092
229: 1,456,081
252: 1,456,120
172— 36: 1,456,082
173— 311: 1,456,110
175— 21: 1,456,108
183: 1,456,076
320: 1,456,100
355: 1,456,300
177— 7: 1,456,282
346: R. 15,613
347: 1,456,091
178— 44: 1,455,843
179— 4: 1,455,827
18: 1,455,769
27: 1,455,951
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58: 1,455,954
90: 1,455,998
115: 1,455,817
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170: 1,455,957
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1,456,059
180— 1: 1,456,457
8: 1,455,984
33: 1,456,220
69: 1,456,236
83: 1,456,485
181— 27: 1,455,913
182— 10: 1,456,105
13: 1,456,428
183— 7: 1,456,044
34: 1,455,884
40: 1,456,417
49: 1,456,360
184— 6: 1,456,009
1,456,461
45: 1,455,868
65: 1,456,327
84: 1,455,849
103: 1,456,306
188— 31: 1,456,272
65: 1,456,237
122: 1,456,416
172: 1,455,895
194: 1,456,460
189— 1: 1,456,478
190— 13: 1,455,964
191— 43: 1,456,084
192— 6: 1,456,103
27: 1,456,324
46: 1,455,901
68: 1,455,848
132: R. 15,611
193— 35: 1,455,977
1,456,029
41: 1,456,077
196— 25: 1,456,419
197— 63: 1,456,296
65: 1,455,813
159: 1,456,302
198— 7: 1,455,914
31: 1,455,966
219: 1,456,340
233: 1,456,156
199— 11: 1,456,436
66: 1,455,885
200— 17: 1,456,027
24: 1,456,485
30: 1,456,113
39: 1,456,139
50: 1,456,336
67: 1,455,931
1,455,960
76: 1,455,985
204— 29: 1,456,420
64: 1,456,107
65: 1,456,495
206— 41: 1,456,055
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64: 1,455,838
65: 1,456,098
207— 10: 1,456,128
208— 97: 1,455,948
210— 2: 1,456,312
44: 1,456,095
67: 1,456,270
165: 1,455,911
1,456,122

210—	165:	1,456,352	221—	80:	1,456,390	240—	7:	1,456,258	251—	3:	1,455,940	264—	16:	1,455,807	290—	37:	1,456,033
		1,456,438		94:	1,455,970			1,456,459		27:	1,456,244		20:	1,455,986		40:	1,456,284
211—	14:	1,456,446		02:	1,455,980		8.4:	1,456,440		93:	1,456,326	265—	22:	1,456,310	291—	1:	1,455,924
	17:	1,456,401	224—	23:	1,455,803		8.5:	1,455,938		137:	1,456,234		66:	1,455,828	292—	66:	1,456,396
212—	95:	1,456,218		29:	1,456,167		41:	1,455,929	252—		1,455,995	266—	6:	1,456,489		169:	1,456,041
214—	9:	1,456,467			1,456,247		48.4:	1,455,956			1,456,111			1,456,490		202:	1,456,229
	47:	1,456,236	226—	86:	R. 15,612		57:	1,455,784			1,456,112	267—	8:	1,456,371		204:	1,455,965
	52:	1,456,388	227—	5:	1,455,928			1,456,297	253—	77:	1,456,085		10:	1,456,470		216:	1,456,114
	78:	1,456,043		11:	1,456,106		62:	1,456,184	254—	5:	1,455,987		17:	1,455,920		238:	1,456,169
	125:	1,456,488	229—	4.8:	1,456,423		81:	1,456,194		67:	1,456,311			1,456,367		244:	1,456,456
215—	37:	1,455,894			1,456,424	241—	6:	1,455,888		78:	1,456,484		27:	1,456,117	293—	55:	1,456,281
		1,456,017		4.5:	1,456,133			1,455,926		82:	1,456,143		28:	1,456,483	294—	13:	1,456,157
	54:	1,455,978		17:	1,455,792	242—	6:	1,456,291		103:	R. 15,609		37:	1,456,463		49:	1,456,455
216—	58:	1,456,307			1,456,414		66:	1,455,976		166:	1,455,897		45:	1,456,410		64:	1,456,225
217—	1:	1,455,983		78:	1,456,036		71:	1,455,806		186:	1,456,131		66:	1,456,368	296—	45:	1,455,991
	52:	1,456,042		92.7:	1,456,325		84.5:	1,456,283		190:	1,456,346	268—	20:	1,456,468		92:	1,456,221
	60:	1,455,876	230—	1:	1,455,910		124:	1,455,779	255—	19:	1,456,186	271—	84:	1,456,292		95:	1,455,812
	122:	1,456,376			1,456,433		136:	1,456,032		35:	1,455,909	274—	2:	1,456,089			1,455,829
218—	15.1:	1,456,002		14:	1,456,195		149:	1,456,074		51:	1,456,406		17:	1,456,180			1,455,830
219—	10:	1,455,811		27:	1,456,089		150:	1,456,263		67:	1,456,153			1,456,354		137:	1,455,994
	24:	1,456,343			1,456,201	244—	3:	1,455,820		76:	1,456,158		24:	1,455,972	297—	9:	1,456,087
	31:	1,455,842		36:	1,453,900		14:	1,455,801			1,456,350		35:	1,455,942	298—	8:	1,456,278
	43:	1,455,909	232—	4:	1,456,227			1,456,210	257—	10:	1,456,136		41:	1,455,886			1,456,374
		1,456,141		41:	1,455,877		19:	1,456,399		132:	1,456,170			1,456,434		14:	1,455,821
	48:	1,456,223	234—	4.5:	1,456,148		22:	1,456,260		235:	1,456,255	277—	57:	1,456,050	299—	52:	1,456,464
	49:	1,456,285		27.5:	1,456,149		25:	1,456,008	259—	75:	1,456,147	279—	89:	1,455,969	300—	2:	1,455,982
	69:	1,455,903		31:	1,455,835	246—	200:	1,456,442		91:	1,456,152	280—	8:	1,456,335	301—	28:	1,456,375
220—	24:	1,456,333	235—	91:	1,455,799		202:	1,456,443		109:	1,456,448		14:	1,456,253			1,456,451
	25:	1,456,314			1,456,061		450:	1,455,996		144:	1,456,052		27:	1,456,142		70:	1,456,449
		1,456,315		98:	1,456,155	247—	16:	1,456,385			1,456,053		33.55:	1,455,875	302—	27:	1,455,908
	51:	1,456,246	236—	12:	1,455,934	248—	53:	1,455,974	261—	88:	1,456,219		166:	1,456,132	303—	6:	1,456,268
	63:	1,455,945		75:	1,455,860	250—	1:	1,455,795	262—	25:	1,455,925	283—	60:	1,456,471		21:	1,456,269
221—	11:	1,456,407		94:	1,455,846		6:	1,455,845	263—	22:	1,456,392	285—	47:	1,456,145	304—	27:	1,456,362
		1,456,408	238—	225:	1,455,814		8:	1,455,896		44:	1,456,205		122:	1,455,971	305—	10:	1,455,906
	27:	1,456,445	240—	2:	1,455,902		41:	1,455,781	264—	14:	1,455,832		166:	1,456,179			1,456,348
																	1,456,378

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbaticchio, Albert, Latrobe, Pa. Single-match dispenser. 1,457,050; May 29.

Abbe, George C., Lansdowne, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Coupling for equalizing apparatus for locomotives. 1,457,132; May 29.

Acito, Joseph, and P. Timen, assignors to Stap Co., New York, N. Y. Clasp. 1,457,133; May 29.

Adler, Bruno, Dresden, Germany. Spray carburetor for internal-combustion engines. 1,457,134; May 29.

Aktiebolaget Ljungströms Angturbin. (See Broberg, Isidor, assignor.)

Alexander, John R., Memphis, Tenn. System for distributing packages. 1,457,204; May 29.

Algoma Steel Corporation, Limited. (See Stenbol, Carl, assignor.)

Allis-Chalmers Manufacturing Company. (See Lieber, William H., assignor.)

Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)

Alspaugh, James S., Portsmouth, Ohio. Gear-shifting mechanism. 1,456,496; May 29.

American Arch Company. (See Denney, Guy C., assignor.)

American Arch Company. (See Parish, Le Grand, assignor.)

American Concrete Tie Corporation. (See Dickey, William T., assignor.)

American Foundry & Construction Company. (See Mitchell, Harbour, assignor.)

American Manganese Steel Company. (See Nichols, Wesley G., assignor.)

American Multigraph Company. (See Gammeter, Harry C., assignor.)

American Optical Company. (See Degrenier, Octave, assignor.)

American Optical Company. (See Dey, Gilbert S., assignor.)

American Radiator Company. (See Langworthy, Edward P., assignor.)

American Sales Book Company Limited. (See Hagemann, Louis F., assignor.)

American Telephone and Telegraph Company. (See Hamilton, Baxter P., assignor.)

American Telephone and Telegraph Company. (See Hudson, Earl A., assignor.)

Ancker, Alfred K., and R. F. Morton, Denver, Colo. Fly swatter. 1,456,753; May 29.

Anderson, James B., assignor to Pumpless Blow Torch Company, Pittsburgh, Pa. Blowtorch. 1,456,718; May 29.

Anderson, James B., Shaler Township, Allegheny County, assignor to Peoples Natural Gas Company, Pittsburgh, Pa. Gas burner. 1,456,754; May 29.

Anderson, Oscar, East Gloucester, Mass. Holder for canvas stretcher frames. 1,456,861; May 29.

Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric discharge device. 1,456,528; May 29.

Arnstein, Karl, Friedrichshafen, Germany. Skeleton frame construction for airships and the like. 1,456,497; May 29.

Atkinson, George T. (See Ross, M. J., and Atkinson.)

Atlas Press Company. (See Collins, James G., assignor.)

Auerbach, Zemach, New York, N. Y. Foldable card. 1,457,135; May 29.

Auerbach, Zemach, New York, N. Y. Filing rack. 1,457,136; May 29.

Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Elevator-control mechanism for envelope-making machines. 1,456,665; May 29.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Joint for articles of ceramic and similar materials and producing same. 1,456,960; May 29.

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Combination organ stop action. 1,456,612; May 29.

Austin Organ Company, The. (See Austin, John T., assignor.)

Auto Betterment Corporation. (See Hartwell, Albert E., assignor.)

Auto Devices and Development Company, The. (See Rasmussen, Harry T., assignor.)

Bachle, Andrew, Detroit, Mich. Vehicle window. 1,456,961; May 29.

Baker, Andrew S., Gilroy, Calif. Toy horse. 1,457,205; May 29.

Baker, Coston S., Chicago, Ill. Spare-tire container. 1,456,962; May 29.

Baker, William H., Montreal, Quebec, Canada. Fusible link. 1,456,686; May 29.

Baldwin Locomotive Works, The. (See Abbe, George C., assignor.)

Balsley, Eugene A. (See Fey, Frank E., assignor.)

Barbey, Henri, Schiltigheim, France. Machine for cutting up fruit and vegetables of all kinds, especially potatoes. 1,457,137; May 29.

Barron, Andrew J., and H. E. Crow, Cincinnati, Ohio, assignors to The Cincinnati Horse Shoe & Iron Company. Platform-spring suspension for automobiles. 1,457,138; May 29.

Barry, James J., Brooklyn, N. Y. Fish scaler. 1,456,666; May 29.

Bartels, Theodore B., San Francisco, Calif. Sample case. 1,456,613; May 29.

Bartholomew, Frank J. (See Hechenbleikner, I., and Bartholomew.)

Bassick Manufacturing Company, The. (See Cummins, Norman W., assignor.)

Batinovich, Joe G. (See Gross, Anton F., assignor.)

Batts, John T., Grand Rapids, Mich. Endless-carrier garment-supporting structure. 1,456,963; May 29.

Beatty, William G., Fergus, Ontario, Canada. Wringer. 1,456,529; May 29.

Beaumont, R. H., Company. (See Hale, William E., assignor.)

Becker, Walter H., Bruneau, Idaho. Individual recording device for shipping purposes. 1,456,583; May 29.

Beecken, Charles, New York, N. Y. Rope clamp. 1,457,051; May 29.

Behlen, George A., assignor of one-half to C. C. Rush, Greenville, S. C. Automatic record-transferring mechanism for phonographs. 1,456,614; May 29.

Belcher, Donald, Boston, and F. A. Eustis, Milton, Mass., assignors of one-half to C. P. Perin, New York, N. Y., and one-half to said Eustis. Purifying solutions of iron and recovering metals from such solutions. 1,456,615; May 29.

Bell, Asa L., and T. E. Raines, Shreveport, La. Fishing tool. 1,457,139; May 29.

Bell, Dillwyn M., Chicago, Ill. Key lock. 1,456,584; May 29.

Bell, Louis, West Newton, assignor to E. N. Goding, trustee, Newton, Mass. Headlight lens. 1,456,585; May 29.

Benedict, Stanley R. (See Bock, J. C., and Benedict.)

Benjamin, Jack, New Kensington, Pa. License-plate holder, tail light, and parking light. 1,457,206; May 29.

Benson, Andrew, Sterling, Ill. Disk wheel. 1,456,965; May 29.

Benson, Andrew, Sterling, Ill. Resilient tire. 1,456,966; May 29.

Benson, Bradley L. (See Winks, John O., assignor.)

Benson, Edwin P., New York, N. Y. Stub binding and envelope for check books. 1,456,616; May 29.

Bergeon, Paul, Grenoble, France. Electrical heating apparatus. 1,456,755; May 29.

Bergström, Jonah E., Christiania, Norway, assignor to G. Stable, Stockholm, Sweden. Milling machine. 1,456,756; May 29.

Berkson, Harry, Chicago, Ill. Reversible necktie. 1,456,757; May 29.

Bernat, Adolph and I., Kansas City, Mo. Arch support. 1,456,758; May 29.

Bernat, Isaac. (See Bernat, Adolph and I.)

Berry, George W., Wakefield, assignor to Berry Hinge Limited, London, England. Production of hinges and other like articulated articles. 1,456,862; May 29.

Berry Hinge Limited. (See Berry, George W., assignor.)

Berry, Howard, Welwyn, England. Manufacture of artificial stone, cement, or the like. 1,456,667; May 29.

Besson, Frank S., Washington, D. C. Testing bituminous paving mixtures. 1,457,015; May 29.

Biczak, Walter, assignor of one-half to C. Frederick, Hamilton, Ontario, Canada. Keyless lock. 1,456,530; May 29.

Bielitz, Charles C., Brooklyn, N. Y. Signal for automobiles. 1,456,967; May 29.
Billings, Josiah Q., Hammond, La. Tractor attachment. 1,456,668; May 29.
Binns, Charles F., Alfred, N. Y. Brick or tile for furnace construction. 1,456,498; May 29.
Birch, Ezekial B., Pittsburgh, Pa. System of electrical distribution. 1,457,052; May 29.
Blatter, John W. (See Mitchell, S. J., Gabbert, and Blatter.)
Blauhorn, Emanuel, Vienna, Austria. Injector. 1,457,140; May 29.
Bloch, Jacob, et al. (See Wagner, Albert G., assignor.)
Blong, Thomas J., St. Louis, Mo. Electro-heat-radiating device for water-heating systems. 1,456,863; May 29.
Blood, Charles W. H., Winthrop, and C. G. Osteman, assignors to S. A. Woods Machine Company, Boston, Mass. Side-head construction for matchers and the like. 1,456,864; May 29.
Bock, Joseph C., Brooklyn, and S. R. Benedict, New York, N. Y. Combined colorimeter nephelometer. 1,456,964; May 29.
Bockover, Walter L., and J. W. McNamara, Tipton, Ind. Mat. 1,457,141; May 29.
Boggess, James H., assignor to Longdin-Brugger Company, Fond du Lac, Wis. Curtain-carrying attachment for vehicles. 1,456,669; May 29.
Böhle, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Press for manufacturing sheet metal and plates with turned-up outer edges. 1,456,586; May 29.
Bolger, Robert S., assignor to International Motor Company, New York, N. Y. Extension ladder. 1,457,100; May 29.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,456,531; May 29.
Boone, Albert, Sawtelle, Calif. Auxiliary air supply. 1,457,207; May 29.
Boosted, Henry J., Kenosha, Wis. Tire pump. 1,456,719; May 29.
Booth, Sheldon M., Chicago, Ill. Means to withdraw surface water from bathing beaches and resorts. 1,456,750; May 29.
Borton, Frederick W., Miami, Fla. Electric soldering iron. 1,456,760; May 29.
Boswell, Fletcher O., Philadelphia, Pa. Vehicle wheel. 1,457,142; May 29.
Bowles, Charles E., Pulaski, Va. Spittoon and waste flush. 1,457,053; May 29.
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electric furnaces. 1,456,865; May 29.
Bradbury, Albert E. (See Mather, Allan G., assignor.)
Bradley, Francis, and H. L. Frevert, Philadelphia, Pa. Armor plate and making same. 1,457,101; May 29.
Bradley, Francis, and H. L. Frevert, Philadelphia, Pa. Armor plate and making same. 1,457,102; May 29.
Bradley, Francis, and H. L. Frevert, Philadelphia, Pa. Armor plate and making same. 1,457,103; May 29.
Branstool, William L., Chicago, Ill. Demountable rim for wheels. 1,457,016; May 29.
Bratt, Barnadus P., Baker, Oreg. Loading and unloading apparatus. 1,457,054; May 29.
Braun, William F. H., Philadelphia, Pa. Meat holder. 1,456,866; May 29.
Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Self-opening die head. 1,456,720; May 29.
Brennan, James F. (See Chapman, F. J., and Brennan.)
Bretan, Benni, et al. (See Zweig, H., and Schneiderman, assignors.)
Brewington, Philip J., Temple, Tex. Float ball. 1,457,055; May 29.
Brillo Manufacturing Co. (See Loeb, Milton B., assignor.)
Brimson, James H., assignor to Brimson Transmission Company, Saginaw, Mich. Variable-speed device. Re15,614; May 29.
Brimson Transmission Company. (See Brimson, James H., assignor.)
Bristol, John I. D., et al. (See Welch, Thomas H., assignor.)
Broberg, Isidor, Skarsatra Lidingon, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Balancing device between two coupled carriages for effecting desired wheel pressure. 1,456,587; May 29.
Brogden, Ernest M., assignor to Brogdex Company, Winter Haven, Fla. Apparatus for the sizing and distribution of fruit. 1,457,143; May 29.
Brogdex Company. (See Brogden, Ernest M., assignor.)
Bronson, Fred L., Wichita Falls, Tex. Fender brace for automobiles, carriages, and the like. 1,457,144; May 29.
Brown, Eric F., Buxton, Iowa. Mouth washbasin attachment. 1,456,841; May 29.
Brown, Fay C., Iowa City, Iowa. Selenium crystals and preparing the same. 1,456,532; May 29.
Brown, Gregory, and A. Turner, assignors to Norton Company, Worcester, Mass. Machine-table-reversing mechanism. 1,456,968; May 29.
Brown, Harvey, assignor of one-half to A. H. Schaefer, Buffalo, N. Y. Keyhole guard. 1,457,017; May 29.
Brown, Mary M., Elberton, Ga. Attachment for music sheets. 1,456,670; May 29.
Brown, Oliver W., and C. O. Henke, Bloomington, Ind. Manufacture of aromatic amino compounds. 1,456,969; May 29.
Bruce Macbeth Engine Company, The. (See Simler, James B., assignor.)
Buchanan, Stephen L., and F. J. Lytton, Coeburn, Va. Jack prop. 1,457,145; May 29.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckwalter, Jacob S., Philadelphia, assignor of one-half to L. H. Shank, Paradise, Pa. Fruit-jar holder. 1,456,671; May 29.
Burdick, Paul H., Geneva, Ill. Typewriting machine. 1,456,533; May 29.
Burgess, Harry A., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphy. 1,456,534; May 29.
Burroughs Adding Machine Company. (See Rinsche, Frank C., assignor.)
Busch, Louis W., Toledo, Ohio. Fork. 1,456,913; May 29.
Butterman, Samuel, Chicago, Ill., and C. K. Cooperrider, Albuquerque, N. Mex., dedicated, by mesne assignments, to the People of the United States for their free use and enjoyment. Manufacturing waterproof adhesives. 1,456,842; May 29.
Bylund, Eric, Winnipeg, Manitoba, Canada. Hose coupling. 1,456,761; May 29.
Caldwell, Benjamin F., Pomona, Calif. Floor heater. 1,457,056; May 29.
Caldwell, John A., Vancouver, British Columbia, Canada. Compass ellipsograph. 1,456,970; May 29.
Canavan, Matthew J., Dunmore, Pa. Automatic headlight turner. 1,457,146; May 29.
Canton, Rolland J., Lynn, Mass. Bottle-capping and wire-removing machine. 1,456,617; May 29.
Caplan, Nathen K., Detroit, Mich. Draft preventer. 1,456,971; May 29.
Carbide and Carbon Chemicals Corporation. (See Curme, G. O., jr., and Young, assignors.)
Carbide and Carbon Chemicals Corporation. (See Eldred, Byron E., assignor.)
Carbide & Carbon Chemicals Corporation. (See Young, Charles O., assignor.)
Carley, William O., Walla Walla, Wash. Pavement glide. 1,456,881; May 29.
Carlsen, Carl E., et al. (See Fisher, Charles, assignor.)
Carlson, Gustav W., assignor to The Torhensen Axle Company, Cleveland, Ohio. Lubrication of automotive vehicle knuckles. 1,456,618; May 29.
Carlson, Gustav W., assignor to The Torhensen Axle Company, Cleveland, Ohio. Lubrication of automotive vehicle knuckles. 1,456,619; May 29.
Carr, Edward G., Milwaukee, Wis. Subgrade scraper. Re15,615; May 29.
Carr Fastener Company. (See Hubbell, Benjamin F., assignor.)
Carson, Alexander A., Braintree, Mass. Outlet valve for water-closet tanks. 1,457,018; May 29.
Carter, George J., Bromborough, and L. G. McFarlane, Liverpool, England. Internal-combustion engine. 1,457,019; May 29.
Cartwright Manufacturing Company, The. (See Cartwright, Myles H., assignor.)
Cartwright Myles H., assignor to The Cartwright Manufacturing Company, Toledo, Ohio. Toothbrush. 1,456,535; May 29.
Cary, George W., Greenfield, Mass. Wrench. 1,456,620; May 29.
Cass, Freeman, Brooklyn, N. Y. Thread guide for textile machines. 1,457,208; May 29.
Central Electric Tool Company. (See Hampton, George E., assignor.)
Cervelli, Blanche, San Francisco, Calif. Reducing garment. 1,457,147; May 29.
Chadwick, John W., Kansas City, Mo. Portable gas meter. 1,456,621; May 29.
Chambers, John A., assignor of one-half to J. A. Clark, Newburg, Mo. Pipe. 1,456,762; May 29.
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Chanler, Gaston L., Short Hills, N. J., assignor to Pathe Exchange, Inc., New York, N. Y. Method and apparatus for producing distorted images. 1,457,209; May 29.
Chapman, Frank J., and J. F. Brennan, Paterson, N. J. Strip marking and measuring machine. 1,456,763; May 29.
Chapman, John D., Richwood, W. Va. Machine for spraying leather. 1,456,783; May 29.
Chase Companies Inc. (See Gleason, Henry M., assignor.)
Chemical Construction Company. (See Hechenbleikner, I., and Bartholomew, assignors.)
Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
Chemische Fabrik Griesheim-Elektron. (See Laska, A. L., and Zitscher, assignors.)
Chester Machine Co. (See Augustine, Addison E., assignor.)
Chilton, Henry J., Chicago, Ill. Bag fitting. 1,456,721; May 29.
Christensen, Niels C., Salt Lake City, Utah, assignor to The Consolidated Mining and Smelting Company of Canada, Limited, Montreal, Canada. Treating ores containing galena. 1,456,784; May 29.

Christensen, Knut, Benedict, N. Dak. Road machine. 1,456,882; May 29.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing fuel pump. 1,456,972; May 29.
Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
Cincinnati Horse Shoe & Iron Company, The. (See Barron, A. J., and Crow, assignors.)
Cioffi, Paul P. (See Knoop, W. A., and Cioffi.)
Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,456,537; May 29.
Clark, Edgar H., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,456,536; May 29.
Clark, James A. (See Chambers, John A., assignor.)
Clark, Lawrence E., Des Moines, Iowa. Insole for shoes or the like. 1,456,843; May 29.
Cleveland Folding Machine Company, The, et al. (See Thompson, R. J., and Dalton, assignors.)
Cleveland Metal Products Company, The. (See Resek, Marc, assignor.)
Cobb, Charles L., et al. (See Neil, Joseph B., assignor.)
Cole, Arthur D. (See Geiger, David F., assignor.)
Collins, James G., assignor to Atlas Press Company, Kalamazoo, Mich. Mandrel and straightening press. 1,457,020; May 29.
Collman, Harry, et al. (See Collman, Maurice, assignor.)
Collman, Maurice, assignor of one-sixth to H. Collman, Akron, one-sixth to E. P. Rogers, and one-half to The Investors Securities Company, Denver, Colo. Liquid and gaseous fuel burner. 1,456,785; May 29.
Commonwealth Steel Company. (See Ingersoll, Howard L., assignor.)
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Connersville Blower Co., The. (See Houghton, Carl R., assignor.)
Connor, Edwin J., and A. R. Ralston, Omaha, Nebr. Lifting tongs. 1,457,104; May 29.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for the receipt of wireless impulses. 1,456,867; May 29.
Consolidated Mining and Smelting Company of Canada, Limited. (See Christensen, Niels C., assignor.)
Consolidated Mining & Smelting Company of Canada, Limited. (See Hannay, William H., assignor.)
Coombs, James A., Hampstead, London, England. System for the treatment of sewage and the like. 1,456,914; May 29.
Cooperrider, Charles K. (See Butterman, S., and Cooperrider.)
Cope, George W., Oil City, La. Boiler-feed-water system. 1,456,722; May 29.
Corbin, Charles B., Grand Rapids, Mich. Fur-pelt stretcher. 1,456,764; May 29.
Cordino, Dominick, Plymouth, Mass. Making metal castings. 1,456,868; May 29.
Cordino, Dominick, Plymouth, Mass. Metal casting and making metal castings. 1,456,869; May 29.
Costmeter Company. (See Quigley, John T., assignor.)
Cottakis, Tassos M. (See Metropole, T. D., and Cottakis.)
Courson, William M., Traverse City, Mich. Shoe-heel stiffener. 1,456,915; May 29.
Crabbe, Robert J., Weston, W. Va. Well plug. 1,457,148; May 29.
Craft, Walter D. (See Sorensen, F. F., and Craft.)
Crandall, Irving B., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic apparatus. 1,456,538; May 28.
Crane, William E., Oakland, Md. Apparatus for treating soil. 1,457,210; May 29.
Crane, William M., Company. (See O'Dowd, Henry W., assignor.)
Crause, Peter, Hartford, Conn. Necktie-knot-forming device. 1,456,622; May 29.
Cresco Creamery Supply Co. (See Goldberger, Morris, assignor.)
Crites, Virgil C., assignor to F. C. Mason, Los Angeles, Calif. Receiver for telephones. 1,457,211; May 29.
Crow, Howard E. (See Barron, A. J., and Crow.)
Crown Cork and Seal Company of Baltimore City, The. (See Engler, William B., assignor.)
Cummins, Norman W., Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,456,973; May 29.
Cunningham, Harry D., Brighton, England. Preparing aluminum or its alloys for electroplating. 1,457,149; May 29.
Cupp, Frank L., Chicago, Ill. Fan. 1,456,765; May 29.
Curme, George O., jr., Clendenin, W. Va., and C. O. Young, Elmhurst, N. Y., assignors to Carbide and Carbon Chemicals Corporation. Making chlorhydrins. 1,456,916; May 29.
Curtis, Horace K., et al. (See Welch, Thomas H., assignor.)
Dahlberg, C. F. (See Munroe, Treadway B., assignor.)
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Governor for steam turbines. 1,457,212; May 29.
Dalton, Edward J., Davenport, Iowa. Carrier. 1,457,213; May 29.
Dalton, Raymond S. (See Thompson, R. J., and Dalton.)
Damm, John P., Techny, Ill. Carrier-table attachment. 1,456,623; May 23.
Daniels, George, St. Louis, Mo. Signal. 1,457,057; May 29.
Danziger, Adolphe, et al. (See Dusseau, Maurice G., assignor.)
Dauteuil, Fernand. (See Kree, P. M., and Dauteuil.)
Davis, Donald C., Buffalo, N. Y. Machine for testing hardness of materials. 1,457,214; May 29.
Davis, George W., Gibson City, Ill. Corn feeding and debutting machine. 1,456,624; May 29.
Davis, Harold A., and P. S. Newcomer, Fostoria, Ohio. Elevator hoist. 1,457,021; May 29.
Davoplane Bed Company. (See Freedman, Hyman and N. M., assignors.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Machine gun. 1,456,625; May 29.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Machine gun. 1,456,626; May 29.
Dayton, James S., Cumberland, Md. Rail-straightening press. 1,457,215; May 29.
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
De Bie, Naomi I., West Medford, Mass. Poultry-plucking device. 1,456,844; May 29.
Deeks, Hugh A., Toronto, Ontario, Canada. Gasoline filter. 1,456,883; May 29.
Deere & Company. (See Paul, Wesley A., assignor.)
Deere & Company. (See White, Charles E., assignor.)
De Grave, Michael J., Chicago, Ill. Clamping device. 1,457,150; May 29.
Degrenier, Octave, assignor to American Optical Company, Southbridge, Mass. Cutter. 1,456,672; May 29.
De La Mare, Thomas, Tooele, Utah. Concrete mold or form. 1,456,539; May 29.
De Laval Separator Company, The. (See Hapgood, C. H., and Mayne, assignors.)
Delbridge, Edward J., Hatch, Idaho. Hitching and tethering device. 1,456,627; May 29.
De Luca, Frank, Bowdens, N. C. Pen or pencil attachment. 1,456,786; May 29.
Denney, Guy C., Hinsdale, Ill., assignor to American Arch Company. Fire-box-arch construction. 1,456,628; May 29.
Derby, John H., New York, N. Y., assignor to General Fire Extinguisher Company, Providence, R. I. Quick-opening valve. 1,456,723; May 29.
Dey, Gilbert S., assignor to American Optical Company, Southbridge, Mass. Blocking machine. 1,456,673; May 29.
Dhé, Paul, Paris, France. Molding machine. 1,457,216; May 29.
Di Bella, Frank, New York, N. Y. Door-lock keeper. 1,456,917; May 29.
Dickey, William T., assignor to American Concrete Tie Corporation, Portsmouth, Va. Concrete tie and rail clamp. 1,457,151; May 29.
Dilg, Charles H. J., New York, N. Y. Watch-chain holder. 1,457,105; May 29.
Disch, Joseph, and J. G. Frese, St. Louis, Mo. Adjustable step for automobile running boards. 1,457,152; May 29.
Ditman, Norman E., New York, N. Y. Regenerated cellulose material and making same. 1,456,540; May 29.
Diesk, John, Berwyn, assignor to U. S. Ball Bearing Mfg. Company, Chicago, Ill. Machine for filling ball retainers. 1,456,787; May 29.
Dobschutz, Jehu B., assignor of one-half to W. P. Hill, St. Louis, Mo. Hairpin. 1,456,541; May 29.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Shoe-sewing machine. 1,457,022; May 29.
Doherty Research Company. (See Fisher, James P., assignor.)
Doherty Research Company. (See Nutting, P. J., and Hayward, assignors.)
Donnelly, Bernard P., Holland, Mich. Curtain-light mounting. 1,456,724; May 29.
Doremire, John S., Chalmers, Ind. Ditching machine. 1,456,588; May 29.
Dorey, George B., Montreal, Quebec, Canada, assignor to W. H. Miner, Chazy, N. Y. Friction draft rigging. 1,456,974; May 29.
Dostal, George A., assignor to Pictorial Soap Manufacturing Corporation, New York, N. Y. Apparatus for applying paraffin to soap cakes. 1,457,217; May 29.
Dotsch, Raymond F. (See Roberts, E. O., and Dotsch.)
Dudley, Benjamin B., Visalia, Calif. Folding tent. 1,456,918; May 29.
Dunbar, Price. (See Hicks, J. N., Elliott, and Dunbar.)
Du Pont, Alfred I., Wilmington, Del., and H. R. Harding, Baltimore, Md., assignor to The Harding Peeling Machine Company, Wilmington, Del. Method of and apparatus for automatically cleaning, scalding, and peeling fruit. 1,457,218; May 29.
Du Pont, E. I., de Nemours & Company. (See Kessler, J. M., and Sease, assignors.)
Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
Durbin, William N., Anderson, Ind. Tin-plate branning and cleaning machine. 1,456,629; May 29.

Dusseau, Maurice G., assignor of one-twentieth to A. Danziger, Los Angeles, Calif., and nineteen-twentieths to Positive Traction Motors Corporation. Universal joint. 1,457,219; May 29.
Eaton, Arthur L., and H. F. Vickers, Los Angeles, Calif.; said Vickers assignor to said Eaton. Vehicle body. 1,456,630; May 29.
Eberhardt, Walter. (See Herschede, W. J., and Eberhardt.)
Ebert, Harry, Frederick, Md. Power plant. 1,456,919; May 29.
Ebner, Albert, Stuttgart, Germany. Automatic stop mechanism for talking machines. 1,456,589; May 29.
Eccles, George H., Seattle, Wash. Ice-cream cabinet. 1,456,920; May 29.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Edison, Thomas A., Llewellyn Park, West Orange, assignor to New Jersey Patent Company, West Orange. Stylus mounting. 1,456,687; May 29.
Egler, Nicolas F., Chicago, Ill., assignor, by mesne assignments, to The Union Trust Company, trustee, Cleveland, Ohio. Billet-heating furnace. 1,456,788; May 29.
Ehrhart, Raymond N., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser apparatus. 1,456,871; May 29.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condensing apparatus. 1,456,870; May 29.
Eldred, Byron E., New York, N. Y., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation. Making halogenated products. 1,456,590; May 29.
Electric Controller & Manufacturing Company. (See Frost, Homer E., assignor.)
Elfreth, Harold D., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Weighing machine. 1,456,631; May 29.
Elliott, Charles A. (See Hicks, J. N., Elliott, and Dunbar.)
Elliott, Henry D., Tabor, N. C. Transplanting device. 1,456,921; May 29.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway brake head. 1,456,632; May 29.
Elliott, William S., Pittsburgh, Pa. Water heating and degasifying apparatus. 1,457,153; May 29.
Elsbach, Felix, et al. (See Wagner, Albert G., assignor.)
Engler, William B., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Packaging machine. 1,456,542; May 29.
Erb, George G. (See Lake, James, jr., assignor.)
Erickson, Charles, jr., Scotia, Calif. Device for babbitting connecting rods. 1,456,634; May 29.
Erskine, Thomas C., Columbus, Ohio. Smoker's accessory. 1,457,154; May 29.
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Estep, John B., Cleveland, Ohio. Pipe hanger. 1,457,106; May 29.
Eustis, Frederic A. (See Belcher, D., and Eustis.)
Eveleth, Clarence M., River Forest, Ill. Weather strip. 1,456,633; May 29.
Evertz, Knute, Bellingham, Wash. Two-speed, power stump puller. 1,456,872; May 29.
Excelsior Steel Furnace Company, The. (See Menk, Rudolph W., assignor.)
Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)
Eymon Crossing Company, The. (See Wilson, Byron E., assignor.)
Falkenberg, Ernest R., Chicago, Ill. Drapery-supporting device. 1,456,789; May 29.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Stüsser, Richard, assignor.)
Fehrenbach, Reinhold, Westville, assignor to Welsbach Company, Gloucester City, N. J. Heater and the like. 1,456,725; May 29.
Feist, Herman C., Rowena, Tex. Automatic signal-operating device for mail boxes. 1,456,543; May 29.
Fergus, Hollister G., Chicago, Ill. Crate for loading and unloading brick and like materials. 1,456,975; May 29.
Fergusson, Alan R., Buffalo, N. Y. Automobile hand signaling device. 1,457,023; May 29.
Ferrer, Maxime P., Brooklyn, N. Y. Pump. 1,457,220; May 29.
Fey, Frank E., Seattle, Wash., assignor of one-half to E. A. Balsley, Chicago, Ill. Container. 1,457,155; May 29.
Finch, Leon R. (See Finch, William G. and L. R.)
Finch, William G., Grand Rapids, and L. R. Finch, Ionia, Mich. Liquid-weighing device. 1,457,279; May 29.
Fishburn, Otto E., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Dry-plate clutch. 1,457,221; May 29.
Fisher, Charles, assignor of one-third to A. C. Grunwald and one-third to C. E. Carlsen, Chicago, Ill. Toilet paper cabinet. 1,456,790; May 29.
Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Demand-limiting device. 1,456,766; May 29.
Fitchet, Charles L., Lancaster, Pa. Combined globe holder and reflector. 1,457,068; May 29.
FitzGerald, John M., River Forest, Ill. Foundation pedestal or pier. 1,456,499; May 29.
Fleming, Roger N., Detroit, Mich. Coupled light dissolver for motion-picture machines. 1,456,544; May 29.
Flynn, John W., assignor of one-third to F. W. Kavanaugh and one-third to C. H. Kavanaugh, Waterford, N. Y. Automobile locking mechanism. 1,456,922; May 29.
Ford, Nicholas E. (See Slezak, Vincent, assignor.)
Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Adjustable mounting for terminal-bank panels. 1,456,500; May 29.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Aluminum dirt tray and reflector. 1,456,873; May 29.
Foster, Benjamin B., Renville, Minn. Attachment for can closures. 1,456,791; May 29.
Fowler, Ewell E., East Point, Ga., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,457,107; May 29.
Fowls, Andrew C., New Philadelphia, Ohio. Traffic signal or indicator. 1,456,923; May 29.
Fraley, Lawrence V., Chicago, Ill., assignor, by mesne assignments, to Standard Conveyor Company, North St. Paul, Minn. Take-up and adjustable roller. 1,456,726; May 29.
Franchi, Aldo M., assignor to Franchi Ringless Piston Corporation, New York, N. Y. Piston. 1,456,727; May 29.
Franchi Ringless Piston Corporation. (See Franchi, Aldo M., assignor.)
Frank, Ross E., Detroit, Mich. Bottle holder. 1,456,728; May 29.
Franke, William G., Detroit, Mich. Conduit outlet box. 1,456,792; May 29.
Franzen, Henry M., Los Angeles, Calif. Control for aircraft and the like. 1,457,024; May 29.
Fraser, William J., Toronto, Ontario, Canada. Protective tread for pneumatic tires. 1,456,729; May 29.
Frederick, Clifford. (See Biczak, Walter, assignor.)
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite plate. 1,456,884; May 29.
Freedman, Hyman and N. M., Chicago, Ill., assignors to Davoplane Bed Company. Davenport-bed structure. 1,456,635; May 29.
Freedman, Nathan M. (See Freedman, Hyman and N. M.)
Fregonara, Charles, Lyon, France. Safety device for gas welding plants. 1,457,059; May 29.
Frese, John G. (See Disch, J., and Frese.)
Freund, Jacob. (See Pancero, C., and Freund.)
Frevert, Harry L. (See Bradley, F., and Frevert.)
Frey, Harry, Du Bois, Nebr. Aeroplane. 1,457,222; May 29.
Fridolph, Anna S., Kansas City, Mo. Spring clasp. 1,456,793; May 29.
Fried. Krupp Aktiengesellschaft. (See Böhle, Karl, assignor.)
Fritts, James C., Scranton, Pa. Car-door lock. 1,456,611; May 29.
Frock, Oscar J., Wilmington, Del. Pressure-equalizing brake-applying device. 1,457,156; May 29.
Frost, Homer E., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Overload device. 1,457,109; May 29.
Frost, Jesse M. (See Souders, Herbert V., assignor.)
Fudge, Leroy M. (See Loveless, Fred H., assignor.)
Fuller, Charles A., Mount Vernon, N. Y. Equalizing vent valve for vapor heating systems. 1,456,688; May 29.
Fuller, Franz A., assignor to The J. E. Mergott Co., Newark, N. J. Frame making. 1,456,845; May 29.
Gabbert, Alfred D. (See Mitchell, S. J., Gabbert, and Blatter.)
Galbraith, Alexander, Dalmuir, Scotland. Pneumatic suspension for wheeled vehicles. 1,457,157; May 29.
Gallup, Luke L., Los Angeles, Calif. Educational device. 1,457,223; May 29.
Gammeter, Harry C., Cleveland Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Mechanism for feeding paper, cards, envelopes, etc. 1,457,158; May 29.
Gamwell, Arthur, Los Angeles, Calif. Thumb lock. 1,456,846; May 29.
Gardner, Frank, Dallas, Tex. Displacement pump. 1,456,885; May 29.
Gardonyi, Mike G., Cleveland, Ohio. Milk-bottle holder. 1,457,060; May 29.
Garrett, Cornelius. (See Wood, R., and Garrett.)
Gawne, Howard F., Euclid Village, Ohio. Internal-combustion engine. 1,456,976; May 29.
Gay, Rubert M., Hanover, N. J. Air separator. 1,457,110; May 29.
Gebrüder, Hardy. (See Scheuer, Alfred and H., assignors.)
Geib, Bernhard D., Cleveland, Ohio. Fountain brush. 1,456,977; May 29.
Geiger, David F., assignor of one-third to A. D. Cole, Minneapolis, Minn. Tractor. 1,456,730; May 29.
General Electric Company. (See Hoxie, Charles A., assignor.)
General Fire Extinguisher Company. (See Derby, John H., assignor.)
General Motors Corporation. (See Fishburn, Otto E., assignor.)

General Motors Research Corporation. (See Geyer, Harvey D., assignor.)
General Motors Research Corporation. (See Kettering, Charles F., assignor.
General Motors Research Corporation. (See Midgley, Thomas, jr., assignor.)
Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)
Gerfin, George P. (See Haynes, P. E., and Gerfin.)
Gerlinger, Carl F., Dallas, Oreg. Lumber carrier. 1,457,025; May 29.
Gesmundo, Giovanni, New York, N. Y. Alarm lock. 1,456,689; May 29.
Gestetner, David, assignor to D. Gestetner, Limited, London, England. Printing and duplicating. 1,456,794; May 29.
Gestetner, D., Limited. (See Gestetner, David, assignor.)
Geyer, Harvey D., assignor to General Motors Research Corporation, Dayton, Ohio. Engine indicator. 1,456,847; May 29.
Gibbs, Harry D., San Francisco, Calif., dedicated, by mesne assignments, to the People of the United States. Purifying anthracene press cake. 1,456,868; May 29.
Gilbert, Henry J., assignor to Saginaw Manufacturing Company, Saginaw, Mich. Metal pulley. 1,457,071; May 29.
Gilpin, Garth G., Riverside, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,456,731; May 29.
Gilpin, Garth G., Riverside, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,456,732; May 29.
Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Dump car. 1,456,978; May 29.
Girodo, Frederick P., New York, N. Y. Traction shoe for wheels. 1,457,242; May 29.
Gleason, Henry M., assignor to Chase Companies, Waterbury, Conn. Overflow mechanism for chutes. 1,456,545; May 29.
Gleason, Henry M., assignor to Chase Companies Inc., Waterbury, Conn. Sorting machine. 1,456,546; May 29.
Globe Ticket Company. (See Scott, Walter C., assignor.)
Glunt, Omer M., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Desk stand for hand telephones. 1,456,501; May 29.
Gober, Karl O., Oakland, Calif. Locking hinge. 1,456,886; May 29.
Goding, Edward N., trustee. (See Bell, Louis, assignor.)
Goldberger, Morris, assignor to Cresco Creamery Supply Co., Chicago, Ill. Filling and capping machine. 1,456,690; May 29.
Gonzalez, Ramon, Manila, P. I. Self-closing match box. 1,457,275; May 29.
Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Engine pre-heater. 1,456,980; May 29.
Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Internal-combustion-engine system. 1,456,979; May 29.
Good Inventions Co. (See Good, John, assignor.)
Goodale, Delia. (See Mable, William, assignor.)
Goodwin, William N., jr., assignor to Weston Electrical Instrument Company, Newark, N. J. Thermal ammeter. 1,456,591; May 29.
Gordon Machine Company. (See Lane, J. D., and Macnaughton, assignors.)
Gorin, Frederick P., Seattle, Wash. Finger-actuated key-operated machine. 1,457,111; May 11.
Gormley, Dennis A., and D. W. Reid, Atlantic City, N. J. Carburetor. 1,457,112; May 29.
Goss, William H., Hammonton, Calif. Rodent trap. 1,456,981; May 29.
Gottwald, Joseph, and A. Posler, Theresa, Wis. Animal trap. 1,456,733; May 29.
Grabowsky, Peter P., Providence, R. I. Bayonet wire cutter. 1,456,767; May 29.
Graham, Louis A., Chicago, Ill. Permutation illuminated sign. 1,456,982; May 29.
Grand Lake Company, The. (See McGrath, Charles B., assignor.)
Grasselli Chemical Company. (See Howard, Henry, assignor.)
Gray, Arthur D. (See Smith, A. E., and Gray.)
Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
Green Engineering Company. (See Strong, Arthur P., assignor.)
Greenwood, George E., San Francisco, assignor of one-third to H. M. Woolley, jr., Alameda, and one-third to F. N. Vedder, San Francisco, Calif. Adjustable form clamp. 1,456,849; May 29.
Griffin, Peter T., Van Zandt, Wash. Register for pool tables. 1,456,795; May 29.
Griffin, William G., Washington, D. C. Fuel economizer. 1,456,691; May 29.
Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Disk harrow. 1,457,280; May 29.
Gross, Anton F., assignor to J. G. Batinovich, Aberdeen, Wash. Clutch-spring-compressing device for Chevrolet automobiles. 1,456,796; May 29.
Grotnes, Charles G., Chicago, Ill. Expanding machine. 1,456,734; May 29.
Grove, Carl T., Great Falls, Mont. Plowdisk-sharpening machine. 1,457,159; May 29.
Gruber, Edward A., Chicago, Ill. Tailor's rule. 1,456,547; May 29.
Grunwald, Albert C., et al. (See Fisher, Charles, assignor.)
Guay, Frank, Whitefish, Mont. Rotary washing machine. 1,457,160; May 29.
Gunther, Emil B., Altadena, Calif. Floor surfacer. 1,457,224; May 29.
Gurnicki, Nykola. (See Semenoff, I. M., and Gurnicki.)
Gusdorf, Harold M., Indianapolis, Ind. Drive-belt material. 1,457,243; May 29.
Guseman, Tanny C., Houston, Tex. Stitching-machine guard. 1,456,548; May 29.
Guth, Edwin F., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting fixture. 1,457,061; May 29.
Guttly, Alphonse, Wisconsin Rapids, Wis. Wrench. 1,457,244; May 29.
H. S. B. W.-Cochrane Corporation. (See Elfreth, Harold D., assignor.)
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,768; May 29.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,769; May 29.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,770; May 29.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,771; May 29.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,772; May 29.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,456,773; May 29.
Haglund, Gustaf, Falun, Sweden. Automatically-acting lixiviation apparatus. 1,456,592; May 29.
Haire, Robert E., Paris, Ontario, Canada. Making plastic gypsum. 1,457,161; May 29.
Hale, Albert G., Fort Thomas, Ky. Vacuum bottle. 1,456,797; May 29.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Double-acting load brake. 1,457,162; May 29.
Haller, Julian B., Wytheville, Va. Tennis-court marker. 1,457,163; May 29.
Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling circuits. 1,456,549; May 29.
Hammond, Myron B. (See Taylor, H. H., and Hammond.)
Hampton, George E., assignor to Central Electric Tool Company, Pittsburgh, Pa. Electric drive mechanism. 1,456,550; May 29.
Hanak, B. B., Company. (See Wolff, Oscar M., assignor.)
Hannay, William H., Trail, British Columbia, assignor to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Extraction of lead from sulphide ores. 1,456,798; May 29.
Hannigan, Martin F. (See Powers, W. E., and Hannigan.)
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Soil-coring tool. 1,456,983; May 29.
Hanses, William A., assignor to Rand, McNally & Co., Chicago, Ill. Map case. 1,457,026; May 29.
Hanton, John T., Putnam, Conn. Twister ring. 1,457,027; May 29.
Hapgood, Cyrus H., Nutley, and G. F. Mayno, East Orange, N. J., assignors to The De Laval Separator Company, New York, N. Y. Refining vegetable oils. 1,457,072; May 29.
Harding, Hiram R. (See Du Pont, A. I., and Harding.)
Harding Peeling Machine Company, The. (See Du Pont, A. I., and Harding, assignors.)
Hardinge Brothers, Inc. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,456,799; May 29.
Hargrave, John M., Cincinnati, Ohio. Ratchet hand tool. 1,456,692; May 29.
Harley, Erskine P., Oklahoma, Okla. Seat. 1,457,245; May 29.
Harney, Thomas R., Short Hills, N. J., assignor to New Process Acid Company, Inc., New York, N. Y. Method and apparatus for manufacturing sulphuric acid. 1,457,164; May 29.
Harrer, Clarence, Port Washington, Wis. Automatic bottle closure. 1,456,774; May 29.

Hartwell, Albert E., assignor, by mesne assignments, to Auto Betterment Corporation, Newark, N. J. Carburetor for internal-combustion engines. 1,456,502; May 29.
Harvey, Edward C., Franklinton, La. Cutivator. 1,457,165; May 29.
Harvey, Kelly B., New York, N. Y. Auto table. 1,457,028; May 29.
Harvey, Mark P., Little River, Fla. Clip. 1,456,551; May 29.
Hauk, Charles J., jr., Yonkers, N. Y. Closure for tubes. 1,457,291; May 29.
Hause, Charles J., Asbury Park, N. J. Bag holder. 1,457,246; May 29.
Hayes, Joseph J., Elkhart, Ind. Towel and garment holder. 1,457,166; May 29.
Haynes, Pierre E., Buffalo, and G. P. Gerfin, Niagara Falls, N. Y., assignors to The Linde Air Products Company. Plaster and making the same. 1,456,924; May 29.
Hayward, Henry W. (See Nutting, P. J., and Hayward.)
Hazen, William. (See Ross, W. H., and Hazen.)
Hazen, William, and W. H. Ross, Washington, D. C. Preparing a concentrated fertilizer. 1,456,850; May 29.
Hazlett, Grant, and C. H. Mitchell, Binghamton, N. Y. Locking device. 1,457,025; May 29.
Headley, Frederick H., Northfield, assignor to Tan Sad Limited, Birmingham, England. Metallic chair, stool, seat, and the like. 1,456,800; May 29.
Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Method of and apparatus for concentrating liquids. 1,456,574; May 29.
Hechenbleikner, Ingenuin, and F. J. Bartholomew, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids and separated sludge acids. 1,457,030; May 29.
Heckmann, Harry A., assignor to The United States Machine Tool Company, Cincinnati, Ohio. Mechanism for making piston rings. 1,456,925; May 29.
Heidrich, Richard E. (See Smith, E. M., and Heidrich.)
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Translating apparatus. 1,456,503; May 29.
Henke, Clyde O. (See Brown, O. W., and Henke.)
Henning, Joseph, Newburgh, N. Y. Tool holder. 1,456,552; May 29.
Henriod, Charles E., Neuilly-sur-Seine, France. Progressive change-speed gear. 1,457,062; May 29.
Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Centering chuck. 1,457,247; May 29.
Hess-Bright Manufacturing Company, The. (See Hughes, William, assignor.)
Hess, Edward B., Brooklyn, and L. C. Myers, Freeport, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,457,167; May 29.
Hickman, Alexander B. (See Yale, Warren W., assignor.)
Hickok, W. O., Manufacturing Company, The, et al. (See Thompson, R. J., and Dalton, assignors.)
Hicks, Albert J., St. Louis, Mo. Cushion pneumatic tire. 1,456,775; May 29.
Hicks, John N., Tulsa, Okla., C. A. Elliott and P. Dunbar, Breckenridge, Tex.; said Dunbar assignor to said Hicks. Oil well. 1,456,803; May 29.
Higginson, Kingsley, Kingston-on-Thames, England. Cinematographic projection apparatus. 1,456,776; May 29.
Hill, William P. (See Dobschutz, John B., assignor.)
Hocke, Enrico. (See Macchioni, A., and Hocke.)
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoffman, Loran L., Milwaukee, Wis. Metallic signal for locomotives. 1,456,777; May 29.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Variable line spacer for typewriters. 1,456,778; May 29.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Variable line spacer for typewriters. 1,456,779; May 29.
Holland Furnace Company. (See Nystrom, Oscar P., assignor.)
Holle, Albert J., Rushford, Minn. Motor-vehicle tilting apparatus. 1,456,593; May 29.
Hope Construction and Refining Company, The. (See Reed, Charles C., assignor.)
Horman, Alfred E., New York, N. Y. Hammer. 1,457,168; May 29.
Hornke, William L., Evanston, Ill. Cutlery sharpener. 1,457,073; May 29.
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Swiveling support. 1,457,063; May 29.
Houghton, Carl R., assignor to The Connersville Blower Co., Connersville, Ind. Constant-flow governor. 1,457,074; May 29.
Hounsell, William R., Okmulgee, Okla. Gravity-correction device. 1,456,926; May 29.
Housekeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrode-supporting device. 1,456,604; May 29.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making sodium-silico fluoride. 1,456,594; May 29.
Howe, Charles C., Wyoming, R. I., and S. W. Libby, Watertown, assignors to Warren Soap Manufacturing Company, Boston, Mass. Antirust composition. 1,457,169; May 29.
Howie, Kenneth, Norristown, and W. O. Taylor, Limerick, assignors to Wildman Mfg. Co., Norristown, Pa. Detector and stop-motion means for knitting machines. 1,456,553; May 29.
Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Recording apparatus. 1,456,595; May 29.
Hoyle, Henry P., Durham, England. Screening apparatus. 1,456,801; May 29.
Hubbell, Benjamin F., assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,456,554; May 29.
Hubbell, Benjamin F., assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,456,555; May 29.
Hudson, Earl A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Duplex telegraph system. 1,456,556; May 29.
Hudson, Edward J., Glencoe, Ill. Motor for windshield wipers. 1,457,031; May 29.
Huff, Charles M., Albion, Wash. Sharpening machine. 1,457,064; May 29.
Hugentobler, Johann, St. Gallen, Switzerland. Thread-tension-measuring device. 1,456,596; May 29.
Hughes, William, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Forging. 1,456,597; May 29.
Huguenin, Albert, Zurich, Switzerland. Tidal-water-power plant. 1,457,170; May 29.
Hulbert, Clinton H., Chicago, Ill. Device for producing or reproducing sound. 1,457,075; May 29.
Hunt, George L., assignor to The George L. Hunt Manufacturing Company, Inc., Boscobel, Wis. Gear puller. 1,456,735; May 29.
Hunt, George L., Manufacturing Company. (See Hunt, George L., assignor.)
Hutchinson, George, Arcadia, assignor of one-half to T. H. Wright, Los Angeles, Calif. Making magnesium. 1,457,225; May 29.
Imhoff, Karl, Essen, Germany. Clearing plant with sludge decomposition. 1,456,557; May 29.
Ingersoll, Howard L., White Plains, N. Y., assignor to Commonwealth Steel Company, St. Louis, Mo. Cast-steel platform. 1,456,802; May 29.
Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingle, Arthur H. (See Ward, Wallace E., assignor.)
Ingraham, Leo L., assignor of one-fourth to E. Whipkey, Gooding, Idaho. Pump. 1,456,604; May 29.
International Motor Company. (See Bolger, Robert S., assignor.)
International Motor Company. (See Leipert, August H., assignor.)
International Patent Investment Corporation. (See Malluk, A. M., and Korée, assignors.)
Investors Securities Company, The, et al. (See Collman, Maurice, assignor.)
Isherwood, Arthur, assignor to Thomas Leyland & Co., Inc., Readville, Mass. Spreader cylinder and the like. 1,457,276; May 29.
Ives, Frederic E., Philadelphia, Pa. Photometer. 1,457,076; May 29.
Jackson, John F., assignor, by mesne assignments, to Kidwell Boiler Company, Milwaukee, Wis. Tube-bending machine. 1,456,598; May 29.
Jacobsen, Christian T., San Francisco, Calif. Towing dolly. 1,456,875; May 29.
Jahn, Konrad R., Copenhagen, Denmark. Line counter for typewriters. 1,457,248; May 29.
Janney, Thomas A., Garfield, Utah. Flotation machine. 1,457,077; May 29.
Janson, George W., Brooklyn, and L. H. Rovere, Richmond, assignors to The Western Union Telegraph Company, New York, N. Y. Electrical protector. 1,457,249; May 29.
Jenks, Charles D., and H. M. Perry, assignor, by mesne assignments, to S. L. Woods, Chicago, Ill. Antifriction bearing. 1,456,984; May 29.
Jensen, Rasmus N., et al., trustees. (See Jensen, Rasmus N., assignor.)
Jensen, Rasmus N., Sandy, Utah, assignor to M. Paggi and R. N. Jensen, trustees of Metalgyp Company, Salt Lake City, Utah. Plaster board. 1,456,599; May 29.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Turnsole-fitting machine. 1,465,600; May 29.
Johnson, Arthur T. M., Streatham, London, England. Picture film for combined cinematograph and phonograph production. 1,456,558; May 29.
Johnson, Charley, Wilmot, Ohio. Gasoline tank. 1,457,065; May 29.
Johnson, Emil L., and O. Lundsten, Attleboro, Mass. Buckle. 1,457,032; May 29.
Johnson, Francis E., jr., Orange, N. J., assignor to The M. W. Kellogg Company. Manhole for pipes and similar containers. 1,456,601; May 29.
Johnson, Frederick L., assignor to M. W. Johnson, Warren, R. I. Conduit end fitting. 1,457,171; May 29.
Johnson, Henry L., Dawson, Minn. Holder. 1,457,250; May 29.

Johnson, Mary W. (See Johnson, Frederick L., assignor.)
Johnston, William M. (See Mallory, J. W., and Johnston.)
Jonas, Jacob F., Bellevue, Ky. Shoe. 1,456,695; May 29.
Jones, Tolliver M., Birmingham, Ala. Linter-gin-rib mounting. 1,457,172; May 29.
Jorgensen, Clarence H. and P. J., assignors to Jorgensen Manufacturing Company, Waupaca, Wis. Priming device. 1,457,033; May 29.
Jorgensen Manufacturing Company. (See Jorgensen, Clarence H. and P. J., assignors.)
Jorgensen, Peter J. (See Jorgensen, Clarence H. and P. J.)
Josselyn, Winsor, Carmel, Calif. Cigarette holder. 1,457,251; May 29.
Judkins, John D., San Diego, Calif. Dish drainer. 1,456,803; May 29.
Julian d'Este Company. (See Webb, Edward, assignor.)
Kageyama, Hosaku, Los Angeles, Calif. Electrical direction indicator. 1,457,173; May 29.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater. 1,457,078; May 29.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Calling device. 1,456,602; May 29.
Kane, Michael F., Shaft, Pa. Illuminated-license-tag holder for vehicles. 1,456,736; May 29.
Kansas City Gasoline Company, The. (See Lasher, Henry M., assignor.)
Kato, Michael B., Duquesne, Pa. Rotary engine. 1,456,603; May 29.
Kaufman, David V., assignor of one-half to I. Schmertzler, New York, N. Y. Ink distributor. 1,457,252; May 29.
Kavanaugh, Charles H., et al. (See Flynn, John W., assignor.)
Kavanaugh, Frederick W., et al. (See Flynn, John W., assignor.)
Kawasaki, Utakichi, San Francisco, Calif. Printing press. 1,457,034; May 29.
Keith, George, and W. A. Whatmough, London, England. Means for controlling the supply of mixture to internal-combustion engines. 1,456,604; May 29.
Kellogg, M. W., Company, The. (See Johnson, Francis E., jr., assignor.)
Kell, Charles A., Elkhart, Ind. Reamer. 1,457,174; May 29.
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kelly, Arthur J. (See Nicholson, G. W., and Kelly.)
Kelly, John F., Elkins, W. Va. Floor and wall mop. 1,456,696; May 29.
Kempton, Williard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making tubes. 1,456,876; May 29.
Kendall, William G., Newark, N. J., assignor to H. Rigaud, New York, N. Y. Vanity case. 1,456,636; May 29.
Kendechy, Andrew, Cleveland, Ohio. Lock. 1,457,253; May 29.
Kennedy, Joseph E., New York, N. Y. Mixing machine. 1,456,877; May 29.
Kermode, James E., Vallejo, Calif. Combination running board, table, and container. 1,456,780; May 29.
Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-ester composition. 1,456,782; May 29.
Kessler, Johannes M., West Orange, and V. B. Sease, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering cellulose acetate from solutions thereof. 1,456,781; May 29.
Kestner, Frederick J., Cleveland, Ohio. Scaffold bracket. 1,457,066; May 29.
Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Binding element. 1,456,851; May 29.
Kidwell Boiler Company. (See Jackson, John F., assignor.)
Kidwell Boiler Company. (See Kidwell, Edgar, assignor.)
Kidwell, Edgar, assignor to Kidwell Boiler Company, Milwaukee, Wis. Boiler construction. 1,457,281; May 29.
Kidwell, Edgar, assignor to Kidwell Boiler Company, Milwaukee, Wis. Baffle for water-tube boilers. 1,457,282; May 29.
Kingsbury, Albert, Pittsburgh, Pa. Electrically-insulated bearing. 1,456,804; May 29.
Kitchen, Claire. (See Kitchen, Grover C. and C.)
Kitchen, Grover C. and C., Sonoma, Calif. Egg-turning means for incubators. 1,456,559; May 29.
Kitts, Isaac L. (See Kitts, Willard A., jr., assignor.)
Kitts, Willard A., jr., Mountain Lakes, N. J., assignor to I. L. Kitts, Fort Myer, Va. Blow-off valve. 1,456,697; May 29.
Kivlan, John L., Boston, Mass. Jar lifter. 1,456,698; May 29.
Kleist, John E., New Rochelle, N. Y. Nailing concrete. 1,456,985; May 29.
Knight, Stanley H., Chicago, Ill. Soda fountain. 1,457,067; May 29.
Knoop, William A., Brooklyn, and P. P. Cioffi, assignors to Western Electric Company Incorporated, New York, N. Y. Electric discharge device. 1,456,505; May 29.
Kohn, Milton M., New York, N. Y. Electrical heating device. 1,456,878; May 29.
Kolb, Otto H., Philadelphia, Pa. Filling device for batteries and the like. 1,457,079; May 29.
Konigslow, Otto, Manufacturing Company. (See Konigslow, Otto, sr., assignor.)
Konigslow, Otto, sr., assignor to Otto Konigslow Manufacturing Company, Cleveland, Ohio. Brake-band fitting. 1,456,605; May 29.
Konigslow, Otto, sr., assignor to Otto Konigslow Manufacturing Company, Cleveland, Ohio. Brake-band fitting. 1,456,606; May 29.
Koontz, Victor R., assignor to The Victor Tool Company, Waynesboro, Pa. Die head. 1,456,805; May 29.
Koot, Wilhelmus, Utrecht, Netherlands. Safety locking device. 1,456,852; May 29.
Korée, Jean U. (See Malluk, A. M., and Korée.)
Kotlik, Joseph E., Hamburg, N. Y. Roundabout. 1,457,035; May 29.
Kozisek, Jaroslav. (See Türk, O., and Kozisek.)
Kramer, Rudolph, Sheyenne, N. Dak. Air-circulating system. 1,456,699; May 29.
Kray, Elmer P., Los Angeles, Calif. Valve replacer. 1,457,175; May 29.
Kree, Paul M., New York, N. Y., and F. Dauteuil, Dumont, N. J. Automatic stop and start for phonographs. 1,457,036; May 29.
Kreutz, Vernon C., assignor of one-half to E. B. Wheat, Portland, Oreg. Apparatus for and process of automatically percolating a fresh quantity of coffee for each one drawn from an urn. 1,457,037; May 29.
Krombein, Henry, Oak Bank, Manitoba, Canada. Drive-wheel construction for tractors. 1,456,887; May 29.
Kuhn, Frank F., assignor to L. M. Ley, Minneapolis, Minn. Polishing composition. 1,457,080; May 29.
Kumpf, David M., Pekin, Ill. Writing pad. 1,456,927; May 29.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,456,637; May 29.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,456,638; May 29.
Lagler, Celestin I., Stockton, Calif. Flesh-cutting shears. 1,456,639; May 29.
Lake, James, jr., assignor to G. G. Erb, New York, N. Y. Electrical-connector forming tool. 1,456,928; May 29.
Lancette, César J. M., Paris, France. Monolithic building. 1,456,806; May 29.
Lane, John D., Boston, and J. Macnaughton, Brookline, assignors, by mesne assignments, to Gordan Machine Company, Boston, Mass. Machine for measuring and delivering loose merchandise. 1,457,038; May 29.
Langworthy, Edward P., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Mold-material-projecting machine. 1,457,113; May 29.
Lapham, Ralph E., Oakland, Calif. Centrifugal separating means. 1,456,737; May 29.
Larsen, Hans G., and W. C. Redfield, Chicago, Ill. Valve-refacing machine. 1,456,807; May 29.
Lasher, Henry M., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Refining hydrocarbon oils. 1,457,068; May 29.
Laska, August L., and A. Zitscher, Offenbach-on-the-Main, assignors to the Corporation Chemischefabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Azo dyestuffs and making same. 1,457,114; May 29.
Lathrop, Willard O., Cincinnati, Ohio. Bedspring structure. 1,456,738; May 29.
Layer, George. (See Schuck, C., jr., and Layer.)
Layne and Bowler Company. (See Noland, John D., assignor.)
Lee, John A., Coopersville, Mich. Can-feeding mechanism. 1,457,177; May 29.
Lee, John E., Milwaukee, Wis. Burglar alarm. 1,457,176; May 29.
Lehman, Edward G., Canton, Ohio. Fastening device. 1,457,039; May 29.
Lehman, Jay E., Canton, Ohio. Planer. 1,456,739; May 29.
Leipert, August H., assignor to International Motor Company, New York, N. Y. Assembling middle bearings for internal-combustion motors. 1,457,115; May 29.
Leisten, Nicholas, and C. Senn, Detroit, Mich. Gas generator for internal-combustion engines. 1,456,986; May 29.
Lester, Lewis R. (See Panalle, Anatole, assignor.)
Leveridge, Walter J., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube-electrode assembling jig. 1,456,506; May 29.
Levy, Lucien, Paris, France. Receiving system for electric waves. 1,457,069; May 29.
Lewis, Brayton S., assignor to The Stanley Works, New Britain, Conn. Grease cup. 1,456,888; May 29.
Ley, Lynda M. (See Kuhn, Frank F., assignor.)
Leyland, Thomas, & Co. (See Isherwood, Arthur, assignor.)
Libby, Stephen W. (See Howe, C. C., and Libby.)
Lieber, William H., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. 1,457,061; May 29.

Linde Air Products Company, The. (See Haynes, P. E., and Gerfin, assignors.)
Link, Manfred W., Kansas City, Mo. Front radius rod. 1,456,740; May 29.
Lion, Walter, Dresden, Germany. Antiskidding device for dual tires. 1,457,116; May 29.
Little, Earl W., Indianapolis, Ind., assignor to E. W. Little. Auxiliary spring for motor vehicles. 1,456,889; May 29.
Little, Edward W. (See Little, Earl W., assignor.)
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric resistance furnace. 1,456,890; May 29.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-furnace resistor. 1,456,891; May 29.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protected electrode for electric furnaces. 1,456,892; May 29.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-furnace wall construction. 1,456,893; May 29.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telescoping electrode protector. 1,456,894; May 29.
Locomobile Company, The. (See Rosner, Adolph, assignor.)
Loeb, Milton B., New York, N. Y., assignor to Brillo Manufacturing Co. Soap holder. 1,457,254; May 29.
London General Omnibus Company Limited. (See Shave, George J., assignor.)
London, Samuel and L. Weber, Newark, N. J. Auto creeper. 1,457,117; May 29.
Longdin-Brugger Company. (See Boggess, James H., assignor.)
Loveless, Fred H., Chicago, Ill., assignor of one-half to L. M. Fudge, Hammond, Ind. Sign. 1,457,255; May 29.
Lowe, George M., Bowen, Colo. Safety station for subterraneous passageways. 1,456,808; May 29.
Lowry, George A., Indianapolis, Ind., and T. K. Lowry, Chicago, Ill. Automobile exhaust lock. 1,456,640; May 29.
Lowry, Thomas K. (See Lowry, George A. and T. K.)
Lucas, George P., Jersey City, N. J. Hammer. 1,456,987; May 29.
Lucas, Owen D., assignor to M. L. Experimental Limited, Westminster, London, England. Shell fuse. 1,456,641; May 29.
Luce Cane Harvester Corporation. (See Luce, George D., assignor.)
Luce, George D., New Orleans, La., assignor to Luce Cane Harvester Corporation, New York, N. Y. Cane stripper. Re15,616; May 29.
Luhr, Charles W., assignor to New Jersey Patent Company, West Orange, N. J. Resilient gearing. 1,456,700; May 29.
Lundell, Alben E., New York, and T. van Amstel, Douglaston, assignors to Western Electric Company, Incorporated, New York, N. Y. Number-indicating system. 1,456,508; May 29.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Tandem allotting system. 1,456,507; May 29.
Lundquist, Hans, assignor to United States Specialty Corporation, Chicago, Ill. Liquid-level indicator. 1,456,701; May 29.
Lundsten, Olof. (See Johnson, E. L., and Lundsten.)
Lynch, Harry, Des Moines, Iowa. Attachment for pipe-threading machines. 1,456,853; May 29.
Lyon, Gustave F., Paris, France. Treating wood. 1,456,809; May 29.
Lytton, Frank J. (See Buchanan, S. L., and Lytton.)
M. L. Experimental Limited. (See Lucas, Owen D., assignor.)
McAllaster, George R., Rochester, N. Y. Folding bed. 1,456,988; May 29.
McArthur John, Detroit, Mich. Vehicle sash construction. 1,457,178; May 29.
McCloskey, Paul J., New Brunswick, N. J. Lever slot closure. 1,457,082; May 29.
McCowan, Emily, New York, N. Y. Doll. Des. 62,433; May 29.
McCulloch, Alexander, Govan, Saskatchewan, Canada. Garage door. 1,456,895; May 29.
McDonald, William R., Houston, Tex. Propeller. 1,456,896; May 29.
McFarlane, Lauchlan G. (See Carter, G. J., and McFarlane.)
McGhee, Thurman, and P. Woodhead, Hayward, Calif. Filling valve. 1,456,854; May 29.
McGinnis, John A., assignor to Wheeling Stamping Company, Wheeling, W. Va. Machine for the manufacture of collapsible metal tubes. 1,457,179; May 29.
McGrath, Charles B., assignor to The Grand Lake Company, Inc., Woodland, Me. Paper container. 1,456,897; May 29.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,457,118; May 29.
McGuckin, John J., Brooklyn, N. Y. Axle-bearing-repairing tool. 1,457,119; May 29.
McIntyre, Charles V., East Orange, N. J. Retort furnace. 1,457,083; May 29.
McKellar, John R., Oakland, Calif. Torch. 1,457,256; May 29.
McLaughlin, Philip A., Chester, Pa. Hair-bobbing device. 1,457,257; May 29.
McLaughlin, Wilson L., Decatur, Ill. Pulverizing apparatus. 1,457,084; May 29.
McManus, John A., Lynn, Mass. Casting machine. 1,457,040; May 29.
McMullin, Joseph B., assignor to Western Manufacturing Company, Oskaloosa, Iowa. Valve device for hose reels. 1,457,180; May 29.
McNamara, John W. (See Bockover, W. L., and McNamara.)
McNeil, William H., Hardy, Miss. Rail joint. 1,457,085; May 29.
Mable, William, assignor of one-half to D. Goodale, Fort Collins, Colo. Pneumatic drill. 1,457,181; May 29.
Macchioni, Achille, and E. Hocke, Genoa, Italy. Locomotive. 1,456,810; May 29.
Macnaughtan, James. (See Lane, J. D., and Macnaughtan.)
Madden, Charles L., Bay City, Mich. Spotlight. 1,457,120; May 29.
Magrath, George H., Whitinsville, Mass. Bobbin clutch. 1,457,226; May 29.
Maher, Michael, Bay City, Mich. Boiler-tube cutter. 1,457,258; May 29.
Mai, Alfred, Munich, Germany. Making arsenical solutions. 1,456,509; May 29.
Major, Adolphe D. (See Steffee, William H., assignor.)
Mallory, John W., and W. M. Johnston, Grand Saline, Tex. Clamp bolt. 1,457,182; May 29.
Mallory, Lester W., Junction City, Oreg. Vehicle. 1,456,989; May 29.
Malluk, Assad M., and J. U. Korée, assignors to International Patent Investment Corporation, New York, N. Y. Resilient bumper for motor vehicles. 1,457,259; May 29.
Mansfield, Alfred, Victoria, British Columbia, Canada. Fuel-saving device for domestic stoves and ranges. 1,456,898; May 29.
Marga, Ulderique A., Dieghem, Brussels, Belgium. Automatic firearm. 1,456,811; May 29.
Markland, Mrs. Louisa. (See Robinson, Marion, assignor.)
Mason, Frank C. (See Crites, Virgil C., assignor.)
Mason, George W., Lincoln, Nebr. Automobile direction signal. 1,457,260; May 29.
Mass, August G., Cincinnati, Ohio. Vehicle wheel. 1,456,642; May 29.
Mather, Allan G., assignor of one-half to A. E. Bradbury, Ottawa, Ontario, Canada. Oil burner. 1,456,899; May 29.
Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission circuits. 1,456,510; May 29.
Matheson, Howard W., assignor to Shawinigan Laboratories Limited, Montreal, Quebec, Canada. Making aldehyde ammonia. 1,456,702; May 29.
Mathewes, James C., Los Angeles, Calif. Coin counter. 1,457,261; May 29.
Maxwell, Frank R., jr., Dedham, Mass. Airplane. 1,456,643; May 29.
Mayberry, Harry A., McLeansboro, Ill. Automobile radiator cap. 1,457,070; May 29.
Mayno, George F. (See Hapgood, C. H., and Mayno.)
Measuregraph Company, The. (See Hosch, Greene C., assignor.)
Meckstroth, Louis W., Chicago, assignor to Woodstock Typewriter Company, Woodstock, Ill. Carrying and shipping case. 1,456,703; May 29.
Medved, Louis, Milwaukee, Wis. Clothesline reel. 1,456,704; May 29.
Melles, Jakob, Brieg, Germany. Building element. 1,456,812; May 29.
Meltzer, Edward, New York, N. Y. Hydrocarbon vaporizer and burner. 1,456,900; May 29.
Menk, Rudolph W., Joliet, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Air circulator and humidifier for radiators. 1,456,607; May 29.
Mergott, J. E., Co., The. (See Fuller, Franz A., assignor.)
Mershon, Ralph D., New York, N. Y. Tank or vessel for electrolytic apparatus and other purposes. 1,456,901; May 29.
Metropole, Tasso D., and T. M. Cottakis, New York, N. Y. Automatic typewriter. 1,456,560; May 29.
Meyer, Henry A., et al. (See Wagner, Albert G., assignor.)
Meyer, Vernon H., Cleveland, Ohio. Dial for electrical instruments. 1,456,644; May 29.
Michelsen, Hamilton, Miami, Fla. Shipping crate. 1,456,674; May 29.
Michelsen, Stephen T., Washington, D. C. Photographic-film-drying apparatus. 1,456,902; May 29.
Midgley, Thomas, jr., assignor, by mesne assignments, to General Motors Research Corporation, Dayton, Ohio. Joining metals. 1,456,855; May 29.
Miller, John, Calvin, N. Dak. Bundle carrier and shocker. 1,456,675; May 29.
Miner, William H. (See Dorey, George B., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Minnelli, Vincenzo, Pittston, Pa. Phonograph-amplifier mounting. 1,456,903; May 29.
Minton, John P., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter. 1,456,511; May 29.

Mitchell, Charles H. (See Hazlett, G., and Mitchell.)
Mitchell, Harbour, assignor to American Foundry & Construction Company, Pittsburgh, Pa. Neck or nozzle connection for pipe lines. 1,457,183; May 29.
Mitchell, Harlan M., San Francisco, Calif. Automatic pencil sharpener. 1,456,904; May 29.
Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Variable-action shock absorber. 1,456,856; May 29.
Mitchell, Leonidas J., Huntington, W. Va. Tractor. 1,456,905; May 29.
Mitchell Products Company. (See Mitchell, Harry R., assignor.)
Mitchell, Sylvester J., A. D. Gabbert, and J. W. Blatter, Grand Junction, Colo. Pruning ladder. 1,456,813; May 29.
Moen, Ole H., Inwood, Iowa. Animal trap. 1,456,929; May 29.
Moffitt, Mansfield M., San Antonio, Tex. Trap. 1,456,676; May 29.
Montgomery, Joseph, West New York, N. Y. Clasp. 1,456,990; May 29.
Moore, Robert A., Cleveland, Ohio. Apparatus for making abrasive belts. 1,456,561; May 29.
Moore, Zola B., Los Angeles, Calif. Undergarment. 1,456,814; May 29.
Morgan, Edmund C., New York, N. Y. Mining machine. 1,456,991; May 29.
Morris, Henry F., Collingswood, N. J. Sectional water grate. 1,456,521; May 29.
Morton, Benjamin W., Williston, Fla. Colter attachment for tractors. 1,456,819; May 29.
Morton, Benjamin W., Williston, Fla. Plow attachment for tractors. 1,456,815; May 29.
Morton, Benjamin W., Williston, Fla. Plow attachment for tractors. 1,456,817; May 29.
Morton, Benjamin W., Williston, Fla. Wheeled tractor. 1,456,816; May 29.
Morton, Benjamin W., Williston, Fla. Wheeled tractor. 1,456,818; May 29.
Morton, Robert F. (See Aucker, A. K., and Morton.)
Muchka, Josef, Vienna, Austria. Conveyance of highly-inflammable liquids. 1,456,820; May 29.
Mudge & Company. (See Vanatta, Jean K., assignor.)
Mudge, James D., deceased, Seattle, Wash.; N. S. Mudge, administratrix. Turbine or centrifugal vacuum pump device. 1,457,121; May 29.
Mudge, Nina S., administratrix. (See Mudge, James D.)
Müller, Eugen L., Berlin, Germany. Manufacture of air propellers. 1,456,512; May 29.
Munroe, Treadway B., assignor to C. F. Dahlberg, New Orleans, La. Felting machine. 1,456,608; May 29.
Munson, Sweney, Fowler, Colo. Adjustable ball bearing. 1,457,184; May 29.
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murphy, P. H., Company. (See Gilpin, Garth G., assignor.)
Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. 1,456,705; May 29.
Murphy, Walter P. (See Gilpin, Garth G., assignor.)
Murray, Roy, Jensen, Utah. Sheep protector. 1,456,706; May 29.
Myers, Lewis C. (See Hess, E. B., and Myers.)
National Refining Corporation, Inc. (See von Groeling, Albrecht, assignor.)
Neal, Henry, Yukon, Pa. Shot-firing device. 1,457,262; May 29.
Neddo, Richard, Norfolk, Va. Stationery cabinet. 1,456,562; May 29.
Neil, Joseph B., York, assignor of one-third to C. L. Cobb, Rock Hill, and one-third to J. C. Wilborn, York, S. C. Cotton picker. 1,456,645; May 29.
New Jersey Patent Company. (See Edison, Thomas A., assignor.)
New Jersey Patent Company. (See Luhr, Charles W., assignor.)
New Process Acid Company. (See Harney, Thomas R., assignor.)
Newcomer, Paul S. (See Davis, H. A., and Newcomer.)
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. 1,457,086; May 29.
Newlyn, Thomas J., El Paso, Tex. Face-powder box. Des. 62,434; May 29.
Newman, Thomas, assignor of one-half to V. B. Smith, Omaha, Nebr. Shovel attachment. 1,456,879; May 29.
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nichols, Clifford R., Dallas, Tex. Machine and process for manufacturing articles from plastic materials. 1,457,185; May 29.
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Railway crossing with renewable centers. 1,456,857; May 29.
Nicholson, George W., and A. J. Kelly, assignors to Safety First Auto Tail-Light Company, Indianapolis, Ind. Automobile signal. 1,457,263; May 29.
Noland, John D., assignor to Layne and Bowler Company, Memphis, Tenn. Centrifugal pump. 1,456,906; May 29.
Noriega, Alberto, New York, N. Y. Ore classifier. 1,456,563; May 29.
Norwalk Vault Company, The. (See Reming, Richard, assignor.)
Norton Company. (See Brown, G., and Turner, assignors.)
Noyes, George W., Billings, Mont. Film-guiding device. 1,456,821; May 29.
Nutting, Paul J., Waterton, N. Y., and H. W. Hayward, Mount Gilead, N. C., assignors to Doherty Research Company, New York, N. Y. Furnace. 1,456,992; May 29.
Nystrom, Oscar P., assignor to Holland Furnace Company, Holland, Mich. Furnace-grate shaker. 1,456,707; May 29.
O'Connell, Edgar E., Washington, D. C. Dough-mixing machine. 1,456,564; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft rigging. 1,456,993; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,456,994; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,456,995; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction bearing. 1,456,996; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction bearing. 1,456,997; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,456,998; May 29.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,456,999; May 29.
O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas range. 1,456,822; May 29.
O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas range. 1,456,823; May 29.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
Oldroyd, Cyrus S., Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn. Mining and quarrying machine. 1,456,930; May 29.
Oldroyd Manufacturing Company. (See Oldroyd, Cyrus S., assignor.)
Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)
Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Odometer. 1,456,513; May 29.
Olson, Adolph W., McIntosh, Minn. Fastening device for cables. 1,456,824; May 29.
Orear, Benjamin F., Minneapolis, Minn. Folding camp table and stool set. 1,457,041; May 29.
Orr, Joseph L., Lexington, N. C. Combined advertising device and twine holder. 1,456,825; May 29.
Osborn, Alden E., New York, N. Y. Piston. 1,456,708; May 29.
Osegovic, Eugene, Brooklyn, N. Y. Sea mine. 1,456,646; May 29.
Osteman, Carl G. (See Blood, C. W. H., and Osteman.)
Ostendorf, Peter, Berndorf, Austria. Bronze alloy and its production. 1,457,288; May 29.
Ostendorf, Peter, Berndorf, Austria. Copper and zinc alloy. 1,457,289; May 29.
Owen, Richard B., Washington, D. C. Storage-battery container. 1,456,565; May 29.
Paggi, Moses, et al., trustees. (See Jensen, Rasmus N., assignor.)
Panalle, Anatole, assignor of one-fourth to L. R. Lester, New Orleans, La. Bathing suit. 1,457,264; May 29.
Pancero, Charles, and J. Freund, Cincinnati, Ohio. Slaughterhouse construction. 1,456,709; May 29.
Pannell, Lucius A., Atlanta, Ga. Plowfoot adjuster. 1,456,647; May 29.
Parish, Le Grand, Mountain View, N. J., assignor to American Arch Company, New York, N. Y. Locomotive-fire-box structure. 1,456,710; May 29.
Park, William R., deceased, Taunton, Mass.; W. R. Park, jr., executor. Hydrocarbon burner. 1,457,000; May 29.
Park, William R., jr., executor. (See Park, William R.)
Parker, Lee H. (See Preble, J. J., and Parker.)
Parker, Luke E., Pe Ell, Wash. Logging hook and link. 1,456,931; May 29.
Parker, Robert H. G. (See Yeich, L. C., and Parker.)
Partridge, Thomas O., North Sydney, New South Wales, Australia. Apparatus for mixing dry materials. 1,456,858; May 29.
Patent Novelty Company. (See Reimer, George H., assignor.)
Pathe Exchange, Inc. (See Chanler, Gaston L., assignor.)
Paul, Lola V., administratrix. (See Paul, Wesley A.)
Paul, Wesley A., deceased, by L. V. Paul, administratrix, assignor to Deere & Company, Moline, Ill. Cultivator. 1,456,566; May 29.
Peahotzki, John J., Baltimore, Md. Corn mixer and silk remover. 1,456,826; May 29.
Peck, Leland E., Wyoming, Iowa. Press. 1,457,265; May 29.

Penton, Carl T., Detroit, Mich. Electric heater for fluids. 1,456,907; May 29.
People of the United States, The. (See Butterman, S., and Cooperrider, assignors.)
People of the United States. (See Gibbs, Harry D., assignor.)
Peoples Natural Gas Company. (See Anderson, James B., assignor.)
Perin, Charles P. (See Belcher, D., and Eustis, assignors.)
Perry, Hubert M. (See Jenks, C. D., and Perry.)
Persons, Charles A. (See Williams, Charles S., assignor.)
Petersen, Casper L. M., Toronto, Ontario, Canada. Drying cabinet. 1,456,711; May 29.
Petitjean, Clifford O. (See Wilcox, R. L., and Petitjean.)
Pickens, Davis A., Jackson, Miss. Switch lug. 1,457,266; May 29.
Pictorial Soap Manufacturing Corporation. (See Dostal, George A., assignor.)
Pictures Development Co., The. (See Whitmore, Edson G., assignor.)
Pilkington, Robert G., Chicago, Ill. Shackle. 1,457,001; May 29.
Pillsbury, Charles S., and L. S. Sims, Pulaski, Va. Lifting jack. 1,456,827; May 29.
Pistor, August T. (See Pistor, Ernest M., assignor.)
Pistor, Ernest M., Dundee, assignor of one-half to A. T. Pistor, Oak Park, Ill. Gauze-packing device. 1,456,828; May 29.
Plimpton, Bentley A., assignor of one-half to The Porcelain Insulator Corporation, Lima, N. Y. Suspension clamp for electrical conductors. 1,456,932; May 29.
Pneumatic Scale Corporation Limited. (See Robinson, George A., assignor.)
Podjus, Harry H., Chicago, Ill. Clothesline grip. 1,456,712; May 29.
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Fuel-retarding member. 1,456,648; May 29.
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Ledge-plate and water-box mounting for furnaces. 1,456,649; May 29.
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Water box for furnaces. 1,456,650; May 29.
Porcelain Insulator Corporation, The. (See Plimpton, Bentley A., assignor.)
Positive Traction Motors Corporation, et al. (See Dusseau, Maurice G., assignor.)
Posler, Adam. (See Gottwald, J., and Posler.)
Potter, Charles E., Toronto, Ontario, Canada. Paper clip. 1,457,042; May 29.
Pottruck, Irving, and N. Shalit, New York, N. Y. Photographic-print-washing machine. 1,456,514; May 29.
Powers, William E., Boston, and M. F. Hannigan, Watertown, Mass. Pneumatic tire. 1,456,908; May 29.
Preble, James J., Waltham, and L. H. Parker, assignors to Spray Engineering Company, Boston, Mass. Method and apparatus for cooling and cleaning air. 1,457,987; May 29.
Price, G. W., Pump and Engine Company. (See Price, G. W., and Zimansky, assignors.)
Price, Gomer W., and C. F. Zimansky, assignors to G. W. Price Pump and Engine Company, San Francisco, Calif. Antisand bearing. 1,456,713; May 29.
Price, Gomer W., and C. F. Zimansky, assignors to G. W. Price Pump and Engine Company, San Francisco, Calif. Well-pump construction. 1,456,714; May 29.
Price, Lora G., Los Angeles, Calif. Cash box. 1,457,227; May 29.
Pumpless Blow Torch Company. (See Anderson, James B., assignor.)
Pupin, Michael I., Norfolk, Conn., assignor to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Wave conductor. 1,456,909; May 29.
Puterbaugh, Joseph D., Fremont, Ohio. Signal. 1,457,267; May 29.
Putnam, Israel, Elmira, N. Y. Oil heater. 1,456,609; May 29.
Pyle-National Company, The. (See Dake, Charles W., assignor.)
Quandt, George E., Lockport, N. Y. Multiple-filament lamp. 1,456,568; May 29.
Quigley, John T., assignor to Costmeter Co., Boston, Mass. Filing equipment. 1,456,677; May 29.
Raddis, Paul, Miami, Okla. Amplifier for sound-reproducing machines. 1,456,678; May 29.
Raines, Thomas E. (See Bell, A. L., and Raines.)
Ralston, Arthur R. (See Connor, E. J., and Ralston.)
Rand, McNally & Co. (See Hansen, William A., assignor.)
Ransdell, Henry M. (See Schooley, J. G., and Ransdell.)
Rapisardi, Alfio, Boston, Mass. Painting device. 1,456,910; May 29.
Rasmussen, Harry T., assignor to The Auto Devices and Development Company, Denver, Colo. Heater and fuel saver for automobiles. 1,456,933; May 29.
Ratelle, Clarence, Los Angeles, Calif. Tire protector. 1,456,829; May 29.
Ray, Olaf E. (See Skinderviken, Johan, assignor.)
Reasoner, James A., Athens, Ohio. Tank cap. 1,457,088; May 29.
Rebollar y Plancht, Mauricio, Habana, Cuba. Pneumatic tube. 1,456,567; May 29.
Reck, Amzi G., Columbus, Ohio. Conveying mechanism. 1,456,715; May 29.
Redfield, William C. (See Larsen, H. G., and Redfield.)
Ree, Albert C., Libertyville, Ill. Shock absorber. 1,457,122; May 29.
Reece, Asa C. (See Reece, John E. and A. C.)
Reece, John E. and A. C., Butler, Tenn. Corn harvester. 1,456,569; May 29.
Reed, Charles C., Clarksburg, W. Va., assignor to The Hope Construction and Refining Company, Pittsburgh, Pa. Operation employed in extracting liquid vapor from a gaseous carrier. 1,456,570; May 29.
Reichheim, George L., assignor of one-half to W. H. Ritter, Short Beach, Conn. Carburetor. 1,456,515; May 29.
Reid, Daniel W. (See Gormley, D. A., and Reid.)
Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Receptacle and lock therefor. 1,457,002; May 29.
Reinery, Rudolf, Kabel, Germany. Automatic chuck. 1,457,268; May 29.
Reming, Richard, assignor to The Norwalk Vault Company, Norwalk, Ohio. Mold for burial vaults. 1,456,911; May 29.
Resck, Marc, Cleveland Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Pail-attaching means. 1,456,716; May 29.
Rett, Carl E., Akron, Ohio. Vulcanizing press. 1,456,571; May 29.
Rexford, Benjamin A., Alton, Ill. Traffic signal. 1,457,269; May 29.
Rice, John A., San Francisco, Calif. Method and apparatus for separating materials. 1,456,934; May 29.
Richardson, Henry, Passaic, N. J. Car unloader. 1,457,186; May 29.
Richardson, Tilda B., Spokane, Wash. Cord holder for vacuum cleaners. 1,456,935; May 29.
Richey, James I., Cincinnati, Ohio. Preheater. 1,456,572; May 29.
Richter, Paul, Daly City, Calif. Typewriter. 1,456,741; May 29.
Riecken, William E., Glendale, assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting plug. 1,456,516; May 29.
Rieder, John, Burlingame, Calif. Combined truck and tractor. 1,457,270; May 29.
Rieman, D. Myrtille, Portland, Oreg. Food-grinding machine. 1,456,551; May 29.
Riessner, Paul, Luckenwalde, Germany. Mechanism for playing zithers. 1,457,187; May 29.
Rigaud, Henri. (See Kendall, William G., assignor.)
Rigny, Arthur A., Milford, Pa. Combustion engine. 1,457,123; May 29.
Rinehart, Loron, Woodburn, Oreg. Drain plow. 1,457,271; May 29.
Rinsche, Frank C., assignor to Borroughs Adding Machine Company, Detroit, Mich. Card-sorting machine. 1,457,124; May 29.
Ritter, Will H. (See Reichheim, George L., assignor.)
Roberts, Elmer O., and R. F. Dotsch, Olympia, Wash. Folding portable table. 1,456,573; May 29.
Roberts, Elmer O., and R. F. Dotsch, Olympia, Wash. Hinge. 1,456,574; May 29.
Roberts, Hugh L., Roanoke, Va. Drifting valve. 1,457,272; May 29.
Robertson, Jesse N., Portland, Oreg. Shoe cleaner and scraper. 1,456,575; May 29.
Robertson, William. (See Rosine, Conrad, assignor.)
Robin, Jacob I., New York, N. Y. Grater. 1,457,228; May 29.
Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Packaging device. 1,456,576; May 29.
Robinson, Georgia, Grand Rapids, Mich. Bouquet holder. 1,456,859; May 29.
Robinson, Marion, Princeton, W. Va., assignor of one-half to Mrs. L. Markland, Jenkins, Ky. Railway switch. 1,457,229; May 29.
Roblin, Pierre F. M., St. Nazaire, France. Process and apparatus for permanent undulation of hair. 1,456,830; May 29.
Roderick Lean Manufacturing Company. (See Warne, Frederick C., assignor.)
Rogers, Emmet P., et al. (See Collman, Maurice, assignor.)
Rogers, Erastus W., Durham, N. C. Multiple-hole top for burner stoves. 1,457,188; May 29.
Rolfe, Miles, Vananda, Mont. Clothes boiler. 1,457,273; May 29.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Measuring instrument. 1,456,517; May 29.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rooney, Paul V., Morristown, N. J. Sound transmitter. 1,456,742; May 29.
Rosenthal, Edward, Brooklyn, N. Y. Universal-joint connecting rod. 1,456,577; May 29.
Rosine, Conrad, assignor of one-half to W. Robertson, Chicago, Ill. Fan. 1,457,125; May 29.
Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Battery ignition system. 1,456,880; May 29.

Ross, Frank, et al. (See Zweig, H., and Schneiderman, assignors.)
Ross, Marion J., Lynbrook, N. Y., and G. T. Atkinson, Philadelphia, Pa. Sidewalk door. 1,457,274; May 29.
Ross, William H. (See Hazen, W., and Ross.)
Ross, William H., and W. Hazen, Washington, D. C. Commercial preparation of potassium phosphate. 1,456,831; May 29.
Rossman, Allen M., assignor to Sargent & Lundy, Incorporated, Chicago, Ill. Electric power-generating system. 1,456,652; May 29.
Rottman, George, New York, N. Y. Hanger for moth-proof bags. 1,456,610; May 29.
Roubique Francis B., Napoleonville, La. Combined planter and fertilizer distributor. 1,457,230; May 29.
Rountree, H. W., & Brother Trunk & Bag Company. (See Rountree, Henry W., assignor.)
Rountree, Henry W., assignor to H. W. Rountree & Brother Trunk & Bag Company, Incorporated, Richmond, Va. Combined follower and ironing board. 1,456,832; May 29.
Roux, Max, Berlin, Germany. Illuminating device for use in connection with magnetic compasses of submarine vessels. 1,456,679; May 29.
Rovere, Lewis H. (See Janson, G. W., and Rovere.)
Royal Typewriter Company. (See Hess, E. B., and Myers, assignors.)
Rush, C. C. (See Behlen, George A., assignor.)
Rush, Robert T., Hattiesburg, Miss. Quarter-sawing machine. 1,456,912; May 29.
Ryson, Daniel, Emerado, N. Dak. Clevis. 1,456,680; May 29.
Safety First Auto-Tail-Light Company. (See Nicholson, G. W., and Kelly, assignors.)
Saginaw Manufacturing Company. (See Gilbert, Henry J., assignor.)
Samuels, Philip, Lowell, Mass. Manifold for gasoline engines. 1,457,003; May 29.
Sargent & Company. (See Voight, Henry G., assignor.)
Sargent & Lundy, Incorporated. (See Roesman, Allen M., assignor.)
Saunders, Addison T. (See Saunders, George H., assignor.)
Saunders, George H., Akron, Ohio, assignor of one-half to A. T. Saunders, Chicopee, Mass. Edible cereal product and making. 1,457,004; May 29.
Schaefer, Aloysius H. (See Brown, Harvey, assignor.)
Schepp, Albert J., and H. J., Manhattan, Kans. Well drill. 1,456,681; May 29.
Schepp, Herman J. (See Schepp, Albert J., and H. J.)
Scherer, Albert G., assignor to Excelsior Steel Furnace Company, Chicago, Ill. Pipe connection or boot. 1,457,126; May 29.
Scheuer, Alfred, Vienna, Austria, and H. Scheuer, Znaim, Czechoslovakia, assignors to the Firm Gebrüder Hardy, Vienna, Austria. Pneumatic brake. 1,456,578; May 29.
Scheuer, Hugo. (See Scheuer, Alfred and H.)
Schiers, Max, Grossenbaum, near Dusseldorf, Germany. Tobacco pipe. 1,457,189; May 29.
Schling, Max, New York, N. Y. Seed sower. 1,456,653; May 29.
Schmertzler, Isidore. (See Kaufman, David V., assignor.)
Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Marginal printing plates. 1,456,518; May 29.
Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Marginal printing plate. 1,456,936; May 29.
Schneeberger, Alfred, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage pancake-type coil. 1,456,937; May 29.
Schneiderman, Isidore. (See Zweig, H., and Schneiderman.)
Schoof, Arthur W., Greenfield, Mass. Instrument for testing and comparing the lead of a screw thread. 1,456,938; May 29.
Schooley, James G., and H. M. Randsdell, Tulsa, Okla. Apparatus for turning deep-well bits when being sharpened. 1,456,833; May 29.
Schramm, Frederick W., Springfield, Mass. Hot-air supply to intake manifolds. 1,457,043; May 29.
Schroeder Simon E., Oak Park, assignor to Washington Rubber Co., Cicero, Ill. Apparatus for making rubber rollers. 1,457,290; May 29.
Schuck, Conrad, jr., and G. Layer, East Orange, N. J. Safety gas-control system. 1,457,127; May 29.
Schwind, Jacob, Portland, Oreg. Shoe stretcher. 1,457,283; May 29.
Scott, Walter C., assignor to Globe Ticket Company, Philadelphia, Pa. Check-notching device. 1,457,231; May 29.
Scott, William, jr., Norristown, Pa. Stocking. Des. 62,435; May 29.
Sease, Virgil B. (See Kessler, J. M., and Sease.)
Sellman, Henry G., Detroit, Mich. Mold for concrete structures. 1,457,089; May 29.
Sellman, Henry G., Detroit, Mich. Apparatus for building concrete structures. 1,457,090; May 29.
Sells, Ogden S., Buffalo, N. Y. Washer for vegetables, etc. 1,457,284; May 29.
Semenoff, Ioakim M. and N. Gurnicki, Oshawa, Ontario, Canada. Sectional fence. 1,456,519; May 29.
Senn, Charles. (See Leisten, N., and Senn.)
Shalit, Norman. (See Pottruck, I., and Shalit.)
Shank, Lewis H. (See Buckwalter, Jacob S., assignor.)
Sharp, Charles W., Hamilton, Ontario, Canada. Nonrefillable bottle. 1,456,939; May 29.
Shave, George J., assignor to The London General Omnibus Company Limited, Westminster, London, England. Passenger vehicle. 1,457,190; May 29.
Shaw, John K., Minneapolis, Minn. Wall board made from bagasse and analogous fibers. 1,457,285; May 29.
Shawinigan Laboratories Limited. (See Matheson, Howard W., assignor.)
Sheffield, Joseph H., Chicago, Ill Printing. 1,456,834; May 29.
Sheney, Joseph H., Decatur, Ill. Portable folding sectional camp cot. 1,457,232; May 29.
Sherry, John C., Seattle, Wash. Safety device for flying machines. 1,457,044; May 29.
Shipman, Joseph W. C., Los Angeles, Calif. Apron for photographic developing equipment. 1,457,045; May 29.
Shively, Charles A., Hoquiam, Wash. Grate construction. 1,456,835; May 29.
Showalter, Jay B. F., Pekin, Ill. Scaffold and roof bracket. 1,456,940; May 29.
Shreeve, Herbert E., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Energization and control of vacuum tubes. 1,456,520; May 29.
Siemens-Schuckert Werke G. m. b. H. (See Türk, O., and Kozisek, assignors.)
Simler, James B., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Cooling device for internal-combustion engines. 1,457,005; May 29.
Simpson, John T., Newark, N. J. Reenforced-concrete vessel. 1,457,006; May 29.
Sims, Jacob, Brooklyn, N. Y. Hand bag. Des. 62,436; May 29.
Sims, Joseph S., Idaho Falls, Idaho. Brake and clutch lock. 1,456,579; May 29.
Sims, Lige S. (See Pillsbury, C. S., and Sims.)
Sinclair Hair Curler Company. (See Sinclair, Paul, assignor.)
Sinclair, Paul, assignor to Sinclair Hair Curler Company, Williamsport, Pa. Hair curler. 1,457,191; May 29.
Skinderviken, Johan, assignor of one-half to O. E. Ray, Chicago, Ill. Electric safety system for railways. 1,457,192; May 29.
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. 1,456,941; May 29.
Slezak, Vincent, assignor of one-half to N. E. Ford, Chicago, Ill. Bag folding and sealing device. 1,456,836; May 29.
Slovack, Joseph J., Sunderland, Mass. Pie-cutting device. 1,457,233; May 29.
Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
Smith, Arthur E., and A. D. Gray, Chicago, Ill. Hypodermic syringe. 1,456,717; May 29.
Smith, Charles F., Chicago, Ill. Peeling machine. 1,457,007; May 29.
Smith, Edward M., and R. E. Heidrich, Los Angeles, Calif.; said Heidrich assignor to said Smith. Device for perforating oil-well casings. 1,457,193; May 29.
Smith, John D., Cheraw, S. C. Valve. 1,456,942; May 29.
Smith, Robert E., Thermopolis, Wyo. Grappling tool. 1,456,943; May 29.
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Self-anchoring rivet. 1,457,008; May 29.
Smith, Vernon B. (See Newman, Thomas, assignor.)
Smith, Walter S., Columbus, Ohio. Spring scale. 1,457,194; May 29.
Smith, Willard C. (See Warren, N. J., and Smith.)
Sorensen, Frank F., Philadelphia, Pa., and W. D. Craft, Newark, N. J. Machine for cutting file teeth on curved surfaces. 1,457,091; May 29.
Souders, Herbert V., Wilmington, assignor of one-half to J. M. Frost, Long Beach, Calif. Jack bolster. 1,457,195; May 29.
Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Fuel-feeding device. 1,457,286; May 29.
Sparks-Withington Company, The. (See Sparks, William, assignor.)
Sperry Gyroscope Company. (See Tanner, Harry L., assignor.)
Spray Engineering Company. (See Preble, J. J., and Parker, assignors.)
Stahle, Gustaf. (See Bergström, Johan E., assignor.)
Standard Conveyor Company. (See Fraley, Lawrence V., assignor.)
Stanfield, Charles H., Wichita, Kans. Grinder. 1,457,092; May 29.
Stanley Works, The. (See Lewis, Brayton S., assignor.)
Stap Co. (See Acito, J., and Timen, assignors.)
Starik, Adolph E., Lakewood, Ohio. Lifting apparatus. 1,457,009; May 29.
Starr, Meyer, New York, N. Y. Check writer. 1,456,522; May 29.
Steffee, William H., assignor of one-half to A. D. Major, Worcester, Mass. Railway spike. 1,456,682; May 29.
Stein, Solomon, Washington, D. C. Jewel setting. 1,457,196; May 29.

Stenbol, Carl, assignor to Algoma Steel Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Cooling rails or the like after rolling. 1,456,944; May 29.
Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)
St. Louis Brass Manufacturing Company. (See Guth, Edwin F., assignor.)
Stoll, David, New York, N. Y. Metal border strip or similar article of manufacture. Des. 62,437; May 29.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coupler. 1,456,945; May 29.
Stork, William B., Andover, Mass. Automatic steam stop valve. 1,456,946; May 29.
Stough, William P., Sherwood, Mich. Hitch and clutch release device for tractors. 1,457,046; May 29.
Strausbaugh, Charles F., Detroit, Mich. Mold forms in pairs of combinative assembled forms for the making of artificial-stone furniture, etc. 1,456,947; May 29.
Strauss, Louis, Brooklyn, N. Y. Sweater. Des. 62,438; May 29.
Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash hopper. 1,456,654; May 29.
Strout, Elmer J., Utica, Ill. Plug holder. 1,457,234; May 29.
Stusser, Richard, Dentz, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Azo dyestuffs. 1,457,235; May 29.
Sullivan, John V., Fremont, Ohio. Glove. 1,456,580; May 29.
Sunderman Corporation. (See Sunderman, Frederick R., assignor.)
Sunderman, Frederick R., Detroit, Mich., assignor to Sunderman Corporation, Newburgh, N. Y. Carburetor. 1,457,010; May 29.
Symington, T. H., Company, The. (See Wright, Ira O., assignor.)
Szabo, George A., Cleveland, Ohio. Appliance for automatically indicating the amount of gasoline in automobile tanks. 1,456,743; May 29.
Tan Sad Limited. (See Headley, Frederick H., assignor.)
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Controlling mechanism for stabilizing gyroscopes. 1,456,744; May 29.
Taplin, George C., Brookline, Mass. Operating-table attachment. 1,457,093; May 29.
Taylor, Edwin, Edwardsville, Kans. Sack holder. 1,457,047; May 29.
Taylor, Henry H., and M. B. Hammond, assignors to The Thomas P. Taylor Company, Bridgeport, Conn. Garter. 1,456,948; May 29.
Taylor, Thomas P., Company, The. (See Taylor, H. H., and Hammond, assignors.
Taylor, William O. (See Howie, K., and Taylor.)
Teillard, Armand L. A., Paris, France. Purifying natural barium sulphate. 1,456,949; May 29.
Temco Electric Motor Company, The. (See Toulmin, Harry A., jr., assignor.)
Thomas, George J., Lansing, Mich. Brake. 1,457,048; May 29.
Thomas, Horace T., Lansing, Mich. Apparatus for finishing upholstering. 1,457,197; May 29.
Thomas, Walter F., St. Helens, Isle of Wight, England. Internal-combustion engine. 1,456,655; May 29.
Thompson, H. V., et al. (See Thompson, Reid W., assignor.)
Thompson, Reid W., assignor to H. V. Thompson and R. W. Walls, Turner, Iowa. Measuring device. 1,456,745; May 29.
Thompson, Robert J., Harrisburg, Pa., and R. S. Dalton, assignors of one-half to The Cleveland Folding Machine Company, Cleveland, Ohio, and one-half to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Paper-feeding apparatus. 1,457,094; May 29.
Thurnauer, Max H., Cincinnati, Ohio. Electric-light fixture. 1,456,683; May 29.
Timen, Paul. (See Acito, J., and Timen.)
Tober, Carl, Berlin-Karlshorst, Germany. Braiding machine. 1,456,656; May 29.
Torbensen Axle Company, The. (See Carlson, Gustav W., assignor.)
Toulmin, Harry A., jr., Dayton, assignor to The Temco Electric Motor Company, Leipsic, Ohio. Shock absorber. 1,456,657; May 29.
Tower, Ralph S., Cottage Grove, Oreg. Switch. 1,456,950; May 29.
Trenholme, Arthur K., Portland, Oreg. Single-tube bicycle tire. 1,457,287; May 29.
Trimble, Russell F., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for treating metals. 1,456,523; May 29.
Trost, Adolph, assignor to J. J. White, Chicago, Ill. Electrically-heated former for rounding the backs of book covers. 1,457,108; May 29.
Troupe, Paul V., Moline, Ill. Transmission-gearing unit. 1,457,236; May 29.
Turner, Albert. (See Brown, G., and Turner.)
Türk, Otto, and J. Kozisek, Charlottenburg, near Berlin, assignors to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany. Alternating-current commutator motor. 1,456,658; May 29.
Turner, William, East Chicago, Ind. Earthworking device. 1,456,860; May 29.
Twigg, Albert, Garrett, Pa. Compartment pail. 1,456,951; May 29.
Uhlemann, Theodore F., assignor to Nicholas Power Company, New York, N. Y. Cable terminal for arc lamps. 1,456,746; May 29.
Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)
Underwood Typewriter Company. (See Fowler, Ewell E., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. E., assignor.)
Union Trust Company, The, trustee. (See Egler, Nicolas F., assignor.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
U. S. Ball Bearing Mfg. Company. (See Diesk, John, assignor.)
United States Machine Tool Company, The. (See Heckmann, Harry A., assignor.)
United States Specialty Corporation. (See Lundquist, Hans, assignor.)
Utley, Arthur B., Springfield, Mo. Grappling device. 1,457,198; May 29.
Van Amstel, Tudor. (See Lundell, A. E., and van Amstel.)
Vanatta, Jean K., assignor to Mudge & Company, Chicago, Ill. Motor car. 1,456,659; May 29.
Van Buren, Martin, Dayton, Wash. Carpet-beating machine. 1,457,237; May 29.
Van Marle, Martin, Lower Gornal, England. Apparatus for charging or discharging furnaces. 1,456,837; May 29.
Van Meter, Morton, Cadillac, Mich. Vehicle wheel. 1,456,952; May 29.
Vedder, Fred N., et al. (See Greenwood, George E., assignor.)
Vergote, Gustave, Marshall, Minn. Can lifter and ice tongs. 1,457,238; May 29.
Vickers, Harry F. (See Eaton, A. L., and Vickers.)
Vickers, Harry H., Corona, assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. 1,456,660; May 29.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Victor Tool Company, The. (See Koontz, Victor R., assignor.)
Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. 1,456,838; May 29.
Voigt, Joseph C., Los Angeles, Calif. Water-circulating machine run by the fan belt for gasoline engines on automobiles. 1,456,684; May 29.
Vollendorf, Benjamin O., Iron Mountain, Mich. Motor truck. 1,456,747; May 29.
Volpian, Alexander S., Savannah, Ga. Lamp filament and support. 1,457,239; May 29.
Von Groeling, Albrecht, assignor to National Refining Corporation, Inc., New York, N. Y. Separation of natural gas and distillation gases into gasoline and other constituents. 1,456,953; May 29.
Von Lücken, Gottfried, Berlin, Germany. Photographically reproducing pictures represented on curved surfaces. 1,456,954; May 29.
Wagner, Albert G., Norwood, assignor of two-eighths to H. A. Meyer, two-eighths to F. Elsbach, and two-eighths to J. Bloch, Cincinnati, Ohio. Transmission-gear-shifting mechanism. 1,457,199; May 29.
Wagner, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for obtaining high momentary current. 1,456,955; May 29.
Wagstaff, Andrew L., Kansas City, Mo. Collapsible ironing board. 1,456,661; May 29.
Wahl Company, The. (See Welch, Horace H., assignor.)
Waldron, Fred D., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Helmet. 1,456,524; May 29.
Walls, R. W., et al. (See Thompson, Reid W., assignor.)
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Producing of cast-metal wheels. 1,457,128; May 29.
Wanamaker, Edmund E., New Hartford, N. Y. Extension bed. 1,457,129; May 29.
Ward, Wallace E., New York, assignor to A. H. Ingle, Rochester, N. Y. Lathe headstock and feed mechanism with rapid traverse. 1,457,095; May 29.
Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Disk harrow. 1,457,277; May 29.
Warren, Nelson J., and W. C. Smith, Sioux City, Iowa. Oil burner. 1,457,006; May 29.
Warren Soap Manufacturing Company. (See Howe, C. C., and Libby, assignors.)
Washington Rubber Co. (See Schroeder, Simon E., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, R. L., and Petitjean, assignors.)
Waters, Samuel B., Johnstown, Pa. Combustion device. 1,456,748; May 29.

Webb, Edward, Reading, assignor of one-half to Julian d'Este Company, Charlestown, Mass. Pressure-reducing valve. 1,457,049; May 29.
Weber, Louis. (See London, S., and Weber.)
Wedemeyer, William F., Sheboygan, Wis. Automobile signal. 1,457,200; May 29.
Welch, Horace H., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pencil. 1,457,011; May 29.
Welch, Thomas H., Hawthorne, assignor of one-third to H. K. Curtis and one-third to J. L. D. Bristol, Chappaqua, N. Y. Radiator protector. 1,456,749; May 29.
Welsbach Company. (See Fehrenbach, Reinhold, assignor.)
Welsh, Ulysses S. G., Brooklyn, N. Y. Dishwashing machine. 1,457,240; May 29.
West, P. C., Mfg. Co. (See West, Preston C., assignor.)
West, Preston C., Hamilton, Mont., assignor to P. C. West Mfg. Co. Inc., Chicago, Ill. Machine for opening cans. 1,456,525; May 29.
Westcott, Henry P., Erie, Pa. Differential-pressure gauge. 1,457,201; May 29.
Western Electric Company. (See Arnold, Harold D., assignor.)
Western Electric Company. (See Burgess, Harry A., assignor.)
Western Electric Company. (See Clark, Edgar H., assignor.)
Western Electric Company. (See Crandall, Irving B., assignor.)
Western Electric Company. (See Forsberg, Oscar F., assignor.)
Western Electric Company. (See Glunt, Omer M., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Houskeeper, William G., assignor.)
Western Electric Company. (See Knoop, W. A., and Cioffi, assignors.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See Lundell, A.E., and Van Amstel, assignors.)
Western Electric Company. (See Leveridge, Walter J., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Minton, John P., assignor.)
Western Electric Company. (See Riecken, William E., assignor.)
Western Electric Company. (See Shreeve, Herbert E., assignor.)
Western Electric Company. (See Trimble, Russell F., assignor.)
Western Electric Company. (See Waldron, Fred D., assignor.)
Western Electrical Instrument Company. (See Goodwin, William N., jr., assignor.)
Western Manufacturing Company. (See McMullin, Joseph B., assignor.)
Western Union Telegraph Company, The. (See Janson, G. W., and Rovere, assignors.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pupin, Michael I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schneeberger, Alfred, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wagner, Charles F., assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Articulated car. 1,456,839; May 29.
Weyandt, David H., Sidman, Pa. Automobile radiator. 1,457,202; May 29.
Whatmough, Wilfred A. (See Keith, G., and Whatmough.)
Wheat, Edwin B. (See Kreutz, Vernon C., assignor.)
Wheeling Stamping Company. (See McGinnis, John A., assignor.)
Whipkey, Erle. (See Ingraham, Leo L., assignor.)
White, Charles E., assignor to Deere & Company, Moline, Ill. Disk cultivator. 1,456,581; May 29.
White, Joseph J. (See Trost, Adolph, assignor.)
Whitmore, Edson G., Point Place, assignor to The Pictures Development Co., Toledo, Ohio. Motion-picture apparatus. 1,457,012; May 29.
Whitmore, Eugene R., U. S. Army. Vaccine and preparing same. 1,457,097; May 29.
Wick, Sarah J., Lonerock, Oreg. Mattress. 1,457,203; May 29.
Wilborn, J. C., et al. (See Nell, Joseph B., assignor.)
Wilcox, Richard L., and C. O. Petitjean, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Connection mechanism. 1,457,098; May 29.
Wilder, Harry E., El Paso, Tex. Tourist map and operating mechanism therefor. 1,456,662; May 29.
Wilder, Ida D., Lake City, Fla. Sanitary seat cover. 1,456,685; May 29.
Wildman Mfg. Co. (See Howie, K., and Taylor, assignors.)
Williams, Alva J., assignor to Williams Oil Control Transmission Company, Tacoma, Wash. Fluid-controlled transmission. 1,456,956; May 29.
Williams, Charles S., North Billerica, assignor to C. A. Persons, Worcester, Mass. Motor-cycle attachment. 1,457,241; May 29.
Williams, Frank W., Chicago, Ill. Stop for the controlling levers of automobiles. 1,456,750; May 29.
Williams Oil Control Transmission Company. (See Williams, Alva J., assignor.)
Willis, Grover C., assignor to Willis-Warner Manufacturing Company, Kansas City, Mo. Motor protector. 1,456,663; May 29.
Willis-Warner Manufacturing Company. (See Willis, Grover C., assignor.)
Wilson, Byron E., assignor to The Eymon Crossing Company, Marion, Ohio. Railway crossing. 1,456,751; May 29.
Wilson, James O., Jersey City, N. J. Permutation lock. 1,456,957; May 29.
Wilson, William G., Bridgeport, Conn. Vehicle wheel. 1,457,013; May 29.
Winks, John O., assignor of one-half to B. L. Benson, San Francisco, Calif. Hair curler. 1,457,099; May 29.
Wood, Robert, and C. Garrett, Vancouver, British Columbia, Canada. Packing case. 1,456,582; May 29.
Woods, S. A., Machine Company. (See Blood, C. W. H., and Osteman, assignors.)
Woods, Sophie L. (See Jenks, C. D., and Perry, assignors.)
Woodhead, Peter. (See McGhee, T., and Woodhead.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodstock Typewriter Company. (See Meckstroth, Louis W., assignor.)
Wolff, Oscar M., assignor to B. B. Hanak Company, Chicago, Ill. Meat mold. 1,456,958; May 29.
Wooley, Horace M., jr., et al. (See Greenwood, George E., assignor.)
Wright, Alfred G., Bywood, Pa. Dental amalgam machine. 1,456,526; May 29.
Wright, Ira O., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. 1,457,278; May 29.
Wright, Thomas H. (See Hutchinson, George, assignor.)
Yale, Warren W., assignor of one-half to A. B. Hickman, Chickasha, Okla. Pulley. 1,457,130; May 29.
Yelch, Luther C., and R. H. G. Parker, Reading, Pa. Metal weather strip. 1,456,664; May 29.
Young, Charles O. (See Curme, G. O., jr., and Young.)
Young, Charles O., Elmhurst, N. Y., assignor to Carbide & Carbon Chemicals Corporation. Making chlorhydrins. 1,456,959; May 29.
Young, Willis B., Olympia, Wash. Attachment for internal-combustion motors. 1,456,527; May 29.
Zdanowich, Joe O., London, England. Cellulose acetate. 1,457,131; May 29.
Zeh, Edmund W., Newark, N. J. Power tile press. 1,456,752; May 29.
Zimansky, Curt F. (See Price, G. W., and Zimansky.)
Zitscher, Arthur. (See Laska, A. L., and Zitscher.)
Zsikay, Stephen, Philadelphia, Pa. Foldable stool. 1,456,840; May 29.
Zweig, Henry, and I. Schneiderman, assignors of one-half to F. Ross and one-half to B. Bretan, Brooklyn, N. Y. Watch ring. 1,457,014; May 29.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF MAY, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acid, Method and apparatus for manufacturing sulphuric. T. R. Harney. 1,457,164; May 29.
Acoustic apparatus. I. B. Crandall. 1,456,538; May 29.
Advertising device and twine holder, Combined. J. L. Orr. 1,456,825; May 29.
Aeroplane. H. Frey. 1,457,222; May 29.
Air-circulating system. R. Kramer. 1,456,699; May 29.
Air, Method and apparatus for cooling and cleaning. J. J. Preble and L. H. Parker. 1,457,087; May 29.
Air separator. R. M. Gay. 1,457,110; May 29.
Air supply, Auxiliary. A. Boone. 1,457,207; May 29.
Aircraft and the like, Control for. H. M. Fransen. 1,457,024; May 29.
Airplane. F. R. Maxwell, jr. 1,456,643; May 29.
Airships and the like, Skeleton frame construction for. K. Arnstein. 1,456,497; May 29.
Alarm: *See*—
  Burglar alarm.
Alarm lock. G. Gesmundo. 1,456,689; May 29.
Alloy and its production, Bronse. P. Ostendorf. 1,457,288; May 29.
Alloy, Copper and zinc. P. Ostendorf. 1,457,289; May 29.
Aluminum or its alloys for electroplating, Preparing. H. D. Cunningham. 1,457,149; May 29.
Amino compounds, Manufacture of aromatic. O. W. Brown and C. O. Henke. 1,456,969; May 29.
Ammonia, Making aldehyde. H. W. Matheson. 1,456,702; May 29.
Animal trap. J. Gottwald and A. Posler. 1,456,733; May 29.
Animal trap. O. H. Moen. 1,456,929; May 29.
Anthracene press cake, Purifying. H. D. Gibbs. 1,456,848; May 29.
Antirust composition. C. C. Howe and S. W. Libby. 1,457,169; May 29.
Arch support. A. and I. Bernat. 1,456,758; May 29.
Armor plate and making same. F. Bradley and H. L. Frevert. 1,457,101–3; May 29.
Arsenical solutions, Making. A. Mai. 1,456,509; May 29.
Ash hopper. A. P. Strong. 1,456,654; May 29.
Auto creeper. S. London and L. Weber. 1,457,117; May 29.
Auto table. K. B. Harvey. 1,457,028; May 29.
Autographic register. L. F. Hagemann. 1,456,768–73; May 29.
Automobile direction signal. G. W. Mason. 1,457,260; May 29.
Automobile exhaust lock. G. A. and T. K. Lowry. 1,456,640; May 29.
Automobile hand signaling device. A. R. Fergusson. 1,457,023; May 29.
Automobile locking mechanism. J. W. Flynn. 1,456,922; May 29.
Automobile radiator. D. H. Weyandt. 1,457,202; May 29.
Automobile radiator cap. H. A. Mayberry. 1,457,070; May 29.
Automobile running boards, Adjustable step for. J. Disch and J. G. Trese. 1,457,152; May 29.
Automobile signal. C. C. Bielitz. 1,456,967; May 29.
Automobile signal. G. W. Nicholson and A. J. Kelly. 1,457,263; May 29.
Automobile signal. W. F. Wedemeyer. 1,457,200; May 29.
Automobile tanks, Appliance for automatically indicating the amount of gasoline in. G. A. Szabo. 1,456,743; May 29.
Automobiles, carriages and the like, Fender brace for. F. L. Bronson. 1,457,144; May 29.
Automobiles, Clutch-spring-compressing device for Chevrolet. A. F. Gross. 1,456,796; May 29.
Automobiles, Heater and fuel saver for. H. T. Rasmussen. 1,456,933; May 29.
Automobiles, Platform-spring suspension for. A. J. Barron and H. E. Crow. 1,457,138; May 29.
Automobiles, Stop for the controlling levers of. F. W. Williams. 1,456,750; May 29.
Automobiles, Water-circulating machine run by the fan belt for gasoline engines on. J. C. Voigt. 1,456,684; May 29.
Azo dyestuffs. R. Stüsser. 1,457,235; May 29.
Bag fitting. H. J. Chilton. 1,456,721; May 29.
Bag folding and sealing device. V. Slezak. 1,456,836; May 29.
Bag holder. C. J. Hause. 1,457,246; May 29.
Bags, Hanger for mothproof. G. Rottman. 1,456,610; May 29.
Ball: *See*—
  Float ball.
Ball-attaching means. M. Resek. 1,456,716; May 29.
Ball retainers, Machine for filling. J. Diesk. 1,456,787; May 29.
Bank panels, Adjustable mounting for terminal-. O. F. Forsberg. 1,456,500; May 29.
Barium sulphate, Purifying natural. A. L. A. Teillard. 1,456,949; May 29.
Bathing suit. A. Panalle. 1,457,264; May 29.
Batteries and the like, Filling device for. O. H. Kolb. 1,457,079; May 29.
Battery container, Storage-. R. B. Owen. 1,456,565; May 29.
Battery ignition system. A. Rosner. 1,456,880; May 29.
Bayonet wire cutter. P. P. Grabowsky. 1,456,767; May 29.
Beaches and resorts, Means to withdraw surface water from bathing. S. M. Booth. 1,456,759; May 29.
Bearing, Adjustable ball. S. Munson. 1,457,184; May 29.
Bearing, Antifriction. C. D. Jenks and H. M. Perry. 1,456,984; May 29.
Bearing, Antifriction. J. F. O'Connor. 1,456,996–7; May 29.
Bearing, Antisand. G. W. Price and C. F. Zimansky. 1,456,713; May 29.
Bearing, Electrically-insulated. A. Kingsbury. 1,456,804; May 29.
Bearing, Thrust. W. H. Lieber. 1,457,081; May 29.
Bearing, Thrust. R. C. Newhouse. 1,457,086; May 29.
Bed, Extension. E. E. Wanamaker. 1,457,129; May 29.
Bed, Folding. G. R. McAllaster. 1,456,988; May 29.
Bed structure, Davenport-. H. and N. M. Freedman. 1,456,635; May 29.
Bedspring structure. W. O. Lathrop. 1,456,738; May 29.
Belt material, Drive-. H. M. Gusdorf. 1,457,243; May 29.
Belts, Apparatus for making abrasive. R. A. Moore. 1,456,561; May 29.
Binding element. C. F. Kettering. 1,456,851; May 29.
Bits when being sharpened, Apparatus for turning deep-well. J. G. Schooley and H. M. Ransdell. 1,456,833; May 29.
Blocking machine. G. S. Dey. 1,456,673; May 29.
Blow torch. J. B. Anderson. 1,456,718; May 29.
Board: *See*—
  Ironing board. Plaster board.
Board, table, and container, Combination running. J. E. Kermode. 1,456,780; May 29.
Bobbin clutch. G. H. Magrath. 1,457,226; May 29.
Boiler: *See*—
  Clothes boiler.
Boiler construction. E. Kidwell. 1,457,281; May 29.
Boiler-feed-water system. G. W. Cope. 1,456,722 May 29.
Boiler-tube cutter. M. Maher. 1,457,258; May 29.
Boilers, Baffle for water-tube. E. Kidwell. 1,457,282; May 29.
Bolt: *See*—
  Clampbolt.
Book covers, Electrically-heated former for rounding the backs of. A. Trost. 1,457,108; May 29.
Boxes, Automatic signal-operating device for mail. H. C. Feist. 1,456,543; May 29.
Bottle-capping and wire-removing machine. R. J. Canton. 1,456,617; May 29.
Bottle closure, Automatic. C. Harrer. 1,456,774; May 29.
Bottle holder. R. E. Frank. 1,456,728; May 29.
Bottle holder, Milk-. M. G. Gardonyi. 1,457,060; May 29.
Bottle, Nonrefillable. C. W. Sharp. 1,456,939; May 29.
Bottle, Vacuum. A. G. Hale. 1,456,797; May 29.
Bouquet holder. G. Robinson. 1,456,859; May 29.
Box: *See*—
  Cash box. Match box.
  Conduit outlet box.
Braiding machine. C. Tober. 1,456,656; May 29.
Bracket: *See*—
  Scaffold bracket. Scaffold and roof bracket.
Brake: *See*—
  Pneumatic brake.
Brake. G. J. Thomas. 1,457,048; May 29.
Brake and clutch lock. J. S. Sims. 1,456,579; May 29.
Brake-applying device, Pressure-equalizing. O. J. Frock. 1,457,156; May 29.
Brake-band fitting. O. Konigslow, sr. 1,456,605–6; May 29.

Brake, Double-acting load. W. E. Hale. 1,457,162; May 29.
Brick and like materials, Crate for loading and unloading. H. G. Fergus. 1,456,975; May 29.
Brick or tile for furnace construction. C. F. Binns. 1,456,498; May 29.
Brush, Fountain. B. D. Geib. 1,456,977; May 29.
Buckle. E. L. Johnson and O. Lundsten. 1,457,032; May 29.
Building element. J. Melles. 1,456,812; May 29.
Bundle carrier and shocker. J. Miller. 1,456,675; May 29.
Burglar alarm. J. E. Lee. 1,457,176; May 29.
Burner: *See*—
  Gas burner. Oil burner.
  Hydrocarbon burner.
  Liquid and gaseous fuel burner.
Cabinet, Stationery. R. Neddo. 1,456,562; May 29.
Cables, Fastening device for. A. W. Olson. 1,456,824; May 29.
Calling device. W. Kaisling. 1,456,602; May 29.
Can Closures, Attachment for. B. B. Foster. 1,456,791; May 29.
Can-feeding mechanism. J. A. Lee. 1,457,177; May 29.
Can lifter and ice tongs. G. Vergote. 1,457,238; May 29.
Cans, Machine for opening. P. C. West. 1,456,525; May 29.
Cane stripper. G. D. Luce. Re15,616; May 29.
Car-door lock. J. C. Fritts. 1,456,611; May 29.
Car, Dump. G. G. Gilpin. 1,456,978; May 29.
Car end, Corrugated-sheet-metal. 1,456,705; May 29.
Car, Motor, J. K. Vanatta. 1,456,659; May 29.
Car roof. C. D. Bonsall. 1,456,531; May 29.
Car roof. G. G. Gilpin. 1,456,731–2; May 29.
Car unloader. H. Richardson. 1,457,186; May 29.
Cars, Articulated. C. T. Westlake. 1,456,839; May 29.
Carburetor. D. A. Gormley and D. W. Reid. 1,457,112; May 29.
Carburetor. G. L. Reichhelm. 1,456,515; May 29.
Carburetor. F. R. Sunderman. 1,457,010; May 29.
Carburetor for internal-combustion engines. A. E. Hartwell. 1,456,502; May 29.
Card, Foldable. Z. Auerbach. 1,457,135; May 29.
Card-sorting machine. F. C. Rinsche. 1,457,124; May 29.
Carpet-beating machine. M. Van Buren. 1,457,237; May 29.
Carriages for effecting desired wheel pressure, Balancing device between two coupled. I. Broberg. 1,456,587; May 29.
Carrier: *See*—
  Lumber carrier.
Carrier. E. J. Dalton. 1,457,213; May 29.
Carrier-table attachment. J. P. Damm. 1,456,623; May 29.
Carrying and shipping case. L. W. Meckstroth. 1,456,703; May 29.
Case: *See*—
  Map case. Sample case.
  Packing case. Vanity case.
Cash box. L. G. Price. 1,457,227; May 29.
Casting and making metal castings, Metal. D. Cordino. 1,456,869; May 29.
Casting machine. J. A. McManus. 1,457,040; May 29.
Castings, Making metal. D. Cordino. 1,456,868; May 29.
Cellulose acetate. J. O. Zdanowich. 1,457,131; May 29.
Cellulose acetate from solutions thereof, Recovering. J. M. Kessler and V. B. Sease. 1,456,781; May 29.
Cellulose-ester composition. J. M. Kessler. 1,456,782; May 29.
Cellulose material and making same, Regenerated. N. E. Ditman. 1,456,540; May 29.
Centrifugal separating means. R. E. Lapham. 1,456,737; May 29.
Ceramic and similar materials and producing same, Joint for articles of. A. O. Austin. 1,456,960; May 29.
Cereal product and making, Edible. G. H. Saunders. 1,457,004; May 29.
Chain holder, Watch-. C. H. J. Dilg. 1,457,105; May 29.
Chair, stool, seat, and the like, Metallic. F. H. Headley. 1,456,800; May 29.
Check books, Stub binding and envelope for. E. P. Benson. 1,456,616; May 29.
Check-notching device. W. C. Scott. 1,457,231; May 29.
Check writer. M. Starr. 1,456,522; May 29.
Chlorhydrins, Making. G. O. Curme, jr., and C. O. Young. 1,456,916; May 29.
Chlorhydrins, Making. C. O. Young. 1,456,959; May 29.
Chuck, Automatic. R. Reinery. 1,457,268; May 29.
Chuck, Centering. W. J. Herschede and W. Eberhardt. 1,457,247; May 29.
Chutes, Overflow mechanism for. H. M. Gleason. 1,456,545; May 29.
Cigarette holder. W. Josselyn 1,457,251; May 29.
Cinematograph and phonograph production, Picture film for combined. A. T. M. Johnson. 1,456,558; May 29.
Cinematographic projection apparatus. K. Higginson. 1,456,776; May 29.
Circuits, Composite signaling. B. P. Hamilton. 1,456,549; May 29.
Clamp: *See*—
  Form clamp. Rope clamp.
Clamp bolt. J. W. Mallory and W. M. Johnston. 1,457,182; May 29.
Clamping device. M. J. De Grave. 1,457,150; May 29.
Clasp: *See*—
  Spring clasp.
Clasp. J. Acito and P. Timen. 1,457,133; May 29.
Clasp. J. Montgomery. 1,456,990; May 29.
Clearing plant with sludge decomposition. K. Imhoff. 1,456,557; May 29.
Clevis. D. Ryson. 1,456,680; May 29.
Clip; *See*—
  Paper clip.
Clip. M. P. Harvey. 1,456,551; May 29.
Clothes boiler. M. Rolfe. 1,457,273; May 29.
Clothesline reel. L. Medved. 1,456,704; May 29.
Clutch, Dry-plate. O. E. Fishburn. 1,457,221; May 29.
Coffee for each one drawn from an urn, Apparatus for and process of automatically percolating a fresh quantity of. V. C. Kreutz. 1,457,037; May 29.
Coil, High-voltage pancake-type. A. Schneeberger. 1,456,937; May 29.
Coin counter. J. C. Mathewes. 1,457,261; May 29.
Colorimeter nephelometer, Combined. J. C. Bock and S. R. Benedict. 1,456,964; May 29.
Combustion device. S. B. Waters. 1,456,748; May 29.
Combustion engine. A. A. Rigny. 1,457,123; May 29.
Commutator motor, Alternating-current. O. Türk and J. Koslsek. 1,456,658; May 29.
Compass ellipsograph. J. A. Caldwell. 1,456,970; May 29.
Compasses of submarine vessels, Illuminating device for use in connection with magnetic. M. Roux. 1,456,679; May 29.
Compressor, Lubricant. N. W. Cummins. 1,456,973; May 29.
Computing machine. H. H. Vickers. 1,456,660; May 29.
Concrete mold or form. T. De La Mare. 1,456,539; May 29.
Concrete, Nailing. J. E. Kleist. 1,456,985; May 29.
Concrete structures, Apparatus for building. H. G. Sellman. 1,457,090; May 29.
Concrete structures, Mold for. H. G. Sellman. 1,457,089; May 29.
Concrete tie and rail clamp. W. T. Dickey. 1,457,151; May 29.
Condenser apparatus. R. N. Ehrhart. 1,456,871; May 29.
Condensing apparatus. R. N. Ehrhart. 1,456,870; May 29.
Conduit end fitting. F. I. Johnson. 1,457,171; May 29.
Conduit outlet box. W. G. Franke. 1,456,792; May 29.
Connection mechanism. R. L. Wilcox and C. O. Petitjean. 1,457,098; May 29.
Container. F. E. Fey. 1,457,155; May 29.
Conveying mechanism. A. G. Reck. 1,456,715; May 29.
Corn feeding and debutting machine. G. W. Davis. 1,456,624; May 29.
Corn mixer and silk remover. J. J. Peahotzki. 1,456,826; May 29.
Cot, Portable folding sectional camp. J. H. Sheney. 1,457,232; May 29.
Cotton picker. J. B. Neil. 1,456,645; May 29.
Coupler. N. W. Storer. 1,456,945; May 29.
Coupling: *See*—
  Hose coupling.
Crate, Shipping. H. Michelsen. 1,456,674; May 29.
Cultivator. E. C. Harvey. 1,457,165; May 29.
Cultivator. W. A. Paul. 1,456,566; May 29.
Cultivator, Disk. C. E. White. 1,456,581; May 29.
Cup: *See*—
  Grease cup.
Current, Means for obtaining high momentary. C. F. Wagner. 1,456,955; May 29.
Curtain-light mounting. B. P. Donnelly. 1,456,724; May 29.
Cutter: *See*—
  Bayonet wire cutter. Boiler-tube cutter.
Cutter. O. Degrenier. 1,456,672; May 29.
Cylinder and the like, Spreader. A. Isherwood. 1,457,276; May 29.
Demand-limiting device. J. P. Fisher. 1,456,766; May 29.
Dental amalgam machine. A. G. Wright. 1,456,526; May 29.
Die head. V. R. Koontz. 1,456,805; May 29.
Die head, Self-opening. A. F. Breitenstein. 1,456,720; May 29.
Direction indicator, Electrical. H. Kageyama. 1,457,173; May 29.
Dish drainer. J. D. Judkins. 1,456,803; May 29.
Dishwashing machine. U. S. G. Welsh. 1,457,240; May 29.
Disk wheel. A. Benson. 1,456,965; May 29.
Ditching machine. J. S. Doremire. 1,456,588; May 29.
Doll. E. McCowan. Des. 62,433; May 29.
Door-lock keeper. F. Di Bella. 1,456,917; May 29.
Door, Sidewalk. M. J. Ross and G. T. Atkinson. 1,457,274; May 29.
Dough-mixing machine. E. E. O'Connell. 1,456,564; May 29.
Draft preventer. N. K. Caplan. 1,456,971; May 29.
Draft rigging. I. O. Wright. 1,457,278; May 29.
Draft rigging, Friction. G. B. Dorey. 1,456,974; May 29.
Draft rigging, Friction. J. F. O'Connor. 1,456,993; May 29.

Drapery-supporting device. E. R. Falkenberg. 1,456,789; May 29.
Drill: *See*—
Pneumatic drill. Well drill.
Dry materials, Apparatus for mixing. T. O. Partridge. 1,456,858; May 29.
Drying cabinet. C. L. M. Petersen. 1,456,711; May 29.
Dyestuffs and making same, Azo. A. L. Laska and A. Zitscher. 1,457,114; May 29.
Earth-working device. W. Turner. 1,456,860; May 29.
Educational device. L. L. Gallup. 1,457,223; May 29.
Electric discharge device. H. D. Arnold. 1,456,528; May 29.
Electric discharge device. W. A. Knoop and P. P. Cioffi. 1,456,505; May 29.
Electric drive mechanism. G. E. Hampton. 1,456,550; May 29.
Electric-furnace resistor. G. M. Little. 1,456,891; May 29.
Electric-furnace wall construction. G. M. Little. 1,456,893; May 29.
Electric-light fixture. M. H. Thurnauer. 1,456,683; May 29.
Electric resistance furnace. G. M. Little. 1,456,890; May 29.
Electric waves, Receiving system for. L. Levy. 1,457,069; May 29.
Electrical conductors, Suspension clamp for. B. A. Plimpton. 1,456,932; May 29.
Electrical-connector forming tool. J. Lake, jr. 1,456,928; May 29.
Electrical distribution system. E. B. Birch. 1,457,052; May 29.
Electrical heating unit. P. Bergeon. 1,456,755; May 29.
Electrical instruments, Dial for. V. H. Meyer. 1,456,644; May 29.
Electrical protector. G. W. Janson and L. H. Rovere. 1,457,249; May 29.
Electrode protector, Telescoping. G. M. Little. 1,456,894; May 29.
Electrode-supporting device. W. G. Houskeeper. 1,456,504; May 29.
Electrolytic apparatus and other purposes, Tank or vessel for. R. D. Mershon. 1,456,901; May 29.
Electrolytic cell. J. Slepian. 1,456,941; May 29.
Elevator hoist. H. A. Davis and P. S. Newcomer. 1,457,021; May 29.
Engine: *See*—
Combustion engine. Rotary engine.
Internal-combustion engine.
Engine indicator. H. D. Geyer. 1,456,847; May 29.
Engine preheater. J. Good. 1,456,980; May 29.
Engine starter. W. L. McGrath. 1,457,118; May 29.
Engines, Cooling device for internal-combustion. J. B. Simler. 1,457,005; May 29.
Engines, Gas generator for internal-combustion. N. Leisten and C. Senn. 1,456,986; May 29.
Engines, Manifold for gasoline. P. Samuels. 1,457,003; May 29.
Engines, Means for controlling the supply of mixture to internal-combustion. G. Keith and W. A. Whatmough. 1,456,604; May 29.
Engines, Spray carburetor for internal-combustion. B. Adler. 1,457,134; May 29.
Envelope-making machines, Elevator-control mechanism for. A. E. Angustine. 1,456,665; May 29.
Expanding machine. C. G. Grotnes. 1,456,734; May 29.
Fan. F. L. Cupp. 1,456,765; May 29.
Fan. C. Rosire. 1,457,125; May 29.
Fastener. B. F. Hubbell. 1,456,554–5; May 29.
Fastening device. E. G. Lehman. 1,457,039; May 29.
Felting machine. T. B. Munroe. 1,456,608; May 29.
Fence, Sectional. I. M. Semenoff and N. Gurnicki. 1,456,519; May 29.
Fertilizer, Preparing a concentrated. W. Hazen and W. H. Ross. 1,456,850; May 29.
File teeth on curved surfaces, Machine for cutting. F. F. Sorensen and W. D. Craft. 1,457,091; May 29.
Filing equipment. J. T. Quigley. 1,456,677; May 29.
Filing rack. Z. Auerbach. 1,457,136; May 29.
Filling and capping machine. M. Goldberger. 1,456,690; May 29.
Film-guiding device. G. W. Noyes. 1,456,821; May 29.
Filter, Gasoline. H. A. Deeks. 1,456,883; May 29.
Fire-box-arch construction. G. C. Denney. 1,456,628; May 29.
Firearm, Automatic. U. A. Margn. 1,456,811; May 29.
Fish scaler. J. J. Barry. 1,456,666; May 29.
Fishing tool. A. L. Bell and T. E. Raines. 1,457,139; May 29.
Float ball. P. J. Brewington. 1,457,055; May 29.
Floor heater. B. F. Caldwell. 1,457,056; May 29.
Floor surfacer. E. B. Gunther. 1,457,224; May 29.
Flotation machine. T. A. Janney. 1,457,077; May 29.
Fluids, Electric heater for. C. T. Penton. 1,456,907; May 29.
Fly swatter. A. K. Ancker and R. F. Morton. 1,456,753; May 29.
Flying-machine safety device. J. C. Sherry. 1,457,044; May 29.
Follower and ironing board, Combined. H. W. Rountree. 1,456,832; May 29.
Food-grinding machine. D. M. Rieman. 1,456,651; May 29.
Forging. W. Hughes. 1,456,597; May 29.
Fork. L. W. Busch. 1,456,913; May 29.
Form clamp, Adjustable. G. E. Greenwood. 1,456,849; May 29.
Foundation pedestal, or pier. J. M. FitzGerald. 1,456,499; May 29.
Fountain: *See*—
Soda fountain.
Frame making. F. A. Fuller. 1,456,845; May 29.
Frames, Holder for canvas stretcher. O. Anderson. 1,456,861; May 29.
Fruit, Apparatus for the sizing and distribution of. E. M. Brogden. 1,457,143; May 29.
Fruit-jar holder. J. S. Buckwalter. 1,456,671; May 29.
Fruit, Method of and apparatus for automatically cleaning, scalding, and peeling. A. I. Du Pont and H. R. Harding. 1,457,218; May 29.
Fruits and vegetables of all kinds, especially potatoes, Machine for cutting up. H. Barbey. 1,457,137; May 29.
Fuel economizer. W. G. Griffin. 1,456,691; May 29.
Fuel-feeding device. W. Sparks. 1,457,286; May 29.
Fuel-retarding member. H. A. Poppenhusen. 1,456,648; May 29.
Fur-pelt stretcher. C. B. Corbin. 1,456,764; May 29.
Furnace: *See*—
Electric resistance furnace. Retort furnace.
Heating furnace.
Furnace. P. J. Nutting and H. W. Hayward. 1,456,992; May 29.
Furnaces, Apparatus for charging or discharging. M. Van Marle. 1,456,837; May 29.
Furnaces, Ledge-plate and water-box mountings for. H. A. Poppenhusen. 1,456,649; May 29.
Furnaces, Protected electrode for electric. G. M. Little. 1,456,892; May 29.
Furnaces, Terminal for electric. P. H. Brace. 1,456,865; May 29.
Furnaces, Water box for. H. A. Poppenhusen. 1,456,650; May 29.
Fuse, Shell. O. D. Lucas. 1,456,641; May 29.
Garage door. A. McCulloch. 1,456,895; May 29.
Garment, Reducing. B. Cervelli. 1,457,147; May 29.
Garment-supporting structure, Endless-carrier. J. T. Batts. 1,456,963; May 29.
Garter. H. H. Taylor and M. B. Hammond. 1,456,948; May 29.
Gas and distillation gases into gasoline and other constituents, Separation of natural. A. von Groeling. 1,456,953; May 29.
Gas burner. J. B. Anderson. 1,456,754; May 29.
Gas-control system, Safety. C. Schuck, jr., and G. Layer. 1,457,127; May 29.
Gas meter, Portable. J. W. Chadwick. 1,456,621; May 29.
Gas welding plants, Safety device for. C. Fregonara. 1,457,059; May 29.
Gasoline tank. C. Johnson. 1,457,065; May 29.
Gauge: *See*—
Pressure gauge.
Gear, Progressive change-speed. C. E. Henriod. 1,457,062; May 29.
Gear puller. G. L. Hunt. 1,456,735; May 29.
Gear-shifting mechanism. J. S. Alspaugh. 1,456,496; May 29.
Gearing, Resilient. C. W. Luhr. 1,456,700; May 29.
Gearing unit, Transmission. P. V. Troupe. 1,457,236; May 29.
Gin-rib mounting, Linter. T. M. Jones. 1,457,172; May 29.
Glide, Pavement. W. O. Carley. 1,456,881; May 29.
Globe holder and reflector, Combined. C. L. Fitchet. 1,457,058; May 29.
Glove. J. V. Sullivan. 1,456,580; May 29.
Governor, Constant-flow. C. R. Houghton. 1,457,074; May 29.
Grappling device. A. B. Utley. 1,457,198; May 29.
Grappling tool. R. E. Smith. 1,456,943; May 29.
Grate construction. C. A. Shively. 1,456,835; May 29.
Grate, Sectional water. H. F. Morris. 1,456,521; May 29.
Grate shaker, Furnace. O. P. Nystrom. 1,456,707; May 29.
Grater. J. I. Robin. 1,457,228; May 29.
Gravity-correction device. W. R. Hounsell. 1,456,926; May 29.
Grease cup. B. S. Lewis. 1,456,888; May 29.
Grinder. C. H. Stanfield. 1,457,092; May 29.
Grip, Clothesline. H. H. Podjus. 1,456,712; May 29.
Gun, Machine. A. T. Dawson and G. T. Buckham. 1,456,625–6; May 29.
Gypsum, Making plastic. R. E. Haire. 1,457,161; May 29.
Gyroscopes, Controlling mechanism for stabilizing. H. L. Tanner. 1,456,744; May 29.
Hair-bobbing device. P. A. McLaughlin. 1,457,257; May 29.
Hair curler. P. Sinclair. 1,457,191; May 29.
Hair curler. J. O. Winks. 1,457,099; May 29.
Hair, Process and apparatus for permanent undulation of. P. F. M. Robbin. 1,456,830; May 29.
Hairpin. J. B. Dobschutz. 1,456,541; May 29.
Halogenated products, Making. B. E. Eldred. 1,456,590; May 29.
Hammer. A. E. Horman. 1,457,168; May 29.

Hammer. G. P. Lucas. 1,456,987; May 29.
Handbag. J. Sims. Des. 62,436; May 29.
Hanger: *See*—
Pipe hanger.
Hardness of materials, Machine for testing. D. C. Davis. 1,457,214; May 29.
Harrow, Disk. R. H. Griffith. 1,457,280; May 29.
Harrow, Disk. F. C. Warne. 1,457,277; May 29.
Harvester, Corn. J. E. and A. C. Reece. 1,456,569; May 29.
Headlight lens. L. Bell. 1,456,585; May 29.
Headlight turner, Automatic. M. J. Canavan. 1,457,146; May 29.
Heater: *See*—
Floor heater. Oil heater.
Heater. B. B. Kahn. 1,457,078; May 29.
Heater and the like. R. Fehrenbach. 1,456,725; May 29.
Heating device, Electrical. M. M. Kohn. 1,456,878; May 29.
Heating furnace, Billet. N. F. Egler. 1,456,788; May 29.
Heating systems, Equalizing vent valve for vapor. C. A. Fuller. 1,456,688; May 29.
Helmet. F. D. Waldron. 1,456,524; May 29.
Hinge. E. O. Roberts and R. F. Dotsch. 1,456,574; May 29.
Hinge, Locking. K. O. Gober. 1,456,886; May 29.
Hinges and other like articulated articles, Production of. G. W. Berry. 1,456,862; May 29.
Hitching and tethering device. E. J. Delbridge. 1,456,627; May 29.
Holder. H. L. Johnson. 1,457,250; May 29.
Hook and link, Logging. L. E. Parker. 1,456,931; May 29.
Hose coupling. E. Bylund. 1,456,761; May 29.
Hydrocarbon burner. W. R. Park. 1,457,000; May 29.
Hydrocarbon vaporizer and burner. E. Meltzer. 1,456,900; May 29.
Ice-cream cabinet. G. H. Eccles. 1,456,920; May 29.
Images, Method and apparatus for producing distorted. G. L. Chanler. 1,457,209; May 29.
Incubators, Egg-turning means for. G. C. and C. Kitchen. 1,456,559; May 29.
Indicator: *See*—
Direction indicator. Traffic-signal indicator.
Liquid-level indicator.
Injector. E. Blauhorn. 1,457,140; May 29.
Ink distributor. D. V. Kaufman. 1,457,252; May 29.
Internal-combustion engine. G. J. Carter and L. G. McFarlane. 1,457,019; May 29.
Internal-combustion engine. H. F. Gawne. 1,456,976; May 29.
Internal-combustion engine. W. F. Thomas. 1,456,655; May 29.
Internal-combustion-engine system. J. Good. 1,456,979; May 29.
Iron: *See*—
Soldering iron.
Iron and recovering metals from such solutions, Purifying solutions of. D. Belcher and F. A. Eustis. 1,456,615; May 29.
Ironing board, Collapsible. A. L. Wagstaff. 1,456,661; May 29.
Jack: *See*—
Lifting jack.
Jack holster. H. V. Souders. 1,457,195; May 29.
Jack prop. S. L. Buchanan and F. J. Lytton. 1,457,145; May 29.
Jar lifter. J. L. Kivlan. 1,456,698; May 29.
Joint: *See*—
Rail joint. Universal joint.
Jewel setting. S. Stein. 1,457,196; May 29.
Keyhole guard. H. Brown. 1,457,017; May 29.
Keyless lock. W. Biczak. 1,456,530; May 29.
Key lock. D. M. Bell. 1,456,584; May 29.
Knitting machines, Detector and stop-motion means for. K. Howle and W. O. Taylor. 1,456,553; May 29.
Ladder, Extension. R. S. Bolger. 1,457,100; May 29.
Ladder, Pruning. S. J. Mitchell, A. D. Gabbert, and J. W. Blatter. 1,456,813; May 29.
Lamp filament and support. A. S. Volpian. 1,457,239; May 29.
Lamp, Multiple filament. G. E. Quandt. 1,456,568; May 29.
Lamps, Cable terminal for arc. T. F. Uhlemann. 1,456,746; May 29.
Lathe headstock and feed mechanism with rapid traverse. W. E. Ward. 1,457,095; May 29.
Leather, Machine for spraying. J. D. Chapman. 1,456,783; May 29.
Lever slot closure. P. J. McCloskey. 1,457,082; May 29.
License-plate holder, tail light, and parking light. J. Benjamin. 1,457,206; May 29.
Lifter: *See*—
Jar lifter.
Lifting apparatus. A. E. Starik. 1,457,009; May 29.
Lifting jack. C. S. Pillsbury and L. S. Sims. 1,456,827; May 29.
Lighting fixture. E. F. Guth. 1,457,061; May 29.
Link, Fusible. W. H. Baker. 1,456,686; May 29.
Liquid and gaseous fuel burner. M. Collman. 1,456,785; May 29.
Liquid-level indicator. H. Lundquist. 1,456,701; May 29.
Liquid vapor from a gaseous carrier, Operation employed in extracting. C. C. Reed. 1,456,570; May 29.
Liquids, Conveyance of highly-inflammable. J. Muchka. 1,456,820; May 29.
Liquids, Method of and apparatus for concentrating. I. Hechenbleikner and T. C. Oliver. 1,456,874; May 29.
Lixiviation apparatus, Automatically-acting. G. Haglund. 1,456,592; May 29.
Loading and unloading apparatus. B. P. Bratt. 1,457,054; May 29.
Lock: *See*—
Alarm lock. Keyless lock.
Automobile exhaust lock. Permutation lock.
Car-door lock. Thumb lock.
Key lock.
Lock. A. Kendechy. 1,457,253; May 29.
Lock. H. G. Voight. 1,456,838; May 29.
Locking device. G. Hazlett and C. H. Mitchell. 1,457,029; May 29.
Locking device, Safety. W. Kool. 1,456,852; May 29.
Locomotive. A. Macchioni and E. Hocke. 1,456,810; May 29.
Locomotive-fire-box structure. L. Parish. 1,456,710; May 29.
Locomotives, Coupling for equalizing apparatus for. G. C. Abbe. 1,457,132; May 29.
Locomotives, Metallic signal for. L. L. Hoffman. 1,456,777; May 29.
Lug, Switch. D. A. Pickens. 1,457,266; May 29.
Lumber carrier. C. F. Gerlinger. 1,457,025; May 29.
Machine-table-reversing mechanism. G. Brown and A. Turner. 1,456,968; May 29.
Magnesium, Making. G. Hutchinson. 1,457,225; May 29.
Mandrel and straightening press. J. G. Collins. 1,457,020; May 29.
Manifolds, Hot-air supply to intake. F. W. Schramm. 1,457,043; May 29.
Map and operating mechanism therefor, Tourist. H. E. Wilder. 1,456,662; May 29.
Map case. W. A. Hanses. 1,457,026; May 29.
Marking and measuring machine, Strip. F. J. Chapman and J. F. Brennan. 1,456,763; May 29.
Mat. W. L. Bockover and J. W. McNamara. 1,457,141; May 29.
Match box, Self-closing. R. Gonzalez. 1,457,275; May 29.
Match dispenser, Single. A. Abbaticchio. 1,457,050; Jan. 29.
Matchers and the like, Side-head construction for. C. W. H. Blood and C. G. Osteman. 1,456,864; May 29.
Mattress. S. J. Wick. 1,457,203; May 29.
Measuring device. R. W. Thompson. 1,456,745; May 29.
Measuring instrument. F. W. Roller. 1,456,517; May 29.
Meat holder. W. F. H. Braun. 1,456,866; May 29.
Meat mold. O. M. Wolff. 1,456,958; May 29.
Merchandise, Machine for measuring and delivering loose. J. D. Lane and J. Macnaughton. 1,457,038; May 29.
Metal border strip or similar article of manufacture. D. Stoll. Des. 62,437; May 29.
Metals, Joining. T. Midgley, jr. 1,456,855; May 29.
Metals, Method of and apparatus for treating. R. F. Trimble. 1,456,523; May 29.
Meter: *See*—
Gas meter.
Milling machine. J. E. Bergström. 1,456,756; May 29.
Mining and quarrying machine. C. S. Oldroyd. 1,456,930; May 29.
Mining machine. E. C. Morgan. 1,456,991; May 29.
Mine, Sea. E. Osegovic. 1,456,646; May 29.
Mixing machine. J. E. Kennedy. 1,456,877; May 29.
Mold: *See*—
Meat mold.
Molding machine. P. Dhé. 1,457,216; May 29.
Mold-material-projecting machine. E. P. Laugworthy. 1,457,113; May 29.
Monolithic building. C. J. M. Lancette. 1,456,806; May 29.
Mop, Floor and wall. J. F. Kelly. 1,456,696; May 29.
Motor-cycle attachment. C. S. Williams. 1,457,241; May 29.
Motor protector. G. C. Willis. 1,456,663; May 29.
Motors, Assembling middle bearings for internal-combustion. A. H. Leipert. 1,457,115; May 29.
Motors, Attachment for internal-combustion. W. B. Young. 1,456,527; May 29.
Music sheet, Attachment for. M. M. Brown. 1,456,670; May 29.
Necktie-knot-forming device. P. Crause. 1,456,622; May 29.
Necktie, Reversible. H. Berkson. 1,456,757; May 29.
Number-indicating system. A. E. Lundell and T. van Amstel. 1,456,508; May 29.
Odometer. J. K. Olsen. 1,456,513; May 29.
Oil heater. I. Putnam. 1,456,609; May 29.
Oil burner. F. Hardinge. 1,456,799; May 29.
Oil burner. A. G. Mather. 1,456,890; May 29.
Oil burner. N. J. Warren and W. C. Smith. 1,457,096; May 29.
Oil well. J. N. Hicks, C. A. Elliott, and P. Dunbar. 1,456,693; May 29.

Oils, Refining hydrocarbon. H. M. Lasher. 1,457,068; May 29.
Oils, Refining vegetable. C. H. Hapgood and G. F. Mayo. 1,457,072; May 29.
Ore classifier. A. Noriega. 1,456,563; May 29.
Ores containing galena, Treating. N. C. Christensen. 1,456,784; May 29.
Ores, Extraction of lead from sulphide. W. H. Hannay. 1,456,798; May 29.
Organ stop action, Combination. J. T. Austin. 1,456,612; May 29.
Overload device. H. E. Frost. 1,457,109; May 29.
Packages, System for distributing. J. R. Alexander. 1,457,204; May 29.
Packaging device. G. A. Robinson. 1,456,576; May 29.
Packaging machine. W. B. Engler. 1,456,542; May 29.
Packing case. R. Wood and C. Garrett. 1,456,582; May 29.
Packing device, Gauze. E. M. Pistor. 1,456,828; May 29.
Pad: *See*—
Writing pad.
Pail, Compartment. A. Twigg. 1,456,951; May 29.
Painting device. A. Rapisardi. 1,456,910; May 29.
Paper cabinet, Toilet-. C. Fisher. 1,456,790; May 29.
Paper cards, envelopes, etc., Mechanism for feeding. H. C. Gammeter. 1,457,158; May 29.
Paper clip. C. E. Potter. 1,457,042; May 29.
Paper container. C. B. McGrath. 1,456,897; May 29.
Paper-feeding apparatus. R. J. Thompson and R. S. Dalton. 1,457,094; May 29.
Paving mixtures, Testing bituminous. F. S. Besson. 1,457,015; May 29.
Peeling machine. C. F. Smith. 1,457,007; May 29.
Pen or pencil attachment. F. De Luca. 1,456,786; May 29.
Pencil. H. H. Welch. 1,457,011; May 29.
Permutation lock. J. O. Wilson. 1,456,957; May 29.
Phonograph-amplifier mounting. V. Minnelli. 1,456,903; May 29.
Phonographs, Automatic record-transferring mechanism for. G. A. Behlen. 1,456,614; May 29.
Phonographs, Automatic stop and start for. P. M. Kree and F. Dauteuil. 1,457,036; May 29.
Photographic developing equipment, Apron for. J. W. C. Shipment. 1,457,045; May 29.
Photographic-film-drying apparatus. S. T. Michelsen. 1,456,902; May 29.
Photographic-print-washing machine. I. Pottruck and N. Shalit. 1,456,514; May 29.
Photographically reproducing pictures represented on curved surfaces. G. von Lücken. 1,456,954; May 29.
Photometer. F. E. Ives. 1,457,076; May 29.
Picker: *See*—
Cotton picker.
Picture apparatus, Motion-. E. G. Whitmore. 1,457,012; May 29.
Picture machines, Coupled light dissolver for motion-. R. N. Fleming. 1,456,544; May 29.
Pie-cutting device. J. J. Slovacek. 1,457,233; May 29.
Pipe. J. A. Chambers. 1,456,762; May 29.
Pipe connection or boot. A. G. Scherer. 1,457,126; May 29.
Pipe hanger. J. B. Estep. 1,457,106; May 29.
Pipe lines, Neck or nozzle connection for. H. Mitchell. 1,457,183; May 29.
Pipe-threading machines, Attachment for. H. Lynch. 1,456,853; May 29.
Pipe, Tobacco. M. Schiers. 1,457,189; May 29.
Pipes and similar containers, Manhole for. F. E. Johnson, jr. 1,456,601; May 29.
Piston. A. M. Franchi. 1,456,727; May 29.
Piston. A. E. Osborn. 1,456,708; May 29.
Piston rings, Mechanism for making. H. A. Heckmann. No. 1,456,925; May 29.
Planer. J. E. Lehman. 1,456,739; May 29.
Planter and fertilizer distributor, Combined. F. B. Roubique. 1,457,230; May 29.
Plaster and making the same. P. E. Haynes and G. P. Gerfin. 1,456,924; May 29.
Plaster board. R. N. Jensen. 1,456,599; May 29.
Plastic materials, Machine and process for manufacturing articles from. C. R. Nichols. 1,457,185; May 29.
Plate, Composite. L. T. Frederick. 1,456,884; May 29.
Platform, Cast-steel. H. L. Ingersoll. 1,456,802; May 29.
Plow, Drain. L. Rinehart. 1,457,271; May 29.
Plowdisk-sharpening machine. C. T. Grove. 1,457,159; May 29.
Plowfoot adjuster. L. A. Pannell. 1,456,647; May 29.
Plug, Connecting. W. E. Riecken. 1,456,516; May 29.
Plug holder. E. J. Strout. 1,457,234; May 29.
Pneumatic brake. A. and H. Schauer. 1,456,578; May 29.
Pneumatic drill. W. Mable. 1,457,181; May 29.
Pneumatic tube. M. Rebollar y Plancht. 1,456,567; May 29.
Polishing composition. F. F. Kuhn. 1,457,080; May 29.
Pool tables, Register for. P. T. Griffin. 1,456,795; May 29.
Portable table, Folding. E. O. Roberts and R. F. Dotsch. 1,456,573; May 29.
Potassium phosphate, Commercial preparation of. W. H. Ross and W. Hazen. 1,456,831; May 29.
Poultry-plucking device. N. I. De Bie. 1,456,844; May 29.
Powder box, Face-. T. J. Newlyn. Des. 62,434; May 29.
Power plant. H. Ebert. 1,456,919; May 29.
Power-generating system, Electric. A. M. Rossman. 1,456,652; May 29.
Power tile press. E. W. Zeh. 1,456,752; May 29.
Preheater. J. I. Richey. 1,456,572; May 29.
Press: *See*—
Mandrel and straightening press.
Power tile press.
Printing press.
Rail-straightening press.
Vulcanizing press.
Press. L. E. Peck. 1,457,265; May 29.
Pressure gauge, Differential. H. P. Westcott. 1,457,201; May 29.
Priming device. C. H. and P. J. Jorgensen. 1,457,033; May 29.
Printing. J. H. Sheffield. 1,456,834; May 29.
Printing and duplicating. D. Gestetner. 1,456,794; May 29.
Printing plate, Marginal. L. A. Schmidt. 1,456,936; May 29.
Printing plates, Marginal. L. A. Schmidt. 1,456,518; May 29.
Printing press. U. Kawasaki. 1,457,034; May 29.
Propeller. W. R. McDonald. 1,456,896; May 29.
Propellers, Manufacture of air. E. L. Müller. 1,456,512; May 29.
Puller: *See*—
Gear puller.
Stump puller.
Pulley. W. W. Yale. 1,457,130; May 29.
Pulley, Metal. H. J. Gilbert. 1,457,071; May 29.
Pulverizing apparatus. W. L. McLaughlin. 1,457,084; May 29.
Pump. M. P. Ferrer. 1,457,220; May 29.
Pump. L. L. Ingraham. 1,456,694; May 29.
Pump, Centrifugal. J. D. Noland. 1,456,906; May 29.
Pump construction, Well-. G. W. Price and C. F. Zimansky. 1,456,714; May 29.
Pump, Displacement. F. Gardner. 1,456,885; May 29.
Pump, Governing fuel. A. F. Christmas. 1,456,972; May 29.
Rack: *See*—
Filing rack.
Radiator: *See*—
Automobile radiator.
Radiator protector. T. H. Welch. 1,456,749; May 29.
Radiators, Air circulator and humidifier for. R. W. Menk. 1,456,607; May 29.
Radius rod, Front. M. W. Link. 1,456,740; May 29.
Rail joint. W. H. McNeil. 1,457,085; May 29.
Rail-straightening press. J. S. Dayton. 1,457,215; May 29.
Rails or the like after rolling, Cooling. C. Stenbol. 1,456,944; May 29.
Railway brake head. T. Elliott. 1,456,632; May 29.
Railway crossing. B. E. Wilson. 1,456,751; May 29.
Railway crossing with renewable centers. W. G. Nichols. 1,456,857; May 29.
Railway spike. W. H. Steffee. 1,456,682; May 29.
Railway switch. M. Robinson. 1,457,229; May 29.
Railways, Electric safety system for. J. Skinderviken. 1,457,192; May 29.
Range, Gas. H. W. O'Dowd. 1,456,822–3; May 29.
Ratchet hand tool. J. M. Hargrave. 1,456,692; May 29.
Reamer. C. A. Kell. 1,457,174; May 29.
Receptacle and lock therefor. G. H. Reimer. 1,457,002; May 29.
Reel: *See*—
Clothesline reel.
Recording apparatus. C. A. Hoxie. 1,456,595; May 29.
Register: *See*—
Autographic register.
Repairing tool, Axle-bearing-. J. J. McGuckin. 1,457,119; May 29.
Retort furnace. C. V. McIntire. 1,457,083; May 29.
Ring: *See*—
Twister ring.
Watch ring.
Rivet, Self-anchoring. R. S. Smith. 1,457,008; May 29.
Road machine. K. Christenson. 1,456,882; May 29.
Rod: *See*—
Radius rod.
Rodent trap. W. H. Goss. 1,456,981; May 29.
Rods, Device for babbitting connecting. C. Erickson, jr. 1,456,634; May 29.
Rope clamp. C. Beecken. 1,457,051; May 29.
Roller: *See*—
Take-up and adjustable roller.
Rotary engine. M. B. Kato. 1,456,603; May 29.
Roundabout. J. E. Kotlik. 1,457,035; May 29.
Rubber rollers, Apparatus for making. S. E. Schroeder. 1,457,290; May 29.
Rule, Tailor's. E. A. Gruber. 1,456,547; May 29.
Sack holder. E. Taylor. 1,457,047; May 29.
Sample case. T. B. Bartels. 1,456,613; May 29.
Sanitary seat cover. I. D. Wilder. 1,456,685; May 29.
Sawing machine, Quarter-. R. T. Rush. 1,456,912; May 29.
Scaffold and roof bracket. J. B. F. Showalter. 1,456,940; May 29.
Scaffold bracket. F. J. Kestner. 1,457,066; May 29.
Scale, Spring. W. S. Smith. 1,457,194; May 29.

Scraper, Subgrade. E. G. Carr. Re15,615; May 29.
Screening apparatus. H. P. Hoyle. 1,456,801; May 29.
Screw thread, Instrument for testing and comparing the lead of a. A. W. Schoof. 1,456,938; May 29.
Seat. E. P. Harley. 1,457,245; May 29.
Seed sower. M. Schling. 1,456,653; May 29.
Selenium crystal and preparing same. F. C. Brown. 1,456,532; May 29.
Separator: *See*—
Air separator.
Separating materials, Method and apparatus for. J. A. Rice. 1,456,934; May 29.
Sewage and the like, System for the treatment of. J. A. Coombs. 1,456,914; May 29.
Sewing machine, Shoe-. S. A. Dobyne. 1,457,022; May 29.
Shackle. R. G. Pilkington. 1,457,001; May 29.
Sharpener, Automatic pencil. H. M. Mitchell. 1,456,904; May 29.
Sharpener, Cutlery. W. L. Hornke. 1,457,073; May 29.
Sharpening machine. C. M. Huff. 1,457,064; May 29.
Shears, Flesh-cutting. C. I. Lagier. 1,456,639; May 29.
Sheep protector. R. Murray. 1,456,706; May 29.
Sheet metal and plates with turned-up outer edges, Press for manufacturing. K. Böhle. 1,456,586; May 29.
Shipping purposes, Individual recording device for. W. H. Becker. 1,456,583; May 29.
Shock absorber. H. A. Toulmin, jr. 1,456,657; May 29.
Shock absorber, Variable-action. H. R. Mitchell. 1,456,856; May 29.
Shock absorber. A. C. Ree. 1,457,122; May 29.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,456,994–5; May 29.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,456,998–9; May 29.
Shoe. J. F. Jonas. 1,456,695; May 29.
Shoe cleaner and scraper. J. N. Robertson. 1,456,575; May 29.
Shoe-heel stiffener. W. M. Courson. 1,456,915; May 29.
Shoe stretcher. J. Schwind. 1,457,283; May 29.
Shoes or the like, Insole for. L. E. Clark. 1,456,843; May 29.
Shot-firing device. H. Neal. 1,457,262; May 29.
Shovel attachment. T. Newman. 1,456,879; May 29.
Sign. F. H. Loveless. 1,457,255; May 29.
Sign, Permutation illuminated. L. A. Graham. 1,456,982; May 29.
Signal: *See*—
Automobile signal.
Automobile direction signal.
Traffic signal.
Signal. G. Daniels. 1,457,057; May 29.
Signal. J. D. Puterbaugh. 1,457,267; May 29.
Slaughterhouse construction. C. Pancero and J. Freund. 1,456,709; May 29.
Sludge acids and separated sludge acids, Treating. I. Hechenbleikner and F. J. Bartholomew. 1,457,030; May 29.
Smoker's accessory. T. C. Erskine. 1,457,154; May 29.
Soap cakes, Apparatus for applying paraffin to. G. A. Dostal. 1,457,217; May 29.
Soap holder. M. B. Loeb. 1,457,254; May 29.
Soda fountain. S. H. Knight. 1,457,067; May 29.
Sodium-silico fluoride, Making. H. Howard. 1,456,594; May 29.
Soil, Apparatus for treating. W. E. Crane. 1,457,210; May 29.
Soil-coring tool. C. C. Hansen. 1,456,983; May 29.
Soldering iron, Electric. F. W. Borton. 1,456,760; May 29.
Sorting machine. H. M. Gleason. 1,456,546; May 29.
Sound, Device for producing or reproducing. C. H. Hulbert. 1,457,075; May 29.
Sound-reproducing machines, Amplifier for. P. Raddis. 1,456,678; May 29.
Sound transmitter. P. V. Rooney. 1,456,742; May 29.
Speed device, Variable. J. H. Brimson. Re15,614; May 29.
Spittoon and waste flush. C. E. Bowles. 1,457,053; May 29.
Spring clasp. A. S. Fridolph. 1,456,793; May 29.
Spotlight. C. L. Madden. 1,457,120; May 29.
Station for subterraneous passageways, Safety. G. M. Lowe. 1,456,808; May 29.
Stitching-machine guard. T. C. Guseman. 1,456,548; May 29.
Stocking. W. Scott, jr. Des. 62,435; May 29.
Stool, Foldable. S. Zeikay. 1,456,840; May 29.
Stone, cement, or the like, Manufacture of artificial. H. Berry. 1,456,667; May 29.
Stone furniture, etc., Mold forms in pairs of combinative assembled forms for making of artificial. C. F. Straubaugh. 1,456,947; May 29.
Stoves and ranges, Fuel-saving device for domestic. A. Mansfield. 1,456,898; May 29.
Stoves, Multiple-hole top for burner. E. W. Rogers. 1,457,188; May 29.
Stump puller, Two-speed power. K. Evertz. 1,456,872; May 29.
Stylus mounting. T. A. Edison. 1,456,687; May 29.
Sweater. L. Strauss. Des. 62,438; May 29.
Switch: *See*—
Railway switch.
Switch. R. S. Tower. 1,456,950; May 29.
Swiveling support. G. C. Hosch. 1,457,063; May 29.
Syringe, Hypodermic. A. E. Smith and A. D. Gray. 1,456,717; May 29.
Table: *See*—
Auto table.
Portable table.
Table and stool set, Folding camp. B. F. Orear. 1,457,041; May 29.
Table attachment, Operating-. G. C. Taplin. 1,457,093; May 29.
Tag holder for vehicles, Illuminated-license-. M. F. Kane. 1,456,736; May 29.
Take-up and adjustable roller. L. V. Fraley. 1,456,726; May 29.
Talking machines, Automatic stop mechanism for. A. Ebner. 1,456,589; May 29.
Tandem allotting system. A. E. Lundell. 1,456,507; May 29.
Tank cap. J. A. Rensoner. 1,457,088; May 29.
Telegraph system, Duplex. E. A. Hudson. 1,456,556; May 29.
Telegraphy, Printing. H. A. Burgess. 1,456,534; May 29.
Telephone-exchange system. E. H. Clark. 1,456,537; May 29.
Telephone system. E. H. Clark. 1,456,536; May 29.
Telephones, Desk stand for hand. O. M. Glunt. 1,456,501; May 29.
Telephones, Receiver for. V. C. Crites. 1,457,211; May 29.
Tennis-court marker. J. B. Haller. 1,457,163; May 29.
Tent, Folding. B. B. Dudley. 1,456,918; May 29.
Textile machines, Thread guide for. F. Cass. 1,457,208; May 29.
Thermal ammeter. W. N. Goodwin, jr. 1,456,591; May 29.
Thread-tension-measuring device. J. Hugentobler. 1,456,596; May 29.
Thumb lock. A. Gamwell. 1,456,846; May 29.
Tin-plate branning and cleaning machine. W. N. Durbin. 1,456,629; May 29.
Tire container, Spare-. C. S. Baker. 1,456,962; May 29.
Tire, Cushion pneumatic. A. J. Hicks. 1,456,775; May 29.
Tire, Pneumatic. W. E. Powers and M. F. Hannigan. 1,456,908; May 29.
Tire protector. C. Ratelle. 1,456,820; May 29.
Tire pump. H. J. Boosted. 1,456,719; May 29.
Tire, Resilient. A. Benson. 1,456,966; May 29.
Tire, Single-tube bicycle. A. K. Trenholme. 1,457,287; May 29.
Tires, Antiskidding device for dual. W. Lion. 1,457,116; May 29.
Tires, Protective tread for pneumatic. W. J. Fraser. 1,456,729; May 29.
Tongs, Lifting. E. J. Connor and A. R. Ralston. 1,457,104; May 29.
Tool holder. J. Henning. 1,456,552; May 29.
Toothbrush. M. H. Cartwright. 1,456,535; May 29.
Torch. J. R. McKellar. 1,457,256; May 29.
Towel and garment holder. J. J. Hayes. 1,457,166; May 29.
Towing dolly. C. T. Jacobsen. 1,456,875; May 29.
Toy horse. A. S. Baker. 1,457,205; May 29.
Tractor. D. F. Geiger. 1,456,730; May 29.
Tractor. L. J. Mitchell. 1,456,905; May 29.
Tractor attachment. J. Q. Billings. 1,456,668; May 29.
Tractor, Wheeled. B. W. Morton. 1,456,816; May 29.
Tractor, Wheeled. B. W. Morton. 1,456,818; May 29.
Tractors, Colter attachment for. B. W. Morton. 1,456,819; May 29.
Tractors, Drive-wheel construction for. H. Krombein. 1,456,887; May 29.
Tractors, Hitch and clutch release device for. W. P. Stough. 1,457,046; May 29.
Tractors, Plow attachment for. B. W. Morton. 1,456,815; May 29.
Tractors, Plow attachment for. B. W. Morton. 1,456,817; May 29.
Traffic signal. B. A. Rexford. 1,457,269; May 29.
Traffic signal or indicator. A. C. Fowls. 1,456,923; May 29.
Translating apparatus. R. A. Heising. 1,456,503; May 29.
Transmission circuits. R. C. Mathes. 1,456,510; May 29.
Transmission, Fluid-controlled. A. J. Williams. 1,456,956; May 29.
Transmission-gear-shifting mechanism. A. G. Wagner. 1,457,199; May 29.
Transmitter. J. P. Minton. 1,456,511; May 29.
Transplanting device. H. D. Elliott. 1,456,921; May 29.
Trap: *See*—
Animal trap.
Rodent trap.
Trap. M. M. Moffitt. 1,456,676; May 29.
Tray and reflector, Aluminum dirt. F. F. Forshee. 1,456,873; May 29.
Truck and tractor, Combined. J. Rieder. 1,457,270; May 29.
Truck, Motor. B. O. Vollendorf. 1,456,747; May 29.
Tube-bending machine. J. F. Jackson. 1,456,598; May 29.
Tubes, Closure for. C. J. Hawk, jr. 1,457,291; May 29.
Tubes, Energization and control of vacuum. H. E. Shreeve. 1,456,520; May 29.
Tubes, Machine for the manufacture of collapsible metal. J. A. McGinnis. 1,457,179; May 29.
Tubes, Making. W. H. Kempton. 1,456,876; May 29.

Turbine or centrifugal vacuum pump device. J. D. Mudge. 1,457,121; May 29.
Turbines, Governor for steam. C. W. Dake. 1,457,212; May 29.
Turnsole-fitting machine. A. E. Johnson. 1,456,600; May 29.
Typewriter. P. Richter. 1,456,741; May 29.
Typewriter, Automatic. T. D. Metropole and T. M. Cottakis. 1,456,560; May 29.
Typewriters, Line counter for. K. R. Jahn. 1,457,248; May 29.
Typewriters, Variable line spacer for. O. A. Hokanson. 1,456,778–9; May 29.
Typewriting machine. P. H. Burdick. 1,456,533; May 29.
Typewriting machine. E. E. Fowler. 1,457,107; May 29.
Typewriting machine. E. B. Hess and L. C. Myers. 1,457,167; May 29.
Typewriting machine. A. G. F. Kurowski. 1,456,637–8; May 29.
Twister ring. J. T. Hanton. 1,457,027; May 29.
Undergarment. Z. B. Moore. 1,456,814; May 29.
Universal joint. M. G. Dunseau. 1,457,219; May 29.
Universal-joint connecting rod. E. Rosenthal. 1,456,577; May 29.
Upholstering, Apparatus for finishing. H. T. Thomas. 1,457,197; May 29.
Vaccine and preparing same. E. R. Whitmore. 1,457,097; May 29.
Vacuum cleaners, Cord holder for. T. B. Richardson. 1,456,935; May 29.
Vacuum-tube-electrode assembling jig. W. J. Leveridge. 1,456,506; May 29.
Valve. J. D. Smith. 1,456,942; May 29.
Valve, Automatic steam stop. W. B. Stork. 1,456,946; May 29.
Valve, Blow-off. W. A. Kitts, jr. 1,456,697; May 29.
Valve device for hose reels. J. B. McMullin. 1,457,180; May 29.
Valve, Drifting. H. L. Roberts. 1,457,272; May 29.
Valve, Filling. T. McGhee and P. Woodhead. 1,456,854; May 29.
Valve for water-closet tanks, Outlet. A. A. Carson. 1,457,018; May 29.
Valve, Pressure-reducing. E. Webb. 1,457,049; May 29.
Valve, Quick-opening. J. H. Derby. 1,456,723; May 29.
Valve-refacing machine. H. G. Larsen and W. C. Redfield. 1,456,807; May 29.
Valve replacer. E. P. Kray. 1,457,175; May 29.
Vanity case. W. G. Kendall. 1,456,636; May 29.
Vaults, Mold for burial. R. Reming. 1,456,911; May 29.
Vegetables, etc., Washer for. O. S. Sells. 1,457,284; May 29.
Vehicle. L. W. Mallory. 1,456,989; May 29.
Vehicle body. A. L. Eaton and H. F. Vickers. 1,456,630; May 29.
Vehicle knuckles, Lubrication of automotive. G. W. Carlson. 1,456,618–9; May 29.
Vehicle, Passenger. G. J. Shave. 1,457,190; May 29.
Vehicle sash construction. J. McArthur. 1,457,178; May 29.
Vehicle tilting apparatus, Motor-. A. J. Holle. 1,456,593; May 29.
Vehicle wheel. F. O. Boswell. 1,457,142; May 29.
Vehicle wheel. A. G. Mass. 1,456,642; May 29.
Vehicle wheel. M. Van Meter. 1,456,952; May 29.
Vehicle wheel. W. G. Wilson. 1,457,013; May 29.
Vehicles, Auxiliary spring for motor. E. W. Little. 1,456,889; May 29.
Vehicles, Curtain-carrying attachment for. J. H. Boggess. 1,456,669; May 29.
Vehicles, Pneumatic suspension for wheeled. A. Galbraith. 1,457,157; May 29.
Vehicles, Resilient bumper for motor. A. M. Malluk and J. U. Korée. 1,457,259; May 29.
Vessel, Reenforced-concrete. J. T. Simpson. 1,457,006; May 29.
Vulcanizing press. C. E. Rett. 1,456,571; May 29.
Wall board made from bagasse and analogous fibers. J. K. Shaw. 1,457,285; May 29.
Washbasin attachment, Mouth. E. F. Brown. 1,456,841; May 29.
Washing machine, Rotary. F. Guay. 1,457,160; May 29.
Watch ring. H. Zweig and I. Schneiderman. 1,457,014; May 29.
Water heating and degasifying apparatus. W. S. Elliott. 1,457,153; May 29.
Water heating systems, Electro-heat-radiating device for. T. J. Blong. 1,456,863; May 29.
Water-power plant, Tidal-. A. Huguenin. 1,457,170; May 29.
Waterproof adhesives, Manufacturing. S. Butterman and C. K. Cooperrider. 1,456,842; May 29.
Wave conductor. M. I. Pupin. 1,456,909; May 29.
Weather strip. C. M. Eveleth. 1,456,633; May 29.
Weather strip, Metal. L. C. Zeich and R. H. G. Parker. 1,456,664; May 29.
Weighing device, Liquid-. W. G. and L. R. Finch. 1,457,279; May 29.
Weighing machine. H. D. Elfreth. 1,456,631; May 29.
Well drill. A. J. and H. J. Schepp. 1,456,681; May 29.
Well casings, Device for perforating oil-. E. M. Smith and R. E. Heidrich. 1,457,193; May 29.
Well plug. R. J. Crabbe. 1,457,148; May 29.
Wheel: *See* Disk wheel. *See* Vehicle wheel.
Wheels, Demountable rim for. W. L. Branstool. 1,457,016; May 29.
Wheels, Producing of cast-metal. G. Walther. 1,457,128; May 29.
Wheels, Traction shoe for. F. P. Girodo. 1,457,242; May 29.
Window, Vehicle. A. Bachle. 1,456,961; May 29.
Windshield wipers, Motor for. E. J. Hudson. 1,457,031; May 29.
Wireless impulses, Apparatus for the receipt of. F. Conrad. 1,456,867; May 29.
Wood, Treating. G. F. Lyon. 1,456,809; May 29.
Wrench. G. W. Cary. 1,456,620; May 29.
Wrench. A. Guttly. 1,457,244; May 29.
Wringer. W. G. Beatty. 1,456,529; May 29.
Writing pad. D. M. Kumpf. 1,456,927; May 29.
Zithers, Mechanism for playing. P. Riessner. 1,457,187; May 29.

CLASSIFICATION OF PATENTS

ISSUED MAY 29, 1923.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by one star (*) and of the United States Circuit Court of Appeals by the letter (⁴).]

ERRATA.

1,457,551, page 129, in heading, assignment, name of assignee, for "assignor to The Beaver Company, a Corporation of Ohio" read *assignor, by mesne assignments, to The Beaver Products Company, Inc., a Corporation of New York.*

1,458,308, page 352, in heading, assignment, name of assignee, for "Darn E. Z. Laboratorys" read *Darn E. Z. Laboratory.*

1,458,461, page 385, in heading, name of patentee, for "Lorenz Kneedles Ayers" read *Lorenz Kneedler Ayers.*

1,459,568, page 674, in heading, assignment, name of assignee, for "assignor to S. Whyle Merritt Co., Inc., New York, N. Y." read *assignor, by mesne assignments, to C. Blair Woodrow.*

Patents Nos. 1,457,292 to 1,458,123.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Beginning with the issue of June 5, 1923, the index of titles of trade-marks published for opposition will be arranged by classes, taking the place of the alphabetical list of trade-mark titles published for opposition, and the index of titles of trade-marks registered will be arranged by classes, taking the place of the alphabetical list of trade-marks registered.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) McLeod patents, 1,029,307 and 1,055,577, for tire construction, void for anticipation. *McLeod Tire Corporation* v. *B. F. Goodrich Co.*, 287 Fed. Rep., 339.

(U. S. C. C. A. Conn.) Hudson and Elmes patent, 1,061,541, claims 1 and 5, for improvements in primary batteries, *Held* invalid. *Thomas A. Edison, Inc.*, v. *Waterbury Battery Co.*, 287 Fed. Rep., 320.

(U. S. C. C. A. Mich.) Rousso patent, 1,157,046, claims 1–3, 5, for towel cabinet, *Held* not so clearly infringed as to require preliminary injunction. *Rousso* v. *First National Bank*, 287 Fed. Rep., 273.

(U. S. C. C. A. Conn.) Holland patent, 1,167,499, claim 1, for improvement in primary batteries, *Held* not anticipated and infringed. *Thomas A. Edison, Inc.*, v. *Waterbury Battery Co.*, 287 Fed. Rep., 320.

(U. S. C. C. A. Ohio.) Frazier & Hansen patent, 1,207,392, claims 3 and 4, for hose connection, *Held* not infringed. *Hansen Mfg. Co.* v. *M. & M. Co.*, 287 Fed. Rep., 349.

Interference Notices.

U. S. PATENT OFFICE, *Washington, May 22, 1923.*

Ollie S. Lyttleton, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Thos. A. Buxton, of Girard, Ga., for registration of a trade-mark and trade-mark registered December 13, 1921, No. 149,437, to Ollie S. Lyttleton, of Lexington, Ky., and the Office having been unable to secure service upon said Lyttleton at the last address of record—namely, Young Bldg., Charleston, W. Va.—notice is hereby given that unless said Lyttleton, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, May 11, 1923.*

Harry Paul Senay, his assigns or legal representatives, take notice:

An interference has been declared by this Office between the application of The Reese Chemical Company, 1945 East 57th Street, Cleveland, Ohio, for registration of a trade-mark and trade-mark registered November 3, 1914, No. 101,015, to Harry Paul Senay, 601 H Street NE., Washington, D. C. The Office having been unable to secure service upon said Senay, notice is hereby given that unless said Senay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, May 14, 1923.*

Walter F. McCaleb, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the patent granted April 20, 1920, No. 1,337,844, to Walter F. McCaleb, Federal Reserve Bank, Dallas, Tex., and an application for patent filed by William S. Gubelmann, 773 Richmond Avenue, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said McCaleb at the said address having been returned by the post office undeliverable, notice is hereby given that unless said McCaleb, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business May 25, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 73,782; Trade-Mark Division, 3,816. Oldest new case, May 22, 1923; oldest amended, June 2, 1922. The dates given are 1923 except where * indicates 1922.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unkeadeys; Trees, Plants, and Flowers.	Aug. 22	Aug. 16	1,208
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 26	Aug. 28	1,565
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding;	June 10	June 6	1,863
234	4. Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 25	*Jan. 30	1,405
167	5. MACNAB, J. F., Bookbinding; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	May 22	July 16	1,360
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substances Preparation.	Sept. 2	*Jan. 8	1,678
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Aug. 16	Nov. 2	2,523
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Dec. 15	*Feb. 13	1,494
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Sept. 6	*Apr. 21	851
235	10 MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Aug. 17	Sept. 26	1,376
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Nov. 13	Nov. 7	1,026
322	12. PIERCE, P. P., Machine Elements	Oct. 7	Dec. 1	1,502
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	July 25	*Feb. 14	1,278
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	June 28	*Apr. 13	1,213
308	15. REDROW, W. L., Cloth Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 12	Sept. 15	2,023
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 14	July 3	2,481
307	17. RAFTER, G. S., Casting, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	June 29	Nov. 6	1,476
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 27	July 1	2,008
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Aug. 22	*Feb. 6	755
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	Sept. 20	Nov. 10	1,970
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 3	*Jan. 3	1,048
249	22 COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 28	Oct. 11	656
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	July 7	June 2	868
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 19	Sept. 6	1,440
315	25. LIGHTFOOT, J. E., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 26	*Jan. 15	475
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 1	July 25	956
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	July 17	July 21	2,136
225	28. BENSON, A. E., Internal-Combustion Engines	Aug. 16	Oct. 2	1,539
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 24	Dec. 18	713
153	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 23	*Jan. 8	1,883
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 28	Aug. 15	1,758
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 3	Sept. 26	1,300
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Aug. 21	Sept. 9	1,623
304	34. SIMPSON, G. E., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Nov. 20	*Jan. 2	756
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Tube.	*Jan. 8	*Mar. 8	1,046
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Nov. 4	Oct. 17	1,928
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 12	July 22	1,936
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Aug. 8	July 8	1,907
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 31	July 15	1,530
269	40. OBERLIN, J. J., Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 2	*Jan. 10	2,104
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 16	Sept. 26	950
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Aug. 28	July 7	1,713
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 18	Sept. 8	1,323
253	44. SHAFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	July 25	*Jan. 2	1,249
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	July 10	Oct. 2	1,485
832	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 5	Sept. 23	1,432
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	July 22	Dec. 21	1,211
113	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	July 1	July 17	2,309
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Aug. 26	Aug. 15	715
102	DESIGNS: C. O. MARKHAM (Acting)	Sept. 5	*Jan. 6	2,639
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. (Trade-Marks	*Feb. 10	*Mar. 28	3,800
	(Labels and Prints	*May 18	*May 21	16

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

BRIGGS AND JACOBI *v.* KAISLING. KAISLING *v.* BRIGGS. BRIGGS AND JACOBI *v.* KAISLING.

Nos. 1,552, 1,553, and 1,554. Decided April 3, 1923.

1. INTERFERENCE—PRIORITY—SOLE INVENTOR WHO IN GOOD FAITH JOINS ANOTHER IN FILING A JOINT APPLICATION.

Where B. was in good faith a party to the joint application filed by B. and J. and also to the preliminary statement filed by them in the interference, and it would even have been to his advantage in taking testimony had he claimed to be the sole inventor, it was an error on the part of the Patent Office when it became apparent that B. and not B. and J. was the real inventor to deny relief either by amendment of the joint application or by according to B. the privilege of filing a sole application.

2. CONSTRUCTION OF CLAIM—WORD WHICH ORIGINATED IN THE APPLICATION OF ANOTHER INVENTOR.

The word "simultaneous" originated in the application of another inventor, and that application fails to place emphasis on this term or to point out any particular necessity for giving it a technical interpretation. *Held* that in B.'s structure, where a second effect is produced by a further movement of the same instrument which performs the first, the operation is so continuous as to be substantially simultaneous and that to rule otherwise would be to place form before substance, or by the arbitrary interpretation of a term evidently not intended to have special significance to deprive the prior or real inventor of the benefit of a device reasonably capable of performing the identical function.

Mr. J. H. Milans and *Mr. C. T. Milans* for Briggs et al.

Mr. G. A. Yanochowski for Kaisling.

Before ROBB and VAN ORSDEL, Justices, and SMITH, Judge U. S. Court of Customs Appeals.

ROBB, *J.*:

These are appeals from decisions of the Patent Office in interference proceedings and each involves an electrical switch of the type used to control the lighting, ignition and other circuits of a motor vehicle. A single record embraces all the evidence. Kaisling has one application involved, while the Briggs & Stratton Co. is the assignee of all adverse interests covered by the other applications. It is apparent, therefore, that in substance and effect this is but a single case.

We first will consider Kaisling's contentions in appeal No. 1,553, wherein the tribunals of the Patent Office concurrently awarded priority to Briggs. There are here involved four claims, of which the 1st and 4th are illustrative, as follows:

1. A switch comprising a base having contacts, a rotary switch member having contact means for engaging the contacts, a removable key for controlling the actuation of said switch member, and other switch contacts actuated by the removable key.

4. A lighting switch and an auxiliary switch for automobiles and the like, a removable actuating member for said auxiliary switch, and means controlled by said actuating member for rendering said lighting switch inoperative.

Kaisling has been accorded August or early September of 1913 as his earliest date of conception and his filing date of December 15, 1913, as his date of constructive reduction to practice, and these dates are unchallenged.

Two applications of Briggs are here involved, dated March 8th and 15th, 1915, respectively.

The Examiner of Interferences reviewed the evidence to the effect that in December of 1912 and February of 1913 drawings were made for Briggs, which were produced and identified by the party who made them and by the model maker who built two switches (Exhibits Nos. 4 and 15) from them. These switches were shop tested and early in 1913 one like Exhibit No. 15 was installed on a car in Detroit, where is was successfully used for three or four months. While the Examiner was not satisfied with the evidence concerning this test, he was satisfied that a reduction to practice had been proven by the shop tests, and therefore awarded Briggs the date of March, 1913, for conception and reduction to practice. On appeal, the Examiners in Chief expressed themselves as convinced that the practical test in Detroit amounted to reduction to practice, and in this conclusion the Commissioner concurred. We think this conclusion clearly right. In the first place, Exhibits Nos. 4 and 15 bear no evidence of having been tampered with, and the evidence concerning their construction is straightforward and free from any taint of suspicion. They represented, at the time they were made, the limits of the progress made by Briggs in the art. It is in evidence that a switch like Exhibit No. 15 was taken to Detroit by Mr. Briggs for the purpose of interesting the F. B. Electric & Mfg. Co. Mr. John W. Fitzgerald, who was president and chief engineer of that company, a very intelligent and disinterested witness, testified to the installation and test of a switch which looked and operated like Exhibit No. 15, and there was evidence of a corroborative character which has been reviewed by the tribunals of the Patent Office. Mr. Fitzgerald testified positively that this switch was on the car three or four months. He described its operation in detail, stated that he rode in the car a number of times, and said that the switch "did the work for which it was designed without any trouble." We regard the evidence concerning the identity of these exhibits and the reduction to practice of the invention as convincing.

After the completion of Exhibit No. 4, it was discovered that by partially inserting the key the switch could be turned to either position. Advantage was taken of this discovery in Exhibit

No. 15 by so arranging the lock that the ignition switch could be moved by rotating the key in the same direction required to lock or unlock the switch. It therefore is apparent that whatever advantage springs from this change enures to the benefit of Briggs. Even though the particular advantage had not been appreciated at the time, nevertheless, had it been an inherent function of the device as designed and constructed, the inventor could not have been deprived of it. (*Morgan Engineering Co.* v. *Alliance Machine Co.*, 176 Fed., 107; 157 O. G., 1244.) Much less can an inventor be deprived of such advantage when he so reconstructs his device as to emphasize this advantage. We agree with the Patent Office, therefore, that Exhibit No. 15 clearly reads upon each of the claims of this particular issue.

Appeal No. 1,554 involves the same application of Kaisling and a joint application of Briggs and Jacobi, the single count reading as follows:

In a combination switch, a removable handle, switch contacts, a movable member for co-operation with said switch contacts, said movable member being controlled by said handle, and other switch contacts controlled by the turning of the attached handle.

Exhibits Nos. 4 and 15, heretofore discussed, were relied upon by the joint applicants. The Patent Office tribunals entertained no doubt that these exhibits disclosed the invention expressed in this count, but, being of the view that the suggestions of Jacobi did not rise to the dignity of invention,—in other words, that Briggs was the sole inventor,—awarded priority to Kaisling, notwithstanding that the invention clearly had been reduced to practice by Briggs prior to the entry of Kaisling into the field.

The sole object of an interference proceeding is "to determine the question of priority of invention." (R. S., 4904.) Recognizing this, we ruled in the Roberts case, (49 App. D. C., 250; 263 Fed., 646), that where a joint application filed in good faith by two inventors embraces an invention of which one of the applicants is the sole inventor, the Patent Office should permit the real inventor to correct the mistake and thus obtain recognition of his invention. We said:

To prevent a possible failure of justice, the present application should have been considered as a continuation of the abortive application. As already suggested, we perceive no reason why the mistake could not have been rectified by a simple amendment, but in any event the sole inventor should not be deprived of his day in court by the raising of artificial barriers against him. He claimed his invention, and, through mistake, gave his son credit where no credit was due. The elimination of the son ought not to deprive the father, the sole inventor, of the benefit of his original application; and we so rule.

Again, in *Bijur* v. *Kensington* (51 App. D. C., 230; 278 Fed., 313; 295 O. G., 887) we ruled that where a joint application was filed for a patent on which it was decided that one of the applicants was the sole inventor, he was entitled to the date of the joint application for reduction to practice, as his sole application, being an amendment of the joint application related back to the filing of the original application.

[1] In the present case, Briggs was a party to the joint application and to the preliminary statement filed here. His good faith cannot be successfully challenged because no possible advantage could have been derived by attributing to Jacobi a share in the invention. The testimony would have been exactly the same in either case. Indeed, it would have been to the advantage of Briggs had he claimed to be the sole inventor, for in that situation Jacobi could have been a corroborative witness. When, therefore, it became apparent to the Patent Office that Briggs and not Briggs and Jacobi was the real inventor of this issue, either the joint application should have been amended or Briggs accorded the privilege of filing a sole application, but he was denied either form of relief. This was error. The result, as we have seen was an award of priority to one not the prior or real inventor and the consequent defeat of the express provisions of the statute.

We come now to appeal No. 1,552. The issue here is expressed in five counts, of which the 1st and 5th are illustrative, as follows:

1. In an electric switch, a plurality of circuit contacts, a switch arm engageable with said contacts in succession, a supplementary switch, and mechanism constructed and arranged to lock said switch arm in any of its successive positions and to simultaneously actuate said supplementary switch.

5. An electric switch comprising a plurality of contacts adapted to be connected to different circuits, a switch-arm movable to any one of a plurality of positions to engage said contacts and control the circuits connected thereto, a second switch-arm and contact adapted to be connected to a circuit, a key-operated rotatable locking device for the first switch-arm, means for operating the second switch-arm by rotation of the locking device to locking position, and means for sustaining a key in position for operating said rotatable locking device.

The same application of Kaisling and the same exhibits of Briggs and Jacobi are relied upon. Here, as in appeal No. 1,544, the Patent Office ruled that the invention was attributable to Briggs alone. What we have said in the prior appeal is equally applicable here, but a further ground of decision was that neither Exhibit No. 4 nor Exhibit No. 15 supports these counts, because under the view of the Patent Office there is no simultaneous operation of the two switches in either exhibit. The Board says:

The counts call for the locking of the lighting switch arm and the actuation of the ignition (supplemental) switch simultaneously. There is no simultaneous operation of these two switches in either exhibit. In No. 15, starting with both switches unlocked and the ignition switch in its "on" position, the latter switch may be operated by the key if the latter is only partially inserted, the key being turned to the left. When the switch reaches the "off" position the key can be turned no farther until it is first pushed in to its full extent. Then it may be turned in either direction. Turning it to the right merely brings the ignition switch back to its former position, and the two movements effect no useful result. Neither of these movements has caused the lighting switch to become locked. This can be effected only by turning the key to the left almost a complete rotation after the ignition switch has been actuated. The operation in which the ignition switch is actuated by the key and the lighting switch is locked consists in first inserting the key partially, then turning it to the left to actuate the ignition switch, then stopping the rotation of the key, then pushing the key inwardly to its full extent and then turning it almost a complete rotation to the left. At substantially the end of this operation the lighting switch is locked. There is in this switch no simultaneous operation of the ignition switch and the devices for locking the lighting switch, and for this further reason Briggs and Jacobi cannot rely upon either Exhibits Nos. 4 or 15 as evidence of conception or reduction to practice.

[2] In the first place, the word "simultaneous" originated in another application. (Naul, filed March 10, 1916, now Patent No. 1,320,704.) That application fails to place emphasis upon this term or to point out any particular necessity for giving it a technical interpretation. In the Briggs structure, as clearly appears from the statement of the Examiners in Chief, the operation is so continuous as to be substantially simultaneous. To rule otherwise would be to place form before substance, or, by the arbitrary interpretation of a term evidently not intended to have special significance, to deprive the prior or real inventor of the benefit of a device reasonably capable of performing the identical function. (See *Westinghouse Machine Co.* v. *C. and G. Cooper Co.*, 245 Fed., 468.)

The suggestion was made by Kaisling in the Patent Office, as here, that Briggs concealed and suppressed his invention. As to this contention little need be said, for the installation at Detroit of a device like Exhibit No. 15, under the conditions we have detailed, is a complete answer to Kaisling on this point.

It follows that the decision in No. 1,553 is affirmed, and the decisions in Nos. 1,552 and 1,554 are reversed.

Affirmed as to No. 1,553.

Reversed as to Nos. 1,552 and 1,554.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

816,742, H. P. Roberts, Sound-recording device, suit filed Feb. 21, 1921, U. S. D. C., S. D. N. Y., Doc. E 20/348, *H. P. Roberts* v. *Barnes & Barnes* (*E. C. Barnes & Bro.*) Action settled and discontinued.

858,846, H. Alexander, House-wiring conduit systems, suit filed Mar. 13, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/209, *H. Alexander* v. *J. P. Hall-Smith Co.*

876,449, J. E. Fry, Grinding machines, suit filed Dec. 14, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/333. *Worcester Electric Tool Corp.* v. *The Black & Decker Mfg. Co.* Case dismissed by consent without prejudice.

971,418, F. D. Thomas, Stage effects, suit filed Mar. 11, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/205, *Layton & Howard* v. *A. Hammerstein and Others.*

1,108,293, F. G. Whittier, Pneumatic-dispatch-tube selective systems; 1,365,428, same, Central-station apparatus for carrier-dispatch systems, suit filed Jan. 20, 1920, U. S. D. C., S. D. N. Y., Doc. E 20/274, *The Lamson Co.* v. *R. H. Macy & Co., Inc.* Bill dismissed on the merits.

1,117,143, L. Abraham, Repeating device for talking machines; 1,173,501, E. S. Geer, Sound reproducer, suit filed Mar. 8, 1923, U. S. D. C., S. D. N. Y., Doc. E 23/181, *Geer & Huth* v. *G. M. Browning and Others* (*Gold Seal Co.*) Consent decree adjudging infringement and granting perpetual injunction.

1,152,642, 1,192,786, 1,246,818, A. A. Kent, Electric contact device; 1,192,788, same, Electrical igniting mechanism for internal-combustion engines; Re. 15,128, same, Contact devices; Des. 42,666, same, Caps for contact makers; Des. 53,852, same, Spring contact arms; Des. 56,748, same, Ignition distributor; Des. 57,914, same, Ignition contactor, suit filed Jan. 10, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/21, *Atwater Kent Mfg. Co.* v. *Gilfillan Bros., Inc.* Dismissed without prejudice.

1,173,501. (See 1,117,143.)

1,192,786. (See 1,152,642.)

1,192,788. (See 1,152,642.)

1,230,156, R. L. Hanan, Dental surveying apparatus; 1,293,567, F. L. Stanton, System of dental charts and method of making same; 1,246,408, G. D. Fish, Occlusograph, suit filed Jan. 21, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/61, *F. L. Stanton* v. *J. A. Lindeau.* Decree pro confesso adjudging infringement and granting injunction.

1,246,408. (See 1,230,156.)

1,246,818. (See 1,152,642.)

1,293,567. (See 1,230,156.)

1,365,428. (See 1,108,293.)

1,401,942, Benzer & Benzer, Side wind deflector, suits filed Feb. 28, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/155, *The Benzer Corp.* v. *Oppenheim & Oppenheim* (*Keystone Engineering Co.*). Consent decree adjudging infringement and granting injunction. Same. Doc. E 23/156, *The Benzer Corp.* v. *Wildenberg Bros.* Consent decree adjudging infringement and granting injunction.

Re. 14,458, B. C. Ames, Unbreakable concavo-convex compression crystal, suit filed Nov. 25, 1921, U. S. D. C., S. D. N. Y., Doc. E 22/283, *E. Ingraham Co.* v. *S. Schisgall and Others.* Consent decree adjudging infringement and adjudging that former injunction shall stand. Same, suit filed Mar. 17, 1922, U. S. D. C., S. D. N. Y., Doc. E 23/224, *The E. Ingraham Co.* v. *Ida Silver* (*The Ideal Crystal & Machine Mfg. Co.*). Preliminary injunction granted.

Re. 15,128. (See 1,152,642.)

Des. 42,666. (See 1,152,642.)

Des. 53,852. (See 1,152,642.)

Des. 56,748. (See 1,152,642.)

Des. 57,914. (See 1,152,642.)

Disclaimer.

1,393,474.—*Robert E. Wilson*, Cambridge, Mass. MANUFACTURE OF LEAD ARSENATE. Patent dated October 11, 1921. Disclaimer filed May 24, 1923, by the assignee, *The Toledo Rex Spray Company.*

Hereby enters its disclaimer of any interpretation of the claims of said Patent No. 1,393,474 which includes such bodies as tannin and pyrogallol which are acid in character and which do not exert their protective action in the presence of considerable amounts of basic impurities and substances, such as litharge.

Changes in the Patent Office.

WASHINGTON, D. C., *May 8, 1923.*

Hon. EDWARD C. FINNEY,
First Assistant Secretary, Interior Department, Washington, D. C.

DEAR JUDGE FINNEY: In reply to your letter of May 1st, requesting a statement of the "achievements" of this bureau with respect to the return of surplus to the Treasury, or the introduction of new and efficient methods to permit more work to be performed with the same appropriations, I have the honor to report that in the last fiscal year the Patent Office turned back into the Treasury $172,081.21 of the amount received by it as fees, over and above its expenses. Although the Patent Office has been called upon in the last two or three years to do 50% more patent work and 100% more trade-mark work than in previous years, $62,240.98 of the appropriations for the year ending June 30, 1922, were turned back into the Treasury.

In three years new applications jumped from 75,000 to 113,000 per year (trade-marks from 8,000 to 17,000), so our purpose has been to improve the efficiency of the various divisions to keep the work from going further behind. On July 1st, last, there were nine technical divisions more than one year behind—to-day not one division is. Methods have been revolutionized in the ten clerical divisions, so that the work, which was many months behind two years ago, is practically current now. Radical changes in methods only have enabled us to handle the work, with an increase of only 7% in personnel in three years, during which time the volume of work increased from 50% in patent work and over 100% in trade-mark work.

In the Application Division a whole new system of keeping the records resulted in permitting the handling of the clerical work of 108,000 applications in the year 1922 with a force of 17 clerks, while in 1920 20 clerks were needed to handle 104,000 cases.

The Issue Division is responsible for the publication of the OFFICIAL GAZETTE, a weekly periodical of 250 pages containing about 1,100 cuts weekly, and the printing of the weekly issue of 1,000 original patents and trade-marks. It is a stupendous job, costing in all about $750,000 annually. Radical changes had to be made to issue these patents and trade-marks *on time each week* and to publish the regular issue of the OFFICIAL GAZETTE each Tuesday. As to saving: One of the indexes has been omitted, saving about $10,000 per year; the printing of trade-marks has been simplified, and the Public Printer states that this will save $5,400 per year; the headings of patent drawings are multigraphed instead of printed, resulting in a great saving of clerical time and a cash saving of about $2,000 yearly; the matter common to the weekly issue of the 1,000 patents and trade-marks is being printed instead of typewritten, thus affording a saving of $1,000, besides making for accuracy.

In the Drafting Division simplified methods enabled the division to dispense with one employee.

In the Financial Division, which handled over $3,000,000 in fees last year, the introduction of a bookkeeping machine enabled one employee to do the former work of three.

Instead of distributing the expensive technical "Rules of Practice" simple circulars giving information in the language of the layman have been prepared, saving at least $500 per annum over the cost of the "Rules" and the saving of clerks in writing about 20,000 information letters annually.

Returning about 45,000 letters of inquiry and requests per year with the replies thereto, instead of filing and indexing them, as in the past, has amounted to considerable saving in clerk hire and storage space.

A change in the method of reproducing foreign patent drawings for the use of 460 technical examiners resulted in a saving of $15,641.25.

The changed method of recording and indexing 40,000 deeds saves two clerks.

The changed method of handling the 2,400 petitions annually saves one clerk.

The trade-mark search room was reorganized, most of the force voluntarily working nights for four weeks to attain this end. This has resulted in an enormous saving of time in making 400 official searches *each week*, so that the Trade-Mark Division cared for 17,000 cases in 1922, when three years ago it handled only 8,000 per year, and the division is now four months nearer to date than before reorganization.

The Publications Division *sells* 200,000 patents each month, for ten cents each, bringing in a yearly revenue of about $250,000.00, or $20,000 monthly. Most are ordered *one at a time*, and the methods of selecting, handling, and storing have been radically changed for greater efficiency. Newly-designed steel stacks enable copies to be selected and delivered in about half the former time.

Numerous other changes have been made which have resulted in economy and efficiency here and there throughout the Office, but the ones above specified are the most notable.

If you wish more detailed information with respect to any of the foregoing, I shall be pleased to furnish it.

Sincerely,

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

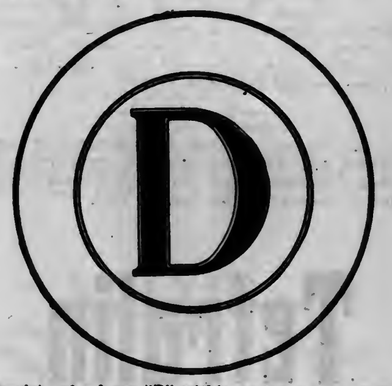
OFFICIAL GAZETTE, JUNE 5, 1923.
[PUBLISHED JUNE 6, 1923.]
[VOL. 311. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 80,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR E. DOBE & CO., INC., Boston, Mass. Filed July 30, 1914.



Consists of a large "D" within an inner pair of circles all within a similar pair of spaced outer circles.

Particular description of goods.—Foods—Namely, Butter, Olives, and Oleomargarine.

Claims use since Oct. 1, 1913.

Ser. No. 101,176. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN G. PATTON, doing business as Cafe L'Aiglon, Philadelphia, Pa. Filed Feb. 5, 1917.



CAFÉ L'AIGLON

No claim to the exclusive right to the use of the features "Cafe L'Aiglon" or to the eagle features of the mark is made in this case except in connection with the other features of the mark.

Particular description of goods.—Raw and Cooked Oysters and Clams, Cooked Lobsters, Scallops, Cooked Beef and Pork; Nuts, Salted and in Their Natural State; Butter, Salads; Cereals—Namely, Oatmeal, Cream of Wheat, Hominy, Rice, and All Kinds of Breakfast Cereals; Pies, Cakes, and Puddings.

Claims use since about June 1, 1905.

Ser. No. 125,101. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A-I MANUFACTURING CO., Bradford, England. Filed Nov. 20, 1919.



No claim is made to the exclusive use of the letters "AI" or of the letter and numeral "A1."

Particular description of goods.—Electric Welding Machines and Parts Thereof and Electric Tools for Welding Purposes and Parts Thereof.

Claims use since about Mar. 1, 1919.

Ser. No. 128,133. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE A. I. ROOT CO., Medina, Ohio. Filed Feb. 9, 1920.

AIRCO

Particular description of goods.—Beehives and Comb Foundations.

Claims use since Nov. 1, 1919.

Ser. No. 135,736. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE A. STAFFORD, doing business as G. A. Stafford & Co., New York, N. Y. Filed Aug. 2, 1920.

Listado Domingo

No claim is made for the word "Listado" apart from the mark shown in the drawing.

Particular description of goods.—Woven Cotton Fabrics in the Piece.

Claims use since Dec. 1, 1913.

Ser. No. 141,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) I. N. STOWE, M. D., doing business as South-Eastern Medicine Co., Atlanta, Ga. Filed Dec. 17, 1920.

TRADE FEMA-TONE MARK

No claim is made to the words "Trade Mark" apart from the mark as shown. The color lining appearing on the drawing is to designate shading only.

Particular description of goods.—Female Tonic and Regulator.

Claims use since Oct. 1, 1920.

Ser. No. 141,855. (CLASS 39. CLOTHING.) BENJAMIN F. CHAMBERLIN, doing business as B. F. Chamberlin, Boston, Mass. Filed Jan. 5, 1921.

CHACO

Particular description of goods.—Molded Rubber Heels and Soles, Fiber Soles and Heels; Rubber, Fiber, and Fabric Shoes; and Rubber and Fiber Top Lifts.

Claims use since about Apr. 1, 1920.

Ser. No. 141,856. (CLASS 39. CLOTHING.) BENJAMIN F. CHAMBERLIN, doing business as B. F. Chamberlin, Boston, Mass. Filed Jan. 5, 1921.

B. F. CHAMBERLIN BF BOSTON. U.S.A.

Particular description of goods.—Molded Rubber Heels and Soles, Fiber Soles and Heels; Rubber, Fiber, and Fabric Shoes; and Rubber and Fiber Top Lifts.

Claims use since about Apr. 1, 1920.

Ser. No. 142,042. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Wood and Food Preservatives, Photographic Chemicals, Dyestuffs, Dyes, Mordants, Tanning Extracts and Compounds, Beeswax; Fumigating, Spraying, and Dipping Preparations; Tempering Liquids, Dibromtetrahydronaphthol, and Medicines, Pharmaceutical and Hygienic Preparations—Namely, Anthelmintics, Antipyretics, Antiseptics, Diuretics, Expectorants, and Narcotics.

Claims use since Dec. 12, 1906.

Ser. No. 144,095. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MOVIOLASS COMPANY, Milford, Mass. Filed Feb. 26, 1921.

Moviglas

Particular description of goods.—Eyeglasses.

Claims use since Jan. 29, 1921.

Ser. No. 149,048. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WELDENE MANUFACTURING COMPANY, Chicago, Ill. Filed June 11, 1921.

WELDENE

Particular description of goods.—Solder.

Claims use since May 19, 1921.

Ser. No. 149,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES FREDERICK STRACHAN, Montreal, Quebec, Canada. Filed July 1, 1921.

VITOS

Particular description of goods.—Bread.

Claims use since on or about Apr. 1, 1921.

Ser. No. 150,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAINTY MAID COMPANY, Somerville, Mass. Filed July 8, 1921.

Daintymaid

Trade-mark shown in accompanying drawing consists of the brand "Dainty Maid."

Particular description of goods.—Salad Dressing, Mayonnaise, Tartar Sauce, Mustard, Olive Pimento Mayonnaise, Marmalade, Piccalilli, Horse-Radish, and Mustard Pickles.

Claims use since Apr. 1, 1919.

Ser. No. 152,763. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MAJESTIC MANUFACTURING COMPANY, St. Louis, Mo. Filed Sept. 9, 1921.

Majestic

Particular description of goods.—Steamers, Seamless Steam Kettles, Copper-Jacketed Kettles, Saucepan Racks, Range Floor Boards, Sinks, Coffee Urns, Hot-Water Urns, Urn Batteries, Siphon Urns, Coffee Machines, Steam Tables, Steam Table and Plate Warmer, Bain Maries, Serving Shelves, Rice and Cereal Cookers, Waffle Irons.

Claims use since 1897.

Ser. No. 152,791. (CLASS 39. CLOTHING.) ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Sept. 10, 1921.

BETTER SHOES LESS MONEY

No claim is made herein for the words "Better Shoes for Less Money" apart from the mark as shown on the drawing.

Particular description of goods.—Leather Shoes.

Claims use since about 1908.

Ser. No. 153,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPRATT'S PATENT LIMITED, London, England. Filed Oct. 7, 1921.

Puppilac

Particular description of goods.—Milk Food in Powder Form for Dogs and Cats.

Claims use since September, 1919.

Ser. No. 154,242. (CLASS 39. CLOTHING.) WILLIAM J. SCHULT, doing business as W. J. Schult & Company, Elkhart, Ind. Filed Oct. 17, 1921.

FOR DAD AND LAD

Particular description of goods.—Men's and Boys' Hats and Caps, Dress, Work, and Negligee Shirts, Undershirts Both Knitted and Textile Fabric, Knitted and Textile Fabric Underwear, Leather and Fabric Gloves, Collars, Neckties, Hosiery, Overalls, Sweaters, Coats, Vests, and Trousers.

Claims use since July 1, 1916.

Ser. No. 154,889. (CLASS 37. PAPER AND STATIONERY.) EDGAR C. RUWE COMPANY, INC., New York, N. Y. Filed Nov. 1, 1921.



Particular description of goods.—Envelopes and Paper.

Claims use since October, 1920.

Ser. No. 155,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCNASBY OYSTER CO., Annapolis, Md. Filed Nov. 10, 1921.



No claim made to the words "Famous," "Brand," "Oysters," and "Annapolis, Md." separate and apart from the mark as shown.

Particular description of goods.—Raw Oysters and Oysters in the Shell.

Claims use since Sept. 1, 1900.

Ser. No. 155,292. (CLASS 25. LOCKS AND SAFES.) AMERICAN LOCK MANUFACTURING CO., Chicago, Ill., assignor, by mesne assignments, to John Junkung, Chicago, Ill. Filed Nov. 12, 1921.



No exclusive claim made for the words "Grip" and "Tumbler" except as a part of the mark shown by the drawing.

Particular description of goods.—Locks.

Claims use since Oct. 3, 1921.

Ser. No. 155,630. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NORTH STAR CHEMICAL WORKS, INC., Lawrence, Mass. Filed Nov. 19, 1921.

"GOLFIX"

Trade-mark consists of the word "Golfix."

Particular description of goods.—Leather Preservatives Made from Wool Fat or Lanolin.

Claims use since Aug. 1, 1921.

Ser. No. 155,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL A. BAUMANN, doing business as Lake Mills Milk Company, Jefferson, Wis. Filed Nov. 21, 1921.



Trade-mark consists of a checkered band shown in accompanying drawing.

Particular description of goods.—Canned Evaporated Milk.

Claims use since Sept. 21, 1921.

Ser. No. 155,791. (CLASS 39. CLOTHING.) WEBER MANUFACTURING CO., Tampa, Fla. Filed Nov. 22, 1921.

"Polly Prim"

Trade-mark comprises the words "Polly Prim."

Particular description of goods.—Ladies' and Children's Aprons.

Claims use since February, 1918.

Ser. No. 155,836. (CLASS 12. CONSTRUCTION MATERIALS.) SISO PRODUCTS COMPANY, St. Paul, Minn. Filed Nov. 23, 1921.

QUAD

Particular description of goods.—Shingle Strips.

Claims use since June 1, 1918.

Ser. No. 156,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GOUDEY GUM COMPANY, Boston, Mass. Filed Nov. 28, 1921.

Sporting Confection

No claim is made to the word "Confection" apart from the mark shown on the drawing. Trade-mark consists of words "Sporting Confection."

Particular description of goods.—Chewing Gum.

Claims use since July 5, 1921.

Ser. No. 156,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD AND BALLARD COMPANY, Louisville, Ky. Filed Dec. 8, 1921.



As shown in the drawing, the mark comprises the words "Sun Set" appearing on a background representing an ocean scene colored blue, as indicated by the horizontal lines, with a ship thereon, and above the same the setting sun and an overhead background colored red, as indicated by the vertical lines, all enclosed in a fanciful circular border.

Particular description of goods.—Wheat Flour—Namely, Self-Rising Flour.

Claims use since about Apr. 6. 1897.

Ser. No. 156,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DEKLYN CANDY COMPANY. Cleveland, Ohio. Filed Dec. 10, 1921.

Quality

Particular description of goods.—Confectionery—Namely, Chocolate-Covered Confections and Bonbons.

Claims use since about Mar. 1, 1921.

Ser. No. 156,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIVIAN A. SHORTT, Indianapolis, Ind. Filed Dec. 13, 1921.

"MOPOWR"

Trade-mark "MopowR."

Particular description of goods.—Compound for Removing Carbon and Other Foreign Particles from Internal-Combustion Engines.

Claims use since October, 1921.

Ser. No. 158,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT L. KANDLE, doing business as Muturo Mfg. Co., Richmond, Va. Filed Jan. 17, 1922.

Muturo's

Particular description of goods.—Hair Tonic.

Claims use since Apr. 15. 1921.

Ser. No. 158,280. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FREDERICK ADOLF APPELBAUM, New York, N. Y. Filed Jan. 23, 1922.

"Perfectiscope"

Particular description of goods.—Lantern Slides.

Claims use since Jan. 1. 1922.

Ser. No. 158,403. (CLASS 39. CLOTHING.) SHOTWELL'S INC., Houston, Tex. Filed Jan. 24, 1922.



Particular description of goods.—Children's—Namely, Suits, Overcoats, Mackinaws, Raincoats, Wash Suits, Flapper Suits, Overalls, Play Suits, Blouses, Belts, Ties, Hats, Caps, and Tams for Outer Wear, and Shirts, Pyjamas, Nightshirts, Sleepers, Hosiery, Undershirts, Knitted and Textile Fabric Drawers and Union Suits for Underwear.

Claims use since Feb. 1, 1921.

Ser. No. 158,632. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Jan. 30, 1922.

OVERSET

Particular description of goods.—Threads.
Claims use since Aug. 22, 1919.

Ser. No. 158,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KASCO MILLS, INC., Waverly, N. Y. Filed Feb. 4, 1922.



The word "Beatsall" is hereby disclaimed.
Particular description of goods.—Dairy Feed and Rations.
Claims use since July, 1920.

Ser. No. 159,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD & BALLARD COMPANY, Louisville, Ky. Filed Feb. 9, 1922.



As shown in the drawing, the mark comprises the words "Sea Plane" appearing on a background representing an ocean scene colored blue, as indicated by the horizontal lines, a sea plane appearing above said words and above the ocean scene a background colored red, as indicated by the vertical lines, all enclosed in a fanciful circular border.
Particular description of goods.—Wheat Flour—Namely, Self-Rising Flour.
Claims use since about Jan. 26, 1922.

Ser. No. 160,313. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

Chiffontine

Particular description of goods.—Cotton and Silk Mixture Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,315. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

CREPE MIRABEAU

No claim is made to the word "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Cotton and Silk Mixture Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MER-SHA CANDIES, St. Paul, Minn. Filed Mar. 13, 1922.

Mer Sha Candies

Disclaim the descriptive word "Candies" as shown on the drawing of file.
Particular description of goods.—Candy.
Claims use since May 7, 1921.

Ser. No. 160,743. (CLASS 39. CLOTHING.) BROWN & BIGELOW, St. Paul, Minn. Filed Mar. 16, 1922.

Remembrance Advertising

Particular description of goods.—Caps for Men, Women, or Children, and Aprons Made of Cloth.
Claims use since Mar. 1, 1920.

Ser. No. 161,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORMAN C. HERON, doing business as N. C. Heron Co., Los Angeles, Calif. Filed Mar. 27, 1922.



No claim is made to the trade-mark rights in the words "Trade Mark" or "Registered."
Particular description of goods.—Eucalyptus Remedies for Internal and External Uses for Colds, Catarrh, and Rheumatism.
Claims use since July 1, 1900.

Ser. No. 161,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY N. BRAWNER, Jr., doing business as Chestnut Farms Dairy, Washington, D. C. Filed Mar. 28, 1922.

MOUNT VERNON

Particular description of goods.—Butter.
Claims use since Dec. 15, 1921.

Ser. No. 161,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KIRSCHBRAUN & SONS, INC., Omaha, Nebr. Filed Apr. 3, 1922.



No claim is made to the exclusive right to the use of the words "Fancy Sweet Butter" and the representation of a butter firkin apart from the mark shown in the drawing.
Particular description of goods.—Butter.
Claims use since Jan. 1, 1921.

Ser. No. 162,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. A. TUCKETT COMPANY, Salt Lake City, Utah. Filed Apr. 10, 1922.



No claim made to the exclusive use of the words "Merit" and "Brand" apart from the other features of the mark as shown.
Particular description of goods.—Spices, Flavoring Essences for Food, Flavoring Extracts for Food, Maple and Maple-Flavor Cane and Corn Sirup, Gelatin, Nuts in Their Natural State, Nut Meats, Milk Powder, Maple Sugar, Crushed Fruits, Dried Fruits, Cocoa, Egg Powder, Egg Albumen, Powdered and Crystallized Imitation-Egg Material (Whip Powder).
Claims use since Oct. 15, 1921.

Ser. No. 162,763. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO CONFECTION COMPANY, Cleveland, Ohio. Filed Apr. 22, 1922.

BIG BARNEY

Particular description of goods.—Candy.
Claims use since Jan. 5, 1922.

Ser. No. 162,783. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED ALFALFA CO., Omaha, Nebr. Filed Apr. 22, 1922.

BAT-L-AX

Particular description of goods.—Stock and Poultry Feed.
Claims use since Jan. 21, 1922.

Ser. No. 162,784. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED ALFALFA CO., Omaha, Nebr. Filed Apr. 22, 1922.



Particular description of goods.—Stock and Poultry Feed.
Claims use since Jan. 21, 1922.

Ser. No. 162,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUPLOP MILLING CO., Clarksville, Tenn. Filed Apr. 24, 1922.

POINT LACE

Particular description of goods.—Wheat Flour.
Claims use since 1880.

Ser. No. 162,995. (CLASS 12. CONSTRUCTION MATERIALS.) LEOLITH PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 27, 1922.

Leolith

Particular description of goods.—Wall Board, Shingles, Tiles and Artificial Stone, Decorative and Protective Coverings for Inner and Outer Walls, for Floors, and for Ceilings, and Compositions for Making Wall Board, Shingles, Tiles, Artificial Stone, and Coverings, Said Wall Board, Shingles, Tiles, and Coverings Being Made Up and Said Compositions Consisting in Whole or in Part of Vegetable Fibrous Materials and Said Tiles and Artificial Stone Consisting in Whole or in Part of a Cement.
Claims use since about Feb. 8, 1922.

Ser. No. 163,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES FREDERICK STRACHAN, Montreal, Quebec, Canada. Filed Apr. 27, 1922.

GERMOS

Particular description of goods.—Bread.
Claims use since on or about Dec. 1, 1921.

Ser. No. 164,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. W. DENIO MILLING COMPANY, Sheridan, Wyo. Filed May 18, 1922.

BEST OUT WEST

No claim is made to the individual words except as combined in the mark.
Particular description of goods.—Wheat Flour.
Claims use since 1912.

Ser. No. 164,258. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PRODUCERS CANNING AND PACKING COMPANY, Salem, Oreg. Filed May 22, 1922.

ROYAL PURPLE

Particular description of goods.—Canned Fruits.
Claims use since Aug. 3, 1921.

Ser. No. 164,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, South San Francisco, Calif. Filed May 22, 1922.

VIRDEN'S Thrift

Particular description of goods.—Meat Loaf, Sugar-Cured Bacon; Souse, a Meat Picked from the Head of a Pig, Made into a Jelly Form, and Pressed into Cans; Cooked Corned Beef; Cooked Specialty, a Sausage Preparation Cooked in a Sack; Bologna Style Sausage, and Pure Lard.
Claims use since Mar. 21, 1919, for meats; since Oct. 1, 1918, for lard.

Ser. No. 164,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEN H. ARKELIAN & CO., Fresno, Calif. Filed May 25, 1922.

ENCHANTRESS

Particular description of goods.—Fresh Grapes and Cantaloupes.
Claims use since 1920.

Ser. No. 164,493. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORRADO & MARRANZINI, New York, N. Y. Filed May 25, 1922.

PRINCIPE D'ITALIA

Particular description of goods.—Olive Oil.
Claims use since May 15, 1922.

Ser. No. 164,617. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WASHINGTON RADIO CORP., Washington, D. C. Filed May 27, 1922.

WAV-OM-ETER

Particular description of goods.—Radio Sets and Parts Thereof.
Claims use since May 15, 1922.

Ser. No. 164,808. (CLASS 39. CLOTHING.) JOHNSON & COMPANY, St. Peter, Minn. Filed June 2, 1922.

"GO-PFOR"



Particular description of goods.—Negligee and Work Shirts, Pants, Overalls, and Coats for Men and Children.
Claims use since 1900.

Ser. No. 164,852. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KEELY & WATSON, New York, N. Y. Filed June 2, 1922.

Autumnleaf

Particular description of goods.—Woolen Piece Goods.
Claims use since on or about Apr. 10, 1922.

Ser. No. 165,300. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NIX PRODUCE COMPANY, Hastings, Fla. Filed June 10, 1922.

BEST EVER

Particular description of goods.—Irish Potatoes in Their Natural State.
Claims use since 1912.

Ser. No. 165,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCHIBALD & LEWIS COMPANY, New York, N. Y. Filed June 14, 1922.

BLACK DIAMOND

Particular description of goods.—Spices, Birdseed, Bird Food, Seasoning Herbs, and Tapioca.
Claims use since 1890.

Ser. No. 165,750. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ANDRÉ GARBARINI, Courbevoie, France. Filed June 20, 1922.



The word "Radiateur" and the representation of the goods are disclaimed apart from the mark as used.
Particular description of goods.—Portable Heating Apparatus.
Claims use since Jan. 12, 1922.

Ser. No. 165,821. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) QUINN READE MOTOR VEHICLE FENDER CO., Quebec, Quebec, Canada, and New York, N. Y. Filed June 21, 1922.



Particular description of goods.—Automobile Bumpers and Parts Therefor.
Claims use since Feb. 14, 1922.

Ser. No. 166,758. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES ALEX DENBY WATT, London, England. Filed July 11, 1922.

COMPAX

Particular description of goods.—Safety Razors and Blades Thereof.
Claims use since June 2, 1921.

Ser. No. 166,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & CO. INC., New York, N. Y. Filed July 13, 1922.

PURITAN



Particular description of goods.—Printed Shirtings and Printed Percales.
Claims use since 1912.

Ser. No. 167,040. (CLASS 39. CLOTHING.) BERGER HOSIERY COMPANY, Philadelphia, Pa. Filed July 18, 1922.

BERGER

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 1, 1920.

Ser. No. 167,076. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EASTERN AUTO PRODUCTS CO., Providence, R. I. Filed July 19, 1922.

WITCH

Particular description of goods.—Chemical Carbon Remover for Internal-Combustion Engines.
Claims use since Jan. 15, 1922.

Ser. No. 167,155. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE A. ZABRISKIE, New York. N. Y. Filed July 20, 1922.

ROSEMARY

Particular description of goods.—Wheat Flour.
Claims use since Aug. 1, 1910.

Ser. No. 167,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLYDE CREAMERY COMPANY, Clyde, N. Y. Filed July 24, 1922. Under ten-year proviso.

CLYDE

Particular description of goods.—Butter.
Claims use since August, 1894.

Ser. No. 167,292. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORBY BAKING COMPANY, INC., Washington, D. C. Filed July 24, 1922.

KRUSHED-WHEAT

No claim is made to the words "Krushed Wheat," inasmuch as these words are recognized as being the common property of the public.
Particular description of goods.—Bread.
Claims use since 1915.

Ser. No. 167,482. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WM. J. MURDOCK CO., Chelsea, Mass. Filed July 27, 1922.

RADIO MURDOCK

No claim is made to the monopoly of the letters "Radio" except in connection with the other features of the mark.
Particular description of goods.—Wireless Apparatus—Namely, Vacuum-Tube Sockets, Detector Stands, Rheostats, Condensers, Variometers, Variocouplers, Receivers, and Indicating Dials.
Claims use since on or about July 1, 1921.

Ser. No. 167,597. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BROOKS, San Francisco, Calif. Filed July 31, 1922.

PIG'N a BLANKIT

Particular description of goods.—Meat Pies, Meat Dumplings, and Foods Having a Meat Filler and Cover Made From Flour or Any Cereal.
Claims use since on or about Jan. 7, 1922.

Ser. No. 167,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLACK BROS. FLOUR MILLS, Beatrice, Nebr. Filed Aug. 2, 1922.



Particular description of goods.—Wheat Flour.
Claims use since January, 1880.

Ser. No. 167,833. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STANDARD OIL COMPANY, San Francisco, Calif. Filed Aug. 4, 1922.

ORONITE

Particular description of goods.—Harness Oil and Sole-Leather Oil.
Claims use since Aug. 3, 1920.

Ser. No. 167,834. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STANDARD OIL COMPANY, San Francisco, Calif. Filed Aug. 4, 1922.



Particular description of goods.—Harness Oil and Sole-Leather Oil.
Claims use since Aug. 3, 1920.

Ser. No. 167,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KINGSBURY COMPANY, Fort Wayne, Ind. Filed Aug. 4, 1922.

T. N. T.
THREE NIGHTS TIME

Particular description of goods.—Foot-Bath Preparation.
Claims use since Feb. 1, 1921.

Ser. No. 168,341. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAIL BROTHERS, doing business as Keystone Perfume Company, Philadelphia, Pa. Filed Aug. 16, 1922.

RADIO

Particular description of goods.—Bay Rum.
Claims use since January, 1922.

Ser. No. 168,376. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 17, 1922.

"SALTEX-WEAR"

No claim is made to the exclusive right to the use of the word "Wear" apart from the mark shown. Trade-mark consists of the words "Saltex-Wear."
Particular description of goods.—Men's, Women's, Children's, and Infants' Underwear of Textile Fabric.
Claims use since July 21, 1922.

Ser. No. 168,379. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 17, 1922.

"SALTEXTILE-WEAR"

No claim is made to the exclusive right to the use of the word "Wear" apart from the mark shown. Trade-mark consists of the word "Saltextile-Wear."
Particular description of goods.—Men's, Women's, Children's, and Infants' Underwear of Textile Fabric.
Claims use since July 21, 1922.

Ser. No. 168,380. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 17, 1922.

"SILK-TEX"

The trade-mark consists of the word "Silk-Tex."
Particular description of goods.—Men's, Women's, Children's, and Infants' Underwear of Textile Fabric.
Claims use since July 21, 1922.

Ser. No. 168,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLY-LESTER MILK COMPANY, Philadelphia, Pa. Filed Aug. 26, 1922.

CREAMILK

Particular description of goods.—Raw Milk, Raw Cream, Butter, Milk, and Cottage Cheese.
Claims use since Mar. 1, 1922.

Ser. No. 169,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLAUDE A. BELL, Tyngsboro, Mass. Filed Sept. 7, 1922.



Particular description of goods.—Artificial-Vanilla Flavoring Compound for Candies, Cakes, Pies, Puddings, and Ice Cream.
Claims use since Jan. 1, 1922.

Ser. No. 169,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Sept. 9, 1922.

EMERAUDE
DE
COTY

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Sachet Powders, Brilliantine, Lotions, and Eau de Cologne.
Claims use since December, 1918.

Ser. No. 169,428. (CLASS 39. CLOTHING.) UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn. Filed Sept. 13, 1922.



No claim is made to the exclusive use of the words "Hosiery" and "Girls' Fine Gauge Ribbed" and the representation of a stocking apart from the mark as shown on the drawing.
Particular description of goods.—Hosiery.
Claims use since June 8, 1911.

Ser. No. 169,491. (CLASS 39. CLOTHING.) NEW YORK GIRL COAT CO., New York, N. Y. Filed Sept. 15, 1922.

"NEW YORK LEADS
SO DO WE."



Miss New York Junior

The picture of the child shown on the drawing is merely fanciful. No claim is made to the words "New York Leads So Do We" apart from the mark shown on the drawing.
Particular description of goods.—Girls' Coats—Namely, Overcoats and Capes.
Claims use since Feb. 1, 1922.

Ser. No. 169,858. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. KRANK MFG. CO., St. Paul, Minn. Filed Sept. 23, 1922.

HYDROFOAM

Particular description of goods.—Shampoo.
Claims use since Oct. 21, 1910.

Ser. No. 170,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUEY & MATHEWS, INC., Pittsburgh, Pa. Filed Sept. 28, 1922.

WIN-HER

"Where Quality Counts"

Particular description of goods.—Coffee, Tea, Bread, Pastry Flour, Marshmallow Creme, and Salad Dressing.
Claims use since about 1912.

Ser. No. 170,029. (CLASS 12. CONSTRUCTION MATERIALS.) E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed Sept. 28, 1922.

KROMEPATCH

Particular description of goods.—Refractory Cements.
Claims use since Feb. 13, 1922.

Ser. No. 170,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SAXON PERFUME COMPANY, Cincinnati, Ohio. Filed Sept. 28, 1922.

Xoness

Particular description of goods.—Toilet Waters, Shampoos, Hair Tonics; Massage, Vanishing, and Cold Creams; Witch-Hazel, Talcum Powder, Hair Dressing, Brilliantine, and Hair Oil.
Claims use since July, 1912.

Ser. No. 170,045. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SOCIETA ITALIANA DI FONOTIPIA, Milan, Italy. Filed Sept. 28, 1922.



Applicant disclaims any rights to the word "Milano" apart from the mark shown in the drawing.
Particular description of goods.—Talking Machines and Talking-Machine Records.
Claims use since Feb. 16, 1905.

Ser. No. 170,145. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LASKIN-SWATT CO., El Paso, Tex. Filed Sept. 30, 1922.

INSPIRATION

Particular description of goods.—Cotton and Wool Piece Goods.
Claims use since July 8, 1922.

Ser. No. 170,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VEENSTRA PRODUCE CO., Climax, Mich. Filed Oct. 7, 1922.

MICHIGAN PRIDE

Particular description of goods.—Butter.
Claims use since June, 1912.

Ser. No. 170,455. (CLASS 39. CLOTHING.) WEST BRANCH KNITTING COMPANY, Milton, Pa. Filed Oct. 7, 1922.

TWINTEX

Trade-mark "Twintex."
Particular description of goods.—Union Suits of Various Styles and Embodying Arms and Legs of Various Lengths, and Various Types of Hosiery for Men, Women, and Children.
Claims use since 1911 on union suits; since 1920 on hosiery.

Ser. No. 170,551. (CLASS 39. CLOTHING.) SHAPERO, LEWIS & CO., New York, N. Y. Filed Oct. 10, 1922.

ROLL'S ROYCE FROCKS

No claim is made to the word "Frocks" apart from the mark as shown.
Particular description of goods.—Dresses.
Claims use since Sept. 1, 1922.

Ser. No. 170,553. (CLASS 39. CLOTHING.) AMERICAN SUMMER CLO CO., New York, N. Y. Filed Oct. 10, 1922.

KEEP SMILING

Trade-mark consists of the words "Keep Smiling."
Particular description of goods.—Men's Mohair Suits in One, Two, and Three Piece Garments.
Claims use since Sept. 25, 1922.

Ser. No. 170,591. (CLASS 39. CLOTHING.) I. M. MIRSKY & SON, doing business as Milwaukee Knitting Mills, Milwaukee, Wis. Filed Oct. 11, 1922.

TWINKLE TOES

Particular description of goods.—Knitted and Textile Hosiery and Underwear for Men, Women, and Children.
Claims use since Aug. 1, 1922.

Ser. No. 170,597. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOL PERLMON, doing business as Detroit Celery and Produce Company, Detroit, Mich. Filed Oct. 11, 1922.



No claim is made to the words "Tomatoes," "Brand," and pictorial representation of a tomato apart from the mark shown in accompanying drawing. Trade-mark consists of the words "Buffalo Brand Tomatoes."
Particular description of goods.—Fresh Vegetables.
Claims use since Oct. 2, 1922.

Ser. No. 170,656. (CLASS 39. CLOTHING.) LEHMAN BROTHERS, INC., New York, N. Y. Filed Oct. 12, 1922.

"SATISFASTEEN"

Particular description of goods.—Ladies' and Misses' Wearing Apparel.
Claims use since Sept. 1, 1922.

Ser. No. 170,740. (CLASS 39. CLOTHING.) COHEN & EDELMAN, New York, N. Y. Filed Oct. 14, 1922.



Particular description of goods.—Women's Coats, Skirts, Knickerbockers, Suits, and Dresses.
Claims use since about July 1, 1921.

Ser. No. 170,741. (CLASS 39. CLOTHING.) O. FUHRMAN, INC., New York, N. Y. Filed Oct. 6, 1922.

TRU-FORM

Particular description of goods.—Leather Shoes and Storm Rubbers for Men, Women, and Children.
Claims use since Jan. 1, 1918.

Ser. No. 170,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind. Filed Oct. 16, 1922.

HI-BOY



No claim is made for the representation of a boy apart from the mark as shown.
Particular description of goods.—Self-Rising Flour.
Claims use since Jan. 31, 1922.

Ser. No. 170,794. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ERNEST SCHULTHESS, doing business as Atlas Rubber Company, New York, N. Y. Filed Oct. 16, 1922.



The mark consists of the letter "S" having associated in the border thereof the words "Safe, Schulthess, Strong," and no claim is made to the words "Safe" and "Strong" except in the association herein shown.
Particular description of goods.—Rubber Hose.
Claims use since May, 1922.

Ser. No. 170,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) I. ISAAC IRWIN, doing business as Irwin & Co., San Diego, Calif. Filed Oct. 17, 1922.



Particular description of goods.—Foods and Feed for Poultry, Live Stock, and Cattle.
Claims use since May 1, 1922.

Ser. No. 170,982. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCOIS LIBISCH, Paris, France. Filed Oct. 20, 1922.

LYTÉE

Particular description of goods.—Perfumery, Scents, Toilet Water, Hair Waters and Dyes, Bath Waters, Rice Powders, Pastes and Paints for the Face and Lips in a Soft or Hard State, Etc., and Chemicals for Making Perfumes.
Claims use since Jan. 1, 1901.

Ser. No. 171,005. (CLASS 39. CLOTHING.) I. D. WOLFSON INC., New York, N. Y. Filed Oct. 20, 1922.

ADJUSTO

Trade-mark consists of the word "Adjusto."
Particular description of goods.—Neckties.
Claims use since Sept. 15, 1922.

Ser. No. 171,015. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FABRIQUES DES MONTRES ZENITH, Le Locle, Switzerland. Filed Oct. 21, 1922.

ZENITH

Particular description of goods.—Vehicle Watches, Clocks, Alarm Clocks, and Parts of Clocks.
Claims use since January, 1915.

Ser. No. 171,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOS. ROULSTON, INC., Brooklyn, N. Y. Filed Oct. 21, 1922.



The color indicated by lines is dark purple, approximately black, the color, however, not being essential.
Particular description of goods.—Coffee.
Claims use since Oct. 17, 1922.

Ser. No. 171,049. (CLASS 39. CLOTHING.) WALNOTT KNITTING COMPANY, Utica, N. Y. Filed Oct. 21, 1922.

Baby Bye

Particular description of goods.—Infants' Wrappers.
Claims use since May 11, 1922.

Ser. No. 171,243. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SANDVIKSTAHL G. M. B. H., Ohligs, Germany. Filed Oct. 26, 1922.

SASTACO

Particular description of goods.—Razor Blades.
Claims use since May 11, 1922.

Ser. No. 171,287. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MAX SELBACH, Pforzheim-Dillstein, Germany. Filed Oct. 27, 1922.

Silverin

Particular description of goods.—Strings for Violins and Similar Musical Instruments.
Claims use since Dec. 5, 1921.

Ser. No. 171,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHENIA TAYLOR, Jeffersonville, Ind. Filed Nov. 2, 1922.



ARTHENIA TAYLOR

The portrait being that of the applicant.
Particular description of goods.—Hair Grower, Hair Tonic, Shampoo, Tetter Salve, Temple Grower, Hair-Straightening Oil, and Cold Creams.
Claims use since May 1, 1921.

Ser. No. 171,691. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL EISEMAN & CO., INC., New York, N. Y. Filed Nov. 7, 1922.

"RADIETTE"

Trade-mark consists of the word "Radiette."
Particular description of goods.—Silk Piece Goods and Silk and Cotton Mixture Piece Goods.
Claims use since Oct. 10, 1922.

Ser. No. 171,720. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PETER AMSTERDAM, doing business as The Amsterose Co., Philadelphia, Pa., and New York, N. Y. Filed Nov. 8, 1922.

"LYKA"

Particular description of goods.—Shaving Cream.
Claims use since about Sept. 15, 1922.

Ser. No. 171,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABBOTT WORTHLEY, Marlboro, N. J. Filed Nov. 9, 1922.

BLACK BEAR



In the drawing the crossed series of lines represents black; also simulates the woven textile on which the trade-mark is stenciled.
Particular description of goods.—Fresh Potatoes.
Claims use since about July 1, 1921.

Ser. No. 171,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ABILENE FLOUR MILLS CO., Abilene, Kans. Filed Nov. 10, 1922.



Particular description of goods.—Wheat Flour.
Claims use since Sept. 28, 1922.

Ser. No. 171,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed Nov. 11, 1922.

FLEURS D'AMOUR

Particular description of goods.—Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair, and Perfumery.
Claims use since Apr. 18, 1902.

Ser. No. 171,988. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FABRIK STOLSENBERG DEUTSCHE BUREAU-EINRICHTUNGS-GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Oos, Germany. Filed Nov. 14, 1922.

„Fortuna"

Particular description of goods.—Typewriting Machines and Parts Thereof and Mechanical Copying Machines.
Claims use since 1906.

Ser. No. 172,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILK PRODUCERS ASSOCIATION OF CENTRAL CALIFORNIA, Modesto, Calif. Filed Nov. 20, 1922.

Modesto M.P.A.C.C.

No claim is made to the use of the word "Modesto" apart from the other features of the mark as shown.
Particular description of goods.—Butter.
Claims use since Jan. 1, 1912.

Ser. No. 172,335. (CLASS 39. CLOTHING.) JACOB JAMISON, Philadelphia, Pa. Filed Nov. 21, 1922.

Ker Del CLOTHES

No claim is made to the word "Clothes."
Particular description of goods.—Outer Suits for Men and Boys.
Claims use since Jan. 1, 1922.

Ser. No. 172,340. (CLASS 39. CLOTHING.) MORRIS LEVY CLOTHING CO., INC., New York, N. Y. Filed Nov. 21, 1922.

BOND STREET

Particular description of goods.—Suits, Trousers, Coats, Topcoats, Raincoats, Overcoats, and Vests.
Claims use since May 1, 1921.

Ser. No. 172,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUALITY SPECIALTY COMPANY, Worcester, Mass. Filed Nov. 22, 1922.

SUNNYRIVER

Particular description of goods.—Salad Dressings, Mayonnaise Dressings, Horse-Radish Relishes, and Mustard Relishes.
Claims use since Nov. 15, 1922.

Ser. No. 172,435. (CLASS 39. CLOTHING.) THE A. E. PITTS SHOE CO., Columbus, Ohio. Filed Nov. 23, 1922.

FOOT GIDE

Particular description of goods.—Shoes of Leather, Fabric, and Rubber, Leather and Rubber, and Leather and Fabric.
Claims use since Oct. 1, 1921.

Ser. No. 172,436. (CLASS 39. CLOTHING.) THE A. E. PITTS SHOE CO., Columbus, Ohio. Filed Nov. 23, 1922.

PEDICATOR

Particular description of goods.—Shoes of Leather, Fabric, and Rubber, Leather and Rubber, and Leather and Fabric.
Claims use since Oct. 1, 1921.

Ser. No. 172,437. (CLASS 39. CLOTHING.) THE A. E. PITTS SHOE CO., Columbus, Ohio. Filed Nov. 23, 1922.

YOUTHLYNE

Particular description of goods.—Shoes of Leather, Fabric, and Rubber, Leather and Rubber, and Leather and Fabric.
Claims use since Oct. 1, 1921.

Ser. No. 172,438. (CLASS 39. CLOTHING.) THE A. E. PITTS SHOE CO., Columbus, Ohio. Filed Nov. 23, 1922.

WATCHMWEARM

Particular description of goods.—Shoes of Leather, Fabric, and Rubber, Leather and Rubber, and Leather and Fabric.
Claims use since Oct. 1, 1921.

Ser. No. 172,453. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Nov. 23, 1922.

SWATEM

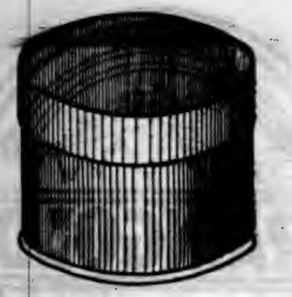
Particular description of goods.—Implements for Killing and Disabling Insects, Flies, and the Like.
Claims use since Feb. 1, 1920.

Ser. No. 172,486. (CLASS 12. CONSTRUCTION MATERIALS.) MOONEY, DOUGLAS & PEARSON, INC., New York, N. Y. Filed Nov. 24, 1922.

MODOPEAR

Trade-mark "Modopear."
Particular description of goods.—Asphalt Roofing, Slate Surfaced and Talc Surfaced.
Claims use since Oct. 13, 1922.

Ser. No. 172,494. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWARD REESE, doing business as Standard Crystal Company, Newark, N. J. Filed Nov. 24, 1922.



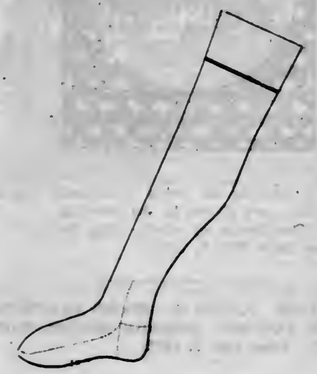
The mark consists in arbitrarily coloring the cover and side walls of the crystal container red, leaving the rim and bottom in natural color—for example, that of tin—no claim being made to the representation of the container.
Particular description of goods.—Detector Crystals Used in Wireless Receiving Sets.
Claims use since on or about Apr. 15, 1922.

Ser. No. 172,521. (CLASS 39. CLOTHING.) CONCORDIA SILK HOSIERY COMPANY, Philadelphia, Pa. Filed Nov. 25, 1922.

RED LINE

Particular description of goods.—Hosiery.
Claims use since on or about Nov. 20, 1922.

Ser. No. 172,522. (CLASS 39. CLOTHING.) CONCORDIA SILK HOSIERY COMPANY, Philadelphia, Pa. Filed Nov. 25, 1922.



Trade-mark consists of a red stripe or band encircling the stocking as shown. The stocking shown in drawing forms no part of mark.
Particular description of goods.—Hosiery.
Claims use since fall of 1913.

Ser. No. 172,558. (CLASS 39. CLOTHING.) PAULINE ROSTOLD, New York, N. Y. Filed Nov. 25, 1922.

Forget Me Not

Particular description of goods.—Infants' and Children's Dresses, Rompers, Overslips, and Petticoats.
Claims use since July 1, 1922.

Ser. No. 172,632. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ABRAHAM BURNSTINE, Washington, D. C. Filed Nov. 28, 1922.

MIN-SEC

Particular description of goods.—Watches, Clocks, Chronometers, and Parts for Same.
Claims use since Aug. 15, 1922.

Ser. No. 172,640. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DAVIS-SMITH COMPANY, Boston, Mass. Filed Nov. 28, 1922.

THE AMERICAN NEWSPAPER ALMANAC

Trade-mark "The American Newspaper Almanac."
Particular description of goods.—Yearly Almanac.
Claims use since May 18, 1922.

Ser. No. 172,643. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DAVID FEINBURG COMPANY, doing business as Snappee Co., Chelsea, Mass. Filed Nov. 28, 1922.

SNAPPEE

Trade-mark "Snappee."
Particular description of goods.—Spring Covers and Grease Boots.
Claims use since Sept. 16, 1922.

Ser. No. 172,670. (CLASS 39. CLOTHING.) JACOB GERHARDT & COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 29, 1922.



Particular description of goods.—Outer, Negligee, and Work Shirts for Men.
Claims use since about Nov. 22, 1922.

Ser. No. 172,792. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLACK BROS. FLOUR MILLS, Beatrice, Nebr. Filed Dec. 1, 1922.



Particular description of goods.—Poultry Feed.
Claims use since Aug. 10, 1922.

Ser. No. 172,817. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Dec. 2, 1922.

Balmar

Particular description of goods.—Knitted Underwear, Sweaters, and Bathing Suits for Men, Women, and Children.
Claims use since September, 1922.

Ser. No. 172,839. (CLASS 39. CLOTHING.) THE JAY GARMENT COMPANY, Portland, Ind. Filed Dec. 2, 1922.



No claim made to the words "Work Shirts."
Particular description of goods.—Work Shirts.
Claims use since August, 1921.

Ser. No. 172,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM ZOLLER COMPANY, Pittsburgh, Pa. Filed Dec. 4, 1922.



No claim is made for the word "Brand" appearing in mark shown on the drawing filed with application.
Particular description of goods.—Skinned Hams, Regular Hams, and Breakfast Bacon.
Claims use since Dec. 1, 1907.

Ser. No. 172,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILLING COMPANY, Peoria, Ill. Filed Dec. 5, 1922.



No claim is made to the words "Buttermilk Egg Mash" apart from the mark shown in the drawing.
Particular description of goods.—Egg Mash.
Claims use since May 1, 1921.

Ser. No. 172,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILLING COMPANY, Peoria, Ill. Filed Dec. 5, 1922.



No claim made to the words "Buttermilk Chick Mash" apart from the mark shown in the drawing.
Particular description of goods.—Chick Mash.
Claims use since May 1, 1921.

Ser. No. 172,971. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN MOTORSIGN COMPANY, Cincinnati, Ohio. Filed Dec. 6, 1922.

MOTORSIGN

Particular description of goods.—Moving-Advertisement Projection Machines.
Claims use since May 26, 1921.

Ser. No. 172,988. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GROVE PARK INN, INC., doing business as Biltmore Industries, Asheville, N. C. Filed Dec. 6, 1922.



Particular description of goods.—Woolen Homespun Textile Fabrics in the Piece.
Claims use since about Nov. 1, 1918.

Ser. No. 173,062. (CLASS 39. CLOTHING.) WILLIAM R. WETHERHOLD, doing business as Reading Textiles, Reading, Pa. Filed Dec. 7, 1922.



PAGODA HOSE

No claim to the words "Peak of Quality" and "Hose" is made apart from the mark as shown.
Particular description of goods.—Hosiery for Men and Women.
Claims use since Oct. 1, 1922.

Ser. No. 173,126. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARLITH COMPANY, San Francisco, Calif. Filed Dec. 9, 1922.



The word "Waterproofing" is disclaimed apart from the trade-mark as used.
Particular description of goods.—Liquid Waterproofing Composition Which Can Be Applied to Any Surfaces That Will Absorb Water, Such as Canvas, Wood, Brick, and Other Materials.
Claims use since June 7, 1922.

Ser. No. 173,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SYMNS GROCER CO., Atchison, Kans. Filed Dec. 9, 1922.

TILLER

Particular description of goods.—Canned Fruits and Vegetables, Canned Fish.
Claims use since Nov. 29, 1922.

Ser. No. 173,214. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SALOMON & WIENER, INC., New York, N. Y. Filed Dec. 11, 1922.



Particular description of goods.—Fur.
Claims use since Oct. 1, 1922.

Ser. No. 173,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed Dec. 12, 1922.

KANSANA

Particular description of goods.—Wheat Flour.
Claims use since July 29, 1915.

Ser. No. 173,355. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HICKS CORPORATION, Pittsburgh, Pa. Filed Dec. 15, 1922.

RITE-WAY

Particular description of goods.—Manually-Operated Dish-Washing Machines.
Claims use since Apr. 25, 1922.

Ser. No. 173,356. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE HOOVEN, OWENS, RENTSCHLER COMPANY, Hamilton, Ohio. Filed Dec. 15, 1922.

DAMARA

Particular description of goods.—Piston Rings.
Claims use since Aug. 23, 1922.

Ser. No. 173,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTIS ORCHARDS APPLE COMPANY, Otis Orchards, Wash. Filed Dec. 15, 1922.



In the drawing the upper portion of the trade-mark and a triangular portion of each side thereof is colored blue. The apple is shown upon a yellow circular field, and from this circular field narrow red stripes and wider yellow stripes radiate. The word "Norwester" is shown as printed in red.
Particular description of goods.—Fresh Apples.
Claims use since Sept. 20, 1922.

Ser. No. 173,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURNHAM & MORRILL COMPANY, Portland, Me. Filed Dec. 16, 1922.

B & M

Particular description of goods.—Fish Cakes, Codfish Cakes, Clams, Clam Chowder, Clam Juice, Canned Fish, Alimentary Paste Products, Kippered Herring, Lobster Paste, Lima Beans, Canned Fruits, Canned Vegetables, Beans and Pork, Brown Bread, Cranberry Sauce, Lobsters.
Claims use since 1908.

Ser. No. 173,421. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. C. HALL INC., Rochester, N. Y. Filed Dec. 16, 1922.

BLUE CIRCLE

Particular description of goods.—Dried Fruits.
Claims use since Nov. 15, 1922.

Ser. No. 173,459. (CLASS 39. CLOTHING.) THE BAMBERGER REINTHAL COMPANY, Cleveland, Ohio. Filed Dec. 18, 1922.

3-4-1 THREE CAPS IN ONE

No claim is made to the words "Three Caps in One" apart from the mark as shown. The lining on the drawing represents the color red.
Particular description of goods.—Caps for Men, Women, and Children.
Claims use since October, 1920.

Ser. No. 173,522. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NETHERLANDS CORPORATION FOR OVERSEA TRADE, INC., New York, N. Y. Filed Dec. 18, 1922.

N C O T

Trade-mark consists of the word "N C O T."
Particular description of goods.—Kapok and Crude Rubber.
Claims use since about June, 1920.

Ser. No. 173,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NETHERLANDS CORPORATION FOR OVERSEA TRADE, INC., New York, N. Y. Filed Dec. 18, 1922.

N C O T

Trade-mark consists of the word "N C O T."
Particular description of goods.—Sugar, Rice, Pepper, Coffee, Spices, and Condiments.
Claims use since about June, 1920.

Ser. No. 173,524. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NETHERLANDS CORPORATION FOR OVERSEA TRADE, INC., New York, N. Y. Filed Dec. 18, 1922.

N M V O

Trade-mark consists of the word "N M V O."
Particular description of goods.—Kapok and Crude Rubber.
Claims use since about June, 1920.

Ser. No. 173,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NETHERLANDS CORPORATION FOR OVERSEA TRADE, INC., New York, N. Y. Filed Dec. 18, 1922.

N M V O

Trade-mark consists of the word "N M V O."
Particular description of goods.—Sugar, Rice, Pepper, Coffee, Spices, and Condiments.
Claims use since about June, 1920.

Ser. No. 173,527. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PARKS & PARKS, INC., Troy, N. Y. Filed Dec. 18, 1922.

P & P

Particular description of goods.—Shoe Brushes.
Claims use since on or about Jan. 1, 1892.

Ser. No. 173,529. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PARKS & PARKS, INC., Troy, N. Y. Filed Dec. 18, 1922.

PEOPLES

Particular description of goods.—Shoe Brushes.
Claims use since on or about Jan. 1, 1892.

Ser. No. 173,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. L. HULBERT, doing business as California Jely-Juce Company, San Jose and Santa Clara, Calif. Filed Dec. 21, 1922.

FRUZERVE (JELY JUCE)

Applicant disclaims the exclusive right to the use of the words "Jely Juce" apart from the mark as shown.
Particular description of goods.—Pure Fruit or Berry Juice Combined with a Scientific Addition of Fruit Pectin or Other Natural Fruit Flavor, Color, and Acidity to Make Perfect Jelly.
Claims use since Sept. 30, 1922.

Ser. No. 173,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. F. KITTLE, doing business as A. F. Kittle & Co., Los Angeles, Calif. Filed Dec. 23, 1922.

BILTMORE

Particular description of goods.—Canned Fish, Fruit, and Vegetables.
Claims use since Sept. 7, 1922.

Ser. No. 173,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. B. SCULLY SYRUP COMPANY, Chicago, Ill. Filed Dec. 23, 1922.

SKOOKUM

Particular description of goods.—Sirup for Table Purposes.
Claims use since Oct. 9, 1922.

Ser. No. 173,803. (CLASS 39. CLOTHING.) HELEN EMILIE WOLF, New York, N. Y. Filed Dec. 23, 1922.

WOLFROCKS

Particular description of goods.—Ladies' and Children's Dresses.
Claims use since Oct. 15, 1922.

Ser. No. 173,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTRAL WISCONSIN CANNERIES, Beaver Dam, Wis. Filed Dec. 26, 1922.

Dew Maid

Particular description of goods.—Canned Goods—Namely, Peas.
Claims use since Feb. 1, 1922.

Ser. No. 173,848. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALEXANDER D. MEBANE, Lockhart, Tex. Filed Dec. 26, 1922. Under ten-year proviso.

MEBANE

Particular description of goods.—Selected Cottonseed of Different Varieties.
Claims use since June 1, 1890.

Ser. No. 173,849. (CLASS 39. CLOTHING.) S. MILLMAN & SON, INC., New York, N. Y. Filed Dec. 26, 1922.



No claim is made to the word "Hats" apart from the mark shown on the drawing. The portrait shown on the drawing is merely fanciful.
Particular description of goods.—Misses' and Children's Hats.
Claims use since Dec. 1, 1922.

Ser. No. 173,871. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIKE E. BOZEMAN, doing business as Hampton Medicine Company, Winnfield, La. Filed Dec. 27, 1922.



The portrait is that of Marion Younger, whose written consent to use his picture has been obtained.
Particular description of goods.—Liquid Preparation for the Treatment of Impure Blood, Such as Pimples, Old Sores, Eczema, Rough Skin, Rheumatism, Lame Back, Gout, and Lumbago.
Claims use since June 1, 1922.

Ser. No. 173,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAUERHOFER SÖHNE & Co., Trubschachen, near Langnau, Switzerland. Filed Dec. 28, 1922.



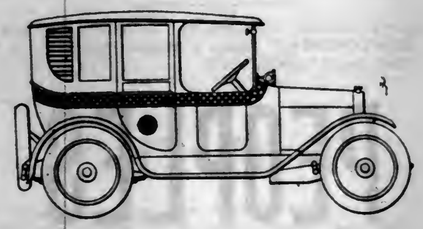
With the exception of the words "Pearl of Alps" and the words "Mauerhofer Sons & Co." no claim is made to the other wording appearing on the mark except as shown in connection therewith.
Particular description of goods.—Cheese and Preserved Cheese of Swiss Origin.
Claims use since July 15, 1922.

Ser. No. 173,983. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Dec. 29, 1922.



Particular description of goods.—Rolled Oats.
Claims use since 1902.

Ser. No. 173,988. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING Co., Chicago, Ill. Filed Dec. 29, 1922.



The trade-mark comprises a border consisting of three rows of alternately-arranged black and white checkers

extending completely around the tonneau of the taxicab in a generally horisontal direction and a pair of concentric circles on each side of the body of the taxicab, the inner circle of which contains a symbol of black and white checkers. No claim is made to the representation of a vehicle apart from the mark shown on the drawing.
Particular description of goods.—Motor-Driven Passenger Vehicles—Namely, Automobile Taxicabs.
Claims use since June, 1920.

Ser. No. 173,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN DEALERS TRADING CORPORATION, Huntington, Pa. Filed Dec. 30, 1922.

AMDETRA

Particular description of goods.—Wheat Flour.
Claims use since Mar. 6, 1922.

Ser. No. 173,992. (CLASS 39. CLOTHING.) ATLANTIC OVERALL & SHIRT Co., Philadelphia, Pa. Filed Dec. 30, 1922.



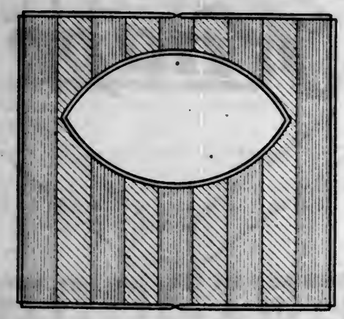
No claim made to the words "Trousers, Shirts, Overalls" apart from the mark as shown.
Particular description of goods.—Overalls, Trousers, and Work Shirts.
Claims use since Dec. 4, 1922.

Ser. No. 174,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM PERKINS, doing business as Midland Creamery Co., St. Louis, Mo. Filed Dec. 30, 1922.

MIDLAND VALLEY

Particular description of goods.—Butter.
Claims use since Mar. 1, 1920.

Ser. No. 174,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES D. CALVERLEY, doing business as C. D. Calverley & Co., East St. Louis, Ill. Filed Jan. 2, 1923.



The drawing is lined for alternate vertical strips of red and green.
Particular description of goods.—Corn Meal.
Claims use since Dec. 1, 1921.

Ser. No. 174,071. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL NOVELTY Co., INC., New York, N. Y. Filed Jan. 2, 1923.

CENOCO

Particular description of goods.—Colors for Frosting Lamps.
Claims use since on or about Oct. 25, 1921.

Ser. No. 174,080. (CLASS 39. CLOTHING.) ABRAM C. HULSE, Jr., New York, N. Y. Filed Jan. 2, 1923.

U-LIKE-M

Particular description of goods.—Hosiery.
Claims use since June 15, 1922.

Ser. No. 174,082. (CLASS 12. CONSTRUCTION MATERIALS.) KNAPP BROTHERS MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 2, 1923.

Knapp

Particular description of goods.—Bull-Nose Corner Beads, Small-Nose Corner Beads, Rail Corner Beads, Metal Corner-Bead Clips, Cove Metal Bases, Flat Metal Bases, Metal Base for Carrying Electric Wires, Metal Cove for Wood Base, Metal Corner Fittings for Base, Metal Door Fittings for Base, Flush Metal Door Casings, Metal Door Frames, Metal Door Casings, Metal Doors, Flush Metal Window Trims, Splay Metal Window Trims, Metal Window Stools, Cove Metal Corners for Window Openings, Metal Chalk Trough for Blackboards, Metal Trim for Blackboards, Metal Base Grounds, Metal Base Screeds, Metal Corners for Base Grounds, Metal Corners for Base Screeds, Metal Wall Ties, Metal Studs for Lath and Plaster Partitions, Metal Studs for Plaster-Board Partitions, Metal Studs for Wall-Board Partitions, Metal Plaster Bond for Concrete Surfaces, Concealed Metal Picture Molds, Metal Moldings, Metal Radiator Protectors, Metal Stone Anchors, Metal Chair Rails, Metal Corner Fittings for Chair Rails and Metal Door Fittings for Chair Rails.
Claims use since July 1, 1920.

Ser. No. 174,101. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.

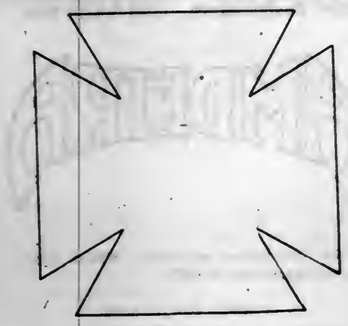
MOGUL



Particular description of goods.—Mixed Stock Feed.
Claims use since 1913.

Ser. No. 174,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.

GREEN CROSS



Particular description of goods.—Horse Feed.
Claims use since 1911.

Ser. No. 174,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.

HORSE POWER



Particular description of goods.—Horse Feed.
Claims use since 1914.

Ser. No. 174,105. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 2, 1923.

GOLDEN SWEET

Particular description of goods.—Stock Feed.
Claims use since 1914.

Ser. No. 174,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. J. TOOMEY PRODUCE CO., Spearfish, S. Dak., and Newcastle, Wyo. Filed Jan. 4, 1923.

WYOMING'S BEST

No claim is made for the words "Wyoming's Best" apart from the mark as shown.
Particular description of goods.—White and Graham Flour Made from Wheat and Corn Meal.
Claims use since about July 1, 1909.

Ser. No. 174,233. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE CHEMITEX PRODUCTS COMPANY, Akron, Ohio. Filed Jan. 6, 1923.

CHEMICAL SCIENCE CHEMITEX CORRECTLY APPLIED

No claim made to the words "Chemical Science Correctly Applied" aside from the mark shown.
Particular description of goods.—Artificial Patent and Suede Leather and Rubber-Surface Cloth.
Claims use since August, 1922.

Ser. No. 174,289. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) L. C. CHASE & COMPANY, Boston, Mass. Filed Jan. 8, 1923.

Agrippa

Particular description of goods.—Rug and Carpet Holders to Prevent Slipping of the Rugs and Carpet on Floors and Materials for Said Holders Therefor.
Claims use since Nov. 21, 1922.

Ser. No. 174,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind. Filed Jan. 8, 1923.

HOOSIER

Particular description of goods.—Scratch Feed for Poultry.
Claims use since Apr. 22, 1922.

Ser. No. 174,316. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANHATTAN BAKING POWDER CO., New York, N. Y. Filed Jan. 8, 1923.

O=SA

Particular description of goods.—Cocoa Pudding and Cornstarch.
Claims use since May 15, 1922.

Ser. No. 174,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Jan. 8, 1923.

FAMILY CIRCLE

Particular description of goods.—Flour Made From Wheat.
Claims use since on or about June 22, 1922.

Ser. No. 174,335. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 8, 1923.

SAXON

Particular description of goods.—Rolled Oats and Wheat Food.
Claims use since 1900.

Ser. No. 174,338. (CLASS 39. CLOTHING.) D. SALWEN & CO. INC., New York, N. Y. Filed Jan. 8, 1923.

RED HEAD



The representation of a boy's head is fanciful.
Particular description of goods.—Boys' Stockings.
Claims use since October, 1921.

Ser. No. 174,404. (CLASS 39. CLOTHING.) MOORHEAD KNITTING COMPANY, Harrisburg, Pa. Filed Jan. 10, 1923.

Herco

Particular description of goods.—Hosiery.
Claims use since Dec. 1, 1915.

Ser. No. 174,409. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL S. POWELL, Winterset, Iowa. Filed Jan. 10, 1923.

BLUTINT

Particular description of goods.—Insecticide for Fowls.
Claims use since Nov. 26, 1922.

Ser. No. 174,412. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J. Filed Jan. 10, 1923.

"BOREALIS"

Particular description of goods.—Silk Piece Goods.
Claims use since Dec. 9, 1922.

Ser. No. 174,428. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DA ROZA-DOHERTY COMPANY, San Francisco, Calif. Filed Jan. 11, 1923.

SUN-BLEST

Particular description of goods.—Dried Fruits, Canned Fruits, Dried Vegetables, Canned Vegetables, Fresh Grapes, Fresh Melons, Fresh Oranges, Cantaloupes, Olives, Olive Oil, Maraschino Cherries, Honey, Peanut Butter, Mincemeat, Gherkins, Jellies, Jams, Preserved Fruits, Marmalades, Salted Nuts.
Claims use since Dec. 21, 1922.

Ser. No. 174,433. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. & E. FRENKEL, INC., New York, N. Y. Filed Jan. 11, 1923.

Julietta

Particular description of goods.—Flours—Namely, Wheat and Semolinas.
Claims use since Aug. 15, 1921.

Ser. No. 174,502. (CLASS 39. CLOTHING.) BENJAMIN WEISBERG, Philadelphia, Pa. Filed Jan. 11, 1923.

SPARKLE

Particular description of goods.—Neckties.
Claims use since May 20, 1922.

Ser. No. 174,520. (CLASS 37. PAPER AND STATIONERY.) HUFF, BARNES & OPIE, INC., Pittsburgh, Pa. Filed Jan. 12, 1923.

MALMÖ

Particular description of goods.—Wrapping Paper.
Claims use since Mar. 15, 1916.

Ser. No. 174,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED CHEMICAL COMPANIES, Kansas City, Mo. Filed Jan. 12, 1923.

DEODORANT DISINFECTANT No. 6 DISINFECTANT CLEANSER

No claim is made to the words "Deodorant," Disinfectant," and "Cleanser" apart from the mark shown in the accompanying drawing.
Particular description of goods.—Cleanser, Disinfectant, and Deodorizer.
Claims use since 1914.

Ser. No. 174,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TACOMA BISCUIT & CANDY COMPANY, Tacoma, Wash. Filed Jan. 13, 1923.

Mistletoe

Particular description of goods.—Candy—Namely, Chocolates.
Claims use since Aug. 15, 1922.

Ser. No. 174,607. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOYD, LUNHAM, & COMPANY, Chicago, Ill. Filed Jan. 15, 1923. Under ten-year proviso.

FREEMAN BRAND

Particular description of goods.—Lard.
Claims use since Jan. 1, 1895.

Ser. No. 174,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHFIELD FLOUR MILLS COMPANY, Northfield, Minn. Filed Jan. 15, 1923.

ST. OLAF

Particular description of goods.—Wheat Flour.
Claims use since Dec. 8, 1922.

Ser. No. 174,668. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NULOID CORPORATION, Wilmington, Del., and New York, N. Y. Filed Jan. 16, 1923.

NULOID

Particular description of goods.—Hard-Rubber Composition.
Claims use since July 10, 1922.

Ser. No. 174,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Jan. 18, 1923.

"ZO"

Particular description of goods.—Cereal Breakfast Food.
Claims use since Dec. 1, 1922.

Ser. No. 174,724. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHALLENGE COMPANY, Batavia, Ill. Filed Jan. 18, 1923.



Particular description of goods.—Windmills, Gasoline Engines, Windmill Pumps, Siphon Pumps, and Horizon-

tal Reciprocating Power Pumps, Pump Jacks, Feed Grinders for Grinding Corn, Wheat, Barley, Rye, and Oats; Corn Shellers, Ensilage Cutters, Oil Engines, and Well-Cylinder Working Heads.

Claims use since 1904.

Ser. No. 174,730. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed Jan. 18, 1923.

3 in 1

Particular description of goods.—Sheet-Metal and Asbestos Gaskets.

Claims use since July 14, 1922.

Ser. No. 174,768. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUGH F. DICKSON, Covington, Tenn. Filed Jan. 19, 1923.

Dr. H. F. Dickson's Pneumonia Salve

No registration rights are claimed for the words "Pneumonia Salve" apart from the mark shown in the drawing, but applicant waives none of his common-law rights in said mark or any element thereof. The name in the trade-mark is facsimile of applicant's signature.

Particular description of goods.—Salve for the Treatment of Pneumonia, Influenza, Croup, Asthma, and Colds.

Claims use since Dec. 22, 1922.

Ser. No. 174,776. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Jan. 19, 1923.

Silverbrook

Particular description of goods.—Butter.

Claims use since Dec. 1, 1921.

Ser. No. 174,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 20, 1923.

CARNIVAL

The lining in the drawing is intended to indicate yellow color for the border and the word "Carnival" and pink for the ground within the border.

Particular description of goods.—Lip Pastes and Lip Pencils.

Claims use since Aug. 8, 1916.

Ser. No. 174,844. (CLASS 39. CLOTHING.) MANCHESTER KNITTING MILLS, INC., Los Angeles, Calif. Filed Jan. 20, 1923.

Seaworthy

Particular description of goods.—Men's, Women's, and Children's Knitted and Textile Bathing Suits.

Claims use since Sept. 19, 1922.

Ser. No. 174,854. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Jan. 20, 1923.

Vari-e-tea

Particular description of goods.—Fancy Cookies.

Claims use since Oct. 13, 1922.

Ser. No. 174,884. (CLASS 39. CLOTHING.) BEST & CO. INC., New York, N. Y. Filed Jan. 22, 1923.

PALETOT

Particular description of goods.—Women's and Misses' Furnishings and Clothing—Namely, Coats, Suits, Dresses, and Blouses Made Out of Textile Material, and Coats, Suits, Dresses, and Blouses Made Out of Knitted Material.

Claims use since Jan. 7, 1923.

Ser. No. 174,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUSTE BLANCHETTE, Pawtucket, R. I. Filed Jan. 22, 1923.

ADANAC

Trade-mark consists of the word "Adanac."

Particular description of goods.—Ointment for External Use for Cuts, Bruises, Sprains, and Eruptions.

Claims use since Dec. 15, 1922.

Ser. No. 174,895. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE EDELSTEIN COMPANY, New York, N. Y. Filed Jan. 22, 1923.

Edelco Watches
Pre-Eminent by Comparison

The words "Watches" and "Pre-Eminent by Comparison" are disclaimed.

Particular description of goods.—Watches and Watchcases.

Claims use since about Jan. 4, 1923.

Ser. No. 174,909. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH AMERICAN MERCANTILE CO., INC., San Francisco, Calif. Filed Jan. 22, 1923.

JUNE BRIDE

Particular description of goods.—Canned Fish, Fruit, and Vegetables.

Claims use since Oct. 15, 1922.

Ser. No. 174,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 22, 1923.

IMPERIAL

Particular description of goods.—Rolled Oats and Oatmeal.

Claims use since 1889.

Ser. No. 174,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 22, 1923.

VALLEY

Particular description of goods.—Wheat Flour.

Claims use since 1871.

Ser. No. 174,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 22, 1923.

LAKE

Particular description of goods.—Wheat Flour.

Claims use since 1871.

Ser. No. 174,921. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 22, 1923.

BIG EGG

Particular description of goods.—Poultry Feed.

Claims use since 1914.

Ser. No. 174,980. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) PHOEBE SMITH, Detroit, Mich. Filed Jan. 23, 1923.

PHOEBE'S VISION

Particular description of goods.—Lamp Shades.

Claims use since Jan. 3, 1923.

Ser. No. 174,994. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed Jan. 24, 1923.

Poudre Celimene

No claim is made to the exclusive use of the word "Poudre" apart from the mark shown in the drawing.
Particular description of goods.—Cold-Cream Powder.
Claims use since Dec. 16, 1922.

Ser. No. 175,000. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. M. A. CHACON, doing business as The Chacon Trading Company, New York, N. Y. Filed Jan. 24, 1923.

RUBPRON

Particular description of goods.—Hydrocarbon Materials or Asphaltum Products—Namely, Mineral Rubber Used as a Filler in Rubber Compounding, Asphaltum Used as a Base for the Manufacture of Asphalt Paints and Varnish, Battery-Sealing Compound for Sealing Cell Batteries.
Claims use since 1915.

Ser. No. 175,007. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAGGETT & MILLER CO. INC., Providence, R. I. Filed Jan. 24, 1923.

HAIROGEN

Trade-mark consists of the word "Hairogen."
Particular description of goods.—Hair Tonics.
Claims use since January, 1916.

Ser. No. 175,025. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI RIGAUD, doing business as Rigaud, Paris, France, and New York, N. Y. Filed Jan. 24, 1923.

MINENA

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Rouge, Face Creams, Sachet, Bath Salts, Smelling Salts, Breath Pastils, Brilliantine, Dentifrices, Eyebrow Pencils, Hair Tonic, Face Lotion, Nail Polish, Shampoo.
Claims use since 1909.

Ser. No. 175,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN R. THOMPSON CO., Chicago, Ill. Filed Jan. 24, 1923.

GREEN FRONT

Particular description of goods.—Canned Vegetables.
Claims use since September, 1922.

Ser. No. 175,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZAGAT INC., New York, N. Y. Filed Jan. 24, 1923.

CASTROCOL

The CHOCOLATE Castor Oil

Applicant disclaims exclusive right to the use of the words "The Chocolate Castor Oil" apart from the mark shown on the drawing.
Particular description of goods.—Laxative.
Claims use since Aug. 1, 1921.

Ser. No. 175,073. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ALBERT DICKINSON COMPANY, Chicago, Ill. Filed Jan. 25, 1923.

PINE TREE

Particular description of goods.—Poultry Feed.
Claims use since Oct. 1, 1807.

Ser. No. 175,074. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ALBERT DICKINSON COMPANY, Chicago, Ill. Filed Jan. 25, 1923.

COLONIAL

Particular description of goods.—Dairy Feed.
Claims use since Jan. 22, 1906.

Ser. No. 175,082. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HERGY COMPANY, Hillsboro, Tex. Filed Jan. 25, 1923.

Hergy Salve

No claim is made for the word "Salve" apart from the mark shown on the drawing. Trade-mark includes a facsimile of the signature of Herschell G. Guy, a member of the firm.
Particular description of goods.—Salve for the treatment of eczema, piles, tetter, ringworm, pimples, and itch in all forms.
Claims use since Sept. 1, 1921.

Ser. No. 175,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES L. JONES, St. Louis, Mo. Filed Jan. 25, 1923.

DEVILON

Particular description of goods.—Insecticide for Roaches, Water Bugs, Ants, Bedbugs, Etc.
Claims use since about Jan. 1, 1920.

Ser. No. 175,087. (CLASS 39. CLOTHING.) KRUEGER-TOBIN CO., INC., New York, N. Y. Filed Jan. 25, 1923.

Piccadilly

Particular description of goods.—Hosiery.
Claims use since Jan. 15, 1923.

Ser. No. 175,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MIDLAND FLOUR MILLING CO., Kansas City, Mo. Filed Jan. 25, 1923.

LA GIACONDA

Particular description of goods.—Wheat Flour.
Claims use since Oct. 9, 1922.

Ser. No. 175,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEBRASKA MILL & ELEVATOR CO., North Platte, Nebr. Filed Jan. 25, 1923.

SIOUX LOOKOUT

Particular description of goods.—Wheat Flour.
Claims use since August, 1922.

Ser. No. 175,102. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLLAND O'NEAL MILLING CO., Mount Vernon and Springfield, Mo. Filed Jan. 25, 1923.

PROTECTOR

Particular description of goods.—Wheat Flour.
Claims use since Oct. 21, 1922.

Ser. No. 175,110. (CLASS 39. CLOTHING.) C. B. SHANE CO., Chicago, Ill. Filed Jan. 25, 1923.

"SERVALL"

Particular description of goods.—Raincoats and Topcoats.
Claims use since on or about Jan. 10, 1923.

Ser. No. 175,112. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TEKNA, Springfield, Mass. Filed Jan. 25, 1923.

TEKNA

Particular description of goods.—Shampoos, Hair Tonic, Perfume, Skin Creams, Talcum Powders, Deodorants, Liniments, and Dentifrices.
Claims use since Jan. 2, 1923.

Ser. No. 175,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH BRUECK, doing business as Glossine Chemical Co., New York, N. Y. Filed Jan. 26, 1923.

FLIP



Particular description of goods.—Composition of Matter Used for Facilitating the Extraction of Hairs From the Faces and Hands of Human Beings.
Claims use since Jan. 15, 1911.

Ser. No. 175,138. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) JOSEPH FLASHNER, doing business as Hirsch & Flashner, New York, N. Y. Filed Jan. 26, 1923.

ELMAR

Particular description of goods.—Pearls and Artificial Pearls.
Claims use since on or about Sept. 1, 1921.

Ser. No. 175,142. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRANDE MAISON DE BLANC, INC., New York, N. Y. Filed Jan. 26, 1923.

GRANDE MAISON de BLANC

Particular description of goods.—Handkerchiefs, Lace Trimmings, Ribbons, Edgings, Nets, Doilies, Napkins, Tablecloths, Pillowcases, Sheets, Bedspreads, Bureau Covers, Piano Covers, Towels, Pillow Tops, Centerpieces, and Table Scarfs.
Claims use since about 1863.

Ser. No. 175,148. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. & J. MARTIN, Glasgow, Scotland. Filed Jan. 26, 1923.

ZUG

W. & J. Martin

The trade-mark, the essential particular of which is the signature, any right to exclusive use of the added matter being disclaimed.
Particular description of goods.—Leather.
Claims use since May 3, 1899.

Ser. No. 175,214. (CLASS 39. CLOTHING.) SCRANTON CAP MANUFACTURING COMPANY, Scranton, Pa. Filed Jan. 27, 1923.



No claim is made for the use of the words "Cap" and "Fashioned in Scranton, Pa." apart from the mark shown on the drawing.
Particular description of goods.—Men's and Boys' Headwear—viz, Hats and Caps.
Claims use since Nov. 18, 1921.

Ser. No. 175,238. (CLASS 39. CLOTHING.) FRANKLIN KNITTING MILLS, INC., New York, N. Y. Filed Jan. 29, 1923.

"TYLITE"

Particular description of goods.—Knitted Scarfs and Bow Ties.
Claims use since about Dec. 1, 1922.

Ser. No. 175,241. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed Jan. 29, 1923.

PEP

Particular description of goods.—Wheat Flour.
Claims use since Jan. 12, 1923.

Ser. No. 175,255. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CREDE J. LOYD, doing business as C. J. Loyd & Co., Greensburg, Ind. Filed Jan. 29, 1923.

DECATUR

Particular description of goods.—Dressed Poultry and Eggs.
Claims use since Sept. 1, 1922.

Ser. No. 175,296. (CLASS 39. CLOTHING.) ANTOL M. BREIT, doing business as Crescent Rubber Specialty Company, Chicago, Ill. Filed Jan. 30, 1923.

CRESCENT "COMFY" BABY BLOOMERS

The words "Baby Bloomers" not claimed as part of the mark.
Particular description of goods.—Bloomers for Babies and Children.
Claims use since Dec. 1, 1922.

Ser. No. 175,403. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. MCDONAGH & SONS, New York, N. Y. Filed Feb. 1, 1923.

MAXOLINA

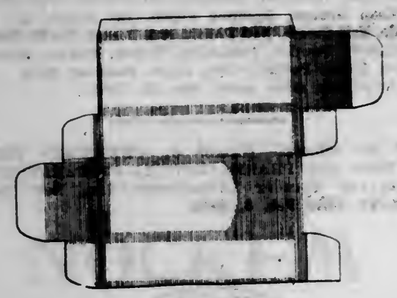
Trade-mark consists of the word "Maxolina."
Particular description of goods.—Disinfectants.
Claims use since June 1, 1922.

Ser. No. 175,427. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEIMBACH INCINERATOR CO., St. Paul, Minn. Filed Feb. 2, 1923.

THE HEIMBACH
20TH CENTURY INCINERATOR

No claim is made to the word "Incinerator" apart from the mark shown in the drawing.
Particular description of goods.—Incinerators.
Claims use since July 15, 1919.

Ser. No. 175,451. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORA HOLMES SHOEMAKER, doing business as The Frostilla Company, Elmira, N. Y. Filed Jan. 12, 1923.



The lining in the drawing denotes the color blue. Applicant does not claim for this registration any right to the exclusive use of the representation of the package except in the precise relation and association in which it appears in the drawing and description.
Particular description of goods.—Lotions for the Treatment of the Skin.
Claims use since about 1912.

Ser. No. 175,458. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOS. G. BAKER, Richmond, Va. Filed Feb. 3, 1923.

MOVIT

Particular description of goods.—Cleanser for All Kinds of Finished Surfaces, Such as Paint, Varnish, Tile, Glass, Etc.
Claims use since Jan. 1, 1923.

Ser. No. 175,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUSANNA COCROFT LABORATORIES INC., New York, N. Y. Filed Feb. 3, 1923.

Susanna Cocroft

The trade-mark is a facsimile of the signature of Susanna Cocroft.

Particular description of goods.—Perfume, Toilet Water, Sachet Powder, Face Powder, Rouge Compacts, Rouge Cream, Cold Cream, Vanishing Cream, Cleansing Cream, Massage Cream, Skin Tonic, Bleaching Cream, Astringent, Acne Powder, Complexion Meal, Hand Lotion, Hair Tonic, Antiseptic Hot Oil for Scalp, Scalp Stimulant, Scalp Ointment, Shampoo, Brilliantine, Eyebrow and Eyelash Grower, Eyebrow Pencil, Lip Rouge, Lip Pomade, Nail Cream, Nail Polish, Nail Bleach, Tooth Cream, Depilatory Powder, Deodorant, Talcum Powder, Balsam Balm, Solace Powder, Corn Salve, Smelling Salts.

Claims use since about Jan. 12, 1922.

Ser. No. 175,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUSANNA COCROFT LABORATORIES INC., New York, N. Y. Filed Feb. 3, 1923.



Particular description of goods.—Perfume, Toilet Water, Sachet Powder, Face Powder, Rouge Compacts, Rouge Cream, Cold Cream, Vanishing Cream, Cleansing Cream, Massage Cream, Skin Tonic, Bleaching Cream, Astringent, Acne Powder, Complexion Meal, Hand Lotion, Hair Tonic, Antiseptic Hot Oil for Scalp, Scalp Stimulant, Scalp Ointment, Shampoo, Brilliantine, Eyebrow and Eyelash Grower, Eyebrow Pencil, Lip Rouge, Lip Pomade, Nail Cream, Nail Polish, Nail Bleach, Tooth Cream, Depilatory Powder, Deodorant, Talcum Powder, Balsam Balm, Solace Powder, Corn Salve, Smelling Salts.

Claims use since about Jan. 12, 1922.

Ser. No. 175,471. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) DAVENPORT-TAYLOR MFG. COMPANY, Chicago, Ill. Filed Feb. 3, 1923.



Particular description of goods.—Interchangeable Cut to Shape Letters and Figures of Resilient Material.

Claims use since about Nov. 3, 1922.

Ser. No. 175,499. (CLASS 39. CLOTHING.) J. KAUFMAN & SONS, New York, N. Y. Filed Feb. 3, 1923.

'23 SKIDDOO

Trade-mark consists of the numerals and word "23 Skiddoo."

Particular description of goods.—Boys' Sport Caps.

Claims use since Jan. 5, 1923.

Ser. No. 175,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEANDER A. LEA, Bossier, La. Filed Feb. 3, 1923.

Cheaco

Particular description of goods.—Hair Tonic.

Claims use since Nov. 15, 1922.

Ser. No. 175,523. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS ROESSEL & CO. INC., New York, N. Y. Filed Feb. 3, 1923.

"Twilight"

Particular description of goods.—Crapes and Veilings in the Piece.

Claims use since Jan. 11, 1923.

Ser. No. 175,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDDINE MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 5, 1923.

No-Ru

Particular description of goods.—Medicinal Agents for the External Treatment of Bodily Pains.

Claims use since Jan. 23, 1923.

Ser. No. 175,551. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) GRINDLE FUEL EQUIPMENT COMPANY, Harvey, Ill. Filed Feb. 5, 1923.



No claim is made for the words "Powdered Coal" or "Grindle System" or "Fuel Efficiency" apart from other features of the mark shown.

Particular description of goods.—Apparatus for Preparing, Conveying, and Burning Comminuted Fuel.

Claims use since January, 1921.

Ser. No. 175,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM H. STEWART, New York, N. Y. Filed Feb. 6, 1923.

Roi De Laine

Trade-mark consists of the words "Roi De Laine."

Particular description of goods.—Woolen Fabrics.

Claims use since Aug. 19, 1921.

Ser. No. 175,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE WEBSTER JENNINGS, Chicago, Ill. Filed Feb. 7, 1923.



No registration rights are claimed for the words "Blossom" or "Chicago" apart from the mark shown in the drawing.

Particular description of goods.—Face Creams, Lotions, Manicuring Preparations, Perfumes, Toilet Waters, Rouges, Face Powder, Body Powder, Hair Tonic, Liniment, Depilatory, Mouth Washes, Dentifrices, and Shampoo.

Claims use since Jan. 1, 19 2.

Ser. No. 175,686. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Feb. 7, 1923.

GETEM

Particular description of goods.—Fly Swatters, Implements for Killing and Disabling Insects, Flies, and the Like.

Claims use since on or about Jan. 1, 1921.

Ser. No. 175,687. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Feb. 7, 1923.

SOAKEM

Particular description of goods.—Fly Swatters, Implements for Killing and Disabling Insects, Flies, and the Like.

Claims use since on or about Jan. 1, 1921.

Ser. No. 175,688. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Feb. 7, 1923.

NOCKEM

Particular description of goods.—Fly Swatters, Implements for Killing and Disabling Insects, Flies, and the Like.

Claims use since Jan. 1, 1921.

Ser. No. 175,717. (CLASS 39. CLOTHING.) FIELD & FLINT CO., Boston and Brockton, Mass. Filed Feb. 8, 1923.

UNIT

Trade-mark consists of the word "Unit."

Particular description of goods.—Shoes of Leather and Combinations of Leather and Fabric.

Claims use since Sept. 4, 1922.

Ser. No. 175,718. (CLASS 39. CLOTHING.) FIELD & FLINT CO., Boston and Brockton, Mass. Filed Feb. 8, 1923.

FIELD'S UNIT SHOE

No claim made for the word "Shoe" apart from the trade-mark as shown.

Particular description of goods.—Shoes of Leather and Combinations of Leather and Fabric.

Claims use since Sept. 4, 1922.

Ser. No. 175,720. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 8, 1923.

Silvertown

Particular description of goods.—Inner Tubes for Pneumatic Tires Made of Rubber.

Claims use since about May 1, 1922.

Ser. No. 175,740. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SAYRE-LEVEL RADIO COMPANY, Philadelphia, Pa. Filed Feb. 8, 1923.

EVERYTHING IN RADIO

The words "Everything in Radio" are disclaimed apart from the mark shown.

Particular description of goods.—Radio Apparatus and Parts Thereof.

Claims use since on or about June 1, 1921.

Ser. No. 175,770. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLE CHEMICAL COMPANY, St. Louis, Mo. Filed Feb. 9, 1923.

ORGAN-O-TONES

Particular description of goods.—General Tonic, Nerve Tonic, Tonic for Retarded Development of Children, an Ovarian Tonic; Preparations for Use in the Treatment of Hyperthyroidism, Goiter, Glandular Swellings, Deficient Milk Secretion, Disorders of the Kidneys, Disorders of the Prostate Gland, Metrorrhagia and Menorrhagia, Sexual Neurasthenia, and Asthma; and Preparations for the Relief of Vomiting and Nausea of Pregnancy, for the Relief of High Blood Pressure, for Neutralizing the Acid Wastes of the System, and for the Relief of too Profuse Menstruation.

Claims use since Oct. 7, 1921.

Ser. No. 175,783. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE FOGARTY MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 9, 1923.

RYT-SYDE-UP

Particular description of goods.—Tags.

Claims use since June 7, 1922.

Ser. No. 175,850. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PETER CIEPIELA, Fall River, Mass. Filed Feb. 10, 1923.



Peter Ciepiela

The photo and signature shown in the drawing represent the portrait and signature of applicant.

Particular description of goods.—Hand Soap.

Claims use since Dec. 2, 1922.

Ser. No. 175,923. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DEMING COMPANY, Salem, Ohio. Filed Feb. 12, 1923.

HYDRAERAM

Particular description of goods.—Pumps, Including Hydraulic Rams.

Claims use since about Oct. 15, 1899.

Ser. No. 175,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed Feb. 12, 1923.

FANCHON

Particular description of goods.—Face Powder.

Claims use since Dec. 22, 1922.

Ser. No. 176,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

HÉPATOCRINOL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

Ser. No. 176,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

ANDROCRINOL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

Ser. No. 176,006. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

CÉRÉBROCRINOL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

Ser. No. 176,007. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

GYNOCRINOL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

Ser. No. 176,009. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

AFATYL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

Ser. No. 176,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. ADAMS, New York, N. Y. Filed Feb. 14, 1923.

GYNOLUTÉOL

Particular description of goods.—Biotherapeutic and Opotherapeutic Products in Ampul and Pill Form.

Claims use since Feb. 5, 1922.

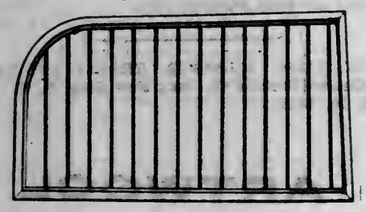
Ser. No. 176,021. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWARD ALFRED GRAHAM, doing business as Alfred Graham & Co., London, England. Filed Feb. 14, 1923.

AMPLION

Particular description of goods.—Telephonic Receivers.

Claims use since September, 1920.

Ser. No. 176,105. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed Feb. 15, 1923.



Particular description of goods.—Motor-Driven Passenger Vehicles—Namely, Automobile Taxicabs.

Claims use since Feb. 4, 1918.

Ser. No. 176,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOUNTAIN STATE LABORATORIES, Wheeling, W. Va. Filed Feb. 19, 1923.

SLEEKO

Particular description of goods.—Hair Dressing.
Claims use since Jan. 17, 1923.

Ser. No. 176,361. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Feb. 20, 1923.

GLASEPTIC

Particular description of goods.—Hypodermic Solutions in Glass Containers or Ampuls.
Claims use since about February, 1906.

Ser. No. 176,378. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

CALEDONIAN

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since January, 1920.

Ser. No. 176,380. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

ARTWOOL

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since January, 1917.

Ser. No. 176,462. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRAFFIN & DOLSON, New York, N. Y. Filed Feb. 23, 1923.

GOD

Particular description of goods.—Cretonnes in the Piece.
Claims use since May 7, 1918.

Ser. No. 176,492. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARRY MITCHELL, Chicago, Ill. Filed Feb. 23, 1923.

BANKER'S

Particular description of goods.—Cloth Commonly Known as "Serge" and Usually Sold by the Piece.
Claims use since Feb. 1, 1923.

Ser. No. 176,514. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 23, 1923.

RED TOP

Particular description of goods.—Calcined Gypsum Wall Plasters.
Claims use since Feb. 3, 1923.

Ser. No. 176,517. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE WAUREGAN COMPANY, Wauregan, Conn., and Providence, R. I. Filed Feb. 23, 1923. Under ten-year proviso.

WAUREGAN

Trade-mark consists of the word "Wauregan."
Particular description of goods.—Cotton Fabrics and Silk Fabrics in the Piece.
Claims use since about 1853.

Ser. No. 176,534. (CLASS 37. PAPER AND STATIONERY.) ROBERT W. BROOKS, doing business as Brooks Paper Company, St. Louis, Mo. Filed Feb. 24, 1923.

WEST INDIA CREAM TISSUE

The word "Tissue" is disclaimed apart from the mark.
Particular description of goods.—Stereotyping and Copying Tissue.
Claims use since Jan. 1, 1898.

Ser. No. 176,716. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BYARD F. BROGAN, Philadelphia, Pa. Filed Feb. 28, 1923.

B

Particular description of goods.—Finger Rings, Pendants, Scarfpins, Stick Pins, Bar Pins, Brooches, Bracelets, and Society Emblems Made of or Plated with Precious Metals.
Claims use since January, 1919.

Ser. No. 176,717. (CLASS 33. GLASSWARE.) BULLET PROOF & NON-SHATTERABLE GLASS CORPORATION, New York, N. Y. Filed Feb. 28, 1923.

ARMOR GLASS "True to its Name"

No claim is made for the word "Glass" appearing on the drawing.
Particular description of goods.—Glass.
Claims use since Apr. 27, 1922.

Ser. No. 176,718. (CLASS 33. GLASSWARE.) BULLET PROOF & NON-SHATTERABLE GLASS CORPORATION, New York, N. Y. Filed Feb. 28, 1923.

ARMOR

Particular description of goods.—Glass.
Claims use since Apr. 27, 1922.

Ser. No. 176,955. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DETROIT LUBRICATOR COMPANY, Detroit, Mich. Filed Mar. 5, 1923. Under ten-year proviso.

DETROIT

Particular description of goods.—Locomotive Lubricators, Stationary Lubricators, Valve and Oil Cups.
Claims use since about 1894.

Ser. No. 177,063. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANACONDA COPPER MINING COMPANY, New York, N. Y. Filed Mar. 7, 1923.

ANACONDA

Particular description of goods.—Finished Commutator Copper Bars and Strips.
Claims use since May 1, 1922.

Ser. No. 177,209. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANACONDA COPPER MINING COMPANY, New York, N. Y. Filed Mar. 10, 1923.

ANACONDA from mine to consumer

Particular description of goods.—Finished Commutator Copper Bars and Strips.
Claims use since July 17, 1922.

Ser. No. 177,212. (CLASS 39. CLOTHING.) BIRDSEY-SOMERS CO., New York, N. Y. Filed Mar. 10, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Corsets, Brassières, and Girdles.
Claims use since Feb. 1, 1923.

Ser. No. 177,213. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Mar. 10, 1923.

UNIFILE INDEX

Trade-mark consists of the words "Unifile Index."
Particular description of goods.—Paper—Namely, Print, Book, Cover, Bristol, Post-Card, Ledger, Writing, Bond, and Envelope.
Claims use since Apr. 19, 1922.

Ser. No. 177,241. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PACENT ELECTRIC COMPANY, New York, N. Y. Filed Mar. 10, 1923.

MICRO VERN

Particular description of goods.—Control Dials for Use with Radio Apparatus.
Claims use since Dec. 5, 1922.

Ser. No. 177,254. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES REFRACTORIES CO., San Luis Obispo, Calif. Filed Mar. 10, 1923.

INCELLO

Particular description of goods.—Bricks.
Claims use since June, 1922.

Ser. No. 177,277. (CLASS 12. CONSTRUCTION MATERIALS.) THE COPPERSTONE PRODUCTS CO., Toledo, Ohio. Filed Mar. 12, 1923.

COPPERSTONE

Particular description of goods.—Mineral Aggregate as Ingredients for Road Surfacing, Pavements, Floors, Columns, and Shapes for Use as Curbs, Steps, Walls, Piers, Docks, Roofs, Silos, Tanks, Viaducts, Chimneys, Etc., for Structures and Artificial-Stone Pavements, Floors, Curbs, Steps, Walls, Piers, Docks, Roofs, Silos, Tanks, Viaducts, Chimneys, Etc., for Structures.
Claims use since 1915.

Ser. No. 177,287. (CLASS 39. CLOTHING.) FENDELMAN BROTHERS CAP AND HAT MANUFACTURING COMPANY, St. Louis, Mo. Filed Mar. 12, 1923.



The Fairway

Particular description of goods.—Caps for Men, Women, and Children.
Claims use since Jan. 19, 1922.

Ser. No. 177,352. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BONDED PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 13, 1923.

BONDINE

Particular description of goods.—Soap and Soap Products.
Claims use since about Oct. 20, 1922.

Ser. No. 177,353. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BONDED PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 13, 1923.

Surety

Particular description of goods.—Soap and Soap Products.
Claims use since about Oct. 20, 1922.

Ser. No. 177,358. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HOWARD R. CALVERT, Medina, Ohio. Filed Mar. 13, 1923.

SNAPPO

Particular description of goods.—Shoe and Leather Polishes.
Claims use since Feb. 20, 1923.

Ser. No. 177,421. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 14, 1923.

KRINKY-TWIST

No claim made to the word "Twist" apart from the mark shown.
Particular description of goods.—Yarn, Thread, Useful for Art Needlework, Embroidery, Knitting, Crocheting, Tatting, Weaving, Braiding, Sewing, and Lace Making.
Claims use since Feb. 28, 1923.

Ser. No. 177,431. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ELSON & CHURCH, Los Angeles, Calif. Filed Mar. 14, 1923.



No claim is made to the words "Fireplace Furnace" and "Los Angeles" apart from the mark shown in the drawing.
Particular description of goods.—Fireplaces.
Claims use since Jan. 9, 1923.

Ser. No. 177,472. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) ELSIE W. BIEG, Chicago, Ill. Filed Mar. 15, 1923.

CPIA

Particular description of goods.—Chinaware.
Claims use since June, 1917.

Ser. No. 177,494. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HORACE LEHR, doing business as H. Lehr & Co., Easton, Pa. Filed Mar. 15, 1923. Under ten-year proviso.

Lehr

Particular description of goods.—Upright and Grand Pianos, Player Pianos, Electric and Reproducing Pianos, and Phonographs.
Claims use since 1891.

Ser. No. 177,521. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHINDEL & MCDANIELS, New York, N. Y. Filed Mar. 15, 1923.



No claim is made to the words "Size" and "Before Hemming" apart from the mark shown on the drawing. The lining is for the purpose of shading only.
Particular description of goods.—Bed Sheets and Spreads and Pillowcases.
Claims use since Feb. 1, 1923.

Ser. No. 177,692. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RHEINAUER-ROTH KNITTING MILLS, INC., New York, N. Y. Filed Mar. 19, 1923.



The words "Fabrics" and "Reg. U. S. Pat. Off." appearing on the drawing are descriptive matter and are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Knitted Piece Goods of Wool, Worsted, and Fiber Silk or Mixtures of the Same.
Claims use since Jan. 1, 1923.

Ser. No. 177,694. (CLASS 31. FILTERS AND REFRIGERATORS.) RICHMOND CEDAR WORKS, Richmond, Va. Filed Mar. 19, 1923.

"ICEBERG"

Particular description of goods.—Filters and Refrigerators.
Claims use since Mar. 15, 1923.

Ser. No. 177,780. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM HENRY HARRISS, New York, N. Y. Filed Mar. 21, 1923.

FONTENA

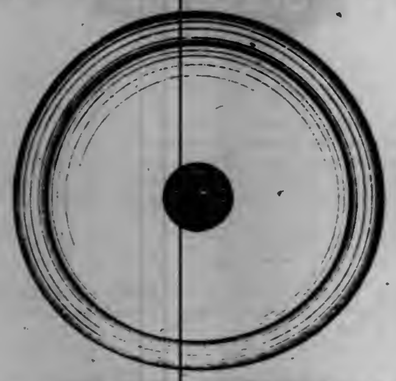
Particular description of goods.—Cotton, Silk, Woolen, or Jute Fabrics.
Claims use since Feb. 1, 1923.

Ser. No. 177,786. (CLASS 12. CONSTRUCTION MATERIALS.) JOHNS-MANVILLE, INCORPORATED, New York, N. Y. Filed Mar. 21, 1923.

JOHNS-MANVILLE
Transite
ASBESTOS WOOD

No claim made to the words "Johns-Manville" or "Asbestos Wood."
Particular description of goods.—Fireproof Non-Heat-Conducting Materials Composed of Asbestos Fiber and Hydraulic Cement in Sheets, Strips, and Blocks.
Claims use since Feb. 1, 1907.

Ser. No. 177,795. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) METRO ELECTRICAL CO., INC., Newark, N. J. Filed Mar. 21, 1923.



The trade-mark consists in a blue disk showing through the receiver earpiece opening, the drawing being lined to indicate the said color. No claim is made to the representation of the receiver cap, per se.
Particular description of goods.—Electrical Telephone Receivers.
Claims use since early part of March, 1923.

Ser. No. 177,797. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HOWARD A. MILLER, doing business as The Homo Phone Co., Newark, N. J. Filed Mar. 21, 1923.

HOMO PHONE

No claim is made to the representation of a sound record tablet appearing in the drawing apart from the mark as shown. The drawing is lined to denote the colors gold and blue.
Particular description of goods.—Sound Record Tablets and Recording Attachments for Phonographs.
Claims use since Sept. 26, 1922.

Ser. No. 177,856. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Mar. 22, 1923.

O. BOY

The lining in the drawing is intended to indicate yellow for the border, purple for the lettering, and pink for the ground within the border.
Particular description of goods.—Rouge or Powder.
Claims use since Aug. 8, 1916.

Ser. No. 177,905. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed Mar. 23, 1923.

CELESTE

Particular description of goods.—Common Soap.
Claims use since Feb. 28, 1923.

Ser. No. 177,950. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. & CHAS. BECK, INC., Lawrence, Mass. Filed Mar. 24, 1923.

MAJOR

Particular description of goods.—Cotton Fire Hose.
Claims use since Mar. 16, 1923.

Ser. No. 177,987. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) MOTOR CURVE LIGHT COMPANY, Delta, Colo. Filed Mar. 24, 1923.

KURVLITE

Particular description of goods.—Electric Lights and Lighting Fixtures for Electric Lights for Motor Cars.
Claims use since Mar. 3, 1923.

Ser. No. 178,007. (CLASS 33. GLASSWARE.) SYRACUSE GLASS COMPANY, Syracuse, N. Y. Filed Mar. 24, 1923.

ONONDAGA BRAND



SYRACUSE GLASS COMPANY

No claim is made to the word "Brand."
Particular description of goods.—Plate Glass, Mirror Glass, and Crystal Sheeting.
Claims use since July 1, 1922.

Ser. No. 178,020. (CLASS 37. PAPER AND STATIONERY.) H. REEVE ANGEL & CO., INC., New York, N. Y. Filed Mar. 26, 1923.

RYE MILL

No claim is made to the exclusive use of the word "Mill" apart from the mark as shown on the drawing. Trade-mark consists of the words "Rye Mill."
Particular description of goods.—Bond and Correspondence Paper.
Claims use since October, 1922.

Ser. No. 178,142. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. BOND SMITH, Washington, D. C. Filed Mar. 27, 1923.

KING TUT

Particular description of goods.—Soaps.
Claims use since Mar. 26, 1923.

Ser. No. 178,236. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 29, 1923.

Dover
Domanco
THE ELECTRIC IRON THAT WILL *NOT* BURN OUT

No claim made to the words "The Electric Iron That Will Not Burn Out" apart from the mark shown.
Particular description of goods.—Electric Sadirons.
Claims use since February, 1923.

Ser. No. 178,243. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE FLEXO CO., Fredericksburg, Va. Filed Mar. 29, 1923.

FLEXO

Particular description of goods.—Dressing Oil Suitable for Softening and Preserving Articles of Leather and Similar Substances.
Claims use since Feb. 15, 1923.

Ser. No. 178,333. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DUBILIER CONDENSER AND RADIO CORPORATION, New York, N. Y. Filed Mar. 30, 1923.

DU-TEC

Particular description of goods.—Crystal Detectors and Rectifiers.
Claims use since Oct. 1, 1922.

Ser. No. 178,336. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis. Filed Mar. 30, 1923.

RG

Particular description of goods.—Tires Made Wholly or Partly of Rubber.
Claims use since Jan. 10, 1923.

Ser. No. 178,393. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) THE KEELEY STOVE COMPANY, Columbia, Pa. Filed Mar. 31, 1923. Under ten-year proviso.

COLUMBIAN

Particular description of goods.—Coal, Wood, and Gas Cooking and Heating Stoves and Ranges; Coal-Burning Furnaces, and Gas and Coal Hot-Water Heaters.
Claims use since February, 1890.

Ser. No. 178,502. (CLASS 37. PAPER AND STATIONERY.) GREAT NOTCH PAPER COMPANY, INC., New York, N. Y. Filed Apr. 3, 1923.



Particular description of goods.—Wrapping Paper.
Claims use since about Mar. 15, 1923.

Ser. No. 178,587. (CLASS 37. PAPER AND STATIONERY.) ZELLERBACH PAPER CO., San Francisco, Calif. Filed Apr. 4, 1923.



Applicant disclaims the exclusive right to the use of the word "Lawn" apart from the mark as shown.
Particular description of goods.—Writing Paper, Writing Tablets, and Envelopes.
Claims use since May 1, 1922.

Ser. No. 178,628. (CLASS 12. CONSTRUCTION MATERIALS.) RITESTONE PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 5, 1923.

RITESTONE

Particular description of goods.—Stucco and a Composition of Cementitious Nature for Making Flooring.
Claims use since Feb. 20, 1922.

Ser. No. 178,642. (CLASS 12. CONSTRUCTION MATERIALS.) THE UNITED STATES PORTLAND CEMENT COMPANY, Denver, Colo. Filed Apr. 5, 1923.



No claim is made for the word "Concrete" apart from the mark shown by the drawing.
Particular description of goods.—Portland Cement.
Claims use since May 18, 1906.

Ser. No. 178,722. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOWSE, MEAD & SONS, LTD., London, England. Filed Apr. 7, 1923.



GUARANTEED FAST DYE

No claim is made to the exclusive right to the words "Guaranteed Fast Dye" apart from the mark shown in the drawing.
Particular description of goods.—Serges in the Piece.
Claims use since Aug. 27, 1907.

Ser. No. 178,765. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MARCEL M. MIRABEAU, doing business as Lissauer & Company, New York, N. Y. Filed Apr. 7, 1923.



Particular description of goods.—Watchcases.
Claims use since July 1, 1891.

Ser. No. 178,873. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden. Filed Apr. 9, 1923.

SANDVIK

Particular description of goods.—Hardened and Tempered Steel Bands Used as a Substitute for Rubber, Textile, and Leather Belts.
Claims use since Oct. 13, 1868.

Ser. No. 178,915. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARE E. GARRATT, New York, N. Y. Filed Apr. 10, 1923.

C. - E. SILKS

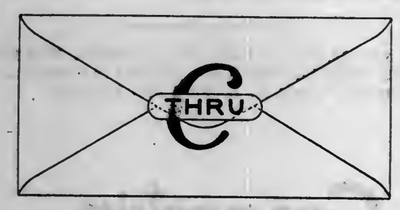
No claim is made to the exclusive use of the word "Silks" apart from the mark as shown in the drawing.
Trade-mark consists of the letters and word "C. E. Silks."
Particular description of goods.—Hand-Decorated Silk and Velvet Goods in the Piece.
Claims use since latter part of year 1922.

Ser. No. 178,930. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT H. LINTON, New York, N. Y. Filed Apr. 10, 1922.

DUNMURRY

Trade-mark consists of the word "Dunmurry."
Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 15, 1918.

Ser. No. 178,942. (CLASS 37. PAPER AND STATIONERY.) WOLF BROTHERS, Philadelphia, Pa. Filed Apr. 10, 1923.



No claim is made herein to an envelope apart from the mark shown.
Particular description of goods.—Window Envelopes.
Claims use since about Nov. 1, 1922.

Ser. No. 178,989. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Vilrosa

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,992. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Turnella

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,993. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Larida

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 15, 1923.

Ser. No. 178,994. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Grapeskin

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 1, 1923.

Ser. No. 179,167. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROUBAIX MILLS, INC., Clinton, Mass., and New York, N. Y. Filed Apr. 14, 1923.

Forcena

Trade-mark "Forcena."
Particular description of goods.—Piece Goods Made of Wool.
Claims use since Mar. 9, 1923.

Ser. No. 179,275. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KELSEY TEXTILE CORPORATION, New York, N. Y. Filed Apr. 17, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 17, 1918.

Ser. No. 179,288. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 17, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 19, 1917.

Ser. No. 179,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 17, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 28, 1916.

Ser. No. 179,369. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOCKMEYER BROS., New York, N. Y. Filed Apr. 19, 1923.

LINENSKIN

Trade-mark consists of the word "Linenskin."
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 27, 1923.

Ser. No. 179,391. (CLASS 37. PAPER AND STATIONERY.) THE BANKERS SUPPLY CO., Denver, Colo., and Chicago, Ill. Filed Apr. 20, 1923.

Insured

Particular description of goods.—Safety Paper—viz, Bank Checks.
Claims use since about May 21, 1921.

Ser. No. 179,549. (CLASS 37. PAPER AND STATIONERY.) ORONO PULP & PAPER COMPANY, Bangor, Me. Filed Apr. 23, 1923.



Particular description of goods.—Wrapping Paper.
Claims use since Feb. 15, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 5, 1923.

169,038. UNDERWEAR, KNIT OR WOVEN, AND HOSIERY, FOR MEN, WOMEN, AND CHILDREN. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn.
Filed February 3, 1923. Serial No. 175,508. PUBLISHED APRIL 3, 1923.

169,039. PYROXYLIN, NITROCELLULOSE, PYROXYLIN AND ARTIFICIAL IVORY COMPRISING SHEETING, RODS, BEADING, AND TUBES. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,241. PUBLISHED MARCH 13, 1923.

169,040. FINISHED LEATHER. DAY-GORMLEY LEATHER CO., Boston, Mass.
Filed June 3, 1919. Serial No. 119,153. PUBLISHED FEBRUARY 27, 1923.

169,041. FURNITURE FOR HOMES. C. NISS & SONS, INC., Milwaukee, Wis.
Filed June 18, 1921. Serial No. 149,345. PUBLISHED FEBRUARY 27, 1923.

169,042. NATURAL BROWN RICE. C. & B. RICE MILLS, Glenn County, Calif.
Filed November 21, 1921. Serial No. 155,667. PUBLISHED DECEMBER 19, 1922.

169,043. PREPARATION MADE FROM RICE IN POWDERED AND LIQUID FORM. VITA RICE PRODUCTS CO., Glenn County, Calif.
Filed November 21, 1921. Serial No. 155,718. PUBLISHED DECEMBER 19, 1922.

169,044. LEATHER FLOOR MATS AND LEATHER RUNNERS. WILLIAM J. REILLY, Brooklyn, N. Y.
Filed January 19, 1922. Serial No. 158,154. PUBLISHED MARCH 13, 1923.

169,045. LEATHER. KISTLER LEATHER COMPANY, South Boston, Mass.
Filed February 6, 1922. Serial No. 158,931. PUBLISHED FEBRUARY 27, 1923.

169,046. ALMOND LOTION, DENTAL CREAM, LIP STICK, HAIR TONIC, HAIR SHAMPOO, AND HAIR DYE. ROGERS BROTHERS, New York, N. Y.
Filed March 29, 1922. Serial No. 161,453. PUBLISHED JULY 25, 1922.

169,047. FRESH CITROUS FRUITS. FLORIDA CITRUS EXCHANGE, Tampa, Fla.
Filed April 11, 1922. Serial No. 162,105. PUBLISHED FEBRUARY 6, 1923.

169,048. CERTAIN NAMED PICTURES, FILMS, AND PHOTOGRAPHIC TAKING AND PROJECTING APPARATUS. CLYDE E. ELLIOTT, New York, N. Y.
Filed April 17, 1922. Serial No. 162,392. PUBLISHED MARCH 13, 1923.

169,049. LEATHER. THE OHIO LEATHER COMPANY, Girard, Ohio.
Filed June 23, 1922. Serial No. 165,977. PUBLISHED MARCH 13, 1923.

169,050. LEATHER. J. B. YUNKER & SONS, Milwaukee, Wis.
Filed July 17, 1922. Serial No. 167,037. PUBLISHED MARCH 13, 1923.

169,051. LEATHER. ALBERT O. TROSTEL, Milwaukee, Wis.
Filed July 22, 1922. Serial No. 167,274. PUBLISHED MARCH 27, 1923.

169,052. HOSIERY. BRAGER OF BALTIMORE, Baltimore, Md.
Filed August 14, 1922. Serial No. 168,198. PUBLISHED MARCH 20, 1923.

169,053. SHEET MUSIC AND MUSIC BOOKS. FRED FISHER, INC., New York, N. Y.
Filed August 22, 1922. Serial No. 168,577. PUBLISHED MARCH 13, 1923.

169,054. COMPLETELY-PRINTED CLASSIFIED-ADVERTISING FORMS AND INSTRUCTION SHEETS. THE BASIL L. SMITH SYSTEM, INC., Philadelphia, Pa.
Filed September 8, 1922. Serial No. 169,228. PUBLISHED MARCH 13, 1923.

169,055. ELECTRIC-LIGHT TRAFFIC SIGNALS FOR USE ON SELF-PROPELLED VEHICLES. EDWARD C. TAYLOR, New York, N. Y.
Filed September 7, 1922. Serial No. 169,191. PUBLISHED FEBRUARY 13, 1923.

169,056. MONTHLY PERIODICAL. ILLINOIS WOMEN'S ATHLETIC CLUB, Chicago, Ill.
Filed October 28, 1922. Serial No. 171,321. PUBLISHED FEBRUARY 27, 1923.

169,057. SOCKET WRENCHES. WALDEN-WORCESTER INC., Worcester, Mass.
Filed October 28, 1922. Serial No. 171,344. PUBLISHED MARCH 6, 1923.

169,058. TITLE FOR A MONTHLY MAGAZINE. TEASDALE RANDOLPH, doing business as The Country Editor Publishing Company, New York, N. Y.
Filed October 30, 1922. Serial No. 171,389. PUBLISHED FEBRUARY 27, 1923.

169,059. PERIODICAL PUBLICATION, PUBLISHED DAILY. NORRISTOWN HERALD, INC., Norristown, Pa.
Filed October 31, 1922. Serial No. 171,431. PUBLISHED MARCH 13, 1923.

169,060. COAL AND COKE. SWASTIKA FUEL COMPANY, Raton, N. Mex.
Filed November 4, 1922. Serial No. 171,597. PUBLISHED MARCH 27, 1923.

169,061. COAL AND COKE. SWASTIKA FUEL COMPANY, Raton, N. Mex.
Filed November 4, 1922. Serial No. 171,598. PUBLISHED MARCH 27, 1923.

169,062. MONTHLY EDUCATIONAL JOURNAL. EDWARD B. FRITZ, Chicago, Ill.
Filed November 6, 1922. Serial No. 171,634. PUBLISHED MARCH 13, 1923.

169,063. SERIAL STORY, A SYNDICATED SERIES OF PUBLICATIONS AND BOOKS. EDWIN P. NORWOOD, Chicago, Ill.
Filed November 14, 1922. Serial No. 172,009. PUBLISHED FEBRUARY 27, 1923.

169,064. LEATHER. PHILIP FERNANDEZ, doing business as Standard Export Company, Boston, Mass.
Filed November 10, 1922. Serial No. 171,795. PUBLISHED MARCH 13, 1923.

169,065. MARBLE IN UNFINISHED BLOCKS. BOND MARBLE COMPANY, Knoxville, Tenn.
Filed November 20, 1922. Serial No. 172,256. PUBLISHED MARCH 13, 1923.

169,066. TITLE OF A NEWSPAPER COLUMN. NEW YORK TRIBUNE, INC., New York, N. Y.
Filed November 23, 1922. Serial No. 172,430. PUBLISHED MARCH 13, 1923.

169,067. RULES, LEVELS, SQUARES, MARKING GAUGES, AND BEVELS. THE STANLEY WORKS, New Britain, Conn.
Filed November 25, 1922. Serial No. 172,564. PUBLISHED MARCH 6, 1923.

169,068. WEEKLY NEWSPAPER. WORLD PUBLICATION CO., Los Angeles, Calif.
Filed November 25, 1922. Serial No. 172,571. PUBLISHED FEBRUARY 27, 1923.

169,069. SERIES OF CARTOONS. THE BELL SYNDICATE, INC., New York, N. Y.
Filed November 27, 1922. Serial No. 172,577. PUBLISHED FEBRUARY 27, 1923.

169,070. WEEKLY PUBLICATION. TEXTILE PUBLISHING COMPANY, New York, N. Y.
Filed November 28, 1922. Serial No. 172,659. PUBLISHED FEBRUARY 27, 1923.

169,071. ARTIFICIAL-SILK FIBER. ALBERT DAVID, New York, N. Y.
Filed October 14, 1922. Serial No. 170,712. PUBLISHED MARCH 13, 1923.

169,072. METAL SIGNS FOR USE AS ADVERTISEMENTS, GUIDES, BULLETINS, ETC. LITTLE GIANT COMPANY, Mankato, Minn.
Filed October 6, 1922. Serial No. 170,394. PUBLISHED MARCH 13, 1923.

169,073. ARTIFICIAL-SILK FIBER. ALBERT DAVID, New York, N. Y.
Filed October 14, 1922. Serial No. 170,713. PUBLISHED MARCH 13, 1923.

169,074. PUBLICATION ISSUED PERIODICALLY. WHITMAN & KEITH CO., Brockton, Mass.
Filed October 17, 1922. Serial No. 170,852. PUBLISHED FEBRUARY 27, 1923.

169,075. COLORED COMIC PAGE IN THE SUNDAY WORLD NEWSPAPER. PRESS PUBLISHING COMPANY, New York, N. Y.
Filed October 18, 1922. Serial No. 170,896. PUBLISHED FEBRUARY 27, 1923.

169,076. SECTION OF A PERIODICAL AT PRESENT ISSUED WEEKLY. NATIONAL ASSOCIATION OF HOSIERY AND UNDERWEAR MANUFACTURERS, New York, N. Y.
Filed October 21, 1922. Serial No. 171,032. PUBLISHED FEBRUARY 27, 1923.

169,077. PERIODICAL PUBLICATION OF A LITERARY NATURE. JACK-O-LANTERN BOARD, Hanover, N. H.
Filed October 23, 1922. Serial No. 171,084. PUBLISHED MARCH 13, 1923.

169,078. DAILY NEWSPAPER. NASHVILLE BANNER PUBLISHING COMPANY, Nashville, Tenn.
Filed October 23, 1922. Serial No. 171,099. PUBLISHED FEBRUARY 27, 1923.

169,079. MONTHLY MAGAZINE. EDWARD LYMAN BILL, INC., New York, N. Y.
Filed November 29, 1922. Serial No. 172,662. PUBLISHED FEBRUARY 27, 1923.

169,080. RULES, LEVELS, SQUARES, MARKING GAUGES, AND BEVELS. THE STANLEY WORKS, New Britain, Conn.
Filed November 29, 1922. Serial No. 172,692. PUBLISHED MARCH 6, 1923.

169,081. TICKET PRINTING, REGISTERING, AND ISSUING MACHINES; ADDING MACHINES AND TIME-CHECKING MACHINES. THE CONTROLLOGRAPH CO., Los Angeles, Calif.
Filed December 6, 1922. Serial No. 172,978. PUBLISHED MARCH 6, 1923.

169,082. PUBLICATION ISSUED AT IRREGULAR INTERVALS. THE GANDY BELTING COMPANY, Baltimore, Md.
Filed December 7, 1922. Serial No. 173,042. PUBLISHED FEBRUARY 27, 1923.

169,083. FELT PIECE GOODS. TINGUE, BROWN & CO., New York, N. Y.
Filed December 9, 1922. Serial No. 173,153. PUBLISHED FEBRUARY 27, 1923.

169,084. FELT. AMERICAN HAIR FELT CO., Chicago, Ill.
Filed December 8, 1922. Serial No. 173,067. PUBLISHED FEBRUARY 27, 1923.

169,085. HORTICULTURAL AND FLORICULTURAL PRODUCTS—NAMELY, LILY OF THE VALLEY PIPS, FLOWER BULBS, AND FLOWER SEEDS. SAMUEL ROBERT, doing business as Konroe Merchants, New York, N. Y.
Filed December 12, 1922. Serial No. 173,245. PUBLISHED MARCH 13, 1923.

169,086. INDUSTRIAL AND TRADE DIRECTORIES. KEYSTONE CONSOLIDATED PUBLISHING COMPANY, Pittsburgh, Pa.
Filed December 13, 1922. Serial No. 173,288. PUBLISHED FEBRUARY 27, 1923.

169,087. PUBLICATIONS — NAMELY, CATALOGUES ISSUED ANNUALLY. MCCORD MANUFACTURING COMPANY, INC., Detroit, Mich.
Filed December 13, 1922. Serial No. 173,291. PUBLISHED FEBRUARY 27, 1923.

169,088. TELEPHONIC RECEIVERS AND HEADSETS. MANHATTAN ELECTRICAL SUPPLY COMPANY, INC., New York, N. Y.
Filed January 6, 1923. Serial No. 174,253. PUBLISHED MARCH 27, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

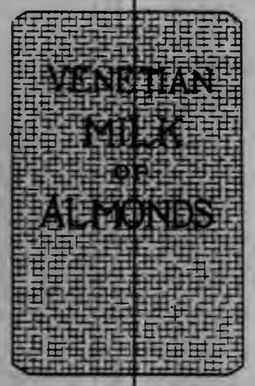
169,089. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BURGESS BATTERY COMPANY, Madison, Wis. Filed Mar. 24, 1923. Serial No. 177,953.



The vertical lining on the representation of a shield appearing on the drawing indicates red color.

Particular description of goods.—Electric Batteries.
Claims use since March, 1917.

169,090. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Mar. 22, 1923. Serial No. 177,855.



The drawing is lined to indicate yellow color.

Particular description of goods.—Skin Lotion.
Claims use since Aug. 8, 1916.

169,091. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ROBERT L. NAPIER, Blenheim, S. C. Filed Feb. 21, 1923. Serial No. 176,420.



Particular description of goods.—Soft Drinks.
Claims use since Aug. 26, 1920.

169,092. (CLASS 39. CLOTHING.) PHILIPSBORN'S, INC., Chicago, Ill., now by change of name, The Former Corporation assignor to Philipsborn's, Inc., a Corporation of Delaware. Filed June 26, 1922. Serial No. 166,093.

Everdainty

Particular description of goods.—Ladies' and Misses' Underwear of Knitted and Textile Fabrics.
Claims use since February, 1915.

169,093. (CLASS 39. CLOTHING.) BARROW MFG. CO., New York, N. Y. Filed June 20, 1922. Serial No. 165,744.

"Fresh on Arrival"

Trade-mark consists of the words "Fresh on Arrival."

Particular description of goods.—Flat Underwear of Knitted and Textile Fabric in One, Two, and Three Piece Garments, for Women and Misses.
Claims use since December, 1921.

169,094. (CLASS 12. CONSTRUCTION MATERIALS.) THE BOSTWICK STEEL LATH COMPANY, Niles, Ohio. Filed June 3, 1922. Serial No. 164,863.

Bostwick

Particular description of goods.—Expanded Metal Lath, Expanded Metal Reenforcements for Concrete Structures, Concrete Reenforcement Bars and Rods, Corner Beads, Base Beads, Metal Wall Plugs or Nailing Bases for Fastening Wood Trim to Brick, Stone, or Concrete Walls or Floors.
Claims use since spring of 1907.

169,095. (CLASS 12. CONSTRUCTION MATERIALS.) THE BOSTWICK STEEL LATH COMPANY, Niles, Ohio. Filed June 3, 1922. Serial No. 164,862.

Bostwick TRUSS-LOOP

Particular description of goods.—Metal Lath and Expanded Metal Reenforcements for Concrete Structures.
Claims use since spring of 1907.

169,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD H. GOULD, doing business as Gould Mfg. Co., Philadelphia, Pa. Filed May 15, 1922. Serial No. 163,870.

LIN-O-MINT

Particular description of goods.—Liniment.
Claims use since Mar. 15, 1922.

169,097. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BERTRAM C. ROGERS, Pittsburgh, Pa. Filed May 10, 1922. Serial No. 163,650.

ROGERS RECEIVING
RADIOMETER

Particular description of goods.—Electrical Apparatus—Namely, Wireless Receiving Sets and Variometers.
Claims use since Jan. 15, 1922.

169,098. (CLASS 37. PAPER AND STATIONERY.) ROCKY MOUNTAIN BANK NOTE COMPANY, Pueblo, Colo. Filed Apr. 24, 1922. Serial No. 162,851.

COTTON LINTERS BOND

Particular description of goods.—Writing and Printing Paper.
Claims use since Jan. 28, 1922.

169,099. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HERBERT NEVINS, doing business as H. Nevins Co., Peoria, Ill. Filed Apr. 12, 1922. Serial No. 162,193.

OILSHINE

Particular description of goods.—Shoe Dressing, Auto-Top and Carriage-Top Dressing.
Claims use since Aug. 25, 1913.

169,100. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Mar. 15, 1922. Serial No. 160,700.

Everfast

Particular description of goods.—Dyestuffs.
Claims use since Feb. 24, 1922.

169,101. (CLASS 39. CLOTHING.) ZION'S CO-OPERATIVE MERCANTILE INST., Salt Lake City, Utah. Filed Mar. 10, 1922. Serial No. 160,525.

Kantrip

Particular description of goods.—Overalls, Coats, Playsuits, Auto Suits, Khaki Pants and Shirts.
Claims use since Feb. 1, 1922.

169,102. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) H. J. BARKER, Chicago, Ill. Filed Jan. 11, 1922. Serial No. 157,750.

SY-FON

Particular description of goods.—Poultry Fountain.
Claims use since Dec. 1, 1921.

169,103. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Nov. 12, 1921. Serial No. 155,297.

ASTORIA

Particular description of goods.—Dress Shirts.
Claims use since Jan. 15, 1900.

169,104. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Nov. 12, 1921. Serial No. 155,295.

Pullman

Particular description of goods.—Dress Shirts.
Claims use since Jan. 15, 1912.

169,105. (CLASS 39. CLOTHING.) SAKS & COMPANY, New York, N. Y. Filed Aug. 23, 1921. Serial No. 152,101.

"Derry Made"

Particular description of goods.—Women's Aprons.
Claims use since June 1, 1921.

169,106. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SCIPIO MARIANI, Exeter, Pa. Filed Aug. 2, 1921. Serial No. 151,277.

TAMARINDO

Particular description of goods.—Soft Drinks.
Claims use since Apr. 20, 1921.

169,107. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FEDERAL RECORD CORPORATION, Albany, N. Y. Filed May 7, 1920. Serial No. 132,140.

Federal

Particular description of goods.—Talking-Machine Records.
Claims use since June 1, 1917.

169,108. (CLASS 4. ABRASIVE DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Feb. 12, 1923. Serial No. 175,974.

DOUBLECAP

Particular description of goods.—Shaving Sticks.
Claims use since Jan. 24, 1922.

169,109. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Feb. 7, 1923. Serial No. 175,666.

Mon Parfum

The lining in the drawing is intended to indicate blue color for the border and letters.
Particular description of goods.—Perfumes.
Claims use since Jan. 2, 1918.

169,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM HORSTMANN, Falls City, Nebr. Filed Feb. 6, 1923. Serial No. 175,606.

Horstmann's REMEDY

Particular description of goods.—Skin Lotion.
Claims use since Jan. 1, 1922.

169,111. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WM. DEMUTH & Co., New York, N. Y. Filed Jan. 24, 1923. Serial No. 175,008.

MILANO

Particular description of goods.—Tobacco Pipes and Cases.
Claims use since Jan. 1, 1918.

169,112. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAS. G. JOHNSON & Co., New York, N. Y. Filed Jan. 20, 1923. Serial No. 174,840.

CORKSCREW CREPE

Particular description of goods.—Silk, Artificial-Silk, Cotton, Wool Piece Goods, and Combinations Thereof.
Claims use since May 17, 1920.

169,113. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ORRIN W. WATSON, doing business as Watson Boat Works, Spokane, Wash. Filed Jan. 18, 1923. Serial No. 174,760.

KANT-SINK-EM

Particular description of goods.—Boats.
Claims use since April, 1922.

169,114. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. WHITMORE, Baltimore, Md. Filed Jan. 10, 1923. Serial No. 174,420.

Compound LINIMENT Positively Contains
RATTLE SNAKE OIL
For External Use Only



Particular description of goods.—Liniment.
Claims use since before Jan. 1, 1915.

169,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TRACY COMPANY, INC., New London, Conn. Filed Jan. 8, 1923. Serial No. 174,847.

Gas Eliminant
TRACY

Particular description of goods.—Remedy for Indigestion.
Claims use since Aug. 5, 1911.

169,116. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PEROXIDE CHEMICAL CO., St. Louis, Mo. Filed Jan. 8, 1923. Serial No. 174,332.

GREASELESS
CREAM

Particular description of goods.—Toilet Cream.
Claims use since February, 1911.

169,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE S. SMITH, doing business as Aspirin-Seltzer Co., New York, N. Y. Filed Jan. 6, 1923. Serial No. 174,268.

ASPIRINSELTZER

Particular description of goods.—A Preparation for the Treatment of Headache, Neuralgia, Colds, Grippe, and Rheumatism.
Claims use since Dec. 7, 1921.

169,118. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, a Corporation of New York. Filed Dec. 28, 1922. Serial No. 173,917.

NARCISSE JAUNE

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powders, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Oct. 15, 1922.

169,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHRISTIAN H. KOSTER, doing business as Chrs. Koster & Son, New York, N. Y. Filed Dec. 23, 1922. Serial No. 173,773.

MANHATTAN

Particular description of goods.—Eggs.
Claims use since Jan. 2, 1920.

169,120. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WALTER O. ROWDEN, Wills Point, Tex. Filed Dec. 18, 1922. Serial No. 173,535.

ROWDEN

Particular description of goods.—Selected Cottonseed of Different Varieties.
Claims use since Nov. 1, 1900.

169,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLINTON CORN SYRUP REFINING COMPANY, Clinton, Iowa. Filed Dec. 18, 1922. Serial No. 173,464.

CLINTON

Particular description of goods.—Corn Sirup, Gluten Feed, Oil-Cake Meal, Germ Meal, Corn Oil, and Corn Sugar.
Claims use since Jan. 6, 1921.

169,122. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERCOLE H. LOCATELLI, doing business as Mattia Locatelli, New York, N. Y. Filed Dec. 8, 1922. Serial No. 173,096.



Particular description of goods.—Cheese.
Claims use since Oct. 14, 1921.

169,123. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERCOLE H. LOCATELLI, doing business as Mattia Locatelli, New York, N. Y. Filed Dec. 8, 1922. Serial No. 173,094.



Particular description of goods.—Cheese.
Claims use since Aug. 14, 1914.

169,124. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERCOLE H. LOCATELLI, doing business as Mattia Locatelli, New York, N. Y. Filed Dec. 8, 1922. Serial No. 173,093.



Particular description of goods.—Cheese.
Claims use since Oct. 14, 1919.

169,125. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEMUEL H. PEIRSON, Los Angeles, Calif. Filed Oct. 26, 1922. Serial No. 171,230.



Particular description of goods.—Face-Powder Cakes.
Claims use since Mar. 6, 1919.

169,126. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Oct. 12, 1922. Serial No. 170,610.

Wearwell

Particular description of goods.—Hosiery.
Claims use since February, 1907.

169,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa. Filed Oct. 21, 1922. Serial No. 171,026.

KUBA-KANE

Particular description of goods.—Molasses.
Claims use since Apr. 10, 1922.

169,128. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY BECK, doing business as Beck's Forced Air Sweet Potato Curing System, Dallas, Tex. Filed Sept. 29, 1922. Serial No. 170,051.

Beck's Forced Air

Particular description of goods.—Dry-Cured Sweet Potatoes.
Claims use since Jan. 1, 1921.

169,129. (CLASS 39. CLOTHING.) WILLOW WEAVING CO., INC., New York, N. Y. Filed Dec. 30, 1921. Serial No. 157,349.

TUBULARS

Particular description of goods.—Neckties, Tubular Neckties, Tubular Cravats, Knitted and Woven Neckties and Cravats, and Knitted and Woven Mufflers (Known as Reefers in the Trade).
Claims use since August, 1920.

TRADE-MARK REGISTRATIONS RENEWED.

22,648. A REMEDY FOR NEURALGIA. Registered March 14, 1893. EDWARD B. WHITE. Renewed March 14, 1923, to May White Steele, doing business as White's Neuralgia Remedy, Lancaster, Ohio, assignee.

22,676. COFFEE CLASSIFIERS, HULLERS, POLISHERS, POWER SCREENS, PULPERS, AND ELEVATORS. Registered March 21, 1893. MARCUS MASON & CO., New York, N. Y. Renewed March 21, 1923, to Marcus Mason & Co., Inc., Boston, Mass., assignee.

22,797. A SUBSTITUTE FOR LARD. Registered April 11, 1893. SWIFT & COMPANY, Chicago, Ill. Renewed April 11, 1923.

22,803. COFFEE MACHINERY INCLUDING HULLERS, CLASSIFIERS, POLISHERS, SCREENS, PULPERS, ENGINES, ELEVATORS, AND BOILERS. Registered April 11, 1893. MARCUS MASON & CO., New York, N. Y. Renewed April 11, 1923, to Marcus Mason & Co., Inc., Boston, Mass., assignee.

22,843. CERTAIN NAMED TOILET ARTICLES AND PREPARATIONS. Registered April 18, 1893. A. & F. PEARS, LTD., London, England. Renewed April 18, 1923.

22,903. BLEACHED, BROWN, AND PRINTED COTTON GOODS. Registered May 2, 1893. GRINNELL WILLIS. Renewed May 2, 1923, to Ridley Watts & Co., New York, N. Y., assignee.

22,935. A FACE OINTMENT FOR BEAUTIFYING THE SKIN. Registered May 2, 1893. CHRISTOPHER PETZELT. Renewed May 2, 1923, to Virginia A. Petzelt Meier, doing business as C. Petzelt Manufacturing Company, Philadelphia, Pa., assignee.

22,959. RAILS, SWITCHES, METAL CARS, WHEELS, AND TRUCKS. Registered May 2, 1893. C. W. HUNT CO. Renewed May 2, 1923, to C. W. Hunt Company Inc., New York, N. Y., assignee.

23,022. BLEACHED, BROWN, AND PRINTED COTTON GOODS. Registered May 16, 1893. GRINNELL WILLIS. Renewed May 16, 1923, to Ridley Watts & Co., New York, N. Y., assignee.

23,054. CLOTHES WRINGERS. Registered May 16, 1893. BISSELL CARPET SWEEPER COMPANY, Grand Rapids, Mich. Renewed May 16, 1923, to The American Wringer Company, Providence, R. I., a Corporation of Rhode Island, assignee.

23,110. TINTED LEADS. Registered May 30, 1893. WADSWORTH, HOWLAND & COMPANY, INCORPORATED, Boston, Mass. Renewed May 30, 1923.

23,223. PERFUMES. Registered June 20, 1893. WILLIAMS, DAVIS, BROOKS & CO. Renewed June 20, 1923, to Dabrooks' Perfume Company, Detroit, Mich., a Corporation of Michigan, assignee.

23,242. CORSETS. Registered June 27, 1893. SCHILLING CORSET CO. Renewed June 27, 1923, to American Lady Corset Company, Detroit, Mich., assignee.

23,254. PRESERVES, JELLIES, FRUIT BUTTERS, AND MINCEMEAT. Registered June 27, 1893. VAN LILL PRESERVING COMPANY. Renewed June 27, 1923, to S. J. Van Lill Co., Baltimore, Md., a Corporation of Maryland, assignee.

23,349. TOBACCO, CIGARS, CIGARETTES, AND CHEROOTS. Registered July 11, 1893. D. RITCHIE & Co. Renewed July 11, 1923, to Imperial Tobacco Company of Canada, Limited, Montreal, Canada, assignee.

23,406. GLUE FOR MENDING CHINA, GLASS, LEATHER, ETC. Registered July 25, 1893. OLIVER CABANA, Jr., Buffalo, N. Y. Renewed July 25, 1923.

23,458. SPORTING GUNPOWDER. Registered August 8, 1893. AMERICAN POWDER MILLS, Boston, Mass. Renewed August 8, 1923.

23,463. CANNED CORN. Registered August 8, 1893. ILLINOIS CANNING CO. Renewed August 8, 1923, to The Illinois Canning Co., Hoopeston, Ill., a Corporation of Illinois, assignee.

23,572. BRONZES AND SILVER AND PLATED WARE. Registered September 5, 1893. TIFFANY & COMPANY, New York, N. Y. Renewed September 5, 1923.

23,573. JEWELRY AND WATCHES. Registered September 5, 1893. TIFFANY & COMPANY, New York, N. Y. Renewed September 5, 1923.

23,616. HYDRAULIC AND FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY. Renewed September 19, 1923, to Eureka Fire Hose Manufacturing Company, New York, N. Y., a Corporation of New Jersey, assignee.

23,617. HYDRAULIC AND FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY. Renewed September 19, 1923, to Eureka Fire Hose Manufacturing Company, New York, N. Y., a Corporation of New Jersey, assignee.

23,618. HYDRAULIC OR FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY, Renewed September 19, 1923, to Eureka Fire Hose Manufacturing Company, New York, N. Y., a Corporation of New Jersey, assignee.

23,632. TOILET SOAP. Registered September 19, 1893. COLGATE & CO., New York, N. Y. Renewed September 19, 1923, to Colgate & Company, Jersey City, N. J., a Corporation of New Jersey, assignee.

23,658. CERTAIN NAMED MEDICINES. Registered September 26, 1893. CHARLES E. BRUNNING, Indianapolis, Ind. Renewed September 26, 1923.

23,664. DISINFECTANTS. Registered September 26, 1893. NEWTON, CHAMBERS & COMPANY, LTD., near Sheffield, England. Renewed September 26, 1923.

23,708. WRITING PAPER AND ENVELOPES. Registered October 17, 1893. GEORGE B. HURD & CO., New York, N. Y. Renewed October 17, 1923.

23,797. REMEDIES FOR RHEUMATISM, GOUT, NEURALGIA, SCIATICA, AND KINDRED AILMENTS. Registered November 7, 1893. BUTLER & CLARRIDGE. Renewed November 7, 1923, to William C. Field, Washington, D. C., assignee.

LABELS

REGISTERED JUNE 5, 1923.

26,041.—*Title:* PORCEVENEER. For Dental Crowns and Bridges. CHARLES BECHTOLD, Brooklyn, N. Y. Published March 30, 1923.

26,042.—*Title:* SLIP-SHEET PACKAGE. For Paper Specialties, and Especially on Wax Paper. BENNINGTON WAX PAPER COMPANY, Bennington, Vt. Published April 11, 1923.

26,043.—*Title:* EATEM. For Dates Stuffed with Nuts. HENRY C. EDWARDS, also doing business as Imperial Fruit Products Co., Los Angeles, Calif. Published April 14, 1923.

26,044.—*Title:* EMERSON'S GINGER-MINT JULEP. For a Nonalcoholic Beverage and Sirups and Concentrates for Use in Said Beverage. EMERSON DRUG CO., Baltimore, Md. Published April 15, 1923.

26,045.—*Title:* SLOVAKA NANKIN. For Nankins. FREUND, FREUND & COMPANY, New York, N. Y. Published March 30, 1923.

26,046.—*Title:* GOODMAN'S PURE MATZOTH MEAL. For Matzoth Meal. A. GOODMAN & SONS, INC., New York, N. Y. Published February 10, 1923.

26,047.—*Title:* HEARN INFANTS WEAR. For Infants' Wear. JAMES A. HEARN & SON, INC., New York, N. Y. Published June 1, 1922.

26,048.—*Title:* PEPKIK. For Hamburger-Sausage Sandwiches. JEROME HIRSCHMAN, Ocean Park, Calif. Published February 21, 1921.

26,049.—*Title:* BUTTER-KIST. For Pop Corn. HOLCOMB & HOKE MFG. CO., Indianapolis, Ind. Published March 10, 1923.

26,050.—*Title:* NOBLE-HEART EGYPTIAN HENNA POWDER. For a Preparation for Brightening and Glinting the Hair. JOSEPH HENRY KARP, New York, N. Y. Published January 10, 1923.

26,051.—*Title:* KELLOGG'S CORN FLAKES. For Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published April 12, 1923.

26,052.—*Title:* NOCOOK EAGLE BRAND MALTHOP. For Malt Extract. MODERN PURE FOOD PRODUCTS CO., New York, N. Y. Published January 6, 1923.

26,053.—*Title:* NORTHERN TOWELS. For Wrapper for Folded Paper Towels. NORTHERN PAPER MILLS, Green Bay, Wis. Published January 2, 1923.

26,054.—*Title:* VITACREME PANCAKE FLOUR. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,055.—*Title:* VITEMS OF CORN. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,056.—*Title:* VITAWHEAT FLOUR. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,057.—*Title:* MARVEL MEAL. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,058.—*Title:* MARVEL HOG CHOPS. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,059.—*Title:* MARVEL SCRATCH FEED. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,060.—*Title:* MARVEL CHICK FEED. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,061.—*Title:* VITEMS OF WHEAT. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,062.—*Title:* VITA WHEAT. For Cereal Products. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky. Published April 21, 1923.

26,063.—*Title:* ONE BISCUIT MORNING, NOON & NIGHT. For Biscuits. STANDARD BISCUIT COMPANY, San Francisco, Calif. Published April 12, 1923.

26,064.—*Title:* FORKED RIVETS. For Rivets. EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y. Published April 25, 1923.

26,065.—*Title:* SWANTEX SANITARY NAPKINS. For Packages and Cartons of Sanitary Paper Napkins. SWANTEX PRODUCTS CORPORATION, New York, N. Y. Published January 6, 1923.

26,066.—*Title:* VAPO PRODUCTS. For Rug and Carpet Cleaning Compound. VAPO PRODUCTS CO., INC., Sandpoint, Idaho. Published December 2, 1922.

26,067.—*Title:* VAPO PRODUCTS. For a Natural Hand Cleanser. VAPO PRODUCTS CO., INC., Sandpoint, Idaho. Published January 2, 1923.

26,068.—*Title:* PRAZ DROY. For Malt Extract. CHAS. F. VEHEL, Chicago, Ill. Published April 7, 1923.

26,069.—*Title:* EVERY DAY. For Hair Nets. WEST ELECTRIC HAIR CURLER COMPANY, Philadelphia, Pa. Published February 27, 1923.

PRINTS

REGISTERED JUNE 5, 1923.

6,744.—*Title:* SIX FEET FOOT COMFORT. For Foot Powders for Foot Baths. CHARLES G. BOYD, Bethlehem, Pa. Published May 3, 1923.

6,745.—*Title:* FATHER JOHN BETWEEN TWO BILLBOARDS. For Father John's Medicine. CARLETON & HOVEY COMPANY, Lowell, Mass. Published May 2, 1921.

6,746.—*Title:* FORTIFIED FOR LIFE. For Father John's Medicine. CARLETON & HOVEY COMPANY, Lowell, Mass. Published May 2, 1921.

6,747.—*Title:* THRIFTABLES. For Women's Apparel. GLADDING DRY GOODS CO., Providence, R. I. Published January 13, 1922.

6,748.—*Title:* FIRST ON THE LIST. For Coffee. HILLS BROS., San Francisco, Calif. Published March 23, 1923.

6,749.—*Title:* KANT-BREAK. For Ladders. KANT-BREAK LADDERS, INC., St. Louis, Mo. Published April 28, 1923.

6,750.—*Title:* "ONYX" HOSIERY. For Hosiery. "ONYX" HOSIERY INC., New York, N. Y. Published April 15, 1923.

6,751.—*Title:* NOW I ASK A FAVOR OF THE LADIES. For Palmolive Shampoo. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published April 20, 1923.

6,752.—*Title:* THE PARK & POLLARD CO. LAY OR BUST POULTRY FEEDS. For Poultry Feeds. THE PARK & POLLARD COMPANY, Boston, Mass. Published April 6, 1923.

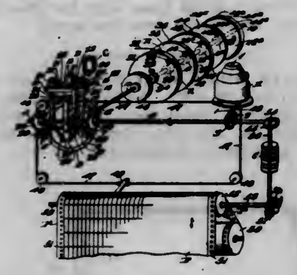
6,753.—*Title:* SWANTEX. For Sanitary Paper Napkins. SWANTEX PRODUCTS CORPORATION, New York, N. Y. Published January 6, 1923.

6,754.—*Title:* WHYR E NAML. For Enamel Fixtures. WHYT-E-NAML SPECIALTY CO., INC., New York, N. Y. Published April 14, 1923.

REISSUES.

JUNE 5, 1923.

15,617. MEASURING AND INDICATING APPARATUS. HENRY BREWER, Wilmette, Ill., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1922. Serial No. 604,090. Original No. 1,361,676, dated Dec. 7, 1920, Serial No. 278,407, filed Feb. 21, 1919. 49 Claims. (Cl. 234—5.5.)



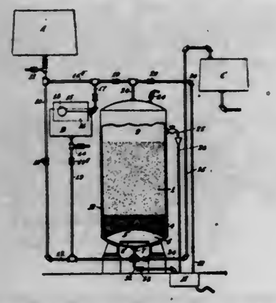
24. The combination with a deflecting member, of a source of power, variable electrical means and a plurality of electrical devices adapted severally to co-operate with said means to control said deflecting member, said means varied by said source of power under control of said deflecting member, means actuated by said source of power for bringing said electrical devices successively into co-operation with said means, an instrument giving indications respecting said electrical devices, controllers for said instrument brought successively into co-operation with said instrument and actuated by said source of power under control of said deflecting member, and a marker actuated by said source of power under control of said deflecting member producing a record related to the indications of said instrument.

34. The combination with a plurality of temperature responsive devices, of a galvanometer, a group of signals for each of said devices, a switching mechanism for each of said groups of signals for controlling the signals thereof individually, switching mechanism for associating said devices one at a time with said galvanometer, and means controlled by said galvanometer for actuating said first named switching mechanisms simultaneously.

47. The combination with a plurality of temperature responsive devices, of a movable member controlled by each of said devices for different lengths of time, and a single marker actuated by said movable member for periods corresponding to said lengths of time, for effecting records having component marks of different lengths.

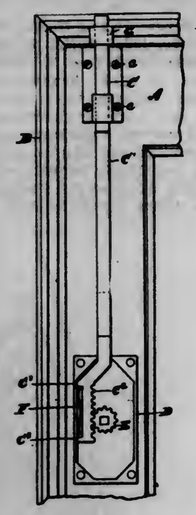
15,618. METHOD OF AND APPARATUS FOR SOFTENING WATER. THOMAS R. DUGGAN, New York, N. Y., assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1922. Serial No. 556,137. Original No. 1,276,629, dated Aug. 20, 1918, Serial No. 127,127, filed Oct. 23, 1916. 2 Claims. (Cl. 210—2.)

1. In the purification and softening of water, the process which comprises transmitting water downwardly through a granular bed of exchange silicates until such silicates have functioned to a sufficient degree, thereupon passing salt solution followed by wash water through such bed in an upward direction with removal of salt solution and wash water at or above the upper face of such bed until the silicates are regenerated, interrupting



the flow at this time and draining the bed from the lowest point, and once more passing water to be softened through the bed in a downward direction.

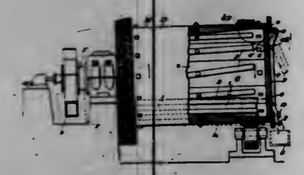
15,619. LATCH. CURTIS A. MASSOLL, Detroit, Mich., assignor to John A. Whittaker, Detroit, Mich. Filed Mar. 23, 1921. Serial No. 454,934. Original No. 1,338,689, dated May 4, 1920, Serial No. 333,246, filed May 8, 1918. 4 Claims. (Cl. 292—39.)



1. In a device of the class described, keepers located at the top and bottom of the frame work and provided at the outer sides with bolt engaging means, a vertically movable bolt carried by the door and provided with a tapering end presenting an inclined face to the bolt engaging means of the keepers for forcing the door inwardly to its closed position, said bolt having a face

parallel with the side of the door extending from the tapered portion and slidable over the bolt engaging means as the door is forced inwardly by the inclined end of the bolt, before the bolt has reached its limit of motion, the bolt engaging means of the keeper being arranged to permit an extended movement of the bolt whereby any sagging of the door will be prevented from diminishing the effectiveness of the tapered end of the bolt when forcing the door tightly to its closed position, and manually operated means for actuating said bolt.

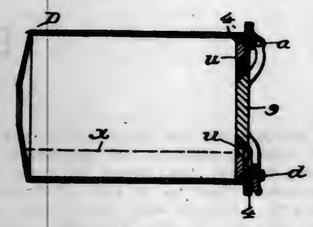
15,620. ROLLER MILL. FRANK E. MARCY, Los Angeles, Calif. Filed Nov. 16, 1922. Serial No. 601,240. Original application filed Jan. 25, 1919, Serial No. 273,097. Renewed Oct. 13, 1920, Serial No. 416,773. Original No. 1,361,601, dated Dec. 7, 1920. 12 Claims. (Cl. 83—9.)



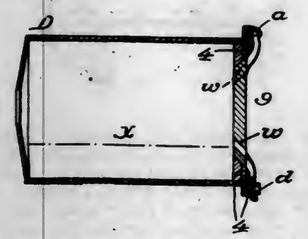
1. In a mill of the character described, a tumbling barrel having a feed end and a normally open discharge end, an inwardly projecting flange at the discharge end, the inner edge of the flange defining the available opening through which the material may flow, freely moving reducing bodies in the barrel, and a door or plate secured to the barrel, and a door or plate secured to the barrel having a maximum dimension less than the diameter of the opening aforesaid and adapted to be moved across said opening to form with the boundaries thereof an annular passageway for the direct discharge of the material.

15,621. ROLLER MILL. FRANK E. MARCY, Los Angeles, Calif. Filed Nov. 29, 1922. Serial No. 604,093. Original No. 1,361,601, dated Dec. 7, 1920, Serial No. 273,097, filed Jan. 25, 1919. Renewed Oct. 13, 1920, Serial No. 416,773. 7 Claims. (Cl. 83—9.)

1. In a mill of the character described, a tumbling barrel having a feed end and a discharge end respectively at its opposite extremities and adapted to contain longitudinally extending loose freely movable reducing bodies, an inwardly projecting flange at the discharge end of the barrel, and a guard closing across the plane of disposition of the flange and movable at will without disturbing the other parts of the mill to permit access to the interior of the barrel, said flange being provided with a passageway outward of its inner edge for effecting the direct discharge of material from the barrel.



15,622. ROLLER MILL. FRANK E. MARCY, Los Angeles, Calif. Filed Nov. 29, 1922. Serial No. 604,094. Original No. 1,361,601, dated Dec. 7, 1920, Serial No. 273,097, filed Jan. 25, 1919. Renewed Oct. 13, 1920, Serial No. 416,773. 9 Claims. (Cl. 83—9.)

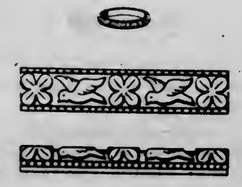


1. In a mill of the character described, a rotatable barrel having a feed end and a discharge end and provided with a reducing compartment adapted to contain longitudinally extending, loose, freely movable, reducing rods, and a rod-intercepting guard closing across the discharge end and adapted to be moved at will to a position to permit access to the reducing compartment, said guard having its inner surface substantially free of obstructions to free movement of the rods having a discharge opening extending through it from one side to the other for the discharge of the material from the reducing compartment directly through the guard, and the said guard serving when in closed position to intercept the reducing rods to prevent their accidental escape.

DESIGNS.

JUNE 5, 1923.

62,439. PIN, BROOCH, BRACELET, FINGER RING, OR ARTICLE OF SIMILAR NATURE. GUSTAVE BASTHEIM, Pittsburgh, Pa. Filed Feb. 16, 1922. Serial No. 734. Term of patent 3½ years.



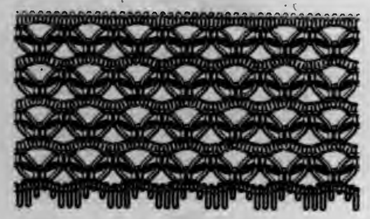
The ornamental design for a pin, brooch, bracelet, finger ring, or article of similar nature as shown.

62,440. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,122. Term of patent 3½ years.



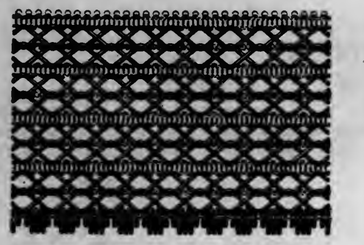
The ornamental design for a textile fabric, as shown.

62,441. LACE. JAMES G. CURRIE, Philadelphia, Pa. Filed Jan. 29, 1923. Serial No. 5,025. Term of patent 7 years.



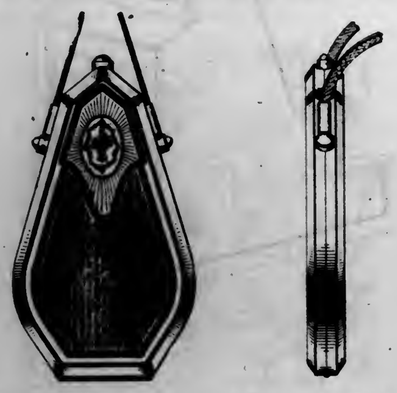
The ornamental design for lace, as shown.

62,442. LACE. JAMES G. CURRIE, Philadelphia, Pa. Filed Jan. 29, 1923. Serial No. 5,026. Term of patent 7 years.



The ornamental design for lace, as shown.

62,443. VANITY CASE. THEODORE W. FOSTER, Providence, R. I., assignor to Theodore W. Foster and Brother Company, a Corporation of Maine. Filed Aug. 23, 1922. Serial No. 3,531. Term of patent 3½ years.



The ornamental design for a vanity case, as shown.

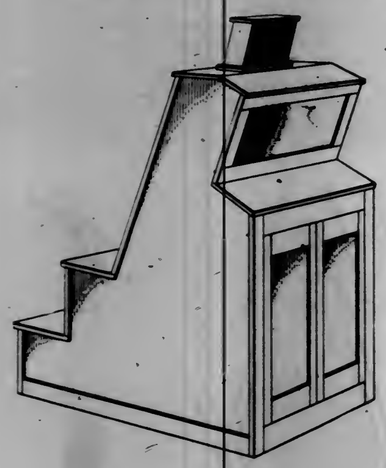
62,444. NECKTIE AND HANDKERCHIEF HOLDER. HAROLD GASHYESVA, Tuba City, Ariz. Filed Nov. 9, 1922. Serial No. 4,243. Term of patent 14 years.





The ornamental design for a necktie and handkerchief holder, as shown.

62,445. CABINET. WILLIAM GUILLIAUME, Milwaukee, Wis., assignor to General Industrial X-Ray Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 3, 1922. Serial No. 4. Term of patent 3½ years.



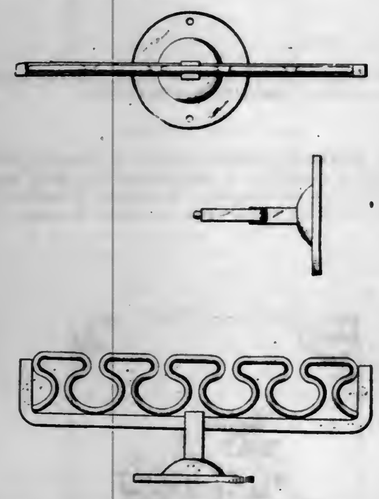
The ornamental design for a cabinet, as shown.

62,446. SUPPORT FOR LAMPS AND THE LIKE. GEORGE GRAFF, New York, N. Y., assignor to Graff, Washbourne & Dunn, a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,471. Term of patent 14 years.



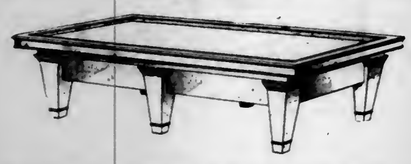
The ornamental design for a support for lamps and the like as shown and described.

62,447. TOOTHBRUSH HOLDER. MEYER HALPERN, New York, N. Y. Filed Jan. 20, 1922. Serial No. 288. Term of patent 3½ years.



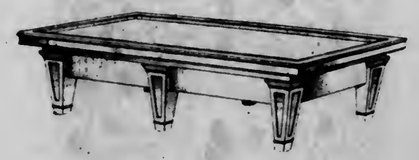
The ornamental design for toothbrush holder, as shown.

62,448. GAME TABLE. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 15, 1922. Serial No. 3,726. Term of patent 14 years.



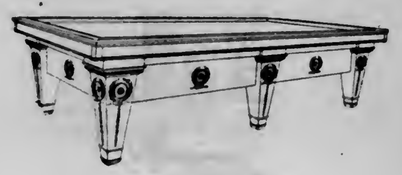
The ornamental design for a game table as shown.

62,449. GAME TABLE. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 15, 1922. Serial No. 3,727. Term of patent 14 years.



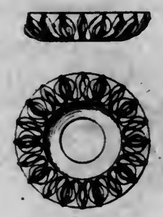
The ornamental design for a game table as shown.

62,450. GAME TABLE. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 15, 1922. Serial No. 3,728. Term of patent 14 years.



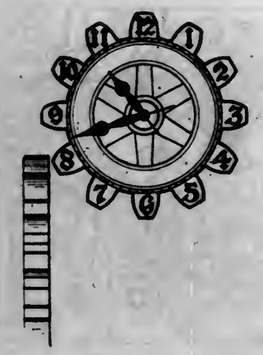
The ornamental design for a game table as shown.

62,451. STAMPING FOR LIGHTING FIXTURES. MORRIS R. HOROVITZ, Brooklyn, N. Y., assignor to Standard Metal Spinning Co., New York, N. Y. Filed June 17, 1922. Serial No. 2,713. Term of patent 7 years.



The ornamental design for a stamping for lighting fixtures, as shown.

62,452. CLOCK. EARLE M. JONES, Minneapolis, Minn., assignor to O. B. McClintock Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 5, 1922. Serial No. 2,536. Term of patent 14 years.



The ornamental design for a clock, as shown.

62,453. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,119. Term of patent 3½ years.

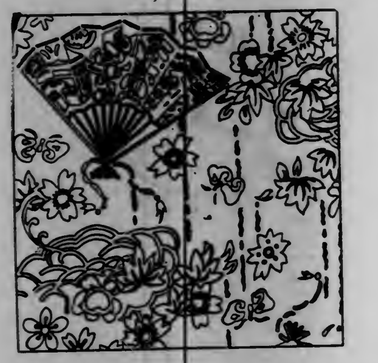
The ornamental design for a textile fabric, as shown.

62,454. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,120. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,455. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,121. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,456. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,114. Term of patent 3½ years.



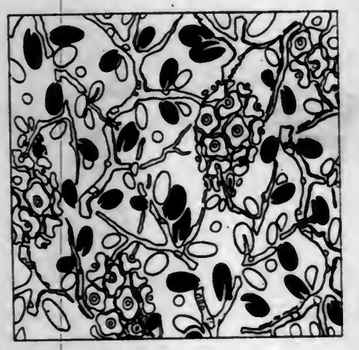
The ornamental design for a textile fabric, as shown.

62,457. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,115. Term of patent 3½ years.



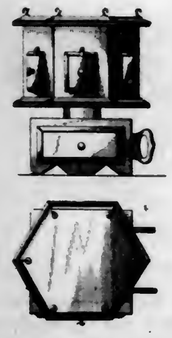
The ornamental design for a textile fabric, as shown.

62,458. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,116. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,459. SEWING CABINET. GEORGE A. MURRAY, Concord, N. H. Filed Dec. 27, 1922. Serial No. 4,724. Term of patent 7 years.



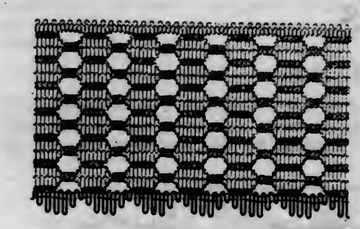
The ornamental design for a sewing cabinet as shown.

62,460. TEXTILE FABRIC. MAX ROTHSCHILD, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,111. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,461. LACE. HARRY L. STERN, Philadelphia, Pa. Filed Jan. 29, 1923. Serial No. 5,024. Term of patent 7 years.



The ornamental design for lace, as shown.

62,462. CANDY. EVA TYNER, Canon City, Colo. Filed Aug. 31, 1922. Serial No. 3,607. Term of patent 3½ years.



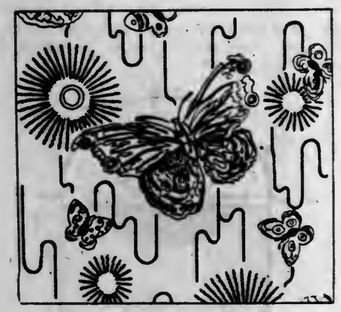
The ornamental design for a candy, as shown.

62,463. SIGN. MYRON S. WALL, Berkeley, Calif., assignor to Standard Oil Company, San Francisco, Calif., a Corporation of California. Filed May 14, 1921. Serial No. 469,564. Term of patent 14 years.



The ornamental design for a sign as shown.

62,464. TEXTILE FABRIC. VIRGINIA WEISS, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,112. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,465. TEXTILE FABRIC. VIRGINIA WEISS, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1923. Serial No. 5,113. Term of patent 3½ years.

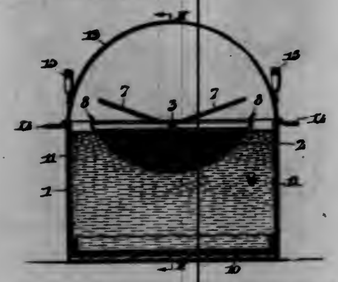


The ornamental design for a textile fabric, as shown.

PATENTS

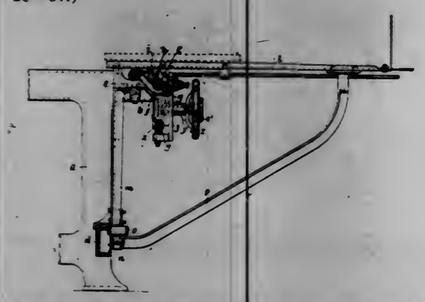
GRANTED JUNE 5, 1923.

1,457,292. SIFTING DEVICE. MATTHEW ADAM, Philadelphia, Pa. Filed Mar. 29, 1920. Serial No. 369,654. 4 Claims. (Cl. 83—60.)



1. A sifting device comprising a precipitating tank for a washing liquid; a sieve for the material to be sifted, adapted to revolve in said precipitating tank; and a removable screen for receiving the precipitated siftings, said screen being disposed adjacent the bottom of the tank and provided with extended straps having lateral handle members overhanging the upper edges of said tank.

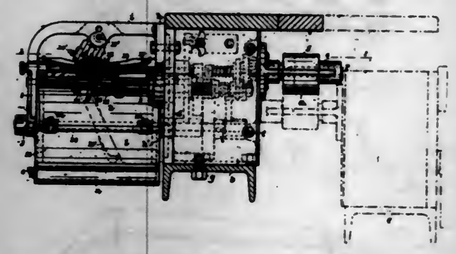
1,457,293. WARPING MACHINE. GEORGE ADSIT, Paterson, N. J., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 6, 1921. Serial No. 505,719. 6 Claims. (Cl. 28—37.)



1. A warping machine including, in combination, with a frame having at one end a main horizontal guideway extending transversely and facing upwardly and also inwardly and also having below the main guideway another transverse horizontal guideway, a carriage having its center of gravity outward of both guideways and also having a bearing upon the upwardly and inwardly facing portions of the first guideway and also a bearing on the other guideway.

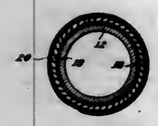
1,457,294. QUILLING MACHINE. GEORGE ADSIT, Paterson, N. J., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 6, 1921. Serial No. 505,720. 2 Claims. (Cl. 242—27.)

1. In combination, a support, a horizontal rotary spindle journaled therein, a thread traversing mechanism movable back and forth in said support substantially lengthwise of the spindle, a barrel cam journaled in said support beside and on an axis parallel with the spindle, means to transmit movement from the cam to



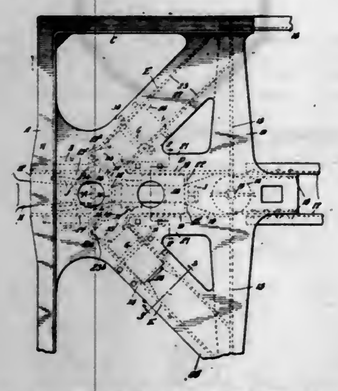
said mechanism, and a lubricant absorbing wiper extending longitudinally of and bearing against the periphery of the cam.

1,457,295. PIPE PROTECTOR. SANTINO BADO, Mount Vernon, N. Y. Filed July 28, 1921. Serial No. 488,057. 2 Claims. (Cl. 137—75.)



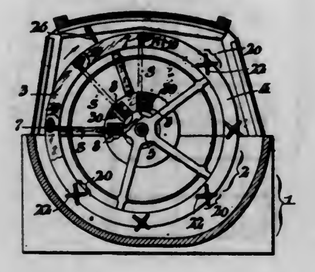
1. In combination with a metallic pipe, a layer of tar paper contacting the outer surface of the same and completely covering said surface, a layer of tar rope wound about said tar paper with the windings contiguous, and a layer of tar applied to said twine layer providing a smooth outer surface.

1,457,296. CAR CONSTRUCTION. WILLIAM J. BOHAN, St. Paul, Minn. Filed Aug. 13, 1921. Serial No. 491,943. 11 Claims. (Cl. 105—415.)



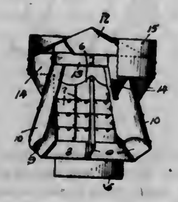
1. In car construction an underframe including: a bolster, an end sill; longitudinally extending centrally disposed draft sills between the end sill and bolster; diagonally extending combined bracing and shock-absorbing-mechanism-supporting sills from said centrally disposed draft sills to the ends of the bolster; and a shock absorbing mechanism supported by each of said diagonally extending supporting sills.

1,457,297. MACHINE FOR TREATING TEXTILE MATERIALS OR PRODUCTS. JOHN J. BROPHY, Philadelphia, Pa. Filed Mar. 14, 1922. Serial No. 543,674. 10 Claims. (Cl. 8—19.)



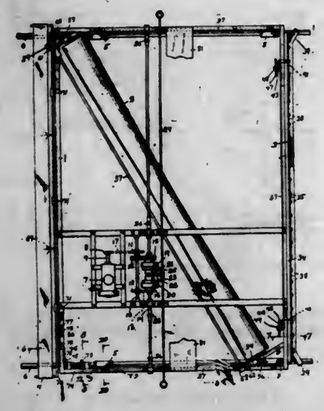
1. A machine for treating textile materials including a pair of spaced rotatable frames capable of sustaining horizontally between them, sticks or poles for hanging the articles being dyed; and engaging devices carried by said frames each comprising a cup for receiving a pole end, and a cover movable crosswise of said cup to permit insertion of the pole end, and having a complementary notch into which, when the device as a whole is partially or completely inverted during rotation of the frames, the pole end drops to a position across the line of juncture of the cup and cover to hold the latter locked against movement so long as the engaging device remains partially or completely inverted.

1,457,298. VENTILATOR. MERT T. BUCKLEY, Wichita, Kans. Filed Sept. 12, 1922. Serial No. 587,649. 2 Claims. (Cl. 98—4.)



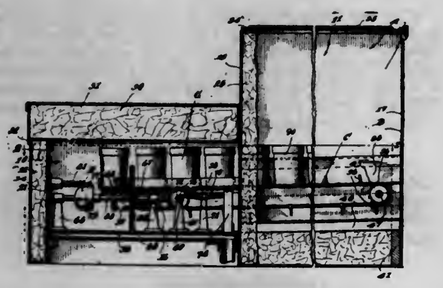
2. A ventilator comprising a base pipe having an upwardly and outwardly flaring extension, said extension provided with circumferential rows of vertically aligned slots, an outwardly and downwardly flared flange secured to said base at its point of joinder with the said extension, spaced fins secured to said base and said extension, an outwardly and downwardly flared skirt secured to said fins and enclosing said extension, fins attached to the outside of said skirt at its upper end, and a ventilator top and top band supported by said last mentioned fins, the two sets of fins being in staggered relation one to the other.

1,457,299. CONCRETE-ROAD MACHINE. EDWARD G. CARR, Chicago, Ill. Filed Dec. 29, 1921. Serial No. 525,570. 9 Claims. (Cl. 94—44.)



1. The combination in a concrete road machine, of a spreading templet, and a roller arranged at an oblique angle with respect thereto.

1,457,300. COIN-CONTROLLED DISPENSING APPARATUS. WOLFE COHEN, Revere, Mass. Filed June 11, 1921. Serial No. 476,865. 8 Claims. (Cl. 211—8.)

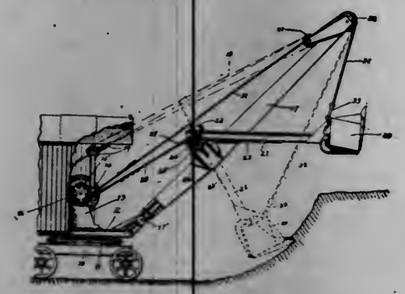


1. An ice cream dispensing machine comprising a casing having ice compartments therein, a longitudinally extending trough arranged in the casing intermediate the ice compartments, a delivery door in said casing, a trough arranged at right angles to the first trough and terminating at said door, right angularly related conveyor chains arranged in said troughs, and means for synchronously operating said chains.

1,457,301. ROPE-THRUSTING SHOVEL. WALTER FERRIS, Milwaukee, and SVANTE R. W. M. BAGER, South Milwaukee, Wis., assignors to Bucyrus Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1921. Serial No. 455,302. 12 Claims. (Cl. 214—135.)

1. In a power shovel, the combination of a rotatable platform, two independently rotatable drums mounted thereon, a boom carried thereby, a dipper and dipper handle carried by said boom for swinging and shifting movements, a hoisting cable connected at one end with

one of said drums and at the other end with said dipper for raising and lowering said dipper and for shifting said dipper handle in one direction only, a sec-



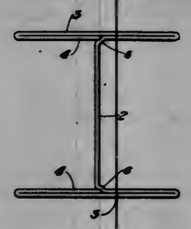
ond cable connected with the other of said drums and associated with said dipper handle for shifting said handle in another direction.

1,457,302. RAIL JOINT. FREDERICK E. HARDER, Detroit, Mich. Filed Dec. 7, 1922. Serial No. 605,338. 3 Claims. (Cl. 238—208.)



3. A rail chair comprising a base adapted to receive a rail flange and having side arms, one of which is adapted to lie parallel with the web of a rail and the other of which extends at an angle thereto to provide a wedge shaped space therebetween, said last mentioned side arm being provided with a plurality of openings adapted for the passage of securing pins into said rail.

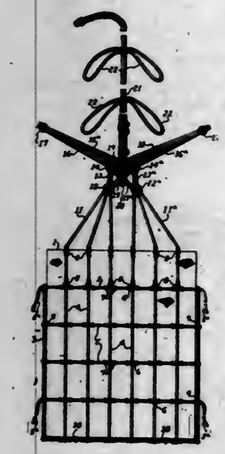
1,457,303. STRUCTURAL SHAPE. THOMAS HIGGINS, Glenshaw, Pa. Filed Feb. 18, 1922. Serial No. 537,491. 4 Claims. (Cl. 189—37.)



1. A metallic beam formed from a single flat rolled plate, comprising a web portion of single thickness and flanges of double thickness of said plate, said web portion overlying and locking the edges of the plate.

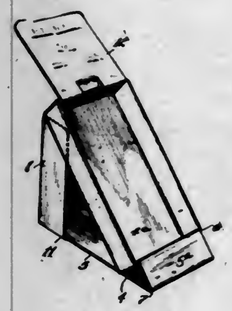
1,457,304. FIRE RESCUE BAG. HARRIETTE E. HODGSON, New York, N. Y. Filed June 16, 1921. Serial No. 477,873. 4 Claims. (Cl. 227—11.)

1. A fire-rescue device comprising a flat bag of flexible material, an enclosing network of vertical and transverse strands, the vertical strands being brought together in two groups and knotted together above the top of the



bag, and a lowering cable which is looped through this knotted structure.

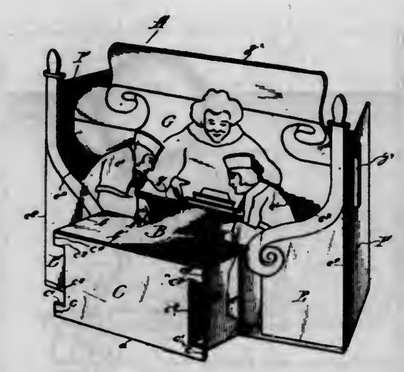
1,457,305. DISPLAY CARTON. JOHN V. HOBE, Cleveland, Ohio, assignor to Albert T. Fischer, Cleveland, Ohio. Filed July 24, 1919. Serial No. 312,932. 5 Claims. (Cl. 206—44.)



3. A display carton, comprising a body portion having an open top, a cover having one end thereof hingedly secured to the body adjacent an end of the open top, an easel member having side members and an end member which joins the side members, the said cover member extending between the side members of the easel and within the end member of the easel, said cover being hingedly connected with the easel adjacent an edge of the end member of the easel.

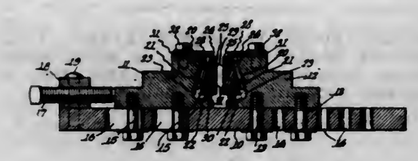
5. A display carton, comprising a body portion having an open top, a cover therefor, a display card independent of said cover and hingedly secured to said body portion, adjacent an edge of the open top, a tab member formed as a part of said display card, the body of the carton being provided with a slot adapted to receive said tab and within which opening the tab is adjustable, thereby to support the card in desired position.

1,457,306. DISPLAY CARD. CHARLES B. KELLOGG, Chicago, Ill. Filed June 22, 1922. Serial No. 570,208. 12 Claims. (Cl. 40—126.)



1. A display card made from a single blank, comprising a table top having front and side supports, and side members shaped to a predetermined design attached to the side supports, said side members being interlocked with the table top intermediate the rear and front edges thereof.

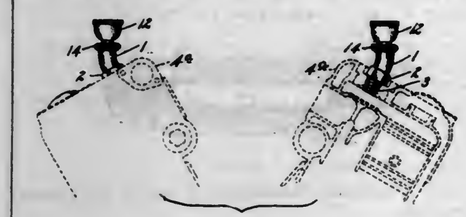
1,457,307. VISE. ORLANDO C. KERNS, Akron, Ohio. Filed Feb. 20, 1922. Serial No. 538,030. 2 Claims. (Cl. 90—60.)



1. In a holding device of the character described, main jaws, said jaws being provided upon their inner sides with cut out portions, said cut out portions having upstanding inclined faces converging upwardly, said faces having longitudinal ribs projecting inwardly and laterally from the faces provided with slots, auxiliary jaws arranged within the cut out portions and having outer inclined faces converging upwardly to slidably contact with the inclined faces of the main jaws, said auxiliary jaws being provided in their inclined faces with longitudinal grooves receiving said ribs, transverse elements carried by the auxiliary jaws and passing through the longitudinal slots in the ribs and serving as stops to limit the upward movement of the auxiliary jaws, springs arranged beneath the jaws and serving to move them upwardly and means to adjust one main jaw with relation to the other.

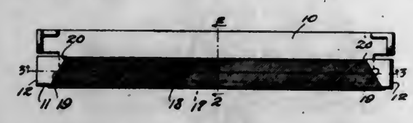
1,457,308. PRIMING DEVICE. WALTER S. KILLAM, Detroit, Mich. Filed Oct. 8, 1921. Serial No. 506,260. 3 Claims. (Cl. 123—187.5).

1. In a priming device wherein a cup is supported in a vertical position and has a needle valve movable by rotation to and from an angular end of a longitudinal passage in a support for the cup and wherein the needle valve controls the admission of a priming agent to the passage and is adapted to close the passage by seating on said support at the end of the passage therein:—means for holding said cup seated on said support against



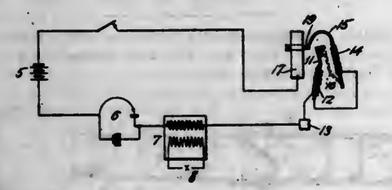
accidental unseating, said means comprising a rotatable nut engaging said support and by such engagement preventing accidental rotation of said cup.

1,457,309. ATTACHMENT FOR LAWN MOWERS. HENRY F. W. KOHLBACH, Fort H. G. Wright, N. Y. Filed May 5, 1922. Serial No. 558,807. 1 Claim. (Cl. 76—82.)



A sharpening device for a lawn-mower comprising a plate having a longitudinal recess for the reception of the stationary blade of a mower, upstanding lugs on the ends of the plate and having their inner faces extending obliquely across the face of the plate, the upper portions of the oblique inner faces of the lugs being undercut and the lower portions vertical, means engaged through the plate for engagement with the stationary blade of a mower, and a removable file disposed on the plate and overlying the said recess and having its ends extending obliquely and being undercut for wedging engagement with the upper portions of the inner faces of the said lugs.

1,457,310. CURRENT REGULATOR FOR IGNITION SYSTEMS. STANLEY D. LIVINGSTON, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Jan. 28, 1920. Serial No. 354,596. 20 Claims. (Cl. 123—148.)

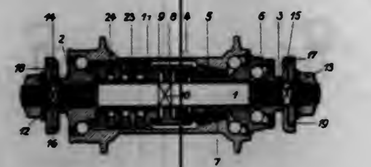


1. In a motor ignition system, the combination of an automatic switch, a resistance, and thermostatic means including a heating coil for automatically short circuiting the resistance when the speed of the motor increases above a predetermined limit.

1,457,311. FREE WHEEL HUB. HANS LUDWIG, Oberursel am Taunus, Germany. Filed Aug. 1, 1921. Serial No. 489,028. 18 Claims. (Cl. 192—6.)

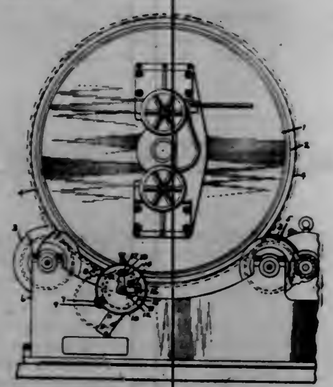
1. In free wheel hubs the combination of a back pedalling brake with means within the hub for transmitting

the braking momentum from the hub to the axle of the hub, and means for securing both ends of this axle



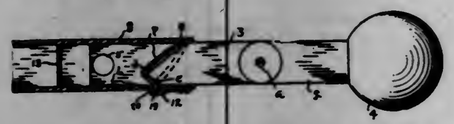
fixedly to the frame substantially as and for the purpose described.

1,457,312. REVERSING MECHANISM. OLIVER J. MARSHICK and EDWIN L. CROSBY, Detroit, Mich. Filed Nov. 15, 1920. Serial No. 424,088. 5 Claims. (Cl. 204—64.)



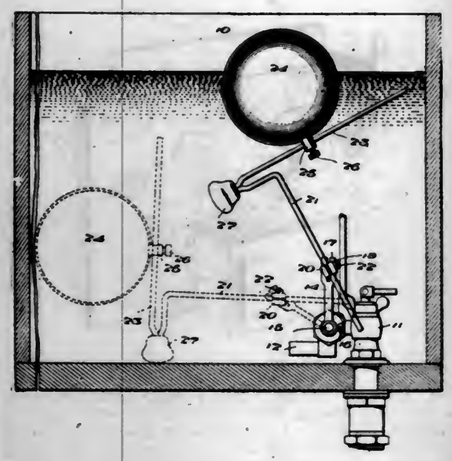
1. In a reversing mechanism, in combination with a rotatable gear wheel operatively connected with a rockable furnace drum, a pair of adjustable limiting arms adapted to be fixed in position for engagement by a projecting portion of said gear wheel at the selected ends of its path of travel, a pair of oppositely disposed contact terminals, and a second gear wheel operatively connected with said first-named gear wheel, adapted to be rocked by the movement thereof into contact of a projection thereon against one or the other of said oppositely disposed contact terminals.

1,457,313. PHONOGRAPH. RALPH W. MORRISON, Omaha, Nebr. Filed Jan. 13, 1920. Serial No. 351,150. 8 Claims. (Cl. 274—24.)



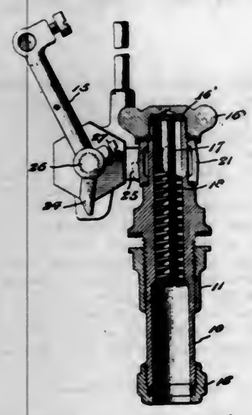
1. In an improvement in a phonograph having a pivotally mounted tone arm and having a sound-conducting tube provided with apertures in its side wall and pivotally mounted on the tone arm, an apertured sound reproducer rotatably mounted on said tube and provided with diaphragms and stylus-bars, and means coactive with the rotation of the sound reproducer for moving it longitudinally of the tube to dispose one of its stylus-bars at a predetermined distance from the pivotal mounting of the tone arm and to dispose one of its apertures in register with an aperture of said tube.

1,457,314. FLOAT-VALVE-OPERATING MECHANISM. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 29, 1919. Serial No. 334,121. 16 Claims. (Cl. 137—104.)



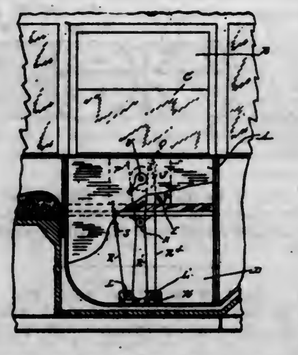
7. In combination, a valve casing, a valve in said casing, an operating arm for said valve, a connecting rod laterally adjustable in said arm, a float-carrying rod longitudinally adjustable in said connecting rod, and a float vertically and angularly adjustable on said carrying rod.

1,457,315. FLUSH VALVE FOR TANKS. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 12, 1919. Serial No. 337,485. 9 Claims. (Cl. 137—104.)



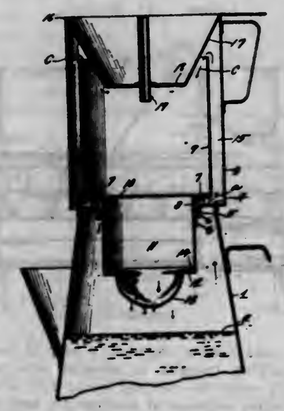
3. A valve of the class described comprising an inlet stub having an open-ended passage, a valve body, a valve chamber in said body communicating with said passage through an elbow extension, a flow impeding member mounted in said passage, and a closure cap secured to one end of said stub to permit removal of said flow impeding member without disturbing the valve parts.

1,457,316. WINDOW-CONTROL MECHANISM. ARTHUR R. PRICE, Detroit, Mich., assignor of one-half to Secord M. Ross, Detroit, Mich. Filed Apr. 11, 1921. Serial No. 460,539. 1 Claim. (Cl. 268—4.)



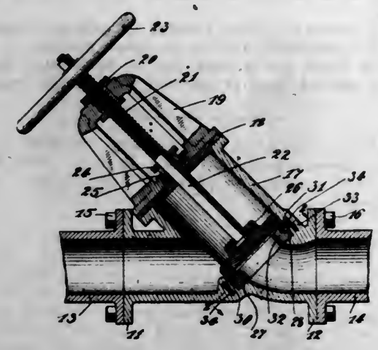
In a window control mechanism, the combination with a vertically sliding window member and a chamber receiving said member in its lowered position, of an actuating cable for said window member, a driving sheave in the upper portion of said chamber upon which an intermediate portion of the cable is coiled, one of the coils of said cable being secured to said driving sheave, actuating means for said sheave, a pair of spaced sheaves in the bottom portion of said chamber under which portions of said cable are looped, a pair of axially aligned sheave mounted upon the window member over one of which a portion of said cable is looped intermediate the loops engaging said sheaves in the bottom portion of said chamber, a portion of the cable being looped under the other sheave on said window member, said sheaves upon the window member being engageable between said sheaves in the bottom portion of said chamber in the lower limiting position of said window member.

1,457,317. DRIP COFFEEPOT. DANIEL G. SELL, Kansas City, Mo. Filed July 10, 1922. Serial No. 574,050. 4 Claims. (Cl. 53—3.)



1. A coffee making utensil comprising a water receptacle adapted to be placed over a fire and having its upper end opened, a main receptacle supported on the upper end of the water receiving receptacle and having an opening in its bottom, an auxiliary receptacle disposed within the main receptacle and smaller than the main receptacle, supporting lugs for supporting the bottom of the auxiliary receptacle spaced from the bottom of the main receptacle, a coffee receiving cup disposed within the auxiliary receptacle and extending downwardly through the opening in the bottom of the main receptacle into the water receptacle and a cold water pan supported on the upper end of the main receptacle and extending downwardly into the upper end of the auxiliary receptacle and spaced from the walls thereof.

1,457,318. VALVE. GEORGE F. SHEVLIN, Glens Falls, N. Y. Filed July 22, 1921. Serial No. 486,660. 6 Claims. (Cl. 251—167.)



5. In a valve, a casing of relatively soft metal having a seat for a valve seat member, a valve seat member, a ring having an inclined surface cast in the periphery of the valve seat member, a ring member of relatively hard metal embedded in the said casing adjacent the seat for the valve seat member and having a plurality of spaced lugs extending therefrom to approximately the surface of the said casing, and means associated with the said lugs and adjustable to position therein exteriorly of the casing to engage the inclined surface of the ring in the valve seat member to maintain the valve seat member in position and to be disengaged from the valve seat member to permit the removal thereof from the casing.

1,457,319. GROWING OF YEAST. BERT A. STAGNER, Pittsburgh, Pa., assignor to National Retarder Company, Chicago, Ill., a Corporation of Ohio. Filed July 25, 1919. Serial No. 313,332. 4 Claims. (Cl. 195—20.)

1. The method of growing bakers' yeast of good color, odor, and keeping qualities, and having good baking strength in the manufacture of leavened bread, comprising growing said yeast with nutrient mediums containing suitable carbohydrate material and a nitrogenous yeast food made by hydrolyzing collagen containing material with lime and water at an elevated temperature.

1,457,320. GROWING OF YEAST. BERT A. STAGNER, Pittsburgh, Pa., assignor to National Retarder Company, Chicago, Ill., a Corporation of Ohio. Filed July 25, 1919. Serial No. 313,333. 3 Claims. (Cl. 195—20.)

1. The method of growing baker's yeast of good color, odor and keeping qualities, and having good baking strength in the manufacture of leavened bread, comprising growing the said yeast with nutrient mediums containing suitable carbohydrate material and a nitrogenous yeast food made by hydrolyzing elastin containing materials with lime and water at an elevated temperature.

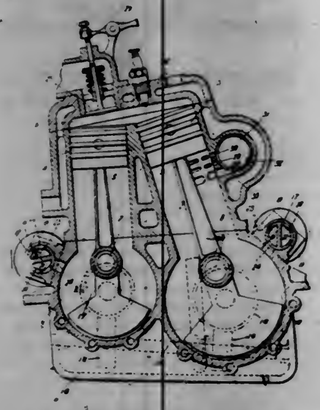
1,457,321. CRAWFISH DESTROYER. BENJAMIN H. STRONG, West Point, Miss. Filed June 29, 1922. Serial No. 571,800. 5 Claims. (Cl. 167—6.)

1. A solid product suitable for killing crawfish and similar borers, which comprises a small amount of a cyanid together with a bonded hard mass of material which is capable of disintegration by water, such mass of material being many times greater than the amount of cyanid, and such solid product being rounded so as to readily roll and of a size adapted to be introduced into and to roll downwardly in a hole of a crawfish.

3. A body of generally rounded shape, of a size adapted to be introduced into and to roll downwardly in a crawfish hole, comprising a cyanid and a major portion of a material of a nature which crawfish will not eat.

5. A process of killing crawfish by causing a generation of hydrocyanic acid in the lower portions of the holes in which the crawfish live, by introducing thereinto a rounded mass of material containing a cyanid.

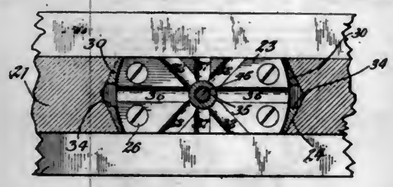
1,457,322. INTERNAL-COMBUSTION ENGINE. ALBERT HOWELL SPROULE, London, England. Filed Oct. 5, 1920. Serial No. 414,851. 20 Claims. (Cl. 123—53.)



1. In an internal combustion engine, having one or more cylinder units, two pistons in each cylinder unit, a common combustion space for the two pistons, two separate cranks, one to each piston, a connection from each piston to its crank, positive gearing between the two cranks so that they will rotate at relatively different speeds, and means to enable one of the pistons to be advanced relatively to the other so as to vary the effective volume of the combustion space to suit different loads and conditions, either during the operative or inoperative periods of the engine.

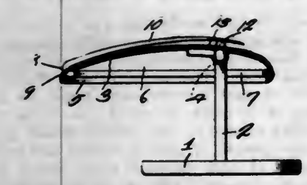
1,457,323. SASH CENTER. CLINTON D. TABOR, Huntington, N. Y., assignor of one-half to Herman I. Sorensen, New York, N. Y. Filed Feb. 15, 1921. Serial No. 445,139. 6 Claims. (Cl. 16—142.)

6. A sash center comprising two plates adapted to be connected respectively with the frame and sash of a window, one of said plates having an inwardly dished outer chamber, the bottom of which is provided with a central bearing opening and a plurality of guide openings arranged around said bearing opening, and the other plate being provided with a pivot hub which is journaled in said bearing opening and a plurality of locking grooves which are arranged at different angles, a locking bar arranged between said plates and provided with a rib adapted to engage with one or another of said grooves and also with a plurality of tension pins projecting through said guide openings, a flat metal spring arranged in said outer chamber and engaging



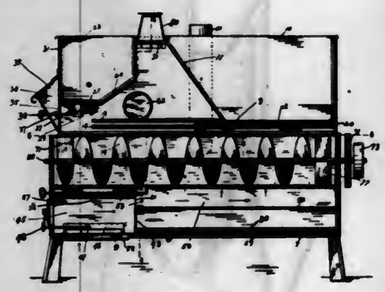
different parts of its margin with the ends of said pins, and a bolt arranged in said hub and connecting the central part of said spring with the plate having said hub.

1,457,324. COLLAR BUTTON AND TIE HOLDER. JAMES A. TAYLOR, Waco, Ky. Filed Nov. 2, 1922. Serial No. 598,580. 2 Claims. (Cl. 24—63.)



1. A collar button comprising a base, a post carried by said base, a head pivotally mounted on said post, the upper end of the post extending through an aperture in the head, a pin carried by the head and having one of its ends anchored to the head adjacent one side thereof, the free end of the pin extending across the aperture in the head, said upper end of the post forming means whereby upon a movement of the head to a position in parallel relation to the base the free end of the pin will be forced outwardly.

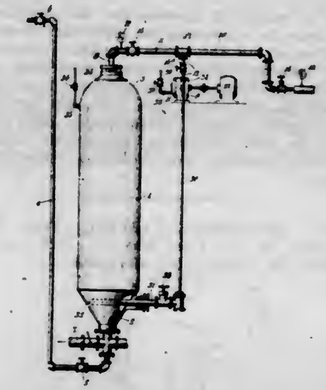
1,457,325. FEED-MIXING MACHINE. MARTIN F. THATCHER, York, Pa. Filed Dec. 24, 1921. Serial No. 524,593. 17 Claims. (Cl. 99—2.)



1. In a feed mixing machine, a pair of longitudinally disposed mixing troughs, a conveyer mounted in each trough, said conveyers rotating in opposite directions, and a paddle wheel mounted at an opposite end of each conveyer to rotate therewith for throwing material into the other conveyer, one of said troughs being provided with a discharge opening adjacent one end thereof but out of the zone of the paddle wheel.

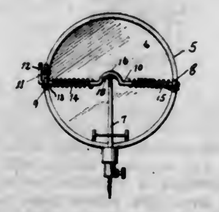
14. In a feed mixing machine, a pair of longitudinally disposed mixing troughs, a conveyer mounted in each trough, said conveyers being geared together and rotating in opposite directions, a paddle wheel mounted at an opposite end of each conveyer and rotatable therewith for throwing material into the other conveyer, an enclosure arranged in superposed relation to said mixing troughs having side and end walls, partition walls extending between said side walls forming a hopper at each end of said enclosure with an intermediate air space, a boiler mounted in said air space having a connection leading to the interior of one of said hoppers, a heating chamber having heat insulated bottom and side walls and being in heat interchanging relationship with the walls of said mixing troughs, a combustion chamber below one of said mixing troughs and communicating with said heating chamber, a steam coil in said combustion chamber having inlet and outlet connections with said boiler, a burner in said combustion chamber and means in said combustion chamber for regulating the heating effect of said burner upon said steam coil.

1,457,326. PROCESS OF AND APPARATUS FOR COOKING FIBROUS MATERIALS. JOHN D. TOMPKINS, Valatie, N. Y. Filed Apr. 12, 1919. Serial No. 289,694. 17 Claims. (Cl. 92—7.)



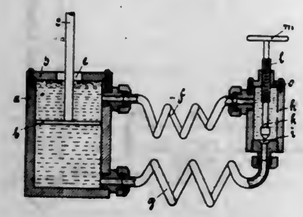
1. The process of cooking fibrous material consisting in withdrawing gases from the top of the digester and re-introducing them into the bottom thereof by means of a pump, introducing steam into the gases before they reach the pump and using the water of condensation as a compressing member for the gases in the pump.

1,457,327. TONE REGULATOR. CHARLES O. TUCKER, Hutchinson, Kans. Filed Nov. 2, 1921. Serial No. 512,235. 4 Claims. (Cl. 274—27.)



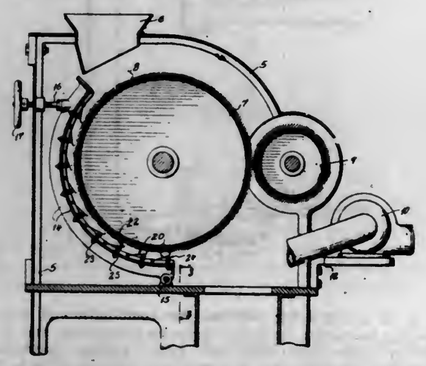
1. The combination with a sound box, a diaphragm and stylus carrying member, of diametrically opposed attaching members formed on the outer periphery of the sound box, teeth formed on one of said attaching members, a transversely extending rod having a bent end adjustable on said teeth and resilient means secured on said rod whereby the contacting pressure with the stylus carrying member may be varied to regulate the volume of tone.

1,457,328. DAMPING DEVICE FOR WEIGHING APPARATUS. CORNELIS FRANCISCUS MARIE VAN BERKEL, Rotterdam, Netherlands, assignor to Maatschappij Tot Vervaardiging van Snijmachines Volgens "Van Berkel's Patent" en van Andere Werktuigen, Rotterdam, South Holland, Netherlands, a Limited Liability Company of The Netherlands. Filed Mar. 30, 1921. Serial No. 457,135. 1 Claim. (Cl. 188—97.)



In weighing apparatus, the combination of a damping cylinder open at its top, a communication between the upper portion of the cylinder and the lower portion of the cylinder including a substantially horizontal pipe leading from the upper portion of the cylinder and a pipe leading from the lower portion of the cylinder and a throttle valve between the said pipes, said throttle valve comprising a casing open at its top and connected near its top with the horizontal pipe and connected near its bottom with the other pipe and means in the casing for controlling the flow of liquid therefrom into the said other pipe and vice versa.

1,457,329. COTTONSEED-LINTING MACHINE. FELIX E. VOORHIES, Dallas, Tex. Filed June 25, 1921. Serial No. 480,332. 3 Claims. (Cl. 19—44.)

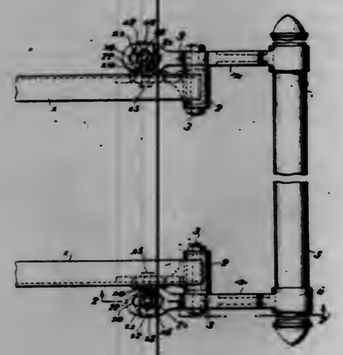


1. A cotton seed linting machine comprising a frame support, a plurality of linting blades made of sheet metal and having one edge attached to the frame support, and the other edge turned at an angle with the blade to form a lint cutting edge, and means to force seed over the cutting edge.

1,457,330. AUTOMOBILE BUFFER. ASTLEY W. WHARTON, Churchville, Pa. Filed Feb. 28, 1923. Serial No. 621,867. 3 Claims. (Cl. 293—55.)

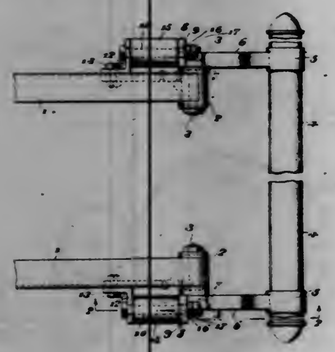
1. In a buffer for vehicles, the combination of levers for supporting a buffer bar, means for pivotally sup-

porting said levers intermediate their ends upon the front or rear end portion of a vehicle structure, the inner portions of the said levers being provided with longitudinally extending slots, bolts extending through said slots, means for adjustably supporting the said bolts at



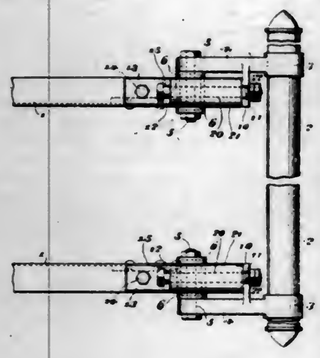
their upper ends, the said bolts being adapted to be adjusted in directions at right angles to the slots in said levers, and yielding resilient means secured upon said bolts upon opposite sides of the inner end portions of said levers, substantially as described.

1,457,331. AUTOMOBILE BUFFER. ASTLEY W. WHARTON, Churchville, Pa. Filed Feb. 28, 1923. Serial No. 621,868. 3 Claims. (Cl. 293—55.)



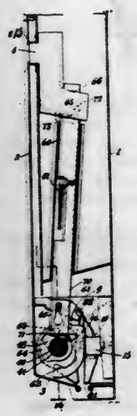
1. In a buffer for vehicles, the combination of levers having forwardly extending arms and upwardly and vertically extending arms, the latter having horizontal openings therethrough, a buffer bar supported upon the outer ends of the forwardly extending arms, means for pivotally connecting the said levers at the angles between the said arms to one or the other end portions of a vehicle structure, horizontally extending bolts having connection at their inner ends to the said vehicle structure and at their forward ends extending through the openings in the said vertical arms, elastic sleeves upon said bolts situated intermediate the said arms and the portions of the said vehicle structure to which the said bolts are connected, and means in engagement with the outer ends of said bolts for clamping the said sleeves between the said arms and the said portion of the vehicle structure.

1,457,332. AUTOMOBILE BUFFER. ASTLEY W. WHARTON, Churchville, Pa. Filed Feb. 28, 1923. Serial No. 621,869. 3 Claims. (Cl. 293—55.)



1. In a buffer for automobiles, the combination of arms, means for connecting the inner ends thereof to an end portion of an automobile structure, projections extending upwardly from said arms, projections upon the automobile structure situated inwardly of and in alinement with the projections upon said arms, both said projections having openings therethrough, bolts extending through the said projections, and elastic means upon said bolts intermediate said projections, substantially as described.

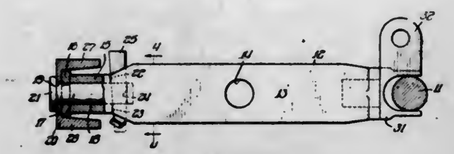
1,457,333. DISPENSING CABINET. SETH WHEELER, Castleton, N. Y. Filed May 25, 1920. Serial No. 384,033. 24 Claims. (Cl. 194—69.)



1. In a vending cabinet, a casing, means to maintain articles therein, and means to deliver said articles from said casing comprising a plurality of rollers provided with means to force said rollers apart at a predetermined delivery time.

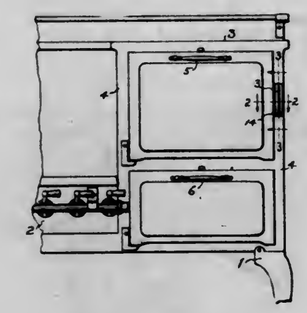
5. In a vending cabinet, a casing, means to maintain articles therein, and means to deliver said articles from said casing comprising a plurality of rollers provided with guide disks one of which has means to force said rollers apart at the time of delivery.

1,457,334. REVERSIBLE FULCRUM. LOREN L. WHITNEY, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 17, 1921. Serial No. 493,011. 8 Claims. (Cl. 188—232.)



5. In a brake beam, the combination of a compression member, a tension member, a fulcrum bracket extending therebetween and having an end in frictional engagement with one of said members, means extending through one of said members and associated with said fulcrum bracket, means for pressing the aforesaid means and said fulcrum bracket into frictional engagement with one of said members for yieldably retaining said fulcrum bracket in adjusted position, and means for limiting said fulcrum bracket in its reversible movements.

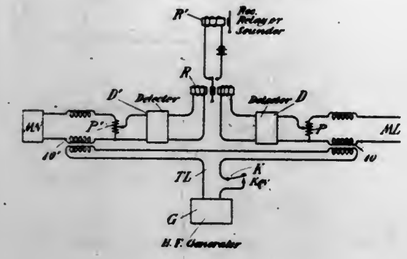
1,457,335. OVEN THERMOMETER. GEORGE D. WILKINSON, Oak Park, Ill., assignor to Cribben & Sexton Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1921. Serial No. 492,233. 3 Claims. (Cl. 73—119.)



1. A stove having an oven, a front frame for the oven having a countersunk seat, and a thermometer mounted in the seat of the front-frame and having its heat-responding leg extending through said frame and located in the oven.

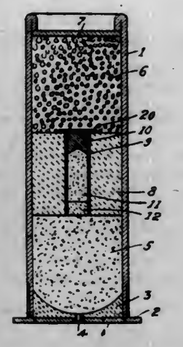
1,457,336. BALANCING CIRCUITS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 30, 1919. Serial No. 327,456. 6 Claims. (Cl. 179—15.)

1. In a signaling system, a transmission circuit, a sending circuit, a receiving circuit, a balancing circuit for balancing said transmission circuit, whereby said sending and receiving circuits may be made substantially conjugate, means for translating signals originating in said sending circuit into high frequency currents, means for translating received high frequency currents into low frequency signaling currents to be transmitted over said receiving circuit, one of said translating means being included in tandem between said transmission circuit and



said balancing circuit independently of the corresponding signalling circuit, so that the energy to be balanced undergoes a change of frequency before the balance is effected.

1,457,337. SHOTGUN SHELL. EARLE M. BARROWS, Minneapolis, Minn. Filed Jan. 20, 1919. Serial No. 272,130. 14 Claims. (Cl. 102—15.)

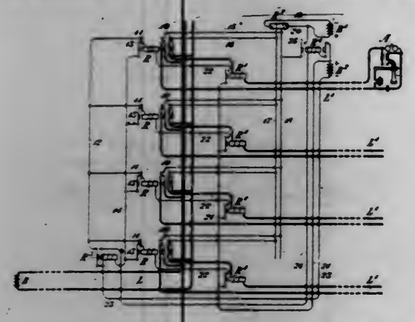


11. A device of the class described comprising a wad, a tracer projectile mounted therein for separation therefrom after the wad has passed out of the shell, said projectile having a weighted forward end for directing its flight and containing a combustible composition, with means for delaying the ignition of such composition.

1,457,338. SELECTIVE CONNECTION OF TRUNK LINES. LEON D. BARROWS and LEO H. DARROW, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 1, 1919. Serial No. 286,670. 5 Claims. (Cl. 179—32.)

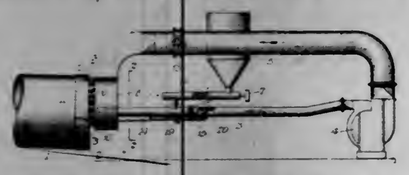
1. In a telephone system, a plurality of associated stations, a line for connecting said stations to a distant station, talking conductors for each station, relays associated with each of said talking conductors, relays controlled by each of said first mentioned relays, means controlled by said second mentioned relays whereby exclusive connection may be established between any one of the associated stations and distant station, a retardation coil common to said associated stations, and

means whereby said retardation coil will be intermittently short circuited through one of its windings and a busy



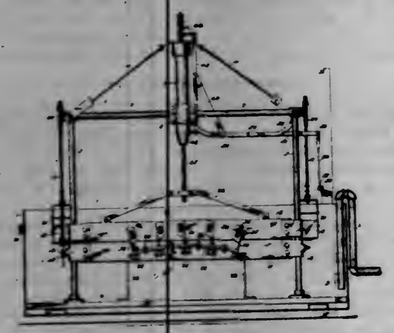
tone transmitted to any of the associated stations upon an attempt to send a call therefrom while the line is in use.

1,457,339. KILN AND BURNER THEREFOR. EDWIN M. BASSLER, Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,624. 7 Claims. (Cl. 110—104.)



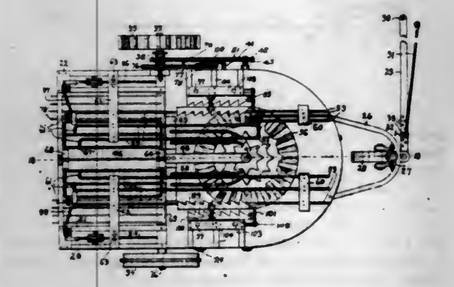
1. The combination of a kiln and a burner therefor, said burner comprising a fuel supply pipe, means for creating a current of air therethrough forming a primary air supply, a header, pipes which connect said header with the interior of the kiln and are spaced radially from said fuel supply pipe, and means for supplying air under pressure to said header forming a secondary air supply, said secondary air supply being of relatively low pressure and large volume as compared with the primary air supply, substantially as described.

1,457,340. SPRING FORMING AND QUENCHING MACHINE. JOHN F. BEANS, Canton, Ohio, assignor to The Beans Spring Company, Massillon, Ohio, a Corporation of Ohio. Filed Oct. 14, 1921. Serial No. 507,674. 9 Claims. (Cl. 266—6.)



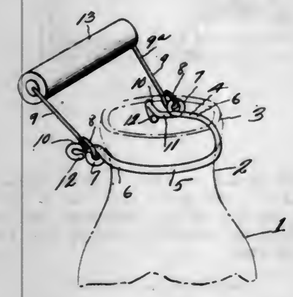
1. A spring forming and quenching machine including a tank containing quenching liquid, a forming head comprising upper and lower jaws mounted for vertical movement into and out of said tank, means connected to the upper jaw for raising and lowering the same, means for suspending the lower jaw from the upper jaw and means independent of the upper jaw for counterbalancing the lower jaw.

1,457,341. HARVESTER. FREDERICK G. BLESSEN, Creston, Nebr. Filed May 10, 1920. Serial No. 380,168. 9 Claims. (Cl. 56—415.)



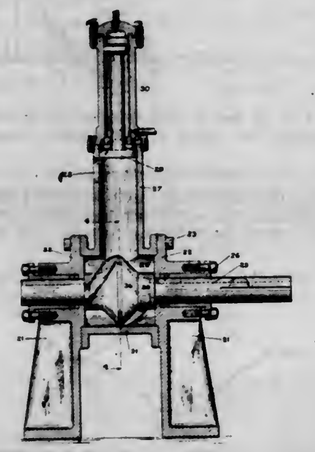
1. A grain shocker comprising a frame having opposite side channels, feeding means for delivering bundles to one of the channels, means operable upon the filling of said channel to reverse the operation of the feeding means for delivering bundles to the other channel, alternately operable packers for the channels to pack the bundles therein and controlled in operation by the filling of the first channel, and shock dumping means operable upon the filling of the second channel for delivering the packed rows of grain on the ground in interstacked relation.

1,457,342. MILK-BOTTLE CARRIER. VICTOR BOULIA, Orwell, Vt. Filed Feb. 14, 1922. Serial No. 536,430. 1 Claim. (Cl. 215—100.)



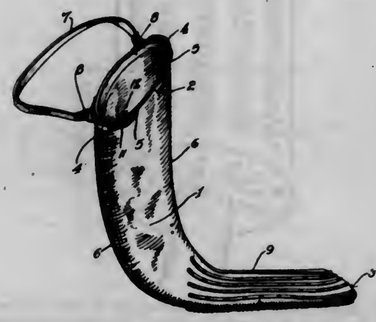
A bottle carrying device comprising a segmentally shaped neck receiving member formed from spring material, the ends of said segmentally shaped member being bent to form eyes, a bail pivotally connected to said eyes, the ends of the members beyond the eyes being bent inwardly and diverging outwardly, then downwardly and inclining inwardly toward each other beneath the diverging portions thereby forming stiff relatively large bottle neck engaging members between which the bottle neck may be easily forced to its position within the segmentally shaped member.

1,457,343. RUBBER MIXER OR LIKE MACHINE. DAVID R. BOWEN, Ansonia, Conn., assignor to Farrel Foundry & Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed Aug. 27, 1918. Serial No. 251,639. 35 Claims. (Cl. 18—2.)



1. In a rubber mixer or like machine, a working chamber, a rotor therein, means on said rotor constricting the intermediate portion of said chamber to a small extrusion space, and blades on said rotor for causing a mixing extrusion of the material through said space.

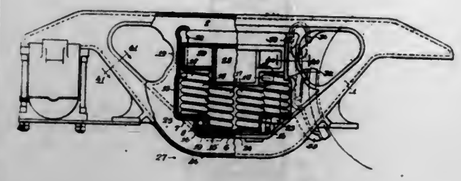
1,457,344. PICK SACK. JESSE THOS. CAMPBELL, Hornbeak, Tenn. Filed Apr. 29, 1922. Serial No. 557,353. 2 Claims. (Cl. 150—2.)



1. In a device of the class described, a sack; loop-shaped guides extended around the lateral edges of the sack and connected to the front and back of the sack in spaced relation to the lateral edges of the sack; a sling; and means for mounting the ends of the sling slidably on the guides.

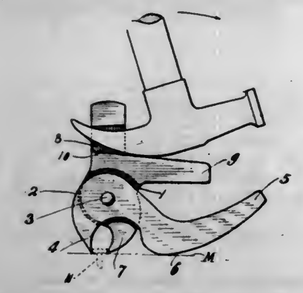
1,457,345. CAR TRUCK. GEORGE S. CHILES, Chicago, Ill., assignor of one-half to John W. Dalman, Chicago, Ill. Filed Jan. 8, 1923. Serial No. 611,387. 93 Claims. (Cl. 105—197.)

1. In a structure of the class described, a side-frame comprising an upper compression member, a lower tension member and columns, a spring assemblage supported on said tension member between said columns, said assemblage comprising two end springs, a central group of springs some of which are offset from the straight line



between the centers of said end springs, the part of said tension member on which said end springs rest being at a higher level than the intermediate part on which said central group rests.

1,457,346. NAIL PULLER. HARLON A. CLIFFORD, Greenfield, Mass., assignor to Emma D. Clifford, Greenfield, Mass. Filed June 7, 1920. Serial No. 387,006. 1 Claim. (Cl. 254—23.)

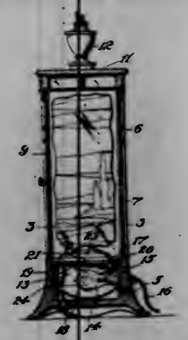


A nail puller including opposed body members which are pivotally united, one of the body members having opposed recesses formed therein, a relatively long arm extending from the body member and positioned so that one longitudinal face coincides with the inner end walls of the recesses, a gripping jaw extending from the body member, the opposed body member having a gripping jaw and a fulcrum foot, the fulcrum foot having its face which engages the material from which the nail is to be pulled formed to present a compound curve of such configuration that the curves of least radii are positioned adjacent the jaws and the curves of greatest radii being positioned away from said jaws, the point of initial contact between the fulcrum foot and the said material being located beneath the said arm.

1,457,347. TELEPHONE CABINET OR HOUSING. FRANK COLLINS, New York, N. Y. Filed Sept. 8, 1921. Serial No. 499,168. 3 Claims. (Cl. 240—2.)

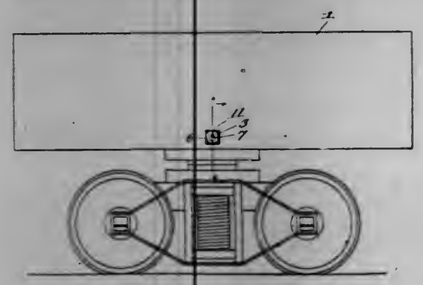
1. A cabinet for a telephone instrument or the like having a main telephone receiving compartment provided with translucent glass side panels and a second compartment at one end of said main compartment, said compartments being separated from each other by a glass plate, an electric lamp arranged in said second compartment, and a switch for closing the lamp circuit located in said second compartment and having a part projecting into the

main compartment, said switch adapted to be closed when the telephone is arranged in the main compartment where-



by the light rays from said lamp are projected through said glass plate to illuminate the interior of the main compartment.

1,457,348. CHECK LOCK. WILLIAM J. CONNELL, Huntington, W. Va. Filed Feb. 25, 1922. Serial No. 539,221. 1 Claim. (Cl. 40—15.)



In combination with a dump car, of means for locking a check key thereto, comprising a cylindrical casing received through one side of the car, an annular flange formed with the casing adjacent to its inner end, a face plate threadedly secured to its outer end, and having a notched opening registering with the bore of said casing but being of less area than that of said bore, a barrel received in the casing having an inner reduced end projecting through the inner end of the casing and being provided with a longitudinal slot designed to register with the notch when the barrel is in one position, a laterally extending head carried by the projecting end of the barrel, said casing being provided with a semi-circular groove which communicates with a longitudinal slot entering from the outer end thereof and said slot being aligned with the notch in the face plate whereby a key may be inserted through the notch, the longitudinal slot of the casing and the slot of the barrel respectively to turn the lateral extending head through the medium of the barrel to a position to be contacted by the load in the car, as and for the purpose specified.

1,457,349. PAPER-MAKING MACHINE. WILLIS S. CRANDELL, Elsmere, N. Y. Filed May 28, 1921. Serial No. 473,435. 14 Claims. (Cl. 92—43.)

1. In a cylinder paper machine, bottom and side confining walls providing a passage for the flow of a fibre bearing liquid, a cylinder mould having its lower portion immersed and rotating in said passage, a flat shelf disposed in a substantially horizontal plane in said passage on the upstream side of said cylinder mould, and dividing said passage and having its rear edge free, said shelf being adapted to extinguish currents or eddies in the fibre bearing liquid in its flow to said cylinder mould and means for supplying said liquid to said passage beneath said shelf.

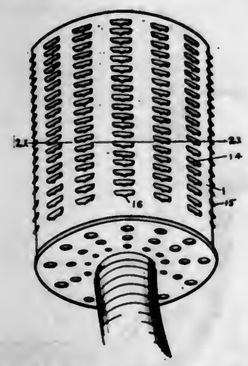


1,457,350. ORNAMENTAL AND SUPPORTING ARTICLE. FEDORA DAMIANO, Cambridge, Mass. Filed Nov. 8, 1921. Serial No. 513,741. 1 Claim. (Cl. 63—1.)



An article of jewelry, comprising a combined ornamental necklace, having a pendant, and a plurality of apparel clasps arranged in balanced position secured to the necklace and adapted to hold both the necklace and the pendant in predetermined position.

1,457,351. AIR FILTER. LEWIS L. DOLLINGER, Rochester, N. Y. Filed Jan. 9, 1922. Serial No. 528,086. 3 Claims. (Cl. 183—67.)

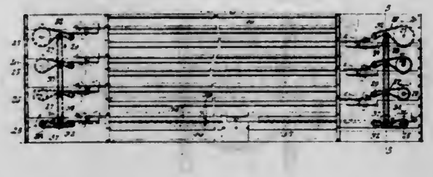


1. In an air filter, the combination of an outer cylinder having a series of openings therein, tongues overhanging each of the openings in said cylinder on the outside thereof, said tongues being struck up from the outer cylinder to form the openings therein and being inclined downwardly from the top of each of the openings, a filtering screen mounted within said cylinder and means whereby air is drawn from the outside of said outer cylinder through said filtering screen.

1,457,352. APPARATUS FOR CONVEYING AND SPACING ARTICLES. CHARLES H. DREHER, Buffalo, N. Y. Filed Jan. 16, 1922. Serial No. 529,502. 8 Claims. (Cl. 198—76.)

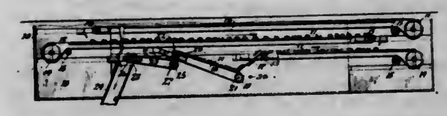
1. An apparatus of the character described, comprising an endless conveyer belt, pulleys around which opposite

turns of said belt passes, a driven sprocket wheel connected with one of said pulleys, an idle sprocket wheel, a driving sprocket wheel arranged between said driven and



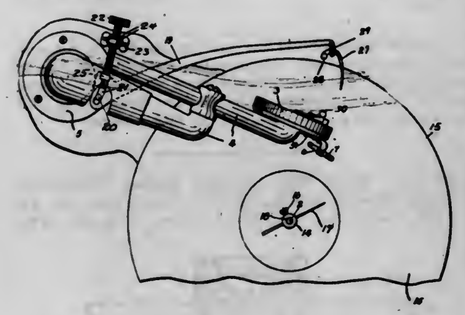
idle sprocket wheels, and a chain belt passing with opposite turns around said driven and idle sprocket wheels and engaging one of its stretches with said driving sprocket wheel.

1,457,353. APPARATUS FOR SPACING ARTICLES. CHARLES H. DREHER, Buffalo, N. Y. Filed July 25, 1922. Serial No. 577,437. 5 Claims. (Cl. 198—34.)



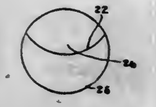
1. An apparatus of the character described, comprising a stationary incline which receives articles to be spaced irregularly from a source of supply, a gathering conveyer which receives the articles from said incline, and a spreading conveyer which receives said articles from said gathering conveyer, said spreading conveyer having a faster propelling effect than said gathering conveyer.

1,457,354. GRAMOPHONE REPEATING DEVICE. ALFRED EDWARD FISHER, Oshawa, Ontario, Canada. Filed July 18, 1922. Serial No. 575,702. 7 Claims. (Cl. 274—15.)



1. In a gramophone repeating device, the combination with the sound box and record, of a bracket secured to the sound box, an arm pivotally mounted on the bracket, a wheel journalled on the free end of the arm, the wheel engaging the record upon the arm being swung into the operative position and elevating the sound box with the consequent disengagement of the needle from the record, a shoulder on the bracket and a shoulder on the arm engaging each other upon the arm being swung into the operative position.

1,457,355. BIFOCAL EYEGLASS LENS. WILLIAM F. FISHER, Minneapolis, Minn. Original application filed May 12, 1920, Serial No. 380,729. Divided and this application filed Apr. 23, 1923. Serial No. 634,136. 1 Claim. (Cl. 88—164.)



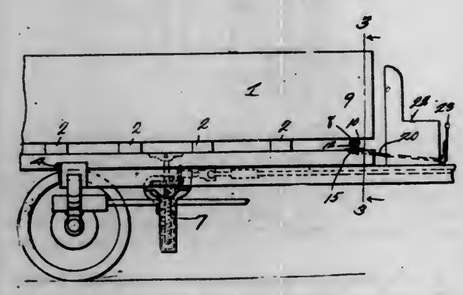
A one-piece bifocal minus eye-glass lens for myopic corrections having a lower reading portion and an upper distance portion separated from each other by a fine hair line, both of said portions having optical centers of their own located in the thinnest points of said portions, respectively, and on opposite sides of said line.

1,457,356. TENNIS AND OTHER RACKET PRESS AND CASE AND THE LIKE. ALEXANDER FORBES, Hampstead, London, England. Filed Jan. 24, 1922. Serial No. 531,412. 4 Claims. (Cl. 46—24.)



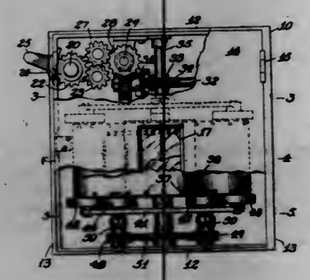
1. A racket press comprising a frame, provided with flange portions lying in a single plane and adapted to engage one face of the racket, and a perpendicular flange united thereto and curved to conform to the exterior edge of the racket frame, and retaining bars extending across the frame and provided with means for securing them adjacent to their ends to opposite portions of the said frame.

1,457,357. WAGON-DUMP-BODY LATCH. HOMER G. FRAZIER, La Fayette, Ind. Filed Aug. 10, 1922. Serial No. 580,890. 2 Claims. (Cl. 298—38.)



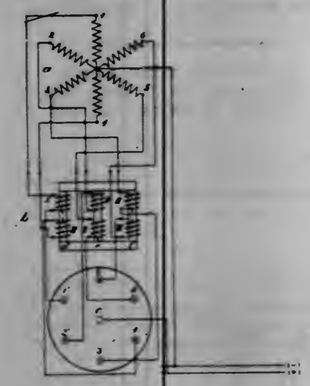
1. The combination with a pivoted dump body carried by a frame, of latching means carried by the opposite sides of the frame, said latching means comprising downwardly and outwardly extending pivoted dogs in the path of the side rails of the body, spring means for normally forcing said dogs outwardly, plates carried by the upper sides of the side rails of the body and adapted to be engaged by the pivoted dogs, said pivoted dogs and plates being provided with eccentric engaging surfaces.

1,457,358. AUTOMATICALLY-OPERATED ROAD MAP FOR MOTOR VEHICLES. RICHARDS C. FULTON, White Plains, N. Y. Filed Apr. 18, 1922. Serial No. 553,038. 17 Claims. (Cl. 40—42.)



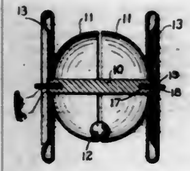
6. An automatically operated touring guide device for motor vehicles, comprising a suitable casing, means for detachably and movably mounting a tour designating element in said casing, said element being adapted to be passed over and moved by a drum and being visible through the casing, a shaft mounted in the casing and driven by a rotatable member of a vehicle, a lever rotatably mounted on said shaft and carrying a plurality of gears adapted to mesh with and be driven by a gear on said shaft, and means involving other gears mounted in the casing for driving said drum through the gears on said lever.

1,457,359. SYSTEM OF CONNECTIONS FOR MULTIPHASE CHOKING COILS. ARTHUR GAUDENZI, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Filed Aug. 29, 1921. Serial No. 496,560. 2 Claims. (Cl. 175—363.)



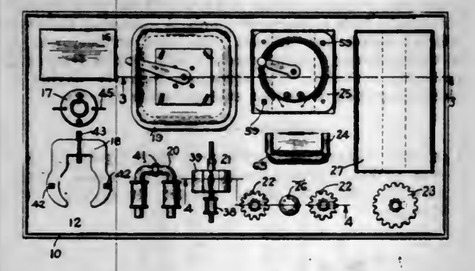
1. In a system of connections for multiphase choking coils having a common iron core provided with columns and the coils of at least two different phases on each column for the operation of rectifiers, the combination that the coils situated on a column produce therein either individually or in groups magnetic fluxes in opposed directions and the magnetic flux produced in this column by coils of the other columns immediately before and after its own magnetization has the same direction as but smaller ordinates than the flux produced by its own coils in such a manner that the time course of the magnetic flux in each column will be approximately in the form of a sine function.

1,457,360. FLOOR CHIME. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn. Filed Nov. 19, 1920. Serial No. 425,116. 2 Claims. (Cl. 46—47.)



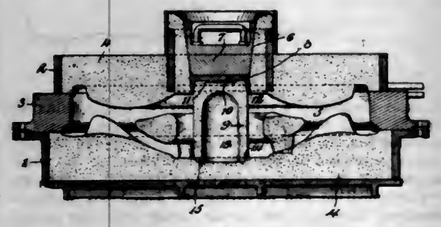
1. In a bell toy, a one-piece axle provided with reduced end portions each formed with an outwardly facing shoulder, bell sections having apertures by which they are fitted over said reduced end portions against said shoulders, wheels having apertures by which they are fitted over said reduced end portions outside of but against the respective bell sections, each extremity of said axle having a laterally spun portion presenting a flange clamping the corresponding wheel and bell section tightly against the shoulder so as to secure said parts tightly on the axle, a bail, and means for securing the bail to the axle ends.

1,457,361. CONTAINER FOR TOY SETS AND THE LIKE. ALFRED C. GILBERT, New Haven, Conn., assignor to the A. C. Gilbert Company, New Haven, Conn. Filed Jan. 17, 1921. Serial No. 437,808. 9 Claims. (Cl. 206—1.)



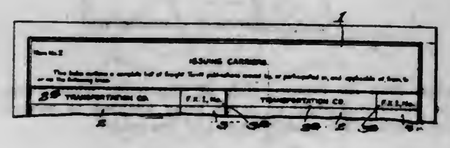
1. In a container for toy sets or the like, a supporting member provided with a pair of slots, the body of said member being cut therebetween to form a tongue, and an object, portions of which are received in said slots and held against removal by said tongue.

1,457,362. MOLD FOR MAKING METAL CASTINGS. JAMES EDWARD GOENS, Roanoke, Va. Filed Feb. 14, 1922. Serial No. 536,598. 7 Claims. (Cl. 22—128.)



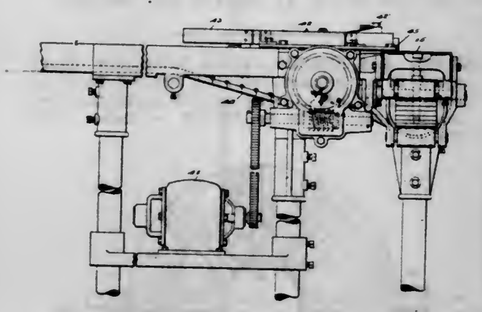
1. In a mold for casting annular objects, a hollow center core made of molding sand and shaped somewhat like a cup, said core having an annular shoulder and a tapering extremity on its lower and open end beyond the shoulder which open end is supported and closed by the sand in the drag, the tapering extremity entering therein, and having a dome-shaped closed upper end upon which the molten metal may be poured.

1,457,363. CONSOLIDATED TARIFF INDEX. CHARLES B. GUTHRIE, Washington, D. C. Filed Feb. 23, 1922. Serial No. 538,647. 3 Claims. (Cl. 283—32.)



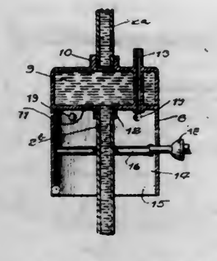
1. A consolidated index comprising groups of leaves bearing suitable printed matter arranged to form separate tariff sections which relate to various kinds of commodity tariffs, each of said tariff sections being provided with key symbols that are arranged to show the carriers that participate in certain tariffs as initial or originating carriers, and a separate section which is arranged to show tariffs applicable in the reverse direction where the carriers in a particular territory are delivering carriers, and key symbols to indicate initial, intermediate, or terminal carriers, and the cross reference in the tariff section of the index for showing the co-relation between the key symbols therein, and the symbols in the section that contains the description of the tariffs.

1,457,364. CONVEYER SYSTEM. GEORGE H. HALLOCK, GEORGE F. FREDERICK, and BENJAMIN H. PURCELL, Terre Haute, Ind., assignors to Automatic Machinery Company, Terre Haute, Ind., a Corporation of Indiana. Filed Sept. 15, 1919. Serial No. 323,964. 9 Claims. (Cl. 198—81.)



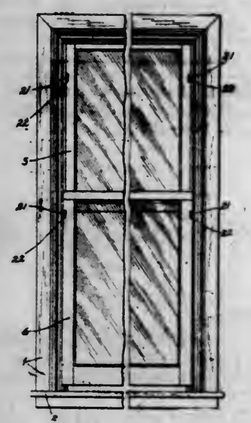
1. The combination with a main conveyer, of a feeding conveyer leading laterally to the main conveyer, a rotary transfer disk arranged in a corner between said conveyers for frictional reception of articles, means for rotating said disk, an obstructer arranged adjacent the disk in the line of travel of articles on the disk, means for normally restraining said obstructer in obstructing position, and means synchronized with the main conveyer for intermittently withdrawing the restraining means.

1,457,365. GAS WATER HEATER. JOHN G. HAUS, Weirton, W. Va. Filed Feb. 21, 1922. Serial No. 538,358. 2 Claims. (Cl. 126—350.)



1. A device of the character described, consisting of a cylindrically formed member having a water compartment in its upper end, and a heating chamber, a boiler and means whereby the water may have free circulation between said boiler and said chamber, a gas burner in said cylinder below said compartment, said means embracing water pipe one portion of which projects through said burner.

1,457,366. WINDOW CONSTRUCTION. ALBERT VICTOR HORNER, Toronto, Ontario, Canada. Filed Dec. 6, 1921. Serial No. 520,425. 6 Claims. (Cl. 20—149.)

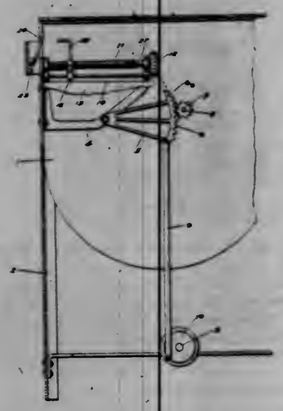


1. In window construction, the combination with a window frame having sashes movably mounted therein, and slides interposed between the sashes and the jambs of the frame, of means for detachably hinging the sashes to the slides and means constituting part of the hinging means for locking the sashes against opening more than a predetermined extent.

1,457,367. AUTOMATIC CONTROL DEVICE FOR WASHING MACHINES. HENRY W. HUBERS, Davenport, Iowa. Filed Oct. 23, 1920. Serial No. 419,068. 3 Claims. (Cl. 192—141.)

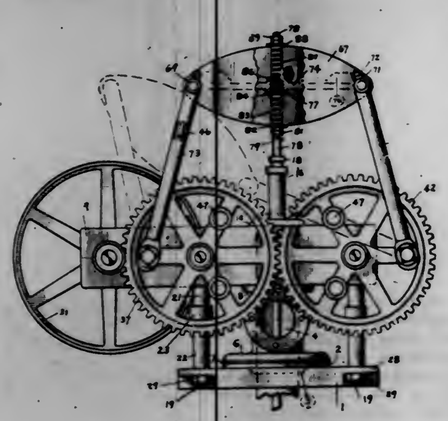
1. In a washing machine, in combination with the electrically controlled operating mechanism thereof, a threaded shaft rotatably mounted in proximity to said operating mechanism, and provided with a blank portion at one of its ends; a traveler releasably connected with said shaft, so as to be capable of being shifted from one point to another thereon, and adapted to be moved longitudinally thereof upon said shaft being suitably ro-

tated; a switch at the end of movement of said traveler, connected with the electrical devices controlling said operating mechanism, and adapted to be opened by said



traveler at the end of its movement; and means for communicating the movement of said operating mechanism to said shaft to impart an intermittent rotation thereto.

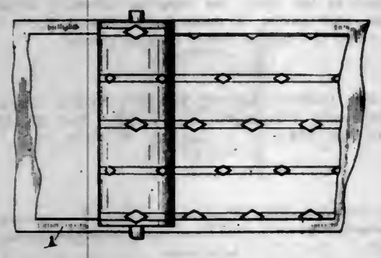
1,457,368. PUMP. SAMUEL E. HUNTTING, San Francisco, Calif. Filed Aug. 11, 1921. Serial No. 491,457. 9 Claims. (Cl. 103—205.)



1. In a pump mechanism, a cross head and a pump rod adapted to be reciprocated by four connecting rods, and four cranks adapted to drive said connecting rods.

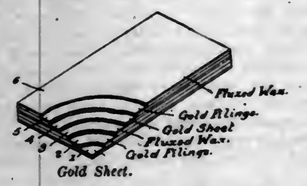
1,457,369. MANUFACTURE OF WALL PAPER. HERBERT C. JARVIS, Toronto, Ontario, Canada. Filed Jan. 30, 1922. Serial No. 532,737. 5 Claims. (Cl. 101—426.)

1. A process of printing a strip of wall paper which consists in superimposing the strip of wall paper on another strip of paper and printing said strip of wall paper with a printing roller having its printing surface



wider than the exposed strip of wall paper when hung, the underlying strip of paper being adapted to receive the imprint of a projecting end of the roller.

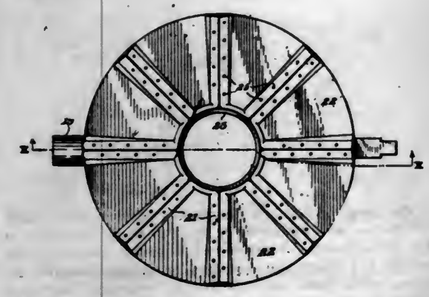
1,457,370. MOLDING SUBSTANCE FOR DENTAL AND OTHER USES AND PROCESS FOR MAKING SAME. RICHARD H. JEFFERIES, Richmond, Va. Filed Apr. 21, 1921. Serial No. 463,332. 8 Claims. (Cl. 148—32.)



1. A substance of the class described comprising a metallic base, and a layer carried by said base and consisting of a mixture of fluxed wax and solder.

5. The herein described process of forming a molding material or substance, consisting in placing upon a metal base plate, layers of flux, wax and small particles of a metal of a lower melting point than the metal of said base plate, and then raising the temperature of the whole mass sufficient to melt the wax and cause it and the flux and said particles to adhere to said base plate.

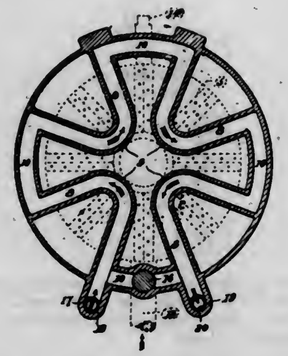
1,457,371. GAS BURNER. JAMES E. KENNEDY, Washington, D. C. Original application filed Oct. 20, 1921, Serial No. 511,283. Divided and this application filed Apr. 29, 1922. Serial No. 557,256. 4 Claims. (Cl. 158—99.)



4. A gas burner including a cast upper section having radial burner members connected by outwardly inclined webs and provided with inner and outer walls, the inner wall defining a central opening in the upper section, and

a sheet metal disk having a central opening with its inner and outer margins flanged over the inner and outer walls of said upper section into gas-tight contact therewith.

1,457,372. WATER-HEATING GRID. JAMES E. KENNEDY, Washington, D. C. Filed Apr. 29, 1922. Serial No. 557,257. 7 Claims. (Cl. 126—53.)



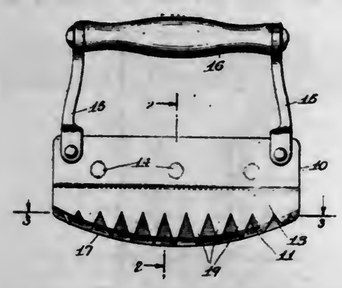
1. A water heating grid for gas stoves and the like embodying a grid plate with a central opening and inwardly projecting heat radiating fins extending inwardly of said opening, tubular connections provided alternately between the inner and outer ends of the fins forming a continuous circulatory tortuous passage for water, means providing a partition between two adjacent fins, and means to respectively connect said two fins internally with water supply and delivery pipes.

1,457,373. FISHHOOK. FRITZ KESSEL, New York, N. Y. Filed Oct. 26, 1921. Serial No. 510,543. 1 Claim. (Cl. 43—38.)



The combination with a fish hook, having a shank and a barb, a pair of spring arms attached to the upper portion of the shank and disposed in a plane which intersects the shank at an acute angle and passes a substantial distance over the barb of the hook, said arms diverging from the shank and extending a substantial distance beyond said barb, said arms each comprising a length of relative thin spring wire bent back at its middle portion upon itself and being twisted from end to end of the arm for imparting the required thickness and rigidity to the arm and the twists being sufficiently close to permit the required flexing of the arm from end to end when subjected to impact and pressure.

1,457,374. CHOPPER. ALBERT LAZARUS, New York, N. Y. Filed Dec. 26, 1922. Serial No. 608,848. 7 Claims. (Cl. 146—210.)

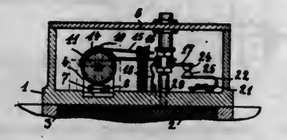


1. A chopper of the class described comprising a chopper body composed of a central blade member having a continuous cutting edge and other blade members mounted at the opposite sides of the central blade member and spaced therefrom, said last named blade members being provided with a plurality of spaced chopper blades.

1,457,375. MOLD MIXTURE. VICTOR LOUGHEED, San Francisco, Calif., assignor to Enterprise Foundry Company, San Francisco, Calif., a Corporation of California. Filed Aug. 18, 1919. Serial No. 318,209. 3 Claims. (Cl. 22—188.)

1. A porous mold for casting metal, said mold being composed mainly of a refractory porous substance and containing calcium sulphate limited in quantity to that sufficient for binding together the said substance without destroying its porosity, and a basic substance capable of combining with the trioxide element of the binder and limited in quantity to that sufficient to render said element non-reactive with respect to the metal to be cast.

1,457,376. THERMOSTATIC CIRCUIT CLOSER. ADOLF LUDI, Grenchen, Switzerland. Filed June 14, 1921. Serial No. 484,791. 3 Claims. (Cl. 200—139.)

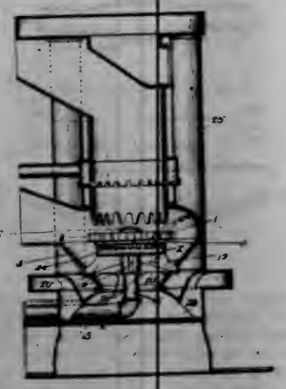


1. A thermostatic circuit closer comprising a stationary contact, a slotted gudgeon, a contact arm of a switch sleeved with a slotted end on said gudgeon a pusher for moving the contact arm to contacting position, a spring resting against said arm biasing it to open position, a bar compounded of two parallel metal strips of different coefficient of expansion passing close to said slotted sleeve and kept fast at one end so as to bend, when getting heated, a stud fixed to the free end of said bar, traversing the slotted gudgeon and the slotted sleeve and projecting beyond the sleeve, and a flat spring fast to said arm resting with a sharp edge against the projecting end of the stud, but left free at the withdrawal of the same by the bending bar, and adapted to slip over the replaced stud when the arm is brought back again by said pusher into its contacting position.

1,457,377. GRATE. GEORGE A. MACKENZIE, Bay City, Mich. Filed Apr. 28, 1919. Serial No. 293,349. 4 Claims. (Cl. 126—170.)

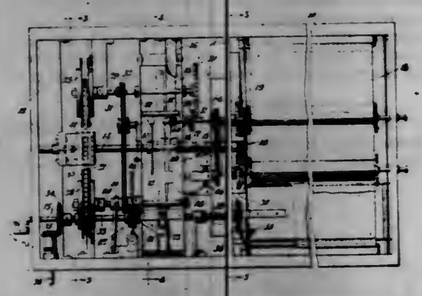
1. In a furnace, a grate body having spaced depending flanges, a support for said grate body having hollow

arms and a hollow ring mounted on the outer ends of the arms and communicating therewith, said ring having an upstanding flange adapted to fit against one of the flanges of said grate body and the flange of the ring



having openings therethrough, a cover for closing the upper sides of said arms and having a flange arranged to engage the other flange of the grate body and having openings therethrough, and means for placing the hollow arms in communication with a source of heated air.

1,457,378. STATION INDICATOR. STEVE MAJKA and PETER BOROWSKY, Dover, N. H. Filed Apr. 6, 1922. Serial No. 550,054. 1 Claim. (Cl. 40—42.)



A station indicator comprising a compartmented casing, a pair of winding rolls, a web wound thereon, means for distending said web, all of said elements being in one compartment, a drive shaft actuated by the wheels of the vehicle carrying the indicator, means for disengaging the connections therebetween, means for manually rotating said shaft when disconnected, a second shaft positively driven from the first shaft, an intermediate shaft, a toothed collar fixed thereon, a perforate band, drums fixed on the first and second shafts on which said band is wound, said band engaging the toothed collar to rotate the intermediate shaft, and a gear train driven by said intermediate shaft, communicating rotary motion to said winding rolls.

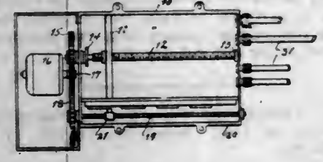
1,457,379. CAN LIFTER. PERRY D. MABEAU, Binghamton, N. Y. Filed Mar. 3, 1920. Serial No. 362,923. 1 Claim. (Cl. 294—100.)

A jar lifter comprising a pair of jaw members formed from a single piece of wire bent upon itself intermediate its ends to form a spring bow member provided at its apex with an eye and bent below the apex to form shoulders to be engaged by the fingers, said jaw members being formed by looping the wire at its ends and bending the same into arcuate shape to conform to the neck of a jar with the sides of the wire forming the loops of the



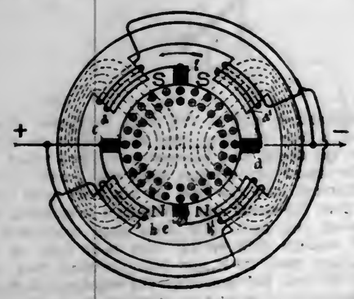
jaw members disposed in the same horizontal plane and a rod extending through the eye in the spring bow and provided with a sliding member for expanding and contacting the jaw members.

1,457,380. MEANS FOR DISTRIBUTING LUBRICATING GREASE. WILLIAM METZGER, New York, N. Y. Filed Feb. 23, 1922. Serial No. 538,511. 3 Claims. (Cl. 184—7.)



1. Means for distributing lubricating grease comprising a container, a piston operable therein, a motor mounted upon said container for operating said piston and a movable contact member upon said container for controlling the operation of said motor, the said contact member being operated by the piston operating means.

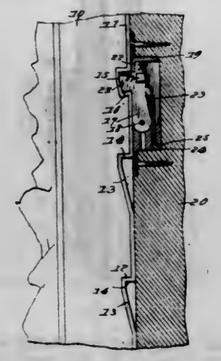
1,457,381. DYNAMO-ELECTRIC MACHINE. ALBERT HENRY MIDGLEY, Uxbridge, England. Filed Apr. 3, 1922. Serial No. 549,326. 2 Claims. (Cl. 171—223.)



1. A dynamo electric machine having one of its field poles sub-divided circumferentially, means for exciting the

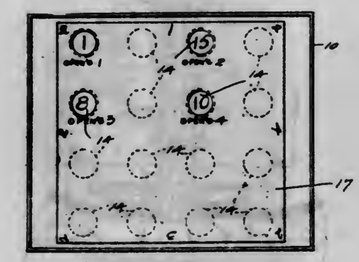
leading part of said pole from an approximately constant voltage, and the trailing part of the pole being excited from the armature conductors lying under the pole face of the leading part.

1,457,382. SASH LOCK AND HOLDER. MOSES A. MILLER, St. Albans, Vt. Filed Dec. 3, 1921. Serial No. 519,750. 3 Claims. (Cl. 292—127.)



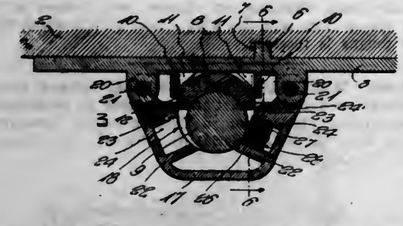
1. In a sash lock and holder, a sash having a face plate with recesses formed therein with shoulders at the upper ends of the recesses and a recess having an inclined shoulder at its lower end, a dog pivotally mounted in a window casing and having a nose projecting therefrom adapted to enter the recesses of the face plate, the said dog having a lower edge adapted to engage the inclined shoulder of one of the recesses and a straight upper edge adapted to engage the shoulders of the other recesses, means for urging the nose of the dog into operative relation with the said shoulders, a laterally extending arm carried by the dog, and manually operated means engaging the arm for pushing the dog against the action of the said urging means.

1,457,383. PUZZLE. WILLIAM H. MILLER, Hillsboro, Ill. Filed Aug. 18, 1920. Serial No. 404,401. 32 Claims. (Cl. 46—41.)



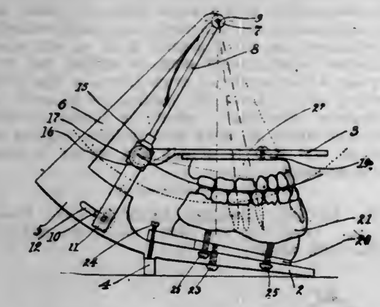
1. A puzzle comprising a set of numbers to be arranged in a pattern, and a second fixed pattern adapted for superposition thereon and individually defining certain number locations such that an arithmetical operation performed upon the numbers common to both patterns will yield a constant result irrespective of the relative positions of said patterns.

1,457,384. BEARING BOX FOR MINE CARS. WILLIAM R. MILLER, Park Place, Pa. Filed Sept. 15, 1921. Serial No. 501,009. 2 Claims. (Cl. 64—10.)



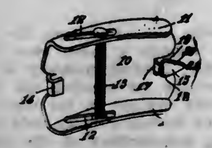
1. An axle mounting comprising a support, a housing having its end portions pivotally and removably connected with said support whereby either end of said housing may be released and swung downwardly to an inoperative position, said housing having end walls recessed to receive an axle and uppper and lower partitions in the side portions of said housing forming brush-receiving pockets extending longitudinally in the side portions of the housing and intermediate the height thereof and between the end walls thereof.

1,457,385. DENTAL ARTICULATOR. GEORGE S. MONSON, St. Paul, Minn. Filed Nov. 26, 1918. Serial No. 264,192. 15 Claims. (Cl. 32—1.)



8. A dental articulator comprising a jaw model carrier, an oblique pivot arm carried by said carrier, the axis of said pivot arm coinciding with the radius of a sphere the centre of which is above and approximately equidistant from the condyle centres and from the occlusal surfaces of all the teeth in a normal human jaw, said pivot arm being guided to move angularly about said centre in a vertical plane in the medial line of occlusion of said teeth, a co-operating jaw model carrier carried by said pivot arm and hinged thereto to afford relative movement of one of said jaw model carriers toward and away from the other, as in simple occlusion.

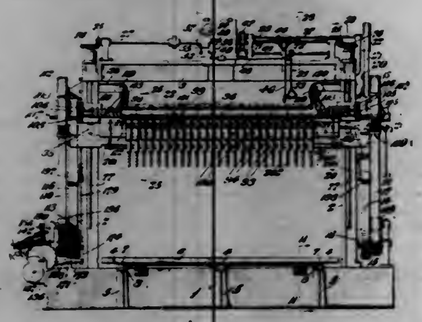
1,457,386. BELT BUCKLE. WILLIAM M. MYERS, Hannibal, Mo. Filed Mar. 13, 1922. Serial No. 543,312. 3 Claims. (Cl. 24—194.)



1. A belt buckle comprising a body of plate-like form provided at its edges with flanges formed with inclined

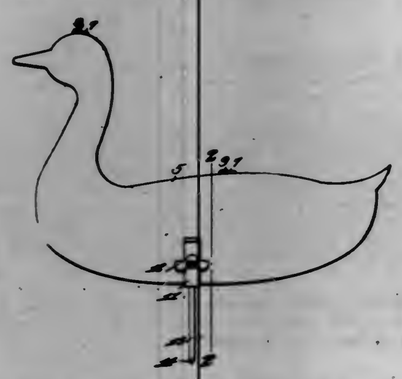
slots, a lock-bar slidable along said slots, tongues formed on the ends of the body and bent backwardly with respect thereto and lying substantially parallel therewith, and a strap disposed against the rear side of the body with one end abuttingly engaging one tongue and formed at a point spaced from said end with a hole within which the other tongue is received.

1,457,387. MULTIPLE-SPINDLE DRILL. FRANK EGON NEITZEL, San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, a Corporation of Delaware. Filed Mar. 12, 1921. Serial No. 451,737. 16 Claims. (Cl. 77—22.)



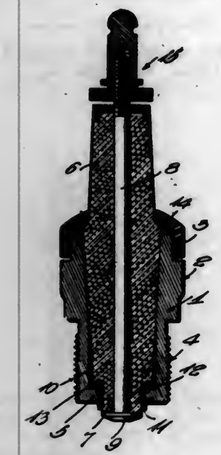
1. The combination with a work table, of a shaft operatively connected with it to feed it, a clutch comprising a continuously revolving member loose on said shaft and a member keyed to said shaft, a shifting rod connected to said keyed member, a drum driven by said shaft and having a stop to move said shifting rod to open the clutch members, a spring to effect the closing of said members, and means to move said shifting rod out of the path of said stop to permit said spring to close said clutch members.

1,457,388. DECOY. EARNEST NEWMAN, Lake Providence, La. Filed Aug. 31, 1922. Serial No. 585,506. 1 Claim. (Cl. 43—3.)



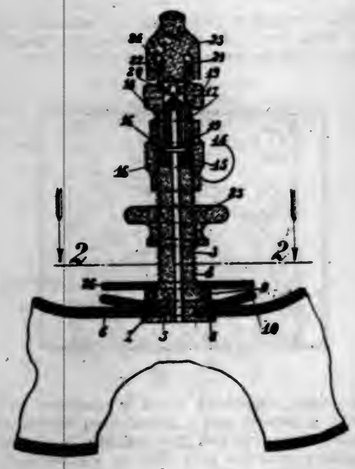
A decoy comprising opposed sections, the sections being constructed to simulate a goose, when the sections are brought together, latching members at the upper portion of the sections for securing the sections together, bolts disposed adjacent to the lower portion of the sections, a band having openings, said band adapted to engage the undersurfaces of the sections, the openings adapted to receive the bolts to secure the sections together, and a rod having connection with the band to provide a support for the decoy.

1,457,389. SPARK PLUG. LE ROY L. PETTY, Phoenix, Ariz., and PAUL E. KELLER, Marion, Ohio. Filed May 16, 1921. Serial No. 470,043. 1 Claim. (Cl. 123—169.)



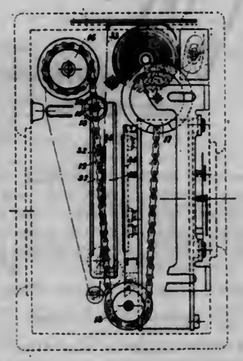
A spark plug comprising a metallic shell having an inturned annular flange at its lower end forming a shoulder, a metal bushing aranged inside of the shell and tightly contacting the inner wall thereof and provided intermediate its ends with a shoulder resting on the first named shoulder and having a reduced neck extending through the lower end of the shell beyond said flange, a body of insulating material fitted snugly inside of the shell and having its lower end reduce in diameter and extending through and beyond the aforesaid neck, and an electrode embedded in said body and having a head on its lower end bearing against and of the same diameter as the reduced end of the body.

1,457,390. VALVE FOR PNEUMATIC TIRES. HECTOR PLASSCHAERT, Wachtebeke-Lez-Gand, Belgium. Filed Aug. 18, 1920. Serial No. 404,382. 3 Claims. (Cl. 152—12.)



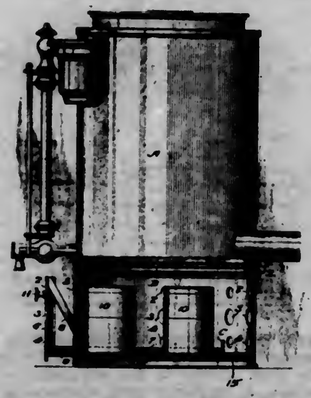
1. A valve tube having means to attach the same to a tire, a coupling sleve screwed to the valve tube, a valve casing screwed to the coupling sleeve, and having a valve seat, a plunger mounted in the valve casing, having guides and also having a pointed end to close against the valve seat, and a cap screwed to the valve casing and arranged to close hermetically against the outer side of the valve seat.

1,457,391. PRINTING MECHANISM FOR REGISTERING MACHINES. HECTOR PLASSCHAERT, Wachtebeke-Lez-Gand, Belgium. Filed June 1, 1921. Serial No. 474,255. 4 Claims. (Cl. 234—36.)



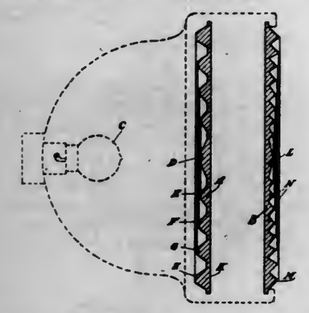
1. Printing mechanism of the class described, comprising a drum, spring rotated in one direction, a counter drum, flexible elements connecting said drums, a roller carried by said flexible elements and movable therewith back and forth between the drums, a runway for the roller arranged at an angle to said flexible elements to cause said roller to move on one side thereof as said roller travels from the drum to the counter drum and to move on the opposite side thereof as said roller travels in the reverse direction, and a printing element, opposite the last named side of the runway and against which said roller imparts a printing impression as said roller travels from the counter drum to the drum.

1,457,392. COFFEE URN. ISAAC C. POPPER, New York, N. Y., assignor to The Theroz Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1920. Serial No. 427,292. 1 Claim. (Cl. 53—3.)



A coffee urn made in two interfitting sections forming continuations of each other, one an urn proper, and the other a combustion-chamber, the bottom or combustion chamber having an opening at the side, and a drawer fitted to slide in and out through said opening and constructed and arranged to receive, hold and properly place cans of fuel beneath the urn when the drawer is slid in place.

1,457,393. DUPLEX LENS. ARTHUR WILLIAM POUGHER, Manchester, England. Filed June 1, 1922. Serial No. 565,225. 3 Claims. (Cl. 240—48.4.)



1. Means for preventing dazzle in lamps in which a pair of lenses are employed, such lenses having prisms formed thereon, characterised in that the lenses are spaced apart and the prisms formed thereon comprise a plurality of concentric prisms the two innermost and opposite prisms being so shaped that rays of light passing therethrough from the source of light do not intersect and are emitted divergently from the prisms furthest from the source of light, whilst the remaining prisms are so shaped that the rays of light emanating from the source of light are directed from such latter prisms in such directions that they intersect and are diffused, whereby the light emitted from the lamp comprises two concentric beams of light, the inner being stronger than the outer for the purpose specified.

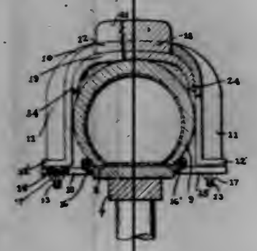
1,457,394. UNDERGARMENT. CELIA REICH, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,432. 1 Claim. (Cl. 2—144.)



A one-piece garment comprising a pair of bloomers and a camisole, the rear portion of the bloomers being separated from the adjacent portion of the camisole and bifurcated along the hip lines vertically to provide a

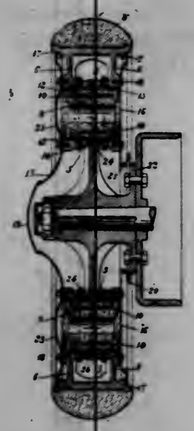
flap, the upper edge of the flap carrying a body-encircling elastic band while the lower rear marginal edge of the camisole is provided with an elastic band extending from one bifurcation to the opposite bifurcation, the portion of the marginal edge which extends forwardly being inelastic.

1,457,395. TRACTION DEVICE. JOSEPH H. REISLER, Milwaukee, Wis. Filed July 28, 1922. Serial No. 578,201. 2 Claims. (Cl. 156—14.)



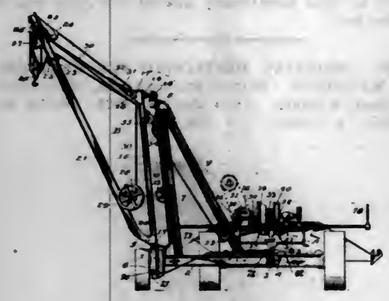
1. A traction device for vehicles, comprising a U-shaped yoke member having a widened mid-portion and an opening therein, a lobed tread member mounted in said yoke member with its lobe portion projecting outwardly through the opening, and clamping means for securing said yoke member to a vehicle rim and for drawing said tread member into firm engagement with the yoke member and vehicle tire.

1,457,396. ELASTIC WHEEL. CHARLES REUSS, Brussels, Belgium. Filed Mar. 2, 1920. Serial No. 362,855. 2 Claims. (Cl. 152—28.)



1. In a wheel, a felloe having members provided with openings, a hub having members provided with openings arranged between those of the felloe members, so that said felloe and hub members are arranged for relative eccentric movement, elastic blocks in said openings, connecting said felloe members and hub members together, and means coacting with said felloe members to form lubricant containing chambers in which said openings and said elastic blocks are arranged.

1,457,397. DERRICK. SAMUEL SHAFER, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 13, 1921. Serial No. 436,973. 28 Claims. (Cl. 212—58.)



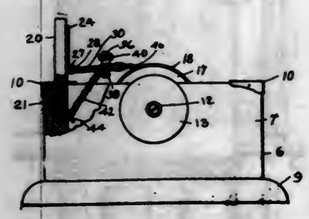
1. In a portable derrick, a portable main truck, an auxiliary truck associated therewith, means connecting the auxiliary truck with the main truck so that it will travel therewith and arranged to permit the auxiliary truck to be moved bodily over the ground relative to the main truck, without disconnecting it therefrom, and a derrick supported upon the auxiliary truck.

1,457,398. BRUSH-MAKING MACHINE. ARTHUR EFRAIM SILANDER, Berlin, Germany. Filed July 25, 1921. Serial No. 487,481. 1 Claim. (Cl. 300—10.)



A reciprocating table for brush and like making machines, comprising a frame, slidable runners connected to said frame, runways supporting the frame by means of the runners, vertically guided slides holding the runways, supporting brackets, screw spindles guided in said brackets and connected to said slides, nuts arranged on said spindles so as to support the slides on the brackets, and means for operating said nuts in unison so as to vary the altitude of the frame relative to the brackets while maintaining it parallel to its original plane.

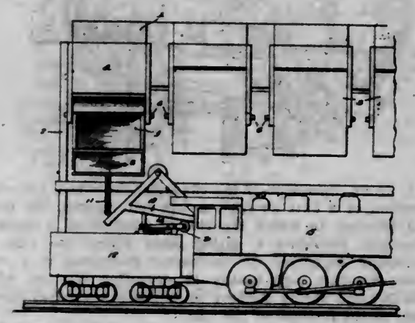
1,457,399. RAZOR-BLADE SHARPENER. BENEDETTO P. SIMONE, Providence, R. I. Filed June 16, 1922. Serial No. 568,721. 1 Claim. (Cl. 51—98.)



In a razor blade sharpener, a box, a driving shaft rotatably mounted in the box transversely thereof, a roll fast to the shaft within the box and projecting slightly above the box, a peripheral band of stropping material upon the roll, an upright upon one end of the box, an attaching plate fixed to the upright, hinge sleeves upon

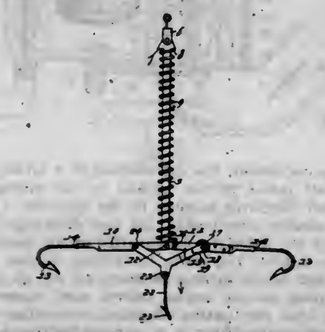
the attaching plate, a pintle in the sleeves, clamping plates, a resilient loop integral with the clamping plates and embracing the pintle between the sleeves, a clamping member engaging an intermediate portion of the plates, and a spring supported by an intermediate portion of the plates and fast to the box below the pintle.

1,457,400. COALING DEVICE. ERWIN F. SIPTROTH, Easton, Pa. Filed Apr. 12, 1921. Serial No. 460,854. 4 Claims. (Cl. 214—42.)



1. An apparatus of the class described comprising a framework located adjacent a track, a hopper supported by the framework, a chute depending from the hopper, a rotatable drum mounted at the end of the chute and having an opening therein, weighted means for normally positioning the drum with the said opening in register with the chute, a deflecting plate connected with the drum adjacent the openings, a tripping lever, means for connecting the lever with the plate and a tripping device for engaging said lever to cause the same to rotate the drum into discharging position.

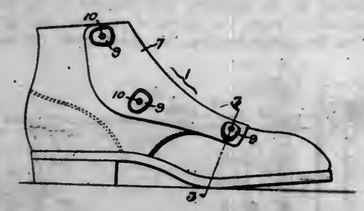
1,457,401. FISHING DEVICE. HENRY SMITH, Turnersville, Tex. Filed Nov. 27, 1922. Serial No. 603,573. 2 Claims. (Cl. 43—5.)



2. In a fishing device, a rod, a spring encircling the rod, means for holding the spring under tension, arms pivotally connected to the rod, hooks carried by the said arms, means on one arm adapted to engage the other arm for limiting the movement of the arms toward each other, a trigger pivotally connected to one arm, a seat on the other arm engaged by the trigger, and a hook connected to the said trigger.

1,457,402. SAFETY SHOE. JOHN F. SMITH, Taunton, Mass. Filed Sept. 18, 1922. Serial No. 588,812. 6 Claims. (Cl. 36—50.)

6. A protective shoe having an upper provided with a substantially central opening at the front thereof extending from the top of said upper to a point beyond the ball line of the shoe, a flap fixed upon the upper at one side thereof and having a series of fasteners adjacent its



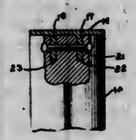
free edge and cooperating means upon the opposite side of the upper thereby to secure said flap in closed position across said opening.

1,457,403. AUXILIARY AIR-INLET DEVICE FOR INTERNAL-COMBUSTION ENGINES. CORNELIUS N. SNAGG, Waterbury, Conn., assignor to The Simonsville Mannfacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 23, 1922. Serial No. 596,498. 4 Claims. (Cl. 48—180.)



2. A device of the character described comprising a body portion fitting between the carbureter and the intake manifold and having a bore formed therethrough which alines with the bore of the carbureter and the intake manifold and having an extension which terminates substantially centrally of said bore, said extension carrying a spaced concavo convex baffle plate there being a port formed through said extension and there being ports communicating with the first named port and discharging at that face of the extension and longitudinally toward the concave side of said baffle plate and valvular means for controlling the passage of air to the first named port.

1,457,404. BLADE SHROUDING. JOHN EDWIN SNYDER, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 9, 1920. Serial No. 394,992. 4 Claims. (Cl. 253—77.)

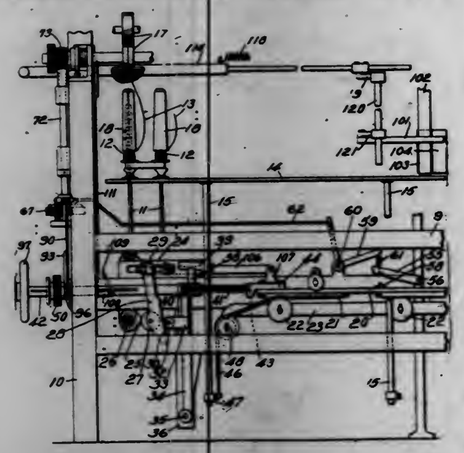


1. The combination of a turbine blade having a slot of uniform cross section in the tip thereof, a shroud member engaging the end of the blade having a tongue of uniform cross section which projects into the slot, and means for securing the tongue within the slot.

1,457,405. SPINNING FRAME. MOSES SPENCER, Saylesville, R. I., assignor, by mesne assignments, to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1917. Serial No. 202,098. 9 Claims. (Cl. 242—43.7.)

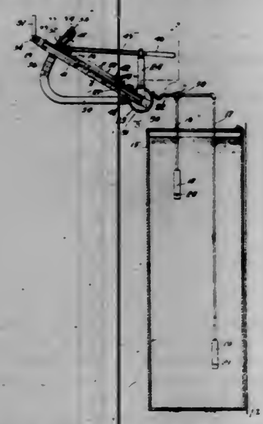
1. A spinning frame having, in combination, spinning devices including a reciprocating carriage, and a bunch-building device comprising a cam, a rotating shaft, con-

nections between the two whereby the former may be turned into inoperative position by the latter, means for turning the cam into operative position, means under the control of the operator and adapted to be brought into operation when the operator restarts the spinning operation for disconnecting the shaft from the cam to



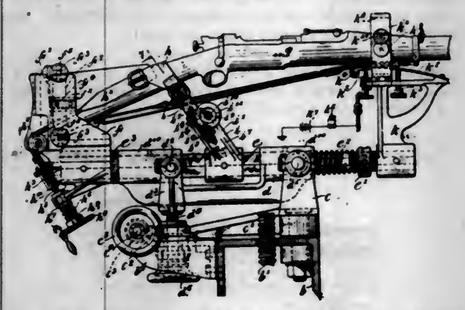
permit the latter to be turned into its operative position, connections between the cam and the reciprocating carriage for limiting the movement of the carriage for a predetermined length of time to produce a relatively short traverse, and means for reconnecting a shaft with the cam to permit the carriage to resume its reciprocations.

1,457,406. DEPTH AND SPECIFIC-GRAVITY MEASURING APPARATUS. CECIL W. STANCLIFFE, New York, N. Y., assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed June 19, 1919. Serial No. 304,871. Renewed May 16, 1921. Serial No. 470,202. 27 Claims. (Cl. 73—54.)



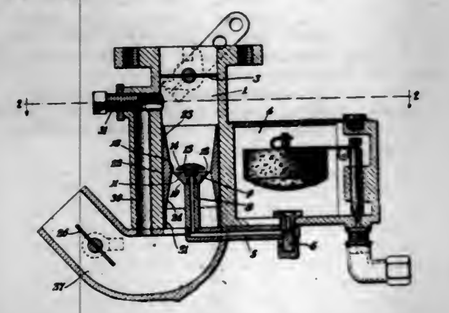
1. A means for determining depths and specific gravities of liquids, comprising pipe lines adapted to be submerged in the liquid and having discharge orifices at a known vertical height apart, a liquid column indicator having a chamber in communication with said pipe lines, and means for creating pneumatic pressures in said pipe lines and chamber sufficient to balance the heads of liquid above the respective outlets.

1,457,407. RIFLE DEMONSTRATOR. JAMES G. PHELPS STOKES, New York, N. Y. Filed Aug. 1, 1921. Serial No. 488,757. 34 Claims. (Cl. 42—94.)



1. In an apparatus of the character described, the combination of a butt support, a fore-end support, the fore-end support, in which the rifle is movable in a vertical direction, including a spring upon which the rifle is yieldingly supported for movement downward in a vertical direction, and means in operative relation with the fore-end spring support to indicate a vertical movement of the fore-end of the rifle.

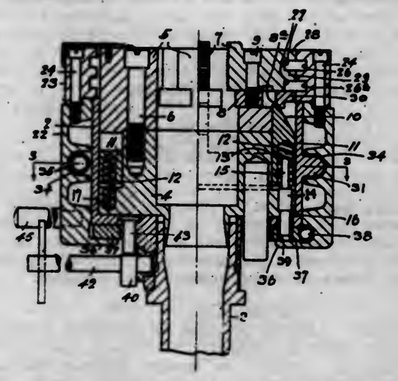
1,457,408. CARBURETOR. FREDERICK R. SUNDERMAN, Detroit, Mich., assignor to Sunderman Products, Inc., Newburgh, N. Y., a Corporation of New York. Filed Apr. 17, 1919. Serial No. 290,657. 5 Claims. (Cl. 261—53.)



1. In a carburetor, the combination of a mixing chamber, an air intake portion leading to the mixing chamber, a fuel discharge member in the chamber, a sliding venturi member surrounding the fuel discharge member to control the velocity and quantity of air passing the discharge member responsive to varying degrees of suction applied to the mixing chamber, an air by pass extending from the air intake, around said venturi member and into the mixing chamber above the venturi member when the latter is in normal position so as to be variably obstructed by the upward movement of the venturi member responsive to certain increase of suction applied to the mixing chamber, and a choke valve controlling the flow of air to said by-pass.

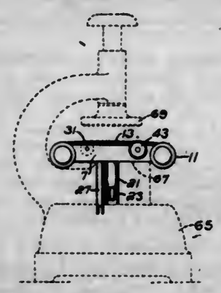
3. In a carburetor, the combination of a mixing chamber, a fuel discharge member therein, a sliding venturi member surrounding the fuel discharge member to control the velocity and quantity of air passing the discharge member responsive to varying degrees of suction applied to the mixing chamber, a throttle valve in the outlet of the mixing chamber and an air passage leading into the mixing chamber above the upper edge of the venturi when the latter is in normal position and below the throttle valve, and adjustment means for regulating the amount of air flowing through the by-pass.

1,457,409. THREADING TOOL. ALBERT R. THOKE, Pittsburgh, and HUBERT G. SMITH, Wilkinsburg, Pa. Filed Mar. 7, 1922. Serial No. 541,652. 6 Claims. (Cl. 10—96.)



1. In a threading-tool, the combination of a suitable casing, a cam-ring having rotary relation with said casing, a spring actuated slidable head in said casing, die-blocks connected to said head, dies movable in and out in said die-blocks, notches formed in said dies forming lugs adapted to engage grooves formed in said cam-ring and the front face of said ring when said dies are advanced beyond the face of said cam-ring, means for retracting said dies, and means for automatically turning said cam-ring when said dies are advanced.

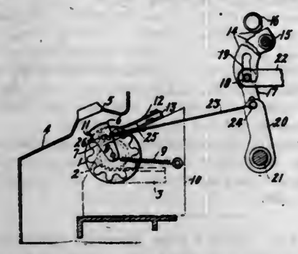
1,457,410. TIME STAMP. WILLIAM H. THOMPSON, New York, N. Y. Filed Oct. 25, 1921. Serial No. 510,231. 6 Claims. (Cl. 234—55.)



1. A self-contained printing member for time stamps comprising a frame having means for supporting an inking ribbon with a portion extending over the face of the frame, date printing wheels carried by the frame, hour printing dies carried by the frame and having operating shafts, means for securing said member to a clock casing, said member presenting an even surface to mate with the casing from which surface project solely the shafts for operating the hour printing dies.

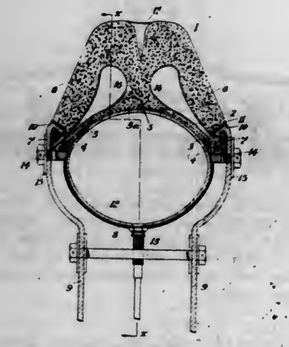
1,457,411. COMPUTING MACHINE. RICE BARR VANCE, Detroit, Mich., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 11, 1921. Serial No. 436,414. 9 Claims. (Cl. 235—60.)

2. In a computing machine to be used for checking previous computations, in combination, a series of number-elements, means to indicate on said number-elements a row of digits from which the result of a computation may be read, a shutter, a non-compute key, means whereby said shutter will be held in position to mask said row



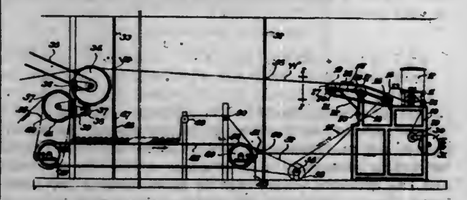
when said non-compute key is in normal position, and means whereby actuation of said non-compute key will cause said shutter to be withdrawn from its masking position.

1,457,412. PNEUMATIC TIRE FOR VEHICLES. LEWIS GARFIELD WILLIAMS, Corsyrhelig, Godrergraig, Wales. Filed Dec. 11, 1922. Serial No. 606,250. 3 Claims. (Cl. 152—10.)



2. A tire for vehicle wheels comprising a tread portion having side extensions that are adapted to be secured to a wheel and that are deflectable towards one another transversely of the tire, and an annular groove formed centrally in said tread portion to assist deflection of said side portions under the influence of load imposed upon the tire, said groove being filled with soft, pliable material forming a part of said tread portion.

1,457,413. MACHINE FOR TREATING OR PROCESSING FABRICS AND OTHER GOODS. JOHN A. WILSON, Elizabeth, N. J., assignor to Duratex Corporation, Newark, N. J., a Corporation of New Jersey. Filed Mar. 9, 1920. Serial No. 364,572. 18 Claims. (Cl. 91—55.)



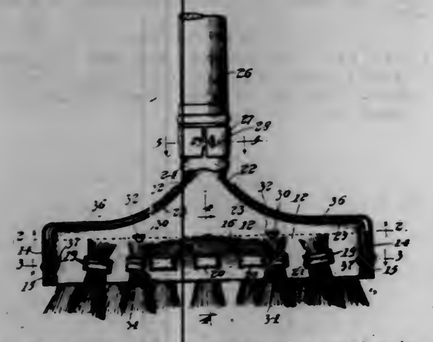
3. In a machine of the class described the combination of a coating means, a drying means, and means for

carrying a fabric to be coated continuously past said coating means and drying means, including a driven drag belt adjacent to said coating means, and means to vary the tension of said drag belt.

10. A machine of the class described comprising the combination of coating means, a driven drag belt adjacent to and in the rear of said coating means, a drying chamber, and means for carrying the fabric to be coated through said chamber and returning it to the coating means, including a creeping conveyor on which excess fabric is loosely carried without tension.

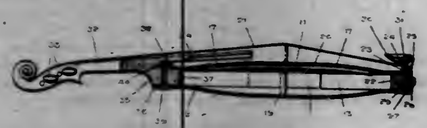
14. A machine of the class described comprising the combination of fabric treating means, a drier and a driven drag belt acting on the fabric adjacent said fabric treating means.

1,457,414. HEAD FOR BROOMS AND BRUSHES. VICTOR ADAMS, Chicago, Ill. Filed Aug. 19, 1916. Serial No. 115,767. 7 Claims. (Cl. 15—171.)



1. In a brush, the combination of a metal strip, a number of spaced bunches of bristles secured thereto and arranged in a straight row, a separate binding slip surrounding each bunch and secured to said strip said clips having their ends overlapping and having their adjacent edges parallel.

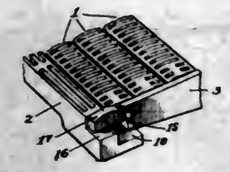
1,457,415. VIOLIN. JOSEPH ALTMEIER, Evansville, Ind. Filed June 29, 1921. Serial No. 481,343. 7 Claims. (Cl. 84—275.)



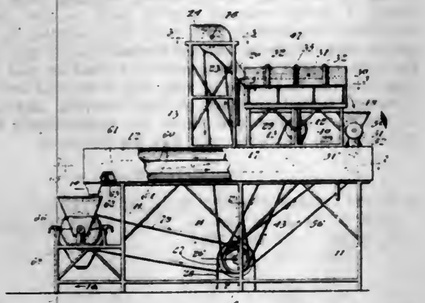
5. A violin comprising a body, a neck having an abutment bearing against the forward end of the body, the bottom of the body having an extension at its forward end overlapping and secured to said abutment, a block secured within the forward end of the body and having a post rising from the top of the body, and the neck having a finger board extending across and secured on said post.

1,457,416. ROCKING AND DUMPING GRATE. CHARLES E. BARBITT, South Portland, Me., assignor to Hamlin Rocking Grate Co., Portland, Me. Filed Oct. 31, 1921. Serial No. 511,952. 1 Claim. (Cl. 126—176.)

In a rocking and dumping grate assembling, the combination, with a frame structure composed of at least four supporting elements,—said elements to be two side-bars and two end-bars,—with rocking grate members pivotally hung thereon, of means for securing the corner joints or junctures of said frame structure against lateral and endwise movements, said means consisting of the cut away portions of the extremities of said side-bars and said end-bars which provide shoulders whereby inward movement of either of the bars (side or end) is prevented, and also of the off-set side shelf portion on the extremities of the end-bars provided with upwardly extending lugs adapted to abut and shoulder behind and against thickened portions on the ends of said side-bars whereby outward movement of either side-bars or end-bars is prevented, constituting an interlocking corner joint, substantially as illustrated and described.

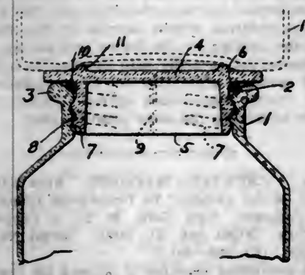


1,457,417. APPARATUS FOR PROCESSING PUMPKIN AND LIKE MATERIAL. LELAND A. BABCOCK, Chicago, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,292. 3 Claims. (Cl. 99—2.)



3. A mechanism for softening and cooking cut pumpkin, comprising a combined tank and steam chamber, means for heating the water in said tank to cause the generation of steam, a conveyor for carrying the cut pieces of pumpkin through said steam chamber above the water therein to expose the cut pieces to the direct action of steam, and means for feeding the cut pieces of pumpkin into said chamber and onto said conveyor, said feeding means comprising means for preventing the escape of steam from said chamber.

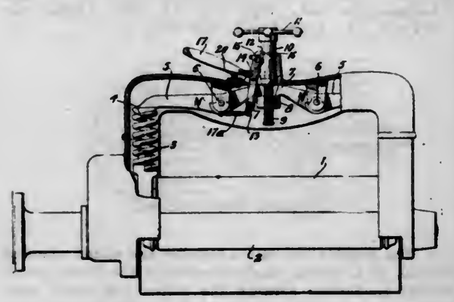
1,457,418. CLOSURE FOR FRUIT AND OTHER WIDE-MOUTHED JARS. FREDERIC E. BALDWIN, Philadelphia, Pa. Filed Apr. 22, 1922. Serial No. 556,042. 5 Claims. (Cl. 215—38.)



1. A closure for fruit jars and other wide-mouthed containers comprising in combination an internally

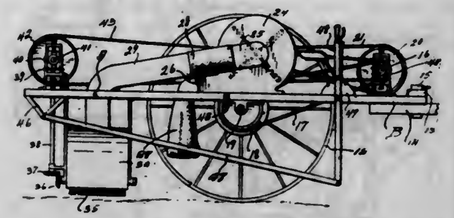
tapering and threaded neck provided on the inside of its rim with an outwardly flaring flat seat and on the outside of its rim with a bead reinforcing the flat seat, a cover member provided with a centrally arranged hollow collar having spherical form at its union with the cover and providing a seat, said collar having external segmental threads of less width than the neck threads to afford endwise play and having the mold seam arranged between the thread segments, and a flat gasket seated on the spherical seat and adapted for line contact with the flat seat.

1,457,419. CLOTHES WRINGER. THOMAS W. BEHAN, Binghamton, N. Y. Filed Dec. 29, 1920, Serial No. 433,773. Renewed Oct. 30, 1922. Serial No. 597,920. 6 Claims. (Cl. 68—32.)



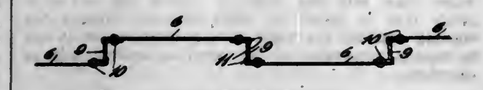
1. In a wringer or the like provided with a pair of parallel rolls and releasably supported means for exerting pressure between said rolls, the combination of a supporting device for said means, said device including a toggle which is unbroken when in supporting position, and manually operable means independent of said toggle for breaking said toggle to release said first mentioned means.

1,457,420. POTATO BUG AND APHIS EXTERMINATOR. FREDERICK W. BENDER, Cape Charles, Va. Filed Aug. 19, 1922. Serial No. 582,943. 6 Claims. (Cl. 43—140.)



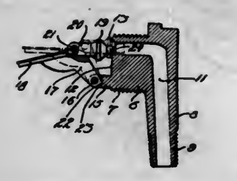
3. In an insect destroyer of the character described, a supporting frame, traction wheels thereon, an exhaust fan including an exhaust fan casing, the casing having an outlet and a receptacle connected thereto, a suction pipe leading from the casing and extending rearward and then downward, a hood into which the suction pipe extends, the hood having end walls cut away to straddle a row of plants, a plurality of pipes leading from the suction pipe into the interior of the hood and opening at different portions of the hood, a pair of shafts passing through the hood parallel to the line of draft of the machine, brushes mounted upon said shafts, the brushes having a length equal to the length of the hood, and means for rotating the brushes in opposite directions and in a direction to cause those bristles projecting toward the middle of the hood to sweep upward.

1,457,421. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1922. Serial No. 609,468. 4 Claims. (Cl. 108—5.4.)



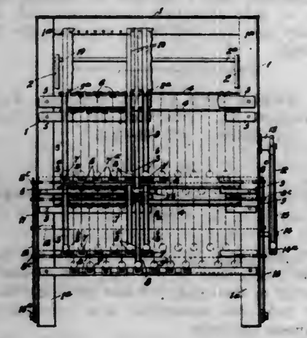
1. A metal car roof comprising carline members having upper and lower flanges and metal roof sheets alternately disposed at two elevations and riveted to the upper and lower flanges respectively of said carlines.

1,457,422. DRAIN-VALVE DEVICE FOR HYDRANTS. LEON T. BUCKLER, Philadelphia, Pa., assignor to George B. Clay, Elkins Park, Pa. Filed Nov. 23, 1920. Serial No. 426,100. 4 Claims. (Cl. 137—13.)



3. A drain device for hydrants including a body portion having a drain passage communicating with the interior of the hydrant water conduit; an outwardly closing valve for closing the drain passage, and means connected with the valve and movable, by water pressure in the conduit, to actuate the valve and close the drain passage, said means including an arm pivoted to the body portion and to the valve, substantially as described.

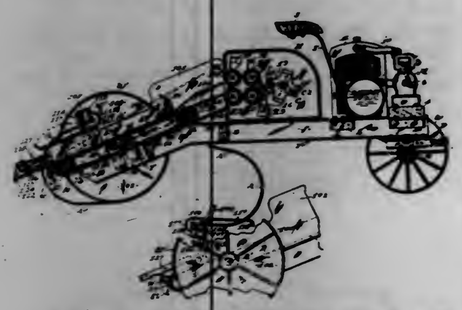
1,457,423. TYPESETTING APPLIANCE. CHARLES ASHTON HENRY BULLOCK, London, England. Filed May 2, 1921. Serial No. 466,030. 2 Claims. (Cl. 211—42.)



1. A typesetting appliance comprising a frame, means for supporting said frame at an angle to the horizontal, a plurality of channels adapted to contain type arranged side by side within said frame, a common rod upon which all said channels are pivoted by their upper ends, spiral springs connected between said rod and said channels for biasing said channels to elevated position, said springs encircling said rod, stops for limiting the upward

movement of said channels disposed below said pivoted connection, finger pieces at the lower ends of said channel, openings adjacent said finger pieces, a fixed stop beneath each channel adapted to pass into its appropriate channel when said channel is depressed by the finger piece, said stop operating against the foot of a single type to insure its being extended through the opening adjacent the finger to a position where it can be readily withdrawn by the operator, substantially as specified.

1,457,424. BRUSH-CUTTING MACHINE. WALTER R. BUNCH, La Verne, Calif., assignor of one-half to Arthur G. Hamilton, Fontana, Calif. Filed May 23, 1921. Serial No. 471,975. 18 Claims. (Cl. 55—118.)



1. A brush cutting machine including a rigid frame, a power element mounted on said frame, and a rotary cutting mechanism also mounted on said frame and including a plurality of feeding elements for conveying matter to be cut to the cutter, and a cutter cooperating therewith, conveying means for delivering matter to said feeding elements, said conveyers including a plurality of parallel endless carriers for moving matter forwardly of the machine to the cutting mechanism, and a collecting device supported at the end of said conveyer mechanism and movable over the surface of the ground for receiving matter deposited thereon during the progress of the machine, said collecting units embracing a plurality of curved rake elements commonly mounted and independently yieldable, means for simultaneously operating all of said rake elements for moving them into inoperative position, and a guiding mechanism supported rearwardly of said collecting mechanism and extended longitudinally over the bed of the machine, for the purpose described.

1,457,425. TRACK AND CURVE GAUGE. JUNIUS E. BUSBY, Hazard, Ky. Filed Feb. 27, 1922. Serial No. 539,622. 14 Claims. (Cl. 33—145.)



1. In a track gauge, a gauge body, having means at one end for attachment to one rail, and means detachably connected to the other end and offset laterally from the gauge body for measuring and ascertaining the spacing between the rails.

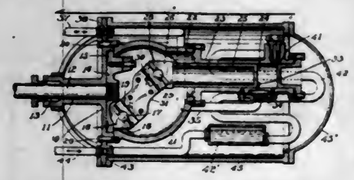
1,457,426. INDICATING MEANS. CHARLES R. CAMERON, Los Angeles, Calif. Filed Aug. 29, 1922. Serial No. 585,090. 1 Claim. (Cl. 88—1.)

The combination, with a head light having the usual casing, lens member, retaining ring for holding the lens to the casing, and lamp within said head light, of means adapted for placement in front of the lens member for receiving rays of light from the lamp and projecting a portion of said rays in a direction rearwardly of the head light; said means being provided with a member



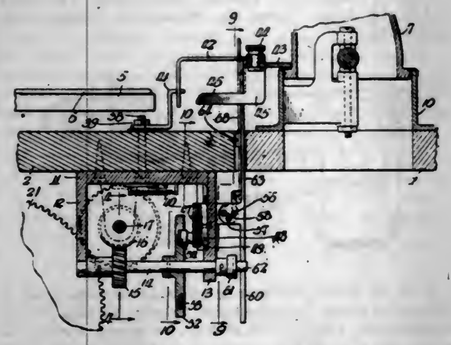
adapted to be locked between the casing and retaining ring for maintaining said means in position relative to the head light.

1,457,427. CONDENSING PUMP. OLIVER H. CASTLE, Indianapolis, Ind. Filed Aug. 31, 1921. Serial No. 497,199. 7 Claims. (Cl. 230—27.)



1. The combination with a cylinder and piston mounted therein, of a driving shaft eccentric to the piston and a driving connection between the piston and shaft, comprising an eccentric bearing block carried by the driving shaft, a bearing block carried by the piston, a pair of trunnion members, each comprising a pair of trunnion pins lying at right angles to each other, one pin of each trunnion member journaled in a bearing block, and a connecting link connecting the other pins of the trunnion members.

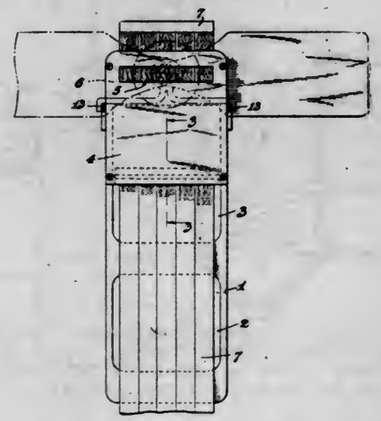
1,457,428. REPEATING DEVICE FOR PHONOGRAPHS. JOHN A. EITUTIS, Chicago, Ill. Filed Feb. 18, 1921. Serial No. 446,023. 8 Claims. (Cl. 274—15.)



1. In a phonograph, the combination with a motor, a turn-table above and driven thereby, and a tone arm mounted to swing over the turn-table and provided with a reproducer, of a repeating mechanism including means for raising the reproducer off of the record at the completion of the playing thereof and swinging the tone arm toward the outer edge of the record and lowering the reproducer to bring its stylus into engagement with the record at the beginning of the playing groove, said mechanism being driven by said motor and thrown into clutch therewith by the tone arm upon the completion of the playing of the record and remaining in clutch

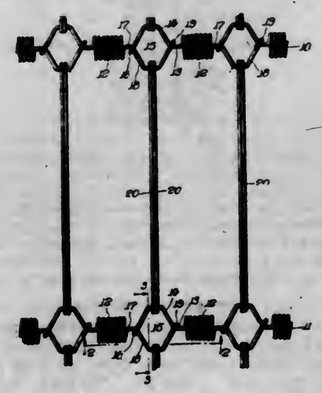
with said motor until after the stylus of the reproducer is brought into contact with the record at the beginning of the playing groove, and means for setting the mechanism for records of various diameters and also for swinging the tone arm clear of the outer edge of the turntable when desired, said setting means being carried by said raising and lowering means.

1,457,429. READING MACHINE. BRADLEY A. FISKE, Washington, D. C. Filed Jan. 30, 1922. Serial No. 532,866. 2 Claims. (Cl. 88—39.)



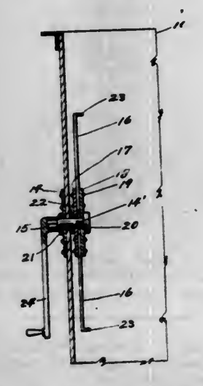
1. In a reading machine, the combination of a frame, a front plate secured to the frame, and between which and the frame is arranged the strip or sheet carrying the reading matter, said front plate being formed with a slot through which the reading matter will be observed, a lens supported by the frame for viewing the reading matter through said slot, and means for feeding the strip or sheet to move the reading matter with respect to the lens, substantially as set forth.

1,457,430. BEDSPRING FABRIC. CHARLES H. GAIL, Cincinnati, Ohio, assignor to The Shott Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 22, 1921. Serial No. 463,631. 4 Claims. (Cl. 245—5.)



3. A bed-bottom fabric comprising in combination, a plurality of spaced transverse rows of short horizontal helical springs directly connected together end to end with eyes between them each eye formed conjointly of terminal portions of the wires of which the adjacent springs are composed, and rows of elements disposed lengthwise the fabric engaging said eyes.

1,457,431. RECEPTACLE AND AGITATOR THEREFOR. RICHARD GUTHRIDGE, Norristown, Pa. Filed Sept. 9, 1921. Serial No. 499,381. 3 Claims. (Cl. 259—109.)



1. The combination of an open top receptacle, including vertical side walls and end walls which incline toward a normally closed discharge in the receptacle bottom and an opening device for said discharge with a plurality of independently mounted, rotatable, material displacing devices oppositely arranged in pairs at each end of the receptacle and so positioned upon said side walls that when rotated, "packed" material at the receptacle ends is caused to move along said inclined walls to said opening and means common to said opening device and said displacing devices for independently operating the same.

1,457,432. WATCH-BRACELET HOOK. GASTON A. GUYOT and ARTHUR F. GUYOT, Attleboro, Mass. Filed Jan. 16, 1922. Serial No. 529,424. 2 Claims. (Cl. 24—237.)



1. A watch bracelet hook formed of a single piece of stock comprising front and back body members connected by a pair of widely-separated joint portions folded to engage and support each other a substantial distance inward from the bend, a yieldable tongue on the free end of one of said members bent into hook form and the opposite member being adapted to close said hook by the inherent spring at the joint, said members being provided with a strap-receiving opening.

1,457,433. SPRING WHEEL. JOSEPH HAMELIN, Bienville, Quebec, Canada, assignor, by mesne assignments, of one-half to Antoine Hamelin, Bienville, Quebec, Canada. Filed Sept. 28, 1921. Serial No. 503,731. 1 Claim. (Cl. 152—37.)

In a resilient disk wheel, the combination of a hub; a disk encircling the hub and secured thereto, said disk having its outer peripheral portion laterally offset; an offset annular plate secured to said disk immediately adjacent the offset portion thereof to conjointly form with

such portion an annular member of channel section; a second annular member of channel-section slidably related to the first member; cushioning means interposed



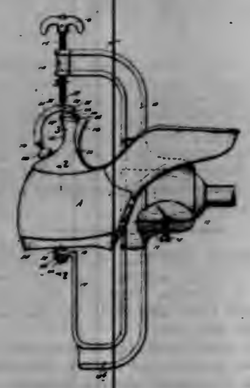
between the two channel members and connected to the same; an annular rim encircling and secured to the second channel member; and a tire on said rim.

1,457,434. PITMAN. EDWARD WILLIAM HANSEN, Minden, Nebr. Filed Oct. 18, 1921. Serial No. 508,504. 3 Claims. (Cl. 74—17.)



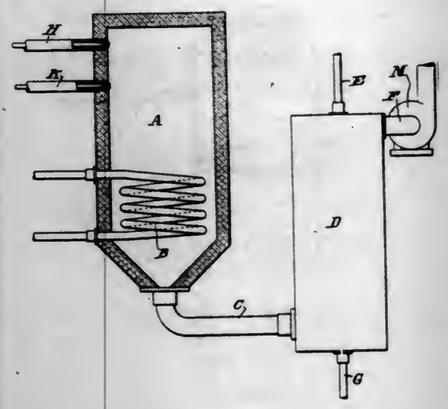
1. In a pitman, the combination with a body member, diametrically opposite plates secured to one end portion of said body member and provided with threaded arms projecting beyond the latter, a bearing box through which said threaded arms pass freely, plates fitted upon said arms against the opposite sides of the bearing box and bridging the arms, nuts on said threaded arms bearing against said plates at respective sides of the bearing box, whereby said bearing box may be adjusted to adjust the effective length of the pitman, and a bearing box at the other end of said pitman.

1,457,435. HEEL-ATTACHING DEVICE. JOSEPH F. HIGGINS, Brooklyn, N. Y. Filed Mar. 5, 1920. Serial No. 363,443. 7 Claims. (Cl. 12—125.)



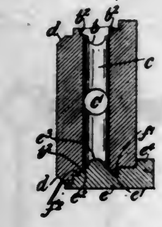
1. In a shoe heel attaching device, a single adjustment clamping means adapted to clamp the shoe and heel and apply component lateral pressures to prevent strain upon the heel and producing a resulting pressure along a perpendicular line extending through the shoe and heel, and means permitting an axial swinging movement of the shoe about said perpendicular line.

1,457,436. PROCESS OF MAKING METAL SULPHIDES. HENRY HOWARD and EARL BURNARD ALVORD, Cleveland, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 29, 1921. Serial No. 525,713. 12 Claims. (Cl. 23—13.)



1. Process of making metal sulphide which comprises suspending a metal sulfate in a finely divided condition in a reducing atmosphere at high temperature.

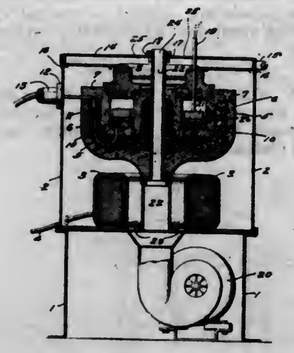
1,457,437. BUILDING BLOCK. CAROLINE KELLY and THOMAS BREVERS BELVOIR, Warden, Isle of Sheppey, England. Filed Sept. 20, 1921. Serial No. 502,016. 3 Claims. (Cl. 72—41.)



1. A block for building purposes comprising at least three elements stepped relatively to one another both vertically and horizontally, so that each block, although formed in one piece, is in the form of superposed parts and having vertical and horizontal grooves in its edges.

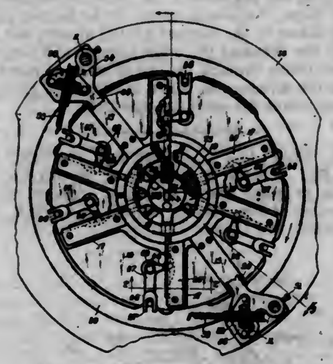
1,457,438. PERMEAMETER FURNACE. GEORGE A. KELSALL, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 23, 1921. Serial No. 454,814. 15 Claims. (Cl. 204—64.)

3. A permeameter furnace comprising primary and secondary windings, means for testing a specimen of magnetic material, and a heating chamber suitably heat insulated from said windings, said heating chamber con-



taining heating means which is adapted to heat the specimen to be tested.

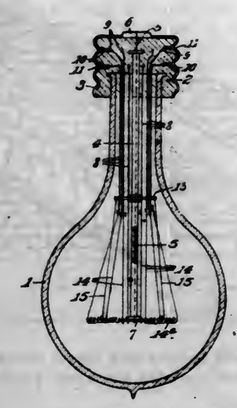
1,457,439. CORE-MAKING MACHINE. OSKAR KYLIN, Elkhart, Ind., assignor to Foster Machine Company, Elkhart, Ind., a Corporation of Indiana. Filed Nov. 3, 1921. Serial No. 512,435. 13 Claims. (Cl. 22—13.)



1. In a core machine, the combination of a plurality of core forming segments having tapered outer surfaces, an internally tapered annular member adapted to clampingly engage said tapered surfaces of said segments, radially movable segment-actuating members pivotally attached to the outer sides of said segments, relatively stationary guides forming supports for said movable members, and means for actuating said movable members.

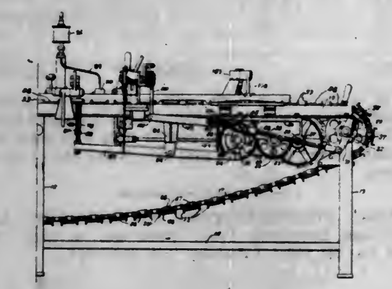
1,457,440. INCANDESCENT ELECTRIC LAMP. CHARLES EDWARD LEECE, Youngstown, Ohio, assignor of one-third to Robert Franklin Leece and one-third to Bolden Clark, both of Youngstown, Ohio. Filed July 6, 1921. Serial No. 482,688. 3 Claims. (Cl. 176—26.)

1. An incandescent filament lamp comprising a base and a globe, a metallic shell embracing said base, a plurality of filaments supported within the globe, a contact member carried by the base, a plurality of threaded sockets in said base, means for connecting said filaments



at opposite ends to the contact member and to the sockets, and screws for threading into the sockets to connect electrically between the filaments and the shell.

1,457,441. SOLDERING MACHINE. GEORGE A. LEIGHTON, Roslindale, Mass., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 6, 1920. Serial No. 428,596. 16 Claims. (Cl. 113—59.)

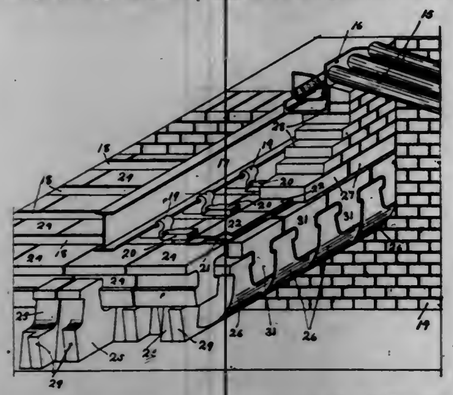


1. A machine for applying solder to metal articles, comprising a longitudinal guide and an endless link conveyer for moving said articles into position to be operated upon, and automatic means at stations along said guide for feeding and applying solder and shaping articles as desired actuated in connection with the movement of the said conveyor.

1,457,442. FURNACE ARCH. MICHAEL LIPTAK, St. Paul, Minn., assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 21, 1918. Serial No. 259,026. 8 Claims. (Cl. 110—99.)

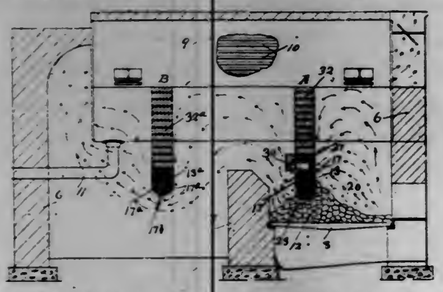
1. A furnace arch comprising laterally spaced beams, hanger blocks hung from said beams, underfacing blocks interlocked with and hung from said hanger blocks, corner

blocks hung from the end members of said hanger blocks but projecting beyond the same, and filling blocks of sub-



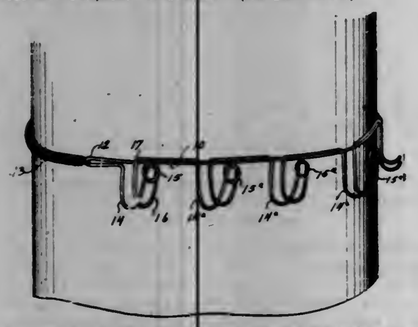
stantially the same form as said hanger blocks filling the space between and overlying the upper portions of said corner blocks.

1,457,443. FURNACE. MICHAEL LIPTAK, St. Paul, Minn., assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 5, 1918. Serial No. 265,448. 12 Claims. (Cl. 110—93.)



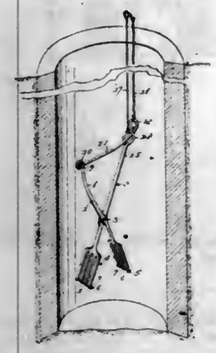
1. In a furnace, a baffle wall comprising a metallic supporting beam, side facing blocks hung upon said beam, and bottom facing blocks suspended from said beam and detachable therefrom while said side facing blocks are in position.

1,457,444. DRYING SUPPORT FOR ARTICLES. LON MCCALEB, Dyersburg, Tenn. Filed Mar. 4, 1922. Serial No. 541,162. 2 Claims. (Cl. 126—341.)



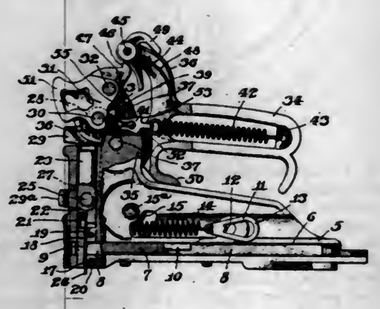
1. A device of the character described formed of a single length of wire, the wire being bent to form an arcuate body having eyes at its opposite ends, the wire then being extended beneath the body wire and bent to form depending hooks having upwardly turned bills, the portion of wire between said hooks extending over the top of the body wire and normally resting thereon, and a coiled contractile spring permanently engaged at one end with one of said eyes and adapted to be detachably engaged with the other eye.

1,457,445. GRAPPLING TONGS. HARVE MARCUM, Booneville, Ky., assignor of one-half to Rutherford B. Roberts, Hazard, Ky. Filed May 29, 1922. Serial No. 564,356. 3 Claims. (Cl. 294—116.)



1. A grappling device comprising a pair of crossed members pivotally united at their point of intersection, the corresponding end portions of the members terminating in grappling forks, the prongs of the forks having gripping teeth, the shank of one member having an eye, and a link pivoted to the shank of the other member and adapted to operatively clamp through the eye of said one member for actuating the members to cause the forks to grapple an object, and means for actuating the link.

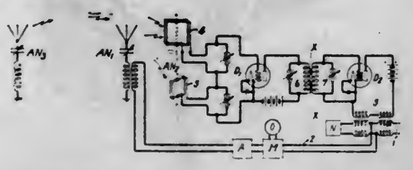
1,457,446. STAPLING MACHINE FOR DRIVING WIRE STAPLES. ELWOOD H. MICHENER, Woodlynne, N. J., assignor to Acme Staple Company, Camden, N. J., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 534,855. 16 Claims. (Cl. 1—3.)



4. In a staple driving machine, the combination of a frame provided with a staple-guiding channel and with means to supply staples successively thereto, a staple driver movable in said channel, a pair of pivoted parts forming a toggle joint, said parts connecting the driver with the frame, an operating lever, a spring carried thereby and connected to one of said pivoted parts, and means adapted to move said toggle joint elements from a first to a second position against the action of the spring to

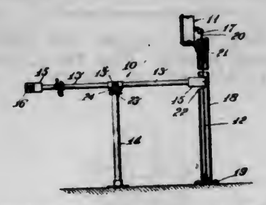
place it under tension and thereafter to release said parts to return to initial position and permit the tensioned force of the spring to actuate the connected driver to drive a staple.

1,457,447. RADIO RECEIVING CIRCUITS. JOHN MILLS, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1921. Serial No. 524,070. 9 Claims. (Cl. 250—9.)



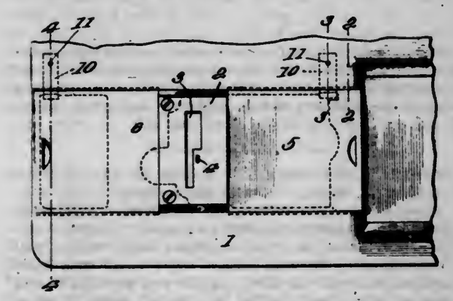
1. A receiving antenna comprising a series arrangement of two directive loops, respectively tuned to different frequencies, said loops being independently rotatable.

1,457,448. TURNSTILE REGISTERING APPARATUS. SAM MITZENMACHER, Chicago, Ill., assignor of one-half to Nathan Kanet, Chicago, Ill. Filed May 19, 1922. Serial No. 562,259. 3 Claims. (Cl. 235—93.)



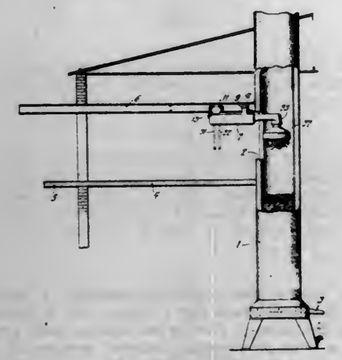
1. In apparatus of the character described, the combination with a turn-stile having radially extending arms adapted to rotate on a vertical axis, of means for registering predetermined movements of said arms comprising registering mechanism, and means for actuating said registering mechanism comprising a normally taut flexible member positioned in the path of travel of said arms so as to be engaged thereby.

1,457,449. CLOTH PLATE FOR SEWING MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1921. Serial No. 500,179. 3 Claims. (Cl. 112—260.)



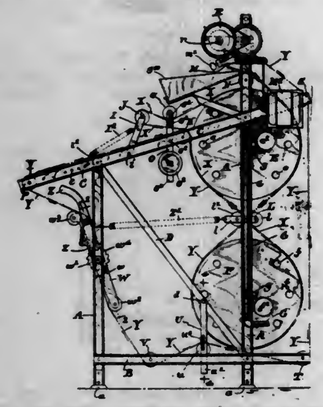
1. A cloth plate for sewing machines having an opening therethrough, a cover plate for said opening, said cloth plate being formed with supporting ledges at opposite sides of the opening, and walls extending upwardly from said ledges and forming a recess for the cover plate, said cover plate having walls at the opposite sides thereof corresponding to the walls of the recess in the cloth plate, the distance of the supporting ledge at one side of the cloth plate and from the surface of the cloth plate being greater than the thickness of the cover plate, whereby when said cover plate rests on the supporting ledge, it will fit loosely in the recess, and spring means for forcing the cover plate upwardly and causing said cover plate to frictionally engage the cloth plate.

1,457,450. CUPOLA-CHARGING HOIST. WILLIS H. MORGAN, Connersville, Ind. Filed Dec. 2, 1921. Serial No. 519,366. 18 Claims. (Cl. 212—126.)



1. In mechanism of the class described, the combination of a track, an arm movably supported by the track and adapted to have its forward end projected within a cupola, a hoist mounted on the arm, a lifting magnet supported by the hoist at the forward end of the arm, means mounted on the arm for moving the arm whereby the magnet, when raised, may be projected into a cupola, and means operable by movement of the arm to deenergize the magnet when it is centrally disposed within a cupola.

1,457,451. DRIER FOR PHOTOGRAPHIC PRINTS. WILBERT H. MORGAN, Brooklyn, N. Y. Filed Apr. 20, 1922. Serial No. 555,725. 13 Claims. (Cl. 34—4.)



1. In a drier for photographic prints and the like, the combination of upper and lower heated drums, with an air space between them, a belt traversing both drums

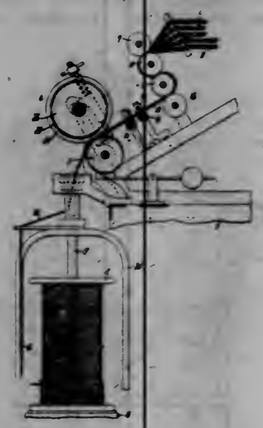
and a belt guide in the air space between the drums for drawing the oppositely moving portions of the belt between the drums towards each other and thus increasing the amount of surface contact between the belt and the drums.

1,457,452. DRESSING TOOL FOR EMERY WHEELS. HENRY MORAIS, Springfield, Ohio, assignor to The Western Tool & Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Aug. 26, 1920. Serial No. 406,177. 4 Claims. (Cl. 125—38.)



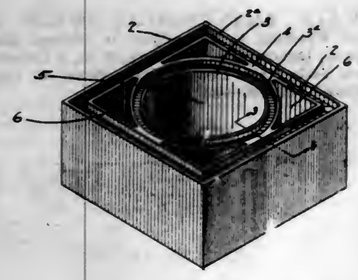
1. In a tool of the character described, a metallic casing of elongated shape and provided with a plurality of exterior flat faces to provide flat bearing seats for the tool, and a stick of abrading material permanently enclosed in said casing and projecting from one end thereof, said casing being of a character adapting it to be ground away to expose the abrading material as it wears, the plurality of flat faces of the casing enabling the same to be turned and supported in different positions when in use to thereby permit the exposed end of the abrading material to wear equally on a plurality of sides and render the same self-sharpening.

1,457,453. DRAWING ROLL. PATRICK A. MURPHY, Lynn, Mass., assignor to Textile Rubber Co., Boston, Mass., a Corporation of Massachusetts. Filed May 25, 1922. Serial No. 563,514. 3 Claims. (Cl. 19—143.)



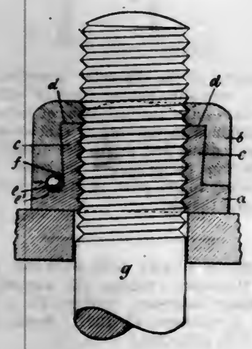
1. A drawing roll having, in combination, a rigid core and a plurality of superimposed layers of rubber compound located upon said core, the degree of hardness of said layers decreasing from the inner layer outward.

1,457,454. BUILDING BLOCK. FRED PATEE, Casper, Wyo. Filed June 21, 1920. Serial No. 390,330. 2 Claims. (Cl. 72—92.)



1. A building block having a wall surrounding a central opening therethrough, the upper surface of said wall comprising spaced upstanding flanges providing a groove therebetween, one flange being integral with the outer surface of the wall; the lower surface of said wall having a depending flange complementary to the groove on its upper surface, whereby blocks of like construction may be interlocked in tiers.

1,457,455. LOCK NUT. WALTER CLAY PETERS, Graffham, Petworth, England. Filed Feb. 1, 1922. Serial No. 533,216. 3 Claims. (Cl. 151—15.)

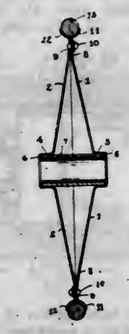


1. In a twin lock nut, a nut having an undercut socket, a second nut, a conically divergent spigot on said second nut fitting said socket, and a ball located in the meeting face of one said nut and entered in a segmental groove in the meeting face of the other said nut.

1,457,456. DISK WHEEL. AUGUST J. PETRIE, West Allis, Wis., assignor to Milwaukee Stamping Co., West Allis, Wis., a Corporation of Wisconsin. Filed Mar. 20, 1922. Serial No. 545,301. 4 Claims. (Cl. 301—63.)

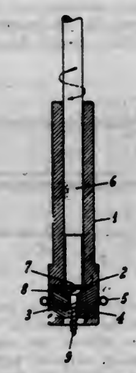
2. A device of the class described comprising a pair of substantially identical dished sheet metal disk members provided with integral annular hub portions having inturned flanges adapted to engage a bearing member, said disk members being also provided with alternately projecting bosses adjacent their outer circumference adapted to co-act to position said members in alinement; a

bearing member mounted within said hub portions; and means associated with said alining bosses for securing



said disk members together, whereby said flanges may be caused to engage said bearing member to retain it in position.

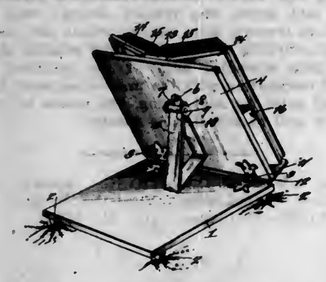
1,457,457. DEVICE FOR INSERTING SCREWS. EMIL PEYER, Wangen, Switzerland, assignor to the Firm Walder & Co., Brutisellen, Zurich, Switzerland. Filed Mar. 2, 1921. Serial No. 449,076. 1 Claim. (Cl. 145—50.)



In combination with a rotary screw-driving shaft, a sleeve having a longitudinal bore to receive said shaft and also having a transverse slot, near the outer end, intersecting said bore, jaws slidably mounted in said slot and having a screw-receiving bore in their opposing ends, formed partly in each of them, said bore having at the end next the opposing end of said shaft a conical counterbore to receive the head of a screw and presenting cam surfaces to coact with the head of the screw and move said jaws outwardly as the screw is driven by the shaft, and a spring pressing said jaws toward each other.

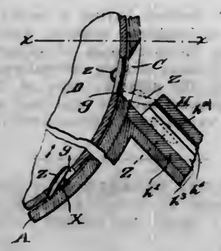
1,457,458. BOOK HOLDER. ISIDORE J. PLAMONDON, Dubuque, Iowa. Filed June 10, 1922. Serial No. 567,240. 4 Claims. (Cl. 45—80.)

3. A book holder, comprising a base, a main book holder hingedly mounted thereon adjacent one edge thereof, means carried by the rear face of the main book support and cooperating with the base, for holding the main book support in different inclined positions, side leaves hingedly mounted upon the front face of the main book support, for the purpose of supporting the back portions of the book when in open position, triangular members or braces having hinge pins extending in parallel directions with the length of the side leaves and mounted in bearings thereof, whereby said triangular



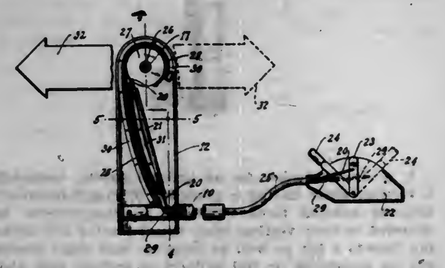
members or braces may be swung laterally to the leaves to assume different positions on the main book support, to hold the leaves in various inclined positions.

1,457,459. FEED MECHANISM FOR SMALL METAL ARTICLES. VOJTĚCH PUC, Prague-Vinohrady, Bohemia. Filed Feb. 6, 1920. Serial No. 356,782. 10 Claims. (Cl. 79—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A machine for feeding small metal articles, comprising a drum or casing having a delivery opening in its periphery, an inner drum having transversely arranged openings in its periphery to receive the articles, means for revolving the inner drum to carry the articles upwards to the delivery opening of the casing, and guide channels through which the articles pass from said delivery opening.

1,457,460. VEHICLE SIGNAL. HARRY C. RAYMOND, Salt Lake City, Utah. Filed Sept. 26, 1921. Serial No. 503,325. 2 Claims. (Cl. 116—51.)



1. A signal device of the character described comprising a tubular support, a casing carried by one end thereof, a shaft extending across the casing, a hollow shaft rotatable upon said shaft carrying a disk, a signal blade carried by the disk and normally disposed within the

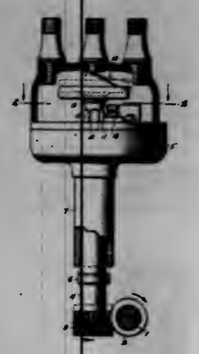
casing, a spring of convolute form having one end secured to and partially wrapped about said disk, a relatively stiff flexible member connected with the free end of said spring and trained through said tubular support, an involute strip secured within the casing and partially encircling the disk in spaced relation thereto, a second strip extending adjacent the periphery of the disk and cooperating with the first named strip to define a channel guide for said spring, and means for applying a push or pull to said flexible member.

1,457,461. METALLIC PACKING. JOSEPH HOWARD RENSHAW, Canton, Ohio. Filed Oct. 3, 1921. Serial No. 505,176. 7 Claims. (Cl. 74—109.)



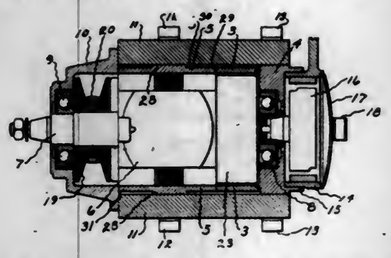
3. A metallic packing having a series of laterally adjacent kerfs in staggered relation, with rows of inflexible bonds at alternate ends of adjacent kerfs and resilient bars reversely flexible circumferentially of the packing, whereby the adjacent sides of the bonds are maintained in parallel relation and may abut throughout their whole extent by a circumferential compression of the packing.

1,457,462. CIRCUIT BREAKER FOR IGNITION SYSTEMS. ANDREW L. RIKER, Fairfield, Conn. Filed Apr. 8, 1921. Serial No. 459,809. 6 Claims. (Cl. 200—25.)



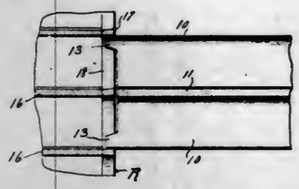
1. A circuit-breaker for an ignition-system, comprising a vertical shaft having a plurality of circumferentially-disposed reduced faces separated by cam-portions and mounted to have vertical play, spiral-gearing for imparting thereto a lift as well as rotation, said shaft presenting an unreduced or full cylindrical surface just above said reduced surfaces, and a spring carrying the movable contact-member and engaged by said unreduced cylindrical portion while resting in its lowered position but engaged by said cam portions while rotating in the lifted position.

1,457,463. MAGNETO. WOLFGANG E. SCHWARZMANN, Longmeadow, Mass., assignors to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Jan. 11, 1921. Serial No. 436,626. 14 Claims. (Cl. 171—209.)



1. In a magneto, the combination of a permanent magnet having side arms and a cross-bar therebetween, pole shoes for said magnet and a non-magnetic casing having portions interposed between said pole shoes and said cross-bar, raised portions of said pole shoes and the ends of said cross-bar projecting outwardly into contact with said magnet arms, and means for maintaining said magnet arms in contact with said raised portions and the ends of said cross-bar.

1,457,464. POOL-BALL CARRIER. RUFUS M. SHERROD, Dyersburg, Tenn., assignor of forty-nine one-hundredths to Bynum H. Sullenger, Dyersburg, Tenn. Filed Mar. 27, 1922. Serial No. 547,040. 3 Claims. (Cl. 46—6.)



1. A pool ball carrier for use in transferring pool balls from wall racks having supporting shelves and an end wall with which the shelves are engaged and which is provided with openings aligned with said shelves and through which balls carried by the shelves may be removed, comprising a plurality of substantially parallel cylinders each having one end closed and the opposite end open, said cylinders combining to form a portable unit and being adapted for engagement against the end wall of the rack with the open ends thereof in alignment with adjacent openings of the end wall of the rack and in substantial alignment with the shelves upon which the balls are arranged to thereby permit removal of the balls carried by the shelves through the openings of the end wall into said cylinders for transportation in said cylinders.

1,457,465. SHADE FIXTURE. ISAAC S. SHERWIN, Chattanooga, Tenn. Filed Aug. 19, 1922. Serial No. 582,982. 3 Claims. (Cl. 156—27.)

1. As a new article of manufacture, a reversible side bracket for a window frame or the like comprising a member substantially U-shaped in cross section, a side wall of the bracket being provided with an outstanding flange provided with means to attach the same in applied position, a plate, a pin pivotally connecting the plate with the second side wall of the bracket, said pin bridging the space between the side walls of the bracket to provide a shaft, said plate being provided with an outstanding foot to engage an end portion of a guide rod, a roller mounted upon the portion of the pin between

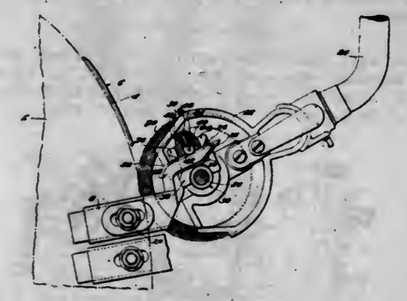


the side walls of the bracket, the intermediate wall of the bracket being provided with an opening.

1,457,466. PROCESS OF PURIFYING GELATIN AND GLUE. CLAUDE R. SMITH, Washington, D. C. Filed June 19, 1920. Serial No. 390,253. 1 Claim. (Cl. 87—7.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

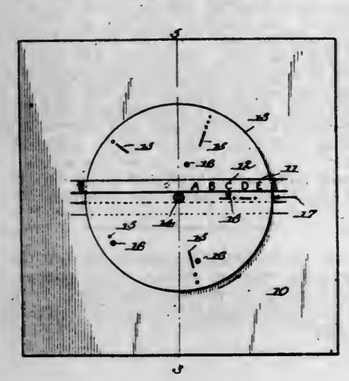
A process of purifying gelatin and glue free from mineral matter, acids and alkalies which comprises extensive dialysis with acidified salt solutions, then consecutive applications of neutral salt solutions of gradually decreased strengths, and finally pure water.

1,457,467. DEVICE FOR OPERATING UPON THE CARDS OF CARDING ENGINES. JOSEPH J. SMITH, Cambridge, Mass. Filed May 6, 1919. Serial No. 295,185. 9 Claims. (Cl. 19—109.)



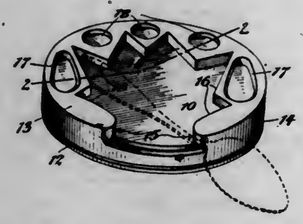
2. A portable device of the class described for operating upon a card cylinder of a carding engine having, in combination, a roll to act on the card, brackets for attachment to the carding engine, bearings for the ends of the roll adapted to be slid on the brackets in a direction to move the roll directly toward the axis of the card cylinder into operative position, and means cooperating with the bearings and brackets for locking the roll in operative position.

1,457,468. EDUCATIONAL DEVICE. THEODORE M. SMITH, New York, N. Y. Filed Aug. 12, 1922. Serial No. 581,505. 4 Claims. (Cl. 35—9.)



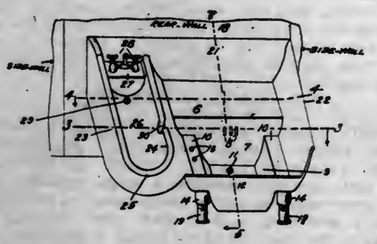
1. A new article of manufacture comprising a base, strips stamped out from said base, and disks mounted for rotation on said base, said disks being interposed between said base and said strip.

1,457,469. ENGRAVER'S TRANSFERRING DEVICE. EDWARD B. STEELE, Rochester, N. Y., assignor to Queen City Material Co., Buffalo, N. Y., a Corporation of New York. Filed Apr. 17, 1922. Serial No. 553,978. 8 Claims. (Cl. 41—1.)



1. An engraver's transferring device, comprising a transfer pad, and a holder for said pad having a flange overlapping the upper side of said pad and provided with a gage.

1,457,470. COMBINED STATIONARY WASHSTAND AND BATH CHAIR. GEORGE F. STEINKAMP, Cincinnati, Ohio. Filed Aug. 26, 1921. Serial No. 495,634. 3 Claims. (Cl. 4—27.)



1. In combination, in a device of the character described, a bath-chair section and a laterally-disposed

elongated integral washstand-section, the said bath-chair section comprising a horizontal transverse body-portion or bathing-seat proper, a foot-basin arranged forward of said bathing-seat proper and having a fore guard-wall, foot-rests at the opposite side-ends of the foot-basin, elevated back and side walls for the said bathing-seat proper and foot-basin, respectively, and said laterally-disposed elongated washstand-section extending integrally from one end of said bathing-seat proper and its fore foot-basin, means for independently supplying water to the washstand and foot-basin and likewise draining it therefrom, means for supporting the combined duplex bath-chair and washstand, and overflow-means from the washstand into the foot-basin and thence into the drain-pipe, substantially as shown and described.

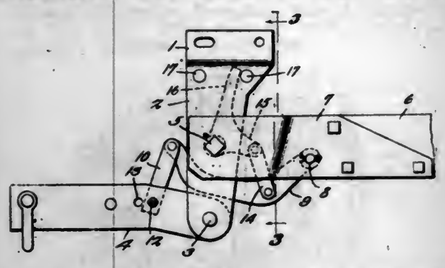
1,457,471. AUTOMOBILE GASOLINE GAUGE. WILLIAM DAVID STIVERS, Detroit, Mich., assignor of one-half to George P. Kimmel, Washington, D. C. Filed July 12, 1918. Serial No. 244,616. 7 Claims. (Cl. 73—82.)



2. A gasoline or fluid gauge, comprising a closure for a tank opening or the like, having a transparent cover, a dial within the closure, a stem depending from the dial and rigidly supported in a vertical position, said stem having its lower end formed with a horizontal apertured projection, another stem crossing the first named stem and having a crank portion at its lower end pivotally engaged with said horizontal portion and having a crank portion at its upper end rotatable axially in the diel, a pointer on the upper end of said last named crank portion, and a float having a vertical aperture receiving said stems, said float upon vertical movement causing the rotation of the second named stem whereby the opposite ends thereof will be caused to approach or separate from the first mentioned stem as and for the purposes specified.

1,457,472. DRAFT EQUALIZER. VENCEL J. TICHOTA and AUGUST TICHOTA, Dodge, Nebr. Filed June 11, 1921. Serial No. 476,796. 1 Claim. (Cl. 278—8.)

A draft equalizer comprising a tongue including upper and lower members, a lever therebetween having limited relative movement, a short draft lever pivotally connected to the front end of the tongue, a long draft lever pivotally connected to an intermediate portion of the tongue, the two levers being extended in opposite directions, an equalizing lever pivotally mounted within the long draft lever and extending transversely through the tongue, a link connection between said equalizing lever



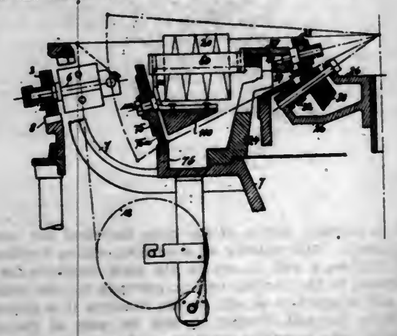
and the short draft lever, a link connection between the equalizing lever and the first named lever.

1,457,473. COMBINATION TAIL LIGHT AND DIRECTION INDICATOR. ALFRED E. TINKER, Stockton, Calif. Filed Mar. 16, 1921. Serial No. 452,881. 2 Claims. (Cl. 177—337.)



2. In a signal of the class described, a light box made to be mounted upon an automobile, a light in said box, an opening in the front of the box through which the light is adapted to be projected for signaling purposes, a cover hinged within the light box adapted to normally overlie said opening, a plate mounted upon the top of the light box and exteriorly thereof and connected to said cover at right angles thereto, said plate adapted to be actuated through the movement of said cover and normally lying flat upon the top of the light box when the cover is overlying the opening in the front of the light box, and a signal on the face of said plate adapted to be displayed when the plate is moved to upstanding position upon the top of the light box when the cover is moved away from the opening in the light box, the means for actuating said cover and said plate comprising a solenoid mounted within the light box and an operating connection between said solenoid and said cover.

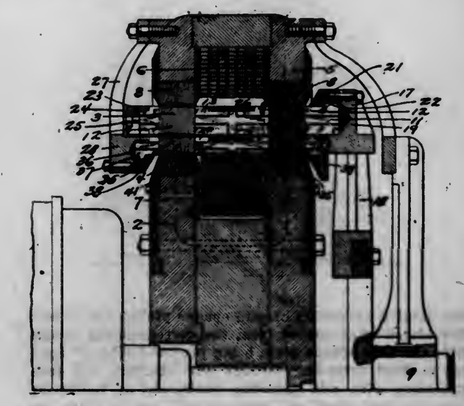
1,457,474. BRAIDING MACHINE. CARL TOBER, Berlin, Germany. Filed Jan. 31, 1921. Serial No. 441,423. 2 Claims. (Cl. 96—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a braiding machine, the combination with the inner and outer bobbins revolving in opposite directions

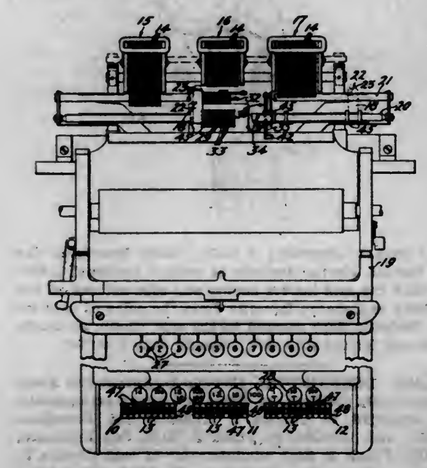
and bobbin frames therefor, of slides carrying the inner bobbins, rollers carried by the said slides, a track for the said slides, driving rollers for moving said rollers and thereby said slides along the said track, means for operating the said driving rollers, guide-rollers carried by said slides, and a supporting track for said guide-rollers.

1,457,475. ELECTROMAGNETIC APPARATUS. RUDOLPH W. VAN NORDEN, San Francisco, Calif. Filed Jan. 28, 1920. Serial No. 354,566. 12 Claims. (Cl. 172—239.)



1. In an electro-magnetic machine, a drum comprising a plurality of contiguous bars of non-magnetic dielectric material, and magnetic segments disposed between portions of the bars.

1,457,476. COMPUTING MACHINE. HARRY H. VICKERS, Corona, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,641. 21 Claims. (Cl. 235—60.)

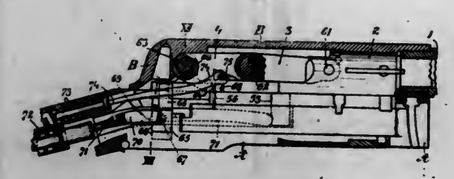


1. A combined tabulator stop and motor-trip actuator, comprising a fixed portion to actuate a motor trip and a member shiftable to and from effective position and

spaced at a plurality of denominational distances from said fixed portion, so that when said member is in effective position it will actuate the motor-trip actuator before it can be actuated by the fixed portion.

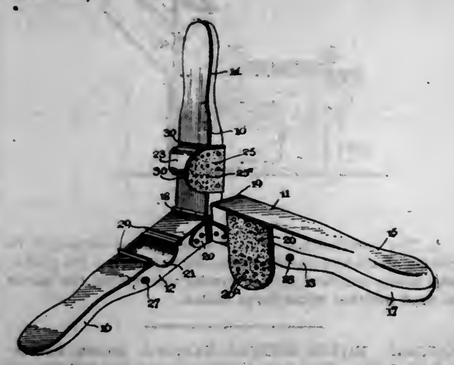
13. In a combined typewriting and computing machine, in combination, computing mechanism including two registers in which computations are to be effected according to a decimal system and a non-decimal system, respectively, tabulating mechanism whereby tabulating may be effected for both registers with provision for punctuation spacing, said tabulating mechanism comprising tabulator keys, certain of which may be used in connection with both registers, and a tabulator stop on the carriage for use with both registers, a motor trip to determine when numbers are to be run into the registers, and motor-trip-actuating means on said stop, the action of which may be varied in accordance with the register in use.

1,457,477. AUTOMATIC FIREARM. FRITZ WALTHER and GEORG WALTHER, Zella-Mehlis, Germany. Filed Aug. 29, 1921. Serial No. 496,758. 7 Claims. (Cl. 42—4.)



1. A recoiling barrel gun comprising in combination a recoiling barrel, a receiver, a breech block, a breech slide and a toggle joint between the slide and block, a lateral cam on the rear member of said toggle joint, a spring controlled arm pivotally mounted on the wall of said receiver for stopping said lateral cam at the end of the recoil of the breech slide so that at the forward movement of the breech slide the said toggle joint is bent and the breech block is opened, a barrel return spring for returning said breech slide means controlled by said spring to push the said spring controlled arm back to release the said cam, and a recoil spring for stretching said toggle joint to close the breech block.

1,457,478. LEMON AND LIME SQUEEZER. JOHN D. WILLIAMS and JACK ROBERT BOLTON, Sulphur Springs, and FELIX LOUIS STRUVE, Greenville, Tex. Filed Dec. 30, 1920. Serial No. 434,098. 4 Claims. (Cl. 100—41.)



1. In a device of the character described, coacting presser bars consisting of sections, hinged connections for independently connecting said sections to constitute

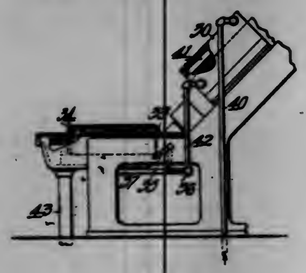
pairs, a hinge connection for pivotally connecting said pairs of sections together, said presser bar sections having cooperating recesses and protuberances, a cutting blade for each pair of presser bar sections having a plurality of perforations therein to permit of the discharge of the expressed juice, and guiding means for said presser bar sections including a stud and recess, and guide strips and slots.

1,457,479. METHOD OF INCREASING THE YIELD OF OIL WELLS. EDSON R. WOLCOTT, Los Angeles, Calif. Filed Jan. 12, 1920. Serial No. 350,935. 8 Claims. (Cl. 166—21.)



8. The method of operating oil wells consisting of closing the top of a central well, pumping air into said well, producing combustion therein, and pumping the surrounding wells.

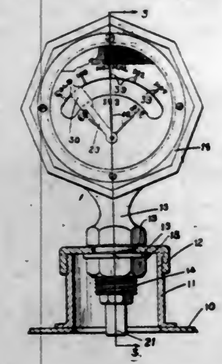
1,457,480. COOLING DEVICE FOR CURVED STEREOTYPE PRINTING PLATES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Sept. 16, 1913, Serial No. 790,072. Divided and this application filed Dec. 15, 1917, Serial No. 207,337. Renewed Nov. 16, 1922. 7 Claims. (Cl. 29—21.)



1. The combination of a cooling device arranged to receive plates and having tracks for supporting the plates, and means adjacent to said tracks for holding the plates in fixed position while being cooled.

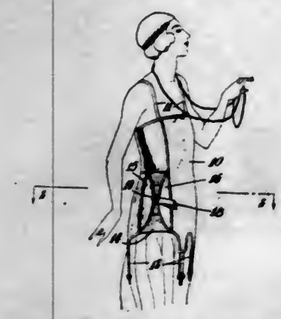
1,457,481. MOTOR METER. HAROLD A. ADAMS, Bakersfield, Calif. Filed Oct. 6, 1921. Serial No. 505,741. 7 Claims. (Cl. 73—52.)

7. In a motor meter, a tubular base member provided on its under surface with teeth adapted to engage the cap of a filling nipple, means cooperating with said toothed surface to secure said base member to said cap, a ring integral with said base member and serving as the main frame of said motor meter, opaque plates secured to said ring at opposite sides thereof to form therebetween a chamber for a Bourdon tube and operating parts connected therewith, both of said plates being provided with arcuate slots opposite one another, glass plates corresponding in size and shape to said opaque plates and



being located externally of said opaque plates, one of said glass plates being spaced from the corresponding opaque plate, and said opaque plate being provided with an aperture, a shaft extending through said aperture and communicating with said operating parts, and an indicating pointer on said shaft and between said opaque plate and said glass plate, said pointer being covered by a luminous paint and provided with an expanded end extending completely across said slots.

1,457,482. CORSET CONSTRUCTION. JACOB L. ALBERTS, New York, N. Y. Filed May 18, 1922. Serial No. 561,845. 5 Claims. (Cl. 2—73.)

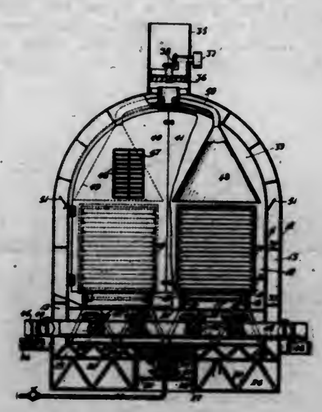


3. A corset comprising a body, elastic inserts in the sides thereof, elastic elements of greater tensional resistance than the said inserts having one edge secured to the said body and spaced laterally from the sides of said inserts, inelastic flaps secured to the said elastic elements, and means for drawing said inelastic flaps together.

1,457,483. DESICCATOR. EDWARD D. ARIAN, San Francisco, Calif., assignor, by direct and mesne assignments, of one-third to Charles P. Thomas, San Francisco, Calif., and one-third to Frank J. Rich, San Francisco, Calif.; Frank J. Rich administrator of said Charles P. Thomas, deceased. Filed Sept. 29, 1919. Serial No. 327,069. 9 Claims. (Cl. 34—39.)

1. A desiccator having a drying compartment within which material to be dehydrated may be placed, means for

producing a circulation of heated air around said compartment without passing therethrough, means for conveying fresh air into the drying compartment and distributing it uniformly thereover, and means for completing the circulation of said fresh air through the drying

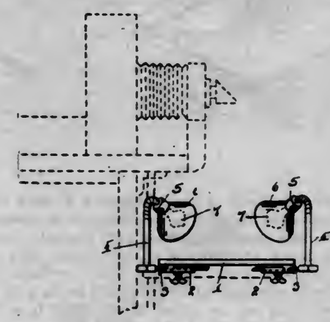


compartment, said means including a false foraminous floor, a plurality of intersecting fresh air pipes beneath said floor with controlling registers, conical discharge domes above the drying compartments, conducting pipes therefrom, and a connected suction fan.

1,457,484. METHOD OF PURIFYING ACID LIQUOR. FREDERICK C. ATKINSON, Indianapolis, Ind. Filed May 27, 1919. Serial No. 300,129. 4 Claims. (Cl. 260—122.)

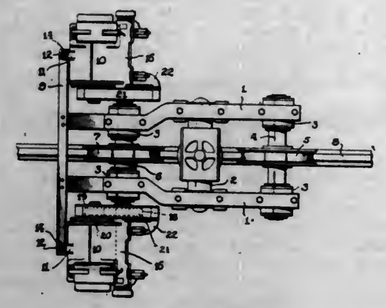
4. The process of removing impurities from acetic acid liquor obtained by the destructive distillation of cellular vegetable matter which consists in subjecting said liquor to contact with animal matter embodying parts of an animal carcass in their natural state having an affinity for said impurities.

1,457,485. METHOD AND APPARATUS FOR ILLUMINATION. WEBB W. AYRES, Rochester, N. Y., assignor of three-eighths to Richard Walter White and two-eighths to Ambrose A. Merry, both of Rochester, N. Y. Filed Dec. 8, 1919. Serial No. 343,359. 7 Claims. (Cl. 240—2.)



1. In an illuminating system for a copying camera, the combination of a copy board, a series of lights grouped around said copy board and mounted concentrically thereto, reflectors for said lights, said reflectors reflecting the light rays from said lights across said board at an angle to the line of projection of the lens of the camera, said lights and their reflectors being located adjacent to the board and between the board and the lens of the camera.

1,457,486. MOTOR SUSPENSION. OLIVER E. BARTHEL, Detroit, Mich. Filed Dec. 4, 1920. Serial No. 428,215. 12 Claims. (Cl. 105—133.)



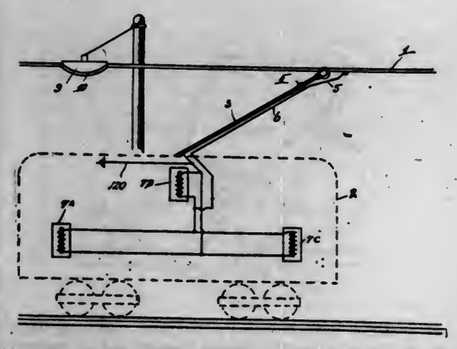
1. The combination of a monorail truck having wheels, a wheel axle extending from the sides of said truck frame, an end frame on said truck frame, and operating means supported by said end frame and wheel axle and adapted to drive said axle.

1,457,487. GRINDING MILL. JOSEPH S. BARTLEY, Denver, Colo. Filed Apr. 5, 1919, Serial No. 287,706. Renewed Aug. 19, 1922. Serial No. 583,037. 9 Claims. (Cl. 83—9.)



1. A mill of the character described having a shell provided with longitudinal channels on its inner surface, and a lining composed of flanged sections which meet within the channels.

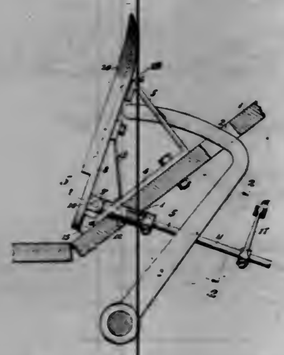
1,457,488. ZONE-FARE SYSTEM. CHARLES R. BARNES, Rochester, N. Y. Filed Aug. 27, 1919. Serial No. 320,204. 7 Claims. (Cl. 235—31.)



1. In a zone fare system, the combination of a plurality of registers mounted in a car, said registers indicat-

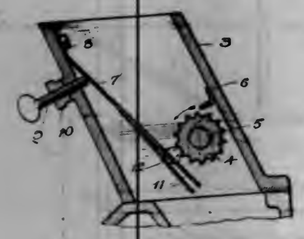
ing successive zones, means for causing said registers to change their indication as the car moves from one zone to another, one of said registers being adapted to print a ticket for a passenger with the number of the zone in which he boarded the car, the other register being adapted to print the ticket with the number of the zone in which he left the car.

1,457,489. COMBINED FOOT BRAKE AND ACCELERATOR CONTROL MECHANISM FOR AUTOMOBILES. THEODORE V. BARTON, New York, N. Y. Filed May 3, 1922. Serial No. 558,180. 5 Claims. (Cl. 74—81.)



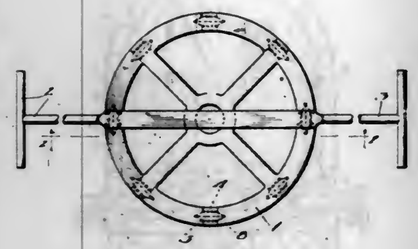
1. In an automobile, the combination with braking and accelerator mechanism, of a foot pedal movable in two distinct planes for operating the brake mechanism and accelerator mechanism respectively, means whereby the pedal cooperates with the brake mechanism when it moves in one plane, means whereby the pedal cooperates with the accelerator mechanism when it moves in the other plane, and means for locking the pedal against movement in either plane when it is moved in the other plane, substantially as set forth.

1,457,490. FEEDER FOR MILLS. JOHN W. BARWELL, JEROME WARD, NICOLAY NELSON, JOSEPH HINCHER, WALTER E. BOOTH, and WILBUR L. BLOWS, Waukegan, Ill., assignors to Blatchford Calf Meal Company, Waukegan, Ill., a Corporation of Illinois. Original application filed Apr. 17, 1919, Serial No. 290,273. Divided and this application filed Jan. 18, 1922. Serial No. 530,030. 2 Claims. (Cl. 83—44.)



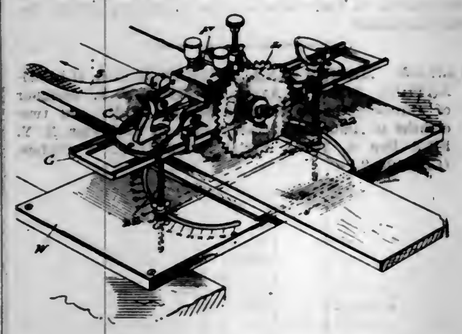
1. A hopper having therein a rotatable feed roller with longitudinally extending pockets therein and a resilient plate rigidly secured at its upper end to an inner face of said hopper and having a body portion with spring fingers at its lower end and means for adjusting the said plate so as to regulate the distance of said fingers from said feed roller.

1,457,491. TOOL FOR CUTTING GLASS WHILE IN A PLASTIC STATE. DANIEL S. BEEBE, Oak Park, Ill., assignor to The Vitrolite Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Jan. 8, 1921. Serial No. 435,791. 6 Claims. (Cl. 49—15.)



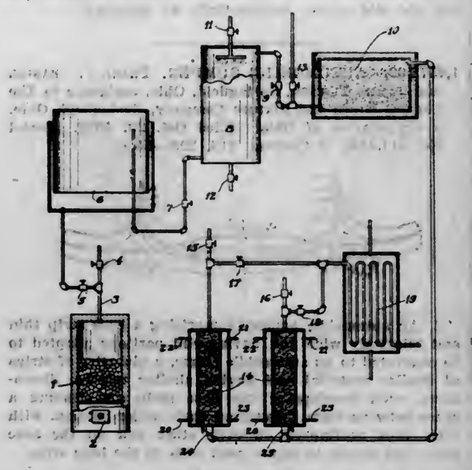
3. A cutting tool for glass comprising a frame in the form of a ring having radial stiffening arms extending across the same, and a series of small cutting wheels mounted in a circle on the under side of the ring so as to rotate about axes forming radii of said circle.

1,457,492. UNIVERSAL WOODWORKING TOOL. JAMES HENRY BLOODGOOD, Tampa, Fla., assignor to J. M. Baker and H. L. Dolive, both of Tampa, Fla. Filed June 2, 1921. Serial No. 474,351. 4 Claims. (Cl. 143—6.)



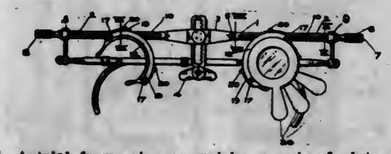
1. A woodworking device comprising a work table, a guiding platform adapted to be supported in spaced relation above said table, supporting rods pivotally connected to the platform adjacent its opposite ends, said rods in movable relation with the table being vertically adjustable therethrough and laterally adjustable in arcs, whereby the platform can be adjusted vertically in a vertical plane, transversely in a horizontal plane, or tipped transversely to any angle between vertical and horizontal, and whereby a free passage for work on the work-table between such adjusting means is provided, and a tool carriage body mounted for reciprocating movement on said platform.

1,457,493. PROCESS OF MAKING PHOSGENE. DONALD B. BRADNER, Edgewood, Md. Filed Jan. 11, 1922. Serial No. 528,551. 5 Claims. (Cl. 260—166.)



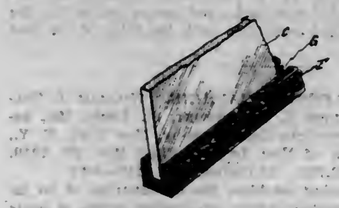
1. In a process of making phosgene, treating chlorine with a mixture of CO highly diluted by inert gas and then subjecting the gaseous product to the action of an adsorbent for removing the phosgene from the other gases.

1,457,494. TRIAL FRAME. LUCIAN W. BUGBEE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 18, 1917. Serial No. 207,709. 13 Claims. (Cl. 88—20.)



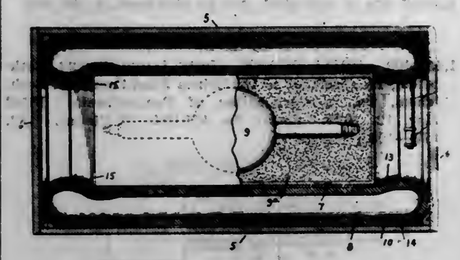
1. A trial frame ring comprising a pair of plate members of substantially circular form having central apertures formed therethrough and having the edge defining the aperture and the peripheral edge each bevelled, and means for securing a pair of plates together with their bevelled sides toward each other whereby an inner lens receiving groove and an outer frame receiving groove is provided in the completed trial lens cell.

1,457,495. RUNWAY FOR GLASS. HORACE H. BUGGIE, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed June 19, 1920. Serial No. 390,244. 3 Claims. (Cl. 266—44.5.)



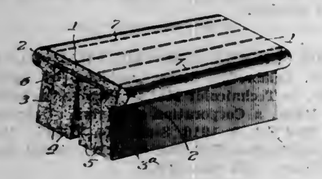
1. A window runway comprising a strip of fibrous yieldable material, having a longitudinal channel therein for receiving the edge of a window glass, said channel being formed in the strip.

1,457,496. PACKING RECEPTACLE. HENRY E. BUTLER, Schenectady, N. Y. Filed Dec. 27, 1920. Serial No. 433,085. 6 Claims. (Cl. 206—62.)



1. A packing receptacle for fragile articles comprising a double walled envelope open at one end to receive a fragile article, the inner wall of said envelope being formed of rubber and adapted to extend beyond the end of the article whereby when the envelope is inflated it will bulge over the end of the article to hold it against movement.

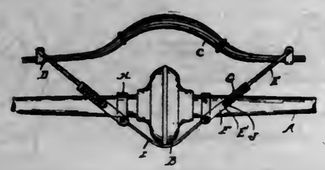
1,457,497. ERASER. FRED E. CARDY, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 489,983. 6 Claims. (Cl. 15—223.)



1. An eraser having its body formed of a plurality of connected parts, each of which is laminated, said parts being arranged side by side and in contact with one another, and stitching passing transversely through each of said parts without passing through any other part.

6. An eraser comprising a back formed of a piece of material which is bent along its edges to form the outer sides of the eraser body and strips arranged between said side strips, said intermediate strips being divided into two groups and the strips of each group being separately stitched to the adjacent side strip, other stitching passing through the eraser back and engaging the aforesaid stitching, and a stiffening member interposed between the back and said intermediate strips and held in place by said last mentioned stitching.

1,457,498. STABILIZER FOR MOTOR-VEHICLE SPRING SUSPENSIONS. WILLIAM R. COCHRAN, Detroit, Mich., assignor of four-fifths to Daniel P. Cassidy, John G. Cross, Thomas W. Parker, and S. Waldeman Sorensen, all of Detroit, Mich. Filed May 10, 1922. Serial No. 559,705. 4 Claims. (Cl. 267—28.)



1. The combination with an axle and a spring arranged parallel thereto, of a stabilizer comprising clips respectively secured to the spring and the axle, an

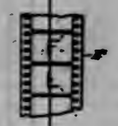
obliquely inclined rod extending between said clips and pivotally engaging the same, and a spring sleeved upon said rod having its opposite ends respectively bearing against one of said clips, and an abutment on the rod.

1,457,499. DRILL SHANK. JOHN JAMES COFFEY, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1921. Serial No. 451,694. 9 Claims. (Cl. 279—103.)



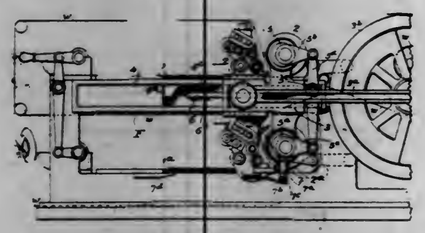
1. A shank for drills comprising a tapered portion integral with the drill adapted to fit in the conical end of the collect or driving member and having in its end a transverse groove of greater width below its top than at the top, and a detachable similarly tapered portion or member having a transverse tang or tongue on its larger end adapted to enter said groove from its end and to closely fit the same and prevent relative rotary or longitudinal movement of the portions and a tang on the smaller end adapted to engage the driving member to prevent turning.

1,457,500. CINEMATOGRAPHIC FILM. DANIEL F. COMSTOCK, Cambridge, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Original application filed Feb. 9, 1916, Serial No. 77,237. Divided and this application filed Oct. 6, 1920. Serial No. 415,074. 44 Claims. (Cl. 88—19.5.)



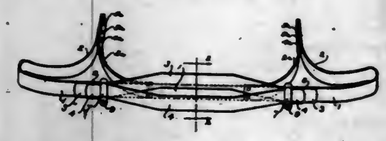
1. A cinematographic film having a plurality of series of images, the images of the respective series being complemental to each other, the images of certain series having certain corresponding sides directed in the same direction and other corresponding sides directed in different directions.

1,457,501. IMPRESSION THROW OFF AND ON DEVICE FOR TRAVELING-CYLINDER PRESSES. PAUL F. COX, Chicago, Ill. Filed Aug. 27, 1921. Serial No. 495,872. 21 Claims. (Cl. 101—283.)



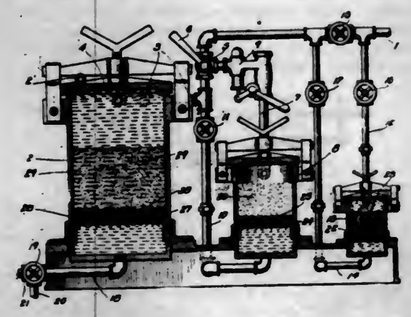
1. In a printing press, a bed, a cylinder, reciprocating crossheads carrying the cylinder, guideways for said cross heads in the main frame of the press, means for raising and lowering the cylinder carried by the crossheads, and cams in the guideway for alternately actuating the said means, substantially as described.

1,457,502. AUTOMOBILE BUMPER. PEARL P. CRABILL and JAMES TURNER, Springfield, Ohio, assignors to The Central Brass and Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 29, 1921. Serial No. 511,413. 4 Claims. (Cl. 293—55.)



2. An automobile bumper comprising a base strip thin and relatively wide and having end portions adapted to be connected to an automobile frame, a plurality of strips of similar material and having similar relative dimensions, each overlapping the base strip and leaving a space between them throughout their major portion, with their ends overlapped on each other and on the base strip, and means to secure such ends to the base strip.

1,457,503. METHOD OF AND APPARATUS FOR THE PURIFICATION OF WATER. WALTER M. CROSS, Kansas City, Mo., assignor to Myrtle B. Cape, Wilmette, Ill. Filed May 26, 1920. Serial No. 384,301. 7 Claims. (Cl. 210—24.)

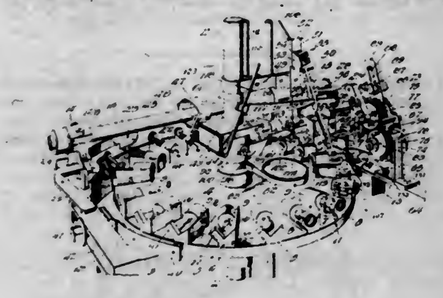


1. An apparatus for treating water comprising a receptacle having an inlet and an outlet, a glauconite bed in said receptacle, a second receptacle having an inlet and an outlet, a calcium hypochlorite bed in said receptacle through which liquid flows from the inlet to the outlet, means for connecting the outlet of the second receptacle with the inlet of the first receptacle, a third receptacle, a saline bed in the third receptacle, a water inlet for the third receptacle, and means connecting the outlet of the third receptacle with the inlet of the first receptacle.

1,457,504. SOLDERING MACHINE. WILLIAM J. CULLEN and WALTER L. RUTKOWSKI, St. Louis, Mo., assignors to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 20, 1919. Serial No. 283,785. 25 Claims. (Cl. 113—59.)

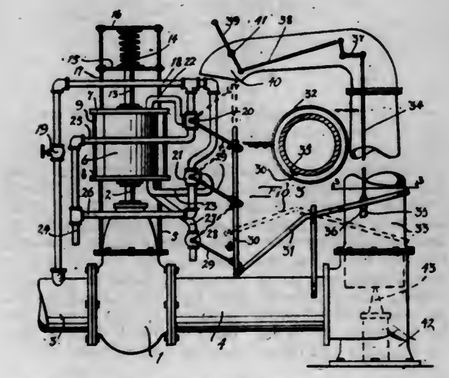
1. In a soldering machine, the combination of an intermittently movable carrier, an endless series of seats and retaining members arranged along said carrier for holding pairs of separate articles in contact with each other to be soldered together, said seats being arranged to permit both of said articles to gravitate one above

the other and to arrest the same when in alined position, and means for feeding solder intermittently to the joint



between the articles of said pairs after they are positioned on said seats and as they are presented by the movement of said carrier.

1,457,505. WATER-CONTROLLING DEVICE. THOMAS CURRAN, Streator, Ill. Filed Sept. 22, 1921. Serial No. 502,484. 1 Claim. (Cl. 137—139.)



The combination with a gate valve having a valve stem, a water main connected with the valve, and a spring for exerting a downward pressure upon said valve stem to yieldably close said vale, of a cylinder disposed adjacent to said valve, a piston within said cylinder, a rod connecting said piston with said valve stem, a valve having three ports, one port connected with said water main, another communicating with the interior of said piston at its upper end, and the third connected with a discharge pipe, a second valve having three ports, the first port being connected with said water main, the second port communicating with said cylinder at its lower end, and the third port communicating with said discharge pipe, a third valve having one port communicating with the lower end of said cylinder, and the others with a discharge pipe, and means for actuating said valves simultaneously, whereby water may enter from said main into the upper portion of said cylinders to cause said piston to move downwardly, and water within said cylinder may be discharged through the two remaining valves associated with the lower end of the cylinder to cause said gate valve to close.

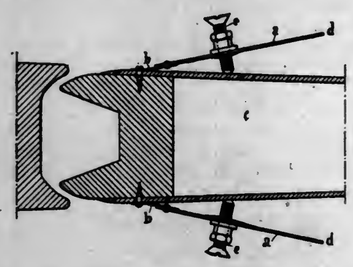
1,457,506. STOVE. LEWIS C. DANNREUTHER, Oklahoma, Okla. Filed Dec. 21, 1921. Serial No. 523,999. 2 Claims. (Cl. 126—39.)

1. A combined heating and cooking stove, embodying a cabinet provided with a baffle plate dividing the same into upper and lower compartments, a depending flange at the front of said baffle plate, burners in the upper part of the upper compartment, and a burner in the lower compartment situated at a distance from the front



thereof, whereby the air is drawn into the lower compartment up and around the burner therein and out beneath said depending flange and into the lower portion of the upper compartment.

1,457,507. METHOD PERMITTING TO REGULATE AND ADJUST THE DYNAMIC CHARACTERISTICS OF SURFACES MOVING THROUGH A FLUID. GUSTAVE DELAGE, Paris, France, assignor to Societe Anonyme des Etablissements Nieuport, Issy-les-Moulineaux, Seine, France. Filed Oct. 6, 1920. Serial No. 415,134. 1 Claim. (Cl. 244—29.)



In a flying machine, the arrangement at any suitable point, on the surfaces subjected to aerodynamic reactions, of metallic strips inclined with respect to said surfaces, flexible plates on the edges of the metallic strips, on the one hand, and on the wing surfaces on the other hand; nuts attached on said metallic strips, screws passing through said nuts and bearing on the wing surface to permit of modifying the inclination of the metallic strips.

1,457,508. FOUNTAIN SOLDERING TOOL. ALEXANDER DELLMAN, Mount Clements, Mich. Filed May 16, 1921. Serial No. 470,146. 15 Claims. (Cl. 219—27.)

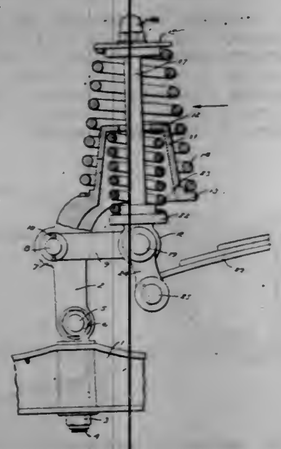
11. In a fountain soldering tool, a sheathing tube, a solder-containing chamber in the form of a barrel provided at each end with collars, an electric resistance element wound about the soldering tube but having its

windings of less diameter than the said collars, a tip communicating with the solder-containing chamber and



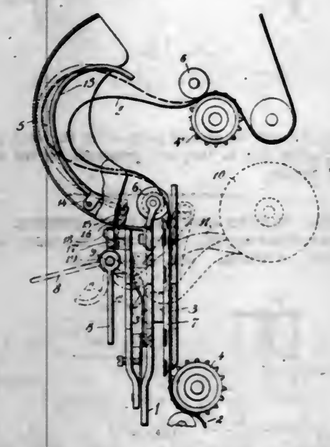
provided with a discharge orifice, and means for controlling the flow of the solder through the discharge orifice.

1,457,509. SHOCK-ABSORBING APPARATUS FOR VEHICLES. OLIVER P. EDWARDS, Leipsic, Ohio. Filed Mar. 1, 1922. Serial No. 540,303. 4 Claims. (Cl. 267—29.)



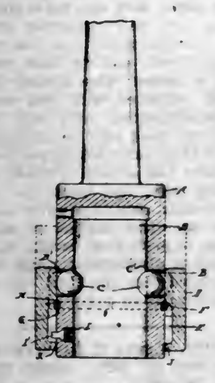
1. In combination, a stanchion mounted on an axle, a supporting plate thereon, an elongated hollow frusto-conical projection on said plate having a cap thereon with an aperture in the center thereof, a conical resilient element mounted on said plate and having its lower portion surrounding said conical member, a suspension member within said conical resilient element passing through said aperture, a plate on the top of said suspension member, and means for retaining it thereon, said plate being adapted to prevent the shifting of the top of the resilient element with reference to the suspension member, a second plate on the other end of said suspension member, a second resilient element interposed between the bottom of the cap member of the conical member and said plate on the bottom of the suspension member, said second resilient element being housed for the greater portion of its length within the conical member and thus within the lower portion of the first resilient member, and means for connecting a leaf spring pivotally to the bottom of said suspension member.

1,457,510. AUTOMATIC FIRE SHUTTER FOR MOVING-PICTURE MACHINES. WILLIAM ELLWOOD, Hempstead, N. Y., assignor to Nicholas Power Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1921. Serial No. 464,591. 3 Claims. (Cl. 88—17.)



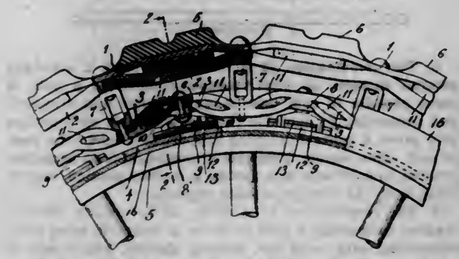
3. In a projector for motion pictures comprising a film driving mechanism, a shaft provided on the body of the projector, a shutter hinged to said shaft and normally held in a raised position, means cooperating with the film for releasing the holding means for said shutter whenever the motion of said film becomes arrested without simultaneous stopping of the driving mechanism, thereby allowing the shutter to drop into closed position with the apparatus otherwise undisturbed, said shutter and its actuating mechanism being mounted directly upon the projector and as an essential part thereof.

1,457,511. TOOL HOLDER. EDWIN R. EVANS, Detroit, Mich., assignor of one-half to B. F. Everitt, Detroit, Mich. Filed Apr. 20, 1921. Serial No. 462,988. 7 Claims. (Cl. 279—75.)



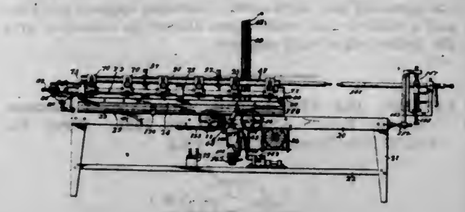
1. A tool holder having a socket opening in an end thereof and formed with an opening through the wall of said socket, a locking member engaging in said opening, a sleeve embracing said holder, having a portion of its interior face substantially conforming to the exterior face of the holder, and registrable with said opening in one limiting position of said sleeve, to project said locking member into said socket, and having another portion of its interior face formed with an annular channel registrable with said opening in the other limiting position of said sleeve to permit retraction of said locking member, and a split ring within said channel of the sleeve, limiting sliding movement thereof, said ring engaging in an annular groove of the holder, having one side gradually inclined to the exterior face of the holder to permit forcing of said ring out of said holder upon subjection of said ring to a sudden impact by the sleeve.

1,457,512. RESILIENT TIRE. ETHELBERT FAVARY, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,407. 9 Claims. (Cl. 152—1.)



6. In combination with a wheel, a resilient tire embodying a plurality of circumferential bands, a plurality of rigid supports interposed in spaced relation to each other between the several bands and between the innermost band and the wheel and maintaining the bands under tension in a longitudinal direction, and thin sheets of rubber situated between the innermost supports and the wheel to lend slight added resiliency to the whole.

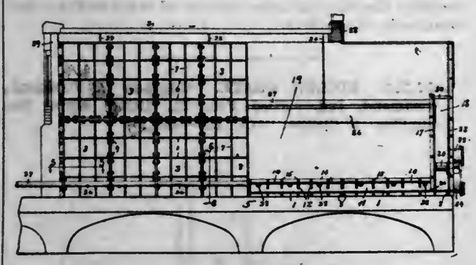
1,457,513. ELECTRIC WELDING MACHINE. JOSEPH W. FAY, Milwaukee, Wis., assignor to Fred Pabst Company, a Corporation of Wisconsin. Filed Apr. 10, 1920. Serial No. 374,817. 43 Claims. (Cl. 219—8.)



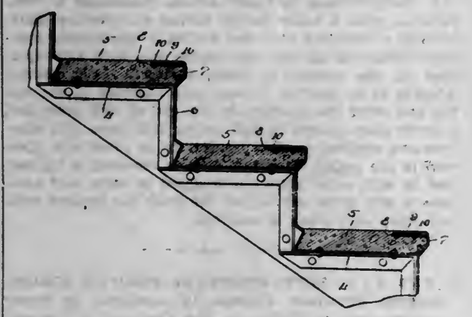
1. In a welding machine a frame, an electrode support slidably mounted on said frame, a work support slidably mounted on said frame, driving means, friction operable means operatively connecting said electrode support with said driving means, and friction operable means operatively connecting said work support with said driving means.

1,457,514. FILTRATION CHAMBER. JOHN W. FLOWER, Detroit, Mich., assignor, by mesne assignments, to Michigan Valve Foundry and Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 12, 1921. Serial No. 514,771. 8 Claims. (Cl. 210—130.)

7. In a filtration unit, the combination of a rectangular chamber having its bottom and sides formed of panels, a false bottom in said chamber consisting of perforated plates, an air main consisting of sections constituting portions of the panels of one of the sides of the chamber, and distributing pipes extending transversely to said air main beneath said perforated plates.

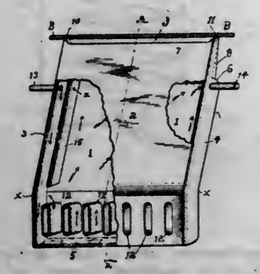


1,457,515. STAIR CONSTRUCTION. PAUL FRISCH, Chicago, Ill. Filed June 25, 1921. Serial No. 480,307. 4 Claims. (Cl. 72—96.)



1. In a stairs construction, the combination of a moulding member for the front edge of the step, having a rearwardly extending flange of substantially the same width as the safety tread, a safety tread secured to said flange and a filling of concrete or the like forming the main portion of the step and having its upper surface substantially flush with the safety tread.

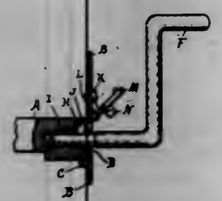
1,457,516. BOILER MAGAZINE FRONT. CHARLES C. FULGHUM, Richmond, Ind. Filed Feb. 21, 1921. Serial No. 446,882. 3 Claims. (Cl. 122—212.)



1. A boiler magazine front comprising a flat container, an inlet near the top and at one side of the device, an outlet opposite to said inlet, means for causing the circulation to pass downward from the inlet and then upward to the outlet, a flange extending the full length of and upward from the upper edge of the container,

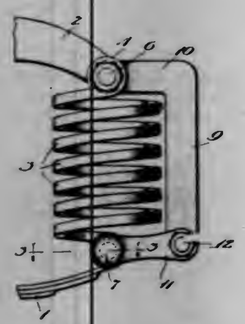
means for preventing the upper edge of the flange from contacting an element located thereabove, and flues extending through the lower portion of the container, substantially as set forth.

1,457,517. BOILER GRATE. CHARLES C. FULGHUM, Richmond, Ind. Filed Feb. 21, 1921. Serial No. 446,883. 2 Claims. (Cl. 126—169.)



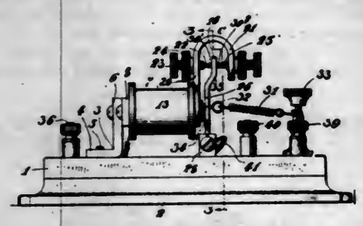
1. Improvements in boiler grates, comprising in combination with a boiler casing having an aperture therethrough a rotatable grate bar having a non-circular aperture formed in its end and registering with said aperture in the casing; a crank having a stem portion adapted to be inserted through said aperture in the casing and enter the aperture in the end of said grate bar, a cover plate hinged to said casing and above said aperture and adapted to close by gravity to cover said aperture in the casing when said stem is removed, a lug carried by said cover plate and adapted to enter said aperture in said grate bar to lock the grate bar against rotation when said crank is removed.

1,457,518. SUPPLEMENTARY VEHICLE SPRING. SAMUEL FURMIDGE, Chicago, Ill., assignor, by mesne assignments, to William E. Dee Company, a Corporation of Illinois. Filed Nov. 13, 1920. Serial No. 423,838. Renewed Jan. 6, 1923. 9 Claims. (Cl. 267—29.)



1. The combination with a main spring and a member adapted to be cushioned thereby, of a coil spring arranged between said main spring and said member and connected thereto at its ends, a U-shaped steadying device embracing said coil spring, the free end of one arm of said steadying device being pivotally connected to said member at the point of attachment between the latter and the coil spring, the free end of the other arm of said steadying device being pivotally connected to the main spring at the point of attachment between the latter and the coil spring, said U-shaped device being made in two parts pivotally connected together.

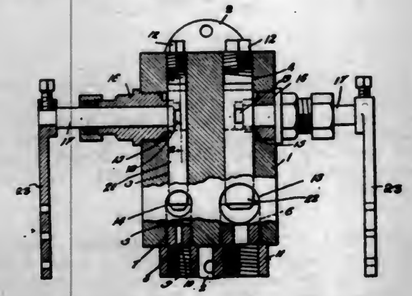
1,457,519. ELECTROMAGNETIC APPARATUS. GEORGE FUSSNER, Menominee, Mich., assignor to Signal Electric Mfg. Co., a Corporation of Michigan. Filed July 7, 1920. Serial No. 394,487. 16 Claims. (Cl. 200—87.)



3. The combination in a relay of a base, a standard secured thereon, an electromagnet comprising a pair of cores parallel to said base mounted upon said standard and projecting to one side thereof, solenoids surrounding said cores, a contact-carrying support secured to the ends of said cores remote from said standard, and an armature pivoted to said base and having a contact portion cooperating with the contact on said support.

6. The combination in a relay, of a base, an electromagnet comprising a pair of cores, a magnetic cross piece connecting said cores and secured thereto, and a pair of solenoids surrounding said cores with one end adjacent said cross-piece, a sheet metal standard supporting said electromagnet upon said base, said standard comprising a vertical portion secured to said cross-piece, and a horizontal portion extending from said vertical portion in a direction opposite to that of said cores and secured to said base, said cores projecting beyond the ends of said solenoids remote from said standard, a sheet metal contact-carrying support provided with openings embracing the projecting ends of the cores with a friction fit, said support extending upwardly from said cores and having its free end extending downwardly, an armature pivoted to said base adjacent said projecting core ends and having an integral tongue at its upper end extending between the upwardly and downwardly extending support portions, and a contact upon said tongue aligned to cooperate with the contact upon said support.

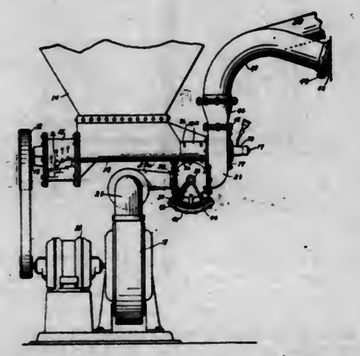
1,457,520. OIL REGULATOR. ALEXANDER T. GARDEN, Augusta, Kans. Filed Aug. 29, 1921. Serial No. 496,711. 3 Claims. (Cl. 277—2.)



2. A regulator of the class described including a body having parallel bores, there being ports opening into the respective bores, combined plugs and valve seats closing the bores at one end and having openings therethrough,

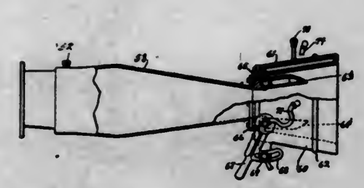
plugs closing the other ends of the bores, plungers within the respective bores and constituting valves, oppositely extending shafts, means for rotating them, and cooperating means upon the shafts and the respective plungers for transmitting motion from the shafts to the plungers.

1,457,521. POWDERED-COAL APPARATUS. AUBREY J. GRINDLE, Chicago, Ill., assignor to Grindle Fuel Equipment Company, a Corporation of Illinois. Filed July 29, 1919. Serial No. 314,136. 1 Claim. (Cl. 302—42.)



In a powdered coal apparatus, in combination, a fuel hopper, a feed screw at the bottom of said hopper, a shaft carrying the screw and extending beyond the same at its delivery end, a stationary ribbed plate surrounding the feed screw at its said delivery end, a second ribbed plate carried by and revolving with said shaft and adjustably spaced from said first named plate, a conduit enclosing said plates, means for producing a blast of air in said conduit about and between the plates and in a direction parallel with the plane of the plates, and means for adjusting the volume of air in said blast.

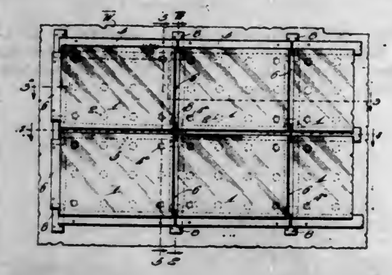
1,457,522. POWDERED-COAL APPARATUS. AUBREY J. GRINDLE, Chicago, Ill., assignor to Grindle Fuel Equipment Company, a Corporation of Illinois. Filed July 29, 1919. Serial No. 314,137. 8 Claims. (Cl. 110—104.)



1. In a powdered fuel feeder, in combination, a burner, a circular conduit adapted to have a blast of air and fuel passed therethrough, an expanding connection applied to the delivery end of the conduit for reducing the velocity of said blast and a flattened connection between said expanding connection and said burner.

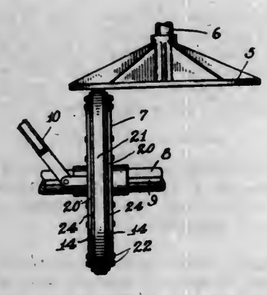
1,457,523. WALL FACING. DAVID HAMILTON, Greensburg, Pa. Filed Jan. 16, 1922. Serial No. 529,752. 4 Claims. (Cl. 72—19.)

1. A facing for walls or the like formed from a plurality of comparatively large tiles or blocks arranged in vertical and horizontal rows with their adjacent edges permanently spaced from each other to provide alined vertical and horizontal spaces, and a plurality of relatively smaller vertically and horizontally disposed tiles placed



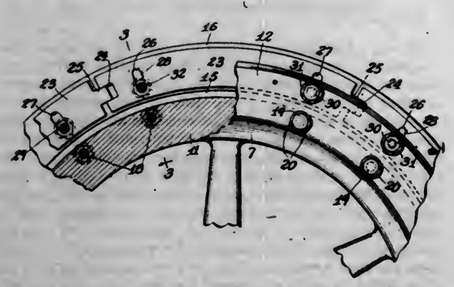
against the inner faces of the large tiles and extending across the spaces to render the small tiles visible through said spaces and to impart an artistic appearance to the facing.

1,457,524. FRICTION WHEEL. WILLIAM L. ISBILLS, Elizabeth, N. J. Filed Feb. 25, 1922. Serial No. 539,147. 5 Claims. (Cl. 74—26.)



5. A friction wheel of the class described provided with a removable unitary friction ring, means adjustably mounted on said wheel for reinforcing and supporting said ring and for extending the use of the friction facing thereof, and means movable transversely of said wheel and cooperating with the inner face of said ring for rigidly holding the same in predetermined position on said wheel.

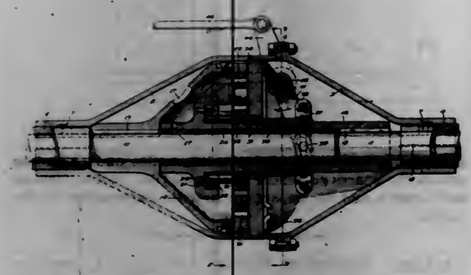
1,457,525. FRICTION WHEEL. WILLIAM L. ISBILLS, Elizabeth, N. J. Filed July 1, 1922. Serial No. 572,288. 16 Claims. (Cl. 74—26.)



1. A friction wheel of the class described provided with a friction ring, means adjustably mounted on said wheel

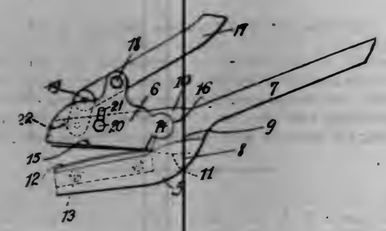
for reinforcing and supporting said ring and for extending the use of the friction facing thereof, and adjustable means adapted to operate upon the inner face of said friction ring for firmly holding and supporting said ring on said wheel.

1,457,526. SPEED-CHANGE GEAR. ERNEST W. JACKSON, Sausalito, Calif. Filed July 28, 1920, Serial No. 399,546. Renewed Mar. 3, 1922. Serial No. 540,938. 8 Claims. (Cl. 74—34.)



1. In a transmission mechanism a pair of alined shafts, an internal gear fixed on one of the shafts, a sleeve fixed on the other shaft, a pinion carried by the sleeve and in mesh with the internal gear, a second gear in mesh with the pinion and a slidable member for stopping the second gear or for locking it to the sleeve carrying the pinion.

1,457,527. CUTTING SHEARS. WILHELM JOHNSEN, New Brighton, N. Y., assignor to John Petterson, Brooklyn, N. Y. Filed Sept. 28, 1921. Serial No. 503,781. 1 Claim. (Cl. 164—46.)



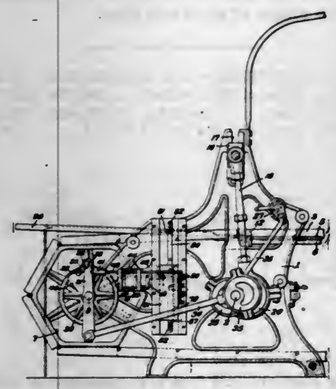
A pair of shears comprising a relatively stationary base member, a cutting blade removably secured thereto, said member being provided with an upwardly facing material guiding surface offset to one side of the cutting edge of said blade, a handle and a backing member integral with the said base member and provided with a downwardly facing material guiding surface offset to the opposite side of the said cutting edge, a movable cutting blade pivoted on said backing member in a recess therein, said backing member and movable cutting member and movable cutting blade being flush, a handle for operating said movable blade, a double link connection between said handle and said backing member, means for pivoting the movable cutting blade to said last named handle and a pin and slot connection between said backing member and said movable blade for guiding the latter.

1,457,528. GOLF-CLUB SHAFT. HARRY IVORY JORDAN, Auburn, Me. Filed Nov. 25, 1921. Serial No. 517,547. 1 Claim. (Cl. 46—4.)



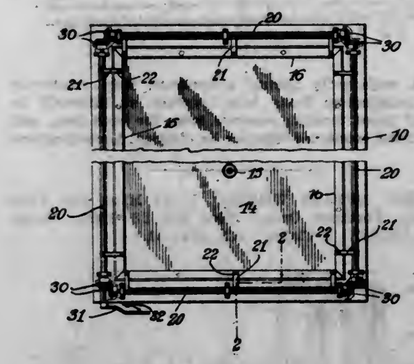
A shaft for golf clubs substantially the entire body of which is made up of a plurality of relatively thin layers of wood veneer cemented and compressed together with the grain of the wood in all the layers extending longitudinally of the shaft.

1,457,529. WIREBOUND-BOX MACHINE. HENRY J. KOCH, Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed Nov. 11, 1918. Serial No. 262,028. 28 Claims. (Cl. 1—8.3.)



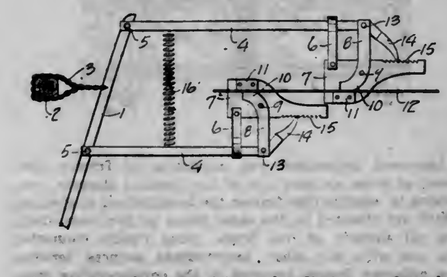
11. A machine for use in making wirebound boxes comprising, in combination, means including fastener-setting mechanism for applying binding wire to box parts, means including a ratchet feed device to cause relative progression between said mechanism and the work, and automatic staple-positioning means regulating the coaction of the ratchet members by breaking their engagement at selected times; said machine being adapted to operate without interruption on materials for a plurality of boxes.

1,457,530. BLUE-PRINT FRAME. VICTOR P. LARSEN, New York, N. Y., assignor to New York Blue Print Paper Co. Inc., a Corporation of New York. Filed Jan. 21, 1922. Serial No. 530,778. 1 Claim. (Cl. 95—76.)



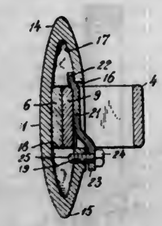
In a blue print frame, the combination with a main frame having side and end members for supporting a glass plate and a superposed rubber blanket for the purposes set forth, of a rock shaft journaled upon each frame member, a clamping member associated with each frame member, each clamping member comprising an upper clamping strip secured to move with the adjacent rock shaft, a second clamping strip hinged to said upper clamping strip and a third lower clamping strip carried by said second strip and adapted to move parallel thereto, all of said clamping strips having their adjoining end beveled, means for operating all said clamping members to bring the said third clamping strips into contact with the rubber blanket and cause said strips to meet to form mitered corners, and springs interposed between said second clamping strips and said third lower clamping strips for separately and individually forcing the latter into airtight contact with the said rubber blanket as and for the purpose set forth.

1,457,531. WIRE STRETCHER. EMERY F. LITTLE, Hudson, S. Dak. Filed Jan. 28, 1922. Serial No. 532,354. 1 Claim. (Cl. 254—81.)



A wire stretcher comprising a handle bar; a draw bar pivoted near each end of the handle bar; grip blocks having loops freely engaging the draw bars and having also ratchets on their outer edges and dogs on their side faces; grip levers pivoted to the sides of the grip blocks and having their ends pivoted to the ends of the draw bars, said levers having jaws coacting against the dogs on the grip blocks for gripping the wire; and pawls pivoted to the ends of the draw bars and adapted to engage the ratchets on the grip blocks.

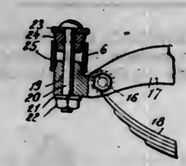
1,457,532. VEHICLE BUFFER DEVICE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Nov. 17, 1920. Serial No. 424,685. 6 Claims. (Cl. 293—55.)



2. The hollow cast metal vertically extending contact and clamping device adapted for use with spring strip automobile buffers and comprising a relatively flat front collision face and vertically extending reduced width contact ends, said contact device being formed with a lateral opening adapted to receive the buffer strips and formed with an adjacent clamping recess in the rear of said device and cooperating clamping means comprising a curved spring steel clamping tongue having an end adapted to lock within the contact device and a clamping bolt passing through a hole in the other end of said clamping tongue to force the same down into clamping engagement with a buffer strip.

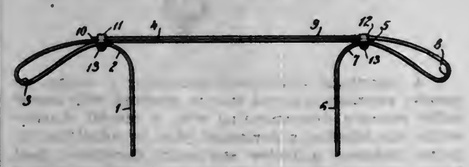
1,457,533. AUTOMOBILE BUFFER ATTACHER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Sept. 30, 1921. Serial No. 504,396. 18 Claims. (Cl. 293—55.)

7. The automobile buffer formed of resilient spring



strip and comprising a resilient buffer front portion, end loops and integral attaching members the end of each of said attaching members being bifurcated and bent-outwardly to form a nearly closed gripping attaching loop, and U-bolt fastening devices to contract said attaching loops so that they are adapted to yieldingly grip vertical frame end supports secured to the ends of the vehicle frame members adjacent the spring bolts.

1,457,534. RESILIENT FRONT BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Oct. 25, 1921. Serial No. 510,293. 11 Claims. (Cl. 293—55.)



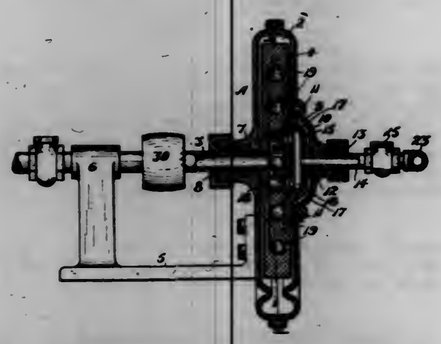
4. The automobile buffer comprising two spring steel strip members each having a substantially closed end loop and a rearwardly extending attaching member, one of said members having a front impact receiving portion extending inward from said loop to overlap and reinforce a transversely extending spring strip member of the buffer front and clamping devices to hold together said overlapping portions and the adjacent portions of said end loops.

1,457,535. NOZZLE. MERLE B. MCCUNE, Woodlawn, Pa. Filed July 2, 1921. Serial No. 482,155. 2 Claims. (Cl. 225—129.)



1. The combination with a nozzle of a collar adjustably mounted thereon, arms carried by said nozzle and being pivoted with respect thereto, angular extensions formed on the free ends of said arms said extensions extending in opposite directions and being provided with longitudinal slots, studs fixed to said nozzle and projecting through said slots whereby upon longitudinal adjustment of said collar said arms will be rocked upon their pivots to extend or fold said angular extensions with respect to the adjacent end of said nozzle substantially as described.

1,457,536. CENTRIFUGAL COMPRESSOR. DAVID A. MACLEAN, San Francisco, Calif. Filed Nov. 9, 1921. Serial No. 513,968. 3 Claims. (Cl. 230—14.)



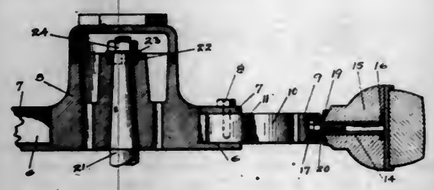
3. A centrifugal compressor comprising a casing, an impeller rotatably mounted therein provided with curved radial passages communicating with a central chamber within the impeller, a horizontal pipe for admitting air to the chamber, a hollow stationary distributor head having openings therein adjacent the periphery thereof and one wall of the chamber having openings therein to intermittently register with the openings in the distributor head, a horizontal pipe for admitting fluid to the distributor head, the adjacent walls of the chamber and distributor head changing the direction of travel of the fluid and air to direct air across the path of travel of the fluid, the said casing having an opening therein provided with a closure forming a journal bearing for one of the said pipes.

1,457,537. RAILWAY TIE. JAMES MACMARTIN, Albany, N. Y. Filed Aug. 8, 1921. Serial No. 490,511. 15 Claims. (Cl. 238—89.)



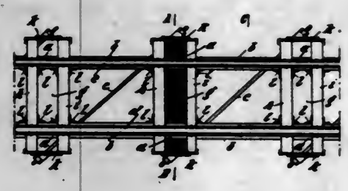
1. A railway-tie having a concrete body reinforced with longitudinal irons held together at intervals by twisted hoops forming separate loops for each iron, said loops being connected together by diagonal hoop-members.

1,457,538. SPRING WHEEL. LOUIS MARK and PETE BIALY, Portland, Oreg. Filed Oct. 28, 1922. Serial No. 597,687. 1 Claim. (Cl. 152—51.)



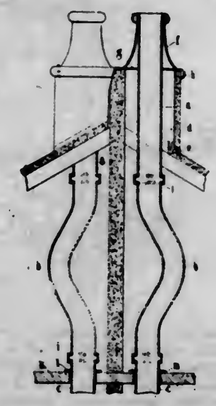
In a wheel: a hub having pockets therein; a felloe; an annular ring reinforcing said felloe within said felloe; outwardly curved spring spokes, each mounted within one of the pockets of said hub, each spoke having an inwardly curved end resting upon the outwardly curved portion of the adjacent spoke; a thimble mounted within said felloe respective to each of said spokes; a raised seat upon said annular ring for each of said spokes; and a bolt for each of said spokes, said bolt passing through the spoke and its raised seat upon said annular ring and being threaded into one of said thimbles.

1,457,539. PERMANENT WAY. MAX MATTHAEI, Cassel-Wilhelmshohe, Germany. Filed Apr. 12, 1922. Serial No. 551,993. 1 Claim. (Cl. 238—24.)



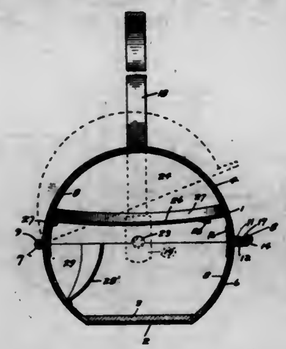
Improved permanent way consisting of frames composed of cross sleepers and of longitudinal sleepers comprising in combination frames the longitudinal sleepers of which are situated in the same plane as the cross sleepers, all sleepers of one frame being rigidly connected the one with the other, longitudinal sleepers between two adjacent frames inserted in the corresponding cross sleepers of said frames and situated in the same plane as these cross sleepers for determining the distance between the two frames so that of every two adjacent cross sleepers a twin cross sleeper is formed, a plate of sheet iron fixed to the bottom surfaces of the cross sleepers of each twin cross sleeper and masses of broken stone and gravel filled into the open cases formed by each twin sleeper and its bottom plate in order to produce heavy supporting points for the rails.

1,457,540. CHIMNEY FOR BUILDINGS OR OTHER STRUCTURES. JOHN FREDERICK MATTHEWS, Dover, England. Filed Jan. 4, 1922. Serial No. 527,029. 5 Claims. (Cl. 72—90.)



1. A building or other structure of the kind referred to in which each metal chimney is supported by suspending it from its upper end, substantially as described.

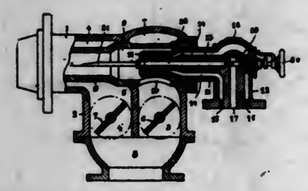
1,457,541. VANITY CASE. ALBERT C. MAYNARD, Berkeley, Calif. Filed Aug. 8, 1921. Serial No. 490,536. 5 Claims. (Cl. 220—20.)



5. A vanity case of spherical shape having a flat bottom and stabilizing means secured to the bottom and comprising a body portion and a cover portion, a hinge connecting the two portions, automatic clamping means for offering limited resistance to the opening of the case, a reflecting exterior surface, oppositely arranged hubs projecting from the case, flexible means pivotally secured to the hubs for supporting the case, an internal lid fitting snugly into the cover portion, a spring actuating the same tending to press it into the cover, and a notch in the lid by means of which it may be handled, a curved partition separating the body portion into two compartments.

1,457,542. GASIFYING BURNER FOR LIQUID FUEL. EMIL MENGES, Wiesbaden, Germany. Filed Aug. 3, 1921. Serial No. 489,615. 2 Claims. (Cl. 158—74.)

1. A gasifying burner for liquid fuel, comprising an outer casing, two chambers in the said outer casing, an air inlet pipe communicating with the said two chambers, regulating valves for controlling the communication between the said air inlet pipe and the said two chambers, a mixing chamber arranged inside the outer casing for the liquid fuel and atmospheric air, an orifice provided in tht wall of the mixing chamber communicating with one of the chambers that communicates with the air inlet pipe, a conduit for admitting fuel to the mixing chamber, an annular heating jacket surrounding the

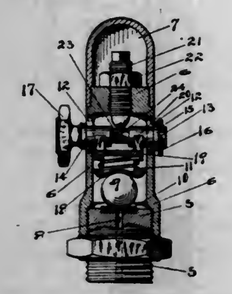


said fuel admission conduit, a screw spindle for regulating the feed of fuel to the conduit, means provided on the said spindle for operating it from the outside, a sprayer fixed on the inner end of the fuel admission conduit, the said sprayer comprising two tubular flattened nozzles having tapering ends for increasing the outlet speed of the fuel, surfaces extending from the nozzles and vertical partitions on the said surfaces for dividing up the fuel.

1,457,543. NITRATING AROMATIC HYDROCARBON. STUART P. MILLER and JOHN R. HESS, Philadelphia, Pa., assignors to The Barrett Company, a Corporation of New Jersey. Filed Mar. 8, 1920. Serial No. 364,145. 9 Claims. (Cl. 260—192.)

1. The herein described process of nitrating aromatic hydrocarbons solid at normal temperatures which comprises introducing said hydrocarbons in a molten state into a cool liquid and nitrating said hydrocarbon before removing it from said liquid.

1,457,544. SAFETY VALVE. ALFRED B. MYERS, Gates, Oreg. Filed Apr. 13, 1921. Serial No. 460,949. 4 Claims. (Cl. 137—53.)

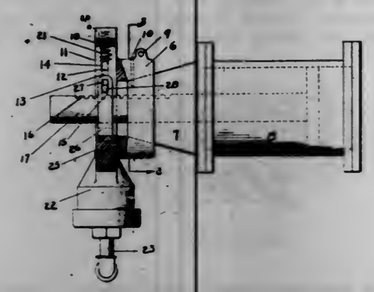


1. In a safety valve: a spring actuated valve; a screw to adjust the tension in the actuating spring of said valve; and means between said actuating spring and said screw to adjust the tension of said spring independently of said screw.

1,457,545. BRAKE RETAINER. ALFRED B. MYERS, Gates, Oreg. Filed Nov. 29, 1921. Serial No. 518,595. 6 Claims. (Cl. 303—89.)

1. An air brake cylinder for railroad cars in combination with gravity operated ratchetlike mechanism for

retaining the brakes in set position independently of the air pressure in said cylinder, and pneumatically operated releasing mechanism for said ratchetlike mechanism.



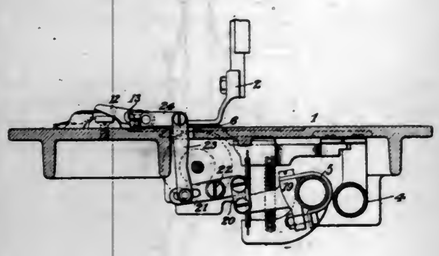
4. A brake retaining mechanism adapted to be mounted upon an air brake cylinder and to coact with teeth upon their air brake piston rod to retain the latter in set position, comprising a cylinder; a piston rod; vertical guides upon said cylinder; a dog; trunnions upon said dog operating within said guides; a yoke upon said latter piston rod adapted to embrace said first mentioned piston rod and to engage certain of said trunnions; a cap connecting the ends of said guides; and a spring intermediate said cap and said dog.

1,457,546. PUMP. TAKEO NAMURA, Walnut Grove, Calif. Filed June 29, 1921. Serial No. 481,243. 5 Claims. (Cl. 103—225.)



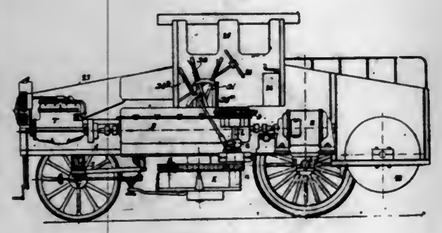
1. A pump comprising a cylinder; a piston reciprocal therein; a fluid compartment within said piston and having outlet openings passing through the side walls of the piston; piston rings circumscribing the piston and covering said openings; a tubular piston rod connected with the piston and communicating with the fluid compartment therein; and means within said piston rod for giving fluid in said compartment a desired pressure.

1,457,547. ATTACHMENT TO SEWING MACHINES. RAPHAËL NETTER, New York, N. Y.; Adelaide Follet Netter executrix of said Raphaël Netter, deceased. Filed May 17, 1921. Serial No. 470,336. 2 Claims. (Cl. 112—122.)



1. The combination with a sewing machine and a hem folding guide attached thereto, of a reciprocating knife located in advance of the needle and in a cut-away portion in the side of said guide back of the mouth of the same, and means driven by a moving part of the sewing machine for reciprocating said knife so that it will cut off from a fabric introduced into the guide a narrow straight edge strip.

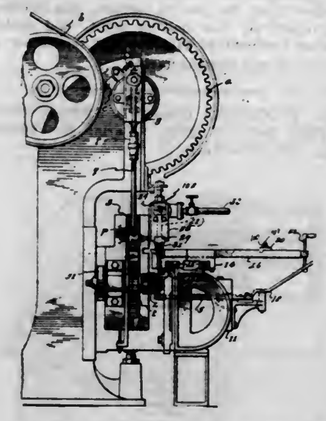
1,457,548. MIXED-DRIVING WINDLASS VEHICLE FOR TILLING PURPOSES. AMÉDÉE PETIT, Paris, France, assignor to Societe Generale Agricole, Paris, France. Filed June 23, 1919. Serial No. 306,270. 6 Claims. (Cl. 180—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The combination in a mixed driven tilling windlass vehicle having propelling wheels and a winding drum, of a heat engine and an electric motor mounted on said vehicle, a transmission mechanism arranged between said motor and engine and adapted to be connected independently to said motor or engine, and means connecting said mechanism to the motion-transmitting parts for propelling the vehicle in forward and rearward directions at different speeds, or for rotating said drum.

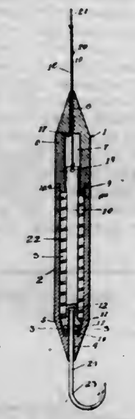
1,457,549. CURLING MACHINE. JOSEPH O. RICHARD, Detroit, Mich., assignor to Hayes Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 20, 1922. Serial No. 545,014. 12 Claims. (Cl. 153—49.)

1. In a curling machine, the combination of two pairs of vertically-operating dies for performing the initial curling operation on a knuckle blank, a die for finishing the curling operation on a preceding knuckle blank, the vertically-operating dies being arranged so that with the movement of the work through the dies one set of the



vertical dies become idlers when the work is moved through in one direction and active when the work is moved through in the opposite direction, and vice versa.

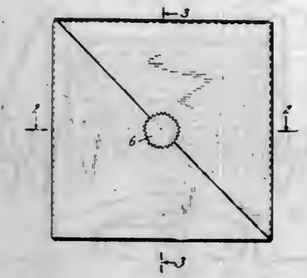
1,457,550. DETACHABLE FISHHOOK. GRANT A. RUNKEL, Lancaster, Pa. Filed Oct. 16, 1919. Serial No. 331,158. 3 Claims. (Cl. 43—28.)



1. In a device of the class described, a body; a hook-gripping means carried by the body; a fish hook held releasably by the hook-gripping means; and lines connected to the body and to the hook-gripping means, the line which is connected to the hook-gripping means being effective to release the hook-gripping means from the hook, when a fish has swallowed the body and the hook.

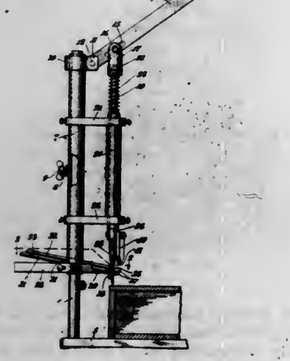
1,457,551. SAMPLE CONTAINER. FRANK CECIL SCHLITZER, Buffalo, N. Y., assignor to The Beaver Company, a Corporation of Ohio. Filed Oct. 30, 1920. Serial No. 420,589. 8 Claims. (Cl. 229—87.)

1. A wrapper for a body having rectangular faces, comprising a strip of material of a width corresponding to that of a face of the body and being creased intermediate its ends along a diagonal line arranged to place the portions of said strip at right angles to each other when said strip is folded along said crease; said portions being of sufficient length to pass around the body in directions at



right angles and to provide ends to be tucked beneath the fold provided on one face of the body by the folding of the strip along said diagonal line.

1,457,552. NAIL-DRIVING DEVICE. CHARLES SCHMIDT, Clifton, N. J. Filed Sept. 26, 1922. Serial No. 590,655. 3 Claims. (Cl. 1—10.)

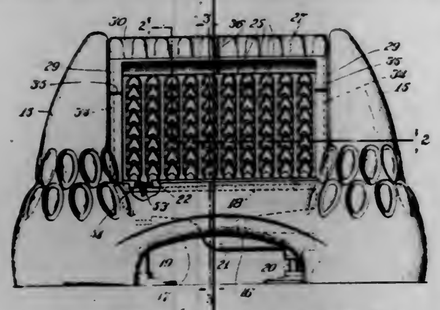


1. A nail driving device comprising a base adapted to support work parts, a column on said base, a sleeve adjustable on said column, a second sleeve supported at a spaced distance from the first sleeve, a driver rod slidable in the last named sleeve, means for actuating said rod, means for normally holding said rod in a raised position, an inclined trackway for feeding nails to said driver rod, spring actuating jaws for intercepting the nails in position to be driven, and means for opening said jaws co-incident with the downward movement of said driver rod.

1,457,553. GAS HEATER. GUSTAVE F. SCHMIDT, Chicago, Ill. Filed Dec. 27, 1921. Serial No. 524,941. 12 Claims. (Cl. 126—92.)

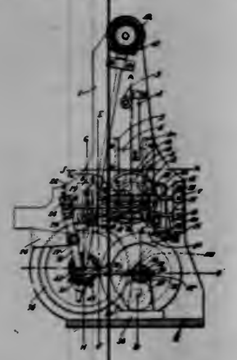
1. A gas heater of the character described, comprising a body unit provided with upstanding ends or columnar sides and an integral intermediate hollow base portion, the base portion being formed with a longitudinal burner-tip receiving opening, and a back-wall unit adapted to be disposed on said intermediate base portion of the body unit, the columnar sides of the body unit and said back-

wall unit being provided with interlocking surfaces for removably securing the back-wall unit in place, in com-



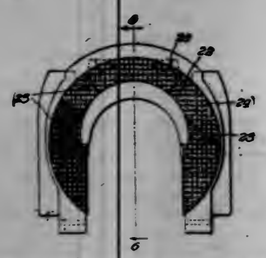
bination with radiant elements arranged along the front face of said back-wall unit and above said burner-tip receiving opening.

1,457,554. MOVING-PICTURE MACHINE. FRIEDRICH SEUFERT, Munich, Germany, and HERMANN SEUFERT, Brooklyn, N. Y. Filed Jan. 6, 1922. Serial No. 527,521. 4 Claims. (Cl. 88—18.)



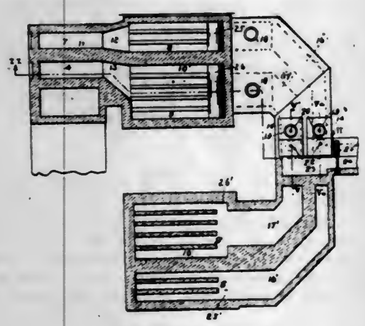
1. In a film feeding mechanism for a moving picture machine, the combination with a film drum spindle, of an eccentrically reciprocated set of rods, a slide having a socket and operated from said rods, a freely movable member having a pin engaging the socket of said slide, and means between said member and said spindle to couple the same when said pin is moved in a certain direction.

1,457,555. BEARING. JAMES H. SMITH, Chicago, Ill. Filed May 14, 1920. Serial No. 381,258. 4 Claims. (Cl. 64—10.)



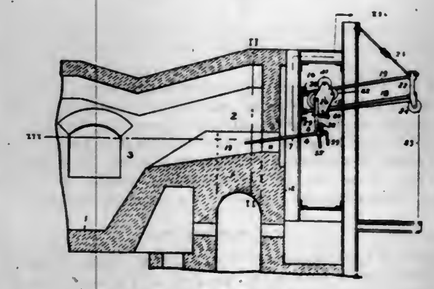
1. In combination, a bearing support of material having a relatively high melting point, a skeleton retainer fastened to said support and bearing metal completely covering said retainer, and having said retainer embedded therein, whereby said bearing metal completely shields said retainer from the bearing surface, said bearing metal having a relatively low melting point, said skeleton retainer being fastened to said support separately and independently of said bearing metal.

1,457,556. FURNACE. HORACE E. SMYTHE, Pittsburgh, Pa. Filed Feb. 28, 1921. Serial No. 448,684. 3 Claims. (Cl. 263—15.)



1. A furnace structure having a melting chamber, a preliminary combustion chamber at each end thereof, and means supplying fuel gas to each combustion chamber, in combination with two pairs of air regenerators, means connecting one member of each pair to the respective combustion chambers, means connecting the other member of each pair to the respective ends of the furnace chamber to complete combustion and protect the roof of the latter chamber, a stack flue, separate passages leading outwardly from each regenerator, a valve chamber, one for each passage, the chamber being outside the furnace structure, a poppet valve to admit fresh air to each chamber, and a poppet valve to admit waste gases from each chamber to the stack flue, whereby fresh air may be admitted in regulated quantities to each regenerator of either pair of regenerators while the stack flue may be connected to carry out waste gases from the remaining pair of regenerators.

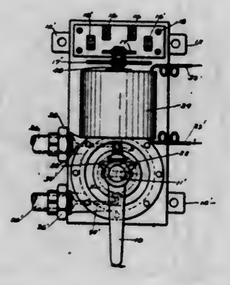
1,457,557. FURNACE. HORACE E. SMYTHE, Pittsburgh, Pa. Filed Feb. 28, 1921. Serial No. 448,685. 7 Claims. (Cl. 263—15.)



1. In a reversing furnace, a melting hearth, a combustion chamber at each end of the chamber, an oil burner at each end of the furnace, a traveling support for each burner for projecting it into its adjacent combustion chamber and retracting it therefrom, an operator's stand.

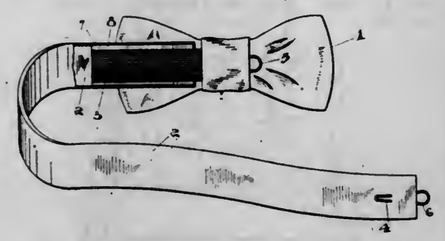
means at the stand having operative connection with each support, whereby the operator may so project and retract each burner at will, and means for supplying fluid fuel to either burner at will.

1,457,558. COMBINATION AIR-VALVE AND ELECTRIC SWITCH. HENRY R. STEVENS and ROBERT L. ROCKWELL, Seattle, Wash., assignors, by mesne assignments, to Ernest G. Howe, trustee, Seattle, Wash. Filed June 12, 1918. Serial No. 239,676. 6 Claims. (Cl. 246—187.)



1. A train stop mechanism for a railway car in combination with the stop lever of an automatic semaphore signal system disposed at selected points along the track, a valve-switch adapted to be secured to said car comprising a lever operable by said stop lever, a member and an air valve operable by said switch lever whereby the operation of said member will close an electric circuit and effect the turning off of current from the motors that drive said car and whereby the operation of said air valve will actuate the emergency valve of said car's air brake equipment whereupon said air brakes will be applied to the wheels to stop said train.

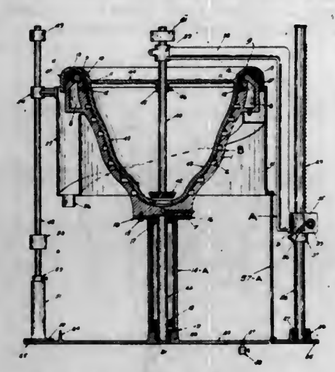
1,457,559. TIE. HARVEY E. STONGE, Toronto, Ontario, Canada, assignor to The S. K. Neckwear Limited, Toronto, Canada. Filed Mar. 4, 1922. Serial No. 541,202. 4 Claims. (Cl. 2—32.)



1. A made-up tie having a neck band, said neck band being provided with an elastic portion, a non-elastic portion fixedly connected thereto and a stiffened sheath overlapping the junction of the two portions and connected to one of them.

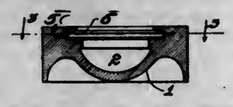
1,457,560. CENTRIFUGAL AMALGAMATOR. HUBERT C. TABER, Los Angeles, Calif., assignor of one-half to Arthur M. Jones, Los Angeles, Calif. Filed May 9, 1922. Serial No. 559,607. 2 Claims. (Cl. 83—67.)

1. A centrifugal amalgamator, comprising a cone-shaped body, having a plurality of amalgam pockets, said pockets practically vertical in position; said cone-shaped body having an outlet at bottom, a large amalgam trap or pocket at top, inlets to amalgam trap, and inlets covered with a screen, said cone body having an outwardly and continuously extending inner surface, an



inner cone in said cone body and means for revolving said inner cone, means for revolving cone body substantially as described.

1,457,561. COUPLING CONNECTION AND NONCORROSIVE COATING THEREFOR. BAYARD E. TAYLOR, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,705. 5 Claims. (Cl. 285—63.)



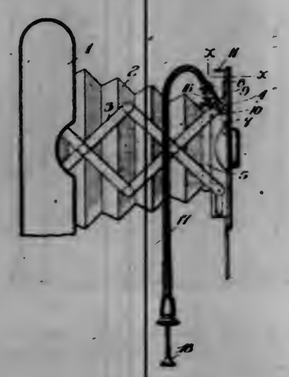
1. A coupling section having a gasket receiving groove, and a corrosion resisting metallic coating applied directly to the walls of said groove.

1,457,562. FRUIT ELEVATOR. WION P. THOMAS, Carlton, N. Y. Filed Dec. 21, 1921. Serial No. 523,939. 13 Claims. (Cl. 198—154.)



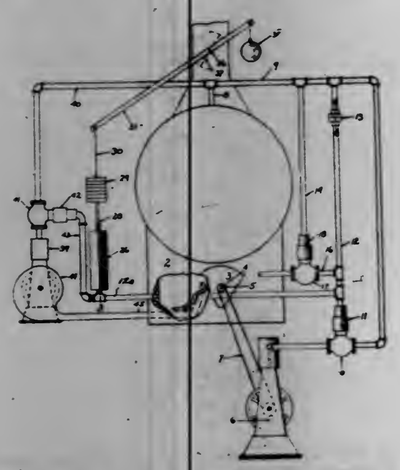
1. A fruit elevator comprising two conveyor chains, and a plurality of slats secured near their outer ends to the chains, each slat having a grooved portion extending forwardly from the chains, and also having a blank portion extending rearwardly from the chains.

1,457,563. PHOTOGRAPHIC-SHUTTER-OPERATING DEVICE. ERNEST E. UNDERWOOD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 28, 1918. Serial No. 259,913. 4 Claims. (Cl. 95—53.)



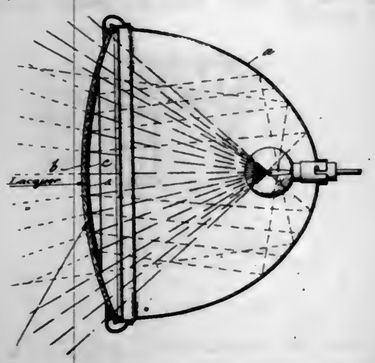
1. A shutter releasing device for use with a folding camera of the type comprising a body, a movable front cover, a bellows connected to the body and to the cover within the area of the latter, and a photographic shutter on the cover having an actuating member in rear of the latter, said shutter releasing device embodying a flexible member adapted to be connected at one end to the inner side of the cover within the area thereof and to cooperate with said shutter actuating member, said flexible member being also adapted to be contained between the camera front and cover when the camera is folded.

1,457,564. STOKER-CONTROLLING MECHANISM. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed July 18, 1918. Serial No. 245,453. 6 Claims. (Cl. 110—103.)



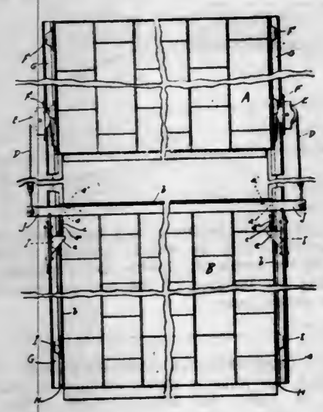
1. In a stoker controlling mechanism, the combination of a stoker; a steam boiler subjected to the fire from the stoker; a stoker motor; a controlling device for the motor; a fluid actuated controlling motor for said controlling device connected with the boiler; and means for intensifying changes in pressure in the controlling motor over changes of boiler pressure.

1,457,565. HEADLIGHT LENS. CHARLES F. WARRICK, Detroit, Mich. Filed Oct. 1, 1921. Serial No. 504,734. 2 Claims. (Cl. 240—48.4.)



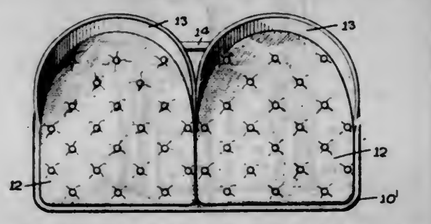
1. A headlight, having in combination, a reflector, a source of light in front of the reflector, and a lens in front of the source of light, comprising a glass, having a central portion coated on the inside with a metal deposit so thin as to have both reflective and transparent properties, and a clear transparent unobstructed rim portion surrounding said coated portion, the arrangement of the coated and transparent portions being such that reflected rays from the metal coating find their way out of the transparent portion of the lens after having been reflected by the said reflector.

1,457,566. ELEVATOR DOOR. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 13, 1920. Serial No. 430,386. 8 Claims. (Cl. 189—46.)



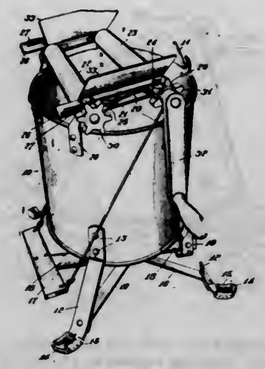
1. An elevator door embodying therein a vertically slidable section having a metal frame, and means closing the space within said frame, said section being adapted to descend in an elevator shaft, suspension means therefor, an abutment carried by the frame of said section and projecting inwardly of the shaft and at substantially right angles to the plane of said section, and a stop supported from the elevator shaft and projecting parallel with the plane of the door and in the path of movement of said abutment in a position to be engaged thereby when the top of the door is substantially flush with the sill of the opening with which it co-operates, whereby loads upon the door will be transmitted directly from the frame of the door to said stop and therethrough to the elevator shaft.

1,457,567. KNEELING STOOL. BENJAMIN DENNY and MATTHEW KAUFMAN, New York, N. Y. Filed Aug. 2, 1921. Serial No. 489,271. 4 Claims. (Cl. 155—167.)



1. In a kneeling stool the combination with a movably supported platform of a guard extending upwardly and arranged forwardly thereof, the said guard being in the form of a double arc and having portions extending toward the rear of the platform intermediate the sides thereof to engage the inner sides of the knees of the user whereby the platform may be shifted by pressure of the knees.

1,457,568. MOP WRINGER. JAMES D. GARVEY, Chicago, Ill. Filed Mar. 5, 1920. Serial No. 363,410. 1 Claim. (Cl. 15—262.)



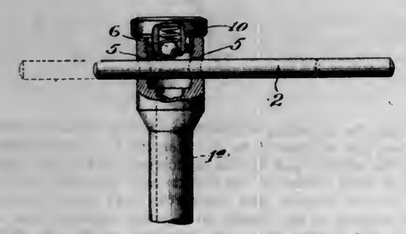
A device of the character described, comprising a pail provided with bracket members secured to the sides thereof and disposed horizontally above the top, the horizontally disposed portion of each bracket being provided with a longitudinal slot, a pair of rollers, the trunnions whereof are rotatably mounted in the slots of said brackets, means whereby one roller is held against horizontal movement while the other roller is adapted to move lengthwise of said slots, means whereby said rollers are normally held in spaced relation, sprocket wheels secured to the trunnions of said rollers, to the outside of the brocket member, said sprockets being adapted to intermesh when said rollers are brought into juxtaposition, a foot-pedal operatively connected with the trunnions of the movably mounted roller, whereby the latter may be moved against the action of said second means and brought into juxtaposition with the other roller and the sprocket wheels of the two rollers brought into meshing relation, and a hand-crank secured to the trunnion of one of said rollers whereby both rollers may be positively rotated.

1,457,569. TRANSMISSION V-BELT. HAROLD M. GUSDORF, Indianapolis, Ind. Filed May 25, 1921. Serial No. 472,336. 4 Claims. (Cl. 74—62.)



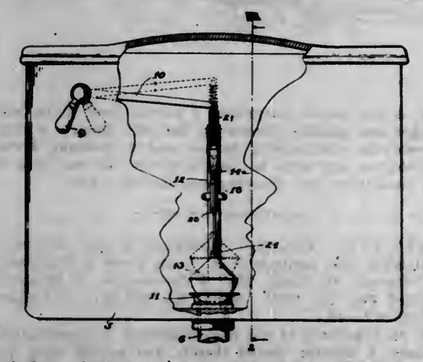
1. A belt for grooved pulleys, V-shape in cross section, formed of a plurality of sections of greater firmness at one end than at the other, said belt having a pulley-contacting surface of less compactness tahn the opposite belt surface, said sections being united by lapped joints formed by beveling the firmer ends of the sections to an edge on the less firm side and by correspondingly beveling the less firm ends on their firmer sides.

1,457,570. TOOL HANDLE AND THE LIKE. EDGAR C. GUTHARD, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,562. 3 Claims. (Cl. 145—62.)



1. In a tool, the combination of a tubular shank member, said shank member being provided adjacent its end with transverse apertures affording a handle seat, a separate handle insertable either into the bore of the shank or into said seat, and a closure member demountably secured to the end of the shank and adapted to maintain the handle in either the bore thereof or in said seat, said closure including a spring-pressed detent arranged for engagement with the handle when the latter is in the seat.

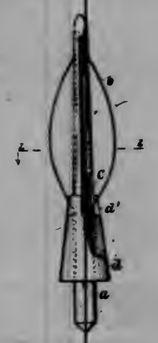
1,457,571. FLUSH-TANK-VALVE MECHANISM. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor of one-half to Foster V. Walts, St. Louis, Mo. Filed Dec. 15, 1920. Serial No. 430,955. 3 Claims. (Cl. 4—5.)



1. In a flush tank valve mechanism, a ball valve, a stem therefor having a bent upper portion, an operating

lever, a slotted link fitting over the stem of the valve and receiving the bent upper stem portion in its slot, and a shock absorbing member connected to the link and lever, one of said connections being adjustable to vary the distance between the link and lever.

1,457,572. SPINDLE. JAMES H. HARNETT, Nutley, N. J. Filed Nov. 14, 1922. Serial No. 600,850. 1 Claim. (Cl. 242—130.)



A spindle including a spindle proper, a collar arranged thereon and adapted to form a stop for a cop tube slipped onto the spindle and having equidistant radial and longitudinal slots formed in the end thereof adjoining the free end of the spindle, and outwardly bent spring devices each secured to the spindle at a point removed from the collar and having free ends arranged within the collar and confined against radial movement and being engaged in the slots.

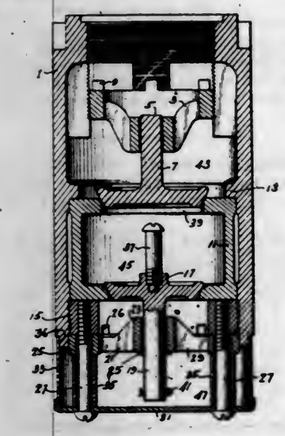
1,457,573. BELT BUCKLE. JOHN HEBERLING, Rochester, N. Y., assignor to Hickok Mfg. Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 1, 1922. Serial No. 540,301. 6 Claims. (Cl. 24—191.)



1. A belt buckle comprising a curved front plate, side flanges and guiding flanges on the side flanges, a slide movable on said guiding flanges, and a clamping device movable on said slide to cooperate with the rear face of the front plate for clamping one end of a belt.

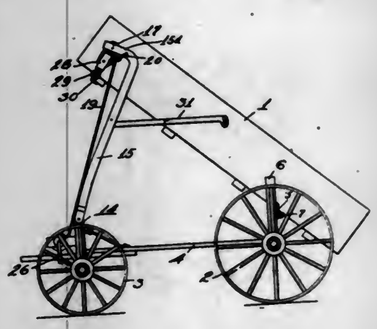
1,457,574. VALVE. SHERWOOD HINDS, Richmond Heights, Mo., assignor to St. Louis Pump & Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 25, 1922. Serial No. 539,301. 8 Claims. (Cl. 277—42.)

4. In apparatus of the class described, in combination, a body, a member seated therein and having seats for valves, valve guides in the upper and lower portions of the body, valves guided thereby and cooperating with the seats, means for holding said member in position in the body, a base held in position with respect to said body,



a screen or strainer mounted on the body and held in position thereon by the base, and a lost-motion connection between the lower valve and the upper valve.

1,457,575. DUMPING ATTACHMENT FOR FARM WAGONS. ANTON F. JANSEN, Douglas, Ill. Filed July 10, 1922. Serial No. 573,895. 5 Claims. (Cl. 298—19.)



1. The combination with a wagon body, of a front bolster therefor, hoisting standards pivoted to said bolster on opposite sides of the body, foldable braces connecting said standards with said wagon body, upper tackle-blocks carried by said standards, lower tackle-blocks depending therefrom and connectible with said body, cables operatively connecting said tackle-blocks, and a winding drum supported by said bolster for winding the cables thereon for raising the lower tackle-block.

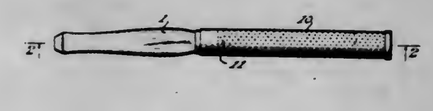
1,457,576. CLOTHESLINE CLAMP. PETER JENONIS, Chicago, Ill. Filed Apr. 5, 1922. Serial No. 549,714. 3 Claims. (Cl. 24—133.)

1. A bracket having apertures for inserting means for securing it to a wall, struck up humps forming recesses on the rear face thereof, a corrugated hump centrally disposed on the front of said bracket below the first mentioned humps, a broad-tailed lever pivoted in said recesses, and a concave corrugated surface on the lower



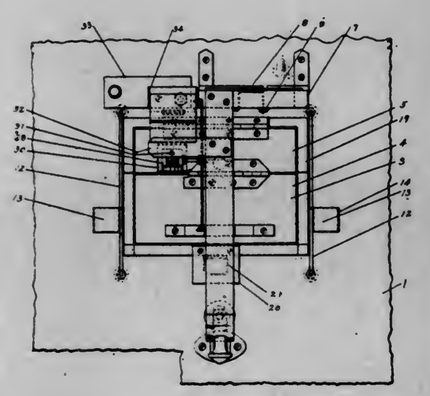
face of said tail, said concave surface having a greater radius than the hump to form a diverging opening on each side of the center-line of said lever.

1,457,577. CIGAR OR CIGARETTE HOLDER. GEORGE B. JOERGER, Chicago, Ill. Filed Mar. 22, 1922. Serial No. 545,868. 1 Claim. (Cl. 131—10.)



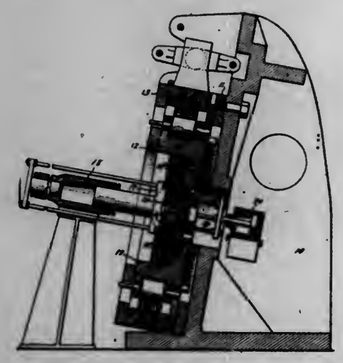
A holder of the class described comprising a bit, a guide member attached thereto, said guide member having cylindrical ends and being partly cut away between said cylindrical ends, and a foraminous cylinder slidable on said guide.

1,457,578. PRINTING FRAME. BERNARD J. KOCH, Pittsburgh, Pa. Filed Jan. 18, 1921. Serial No. 438,076. 4 Claims. (Cl. 101—97.)



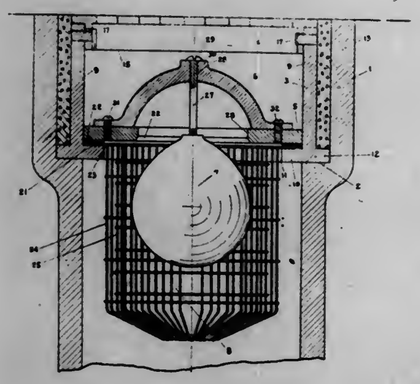
1. In a printing frame a printing cover, an operating handle therefor, stamping means rotatable as a whole on said operating handle, and a resilient member arranged to engage said stamping means to prevent rotation thereof.

1,457,579. METHOD AND APPARATUS FOR SHAPING AND TRIMMING BRAKE DRUMS. HARRY WM. KRANZ, Cleveland, Ohio, assignor to The Hydraulic Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 7, 1921. Serial No. 435,655. 5 Claims. (Cl. 153—2.)



1. The herein described method of finishing brake drums which consists in arranging said drum upon a suitable support, subjecting the face and flange of said drum to external pressure, and simultaneously trimming the edges of said flange.

1,457,580. SEWER-TRAP VALVE. STANLEY KURTZ, Lorain, Ohio. Filed Jan. 12, 1922. Serial No. 528,599. 7 Claims. (Cl. 182—14.)

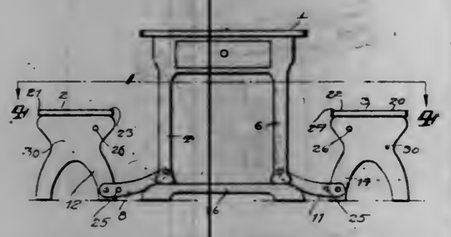


1. In a back-flow check valve for sewers and the like, the combination with a tubular basin member, said tubular member having outwardly and inwardly extending flanges on its lower end, an annular ring loosely fitting within the said tubular member, clamping projections extending from the side walls inwardly from the said tubular member, said annular ring being adapted to be clamped between the said inwardly extending flange and said projection, a bridge member spanning and mounted upon the said ring, a ball float, a rod secured to one end thereof and extending therefrom, a valve seat on the lower inner edge of said ring, a journal at the middle point extending vertically in said bridge, said rod being vertically slidable in said journal whereby said ball float may rise to engage the said seat to close the valve.

1,457,581. ART OF DYEING. BARTHOLOMEW C. LEONARDI, New Rochelle, N. Y., assignor to George D. Wright Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 23, 1922. Serial No. 538,819. 8 Claims. (Cl. 8—6.)

5. A composition for dyeing comprising a finely divided mixture of a color, tartaric acid, sodium sulphate, aluminum sulphate, sodium bicarbonate, and lactose.

1,457,582. COMBINATION FURNITURE. VALENTINE LEWANDOSKI, Chicago, Ill. Filed Nov. 7, 1921. Serial No. 513,464. 13 Claims. (Cl. 155—80.)



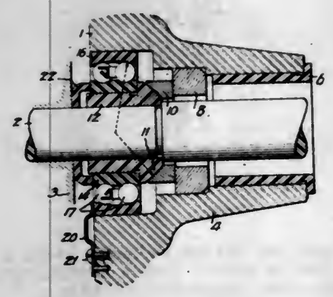
1. In combination, a table, a seating member, a connecting link between the table and said seating member, said link permitting swinging of the seating member into position beneath the table, and stop means carried by the seating member and engageable with said connecting link for limiting the swing of said seating member.

1,457,583. SAMPLE-TAKING DEVICE. WILLIAM J. LOORS and CHARLES C. COX, Houston, Tex. Filed Jan. 10, 1921, Serial No. 436,347. Renewed Nov. 18, 1922. 1 Claim. (Cl. 255—67.)



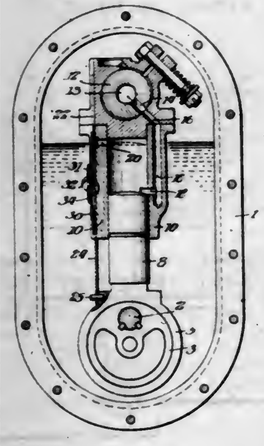
A sample taking device including a tubular stem having an outlet port, a core barrel attached to the lower end thereof and provided with a port, a plate closing the upper end thereof, a drill shoe attached to the lower end thereof, and an auger anchored to said plate and depending within said barrel.

1,457,584. SEALED BEARING. CHARLES L. MCCUEN, Chicago, Ill., assignor to Resolute Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1921. Serial No. 465,989. 5 Claims. (Cl. 64—36.)



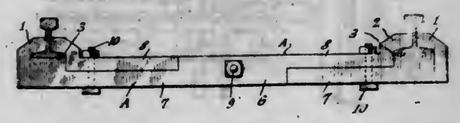
5. In a floating, sealed, anti-friction bearing, the combination of a wall of the receptacle to be sealed, a shaft passing through the wall and having a spherical portion imperviously related to the shaft, a ball bearing having an inner and an outer ball race with balls interposed between them, a ring having a spherical portion making surface contact with the first mentioned spherical portion, a second ring inserted in the wall and making fluid-tight connection therewith, the two rings having flat wearing surfaces arranged transversely to the shaft whereby the first mentioned ring may slide transversely of the bearing, one of the ball races having a spherical surface concentric with the first mentioned spherical portion.

1,457,585. VALVE. CHARLES L. MCCUEN, Chicago, Ill., assignor to Resolute Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 10, 1921. Serial No. 476,376. 5 Claims. (Cl. 230—34.)



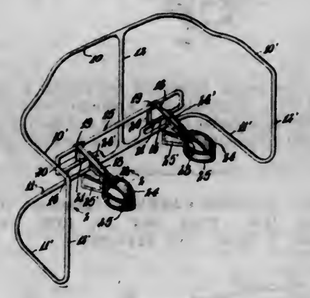
1. A compressor having a cylinder provided with inlet and outlet ports one of said ports having a flat valve seat, a valve adapted to move in a direction normal to the surface of the valve seat for opening and closing the port, and a plunger working in said cylinder, the said valve being also slidable upon its seat, and connected to the plunger whereby a constant rubbing action is produced.

1,457,586. RAIL BRACE. DAN B. MCLAIN and ELBERT M. TATUM, Little Rock, Ark., assignors of one-third to Jesse A. Milam, Little Rock, Ark. Filed Dec. 30, 1921. Serial No. 525,970. 1 Claim. (Cl. 238—38.)



A brace bar for rails of a trackway comprising two members, one end portion of each of the members being provided with means to engage the outer base flange of a rail, the opposite end portion of the member being provided with means to engage the inner base flange of a rail, one end portion of each of said members being cut out from below and entirely thereacross, the opposite end portion being cut out from above and entirely thereacross, the intermediate portion of each member between said cut-out portions being of a width less than the width of the members, said members when assembled being in reverse relation, and means for holding the members in assembled relation.

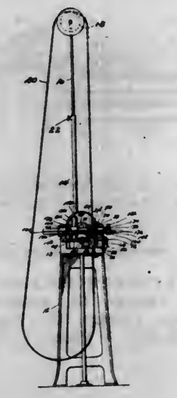
1,457,587. LAMP BRACKET. MYRON MAIBRUNN, New York, N. Y. Filed May 18, 1922. Serial No. 561,883. 6 Claims. (Cl. 240—52.)



1. A lamp bracket comprising a frame presenting a horizontal guide element, and a pair of lamp supporting arms adjustable along said guide element, said frame having fixed extensions at the sides separate from said guide element adapted to form a shield for the lamps supported by said arms.

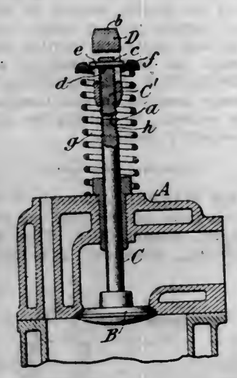
1,457,588. AUTOMATIC BAND-SAW FILING AND SETTING MACHINE. JOSEPH M. MAJEWSKI, Jr., Kansas City, Mo. Filed May 2, 1919. Serial No. 294,259. 14 Claims. (Cl. 76—35.)

1. A machine of the character described comprising saw-holding means arranged to hold the saw with its teeth in a vertical line, and filing means comprising a filing tool and tool-carriage, means for reciprocating said carriage for imparting a filing motion to said tool, means for moving said carriage transversely with reference to said filing motion for inserting and withdrawing said tool from engagement with said teeth, and means for



confining the transverse movement of said carriage to a single plane located at an angle corresponding to the slope of said teeth.

1,457,589. VALVE-ROD-ADJUSTING DEVICE. CHARLES A. MILLER, New York, N. Y. Filed Apr. 19, 1919. Serial No. 291,228. 2 Claims. (Cl. 123—90.)

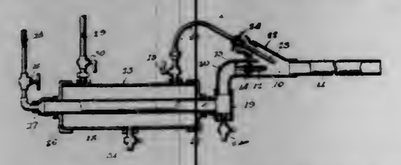


1. The combination with an internal combustion engine, of a valve and valve stem, an operating device for the valve, a contact member having an interiorly threaded portion and an elongated transverse opening, the valve stem also having a transverse opening, a locking pin which passes through the opening in the contact member and fits closely in the opening in the valve stem, thereby preventing the contact member from turning after it is adjusted, a spring governing the valve, and means adapted to hold the spring out of normal position during adjustment of the contact member.

1,457,590. OIL BURNER. JULIUS C. MISNER, Terre Haute, Ind. Filed Sept. 3, 1920. Serial No. 408,027. 3 Claims. (Cl. 158—76.)

1. In an oil burner the combination of a tubular mixing chamber, an air passage arranged at an angle with said chamber and communicating therewith, a fuel pipe

extending through said passage and substantially into said chamber and spaced from the walls thereof, and a



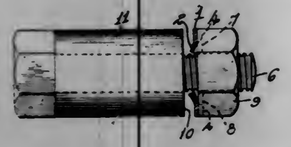
nozzle at one end of said chamber for directing a blast of fluid through said chamber across the ends of said passage and pipe.

1,457,591. OCCUPANT-PROPELLED SLED. AUGUSTO E. MUELLER, Chicago, Ill., assignor of one-half to John H. Jarvin, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 532,529. 4 Claims. (Cl. 208—158.)



1. The combination with a vehicle, comprising a frame structure including longitudinally disposed side members provided with guiding slots, of propelling members, each comprising an elongated horizontal portion extending longitudinally of the vehicle beneath its respective side member and an upright portion rigidly secured to the forward end of said horizontal portion and extending upwardly through the guiding slot of said member, whereby the forward ends of said propelling members are guided, and means mounted on said frame structure beneath said side members for guiding the horizontal portions of said propelling members.

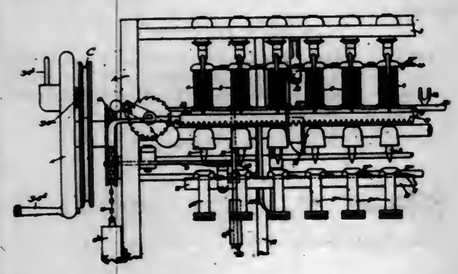
1,457,592. LOCK WASHER. EDWARD W. MURRAY, Detroit, Mich., assignor of forty-five one-hundredths to James E. Bryant, Detroit, Mich. Filed May 1, 1920. Serial No. 378,095. 4 Claims. (Cl. 151—35.)



1. In a lock washer, a member formed of sheet metal, lugs provided on one side thereof and a series of prongs bent outwardly on the opposite side and then twisted at an angle to the plane thereof.

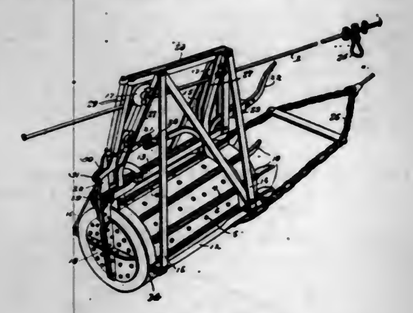
1,457,593. DOFFING MECHANISM FOR SPINNING AND LIKE MACHINES. THOMAS GEORGE MYLCHREEST, Thorner, near Leeds, England. Filed Oct. 24, 1917. Serial No. 198,233. 6 Claims. (Cl. 118—17.)

1. In doffing mechanism for spinning, doubling and like machines, a shaft, a member for operating said shaft, means operated from said shaft to displace full bobbins and bring empty bobbins into position, means operated by said shaft to simultaneously move the flyers from the path of means for clearing yarns from the spindles, means operated by said shaft to displace yarns



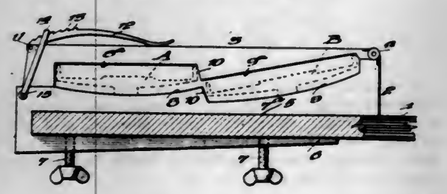
wound around the spindles, and means operated by said shaft for raising the empty bobbins into positions about the spindles.

1,457,594. EXCAVATING DEVICE. PHILIP NEARY, Seattle, Wash. Filed May 17, 1922. Serial No. 561,568. 6 Claims. (Cl. 37—117.)



1. An excavating receptacle comprising a shell of cylindrical form, longitudinally arranged reinforcing strips secured on the exterior of the shell and having out turned flanges and reinforcing bars secured between said flanges.

1,457,595. RUNNER CARRIER. NORDAHL O. NELSON, Westby, Wis. Filed May 10, 1922. Serial No. 559,863. 1 Claim. (Cl. 224—29.)



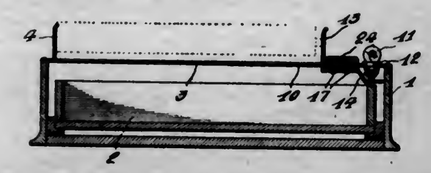
In a device of the class described, the combination of a primary jaw provided with upper and lower integrally connected portions, set screws on said lower portion, said upper portion provided with seats and with a shoulder near its center, an auxiliary jaw hingedly connected to said primary jaw at one end, said auxiliary jaw provided on its other end with a yieldable, pivotally mounted clasp, said clasp provided with teeth or corrugations, said auxiliary jaw provided with seats and with a central shoulder registering with the seats and shoulder on the primary jaw, and a yoke pivotally mounted on the outer end of said primary jaw adapted to straddle the outer end of the auxiliary jaw and engage said teeth or corrugations of the clasp, substantially as shown and described.

1,457,596. TUBING SPEAR. ORDA D NUTTER, Parkersburg, W. Va., assignor to Acme Fishing Tool Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Aug. 12, 1921. Serial No. 491,856. 5 Claims. (Cl. 294—96.)



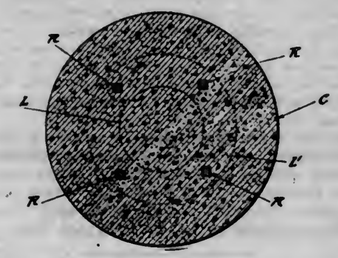
1. In combination in a fishing tool, a substantially pointed body adapted to enter the tubing to be fished for, a flange on said body, segmental wedges on said body adapted to grip the tube when pulled upwardly, and an element between said flange and the pointed end of said body for limiting the extent of entry of the body into the tube, said element being adjustable to permit loosening of the tube from the spear after it has been withdrawn from the well.

1,457,597. BATTERY AND BULB TESTER. OTTO OHMART, Cairo, Ill. Filed Sept. 15, 1921. Serial No. 500,780. 5 Claims. (Cl. 175—183.)



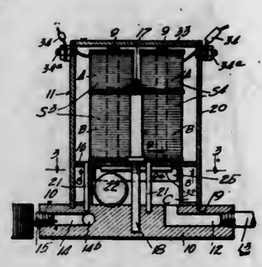
1. A battery and bulb tester comprising a metal base plate, a contact carried thereby, a contact secured beneath and insulated from the base plate and having one end portion extending up through an opening in the base plate, the base plate having a bulb holding socket in operative relation to the portion of the second contact below the base plate, and a contact above and insulated from the base plate and having operative connection with the second contact.

1,457,598. PROTECTING REENFORCEMENT IN CONCRETE AND THE LIKE. RAYMOND G. OSBORNE, Los Angeles, Calif. Filed Dec. 27, 1921. Serial No. 525,149. 3 Claims. (Cl. 91—70.)



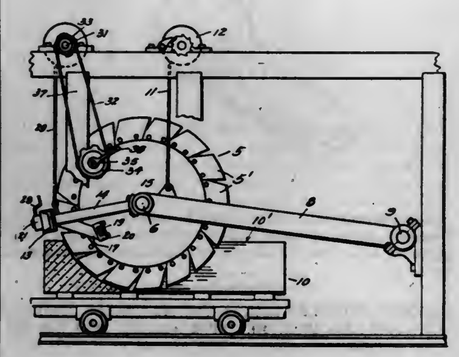
1. A reinforced concrete structure wherein the interiorly exposed surfaces of the reinforcing elements are treated with a protective substance and the interstitial spaces around the reinforcing elements are filled with such substance.

1,457,599. VALVE. EDGAR J. PACE, Los Angeles, Calif., assignor to El Roy L. Payne, Los Angeles, Calif. Filed Aug. 30, 1920. Serial No. 406,988. 5 Claims. (Cl. 137—139.)



4. In a valve, a base, a port leading to the upper face of the base and a valve seat around the port, a port closure member adapted to rest on the seat, electro-magnetic means to lift said member, and electro-magnetic means to move the member laterally away from the port, said electro-magnetic means embodying two laterally spaced magnets, each magnet having a small and a large winding, and means to energize either winding of each of the magnets.

1,457,600. SAW GUIDE. DANIEL W. PARKER, Everett, Wash., assignor to The Parker Rotary Stone Saw Company, San Francisco, Calif., a Corporation of Nevada. Filed May 11, 1921. Serial No. 468,540. 5 Claims. (Cl. 143—165.)

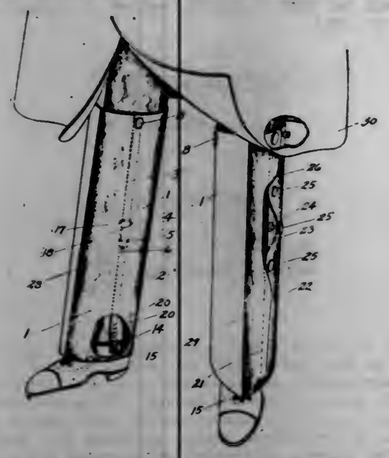


1. The combination with a saw, the arbor therefor, a swingable frame carrying said arbor, and means connected to said frame for regulating the elevation of the saw, of a pair of guides for said saw, a support for the guides, said support being connected to the frame for movements concentrically about the arbor axis, and means for adjusting the position of said support for regulating the positions of the guides with respect to the work.

1,457,601. LEGGING. PAUL M. PRUET, Kansas City, Kans. Filed Nov. 17, 1922. Serial No. 601,505. 4 Claims. (Cl. 35—15.)

1. A collapsible legging comprising a brace consisting of two members, one of which is slidable on the other, means for holding the brace members distanced, a shoe-engaging clasp at the lower end of one of the members, and a legging fabric connected to the brace.

4. A legging comprising a brace consisting of two members, one of which is movable with respect to the



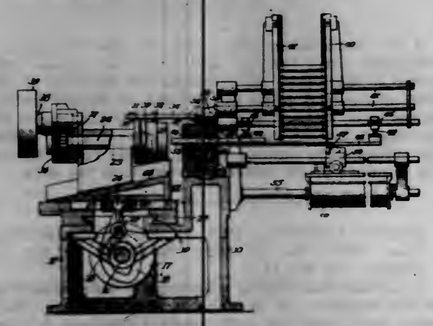
other, a sheet permanently attached to one member and removably attached to the other member, and means for fastening the edges of the sheet together.

1,457,602. HARNESS-LOOP REENFORCEMENT. PAUL RADLE, Arkansaw, Wis. Filed Nov. 17, 1920. Serial No. 424,575. 1 Claim. (Cl. 24—183.)



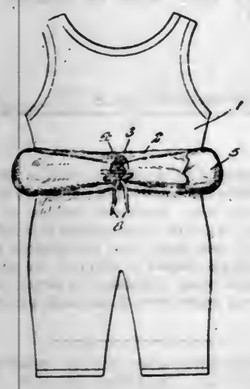
A harness strap reenforcement, made from a single T-shaped piece of sheet metal and embodying a ring engaging hook and two oppositely disposed strap engaging loops.

1,457,603. NIPPLE-THREADING MACHINE. THOMAS RANKIN, Lake Bluff, Ill. Filed Aug. 12, 1921. Serial No. 491,693. 11 Claims. (Cl. 10—91.)



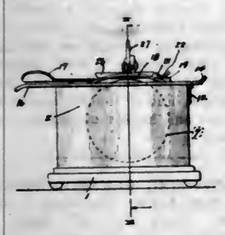
1. In a threading machine, the combination of a plurality of threading heads, means for bodily moving said heads longitudinally into engagement with a pipe to be threaded and laterally out of line with a threaded pipe, and means for automatically feeding and clamping a section of pipe.

1,457,604. BATHING SUIT. JOHN H. RATHMAN, Wichita, Kans. Filed Oct. 19, 1922. Serial No. 595,631. 1 Claim. (Cl. 9—17.)



In combination with a bathing suit, a plurality of flap members secured at their upper edge portion to the said suit and adapted for supporting an air tube or the like around the waist of the wearer, for preventing drowning while in bathing, and detachable connections between the opposite ends of the said flap members and the suit for purposes described.

1,457,605. ENVELOPE MOISTENER. ALFRED J. SCHAUB, Sr., Oakland, Calif. Filed Oct. 28, 1921. Serial No. 511,164. 5 Claims. (Cl. 91—51.)



1. An envelope moistening device comprising a rotatably mounted moistening drum, a self-adjusting contact maintaining member co-operating therewith, means for opening the envelope flap and means for removing surplus moisture associated therewith so as to allow of the insertion of the folded envelope and the opening, moistening and draining of the flap in one continuous operation.

3. In an envelope moistening device, a rotatably mounted moistening drum and a surplus moisture draining means associated therewith, said means comprising a plate member declining toward the drum having a spring member co-operating with its top edge for pressing the moistened envelope against the said edge.

1,457,606. HANDLE FOR CUTLERY ARTICLES. JOSEPH ANTHONY SCHLEHR, Chicago, Ill. Filed Mar. 28, 1922. Serial No. 547,589. 2 Claims. (Cl. 30—9.)

1. An article of cutlery comprising a body, a longitudinal key secured to one side of said body, having retaining tongues at its opposite ends, and a handle section formed in its inner face with a keyway to accom-



modate said key, the retaining tongues being designed to be bent against the ends of the handle section to retain the latter in place.

1,457,607. WEIGHTING AND DYEING SILKS. CARL VON DER SCHMALS, Philadelphia, Pa. Filed Aug. 10, 1922. Serial No. 581,027. 6 Claims. (Cl. 8—5.)

1. The herein described process of weighting silk fabrics consisting in subjecting the dyed fabrics to the action of a solution of a non-poisonous vegetable syrup containing tannic acid.

1,457,608. COMBINATION FRAME. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Feb. 11, 1922. Serial No. 535,672. 7 Claims. (Cl. 88—47.)

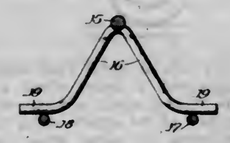


1. The combination with a metal rim, of a composition covering therefor formed from distorted rod stock whereby the tendency of the stock in relieving the distortion will be to more firmly grip the metal rim.

1,457,609. COMPOSITION FOR REMOVING RUST FROM FABRICS. ALLAN C. SHAVER, Montreal, Quebec, Canada. Filed Apr. 29, 1921. Serial No. 465,495. 6 Claims. (Cl. 8—8.)

1. A composition for removing rust stains from fabric containing oxalic acid and oil Gaultheria.

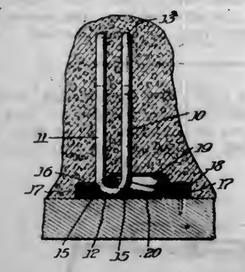
1,457,610. CONCRETE SPACER. WILLIAM E. WHITE, Chicago, Ill. Filed Jan. 29, 1921. Serial No. 440,931. 2 Claims. (Cl. 72—122.)



1. A spacer comprising in combination, a single longitudinal wire and a plurality of V-shaped legs or chairs welded thereto at the apex of the V, and a longitudinal wire welded to the extremity of each of the legs of the V.

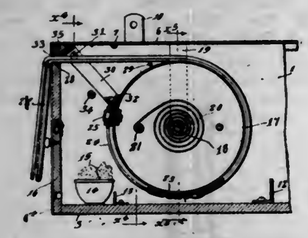
1,457,611. HANGER INSERT. WILLIAM E. WHITE, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,878. 2 Claims. (Cl. 72—105.)

1. In an insert, the combination of a wire bent upon itself to provide a loop having adjacent parallel portions, the free ends of which are laterally offset to provide anchors, a ring suspended at the bend in said loop, and a housing, said housing being of a depth less than the diameter of said ring and providing a recess within which the ring may be accommodated in a substantially



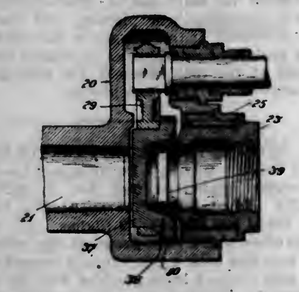
horizontal position and when released to swing into a vertical position with a portion of the ring opening below the bottom surface of the housing.

1,457,612. RAZOR-STROP CONTAINER. SOLOMON A. WINKLEPLECK, now by judicial change of name Solomon Asberry Winkle, Santa Ana, Calif. Filed Feb. 28, 1921. Serial No. 448,317. 9 Claims. (Cl. 51—202.)



1. A device of the class described comprising a razor strop, a housing having an opening in one of its walls through which the strop is drawn outwardly for use, a spring operated member tending to draw the strop into the housing and having an abutment, and means pivoted in the housing and operated by said abutment during the return of said member to arrest the inward movement of the strop.

1,457,613. VALVE. PAUL C. WITHROW and WILLIAM W. LEMEN, Denver, Colo. Filed July 10, 1920. Serial No. 395,206. 8 Claims. (Cl. 251—18.)



1. A valve of the character described, comprising a housing provided with inlet and outlet ports and a pair

of valve-seats, a pair of valve members located within the housing, each adapted to seat on a different one of said valve-seats and seating in the direction of the flow through said housing, one of said valve members being normally held in unseated position and means whereby both valve members may be simultaneously controlled.

1,457,614. SIRUP CAN. SOL BROWN, New Orleans, La., assignor to Dunbar Molasses & Syrup Co., New Orleans, La., a Corporation of Louisiana. Filed June 23, 1922. Serial No. 570,296. 2 Claims. (Cl. 221—23.)



1. A can comprising a top having a scored portion defining a removable disc, a collar permanently attached to the top and surrounding the disc, said collar having a spout extension projected over the edge of the can, and a friction plug removably located within the collar.

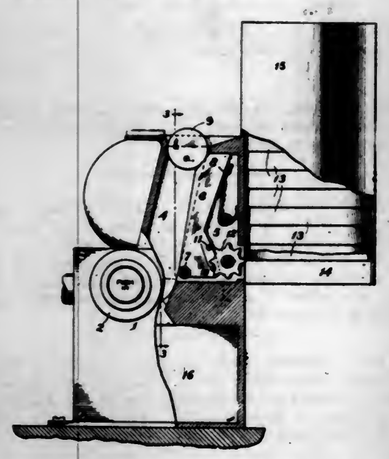
1,457,615. SHAVING BRUSH. WARD S. BUNKER, Waukesha, Wis. Filed Apr. 11, 1918. Serial No. 227,962. 1 Claim. (Cl. 15—138.)



A fountain brush including a soap receptacle provided at one end with brush bristles, a feed tube for soap extending from the receptacle into said bristles and having its outer end open, a guide arranged at the opposite end of said receptacle, a plunger slidably mounted in said guide and having its inner end of frusto-conical shape, a handle for operating said plunger, and means for limiting the movement of the plunger in said tube to permit the end surface of said plunger to remain flush with the outer end of the tube, whereby the soap may seat the space between the tube and plunger.

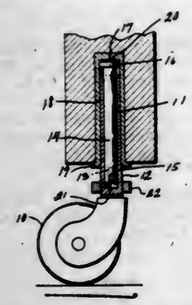
1,457,616. COIN-CONTROLLED APPARATUS FOR DISPENSING CUPS. DANIEL J. BUTTERFIELD, Los Angeles, Calif. Original application filed Nov. 2, 1920, Serial No. 421,393. Divided and this application filed Feb. 4, 1922. Serial No. 534,063. 2 Claims. (Cl. 194—2.)

1. In a machine of the class described, the combination of a casing provided with a coin chute, a compartment to one side of said chute, a lever provided with an enlarged portion pivotally mounted in said compartment and adapted to partly extend into said coin chute, a pair of pins on the enlarged portion of said lever, a receptacle or cup compartment contiguous to said first-mentioned compartment, cups in said last-mentioned compartment, a cog interposed between the cups and the lever, and a cup engaging a tooth of the cog whereby when a coin is



placed in the coin chute the lever will be operated to move the cog through the action of one of the pins on a tooth thereof for permitting a single cup to drop out of the cup compartment.

1,457,617. ADJUSTABLE CASTER. JOHN CARLSON, La Tuque, Quebec, Canada. Filed Jan. 14, 1922. Serial No. 529,235. 5 Claims. (Cl. 16—19.)

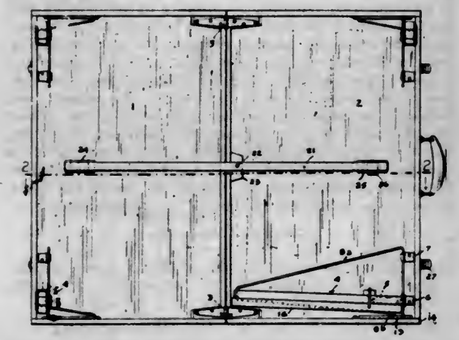


1. In a caster, a tubular caster wheel supporting shank open at its upper end, a caster wheel, a spindle disposed within the tubular shank and extending above the same, the lower end of the spindle being bifurcated and operatively supporting the caster wheel and the caster wheel and spindle oscillating together, means whereby the spindle may be elevated or lowered relative to the shank and held in its adjusted position, and a socket within which the shank and spindle are disposed, the spindle and socket at their upper ends being formed with complementary bearing portions.

1,457,618. FOLDING TABLE. SHIRLEY M. COGGINS, San Francisco, Calif. Filed June 25, 1921. Serial No. 480,312. 3 Claims. (Cl. 45—116.)

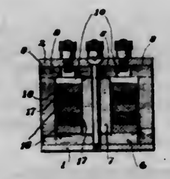
1. In combination with an article to be supported, legs hinged to and adapted to fold with relation to said article, spring rods secured intermediate of their ends to the outer portion of the legs and extending inwardly and

angularly on opposite sides of the legs to and connected with said article, one end of each rod being fixed to said



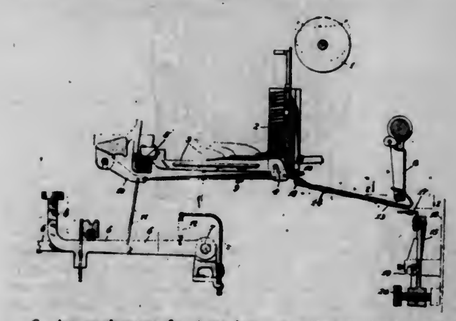
article and a guide member in which the other end of said rod is slidable into and out of position to lock the leg against unintentional folding.

1,457,619. AUDIOFREQUENCY COUPLING TRANSFORMER. SAMUEL COHEN, Brooklyn, N. Y. Filed May 12, 1921. Serial No. 468,993. 2 Claims. (Cl. 175—356.)



1. A device of the class described comprising a substantially cylindrical hollow core composed of a plurality of laminations, a laminated base member rigid with and closing one end of said core, a central laminated member rigid with said base member and providing an annular recess between said core and said central member, said recess being adapted to receive electrical coils, a laminated upper member rigid with the other end of said core, and passages in said upper member into said recess.

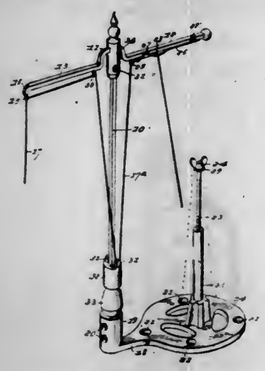
1,457,620. TYPEWRITING MACHINE. BERNARD J. DOWD and ANTHONY UTZ, Hartford, Conn., assignors to Royal Typewriter Company Inc., New York, N. Y., a Corporation of New York. Filed July 3, 1922. Serial No. 572,395. 8 Claims. (Cl. 197—33.)



8. An anchorage for type bar operating springs consisting of a member extending transversely of the machine

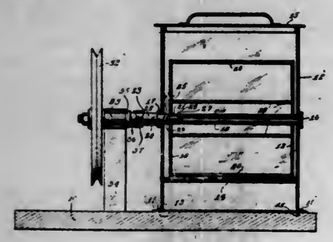
the points of attachment thereto for the springs being arranged, from the center toward each end of said member, at a progressively increasing distance with respect to a vertical plane passing transversely of the machine through the rear frame thereof.

1,457,621. TWINE HOLDING AND DISPENSING DEVICE. WILLIAM ELEY, Suffolk, Va. Filed Mar. 29, 1921. Serial No. 456,703. 5 Claims. (Cl. 242—143.)



1. A dispensing device for wrapping cord or twine, having a base attachable to a suitable supporting object and provided with means for holding a ball of twine, an upright rising from the base near one edge, a crosshead having a socket fitted on the upper end of the upright and oppositely directed dispensing and receiving arms respectively provided with a terminal delivery guide and a frictional tension device, the socket having an interlocking engagement with the upright for definitely positioning the arms with relation to the base, and a take-up weight slidingly mounted on the upright and having a running engagement with a bight of the twine between the delivery guide and the tension device.

1,457,622. CREAM WHIPPER. CHRIST ELIOPULOS, Marion, Ind. Filed Sept. 7, 1921. Serial No. 499,004. 1 Claim. (Cl. 259—110.)



An improved cream whipper comprising in combination a base, a standard fixed in position on the base, a driving shaft rotatively mounted upon the standard, guides fixed to the base and extended at right angles to the driving shaft, a cream whipper body slidingly mounted in the said guides and capable of movement lengthwise of the guides, and also capable of being detached from the base when moved beyond the ends of the guides, a cream whipper device within the receptacle and formed with a shaft, said receptacle being formed at one side with a bearing to receive one end of the shaft of the whipper device and the other end of the shaft of the whipper device being formed with a key way, a detach-

able shaft section having its bearings in one side of the receptacle and being extended through the receptacle and being provided with a key to enter the key way of the whipper, and also being formed with a shoulder to limit its movement inwardly, the outer end of said detachable shaft and the adjacent end of the driving shaft being formed with coacting projections and slots so arranged that when the two are in alinement they will rotate in unison, and also so arranged that when said projections and slots are substantially horizontal, the receptacle may be removed by simply sliding it in its guides, substantially as and for the purposes stated.

1,457,623. WIND INSTRUMENT. ALSON F. FAIRCHILD, Elkhorn, Wis. Filed Oct. 24, 1921. Serial No. 510,182. 6 Claims. (Cl. 84—392.)



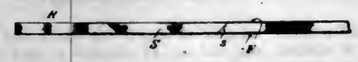
4. In a wind instrument having a plurality of pistons in duplicate, each provided with a pair of curved conduits with aligned openings equally spaced inlets and outlets wholly in one side thereof, a plurality of duplicate cylinders with aligned holes in register with an equal number of said piston openings, a mouth-piece connecting with a hole of one cylinder, a bell-pipe connecting with the opposite corresponding hole of the cylinder farthest therefrom, and looped pipes of various lengths connecting corresponding holes in each cylinder, and opposite holes in pairs of cylinders.

1,457,624. ICE-CREAM-CUTTING MACHINE. WILLIS HAYES FOX, Denver, Colo., assignor of one-half to The C. G. Carlson Ice Cream Company, Denver, Colo., a Corporation of Colorado. Filed Feb. 3, 1922. Serial No. 533,835. 6 Claims. (Cl. 107—21.)



4. A cutting machine comprising in combination a table an opening in the top thereof, a support secured to the table below the upper surface thereof, the upper end of said support being flush with the upper surface of the table, and provided with slots for the reception of cutters, a housing surrounding the support and adapted to reciprocate thereon, means for holding said housing in its uppermost position, an opening in one side of said housing whereby the material to be cut may be introduced thereinto when the housing occupies its uppermost position; a plurality of cutters carried by said housing and located above the upper edge of said opening, said cutters being adapted to enter the slots in the support, and means for reciprocating said housing, whereby the cutters may be made to pass through the material to be cut, and into said slots, the housing and cutters being so arranged that when they are in their lowermost position the upper parts thereof are below the top of the table, whereby the surfacing the latter is unobstructed.

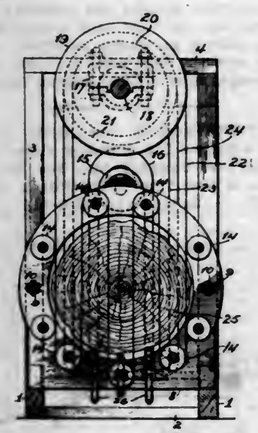
1,457,625. FABRIC BINDING STRIP. AARON FREYDBERG, Mount Vernon, N. Y. Filed Feb. 12, 1923. Serial No. 618,590. 3 Claims. (Cl. 91—68.)



1. As a new article of manufacture, binding material comprising a length of relatively narrow bias-cut fabric, said length consisting of a plurality of relatively narrow bias-cut pieces joined together on diagonal lines, the opposite longitudinal edges of the fabric being treated with adhesive to retard fraying tendency of the threads along such edges.

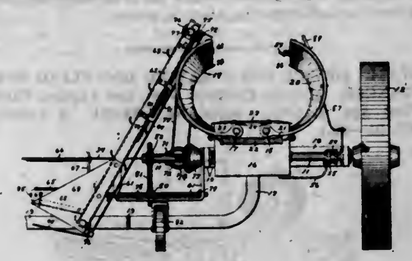
3. As a new article of manufacture, a roll of binding material comprising a core and a length of relatively narrow bias-cut binding fabric wound thereon, said length consisting of a plurality of relatively narrow bias-cut pieces joined together on diagonal lines, and the opposite faces of the roll being treated with adhesive to retard the fraying tendency of the threads along the longitudinal edges of the fabric.

1,457,626. WOODWORKING MACHINERY. LOUIS FRITZ, Memphis, Tenn. Filed Aug. 15, 1922. Serial No. 581,965. 3 Claims. (Cl. 143—22.)



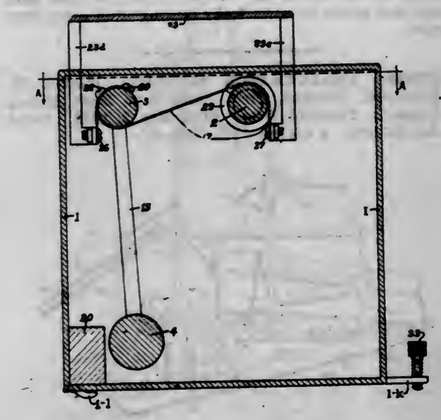
1. In saw mill apparatus, the combination with framework, of a plurality of band saw units, each unit comprising a frame, pulleys carried by said frame and a band saw passing over said pulleys to present a plurality of parallel active portions, the parallel active portions of the saw of one unit being staggered relatively to the parallel active portions of the saw of an adjacent unit.

1,457,627. GRAIN-SHOCKING ATTACHMENT FOR HARVESTERS. DANIEL W. GILE, Madison, S. Dak. Filed Feb. 3, 1921. Serial No. 442,337. 9 Claims. (Cl. 56—423.)



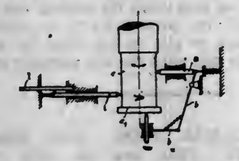
3. A shocking attachment for harvesters, comprising a frame, an axle journaled for rotation therein, a supporting wheel on and fixed to said axle, a receptacle formed of two members hinged together and adapted to receive bundles of grain, said receptacle being pivoted between its ends on said axle, means for holding said receptacle in horizontal position, yielding means for holding said receptacle in open position, clutch-controlled gearing between said axle and receptacle for closing the latter, and means for dumping said receptacle.

1,457,628. EQUALIZED-PLATFORM AUTOMATIC SCALE. WALTER K. HARRIS, Lockhart, Tex. Filed Feb. 6, 1922. Serial No. 534,617. 2 Claims. (Cl. 265—61.)



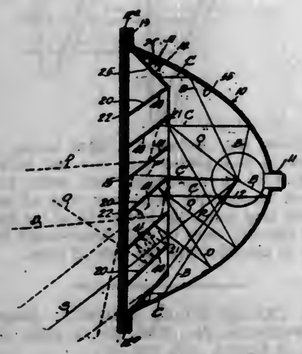
1. In a pendulum scale, the combination of a pendulum having a shaft, a partially revoluble bar paralleling the pendulum shaft and lying in an approximately horizontal plane therewith, a platform placed above the pendulum shaft and partially revoluble parallel bar with supports which extend below the axes of said pendulum shaft and parallel bar, suspension tapes between the lower portions of the platform supports and what constitutes the outer portions of the pendulum shaft and parallel bar when said pendulum shaft and parallel bar are considered with relation to one another, and a connection between the pendulum shaft and parallel bar which forces said pendulum shaft and parallel bar to revolve in conjunction in opposite directions when a downward pressure is exerted upon any portion of the platform.

1,457,629. APPARATUS FOR BALANCING MACHINERY. FRANZ LAWACZECK, Halle-on-the-Saale, and HANS HEYMANN, Darmstadt, Germany. Filed Dec. 22, 1917. Serial No. 208,515. 4 Claims. (Cl. 70—51.)



1. Apparatus for balancing rotary parts of machinery and for determining the plane of unbalancing, comprising in combination means for holding the part to be balanced, said means being adapted to oscillate mainly in a plane during the process of balancing, driving means for causing the body to be balanced to rotate at a speed above the speed of resonance of the oscillating system and for subsequently allowing said system to run by inertia and means for automatically recording the extent of vibrations occurring with the slowing down, particularly at the speed of resonance.

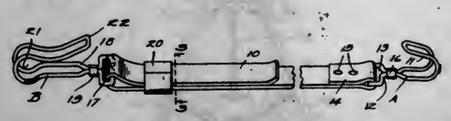
1,457,630. HEADLIGHT. LEWIS A. W. JOHNSON, Los Angeles, Calif. Filed Aug. 12, 1920. Serial No. 403,060. 2 Claims. (Cl. 240—48.4.)



1. The combination with a source of illumination, and a main reflector, of a series of vertically spaced auxiliary reflectors extending transversely of the main reflector, all of said auxiliary reflectors being inclined both vertically and horizontally, the vertical angularity increasing progressively from the top to the bottom of the series, so that the lowest reflector is more nearly vertical than any of the others

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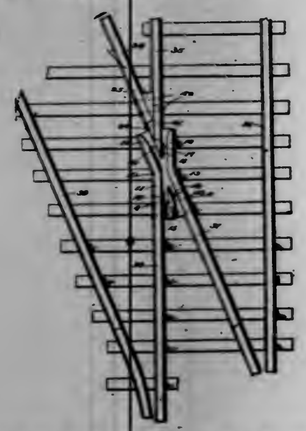
1,457,631. COW-TAIL HOLDER. CHARLES E. STOCKHAM, Oskaloosa, Iowa. Filed July 24, 1922. Serial No. 576,923. 1 Claim. (Cl. 119—105.)



In a device of the class described adapted for holding a cow's tail against switching movement including a flexible strap member having a loop formed on one end thereof, a clip designed to engage the tendon of one of the hind legs of the cow, said clip having a loop arranged to receive the loop of the strap member for securing

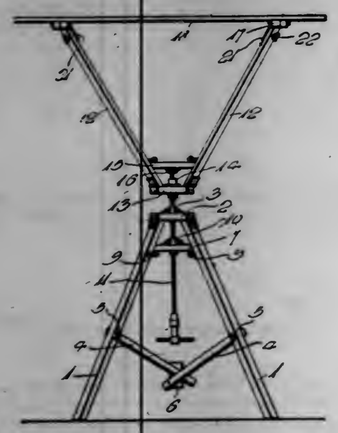
them together, said clip being formed of spring material, a second clip having a loop formed thereon and having a spring hook portion for engaging the cow's tail, said strap being extended through the loop of said second clip and a friction band on said strap for holding the end of said strap in position, the parts being so arranged that the friction band may be slid on the strap for varying the distance between said clips for the purposes stated.

1,457,632. RAILWAY FROG. JOHN KERSHENSTEIN, Johnstown, Pa. Filed Aug. 23, 1922. Serial No. 583,828. 7 Claims. (Cl. 246—464.)



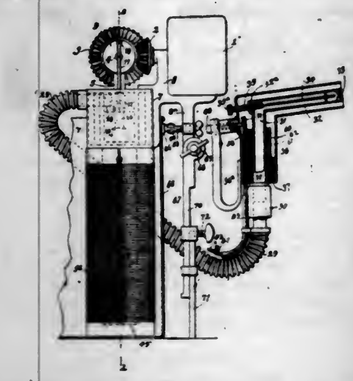
2. A railway frog including a block having intersecting flangeways and provided at one end between said flangeways with an upstanding frog point and at its opposite end between the flangeways with an upstanding double-ended frog point, the latter end of the block being formed at opposite sides of said double-ended frog point with slots to accommodate the ends of rails.

1,457,633. CEILING-BOARD SUPPORT. JOZEF KUBOVCIK, Edwardsville, Pa. Filed Nov. 2, 1922. Serial No. 598,631. 7 Claims. (Cl. 304—6.)



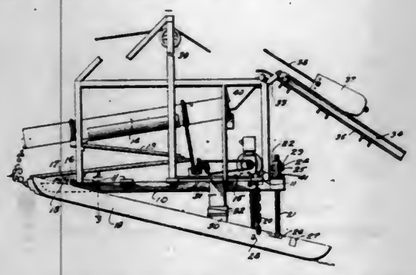
2. A ceiling board support comprising an upper board supporting-frame, and a lifting device upon which it is mounted, together with a base frame carrying said lifting device, said base frame comprising a head block, upwardly converging legs hinged to said head block, a leg bracing and stiffening block spaced below said head block and engaging said legs, and means for detachably securing said bracing and stiffening block in place.

1,457,634. DEVICE FOR SPRAYING HOT FLUID SUBSTANCES. MANUEL HUITRON NERI, Los Angeles, Calif. Filed Apr. 4, 1921. Serial No. 458,391. 8 Claims. (Cl. 91—44.)



1. An apparatus for enameling surfaces with hot tar, comprising an electric motor, a pump, means for transmitting power to said pump and means for electrically heating it, and means for conducting hot tar from said pump, and means for electrically heating said conducting means.

1,457,635. AMALGAMATOR SUPPORT. HARVEY W. RICHARDS, Portland, Oreg., assignor to Score Mining Company, Portland, Oreg. Filed May 2, 1922. Serial No. 557,916. 4 Claims. (Cl. 280—6.)



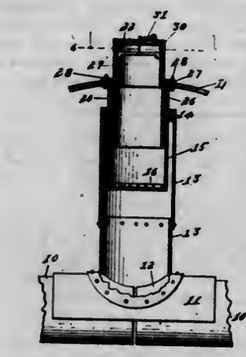
1. A support for an amalgamator comprising a staging, skids movably connected with the staging, means for elevating and lowering one end of the staging with relation to the skids, means for supporting the weight of the staging independently of the elevating means, and means for drawing the staging and skids toward each other to bind the said supporting means.

1,457,636. FARROWING-RAIL BRACKET. DARIUS E. SHRAUGER, Atlantic, Iowa. Filed Feb. 6, 1923. Serial No. 617,225. 3 Claims. (Cl. 119—16.)

3. An improved farrowing rail device comprising in combination two brackets each formed of a piece of structural angle bar hinged together at one end, and two supporting bars each formed of a single piece of strap metal and each hinged at one end to one of the bracket members and hinged together at their adjacent ends, each of the said bracket members being formed with a lug so positioned as to limit the movement of the supporting bars so that they cannot reach a position in alinement with each other, a farrowing rail secured to one member of each bracket designed to normally project inwardly from a side wall above a floor, said supporting bars each being provided with openings designed to receive a pin, said openings being so arranged that when the farrowing rail is moved to a substantially vertical position said openings will be in alinement, and a pin inserted therein to hold the farrowing rail in position parallel with the adjacent side wall, for the purposes stated.



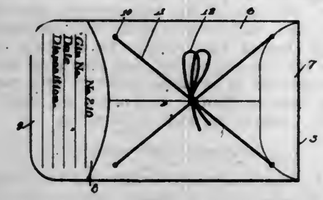
1,457,637. DEVICE FOR CONDUCTING SURFACE WATER TO DRAIN TILES. WILLIAM O. SIEVERS, Newell, Iowa. Filed Sept. 11, 1922. Serial No. 587,641. 8 Claims. (Cl. 182—7.)



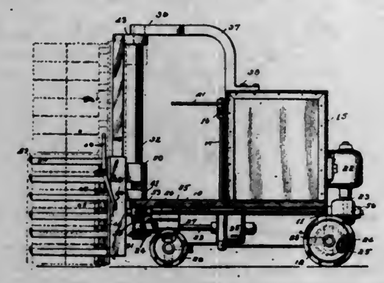
1. A device for conducting surface water to drain tiles comprising a pipe section having its lower end designed to rest upon and communicate with the interior of a tile, and being open at its upper end, a second pipe section slidingly mounted within the first, open at both ends and having an outwardly extended flange at its upper end designed to rest upon the ground surface, and a perforated pipe section slidingly mounted within the last named pipe section open at its bottom and closed at its top and capable of being moved from position where its perforated upper portion extends above the ground surface to position where it is contained within the upper pipe section having a flange and forming a closure for the top of the device, for the purposes stated.

1,457,638. COTTON FILE. DAVID P. SKELTON, Chattanooga, Tenn. Filed July 29, 1920. Serial No. 399,790. 1 Claim. (Cl. 129—15.)

In a filing system, a plurality of superposed containers, said containers having openings disposed adjacent to the corners thereof, the openings of the containers adapted to register, a flexible connecting member extending through the openings and being crossed upon itself over the upper and lower containers, each of said containers having a tongue, said tongues overlying each other and being flexible to permit them to be moved to display the adjacent lower tongue.

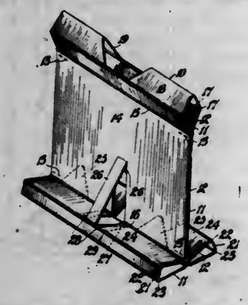


1,457,639. TRUCK FOR HANDLING HOLLOW BLOCKS AND TILE. MERTON T. STRAIGHT, Adel, Iowa. Filed Sept. 27, 1919. Serial No. 326,957. 8 Claims. (Cl. 214—6.)



1. A device for handling hollow tile comprising a frame, having a series of horizontal prongs spaced apart so that each may enter the opening of a correspondingly spaced tile of a series of adjacent and symmetrically arranged tile, means for elevating and lowering said frame, means for swinging said frame in a horizontal plane when in any of its vertical positions of movement, and means for moving said prongs longitudinally into and out of the tile when said prongs are in any of their positions of movement.

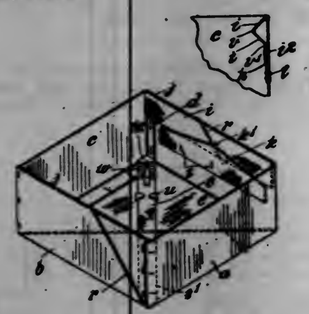
1,457,640. COLLAPSIBLE STAND. WILLIAM POWNALL STUBBS, Leek, England. Filed Aug. 31, 1921. Serial No. 497,289. 1 Claim. (Cl. 40—149.)



A collapsible stand formed from a single sheet of material having a line of fold dividing the sheet into a body portion and a supporting base, said sheet being

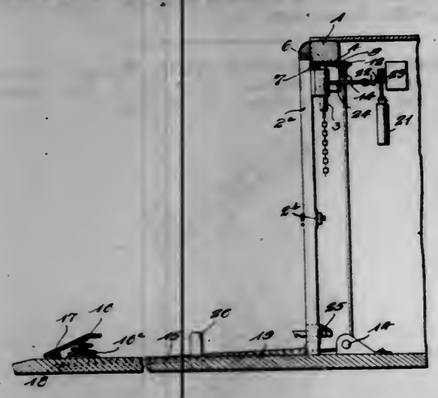
adapted to be folded to extend the base laterally outward with respect to said body portion, said body portion and said base being provided with slits extending across said line of fold to provide a buttress having a free end, the slits in the base portion being diverged relatively and the free end of the buttress being correspondingly formed and adapted for insertion into the space in the base formed by said diverging slits when the base portion is extended laterally with respect to the body portion thereby to provide an interlock between the base portion and said buttress.

1,457,641. COLLAPSIBLE CARTON. WILLIAM POWNALL STUBBS, Leek, England. Filed Aug. 31, 1921. Serial No. 497,290. 1 Claim. (Cl. 229—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



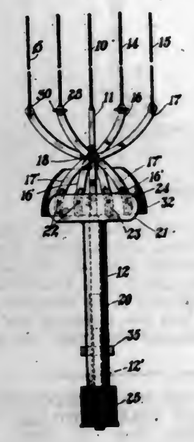
A carton having collapsible sides, three extensions on each of two oppositely disposed sides of said carton adapted to be turned inward to form a projecting rib of triangular cross section, said extensions being relatively connected, and a strip of material secured to each of said two sides effective to retain the adjacent edges of said extensions in inturned position.

1,457,642. GARAGE-DOOR OPENER. ALBERT A. UNRUH, Portland, Oreg., assignor of one-half to E. J. Vennewitz, Portland, Oreg. Filed Nov. 3, 1921. Serial No. 512,576. 6 Claims. (Cl. 292—164.)



1. The combination with a door and a lock therefor, of an operating member disposed at the outer side of said door, and connecting means between said operating member and said lock comprising two operating connections movable relatively without releasing the lock, and means whereby said connections may be operatively connected to permit said operating member to release the lock.

1,457,643. CUTTING IMPLEMENT. ANDREW URBANIK, Central Falls, R. I. Filed Nov. 2, 1922. Serial No. 598,483. 6 Claims. (Cl. 146—12.)



1. A cutting implement comprising a number of pivoted blades arranged side by side, rigid extensions from said blades formed with cam elements, and reciprocable members adapted to engage said cam elements to swing said blades in unison on their pivot points.

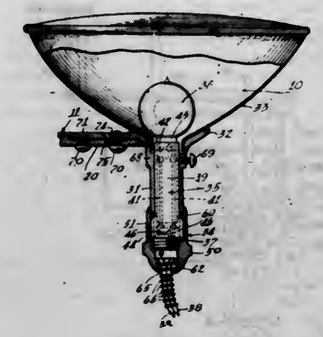
1,457,644. TOWEL RACK. JOHN H. WHITE and CHARLES A. WERNER, Berkeley, Calif. Filed July 19, 1920. Serial No. 397,459. 1 Claim. (Cl. 45—32.)



A towel rack including an octagonal plate having holes inserted therethrough whereby the plate may be attached to a wall, inwardly extending slots from two opposite sides of the plate, the part between the slots being turned up to form clips, a flat U-shaped support attached to the plate by means of the clip being bent over the intermediate member of the support, a holding arm pivoted to said support between the arms thereof, and clamps on said holding arm for holding the towels.

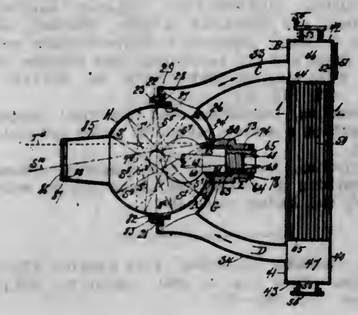
1,457,645. SPOTLAMP. RALPH E. WILLIAMS, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 372,043. 3 Claims. (Cl. 240—41.)

1. In a lamp of the character described, a cylindrical casing, an electrical connector arranged in the casing, a socket formed at the rear end of the electrical connector and extended beyond the rear end of the casing, the socket extension comprising a cylindrical wall the same size as the casing, a cap, a plug carried in the cap and adapted to extend into and co-operate with the socket,



and a cylindrical sleeve extending from the cap to slidably fit over and cover the socket and the rear end of the casing.

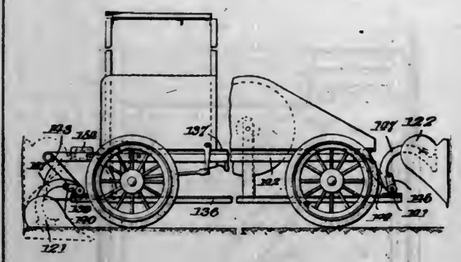
1,457,646. WATER-COOLED LAMP. LYMAN A. WILSON, New York, N. Y. Filed Mar. 26, 1920. Serial No. 368,866. 2 Claims. (Cl. 240—41.)



1. In a water cooled lamp the combination of a source of light, a cup shaped reflector for the source of light, a practically spherical shaped cover for the reflector and spaced therefrom to form a jacket therewith, a supplemental cup shaped reflector detachably connected to the first reflector and oppositely positioned thereto, a light sleeve extending from the second reflector, a glass for the outer end of the light sleeve, a water tank, a channel connecting the upper portion of said jacket and the upper portion of the tank and a channel connecting the lower portion of said jacket and the lower portion of the tank.

1,457,647. TRACTOR. ARCH U. AVERA, Florence, Ala. Original application filed June 18, 1921, Serial No. 478,610. Divided and this application filed July 13, 1922. Serial No. 574,725. 11 Claims. (Cl. 97—27.)

1. The combination with a power driven vehicle, of reversible driving means for driving the same in opposite directions, two sets of plows carried by said vehicle arranged to operate in opposite directions of travel of the vehicle, respectively, a second reversible driving means operable independently of said first driving means to raise one set of plows out of operative position, and lower the other set into operative position, and con-



trol means operable to simultaneously effect a reversal of both said driving means at each end of a predetermined limit of travel of the vehicle.

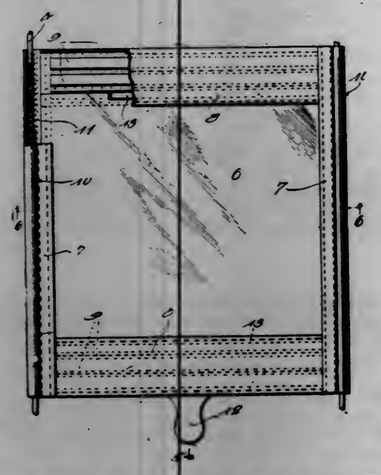
1,457,648. CASING AND TUBING HOOK. WALTER C. BAILEY, Long Beach, Calif., assignor to Regan Forge & Engineering Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 20, 1922. Serial No. 537,704. 4 Claims. (Cl. 24—233.)

1. The combination with a hook of a U-shaped closure member pivotally mounted at its free ends upon the shank of the hook and adapted to swing across the bight, and yielding arms pivotally mounted upon the hook and pivotally connected to said member to hold said member in either open or closed position.

1,457,649. CURTAIN FOR AUTOMOBILES. EMILE E. BOUCHARD, Burlington, Vt. Filed Apr. 4, 1921. Serial No. 458,196. 1 Claim. (Cl. 296—140.)

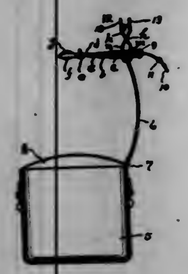
A device of the character described comprising a curtain having a transparent sheet and bindings for the end and side portions of the sheet, the side bindings being formed of material folded longitudinally to provide longitudinally extending open ended pockets positioned beyond the sides of the transparent sheet and having extensions secured to opposite faces of the sheet, coiled springs extending longitudinally in the pockets, and a track structure having side rods each of an even diameter throughout its length and bent to provide a portion for extending transversely of a vehicle top in a substantially

horizontal plane beneath the top and a portion for extending vertically from the horizontally disposed portion and passing through the pockets and springs to



slidably mount the curtain with the springs tightly coiled about the rod to frictionally grip the same at any point and hold the curtain in an adjusted position.

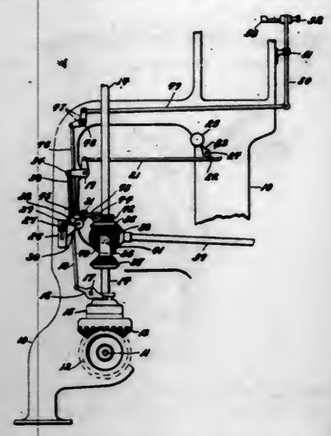
1,457,650. ILLUMINATING DEVICE FOR BURIAL CASKETS. DERRELL E. BROWN, Mondamin, Iowa. Filed Jan. 28, 1922. Serial No. 532,513. 1 Claim. (Cl. 24—73.)



In an illuminating device for a removable mounting upon a support, the combination with a tubular lamp-holder, of a pair of upright, angular lever-members pivotally connected between their ends and providing a pair of opposed wings upwardly of their pivotal connection, and providing a pair of gripping-members below their pivotal connection, each gripping-member consisting of a pair of prongs adapted to lie astride in engagement with the tubular lamp-holder, and means automatically pressing the gripping-members toward each other for engaging the support.

1,457,651. LOCKING DEVICE FOR THE TAKE-UP MECHANISM OF LOOMS. SAMUEL CAME, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 15, 1920. Serial No. 389,123. 2 Claims. (Cl. 139—304.)

1. The combination with the reverse lever of a loom take-up mechanism and the driving connection therefor including a clutch, of a locking device comprising a bearing, a bell crank pivoted on said bearing and having a forked arm cooperating with said reverse lever, and a



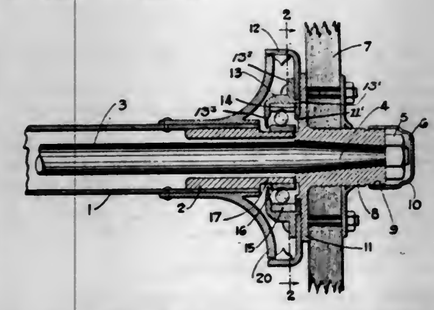
connection from the other arm of the bell crank to a manually operated device also controlling said clutch through which the take-up mechanism is driven.

1,457,652. DISINFECTING, INSECTICIDAL, AND FUNGICIDAL COMPOSITION. HANNS CARSTENS, Leverkusen, and CHRISTIAN HANSEN, Wiesdorf, near Cologne, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Aug. 8, 1921. Serial No. 490,713. 4 Claims. (Cl. 167—6.)

1. Disinfecting, insecticidal and fungicidal compositions comprising a mixture containing sulfur and barium monosulfid.

4. Disinfecting, insecticidal and fungicidal compositions comprising a mixture containing sulfur, sodium monosulfid, and barium monosulfid.

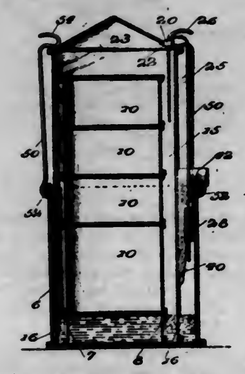
1,457,653. WHEEL BEARING. LUIS CERRATO, Florida, Argentina. Filed Aug. 4, 1921. Serial No. 489,742. 2 Claims. (Cl. 301—3.)



1. In combination, an axle; a tubular casing therefor; a tubular bushing secured in the end of the casing and projecting therebeyond but free of contact with the axle; a wheel having its hub disposed in line with the axle end to receive the same, said hub having a circumferential flange on its inner end provided on its inner face with an annular, concentric rib; an annular washer immediately fitting around and supported by said rib; an annular

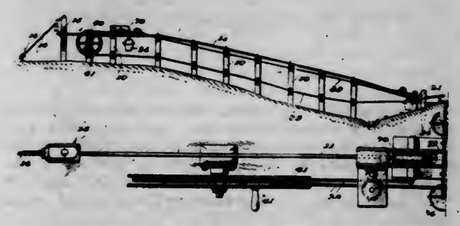
support of angle section having an annular projection which immediately fits around said washer; a brake drum having its inner edge fitting immediately around and supported by said projection and having its central portion interposed between the support and the hub flange; fastening bolts passing directly through the wheel, hub flange, central brake drum portion and support; an inner race member encircling and supported on the projecting end of the bushing; an outer race member arranged interiorly of and contacting with said support and separated from the hub flange by said washer, said support having a continuous in-turned portion which extends across and closes the space between the adjacent edges of the two race members so as to form a lubricant case which prevents access of foreign matter to said space while permitting access of lubricant thereto; and a series of anti-friction bearings disposed in said space.

1,457,654. COOKING UTENSIL. HENRY J. DANIEL, Sutherlin, Va. Filed Jan. 27, 1922. Serial No. 532,137. 5 Claims. (Cl. 53—2.)



1. A cooking utensil comprising a main receptacle, a hood extending into the main receptacle and adapted for the reception of steam, said hood being provided with a steam outlet, a valve for normally closing said steam outlet, and a float arranged within said main receptacle and constituting a means to elevate said valve, said float being located beneath the top of the main receptacle whereby to relieve the steam pressure prior to the overflow of water in the main receptacle.

1,457,655. WATER CARRIER. HENRY J. DANIEL, Sutherlin, Va. Filed Jan. 10, 1923. Serial No. 611,797. 8 Claims. (Cl. 104—112.)

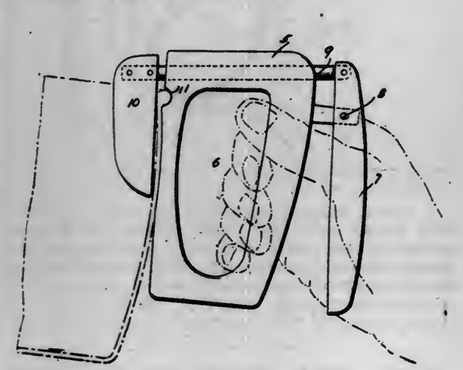


1. A carrier of the character specified comprising a body, wheels carried thereby, a U-shaped yoke having a bight portion rotatably connected to the body and extending transversely thereof, the terminal portions of the yoke being provided with weight supporting means, the weight carried by the terminal portions of said yoke being adapted to hold the wheels in position when the truck reaches the limit of its movement in one direction.

1,457,656. PROCESS OF DESULPHURIZING PETROLEUM AND PETROLEUM DISTILLATES. ALBERT ERNEST DUNSTAN and FERDINAND BERNARD THOLE, Sanbury-on-Thames, England. Filed Sept. 5, 1922. Serial No. 586,346. 3 Claims. (Cl. 196—29.)

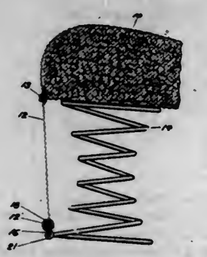
2. A liquid phase process for desulphurizing petroleum and petroleum distillates, consisting of treating the petroleum or petroleum distillate in the liquid phase with a relatively large quantity of a freshly ignited, adsorbtive, dehydrated inorganic gel while said gel is still in a heated state from said ignition.

1,457,657. LIFTING DEVICE. FRANK FAHSBENDER, Paterson, N. J. Filed Nov. 14, 1921. Serial No. 514,984. 4 Claims. (Cl. 294—31.)



1. A lifting device comprising the combination of a pair of relatively movable gripping members and a pair of relatively movable handle members, all four such members being substantially parallel, and an operative connection between one member of one pair and one member of the other pair whereby a movement of one handle member relative to the other effects a movement of one gripping member relative to the other.

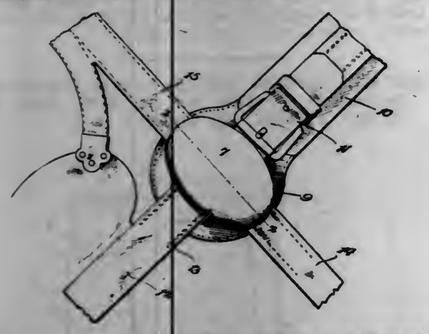
1,457,658. SEAT SPRING. CHARLES F. GREEN, Defiance, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,988. 5 Claims. (Cl. 155—180.)



1. In a device of the class described, including in combination a cushion and a depending skirt therefor, of a spring unit and frame enclosed within said skirt; means for connecting the lower edge of said skirt to said spring unit frame and supporting the same therefrom, comprising a member surrounding the lower edge of said skirt and having integral depending outwardly turned hooks adapted to be bent around and pressed into

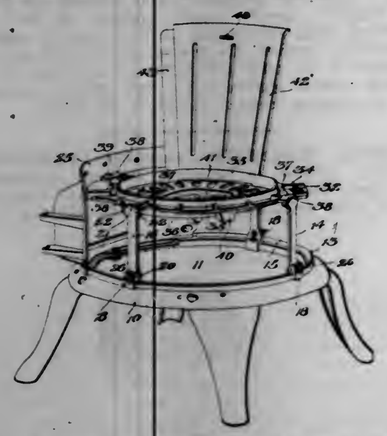
clamping engagement with a portion of said spring unit frame, whereby the spring unit frame is supported in substantially the same vertical plane with the lower edge of the skirt.

1,457,659. HARNESS ROSETTE. JULIUS C. HARPHAM, Lincoln, Nebr. Filed Sept. 9, 1922. Serial No. 587,156. 1 Claim. (Cl. 54—76.)



A harness rosette comprising a base loop of elongated form having cross bars formed integral therewith adjacent its ends, posts rising from said base loop and integral therewith, a top ring carried by said posts and integral therewith, and a sheet metal cap plate fitted over the top ring and having its edge rolled over and under the edge of said top ring.

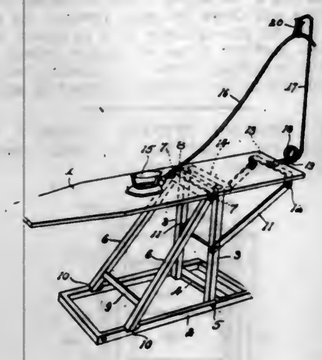
1,457,660. STOVE. FRANK P. HOLLOWAY, Knoxville, Tenn., assignor to Fair Foundry Co., Knoxville, Tenn., a Corporation of Tennessee. Filed Sept. 2, 1922. Serial No. 585,930. 12 Claims. (Cl. 126—58.)



1. In a stove, the combination of a combined grate and fire-bowl support constituted of a plurality of separable sections assembled end to end and having interengaging means at their adjoining ends, a grate detachably and removably mounted on and supported by said support, and a fire-bowl detachably and removably mounted on and supported by said support.

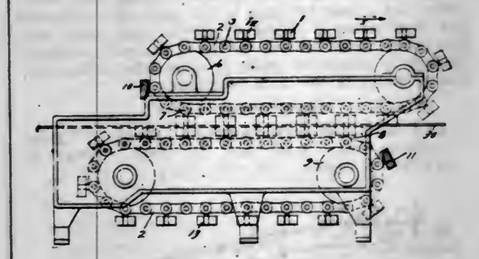
1,457,661. IRONING BOARD. FRANK BANIA, Detroit, Mich. Filed Jan. 30, 1922. Serial No. 532,623. 2 Claims. (Cl. 68—14.)

1. A structure of the character described wherein an ironing board is supported by a foldable frame, said frame comprising a base frame, vertical legs pivotally attached at their lower ends to the base frame to swing downwardly into said frame, a transverse cleat on the lower side of the ironing board intermediate its ends, a transverse pivot member secured to the side of the ironing board in spaced relation to the cleat, said space being adapted to receive and detachably hold the upper ends of the vertical legs, diagonal legs pivotally attached at their upper ends to the pivot member to swing into parallelism with the lower side of the board and adapted



to detachably engage the base frame at their lower ends when the foldable frame is in extended position, and links pivotally attached at one end to the underside of the ironing board adjacent the ends thereof and at their opposite ends to the vertical legs intermediate the ends of said legs to pivotally connect the ironing board to the vertical legs to fold therewith.

1,457,662. MACHINE FOR MAKING SHINGLES. SILAS M. FORD, St. Paul, Minn. Filed Aug. 2, 1919. Serial No. 315,032. 8 Claims. (Cl. 164—28.)

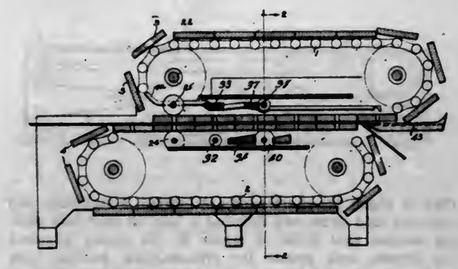


1. In a machine for making shingles through the operation of dies carried in die bars, the combination with one of said die bars, of a slidable lock block mounted therein and adapted to engage with an aperture in the co-operating die bars, and means for moving said lock block into and out of engagement with said second named die bar.

1,457,663. SHINGLE-MAKING MACHINE. SILAS M. FORD, St. Paul, Minn. Filed Nov. 19, 1919. Serial No. 339,175. 8 Claims. (Cl. 164—87.)

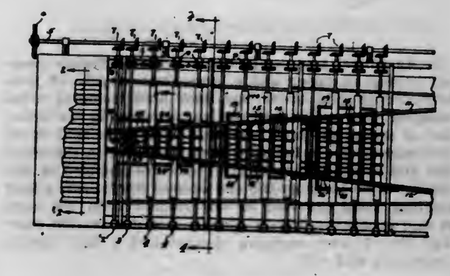
1. In a shingle making machine the combination with a plurality of travelling bars, of means for causing said bars to travel through a predetermined distance in a given plane, means for causing said bars to travel with

a circular motion, a punch slidable in one of said bars, a cam co-acting with said punch and taking control of



said punch while its bar is travelling in a circular motion, said punch co-operating with said cam throughout the motion of said bar in said predetermined plane.

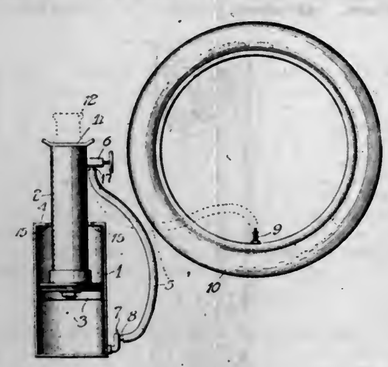
1,457,664. MACHINE FOR MAKING LATH BOARDS. SILAS M. FORD, St. Paul, Minn. Filed Dec. 15, 1921. Serial No. 522,668. 14 Claims. (Cl. 154—30.)



4. In a machine for making lath board, the combination with a plurality of rollers for passing a sheet of corrugated material through the machine with the corrugations thereof running longitudinally of the machine, of a pair of forming fingers for acting on the central corrugation of the sheet, two pairs of forming fingers for acting on the two corrugations adjacent to the central corrugation of the sheet, and a plurality of such pairs of forming fingers for successively acting upon each of the corrugations of said sheet.

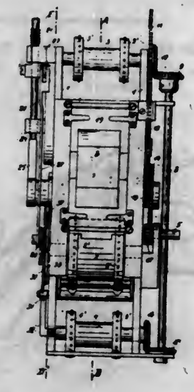
1,457,665. COMBINATION PNEUMATIC JACK AND TIRE INFLATER. WILLIAM B. LUCAS, Oak Park, Ill. Filed Sept. 6, 1921. Serial No. 498,685. 1 Claim. (Cl. 138—9.)

A combination jack and tire inflater having a high pressure storage chamber to contain a normally gaseous fluid in liquid form under high pressure, an expansion chamber arranged to receive fluid from said storage chamber to operate said jack and a tubular connection having one end communicating with said storage cham-



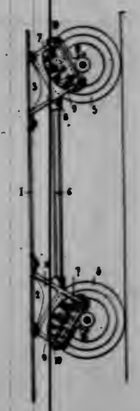
ber and its other end being interchangeable with respect to said expansion chamber and a tire to be inflated.

1,457,666. APPARATUS FOR DISPLAYING ADVERTISEMENTS. WALTER MANNOWSKI, Berlin-Nowawes, Germany, assignor to The Firm Ditta "Rema," Milan, Italy. Filed Mar. 23, 1922. Serial No. 546,881. 2 Claims. (Cl. 88—18.2.)



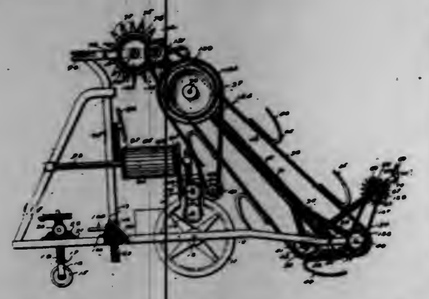
1. An improved apparatus for displaying advertisements on endless bands, specially film bands, comprising in combination a drum for bringing the film before the projection window, a source of power, a transmission gear and means for driving said drum in such a manner that the drum stops for a determined (short) time when the advertisement to be displayed stands behind the window whereupon said drum is suddenly and rapidly revolved for a distance corresponding to the length of one picture upon the film band, said driving means consisting of a ratchet wheel on said drum, a cam keyed upon the shaft of said transmission gear, a spring controlled rod mounted upon said cam, a connecting rod hingedly connected at its upper end with said rod, a lever hingedly connected with the lower end of said connecting rod, a spring influenced pawl pivotally mounted upon said lever engaging with said ratchet wheel so that, if said rod drops suddenly from the highest point of said cam the pawl is operated and makes the drum suddenly revolve for the length of one tooth of said ratchet wheel.

1,457,667. ROLLER SKATE. CHARLES ALFRED MIDON, Paris, France. Filed Sept. 19, 1919, Serial No. 324,862. Renewed Oct. 21, 1922. Serial No. 596,166. 1 Claim. (Cl. 46—51.)



In a roller skate, a bridge piece having an axle for a pair of rollers, a support having a recess in the lower portion of which the bridge piece is arranged, a securing pin passing through said bridge piece and also through opposite walls of the support, a rubber block in the recess of the support and bearing on the bridge piece, the said axle being in the plane vertically below the center of the block.

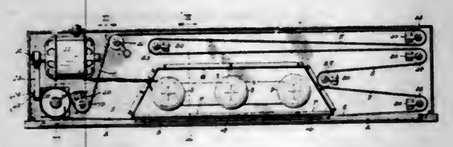
1,457,668. MANURE LOADER. FAY EDISON NULL, Urbana, Ill. Filed May 27, 1921. Serial No. 472,947. 8 Claims. (Cl. 198—13.)



7. In a machine of the character described, a main frame, an elevator pivotally mounted upon the main frame, a beater cooperating with the elevator, and an extractor coacting with the elevator at the delivery end thereof.

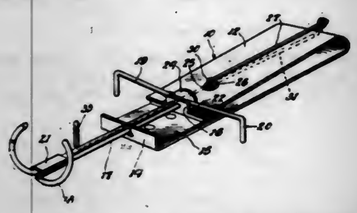
1,457,669. MOVING SIGN. PAUL L. ODLE and GUY L. ODLE, Detroit, Mich. Filed Oct. 20, 1920. Serial No. 418,210. 2 Claims. (Cl. 40—32.)

1. In a device of the character described, the combination of a casing having an opening in the front wall thereof, a plate closing said opening, a reflector chamber in the casing opposite said opening with a space at each end thereof between it and the casing ends, said chamber being also spaced from the said plate, a lamp in the chamber, an endless belt having characters depicted thereon, rolls in the casing over which the belt travels and arranged to provide a plurality of runs comprising long runs extending longitudinally of the casing between the back wall thereof and the back of said chamber and short runs between one end of said chamber and one end of the casing, with a single long run adjacent the front wall of the casing passing between said chamber and said plate closing the opening in the front of the casing, a driving drum located at the end of the casing opposite



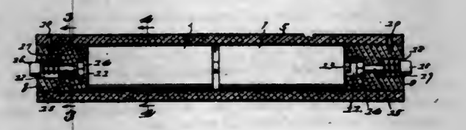
that in which the short runs are located, a tightener roll adjacent said drum and forming a loop in said belt passing around said drum, a motor in the casing adjacent the drums, and means for transmitting motion from said motor to said drum to impart a traveling motion to said endless belt.

1,457,670. ANIMAL TRAP. ANDREW N. PIETROK, Stayton, Oreg. Filed June 3, 1922. Serial No. 565,650. 2 Claims. (Cl. 43—91.)



1. An animal trap comprising a V-shaped flexible member having an upper and a lower leaf, a pair of jaws journaled in said lower leaf, said jaws including arms engaging with said upper leaf to be swung in the direction of closing the jaws, means for depressing said upper leaf, said means including a lever fulcrumed in the lower leaf and extending through an aperture provided in the upper leaf, a ledge at the end of said lower leaf, alined bearings being provided in said ledge and in the apex of said member, a trigger slidably mounted in said bearings, and a lever engaging element and a bait holding element on said rod.

1,457,671. BATTERY CASE AND SWITCH. WILLIAM HURLEY RECTOR, Williamson, W. Va. Filed Jan. 17, 1923. Serial No. 613,284. 1 Claim. (Cl. 204—29.)



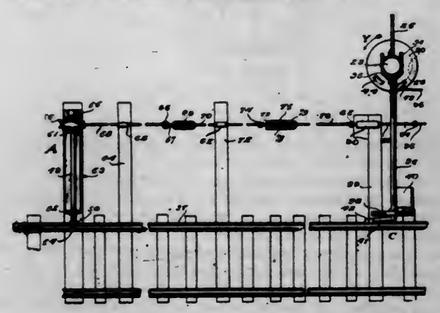
In a battery case and switch, a tubular battery enclosing device, heads applied to the ends of the tube, each of said heads comprising a plug having recesses in its inner and outer ends, a shank slidable through the plug and having a head on its inner end operative in the recess in the inner end of the said plug for engaging the terminal of the battery and for limiting the outward movement of the shank, and means for normally holding the shank projected outwardly.

1,457,672. ANIMAL POKE. ALOYS J. REISENAUER, Colton, Wash. Filed July 25, 1922. Serial No. 577,303. 3 Claims. (Cl. 119—136.)



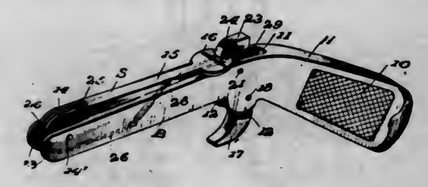
1. An animal poke comprising a single piece of wire fashioned with a spring coil and diverging arms, said arms having opposed laterally extending bows and hooks at their extremities adapted to pierce the animal's ears, and means for retaining said arms against divergent opening movement.

1,457,673. RAILWAY SIGNAL. ANNIS OLI RUSSELL, Story City, Iowa. Filed Sept. 11, 1922. Serial No. 587,476. 7 Claims. (Cl. 246—293.)



1. A railway signal system comprising a base, a signal post revolubly mounted on said base, means inserted between said base and said post tending to turn the post in one direction, an actuating lever adapted to be depressed by a passing car wheel over the railway track, and tensioning means between said actuating lever and said post; whereby, upon the depression of the actuating lever, the signal post will be turned through the intermediary of said tensioning means against the action of said turning means.

1,457,674. FLY SHOOTER. BERT KENNEDY and LEWIS SAIGER, Gloversville, N. Y. Filed Apr. 22, 1922. Serial No. 555,999. 6 Claims. (Cl. 43—135.)

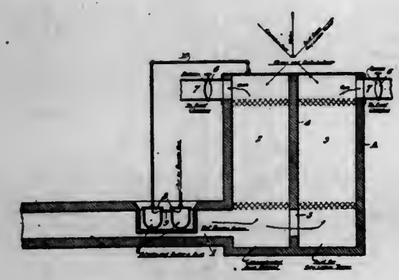


3. A pistol of the character described, comprising a stock provided at its one end with a handle and having its other end bifurcated, a striker consisting in an elongated member having its one end pivoted between the prongs afforded by the bifurcated ends of said stock, a hammer pivotally mounted at the rear end of the stock, an elastic connected to the pivoted end of said striker and extended rearwardly and connected to said hammer whereby to urge the hammer forwardly, a head upon said hammer adapted to engage and hold the striker in a rearward swung position, and a trigger adapted to move the hammer for releasing said striker.

1,457,675. PHARMACEUTICAL PRODUCT. WALTER SCHOELLER, Freiburg, Breisgau, Germany. Filed Aug. 24, 1922. Serial No. 584,135. 2 Claims. (Cl. 260—13.)

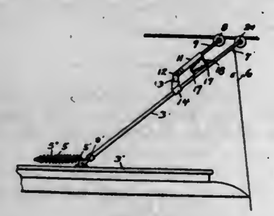
2. As a new product the new mercury compounds derivable from diallylmalonic acid and mercury sulfate, which new product crystallizes in the shape of the free carboxylic acid from hot aniliu in glistening plates almost insoluble in the usual organic solvents; being a valuable therapeutic; forming soluble salts with alkali metals and double salts with alkali salts of amino acids, which salts retain the valuable therapeutic properties of the free acid, substantially as described.

1,457,676. PROCESS OF MAKING SULPHURIC ACID AND APPARATUS THEREFOR. FRANK G. STANTIAL, Melrose, Mass., assignor to Merrimac Chemical Company, Woburn, Mass., a Corporation of Massachusetts. Filed May 27, 1922. Serial No. 564,160. 11 Claims. (Cl. 23—1.)



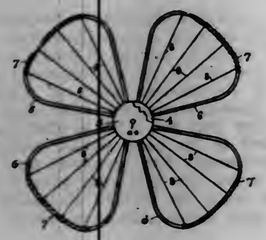
7. Apparatus for concentrating sulphuric acid comprising acid denitrating and concentrating towers, means for supplying said towers with acid directly from the same source, means for supplying said towers with hot gases directly from the same source, and means for varying the ratio of acid to hot gases supplied to said towers.

1,457,677. TROLLEY REPLACER. MILES M. SYKES, San Francisco, Calif. Filed Oct. 26, 1922. Serial No. 597,114. 6 Claims. (Cl. 191—74.)



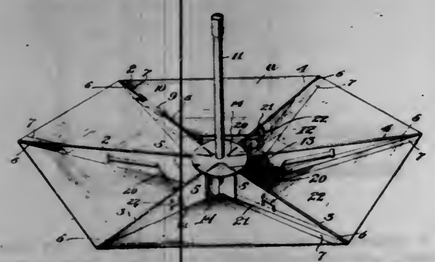
1. In a device of the character described, a trolley wire, a trolley adapted to engage the same, a slanting support for the trolley having means associated therewith for forcing the trolley against the wire and a member having flaring flanges thereon formed to engage the wire only when the latter becomes disengaged from the trolley and to re-engage the trolley with the wire.

1,457,678. PHONOGRAPH TONE RECTIFIER AND AMPLIFIER. CHARLES A. TREMAIN, Bellingham, Wash. Filed Jan. 10, 1922. Serial No. 528,159. 1 Claim. (Cl. 274—39.)



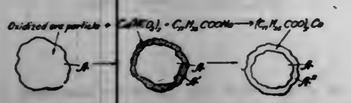
In a phonograph tone improver in combination a metal disc having a central hole, a plurality of spring-metal loops fastened to said disc in the plane thereof, and a plurality of spring-steel wires stretched taut between said disc and said loops and fastened thereto.

1,457,679. UMBRELLA. SIDNEY C. VINCENT, Baltimore, Md. Filed Aug. 11, 1921. Serial No. 491,435. 7 Claims. (Cl. 135—20.)



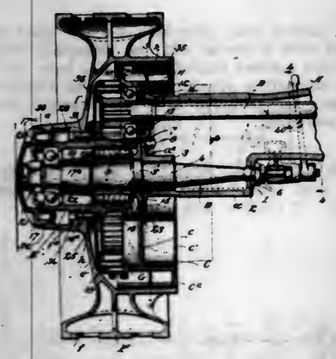
3. An umbrella comprising a canopy normally completely severed from its center to its margin, means for securing the canopy edges together when the canopy is in unfolded position, a plurality of V-shaped ribs secured to the underside of the canopy with their angles converging at the center thereof, a rod carrying near its top a disk adapted to overlie the angles of the ribs, said disk being further provided with a plurality of spanner sections adapted to lie within the angles of the ribs, the rod being adapted to extend through the canopy, and means above the canopy for further securing the rod to the canopy.

1,457,680. FLOTATION PROCESS. WILLIAM A. WHITAKER, New York, N. Y. Filed Aug. 23, 1919. Serial No. 319,514. 2 Claims. (Cl. 83—85.)



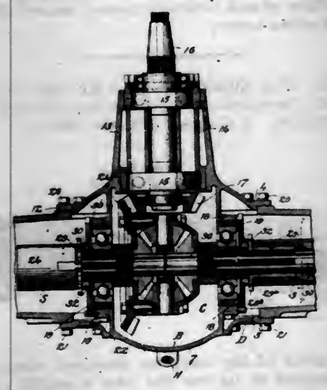
1. The process of concentrating oxidised ores and the like which consists in forming on the metal containing particles by chemical reaction, a film or envelope of an organic compound of the metal of the ore, this film or envelope having the characteristics of capability of attachment to a gas bubble, and difficult solubility in water, and then subjecting the thus treated material to froth flotation.

1,457,681. MOTOR-TRUCK AXLE. RICHARD A. WHITTINGHAM, Newark, Del., assignor to Atlas Axle Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 5, 1919. Serial No. 335,916. 3 Claims. (Cl. 188—79.)



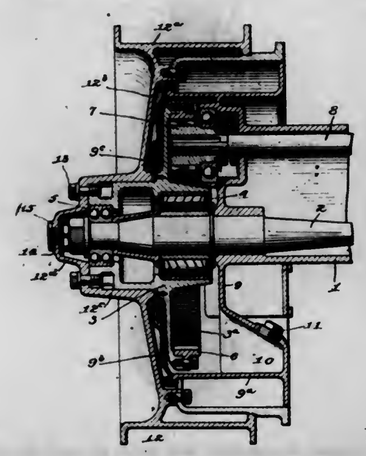
1. The combination with an axle housing and a wheel spindle projecting therefrom, of a brake housing comprising a web portion, secured to the end of the axle housing, a rim portion concentric with the spindle and an annular flange projecting radially outward from the inner end of the rim portion, said rim portion consisting a support for the brake bands, and a wheel mounted on said spindle and having a brake drum extending around said rim portion and close to said flange.

1,457,682. MOTOR-TRUCK AXLE. RICHARD A. WHITTINGHAM, Newark, Del., assignor to Atlas Axle Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 5, 1919. Serial No. 355,917. Renewed Jan. 27, 1923. 5 Claims. (Cl. 74—7.)



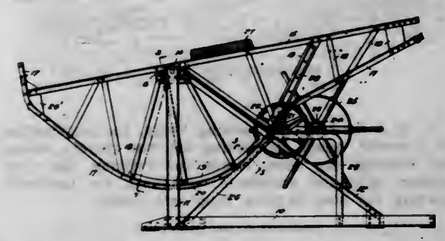
3. The combination with an axle housing, a differential casing removably supported within the housing, and a differential assembly in said casing, of drive shafts in said housing each having a telescopic part movable into and out of said housing.

1,457,683. TRUCK WHEEL. RICHARD A. WHITTINGHAM, Newark, Del., assignor to Atlas Axle Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 6, 1920, Serial No. 428,557. Renewed Jan. 27, 1923. 2 Claims. (Cl. 74—7.)



1. The combination with an axle casing, a wheel spindle projecting therefrom, a gear journaled upon the spindle and having an outwardly extended hub, and a housing enclosing said gear, said gear hub projecting through the housing and the interior of said housing being in communication with the bearings of said hub, of a vehicle wheel having a hub fitting on to the gear hub and having a cap, integral with the wheel hub, extending over the end of the gear hub and spindle.

1,457,684. ERECTION OF CONCRETE BUILDINGS. ROBERT H. AIKEN, Winthrop Harbor, Ill. Filed Apr. 17, 1922. Serial No. 553,510. 5 Claims. (Cl. 25—131.)



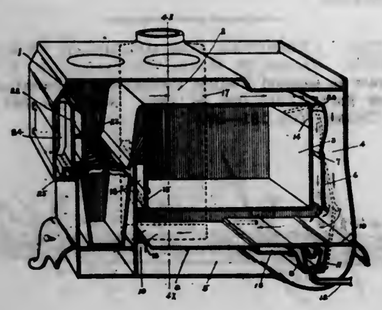
1. In apparatus of the class described, the combination with a supporting frame, of a series of like truss beams all pivotally supported between their ends on a transverse axis with their upper members in an approximately horizontal plane and bearing a floor upon which a concrete wall may be formed, the lower members of all the trusses being marginally geared, far below the upper members, curved about said axis, extending obliquely toward the ends of the upper members, and engaged respectively, by worm gears mounted on a power shaft.

1,457,685. AUTOMOBILE TOP STAY STRAP. GEORGE S. AVEY, Cincinnati, Ohio. Filed Apr. 25, 1922. Serial No. 556,398. 5 Claims. (Cl. 296—144.)

5. An extensible stay of the type described which comprises a single strap folded upon itself to form three adjustable loops, one of which is disposed centrally of the other two and in which the parts of said strap which form portions of the center loop also form respectively a portion of each end loop, and means carried by each end loop for supporting the stay strap in operative position.



1,457,686. RANGE. EDWARD C. BEERS, Rochester, N. Y. Filed Oct. 7, 1920. Serial No. 415,405. 8 Claims. (Cl. 126—36.)

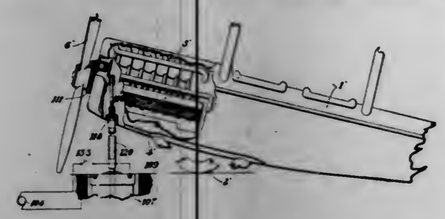


1. In a range, the combination of an oven, a double flue at the bottom of said oven, the upper half of said double flue being connected with the lower half of said double flue, a back flue at the rear of said oven and adjacent thereto, the lower half of said double flue having an exit into said back flue.

1,457,687. MEANS AND METHOD FOR STARTING AIRPLANE ENGINES AND THE LIKE. JOSEPH BIJUR, New York, N. Y., assignor to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Jan. 8, 1919. Serial No. 270,236. 14 Claims. (Cl. 244—31.)

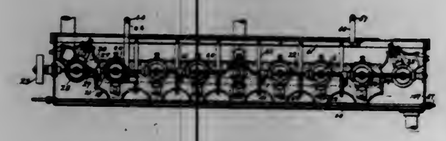
1. In starting apparatus for airplanes and the like, in combination, an airplane engine, a source of cranking

power external of the airplane, a quick-detachable connection between said source and said engine, adapted to



separate upon said airplane starting locomotion, and means for relieving the strain exerted by said airplane on said connection prior to separation.

1,457,688. PROCESS OF AND APPARATUS FOR RENOVATING COATED METAL SHEETS. CHARLES F. H. BOHNHARDT, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Mar. 8, 1919. Serial No. 281,366. 26 Claims. (Cl. 204—1.)



1. The herein described process of renovating coated tin-plated metal sheets and the like, which comprises immersing the sheets in an electrolytic bath charged with chemical ingredients of a character to soften the coating, and removing the softened and loosened coating from the tin-plate.

1,457,689. CROSSOVER FOR OVERHEAD TROLLEY LINES. GEORGE W. BOWER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1922. Serial No. 597,753. 4 Claims. (Cl. 191—37.)



1. In a crossover for trolley lines, the combination of two beams having wire clamping plates connected to their ends through insulation, sectional track members suspended beneath said beams and arranged to provide transverse passageways between their adjacent ends, and means for supporting crossing wires in said passageways.

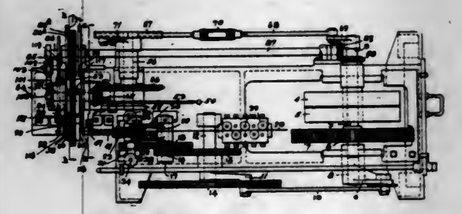
1,457,690. ELECTRICAL HEATER FOR OIL WELLS. PERCIVAL F. BEINE, Boston, Mass., assignor to Oil Wells Renewal Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 22, 1921. Serial No. 454,582. 14 Claims. (Cl. 219—53.)

1. An electric heater for oil wells, comprising a pair of hollow liquid tight heads, tubes connecting said heads, electrical resistance coils mounted within the tubes in spaced relation to the walls thereof, a substance filling the space between the coils and the tubes for conducting heat from the coils to the tubes, tube spacing



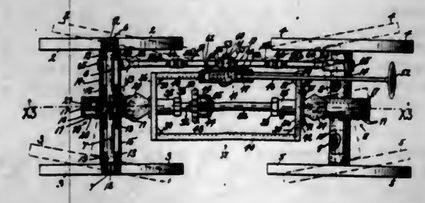
means located intermediate said heads to hold the tubes in spaced relation, and conductors for supplying current to said coils.

1,457,691. WIRE-HOOP MACHINE. GEORGE E. BULL, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 9, 1922. Serial No. 535,348. 17 Claims. (Cl. 140—88.)



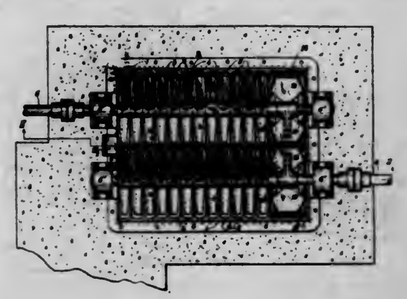
1. In a machine for forming hoops, the combination of a former, means for feeding the wire thereto, means for severing the wire, means for twisting the overlapping wire and automatic mechanism for positively ejecting the hoop entirely from said former.

1,457,692. TRACTOR. SAMUEL C. CARTER, Los Angeles, Calif. Filed Sept. 8, 1919. Serial No. 322,583. 22 Claims. (Cl. 180—50.)



1. In a tractor, front and rear axle housings, a frame interposed between said housings, and L-shaped posts connecting said housings and said frame, the vertical arms of said posts being pivotally connected to said axle housings.

1,457,693. PULVERIZING MACHINE. CHARLES A. DORN, Canton, Ohio. Filed Oct. 15, 1921. Serial No. 507,932. 8 Claims. (Cl. 83—11.)



1. A pulverizing machine comprising a horizontal twin cylinder case having a longitudinal segmental opening between the cylinders, rotating beaters in the cylinders creating a cyclonic action in the segmental opening, a material inlet means at the forward end of the case and suction means at the rear end thereof drawing and discharging pulverized material therefrom.

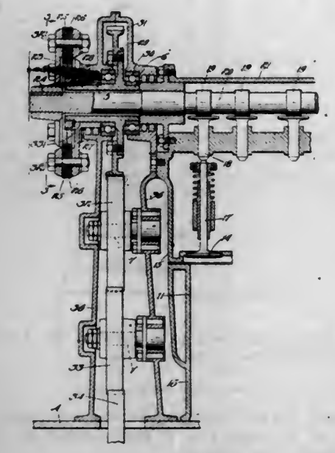
1,457,694. POWER-TRANSMISSION DEVICE. WILLIAM H. DOUGLAS, New York, N. Y. Filed Oct. 23, 1919. Serial No. 332,650. 1 Claim. (Cl. 192—8.)



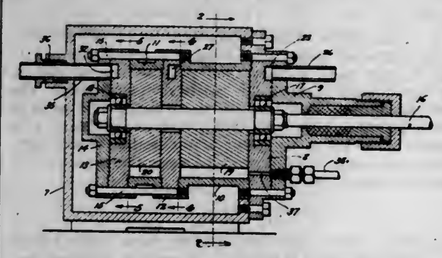
In a device of the class described, a driven member and a fixed member, means normally locking the driven member against rotation in one direction said means comprising wedging surfaces between the two members, and an element movable to and from said wedging surfaces, two spaced projections on the driven member and a flat spring having one arm secured to the driven member, the other arm passing between said projections and engaging the wedging member and normally tending to move it toward the wedging surface.

1,457,695. INTERNAL-COMBUSTION ENGINE. STEPHEN I. FEKETE and STUART G. BAITS, Detroit, Mich., assignors to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Aug. 16, 1919. Serial No. 317,954. 4 Claims. (Cl. 123—90.)

4. In an internal combustion engine, an engine cylinder having a valve, a cam shaft mounted on said cylinder for operating said valve, a universal joint on one end of said cam shaft, an actuating member being located between said universal joint and the cylinder, and means for supporting said member independently of said cylinder.



1,457,696. COMPRESSOR. ETHELBERT T. FORD, Los Angeles, Calif., assignor to Fordartic Refrigeration Company, Los Angeles, Calif., a Corporation of California. Filed June 8, 1920. Serial No. 387,395. 3 Claims. (Cl. 230—30.)

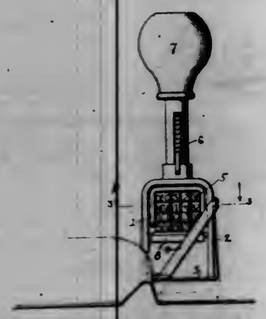


2. A compressor comprising in combination, a rotor chamber, a rotor eccentrically disposed in said chamber and in contact with the wall thereof, blades slidably disposed in pockets in said rotor, said chamber having side walls, one of said walls having a main inlet port communicating with said chamber behind the line of contact of said rotor and an auxiliary inlet port in advance of said main inlet port and adjacent to said line of contact, the other of said walls having a main outlet port in communication with said chamber in advance of said line of contact and an auxiliary outlet port adjacent said line of contact and behind said main outlet port.

1,457,697. HAND-STAMP FRAME. WILLIAM A. FORCE, Jr., Kew Gardens, N. Y., assignor to Wm. A. Force & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 8, 1922. Serial No. 587,012. 2 Claims. (Cl. 101—108.)

1. A frame for hand stamps comprising a substan-

tially U-shaped frame adapted to contain printing mechanism, one leg of said frame being shorter than the other,



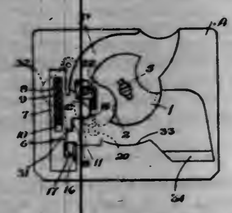
and a bottom plate secured to the long leg of the frame and extending toward the short leg.

1,457,698. HAIR CURLER. WALTER ADAM GILL, Riverside, N. J. Filed Dec. 2, 1922. Serial No. 604,489. 2 Claims. (Cl. 132—41.)



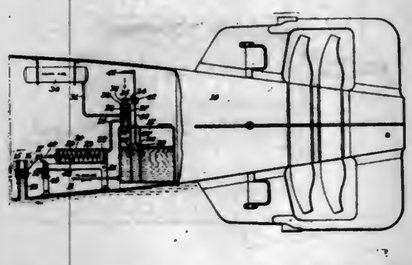
2. In an article of the class described, a pair of normally separated spring arms integrally joined together at one of their ends, a hook upon the free end of one of the arms, and adapted for receiving therebeneath the free end of the other arm, for maintaining said arms in closed relation with each other, and an auxiliary arm loosely connected to the point of connection of said first mentioned arms and adapted to have its opposite end engaged beneath the said hook.

1,457,699. COIN-TESTING MECHANISM FOR COIN-CONTROLLED MACHINES. ALBERT D. GROVER, New York, N. Y., assignor, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed Aug. 24, 1917, Serial No. 187,935. Renewed Apr. 30, 1919. Serial No. 293,809. 23 Claims. (Cl. 194—102.)



23. In a coin-controlled machine, a rotatable coin-carrying disk, a movable member mounted to operate in a plane transversely to the plane of said disk, and means on said member for entering the hole of a washer and for engaging the edge of a too-small coin or check held in said disk, whereby said disk is locked against further forward rotation, said means permitting reverse rotation of the disk for removal of the intercepted coin or check.

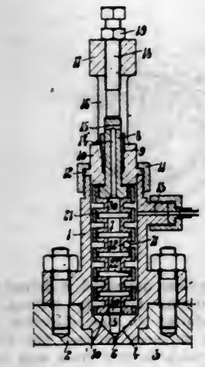
1,457,700. MECHANISM FOR SINKING TORPEDOES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 23, 1918, Serial No. 267,993. Renewed Oct. 27, 1922. Serial No. 597,428. 9 Claims. (Cl. 114—20.)



1. In combination a marine body, a fuel tank on said body, and means operated by a change of level of the fuel in said tank to a predetermined point for causing said body to sink.

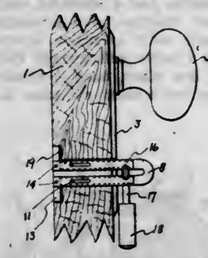
7. In a self-propelled movable body, a fuel tank, means controlled by the amount of fuel in said tank to exert a predetermined effect on the course of said body.

1,457,701. FUEL-INJECTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. KNUT JONAS ELIAS HESSELMAN, Saltsjo-Storangen, Sweden. Filed Mar. 26, 1920. Serial No. 369,069. 2 Claims. (Cl. 299—133.)



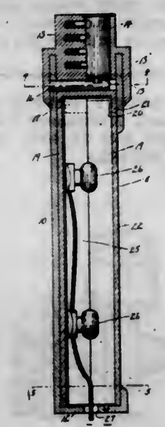
1. In a device for injecting fuel under pressure in internal combustion engines, a casing having a chamber, a fuel inlet and a fuel outlet, an injection valve in said chamber comprising a needle valve to control said outlet, a flexible hollow member carrying said needle valve, said member being formed by a plurality of pairs of annular diaphragms the diaphragms of each pair being connected at their inner edges by means of cylindrical walls formed integral with said diaphragms, the diaphragms of adjacent pairs being connected by separate rings embracing them, spacing means being provided to hold said pairs at proper distances apart.

1,457,702. KEYHOLE GUARD. SIGURD JAHR HOFF, New York, N. Y. Filed Mar. 28, 1922. Serial No. 547,444. 2 Claims. (Cl. 70—8.)



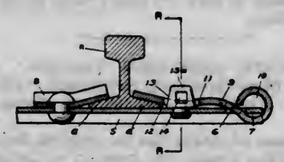
1. A lock of the class described comprising a pair of rigid parallel bars, slotted tubular members slidable on said bars, locking dogs pivoted at the ends of said tubular members, and adapted to be locked in extended position and means for locking the said dogs in locked position.

1,457,703. AUTOMOBILE SIGNAL. JAMES F. HUGHES, Bridgeport, Conn. Filed June 28, 1922. Serial No. 571,447. 3 Claims. (Cl. 40—15.)



1. An automobile signal comprising a tubular casing formed with a sight-opening, a tube within said casing, and having differential faces, a plug mounted in the top of the casing and interlocked with said tube, and means for locking the plug with said casing.

1,457,704. METAL CROSSTIE. CARL L. KENNEY, Dormont, and STANLEY M. CASTERLINE, Crafton, Pa.; said Kenney assignor to said Casterline. Filed July 28, 1922. Serial No. 578,149. 6 Claims. (Cl. 238—354.)



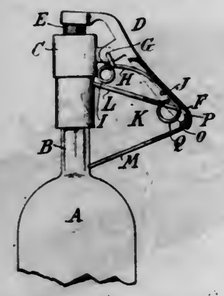
1. A rail tie comprising a cross tie member, means on said tie member for engaging one side of a rail, a strap for engagement with the other side of the rail hingedly secured to said tie and movable into and out of rail engaging position, a projecting member on said tie, said strap having an opening therein through which said projecting member extends when the strap is in rail engaging position, and a cross member slidably engaging the projecting member and adapted to extend over said strap when said strap is in rail engaging position, for locking the strap in such position.

1,457,705. BICYCLE BELL. JOSIAH R. KIDNEY, East Hampton, Conn., assignor to The N. N. Hill Brass Co., East Hampton, Conn., a Corporation. Filed Apr. 4, 1923. Serial No. 629,838. 1 Claim. (Cl. 116—158.)



A bicycle bell, comprising a frame, a vertically-arranged post mounted therein, a rotary hammer, a pinion adapted to rotate said hammer, and a lever formed with a rack meshing with said pinion and with an integral arm turned over one face of the lever and parallel therewith, said arm and lever formed with perforations adapting the lever to set over said post.

1,457,706. SAFETY DEVICE FOR BOTTLES. HENRY P. KRAFT, Ridgewood, N. J. Filed Apr. 20, 1921. Serial No. 463,009. 7 Claims. (Cl. 215—64.)

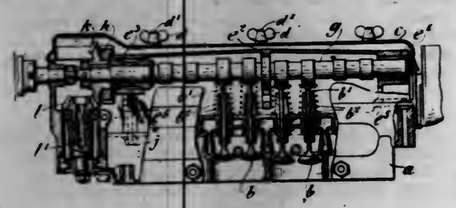


1. The combination with a bottle and a spring pressed stopper therefor, of a guard supplemental to the spring adapted to hold the stopper in its closed position.

1,457,707. CAM-SHAFT UNIT. AUGUST H. LEIPERT, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 5, 1919. Serial No. 302,056. 1 Claim. (Cl. 123—90.)

In combination with an engine head, two sets of valves and two actuating cam shafts therefor, respectively, a driving gear carried on one cam shaft, meshing gears carried on the cam shafts whereby rotation is imparted from the first named cam shaft to the other, a one-piece

mounting carrying bearings for said shafts and open at its lower side to expose the cams to the valve stems, means to secure the mounting removably to the engine head whereby it may be removed from the head with the cam



shafts and gears without disturbing the associated elements of the engine and leaving the valves in place in the engine, and a separate cover plate removable independently of the mounting and completely encasing said mounting and valve stems.

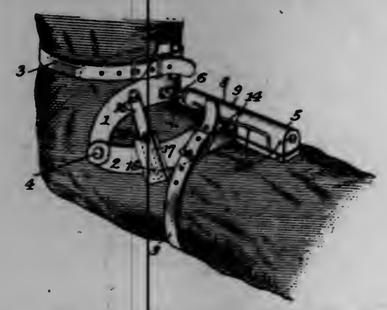
1,457,708. COMPOSITION OF MATTER. ROYER LUCKENBACH, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Feb. 7, 1920. Serial No. 357,043. 9 Claims. (Cl. 252.)

1. A composition of matter, comprising a pyrogeneous bitumin, the reaction product of a phenol and an alkali, and the reaction product of acetone and an alkali.

1,457,709. EXPLOSIVE. CHRISTEN JOHANNES STAUTSBÖLL LUNDSGAARD, Vejen, Denmark. Filed Sept. 1, 1920. Serial No. 407,308. 5 Claims. (Cl. 52—2.)

1. An explosive comprising a perchlorate of an organic cyclic ammonium compound.

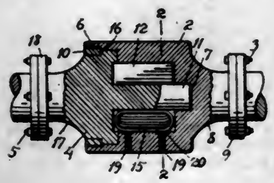
1,457,710. ARM LOCK FOR GOLF PLAYERS. JAMES MAXWELL MACDONALD, East Orange, N. J. Filed Mar. 10, 1922. Serial No. 542,593. 6 Claims. (Cl. 46—4.)



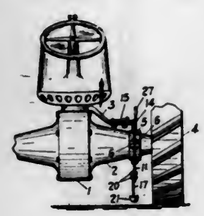
1. An arm lock for golf players, comprising in combination two parts or elements adapted for attachment to the biceps and forearm respectively, and hinged together, and locking means for holding the same in fixed relative position operating upon their change of relative position due to straightening of the arm to full length.

1,457,711. LINE-SHAFT SHOCK ABSORBER. BERENT A. MIKKELSON, Seattle, Wash. Filed May 12, 1921. Serial No. 468,906. 1 Claim. (Cl. 64—100.)

A line shaft shock absorber, comprising a hollow casing member having an open end and a closed end, the latter provided with a central recess, a complementary member closing the open end of the casing member and provided with a circumferential revoluble connection therewith including a coupling ring adapted to resist thrust in one direction and a shoulder bearing to resist thrust in the other direction, said complementary member having an outer shaft extension integral therewith and provided with a collar enlargement having bolt connection with the line shaft, said complementary member having also an inner shaft extension integral therewith and engaging said recess and a radial lug integral therewith and with said inner shaft extension and bracing the same, said inner shaft extension being of less diameter than said outer shaft extension, and a flattened spiral spring within the casing member and engaging said lugs, said casing member having a shaft extension integral therewith and having a collar enlargement having bolt connection with the line shaft.



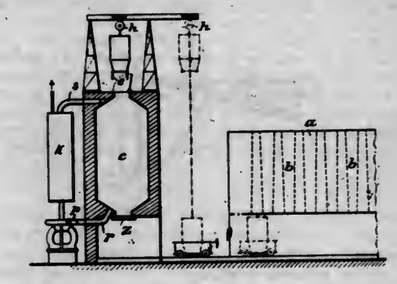
1,457,712. SAFETY DEVICE FOR TRACTORS. ERNEST R. MILLER, Montgomery County, near Centerville, Ohio. Filed July 31, 1920. Serial No. 400,436. 2 Claims. (Cl. 180—82.)



1. In a device of the type described, the combination with the clutch pedal of a tractor, of a lever operatively secured at one end to said clutch pedal, fulcruming means for said lever, attachable to the tractor, whereby, when the latter starts to turn over backwards, the free end of said lever may engage the ground to pull down upon said clutch pedal to release the clutch, a lug on said fulcruming means, an arm pivotally secured to the free end of said lever, and teeth on the free end of said arm adapted to engage said lug, when the free end of said lever is elevated, to hold the clutch pedal in its clutch-releasing position.

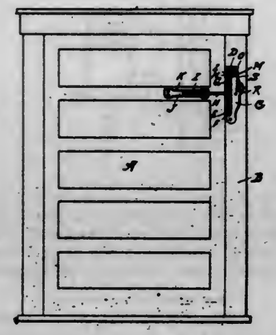
1,457,713. COKE-QUENCHING PROCESS. ARNOLD MOETTELI, Ober-Winterthur, Switzerland. Filed July 19, 1920. Serial No. 397,400. 2 Claims. (Cl. 202—11.)

1. The process of cooling the hot residues from a plurality of distilling vessels with recovery of the heat contained within the residues, characterized in that the hot residues at obviously varying temperatures from a plurality of distilling vessels are cooled in a common receptacle or cooling vessel large enough to receive the whole contents of said distilling vessels, for the purpose of storing up the residues and equalizing the temperature



thereof, whereby a constant and uniform supply of heat may be obtained and the cooled or cooling residues may be removed at will.

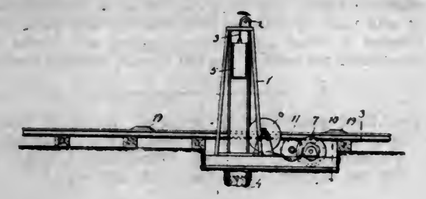
1,457,714. SPRING FOR DOORS. CHERUBINO MONTAGNA, Cecil, Pa. Filed May 17, 1921. Serial No. 470,396. 1 Claim. (Cl. 16—72.)



A new article of manufacture, in the nature of a door spring, comprising a plate which is provided with lugs or shoulders which are adapted to receive and hold the ends of a pin, a ratchet-wheel secured to the upper end of said pin, a pawl pivotally secured to the upper lug or shoulder and engaging with said ratchet-wheel for holding same after the tension has been put on, retaining lugs formed in or on said plate for holding a pin for turning said ratchet-wheel, a bolt on the back edge of the plate for holding the arm or lever out of engagement when not in use, together with an annular plate adapted to be secured to the door for receiving a disc or wheel in the end of the arm or lever, all substantially as shown and for the purposes described.

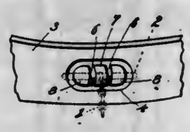
1,457,715. WATER-SUPPLY DEVICE FOR LOCOMOTIVE TENDERS. CHARLES E. RICE, Livermore, Ky. Filed July 5, 1922. Serial No. 573,028. 3 Claims. (Cl. 214—41.)

1. In a water supply device for the tenders of locomotives, a vertically reciprocatory receptacle having normally a lowered position below ground, and means operable by a car in its movement, adapted to raise said receptacle to a suitable height for said supply and including a winding drum, a cable attached to said receptacle and adapted to be wound upon said drum, a reciprocatory



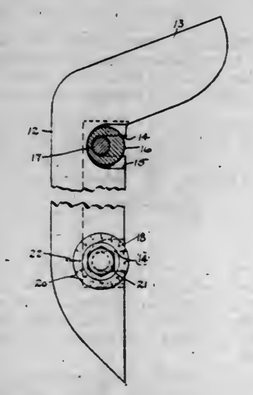
rack having an operating connection with said drum, and a device carried by said car and operable at will to engage said rack.

1,457,716. WATCH-CHAIN HOLDER. GEORGE STIEGLER, Cincinnati, Ohio. Filed Dec. 1, 1922. Serial No. 604,290. 3 Claims. (Cl. 24—3.)



1. In a device of the character described, the combination with a trousers belt or the like, same having a hole formed therein of sufficient size to permit the insertion of the cross bar of a watch chain, of a grommet surrounding and reinforcing said hole, said grommet having a pair of interspaced elevated arms extending across the aperture therein, for the purpose described.

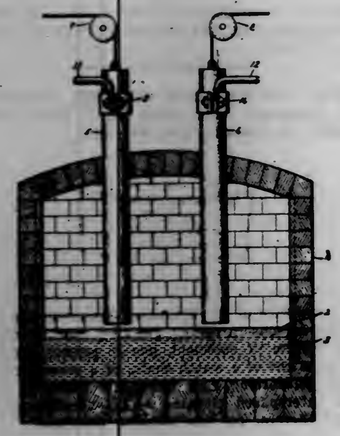
1,457,717. PRINTING PRESS. RALPH S. TYLER, Cleveland Heights, Ohio, assignor to The Chandler and Price Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 22, 1921. Serial No. 439,083. 2 Claims. (Cl. 101—338.)



1. In a platen printing press, the combination with the bed, ink-distributing disk and composition rolls adapted to pass over said bed and disk; of separate steel tracks located one on each side of said bed and adapted to engage the ends of said rolls, each such track having a plurality of transverse slots formed in its rear edge, such slots being counter-bored to present open recesses substantially coextensive therewith; bolts threaded in the bed and adapted to receive such slots for securing the

tracks to the latter; and washers rotatably mounted on said bolts and having eccentric portions disposed to lie in such recesses and engage with the inner ends thereof, whereby said track may be adjusted transversely of said bolts by rotating said washers, said bolts being adapted to press said washers against said tracks and thus clamp the same to the bed in such adjusted position.

1,457,718. ELECTRIC FURNACE. IRVING R. VALENTINE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed May 5, 1921. Serial No. 467,102. 6 Claims. (Cl. 204—64.)



1. An electric furnace comprising a receptacle adapted to contain molten charge, a refractory, heat conducting solid body therein located above a charge in said receptacle and in close thermal relation thereto and means for heating said body by one or more electric arcs.

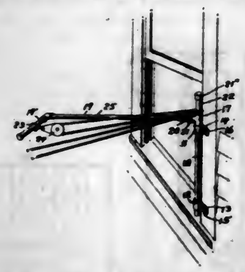
1,457,719. WRENCH. JOHN WAHL, Brooklyn, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 5, 1921. Serial No. 490,101. 11 Claims. (Cl. 81—121.)



1. A wrench or the like comprising a handle and a screw-threaded socket member connected to said handle and adapted for a limited movement with relation thereto, the normal diameter of the socket member being adapted to be expanded and contracted by the movement of the handle.

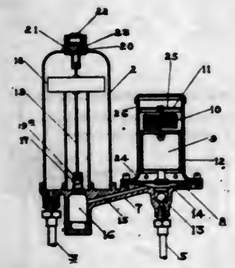
1,457,720. CLOTHESLINE BRACKET. IVAN A. WASILEWSY, Bridgeport, Conn. Filed July 18, 1921. Serial No. 485,727. 1 Claim. (Cl. 68—3.)

In a clothes hanger of the character described, the combination of a tubular arm, spaced sleeves in which said arm is rotatably secured, perforated wings on said sleeves for allowing a securing of the device to a window or door frame by the passing of fastening means through the perforations in said wings, a T sleeve on said arm, a head on the upper end of said arm, a rotatable sleeve on said arm between said head and T sleeve for guiding the clothes line, an angular arm adjustably attached with



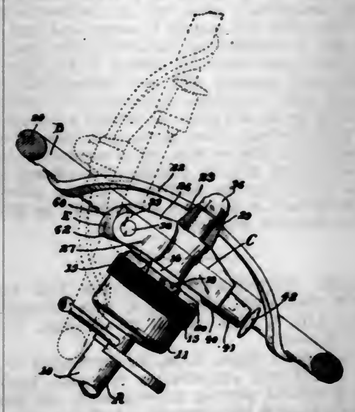
one end to said T sleeve, means for locking said arm in any of its adjusted positions to the T-sleeve, and a pulley on said angular arm for guiding a clothes line.

1,457,721. LIQUID-FEEDING SYSTEM. AUSTIN M. WOLF, Plainfield, N. J. Filed May 5, 1917, Serial No. 166,574. Renewed July 12, 1922. Serial No. 574,541. 19 Claims. (Cl. 158—36.)



1. In a device of the kind described, a source of fuel supply, and destination therefor, a prime mover of a vibratory character, and means mounted on said prime mover for pumping fuel from said supply to said destination by means of the vibration of said prime mover.

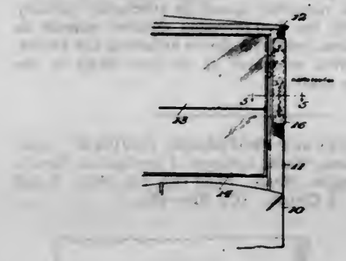
1,457,722. TILTING AND LOCKING DEVICE FOR STEERING WHEELS. ROBERT S. BUSBY, Jacksonville, Fla. Filed June 25, 1921. Serial No. 480,313. Renewed Apr. 20, 1923. 6 Claims. (Cl. 74—33.)



1. In a steering device, the combination with a steering column including a shell, a steering shaft and a steering

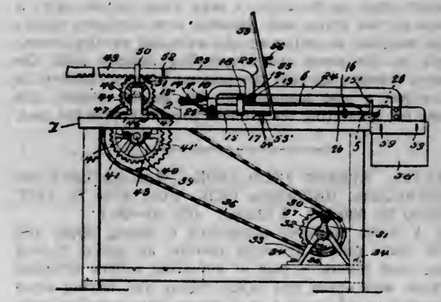
wheel, of an attachment therefor interposed between the wheel and shaft including a pair of hingedly connected normally abutting members, the members being connected respectively with the steering shaft and wheel, whereby the steering wheel is permitted to be swung to a tilted position in relation to the steering column, locking members formed on the shell at spaced points around the same, and a rigid locking member formed on the member carrying the wheel for engaging certain of the locking members carried by the steering shell when the steering wheel is swung to a tilted position irrespective of the position of the steering wheel in relation to the column, whereby steering movement of the wheel will be absolutely precluded when the steering wheel is moved to its tilted position.

1,457,723. DIRECTION INDICATOR. BURNETT BUSH, Kennedy, N. Y., assignor of one-half to A. C. Keppler, South Bend, Ind. Filed Apr. 23, 1921. Serial No. 463,864. 13 Claims. (Cl. 116—54.)



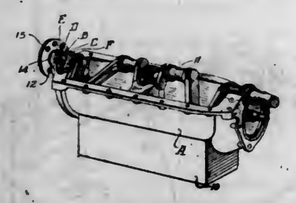
1. A direction indicator for automobiles, comprising in combination a hollow arm having its one end pivoted to a wind shield standard of an automobile, and having its forward and rear side formed with a slot, each end of said slot terminating in an arrow head, a member slidable within said arm, means to cause said slidable member to move within the arm when said arm is swung upon its pivot, and means carried by said slidable member adapted to cooperate with the slots and arrow heads in said arm to give a plurality of signals during the swinging movement of the arm.

1,457,724. MACHINE FOR MAKING CIGAR BUNCHES. ADELARDO CARABALLO, Habana, Cuba. Filed Dec. 31, 1919. Serial No. 348,648. 3 Claims. (Cl. 131—42.)



3. In a cigar bunching machine, a platform having a recess open at its upper side, a flexible band on said platform and arranged to pass over and to form a pouch in said recess, said band being secured at one end, a lever connected to the opposite end of the band to put the same under tension when said lever is operated, a roller over which said band passes, a longitudinally movable frame by which said roller is carried, means to move said frame in either direction, and means to cause said frame to operate said lever, said frame having limited movement in either direction independently of said lever.

1,457,725. REFACING TOOL. EDWARD O. COATS and ROY JNO. BARTHOLOMEW, Leeton, Mo.; said Coats assignor to John L. Stacy and Edwin F. Hausam, both of Sedalia, Mo. Filed Dec. 19, 1921. Serial No. 523,541. 9 Claims. (Cl. 82—4.)



1. A refacing tool for the thrust collars of crank shafts comprising a body arranged to engage and constitute a part bearing for the crank shaft, and a cutting tool carried by the body adjustable longitudinally of the crank shaft for engaging the thrust collar.

1,457,726. BARBER'S COMB. ARTHUR CORNELLIER, Dracut, Mass. Filed Apr. 28, 1922. Serial No. 557,210. 2 Claims. (Cl. 132—45.)



1. The combination in a comb having a straight back and substantially parallel teeth running at substantially right angles therefrom, of a series of cutter guides each projecting from a tooth and having a guiding surface between its base and its tip, said guiding surfaces each having an overhanging top and facing towards and running in a straight line substantially parallel with but at a distance from the bases of the teeth.

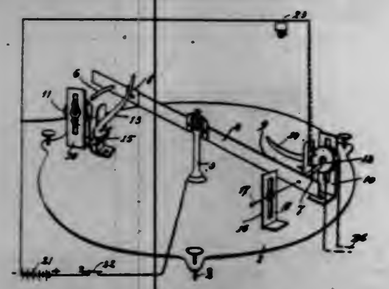
1,457,727. CLOTHES STICK. WILLIAM WESLEY CROCKER, Junction City, Kans. Filed Oct. 16, 1920. Serial No. 417,295. 1 Claim. (Cl. 68—6.)



A clothes stick including a head formed with a socket member, integral elongated lateral projections formed at the free end of the head, said projections being disposed

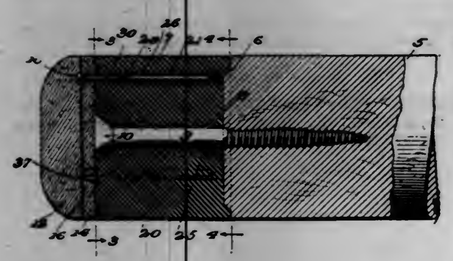
adjacent to each other and having approximately flat side faces, the projections being disposed at right angles to each other and in staggered relation and tapered to the ends thereof.

1,457,728. AUTOMATIC APPARATUS FOR SIGNALING RAILROAD TRAINS IN MOTION. GIUSEPPE DALLA BONA, Como, Italy. Filed Aug. 11, 1921. Serial No. 491,503. 2 Claims. (Cl. 246—249.)



1. Automatic apparatus for signaling running railroad trains consisting of a metal bar rotatably mounted on a pivot and placed in such proximity of the rails as to be subjected to the magnetic attraction from the wheels of the cars, said bar being provided with two contacts and two projections, pawls connected to a local circuit comprising a battery and a bell, said pawls being so placed as to be engaged by the bar when same oscillates due to the passage of a train, a coil in the electric circuit, said coil having an axial recess into which is drawn one of the projections on the bar as soon as the local circuit is closed by the pawls, and a horizontal spindle to damp the oscillations of the bar as soon as the circuit is interrupted.

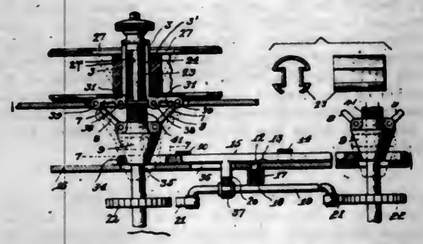
1,457,729. CUE TIP. JOHN LUKAS DORSCHEL, Kitchener, Ontario, Canada. Filed Jan. 25, 1922. Serial No. 531,695. 6 Claims. (Cl. 46—9.)



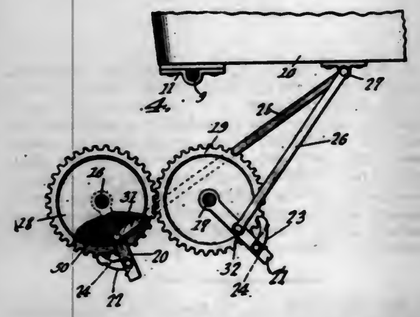
6. In a cue, the combination of a head, spring fastening clips carried thereby and having longitudinal openings, a tip arranged at the forward portion of the head, and fastening pins carried by said tip and securely and detachably received in the longitudinal openings in said spring clips.

1,457,730. TYPEWRITING MACHINE. PHILIPPE DE CLAMECY, Charlestown, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,671. 16 Claims. (Cl. 197—100.)

6. Ribbon feeding mechanism for writing machines, comprising a pair of spool shafts, spools rotatable with the shafts, driven members rotatable with the shafts, driving means, a feed-reversing member shiftable endwise in opposite directions transversely of the shafts for connecting the driven members alternately with the driving means, a pair of ribbon-controlled cam devices reciprocable longitudinally on the shafts upon exhaustion of a ribbon from the respective spools to alternately slidably engage and shift the feed-reversing member endwise in opposite directions, each cam device actuating the reversing member during movement of the cam device in one direction on the shaft.



1,457,731. OCCUPANT-PROPELLED VEHICLE. NOËL DUPUIS, Tacoma, Wash., assignor of one-half to Charles M. King, Tacoma, Wash. Filed Oct. 31, 1921. Serial No. 511,919. 2 Claims. (Cl. 208—36.)

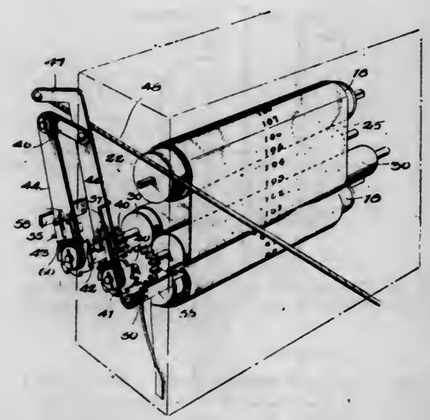


1. In a device of the class described, a frame; an axle journaled in the frame; a ground wheel on the axle; a ratchet wheel on the axle; a gear wheel on the axle; a pinion on the frame and meshing with the gear wheel; arms mounted to swing on the axle and on the frame; pawls on the arms and cooperating directly with the ratchet wheel and with the pinion; pitmans pivoted to the arms; a seat mounted to tilt on the frame; and means for connecting the pitmans pivotally with the seat.

1,457,732. STREET INDICATOR. WILLARD MORTIMER FLEWELLING, Healdsburg, Calif. Filed June 19, 1922. Serial No. 569,465. 4 Claims. (Cl. 40—90.)

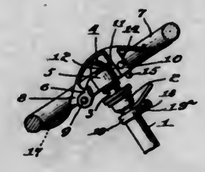
1. A street indicator comprising a casing, upper and lower main rollers arranged therein, an apron trained about said rollers, a pair of actuating rollers arranged between said upper and lower rollers and having axles connected to said casing, said casing being provided with sight openings on opposite sides of said actuating rollers and in the plane of the same, said apron being trained about said actuating rollers and extending between the same for operation thereby, a U-shaped tensioning member having hooked terminal portions engaged with said axles for urging the actuating rollers firmly into contact with the apron, gears mounted on said axles for causing the

actuating rollers to move together, arms rotatable on said axles and carrying pivoted pawls, ratchet wheels



secured on said axles and separately engaged by said pawls, a link connecting the arms for movement together, and stop elements arranged in the path of said arms.

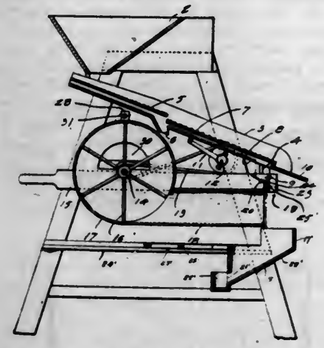
1,457,733. TURNING STEERING WHEEL AND LOCK. CLAYTON E. FREDERICKSON, Chicago, Ill. Filed Feb. 10, 1921, Serial No. 443,901. Renewed Mar. 19, 1923. 2 Claims. (Cl. 74—33.)



1. The combination with the steering post and the steering spindle; an attachment secured on the spindle, a steering wheel hinged to said attachment, a releasable means to secure said wheel and attachment together to permit hinged movement, an ear on the steering post, said wheel having a slotted arm designed to hold said wheel from movement, means to lock said wheel and ear together, said attachment comprising a body having a projection and having an arm provided with one element of a hinged joint, said wheel including a spider having another element of the hinged joint and having a bifurcated member to fit over said projection when the wheel is in the normal position, and a releasable connection between said bifurcated member and said projection to hold the wheel in the normal position.

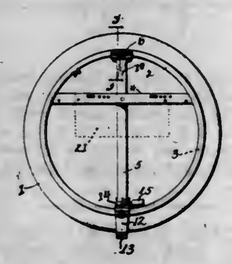
1,457,734. GRAIN GRADER AND CLEANER. ALBERT E. FROMMEL, Groton, S. Dak. Filed Aug. 19, 1921. Serial No. 493,516. 4 Claims. (Cl. 130—17.)

1. In combination, a grain cleaner and grader including a main frame supporting an air blast and a scalping sieve, a curtain forming hopper receiving the grain from said sieve, an auxiliary frame slidably mounted on the main frame to permit adjustment thereof relative to the curtain forming hopper, and a combined



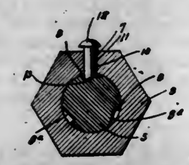
dividing wing and grain collector carried by the auxiliary frame and adapted to catch the graded and cleaned grain after passing the air blast.

1,457,735. VALVE-PROTECTING TIRE CARRIER. JOSEPH B. HEISER, Williamsport, Pa. Filed Dec. 16, 1921. Serial No. 522,798. 4 Claims. (Cl. 224—29.)



2. In a valve protecting carrier for a pneumatic tire provided with an inflating valve and a rim; the combination of an arc shaped member adapted to fit inside said rim; a hollow diametrically disposed post adapted to receive and protect said valve associated with said arc shaped member; means to secure said post to said arc shaped member; and means to securely hold said tire and rim to said post and arc shaped member, substantially as described.

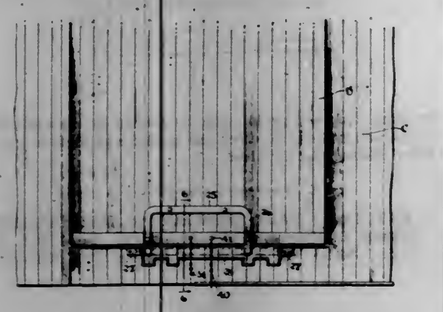
1,457,736. LOCK NUT. OSCAR C. JOHNSON, Pittsburgh, Pa. Substitute for application Serial No. 120,473, filed Sept. 16, 1916. This application filed Sept. 18, 1922. Serial No. 589,011. 1 Claim. (Cl. 151—5.)



In a nut lock, a bolt provided through its threaded portion with a longitudinally extending groove shaped to provide a substantially radially disposed shoulder and an inclined surface extending from the base of said shoulder, a nut threaded on the bolt and provided with a radial bore, and a locking pin inserted through said bore

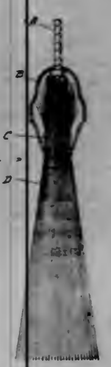
and fitting tightly therein so as to be frictionally secured in the nut, the inner end of said pin being inclined and directed similarly to the inclined surface of said groove whereby the pin when in its innermost position will engage said radial shoulder so as to positively lock the nut against reverse rotation, the pin being moved into inoperative position by turning the nut in such direction as to thread it upon the bolt and frictionally maintained in this position to permit subsequent reverse rotation of said nut.

1,457,737. CAR-DOOR FASTENER. WALTER KANE, Sarnia, Ontario, Canada. Filed July 25, 1922. Serial No. 577,484. 4 Claims. (Cl. 293—213.)



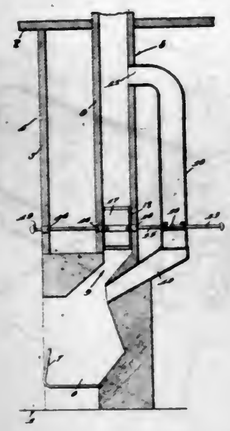
2. In a lock for car doors, a locking frame adapted to be secured upon the car door and having locking arms projecting beyond the same, spaced angle brackets secured to the car, a locking bar pivotally mounted upon the angle brackets and having a plurality of offsets therein defining keepers cooperable with the locking arms of the frame.

1,457,738. TASSEL. GEORGE H. KELLEY, Lowell, Mass. Filed Feb. 13, 1922. Serial No. 536,356. 1 Claim. (Cl. 156—40.)



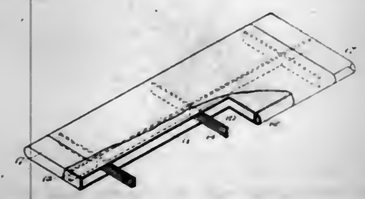
A tassel having a plume comprising a mass of fibers, a retaining ring engaging said fibers adjacent to one end and securing them together, and a hollow one-piece head enclosing said end and said ring and having an opening through which said fibers extend, said opening being smaller than said ring to prevent the withdrawal of said ring therethrough, said head having an aperture through its top portion for the passage of a cord.

1,457,739. CHIMNEY. CAMERON A. KIDD, Ansted, W. Va. Filed Mar. 20, 1923. Serial No. 626,407. 3 Claims. (Cl. 126—125.)



1. In a device of the class described, separate rooms, a heater so located as to heat one room, a chimney through which the products of combustion pass from the heater, a flue located in the other room and communicating at its ends with the heater and with the chimney, dampers controlling the flue and the chimney, and means for moving one damper to a closed position when the other damper moves to an open position.

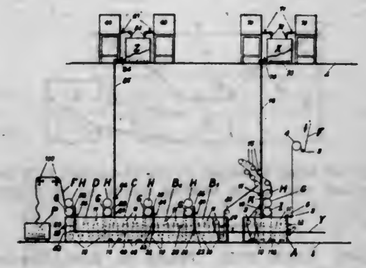
1,457,740. FABRIC BOARD. SEMON S. LEWIS, New York, N. Y. Filed Oct. 11, 1921. Serial No. 506,964. 2 Claims. (Cl. 206—50.)



2. A fabric board consisting of an elongated shallow tray of cardboard like material, a second similar tray fitted within the sides and substantially of the same depth as the first tray, the bottoms of said trays being oppositely disposed to form the main side portions of the board, and interlocking spaced strips within the board between the bottoms of the inner and outer trays to hold said bottoms against collapse, said strips extending from side to side and end to end of the trays in parallel relation to the end and side walls thereof respectively, the ends extending from side to side engaging the side walls of the inner tray and supporting the same against collapse under pressure from cloth wound on the board.

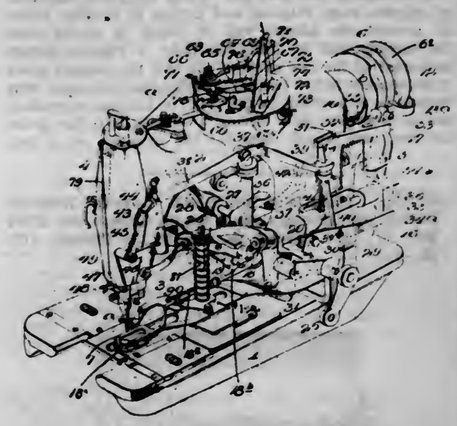
1,457,741. PROCESS AND MACHINE FOR CONTINUOUS DYEING. HARRY METCALFE, Somersworth, N. H. Filed Jan. 3, 1922. Serial No. 526,731. 10 Claims. (Cl. 8—5.)

1. The process of uniformly dyeing a strip of cotton cloth which consists of passing it from one end continuously through one main body of dye, then sprinkling on the back thereof dye from another body of dye, then



squeezing the cloth so that the dye will be driven through the cloth uniformly, then treating it with fixing material and washing it.

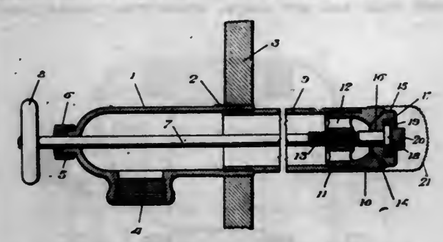
1,457,742. BUTTONHOLE MACHINE. HENRY C. MILLER, Waterford, N. Y. Filed Sept. 15, 1917. Serial No. 191,573. 33 Claims. (Cl. 112—73.)



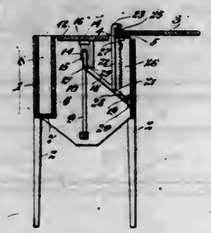
1. A sewing machine having, in combination, stitch-forming mechanism including a reciprocating needle, a work-clamp, means for relatively moving the stitch-forming mechanism and work-clamp to sew a group of stitches, a stop-motion device for arresting the action of the stitch-forming mechanism with the needle out of the work after the stitches have been formed work-clamp opening means, a locking element for preventing the opening of the work-clamp during the stitching, and means connected with said stop-motion device for shifting said locking element to ineffective position after the machine has come to rest.

1,457,743. VALVE FOR TANKS, ETC. THOMAS C. MORRIS, Harrisville, W. Va. Filed Mar. 18, 1920. Serial No. 367,020. 2 Claims. (Cl. 137—21.)

1. A valve comprising an elongated casing having two tubular sections, one end of one section being secured within the adjacent end of the other section, the secondnamed section having means on the exterior adjacent to said end for securing it in the wall of a tank with the firstnamed section within said tank, the secondnamed section having an outlet, the firstnamed section having a valve seat at its opposite end, a valve rod extending through the casing and out through the secondnamed section thereof, and a valve member carried by said rod beyond the end of the casing having the valve seat, to bear against said seat.



1,457,744. CONTAINING CABINET. EMIL C. NEWMAN, Cincinnati, Ohio, and EDWARD A. NEWMAN, Chicago, Ill. Filed July 25, 1922. Serial No. 577,468. 3 Claims. (Cl. 45—27.)

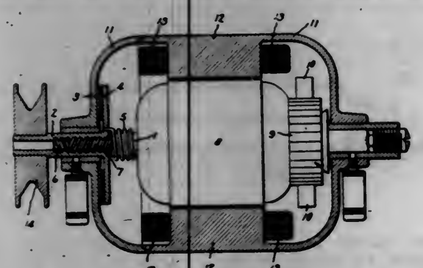


1. A telephone cabinet including a tubular enclosure having vertically arranged front, rear and side walls, a partition extending across the interior of said enclosure and spaced from one of said side walls, a bottom connected to said partition and to the last mentioned side wall and cooperating with said partition to form a pocket within the enclosure adapted to receive a telephone directory, a vertically disposed track arranged within the enclosure and connected to the rear wall, a shoe slidably mounted on said track, a platform carried by said shoe and adapted to support a desk telephone, a link pivotally connected to said shoe, a lever having one of its ends pivotally connected to said link and its other end pivotally connected to the other side wall, a second link having its lower end pivotally connected to the intermediate portion of said lever, a stationary top covering a portion of the upper end of said enclosure and connected to the last mentioned side wall, a spring having one of its ends connected to said lever and its other end connected to said stationary top, a movable top hinged to the stationary top and adapted to cover the upper end of said pocket and the upper end of the portion of said enclosure in which said platform moves, said second link having its upper end pivotally connected to the movable top, and a slot arranged in the rear wall and adapted to permit telephone wires to be connected to a telephone carried by the platform and to move with said telephone.

1,457,745. FRICTION-GOVERNING DEVICE. MARVIN L. NORRIS, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Apr. 18, 1918. Serial No. 229,319. 7 Claims. (Cl. 192—81.)

1. In combination, a variable speed electric motor, a shaft driven thereby, a torque transmitting member in

operative relation to said shaft, a friction brake comprising friction members in operative relation to said torque transmitting member, resilient means connecting said shaft and said torque transmitting member, and



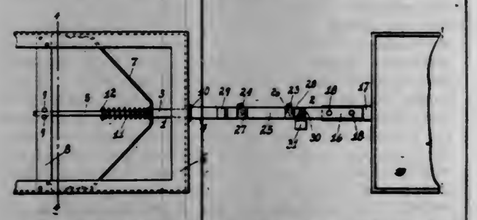
means responsive to the torque on the torque transmitting member for varying the pressure between said friction members and thereby maintain the speed of said shaft substantially constant.

1,457,746. RAIL JOINT. ARTHUR POWELL and C B NEAL, McAlester, Okla. Filed Apr. 13, 1922. Serial No. 552,123. 3 Claims. (Cl. 238—205.)



1. A rail joint comprising a chair adapted to slidably receive rails in an endwise direction, inclined seats at intersecting angles on said chair, and wedging means movable along said seats and constituting a support for the rails so that during their movement away from each other said wedging means will wedge against said rails and chair to firmly lock the rails against separation.

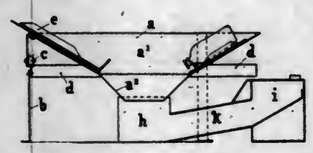
1,457,747. PIN GUARD FOR TRAILER HITCHES. GEORGE H. PRESCOTT, Oakland, Calif. Filed Nov. 30, 1921. Serial No. 518,830. 3 Claims. (Cl. 280—33.2.)



1. In combination with a trailer hitch, pins on said hitch a pin guard formed with a flat body and mounted on said hitch to prevent the coupling pins thereof from coming out of place.

1,457,748. BOTTLE-STOPPER-VARNISHING DEVICE. PAUL WILHELM RAMMER, Hamburg, Germany. Filed June 17, 1920. Serial No. 389,787. 3 Claims. (Cl. 91—60.)

1. Apparatus for lacquering bottle closures, comprising a supporting member, an immersion vessel in the center of the supporting member and open in the upper side, a dripping frame mounted for rotation on the supporting member and having a centrally arranged funnel,



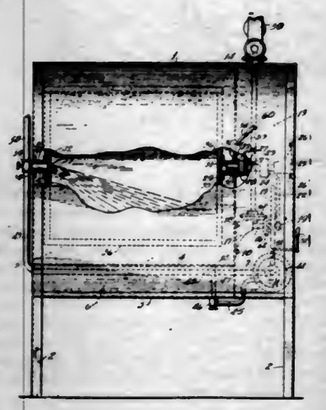
said funnel being arranged to discharge into said immersion vessel, and bottle holding means on said dripping frame.

1,457,749. LOCK NUT. JULIUS H. RAST, Charleston, S. C. Filed Nov. 17, 1921. Serial No. 515,833. 4 Claims. (Cl. 151—21.)



1. A unitary two part nut having the parts separable by relative axial rotation and having in internal annular groove, the lateral wall of which is spaced from the threads and is frangible under a relative rotary movement of the two parts of the nut, the relative pitch of the threads in the two parts remaining unchanged with respect to each other in the relative turning movement, one of said two parts having a substantially flat outer end face and lateral faces for the reception of a tool.

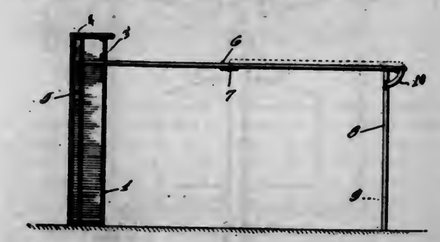
1,457,750. WASHING MACHINE. FRANK KNOERLE RENNER and ERNEST CONRAD PFAFF, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 454,118. 2 Claims. (Cl. 68—21.)



1. In a washing machine of the character described, a casing having parallel end walls, an article holding receptacle disposed in said casing and having its end walls substantially parallel to the end walls of said casing, a bearing sleeve on one end wall of said receptacle, the bore of said bearing sleeve being substantially aligned with an opening provided through said end wall of said receptacle, a tubular journal carried by the wall of said casing adjacent the bearing sleeve and disposed partially within the latter, a conduit extending through the bore

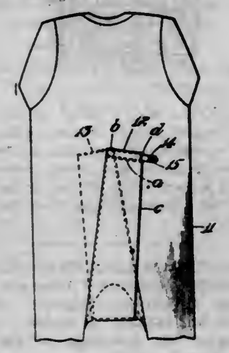
of said journal substantially flush with the inner wall of said receptacle for introducing a liquid into the receptacle, and bearing means carried by the opposite end wall of said receptacle and the adjacent wall of said casing for rotatably supporting that end of said receptacle in said casing.

1,457,751. DISAPPEARING TABLE. ELMER O. ROBERTS, Olympia, Wash., Filed Apr. 26, 1922. Serial No. 556,624. 1 Claim. (Cl. 65—51.)



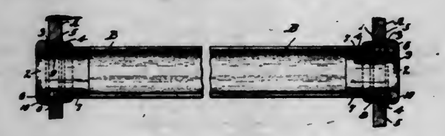
In combination with a receiving compartment having the top and the upper portion of the front wall thereof open, a sectional door hingedly connected to said compartment and adapted to close the open top thereof and the opening formed at the upper portion of the front wall, a table comprising a sectional top, one section of said table top having one end thereof slidably and pivotally connected to the side walls of said compartment, a second table section hinged to the free edge of the first table section and adapted to fold thereupon, the ends of the two sections lying above the hinge and in abutting relation when the table is in position for use, the first table section having its inner end portion resting on the top of the front wall of the casing when in use, legs hingedly connected to the free edge of the second table section, said legs adapted to extend in a vertical direction below the second section of the table when the latter is in use and adapted to be folded upon said second section when not in use, said table sections and legs being of the same length and adapted to be folded within said compartment, and said sectional door adapted to close the upper end of said compartment, when said table is in use, or when the latter is folded within the compartment.

1,457,752. UNDERGARMENT. WILLIAM B. ROOD, Ware, Mass., assignor to Otis Company, Ware, Mass., a Corporation of Massachusetts. Filed May 11, 1921. Serial No. 468,515. 2 Claims. (Cl. 2—144.)



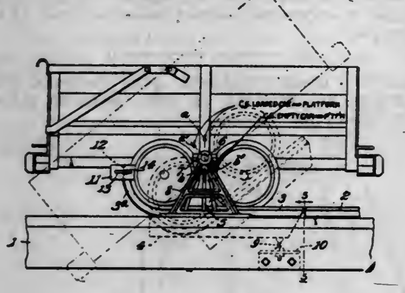
1. In combination, a body portion of a union undergarment, a seat flap having a free upper edge, a transverse strap the ends of which are secured to the body of the garment and on which the upper edge of the seat flap is slidable, said strap being located with the end which is at the side of the garment slightly lower than the end which is adjacent the median line of the garment.

1,457,753. BOILER-FLUE-SETTING DEVICE. FREDRICK SCHMITT, Oakland, Calif. Filed Oct. 21, 1920. Serial No. 418,846. 5 Claims. (Cl. 285—5.)



5. In combination, a flue sheet having threaded openings therein, flues, and fastening means for connecting the flues in the openings comprising a bushing exteriorly threaded and having a shoulder at one end and a flue seat at its opposite end, said bushing being provided with an interior contracted bearing surface, and a securing and clamping member formed intermediate its length with a bevelled bearing surface corresponding to the contracted surface of the bushing, said securing member being exteriorly threaded at one end to extend into the flue and headed at its other end to coact with the bushing when screwed home.

1,457,754. CAR-DUMPING PLATFORM. CLEMENT C. SMITH, Wheeling, W. Va. Filed June 8, 1921. Serial No. 475,888. 4 Claims. (Cl. 214—55.)

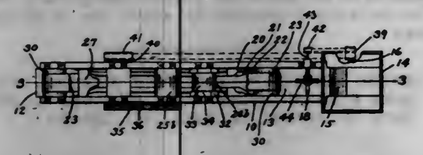


1. The combination with a tipple structure, of a car-dumping mechanism comprising a dumping platform, a pair of supporting members mounted on said structure at opposite sides of said platform, hangers journaled on and depending from said members, said platform being carried by said hangers, rail sections carried by said platform, and wheel chocks located adjacent to the front ends of said sections and means for adjusting the positions of said chocks.

1,457,755. CIDER MILL. LUTHER EDWIN SMITH, Shelburne Falls, Mass., assignor of one-third to Clifton E. Davenport and one-third to John C. Hoffman, both of New Britain, Conn. Filed Jan. 11, 1922. Serial No. 528,380. 1 Claim. (Cl. 100—37.)

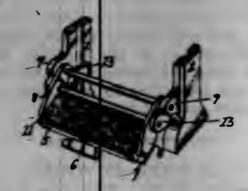
In a cider mill having an elongated trough and endless belt structures and a set of rolls associated with said trough, said belt structures comprising the combination of a wide lower belt and an upper belt that covers the

middle and major portion of said lower belt in the active cooperating position, means on the receiving side of said



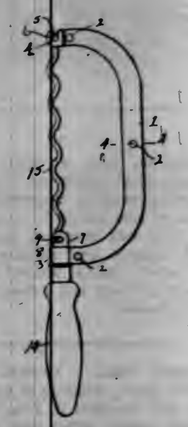
rolls for turning the edges of said lower belt over the edges of said upper belt and means on the delivery side of said rolls for opening out said turned edges.

1,457,756. INK-PAD MECHANISM FOR NUMBERING MACHINES. CHARLES SPIELMAN, Richmond Hill, N. Y., assignor to Wm. A. Force & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 16, 1922. Serial No. 588,627. 2 Claims. (Cl. 101—83.)



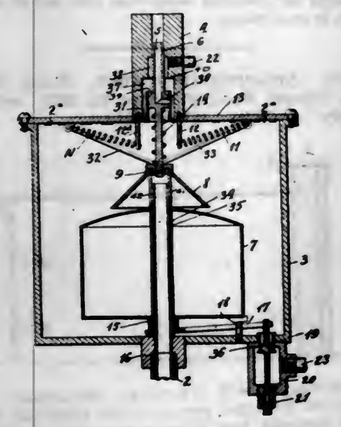
1. Ink pad mechanism for hand stamps comprising an ink pad holder, resilient means secured to the ink pad holder, side bars on which the ink pad holder is pivotally mounted, the ends of the bars adjacent the pivots being shaped to engage the resilient means in either of two positions.

1,457,757. COMB CLEANER. JOHN STETTNER, Philadelphia, Pa. Filed May 18, 1922. Serial No. 561,969. 6 Claims. (Cl. 132—29.)



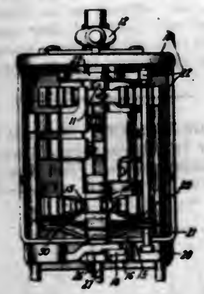
1. As a new article of manufacture a comb cleaner comprising a bow-shaped holder, yokes carried by each end of said holder and a series of spaced blades the ends of which are secured in said yokes.

1,457,758. LIQUID-FEED SYSTEM. CHARLES LAWRENCE STOKES, Los Angeles, Calif. Filed July 25, 1917, Serial No. 182,640. Renewed Oct. 10, 1922. Serial No. 593,659. 8 Claims. (Cl. 158—36.)



1. In a device of the class described, a reservoir having a cover, a pipe to feed liquid thereto, a float, means to alternately open and close said reservoir to suction and atmosphere actuated by the float; and spring means to control the movement of the float, said means embodying two levers engaging opposite sides of the head of the float and springs, each fixed at one end to its corresponding lever and at the other end to anchorage fixed to said cover.

1,457,759. CONTROLLING MECHANISM FOR ELECTRIC VEHICLES AND THE LIKE. PAUL E. TWISS, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 4, 1921. Serial No. 458,321. 8 Claims. (Cl. 192—2.)

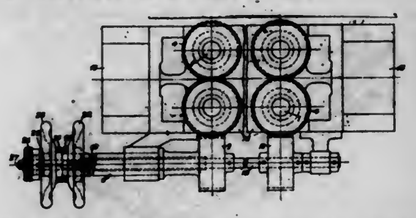


1. The combination with a motor controller of a switch movable with respect thereto for controlling the motor, a brake rod for mechanically operating the switch from and to an operative position, and means whereby the brake rod is rendered inoperative in returning the switch to the operative position unless the controller is in a predetermined position.

1,457,760. BISCUIT OR LIKE EMBOSSING AND CUTTING MACHINE. THOMAS VICARS and EDWARD LYNTON VICARS, Earlestown, England. Filed Jan. 5, 1921. Serial No. 435,264. 3 Claims. (Cl. 107—26.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

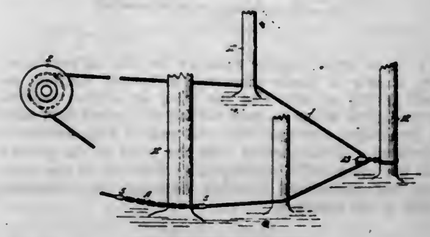
1. In a biscuit or like cutting or embossing machine table adjusting means having screw means at different

parts of it adapted to be actuated together or separately at the different ends, at will, in combination with means for adjusting the table circularly about its longitudinal axis; substantially as set forth.



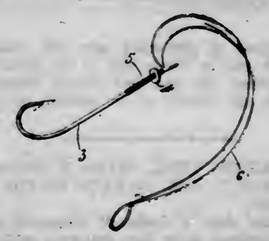
3. A biscuit cutting and embossing machine, including a cutting table composed of a base portion and an upper portion for receiving the biscuits to be cut, means for adjusting the base portion about its longitudinal axis, and means carried by the base portion for adjusting the upper portion, including a pair of intermeshing gears rotatably mounted in the base at each end thereof, having rods extending axially therethrough to engage the upper portion, said rods being in screw-threaded engagement with said gears and being held against rotation, and means adapted for operating each pair of gears independent of the other pair for adjusting the upper portion on its transverse axis or interengaged and operated together for raising or lowering the upper portion.

1,457,761. TIMBER-FELLING APPARATUS. JOHN D. WILSON, Jacksonville, Fla., assignor of one-half to F. H. Garner, Union, S. C. Filed Sept. 19, 1922. Serial No. 589,051. 5 Claims. (Cl. 144—36.)



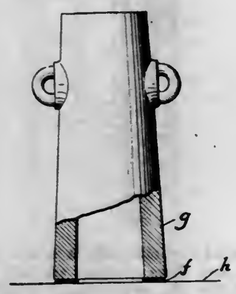
1. Timber felling apparatus comprising, in combination with the reversible cable-winding drums of a power mechanism, a cable having its ends wound on said drums, and a saw carried by said cable, said saw being formed of a plurality of members arranged to allow relative angular adjustment, each member being of cylindrical form and having radially disposed teeth.

1,457,762. FISHHOOK. HENRY CARL AUGUST WIPP, Port Elgin, Ontario, Canada. Filed Apr. 7, 1921. Serial No. 459,454. 1 Claim. (Cl. 43—27.)



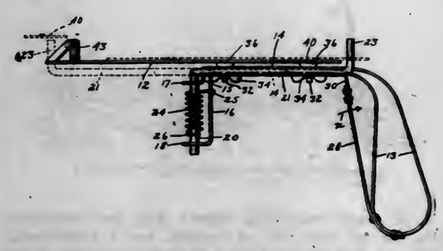
The improved fish hook herein described, comprising a body portion having a barb at one end, an annular protector on the other end of said body, means wound upon said body upon opposite sides of said protector, to hold the latter in place, and a gut line affixed to the said body beyond said protector by said means, said protector serving to prevent the bait from sliding up on the line.

1,457,763. METHOD OF CASTING INGOTS AND SEAL FOR INGOT MOLDS. JAMES R. ADAMS, Philadelphia, Pa. Filed Aug. 14, 1922. Serial No. 581,583. 6 Claims. (Cl. 22—159.)



1. The method of casting ingots comprising the steps of placing on a casting base a compressible packing of non-combustible material with non-communicating openings therein, then placing the mold on the packing and first displacing the walls between adjacent openings relative to each other in accordance with the conformation of the surfaces of the mold and base and compressing the packing between the mold and the casting base to seal the space between the mold and base, and then pouring hot metal into the mold.

1,457,764. BOOMERANG THROWER. CARL A. ANDERSON, Boston, Mass. Filed July 3, 1922. Serial No. 572,563. 8 Claims. (Cl. 124—1.)



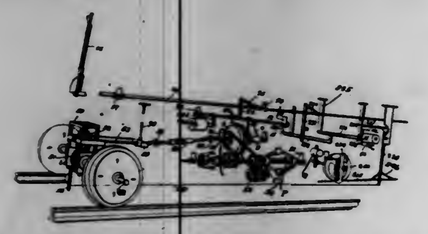
1. A boomerang thrower comprising a tablet; a holder including a base portion attached to the tablet, bearings at one end of the base portion, and a handle at the opposite end of said portion; a rod journaled to turn in said bearings and provided with an arm having an upstanding finger at its outer end; a spring engaged with said holder and rod, adapted to turn the latter in said bearings, a trigger carried by the holder and adapted to engage said arm and releasably confine the latter with its finger in a starting position at one end of the tablet, the finger being movable by the spring to a stopping position at the opposite end of the tablet, and adapted to enter an opening in a boomerang supported by the tablet, so that the finger, in moving from its starting to its stopping position, imparts a whirling edgewise movement to the boomerang, means being provided for permitting the projection of the boomerang from the thrower when the pin approaches its delivering position.

1,457,765. FOUNTAIN PEN. LOUIS BADOIS, Paris, France. Filed July 16, 1921. Serial No. 485,211. 5 Claims. (Cl. 120—42.



1. An improved fountain pen in which the ink from the reservoir only flows through capillary passages in order to reach the nib, comprising a hollow spindle the displacement of which regulates by capillarity and stops the flow of ink, said spindle coacting with a feed regulator characterized by the fact that all its passages are capillary, allowing alternately the outflow of ink and the entrance of air under the desired conditions for a good feed regulation, said feed regulating device being itself provided with means for ensuring the starting of the ink in the nib by the removal of the cap.

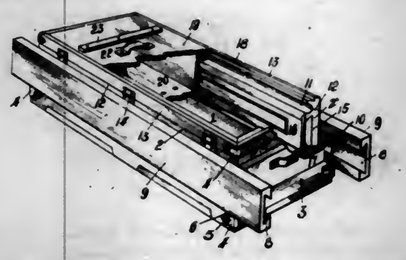
1,457,766. POWER BRAKE FOR RAILWAY CARS. ALFREDO EUTERPINO BORGES, Fortaleza, Ceara, Brazil. Filed May 23, 1922. Serial No. 563,179. 7 Claims. (Cl. 188—181.)



4. In power brakes for railway cars, the combination with the car body, the car wheels, and a brake-mechanism, of means for operating said brake-mechanism, a current generator operated by one of the car wheel axles, an electric circuit, an electromagnet included in said circuit, controlling the said brake-mechanism operating means, stationary contacts in said circuit, a movable contact adapted to co-operate with the said stationary contacts to open and close the said electric circuit, a rotatable axle adapted to be rotated by one of the car wheels, a centrifugal governor mounted on said rotatable axle and a connecting means between the said governor and the said movable contact, the arrangement being such that on the speed of the car wheels exceeding a predetermined rate the said movable contact automatically closes the said electric circuit, thereby causing the operation of the said brake-mechanism.

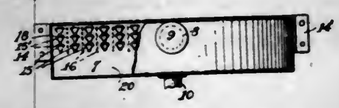
5. The combination as set forth in claim 4, including also a means comprising a compressible spring and an adjustable stop therefor for predetermining the maximum rate of speed of the car wheels.

1,457,767. MOLD FOR PLASTIC FLOWER BOXES OR THE LIKE. WILLIAM A. CAREY, Toledo, Ohio. Filed Nov. 12, 1921. Serial No. 514,470. 4 Claims. (Cl. 25—121.)



1. A mold of the class described having separable side and end members, a side bar disposed at the outer side of each side member longitudinally thereof, the end members and side bars having releasable dove tail connection which permit movements of the end members longitudinally of the side bars and cause the side bars and end members to cooperate to firmly hold the side members against outward movements.

1,457,768. LIQUID-COOLING RADIATOR FOR MOTOR VEHICLES. EDWARD T. CURRAN, Detroit, Mich. Filed Apr. 2, 1920. Serial No. 370,813. 10 Claims. (Cl. 257—29.)



1. In a liquid cooling radiator for the purpose specified, a pair of tanks supported in spaced relation, one tank having an inlet and the other an outlet; conduits of triangular shape in cross section to connect said tanks in circulation arranged with one wall of each conduit to extend in a plane parallel with the front of the radiator and the other walls converging to the rear of the radiator; and corrugated members adjacent the converging walls of the conduits.

1,457,769. PROCESS OF PRODUCING POLO FELT. DAVID L. DAVIS, South Norwalk, Conn., assignor to Davis-Pope Company Incorporated, South Norwalk, Conn., a Corporation of Connecticut. Filed Jan. 14, 1921. Serial No. 437,162. 4 Claims. (Cl. 28—5.)

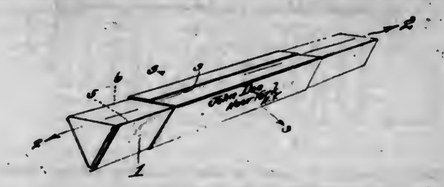


1. The method of producing polo felt consisting in subjecting the felt to the action of an abrasive agent, thereafter raising the nap and finally subjecting the raised nap to the action of an element to twist the same.

1,457,770. MAILING TUBE. RYLAND T. DODGE, Chester, Va. Filed Sept. 3, 1921. Serial No. 498,246. 1 Claim. (Cl. 229—92.)

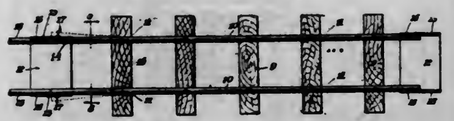
In a mailing tube, a folder of elongated form constructed of relatively thick fibre material, said folder being scored longitudinally, thereby causing three elongated sections, which, when the folder is closed, cause to be

formed a tube triangular in shape, a wrapper secured to the outer face of one of the sections of the folder, said wrapper being extended beyond the folder section remote from the section to which the wrapper is secured, said wrapper adapted to engage around the folder when folded, the extended part of the wrapper having a flap to pass about the exterior of and engage three of the folds of the wrapper, means for securing one edge of the



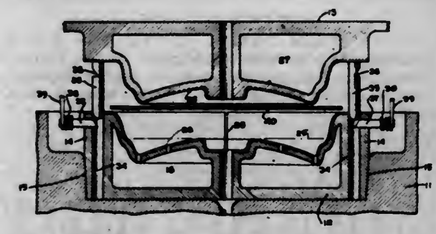
flap to the wrapper, thereby holding the folder in a folded condition, triangular in cross section, said wrapper being extended beyond the opposite ends of the folder and provided with scored lines arranged in triangular formation, whereby when the folder is folded, and the wrapper extended about the same, the ends of the wrapper may be folded over and partially inserted in the mailing tube to conform to the triangle shape thereof.

1,457,771. TOY RAILWAY. ALAN R. FERGUSSON, Buffalo, N. Y. Filed July 22, 1922. Serial No. 576,656. 35 Claims. (Cl. 238—10.)



1. A toy railway comprising supporting means, rails mounted thereon and means for joining the ends of certain rails by placing a rail under tension.

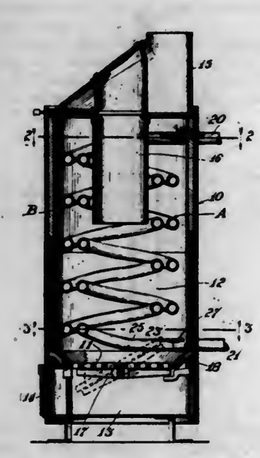
1,457,772. FORMING AND TEMPERING DISK WHEELS. GEORGE H. FORSYTHE, Harvey, Ill. Filed Jan. 12, 1920. Serial No. 350,884. 11 Claims. (Cl. 266—6.)



1. The method of shaping sheet metal bodies which consists in forming the sheet in a die and concurrently with the final stage of forming applying a tempering fluid thereto.

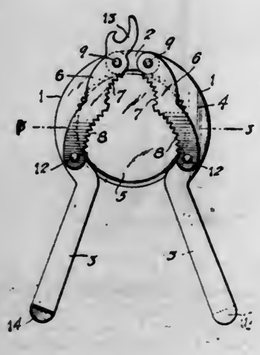
1,457,773. WATER HEATER. JOSEPH FRUMVELLER, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed July 1, 1920. Serial No. 393,301. 1 Claim. (Cl. 122—249.)

A water heater comprising a fire box to contain a solid fuel, a grate at the bottom of the fire box arranged to tilt upwardly into the fire box at the back of the heater and a pair of water coils in the fire box in the form of right and left helixes with their axes off set laterally with respect to each other and their turns in alternate



arrangement one above the other, said coils having lower terminals extending through the wall of the heater at the back thereof and lower turns arranged close to the grate so that the back of the grate in tilting may pass between them.

1,457,774. CAN-OPENING WRENCH. THOMAS HARDING and BERNARD BIEHL, Sr., Newark, N. J., assignors to J. L. Sommer Manufacturing Co., a Corporation of New Jersey. Filed Apr. 5, 1922. Serial No. 549,790. 7 Claims. (Cl. 81—3.1.)



1. In a wrench, the combination of gripping jaws pivotally connected at two of their adjacent ends and having handles at their other ends, said jaws comprising cooperating main portions oppositely bowed apart and chordal portions on said main portions offset from the plane thereof, all said portions having their oppositely adjacent edges adapted to grippingly engage an article.

1,457,775. SEPARATING MECHANISM FOR SHEET MATERIAL. CARL HENDERSON, Chicago, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 1, 1922. Serial No. 533,183. 10 Claims. (Cl. 294—64.)



1. In separating mechanism for sheet material, the combination of means for causing sheet material to be withdrawn from a pile, and means for separating a second sheet from the first sheet with a hammer-like blow if a second sheet adheres to the first sheet.

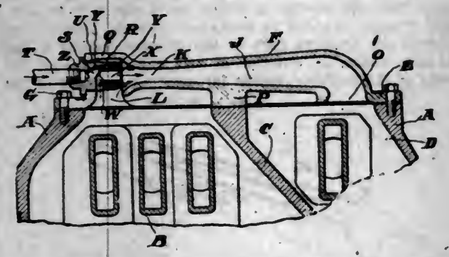
1,457,776. SHEET-SEPARATING MECHANISM. CARL HENDERSON, Chicago, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 1, 1922. Serial No. 533,185. 7 Claims. (Cl. 294—64.)



1. In sheet separating mechanism, the combination of means for causing sheet material to be withdrawn from a pile, and vibratory means for separating a second sheet from the first sheet if a second sheet adheres to the first sheet.

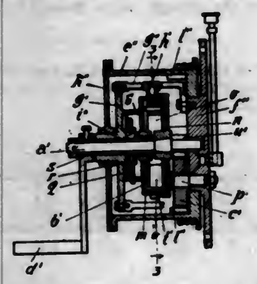
1,457,777. JET AUGMENTER OR EJECTOR. JOHN F. KIRGAN, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 20, 1922. Serial No. 576,302. 10 Claims. (Cl. 230—13.)

1. A unitary augmenter or ejector comprising a plate adapted to act as a closure for an opening in the casing of a condenser or similar vessel, and a diffuser body for the ejector integral with said plate, said diffuser body



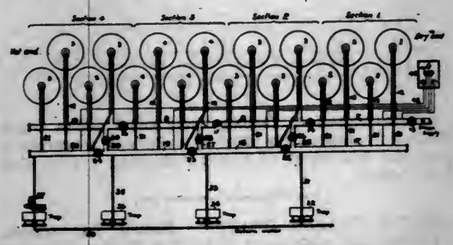
having openings at opposite ends extending through said plate and terminating in the same plane.

1,457,778. SURETY WINDLASS FOR ATTACHMENT TO WALLS. ANTON LANG, Munich, Bavaria, Germany. Filed Aug. 9, 1920. Serial No. 402,491. 6 Claims. (Cl. 254—186.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



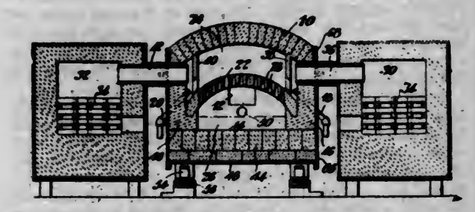
1. In a windlass of the character described, a wall bracket having an annular bearing surface, a reel associated with said bearing surface, operating means carried on the face of said bearing surface and connected to said reel for imparting rotary movement to the latter, a cover member associated with the reel and adapted to cover the said operating means, said operating means being provided with a projecting member adapted to project through an opening in the cover to receive a handle.

1,457,779. STEAM-DRYING SYSTEM FOR PAPER-MAKING AND OTHER MACHINES. HARRY LIEBECK, Swarthmore, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed May 15, 1922. Serial No. 560,938. 4 Claims. (Cl. 34—48.)



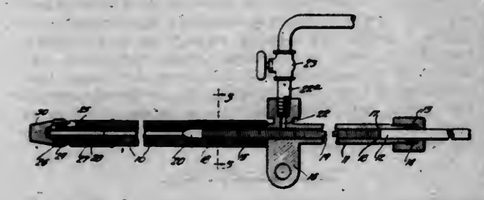
1. In drying apparatus for paper making and other machines, the combination of a plurality of drying cylinders arranged in a plurality of groups constituting separate sections, with a continuous steam supply main having communication with the drying cylinders of the several sections for supplying steam thereto, a continuous return main also in communication with the drying cylinders of the several sections for receiving the water of condensation and uncondensed steam therefrom, by-pass pipes connecting the steam supply main and the return main at intervals along their lengths, said by-pass pipes provided with valves for respectively opening or closing communication through them, valves in the supply main at intervals along its length for dividing it into sections corresponding to the sections of the drying cylinders, valves in the return main at intervals along its length for dividing it into sections corresponding to the sections of the drying cylinders, said valves in the supply and return mains arranged in pairs and each pair of valves controlling said mains adjacent to but respectively on opposite sides of one of the by-passes, whereby the steam from one section of the return main corresponding to one section of the drying cylinders may pass by a by-pass pipe into the section of the supply main corresponding to the next section of drying cylinders and so on, and means for removing the water of condensation from the return main.

1,457,780. GAS-FIRED MELTING FURNACE. HENRY O. LOEBELL, New York, N. Y., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1920. Serial No. 375,251. 6 Claims. (Cl. 263—43.)



1. The combination of a furnace, an arch dividing said furnace into a combustion chamber and a melting chamber, regenerators on opposite sides of said furnace, aligned tubular conduits between said regenerators and said combustion chambers, means for tilting said furnace about the axis of said connections, and fuel supply means for said combustion chamber.

1,457,781. NONEXPANSIVE HOSE AND METHOD OF MAKING SAME. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 15, 1922. Serial No. 601,019. 17 Claims. (Cl. 137—90.)

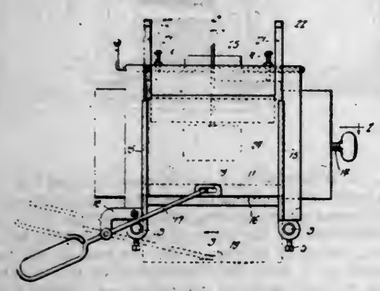


1. In a hose for fluid operated braking systems, a flexible hose of fabric or similar construction, and a flexible relatively incompressible tube positioned within the bore of said hose and forcibly engaging the inner surface thereof so as to render the hose relatively non-expansive at pressures ordinarily employed in braking systems.

4. The method of rendering a hose substantially non-expansive at pressures ordinarily employed in braking systems, which consists in subjecting the hose to a high internal pressure, and snugly inserting a flexible relatively incompressible tube within the hose while subjected to the internal pressure.

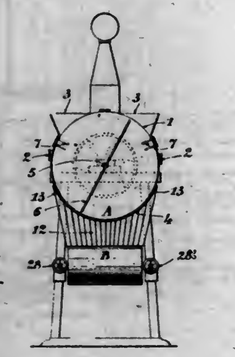
9. In a tool of the class described, a cylinder, a plunger slidable within said cylinder, a stuffing box at one end of said cylinder through which said plunger extends and a nipple at the other end of said cylinder adapted to be received within the bore of a flexible hose.

1,457,782. PICTURE-PROJECTOR ATTACHMENT. FRANK J. MCGETTIGAN, Portland, Oreg. Filed Mar. 25, 1921. Serial No. 455,624. 4 Claims. (Cl. 88—24.)



2. The combination with a picture projector, of a screen having a curtain adapted to be raised for exposing the screen, and means adjacent the projector and movable in the path of the projected rays so as to gradually expose the picture on the screen as the latter is gradually uncovered by the curtain.

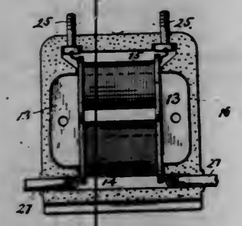
1,457,783. MACHINE FOR SETTING AND MIXING PIG BRISTLES. DANIEL MAGNY, Issoudun, France. Filed May 2, 1922. Serial No. 558,032. 3 Claims. (Cl. 300—18.)



1. A machine for "setting" and mixing pig bristles comprising a stationary horizontal cylindrical drum, the lower part of which is perforated, means for introducing pig bristles into said drum, a stationary comb on the inner surface of said drum, a central horizontal shaft rotatably mounted in said drum, means for rotating said shaft, radial arms on said shaft, a set of conduits ar-

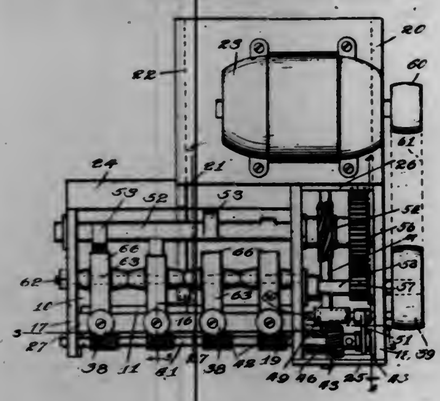
ranged under the perforated lower part of said drum, said conduits being slightly inclined to the vertical, a straight endless apron mounted under said conduits and having its discharge end which extends beyond the set of conduits and means for supporting and actuating said endless apron.

1,457,784. TRANSFORMER. EDWARD P. MAURER, Cleveland, Ohio. Filed Sept. 6, 1919. Serial No. 322,069. 10 Claims. (Cl. 175—361.)



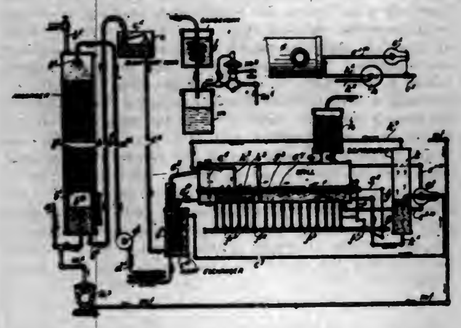
1. In combination, a transformer composed of a core and coils, and a casing composed of two parts each provided along opposite sides with recessed portions shaped to accommodate the ends of the transformer core, and having shoulders between which the ends of the core are clamped in a direction transversely of the core laminæ when the two parts of the casing are secured together, the shoulders of one part of the casing engaging one side of the core, and the shoulders of the other part engaging the opposite side of the core.

1,457,785. VALVE GRINDER. FRED MERADIAN, Vancouver, Wash. Filed Sept. 13, 1922. Serial No. 587,977. 6 Claims. (Cl. 51—29.)



1. In valve grinding mechanism, a valve engaging element, and means for continuously oscillating the element and rotatably advancing the same in a given direction, including a pinion operatively connected with the valve engaging element, a worm engaging said pinion, and means for simultaneously reciprocating the worm and rotating the same in a given direction.

1,457,786. RECOVERY OF GASOLINE FROM NATURAL GAS, ETC. EDMUND S. MERRIAM, Marietta, Ohio. Filed Oct. 16, 1920. Serial No. 417,391. 9 Claims. (Cl. 196—25.)



1. The method of recovering condensable vapors from gas which consists in causing the vapors to be absorbed by a menstruum, permitting the more readily separable vapors to be separated from the menstruum, thereafter heating the menstruum to separate the more readily condensable vapors, causing the vapors first separated to pass through the heated menstruum to facilitate the separation therefrom of the more readily condensible vapors, and withdrawing the vapors separated from the heated menstruum.

6. In an apparatus for separating condensable vapors from a liquid menstruum without substantially changing the character of the menstruum except for the withdrawal of such vapors, the combination of a still, means to supply the menstruum thereto at one end continuously, means for heating the menstruum as it flows through the still, a separator to which the charged menstruum is admitted before it enters the still and in which the less readily condensable vapors are permitted to separate from the menstruum, a connection by which the menstruum is conducted from the separator to the still, means whereby the vapors separated in the separator are caused to pass through the menstruum in the still where the temperature of the menstruum is higher than that in the separator, and means to withdraw from the still all of the vapors released therein from the menstruum.

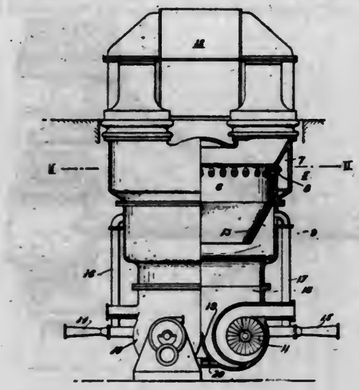
1,457,787. PROCESS OF TREATING AULMINOUS MATERIALS. EDEL MOLDENKE, Watchung, N. J., assignor to Moldenke Process Corporation, Watchung, N. J. Filed Sept. 28, 1920. Serial No. 413,402. 10 Claims. (Cl. 23—13.)

1. In the treatment of materials which when subjected to heat tend to become sticky or pasty, the process which comprises heating the said materials in a plurality of stages, a preliminary heating stage being at a temperature lower than a subsequent stage and being performed upon the material in the form of a layer, thus hardening the material, breaking the hardened material into pieces and subjecting it to a subsequent heating stage at a higher temperature than the preceding heating stage and in bulk.

1,457,788. LARGE JET CONDENSER. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 3, 1920. Serial No. 428,059. 10 Claims. (Cl. 261—118.)

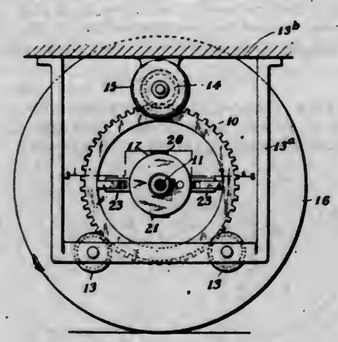
5. In a jet condenser, means providing a single mixing chamber of elongated plan section, and spray nozzles

arranged in the wall thereof, whereby the spray travel of each nozzle for effective condensation is less than



would be the case with a similarly arranged mixing chamber of circular plan section.

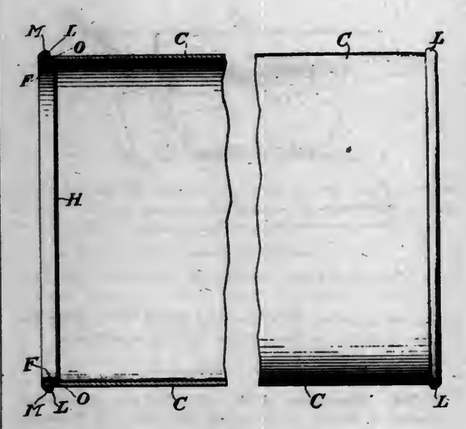
1,457,789. FLEXIBLE POWER TRANSMISSION. HOWARD J. MURRAY, Brooklyn, N. Y., and WALTER S. RUGG, Pittsburgh, Pa. Filed Oct. 3, 1918. Serial No. 256,648. 9 Claims. (Cl. 74—7.)



1. In a power transmission, the combination of a driving and a driven member, one of said members constituting a wheel, and the other member constituting a shaft normally extending transversely of the plane of the wheel adjacent the axis of rotation thereof and having three degrees of rotational freedom relative to the plane of the wheel and a flexible driving connection including telescoping driving members between the wheel and shaft, said connection fixedly coupling the wheel and shaft in all relative driving positions of the same, whereby the wheel and shaft will both have the same angular velocity for all fractions of each rotation while permitting telescopic movement of said driving members during relative displacements of the driving and driven members.

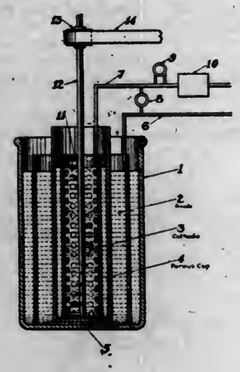
1,457,790. CONTAINER. HOWARD M. NICHOLS, Swarthmore, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 17, 1921. Serial No. 445,593. 3 Claims. (Cl. 229—5.6.)

2. An end closure member for a drum of fibrous material, comprising a substantially circular sheet metal member provided with a channel portion adjacent to its periphery, the peripheral portion of said member being



bent to substantially circular form to provide a rounded surface for clamping the end of the drum against the side of the channel opposite thereto.

1,457,791. PROCESS OF MAKING SUCCINIC ACID. JAMES F. NORRIS and EDMUND O. CUMMINGS, Cambridge, Mass. Filed Oct. 20, 1922. Serial No. 595,754. 18 Claims. (Cl. 204—9.)

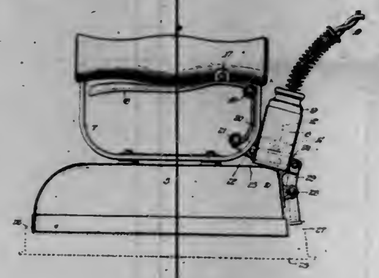


1. In a process of making succinic acid, electrolytically reducing a dispersion of an acid of the formula $C_2H_2(COOH)_2$ in a solution of a mineral acid which will not react in substantial amounts with the electrodes employed for the electrolysis.

1,457,792. ELECTRICALLY-HEATED FLATIRON. ROY BURTON OLDER, Danville, Ill. Filed Apr. 14, 1921. Serial No. 461,276. 10 Claims. (Cl. 219—23.)

1. In an electrically heated flat iron and a stand therefor, in combination, a single switch in the circuit

to the heating element maintained normally in open position, means on said iron for closing said switch and

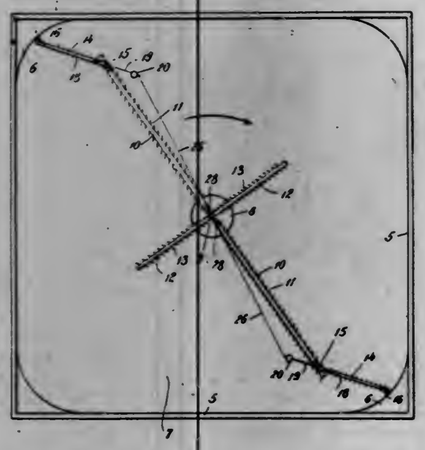


means co-operating with the iron stand for closing said switch to heat the iron under certain conditions.

1,457,793. PROCESS FOR OBTAINING SULPHUR. ROBERT S. PERRY, Cave Spring, Ga., PAUL W. WEBSTER, Pelham Manor, and VERE K. BOYNTON, New York, N. Y., assignors to Perry & Webster Incorporated, a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,662. 17 Claims. (Cl. 23—10.)

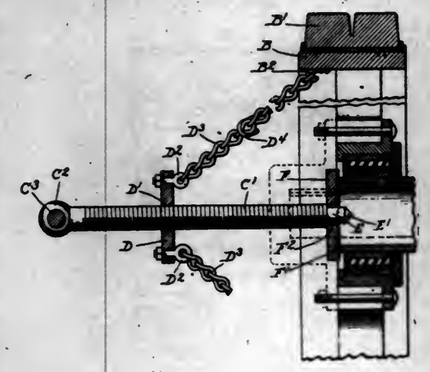
1. In a continuous process of separating sulphur from sulphur containing material, the step which comprises passing a mixture of an extractive liquid, spent ore and molten sulphur into an agitated fluid body thereby removing the extractive liquid and the spent ore from contact with the sulphur.

1,457,794. SETTLING APPARATUS. WILLIAM EUGENE PIPER, New Canaan, Conn., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1923. Serial No. 619,148. 11 Claims. (Cl. 210—55.)



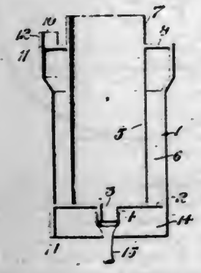
1. In an apparatus of the character described, rotating means for moving solid material over a non-circular surface, said means being pivotally articulated and capable of expanding and contracting to accommodate itself to the area of the surface.

1,457,795. WHEEL REMOVER. GIUSEPPE PIZZUTI, Chicago, Ill. Filed Oct. 27, 1921. Serial No. 510,788. 2 Claims. (Cl. 29—85.)



1. A wheel remover comprising a rotatable screw threaded shaft, and a handle secured thereto, a member adapted to be moved along said shaft by the rotation of said shaft, means, adapted to prevent its rotation with the shaft, for securing it to an automobile wheel, the end of said shaft opposite the handle terminating in a cylindrical section of lesser diameter than the screw threaded portion of the shaft, an apertured bearing plate, in rotatable relation with the shaft, and removably mounted upon said cylindrical section and adapted to abut against the shoulder formed by the intersection of the reduced portion and the screw threaded portion of the shaft.

1,457,796. BLOOD-TRANSFUSION APPARATUS. MARION C. PRUITT, Atlanta, Ga. Filed May 25, 1920. Serial No. 384,026. 3 Claims. (Cl. 128—214.)

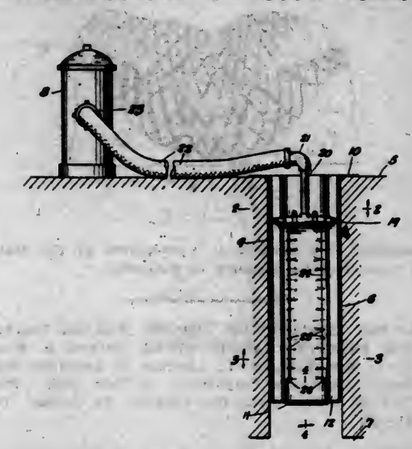


1. A transfusion receptacle, comprising an outer cylindrical shell provided above the lower end thereof with an apertured bottom wall, and having the said lower end externally threaded to receive thereon a threaded cap, said cap forming in conjunction with the bottom wall an intervening compartment, an inner shell rising from said bottom wall in spaced relation to the outer shell and projecting above the upper end of said outer shell, a closure for the projecting end of said outer shell.

1,457,797. APPARATUS FOR DISPOSING OF SNOW. JOHN F. REILLY, New York, N. Y. Filed Feb. 24, 1920. Serial No. 360,793. 9 Claims. (Cl. 126—343.5.)

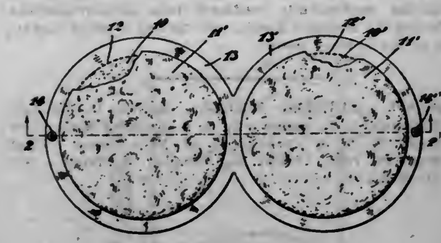
1. An apparatus of the class described for use in connection with the manholes of sewers, comprising a

horizontally arranged piping, a plurality of depending pipes connected therewith and adapted to extend downwardly into a manhole adjacent to the walls thereof, said horizontal piping and depending pipes being adapted



to be detachably mounted in a manhole, means for supplying water to said horizontal piping, and means for discharging a plurality of sprays of water from each of said pipes into the central portion of the manhole.

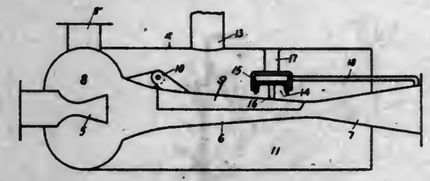
1,457,798. POWDER PUFF. JULIUS SCHMID, Montgomery, N. Y. Filed Oct. 12, 1921. Serial No. 507,824. 2 Claims. (Cl. 132—78.5.)



1. In a powder puff, in combination, a non-porous, soft, pliable carrying member; two powder-carrying members attached to one face of the carrying member so positioned that the edges thereof will not abut upon each other when the device is in open position, the supporting member extending beyond the powder-carrying members, and means for fastening the powder-carrying members in face abutment position when the device is folded.

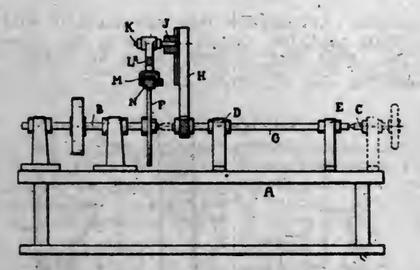
1,457,799. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1920. Serial No. 434,356. 5 Claims. (Cl. 162—1.)

1. An ejector comprising an inlet chamber, means for admitting fluid to be entrained to said chamber, a nozzle discharging a jet of motive fluid into said chamber, a convergent-divergent tubular member communicating with said inlet chamber and disposed to receive said jet of motive fluid and fluids entrained thereby, an overflow port in said tubular member, a valve member closing said port, and means responsive to the pressure of fluids at the outlet of said tubular member for holding the valve



closed during the normal operation of the ejector, whereby said tubular member constitutes a fluid-tight passage for the fluids during normal operation of the ejector.

1,457,800. TESTING MACHINE. MOSES SPINDEL, Innsbruck, Austria. Filed Mar. 25, 1922. Serial No. 546,882. 12 Claims. (Cl. 73—51.)



1. A testing machine for the purpose described comprising, in combination: two co-axial shafts and means for supporting them, a tool supported by one of the said shafts and being adapted to act on the test-piece at right angles with respect to the axis of rotation of the said shafts and to be acted on by the test-piece; a rocking frame supported by the other shaft and being adapted to hold one of said two members; means adapted to make the other of said members rotate around the axis of rocking of said frame; and a dynamometer so arranged as to be adapted to measure by the pressure exerted upon it by the said frame the tangential force transmitted from the rotating piece to the piece held in the frame, as set forth.

1,457,801. COMMUTATOR SEGMENT AND METHOD OF PRODUCING THE SAME. CHARLES A. VAN DUSEN, Toledo, Ohio, assignor to The Toledo Standard Commutator Company, Toledo, Ohio, a Corporation of Ohio. Filed July 2, 1921. Serial No. 482,269. 9 Claims. (Cl. 29—155.5.)



1. The method of forming a commutator segment which comprises peening or striking up tang forming tongues on one side of a blank.

1,457,802. EXPOSURE METER. ERNST WANDERSLEB, Jena, Germany, assignor to The Firm of Carl Zeiss, Jena, Germany. Filed Aug. 29, 1921. Serial No. 496,728. 3 Claims. (Cl. 95—10.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

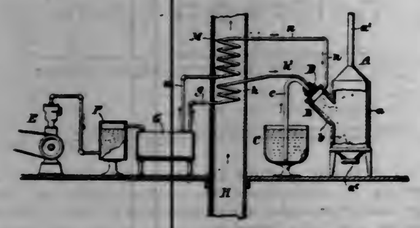
1. In an exposure meter a casing adapted to receive a piece of sensitive paper and having an opening for transmitting light to this paper, which casing contains a

field in the vicinity of this paper, coated with a comparison colour, and a reflector system for observing this paper and the said field, lying without the rays of light



which are to be transmitted to the paper, the said casing having an opening of inspection located in one of the sides of the casing, which does not contain the said light transmitting opening.

1,457,803. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. ALMON J. WHITE, San Antonio, Tex. Filed Sept. 2, 1920. Serial No. 407,671. 4 Claims. (Cl. 127—9.)



1. Apparatus for separating solids from liquids comprising desiccating chamber having an arm inclined downwards from its outer end toward the bottom of the chamber and constituting a concentrating chamber, an atomizer connected with and discharging into the outer end of said arm and with a source of compressed air and a liquid reservoir, and means associated with the desiccating chamber for conveying upwards the separated moisture and downwards the separated solids.

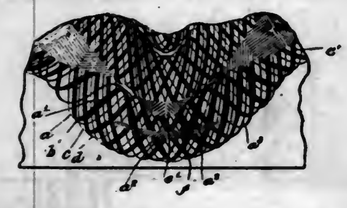
1,457,804. CONTACT BOWL. ALBERT WIGAND, Halle, Germany, assignor to the Firm of Carl Zeiss, Halle, Germany. Filed June 3, 1922. Serial No. 565,781. 1 Claim. (Cl. 88—5.)



Contact bowl consisting of celion and being coated on its front surface with a transparent lacquer.

1,457,805. SAFETY-TINT PAPER. DANIEL E. WOODHULL, New York, N. Y., assignor to American Bank Note Company, a Corporation of New York. Filed July 15, 1921. Serial No. 485,031. 9 Claims. (Cl. 283—8.)

1. Safety tint paper having impressed thereon a line geometrical design of the general character of a machine-made design having the lines of some of the loops relatively wider than the lines of adjacent loops, whereby



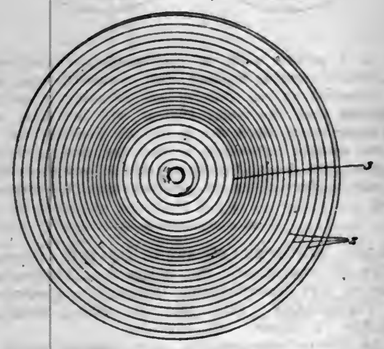
possibility of a mechanical reproduction of the design for counterfeiting purposes is minimized.

1,457,806. METHOD OR ART OF MAKING PLATES FOR PRINTING SAFETY TINTS. DANIEL E. WOODHULL, New York, N. Y., assignor to American Bank Note Company, a Corporation of New York. Filed July 15, 1921. Serial No. 485,032. 19 Claims. (Cl. 41—26.)



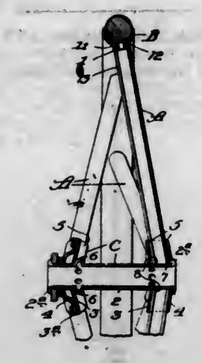
1. The method or art of making plates for printing safety tints consisting in mechanically creating a line geometrical design, photographically enlarging said design, modifying the characteristics of some lines in said design, whereby such lines are readily distinguishable from the mechanically produced lines, photographically reducing the modified design, and making a photo-engraving of the reduced design.

1,457,807. BUFFING WHEEL. HENRY L. ZUCKER, Matawan, N. J., assignor to A. P. Munning & Co., New York, N. Y., a Corporation of New Jersey. Filed Sept. 26, 1921. Serial No. 503,464. 5 Claims. (Cl. 51—193.)



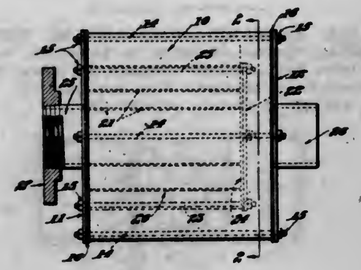
1. A buffing wheel made up of fabric pieces, and means for binding the pieces together more closely at the inner region of the wheel than at the outer region thereof.

1,457,808. MANUFACTURE OF SPOKES. ARTHUR J. ADAMS, Bay City, Mich., assignor to The Fulton Company, Bay City, Mich., a Corporation of Michigan. Filed Feb. 17, 1921. Serial No. 445,617. 4 Claims. (Cl. 29—174.)



1. The method of making a tubular spoke which comprises providing one end of a flat strip of metal with a central concavity and chamfered corners, and then forming the strip into a tube, whereby said end of said spoke is provided with diametrically opposite concavities.

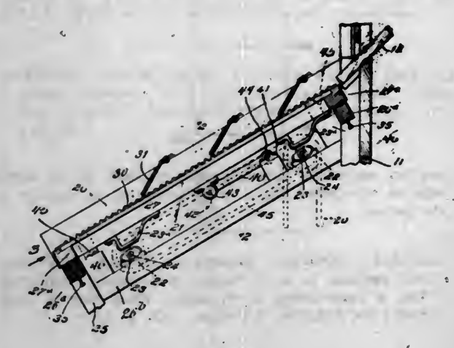
1,457,809. MUFFLER. GEORGE W. ALLEN, Hyde Park, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Sept. 18, 1919. Serial No. 324,313. 4 Claims. (Cl. 137—160.)



4. A muffler comprising an outer casing, end plates for closing the casing, layers of sound absorbing material interposed between each of the end plates and the casing, tie bolts extending throughout the length of the casing for clamping the casing and end plates in assembled relation, and a scroll comprising a series of straigt passages held within the casing and extending partially throughout the length thereof.

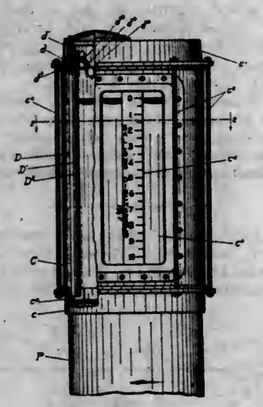
1,457,810. SCREENING APPARATUS. PAUL J. ALWART, Chicago, Ill. Filed Feb. 18, 1921. Serial No. 445,980. 4 Claims. (Cl. 83—56.)

1. In a screening apparatus, the combination of a stationary frame having a horizontal frame member, an inclined screen frame and a screen carried thereby, a cam shaft mounted on said stationary frame, screen agitating cams mounted on said shaft, and a plurality of resilient cushioning members spaced along and



mounted in and projecting upward and out from said horizotnal frame member under one end of said screen frame, and adapted to receive impact from the screen.

1,457,811. DISPLACEMENT ELEMENT FOR LIQUID CONTAINERS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Nov. 10, 1919. Serial No. 337,004. 2 Claims. (Cl. 73—166.)

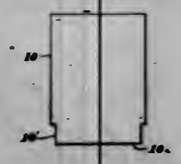


1. In combination with a dispensing measuring vessel having different cross sectional areas and having a standard scale to indicate the quantity of liquid therein; displacement means secured within the vessel and so shaped as to make the cross sectional areas thereof uniform and correct the reading on the scale.

1,457,812. PATCH POCKET. ALFRED C. BARROW, Lynchburg, Va., assignor to A. C. Barrow & Company, Lynchburg, Va., a Corporation of Virginia. Filed May 5, 1922. Serial No. 558,669. 3 Claims. (Cl. 2—134.)

1. The combination with a garment body, of a facing for forming a pocket therewith, stitching securing the sides and lower end of the facing to the said body, the

lower end of the facing being doubled over to form a reinforce for the bottom of the pocket, said doubled over



portion extending upwardly and stitched at its upper edge to the facing above the stitching at the bottom of the pocket.

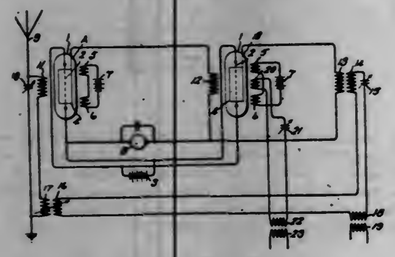
1,457,813. POCKET. ALFRED C. BARROW, Lynchburg, Va., assignor to A. C. Barrow & Company, Lynchburg, Va., a Corporation of Virginia. Filed May 5, 1922. Serial No. 558,670. 3 Claims. (Cl. 2—15.)



2. A pocket comprising two pieces of material overlapped and sewed together at one of their ends, said pieces being turned midway of said overlapped portion and sewed together along their adjacent side and bottom edges and also adjacent the bottom edge whereby a pocket with double bottom is formed.

3. The arrangement as in claim 2, characterized by each of said pieces having a pair of notches, one notch in each side edge, said pieces being turned on the line forming said notches, the sides of said notches being sewed and constituting the bottom corners of the pocket.

1,457,814. AMPLIFIER. HOWARD I. BECKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1921. Serial No. 522,378. 7 Claims. (Cl. 179—171.)



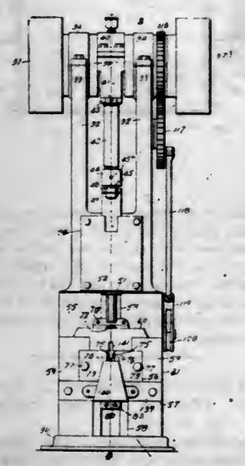
1. The combination in an amplifying system of a device having two electrodes arranged in substantially circular symmetry to each other, means for producing an electron discharge between said electrodes, an input circuit for said device which comprises means for magnetically controlling the discharge between said electrodes, an output circuit in which the current carried by the discharge will flow, a second device similar to the first, means associated with the output circuit of the first device for magnetically controlling the electron discharge in the second device, an output circuit for the second device, and means for impressing upon the input circuit of the first device current variations produced in the output circuit of the second device.

1,457,815. BRIDLE FOR BROOMS AND SIMILAR DEVICES. JOSEPH BERMAN, Baltimore, Md. Filed July 6, 1922. Serial No. 573,064. 8 Claims. (Cl. 15—170.)



1. A broom bridle comprising upper and lower bands, the upper band being adapted to encircle the broom head at the stitching thereof and the lower band being adapted to encircle the broom head below the stitching thereof, side strips connecting said bands, means on said upper band adapted to cooperate with the broom head stitching to hold the bridle in place on the broom head, and means associated with said lower band for clamping said lower band against the broom head.

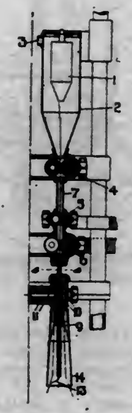
1,457,816. COMBINED PUNCHING AND FORMING PRESS. WILLIAM H. BETTS, St. Louis, Mo., assignor to Betts Sole Protector Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 23, 1920. Serial No. 405,277. 7 Claims. (Cl. 153—2.)



1. A combined punching and forming press comprising a base, a frame secured thereto, a press head reciprocally

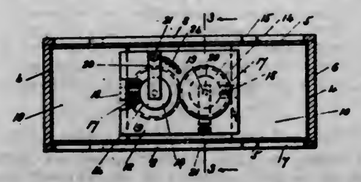
mounted in the frame, a punch head secured to the press head, a punch carried by the punch head, a die secured to the frame and beneath the punch, a pair of forming dogs secured to the frame and located beneath the die, and a mandrel for carrying the article punched past the forming dogs, said dogs adapted to sharpen and give the article its final shape.

1,457,817. TEXTILE SPINNING AND TWISTING PROCESS. WILLIAM BINNS, Bingley, England, assignor of one-half to Joseph Downing Mander, Bingley, York, England. Filed Dec. 21, 1921. Serial No. 523,860. 3 Claims. (Cl. 118—69.)



1. A textile spinning process comprising drawing a fibre sliver by rollers, leading said fibre sliver by means of an air stream down a coaxial tube and projecting it by centrifugal force within a hollow rotating cap.

1,457,818. SIGNAL. CHARLES W. BROWN, Cleveland, Ohio. Filed Feb. 1, 1922. Serial No. 533,272. 2 Claims. (Cl. 177—329.)



1. In a signal, a casing provided with a front having direction indicators arranged one above another, said casing having also horizontal guides at its sides between the indicators, a plate of insulating material slidable on the said guides and provided with lamp holes, electric lamps having their sockets inserted in the said holes, means for grounding each lamp independently of the other, said lamps being arranged to project one above and the other below the said plate, and means for completing an electric circuit through each lamp to illuminate the indicator to which it pertains.

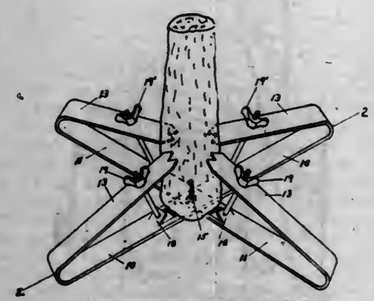
2. In a signal, a metallic casing provided with a front having direction indicators arranged one above another, said casing having also horizontal metallic guides at its sides between the indicators, a plate of insulating material having its ends slidable on the said guides, said plate having lamp holes in its middle portion and radial holes extending horizontally between its lamp holes and its ends, electric lamps having their sockets inserted in the lamp holes, helical contact springs arranged in the radial holes between the lamp sockets and the said guides, and means for completing an electric circuit through each lamp to illuminate the indicator to which it pertains.

1,457,819. SLACK-TAKE-UP FOR VALVE MECHANISM. EDWARD W. CAULFIELD, Taylor, Tex. Filed May 1, 1920. Serial No. 378,109. 11 Claims. (Cl. 123—90.)



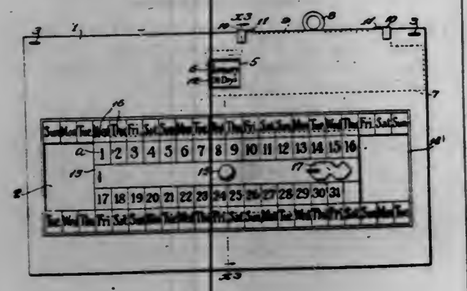
6. In an internal combustion engine, a valve actuating rod comprising portions longitudinally movable with relation to each other, a tapered cup on one of said portions, and a ball clutch interposed between said cup and the other portion of the rod, substantially as described.

1,457,820. TREE-HOLDING STAND. ERNEST E. CLEVELAND, Springfield, Mass. Filed Jan. 10, 1922. Serial No. 528,325. 1 Claim. (Cl. 248—38.)



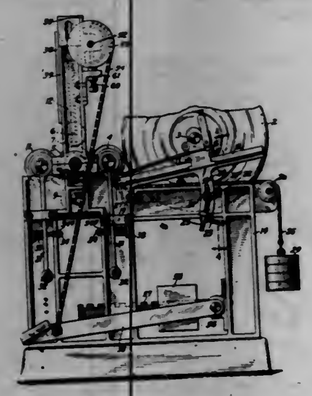
A Christmas tree holder comprising a pair of crossed members each formed from a single length of material and each bent on itself at its opposite ends to produce a pair of resilient arms, said arms extending upwardly and inwardly toward the center of the intersection of the members, said ends being provided with longitudinally extending terminal tree penetrating points, struck up lugs formed on the cross members, and clamping bolts disposed through the lugs and flexible arms for operation to flex the arms into biting engagement with a tree trunk.

1,457,821. CALENDAR. CLARA L. COOK, El Monte, Calif., assignor of one-half to Emmie T. Nolen, El Monte, Calif. Filed May 8, 1922. Serial No. 559,277. 3 Claims. (Cl. 40—109.)



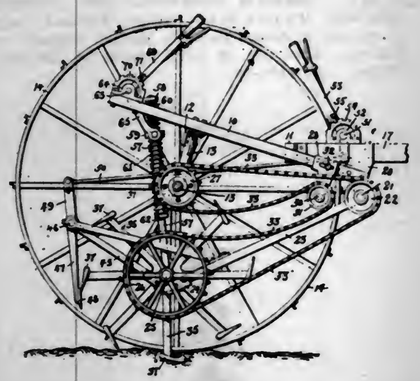
2. A device of the character described having a body provided with an orifice open to one side thereof; indicia above and below said orifice representing the days of the week, the days of the week indicated by the indicia below the orifice being for different days, respectively, than the days indicated by the indicia directly above each day indicated by the lower indicia and disposed above the orifice; and a slide movable in said body and having indicia along its longitudinal edges representing the days of the month and adapted to cooperate with the indicia representing the days of the week for the purpose specified.

1,457,822. MACHINE FOR AND PROCESS OF PRODUCING ROLLS OF PAPER FOR TOWELS, TOILET PAPER, ETC. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y., a Corporation of New York. Original application filed Dec. 16, 1918, Serial No. 266,862. Divided and this application filed July 10, 1920. Serial No. 395,276. 36 Claims. (Cl. 242—65.)



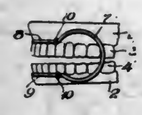
9. In a roll-forming machine, the combination of a drum, means for guiding a web of paper thereto, a shaft upon which said web is adapted to be wound, a roll adapted to press the roll being formed against said first-mentioned drum, a slide upon which said roll is mounted, means for driving said roll comprising a sprocket chain therefor and an adjustable guide parallel to the line of movement of said slide and adapted to hold said chain against said sprocket wheel, and means for driving said sprocket chain comprising a sprocket gear and a friction connection between said gear and said first-mentioned drum.

1,457,823. WHEELED WEEDER. IMMANUEL DAMMEL and THOS G. DAMMEL, Geraldine, Mont. Filed Mar. 13, 1922. Serial No. 543,468. 3 Claims. (Cl. 97—40.)



1. An apparatus of the class described comprising a supporting frame carrying traction wheels, radius bars swinging from said supporting frame, a drum device having weed severing elements and mounted upon said radius bars and rotative by contact with the ground, rods connected relative to said drum, collars slidably engaging said rods, springs attached to said rods and bearing against opposite sides of said collar, and operative means carried by said frame and attached to said collar.

1,457,824. TOOTH HOLDER. GEORGE R. DE NISE, Rochester, Minn. Filed June 17, 1922. Serial No. 569,068. 6 Claims. (Cl. 32—4.)



6. A holder for teeth for the purpose set forth embodying an arcuate portion with resilient end members adapted to engage the cheeks of the wearer upon opposite sides of the jaw, said arcuate portion being continuous and uninterrupted from one end member to the other, said end members being enlarged vertically to extend above and below the upper and lower teeth.

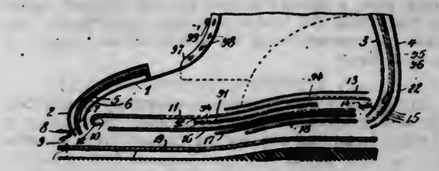
1,457,825. SCREW JACK. PAUL J. DEVAN, Windber, Pa. Filed May 16, 1921. Serial No. 469,923. 1 Claim. (Cl. 254—102.)

A hoisting jack comprising a hollow base member having an annular seat in its upper end and communicating with the interior of the base and provided with a laterally extending bearing, an externally threaded stock, an annular member having an external gear rack and internally threaded to engage the stock and mounted for rotation in said seat, said annular member having an annular outwardly opening seat in its upper face, a shaft mounted in said laterally directed bearing, a gear member carried by said shaft and engaging said gear rack, means for forcibly rotating said shaft to communicate



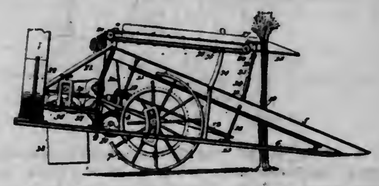
motion to said annular member, and an annular holding ring attached to said base and engaging in the seat of said annular gear.

1,457,826. PROCESS OF MAKING SHOES, BOOTS, ETC. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 18, 1918. Serial No. 258,742. 22 Claims. (Cl. 18—59.)



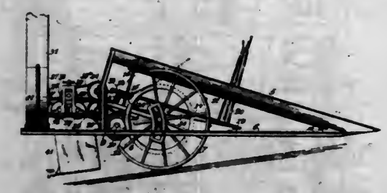
1. The process of forming a stiffened footwear member which comprises simultaneously compressing and heating vulcanized rubber composition and fabric impregnated with phenolic condensation cementing material and a metallic reenforcement engaging said fabric to cure and stiffen said fabric and unite such elements.

1,457,827. HEAD-TOPPING ENSILAGE HARVESTER. IRWIN H. ERB, Lake Mills, Iowa, assignor of three-fourths to Claude C. Hobson, Ryan, Iowa, and Ota O. Hobson, Vinton, Iowa. Filed Mar. 24, 1921. Serial No. 455,005. 3 Claims. (Cl. 56—63.)



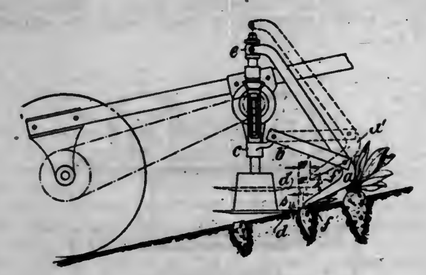
1. In a cane harvester having cutting mechanism to sever the stalks from the hills, means to convey the stalks backwardly, and means adapted to express the juice, a topper, comprising elevated cutters, actuating mechanism therefor, and conveying means to carry the seed-heads away in a course different from that of the stalks.

1,457,828. JUICE-EXTRACTING ENSILAGE HARVESTER. IRWIN H. ERB, Lake Mills, Iowa, assignor of three-fourths to Claude C. Hobson, Ryan, Iowa, and Ota O. Hobson, Vinton, Iowa. Filed Mar. 24, 1921. Serial No. 455,006. 2 Claims. (Cl. 56—61.)



1. In a silage harvester having feed-rolls for advancing the severed stalks, a chopper to cut the stalks into short pieces, a set of juice-expressing rolls disposed between the feed-rolls and the chopper, and means for actuating the feed-rolls, juice-expressing rolls and chopper concurrently.

1,457,829. KNIFE CONTROL IN MACHINES FOR HARVESTING SUGAR BEETS. LUDWIG EAHARDT, Bernburg, Germany, assignor of one-half to W. Siedersleben & Co., Bernburg, Germany. Filed Dec. 15, 1921. Serial No. 522,495. 3 Claims. (Cl. 55—107.)



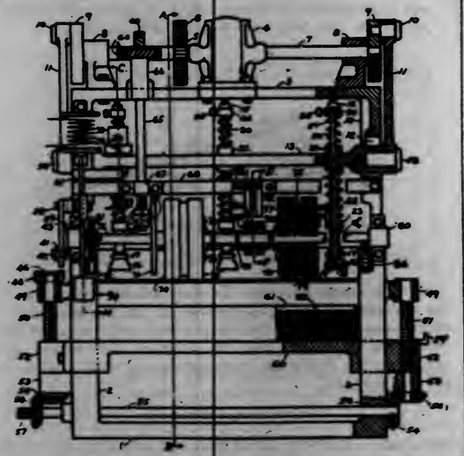
1. An improved knife control in machines for harvesting sugar beets comprising in combination with the feeler, the cutting knife, the knife spindle and the support for the knife spindle, a link connecting said feeler with said support, and an upwardly directed extension of the feeler hingedly connected with the knife spindle.

3. An improved knife control in machines for harvesting sugar beets comprising in combination with the feeler, the cutting knife, the knife spindle and the support for the knife spindle, a link connecting said feeler with said support, and a two armed lever hingedly connected at one end with the frame of the machine having slots, and hingedly and adjustably connected at the other end with the upper end of said feeler, a collar revolubly connected upon said knife spindle so that it cannot move in longitudinal direction and lateral studs of said collar engaging with the slots of said two armed lever.

1,457,830. AUTOMATIC WORK FEEDER. REGINALD B. GERHARDT, Sparrows Point, Md. Filed Aug. 18, 1921. Serial No. 493,480. 7 Claims. (Cl. 271—31.)

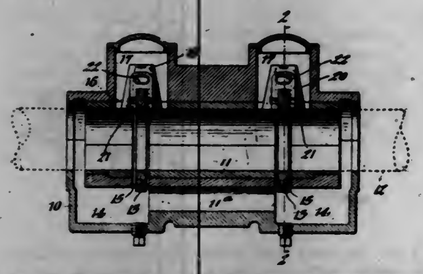
1. A sheet feeding and delivering machine comprising a frame, a vertically movable feed table, a plurality of picker elements, means on said frame for reciprocating said picker elements, rotary magnetic means for receiving sheets from said picker elements, adjustable means for releasing a sheet from said picker elements simultane-

ously with the receipt of said sheet by said rotary magnetic means, means for rotating said rotary magnetic



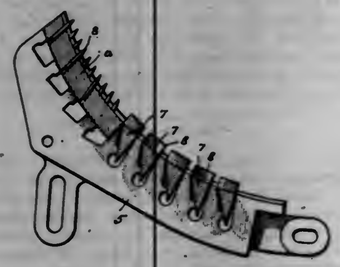
means whereby a sheet is moved horizontally, and pinch rolls adapted to remove said sheet from said rotary magnetic means.

1,457,831. SHAFT BEARING. JOHN I. GUETL, Buffalo, N. Y. Filed Jan. 3, 1921. Serial No. 434,462. 1 Claim. (Cl. 64—24.)



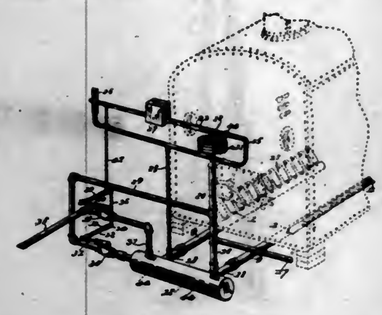
An oil distributing saddle for bearing boxes, comprising a plate having in its lower edge a notch for receiving an oil-elevating device, and provided in its side between said notch and the upper edge of the plate with a relief-passage extending through the plate.

1,457,832. COTTON OPENER. JAMES T. HALL, Albany, Ga. Filed Oct. 6, 1922. Serial No. 592,888. 1 Claim. (Cl. 19—95.)



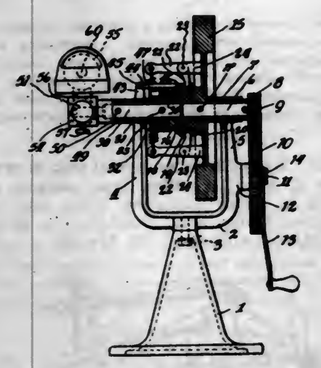
A grid for cotton openers consisting of a comb-board arranged at the entrance end of the grid and provided with rigid pointed spikes inclined against the direction of movement of the cotton, and a grid surface below said comb-board, said grid surface consisting of a plurality of spaced grid-bars carrying on their working faces a plurality of oppositely-inclined oblique deflecting ribs.

1,457,833. GAS BURNER. WILLIAM E. HANCOCK, Tulsa, Okla. Filed Mar. 18, 1922. Serial No. 544,936. 6 Claims. (Cl. 158—7.)



1. In a furnace fuel feeding apparatus, a header having branches, fuel feeding pipes connected thereto, burners radiating from the said pipes and extending obliquely with relation to the axis of the pipes, means for supplying gas to the header, a steam pipe extending into the header and having jets discharging through the branches of the header and mixing the steam and gas, a steam actuated element in communication with the steam supplying pipe, a member moved by said element, valves for controlling the steam and gas supply pipes, and means for communicating the motion of the member to the said valves.

1,457,834. CENTRIFUGAL CASTING MACHINE. JOSEPH D. HAMMOND, Jackson, Mich. Filed Dec. 5, 1921. Serial No. 520,053. 4 Claims. (Cl. 22—65.)

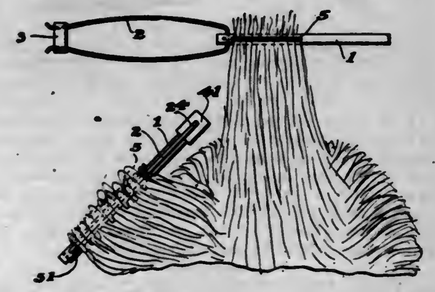


1. A device of the character described comprising a pouring instrumentality adapted to normally hold a molten metal, a flask adapted to receive metal from the pouring instrumentality, a beam, means for adjustably securing the poring instrumentality to the beam, means for adjustably securing the flask to the beam in adjusted position relative to the pouring instrumentality, a shaft connecting at its outer end with the beam intermediate the length of the latter, a shaft for driving the first named shaft, means for rotatably supporting the first named shaft and the drive shaft in co-axial alinement, cooperating means carried by said shafts at their adjacent ends for causing the operative engagement of said first named shaft by the drive shaft, and means for rotating the drive shaft.

1,457,835. PROCESS FOR PRODUCING CATALYTIC MATERIAL FOR HYDROGENATING UNSATURATED OILS AND FATS TO HARDEN THEM. JOHN P. HARRIS, Chicago, Ill., assignor to The Allbright-Nell Co., Chicago, Ill., a Corporation of Illinois. Filed July 3, 1920. Serial No. 393,871. 11 Claims. (Cl. 23—28.)

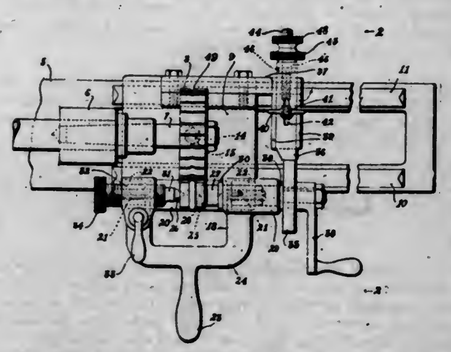
9. The process of forming catalytic material which includes grinding a mixture of a fatty acid salt, of a metal having catalytic properties suitable for use in hydrogenizing oils together with an inert comminuting material, mixing the comminuted salt with oil, and applying heat to the mixture to decompose the salt.

1,457,836. WAVER FOR HAIR. JOHN A. HARTVIG, Oakland, Calif. Filed Oct. 31, 1922. Serial No. 598,060. 9 Claims. (Cl. 132—33.)



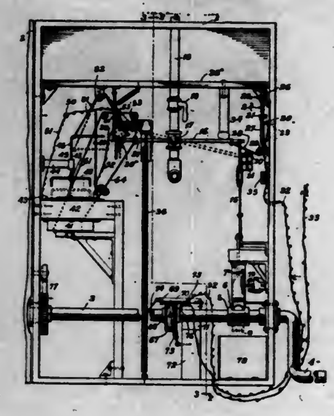
1. A hair waver comprising a tube, a yoke pivotally secured to one end thereof, means for connecting together the free ends of the yoke and tube, a rod insertible within the free end of the tube, and means associated with the free end of said yoke for engaging the rod when inserted to prevent its accidental removal.

1,457,837. WORK-CONTROLLING ATTACHMENT FOR LATHES. HARRY N. HAYFORD, Concord, N. H., assignor to William B. Durgin Company, Concord, N. H., a Corporation of New Hampshire. Filed May 13, 1920. Serial No. 380,999. 11 Claims. (Cl. 90—13.3.)



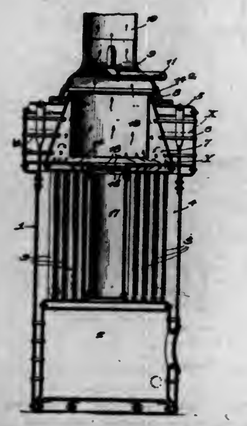
1. A work-controlling attachment for use on a lathe provided with a rotary cutter having, in combination, a pattern wheel, a fixed templet with which the pattern wheel is adapted to cooperate to determine the shape imparted by the cutter to the work, means for rotatably supporting in fixed relation to each other the work and the pattern wheel constructed and arranged to permit manual movement of the work and the pattern wheel into and out of engagement with the cutter and the templet, respectively, and means for rotating the work and the pattern wheel while they are engaged by the cutter and templet, respectively.

1,457,838. TIME SLOT METER. CHARLES PATTON HENRY, Fairfax, Va. Filed Aug. 16, 1921. Serial No. 492,811. 2 Claims. (Cl. 161—7.)



1. In a device of the class described, the combination of a support having a valve provided with a lever, means for manually shifting said lever in one direction, a catch plate on said lever, a latch plate pivotally carried by said support for engaging said catch plate for holding said lever in a set position, a solenoid engaging said latch plate, a fixedly supported inclined rod, a pivotally supported angle rod carried near said inclined rod, means electrically connecting said rods to said solenoid, and means for turning said angle rod to engage said inclined rod, as and for the purposes set forth.

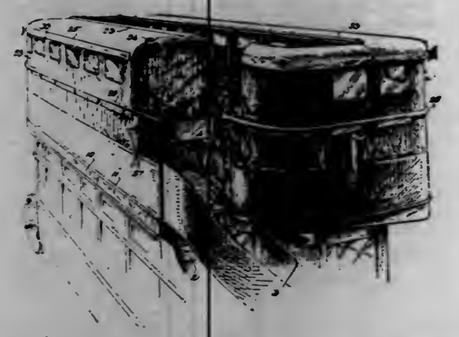
1,457,839. BOILER ATTACHMENT. GEORGE D. HUNTER, Bloomington, Ind. Filed Oct. 31, 1919. Serial No. 334,892. 3 Claims. (Cl. 110—97.)



1. A boiler of the character described having a plurality of vrtical flues, a tube disposed within said boiler

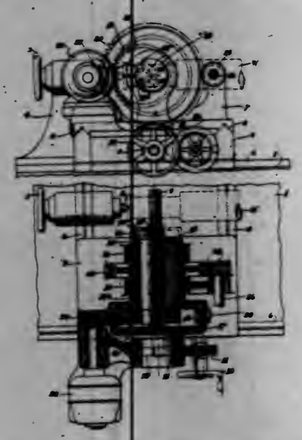
and above said flues, a baffle below said tube and spaced therefrom, the total of the circumferential area between said baffle and said flues being an area substantially equal to the cross sectional area of all of said flues covered by the baffle.

1,457,840. BUS. ALBERT E. HUTT, Detroit, Mich. Filed June 8, 1922. Serial No. 566,757. 4 Claims. (Cl. 296—28.)



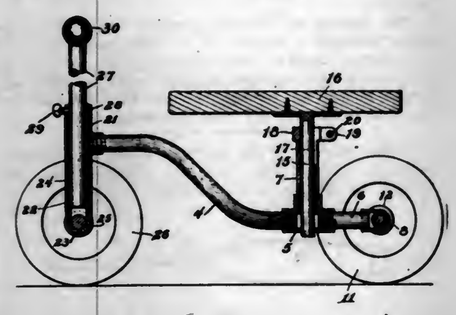
1. In a device of the character stated, a passenger carrying vehicle, having an upper deck provided with seats at opposite sides thereof, separated by a central aisle and laterally extending permanent, continuous upper deck roof sections projecting inwardly from the outer upper deck walls over said seats, and provided with a longitudinal opening in vertical alignment with and of about the same width as said central aisle extending from the front to the rear of said roof sections, the height of said roof sections from the upper deck floor being greater than the height of the seated passenger and less than the height of the average standing passenger, so that the head of the latter projects above said roof sections when standing in said central aisle.

1,457,841. TOOL FOR PULLING GEARS, ETC., FROM THEIR SHAFTS. ALFRED A. JOHNSON, Chico, Calif. Filed Feb. 10, 1921. Serial No. 444,020. 3 Claims. (Cl. 29—85.)



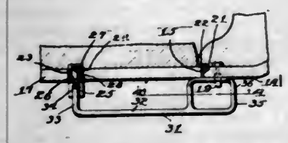
1. A device of the character described comprising a body member having a plurality of slots therein; hooked members arranged in said slots; a threaded member adjustably positioned in said body member and movable axially relative thereto for imparting axial movement to said hooked members and an auxiliary threaded member mounted within said first mentioned threaded member and movable axially relative thereto for imparting axial movement to said body member.

1,457,842. TOY VEHICLE. JOHN C. KASHMERE and JAMES K. ROBERTS, Wilkes-Barre, Pa., assignors to Walter C. Williams, Wilkes-Barre, Pa. Filed Feb. 23, 1922. Serial No. 538,685. 8 Claims. (Cl. 208—165.)



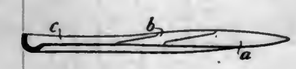
1. In a toy vehicle, a frame including a longitudinal bar, an axle carried at the rear end of the bar, rear wheels carried by said axle, a T-union at the forward end of the bar, a steering post rotatably mounted in said T-union, a second T-union at the lower end of said steering post, a front axle journaled in said second T-union, front wheels carried by said front axle, and handle bars carried by said steering post.

1,457,843. VEHICLE SEAT. ELIAS LASHER, Catskill, N. Y. Filed Mar. 5, 1921. Serial No. 449,994. 5 Claims. (Cl. 155—7.)



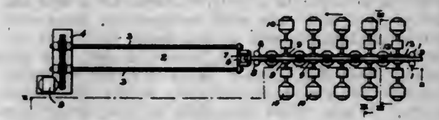
1. In combination with a vehicle body, a vehicle seat having a seat proper, a back, holding means thereon, a panel hinged to the back, a hand-rail carried by said panel, a looped handle on the hand-rail, and a lug on the handle engaging said holding means.

1,457,844. PRODUCTION OF METAL AIRSCREWS OR PROPELLERS. HENRY LEITNER, London, England. Filed Jan. 16, 1922. Serial No. 529,761. 1 Claim. (Cl. 29—148.2.)



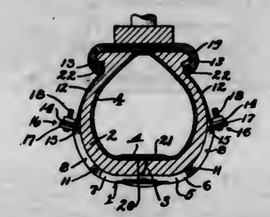
A method of constructing the hollow blades of metal air-screws or propellers of the kind hereinbefore referred to consisting in first cutting the outer sheath or sheet and the laminations for each half blade from flat sheet metal, then welding such outer sheet and laminations together at the edges, then subjecting such welded sheets to a temperature to enable them to be pressed between dies to the required curvature and finally securing the half blades together at their edges, substantially as described.

1,457,845. BAR-GRINDING MACHINE. JAMES S. LOCHHEAD, Pittsburgh, Pa. Filed Apr. 8, 1922. Serial No. 550,595. 1 Claim. (Cl. 51—112.)



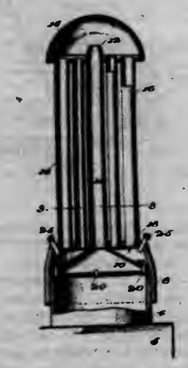
In a machine for grinding in a single traverse the surfaces of steel bars as they advance uninterruptedly through the machine the combination of a plurality of grinding disks arranged with their flat grinding faces extending in the opposite bounding planes of the pathway of bar advance, the said discs being rotatable on axes perpendicular to the line of bar advance, a pair of feeding rolls arranged on the intake side of the assembly of disks and adapted to engage a bar on opposite sides and impel it from behind along the pathway between said disks, and a tension device including bar-gripping jaws and a rotatable stem screw-threaded in a stationary block arranged on the delivery side of the assembly of disks and adapted to engage a bar and draw it from ahead along said pathway.

1,457,846. MEANS FOR PATCHING BLOW-OUTS IN PNEUMATIC TIRES. THOMAS HARVEY MCDONALD, Adelanto, Calif. Filed May 17, 1922. Serial No. 561,697. 3 Claims. (Cl. 152—24.)



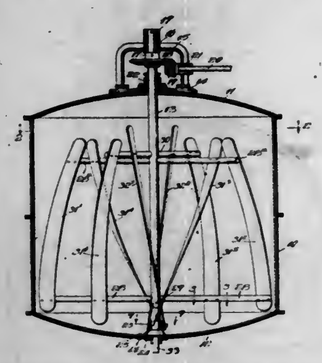
2. In a device of the character set forth, a clamp comprising a bar adapted to engage the periphery of a tire; means pivotally connected at one end to one end of said bar and adapted at its other end to engage the rim of a wheel; a link pivotally connected to the other end of said bar; and an attaching member connected at one end to said link and adapted at its other end to engage the rim of a wheel for the purpose specified.

1,457,847. CONDENSER. LAWRENCE D. MCEWEN, Des Moines, Iowa. Filed June 19, 1922. Serial No. 569,528. 2 Claims. (Cl. 257—25.)



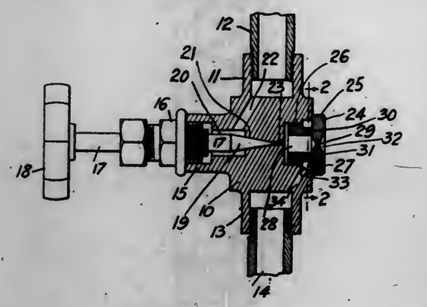
1. A condenser for automobile radiators comprising a cap having means whereby the same may be secured to the nipple of a radiator, a cone-shaped bottom wall arranged within said cap and having its outer edge secured to the cap at a point spaced intermediate the upper and lower ends of the same, the apex of the cone-shaped bottom wall being connected to the top of the cap, an outlet pipe having communication with the apex of said bottom wall and having its upper end formed with a nozzle, a header receiving the nozzle of said pipe, a plurality of return pipes connected to said header, the lower ends of said return pipes being connected to said cap.

1,457,848. AGITATOR. TIMOTHY MOJONNIER, Oak Park, Ill., assignor to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,403. 26 Claims. (Cl. 259—107.)



1. The combination with a tank, of an agitating mechanism therein including a first set of inclined blades extending in a general direction throughout the greater portion of the length of the tank near its outer wall and serving by their inclination to produce an outer current of the contents lengthwise of the tank in one direction, and a second set of inclined blades of substantially the same length as the first set and movable in a path just inward of and concentric and immediately adjacent to the path traversed by said first set and serving by their inclination to produce a lengthwise current in the opposite direction, the blades of the second set being located so as to alternate with the blades of the first set in passing a given point.

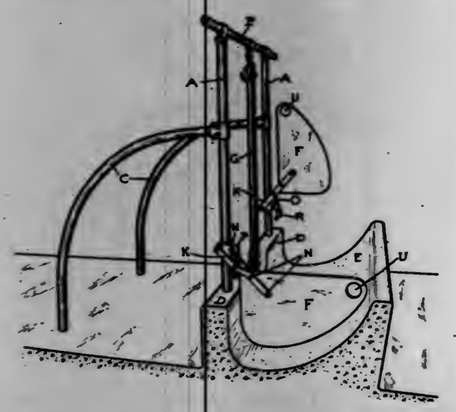
1,457,849. BURNER. ALBERT W. MORSE, Forest Hills, N. Y. Filed Sept. 23, 1920. Serial No. 412,120. 2 Claims. (Cl. 158—76.)



2. A fuel burner comprising in combination a body casing having a fuel connection at one end and an air connection at the other end, a fuel regulating valve interposed between the said connections, a discharge nozzle consisting of a single unit of substantially cylindrical shape screwed into the body casing and having an open

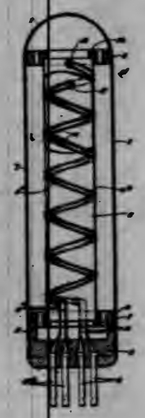
chamber at the end nearest the said regulating valve and a small outlet opening at its other end, orifices through the walls of the said chamber and substantially tangent to the walls thereof and in angular relation to its longitudinal axis, an annular chamber in the body casing surrounding the outer terminals of the said orifices, and a passage between the said annular chamber and the air connection.

1,457,850. DIVISION FOR ANIMAL MANGERS. ALBERT H. NELLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Feb. 9, 1922. Serial No. 535,173. 6 Claims. (Cl. 119—27.



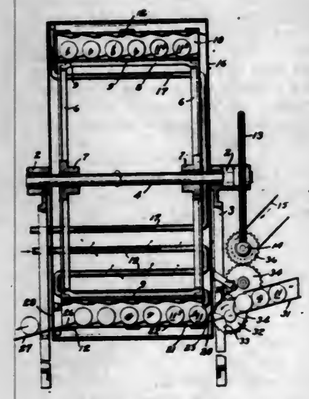
I. In manger divisions for animal stalls, the combination of a division member adapted to fit the transverse contour of the manger, said member being hinged to a portion of the stall frame, and adapted to be elevated and lowered thereon, and pivoted locking means to alternately and automatically lock the division member in elevated and in lowered position.

1,457,851. VOLTAGE REGULATOR. ARTHUR F. NESBIT, Wilkinsburg, Pa. Filed Aug. 27, 1921. Serial No. 495,992. 4 Claims. (Cl. 171—229.)



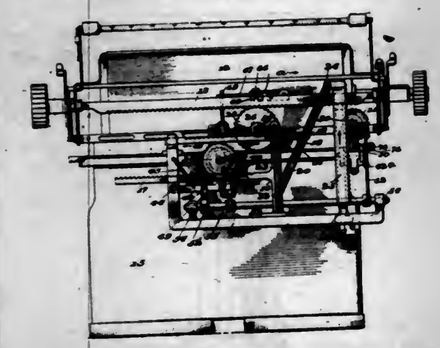
1. A voltage regulator comprising a hollow air tight body portion, a thin tubular insulating support rigidly mounted in said body portion, a metal resistance strip coiled around the interior surface of said support, a second metal resistance strip coiled around the outer surface of said tubular support, said strips having their convolutions arranged in a parallel course along said support so that said outer strip overlies said inner strip, said strips being formed of such metal that their conductivity will vary as they become heated, and said tubular insulating member being adapted to readily transmit the heat from one strip to the other, leads secured to said strips, and each of said strips being adapted to be connected to separate electrical circuits.

1,457,852. APPARATUS FOR TREATING PACKAGED GOODS. ELMER C. NORTHRUP, San Francisco, and EDWARD H. SPECHT, Oakland, Calif. Filed June 23, 1920. Serial No. 391,046. 27 Claims. (Cl. 126—272.)



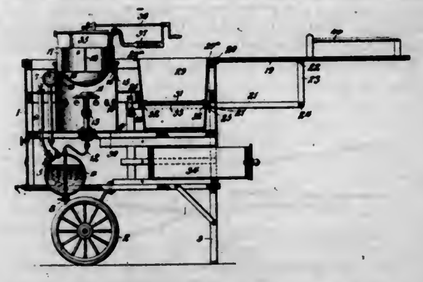
1. An apparatus for treating packaged goods, comprising a runway for said packages, means for inverting the runway, and means stationary relative to the runway and operative by inversion of said runway for causing said packages to progress therethrough.

1,457,853. JUSTIFYING DEVICE FOR TYPEWRITERS AND THE LIKE. KENNETH C. O'BRYAN and JAMES WM. O'BRYAN, Washington, D. C. Filed Mar. 18, 1922. Serial No. 544,872. 14 Claims. (Cl. 197—84.)



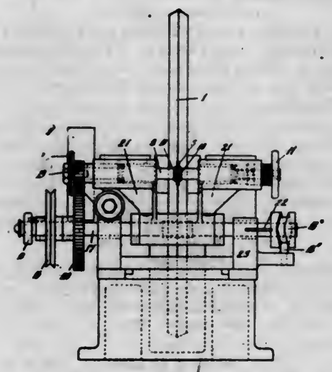
13. A line justifying device for typewriters having a carriage and an escapement, and adjustable means between the escapement and the carriage controlling the extent of each movement of the carriage at each actuation of the escapement including an inclined controlling member whose degree of inclination controls the extent of each operative movement of the carriage, and means for adjusting the inclination of said member.

1,457,854. CORN POPPER. ROBERT D. PARKS, Lohrville, Iowa, assignor to W-M-P Manufacturing Co., Lohrville, Iowa, a Corporation of Iowa. Filed Feb. 3, 1919. Serial No. 274,688. 13 Claims. (Cl. 53—4.)



12. A corn popper comprising a cabinet, and a pan located at one end of the cabinet, within the same and having its top opening out at the top of the cabinet, and a hinged cover for the cabinet for closing the pan and movable to an open position at one side of the pan and then constituting a working table in substantially the same horizontal plane as the top of the cabinet, said corn popper being provided with supporting means including wheels, and a propelling handle movable into and out of the cabinet and when extended constituting a support for the open cover.

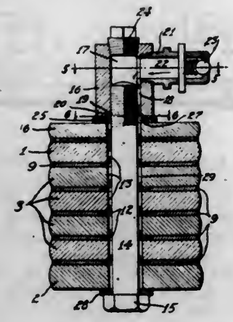
1,457,855. MACHINERY FOR BEVELING THE EDGES OF GLASS LENSES AND THE LIKE. SIDNEY RICHARDSON, Hatton Garden, London, England. Filed Apr. 4, 1921. Serial No. 458,494. 6 Claims. (Cl. 51—.01.)



1. An apparatus for beveling the edges of spectacle lenses and the like comprising, in combination, a grinding wheel having a V or double bevelled edge of male or projecting form, means for mechanically rotating said wheel, means comprising a rotatable swivelling spindle for supporting the lens, a rotary and reciprocatory driving spindle means for imparting rotation and reciprocation from said driving spindle to said lens-carrying spindle, means comprising a cam device for imparting a longitudinal reciprocating motion to said driving spindle, and means for regulating the distance between the axis of rotation of the grinding wheel and the axis of rotation of the lens during the rotation and reciprocation of said lens-carrying spindle.

1,457,856. SPRING STRUCTURE. CARLYLE W. ROGERS, Warren, Pa. Filed Mar. 1, 1922. Serial No. 540,283. 3 Claims. (Cl. 267—50.)

1. A spring-structure comprising superposed leaves; a spacer-element disposed between the facing surfaces of certain of the leaves, said spacer-element comprising a body shaped to conform approximately with the edge contour of one of the leaves between which it is placed and provided with an elongated cut-out portion having side and end walls and a centrally disposed enlarged portion for the reception of a bolt; a bolt of smaller external cross-sectional area than the centrally disposed enlarged portion of the insert members passing through the leaves and insert members in spaced relation thereto to constitute a channel between the outer surface of

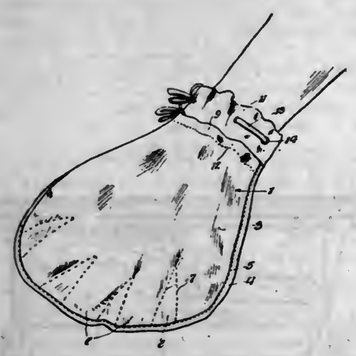


the bolt and the walls of the opening through which the bolt passes and communicating with the elongated cut-out portion of the insert members; a head on one end of the bolt; a nut on the other end provided with a lubricant receiving and storing chamber; means, including a groove provided in one of the members, establishing communication between the lubricant receiving and storing chamber and the space between the bolt and spring leaves; and a cut-away portion of the nut, communicating with the groove, and constituting a distributing space for lubricant passing through the groove.

1,457,857. METAL POLISH. WILLIAM ALBERT RUDDELL, Asbury Park, N. J. Filed Dec. 28, 1921. Serial No. 525,446. 1 Claim. (Cl. 134—24.5.)

A polishing composition comprising a mixture of silver-potassium cyanide, potassium cyanide, potassium nitrate, borax, whiting, water and alcohol, in the proportions resulting from the ingredients named in the quantities herein specified.

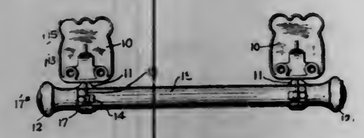
1,457,858. SWIMMING MITT. WILLIAM ALBERT RUDDELL, Asbury Park, N. J. Filed July 12, 1922. Serial No. 574,455. 1 Claim. (Cl. 9—21.)



A hand covering of the class described, comprising palm and back portions united to provide finger stalls and intervening webs, the portions at their minor ends being provided with a draw string whereby the said end of the

covering may be closed about the wrist, a wrist band within the said end of the covering, and means independent of the draw string whereby the wrist band may be closed about the wrist.

1,457,859. CASKET HANDLE. EDWARD R. SARGENT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Feb. 28, 1921. Serial No. 448,296. 13 Claims. (Cl. 16—112.)



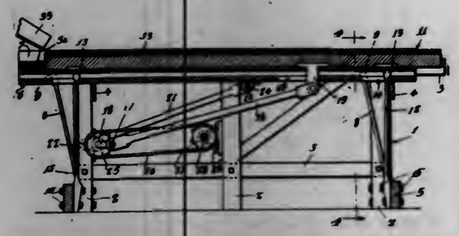
4. A casket handle, including a handle bar, an integral arm and tip for said bar, the end of the bar being adapted to be received within the arm and tip, and a lip struck up from said bar and embracing a portion of said arm to prevent separation of said parts.

1,457,860. SEWING CASE. BERTIE S. SCHWED, Far Rockaway, N. Y. Filed Nov. 2, 1921. Serial No. 512,215. 3 Claims. (Cl. 223—53.)



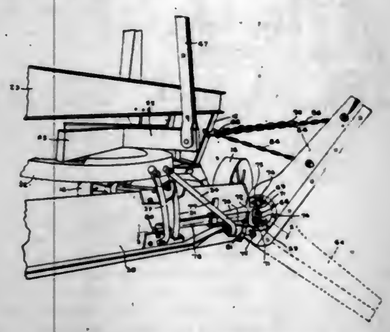
1. A sewing case consisting of a plurality of detachable sections resting one above the other, the bottom member of each section forming the top of the section underneath when the case is fastened together said member being provided with means to receive and contain sewing implments and accessories on the under side thereof.

1,457,861. FRUIT CLEANER. FRED STEBLER, Riverside, Calif., assignor to Stebler Parker Co., Riverside, Calif., a Corporation of California. Filed Sept. 5, 1922. Serial No. 586,374. 9 Claims. (Cl. 146—14.)



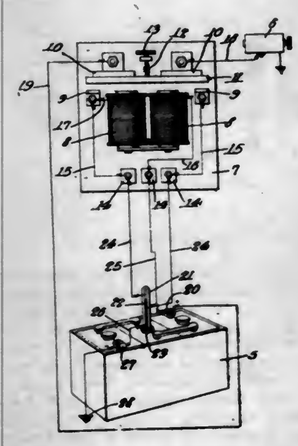
8. In a fruit cleaner, the combination of a plurality of bars held against rotation and for reciprocation in a longitudinal direction, brushes fixed to the bars for engaging the fruit, and means for producing a relative longitudinal movement of the bars with respect to each other while engaging the fruit.

1,457,862. ROAD-GRADING MACHINE. CHARLES K. STOCKLAND, Minneapolis, Minn. Filed Oct. 17, 1921. Serial No. 508,067. 5 Claims. (Cl. 37—156.)



1. In combination with the main blade of a road grading machine, an auxiliary blade, a clamping member, means for securing said auxiliary blade to said clamping member, a lug on said clamping member adapted to engage the front surface of the main blade at one end thereof, and adjustable means carried by the upper and lower portions of said clamping member for engagement with the rear surface of the main blade whereby adjustment of said adjustable means causes the inclination of said auxiliary blade to be varied.

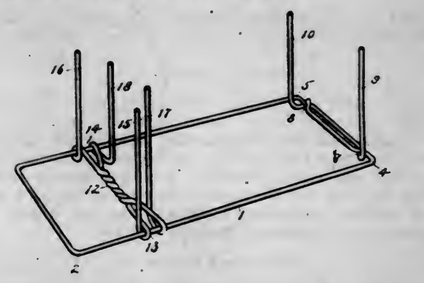
1,457,863. DEVICE TO CONTROL THE TEMPERATURE OF STORAGE BATTERIES IN AUTOMOBILES. WILLIAM A. STRAWMYER and VANE BEAMAN, Atlanta, Ga. Filed Nov. 4, 1920. Serial No. 421,800. 1 Claim. (Cl. 171—314.)



In a device for controlling the temperature of a storage battery, the combination with the storage battery and a generator electrically connected for charging the storage battery, of a circuit breaker in the circuit which connects the generator with the storage battery, said circuit breaker including an armature and an electro-magnet, a pair of normally disconnected contacts in position to be electrically connected by said armature and said electro-magnet the armature being adapted to break

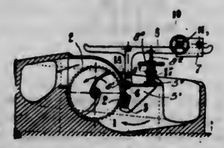
the circuit between the generator and storage battery, a thermostat extending through the top of the storage battery from the interior to the exterior and including an upper and a lower and an intermediate electric contact, said thermostat also including an expansible element which is constantly in electric connection with the said lower and being movable into and out of electric connection with the said intermediate and upper electric contacts, an electric conductor connecting one of said normally disconnected contacts with the said intermediate contact, an electric conductor connecting the other one of normally disconnected contacts with the said upper contact of the thermostat, a conductor connecting one terminal of said electromagnet to one of said normally disconnected contacts, and a conductor connecting the other terminal of said electro-magnet with said storage battery, means being provided to automatically move the said armature away from said normally disconnected contacts into the position for closing the charging circuit between the said generator and storage battery, for the purpose specified.

1,457,864. PHOTOGRAPHIC-FILM HOLDER. HARRY C. STRIEKER, Cincinnati, Ohio. Filed July 19, 1922. Serial No. 575,944. 3 Claims. (Cl. 95—100.)



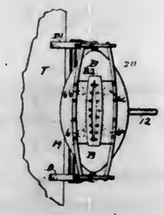
1. A photographic film holder comprising an open wire frame formed from wire with the end portions interlocked to form one end of the frame, and with the ends projecting upward to form posts, and a slide piece mounted on the frame to slide lengthwise thereof and provided with upright posts to co-operate with the frame posts for holding a web of film.

1,457,865. APPARATUS FOR COMMINUTING, REFINING, AND TRITURATING PAPER OR CARDBOARD PULPS. KRISTEN ANDREAS THORSEN, Grenoble, France. Filed Feb. 10, 1920. Serial No. 357,749. 4 Claims. (Cl. 92—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a pulp engine, the combination of a relatively-fixed knife cylinder; a knife-plate cooperative therewith; a movable carrier for the knife-plate mounted to swing toward and from the cylinder, and beneath which carrier the stream of pulp is introduced and caused to flow to the point where it is engaged by the coacting knives of the cylinder and plate; a pivotally-mounted, angular lever; a counterweight slidably mounted on one arm of said lever; and means, including a spring, for transmitting the pressure exerted by the weighted arm of the lever to the carrier so as to force the latter and the knife-plate toward the cylinder.

1,457,866. BALL COMPRESSOR. PHILLIP H. WILLIAMS, Fresno, Calif. Filed Feb. 18, 1922. Serial No. 537,617. 3 Claims. (Cl. 100—57.)



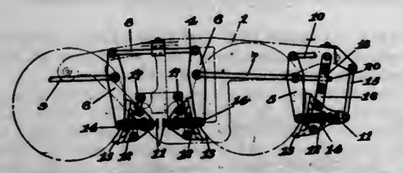
1. In a device for compressing balls of the character described, the combination of a base adapted to hold the ball in a fixed position, compression jaws curved to conform approximately to the curvature of the ball along the line of the opening in said ball, and means for moving said jaws toward each other and pressing said jaws downward simultaneously, substantially as described.

1,457,867. LINGUAL BAR. REGINALD V. WILLIAMS, Buffalo, N. Y., assignor to Williams Gold Refining Co., Buffalo, N. Y., a Corporation of New York. Filed Sept. 19, 1921. Serial No. 501,740. 9 Claims. (Cl. 32—4.)



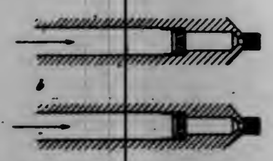
8. A lingual bar having an end portion provided along its margins with two series of substantially V-shaped depressions with their apexes facing inwardly, forming zigzag corrugations on the side of said end portion, said depressions increasing in depth toward the edges of said end portions and forming a series of teeth along each edge thereof.

1,457,868. BRAKE MECHANISM. KARL O. WINELL, Pittsburgh, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 7, 1921. Serial No. 483,042. 9 Claims. (Cl. 188—212.)



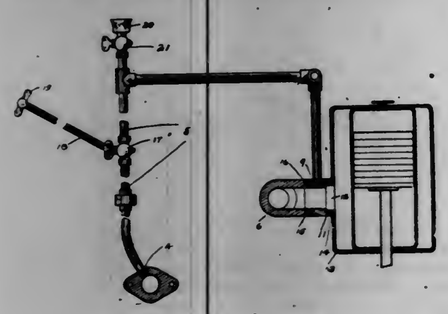
5. In a brake mechanism, a brake beam, a plurality of hangers for supporting each end of the beam, said hangers being connected with the opposite sides of the ends of said beam and adapted to maintain said beams in substantially its predetermined position as it is moved when the braking power is applied and when the braking power is released.

1,457,869. METHOD OF AND APPARATUS FOR PREVENTING THE BURNING OF GAS-PRESSURE-REDUCING VALVES. ERNST WISS, Griesheim-on-the-Main, Germany, assignor to the firm Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 18, 1921. Serial No. 485,763. 8 Claims. (Cl. 50—15.)



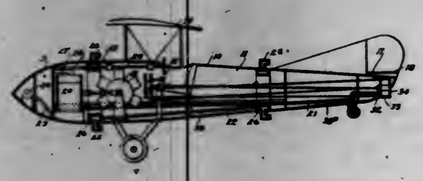
1. The method of preventing the burning of gas pressure reducing valves by producing in the gas which is under pressure a vertical motion prior to impingement thereof on the valve.

1,457,870. GAS-SAVING AND CARBON-ELIMINATING ATTACHMENT FOR AUTOMOBILE GAS ENGINES. JOHN HENRY ZURBORG, Covington, Ky., assignor of one-half to Jerome G. Wilde, Covington, Ky. Filed Sept. 1, 1920. Serial No. 407,421. 2 Claims. (Cl. 407,421. 2 Claims. (Cl. 123—180.)



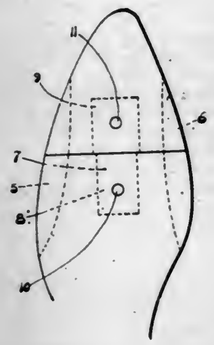
1. In an automobile gas engine, an engine-casing, an exhaust-manifold, a carbureter, an intake-manifold, a tubular connection having a collar at one end adapted to be detachably inserted between and connected to the carbureter and intake-manifold and having at the other end a detachable insert connection adapted to fit between and connect said exhaust-manifold and engine-casing.

1,457,871. AEROPLANE CONSTRUCTION. MICHAEL BONSIAKOS, San Francisco, Calif. Filed June 20, 1921. Serial No. 481,292. 4 Claims. (Cl. 244—18.)



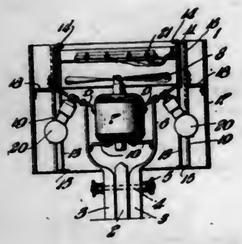
1. An aeroplane propulsion means comprising a plurality of rearwardly extending nozzles arranged in groups around the body of the aeroplane; a power plant; air compression means driven by said power plant; and controlling means between the compressor and the nozzles.

1,457,872. SHOE LAST. JOSEPH W. BROCKMAN, Cincinnati, Ohio, assignor to The Cincinnati Last Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 11, 1922. Serial No. 574,234. 1 Claim. (Cl. 12—133.)



A shoe last comprising a body, a renewable toe portion, and means for securing the toe portion to the body portion, said means comprising a central dowel recessed into the body and toe portion, the wood of the body and toe entirely surrounding the dowel, and side dowels recessed into the sides of the body and toe.

1,457,873. HEAT-FOCUSING DEVICE FOR COMBINED ELECTRIC LAMPS, HEATERS, AND BLOWERS. WILLIAM A. BROWN, Philadelphia, Pa. Filed Sept. 14, 1922. Serial No. 588,106. 11 Claims. (Cl. 219—39.)

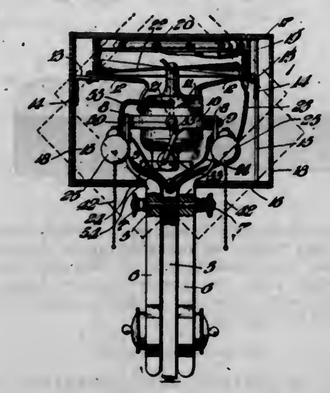


1. In a device of the character stated, a combined electric heater and blower, a guard in proximity to said heater and an outer shade member telescopically supported and longitudinally movable with respect to said guard.

1,457,874. COUNTERBALANCING AND OSCILLATING DEVICE FOR ELECTRIC HEATERS AND LAMPS. WILLIAM A. BROWN, Philadelphia, Pa. Filed Sept. 14, 1922. Serial No. 588,107. 10 Claims. (Cl. 219—39.)

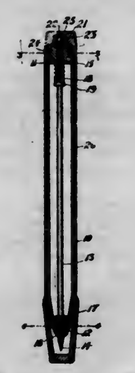
1. In a device of the character stated, an electric heater, an electric blower supported in proximity to said heater to diffuse the heated air, means for causing said electric heater and blower to oscillate to and fro as a unit, in combination with an elongated arm

pivotally supported, said arm carrying at one end said heater and blower, and counterbalancing devices on the



other end of said arm, whereby vibration of said blower is eliminated, and the weight thereof and its adjuncts is balanced.

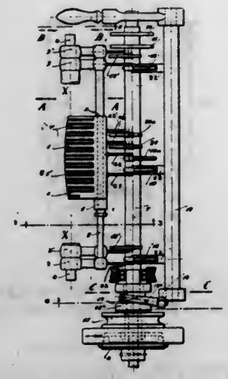
1,457,875. STYLOGRAPHIC FOUNTAIN PEN. NOEL H. COATES, Oakland, Calif. Filed Sept. 26, 1922. Serial No. 590,724. 6 Claims. (Cl. 120—45.)



1. A stylographic fountain pen comprising a barrel, a stylus, a spring-pressed stem on the stylus extending longitudinally of the barrel and guided in openings in the opposite ends of the barrel, a valve carried by the stem to control the opening in the bottom of the barrel, a vented cap fitted over the upper end of the barrel and a valve carried by the cap to control the opening in the upper end of the barrel, both of said valves being held normally closed by spring pressure and adapted to open when the stem is moved upwardly under the pressure exerted on the stylus in writing.

1,457,876. CIGAR-MAKING MACHINE. JEAN CORNELIS, Liege, Belgium. Filed Aug. 11, 1919. Serial No. 316,752. 6 Claims. (Cl. 131—5.)

6. In a cigar rolling machine in combination, means for rolling and shaping a cigar, a rotatable drive shaft for operating said means, and means for stopping the shaft, comprising a pair of similar cams disposed on the shaft out of phase with respect to each other, each cam having a point of maximum and minimum displace-

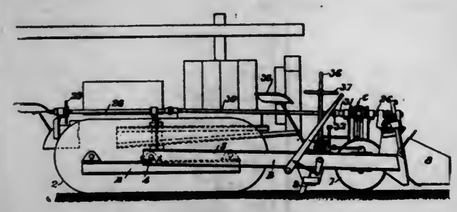


ment, and a pair of oppositely acting resilient members, one bearing on each cam and always seeking the point of minimum displacement.

1,457,877. RECOVERY OF AMMONIA. LEMAN E. DOTY, Elyria, Ohio. Filed Aug. 19, 1921. Serial No. 493,549. 5 Claims. (Cl. 23—21.)

1. The improved process for recovering ammonia liquor from by-product coke oven gas, which consists in cooling the gases to form condensates of tar and ammonia liquor, collecting said condensates, separating the tar and ammonia liquor, removing the ammonia liquor from the circulating system, recirculating the tar through the gas mains, and adding fluid to said gases prior to cooling them to absorb the ammonia in said gases and form ammonia liquor.

1,457,878. LAND-LEVELING DEVICE. LEWIS D. HOPFIELD, Natoma, Calif. Filed Sept. 13, 1922. Serial No. 587,944. 9 Claims. (Cl. 37—145.)

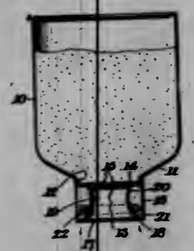


1. A land leveling device comprising a tractor, an auxiliary frame, a pivotal connection between one end of said frame and the tractor, wheels supporting the opposite end of the frame, a scraper carried by the auxiliary frame and operable when the tractor travels in one direction, and digging teeth carried by the auxiliary frame and operable only when the tractor is travelling in the opposite direction.

1,457,879. RECEPTACLE FOR HOLDING POWDERED MATERIAL OR THE LIKE. ARTHUR LINDENMAYER, Lansdowne, Pa. Filed Jan. 23, 1923. Serial No. 614,424. 8 Claims. (Cl. 221—62.)

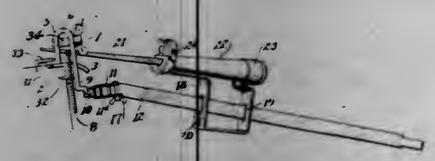
1. A receptacle comprising a body portion, a neck-element carried by the body portion and having its outer

end covered by an apertured plate, an inner plate mounted in the inner end of the neck-element and having an annular depression which is provided with an annular



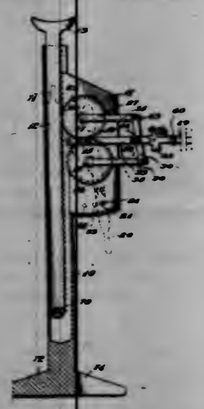
set of apertures, and a ring-valve mounted within the neck-element and adapted to enter the annular depression.

1,457,880. SAW-FILING DEVICE. FRANK H. MASOW, Berkeley, Calif. Filed June 1, 1921. Serial No. 474,074. 7 Claims. (Cl. 76—36.)



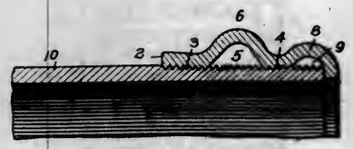
1. In a device of the character described, a clamping member for the reception of a saw, a guide rod secured to the said clamping member, an arm longitudinally movable freely on said rod, and a file supporting frame mounted for a free slidable and also a free rocking movement on the arm.

1,457,881. AUTOMOBILE JACK. JOHN PETER OWSIANEK, Ituna, Saskatchewan, Canada. Filed Apr. 26, 1922. Serial No. 556,903. 9 Claims. (Cl. 254—95.)



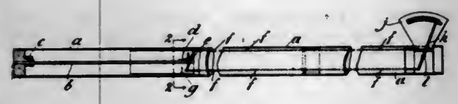
1. A lifting jack of the class described, comprising a hollow elongated body formed with a lateral hollow extension adjacent its upper end, a toothed rack slidably mounted within the hollow body, gears mounted in the extension, a lever designed to operate the gears, and means to control the position of the gears to raise, lower or lock the rack.

1,457,882. THREAD PROTECTOR. PETER J. SHRUM, Monaco Heights, Pa., assignor to Colona Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 9, 1919. Serial No. 302,952. 2 Claims. (Cl. 137—91.)



1. A thread protector comprising a rigid continuous annular blank having an inwardly turned retaining lip at one end, said blank having an outwardly bent rib thereon which forms an annular interior channel, and a relatively wide interiorly threaded portion adjacent each side of the channel.

1,457,883. ANNEALING AND APPARATUS USED THEREIN. FRANK TWYMAN, London, England, assignor to Adam Hilger, Limited, London, England. Filed Sept. 7, 1921. Serial No. 499,117. 7 Claims. (Cl. 73—31.)



1. The method hereinbefore described of ascertaining the time of relaxation of a substance, which consists in subjecting to the annealing heat a piece of the same substance as that to be annealed, placing said piece under sufficient stress to deform it a definite amount, periodically removing the stress and measuring the spring back of the piece.

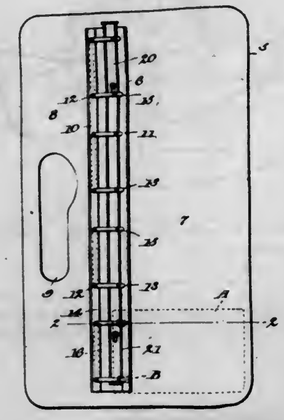
3. Apparatus for ascertaining the time of relaxation of a substance, comprising a piece of the substance to be annealed, means whereby stress may be temporarily applied to the piece and whereby the spring back of the piece may be measured.

1,457,884. SUSPENSION OF AUTOMOBILES AND OTHER VEHICLES. GEORGES HENRI ERNEST DE RAM, Paris, France. Filed Aug. 16, 1921. Serial No. 492,755. 7 Claims. (Cl. 267—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



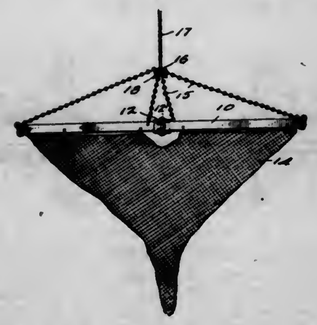
1. In a vehicle suspension, the combination with a chassis and a wheeled axle, of a couple connecting the two comprising said axle and connected extension members in quadrilateral formation diagonally divided and with the two parts mutually articulated coincidentally with the diagonal division therebetween, and means for connecting the chassis to the couple on opposite sides of the diagonal division thereof.

1,457,885. CARD HOLDER. WALTER F. DINSMORE, East Orange, N. J., assignor to R. L. Polk & Company, Inc., New York, N. Y., a Corporation of New York. Filed June 23, 1922. Serial No. 570,297. 4 Claims. (Cl. 129—1.)



3. A device of the character described, comprising a substantially rectangular board provided near one of its longitudinal edges with a hand hold, and a plurality of card-holding units detachably connected with said board between the sides thereof.

1,457,886. FISHING NET. JAMES K. DUKAS, Edwardsville, Pa. Filed Aug. 10, 1920. Serial No. 402,526. 1 Claim. (Cl. 43—12.)



A collapsible net frame comprising two pair of sections, the sections in each pair being pivoted to each other at adjacent ends, guard means for said pivot points, and U-shaped members to which are pivoted the other ends of the sections so that they may swing in a plane at right angles to the first plane.

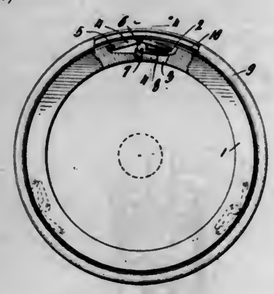
1,457,887. BUTT HOOK. JESSIE F. GRAHAM, Standard City, Calif. Filed July 19, 1922. Serial No. 575,997. 1 Claim. (Cl. 24—242.)

In combination, a hook, an intermediate member provided with a notch, means for pivotally mounting the hook upon the intermediate member, a trunnion extending from the intermediate member and having a flattened head, a sleeve swivelly mounted on the trunnion and



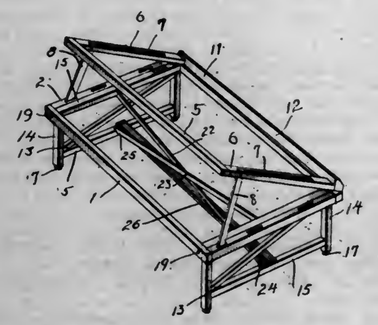
provided with diametrically opposed trunnions, and a clevis terminating in eyes receivable on the last mentioned trunnions.

1,457,888. DEMOUNTABLE RIM FOR VEHICLE WHEELS. LINDALL G. HACKWORTH, Ruble, Mo. Filed Dec. 31, 1921. Serial No. 526,173. 2 Claims. (Cl. 301—29.)



1. In combination, a wheel felly provided with a plurality of recesses in its outer periphery, a demountable rim provided with a groove on its inner periphery, a pair of arms pivoted in each recess and means for forcing the free ends of the arms into the groove of the demountable rim thereby locking the same in engagement with the felly.

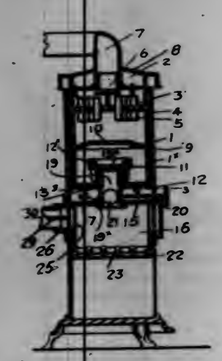
1,457,889. DRAWING STAND. HENRY C. HINRICHS, New Orleans, La. Filed Mar. 24, 1920. Serial No. 368,362. 1 Claim. (Cl. 45—109.)



A portable and collapsible stand for drawing boards comprising a main frame including longitudinally ex-

tending front and rear bars and transverse end bars all disposed in the same plane, the transverse end bars having spaced notches in the upper face thereof, end leg frames for the main frame, each including a transverse cross bar having trunnions formed on the terminals thereof and corner standards, the longitudinal bars of the main frame having bearing openings therein adapted to receive the trunnions of the side bars of the leg frames, the leg frames being adapted to fold within the main frame and lie flush with the upper and lower surfaces thereof, removable cross braces adapted to extend from one leg frame to the other for holding the leg frames in a set-up position, and a drawing board frame of substantially the same size as the main frame including longitudinal front and rear bars and slotted transverse end bars, means pivotally connecting the front bar of the drawing board frame with the front bar of the main frame, and pivoted struts carried by the end bars of the drawing frame and adapted to be disposed within the slots thereof and to lie flush with the upper and lower surfaces of the drawing frame, when the frame is in its collapsed position, the free terminals of the struts being adapted to fit in any one of the notches of the main frame when the drawing board is in its set up adjusted position.

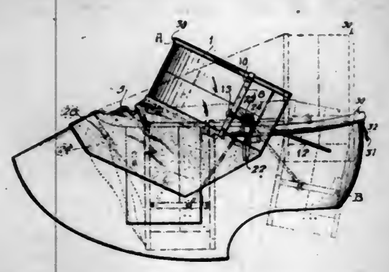
1,457,890. WATER HEATER. FREDERICK WILLIAM MAGEE, London, Ontario, Canada, assignor of one-half to Thomas William Baker, London, Ontario, Canada. Filed Nov. 25, 1922. Serial No. 603,363. 2 Claims. (Cl. 126—359.)



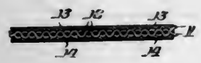
1. In a water heater, a chamber having a chimney outlet at its upper end and through which a multiplicity of streams of water is adapted to freely fall, a port at the lower end of the chamber, means for preventing the falling water passing through such port, a source of heat located beneath the chamber and adapted to use smoke emitting fuel, the products of combustion from which pass upward through said port to the aforesaid chimney outlet, means for preventing such products when smoke laden from passing upward, and a separate discharge for such smoke laden products extraneous to the aforesaid chamber.

1,457,891. SHIELD FOR SIDE CARS. GUSTAV W. BERGER and CHRISTIAN JEDELE, Newark, N. J. Filed May 18, 1922. Serial No. 561,921. 13 Claims. (Cl. 296—84.)

1. A shield having a body portion adapted to extend transversely of a vehicle and free to tilt upon a line intermediate its opposite edges, and supporting means tiltingly connected to said body portion at points distant from its side and end edges and adapted to be connected to the vehicle sides, whereby the ends of the body portion may overlap the sides of the vehicle whichever way said body portion is tilted.

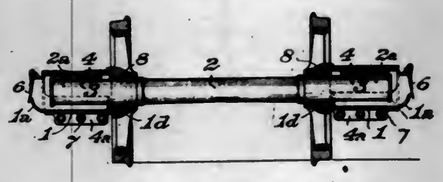


1,457,892. TIRE FABRIC. BERT R. BLACKWELDER, Laporte, Ind. Filed Oct. 14, 1921. Serial No. 507,713. 2 Claims. (Cl. 91—68.)



1. A tire fabric comprising a rubber sheet having embedded therein a reenforcing woven fabric, the warp of the reenforcing fabric including fabric strands only and the woof including wire strands only, the interstices of the reenforcing fabric being filled by and the wire strands being coated with portions of the rubber sheet material.

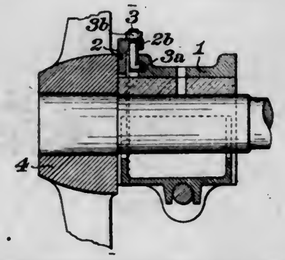
1,457,893. TRUCK-BOX CELLAR. JAMES G. BLUNT, Schenectady, N. Y. Filed Oct. 1, 1921. Serial No. 504,591. 1 Claim. (Cl. 64—24.)



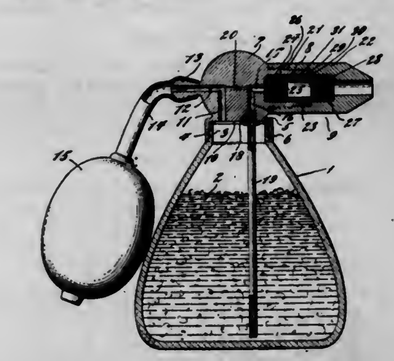
In combination with a journal box for locomotive trucks located outside the wheel, and entirely open at its outer end, of a truck box cellar consisting of an open topped casing, the rear end wall of which is recessed to fit the axle and carries a flange abutting the wheel hub, internal flanges at the bottom of said box on which the cellar is supported, a front plate integral with the collar casing closing the open outer end of the box and having a door through which packing material may be inserted, bolts passed through lugs on said front plate to secure the cellar to the box, and transverse bolts passed through depending flanges on the side walls of the box to clamp the cellar in place.

1,457,894. HUB LINER FOR RAILROAD VEHICLES. JAMES G. BLUNT, Schenectady, N. Y. Filed June 8, 1922. Serial No. 566,742. 4 Claims. (Cl. 64—25.)

1. The combination, with a journal box and a wheel and axle of a railroad vehicle, of a liner, interposed between the journal box and the wheel hub; means for connecting said liner adjustably to the journal box; and means for effecting vertical adjustment of said liner, relatively to the journal box.

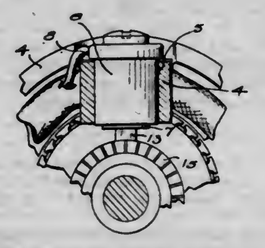


1,457,895. SANITARY LATHER-MAKING DEVICE. JOSEPH CAMPANELLA, New York, N. Y. Filed May 26, 1922. Serial No. 563,841. 7 Claims. (Cl. 299—96.)



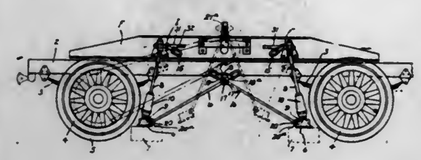
1. In a lather-making device, a nozzle, and means for forcing a lather-forming liquid through said nozzle, said nozzle comprising a plurality of lather-forming foraminous members arranged face to face and in contacting relation through which the lather-forming liquid is forced in series.

1,457,896. MOTOR BRUSH HOLDER. JOEL R. COOK, Cleveland, Ohio, assignor to Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 12, 1921. Serial No. 491,650. 10 Claims. (Cl. 171—324.)



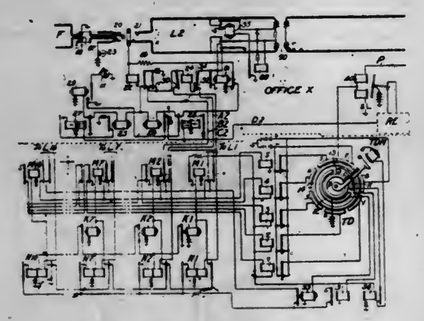
2. In a motor brush holder having an annular shoulder formed therein, the combination of a brush having a rectangular cross section slidably mounted within the brush holder, a metallic cup member adapted to be maintained in positive contact on said shoulder by an insulating plug removably secured to one end of the holder, and an electrically conductive resilient member interposed between the inner surface of the cup member and the inner end of the brush.

1,457,897. VEHICLE OUTRIGGER. EUGENE G. DEUCHER, Cleveland, Ohio, assignor to The Universal Crane Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1921. Serial No. 451,599. 10 Claims. (Cl. 212—145.)



1. In an outrigger mechanism for springed vehicles, the combination with a hoisting mechanism bed, a vehicle frame, said bed being normally carried on the said frame, wheels for the said vehicle, resilient spring means connecting the said frame and the said wheels, a plurality of brackets on the bed, a plurality of pier legs adapted to be secured each at one end to one of the said brackets, shoes for the lower ends of the pier legs, and tie means connecting each bracket to shoes of next adjacent pier legs.

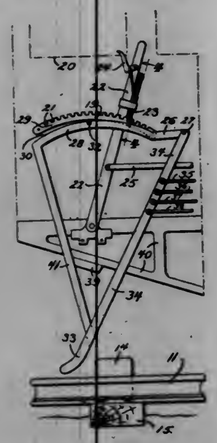
1,457,898. TELEPHONE SYSTEM. WILLIAM L. DODGE, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 312,069. 21 Claims. (Cl. 179—50.)



13. In a telephone system, in combination, a plurality of transmission circuits and a signaling path common thereto extending between two stations, means at one station for transmitting over the signaling path code signals individual to the different transmission circuits, a set of relays at the one station for each transmission line comprising a first relay for determining the code of the signal to be transmitted, a second relay for determining the order in which the code determining relays are energized, and a third relay controlling the energization of the first and second relays of this set, and means controlled by the third relay for preventing the simultaneous operation of two order determining relays.

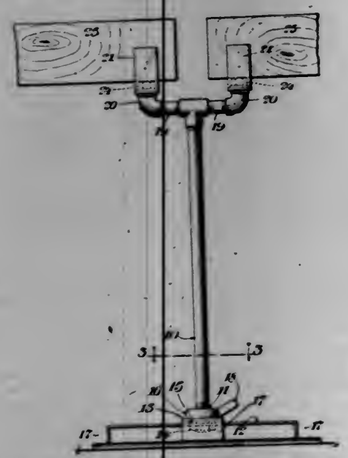
18. The method wherein an operator's signal is operated when a subscriber recalls which comprises delaying the operation of said recall signal until a predetermined time interval after the first operation of the switchhook for recall purposes.

1,457,899. TRAIN-STOPPING APPARATUS. LOUIS DUNN, St. Paul, Minn., assignor of two-thirds to Edmund L. Dunn, Millbourne, Pa., and one-third to A. V. Fabian, St. Paul, Minn. Filed Dec. 6, 1921. Serial No. 520,266. 10 Claims. (Cl. 246—186.)



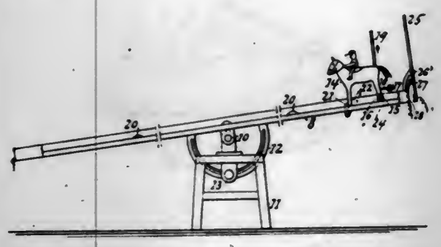
4. The combination with a locomotive having a reverse quadrant provided with notches, a reverse lever, and a latch carried by said reverse lever for holding engagement within said notches when the reverse lever is moved out of neutral position, of stopping apparatus including a portion movable to move said latch out of said holding position and allow the reverse lever to return to its neutral position; substantially as described.

1,457,900. STANCHION FOR SUPPORTING BARRIER RAILS. JOHN JAMES FAIRBAIRN, Roosevelt, N. Y. Filed Apr. 14, 1922. Serial No. 552,733. 5 Claims. (Cl. 256—59.)



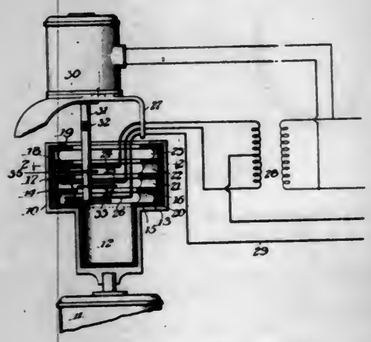
1. In a stanchion for the purpose described, a standard, and a supporting base thereon, said base comprising two bar sections superposed one on the other, the lower section being rigidly fixed intermediate its ends to the foot of the standard and the upper section being rotatably mounted intermediate its ends on the standard, and locking and releasing means for the rotatable section.

1,457,901. RACE GAME. ANDREW B. FOANS, New York, N. Y. Filed Apr. 25, 1921. Serial No. 464,134. 5 Claims. (Cl. 46—56.)



1. In a game the combination with an inclined platform, of a rockable carriage arranged on the platform, means carried by the carriage actuated by the impact of an object for rocking the carriage to propel it forward, and means for interrupting the movement of the carriage.

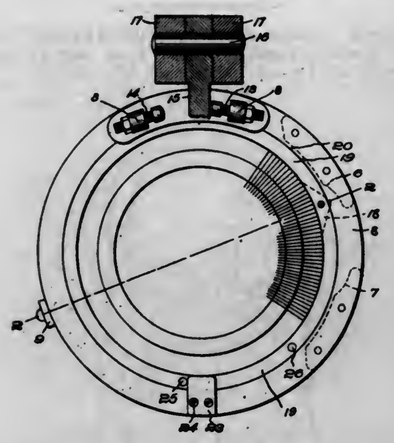
1,457,902. CURRENT RECTIFIER. CARL J. GARDEEN, St. Paul, Minn. Filed May 9, 1921. Serial No. 468,131. 12 Claims. (Cl. 175—364.)



3. In a current rectifier, the combination of a fluid container in which a conducting fluid is confined and a portion into which the fluid collects during rectification, contact making elements supported in said portion, means acting through the agency of centrifugal force on said fluid to cause said fluid to move into said portion and into engagement with said contact making elements, and means for driving certain of said contacts in synchronism with an alternating current supply.

1,457,903. WEB HOLDER CAM FOR KNITTING MACHINES. AUGUSTIN GAGNÉ, Central Falls, R. I. Filed May 7, 1920. Serial No. 379,487. 14 Claims. (Cl. 66—26.)

1. In circular knitting mechanism employing a circular series of sinkers, web holders or like instrumentalities and a bed ring receiving the same, a cap ring-like part for said instrumentalities adapted to overlie the latter and said bed ring, said cap ring-like part including relatively circumferentially movable inner and outer curved members, together providing a groove for the reception of the entire series of said instrumentalities, and advancing and



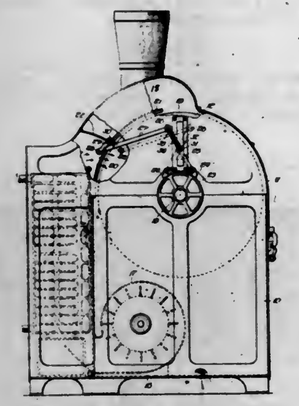
retracting cams carried by said curved members respectively to act upon said entire series of instrumentalities to advance and retract the same.

1,457,904. SHOULDER STRAP. HARRY GERSTEIN, Arverne, and FRANK GERSTEIN, New York, N. Y. Filed Nov. 22, 1921. Serial No. 516,918. 1 Claim. (Cl. 2—140.)



A shoulder strap comprising an inelastic flexible intermediate section, elastic tabs connected to said intermediate section at opposite ends thereof, a covering enclosing said intermediate section and having its longitudinal edges overlapped approximately at the longitudinal centre of the strap and a line of stitching passed through said overlapped edges, said intermediate section and said tabs thereby attaching said overlapping edges to each other, to said intermediate section and to said tabs, that portion of said covering enclosing said tabs being normally in a shirred condition to permit the elastic tabs to yield with respect to said intermediate section and relieve that portion of said covering which encloses said intermediate section of any undue strain when said tabs are extended under tension.

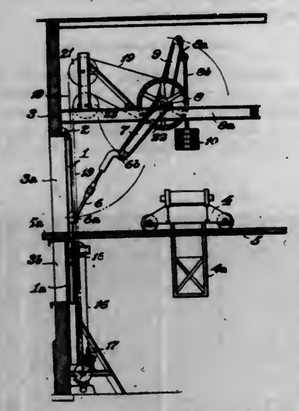
1,457,905. DRYROOM TUMBLER. WILLIAM R. HAGER, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,730. 6 Claims. (Cl. 34—5.)



2. In a dryroom tumbler, the combination of a reversibly moving container for clothes to be dried, means directing a drying medium to said container, and means automatically changing the direction of said drying medium with changes in the direction of movement of the container.

1,457,906. [WITHDRAWN.]

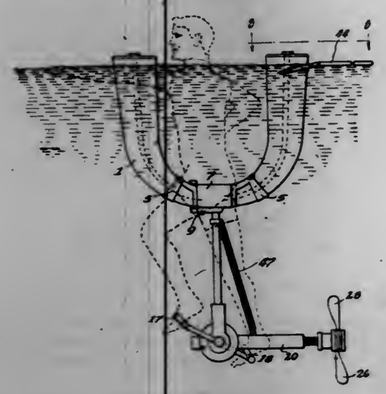
1,457,907. CRANE-DOOR-OPERATING MECHANISM. FREDERICK WM. HEISLER, Schenectady, N. Y. Filed Oct. 8, 1919. Serial No. 329,303. 3 Claims. (Cl. 268—9.)



1. The combination of a building having a crane doorway formed in the upper portion of its vertical walls, craneways adapted to support a crane passing through the doorway, a crane door hinged at its upper section to the vertical wall and adapted to close said doorway, a horizontal operating shaft disposed parallel to said vertical wall and supported by the building, means for rotating the shaft about its axis, pivoted links coupling the shaft to the lower section of the crane door and adapted to raise and lower said door and lock it in its upper open

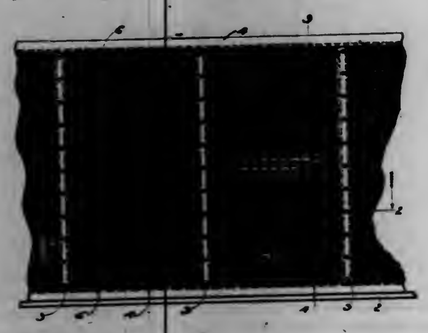
position to permit safe passage of the crane and to form an effective lock and wind bracing for the lower section of the crane door when in its closed position, a lower doorway adapted to permit the passage of a crane cage, an auxiliary door controlling the lower doorway, and means coupling said doors in a manner adapted to open or close them simultaneously.

1,457,908. SWIMMING DEVICE. ALEXANDER B. KUPSCHE, Chicago, Ill. Filed Sept. 16, 1921. Serial No. 501,165. 5 Claims. (Cl. 9—18.)



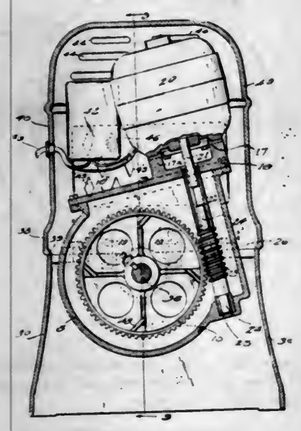
1. A device of the class described embodying therein, a buoyant element, a propeller mechanism, a support extending between the propeller mechanism and the buoyant element, means swingably joining the propeller mechanism and said support, means for locking said propeller mechanism in different angular positions, said means including a shaft, an element slidable thereon, and mutually interlocking pins and recesses on the propeller mechanism and said slidable element.

1,457,909. WALL COVERING. MARSHALL B. LLOYD, Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed June 5, 1920. Serial No. 386,830. 11 Claims. (Cl. 20—15.)



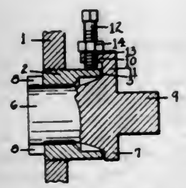
1. The herein described improvements in wall covering constructions, embodying therein a wall; a finishing covering therefor composed of a plurality of spaced stakes which in workable lengths have sufficient rigidity to be self-supporting and to resist forces tending to bend abruptly, and filler strands woven over and under said stakes in side by side contacting relation and being carried thereby; and means yieldably holding said covering against said wall.

1,457,910. ELECTRIC POWER MECHANISM. PAUL F. LOICHOT, Louisville, Ohio. Filed May 11, 1922. Serial No. 560,080. 9 Claims. (Cl. 74—7.)



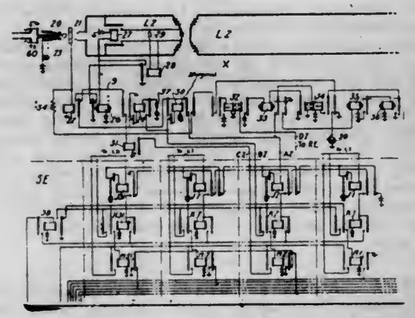
1. In a power device, an outer housing comprising a base member and a top member, an inner housing having a power shaft horizontally suspended in the housing, a motor supported on the housing and connected to said shaft for driving the same, the housing having integrally formed hubs extending therefrom through the side walls of the outer housing, and bearing members positioned within the hub portions for supporting said shaft, said hubs being adapted to receive engaging sleeves of devices driven by said power unit.

1,457,911. BOILER PLUG. PETER E. MCINTOSH and RUSSELL O'CONNELL, Kalamazoo, Mich. Filed Sept. 23, 1921. Serial No. 502,823. 6 Claims. (Cl. 220—24.)



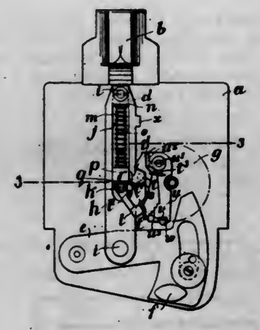
1. In a structure of the class described, the combination of a screw bushing with a bearing seat at its outer end and an inner end divided into opposed symmetrical spiral surfaces with longitudinal slots leading thereto, a plug with a flanged bearing to fit the bearing at the outer end of the bushing and with longitudinally projecting opposed lugs adapted to pass through the longitudinal slots and engage the said spiral surfaces, a square projection on the plug for turning the same, a transversely projecting plate carrying a curved segment with a series of screw holes, a set screw for insertion through the said segment to lock the plug in closed position, and a lock nut for the set screw, as specified.

1,457,912. TELEPHONE SYSTEM. HUGH D. MACL'HERSON, Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,611. 6 Claims. (Cl. 179—50.)



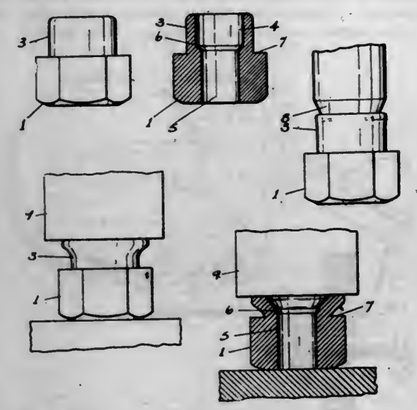
1. In a telephone system, the combination with a plurality of trunk lines and a signaling path common there to, of a train of relays common thereto for transmitting over the signaling path code signals individual to the different trunk lines, a set of normally inert relays individual to each line for determining the code of signals for its associated line, and means controlled by a change in condition of any one of the trunk lines for operating its set of relays.

1,457,913. REGISTERING TICKET PUNCH. FRANK MATHEWS, Croydon, and STANLEY DRUMMOND BLACK, London, England. Filed Oct. 14, 1921. Serial No. 507,695. 4 Claims. (Cl. 164—119.)



1. In a registering ticket punch of the kind hereinbefore referred to, the combination with the operating lever and the head slide carrying the punch proper of a slotted link pivoted to the said lever and slide, a block or abutment within the slot and held against movement in one direction longitudinally of the said slot and a spring arranged between the said abutment and one end of the slot to return the operating lever and punch after punching a ticket.

1,457,914. PROCESS OF MAKING FLANGED NUTS. GEORGE MELLING, Lansing, Mich. Filed Feb. 1, 1921. Serial No. 441,541. 1 Claim. (Cl. 10—86.)

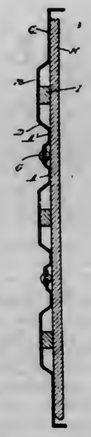


The method of making flanged nuts consisting of forming a body blank with a tubular extension at one end of a diameter less than the body, and expanding and upsetting the extension into a flange lying against the end of the body.

1,457,915. METHOD OF MAKING PAPER PULP. BERTRAND S. SUMMERS, Port Huron, Mich. Filed May 26, 1920. Serial No. 384,361. 2 Claims. (Cl. 92—11.)

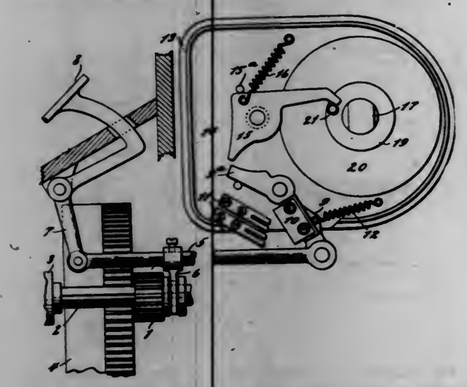
2. The herein described process of reducing vegetable straw, which consists in first subjecting the said straw to a reducing agent with an acid re-action and subsequently subjecting the said straw to an oxidizing reagent in an alkaline bath substantially as described.

1,457,916. CAR END. WILLIAM D. THOMPSON, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 20, 1922. Serial No. 602,091. 3 Claims. (Cl. 105—410.)



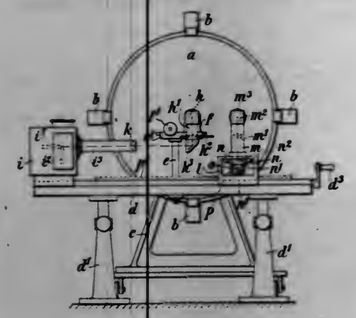
1. In a car body construction, a series of pressed sheet metal paneled plates having overlapping adjacent edge portions riveted to each other, said overlapping portions being laterally offset to provide clearance for the rivet heads.

1,457,917. LOCKOUT FOR AUTOMATIC STARTERS. RICHARD VARLEY, Englewood, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Original application filed Sept. 18, 1919, Serial No. 324,450. Divided and this application filed Dec. 26, 1919. Serial No. 347,411. 7 Claims. (Cl. 74—7.)



1. For an internal combustion engine including an automatic starter, an operating lever for the starter, a lock-out for the lever movable into and out of the path of the lever, a shaft connected to be rotated by the engine, and means mechanically connecting the shaft to the lock-out and operative by any rotation thereof to shift the lock-out to locking position.

1,457,918. ARRANGEMENT FOR THE EXAMINATION OF COLLECTIVE OPTICAL SYSTEMS. WALTER VILLIGER and ROBERT MECHAU, Jena, Germany, assignors to The Firm of Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,091. 4 Claims. (Cl. 88—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



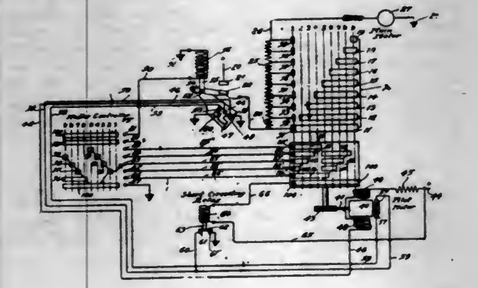
1. In an arrangement for the examination of optical collective systems adapted to deflect rays impinging on it a point-shaped source of light disposed in the focal plane of the system to be examined, a rectilinear guide approximately perpendicular to the optical axis of the said system, a carriage displaceable along the said guide, a device for selecting a pencil of rays out of the light deflected by the said system and uniting the rays of this pencil to form an image-point, which device is supported by said carriage, a sensitized plate disposed in the focus of the said device, and means for so coupling the said plate with the said carriage that any displacement of the latter results in a movement of the said plate in its plane.

1,457,919. ALARM CLOCK. ROBERT S. WATT, Brooklyn, N. Y. Filed Dec. 1, 1922. Serial No. 604,299. 1 Claim. (Cl. 58—16.)



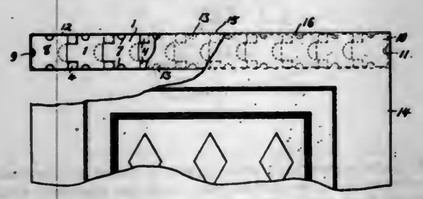
In alarm clock mechanism of the character designated, the combination with the alarm escapement wheel of a spring pawl formed with a detent shoulder for engagement with the teeth of said alarm escapement wheel and also with a detent tooth of greater projection than said detent shoulder, an alarm setting spindle having a feeler finger rigidly attached thereto, a cam wheel slidably and rotatably mounted on said alarm setting spindle and formed with a hub contacting with said spring pawl, and an annular cam on said wheel contacting with said feeler finger on the alarm setting spindle and formed with minor and a major cam depressions, for the purpose, and substantially in the manner set forth.

1,457,920. ELECTRIC-MOTOR CONTROL SYSTEM. THORSTEN ZWEIGBERGK, London, England. Filed Aug. 20, 1921. Serial No. 493,855. 17 Claims. (Cl. 172—179.)



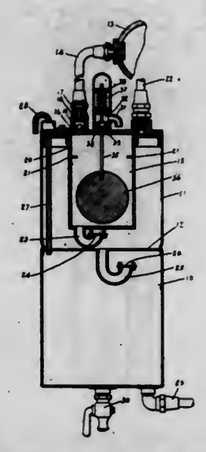
3. The combination of a controller, an auxiliary motor for actuating the controller, means for short circuiting said auxiliary motor to stop it, said means comprising a successively operated relay controlled by a plurality of contacts moved with the controller.

1,457,921. RUG REENFORCEMENT. OSCAR BRUNKA, Fort Wayne, Ind. Filed Apr. 14, 1922. Serial No. 552,652. 5 Claims. (Cl. 154—49.)



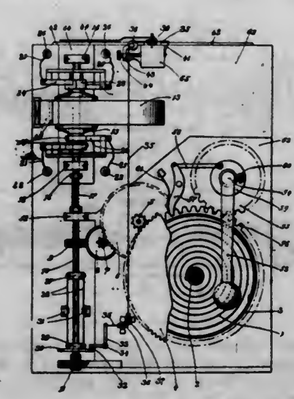
1. A reenforcement for rugs and the like, comprising a metallic strip made up of a series of sections, each section having a projecting tongue at one end and a pair of extensions at the opposite end thereof, there being a pocket on each side of the tongue for the reception of the extensions of the adjacent section and a pocket for the reception of the tongue of the section adjacent its opposite end, there being also a recess in each side of each section; and a fabric casing enveloping the strip and forming a web over each of said recesses.

1,457,922. VACUUM TANK. HENRY B. COATS, Veedersburg, Ind. Filed Apr. 8, 1922. Serial No. 550,866. 6 Claims. (Cl. 156—36.)



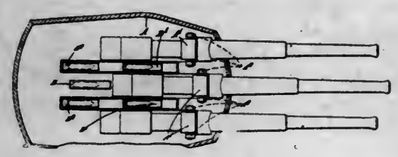
1. A tank for containing liquid having a passage therein, a valve for controlling said passage, a weighted controlling member heavier than the liquid contained in said tank to which said valve is connected, and means connected with said weight and valve for actuating the same and controlling said passage upon a portion of said member being submerged in the liquid contained by said tank.

1,457,923. METHOD AND APPARATUS FOR MEASURING ELECTRIC RESISTANCES AND THE LIKE. MAURICE COPPÉE, Mont-Sur-Marchienne, Belgium. Filed Nov. 12, 1921. Serial No. 514,643. 10 Claims. (Cl. 175—183.)



1. The method of measuring electric resistances and the like, consisting in connecting the element to be measured to the armature of an electric generator of constant field, subjecting said armature to a substantially constant couple and measuring the speed of rotation of said armature.

1,457,924. TURRET MOUNTING FOR HEAVY GUNS. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Filed Sept. 4, 1920. Serial No. 408,321. 5 Claims. (Cl. 89—37.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



1. The combination with a gun turret, of three guns the middle one of which is arranged with its trunnion pins in front of the two outer guns and in the same horizontal plane as those of the two outer guns.

1,457,925. VANITY CASE. LAURENCE P. DICKEY, Mountain Lakes, N. J. Filed Apr. 22, 1922. Serial No. 556,046. 11 Claims. (Cl. 132—83.)



11. In a vanity box containing a mirror and means to carry cosmetics, an opening through the outer wall of said box and an insert supported in the case and exposed through the opening.

1,457,926. CASTING LURE. MILTON S. DUNKELBERGER, Dayton, Ohio. Filed July 1, 1922. Serial No. 572,141. 3 Claims. (Cl. 43—48.)



3. In a casting lure, the combination with a body having a horizontal groove in its front end, of a wing-piece adapted to be inserted in said groove, a hook whose shank projects longitudinally through said body, and having an eyelet end extending a short distance in front of said body, a bent wire having its free ends pivotally secured in the middle portion of said body, and a triangular portion on the front end of said wire adapted to be hooked over the eyelet end of the hook in front of the wing-piece in said groove.

1,457,927. HYDRAULIC MOTOR. FREDERICK EDWARD EBEL, New York, N. Y. Filed Apr. 29, 1921. Serial No. 465,467. 2 Claims. (Cl. 170—89.)

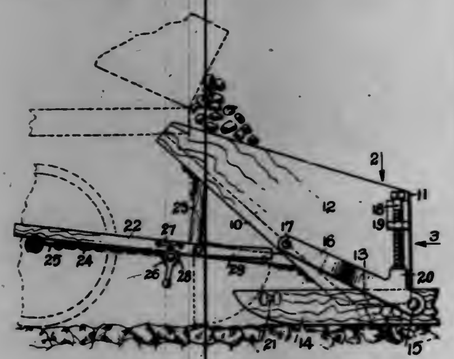
1. In a hydraulic motor, the combination with a source of water supply, of an inclined flume having side walls in upstanding relation to the bottom thereof, a driven member and an idler member, the diameter of the driven member exceeding that of the idler member, an endless carrier provided with friction rolls and with buckets or flights, said carrier being arranged for said friction rolls to travel upon said upstanding walls of the flume and

said carrier being supported for its bottom active lead to travel in the direction of flow of water within the flume, whereas the non-active lead of said carrier is



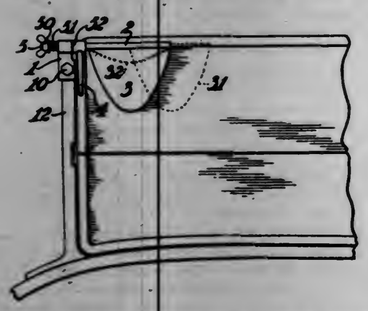
influenced partially by gravity in the movement of the non-active lead of said carrier towards the idler member, and rails upon which rest the rollers on the non-active lead of said endless carrier.

1,457,928. SPREADER FOR ROAD MATERIAL. JOHN A. JOHNSTON, Springfield, Mass. Filed Mar. 1, 1921. Serial No. 448,753. 12 Claims. (Cl. 94—44.)



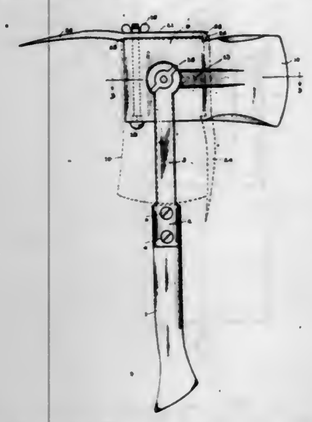
10. In a road metal distributer including a hopper-shaped body entirely open at its bottom, road engaging supporting members operatively engaged with the body, the body and the road engaging supporting members being mounted for relative adjustment vertically.

1,457,929. GLARE SHIELD. CHARLES H. LIPPY, Snohomish County, Wash. Filed Jan. 25, 1922. Serial No. 531,652. 2 Claims. (Cl. 296—97.)



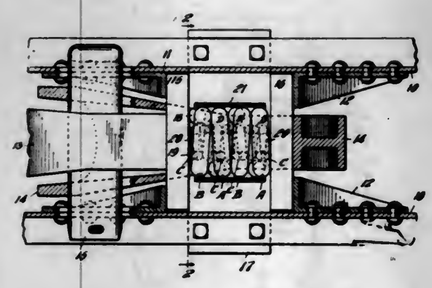
1. A glare shield comprising a tubular pivot bar slotted on one side and means to secure it to extend horizontally along the face of the windshield, a semi-transparent plate having a rolled edge adapted to slide into said tube and project through said slot, said rolled edge resiliently engaging the inner surface of said tube to yieldingly hold it against accidental sliding therein and to permit lengthwise adjustment, and means for holding said pivot bar and plate in adjusted angular position.

1,457,930. FOLDING HATCHET. CHARLES W. NELEMS, Birmingham, Ala., assignor of one-half to John W. Riddle, East Lake, Ala. Filed May 1, 1922. Serial No. 557,711. 7 Claims. (Cl. 145—2.)



1. In a folding hatchet, a handle having spaced blade supporting arms, a hatchet blade pivotally mounted between said arms, a clamp screw passing through a hole in the blade and engaging both arms to clamp the blade in position between them, and grooves radiating lengthwise and transversely of the blade from said hole and adapted to receive said arms.

1,457,931. HIGH-CAPACITY SPRING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 31, 1921. Serial No. 441,128. 6 Claims. (Cl. 213—44.)

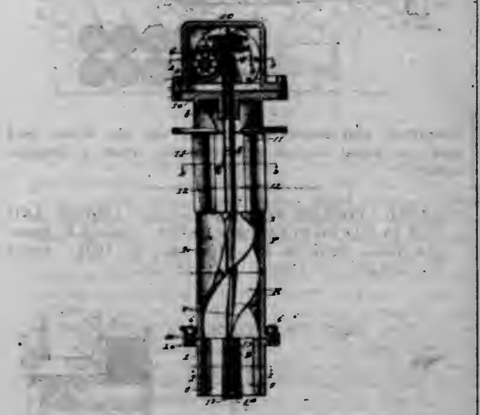


1. In a high capacity shock absorbing spring consisting of a plurality of like coil units arranged in abutting relation, said units being both right and left, each coil extending through an arc of 360°.

1,457,932. WATER METER. FRANK A. OLSEN, San Gabriel, Calif. Filed Nov. 5, 1919. Serial No. 337,223. 1 Claim. (Cl. 73—37.)

A water meter having an elongated cylindrical body having a web for closing the upper end of said body

and a flange extending outwardly from said web, an outlet portion below said flange having a plurality of elongated peripheral openings formed in the wall of the body, a nipple on the lower end of said body and forming a support therefor, a bearing being centrally formed in said nipple and a bearing also being formed in the web at the upper end of said body, a shaft held in said bear-



ings, a helically vaned rotor carried on said shaft and enclosed by the body, a meter housing attached to the flange on the upper end of said body and arranged to enclose a meter for operable connection with said shaft, said nipple serving as an inlet for the body, and the peripheral openings in said body serving as outlets therefor.

1,457,933. MECHANISM FOR TESTING PISTON RINGS. WALTER C. PETERSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 8, 1920. Serial No. 379,773. 2 Claims. (Cl. 73—51.)



1. A piston ring testing machine comprising a supporting member, a plurality of pins slidably mounted therein and extending radially from the center of said member, levers actuating said pins, means for gradually moving said levers, and pressure indicating means disposed between said last named means and said levers.

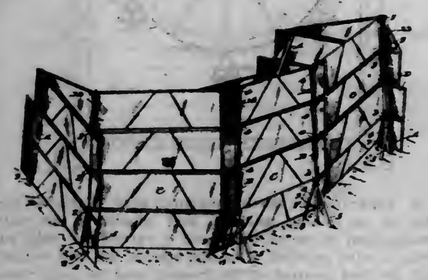
1,457,934. METHOD OF MAKING PRECIPITATED BARIUM SULPHATE AND SODIUM SULPHYDRATE. JAMES B. PIERCE, Jr., Charleston, W. Va. Filed Oct. 8, 1921. Serial No. 506,336. 2 Claims. (Cl. 23—13.)

2. The method of making precipitated barium sulphate and sodium sulphydrate, which consists in effecting the double decomposition of barium sulphide and sodium sulphate, effecting the substantial neutralization of acid sodium sulphate with at least a portion of the resultant sodium sulphide and absorbing the resultant hydrogen sulphide in another portion of sodium sulphide obtained from the first reaction aforesaid.

1,457,935. METHOD OF MAKING PRECIPITATED BARIUM SULPHATE. JAMES B. PIERCE, Jr., Charleston, W. Va. Filed Oct. 8, 1921. Serial No. 506,337. 5 Claims. (Cl. 23—13.)

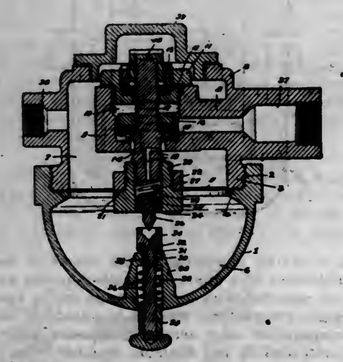
3. In the method of making precipitated barium sulphate, the steps which consist in effecting double decomposition between solutions of barium sulphide and sodium sulphate while maintaining the temperature of the mixture during the decomposition reaction between 50° C. and 100° C.

1,457,936. FRAME FOR STACKING GRAIN. SAMUEL W. PRIEBE, Wyaconda, Mo. Filed Oct. 8, 1921. Serial No. 506,455. 4 Claims. (Cl. 130—20.)



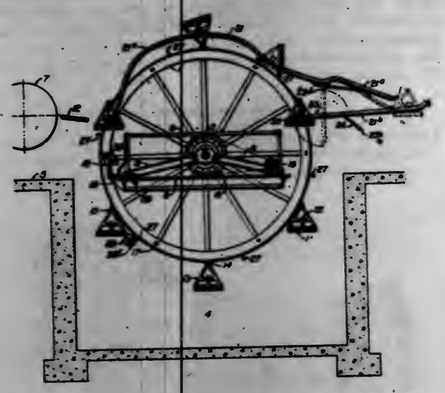
1. A frame for stacking grain, including a plurality of portable posts, rectangular frames engaging said posts and arranged in rows, the ends of said frames overlapping at each post, and means on the posts for removably supporting and engaging the overlapping ends of the frames.

1,457,937. PRESSURE-REGULATING VALVE. JOY S. REYNOLDS, San Francisco, Calif., assignor to Reynolds Torch and Regulator Co., Seattle, Wash. Filed Oct. 24, 1921. Serial No. 509,818. 2 Claims. (Cl. 50—11.)



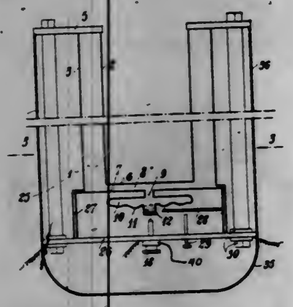
1. A pressure regulating valve comprising a housing, a flexible diaphragm dividing said housing into a service chamber and regulating chamber, means actuated by the movement of said diaphragm for controlling the inlet of fluid under pressure to said service chamber, a valve provided in said diaphragm, another valve provided in the wall of said regulating chamber, and means on the exterior of said housing for moving said last named valve into engagement with said valve in said diaphragm to open one or both of said valves.

1,457,938. CARRIER APPARATUS. CHAMPLAIN L. RILEY, North Plainfield, N. J., assignor to Clark, Macmullen & Riley, Inc., a Corporation of New York. Filed Mar. 3, 1922. Serial No. 540,811. 30 Claims. (Cl. 104—91.)



5. Apparatus for moving prepared work to the feed position of an ironing machine, said apparatus comprising longitudinal work supports and a carrier for said supports moving between a loading station for said supports and the feed position of the ironing machine, said carrier moving said supports laterally in a path that clears the feed operators at the ironing machine.

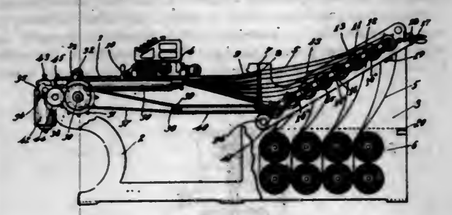
1,457,939. THERMOSTATIC CIRCUIT CLOSER. JOSÉ CORDEIRO FERREIRA ROQUETTE, Paris, France, assignor to Manoel De Ortigão Burnay, Paris, France. Filed June 17, 1921. Serial No. 478,336. 2 Claims. (Cl. 200—140.)



1. In an alarm apparatus of the character described, the combination of a dilatable chamber having an extensible wall provided with an air escape orifice opening to atmosphere, a regulating member mounted on the frame of the apparatus and arranged opposite said orifice, means controlled by the dilatable chamber when the latter expands to close an electric circuit connected to the alarm proper, and an air expansion chamber communicating with the dilatable chamber.

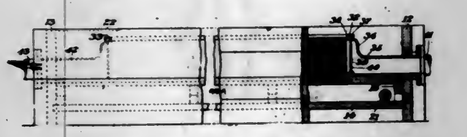
1,457,940. FLAT-BED MANIFOLDING MACHINE. JOHN Q. SHERMAN, Dayton, Ohio. Filed Apr. 19, 1921. Serial No. 462,677. 18 Claims. (Cl. 197—126.)

1. In a device of the character described, the combination with a flat platen, a pin wheel feed for drawing webs of paper over said platen, a storage element, pin wheel devices for withdrawing the webs of paper from said storage element, to supply them to the platen, said devices adapted to feed each web an equal distance at each



operation, and means for driving the pin wheel feed and pin wheel devices synchronously, from a common source.

1,457,941. COOLER FOR RECLAIMED LIQUOR AND GAS IN PAPER-PULP PROCESSES. GEORGE F. SHEVLIN, Glens Falls, N. Y. Filed Dec. 19, 1921. Serial No. 523,292. 3 Claims. (Cl. 92—11.)



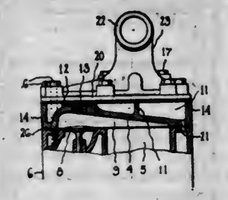
1. A cooler for reclaiming liquor and gases in paper pulp processes comprising a tank, a vessel having a plurality of tubes extending therethrough, an inlet pipe, and means between the inlet pipe and the tubes in the vessel for preventing the liquor and gases from coming into direct contact with the said tubes upon entering the said vessel.

1,457,942. PNEUMATIC TIRE. WALTER E. SHIVELY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 26, 1920. Serial No. 406,255. 9 Claims. (Cl. 152—13.)



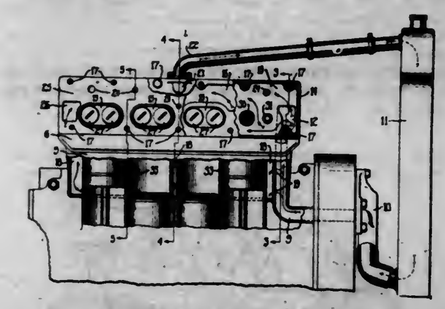
9. In a pneumatic tire casing including a fabricated carcass and a thread element, a plurality of superposed substantially crescent shaped cushion elements successively decreasing in resiliency and disposed between the carcass and the tread element, and side walls for the carcass comprising respectively superposed layers the outer edge portions of the side wall layers and the edge portions of the cushion elements being arranged in overlapping relation.

1,457,943. HYDROCARBON MOTOR. CHARLES REUBEN SHORT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,323. 5 Claims. (Cl. 123—173.)



1. In a detachable head for internal combustion engine cylinders, a plate adapted to close the open end of an engine cylinder and having holes arranged along its periphery adapted to receive bolts for securing the head in place, a conduit through which water may flow from the water jacket of the cylinder into the interior of the head, a cover separate from said plate and resting thereupon and having holes arranged along its periphery and so located as to register with the holes at the periphery of said plate, and which cover co-operates with said plate to provide a water receiving chamber between the two, means independent of the bolts whereby the head is secured in place upon the engine cylinder for securing said plate and cover together, and a water outlet conduit through which water may flow from the interior of said head; the construction and arrangement of the parts being such that the act of tightening the bolts which secure the cover and plate to the cylinder forces the peripheries of said elements toward one another and secures a water tight joint between said parts at the peripheries thereof.

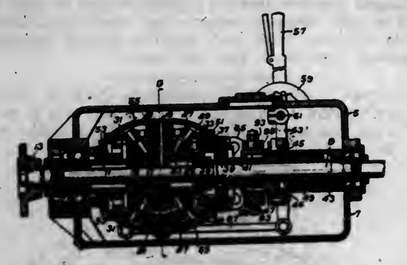
1,457,944. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 2, 1920. Serial No. 355,576. 19 Claims. (Cl. 123—173.)



1. In an internal combustion engine, a cylinder block comprising a plurality of cylinders having a common jacket space or passage through which a cooling liquid may flow; a head for closing the upper ends of said cylinders and having also a jacket space or passage through which a cooling liquid may flow; and a single cooling liquid supply passage formed integrally with said block and communicating with both of said jacket passages or spaces and through which a cooling liquid may be simultaneously supplied to both of said jackets.

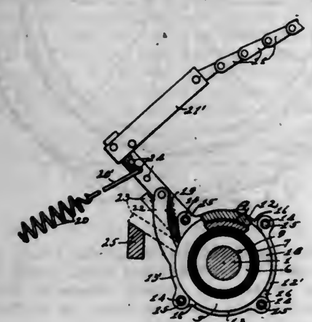
1,457,945. TRANSMISSION GEAR. SYDNEY A. SMITH, Boston, Mass. Filed Apr. 13, 1921. Serial No. 460,964. 12 Claims. (Cl. 74—34.)

1. A mechanism of the class described comprising a train of gears including as an intermediate element thereof a rotary gear carrier and means at will to fix the carrier against rotation comprising a gear on the



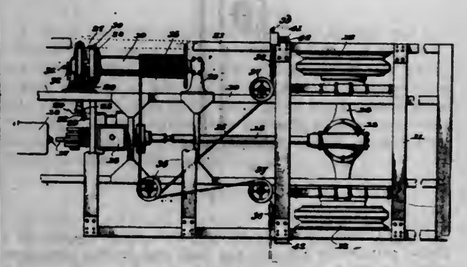
carrier, idle gears meshing therewith and non-rotatable clutch means engageable with said idle gears.

1,457,946. STARTER FOR INTERNAL-COMBUSTION ENGINES. EDWARD P. SOMMERS, Los Angeles, Calif. Filed June 21, 1920. Serial No. 393,449. 7 Claims. (Cl. 123—185.)



1. A starter for engines comprising a friction band having a plurality of hingedly connected segments, a rotatable member common to said segment, two adjacent sections thereof having spaced extensions, a common operating member therefor pivoted to the extension on one of said members and to the adjacent member at a point spaced therefrom, and means for engagement with said other extension, for expanding said members relative to said rotatable member, when a back-fire occurs in the operation of the engine.

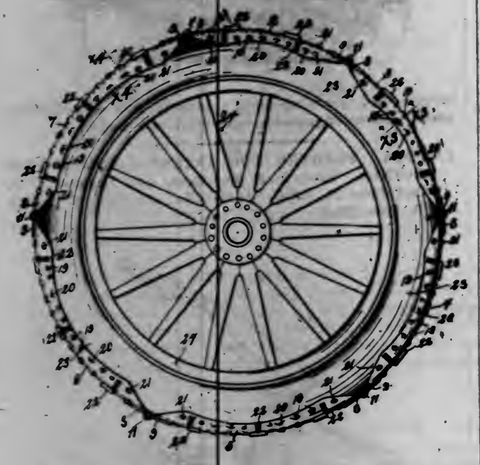
1,457,947. MOTOR VEHICLE. DUNCAN G. STANBROUGH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1919. Serial No. 345,521. 2 Claims. (Cl. 214—94.)



1. A loading device comprising, in combination, a motor propelled vehicle having a main frame, a motor carried

thereby and operatively connected to drive said vehicle, a platform frame mounted upon said main frame and overhanging the side thereof, a drum carried by said main frame and disposed beneath the overhanging part of said platform frame and operative driving connections between said drum and said motor.

1,457,948. FOLDING, NONSKID ARMOR EQUIPMENT FOR AUTOMOBILE TIRES. AUSTIN F. STOCKWELL, Los Angeles, Calif. Filed Feb. 12, 1923. Serial No. 618,543. 4 Claims. (Cl. 152—16.)



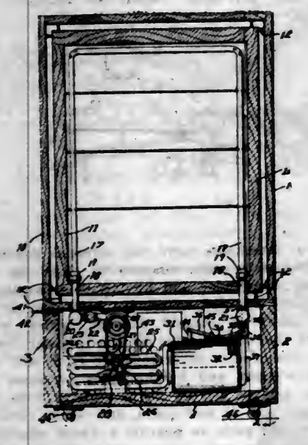
4. Armor for pneumatic tires comprising a band formed of concave links of resilient sheet metal hinged to encircle a tire, and being of different lengths to be folded together and having a removable hinge pin to allow the band to be removed and replaced.

1,457,949. VENTILATING WINDOW FOR PASSENGER CARS AND THE LIKE. HIRAM BRUCE TROUT, Mattoon, Ill. Filed Feb. 18, 1922. Serial No. 537,435. 12 Claims. (Cl. 20—36.)



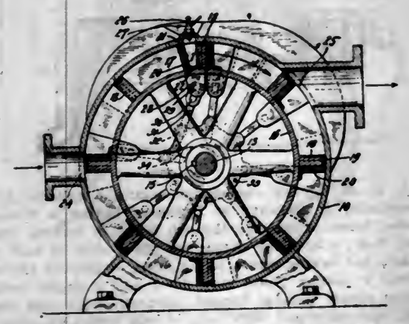
1. In a ventilator, the combination, with a sash, of a frame movable relative to the sash and having side openings adapted to be alternatively exposed by such relative movement, and means for locking the frame with one of the side openings exposed.

1,457,950. HOUSEHOLD REFRIGERATOR. AMEDEO L. UBERTO, Oakland, Calif. Filed Jan. 24, 1921. Serial No. 439,648. 1 Claim. (Cl. 62—4.)



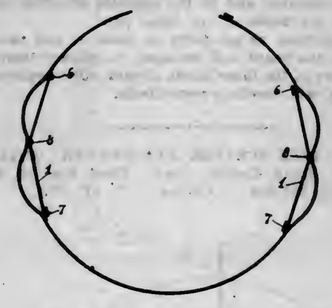
In a household refrigerator, the combination of a cooling compartment, an enclosure surrounding said cooling compartment and spaced therefrom, a working compartment below said cooling compartment, a liquid receiver in said working compartment, a pipe leading from the bottom of said receiver to a manifold, a valve in said pipe, a perforated plate in said manifold adjacent said pipe connection, cooling pipes leading from said manifold into said cooling compartment and returning to a second manifold, a pipe leading from the second manifold to a pump, and from said pump to a coil of cooling pipes connected to the top of said receiver, an electric motor, adapted to operate said pump and a fan simultaneously, air inlet and outlet openings in said working compartment, an electric circuit connecting said motor, a switch in said circuit, and means for controlling said switch and said valve simultaneously by the pressure in said receiver.

1,457,951. ROTARY ENGINE. JOSEPH VIGLIANO, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,434. 1 Claim. (Cl. 123—11.)



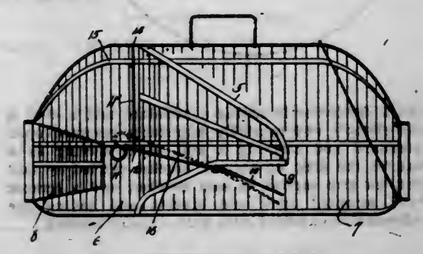
A rotary internal combustion engine, comprising a stationary cylindrical hollow body, a shaft centrally mounted thereon, a drum fixed to said shaft within said body and disposed concentrically therewith, fixed radial vanes on said drum having their outer ends in sliding contact with the inner face of said cylindrical body, a corresponding number of vanes carried by and slidably arranged on said drum, the outer ends of the last mentioned vanes being in contact with the inner face of said cylindrical body and their inner ends in contact with the outer face of said drum, said fixed and slidable vanes being arranged alternately and each slidable vane being provided with arc-shaped flanges on its ends, adjacent flanges on the slidable vanes being adapted to overlap and thus forming compartments in co-operation with said cylindrical body, drum and two sets of vanes, said cylindrical body being provided with an inlet port and an exhaust port, an ignition device between said ports, a lever engaging each sliding vane pivoted to said drum, a fixed cam co-operating with said levers for causing each sliding vane to reduce the size of its compartment after it has passed said inlet port, and means for preventing a backward motion, at the time of explosion, of each sliding vane, said fixed and sliding vanes moving always in the same direction.

1,457,952. GARMENT SUPPORTER. FRANK E. WILLIAMS, Hayward, Calif., assignor of one-third to Anthony L. Kelly and one-third to Frank S. Kelly, both of Hayward, Calif. Filed July 6, 1921. Serial No. 482,685. 1 Claim. (Cl. 241—9.)



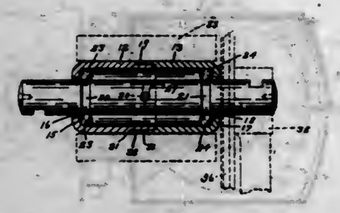
A garment supporter including an elastic strap, button fasteners sewed to each end of the strap, each fastener having a hole therein whereby the same may be buttoned to the garment, an elastic strap secured by its ends to the inside of the waist band of the garment, the first mentioned elastic strap passing under the last mentioned strap.

1,457,953. RAT TRAP. WILLIAM W. WORCESTER, Baltimore, Md. Filed Mar. 24, 1922. Serial No. 546,310. 5 Claims. (Cl. 43—69.)



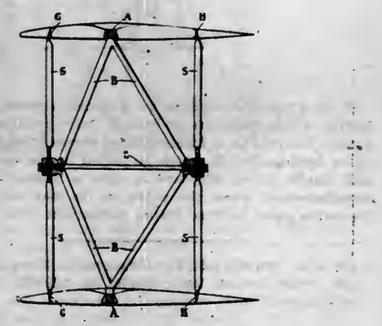
1. The combination with a trap having entrance and victim-receiving chambers, and a tiltable victim-operated gate establishing communication between said chambers; of a means for initially holding said gate in open position, said means operating to permit complete closure of the gate after the passage of the first victim into the victim-receiving chamber, and such closed position of the gate being thereafter its normal position.

1,457,954. ANTIFRICTION BEARING FOR BICYCLE CRANK SHAFTS, ETC. HUGH W. BATCHELLER, Worcester, Mass., assignor of one-half to H. F. Farrell, Worcester, Mass. Filed June 13, 1922. Serial No. 568,000. 6 Claims. (Cl. 64—36.)



1. An antifriction bearing comprising an internally cylindrical case, composed of two independent sections having meeting inner end portions, formed to be interengaged to constitute a continuous case, and having inwardly projecting annular flanges at their outer ends, forming ball race elements; said flanges bounding end openings in the case, a cylindrical shaft extending through the case and through said openings, and provided with peripheral ball-engaging grooves spaced to conform to said flanges; and two series of balls, the diameter of which is such that they bear simultaneously on the groove surfaces, and on the internal surface of the case, and the arrangement being such that the balls are confined by the case in engagement with the grooves, and confine the shaft and case against relative endwise movement, the sectional construction of the case permitting the assemblage of the parts by successive operations, as shown and described.

1,457,955. VARIABLE-CAMBER AEROFOIL FOR AIRCRAFT. FRANCIS PERCY HYDE BEADLE, East Boldre, England. Filed Dec. 8, 1922. Serial No. 605,619. 3 Claims. (Cl. 244—12.)

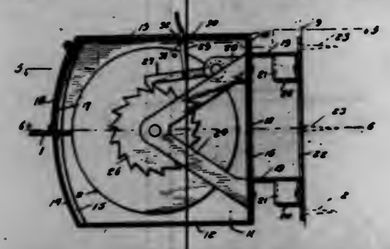


1. In a variable camber aerofoil mechanism for aircraft, a strut comprising a polygonal frame, a longitudinal spar fixedly supported by said frame at one of its angles, a series of fore and aft wing frame sections hingedly carried by said spar, and means for supporting the free edges of said wing frame sections and turning them about their hinges, said means being carried by said strut frame at other of its angles.

1,457,956. LAUNDRY HANGER. WOJCIECH BENCZALSKI, Hoquiam, Wash. Filed Mar. 9, 1922. Serial No. 542,282. 1 Claim. (Cl. 242—101.)

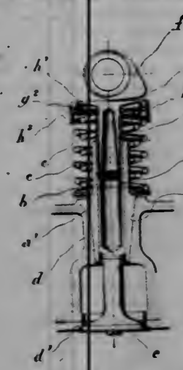
In a laundry hanger, a casing for receiving a clothesline reel, the same having its front forwardly curved between its upper and lower edges and having an opening

in the upper portion thereof, and a door for closing said opening hinged at its upper edge and adapted to swing outwardly at its lower edge and of less length than the opening so that when closed an opening is provided for



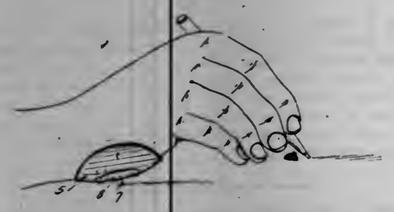
the passage of the clothesline, the edge portions of the door and front bordering upon the clothesline opening being thickened to prevent injurious contact with the clothesline.

1,457,957. MACHINE PROVIDED WITH VALVES. MARC BIRKIGT, Bois-Colombes, France. Filed Jan. 10, 1921. Serial No. 436,210. 2 Claims. (Cl. 123—188.)



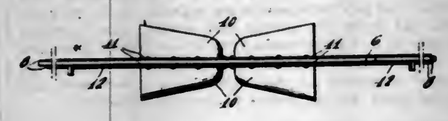
1. In a machine, such as an internal combustion engine having a removable frusto-conical valve guiding member, axially inserted in a frusto-conical recess in the engine, a valve having a stem which is guided in the said member and elastic means disposed in such a manner that they simultaneously press the valve on its seat and maintain the valve guide in close fitting connection with its recess.

1,457,958. HAND REST. CHARLES A. BOOKER, Minier, Ill. Filed Dec. 15, 1921. Serial No. 522,628. 2 Claims. (Cl. 120—54.)



1. In a hand rest for use in writing, a body having an angularly disposed portion on each side of the center forming a cradle, a plate attached to the outer surface of the body at approximately the center thereof, the said plate having its central portion free from the body and curved outwardly to form a clearance between the plate and the body, an anti-friction member, a shank carried thereby, said shank extending through the plate, and an enlargement on the inner end of the shank located between the plate and the body.

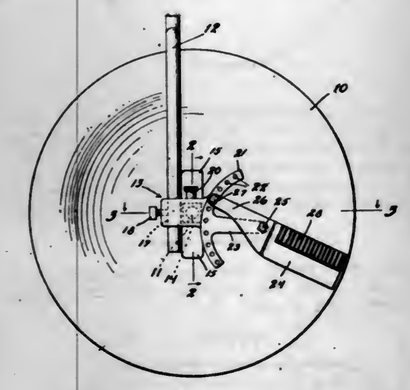
1,457,959. VENTILATOR. WILLIAM B. BRAUCHER, Chicago, Ill. Filed Nov. 7, 1921. Serial No. 513,351. 2 Claims. (Cl. 98—22.)



1. A ventilator comprising a board adapted to removably fit a window frame, said board having a pair of openings through the same, and a pair of hoods enclosing each opening, the hoods of each pair being located on the inner and outer sides of the board respectively, the mouths of the hoods of each pair being presented in the same direction and in the opposite direction to the mouths of the hoods of the other pair.

2. A ventilator as set forth in claim 1, and shutters pivoted to the board and swinging in contact therewith into and out of the inner hoods of said pairs respectively, and across said openings respectively.

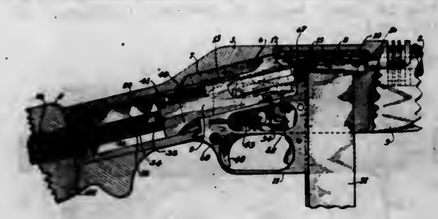
1,457,960. DISK SCRAPER AND FENDER. FRANK S. BRITTEN, South English, Iowa. Filed Apr. 10, 1922. Serial No. 551,204. 5 Claims. (Cl. 97—223.)



1. In a cultivator including a standard and a disk, a member slidably and rotatably adjustably mounted upon the standard and carrying a stub shaft serving as a journal for the disk, an arcuate bracket carried by said member, an arm carried by said member, and a scraper pivotally mounted upon said bracket and having one end adjustably connected with said arcuate bracket.

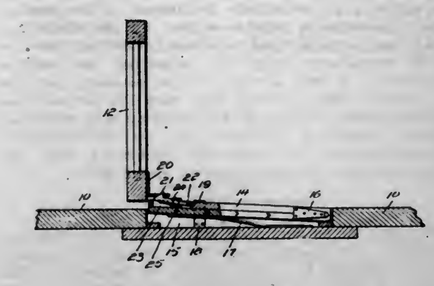
1,457,961. FIREARM. JOHN M. BROWNING, Ogden, Utah. Filed Apr. 13, 1921. Serial No. 460,907. 50 Claims. (Cl. 42—16.)

1. A firearm comprising a receiver, a barrel connected with the receiver, the receiver having a chamber the rear portion of which is diagonal to the axis of the barrel and the forward portion of which is coincident with said axis, an inertia-block located in the rear portion of the chamber, a breech-block coupled to the inertia-block and occupying when in its forward position



the forward portion of the chamber, and means for checking the retractive movement of the breech-block between the ends of its stroke.

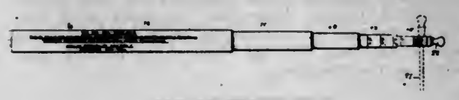
1,457,962. DOOR OR GATE LATCH. ARTHUR B. CHAMBERS, Memphis, Tenn. Filed Oct. 8, 1921. Serial No. 506,347. 5 Claims. (Cl. 292—94.)



1. In a latch device as characterized, a lock board hingedly mounted within a recess formed in the floor of a building, spring means normally tensioning said lock board in normally and forwardly inclined position, a latching element pivotally mounted on said lock board for latching a door or gate in a normally closed position, and spring means normally tensioning said element in its operative position, said lock board being operable by the weight of a person stepping thereon for effecting the release of said element whereby the door or gate may be moved from its normally closed position in the predetermined direction.

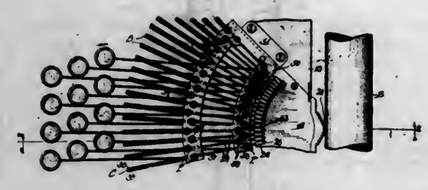
1,457,963. [WITHDRAWN.]

1,457,964. RECORD APPLIANCE. HARRY DOTY, Caldwell, N. J. Filed Jan. 5, 1920. Serial No. 349,592. 8 Claims. (Cl. 33—169.)



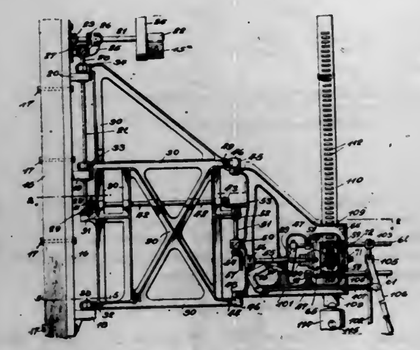
1. A record appliance comprising a collapsible, sectional chart bearing a measuring scale, and associated charting spaces for personal record entries at different ages, for the purpose specified.

1,457,965. TYPEWRITING MACHINE. LEO J. DU MAIS, Chicago, Ill., assignor to Garbell Typewriter Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 1, 1920. Serial No. 420,886. 13 Claims. (Cl. 197—25.)



7. In a typewriting machine, the combination with a platen and an endwise movable type bar; of bottom supporting and guiding means for the type bar; a bridge plate located above and spaced from the top of the type bar; and a guide, individual to the type bar, depending from said bridge plate and having means cooperable with the type bar to guide the latter against vertical upward movement and lateral movement.

1,457,966. WOOD-SPLITTING MACHINE. WATSON EASTMAN, Portland, Oreg., assignor to Western Cooperage Company, Portland, Oreg., a Corporation of Oregon. Filed Feb. 25, 1920. Serial No. 361,315. 15 Claims. (Cl. 144—193.)

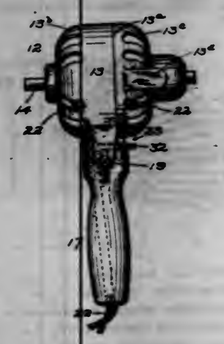


1. In a wood splitting machine, a support having a plurality of brackets spaced apart, a vertical power driven shaft passed through two of said brackets, a hinged frame having a plurality of supporting arms resting upon said brackets, a separate pivot connecting one of the arms with one of the brackets, the other arms turning on said shaft, wedge driving means mounted upon said frame, and means including said shaft for elevating said driving means.

1,457,967. MOTOR HANDLE AND SWITCH. OSCAR P. EBHARDT, West Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Feb. 26, 1918, Serial No. 219,258. Divided and this application filed Mar. 8, 1919. Serial No. 281,498. 5 Claims. (Cl. 200—157.)

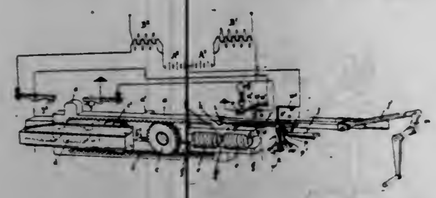
3. In a combined electric switch and handle for portable devices, a handle member having one end surface transverse to the longitudinal axis of said handle, a switch mounted upon said surface, said switch comprising a longitudinally slidable contact plunger, a con-

tact plate above said plunger with which the plunger is adapted to engage, and a laterally swinging controlling



member movable across and in contact with said end face between said plunger and said contact plate to break the contact thereof.

1,457,968. CONTINUOUS-ACTION SYNCHRONIZER. ROBERT ESNAULT-PELTERIE, Paris, France. Filed July 12, 1921. Serial No. 484,266. 8 Claims. (Cl. 123—1.)



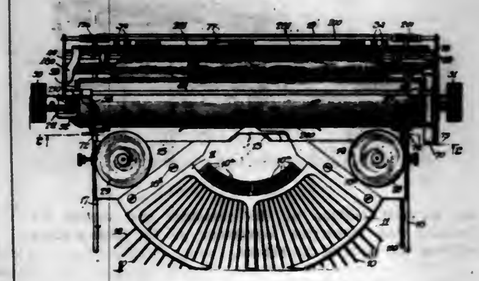
1. A continuous action synchronizer comprising two members adapted to move in opposite directions and means interposed between said members for constantly drawing the mean centre of gravity of the two members towards and into a normal position.

1,457,969. CLOTHES PIN. WILLIAM O. GADD, San Antonio, Tex. Filed July 5, 1922. Serial No. 572,764. 1 Claim. (Cl. 24—139.)



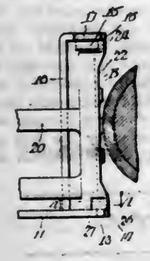
A clothes pin constructed from a single blank of resilient wire bent midway of its length to form a central eye consisting of a plurality of coils, arms projecting in opposite directions from said eye and having return bends to form loops having closed ends spaced from the eye, the closed ends of said loops being deflected to form line engaging seats, the arms being yieldingly held in position to have the line engaging seat bear transversely upon a line extending through the eye, said arms consisting of the terminal portions of the blank with the extremities of the blank provided with hooks for engaging the coils of the eye, and said arms normally occupying a position in a plane below the axial line of the eye.

1,457,970. TYPEWRITING MACHINE. MAX GARBELL, Chicago, Ill., assignor to Garbell Typewriter Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 24, 1920. Serial No. 360,598. 14 Claims. (Cl. 197—72.)



1. In a typewriting machine, the combination with a main frame; of a platen; a platen carriage comprising a platen frame on which the platen is rotatably supported and a sub-frame upon which the platen frame is mounted to reciprocate lengthwise of the platen; means providing a slidable support for the platen carriage on the main frame to adapt the carriage for case shift movements; means for imparting case shifting movements to said carriage; means normally operative to connect said carriage and case-shift-movement-imparting-means; and means for rendering said connecting means inoperative, whereby said case-shift-movement-imparting-means is completely disengaged from the platen carriage to permit removal of the latter.

1,457,971. TYPEWRITING MACHINE. MAX GARBELL, Chicago, Ill., assignor to Garbell Typewriter Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 1, 1920. Serial No. 420,892. 5 Claims. (Cl. 197—43.)

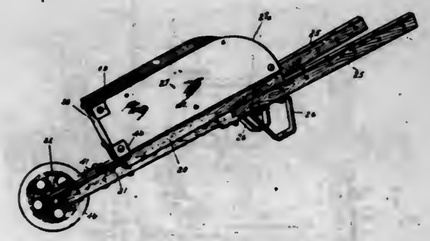


1. In a typewriting machine, the combination with a platen and an endwise movable type bar; of type bar centering guiding means adjacent the platen; and a type block mounted on the type bar, said block having cylindrical pin-like projections cooperable with said means, the axes of said pin-like projections coinciding with a line flush with the edges of the printing characters on the type block.

1,457,972. TOY. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 11, 1919. Serial No. 281,970. 7 Claims. (Cl. 280—87.5.)

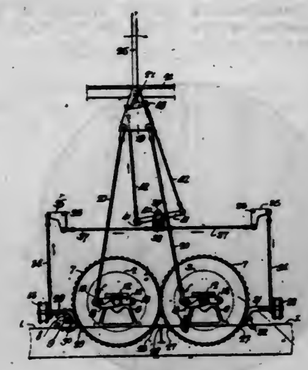
1. A toy vehicle construction, including a body member, a plurality of interchangeable substantially identical

elongated pieces secured to the body member some of them serving as yoke members and others as handle members, straps carried on the ends of said yoke mem-



bers, a ground engaging device supported by said straps, and means for detachably connecting said yoke members and said handle members to the body member.

1,457,973. BRAKE AND CLUTCH OPERATING MECHANISM FOR HOISTS. WILLIAM E. HALE, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1922. Serial No. 591,520. 2 Claims. (Cl. 192—17.)



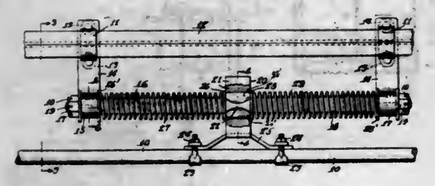
1. The combination in a power driven hoist, of two drums; means for driving the drums including clutch mechanism; brake mechanism for each drum; and a single operating means controlling the clutch mechanism and the brake mechanism so that, when one clutch is moved to couple the drum to the power driven mechanism, the brake of said drum will be automatically released.

1,457,974. PROCESS FOR MAKING WOOD EVERLASTINGLY FLEXIBLE. MAX HANEMANN, Munster, Germany. Filed Apr. 24, 1920. Serial No. 376,427. 1 Claim. (Cl. 144—309.)



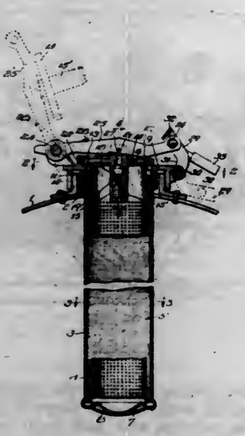
The process of making wood lastingly flexible, which consists in softening wood by heat and moisture, as by boiling or steaming, and while so softened compressing it endwise of the longitudinal fibres so as to crinkle or corrugate the latter but without distortion of the piece of wood as a whole, or sufficient side pressure to laterally interlock the said fibres.

1,457,975. STEERING STABILIZING DEVICE. JOSEPH HOFFMAN, Philadelphia, Pa. Filed Apr. 11, 1922. Serial No. 551,703. 1 Claim. (Cl. 280—94.)



An attachment for the steering gear of an automobile, a spring holding rod disposed between the drag link and front axle, said rod being provided between its ends with stop ribs integral therewith, means for attaching the ends of said rod with the front axle, washers on the rod upon opposite sides of the ribs, coil springs upon the ends of the rod engaging the washers, and a forked element embodying an off-set base secured to the drag link and a pair of spaced ears to engage between the washers.

1,457,976. FILLER TUBE. LOUIS KESSLER, Chicago, Ill. Filed Nov. 12, 1921. Serial No. 514,837. 12 Claims. (Cl. 220—86.)

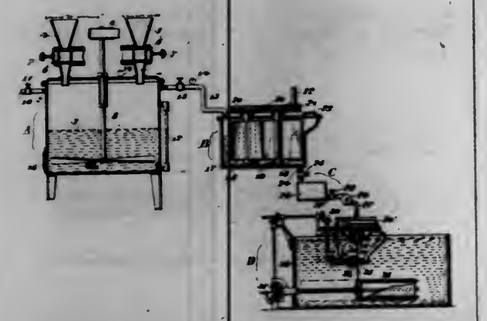


1. A filling tube of the kind described, comprising a pair of spaced inner and outer tubes perforated in their side walls, and a closure cap for the open end of both of said tubes, said inner tube resting on the bottom of the outer tube.

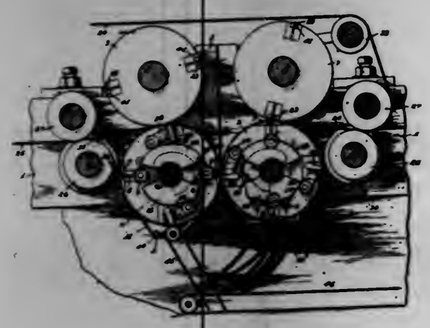
1,457,977. PRODUCING ARTIFICIAL SILK. ISIDOR KITSEE, Philadelphia, Pa. Filed Oct. 25, 1921. Serial No. 510,248. 6 Claims. (Cl. 18—54.)

4. In the production of artificial silk the improvement which consists in converting with the aid of nascent ammonia gas in conjunction with copper, cellulose fibers

into a viscous mass, and coagulating and spinning said coagulated mass into required threads through the operation of devices comprising one working unit and without allowing the atmospheric air to contact with the products during the different stages of production.



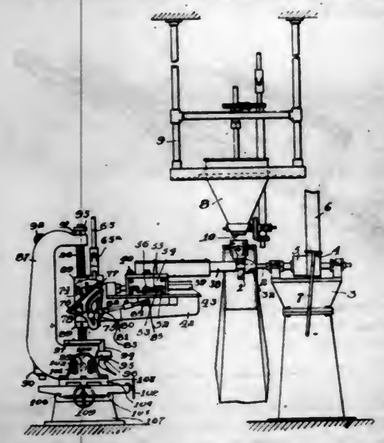
1,457,978. PAPER INTERFOLDING MACHINE. WILLIAM T. LAZAR, Appleton, Wis. Filed Nov., 3, 1921. Serial No. 512,569. 11 Claims. (Cl. 270—39.)



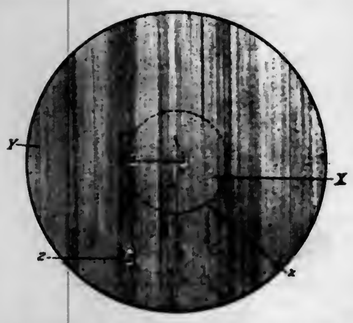
1. In a paper folding machine the combination with folder rolls having longitudinally disposed slots therein and cutter rolls coacting with said folder rolls to sever sheets of paper from a plurality of continuous webs, supplied to said rolls, of means for forming tabs upon the severed ends of the sheets; to extend across the slots in the folder rolls.

1,457,979. METAL SURFACING OR ABRADING MACHINE. SETH H. LEAVENWORTH, Rochester, N. Y. Filed Nov. 13, 1920. Serial No. 423,970. 26 Claims. (Cl. 51—105.)

1. In a metal surfacing machine, the combination with an abrading element and a rotary support for a work piece, of means for imparting to the rotary support simultaneously with the rotary movement, a bodily movement at a variable speed to correspond with the distance that the point being surfaced is situated from the axis of rotation of the work piece so that the abrading element operates upon each portion of the surface, a substantially equal amount notwithstanding the distance of the portion from the center of rotation of the work piece.

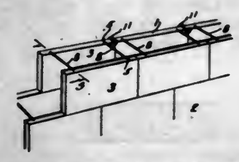


1,457,980. HEADLIGHT LENS. WALTER B. MCMASTERS, Wheeling, W. Va. Filed Jan. 12, 1921. Serial No. 436,757. 2 Claims. (Cl. 240—48.4.)



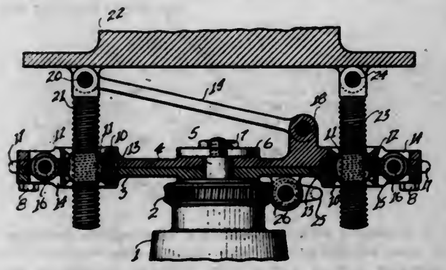
1. A headlight lens having one face prismed vertically, the prisms being of diminutive width and correspondingly numerous, the outer lens area thereof having the prisms thereof formed with blunt apexes and the central area having sharper apexes.

1,457,981. BUILDING CONSTRUCTION. JOSEPH NEWTON MACDONALD, Arlington, Mass. Filed Oct. 6, 1921. Serial No. 505,836. 4 Claims. (Cl. 72—44.)



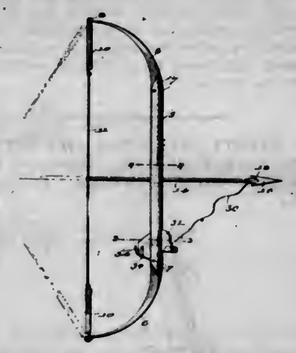
3. In a wall construction, a series of superimposed slabs, fastener elements retaining said slabs in vertical alinement, each element comprising a U-shaped member having the extremities of its arms bent into ring-shape.

1,457,982. CAMERA SUPPORT. DAVE MAKOWER, San Francisco, Calif. Filed Jan. 7, 1922. Serial No. 527,733. 3 Claims. (Cl. 45—110.)



1. A device of the character described comprising a pedestal, a gear rigidly secured on said pedestal, a support rotatably mounted above said gear, said support comprising plates superimposed one upon the other, annular recesses formed in said plates, orifices formed in said plates concentric with said annular recesses, bearings mounted within said orifices, a gear formed on each of said bearings, said gears being adapted to lie within said annular recesses, internally threaded members mounted within said bearings and adapted to oscillate with respect to the vertical adjustment of said bearings, means for causing said members to rotate with said bearings, threaded standards having engagement with said internally threaded members, a support mounted on said standards, and means for rotating said bearings.

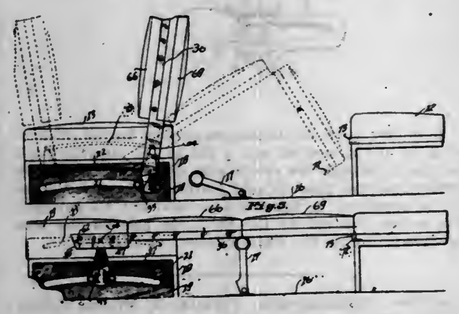
1,457,983. FISHGIG. IRA EARNEST MALONE, Beeville, Tex. Filed Apr. 18, 1922. Serial No. 555,190. 5 Claims. (Cl. 124—7.)



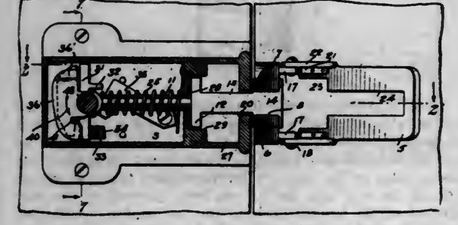
1. The combination of a bow having curved terminal members, tensioning springs connected to said curved terminal members, a flexible element connecting said springs, an arrow associated with said flexible element, said bow consisting of a pair of half round body strips, arranged in spaced relation and secured to opposite sides of said bow, a cord connected to the bow, an arrow movable between and guided by said body strips, said cord being connected to said arrow, and a cup carried by said bow and supporting said return cord, the forward side of said cup being open for the free discharge of the cord.

1,457,984. FOLDING AUTOMOBILE BED. CARL MANDEL, San Francisco, Calif. Filed May 1, 1922. Serial No. 557,632. 2 Claims. (Cl. 155—7.)

1. In an automobile bed, the combination of front and rear seats, slotted plates secured to the sides of said front seat, supports mounted in said slots and having roller engagement therewith, a brace extending between said supports, back supports pivoted on said movable supports, sliding bolts normally locking said back supports to said movable supports in alignment therewith, a frame hingedly secured to said back supports at their upper extremities, means for holding said frame in parallel alignment with said back supports and means for releasing said back supports thereby permitting movement of the latter and said frame into substantially the same plane as said seats.



1,457,985. LOCK. JULIUS MANN, New York, N. Y. Filed July 29, 1921. Serial No. 488,439. 6 Claims. (Cl. 70—14.)



2. A lock comprising a keeper, a locking bolt, said bolt being provided with an abutment having a projection, a manually actuated thumb member, and an actuator connected with said thumb member, said acutator being provided with a notch and a pressure portion, said pressure portion acting to actuate said bolt, said notch receiving said projection of said abutment and thereby locking the bolt against movement permitting the bolt being unlocked only by the thumb operating actuator.

1,457,986. METHOD OF PREPARING INNER TUBES FOR VULCANIZATION. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1919, Serial No. 324,845. Renewed Jan. 9, 1923. 6 Claims. (Cl. 18—56.)



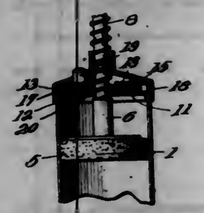
1. The method of preparing rubber tubes for vulcanization consisting in mounting the tube upon the mandrel, wrapping the tube with a strip of fabric, subjecting the tube with the wrapping thereon to a preliminary warming, and removing the wrapping.

1,457,987. SAFETY LOCK FOR LOGGING HOOKS. OLE MICKELSON, Hoquiam, Wash. Filed Nov. 1, 1922. Serial No. 598,406. 2 Claims. (Cl. 24—241.)



1. A butt hook for logging apparatus having a shank with an eye at one end and a bill at the other, a pintle to extend through the eye in said shank, and a disk-like locking member fixed to said pintle and having a recess in its periphery to register with said bill for releasing the article engaged by the hook, the pull on the hook operating to hold the pintle against turning.

1,457,988. GREASE GUN. CHARLES R. MILLER, Collinsville, Tex., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed Oct. 12, 1921. Serial No. 507,226. 5 Claims. (Cl. 221—79.)



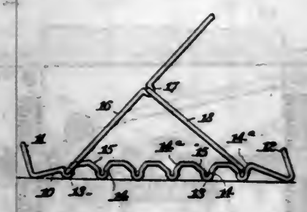
1. In a device of the character described the combination with a cylinder having at one end a transversely extending support, a threaded rod passing through the end of the cylinder, two transverse levers located at opposite sides of the rod, the levers pivoted together at one side of the rod, one end of one lever pivoted to the said support at the opposite side of the rod, and an oscillating cap connected to the other end of the lever whereby the oscillation of the cap will cause the levers to engage and disengage said rod.

1,457,989. MIXING DEVICE FOR INTERNAL-COMBUSTION ENGINES. MICHAEL S. MONKS, Pittsfield, Mass. Filed Nov. 10, 1921. Serial No. 514,303. 1 Claim. (Cl. 48—180.)



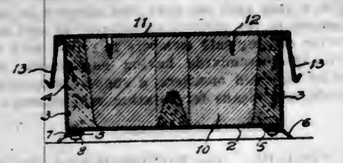
An atomizing device for internal combustion engines comprising a plate for insertion intermediate the carbureter and intake manifold of the engine, said plate having an aperture to register with the carbureter opening and the manifold, one wall of said aperture having a priming chamber to receive and retain condensed gas, and a helical flat metal spring mounted in said aperture and arranged edgewise with the edges in the direction of the flow of the gases, said spring having an opening for the passage of the condensed gas.

1,457,990. DISPLAY STAND. EDWARD CUTLER MORGAN, New York, N. Y. Filed Aug. 27, 1921. Serial No. 495,997. 5 Claims. (Cl. 211—24.)



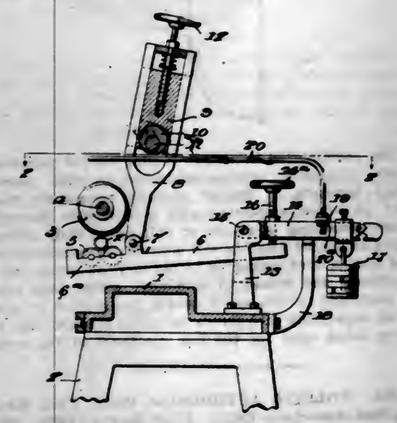
3. A display stand embodying a substantially rectangular base having parallel side bars, a superstructure including a support and a prop pivotally secured to the support and means included in the side bars for detachably gripping the support and removably receiving the prop of the superstructure.

1,457,991. MOLD FOR TILES OR BLOCKS OF CONCRETE. MERRILL MOORE, Creston, Iowa. Filed Apr. 18, 1922. Serial No. 554,744. 7 Claims. (Cl. 25—121.)



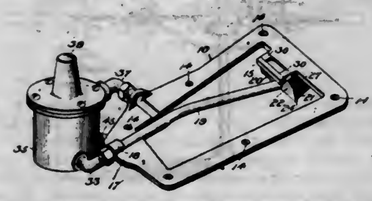
1. A mold of the character described comprising sides and a bottom member, and end members each formed with an open folded portion beneath the bottom, said folded portions terminating in an inclined downwardly and outwardly extended inclined portion forming a seat for said mold, and means for yieldingly securing the end members to the bottom.

1,457,992. SAFETY DEVICE FOR PIPE-CUTTING MACHINES. HACKLEY MORRISON, Richmond, Va. Filed May 25, 1921. Serial No. 472,456. 10 Claims. (Cl. 164—60.)



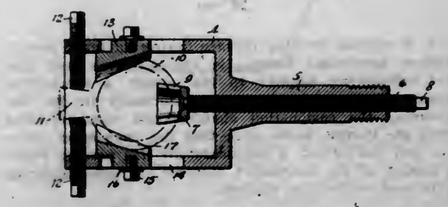
1. In a pipe cutting machine, the combination with supporting rolls and a cutter disc, of power operated means for moving the one toward the other, in a path passing through the axis of the disc, to effect a cut, and manual means for regulating at will during the cutting operation, the pressure on the work held between the rolls and cutter disc.

1,457,993. LUBRICATING SYSTEM FOR AUTOMOBILES. GIRARDUS G. NAUGLE, York, Pa. Filed Jan. 30, 1922. Serial No. 532,818. 10 Claims. (Cl. 184—11.)



6. In a lubricating system for automobiles, a transmission case having an opening therein, an oil receiving trough supported within said case and to one side of said opening, a discharge pipe leading from said trough to a point outside of said case, a sight feed connection secured to said discharge pipe at a point in proximity to said transmission case, and means for returning oil to the transmission case from the sight feed connection through two passageways of different lengths.

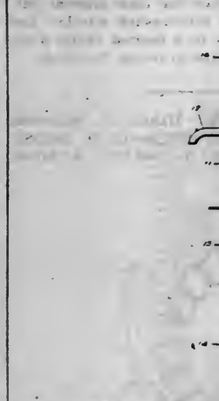
1,457,994. CHUCK. IVAN T. NEDLAND, Hillsboro, N. Dak. Filed Sept. 11, 1922. Serial No. 587,419. 1 Claim. (Cl. 279—55.)



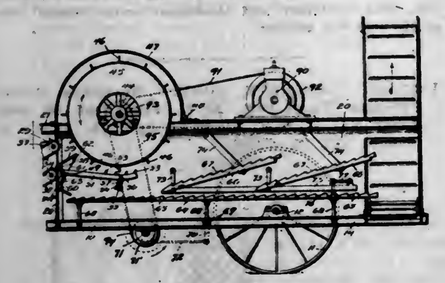
A chuck for holding a finger ring to present the mounting boss of the ring to a cutting tool including the combination of adjustable means for engaging and centering the boss, and means adjustable lengthwisely of the chuck for engaging the ring proper, the means last-mentioned including a forked holder within the chuck for embracing the ring-proper, and also including a sliding dog on the chuck for engaging the ring proper intermediate the forked holder and the boss engaging means.

1,457,995. WATER-ELEVATING DEVICE. PETER T. NELSON, Gem, Kans. Filed Jan. 24, 1922. Serial No. 531,513. 1 Claim. (Cl. 103—194.)

In a means for elevating water from a well comprising a cylinder arranged in the well, a pump head in communication with the cylinder, a pipe carried by the pump head, a T interposed between the ends of said pipe, a cylinder supported by the T, means to force the water to the pump head, the pipe, and last mentioned cylinder, respectively, and said pipe having its free end closed forming an air compression chamber therein to assist the water to the last mentioned cylinder and means to force the water from the last mentioned cylinder to a predetermined destination.

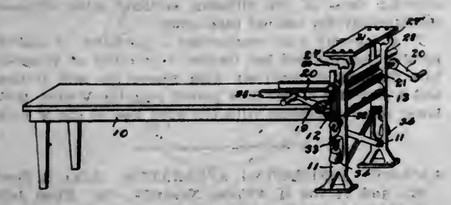


1,457,996. GRASS ERADICATOR. STEVEN C. NELSON, Finley, N. Dak. Filed Apr. 7, 1922. Serial No. 550,458. 5 Claims. (Cl. 97—10.)



1. In a machine of the class described, a slatted cylinder mounted for rotation, a concave device having alternating slots and retarding fins coacting with the slats of the cylinder, means for swingingly supporting said concave device at one end, means for yieldably supporting said concave device at the other end, means for feeding material to the cylinder and concave device, and a baffle member yieldably supported between the feeding means and the cylinder.

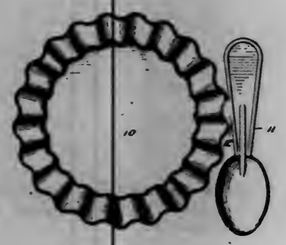
1,457,997. PLAITING APPARATUS. MAX NOEL, Washington, D. C. Filed May 11, 1921. Serial No. 468,702. 8 Claims. (Cl. 223—39.)



1. In a plaiting machine of the character described, the combination of a table element, a roll in close rela-

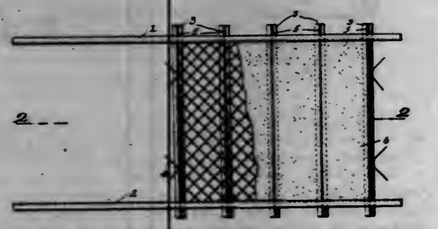
tion thereto, a winding drum mounted in yielding bearing upon the roll, means to secure patterns and fabric to the drum to feed thereto from the table element pattern sheets shaped to fold in intermeshed relation and coact to hold interposed goods to a desired shape when wound upon the drum, and means to rotate the drum.

1,457,998. TABLE ARTICLE. HARRY G. NORWOOD, Baltimore, Md. Filed Aug. 12, 1920, Serial No. 402,981. Renewed Nov. 8, 1922. Serial No. 599,725. 4 Claims. (Cl. 65—15.)



1. A new article of manufacture comprising a container and an implement, such as a fork, spoon or the like, said container and implement being formed integrally with one another.

1,457,999. CONCRETE FORM. WALDEMAR JULIUS PEDERSEN, Floral Park, N. Y. Filed Sept. 20, 1920, Serial No. 411,653. Renewed Apr. 21, 1923. 10 Claims. (Cl. 25—12.)

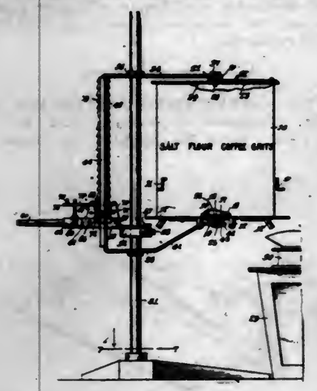


1. A concrete structure comprising a plurality of separate sections disposed adjacent each other, connections extending between the sections, the portions of abutting faces of adjacent sections being angularly disposed with respect to each other, and other portions of abutting faces of the adjacent sections being disposed substantially flat against each other.

7. A concrete form comprising a plurality of spaced, parallel, longitudinal bar frames, a plurality of V-shaped bars disposed transversely with respect to said frames, and a plurality of flat bars placed over the V-bars, their lower edges coinciding with the apex line of the V bars.

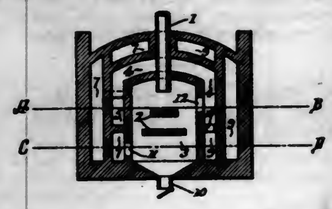
1,458,000. DISPENSING APPARATUS. ALVA R. POWELL and VICTOR H. FUTCH, Nashville, Ga. Filed July 6, 1922. Serial No. 573,229. 6 Claims. (Cl. 211—9.)

1. A dispensing apparatus comprising a standard, a vertically adjustable and swinging dispensing bin or receptacle, a supporting bracket mounted on the standard and provided with a rack bar formed with two rows of



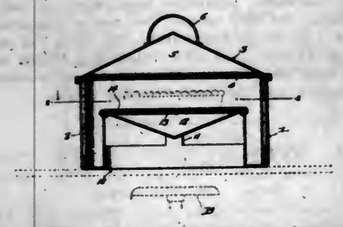
teeth, a lever and pawl mechanism supported from the standard and associated with said rack bar for elevating the bracket carrying the bin therewith.

1,458,001. METHOD OF BURNING SULPHUR. ARTHUR T. PRENTICE, Somerset West, Cape of Good Hope, South Africa. Filed June 8, 1922. Serial No. 566,780. 3 Claims. (Cl. 23—1.)



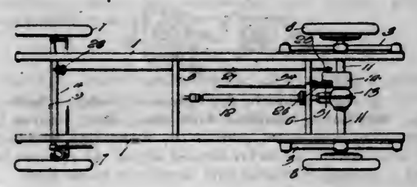
1. A sulphur burning furnace having an inner central burner, superposed hearths in the burner, a feed pipe for introducing sulphur to the burner, a combustion chamber surrounding the burner, a primary air flue surrounding the combustion chamber and communicating with the burner, ports connecting the combustion chamber and the burner, a secondary air flue passing round a portion of the combustion chamber and communicating with said combustion chamber.

1,458,002. PORTABLE OVEN. CLYDE H. REDDIG and HARRY A. BARRETT, Lincoln, Nebr. Filed Apr. 15, 1921. Serial No. 461,708. 2 Claims. (Cl. 126—275.)



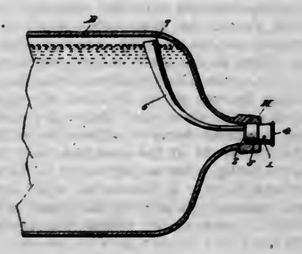
1. An oven of the class described comprising a hood with top and side walls equipped with heat insulators, and an inverted cone-shaped hollow vacuum chamber forming the food supporting member.

1,458,003. TRANSMISSION ATTACHMENT. GEORGE R. RICHARDSON, Greene, N. Dak. Filed July 27, 1922. Serial No. 577,977. 8 Claims. (Cl. 180—54.)



1. A structure of the character described comprising a driven axle, a sleeve loose on said axle, means actuated by a vertically moving vehicle chassis for imparting rotary movement to the sleeve while the vehicle body is moving vertically in one direction and retarding movement of the chassis in the said direction, and manually controlled means movable into and out of position for permitting transmission of rotary movement from said sleeve to said axle.

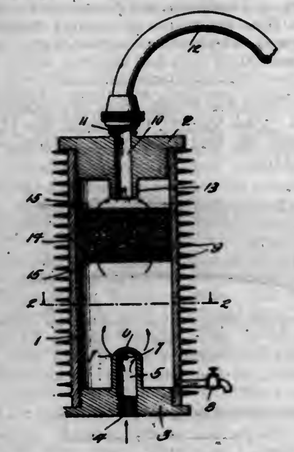
1,458,004. FLUID-DISCHARGE MEANS FOR BOTTLES. BENJAMIN E. ROBINSON, Sallyards, Kans. Filed Feb. 21, 1921. Serial No. 446,619. 4 Claims. (Cl. 215—79.)



1. A bottle closure comprising a hollow shell fitting the mouth of the bottle, and an air tube in one piece with the shell and curving toward one side of the bottle in an upward direction and gradually expanding toward that end remote from the shell with the wide end terminating close to the inner wall of the bottle when the latter is substantially horizontal.

1,458,005. AIR-PURIFYING DEVICE FOR MOTOR-DRIVEN TIRE PUMPS. DANIEL ROHRER, Spokane, Wash. Filed Mar. 24, 1921. Serial No. 455,180. 2 Claims. (Cl. 183—48.)

1. An air purifying and cooling device for motor driven tire pumps, comprising a vertically elongated cylinder closed at both ends and provided between its end walls with openwork partitions extending uninterruptedly across its interior and air filtering material between said partitions, the lower end wall of said cylinder having a central air inlet port for communication with the air outlet of a motor driven tire pump, said lower end wall having an integral tube around said inlet port extending upwardly into the cylinder and provided with a perforated dome-like closure at its upper end, said tube serving to prevent return of oil through said air inlet port, the upper end wall of said cylinder being formed with a vertical air outlet port and an external nipple through which it extends, said nipple being



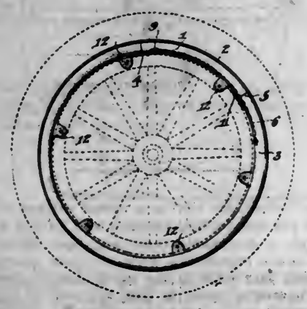
threaded for engagement with a hose connection by means of which an inflation hose may be connected to the cylinder.

1,458,006. PROCESS OF MAKING PLUGS. FREDRICK J. RUNSER, Cleveland, Ohio, assignor to The Byrne Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 20, 1922. Serial No. 578,394. 1 Claim. (Cl. 10—10.)



The herein described process of forming barrel plugs or like articles which consists in cutting a bar of metal into sections, then in forging each section into a blank having a shank and a head with an annular shoulder on the under side of the head, and finally in finishing each blank and cutting away a portion of the shoulder to form a gasket seat around but spaced from the under face of the head.

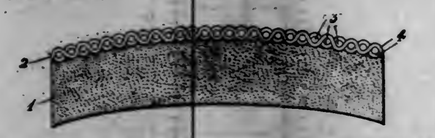
1,458,007. DEMOUNTABLE RIM. MACK SEED, Billett, Ill. Filed Aug. 1, 1922. Serial No. 578,957. 3 Claims. (Cl. 301—32.)



1. A demountable rim having a circumferentially incomplete section hinged at one end to the adjacent end

of the rim, a latch on the other end of the rim for connecting the latter to the hinged section, and a spring connected to the second named portion of the rim at the end remote from the hinge and resisting displacement of the incomplete section from circumferential continuity with the rim.

1,458,008. FILLER FORM. ROY W. SEXTON, Wytheville, Va. Filed Mar. 26, 1915, Serial No. 17,145. Renewed Mar. 26, 1921. Serial No. 455,982. 6 Claims. (Cl. 2—147.)



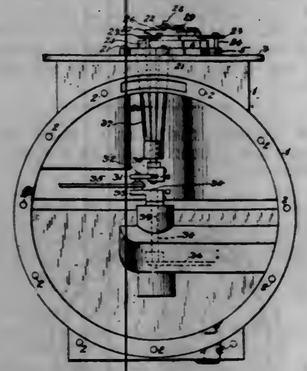
1. A washable filler form embodying an embroidery design adapted to be completely covered by embroidery threads, and comprising a flexible form body of felted fibers combined with an outer layer of inextensible crossing threads firmly attached to the felted body to lock the same against distortion and bunching.

1,458,009. SPLICE. BENJAMIN F. SPARLING, Unionville, N. Y. Filed Apr. 13, 1922. Serial No. 552,366. 2 Claims. (Cl. 245—12.)



1. In combination with strands, a splicing element of sinuous shape, said strands being interwoven with said splicing element and with each other, and said strands being secured together.

1,458,010. GAS METER. HENRY H. SPRAGUE, Bridgeport, Conn., assignor to The Sprague Meter Company, Bridgeport, Conn. Filed July 14, 1921. Serial No. 484,549. 2 Claims. (Cl. 73—1.)



1. A gas meter body having a raised surface to form a floor for a gas distributing chamber and having gas ports therethrough, a detachable valve seat base having raised seats and ports registering with the floor ports, valves for the seats, said floor having an opening therethrough, said base having a curb for said opening, a bracket located within the curb and detachably secured to the base, and a crank shaft operatively connected to the valves and journaled in the bracket.

1,458,011. GAS METER. HENRY H. SPRAGUE, Bridgeport, Conn., assignor to The Sprague Meter Company, Bridgeport, Conn. Filed July 14, 1921. Serial No. 484,550. 2 Claims. (Cl. 73—1.)



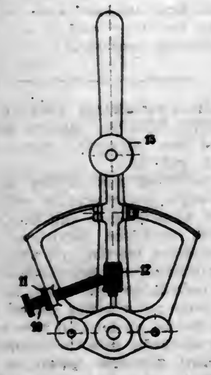
1. In a gas meter of the character described having a gas distributing chamber with crank shaft, valves and the worm and worm gear of the registering mechanism located therein, a bracket secured within the chamber having a housing enclosing said worm and worm gear.

1,458,012. GRATE. JOHN A. STACKHOUSE, Dover, N. J. Filed Apr. 8, 1922. Serial No. 550,912. 2 Claims. (Cl. 126—170.)



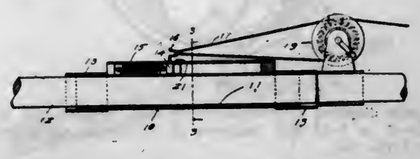
1. In a device of the class described, a plate having a depending sleeve, the sleeve being provided with circumferentially elongated openings, and the plate having notches communicating with the openings; and a grate within the sleeve, the grate being supplied with trunnions located in the openings and movable therein to permit a tilting of the grate and a circumferential oscillation of the grate, the trunnions being insertable into the openings by way of the notches, the upper edges of the openings being flush with the under surface of the plate, the trunnions being of substantially the same diameter as the height of the openings, and the thickness of the grate being substantially equal to the diameter of the trunnions, thereby to dispose the upper surface of the grate in a common plane with the lower surface of the plate, whereby none of the combustible material on the grate will come into contact with the sleeve.

1,458,013. OPERATING HANDLE FOR CONTROL OR OTHER MECHANISM. RENÉ JEAN CAMILLE TAMPIER, Boulogne-sur-Seine, France. Filed Mar. 23, 1921. Serial No. 454,923. 5 Claims. (Cl. 74—89.)



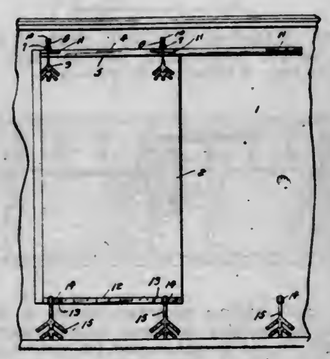
1. The combination of a support, a swinging handle pivoted thereon, a stop carried by the support and adjustable to vary its position with relation to the handle, and a member carried by the handle for engagement with the stop during the movement of the handle in one direction, to limit said movement; said stop and member constituting companion parts, one of which is movable to a position to avoid such engagement and thereby permit the handle to swing beyond the stop.

1,458,014. SELF-REGISTERING SCALE FOR FISHING RODS. LEONARD A. WAILES, New Orleans, La. Filed Apr. 11, 1921. Serial No. 460,407. 1 Claim. (Cl. 265—63.)



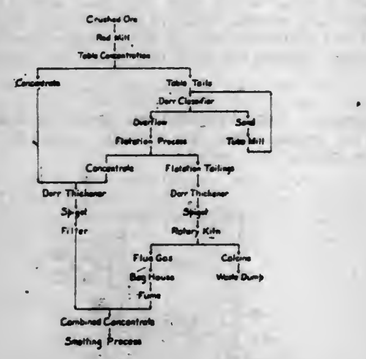
A fishing rod scale comprising a slit sleeve expansible and contractible to adapt it to be applied to fishing rods of various diameters, rings engaging the ends of said sleeve to hold it against accidental displacement, a member arcuate in cross section secured at its longitudinal edges to the upper side of the sleeve and adapted in conjunction with the sleeve to provide a casing having a longitudinal slot in its upper side, a follower within said casing, a hook carried by said follower and extending through said slot and adapted to have running engagement with a fishing line, a coil spring connected at one end to said follower, blocks closing the ends of said casing, said coil spring connected at its other end to one of said blocks, an indicator within said casing and independent of and in the path of movement of said follower, said indicator having frictional contact with the walls of said casing and adapted to be moved by said follower when the follower is moved by tension applied to a fishing line, said indicator adapted to be left in indicating position when the follower is returned to normal position by said spring, whereby the indicator will indicate the extent of movement of said follower, and said indicator having a portion extending through said slot whereby the position of the indicator is readily ascertainable.

1,458,015. DOOR HANGER. EARL E. WHALEY, Tacoma, Wash. Filed Aug. 2, 1921. Serial No. 489,190. 1 Claim. (Cl. 20—23.)



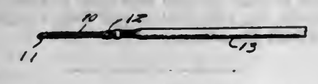
Means for mounting a sliding door, the same comprising a track mounted above the door opening and having an overhanging portion and upwardly extending and depending flanges along the outer edge of the overhanging portion, said depending flange serving to prevent outward displacement of the door, said upwardly extending flange forming a track and being provided with a plurality of equally spaced inwardly deflected portions, a reinforcing strip at the outer lower edge of the door, said reinforcing strip being provided with outwardly deflected portions spaced the same distance apart as the inwardly deflected portions of the upwardly extending flange, hangers carried by the door and having rollers operating on the upwardly extending flange, brackets mounted below the door and in vertical alignment with the inwardly deflected portions of the track, said brackets extending outwardly and upwardly and carrying rollers at their free ends, said rollers adapted to engage the outwardly deflected portions of the reinforcing strip when the rollers of the hangers engage the inwardly deflected portions of the upwardly extending flange, whereby said deflected portions cooperate with each other and with the hangers and brackets to keep the door close to the structure on which it is mounted when it is either in open or closed position.

1,458,016. METHOD OF TREATING SILICIOUS ORES. GEORGE H. WIGTON, Eureka, and SAMUEL M. SEDDON, Salt Lake City, Utah. Filed Aug. 5, 1922. Serial No. 579,883. 8 Claims. (Cl. 75—64.)



4. The method of treating silicious ores containing oxidized lead, silver, and gold which consists in removing the coarse heavy minerals by gravity concentration, removing the remaining natural sulphides together with native precious metals by a flotation process; feeding the remaining oxidized minerals as a slurry to a temperature of from 1700° F. to 2500° F. in an oxidizing atmosphere; collecting the fume, and in smelting the combined concentrates.

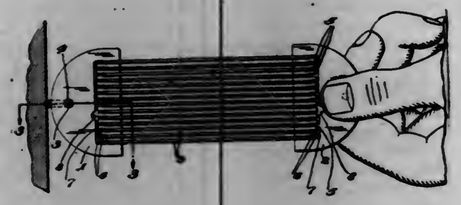
1,458,017. SHOE-LACE TIP. CHARLES S. WOLF, Sr., Houston, Tex. Filed Aug. 10, 1921. Serial No. 491,232. 1 Claim. (Cl. 24—143.)



A lace tip consisting of a plurality of strands twisted together to form the body of the tip and with each strand formed into an eyelet at one end of the body, said eyelets being of substantially the same width as the body and in flat contact whereby a lace may be passed through both

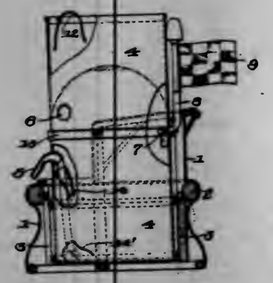
of the eyelets and fastened about the same without undue increase in the cross-sectional area of the lace and with the strain equal on each strand.

1,458,018. COMB CLEANER. ARNE O. ALSAGER, Willow Creek Township, Lee County, Ill. Filed Dec. 31, 1921. Serial No. 526,379. 1 Claim. (Cl. 132—29.)



As a new article of manufacture, a comb cleaner comprising a pair of carrier plates each having a transverse slot formed therein, and a plurality of recesses projecting to one side from said slots and forming tongues, and a plurality of strings engaged in said recesses and about said tongues and extending from one carrying member to the other, said recesses being dove tail in shape having their wide ends remote from said slots, said carrying members provided with enlargements on said transverse slots to facilitate the insertion of the strings through the slots and about said tongues.

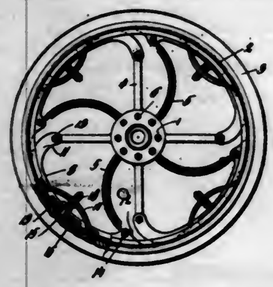
1,458,019. LIFE PRESERVER. TOKUJIRO AOKI, Tokyo-Fu, Japan. Filed July 9, 1921. Serial No. 483,639. 6 Claims. (Cl. 9—12.)



1. A life preserver comprising a chair provided with a seat, the portion of the chair arranged beneath the seat forming a chamber, a water-proof sack normally occupying said chamber and capable of being opened out to permit a person to occupy the same, a buoyant belt extending around said chair, windows covered with transparent material arranged in said sack, a hoop connected to the sack, means for fixing said hoop to the chair back in order to hold said hoop in raised position, and a ventilating tube fixed to said hoop and adapted to be raised with the same.

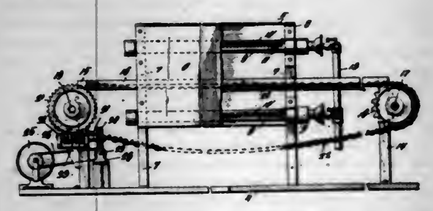
1,458,020. RESILIENT WHEEL. GEORGE C. ATKINSON, Georgetown, Tex. Filed Mar. 22, 1922. Serial No. 545,909. 2 Claims. (Cl. 152—49.)

2. A resilient wheel comprising a hub, spokes radiating therefrom, a plurality of members, one pivoted to each spoke and curved to form a separate felly section, springs connecting the free ends of the members to the hub, an encircling rim supported by said members and resilient



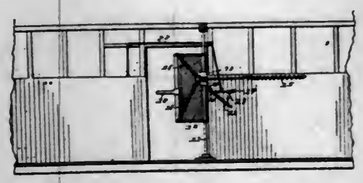
means disposed intermediately of each member and tensioned to hold the members in frictional engagement with the rim.

1,458,021. TOASTING MACHINE. FRANK LIVINGSTONE BAMFORD, Detroit, Mich. Filed Apr. 9, 1920. Serial No. 372,495. 2 Claims. (Cl. 126—41.)



1. A toasting machine comprising an oven, a foraminous conveyor having its upper run passing through the oven, a pair of horizontally disposed burners arranged above and below the said upper run of the conveyor, each pair of burners being arranged in spaced parallel relation to each other and the sides of the oven, the pair of burners which are arranged below the upper run of the conveyor being disposed between the runs of the conveyor and a heat radiating plate supported upon each pair of burners and extending from end to end and side to side of the oven to evenly distribute heat above and below the upper run of the conveyor.

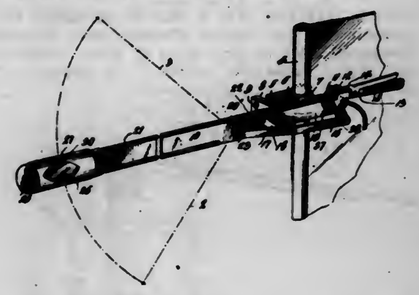
1,458,022. MAIL-BAG CATCHER. WILLIAM F. BECHTEL, Lehigh, Iowa. Filed Nov. 15, 1921. Serial No. 515,302. 2 Claims. (Cl. 258—20.)



1. A mail catching apparatus having a receptacle mounted for swinging movement in a horizontal plane to project an end thereof beyond the vertical plane of the side of a car, a return spring connected with the inner end of the receptacle for swinging the latter to its normal position within the car, and means, releasable by a jar applied rearwardly to the exposed end of

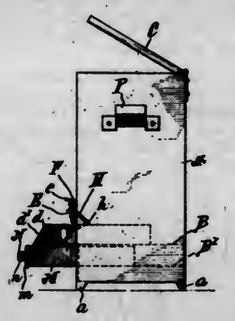
the receptacle for holding the latter in its mail receiving position in opposition to said return spring, the receptacle being provided with a grip or handle for swinging the same to its receiving position, and an operating cord being connected with said locking means for moving the latter to the receptacle engaging position.

1,458,023. SIGNAL FOR VEHICLES. EDWARD BEDNARS, Everett, Wash. Filed July 13, 1922. Serial No. 574,703. 6 Claims. (Cl. 116—54.)



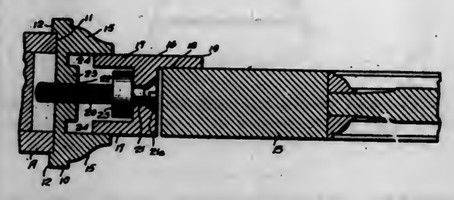
1. In combination, a supporting arm including a head having a plurality of notches arranged thereon, a bell crank lever pivoted on the head and provided with a spring pressed dog engageable with said notches, a semaphore pivoted on the supporting arm, and a rod connecting the semaphore with the bell crank lever in the manner and for the purpose specified.

1,458,024. COAL BOX. WADE ETHEL BENSON, Baton Rouge, La. Filed Jan. 18, 1923. Serial No. 613,475. 1 Claim. (Cl. 126—283.)



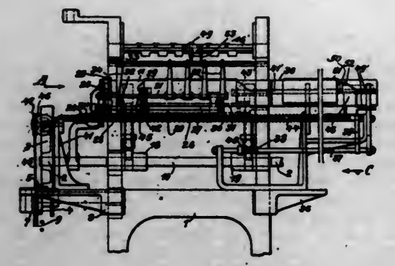
A coal box comprising a casing having a removable cover through which to admit the coal and provided with two bottoms, one spaced above the other, the front wall of the receptacle at and near said bottoms being substantially vertical and having openings at each of the bottoms, drawers slidably fitted through said openings and resting upon said bottoms, the upper drawer adapted to receive the coal put in through the removable cover, said upper drawer having its entire front portion left open and having substantially triangular projecting portions at the front of its sides adapted to extend beyond the substantially vertical wall of the casing said substantially triangular projecting portions being enlarged laterally to engage the sides of the opening in the casing, the outer edges of said triangular portions being inclined from the top downwardly and outwardly, a hinged door above the upper drawer and upon the front wall of the casing adapted to extend down in the diagonal position across the open front of the upper drawer and adapted to rest against the inclined face of said triangular portions, said door having a flange on its lower end adapted to extend beneath the bottom of the upper drawer.

1,458,025. ADJUSTABLE JAMB UNIT. CARL F. BIELE, Montclair, N. J. Filed Jan. 20, 1921. Serial No. 438,789. 2 Claims. (Cl. 20—12.)



1. A jamb unit comprising a back bar presenting a depressed rear surface adapted to lie against the edges of an opening in a wall, there being vertical side members at the sides of said depressed surface to overlie the side surfaces of said wall, said bar having vertical side flanges at the front, a front bar having side flanges snugly accommodated between the flanges of the back bar, said back bar having channels adjacent to the flanges thereof to receive the edge portions of the second mentioned flanges, and adjusting screws passing transversely through said front and back bars to vary the effective width of the unit, said screws being held to the front bar against axial movement.

1,458,026. LAYING-ON APPARATUS FOR BOOK-FASTENING MACHINES. ULRICH BISCHOF, Horgen, Switzerland, assignor to Gebr. Staubli, Horgen, Switzerland. Filed Dec. 13, 1920. Serial No. 430,358. 6 Claims. (Cl. 112—21.)



4. In a book fastening machine, a movable machine table, a stationary auxiliary table, a slide block slidable over both tables, a stationary rod on which the slide block is slidably mounted, a compression spring mounted on said rod, a flexible tensile device, grooved rollers for guiding the tensile device, a rocking lever with antifriction roller, and a cam for operating said rocking lever, one end of the tensile device being connected to the slide block, and its other end being connected to the rocking lever.

1,458,027. CONTAINER CAP. PAUL EMILE BODY, Walkerville, Ontario, Canada. Filed Apr. 15, 1922. Serial No. 553,302. 1 Claim. (Cl. 215—38.)

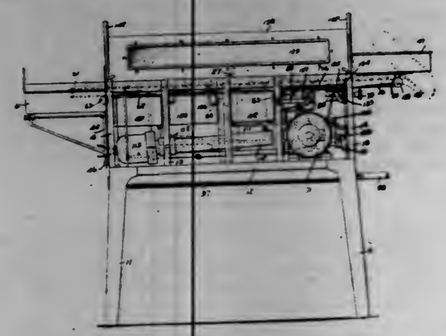
A container cap comprising a conical shaped member having its widest portion flared inwardly and extended

downwardly therefrom to fit the neck of a bottle, a metallic rim arranged above the flared portion and soldered to the inner sides of said conical shaped member, a



rubber gasket pressed into said metallic rim for holding the conical shaped member in an upright and firm position upon the top of a bottle.

1,458,028. GLASS-WASHING MACHINE. FRED T. BURNHAM, Newton Center, Mass. Filed July 16, 1921. Serial No. 485,224. 7 Claims. (Cl. 141—3.)



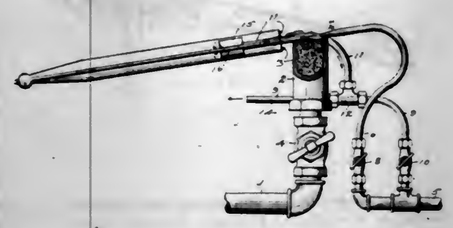
1. A washing machine of the character set forth including a plurality of upwardly directed spray heads, superposed means for conveying the articles to be washed thereover, a water supply means directly connected with the first and last spray heads for supplying and discharging water therefrom, independent means respectively connected with the water supply and with the second spray head and the next to the last spray head for respectively mixing a cleansing and a sterilizing agent with the water received thereby to supply and discharge cleansing and sterilizing solutions from the second spray head and the next to the last spray head respectively, a means of connection between the water supply and the central spray head having a heating means interposed therein for supplying and discharging hot water from said central spray head, and means for receiving and conveying the waste water from the first, central and last spray head away from the machine.

1,458,029. SAFETY PIN. JAMES H. CARGILL, Jersey City, N. J. Filed July 7, 1922. Serial No. 573,274. 1 Claim. (Cl. 24—159.)



A safety pin comprising a pair of legs having hinged connection with each other at one of their ends, said hinged connection operating to normally effect relative separation of the opposite free ends, a hooked pointed terminal at the free end of one leg and a complementary looped terminal at the free end of the opposite leg having a bight portion adapted to engage under and embrace the hooked pointed terminal of the other leg for maintaining the free ends of the legs in closed relation, one of the leads of said looped terminal being disposed over the pointed terminal for covering and protecting the same.

1,458,030. GAS JET. LEE F. CHANEY, Springfield, Ohio, assignor to The Cheney Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Nov. 12, 1920. Serial No. 423,657. 13 Claims. (Cl. 49—53.)



4. The combination with a burner of a supply conduit for air under pressure, a branch conduit leading therefrom discharging across the burner to afford a jet flame, a second branch conduit discharging to atmosphere, exhaust conduit extending into proximity with the point of operation of the jet flame and communicating with the last mentioned branch conduit, an injector fitting at the intersection of said exhaust conduit and the branch conduit whereby the discharge of air to atmosphere thru the branch conduit will induce a suction thru the exhaust conduit to withdraw heated air and gases from the point of operation.

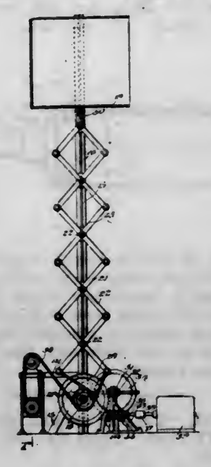
1,458,031. SECTIONAL TIRE-CARRYING RIM. JAMES C. COOPER and JOHN J. SIGRIST, Altoona, Pa., assignors of one-fifth to Frank E. Shaffer, Altoona, Pa. Filed Nov. 7, 1921. Serial No. 513,435. 1 Claim. (Cl. 301—35.)



A two part demountable rim, each part being endless and having a base portion and a tire retaining flange, the base portion of one part being rabbeted externally, the rabbet having alternating notches and projections, the other part being rabbeted internally and the rabbet being provided with alternating notches and projections, the

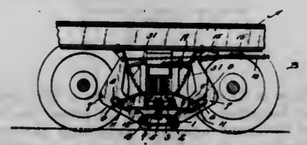
two inner parts being thus made to permit the base portions to overlap and the inner free edges of each base portion being provided with notches and projections fitting the said structure of the rabbeted portions, and means to secure the parts together.

1,458,032. ELEVATOR. JOSEPH G. CORNELL, Brooklyn, N. Y. Filed July 1, 1922. Serial No. 572,171. 16 Claims. (Cl. 187—18.)



5. An elevator, comprising a frame, a lazy tongs system and a cage mounted in the frame, a flexible member attached to each of the lower bars of the lazy tongs system, a weight carried by the flexible members serving as a balancing means, equalizers attached to the flexible members to take up the differences in length of the same, and means for operating the lazy tongs system through the flexible members.

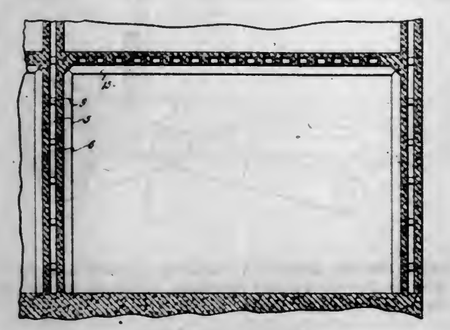
1,458,033. AIR BRAKE. HARVEY L. CULLISON, Baltimore, Md. Filed Oct. 19, 1920. Serial No. 417,936. 3 Claims. (Cl. 188—41.)



1. A brake mechanism for railway cars comprising the combination with a car truck including a stationary crossbar, cross arms at each end of the crossbar, an angular lever supported at each end of the cross arms and having both a pivotal and sliding movement laterally thereon, track-engaging brake shoes pivotally suspended from between the lower adjacent terminals of the said levers, and actuating means connected with the upper terminals of the said levers.

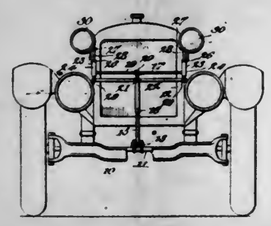
1,458,034. MOLD. MICHAEL JAMES DAVIN, Danville, Ill. Filed Dec. 9, 1922. Serial No. 605,899. 1 Claim. (Cl. 25—131.)

A building form consisting of inner and outer pairs of sections having their inner pairs spaced apart to form an air space and the inner sections having inclined corners to make the corners of the building of great thickness, means for tying the two parts of each wall together, such means consisting of tie members having enlarged ends which are embedded in the walls, said



members having nut members therein and tie rods having threaded parts engaging the nut members for tying the outer forms in place.

1,458,035. AUTOMOBILE LIGHT. MAGGIE THOMPSON DAVISON, Nashville, Tenn., and CHARLES WILES THOMPSON, Chicago, Ill. Filed Dec. 6, 1921. Serial No. 520,378. 2 Claims. (Cl. 240—62.)

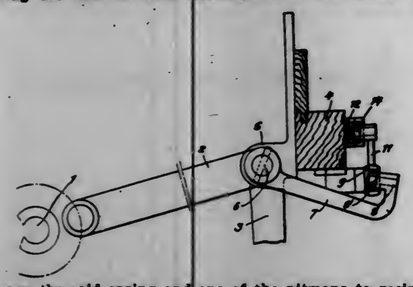


1. In a device of the class described, the combination with a steering rod, a link secured thereto, an offset rod having one end freely operable by said link, said offset rod being vertically adjustable, a forwardly extending rod connected to said offset rod and operable thereby, a transverse bar connected to the front of said forwardly extending rod, rearwardly extending rods connected to the ends of said transverse rods and having a portion bent upwardly for the reception of lamp holders, the said lamp holders operable by said bar, a radiator, brackets secured to said radiator and having bearings for freely supporting said lamp holders and auxiliary lamps adjustably supported by said lamp holders.

1,458,036. DEVICE FOR RELEASABLY LOCKING THE LOOSE REEDS OF POWER LOOMS. RUDOLF DERRER, Ruti, Switzerland, assignor to Maschinenfabrik Rüti, formerly Caspar Honegger, Ruti, Zurich, Switzerland. Filed Apr. 5, 1922. Serial No. 549,764. 5 Claims. (Cl. 139—77.)

1. In a power loom, in combination, a lay, means for oscillating the lay including a plurality of pitmans, a loose reed capable of being locked, a reciprocating bar on the lay, a pivotally mounted bar for clamping the loose reed to the lay, bolts carried by the clamping bar and passing transversely through the lay for coupling the clamping bar to the lay, means carried by the reciprocating bar and cooperating with the bolts to secure the same

in the coupling position, a spring acting upon the reciprocating bar and the said securing means, and means be-



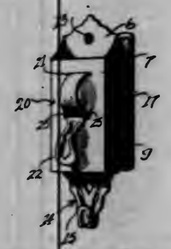
tween the said spring and one of the pitmans to reciprocate the bar in opposite directions, substantially as and for the purposes set forth.

1,458,037. WRENCH. ORVILLE H. DICKEY, Williamstown, Mo. Filed Dec. 7, 1921. Serial No. 520,516. 5 Claims. (Cl. 81—151.)



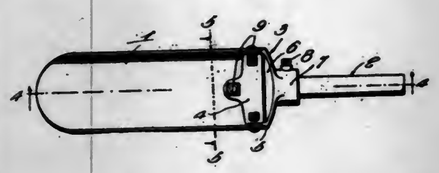
1. In a device of the class described, the combination of a handle including a jaw rigid with said handle, a movable jaw, a lever pivotally connected to said handle for movement in a plane transversely of the plane of movement of said movable jaw, and adjustable interlocking means on said movable jaw and lever, said lever being so positioned within said handle as to lie within the outer hand engaging surfaces thereof.

1,458,038. SMOKER'S APPLIANCE. GEORGE S. EARDLEY, San Jose, Calif. Filed Sept. 7, 1921. Serial No. 499,061. 4 Claims. (Cl. 206—30.)



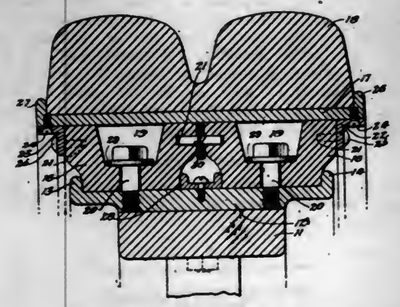
1. A device of the class described comprising, a match holder having a back with means for hanging the device from a supporting structure, a match scratching surface along one side of the holder, a clamping device mounted to the front of the holder and a hook at the bottom of the device, said holder, match scratching surface and hook being formed from a single piece of light sheet metal with ears struck from the thickness of the face of the holder to provide a pivoted mounting for the clamping device substantially as described.

1,458,039. BORING SPADE. WILLIAM EIERMANN, Brooklyn, N. Y. Filed Jan. 20, 1921. Serial No. 438,700. 3 Claims. (Cl. 294—55.)



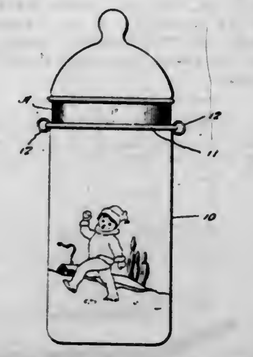
1. A tool of the class described comprising a substantially channel-shaped shovel blade, and a connector for a handle including a transversely curved attaching flange with which one end of the blade is detachably connected, and an integral angularly disposed portion extending across one end of the blade and constituting a back, whereby to form a scoop.

1,458,040. TIRE. CHARLES ESCHER, Jersey City, N. J. Filed Apr. 21, 1922. Serial No. 555,815. 8 Claims. (Cl. 152—36.)



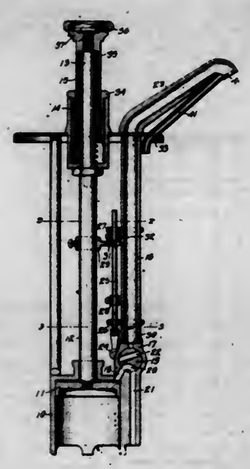
8. As a new article of manufacture, a tire assemblage of the class described, comprising an inner rim having a plurality of threaded openings extending through it, a tire for mounting on said inner rim comprising a plurality of annular cushions having side walls flaring outward from the inner face and having a plurality of countersunk openings extending radially therethrough, screw bolts projecting through said countersunk openings and engaging in said threaded openings in the inner rim attaching the cushions to said rim, an annular channel member mounted on said inner rim between the bases of said annular cushions for spacing them, and an annular ring mounted between the inner edges of said annular cushions, studs carried by said annular ring engaging said annular cushions to prevent movement of one relative to the other, an outer rim mounted on said cushions, annular flange members removably attached to said outer rim for retaining said rim from lateral movement with respect to the cushions, and means in conjunction with said annular flange members for engaging the cushions to prevent circumferential movement of the outer rim on said cushions, and a tread carried by the outer rim.

1,458,041. NURSING-BOTTLE COVER. PHILOMENE FERRIS, Westwood, Calif. Filed Feb. 3, 1922. Serial No. 533,907. 4 Claims. (Cl. 215—11.)



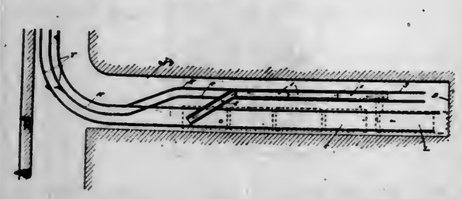
1. A protective covering device for nursing bottles comprising a pouch of flexible material closed at one end and having its other end open and formed with a bead providing reinforcing means, and a storage pocket upon one side of the pouch.

1,458,042. SIRUP PUMP. JOHN B. FLETCHER, Louisville, Ky., assignor, by direct and mesne assignments, of one-eighth to John D. Fletcher, one-fourth to Lee Lewis, one-sixteenth to L. M. Fletcher, and one-sixteenth to Minnie L. Fletcher, all of Louisville, Ky. Filed Aug. 30, 1921. Serial No. 497,013. 4 Claims. (Cl. 221—103.)



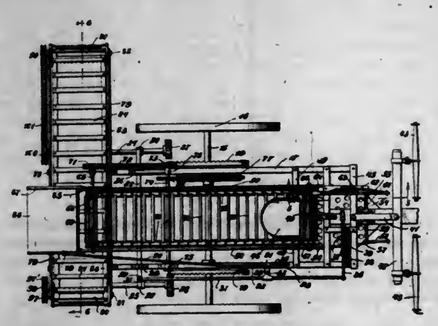
1. A sirup dispensing pump for fountain and such like uses comprising a cover for a sirup container, a depending annular flange on the cover fitting closely to the top of the container, depending members rigidly secured to the cover, a cylinder at the lower end of said members and rigid therewith, an outlet passage in one of said members leading out through said cover, a piston in the cylinder, an inlet passage in the wall of the cylinder, and in line with said outlet passage, a lateral passage connecting them with the interior of the cylinder, a rotary valve at the intersection of said passages, and means on the cover for operating the piston and the valve, substantially as set forth.

1,458,043. METHOD OF AND APPARATUS FOR LOADING MATERIAL. FRANK S. FOLLANSBEE, Grant Town, W. Va. Filed Nov. 26, 1921. Serial No. 517,958. 4 Claims. (Cl. 198—92.)



1. A conveyor comprising a plurality of line sections arranged to deliver material from one to another, the delivery end of one section being positioned above the receiving end of the next adjacent section in line, each of said sections embodying an endless conveyor belt and means for imparting travel thereto, side plates extending longitudinally of the conveyor stretch of the belt, the delivery end of one section being spaced from the adjacent ends of the side plates of the other section to permit of relative displacement of said sections in a lateral direction, and plate sections slidably associated with the side plates and adjustable to position spanning the space between the delivery end of one section and the side plates of the next section.

1,458,044. PEANUT HARVESTER. WILLIAM W. FORD, Avinger, Tex. Filed Jan. 10, 1920. Serial No. 350,659. 1 Claim. (Cl. 55—135.)



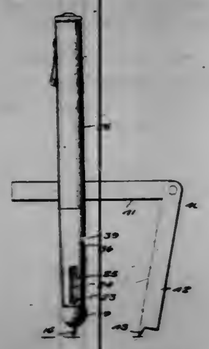
In a peanut harvester, a wheeled frame, an inclined endless elevator supported thereby and operated by the wheels of the frame, a shovel at the forward end of the elevator, a conveyor arranged right angularly with respect to the elevator, disposed therebeneath and supported at the rear of the frame, said conveyor having one of its ends disposed a further distance away from the elevator than its other end, means operated by the wheels of the frame for imparting motion to the conveyor in either of two directions, means controlling the direction of travel of the conveyor, a chute having a cut-out portion to provide projecting sides which are hingedly supported on the frame of the elevator and whereby nuts and vines raised by the elevator may be delivered through the said cut-out portion of the chute on to the conveyor, means supporting the chute in such position, and means for swinging the chute to a downward inclination to receive thereon the nuts and vines from the elevator to deliver said nuts and vines to the rear of the conveyor, and means sustaining the conveyor in such position.

1,458,045. CALCULATOR. WILLIAM MORRISON FRASER, Perth Amboy, N. J. Filed Apr. 15, 1922. Serial No. 553,136. 3 Claims. (Cl. 235—88.)



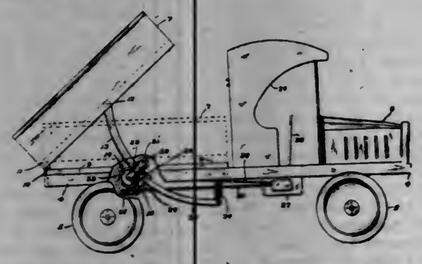
1. In a calculator, a disk ruled to provide a plurality of concentric graduated circles, a radially disposed indicating arm ruled with transverse arcuate lines coinciding with the circles, said arm adapted to be read simultaneously upon the graduations of the two outer circles, and the graduations of any one of the inner circles to indicate on the inner circle the equivalents in weights and measures of a liquid when its density is indicated on the outer circles.

1,458,046. COMBINATION INSTRUMENT. DANIELE GARLATTI, Iroquois Falls, Ontario, Canada. Filed Dec. 6, 1921. Serial No. 520,375. 7 Claims. (Cl. 33—158.)



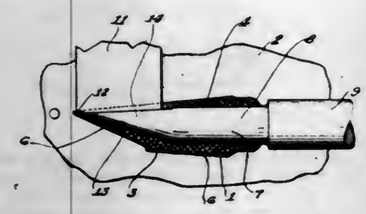
1. A combination instrument embodying a pencil unit, a beam carrying unit, means whereby a compass or caliper beam may be adjustably secured to the beam carrying unit and means for removably securing the pencil and beam carrying units together.

1,458,047. DUMP WAGON. JOSEPH GASSER, Trenton, N. J., assignor to New Jersey Twin Hoist Company, a Corporation of New Jersey. Filed Jan. 6, 1922, Serial No. 527,413. Renewed Apr. 19, 1923. 6 Claims. (Cl. 298—21.)



1. The combination with a vehicle understructure and a superposed body hinged to the rear end thereof of an arcuate rack pivoted beneath and intermediate the ends of said hinged body, an arcuate guide supported from the vehicle, a gear housing member, an arcuate guide supported on said gear housing in which said rack is adapted to telescope, means for moving said arcuate rack for effecting the inclination of said hinged body to dumping position and vice versa, and means for locking said racks as the hinged body reaches the limit of its upward movement.

1,458,048. MOLD FOR FORMING SAXOPHONE MOUTHPIECES. ARCHIBALD P. GRAHAM, Elkhorn, Wis. Filed June 10, 1922. Serial No. 567,312. 4 Claims. (Cl. 18—5.)



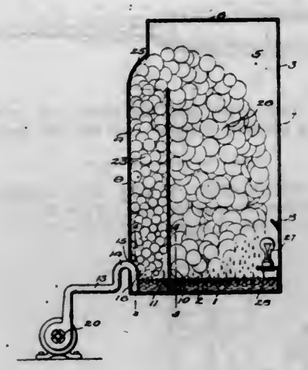
1. The combination with a die cast mold for forming saxophone mouthpieces, of a metal core removably inserted into said mold and being shaped to provide the interior configuration of a saxophone mouthpiece, said core having a reduced throat forming end, and a metal plunger adapted for insertion into said mold and for resting upon said reduced end to provide the throat opening.

1,458,049. SWING. EUGENE GRIESHABER, Ridgewood, N. Y., assignor of one-half to Michael Scheckenbach, Ridgewood, N. Y. Filed Mar. 24, 1922. Serial No. 546,394. 1 Claim. (Cl. 155—59.)



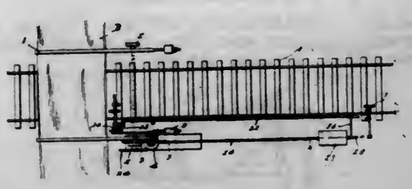
A device of the character described comprising a frame, a swing pendently mounted in the frame, a stud fixed to the frame and projecting outward, a curved spring arm having a depending elongated loop integral with it mounted on said stud, a crank arm having a stud fixed thereto, said stud making sliding engagement with the elongated loop, and a spring motor for operating the crank arm to operate the spring arm.

1,458,050. ADVERTISING DEVICE. FRANK R. CHESTER, Asbury Park, N. J. Filed Aug. 28, 1922. Serial No. 583,758. 7 Claims. (Cl. 40—126.)



6. In an advertising device, in combination, a tank, a bubble chamber open at the top supported therein, an opening at the lower end of the bubble chamber below the water level in the tank, means for forcing air under pressure into the bubble chamber below the water level therein, and means adjacent the lower end of the bubble chamber for bursting the bubbles in the tank.

1,458,051. AUTOMATIC GRADE-CROSSING BLOCK. WILLIAM LEE GRIFFIN, Dallas, N. C. Filed Sept. 16, 1922. Serial No. 588,672. 3 Claims. (Cl. 246—272.)



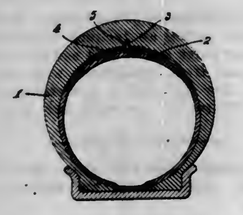
1. In combination with a barrier for a railroad crossing, a cylinder, a piston therein connected with the barrier, a cylinder placed at each side of the crossing, pipes connecting the cylinders together, said cylinders containing a fluid, a piston in each of the other cylinders, a spring for forcing each of said pistons forwardly, latch means for holding the pistons in retracted position, means on the train for releasing the latch means so as to permit the springs to force the pistons forwardly and thus expel the oil from the track cylinder into the gate cylinder and means located adjacent the crossing and actuated by the train for returning the parts to normal position.

1,458,052. HAIR CURLER. WALTER C. GRUSS, Pittsburgh, Pa. Filed Oct. 16, 1922. Serial No. 594,920. 10 Claims. (Cl. 132—41.)

10. A hair curler of the character described comprising a plurality of independent curlers arranged in end to end relation, said curlers being slightly spaced apart, flexible connections between the adjacent curlers, each curler including a tubular body portion, a clamping bar pivoted at one end of the body portion and designed to partly embrace the latter when arranged parallel therewith in clamping position, and resilient extensions projecting from said clamping element and designed to engage the body of the curler to hold the parts fixed relatively when in use.

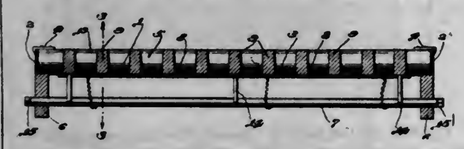


1,458,053. PATCH. WILLIAM G. HANDLY, St. Albans, Vt. Filed Feb. 20, 1922. Serial No. 538,031. 1 Claim. (Cl. 152—24.)



A self-vulcanizing boot for tire casings comprising a flexible member which is arcuate in both longitudinal and transverse section, thickest at its center and feathered at its ends and edges, said boot being made up of layers of self-vulcanizing rubber material and having embedded between the layers the heads of pointed elements, said elements passing through the outer layers and being disposed in spaced relation at the center of the boot, and the outermost layer of the boot being centrally formed with a longitudinally extending rib through which the pointed elements pass and said rib being of a less length than that of the boot.

1,458,054. MOLD FOR CORNCRIB STAVES. ALVIN HEMPHILL, Joliet, Ill. Filed Dec. 13, 1921. Serial No. 522,072. 6 Claims. (Cl. 25—41.)

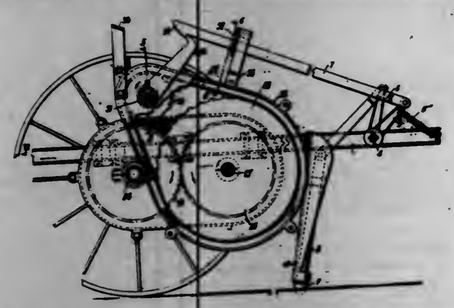


1. In a mold for forming concrete building blocks or staves, a body including a bottom provided with a plurality of longitudinally spaced openings, a plurality of cores for insertion through said openings, means for connecting said cores, and means for synchronously moving the cores into or out of said mold, strips extending longitudinally along the edges and within said mold, one of said strips provided with a concave inner surface and the other being provided with a convex inner surface.

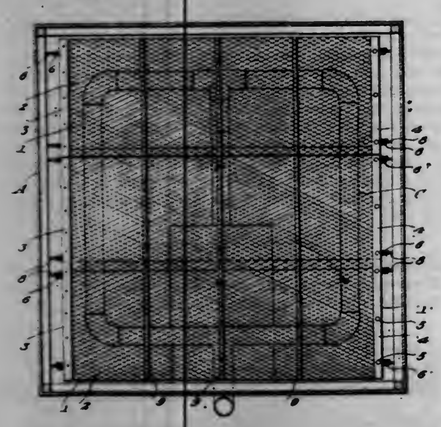
1,458,055. CHECKROW CORN-PLANTER ATTACHMENT. THOMAS HIGGINS, Davenport, Iowa. Filed Dec. 15, 1919. Serial No. 345,048. 2 Claims. (Cl. 111—30.)

1. In a check row planter attachment, the combination with a frame, a rock shaft supported thereby, marking mechanism adapted to be actuated by said rock shaft, an

operating bar carried by said rock shaft and extending substantially longitudinally of said frame, said bar provided with a curved outer end, and having an offset portion constituting an abutment, a trip arm mounted upon said frame, means for swinging said trip arm, said trip arm adapted to engage the outer end of said bar for moving the same longitudinally of said frame, an upstanding releasing member having an inclined upper face for engaging the curved outer end of said bar and automatically releasing the same from engagement with said trip arm when said bar has travelled a predetermined distance, and means to return the operating bar to an operative position.



1,458,056. SCREEN. JONAS N. HILL, Deep Run, N. C. Filed July 22, 1921. Serial No. 486,916. 1 Claim. (Cl. 34—19.)



A shield for the heating pipes of tobacco barns comprising a section of wire mesh, superimposed strips having the ends of each section secured therebetween, bolts passing through the strips of one end, whereby the screen may be adjustably associated therewith, coil springs carried by the strips for securing the sections at the side walls of the barn and to provide a cushioning means for the falling tobacco leaves, cross strips secured to each section to prevent sagging of the screen and hooked rods connected with some of said cross pieces and the cross beams of the barn respectively.

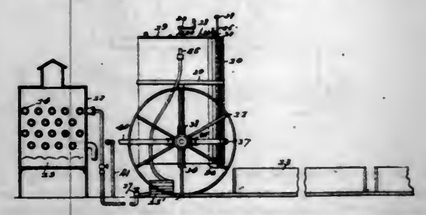
1,458,057. FISHING ROD. WILLOUGHBY F. HOLLISTER, Cowen, W. Va. Filed Jan. 16, 1922. Serial No. 529,637. 2 Claims. (Cl. 43—23.)

1. A fishing rod butt comprising an elongated tube serving as a socket within which the larger end of a rod is secured, a sleeve secured externally upon said tube and formed with a reel seat and a reel securing ring, a receptacle secured within and projecting beyond the open end of the sleeve and having one side open, and a handle



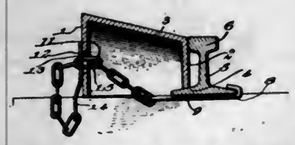
having one end closed and the other end open and threaded and normally engaged upon the free end of the sleeve.

1,458,058. STOCK-FEED MIXER AND DISPENSER. HENRY HOPPES, Wilsonville, Nebr. Filed Dec. 17, 1920. Serial No. 431,520. 1 Claim. (Cl. 119—51.)



A stock feed dispensing apparatus embodying a portable tank, means for introducing a heated moistening agent into the latter, said means comprising an inlet connection disposed adjacent the top of the tank and formed with a terminal discharge mouth, a float valve operatively disposed with reference to said discharging mouth to close the latter upon the attainment of a certain level of the moistening agent, an agitator disposed adjacent the bottom of the tank, exposed manually operating means for said agitator, and a valve controlled discharge in the bottom of said tank.

1,458,059. CAR-REPLACING DEVICE. WILLIAM A. HUBBARD, Hoquiam, Wash. Filed Jan. 13, 1923. Serial No. 612,522. 4 Claims. (Cl. 104—265.)



1. A car replacing device comprising a replacer body comprising segmental shaped vertical side walls and an arcuate top connecting said side walls, one of said side walls being of less height than the other and terminating at its lower edge at a higher level than the horizontal plane of the lower edge of the second side wall, whereby the first side wall is adapted to rest upon one side of the base flange of a rail when the second side wall rests upon a tie upon which the rail is supported, the said second side wall having an opening formed therethrough, and means engaging with the base flange of the rail at the side thereof remote from the body and extending transversely of said body through the opening in the second side wall for holding the body clamped against the rail.

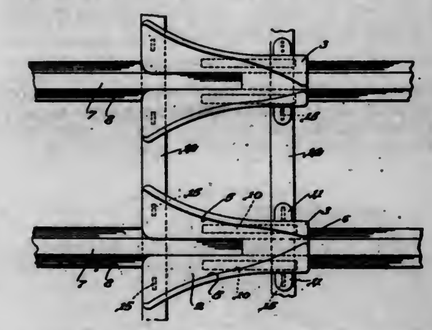
1,458,060. MINE ALARM INSTRUMENT. CHARLES W. HUAL, Nanty Glo, Pa., assignor to Miners Supply and Equipment Company, Johnstown, Pa., a Common Law Trust Estate. Filed Dec. 6, 1921. Serial No. 520,245. 5 Claims. (Cl. 116—67.)

5. A device for the purpose set forth comprising a standard, a laterally disposed arm carried thereby, a sounding element secured to said arm, a bell crank lever pivoted to said standard and including a vertical and a horizontally disposed arm, said horizontally disposed arm sufficient in proximity to and adapted when shifted to actuate said sounding element, a pressure exerting member



carried by the vertical arm of said lever and adapted when pressure is applied thereto to shift said lever causing thereby the operation of the sounding element by the horizontal arm of the lever, means to provide for the adjusting of said pressure operated element, and means to provide for adjusting the length of said standard.

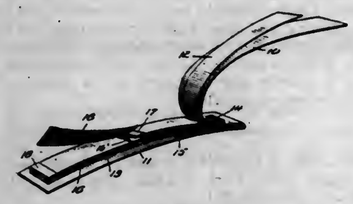
1,458,061. RERAILER. ELMER G. JACKSON, Elmhurst, Ill. Filed Nov. 8, 1921. Serial No. 513,774. 1 Claim. (Cl. 104—270.)



A rerailer comprising a body having its top provided with compound curved edges merging into a depression at the head end of the body, flanges projecting laterally from the body at a point below said depression, said flanges having a flat top surface horizontally disposed, and spurs projecting downwardly from the bottom surfaces of said flanges, said flanges adapted to rest upon a tie and said spurs to be forced into the tie by striking against the top surface of the flanges.

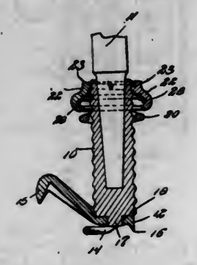
1,458,062. DENTIST'S ARTICULATING PAPER. FREDERICK W. KEITH, Belfast, Me., assignor to S. H. Reynolds Sons Co., Boston, Mass. Filed June 17, 1921. Serial No. 478,327. 4 Claims. (Cl. 282—28.)

1. An impression sheet or strip for dental work, comprising a length of prepared carbon paper, and finger tabs of a non-carbon paper secured on opposite sides of the length of carbon paper, one of said tabs being disposed at the transverse center of the latter and the other at



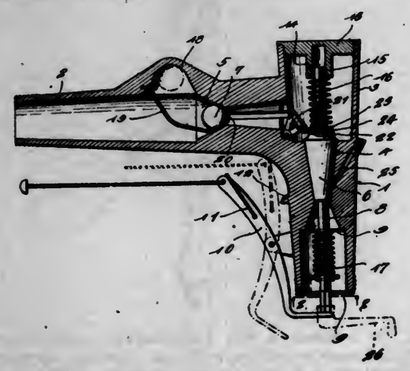
one end of the same, the length of carbon paper being adapted to be severed immediately adjacent the centrally disposed tab at the side thereof nearest the tab at the end of the length of carbon paper.

1,458,063. MOP HOLDER. CHARLES E. KOESTER, Jr., Koester, Mo., assignor of one-half to Edwin A. Darrow, St. Louis, Mo. Filed Apr. 29, 1921, Serial No. 465,441. Renewed Apr. 21, 1923. 3 Claims. (Cl. 15—153.)



1. A mop holder comprising a handle-receiving ferrule, a guide bar at one end of the ferrule, a gripping member slidable in guide openings formed in said guide bar to provide a clamp, a grooved nut threadedly engaging the said ferrule, and a ring loosely encircling the said ferrule and having outstanding projections, certain of which are connected to the said gripping member and certain others engaged in the groove in the said nut whereby the ring is swiveled to the latter.

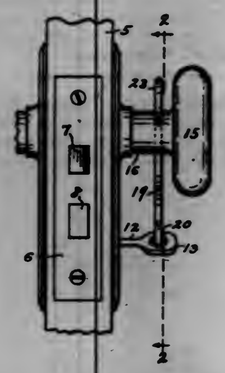
1,458,064. BLOW-OFF VALVE. ANTON KUSHLAN, Brownsville, Pa. Filed Nov. 22, 1920. Serial No. 425,812. 8 Claims. (Cl. 277—27.)



5. A blow-off valve for the purpose set forth comprising a body including two communicating passages having valve

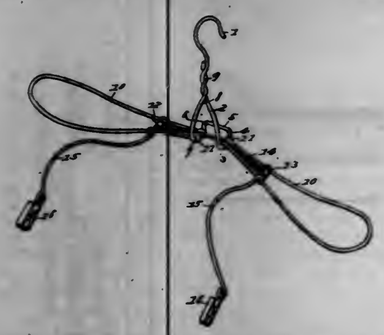
seats therein, check valves for co-action with these seats, said valves being adapted to be unseated by the water when filling the boiler, and adapted to be manually unseated when draining the boiler or relieving it of excessive steam, a rod carried by one of the valves, and means between said rod and other valve for unseating the latter, said means being effective when draining the boiler or relieving it of steam and having detachable connection with said rod to permit said one valve to be removed from the body for making repairs.

1,458,065. KEY FASTENER. EMIL H. LARKINS, Cleveland, Ohio. Filed Mar. 2, 1922. Serial No. 540,439. 2 Claims. (Cl. 70—65.)



1. A key-fastener consisting of a single piece of wire which has a bowed and resilient central portion arranged to embrace the upper portion of and seat on the shank of a door-knob and has one end portion thereof arranged below said shank-embraceable portion and bent to form a hook arranged to extend under and thence upwardly through the bow or handle of a key to be fastened, said piece of wire having its upper or opposite end portion bent to form a handle arranged largely above and extending in the main circumferentially of the aforesaid shank-embraceable portion.

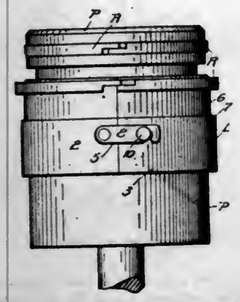
1,458,066. COAT ADJUSTER. EDWARD P. LE COMPTE, Park City, Utah. Filed June 14, 1922. Serial No 568,113. 4 Claims. (Cl. 45—13.)



1. The combination with a coat hanger having a vertically arranged suspending hook and oppositely extending substantially horizontal support members adapted to be placed within the shoulder portions of a coat, of forwardly extending arms having their rear ends connected to the oppositely extending support members and provided at their forward ends with fastening members adapted to detachably engage the lapels of a coat supported by said hanger.

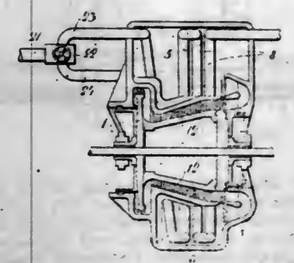
3. A combination as claimed in claim 1 in which the oppositely extending support members are pivotally connected to the suspending hook, and resilient means connecting said support members and adapted to yieldingly maintain the same in a substantially horizontal position.

1,458,067. PISTON-RING TOOL. MICHAEL S. LINTON, Memphis, Tenn. Filed Oct. 13, 1921. Serial No. 507,446. 2 Claims. (Cl. 29—86.4.)



1. A piston ring tool comprising a hollow cylindrical body formed with two outer diameters thereby providing a shoulder intermediate the end of said body and further providing said body with a reduced portion, that part of said body of smaller diameter forming a piston ring receiving portion and said shoulder limiting the rearward movement of the rings with respect to said body when mounted on said portion of smaller diameter, said body portion formed of two semi-cylindrical sections hinged at one side and detachably connected together at the other side and with the edges of one section abutting throughout against the edges of the other section.

1,458,068. MEANS FOR PREVENTING FORMATION OF RUST IN TURBINES BEING AT REST. FREDRIK LJUNGSTRÖM, Brevik, Lidingon, Sweden. Filed Mar. 23, 1921. Serial No. 454,950. 9 Claims. (Cl. 253—1.)



1. In combination a turbine and its casing, and a heating element placed within the casing and arranged to heat the gaseous medium in the turbine, so as to prevent the formation of rust.

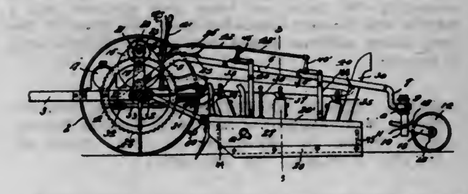
1,458,069. FASTENER FOR AUTOMOBILE CHAINS. WILLIS LONDON, Franklin, Ky. Filed Feb. 14, 1920. Serial No. 358,771. 3 Claims. (Cl. 24—230.5.)

1. A fastener for chains comprising a body portion having a circuitous slot extending inwardly from one edge thereof, a hook projecting laterally into said circuitous slot, and a shoulder extending outwardly from the end of the body portion in opposite direction from the hook, in combination with a link which is less in



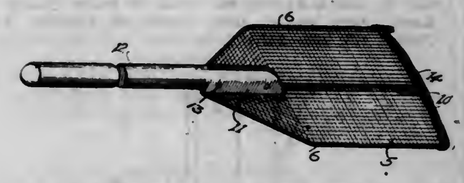
length than the distance between the ends of the oppositely disposed hook and shoulder, whereby the link is prevented from passing the ends of the hook and shoulder at the same time.

1,458,070. INSECT EXTERMINATOR. WILLIS C. LONG, CHARLIE P. LONG, and JOSEPH M. STEPHENS, Hastings, Okla. Filed Jan. 24, 1922. Serial No. 531,437. 7 Claims. (Cl. 43—144.)



5. In an insect exterminator, a wheeled frame designed to pass over growths containing insects and their larva, a burner carrying sled supported from the frame and arranged directly over the growth, the runners of the sled being hollow and having knife edges, means for delivering a fuel to the burners which, when ignited is directed downwardly between the runners of the sled, means for forcibly delivering currents of air through the runners and the top of the sled, means confining the flame between the runners, and means for extinguishing the flame during the passage of the sled over the burning growth.

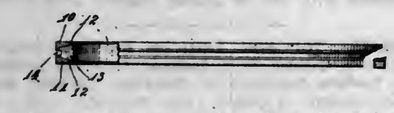
1,458,071. INSECT-DESTROYING DEVICE. MITSUTARO NAKAMURA, Chico, Calif. Filed Dec. 31, 1921. Serial No. 526,221. 1 Claim. (Cl. 43—137.)



A device of the character described comprising a flat rectangular frame, an upstanding fold formed in said rectangular frame, said fold causing a tapering of said frame throughout the length of the fold, a reenforcing strip contacting said fold throughout the length of said fold and continuing in contact with the flat portion of said frame to its opposite extremity, and a bifurcated handle engaging said fold and said strip, substantially as and for the purpose described.

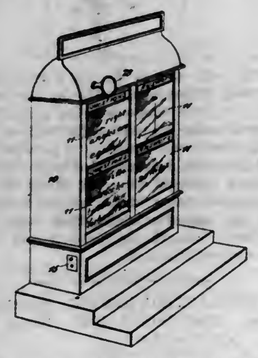
1,458,072. PISTON RING. CHESTER OHLER, Sugar Creek, Mo. Filed Nov. 22, 1921. Serial No. 516,957. 1 Claim. (Cl. 74—109.)

A piston ring of the character described comprising a body section wedge shaped in cross section and having its inner periphery of greater width than the outer, an upper and lower section having their opposed faces beveled to converge outwardly and designed to engage the inclined faces of said body section in a manner so



that the outer periphery of the body section and upper and lower sections are all disposed in the same plane, the body section being heavier and larger than the upper and lower section and having its small periphery provided with an annular groove for the purpose specified.

1,458,073. DISPLAY DEVICE FOR ADVERTISING AND EDUCATIONAL PURPOSES. RAFAEL PADILLA, New York, N. Y. Filed Mar. 11, 1921. Serial No. 451,610. 7 Claims. (Cl. 40—93.)



1. In a device of the class described, the combination of reversely driven shafts, a main driving shaft, clutch mechanism for effecting driving of said main driving shaft by either of said reversely driven shafts, a plurality of rolls driven by said main driving shaft, a flexible strip operable by said rolls, and means supported in said rolls and controllable by said flexible strip to effect operation of said clutch mechanism.

1,458,074. TOOTHBRUSH. ABRAHAM PIKOOS, Baltimore, Md. Filed Mar. 22, 1922. Serial No. 545,810. 1 Claim. (Cl. 15—167.)



In a tooth brush, parallel heads each having bristles, a central and end spacing element integrally formed on one of the heads and interengaging the other head, means

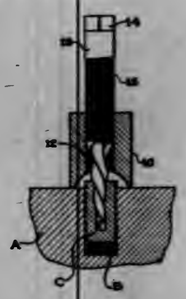
on the last mentioned head engaging one of said spacing elements for connecting the heads, and a short handle pivoted on the central spacing element and in the path of contact with the end spacing elements.

1,458,075. TOP FOR VEHICLE BODIES. CHARLES P. POND, Camden, N. Y., assignor of one-half to George L. Traffarn, Camden, N. Y. Filed Sept. 13, 1921. Serial No. 500,366. 4 Claims. (Cl. 296—23.)



1. A vehicle body open at the top, a separate roof therefor, transversely disposed supports for the front and rear ends of the roof, said supports being permanently hinged at their lower ends to said body and at their upper ends to said roof for permitting a parallel longitudinal raising and lowering movement of said roof; and additional supports beneath the roof along the sides, said additional supports being hinged at one longitudinal edge and free at the opposite longitudinal edge, to swing to a folded position beneath the lowered roof or to upright positions to support the roof.

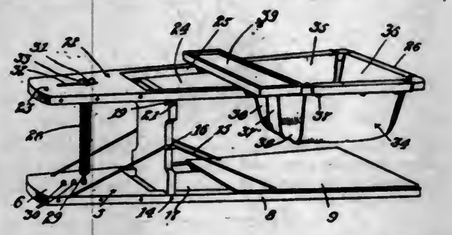
1,458,076. EXTRACTING DEVICE. CLIFTON W. POTTS, Plano, Tex. Filed June 3, 1922. Serial No. 565,529. 2 Claims. (Cl. 81—71.)



1. A tool of the character described comprising a nut member having an angular portion engageable by a turning tool, said nut member having a right hand threaded bore, a right hand threaded shank screwed through said bore and formed with an angular portion engageable by a turning tool, and a left hand cork screw like reamer at the free end of said shank member.

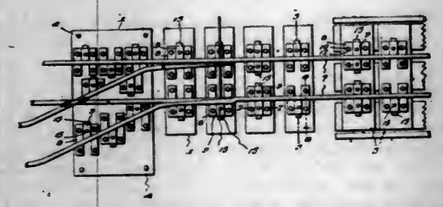
1,458,077. BABY JUMPER. ALBERT T. REID, Leavenworth, Kans. Filed Nov. 29, 1922. Serial No. 604,078. 1 Claim. (Cl. 155—18.)

In a baby jumper, a lower stationary frame embodying a body portion having spaced arms extending longitudinally from one end of said body portion and forming an opening between said arms, an upright provided at its lower end with a tongue extending between said arms within said opening, said upright being provided at its top with a rounded head and spaced substantially vertical slots and an opening extending longitudinally through said rounded head and passing through said slots, a transverse pin passing through said tongue and arms of the lower frame, an upper frame similar to the lower frame and embodying a body portion carrying spaced longitudinal arms at one end thereof, said arms forming an opening therebetween of sufficient width for the reception of a child, the arms of the upper frame resting upon said rounded head, eye-bolts depending from the



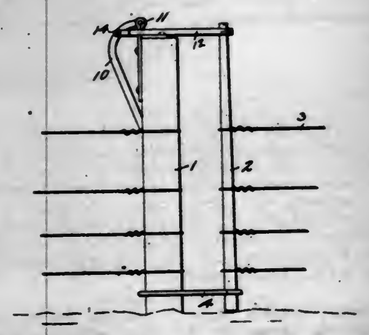
arms of the upper frame and arranged within said slots, a pivot element passing through the longitudinal opening in the head and through said eye-bolts, braces connecting the upright and lower frame, a yielding element connecting the upper and lower body portions, and a flexible seat element suspended from the arms of the upper frame, said last named arms constituting the sides of the seat.

1,458,078. TRACK CONSTRUCTION. JOHN ROBERTS, Elmira, N. Y., assignor of one-half to Carolina Roberts, White Haven, Pa. Filed Oct. 22, 1921. Serial No. 509,470. 2 Claims. (Cl. 238—290.)



1. In combination with a tie plate having spaced slots therein, a casing having outwardly extending base flanges mounted over the slots, a bolt mounted in the casing adapted to engage a track rail, and means securing said casing to the tie through the slots therein.

1,458,079. GATE FASTENER. CECIL P. RUPPE, Oakley, Kans. Filed Mar. 3, 1921. Serial No. 449,413. 1 Claim. (Cl. 292—247.)



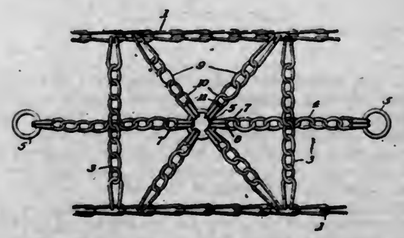
In combination, a fence post, a gate post, a strap comprising a plate having a slot therein and curved adjacent the slot so as to form spaced journals and a retaining ear, means for attaching the retaining ear and the plate to one of the posts, a lever pivotally mounted at one end to the journals of the strap, and a loop pivotally attached to the lever intermediate its ends and adapted to engage the other post.

1,458,080. BRAKE-SHOE SPREADER. EDWARD F. SHIMER and RAYMOND I. FREY, Phillipsburg, N. J. Filed Feb. 6, 1922. Serial No. 534,526. 3 Claims. (Cl. 188—78.)



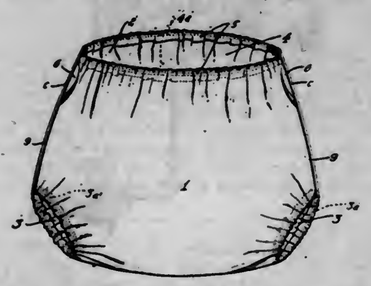
3. As a new article of manufacture a brake shoe spreader for automobile brake operating cams consisting of an elliptical sleeve having a longitudinal V-shaped slot therein whereby said sleeve is adapted for ready expansion onto a brake operating cam and secure retention thereon.

1,458,081. AUTOMOBILE TIRE CHAIN. HARRY SMITH, Scioto Mills, Ill. Filed Feb. 13, 1922. Serial No. 536,240. 1 Claim. (Cl. 152—14.)



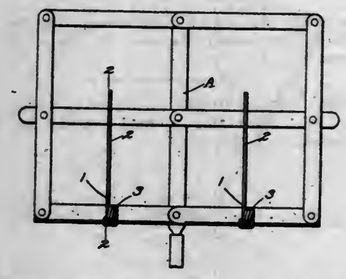
In an anti-skid chain for pneumatic tires, side chains, a circumferential tread chain around the tire disposed centrally between the side chains, said central tread chain being constructed of sections, rings at the confronting ends of the sections, and the end links of the said sections being bent around the rings and projected outwardly to provide calks, angularly arranged pairs of cross chains having their outer links connected to the side chains and their inner links bent around the respective rings and outturned to provide calks, and cross chains overlying the central tread chain and disposed centrally between the opposed pairs of angularly arranged cross chains.

1,458,082. VENTILATED SANITARY GARMENT. JACOB STEIN, New York, N. Y. Filed Dec. 12, 1922. Serial No. 606,456. 5 Claims. (Cl. 128—288.)



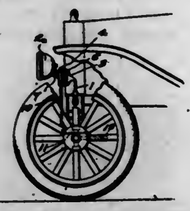
1. A garment comprising a trunk-like body having waist and leg openings, said garment having an opening in each of its side portions, reinforcing strips secured to said body of the garment and extending in a general lengthwise direction across said openings in the sides of the garment.

1,458,083. ATTACHMENT FOR MUSIC STANDS. SPENCER H. STEPHENSON, Center Point, Iowa. Filed July 26, 1922. Serial No. 577,658. 1 Claim. (Cl. 45—61.)



A device of the class described comprising a single piece of material bent to form a straight part, a coil at one end thereof and a double loop connected with the coil and forming a pair of jaws, said loop consisting of a U-shaped part and parts parallel to the legs of the U-part, one parallel part being connected with the coil.

1,458,084. MOVABLE HEADLIGHT. MYRON BURNHAM STROUT, Poland, Me. Filed June 21, 1922. Serial No. 569,905. 1 Claim. (Cl. 240—62.)



In combination with a motor vehicle and its head lamps, a pair of castings carried at the front of the car, a vertically arranged bolt in each casting, a casting connected with each head lamp and having a vertically arranged opening therein for receiving a bolt, a projection arranged on each casting of the lamps and extending into the space within the first mentioned casting, a link having its ends engaging said projections, a rod having its upper end connected with said link and its lower end bent to extend under the vehicle, a plate connected with said bent end, turn buckles connected with the plate, clamps on the steering arms and links connecting the turn buckles with said clamps.

1,458,085. POTATO GRADER. MILTON B. TABOR, Swanton, Vt. Filed Sept. 6, 1918. Serial No. 252,880. 1 Claim. (Cl. 193—31.)

In a potato grader, the combination of a pair of spaced hoppers, means for delivering potatoes of various sizes thereto, an angularly disposed inclined chute secured to the bottom of one of said hoppers, a valve controlling the outlet of said chute, a depending chute secured to the second hopper, a door pivotally secured centrally and longitudinally of the last mentioned chute dividing the same into two parts, means for operating the door to hold the outlets of the chute wholly opened,

partly opened or to close either of the said outlets and to serve as a directing means to the outlet of the other



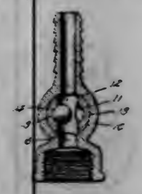
compartment, and a retarding means for the door operating means for holding the door in any of its several positions.

1,458,086. CHAIN HOOK. IGNATIUS L. THIEL, Derrick City, Pa. Filed July 1, 1922. Serial No. 572,143. 2 Claims. (Cl. 24—239.)



1. A chain hook comprising a shank adapted to have one end secured to one end of a chain, a rigid jaw formed on the opposite end of the shank, spaced link receiving seats provided in the rigid jaw and a spring actuated jaw slidingly mounted upon the shank for preventing accidental removal of the link from either seat.

1,458,087. SAFETY VALVE. ROY P. TOOLEY and CHARLES W. JOHNSON, Wichita Falls, Tex. Filed July 8, 1922. Serial No. 573,550. 1 Claim. (Cl. 67—115.)



A valve comprising a valve casing, a rotary valve plug operating therein and having a transverse bore reduced at both ends, a ball valve arranged to operate within the bore, and closing the upper end thereof to prevent the escape of gas when the valve is casually opened, said valve having diametrically opposed recesses communicating with and merging into the bore of the valve and adapted to receive said valve and hold the latter in an out of the way position when the valve is opened, one of said recesses receiving the ball when the plug is turned to a closed position, and each recess being slightly less than one-half of the diameter of the ball in depth for the purpose specified.

1,458,088. SHOE LACE. LEROY F. UNNOLD, Brooklyn, N. Y. Filed May 19, 1922. Serial No. 562,178. 5 Claims. (Cl. 24—143.)



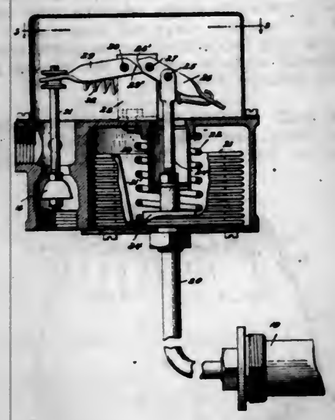
1. For a lace-shoe, an elastic lace, and a device at one end of said lace having an attaching part which grips the lace and lace crimping means for the securement of the free end of the lace to said device.

1,458,089. SCALE ATTACHMENT. FRANK RUSH WAINWRIGHT, Jersey City, N. J. Filed Oct. 7, 1921. Serial No. 506,021. 3 Claims. (Cl. 40—28.)



1. The combination with a weighing scale, of an attachment therefor comprising a casing having a window opening, a rotary drum in said casing, a strip having indicia inscribed thereon secured at one edge of and wound upon said drum, a weight at the free lower edge of said strip, and means operable upon movement of the actuating mechanism of the weight indicating element for rotating said drum in a direction to effect the unwinding of the strip for the display of certain of the advertising indicia through the window opening.

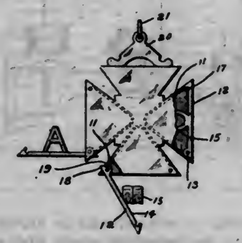
1,458,090. WATER-HEATING APPARATUS. HAROLD EDWARD WALDRON, Highland Park, Mich. Filed Dec. 14, 1921. Serial No. 522,351. 9 Claims. (Cl. 236—48.)



1. In a storage water heater apparatus, in combination, a storage tank, a water heater connected thereto, a thermostat responsive to the temperature in the storage

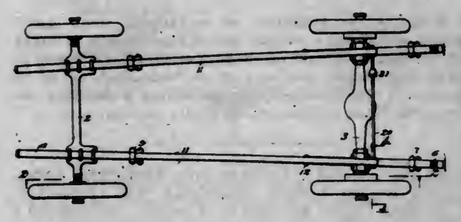
tank, means for supplying gaseous fuel to the water heater including a control valve, and connections between the thermostat and valve whereby the valve is given in closing an initial slow movement and a final quick movement to closed position and is given in opening a quick movement to full open position.

1,458,091. BADGE. EDWARD L. WEED, Providence, R. I., assignor to Potter & Buffinton Company, Providence, R. I., a Corporation of Rhode Island. Filed July 14, 1921. Serial No. 484,742. 3 Claims. (Cl. 40—1.5.)



1. A badge comprising a pair of oppositely-disposed plates shaped to represent the desired insignia and secured together in spaced-apart relation to form a chamber between them, a movable symbol-carrying member for closing the opening between said plates and adapted to be manipulated to expose its symbol and back to house the same in said chamber, a stop for limiting the swinging movement of said member, and a hook carried by said member adapted to engage a pin which connects the spaced arms to secure the said member in closed position, said badge being adapted to be attached to a support.

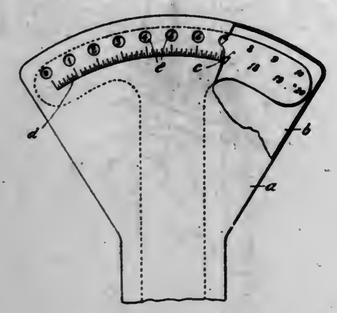
1,458,092. VEHICLE FRAME SUSPENSION. THOMAS WILSON, Indio, Calif. Filed Mar. 27, 1922. Serial No. 547,061. 5 Claims. (Cl. 280—124.)



1. In a vehicle suspension of the character described, a pair of suspension bars, means for connecting the front of the rear spring of a vehicle and the rear end of the front spring of a vehicle to said bars intermediate their length, means for pivotally connecting the front ends of said bars in a fixed position with relation to the front spring, and means for swingingly connecting the rear ends of said suspension bars in respect to the rear spring.

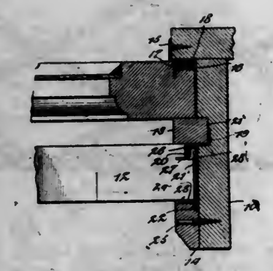
1,458,093. DIAL FOR SCALES. SÖREN WISTOFT, Copenhagen, Denmark. Filed Oct. 7, 1921. Serial No. 506,127. 2 Claims. (Cl. 265—36.)

1. In a scale of the kind on which weighing is possible either from 0–p kilograms or from p to 2p kilograms, a dial, consisting of a front wall, bearing division marks and window holes corresponding therewith, and a rear wall, a movable plate member between the said walls, said member adapted to be moved vertically up and down, on the scale being set to the one or the other of the said weighing modes, on said movable member two rows of figures, corresponding to the said two weighing



modes, said rows of figures so arranged that, when the scale is set for the one mode of weighing, the figures of the one row are visible in said window holes in the front wall whilst the other row of figures is covered, and vice versa, when the scale is set for the other mode of weighing, and the said movable member is in the one or the other of its positions, respectively.

1,458,094. WEATHER STRIPPING. JOSEPH YASSENOVSKY, New York, N. Y. Filed June 17, 1921. Serial No. 478,390. 3 Claims. (Cl. 20—69.)



1. A window construction comprising a window frame, a sash, a window stop, a parting strip, a metal slide secured to said sash and formed with a laterally extended finger, and a member secured to said window frame by said window stop and said parting strip and provided with a run-way for receiving the finger of said slide, said member having tensioning means engageable with said sash irrespective of the changes in size of the same.

1,458,095. BROOM HEAD. GUY DRAKE, Whitman, Nebr. Filed May 24, 1921. Serial No. 472,204. 5 Claims. (Cl. 15—171.)

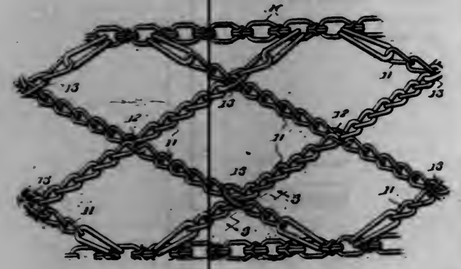
1. A holder for broom heads comprising a socket member provided with piercing prongs thereon adapted to extend into the broom head, a yoke member extending from the socket member, the legs of said yoke member being adapted to lie at opposite sides of the broom head,

a securing band consisting of a pair of members hingedly connected at one of their ends and each adapted to lie



on opposite sides of the broom head and over the ends of said yoke member, and means for securing the ends of said band together tightly about the broom head.

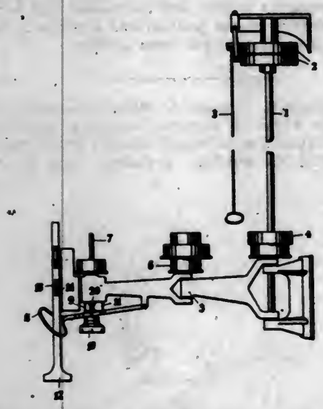
1,458,096. CHAIN. EMERSON E. GARRETT, Wallace, W. Va. Filed Nov. 6, 1922. Serial No. 599,341. 1 Claim. (Cl. 152—14.)



A non-skid chain embodying side chains, diagonally arranged oppositely disposed crossed chains connecting the side chains and arranged in substantially diamond-shaped formation, said crossed chains meeting at spaced points, means for positively connecting the crossed chains at their central meeting points and means connecting said crossed chains at points upon opposite sides of their positively connected points to permit of relative movement upon one another.

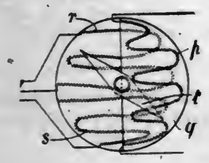
1,458,097. STONE AND LIKE WORKING MACHINE. KARL RUDOLF HAERTING, Berlin, Germany. Filed Mar. 28, 1921. Serial No. 456,137. 2 Claims. (Cl. 25—41.)

1. A radial stone and like working machine, comprising a vertically reciprocating ram, a horizontal operating shaft, a sector mounted on said shaft so as to engage and raise the ram by friction and then let it drop, an acceleration shaft rotating in opposite direction from the operating shaft, pivoted arms holding said acceleration shaft, a friction wheel connected to said latter shaft, tappets connected to the operating shaft so as to co-operate with said arms for rocking the same so as to apply the friction wheel to the ram at the moment it



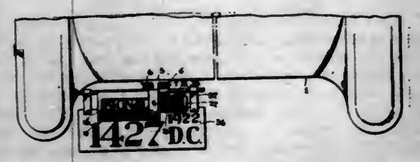
is about to drop, a vertical axially adjustable driving shaft geared to the operating shaft, and a hand lever controlling said driving shaft.

1,458,098. METHOD OR MEANS FOR AMPLIFYING OR OTHERWISE INDICATING SMALL MECHANICAL EFFECTS. ERNEST SYDNEY HEURTLEY, London, England. Filed Apr. 11, 1919. Serial No. 289,337. 12 Claims. (Cl. 175—320.)



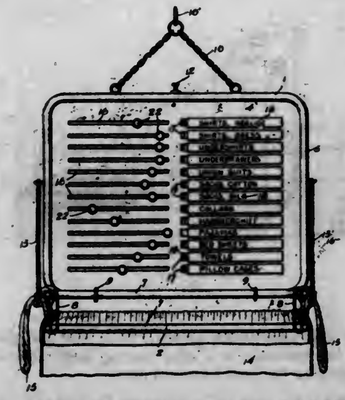
3. Means for indicating or magnifying small movements comprising a current heated conductor, a plurality of juxtaposed electrically conductive wires, and means to vary the relative positions of the conductors so as to produce a difference of potential across a receiving instrument in an additive or cumulative manner.

1,458,099. SIGNAL SYSTEM FOR VEHICLES. WILLIAM WALTER KNIGHT, Birmingham, Ala. Filed Apr. 12, 1922. Serial No. 551,824. 5 Claims. (Cl. 116—43.)



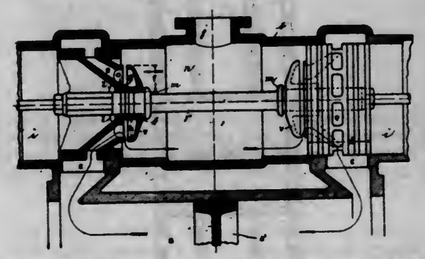
1. In a signal system, a device for giving a plurality of visible signals, and means for operating the signal device to present the visible signals selectively and to actuate a device for producing audible signals coincidentally with the presentation of the visible signals and in such manner that the extent of the audible signal produced varies with the visible signal presented.

1,458,100. LAUNDRY-BAG SUPPORT. ERNEST RUDOLF KNOPF, Greenwich, Conn. Filed Apr. 8, 1921. Serial No. 459,793. 4 Claims. (Cl. 40—28.)



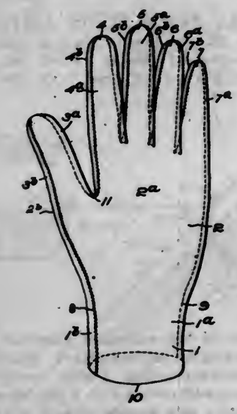
1. A laundry bag support comprising a frame provided with an indicator, a second frame hinged at its lower end to the lower end of the first frame to swing into vertical and horizontal positions, said second frame being provided with a member to which the mouth of a laundry bag is adapted to be secured, and means for holding said frame in a vertical position, whereby when the frame is in a vertical position, the first frame will be concealed by the bag and the articles prevented from falling out of said bag.

1,458,101. PRESSURE-EQUALIZING VALVE FOR PISTON VALVES. HEINRICH KOCH, Hamm, Germany. Filed Nov. 25, 1921. Serial No. 517,769. 1 Claim. (Cl. 121—134.)



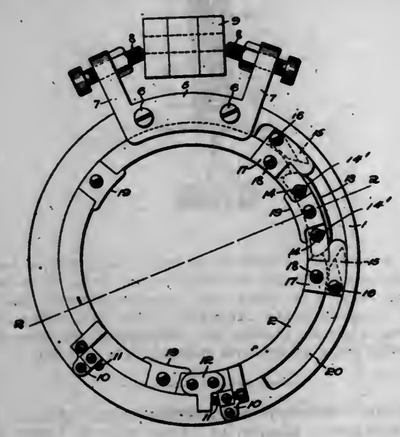
In a steam engine, a valve casing communicating with an exhaust pipe at its ends and having an inlet chamber, a piston valve having two spaced valve bodies connected by a rod, each valve body of the piston valve being provided with passages communicating with the engine cylinder and the inlet chamber of the valve casing, hubs formed on the valve bodies and encircling the connecting rod in spaced relation thereto to afford an annular space between said hubs and the connecting rod, pressure equalizing valves loosely mounted on said connecting rod and coacting with said piston valve bodies to normally close the passages therein, hubs formed on said pressue equalizing valves and being guided in the annular space between the hubs of the valve bodies and the connecting rod, and shoulders on said connecting rod for limiting the opening movement of the pressure equalizing valves, said pressure equalizing valves being automatically opened by the differential action of the pressures in the engine cylinder and the inlet chamber when the pressure of the engine cylinder exceeds that in the inlet chamber of the valve casing and also being automatically opened by the differential action of the pressures in the exhaust pipe and the inlet chamber when a vacuum is formed in the engine cylinder, whereby both ends of the engine cylinder are put into communication with each other and the pressures therein are equalized.

1,458,102. KNITTED GLOVE AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed May 20, 1919. Serial No. 298,458. 17 Claims. (Cl. 66—4.)



1. A knitted glove characterized by the formation from distinct yarns of a tubular blank composed of two sections of fabric united during the knitting thereof by suture seams composed of interknitted terminal loops of said sections, each of said sections of fabric including integrally knitted substantially co-extensive areas of the thumb and digit coverings of the glove.

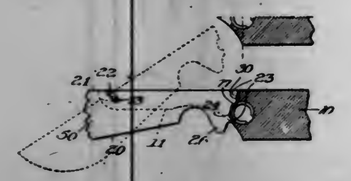
1,458,103. SINKER OR WEB-HOLDER CAM MECHANISM FOR KNITTING MACHINES. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Original application filed Oct. 1, 1920, Serial No. 414,085. Divided and this application filed Mar. 30, 1922. Serial No. 548,160. 10 Claims. (Cl. 66—26.)



1. In circular knitting mechanism employing a circular series of sinkers, web holders or like instrumentalities, and

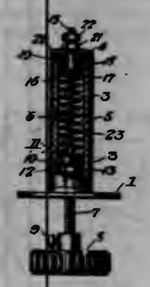
a bed ring receiving the same, a cap ring for said instrumentalities adapted to overlie said instrumentalities and bed ring and including relatively movable inner and outer curved members together providing a groove for the reception of the entire series of instrumentalities, advancing and retracting cams carried wholly by one of said members, means to permit predetermined relative movement between said inner and outer members, and means to permit a predetermined shogging movement of said ring.

1,458,104. DETACHABLE-BLADE KNIFE. HAROLD BRIX, Chicago, Ill., assignor to Sharp & Smith, Chicago, Ill., a Corporation of Illinois. Filed Jan. 20, 1922. Serial No. 530,598. 10 Claims. (Cl. 30—9.)



1. In a device of the character described, a handle comprising a hand-grip portion and a blade-supporting portion, the blade-supporting portion comprising two parallelly arranged stiff prongs with a slot between adapted to accommodate a thin flexible blade, a pin joining the prongs near their ends, a thin flexible blade adapted to fit in the slot between the prongs, a notch in the upper edge of the blade adapted to embrace the pin joining the ends of the prongs, and a notch at the back end of the blade adapted to engage with spring means in the handle.

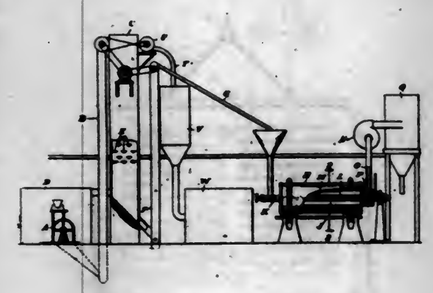
1,458,105. RHEOSTAT. SOLOMON RITTER HIPPLE, Williamsport, Pa., assignor to D. X. Instrument Company, Harrisburg, Pa., a Corporation of Delaware. Filed Sept. 6, 1922. Serial No. 586,433. 4 Claims. (Cl. 219—50.)



1. A rheostat comprising an insulating casing, a body of granular conductive material therein, terminals in said casing adapted to engage said granular material, one of said terminals being adjustable within the casing and having a piston thereon for compressing the granular material and a tapered end engaging said material.

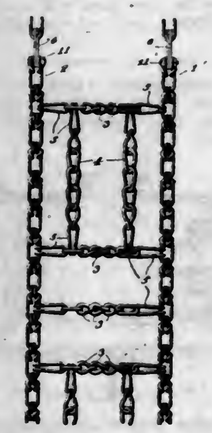
1,458,106. METHOD OF MAKING FUEL. WILSON L. MCLAUGHLIN, Decatur, Ill. Filed Mar. 26, 1919. Serial No. 285,324. 1 Claim. (Cl. 83—11.)

The method of commercially reducing fuel to impalpability which consists in comminuting the fuel, then removing substantially all the moisture therefrom, then pulverizing the material to an impalpable powder, then



removing the impalpable powder from the crusher by carrying the material in a slow moving body of air and then separating the fuel from the air.

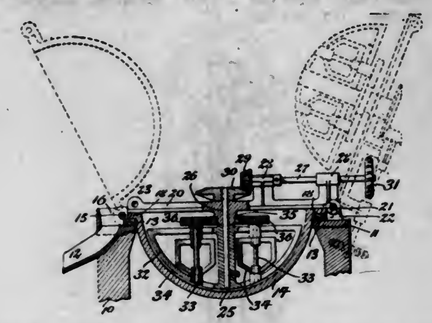
1,458,107. ANTISKID CHAIN. JAMES ALBERT SINCELL, Grafton, W. Va. Filed Jan. 27, 1923. Serial No. 615,252. 5 Claims. (Cl. 152—14.)



2. An anti-skid chain for tires, comprising circumferentially arranged side chains, transversely and circumferentially spaced circumferentially extending chains located between the side chains, transversely extending chains connected to the side chains and to the terminals of the circumferentially spaced chains and other transversely extending chains arranged between the circumferentially spaced chains.

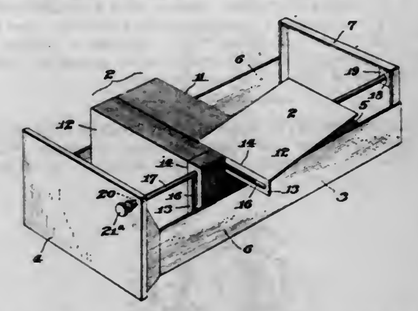
1,458,108. MOUNTING FOR FUSION KETTLES. OLIVER S. SLEEPER, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y., a Corporation of New York. Filed Nov. 10, 1919. Serial No. 336,801. 2 Claims. (Cl. 259—102.)

1. A supporting frame provided with a spout, a saddle mounted on said frame and capable of being tilted toward said spout, a kettle mounted on said saddle and arranged normally within said frame but movable with said saddle, and means for stirring the contents of said



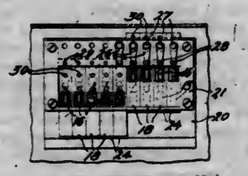
kettle mounted on said frame and capable of being raised independently of said kettle and saddle so as to clear the same.

1,458,109. RECORD-FILING DEVICE. THOMAS SPENCE, Philadelphia, Pa., assignor of one-half to Carleton E. Davis, Philadelphia, Pa. Filed Mar. 15, 1922. Serial No. 543,963. 3 Claims. (Cl. 129—16.)



3. A filing card comprising a main body portion and a narrower vertically extending edge portion hingedly connected thereto and having substantially a vertically extending slot therein for the reception of a retaining rod.

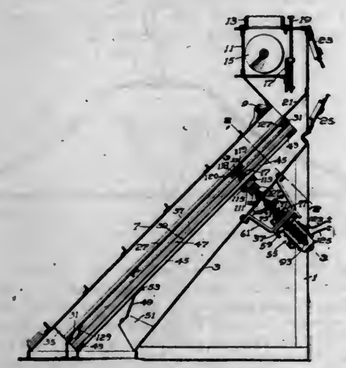
1,458,110. COMPUTING MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,810. 28 Claims. (Cl. 235—60.)



1. In an algebraic computing machine, the combination with number-wheels having digits to represent positive values and other digits to represent negative values, of means to indicate a row of positive digits from which positive results are to be read and two rows of negative digits from which negative results may be read, partly from one row and partly from the other, and a series of

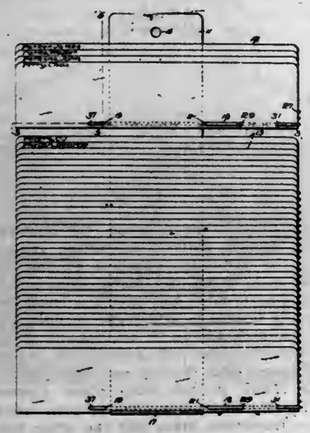
individual shutters overlying the respective number-wheels, each of said shutters having an aperture of sufficient size to expose a single digit, said shutters being movable to positions to expose the digits of the positive-reading row when positive results are to be read, and to expose negative digits in the negative-reading rows when negative results are to be read.

1,458,111. ELECTRICALLY-VIBRATED SCREEN. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 28, 1922. Serial No. 557,109. 15 Claims. (Cl. 83—56.)



1. A separator for grading materials, comprising, in combination, a support, a screen resting on, but not connected to said support, and electro-magnetic means for imparting vibrations of minute amplitude to said support and through the support to the screen in a direction transverse to the plane of the screen the latter being free to vibrate on and relatively to said support.

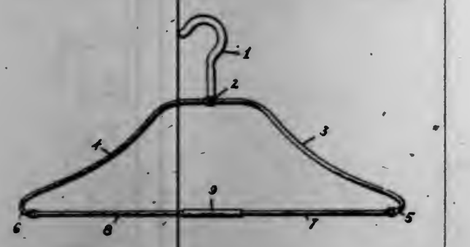
1,458,112. FILING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1920. Serial No. 358,455. 17 Claims. (Cl. 129—16.)



1. In a file, the combination of a sheet-support, a series of overlapping sheets overlying one side of said

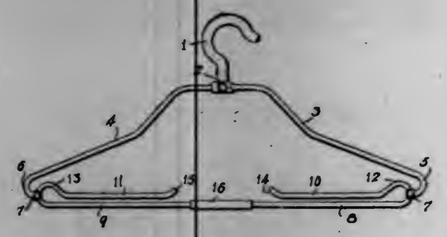
support and having means overlying the other side of said support attached to the sheet in such position as to predetermine the minimum exposure of the overlapping margins of said sheets, and having provision for detaching the same from said supoprt without disturbing the remaining sheets.

1,458,113. GARMENT HANGER. JOHN L. SOMMER, Newark, N. J., assignor to J. L. Sommer Manufacturing Co., a Corporation of New Jersey. Filed Dec. 19, 1918. Serial No. 267,442. 3 Claims. (Cl. 211—13.)



1. In a folding garment hanger, the combination of a suspending member, garment supporting arms pivotally connected to said suspending member so as to swing in a plane common to said arms and suspending member, a bar section for each of said arms pivotally connected at one end thereto to swing in the said common plane, and means for separably holding the free ends of said bar sections in alinement to maintain the said arms in extended position, whereby the arms and bar sections can be made rigid and each moves independently of the others in folding the hanger.

1,458,114. GARMENT HANGER. JOHN L. SOMMER, Newark, N. J. Filed Aug. 9, 1919. Serial No. 316,307. 3 Claims. (Cl. 211—13.)



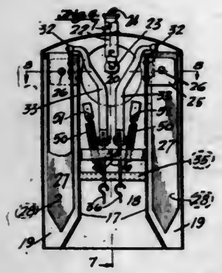
1. In a folding garment hanger, the combination of a suspending member, garment supporting arms each comprising a rod pivotally connected to said suspending member so as to swing in a plane common to said arms and suspending member and having a lower end portion bent laterally inward in said plane, doubled bar sections in said plane each having its doubled end pivoted to one of said inwardly bent end portions of the supporting arms and spaced from the adjacent supporting arm so as to swing freely in the same plane therewith, said doubled bar sections having two of their arms adapted to form a transverse brace and the other two forming trousers clamps, and means for separately holding the free ends of said brace arms in alinement to maintain the garment supporting arms in extended position.

1,458,115. HOUSING FOR FLEXIBLE SERVICE TUBES AND CABLES. WILLIAM T. CALDWELL, Glendale, Calif. Filed Oct. 1, 1921. Serial No. 504,824. 7 Claims. (Cl. 299—77.)



1. A housing for flexible service tubes and cables comprising an elongated housing provided with an opening through which a contained flexible member is adapted to pass, and separable antifriction rollers arranged within said housing adjacent to said opening.

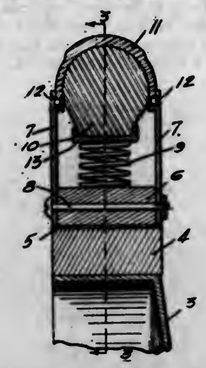
1,458,116. TRAFFIC SIGNAL FOR MOTOR VEHICLES. GEORGE DOOSE and CARL GARTNER, Pasadena, Calif. Filed Oct. 6, 1921. Serial No. 505,714. 11 Claims. (Cl. 116—36.)



1. The combination with a motor vehicle, and the steering mechanism associated with the front wheels thereof, of a signal device located on the rear portion of the body of the vehicle, a pair of signalling arms forming a part of said device, connections from said signalling arms to parts of the steering mechanism associated with the front axle, whereby said signalling arms are actuated to correspond with the movement of the actuated parts of the steering mechanism, and means connected to a part of the vehicle operating means for simultaneously actuating both of the signalling arms.

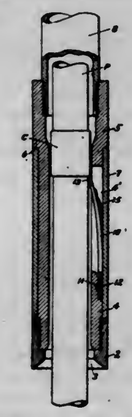
1,458,117. SPRING TIRE. TILLMAN H. GAMMON, Los Angeles, Calif. Filed Sept. 22, 1921. Serial No. 502,320. 1 Claim. (Cl. 152—8.)

A spring tire comprising an annular series of circumferentially spaced compression springs adapted for positioning upon the rim of a wheel, a ring formed of two semi-circular sections surrounding and engaging said springs, a tire core surrounding and supported on said ring, a tire casing embracing the core, and means for



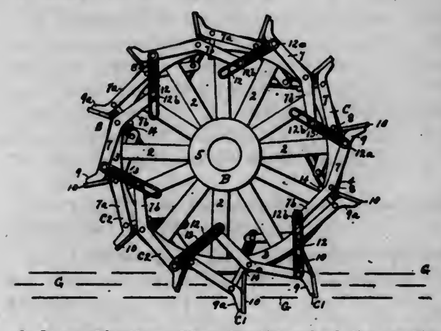
securing the tire casing to said rim and in embracing position with respect to the core.

1,458,118. CUTTING OVERSHOT. JOSEPH A. PLANTE, San Pedro, Calif. Filed Aug. 25, 1922. Serial No. 584,265. 3 Claims. (Cl. 81—180.)



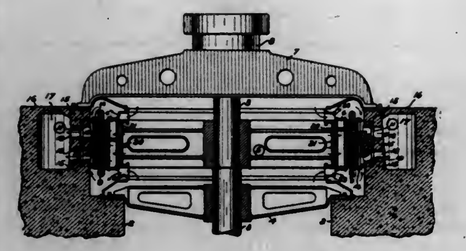
2. An overshot fishing tool having, in combination, spring hooking bars having pipe engaging ends provided with cutting means.

1,458,119. GROUTER FOR WHEELS. JOHN F. ROBERTS, Fresno, Calif. Filed May 3, 1921. Serial No. 466,427. 2 Claims. (Cl. 301—48.)



2. In combination with a traction wheel the combination of a grouter attached to arms pivoted to the rim of the wheel, the pivots permitting the grouter to be held adjacent to the periphery of the wheel or moved a spaced distance therefrom, an extension attached to said arms, and a link pivoted at one end to one of the arms, and the opposite end of the link being pivoted to said extension, said extension and link being adapted to move the grouter adjacent to the link toward the periphery of the wheel when the grouter attached to the arms is moved away from the wheel, and a spring normally adapted to hold the grouters adjacent to the periphery of the wheel.

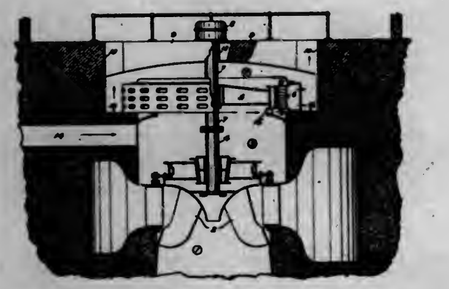
1,458,120. MAGNET AND DYNAMO-ELECTRIC-MACHINE STRUCTURE. ROBERT B. WILLIAMSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed June 8, 1918. Serial No. 239,327. 22 Claims. (Cl. 171—252.)



6. A dynamo-electric machine, comprising a concrete supporting structure having air passages, a core supported by said structure having air passages cooperating with the passages in said structure.

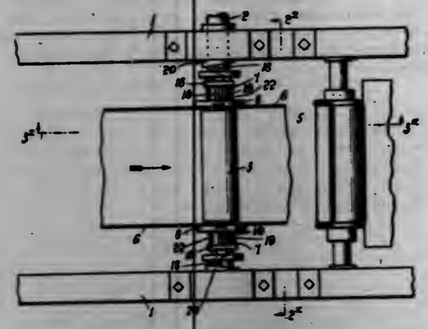
7. In a stator for dynamo-electric machines, a concrete structure having a core receiving opening, means for sustaining said core including substantially annular means within said opening provided with means for engaging said core and means associated with said annular means embedded in said concrete structure.

1,458,121. DYNAMO-ELECTRIC MACHINE. ARTHUR J. BROWN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 29, 1918, Serial No. 252,275. Renewed Nov. 10, 1922. Serial No. 600,188. 7 Claims. (Cl. 171—252.)



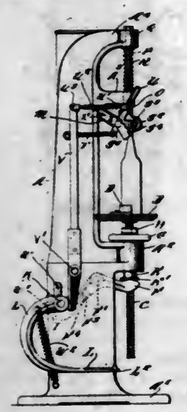
1. In combination, a dynamo-electric machine having a rotor and a stator, a base for said stator, a thrust bearing for said rotor above said machine and a bridge or arch supported by said base for supporting said bearing.

1,458,122. SHEET-CUTTING MACHINE. ARTHUR CHEETHAM, Toronto, Ontario, Canada, assignor of one-half to Fred M. Bawden, Toronto, Ontario, Canada. Filed Nov. 5, 1920. Serial No. 421,926. 15 Claims. (Cl. 164—64.)



1. In a device of the class described, means for the notching of the margin of a moving sheet, said means comprising a notched member over which said margin travels, a punch complementary to the notch in said member rotary means adapted to carry said punch into and out of juxtaposition with the margin of said sheet, said punch practically agreeing in speed and direction of movement with the said sheet when juxtaposed therewith, and means effecting the passage of said punch through said sheet and out of the path of the said sheet during such juxtaposition.

1,458,123. SEMIAUTOMATIC BOTTLE-CAPPING MACHINE. EDMUND A. HEY, La Grange, and JOHN G. LEPERE and LYLE K. WEBBER, Decatur, Ill., assignors to The Williams Sealing Corporation, Decatur, Ill., a Corporation of Connecticut. Filed May 3, 1919. Serial No. 294,572. 8 Claims. (Cl. 226—81.)



1. In a bottle capping machine, the combination with a movable bottle support and a chuck adapted to receive a cap having a lever, of a lever turning finger, a pivoted member adapted to actuate said lever turning finger and springs connected to the opposite ends of said pivoted member, one of said springs being connected to a fixed support and an actuating lever connected to the opposite end of the other spring.

Patents Nos. 1,458,124 to 1,458,922.

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Total	1220		

Trade-Mark Index.

Beginning with the issue of June 5, 1923, the index of titles of trade-marks published for opposition will be arranged by classes, taking the place of the alphabetical list of trade-mark titles published for opposition, and the index of titles of trade-marks registered will be arranged by classes, taking the place of the alphabetical list of trade-marks registered.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,343,462, E. A. Mellinger, Telephone-exchange automatic switching system, decided Apr. 27, 1923, claims 55, 56, 58, 60, 61, 67, 69, 75, 76, 77, and 79.

Pat. 1,382,571, H. Terhune, Steam-hammer guide, decided Mar. 3, 1923, claim 1.

Pat. 1,429,933, A. H. De Voe, Attachment for sewing machines, decided Apr. 30, 1923, claims 2, 5, 6, and 14.

Pat. 1,436,252, R. A. Heising, System for producing modulated waves, decided May 5, 1923, claims 9 and 18.

Pat. 1,439,991, L. E. Barringer, Molded material and method of preparation, decided May 5, 1923, claims 1 and 2.

Interference Notices.

U. S. PATENT OFFICE, *Washington, May 14, 1923.*

Walter F. McCaleb, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the patent granted April 20, 1920, No. 1,337,844, to Walter F. McCaleb, Federal Reserve Bank, Dallas, Tex., and an application for patent filed by William S. Gubelmann, 773 Richmond Avenue, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said McCaleb at the said address having been returned by the post office undeliverable, notice is hereby given that unless said McCaleb, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, May 11, 1923.*

Harry Paul Senay, his assigns or legal representatives, take notice:

An interference has been declared by this Office between the application of The Reese Chemical Company, 1945 East 97th Street, Cleveland, Ohio, for registration of a trade-mark and trade-mark registered November 3, 1914, No. 101,015, to Harry Paul Senay, 601 H Street NE., Washington, D. C. The Office having been unable to secure service upon said Senay, notice is hereby given that unless said Senay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Amendments.

In order to insure the prompt delivery of amendments to the proper examining division, applicants are requested in their actions on applications to give the division number and the room number appearing on the last Office letter, as well as the date of such letter.

Drawings.

Attention is called to paragraphs *g* and *i* of Rule 52 of the Rules of Practice of the Patent Office, and inventors and attorneys are directed to omit from the space outside of the marginal line of the drawings any marks of identification, inasmuch as the space referred to is reserved for the use of the Patent Office. Such identifying-marks should be placed upon the back of the drawings.

Condition of Applications Under Examination at Close of Business June 1, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 73,230: Trade-Mark Division, 3,972. Oldest new case, June 9, 1922; oldest amended, June 6, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Aug. 22	Aug. 19	1,207
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 20	Sept. 5	1,551
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 6	June 6	1,862
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 25	*Feb. 2	1,416
167	5. MACNAB, J. F., Bookbinding; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	June 17	July 21	1,376
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Sept. 2	*Jan. 14	1,700
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Aug. 19	Nov. 11	2,565
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Jan. 2	*Feb. 19	1,479
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Sept. 15	*Apr. 21	824
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Aug. 18	Sept. 28	1,395
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Nov. 16	Nov. 7	998
322	12. PIERCE, P. P., Machine Elements	Oct. 7	Dec. 7	1,498
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Aug. 2	*Feb. 14	1,286
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	July 19	*Apr. 13	1,201
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 16	Sept. 21	2,049
112	16. BACKUS, C. D., Radiant Energy Telegraphy; Telephony	Aug. 2	Aug. 1	2,475
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Aug. 1	Nov. 6	1,476
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	July 3	July 24	1,999
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Aug. 30	*Feb. 8	759
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 20	Nov. 11	1,976
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 24	*Jan. 3	1,036
249	22. COLWELL, J. H., Ammunitions; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Sept. 2	Dec. 1	653
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	July 7	June 8	862
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 22	Sept. 6	1,444
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 26	*Jan. 15	483
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 26	July 25	975
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 4	July 24	2,136
225	28. BENSON, A. B., Internal-Combustion Engines	Aug. 28	Oct. 11	1,533
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Aug. 16	Dec. 18	713
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Aug. 23	*Jan. 8	1,577
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 7	Aug. 15	1,758
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 3	Oct. 2	1,301
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Rods; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Sept. 18	Sept. 23	1,623
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Nov 24	*Jan. 9	760
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 16	*Mar. 8	1,084
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Nov. 10	Oct. 18	1,948
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 1	July 24	1,940
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	July 28	July 11	1,913
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 9	July 18	1,816
269	40. OBERLIN, J. J., Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	Aug. 7	*Jan. 13	2,088
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Nov. 11	Oct. 9	1,011
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Aug. 28	July 7	1,701
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 20	Sept. 18	1,312
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	July 28	*Jan. 4	1,246
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	July 22	Oct. 2	1,496
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 6	Sept. 28	1,414
264	47. BARKER, H., Clutches and Power-Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	July 24	Dec. 26	1,219
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	July 7	July 17	2,361
383	49. EDINBURG, P. F., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Aug. 15	Sept. 11	705
102	DESIGNS: C. O. MARKHAM (Acting)	Sept. 9	*Jan. 6	2,609
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR.	*Feb. 10	*Mar. 28	3,900
		*May 23	*May 26	72

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

PUPIN AND ARMSTRONG *v.* MEISSNER.

No. 1,541. Decided February 5, 1923.

1. INTERFERENCE—PRIORITY—DILIGENCE.

Where P. and A. made a sketch March 16, 1915, which contained a full disclosure of every count of the issue and there was nothing to be done thereafter except to continue their experiments with a view to perfecting their invention to a point where its commercial utility would be assured, but the length of time required for the completion of this auxiliary work does not definitely appear, *Held* that the interval between June 2, 1915, the filing date of M.'s application, and November 1, 1915, when P. and A. directed the filing of an application, was too long.

2. SAME—SAME—PUBLICATION OF INVENTION.

The publication of a booklet in September purporting to have been read in March before the Institute of Radio Engineers can not change the result, for at most it constitutes but cumulative evidence of a disclosure as of the date of the reading and did not amount to a constructive reduction to practice.

Mr. W. H. Davis for Pupin and Armstrong.

Mr. Octavius Knight for Meissner.

Before ROBB and VAN ORSDEL, Associate Justices, and Judge SMITH, of the U. S. Court of Customs Appeals, sitting in place of Chief Justice Smyth.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding in which priority of invention was awarded the patentee Meissner, whose patent was granted prior to the filing date of Pupin and Armstrong. Therefore it is incumbent upon the junior parties to prove their case beyond a reasonable doubt.

Meissner's application was filed June 2, 1915, and the claims of the issue, four in number, were taken from his patent. In the oath accompanying his application he refers to two German applications involving the same subject matter and filed there on April 9th and May 30th, 1914. The Patent Office found it unnecessary, as do we, to determine whether Meissner is entitled to constructive reduction to practice on these German applications, under the provisions of the International Convention.

The invention is of a highly technical character and relates to a device for receiving radiosignals in the form of high-frequency oscillations. The receiving device includes an amplifying relay of the vacuum-tube repeater type, with means for superimposing upon the high-frequency oscillations audible low-frequency impulses. Under certain conditions the low-frequency impulses interfere with the reception of the high-frequency signals in telephone receivers, and the purpose of this invention is to prevent or at least minimize such interference. One way of securing this result is to interpose in the circuit, between the relay and the telephone receivers, an auxiliary device permitting the transmission of the high-frequency oscillations but restraining or preventing the transmission of the low-frequency impulses. It is unnecessary to repeat the claims here, since there is no serious question as to their meaning.

Professor Armstrong, an instructor in electrical engineering and radiotelegraphy in the Hartley Research Laboratory at Columbia University, testified that the "complete conception (of the invention) occurred some time prior to the middle of February, 1915"; that immediately thereafter he tested his system and prepared a paper entitled "Some Recent Developments in the Audion Receiver," which "was delivered in New York on March 3, 1915." Before reading this paper he submitted it to Professor Pupin, his superior and co-inventor, with whom it was discussed. The particular feature of this discussion was—

> a difficulty which had arisen in the operation of this receiver which had theretofore prevented the reception of trans-Atlantic signals by this method. This difficulty was due to the production of a continuous tone in the telephone receivers by the low frequency current circulating in the circuits of the modulating tube. * * * Professor Pupin made various suggestions regarding the elimination of this difficulty, and as a result of this discussion I evolved and tried a circuit for reducing this disturbance. This circuit is illustrated in a sketch which I made on March 16, 1915. The circuit here shown gave a great improvement in the reduction of this residual tone.

The witness further stated that there still remained a residual tone—

> which was troublesome on very weak signals, particularly if a low frequency amplifier was used in connection with the detector.

Acting upon the suggestion of Professor Pupin, an artificial line between the modulating tube and the detecting apparatus was designed, but the length of time required for the completion of this auxiliary work does not definitely appear. It does appear, however, that the work was done in the laboratory. In response to a question calculated to elicit the information, the witness said:

> I am unable to recall this date definitely, but it was some time during the summer of 1915.

He further stated that he and Professor Pupin were engaged in other investigations during this time, resulting in the filing of three applications for patent by Professor Pupin on September 11, December 11 and December 31, 1915, and three applications by Pupin and Armstrong jointly, in addition to the one in interference, the dates being September 17 and October 1, 1915, when two were filed. The witness further testified that he believed it was "some time in the end of October, 1915" when he and Professor Pupin instructed their attorneys to prepare a patent application, which was filed on February 10, 1916.

Professor Pupin's testimony is even less specific than that of Professor Armstrong. After testifying that the March 3, 1915, paper was submitted

to and reviewed by him, he was asked whether Professor Armstrong discussed the alleged defect with him, and answered:

Well, I don't recollect the discussion, but it would be the most natural thing to discuss with him, and undoubtedly I did discuss it.

In response to the question as to what, if any, suggestions were made by him, he said:

I don't know when I discussed with him the desirability of a better filter, but I certainly discussed it with him some time after that date when I first saw the manuscript of the paper of March, 1915, and considerably prior to our filing the application.

Asked why no application was filed until February of 1916, the witness replied:

Because we were not successful in suppressing the local modulating low frequency until we introduced a satisfactory pilot conductor.

Two other witnesses, Professor Cushman and a Mr. Liebowitz, a mechanical and electrical engineer, who worked in the laboratory during the period here involved, and who witnessed the Armstrong sketch of March 16, 1915, identified that sketch, but neither witness was asked as to the activity of the junior parties to this interference during that period.

There also was offered in evidence a booklet or quarterly publication, bearing date of September, 1915, and purporting to contain the "proceedings of the Institute of Radio Engineers." In this publication is an article entitled "Some Recent Developments in the Audion Receiver," with a footnote reading as follows:

Delivered before the Institute of Radio Engineers, New York, March 3, 1915, and before the Boston Section, April 29, 1915.

[1, 2] The Patent Office found, and we concur in the finding, that the sketch of March 16, 1915, contained a full disclosure of every count of the issue. Indeed, the testimony of Professor Armstrong is to that effect, and in their brief counsel for appellants go even further when they there contend that the conception of the invention was complete on March 3, 1915, and that thereafter—

there was nothing to be done except to continue their experiments with a view to perfecting their invention to a point where its commercial utility would be assured.

We agree with the tribunals of the Patent Office that there is no evidence in the record warranting a finding of diligence on the part of appellants between the date of the March 16th sketch and November 1st, when the preparation of an application was directed. It is significant that the two witnesses who were in a position to know what was done during that period were not questioned as to the activity of appellants. The application of Meissner was filed on June 2nd and appellants' inactivity continued for several months thereafter. In the circumstances of the case, this was too long an interval. The publication in September of the paper purporting to have been read in March can not change the result, for at most it constitutes but cumulative evidence of a disclosure as of the date of the reading. Counsel for appellants evidently appreciated this, for in their brief they state:

The sketch of March 16, 1915, itself is accompanied by brief explanatory notes referring to different portions of the circuits. By means of this sketch and the March 3, 1915 Institute publication anyone skilled in the radio art would be able to set up and operate the invention defined in *all of the counts* of this interference.

In other words, counsel here recognize that the publication, standing alone, did not amount to a constructive reduction to practice. Moreover, that publication was three months subsequent to the filing of the Meissner application. We repeat that appellants have failed to sustain the burden of proof, and we therefore must affirm the decision of the Patent Office.

Affirmed.

Court of Appeals of the District of Columbia.

STANDERWICK *v.* KANE.

No. 1,555. Decided April 3, 1923.

CLAIMS—CONSTRUCTION OF.

Held that in claims which originated in S.'s application, and therefore are to be interpreted with particular reference to his disclosure, the words "substantially constant" mean "sufficiently constant for satisfactory operation"; in other words, that it was a practical and not a theoretical question.

Mr. A. G. Davis and *Mr. A. E. Bobst* for Standerwick.

Mr. G. F. De Wein and *Mr. Jno. J. Kane* for Kane.

Before ROBB and VAN ORSDEL, Associate Justices, and SMITH, Judge U. S. Court of Customs Appeals.

ROBB, *J.*:

Appeal from a decision of the Patent Office in an interference proceeding awarding priority of invention to the party Kane, whose application was filed five days prior to that of Standerwick.

The invention relates to turbine-driven dynamos, primarily intended to be mounted on locomotives, to furnish the current for headlights, classification lights and cab lights. In this sort of an apparatus, a suitable regulator to control the speed of the turbine under various conditions is necessary. Of these conditions the most common are increase in steam pressure above normal and decrease in the load of the generator, brought about either by failure of some of the lights or the turning out of some of them. It is obvious that an increase in the speed of the generator would raise the voltage of the current produced. The lights used with such an apparatus being of the incandescent type, a marked increase in the voltage of the current supplied above their rated voltage is destructive. The object of this invention was to supply a regulator to meet these conditions. The issue is expressed in four counts, of which the 2d and 3d are sufficiently illustrative, as follows:

2. In combination, an electric generator, a supply current connected thereto, a variable load connected to said supply circuit, and a magnetic drag for the generator comprising a winding connected across the supply circuit and shunt to the generator for maintaining substantially constant voltage on said supply circuit.

3. In combination, an electric generator, a supply circuit connected thereto, a variable working load connected to said supply circuit, and a magnetic drag comprising a winding connection across the supply circuit and in shunt to the generator for applying to the shaft of the generator an artificial load which varies inversely as the working load.

Early in May of 1914 Standerwick, an engineer employed by the General Electric Company, his assignee here, was set to work to develop a turbine-generator headlight set, with a suitable regulator. In a comparatively short time, the shunt-coil regulator forming the subject matter of the issue was conceived and a headlight set embodying it was subjected to various shop tests at Lynn, Mass., prior to the latter part of June, 1914. The result of these tests led to the installation of such a set, about June 25, 1914, on a Boston & Maine Railroad locomotive, running between Boston and Portland, Me. This set was in continuous operation for over fourteen months. On June 2, 1914, the engineers of the company authorized the building of a second machine for test purposes and there also was authorized the building of five more machines to be sent out to various railroads. The building of these additional machines commenced immediately. Early in September Standerwick was directed to visit Schenectady, N. Y., there to advise with Dr. Steinmetz, chief consulting engineer of the company. The result was the conception of a patentable improvement in the Standerwick regulator, comprising an addition to the shunt-coil brake winding. Upon Standerwick's return to Lynn, this addition was incorporated in the Standerwick device and its value demonstrated. Thereupon this improvement was added to the machine then under construction. The building of these machines was followed by the building and sale of many others.

To cover the above improvement of Steinmetz and Standerwick, a joint application was filed concurrently with the application here involved. This joint application was placed in interference and heard in the Patent Office concurrently with the present interference. Each of the tribunals below ruled that Kane was entitled to no earlier date than October 20, 1914, on any of the counts, and therefore awarded priority to the joint inventors. That decision we affirmed on January 2, 1923. (*Kane* v. *Steinmetz and Standerwick*, Patent Appeal No. 1510.)

In the present case, the Examiner awarded priority of invention on all the counts to Standerwick, on the ground that he was the first to conceive and first to reduce to practice, and on the further ground that, irrespective of the question of reduction to practice, his conception was followed by due diligence. The Examiners in Chief sustained the Examiner as to counts 1, 3, and 4, but reversed him as to count 2, on the ground that Standerwick's device is not capable of maintaining "the substantially constant voltage" required by this count; in other words, that he could not make that claim. The board, however, directed attention to the fact that the subject matter of the count was disclosed in the joint application. The Assistant Commissioner, holding that there had been no reduction to practice of the Standerwick invention, reversed the decision as to counts 1, 3, and 4 and affirmed as to count 2, without however passing upon the question of diligence.

The Patent Office tribunals have all ruled that counts 1, 3, and 4 contain patentable subject matter and that they read upon the early Standerwick device. We are clearly of the view that Standerwick has proven reduction to practice as to those counts. Without going into detail, it is sufficient to say that the evidence is to the effect that the structure disclosed by those counts is capable of materially reducing the speed variation attendant upon a change of load by supplying a drag responsive to such change, and that the shop tests and fourteen-months' use on a locomotive engine demonstrated this. When Kane entered the field Standerwick was diligently testing his device, and the period between that time and the filing date of Standerwick was filled with activity on the part of Standerwick.

As to count 2, the Assistant Commissioner was of the view that the words "substantially constant voltage" have the same import as the words "within the limitations necessary for satisfactory operation," and hence—

that in reality a satisfactory degree of regulation is involved in all four of the counts.

Since these claims originated with Standerwick's application, and therefore are to be interpreted with particular reference to his disclosure, we are of the view that "substantially constant," as held by the Assistant Commissioner, is a relative term and means "sufficiently constant for satisfactory operation;" in other words, that it was a practical and not a theoretical question. We agree with the Examiner of Interferences that the evidence discussed by him demonstrates that Standerwick's regulator does maintain a voltage sufficiently constant for satisfactory operation.

The decision therefore is reversed as to all the counts and priority awarded Standerwick.

Reversed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

803,684, J. A. Fleming, Instruments for converting alternating electric currents into continuous currents; 841,387, L. de Forest, Device for amplifying feeble electric currents; 879,532, same, Space telegraphy, suit filed Sept. 20, 1922, U. S. D. C., S. D. N. Y., Doc. E 24/333, *Radio Corp. of America* v. *A. Emerson and Others.* Motion to dismiss bill of complaint denied and plaintiff granted leave to file an amended bill.

809,582, H. Robinson, Machine for peeling vegetables, suits filed Apr. 7, 1923, U. S. C. Claims, D. C., Doc. C-320 and C-321, *Imperial Machine & Foundry Corp.* v. *U. S.*

836,531. (See Re. 13,798.)

841,387, L. de Forest, Device for amplifying feeble electrical currents; 879,532, same, Space telegraphy, suit filed Apr. 11, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/240, *Radio Corp. of America and Others* v. *Independent Wireless Telegraph Co. and Others.*

841,387. (See 803,684.)

877,451. (See Re. 13,798.)

879,532. (See 803,684 and 841,387.)

903,608, J. V. Pugh, Wheels for motor vehicles; 1,030,428, same, A process for the manufacture of wire-spoked rims; 1,125,498, T. I. Duffy, Demountable wheels; 1,166,130, H. A. House, jr., Locking devices for hubs; Re. 14,461, T. J. Lindsay, Driving axle, decree of District Court, Eastern District Virginia, affirmed Mar. 31, 1923, U. S. C. C. Appeals, 4th Cir., *Wire Wheel Corp. of America* v. *Budd Wheel Corp.*

933,263. (See Re. 13,798.)

1,004,505, A. V. L. Verneuil, Synthetic sapphires, suit dismissed without prejudice, U. S. D. C., S. D. N. Y., *L. Heller & Son, Inc.*, v. *H. A. Wolff* (*J. Berlett Co.*). Same, consent decree adjudging infringement and granting perpetual injunction, U. S. D. C., S. D. N. Y., *L. Heller & Son, Inc.*, v. *J. Gerbon et al.* (*Jewel Gem Co.*). Same, preliminary injunction granted, U. S. D. C., S. D. N. Y., *L. Heller & Son, Inc.*, v. *Standard Calibre Co., Inc.*

1,030,428. (See 903,608.)

1,104,073. (See Re. 13,798.)

1,125,498. (See 903,608.)

1,153,538, W. Barber, Traction machines, suit filed May 7, 1919, U. S. D. C., S. D. N. Y., Doc. E 16/84, *W. Barber* v. *Lapeer Tractor Truck Co. and Others.* Decree sustaining claims 6 and 7, adjudging that defendants have infringed said claims, and granting perpetual injunction against Trailer Co. of America and E. W. Partridge, and dismissing complaint against Lapeer Tractor Truck Co. for lack of jurisdiction.

1,154,548, E. Smulski, Reinforced concrete construction, suit filed Apr. 2, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/216, *A. E. Lindan and Others* v. *E. Smulski.*

1,166,130. (See 903,608.)

1,201,270. (See 1,377,405.)

1,225,852. (See Re. 13,798.)

1,334,802, J. Schneider, Insulator clamp, suit filed Sept. 26, 1923, U. S. D. C., S. D. N. Y., Doc. E 24/354, *J. Schneider* v. *Memco Engineering & Mfg. Co., Inc.* Consent order discontinuing the action.

1,339,466, W. O. Lum, Controlling means for electric circuits; 1,344,260, H. R. Canfield, Method and means for controlling electric circuits, bill dismissed as to Patent 1,339,466, by agreement of parties, Feb. 26, 1923, U. S. D. C., N. D. Ohio (E. D.), *General Electric Co.* v. *The Cutler Hammer Mfg. Co.* (To correct error in O. G. Apr. 17, 1923, p. 450.)

1,344,260. (See 1,339,466.)

1,369,994, G. W. Weaver, Hair waver, suit filed Mar. 30, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/213, *A. Klar* v. *T. B. M. Gates.*

1,377,405, L. de Forest, Audion circuit; 1,201,270, same, Oscillating current generator, suit filed Apr. 2, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/217, *De Forest Radio Telephone & Telegraph Co.* v. *J. H. Bunnell & Co.*

1,408,081, C. O. Deems, Draft connections, suit filed Mar. 29, 1923, U. S. D. C., E. D. Okla., Doc. E 3010, *Deems Tractor Hitch Co.* v. *W. E. Beckwith et al.*

1,431,736, L. Garwitt, Garment, suit filed Mar. 30, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/214, *Garwitt & Mendelson* (*Mengart Knitting Mills*) v. *Anathan & Co.*

Re. 13,798, 836,531, 877,451, G. W. Pickard, Means for receiving intelligence communicated by electric waves; 933,263, same, Oscillation devices; 1,104,073, same, Detectors for wireless telegraphy and telephony; 1,225,852, same, Rectifiers, consent decree adjudging infringement and granting perpetual injunction, U. S. D. C., S. D. N. Y., *Wireless Specialty Apparatus Co.* v. *T. W. Pinkerton.*

Re. 14,461. (See 903,608.)

Re. 14,667, F. D. Winkley, Lubricating system; Re. 15,503, E. Piquerez, Lubricator, suit filed Apr. 3, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 859, *The Bassick Mfg. Co.* v. *The Allyne-Zerk Co.*

Re. 15,503. (See Re. 14,667.)

ADJUDICATED PATENTS.

(U. S. C. C. A. Ohio.) Klocke patent, 955,173, *Held* invalid as to claims 1, 2, and 3, and valid and infringed as to claims 4, 5, 6, and 7. *Toledo Machine & Tool Co.* v. *E. W. Bliss Co.*, 287 Fed. Rep., 443.

(U. S. D. C. N. Y.) Fuller patent, 1,101,268, claims 1, 2, 6–16, 19, 20, and 23–27, for a stencil sheet, *Held* operative and infringed. *A. B. Dick Co.* v. *Barnett*, 287 Fed. Rep., 573.

(U. S. C. C. A. Md.) Riley patent, 1,152,222, claims 3, 9, and 10, for underfeed stokers, *Held* valid and infringed. *Frederick Iron & Steel Co.* v. *Sanford Riley Stoker Co.*, 287 Fed. Rep., 495.

(U. S. C. C. A. Ohio.) Wright patent, 1,303,753, *Held* invalid. *Continental Fibre Co.* v. *Formica Insulation Co.*, 287 Fed. Rep., 455.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 12, 1923.

[PUBLISHED JUNE 13, 1923.]

[VOL. 311. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 134,467. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOMAS E. FORSTER, doing business as T. E. Forster & Co., Neosho, Mo. Filed July 1, 1920.



Particular description of goods.—Cleaning Preparation for Bathtubs, Sinks, Porcelain, Marble, Enameled Ware, Pots, Kettles, Tinware, Crockery, Oilcloth, Linoleum, Floors, Painted Walls, and Woodwork.
Claims use since Feb. 20, 1920.

Ser. No. 138,330. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MATTH. HOHNER AKT. GES., Trossingen, Germany. Filed Oct. 15, 1920.



Applicant disclaims the exclusive right to the use of the words "Wien, Ulm, Stuttgart, Philad., Gr. Bronce, den Verdienste, Gesetzlichgeschutzt" and "Trade-Mark Registered" apart from the mark as shown.
Particular description of goods.—Mouth Harmonicas.
Claims use since 1886.

Ser. No. 140,766. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Dec. 8, 1920.

Forty Five

The mark consists of the words "Forty Five."
Particular description of goods.—Spectacles, Eyeglasses, and Ophthalmic Lenses.
Claims use since Nov. 16, 1920.

Ser. No. 144,290. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago, Ill., assignor to Lyon & Healy, Inc., Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1921.



Particular description of goods.—Musical Instruments, Merchandise, and Goods.
Claims use since 1864.

Ser. No. 153,715. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DELTA SIGMA PHI FRATERNITY, New York, N. Y. Filed Oct. 4, 1921.

DELTA SIGMA PHI

Particular description of goods.—Quarterly Publication.
Claims use since January, 1899.

Ser. No. 156,860. (CLASS 35. PRINTS AND PUBLICATIONS.) D. RELENVALEN, Cleveland, Ohio. Filed Dec. 17, 1921.



Color is not an essential feature of this trade-mark, and the lining of said trade-mark is merely for shading.
Particular description of goods.—Advertising Literature—Namely, Post Cards, Posters, Broadsides, Folders, Printed Signs; Completely-Printed Labels, Tags, and Cards; Novelty Died-Out Tickets, Booklets, Pamphlets, and Catalogues.
Claims use since November, 1921.

Ser. No. 157,016. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AKRON-SELLS COMPANY, Akron, Ohio. Filed Dec. 22, 1921.

TASCO

Particular description of goods.—Liquid Gauges.
Claims use since Jan. 1, 1917.

Ser. No. 157,500. (CLASS 38. PRINTS AND PUBLICATIONS.) DUPUIS-RICHMAN ENGRAVING & EMBOSSING CO., Chicago, Ill. Filed Jan. 6, 1922.

AMERICAN BEAUTY GREETING CARDS

The words "Greeting Cards" are hereby disclaimed apart from the mark shown.
Particular description of goods.—Greeting Cards.
Claims use since Jan. 1, 1921.

Ser. No. 157,922. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Jan. 14, 1922. Under ten-year proviso.

Brilliant Alizarine Blue

Particular description of goods.—Dyes and Dyestuffs.
Claims use since about July, 1893.

Ser. No. 159,048. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL HAIR GOODS CO., Chicago, Ill. Filed Feb. 8, 1922.

NATCONET

Trade-mark consists of the word "Natconet."
Particular description of goods.—Hair Nets.
Claims use since July 9, 1921.

Ser. No. 159,120. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

ROYAL LADY

The trade-mark consists of the words "Royal Lady."
Particular description of goods.—Fabrics in the Piece Made Wholly or in Part of Wool, Worsted, Mohair, Alpaca, Jute, Cotton, Silk, and Artificial Silk.
Claims use since Jan. 5, 1922.

Ser. No. 160,076. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NEW PROCESS CORK COMPANY, Brooklyn, N. Y. Filed Mar. 2, 1922.

Nepro

Particular description of goods.—Bottle Closures of the Crown Type.
Claims use since August, 1914.

Ser. No. 160,316. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

VOILE SUPERBE

No claim being made to the word "Voile" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE H. J. BROWN MEDICINE COMPANY, Cleveland, Ohio. Filed Mar. 8, 1922.

Nicotol

Particular description of goods.—Remedies for Tobacco Habit, Compositions for Alleviating the Injurious Effect of Nicotine, and Tonics for the Human System.
Claims use since February, 1919.

Ser. No. 160,898. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed Mar. 18, 1922.

EBON-IVOR

Particular description of goods.—Hand Mirrors and Picture Frames.
Claims use since January, 1922.

Ser. No. 161,066. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE STANDARD PARTS COMPANY, Cleveland, Ohio. Filed Mar. 22, 1922.

PS

Particular description of goods.—Vehicle Springs.
Claims use since 1907.

Ser. No. 163,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 9, 1922.



Trade-mark consists of the word "Gaiety." The representation of a cooky is disclaimed apart from the other features of the trade-mark as shown in the drawing.
Particular description of goods.—Biscuit.
Claims use since May 4, 1922.

Ser. No. 164,462. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & CO., New York, N. Y. Filed May 24, 1922.

DREADNAUGHT

Particular description of goods.—Woolen Cloths in the Piece, Intended for Suitings, Etc.
Claims use since Mar. 9, 1922.

Ser. No. 164,559. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE STAR RUBBER COMPANY, Akron, Ohio. Filed May 26, 1922.

RESILIOCORD

Particular description of goods.—Elastic Vehicle Tires Composed Wholly or in Part of Rubber and Inner Tubes for Pneumatic Tires.
Claims use since on or about Mar. 4, 1922.

Ser. No. 164,564. (CLASS 39. CLOTHING.) SEIBERLING RUBBER COMPANY, Akron, Ohio. Filed May 26, 1922.



Particular description of goods.—Soles and Heels for Boots and Shoes Composed Wholly or in Part of Rubber.
Claims use since about Dec. 29, 1921.

Ser. No. 166,736. (CLASS 32. FURNITURE AND UPHOLSTERY.) DURARD DESK MFG. CO., Los Angeles, Calif. Filed July 11, 1922.

The Executive
ROLL - TOP - FLAT

No claim is made to the exclusive use of the descriptive words "Roll-Top-Flat," appearing in its trade-mark apart from the mark shown.
Particular description of goods.—Desks.
Claims use since June 1, 1921.

Ser. No. 167,361. (CLASS 38. PRINTS AND PUBLICATIONS.) LAURA NELSON-KIRKWOOD, trustee of the Estate of William R. Nelson, deceased, Kansas City, Mo. Filed July 25, 1922. Under ten-year proviso.

THE KANSAS CITY STAR.

Trade-mark consists of the words "Kansas City Star."
Particular description of goods.—Newspapers.
Claims use since Sept. 18, 1884.

Ser. No. 167,567. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ALEXANDER HERZ, doing business as The Hygeia Antiseptic Tooth Pick Co., New York, N. Y. Filed July 29, 1922.

SIPPERS

Particular description of goods.—Drinking Straws.
Claims use since about March, 1905.

Ser. No. 167,917. (CLASS 39. CLOTHING.) THE J. L. HUDSON COMPANY, Detroit, Mich. Filed Aug. 7, 1922.



No claim made to the exclusive use of the words "Arch Aid" apart from the rest of the mark shown in the drawing.
Particular description of goods.—Men's, Women's, and Children's Shoes Made of Leather, Fabric, and Combinations Thereof.
Claims use since July 1, 1922.

Ser. No. 167,922. (CLASS 37. PAPER AND STATIONERY.) NEW YORK & PENNSYLVANIA COMPANY, Castanea Township, Clinton County, Pa., and New York, N. Y. Filed Aug. 7, 1922.

CLARION

Particular description of goods.—Book Paper in Sheets and Rolls—Namely, Antique Laid, Supercalendered, Machine Finish, End Sheet and English Finish for General Printing and Publishing Work; Alkali Proof—Namely, for Soap Wrappers and Like Purposes; Lining, Machine-Finish Lithograph, Superlithograph, Eggshell Book, Wall Paper; Machine-Finish Offset, Title Stock, Soda Pulp, and Sulphide Pulp.
Claims use since 1890.

Ser. No. 167,973. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM H. COLE & CO. LTD., Painswick, England. Filed Aug. 9, 1922.



No claim made to the exclusive use of the words "Cole's Snap Stud" apart from the mark as shown in the drawing.
Particular description of goods.—Notions and Small Wares—viz, Hairpins and Pins of Base Metal, Hooks and Eyes, Hair Wavers, and Snap Fasteners.
Claims use since Nov. 2, 1921.

Ser. No. 168,348. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTSILK KNITTING MILLS, West New York, N. J. Filed Aug. 17, 1922.

TRICOSHAM

Particular description of goods.—Silk and Silk and Cotton Goods in Piece and Artificial-Silk Goods in the Piece.
Claims use since Mar. 21, 1922.

Ser. No. 168,383. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STEHLI SILKS CORPORATION, New York, N. Y. Filed Aug. 17, 1922.

FEUTRELLA

Particular description of goods.—Broad Silks in the Piece and Silk and Cotton Piece Goods.
Claims use since Mar. 16, 1922.

Ser. No. 168,894. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KLEINSCHMIDT ELECTRIC CO., INC., Long Island City, N. Y. Filed Aug. 30, 1922.



Particular description of goods.—Telegraph Apparatus—Namely, All Apparatus Used in Printing-Telegraph Systems, Morse Telegraph Systems, Line-Telegraph High-Frequency Systems, and Radiotelegraph Systems.
Claims use since Nov. 17, 1913.

Ser. No. 169,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SILVEIRA, CARMO & COMPANHIA, Lisbon, Portugal. Filed Sept. 6, 1922.



Particular description of goods.—Sardines in Oil.
Claims use since March, 1920.

Ser. No. 169,580. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FERGUSON AND LANGE FOUNDRY COMPANY, Chicago, Ill. Filed Sept. 18, 1922.



Particular description of goods.—Water-Heating Apparatus and Parts Thereof Used in Conjunction with Heating Boilers.
Claims use since June 9, 1921.

Ser. No. 169,766. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LACE-NET IMPORTING CO., New York, N. Y. Filed Sept. 21, 1922.

MARJOLAINE

Particular description of goods.—Silk Laces, Silk and Fiber and Silk and Wool Laces.
Claims use since March, 1921.

Ser. No. 171,083. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) IRON CLAD PATCH LABORATORIES INC., New Orleans, La. Filed Oct. 23, 1922.



We disclaim the word "Patch" as a part of the mark.
Particular description of goods.—Adhesive Patches for Automobile Tires and Inner Tubes.
Claims use since Jan. 1, 1919.

Ser. No. 171,250. (CLASS 39. CLOTHING.) NATHAN BARGSTEIN, Brooklyn, N. Y. Filed Oct. 27, 1922.

Purity

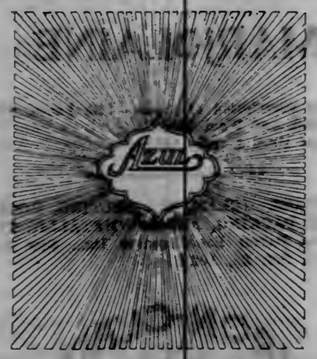
Trade-mark consists of the word "Purity."
Particular description of goods.—Ladies' Underwear Made of Textile Fabrics.
Claims use since Oct. 10, 1922.

Ser. No. 171,417. (CLASS 12. CONSTRUCTION MATERIALS.) STUART F. FRASER, Pittsburgh, Pa. Filed Oct. 31, 1922.

BOULEVARD

Particular description of goods.—Roofing Materials, Particularly Asphalt Shingles.
Claims use since Oct. 23, 1922.

Ser. No. 171,451. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Nov. 1, 1922.



Applicant disclaims the exclusive right to the use of the word "Azul" apart from the mark as shown.

Particular description of goods.—Soaps.

Claims use since Apr. 21, 1921.

Ser. No. 171,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AKTIENGESELLSCHAFT FÜR CHEMISCHE PRODUKTE VORMALS H. SCHEIDEMANDEL, Berlin, Germany. Filed Nov. 4, 1922.

Prof Dr Zuntz

The mark is the facsimile signature of Prof. Dr. Zuntz.

Particular description of goods.—Pharmaceutical Preparations for Promoting the Growth of Human Hair.

Claims use since December, 1919.

Ser. No. 171,773. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HUMMEROOR & SON, Vernon, Tex. Filed Nov. 9, 1922.



Exclusive use of the phrase "A Cotton You Ought to Grow," being disclaimed.

Particular description of goods.—Farm Seeds.

Claims use since Oct. 15, 1922.

Ser. No. 171,774. (CLASS 32. FURNITURE AND UPHOLSTERY.) WASMUTH-ENDICOTT COMPANY, Andrews, Ind. Filed Nov. 9, 1922.



Particular description of goods.—Cabinets.

Claims use since September, 1914.

Ser. No. 171,867. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed Nov. 11, 1922.

FLEURS D'AMOUR



Particular description of goods.—Soaps, Soap Pastes, and Soap Powders.

Claims use since Nov. 4, 1903.

Ser. No. 171,967. (CLASS 39. CLOTHING.) MAX I. REINHERTZ, also doing business as Reinherts Mfg. Co., San Francisco, Calif. Filed Nov. 13, 1922.

Regal

VELVET CORD

The words "Velvet Cord" do not form a part of the mark sought to be registered apart from the mark shown in the drawing.

Particular description of goods.—Men's Clothing—Namely, Pants.

Claims use since March, 1922.

Ser. No. 172,134. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE UNITED TURKEY RED COMPANY LIMITED, Glasgow, Scotland. Filed Nov. 16, 1922.



No claim is made to the exclusive and sole use of the device of a lion or the device of a sun apart from the mark as shown.

Particular description of goods.—Cotton Goods in the Piece.

Claims use since Aug. 13, 1868.

Ser. No. 172,314. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ACE HARDWARE MANUFACTURING CORPORATION, Philadelphia, Pa. Filed Nov. 21, 1922.



Particular description of goods.—Knife and Edge-Tool Sharpening Machines.

Claims use since Aug. 10, 1922.

Ser. No. 172,524. (CLASS 39. CLOTHING.) DAYTON HOSIERY MILLS, Dayton, Tenn. Filed Nov. 25, 1922.

LADY ASTER

Particular description of goods.—Hosiery.

Claims use since Nov. 7, 1922.

Ser. No. 172,874. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE GERMAIN BROTHERS COMPANY, Saginaw, Mich. Filed Dec. 4, 1922.



No claim is made to the exclusive use of the words "Seal of Quality, Guaranteed Seats, Saginaw, Mich., U. S. A." apart from the other features of the mark as shown.

Particular description of goods.—Type of Toilet or Closet Seat.

Claims use since June 6, 1922.

Ser. No. 172,904. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SCHLUETER MANUFACTURING CO., St. Louis, Mo. Filed Dec. 4, 1922.



In the mark the lining expresses the color red.

Particular description of goods.—Washboilers and Galvanized Washtubs.

Claims use since March, 1915.

Ser. No. 172,996. (CLASS 39. CLOTHING.) LEVY-SHULMAN & CO. INC., New York, N. Y. Filed Dec. 6, 1922.

QUEEN OF STOUTS

Particular description of goods.—Women's Dresses.

Claims use since Nov. 21, 1922.

Ser. No. 173,009. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ROVER COMPANY, LIMITED, Coventry, England. Filed Dec. 6, 1922.

ROVER

Trade-mark consists of the mere word "Rover."

Particular description of goods.—Motor Cars, Bicycles, Tricycles Adapted to be Used Both by Children and Adults, and Motor Cycles.

Claims use since 1886.

Ser. No. 173,136. (CLASS 39. CLOTHING.) JACK LEVY, INC., New York, N. Y. Filed Dec. 9, 1922.



No claim is made to the exclusive use of the word "Dresses" apart from the mark as shown on the drawing.
Particular description of goods.—Dresses.
Claims use since June 16, 1921.

Ser. No. 173,259. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & Co., New York, N. Y. Filed Dec. 12, 1922.



The drawing is lined for purpose of shading only.
Particular description of goods.—Woolen Cloths in the Piece Intended for Suiting, Etc.
Claims use since Mar. 30, 1922.

Ser. No. 173,280. (CLASS 32. GLASSWARE.) OSCAR O. FRIEDLAENDER Co., New York, N. Y. Filed Dec. 13, 1922.



Particular description of goods.—Illuminating Glassware.
Claims use since January, 1921.

Ser. No. 173,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT BOLLACK, Paris, France. Filed Dec. 19, 1922.



Particular description of goods.—Veterinary Remedies—Namely, for Aphthous Fever and Diseases of the Hoof.
Claims use since Oct. 1, 1922.

Ser. No. 173,651. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KRAFT CHEMICAL COMPANY, Oklahoma, Okla. Filed Dec. 21, 1922.



Particular description of goods.—Shoe Polish Containing a Dye.
Claims use since about Nov. 14, 1922.

Ser. No. 173,742. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DURYEA MANUFACTURING COMPANY, Bayonne, N. J. Filed Dec. 23, 1922.



Particular description of goods.—Belt Dressing.
Claims use since July 1, 1922.

Ser. No. 173,775. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MARSHALL-GERKEN COMPANY, Toledo, Ohio. Filed Dec. 23, 1922.



Particular description of goods.—Electrical Binding Posts.
Claims use since Oct. 1, 1921.

Ser. No. 173,845. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MOUND CITY BOTTLING COMPANY, St. Louis, Mo. Filed Dec. 26, 1922.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Aug. 1, 1922.

Ser. No. 173,886. (CLASS 39. CLOTHING.) THE PHILIP GIARD SHOE COMPANY, INC., Brockton, Mass. Filed Dec. 27, 1922.



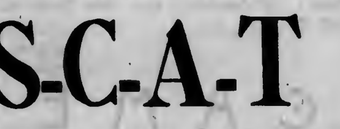
The lining upon the drawing is for the purpose of shading only and is not intended to indicate color. No monopoly is claimed of the words "Work," "Dress," and "Shoes" except in connection with the other features of the mark.
Particular description of goods.—Boots and Shoes—Namely, Work Shoes, Street Shoes, and Dress Shoes of Leather and Leather and Rubber.
Claims use since about Dec. 11, 1922.

Ser. No. 173,981. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PETTITT & BICKFORD COMPANY, Waynata, Minn. Filed Dec. 29, 1922.



Particular description of goods.—Lever Casings for Bottoms of Automobile Bodies.
Claims use since Nov. 1, 1922.

Ser. No. 174,116. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WADE HAMPTON WILSON, doing business as Scat Chemical Company, Jacksonville, Fla. Filed Jan. 2, 1923.



Particular description of goods.—Medicinal Preparation for the Treatment of the Nerves, Kidneys, and Liver, as Well as the Sexual Organs.
Claims use since Jan. 18, 1919.

Ser. No. 174,208. (CLASS 39. CLOTHING.) JULIUS KAYSER & Co., New York, N. Y. Filed Jan. 5, 1923.



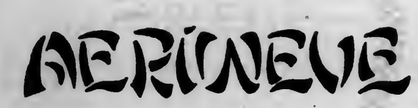
Particular description of goods.—Gloves.
Claims use since Sept. 1, 1922.

Ser. No. 174,348. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VARY KNIT CO., INC., Union Hill, N. J., and New York, N. Y. Filed Jan. 8, 1923.



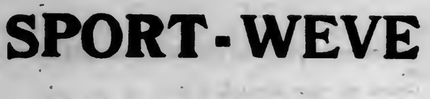
Particular description of goods.—Woven and Knitted Cotton and Wool Piece Goods and Silk and Wool Fabrics in the Piece.
Claims use since January, 1922.

Ser. No. 174,786. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Filed Jan. 19, 1923.



Particular description of goods.—Tropical Worsteds in the Piece.
Claims use since January, 1891.

Ser. No. 174,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Filed Jan. 19, 1923.



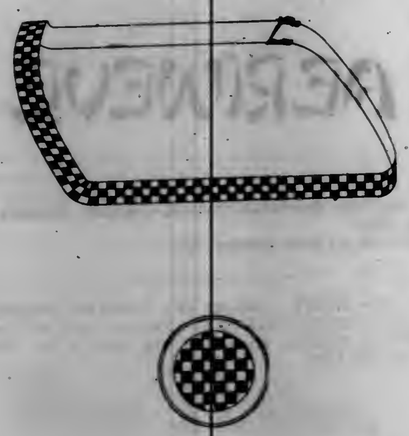
Particular description of goods.—Novelty Worsted Fabrics.
Claims use since January, 1922.

Ser. No. 174,971. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 23, 1923.



Particular description of goods.—Coal-Tar Crudes, Intermediates, Dyestuffs, Dyes, Coal-Tar Colors, Lakes for Paper and Cloths; Dyes and Stain for Biological, Bacteriological, and Histological Purposes; Tints Derived from Coal-Tar Colors, Pigments for General Use, Mordants, Catalyzers, Accelerators for Vulcanizing Purposes, Chemicals Designated as Indicators and Used in Making Chemical Analyses, Developers Used in Dyeing and for Photography; Coal-Tar Derivatives Used as Dyes, Intermediates, Accessories, Preservatives, and Pharmaceuticals; and Dyes Used in Tanning.
Claims use since Jan. 15, 1923.

Ser. No. 175,001. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHECKER TAXI CO., Chicago, Ill. Filed Jan. 24, 1923.



Particular description of goods.—Automobiles and Taxicabs.
Claims use since Mar. 15, 1919.

Ser. No. 175,107. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE RITE FORM CORSET CO. INC., New York, N. Y. Filed Jan. 25, 1923.

WUNPUL

Particular description of goods.—Corset Steels.
Claims use since Jan. 2, 1923.

Ser. No. 175,353. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GRADY MFG. CO., Long Island City, N. Y. Filed Jan. 31, 1923.

GRADY'S GOLDEN GLOW

Particular description of goods.—Polish for Brass, Copper, Bronze, Nickel, Tin, Etc.
Claims use since Jan. 1, 1923.

Ser. No. 175,379. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAMSON L. BARNHART, New York and Babylon, N. Y. Filed Feb. 1, 1923.

Bill Barnhart.

The mark presented is a facsimile signature of the applicant.
Particular description of goods.—Printed Articles and Letters Upon the Subject of Salesmanship.
Claims use since Feb. 1, 1922.

Ser. No. 175,423. (CLASS 37. PAPER AND STATIONERY.) G. GENNERT, INC., New York, N. Y. Filed Feb. 2, 1923.

CAMEO

Particular description of goods.—Albums—Namely, Loose-Leaf and Fixed-Leaf Photographic Albums.
Claims use since Dec. 1, 1921.

Ser. No. 175,431. (CLASS 39. CLOTHING.) MANHATTAN KNITTING MILLS, INC., New York, N. Y. Filed Feb. 2, 1923.



Particular description of goods.—Sweaters.
Claims use since Dec. 1, 1922.

Ser. No. 175,433. (CLASS 12. CONSTRUCTION MATERIALS.) PAUL MEYER INC., New York, N. Y. Filed Feb. 2, 1923.

ACOUSTIC

Particular description of goods.—Plaster.
Claims use since Nov. 6, 1922.

Ser. No. 175,462. (CLASS 39. CLOTHING.) CAMPE-DAVIS-BLAIR CO. INC., New York, N. Y. Filed Feb. 3, 1923.

SORORITY GIRL

Particular description of goods.—Women's and Girls' Stockings and Hosiery Generally.
Claims use since Jan. 17, 1923.

Ser. No. 175,567. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 5, 1923.

Stylepointe

Particular description of goods.—Hosiery.
Claims use since Jan. 26, 1923.

Ser. No. 175,594. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES W. BELL & CO., Chicago, Ill. Filed Feb. 6, 1923.



Particular description of goods.—Monthly Magazine.
Claims use since November, 1922.

Ser. No. 175,656. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed Feb. 7, 1923.

KURLETTE

Particular description of goods.—Electric Hair-Curling Irons.
Claims use since Jan. 19, 1923.

Ser. No. 175,761. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Feb. 9, 1923.

VE B AK

Particular description of goods.—Textile Articles—Namely, Hosiery.
Claims use since Jan. 26, 1923.

Ser. No. 175,854. (CLASS 39. CLOTHING.) JOSEPH M. FEINSON, New York, N. Y. Filed Feb. 10, 1923.

BRUXTON

Particular description of goods.—Cravats, Mufflers, and Men's Lounging Robes.
Claims use since about Nov. 15, 1922.

Ser. No. 175,857. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FORT WORTH DRILLING TOOL COMPANY, Fort Worth, Tex. Filed Feb. 10, 1923.

FWDTC

Particular description of goods.—Cable Drilling Tools; Drilling Bits, All Types; Drilling Stems and Sinker Bars, Drilling Jars, Rope Sockets, Tool Wrenches; Bailers, Regular and Sectional; Bit Rams, Spiders with Liners and Slips; Drive Heads, All Types; Drive Shoes, Drive Clamps, Casing Clamps, Anchor Clamps; Fishing Tools, Combination Sockets; Slip-Sockets, Regular Spoon Slip Type and Casing-Bowl Type; Collar Sockets, Jar-Tongue Sockets, Jar-Rein Sockets, Center Jar Sockets, Side Jar Sockets, Sucker-Rod Sockets, Bell Sockets, Casing Perforators, Casing-Collar Busters, Jar Bumpers,

Boot or Latch Jacks; Baller Grabs, Single and Two Slips; Side Rasps, Spuds, Casing Swages, Die Nipples, Die Collars, Bull-Dog Casing Spears, Trip Casing Spears, Drive-Down Trip Spears, Tubing Spears; Wire-Rope-Cutting Outfit, Acme Type, Including Jars, Sinker, and Rope Socket; Blind-Rope Choppers, Two and Three Prong Rope Grabs, Rope Spears, Casing Cutters, Casing Splitters, Wall or Bit Hooks, Hollow Reamers, Fishing Jars, Regular-Joint Subs, Casing-Tool-Joint Subs, Whip Sockets, Combination Nipple and Collar Die, Casing Bowls, Friction Sockets, Horn Sockets, Alligator Grabs; Rotary Drilling and Fishing Tools, Tool Joints, Fishtail Bits, Drill Collars, Casing Shoes, Sawtooth Rotary Shoes, Common Wash-Down or Rotary Spear Overshots, Forge-Steel Bushing for Overshots, Bowls for Overshots.
Claims use since Oct. 24, 1922.

Ser. No. 175,955. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.



Particular description of goods.—Metals—Namely, Metal Alloys of Copper, Zinc, and Nickel in the Form of Tubes and Shells.
Claims use since Jan. 19, 1923.

Ser. No. 176,074. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT H. CROMWELL, doing business as Southern California Cosmetic Mfg. Co., Los Angeles, Calif. Filed Feb. 15, 1923.

HAIR GLO-CO

Particular description of goods.—Preparation for Imparting a Glossy Appearance to the Hair.
Claims use since Nov. 7, 1922.

Ser. No. 176,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES R. IRVIN, Chicago, Ill. Filed Feb. 17, 1923.

UNIVERSITY

Particular description of goods.—Tooth Paste and Liquid Dentifrice.
Claims use since February, 1920.

Ser. No. 176,234. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VITRO MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Feb. 17, 1923.



No claim is made to the exclusive use of the words "Trade Mark" and "Pittsburgh, Pa." except as the same appears in connection with the other features of the mark.
Particular description of goods.—Oxides of Cobalt, Chromium, Selenium, Zirconium, Titanium, Cerium, and Tin and for Sulphide of Cadmium.
Claims use since August, 1910.

Ser. No. 176,246. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN EDUCATION PRESS, INC., Columbus, Ohio. Filed Feb. 19, 1923.

The NEWS OUTLINE

Particular description of goods.—Name of a Publication Issued Each Week During the School Year, From the Third Week in September to the Third Week in June.
Claims use since Aug. 28, 1921.

Ser. No. 176,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTEE LABORATORIES CO., Dallas, Tex. Filed Feb. 19, 1923.

STAYSO

Particular description of goods.—Hair Dressing.
Claims use since July 21, 1922.

Ser. No. 176,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOLEY & COMPANY, Chicago, Ill. Filed Feb. 19, 1923.



Particular description of goods.—Hair Oils.
Claims use since Apr. 24, 1922.

Ser. No. 176,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOLEY & COMPANY, Chicago, Ill. Filed Feb. 19, 1923. Under ten-year proviso.

FOLEY

Particular description of goods.—Tooth Paste, Glycerin, Castor Oil, and Essence of Peppermint.
Claims use since about Jan. 1, 1885.

Ser. No. 176,277. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. PENNSYLVANIA SOAP COMPANY OF LANCASTER, PA., Lancaster, Pa. Filed Feb. 19, 1923.

AMERICAN HEART

Particular description of goods.—Soaps.
Claims use since June, 1917.

Ser. No. 176,295. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CLARENCE S. TODD, doing business as Todd Drain-A-Tub Co., Kansas City, Mo. Filed Feb. 19, 1923.

DRAIN-A-TUB

Particular description of goods.—Rinsing and Bluing Tubs.
Claims use since about Aug. 1, 1922.

Ser. No. 176,334. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FLASH CHEMICAL COMPANY, Cambridge, Mass. Filed Feb. 20, 1923.

VEGETOL

Particular description of goods.—Toilet Soap.
Claims use since Feb. 21, 1913.

Ser. No. 176,376. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

PERSIAN LAMB

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.
Claims use since February, 1906.

Ser. No. 176,399. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CHAMPION APPLIANCE MANUFACTURING COMPANY, INC., Yonkers, N. Y. Filed Feb. 21, 1923.

CHAMPCO

Particular description of goods.—Clothes-Washing Machines and Clothes Wringers.
Claims use since July 11, 1922.

Ser. No. 176,418. (CLASS 30. CLOTHING.) HUTT & WASSERMAN INC., New York, N. Y. Filed Feb. 21, 1923.



No claim made to the word "Felts" apart from the mark shown. The purpose of the lining on the drawing is for shading only.

Particular description of goods.—Men's Hats.
Claims use since Mar. 31, 1922.

Ser. No. 176,431. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SPRINGFIELD SEED COMPANY, Springfield, Mo. Filed Feb. 21, 1923.



No claim made for the word "Brand."

Particular description of goods.—Agricultural and Grass Seeds.
Claims use since January, 1910.

Ser. No. 176,466. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

R.F.C

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,467. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

R.S.C.

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,468. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

S.F.C.

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,469. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

S.S.C.

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,470. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

2 IN 1

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,471. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HEIL CO., Milwaukee, Wis. Filed Feb. 23, 1923.

3 IN 1

Particular description of goods.—Truck Bodies.
Claims use since May, 1919.

Ser. No. 176,536. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CLINTON MOTORS CORPORATION, New York, N. Y. Filed Feb. 24, 1923.



Particular description of goods.—Motor Trucks.
Claims use since Oct. 1, 1922.

Ser. No. 176,603. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) COASTER COMPANY, Salt Lake City, Utah. Filed Feb. 26, 1923.

COAST-O

Particular description of goods.—Hand Sleds for Snow and Ice, Interchangeable Hand Sleds with Wheels, and Toy Wagons.
Claims use since Oct. 1, 1922.

Ser. No. 176,619. (CLASS 12. CONSTRUCTION MATERIALS.) THE ALFRED C. GOETHEL CO., Milwaukee, Wis. Filed Feb. 26, 1923.

TRADE
TAIFLIN
MARK

The vertical shade lines or parts of the letters comprising the mark represent red coloring. Other parts of each letter are black, as indicated. The word "Trade-Mark" is disclaimed apart from the mark as shown.

Particular description of goods.—Skylights.
Claims use since Oct. 1, 1921.

Ser. No. 176,628. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN HOLLBACH COMPANY, Paterson, N. J. Filed Feb. 26, 1923.

EVERCLING

Particular description of goods.—Woven Mesh Fabrics Made of a Cotton Warp with a Cotton Yarn Filling, Also Made of a Cotton Warp with a Silk Yarn Filling, Also Made of Silk Warp with Silk Filling.
Claims use since Oct. 1, 1922.

Ser. No. 176,632. (CLASS 17. TOBACCO PRODUCTS.) EDWARD A. KLINE, doing business as E. A. Kline & Co., New York, N. Y. Filed Feb. 26, 1923.



Particular description of goods.—Tobacco Products—Namely, Cigars.
Claims use since September, 1919.

Ser. No. 176,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSS COMPANY, New York, N. Y. Filed Feb. 28, 1923.

WINX

Particular description of goods.—Preparation for Treating the Eyebrows and Eyelashes.
Claims use since Jan. 26, 1923.

Ser. No. 176,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN MILLS WILSON, San Diego, Calif. Filed Feb. 28, 1923.

TOOTH
SLUMBER

Particular description of goods.—Dental Anæsthetic.
Claims use since Jan. 27, 1923.

Ser. No. 176,789. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DYESTUFFS & CHEMICALS, INCORPORATED, St. Louis, Mo. Filed Mar. 1, 1923.

"DYKEM"

Particular description of goods.—Coal-Tar Dyes, Colors, and Intermediates.
Claims use since about January, 1921.

Ser. No. 176,791. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DIAMOND LABORATORIES, INC., Seattle, Wash. Filed Mar. 1, 1923.

Harsmuthe

Particular description of goods.—Hair Dressing.
Claims use since Jan. 9, 1923.

Ser. No. 176,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BEAUTEX LABORATORIES COMPANY, Cleveland, Ohio. Filed Mar. 2, 1923.

JANAY'

Particular description of goods.—Vanishing Cream, Cleansing and Tissue Cream, Cream Powder, Rouge in Compact and Stick Form, and Bleaching Cream.
Claims use since about Dec. 15, 1922.

Ser. No. 176,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LECITHIN COMPANY, New York, N. Y. Filed Mar. 2, 1923.

NeuroViril

Particular description of goods.—Medicinal Composition for Neurasthenic Disorders.
Claims use since August, 1921.

Ser. No. 176,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basle, Switzerland. Filed Mar. 3, 1923.

GYNERGEN

Particular description of goods.—Pharmaceutical Preparation, Being a Uterotonic.
Claims use since June 9, 1921.

Ser. No. 176,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basle, Switzerland. Filed Mar. 3, 1923.

SCILLAREN

Particular description of goods.—Pharmaceutical Preparation, Being a Cardiotonic and Diotonic.
Claims use since May 6, 1922.

Ser. No. 176,912. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVING RODNEY PARSONS, doing business as I. R. Parsons & Co., Chicago, Ill. Filed Mar. 3, 1923.

BAB

Particular description of goods.—Nail Polish in Powder Form.
Claims use since Nov. 1, 1922.

Ser. No. 176,929. (CLASS 2. GAMES, TOYS, AND SPORTING GOODS.) WATER-WITCH COMPANY, Lake Odessa, Mich. Filed Mar. 3, 1923.

WATER WITCH TRADE MARK

No claim is made to the words "Trade Mark."
Particular description of goods.—Artificial Fish Baits.
Claims use since Feb. 1, 1923.

Ser. No. 176,952. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY G. CONNOLLY, Los Angeles, Calif. Filed Mar. 5, 1923.

Breath O'Pine

Particular description of goods.—Aromatic Oils Employed in the Treatment of Diseases of the Throat, Lungs, and Air Passages.
Claims use since about Dec. 15, 1922.

Ser. No. 176,959. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLY-HIKE COMPANY, Springfield, Mo. Filed Mar. 5, 1923.

FLY-HIKE



Particular description of goods.—Liquid Preparation to be Applied Externally Upon the Bodies of Live Stock to Keep and Prevent Flies and Vermin from Annoying the Live Stock.
Claims use since Mar. 1, 1922.

Ser. No. 176,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WARREN D. GILL, Los Angeles, Calif. Filed Mar. 5, 1923.

KIDDIE-MINT

Particular description of goods.—Tooth Paste.
Claims use since Dec. 15, 1922.

Ser. No. 177,027. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. J. WHITE, Chicago, Ill. Filed Mar. 5, 1923.

BESCOE

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Feb. 7, 1923.

Ser. No. 177,028. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN FIBRE CHAIR SEAT CORP., Long Island City, N. Y. Filed Mar. 6, 1923.

"DRAGON" (TUFFIBRE)

No claim is made to the exclusive use of the word "Tuffibre" apart from the mark as shown.
Particular description of goods.—Fiber Chair Seats.
Claims use since about November, 1921.

Ser. No. 177,038. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. FOUGERA & CO., New York, N. Y. Filed Mar. 6, 1923.

SNOWFLUFF

Particular description of goods.—Toilet Powder.
Claims use since Feb. 19, 1923.

Ser. No. 177,051. (CLASS 38. PRINTS AND PUBLICATIONS.) REX WINDOW ADVERTISING CO., INC., New York, N. Y. Filed Mar. 6, 1923.

SALEX

Particular description of goods.—Advertising, Lithographed, Printed, Hand-Painted Paper and Cardboard Signs, Displays, and Billboard Sheets.
Claims use since December, 1921.

Ser. No. 177,072. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE C. G. SPRING COMPANY, Kalamazoo, Mich. Filed Mar. 7, 1923.



Particular description of goods.—Bumpers.
Claims use since about Aug. 14, 1921.

Ser. No. 177,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed Mar. 7, 1923.

QUINISAL

Trade-mark "Quinisal."
Particular description of goods.—Antirheumatic.
Claims use since Feb. 2, 1923.

Ser. No. 177,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOMINICK SWEET, doing business as The Sweet Manufacturing Company, Pittsburgh, Pa. Filed Mar. 7, 1923.

HEALTHSPIRIA

Particular description of goods.—General System Tonic.
Claims use since December, 1922.

Ser. No. 177,119. (CLASS 38. PRINTS AND PUBLICATIONS.) ASSOCIATED EDITORS, Chicago, Ill. Filed Mar. 8, 1923.

PANTOMIME

Particular description of goods.—Title for Cartoons.
Claims use since Aug. 7, 1922.

Ser. No. 177,127. (CLASS 38. PRINTS AND PUBLICATIONS.) HERBERT E. HUGHES, Cincinnati, Ohio. Filed Mar. 8, 1923.

"Help the World grow Better"

Particular description of goods.—Collection of Motto Cards.
Claims use since Oct. 30, 1922.

Ser. No. 177,128. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. N. HUNTER AND CO., Hot Springs, S. Dak. Filed Mar. 8, 1923.

MACA

Particular description of goods.—Ointment for Treating Eczema, Salt Rheum, Chapped Hands, and Other Skin Diseases.
Claims use since Oct. 25, 1922.

Ser. No. 177,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KIL-TONE COMPANY, Vineland, N. J. Filed Mar. 8, 1923.

NICO-TONE

Particular description of goods.—Insecticide.
Claims use since Oct. 17, 1922.

Ser. No. 177,131. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KNOX PHARMACAL COMPANY, Rockland, Me. Filed Mar. 8, 1923.

KIT-TEE-TONE

Particular description of goods.—Tonic for Cats and Kittens.
Claims use since May 1, 1911.

Ser. No. 177,144. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SOCIÉTÉ P. AND A. PICARD, Paris, France. Filed Mar. 8, 1923.

A.P.C.

Particular description of goods.—Knobs, Handles, Including Lever Handles, and Finger Plates, All for Doors.
Claims use since Apr. 22, 1910.

Ser. No. 177,190. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE MILTON MANUFACTURING COMPANY, Milton, Pa. Filed Mar. 9, 1923.



Particular description of goods.—Bolts, Rivets, and Spikes.
Claims use since December, 1922.

Ser. No. 177,263. (CLASS 12. CONSTRUCTION MATERIALS.) ASBESTOS, LIMITED, New York, N. Y. Filed Mar. 12, 1923.

TRUE BLUE

Particular description of goods.—Plastic Roofing Compounds, Slate-Surface Shingles, Strip Shingles, Smooth-Surface Roll Roofing, Slate-Surface Roll Roofing, Asbestos and Patching Cement for Roofing.
Claims use since February, 1923.

Ser. No. 177,200. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SADIE HOLWAY, doing business as Columbia Ave. Beauty Parlor, Philadelphia, Pa. Filed Mar. 12, 1923.

VANDO

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since January, 1922.

Ser. No. 177,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH THOMPSON, Sioux City, Iowa. Filed Mar. 12, 1923.

Smoothair

Particular description of goods.—Hair Dressing.
Claims use since Mar. 1, 1923.

Ser. No. 177,482. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GISHOLT MACHINE COMPANY, Madison, Wis. Filed Mar. 15, 1923.

SIMPLIMATIC

Particular description of goods.—Lathes.
Claims use since Mar. 24, 1921.

Ser. No. 177,497. (CLASS 38. PRINTS AND PUBLICATIONS.) LUXITE LABORATORIES, Kansas City, Mo. Filed Mar. 15, 1923.

TRADE MARK
Luxite
DE LUXE KODAK PRINTS

The right or intention to obtain patent rights to the descriptive words "Trade-Mark" and "De Luxe Kodak Prints" as shown on the original drawing is disclaimed.
Particular description of goods.—Pictures Printed From Camera Negatives.
Claims use since Mar. 1, 1923.

Ser. No. 177,543. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. BRUNO & SON, INC., New York, N. Y. Filed Mar. 16, 1923.

ROYAL ARTIST

Particular description of goods.—Musical Instruments—Namely, Saxophones, Cornets, Trombones, Horn Instruments Known as Altos, Baritones, and Double Basses; Helicons, and Parts Thereof.
Claims use since July, 1922.

Ser. No. 177,545. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERBERT J. CATHCART, doing business as The Cathcart Company, New York, N. Y. Filed Mar. 16, 1923.

COUNTRY CLUB

Particular description of goods.—Handkerchiefs.
Claims use since Jan. 1, 1923.

Ser. No. 177,546. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERBERT J. CATHCART, doing business as The Cathcart Company, New York, N. Y. Filed Mar. 16, 1923.

SILKDRAPE

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 1, 1922.

Ser. No. 177,579. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS BROS. AIRCRAFT CORPORATION, San Francisco, Calif. Filed Mar. 16, 1923.

WILLIAMS
Junior Accelerator

No claim is made to the words "Williams Accelerator" apart from the mark shown in the drawing.
Particular description of goods.—Motor-Vehicle Accelerators.
Claims use since Mar. 8, 1923.

Ser. No. 177,651. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE COLONIAL BRASS WORKS, INC., New Britain, Conn. Filed Mar. 19, 1923.

O

Particular description of goods.—Hand Valves for Gas, Steam, and Water.
Claims use since Feb. 28, 1923.

Ser. No. 177,652. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE COLONIAL BRASS WORKS, INC., New Britain, Conn. Filed Mar. 19, 1923.

OLY

Particular description of goods.—Hand Valves for Gas, Steam, and Water.
Claims use since Feb. 28, 1923.

Ser. No. 177,665. (CLASS 12. CONSTRUCTION MATERIALS.) LORENZO S. FROST, doing business as L. S. Frost, Cambridge, Mass. Filed Mar. 19, 1923.

Stay Rite

Particular description of goods.—Metal Material for Portable Buildings and Metal for Doors and Locks.
Claims use since Oct. 1, 1922.

Ser. No. 177,669. (CLASS 10. VEHICLES, NOT INCLUDING ENGINES.) HUTCHINS CAR ROOFING COMPANY, Detroit, Mich. Filed Mar. 19, 1923.

DRY LADING

Particular description of goods.—Railroad-Car Roof.
Claims use since early in 1920.

Ser. No. 177,687. (CLASS 12. CONSTRUCTION MATERIALS.) NEBRASKA CEMENT COMPANY, Omaha, Nebr., and Denver, Colo. Filed Mar. 19, 1923.

NEBRASKA CEMENT COMPANY
SUPERIOR
SUPERIOR

No claim made for the word "Superior" apart from the mark shown by the drawing.
Particular description of goods.—Portland Cement.
Claims use since June 21, 1917.

Ser. No. 177,749. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MUSKEGON MOTOR SPECIALTIES COMPANY, Muskegon, Mich. Filed Mar. 20, 1923.

Accuralite

Particular description of goods.—Motor Pistons.
Claims use since January, 1923.

Ser. No. 177,792. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JAS. H. MATTHEWS & COMPANY, Pittsburgh, Pa. Filed Mar. 21, 1923.

J.H.M & Co.
TESTED

No claim is made to exclusive rights in the word "Tested" apart from the mark as shown by the drawing.
Particular description of goods.—Forged Bodies for Hand Stamps, Fullered Forgings, and I Forgings.
Claims use since Nov. 1, 1922.

Ser. No. 177,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Filed Mar. 22, 1923.

IR

Particular description of goods.—Edible Oils, Cottonseed Oils, and Vegetable Oils.
Claims use since 1915.

Ser. No. 177,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARRON-GRAY PACKING CO., San Jose, Calif. Filed Mar. 22, 1923.

GREY-BARON

Particular description of goods.—Canned Fruit and Vegetables and Dried Fruit.
Claims use since Jan. 27, 1923.

Ser. No. 177,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARRON-GRAY PACKING CO., San Jose, Calif. Filed Mar. 22, 1923.

TOYON

Particular description of goods.—Canned Fruit and Vegetables and Dried Fruit.
Claims use since Jan. 27, 1923.

Ser. No. 177,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALICE M. BIDDLE, doing business as Carrolton Packing Co., Hanford, Calif. Filed Mar. 22, 1923.

TRAVELERS

Particular description of goods.—Dried Fruit.
Claims use since Oct. 10, 1922.

Ser. No. 177,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN JOAQUIN COUNTY CHERRY GROWERS ASSN., Stockton, Calif. Filed Mar. 22, 1923.

ESKIMO

Particular description of goods.—Fresh Cherries.
Claims use since June 15, 1922.

Ser. No. 177,887. (CLASS 17. TOBACCO PRODUCTS.) THE ZORRO TOBACCO CO., INC., New York, N. Y. Filed Mar. 22, 1923.

CHIVO

Particular description of goods.—Smoking Tobacco.
Claims use since Feb. 5, 1923.

Ser. No. 177,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EASTER FISH COMPANY, Norfolk, Va. Filed Mar. 23, 1923.

THE HOUSE OF 100% QUALITY
ESTABLISHED 1902
EASTER
FISH COMPANY
NORFOLK, VIRGINIA
SERVICE — WEIGHT

Without waiving any rights at common law the applicants disclaim any attempt to cover in this application the words "The House of 100% Quality, Service, Weight, Established 1902, Norfolk, Virginia" except in the precise relation and association in which these words appear in the drawing.
Particular description of goods.—Fresh Fish and Oysters.
Claims use since on or about Mar. 1, 1923.

Ser. No. 177,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. J. CHRISTOPHER CO., Los Angeles, Calif. Filed Mar. 24, 1923.

SUNLAN

Particular description of goods.—Candies.
Claims use since Mar. 9, 1923.

Ser. No. 177,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. J. CHRISTOPHER CO., Los Angeles, Calif. Filed Mar. 24, 1923.



Particular description of goods.—Candies.
Claims use since Mar. 9, 1923.

Ser. No. 177,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DANDA-HALPERN CO., INC., New York, N. Y. Filed Mar. 24, 1923.

FEDORA

Particular description of goods.—Linens and Decorated Linens in the Piece.
Claims use since Feb. 5, 1923.

Ser. No. 177,982. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Mar. 24, 1923.

MAH JONGG

Particular description of goods.—Candy.
Claims use since Dec. 11, 1922.

Ser. No. 178,016. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE AEROSHADE COMPANY, Waukesha, Wis. Filed Mar. 26, 1923.

Koolite
NO-WHIP

Particular description of goods.—Porch and Window Shades.
Claims use since Nov. 24, 1922.

Ser. No. 178,042. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) INLAND ENGINEERING COMPANY, Chicago, Ill. Filed Mar. 26, 1923.

INCO

Particular description of goods.—Manganese-Steel Castings—Namely, Chain Links, Gears, Sprockets, Pinions, Ball Mill Liner Plates, Ball-Mill Breast Plates, Pulverizer Hammers, Crusher Plates, Dipper Teeth.
Claims use since Nov. 15, 1922.

Ser. No. 178,067. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY I. SIFERS, doing business as The Sifers Confection Co., Kansas City, Mo. Filed Mar. 26, 1923.

OLD KING TUT

Particular description of goods.—Candy.
Claims use since Feb. 23, 1923.

Ser. No. 178,082. (CLASS 38. PRINTS AND PUBLICATIONS.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed Mar. 26, 1923.

Yellow Journal

Particular description of goods.—Monthly Periodical.
Claims use since Mar. 15, 1923.

Ser. No. 178,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CELLAS', INC., New York, N. Y. Filed Mar. 27, 1923.



Particular description of goods.—Cottonseed Oil.
Claims use since January, 1923.

Ser. No. 178,095. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE EASTERN FOUNDRY COMPANY, Boyertown, Pa. Filed Mar. 27, 1923.

EAFCO

Particular description of goods.—Cast-Iron Pipe and Fittings and Other Plumbers' Supplies—Namely, Vent Caps, Repair Plates, Water-Box Lids, Plugs for Fresh-Air Inlets, Staple Trap Bells, and No-Bolt Water-Box Lids.
Claims use since about Aug. 23, 1922.

Ser. No. 178,157. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN LARSON VENTILATING CO., Pittsburgh, Pa. Filed Mar. 28, 1923.



The words "American Larson Rotary Ventilators," "Patented Trade-Mark," and "Suction," together with the representation of the ventilator, are disclaimed apart from the mark as shown.
Particular description of goods.—Industrial Ventilators for Buildings, Manufacturing and Industrial Plants, and Structures Requiring Ventilation.
Claims use since Mar. 14, 1923.

Ser. No. 178,256. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MATTHEW R. JOHNSTON, doing business as M. R. Johnston Coffee Co., Baltimore, Md. Filed Mar. 29, 1923.

MRJ

Particular description of goods.—Coffee.
Claims use since Jan. 22, 1923.

Ser. No. 178,266. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDREW MATTEI, Fresno, Calif. Filed Mar. 29, 1923.

ANDIVISTA

Particular description of goods.—Fresh Grapes and Raisins.
Claims use since August, 1922.

Ser. No. 178,298. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS STETELMAN, doing business as Supreme Products Company, Columbus, Ohio. Filed Mar. 29, 1923.

SUPREME

Particular description of goods.—Malt Extract for Food Purposes.
Claims use since Sept. 1, 1920.

Ser. No. 178,324. (CLASS 23. LOCKS AND SAFES.) THE BASSICK COMPANY, Bridgeport, Conn. Filed Mar. 30, 1923.

Bassick

Particular description of goods.—Door Locks.
Claims use since Mar. 19, 1923.

Ser. No. 178,337. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FELLSWAY RUBBER CO., Boston, Mass. Filed Mar. 30, 1923.

FELCO

Particular description of goods.—Rubber Pads for Use in the Textile and Other Industries.
Claims use since Mar. 16, 1923.

Ser. No. 178,357. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RAMAPO AJAX CORPORATION, New York, N. Y. Filed Mar. 30, 1923.

RACOR

Particular description of goods.—Track Switches, Switch Stands, Switch Plates, and Parts Thereof.
Claims use since about Sept. 28, 1922.

Ser. No. 178,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed Mar. 31, 1923.

DAIRYLEA

Particular description of goods.—Condensed Milk and Evaporated Milk.
Claims use since Mar. 1, 1923.

Ser. No. 178,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GOLDEN PHEASANT, INC., San Francisco, Calif. Filed Mar. 31, 1923.

MAH JONGG

Particular description of goods.—Candies.
Claims use since Dec. 24, 1922.

Ser. No. 178,588. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES BOND COMPANY, Philadelphia, Pa. Filed Apr. 5, 1923.

Bondaron

Particular description of goods.—Leather Loom Sundries—Namely, Check Straps, Lug Straps, Jack Straps, Heel Straps, Bumper Straps, Hold-Up Straps, Pickers, Picking Bands, and Comb Aprons.
Claims use since about Apr. 1, 1922.

Ser. No. 178,636. (CLASS 17. TOBACCO PRODUCTS.) STEPHANO BROTHERS, Philadelphia, Pa. Filed Apr. 5, 1923.

SMILES

Particular description of goods.—Cigarettes.
Claims use since Feb. 1, 1923.

Ser. No. 178,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILAN M. SUMONIA, doing business as Sumonia Candy Co., Omaha, Nebr. Filed Apr. 6, 1923.

KING TUT

Particular description of goods.—Candy.
Claims use since March, 1923.

Ser. No. 178,749. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 7, 1923.

JUNIOR TISSUE

No claim is made to the word "Tissue" apart from the other feature of the mark as shown on the drawing.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since September, 1919.

Ser. No. 178,878. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F. STEINER NFG., Atzgersdorf, near Vienna, Austria. Filed Apr. 9, 1923.

RAK

Particular description of goods.—Carriage-Lifting Jacks, More Especially Hydraulics.
Claims use since July, 1921.

Ser. No. 178,880. (CLASS 37. PAPER AND STATIONERY.) STEWART CORPORATION, Chicago, Ill. Filed Apr. 9, 1923.

"MAGIKID"

Trade-mark consists of the word "Magikid."
Particular description of goods.—Writing and Drawing Surfaces, Such as Pads and Tablets.
Claims use since Mar. 16, 1923.

Ser. No. 178,970. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

"2322"

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 19, 1916.

Ser. No. 178,971. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

ROXANE

Particular description of goods.—Silk Piece Goods.
Claims use since July 10, 1922.

Ser. No. 178,973. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

PRIOLA

Particular description of goods.—Silk Piece Goods.
Claims use since July 10, 1922.

Ser. No. 178,974. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

TROIKA

Particular description of goods.—Silk Piece Goods.
Claims use since June 10, 1922.

Ser. No. 178,975. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

ROMULUS

Particular description of goods.—Silk Piece Goods.
Claims use since July 10, 1922.

Ser. No. 178,976. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

RAMESES

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 14, 1923.

Ser. No. 178,977. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

OSIRIS

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 14, 1923.

Ser. No. 178,978. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

ASTARTE

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 14, 1923.

Ser. No. 178,979. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 11, 1923.

ASSUAN

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 14, 1923.

Ser. No. 178,986. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Velmara

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,988. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Mirrova

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,990. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Melveen

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,991. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Heronda

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,995. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Sardona

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 7, 1923.

Ser. No. 178,996. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Charminette

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1923.

Ser. No. 178,997. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Apr. 11, 1923.

Veldereine

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1923.

Ser. No. 179,176. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTHER MANUFACTURING CO., Philadelphia, Pa. Filed Apr. 14, 1923.

CLEORONA

Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.
Claims use since about Apr. 6, 1923.

Ser. No. 179,177. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTHER MANUFACTURING CO., Philadelphia, Pa. Filed Apr. 14, 1923.

CLEOCOVA

Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.
Claims use since about Apr. 9, 1923.

Ser. No. 179,318. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL SILK PRINTING COMPANY, Haledon, N. J. Filed Apr. 18, 1923.

MAH-JONGG

Particular description of goods.—Silk Piece Goods.
Claims use since Mar. 15, 1923.

Ser. No. 179,371. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HOOSIER MANUFACTURING CO., Indianapolis, Ind. Filed Apr. 19, 1923.

HOOSIER KNOXALL SOAP

No claim made to the word "Soap."
Particular description of goods.—Soap Compounds.
Claims use since about December, 1895.

Ser. No. 179,399. (CLASS 37. PAPER AND STATIONERY.) COX, HUNT AND COMPANY, New York, N. Y. Filed Apr. 20, 1923.

MAJOR

Particular description of goods.—Paper — Namely, Wrapping Paper, Bond Paper, Writing Papers, Tissue Papers, Coated Papers, Printing Papers, and Box-Covering Papers.
Claims use since July 28, 1922.

Ser. No. 179,416. (CLASS 17. TOBACCO PRODUCTS.) PHILIP MORRIS & CO. LTD., New York, N. Y. Filed Apr. 20, 1923.



Particular description of goods.—Cigarettes.
Claims use since Feb. 15, 1919.

Ser. No. 179,428. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) POOLE ENGINEERING AND MACHINE COMPANY, Baltimore and Woodberry, Baltimore, Md. Filed Apr. 20, 1923.

POOLE

Particular description of goods.—Power and Hand Operated Washing Machines.
Claims use since Oct. 19, 1921.

Ser. No. 179,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES A. BAGGETT, doing business as Submarine Pyorrhea Co., Dallas, Tex. Filed Apr. 21, 1923.

SUBMARINE

Particular description of goods.—Tooth Paste or Dental Cream.
Claims use since Oct. 15, 1922.

Ser. No. 179,486. (CLASS 17. TOBACCO PRODUCTS.) RUDOLPH SCHWARTZ, San Francisco, Calif. Filed Apr. 21, 1923.

WEST COAST



Particular description of goods.—Cigars.
Claims use since Jan. 10, 1923.

Ser. No. 179,619. (CLASS 37. PAPER AND STATIONERY.) CHARLES MCDOWELL, doing business as McDowell Paper Mills, Manayunk, Pa. Filed Apr. 24, 1923.

HERCULES

Particular description of goods.—Glassine, Greaseproof, Imitation-Parchments, Writing, Wrapping, Fiber, Enamel, and Manifold Paper.
Claims use since about 1903; on glassine paper since 1916.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 12, 1923.

169,130. RUBBER TIRES, TIRE CASINGS, AND INNER TUBES. THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed November 14, 1919. Serial No. 114,161. PUBLISHED FEBRUARY 27, 1923.

169,131. PNEUMATIC TIRES FOR MOTOR DRIVEN VEHICLES. THE WILLYS-OVERLAND COMPANY, Toledo, Ohio.
Filed September 25, 1919. Serial No. 123,149. PUBLISHED FEBRUARY 27, 1923.

169,132. CANDY AND CONFECTIONS—NAMELY, CHOCOLATES, CHOCOLATE BARS AND CAKES, AND CHOCOLATE NUT BARS, PEANUT BARS, ALMOND BARS. THE TOURAINE COMPANY, Boston, Mass.
Filed January 27, 1920. Serial No. 127,669. PUBLISHED APRIL 20, 1920.

169,133. MOTOR CARS. GRANT MOTOR CAR CORPORATION, Cleveland, Ohio.
Filed May 11, 1920. Serial No. 132,337. PUBLISHED FEBRUARY 27, 1923.

169,134. MOTOR TRUCKS. JAMES H. PIERCE, Bay City, Mich.
Filed October 8, 1920. Serial No. 138,098. PUBLISHED MARCH 27, 1923.

169,135. CANDY. U. R. S. CANDY STORES, INC., Long Island City, N. Y.
Filed October 27, 1921. Serial No. 154,675. PUBLISHED MARCH 27, 1923.

169,136. TUBULAR WHEELBARROWS, CONTRACTORS' WHEELBARROWS, AND CONCRETE CARTS. THE AKRON BARROW COMPANY, Akron and Cleveland, Ohio.
Filed November 2, 1921. Serial No. 154,909. PUBLISHED MARCH 13, 1923.

169,137. ONE, TWO, THREE, AND FIVE POUND BOXES OF ASSORTED CHOCOLATES. ALLEGRETTI CHOCOLATE CREAM CO., Chicago, Ill.
Filed November 17, 1921. Serial No. 155,469. PUBLISHED AUGUST 1, 1922.

169,138. FABRICATED STRUCTURAL STEEL AND REENFORCING BARS FOR CONCRETE CONSTRUCTION. CONSOLIDATED STEEL CORPORATION, New York, N. Y.
Filed November 17, 1921. Serial No. 155,485. PUBLISHED MARCH 13, 1923.

169,139. CUP PACKINGS FORMED OF VULCANIZED FABRIC. MONTPELIER MANUFACTURING COMPANY, Montpelier, Ind.
Filed November 17, 1921. Serial No. 155,510. PUBLISHED FEBRUARY 27, 1923.

169,140. CANNED FRUITS, OLIVES, AND FRUIT JAMS. VIRDEN PACKING COMPANY, South San Francisco, Calif.
Filed November 21, 1921. Serial No. 155,716. PUBLISHED MARCH 27, 1923.

169,141. PNEUMATIC VEHICLE TIRES COMPOSED OF RUBBER OR FABRIC AND RUBBER AND INNER TUBES. THE INDIA TIRE AND RUBBER COMPANY, Akron and Mogadore, Ohio.
Filed November 22, 1921. Serial No. 155,757. PUBLISHED MARCH 13, 1923.

169,142. TRANSMISSION LININGS. LEWIS L. LIBBY, doing business as Libby Manufacturing Company, Plainfield, N. J.
Filed December 5, 1921. Serial No. 156,284. PUBLISHED MARCH 13, 1923.

169,143. GAS HEATERS. GUSTAVE F. SCHMIDT, Chicago, Ill.
Filed December 23, 1921. Serial No. 157,078. PUBLISHED MARCH 20, 1923.

169,144. MOTOR-PROPELLED TRUCKS. CLARK TRUCTRACTOR COMPANY, Buchanan, Mich.
Filed December 27, 1921. Serial No. 157,136. PUBLISHED FEBRUARY 27, 1923.

169,145. SPARK CATCHER FOR LOCOMOTIVES. EMMA BRONSON, Waldo, Kans.
Filed December 28, 1921. Serial No. 157,206. PUBLISHED MARCH 13, 1923.

169,146. HEAT-GENERATING PLANTS COMPRISING OIL TANKS, MOTORS, FANS, PUMPS, VALVES, BURNERS, MOTOR REGULATORS, THERMOSTATS, AND RELAYS. WINSLOW BOILER & ENGINEERING CO., Chicago, Ill.
Filed January 16, 1922. Serial No. 158,025. PUBLISHED FEBRUARY 27, 1923.

169,147. COVERS FOR AUTOMOBILE SPRINGS. DASCO SPRING COVER CO., Somerville, Mass.
Filed February 27, 1922. Serial No. 159,854. PUBLISHED MARCH 13, 1923.

169,148. RUBBER HOSE AND BELTING. NEW YORK RUBBER COMPANY, New York, N. Y.
Filed March 17, 1922. Serial No. 160,828. PUBLISHED FEBRUARY 27, 1923.

169,149. ROOFING AND SHEATHING FELT. THE BARRETT COMPANY, New York, N. Y.
Filed March 21, 1922. Serial No. 160,992. PUBLISHED FEBRUARY 27, 1923.

169,150. CHILDREN'S SUITS. WILLIAM HECHT, doing business as Hecht & Company, New York, N. Y.
Filed April 24, 1922. Serial No. 162,816. PUBLISHED MARCH 27, 1923.

169,151. VEHICLE AXLES, VEHICLE WHEELS, MOUNTED WHEELS FOR VEHICLES, AND METAL TIRES. CONSOLIDATED STEEL CORPORATION, New York, N. Y.
Filed April 27, 1922. Serial No. 162,982. PUBLISHED MARCH 13, 1923.

169,152. GOLF CLUBS. GOLF SPECIALTY MANUFACTURING COMPANY, Baltimore, Md.
Filed May 12, 1922. Serial No. 163,753. PUBLISHED MARCH 20, 1923.

169,153. CERTAIN NAMED SEALS AND CLOSURES FOR BOTTLES AND CORK COMPOSITION IN THE SHEET OR BLOCK FORM. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 23, 1922. Serial No. 164,292. PUBLISHED MARCH 27, 1923.

169,154. CERTAIN NAMED SEALS AND CLOSURES FOR BOTTLES AND CORK COMPOSITION IN THE SHEET OR BLOCK FORM. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 23, 1922. Serial No. 164,294. PUBLISHED MARCH 13, 1923.

169,155. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed June 13, 1922. Serial No. 165,447. PUBLISHED MARCH 13, 1923.

169,156. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed June 13, 1922. Serial No. 165,448. PUBLISHED MARCH 13, 1923.

169,157. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed June 13, 1922. Serial No. 165,449. PUBLISHED MARCH 13, 1923.

169,158. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed June 13, 1922. Serial No. 165,450. PUBLISHED MARCH 13, 1923.

169,159. COAL STOVES AND RANGES. ABRAM COX STOVE COMPANY, Philadelphia, Pa.
Filed June 17, 1922. Serial No. 165,619. PUBLISHED MARCH 13, 1923.

169,160. POP-CORN CONFECTION. EDWARD C. WAGNER & SON, Chicago, Ill.
Filed June 17, 1922. Serial No. 166,650. PUBLISHED MARCH 27, 1923.

169,161. LUMINOUS PENDANTS FOR USE WITH ELECTRICAL SWITCHES AND LAMPS. THE LUMINITE CORPORATION, Newark, N. J.
Filed June 22, 1922. Serial No. 165,876. PUBLISHED MARCH 13, 1923.

169,162. CANDY. HELEN WATERMAN, Orange, N. J.
Filed July 1, 1922. Serial No. 166,425. PUBLISHED MARCH 27, 1923.

169,163. OLIVE OIL. F. & J. DI PALMA, New York, N. Y.
Filed July 14, 1922. Serial No. 166,878. PUBLISHED MARCH 27, 1923.

169,164. FERMENTED BOTTLED MILK. LEDERLE ANTITOXIN LABORATORIES, New York, N. Y.
Filed July 20, 1922. Serial No. 167,186. PUBLISHED MARCH 27, 1923.

169,165. SPARK AND THROTTLE CONTROL LEVERS FOR MOTOR VEHICLES. HENRY'S HANDY HANDLES CO., Los Angeles, Calif.
Filed July 21, 1922. Serial No. 167,176. PUBLISHED MARCH 13, 1923.

169,166. BICYCLES, AUTOMOBILES, MOTOR CYCLES, TRICYCLES, AND BICYCLETTES. LA SOCIETE ANONYME DES AUTOMOBILES UNIC, Puteaux, France.
Filed July 22, 1922. Serial No. 167,249. PUBLISHED MARCH 13, 1923.

169,167. METALLIC PACKING. METALASTIC COMPANY, New York, N. Y.
Filed July 24, 1922. Serial No. 167,310. PUBLISHED FEBRUARY 27, 1923.

169,168. MALT EXTRACT FOR FOOD PURPOSES. PRIMALT PRODUCTS CO., Chicago, Ill.
Filed July 26, 1922. Serial No. 167,418. PUBLISHED MARCH 27, 1923.

169,169. PLUMBING AND STEAM-FITTING SUPPLIES. JOHN A. ZURN, doing business as J. A. Zurn Manufacturing Company, Erie, Pa.
Filed July 28, 1922. Serial No. 167,544. PUBLISHED MARCH 20, 1923.

169,170. CERTAIN NAMED MACHINERY PACKING AND BRAKE LINING. JOHNS-MANVILLE, INCORPORATED, New York, N. Y.
Filed August 4, 1922. Serial No. 167,818. PUBLISHED MARCH 13, 1923.

169,171. MOTION-PICTURE FILMS. ORPHO C. GETSINGER, Los Angeles, Calif.
Filed August 15, 1922. Serial No. 168,261. PUBLISHED MARCH 20, 1923.

169,172. MEN'S AND YOUNG MEN'S SERGE SUITS. B. MANDEL'S SONS, Philadelphia, Pa.
Filed August 21, 1922. Serial No. 168,539. PUBLISHED MARCH 20, 1923.

169,173. DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, COLLARS, PYJAMAS, AND NIGHTSHIRTS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed September 2, 1922. Serial No. 169,033. PUBLISHED MARCH 20, 1923.

169,174. TOILET PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed September 5, 1922. Serial No. 169,074. PUBLISHED MARCH 20, 1923.

169,175. NECKTIES. ADOLF SCHRETER, Baltimore, Md.
Filed September 11, 1922. Serial No. 169,331. PUBLISHED MARCH 20, 1923.

169,176. MOUTH ORGANS, ACCORDIONS, FLUTES, AND FLAGEOLETS. MICHAEL FRANCOIS ALBERT, doing business as J. Albert and Son, Sydney, New South Wales, Australia.
Filed September 15, 1922. Serial No. 169,488. PUBLISHED MARCH 6, 1923.

169,177. LADIES' SUITS, COATS, AND DRESSES. N. BRODY & CO., New York, N. Y.
Filed September 16, 1922. Serial No. 169,527. PUBLISHED MARCH 20, 1923.

169,178. METAL CULINARY, HOUSEHOLD, AND DAIRY UTENSILS. LISK MANUFACTURING COMPANY, LTD., Canandaigua, N. Y.
Filed September 23, 1922. Serial No. 169,860. PUBLISHED MARCH 20, 1923.

169,179. RUBBER VEHICLE TIRES AND TUBES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed September 19, 1922. Serial No. 169,674. PUBLISHED MARCH 20, 1923.

169,180. REFRIGERATORS. C. V. HILL & CO. INC., Trenton, N. J.
Filed October 3, 1922. Serial No. 170,247. PUBLISHED MARCH 20, 1923.

169,181. SOFT DRINKS. A. LAW VOGE, doing business as Egoval Chemical Co., New York, N. Y.
Filed November 22, 1922. Serial No. 172,406. PUBLISHED MARCH 27, 1923.

169,182. COVER PAPER. PENINSULAR PAPER COMPANY, Ypsilanti, Mich.
Filed November 25, 1922. Serial No. 172,554. PUBLISHED MARCH 20, 1923.

169,183. REPRODUCERS FOR PHONOGRAPHS AND OTHER TALKING MACHINES. THE CLARAVOX COMPANY, Youngstown, Ohio.
Filed November 27, 1922. Serial No. 172,583. PUBLISHED MARCH 6, 1923.

169,184. CARBURETORS. ISIDRO RODRIGUEZ ZARRACINA, Valladolid, Spain.
Filed November 29, 1922. Serial No. 172,711. PUBLISHED MARCH 27, 1923.

169,185. MASQUERADE OUTFITS. DESSART BROTHERS INC., Brooklyn, N. Y.
Filed December 6, 1922. Serial No. 172,979. PUBLISHED MARCH 20, 1923.

169,186. MASQUERADE OUTFITS. DESSART BROTHERS INC., Brooklyn, N. Y.
Filed December 6, 1922. Serial No. 172,980. PUBLISHED MARCH 20, 1923.

169,187. MASQUERADE OUTFITS. DESSART BROTHERS INC., Brooklyn, N. Y.
Filed December 6, 1922. Serial No. 172,981. PUBLISHED MARCH 20, 1923.

169,188. PIANOS. H. C. BAY COMPANY, Chicago, Ill.
Filed December 8, 1922. Serial No. 173,069. PUBLISHED MARCH 6, 1923.

169,189. TENNIS-RACKET STRINGS. A. G. SPALDING & BROS., New York, N. Y.
Filed December 18, 1922. Serial No. 173,541. PUBLISHED MARCH 20, 1923.

169,190. UKULELE PEGS, BANJO PEGS; UKULELE, MANDOLIN, BANJO, AND GUITAR TAILPIECES; MANDOLIN, BANJO, AND GUITAR PATENT HEADS; RESONATORS, ARM RESTS, LEG RESTS, AND BANJO HOOPS. WAVERLY MUSICAL PRODUCTS CO., INC., New York, N. Y.
Filed January 13, 1923. Serial No. 174,601. PUBLISHED MARCH 6, 1923.

169,191. INDOOR GOLF GAMES. MODERN DEVICES, INC., Rockford, Ill.
Filed January 25, 1923. Serial No. 175,097. PUBLISHED MARCH 27, 1923.

169,192. TOY CONSTRUCTION SETS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed January 27, 1923. Serial No. 175,192. PUBLISHED MARCH 27, 1923.

169,193. PATCHES FOR AUTOMOBILE TUBES. THE WEAR-EVER PATCH MFG. CO., INC., Columbus, Ohio.
Filed September 25, 1922. Serial No. 169,941. PUBLISHED FEBRUARY 27, 1923.

169,194. PNEUMATIC TUBES. NORTH AMERICAN PROCESS COMPANY, INC., Malone, N. Y.
Filed September 25, 1922. Serial No. 169,919. PUBLISHED FEBRUARY 27, 1923.

169,195. FABRICATED BOX TOES AND BOX-TOE MATERIAL FOR USE IN BOOTS AND SHOES. FRANK W. WHITCHER COMPANY, Portland, Me., and Boston, Mass.
Filed September 23, 1922. Serial No. 169,882. PUBLISHED MARCH 13, 1923.

169,196. MILK CULTURE. LACTEAL ANALYTICAL LABORATORIES, INC., Buffalo, N. Y.
Filed September 21, 1922. Serial No. 169,767. PUBLISHED MARCH 27, 1923.

169,197. SHELLED NUTS IN THEIR NATURAL STATE. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed September 21, 1922. Serial No. 169,744. PUBLISHED MARCH 27, 1923.

169,198. COAL RANGES, COAL STOVES, WOOD STOVES, GAS STOVES, AND PIPELESS FURNACES. FRIES, BEALL & SHARP CO., INC., Washington, D. C.
Filed September 18, 1922. Serial No. 169,587. PUBLISHED MARCH 13, 1923.

169,199. SMOKERS' ARTICLES—VIZ, CIGAR LIGHTERS, COMBINATION ASH TRAYS AND LIGHTERS. MAX E. BERNHARDT, New York, N. Y.
Filed September 13, 1922. Serial No. 169,394. PUBLISHED MARCH 13, 1923.

169,200. REFRACTORY BRICKS AND SPECIAL SHAPES OF CLAY, TILE, AND BRICK. AMERICAN REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed September 5, 1922. Serial No. 169,047. PUBLISHED FEBRUARY 27, 1923.

169,201. REFRACTORY BRICKS AND SPECIAL SHAPES OF CLAY, TILE, AND BRICK. AMERICAN REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed September 5, 1922. Serial No. 169,046. PUBLISHED FEBRUARY 27, 1923.

169,202. LASTS. SCHELTER LAST COMPANY, INC., Rochester, N. Y.
Filed September 1, 1922. Serial No. 168,984. PUBLISHED MARCH 13, 1923.

169,203. AUTOMOBILE ACCESSORIES. HAINES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed August 30, 1922. Serial No. 168,888. PUBLISHED MARCH 13, 1923.

169,204. MINT CONFECTION. L. P. LARSON, JR. COMPANY, Chicago, Ill.
Filed August 28, 1922. Serial No. 168,770. PUBLISHED MARCH 27, 1923.

169,205. CHEWING GUM. L. P. LARSON, JR. COMPANY, Chicago, Ill.
Filed August 28, 1922. Serial No. 168,769. PUBLISHED MARCH 27, 1923.

169,206. ELEVATING INDUSTRIAL TRUCKS AND STRUCTURAL PARTS THEREOF. THE BAKER R & L COMPANY, Cleveland, Ohio.
Filed August 26, 1922. Serial No. 168,705. PUBLISHED MARCH 13, 1923.

169,207. CANNED FRUITS AND VEGETABLES. KINGS COUNTY PACKING COMPANY, Armona, Calif.
Filed August 18, 1922. Serial No. 168,418. PUBLISHED MARCH 27, 1923.

169,208. CERTAIN NAMED HEATING APPARATUS. HAUCK MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed August 17, 1922. Serial No. 168,365. PUBLISHED MARCH 20, 1923.

169,209. STONE VENEER FOR WALLS, BUILDING BLOCKS, BRICKS, COLUMNS, TILES, MANTELS, FACINGS, DRAIN TILES AND PIPES, CORNICES, AND WINDOW SILLS. JOHN W. NEWMAN, Hendersonville, N. C.
Filed August 16, 1922. Serial No. 168,330. PUBLISHED MARCH 13, 1923.

169,210. CANNED FRUITS. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 10, 1922. Serial No. 168,044. PUBLISHED MARCH 27, 1923.

169,211. ANIMAL TRAPS. VÁCSLAV C. KARDA, New York, N. Y.
Filed August 7, 1922. Serial No. 167,878. PUBLISHED MARCH 13, 1923.

169,212. STEPLADDERS. THE DAYTON SAFETY LADDER COMPANY, Dayton, Ohio.
Filed July 31, 1922. Serial No. 167,605. PUBLISHED MARCH 13, 1923.

169,213. SALAD-DRESSING POWDER AND CAKE-ICING POWDER. THE MILLS BROTHERS COMPANY, doing business as American Products Company, Cincinnati, Ohio.
Filed December 7, 1920. Serial No. 140,737. PUBLISHED MARCH 20, 1923.

169,214. MEN'S AND YOUNG MEN'S CLOTHING. P. H. DAVIS TAILORING COMPANY, Cincinnati, Ohio.
Filed April 12, 1921. Serial No. 146,069. PUBLISHED DECEMBER 20, 1921.

169,215. OVERALLS, PANTS, SHIRTS, AND WORK SHIRTS. OKLAHOMA GARMENT MANUFACTURING CO., Oklahoma, Okla.
Filed June 18, 1921. Serial No. 149,348. PUBLISHED MARCH 13, 1923.

169,216. PENHOLDERS AND BLACK AND COLORED PENCILS. HALSEY DUNWOODY, Paris, France.
Filed July 8, 1921. Serial No. 150,154. PUBLISHED MARCH 20, 1923.

169,217. CERTAIN NAMED STEELS. SAMUEL WARREN LIMITED, Sheffield, England.
Filed September 3, 1921. Serial No. 152,599. PUBLISHED MARCH 20, 1923.

169,218. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. SAMUEL WARREN LIMITED, Sheffield, England.
Filed September 3, 1921. Serial No. 152,600. PUBLISHED MARCH 20, 1923.

169,219. SAUCE FOR MEATS, FISH, SOUPS, SALADS, AND POTATOES. FELIX BLACKBURN, Springfield, Mass.
Filed September 21, 1921. Serial No. 153,172. PUBLISHED JANUARY 17, 1922.

169,220. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed October 1, 1921. Serial No. 153,625. PUBLISHED MARCH 20, 1923.

169,221. MILLING FIXTURES, MILLING-CUTTER GRINDERS, MILLING CUTTERS, AND MILLING MACHINES. THE INGERSOLL MILLING MACHINE COMPANY, Rockford, Ill.
Filed October 17, 1921. Serial No. 154,194. PUBLISHED MARCH 27, 1923.

169,222. LARD SUBSTITUTE AND SHORTENING COMPOSED OF FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill.
Filed January 17, 1922. Serial No. 158,062. PUBLISHED MARCH 20, 1923.

169,223. LIQUID-LEVEL INDICATORS. PORTER ELECTRIC CARBURETER, INC., New York, N. Y.
Filed January 19, 1922. Serial No. 158,142. PUBLISHED MARCH 20, 1923.

169,224. GRINDING MACHINES AND PARTS OF SAME. JOH CHR. SCHMIDT, Copenhagen, Denmark.
Filed February 20, 1922. Serial No. 159,626. PUBLISHED MARCH 20, 1923.

169,225. SLABS AND SHEETS OF RUBBER COMPOSITION MATERIAL PARTICULARLY FOR USE IN FORMING SHOE SOLES. JOHN E. CABLE, doing business as Edison Rubber Co., Akron, Ohio.
Filed March 14, 1922. Serial No. 160,660. PUBLISHED AUGUST 15, 1922.

169,226. COFFEE AND TEA. C. H. KRONENBERGER & Co., Baltimore, Md.
Filed June 6, 1922. Serial No. 165,085. PUBLISHED MARCH 20, 1923.

169,227. FOOD PREPARATIONS OF CHOCOLATE, MILK, AND SUGAR, AND COCOA, MILK, AND SUGAR. H. BLOUNT HUNTER, doing business as The Chocolishus Company, Norfolk, Va.
Filed June 13, 1922. Serial No. 165,444. PUBLISHED MARCH 20, 1923.

169,228. WRITING INK AND WRITING FLUID IN VARIOUS COLORS. GUILD PRODUCTS CORPORATION, Philadelphia, Pa.
Filed June 15, 1922. Serial No. 165,545. PUBLISHED MARCH 6, 1923.

169,229. CONFECTIONERY IN THE FORM OF FROZEN DAINTIES. FRED. C. COLUCCI, Ashtabula, Ohio.
Filed June 30, 1922. Serial No. 166,290. PUBLISHED MARCH 20, 1923.

169,230. BOYS' BLOUSES. MAX FINKELSON, New York, N. Y.
Filed July 25, 1922. Serial No. 167,351. PUBLISHED MARCH 13, 1923.

169,231. FIRE-PREVENTION APPARATUS AND SYSTEMS AND PARTS THEREOF. PACIFIC FIRE EXTINGUISHER COMPANY, San Francisco, Calif.
Filed July 26, 1922. Serial No. 167,414. PUBLISHED JANUARY 9, 1923.

169,232. CERTAIN ARTICLES OF FOUNDRY EQUIPMENT. TRUSCON STEEL COMPANY, Youngstown, Ohio.
Filed August 1, 1922. Serial No. 167,697. PUBLISHED MARCH 20, 1923.

169,233. CIGARETTTES. MICHAEL S. JORDANIDES, New York, N. Y.
Filed December 14, 1922. Serial No. 173,328. PUBLISHED MARCH 20, 1923.

169,234. MOTOR CYCLES. ACE MOTOR CORPORATION, Philadelphia, Pa.
Filed February 12, 1923. Serial No. 175,908. PUBLISHED MARCH 13, 1923.

169,235. GAS WATER HEATERS. BASTIAN-MORLEY CO., La Porte, Ind.
Filed December 29, 1922. Serial No. 173,951. PUBLISHED MARCH 13, 1923.

169,236. SPARK TIMERS FOR INTERNAL-COMBUSTION ENGINES. EARL W. TURNER, doing business as Turner Mfg. Co., Kokomo, Ind.
Filed December 13, 1922. Serial No. 173,302. PUBLISHED MARCH 6, 1923.

169,237. WARM-AIR FURNACES. THE W. G. MCPHERSON COMPANY, Portland, Oreg.
Filed November 27, 1922. Serial No. 172,626. PUBLISHED MARCH 13, 1923.

169,238. RADIO RECEIVING SETS AND PARTS THEREOF. R-W MANUFACTURING CO., Chicago, Ill.
Filed November 21, 1922. Serial No. 172,357. PUBLISHED MARCH 6, 1923.

169,239. EMERY-WHEEL DRESSERS. GEORGE MCCONNELL, doing business as Desmond-Stephan Manufacturing Company, Urbana, Ohio.
Filed November 20, 1922. Serial No. 172,279. PUBLISHED MARCH 20, 1923.

169,240. FUEL CONTROL OR REGULATOR FOR A CARBURETOR. E. E. FORD MFG. CO., New York, N. Y.
Filed November 17, 1922. Serial No. 172,150. PUBLISHED MARCH 20, 1923.

169,241. HAND-PROPELLED CONVEYANCES FOR CHILDREN AND THE LIKE. THE FILBERT-GREER MANUFACTURING COMPANY, Dayton, Ohio, assignor to The Tiny Toter Manufacturing Company, Dayton, Ohio, a Corporation of Ohio.
Filed June 6, 1922. Serial No. 165,077. PUBLISHED MARCH 13, 1923.

169,242. CERTAIN NAMED CONSTRUCTION MATERIALS. CERAMIC PRODUCTS CORP., Old Bridge, N. J.
Filed September 27, 1922. Serial No. 169,967. PUBLISHED MARCH 13, 1923.

169,243. AXES. MORSEN-DUNNEGAN-RYAN CO., El Paso, Tex.
Filed September 29, 1922. Serial No. 170,074. PUBLISHED MARCH 20, 1923.

169,244. NONMETALLIC SHEET MATERIAL FORMED FROM TEXTILE MATERIAL AND A BINDER. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed October 10, 1922. Serial No. 170,524. PUBLISHED MARCH 13, 1923.

169,245. ELECTRIC APPARATUS FOR RADIOSIGNALING—NAMELY, TRANSFORMERS, AMPLIFIERS, RECEIVERS, TRANSMITTERS, AND PARTS THEREOF. FEDERAL INSTITUTE OF RADIO TELEGRAPHY, Camden, N. J.
Filed October 12, 1922. Serial No. 170,633. PUBLISHED FEBRUARY 27, 1923.

169,246. CANNED FRUITS. MT. ANGEL PRODUCERS PACKING CO., Mount Angel, Oreg.
Filed October 13, 1922. Serial No. 170,689. PUBLISHED MARCH 27, 1923.

169,247. WATERPROOF FABRICS. ARCHER STRAUSS RUBBER COMPANY, Framingham, Mass.
Filed October 14, 1922. Serial No. 170,705. PUBLISHED MARCH 13, 1923.

169,248. CANDY. MCDOWELL, PYLE & CO., INC., Baltimore, Md.
Filed October 14, 1922. Serial No. 170,723. PUBLISHED MARCH 27, 1923.

169,249. VANILLA EXTRACT. MARION C. PALMER, doing business as Marolyn Extract Co., Lynn, Mass.
Filed October 14, 1922. Serial No. 170,731. PUBLISHED MARCH 27, 1923.

169,250. ELECTRIC-LAMP STANDS OR BASES AND FIXTURES THEREFOR. THE JEFFERSON COMPANY, Follansbee, W. Va.
Filed October 16, 1922. Serial No. 170,768. PUBLISHED MARCH 6, 1923.

169,251. MOVING VANS OR TRUCKS. WARD B. HINER, doing business as Red Ball Transit Company, Indianapolis, Ind.
Filed September 25, 1922. Serial No. 170,920. PUBLISHED MARCH 13, 1923.

169,252. A VACUUM-OPERATED MECHANICAL STOP SIGNAL AND DIRECTION-INDICATING DEVICE FOR AUTOMOBILES. AUTOMOBILE APPLIANCES Co., Philadelphia, Pa.
Filed October 19, 1922. Serial No. 170,923. PUBLISHED MARCH 20, 1923.

169,253. DECORATIVE LANTERNS. WALTER S. LAFANS, doing business as The Bethelite Co., Minneapolis, Minn.
Filed October 20, 1922. Serial No. 170,980. PUBLISHED MARCH 27, 1923.

169,254. BICYCLES. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed October 21, 1922. Serial No. 171,050. PUBLISHED FEBRUARY 27, 1923.

169,255. CANDY. THE HOOD CANDY CO., Pueblo, Colo.
Filed October 25, 1922. Serial No. 171,188. PUBLISHED MARCH 27, 1923.

169,256. CANDY—NAMELY, MOLASSES CANDY, FRUIT CANDY, AND CHOCOLATE CANDY. MARSHALL CANDY COMPANY, Brooklyn, N. Y.
Filed October 26, 1922. Serial No. 171,227. PUBLISHED MARCH 27, 1923.

169,257. CANNED FRUITS AND VEGETABLES. ATASCADERO FRUIT EXCHANGE, Atascadero, Calif.
Filed October 28, 1922. Serial No. 171,300. PUBLISHED MARCH 27, 1923.

169,258. RAZORS, POCKETKNIVES, AND SCISSORS. UNION CUTLERY CO., Olean, N. Y.
Filed November 7, 1922. Serial No. 171,714. PUBLISHED MARCH 20, 1923.

169,259. METAL CUTTERS FOR CUTTING REENFORCED-CONCRETE BARS AND WIRE RIGGING. HUTCHISON SCOTT, New York, N. Y.
Filed November 14, 1922. Serial No. 172,016. PUBLISHED MARCH 20, 1923.

169,260. GAS RANGES. A-B STOVE COMPANY, Battle Creek, Mich.
Filed November 16, 1922. Serial No. 172,073. PUBLISHED MARCH 13, 1923.

169,261. CORKS. BIERTUEMPFEL BROS. CORK COMPANY, Newark, N. J.
Filed November 16, 1922. Serial No. 172,076. PUBLISHED MARCH 13, 1923.

169,262. MECHANICS' WRENCHES, HAMMERS, PLIERS, AND PINCERS. BANGERT IMPROVED TOOL CO. INC., Union, N. J., assignor, by mesne assignments, to Adolph Bangert, Jersey City, N. J.
Filed January 18, 1922. Serial No. 158,073. PUBLISHED MARCH 20, 1923.

169,263. FRESH GRAPES. ASSOCIATED GROWERS INC., Lodi, Calif.
Filed January 3, 1922. Serial No. 157,402. PUBLISHED MARCH 27, 1923.

169,264. PORTABLE AND NONPORTABLE ELECTRICAL LAMPS. SAMUEL FROST, New York, N. Y.
Filed November 28, 1921. Serial No. 155,999. PUBLISHED SEPTEMBER 26, 1922.

169,265. CERTAIN NAMED MACHINES AND PARTS THEREOF. CONSOLIDATED STEEL CORPORATION, New York, N. Y.
Filed November 17, 1921. Serial No. 155,487. PUBLISHED MARCH 20, 1923.

169,266. CERTAIN ARTICLES OF IRON OR STEEL, WROUGHT AND UNWROUGHT. CONSOLIDATED STEEL CORPORATION, New York, N. Y.
Filed November 17, 1921. Serial No. 155,486. PUBLISHED MARCH 20, 1923.

169,267. HOSIERY. MARGOLIS YELEN KAISER CO. INC., Chicago, Ill.
Filed November 9, 1921. Serial No. 155,231. PUBLISHED MARCH 20, 1923.

169,268. HOSIERY. W. C. VAN BRUNT, New York, N. Y., assignor to Empire Hosiery Corporation, a Corporation of New York.
Filed October 21, 1921. Serial No. 154,422. PUBLISHED MARCH 6, 1923.

169,269. BOTTLE CAPPERS. COMSTOCK-BOLTON COMPANY, Kansas City, Mo.
Filed October 20, 1921. Serial No. 154,350. PUBLISHED MARCH 20, 1923.

169,270. HATS AND CAPS COMMONLY KNOWN AS HOCKEY CAPS. M. SIMON & SON, New York, N. Y.
Filed August 30, 1921. Serial No. 152,385. PUBLISHED MARCH 20, 1923.

169,271. TEXTILE FABRIC SHEETING COATED WITH COMPOSITIONS CONTAINING NITROCELLULOSE, AND RUBBER-COATED CLOTH. KENLIT MFG. CO., Medford, Mass.
Filed August 23, 1921. Serial No. 152,076. PUBLISHED FEBRUARY 27, 1923.

169,272. WOODENWARE—NAMELY, IRONING TABLES, IRONING BOARDS, SKIRT BOARDS, AND CLOTHES DRIERS. PETER CLIFTON HOLMQUIST, doing business as Holmquist & Co., Chicago, Ill.
Filed August 13, 1921. Serial No. 151,760. PUBLISHED FEBRUARY 27, 1923.

169,273. VARIABLE-SPEED AXLES FOR MOTOR-DRIVEN VEHICLES, AND PARTS OF SUCH AXLES. PERFECTO GEAR DIFFERENTIAL CO., Bellingham, Wash.
Filed May 26, 1921. Serial No. 148,296. PUBLISHED MARCH 27, 1923.

169,274. CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. THE FEDERAL RUBBER COMPANY, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts.
Filed April 28, 1921. Serial No. 146,898. PUBLISHED NOVEMBER 22, 1921.

169,275. CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. THE FEDERAL RUBBER COMPANY, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts.
Filed April 28, 1921. Serial No. 146,891. PUBLISHED NOVEMBER 22, 1921.

169,276. CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. THE FEDERAL RUBBER COMPANY, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts.
Filed April 28, 1921. Serial No. 146,884. PUBLISHED NOVEMBER 22, 1921.

169,277. ALUMINUM ALLOYS BOTH IN THE RAW OR INGOT FORM AND IN THE FORM OF FINISHED AND UNFINISHED CASTINGS. ALADAR PACZ, Cleveland Heights, Ohio.
Filed March 19, 1921. Serial No. 144,977. PUBLISHED MARCH 27, 1923.

169,278. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed March 11, 1921. Serial No. 144,611. PUBLISHED MARCH 27, 1923.

169,279. PAPER AND WOODEN TOYS. KATHRYN S. WILSON, Seattle, Wash.
Filed December 20, 1920. Serial No. 141,339. PUBLISHED FEBRUARY 20, 1923.

169,280. NUTS BOTH IN THEIR NATURAL STATE AND ROASTED, AND SALTED NUTS AND PEANUT BUTTER. FAMO NUT CO., Los Angeles, Calif.
Filed May 25, 1920. Serial No. 132,934. PUBLISHED MARCH 27, 1923.

169,281. ELECTRIC VACUUM CLEANERS. THE AIR-WAY COMPANY, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a Corporation of Delaware.
Filed December 26, 1919. Serial No. 126,441. PUBLISHED MAY 11, 1920.

169,282. AUTOMOBILE SUNBEAM VISOR. THOMA & SON, INC., Fairfield, Iowa.
Filed January 25, 1922. Serial No. 158,460. PUBLISHED MARCH 13, 1923.

169,283. BATHING SUITS, SWEATERS, SPORT VESTS, SPORT COATS, CAPS, AND MUFFLERS. KLING BROS. & CO. INC., Chicago, Ill.
Filed February 11, 1922. Serial No. 159,209. PUBLISHED MARCH 20, 1923.

169,284. FLASH LIGHTS. THE IVAR-LITE CORPORATION, Malden, Mass.
Filed February 23, 1922. Serial No. 159,704. PUBLISHED SEPTEMBER 26, 1922.

169,285. CANNED SARDINES. FRANK H. FROMM, doing business as F. H. Fromm & Company, Philadelphia, Pa.
Filed February 24, 1922. Serial No. 159,747. PUBLISHED MARCH 27, 1923.

169,286. ELECTRIC CONDUCTORS, WIRES, AND CABLES. BOSTON INSULATED WIRE & CABLE CO., Boston, Mass.
Filed March 11, 1922. Serial No. 160,534. PUBLISHED JULY 18, 1922.

169,287. FILES AND RASPS. C. O. OBERG & CO:S AKTIEBOLAGET, Eskilstuna, Sweden.
Filed April 1, 1922. Serial No. 161,641. PUBLISHED MARCH 20, 1923.

169,288. CEMENTS, PARTICULARLY FOR USE IN CONNECTION WITH REFRACTORY PARTS AND CONSTRUCTIONS. LAVA CRUCIBLE COMPANY OF PITTSBURGH, Pittsburgh, Pa.
Filed April 11, 1922. Serial No. 162,119. PUBLISHED MARCH 27, 1923.

169,289. CANDY. A. B. MEWHINNEY CO. INC., also doing business as Mewhinneys, Terre Haute, Ind.
Filed April 19, 1922. Serial No. 162,562. PUBLISHED MARCH 27, 1923.

169,290. CERTAIN NAMED CLOTHING. JORDAN MARSH COMPANY, Boston, Mass.
Filed May 24, 1922. Serial No. 164,437. PUBLISHED MARCH 20, 1923.

169,291. BOYS' CAMP SUITS. SAMUEL D. KARP, INC., New York, N. Y.
Filed May 25, 1922. Serial No. 164,501. PUBLISHED MARCH 20, 1923.

169,292. WOMEN'S KNITTED AND TEXTILE UNDERGARMENTS. THE FAIR, Chicago, Ill.
Filed June 3, 1922. Serial No. 164,881. PUBLISHED MARCH 20, 1923.

169,293. CERTAIN NAMED CLOTHING. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed June 10, 1922. Serial No. 165,313. PUBLISHED MARCH 20, 1923.

169,294. COAL TAR FOR BUILDING AND CONSTRUCTION PURPOSES, SLATE AND TARRED ROOFING. METROPOLITAN ROOFING MATERIAL CO., New York, N. Y.
Filed June 15, 1922. Serial No. 165,555. PUBLISHED MARCH 27, 1923.

169,295. NONFERROUS CASTING ALLOY. THE KENT-OWENS MACHINE COMPANY, Toledo, Ohio.
Filed June 26, 1922. Serial No. 166,077. PUBLISHED MARCH 20, 1923.

169,296. RADIO APPARATUS, PARTS, AND SUPPLIES, MORE PARTICULARLY CRYSTAL DETECTORS. A. J. MEYER MFG. CO., INC., West Hoboken, N. J.
Filed June 20, 1922. Serial No. 165,755. PUBLISHED MARCH 6, 1923.

169,297. COFFEE. ARBUCKLE BROTHERS, New York, N. Y., and Chicago, Ill., and doing business as Arbuckles & Company, at Pittsburgh, Pa.
Filed June 28, 1922. Serial No. 166,162. PUBLISHED MARCH 27, 1923.

169,298. INVERTASE USED IN MAKING SUGAR SIRUPS. AMERICAN BUBTONIZING COMPANY AND WALLERSTEIN LABORATORIES, New York, N. Y.
Filed July 1, 1922. Serial No. 166,340. PUBLISHED MARCH 27, 1923.

169,299. BITUMINOUS COMPOSITIONS USED SEPARATELY AND AS A BINDER, FILLER, COATING, AND INGREDIENT WITH OTHER MATERIALS. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed July 17, 1922. Serial No. 167,017. PUBLISHED MARCH 27, 1923.

169,300. NECKBANDS FOR MEN'S SHIRTS. CHAS. W. LIPSCHITZ, New York, N. Y.
Filed July 10, 1922. Serial No. 166,627. PUBLISHED MARCH 20, 1923.

169,301. POP-CORN CONFECTION. RICH-MAID MFG. CO., INC., Richmond, Va.
Filed July 24, 1922. Serial No. 167,328. PUBLISHED MARCH 27, 1923.

169,302. VEHICLE TIRES, INNER TUBES, TIRE CASINGS AND SHOES, AND REPAIR PARTS FOR USE IN CONNECTION WITH THE FOREGOING. THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio.
Filed August 4, 1922. Serial No. 167,817. PUBLISHED MARCH 27, 1923.

169,303. BLACK SHEETS, GALVANIZED SHEETS, AND TIN PLATE. CONSOLIDATED STEEL CORPORATION, New York, N. Y.
Filed August 8, 1922. Serial No. 167,935. PUBLISHED MARCH 20, 1923.

169,304. CANNED FRUITS. THOMAS BODY CO., Oakland, Calif.
Filed August 10, 1922. Serial No. 168,020. PUBLISHED MARCH 27, 1923.

169,305. CANNED FRUITS. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 10, 1922. Serial No. 168,043. PUBLISHED MARCH 27, 1923.

169,306. RESILIENT VEHICLE TIRES COMPOSED IN WHOLE OR IN PART OF RUBBER. KELLY-SPRINGFIELD TIRE COMPANY, New York, N. Y.
Filed August 10, 1922. Serial No. 168,046. PUBLISHED MARCH 27, 1923.

169,307. VEGETABLE SALAD OIL. RELIABLE IMPORTING CO. INC., New York, N. Y.
Filed August 14, 1922. Serial No. 168,238. PUBLISHED MARCH 27, 1923.

169,308. HANDMADE SILK CLOTHING. CECELIA F. TANNEHILL, doing business as Tannehill Handmade Underwear Company, Whitetail, Mont.
Filed August 19, 1922. Serial No. 168,499. PUBLISHED MARCH 20, 1923.

169,309. CANNED AND OTHER FOODS. NATIONAL PACKING CORPORATION, Ogden, Utah.
Filed August 28, 1922. Serial No. 168,780. PUBLISHED MARCH 27, 1923.

169,310. AUTOMOBILE ACCESSORIES. HAINES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed August 30, 1922. Serial No. 168,889. PUBLISHED MARCH 13, 1923.

169,311. CANNED TOMATO SAUCE. JOSEPH PETROCELLI & CO., INC., New York, N. Y.
Filed September 7, 1922. Serial No. 169,182. PUBLISHED MARCH 27, 1923.

169,312. MOUSETRAP. SAND COMPANY INC., New York, N. Y.
Filed September 8, 1922. Serial No. 169,227. PUBLISHED MARCH 13, 1923.

169,313. HEATED-CABINET LAUNDRY DRIERS. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio.
Filed September 14, 1922. Serial No. 169,461. PUBLISHED FEBRUARY 27, 1923.

169,314. KNITTED GOODS—VIZ, SWEATERS, SCARFS, MUFFLERS, AND CAPES. FELIX BLOCK, doing business as Advance Knitting Mills, New York, N. Y.
Filed September 16, 1922. Serial No. 169,528. PUBLISHED MARCH 20, 1923.

169,315. MEN'S AND YOUNG MEN'S SUITS. LEITCHFIELD CLOTHING CO., Leitchfield, Ky.
Filed September 18, 1922. Serial No. 169,639. PUBLISHED MARCH 20, 1923.

169,316. CERTAIN NAMED CONSTRUCTION MATERIALS. OLSEN & MARGRAF, INC., Brooklyn, N. Y.
Filed September 25, 1922. Serial No. 169,922. PUBLISHED FEBRUARY 27, 1923.

169,317. LEATHER BELTS. TEXAS BELTING COMPANY, Houston, Tex.
Filed September 25, 1922. Serial No. 169,988. PUBLISHED MARCH 27, 1923.

169,318. KNITTED SWEATERS. GOTHAM KNITTING MILLS, New York, N. Y.
Filed September 29, 1922. Serial No. 170,064. PUBLISHED MARCH 20, 1923.

169,319. HOSIERY, UNDERWEAR, AND SWEATERS OF SILK, COTTON, WOOL, AND COMBINATIONS THEREOF. MORRIS SOLOMON, doing business as Federal Mercantile Company, New York, N. Y.
Filed September 29, 1922. Serial No. 170,099. PUBLISHED MARCH 20, 1923.

169,320. PROTECTING PAD FOR FURNITURE. THE SILVER PAD MFG. CO. INC., Herkimer, N. Y.
Filed September 30, 1922. Serial No. 170,159. PUBLISHED MARCH 13, 1923.

169,321. DRESSES. SCHWARTS-SINGER CO., INC., New York, N. Y.
Filed October 2, 1922. Serial No. 170,219. PUBLISHED MARCH 20, 1923.

169,322. PLOWSHARES, PLOWS, CULTIVATORS, CORN PLANTERS, DISK HARROWS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 25, 1923. Serial No. 175,109. PUBLISHED MARCH 20, 1923.

169,323. MOLDS FOR THE MANUFACTURE OF ALIMENTARY PASTES. F. MALDARI & BROS., New York, N. Y.
Filed January 24, 1923. Serial No. 175,018. PUBLISHED MARCH 20, 1923.

169,324. STRAW-SEWING MACHINES. DURBROW & HEARNE, New York, N. Y.
Filed January 20, 1923. Serial No. 174,823. PUBLISHED MARCH 20, 1923.

169,325. STRAW-SEWING MACHINES. DURBROW & HEARNE, New York, N. Y.
Filed January 20, 1923. Serial No. 174,821. PUBLISHED MARCH 20, 1923.

169,326. BRICK. STEVENS BROTHERS AND COMPANY, Atlanta, Ga.
Filed January 17, 1923. Serial No. 174,705. PUBLISHED MARCH 27, 1923.

169,327. JACKS. KENT MACHINE WORKS, INC., Brooklyn, N. Y.
Filed January 13, 1923. Serial No. 174,578. PUBLISHED MARCH 20, 1923.

169,328. WRITING PAPER. THE CINCINNATI CORDAGE & PAPER CO., Cincinnati, Ohio.
Filed January 18, 1923. Serial No. 174,555. PUBLISHED MARCH 27, 1923.

169,329. GREASE CUPS. FOSTER ENGINEERING COMPANY, Newark, N. J.
Filed January 13, 1923. Serial No. 174,568. PUBLISHED MARCH 20, 1923.

169,330. A LIQUID FOR USE WITH CONCRETE AND CEMENT MIXTURES. ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J.
Filed January 11, 1923. Serial No. 174,423. PUBLISHED MARCH 27, 1923.

169,331. GRAVITY PAPER CUTTER. DAVID LINETTE, New York, N. Y.
Filed January 10, 1923. Serial No. 174,400. PUBLISHED MARCH 20, 1923.

169,332. FELT INSULATING MATERIAL. AMERICAN HAIR FELT COMPANY, Chicago, Ill.
Filed January 9, 1923. Serial No. 174,354. PUBLISHED MARCH 27, 1923.

169,333. WALL PAPER. BECKER, SMITH & PAGE, INC., Philadelphia, Pa.
Filed December 21, 1922. Serial No. 173,619. PUBLISHED MARCH 27, 1923.

169,334. FOUNTAIN PENS. SALZ BROS. INC., New York, N. Y.
Filed December 20, 1922. Serial No. 173,611. PUBLISHED MARCH 27, 1923.

169,335. SANITARY SOUND-DEADENING AND INSULATING FABRIC. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed December 18, 1922. Serial No. 173,538. PUBLISHED MARCH 27, 1923.

169,336. METAL GRATINGS FOR FLOORINGS AND STAIRCASES. IRVING IRON WORKS COMPANY, Long Island City, N. Y.
Filed December 18, 1922. Serial No. 173,499. PUBLISHED MARCH 27, 1923.

169,337. SPOTLIGHTS, SPOTLIGHT MOUNTINGS, AND PARTS THEREOF. THE THAL & BITTER MACHINE CO., Toledo, Ohio.
Filed December 16, 1922. Serial No. 173,450. PUBLISHED MARCH 6, 1923.

169,338. WOOD FLOORING. ALBEMARLE MILLS COMPANY, INC., Charlottesville, Va.
Filed December 14, 1922. Serial No. 173,312. PUBLISHED MARCH 27, 1923.

169,339. FINGER RINGS. GLASER BROS., Boston, Mass.
Filed December 11, 1922. Serial No. 173,188. PUBLISHED FEBRUARY 27, 1923.

169,340. BABBITT BEARINGS. THE WATKINS MANUFACTURING COMPANY, Wichita, Kans.
Filed December 8, 1922. Serial No. 173,113. PUBLISHED MARCH 20, 1923.

169,341. LIME. NATIONAL MORTAR AND SUPPLY COMPANY OF PITTSBURG, Pittsburgh, Pa.
Filed December 8, 1922. Serial No. 173,102. PUBLISHED MARCH 27, 1923.

169,342. WEATHER STRIPS. EDWARD J. WIEFS, St. Louis, Mo.
Filed October 2, 1922. Serial No. 170,230. PUBLISHED MARCH 27, 1923.

169,343. CANNED FRUITS, CANNED VEGETABLES, AND SPICES. JOSEPH E. GROSBERG, doing business as Grosberg Packing Co., Schenectady, N. Y.
Filed October 13, 1922. Serial No. 170,683. PUBLISHED MARCH 27, 1923.

169,344. MOLASSES. PENICK & FORD, LTD., INCORPORATED, New Orleans, La.
Filed October 13, 1922. Serial No. 170,692. PUBLISHED MARCH 27, 1923.

169,345. EXTRACT OF MALT FOR FOOD PURPOSES. MITCHEL A. HURWITZ, Jamaica, N. Y.
Filed October 16, 1922. Serial No. 170,777. PUBLISHED MARCH 27, 1923.

169,346. COCKS, STOP AND WASTE, AND CORPORATION. RED HED MFG. CO., Boston, Mass.
Filed October 16, 1922. Serial No. 170,787. PUBLISHED MARCH 20, 1923.

169,347. COCKS, STOP AND WASTE, AND CORPORATION. RED HED MFG. CO., Boston, Mass.
Filed October 16, 1922. Serial No. 170,788. PUBLISHED MARCH 20, 1923.

169,348. CANNED FISH. VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif.
Filed October 28, 1922. Serial No. 171,343. PUBLISHED MARCH 27, 1923.

169,349. FUR SKINS AND PELTS IMITATING SEAL. ATTILIO PIERINI, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y.
Filed October 30, 1922. Serial No. 171,387. PUBLISHED MARCH 13, 1923.

169,350. RAW FUR, SKINS, AND PELTS. ATTILIO PIERINI, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y.
Filed October 30, 1922. Serial No. 171,388. PUBLISHED MARCH 13, 1923.

169,351. ASPHALT AND PAVING FILLER. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed November 6, 1922. Serial No. 171,663. PUBLISHED MARCH 27, 1923.

169,352. LADIES' AND GENTLEMEN'S WATCHCASES. MORAYS WATCH CASE CO., Brooklyn, N. Y.
Filed November 9, 1922. Serial No. 171,762. PUBLISHED FEBRUARY 27, 1923.

169,353. RIM TOOLS AND TIRE TOOLS. MARQUETTE MANUFACTURING COMPANY, St. Paul, Minn.
Filed November 15, 1922. Serial No. 172,049. PUBLISHED MARCH 27, 1923.

169,354. ROOFING PAPER. A. R. STANSBURY, INC., Norfolk, Va.
Filed November 16, 1922. Serial No. 172,128. PUBLISHED MARCH 27, 1923.

169,355. WRITING PAPER. BYRON WESTON COMPANY, Dalton, Mass.
Filed November 17, 1922. Serial No. 172,142. PUBLISHED MARCH 27, 1923.

169,356. AQUAMARINES. LUCIAN M. ZELL, New York, N. Y.
Filed November 17, 1922. Serial No. 172,193. PUBLISHED FEBRUARY 27, 1923.

169,357. PHONOGRAPHS. HENRY A. ROBBINS, Boston, Mass.
Filed November 23, 1922. Serial No. 172,439. PUBLISHED FEBRUARY 27, 1923.

169,358. EXPANSION SHIELDS. STAR EXPANSION BOLT COMPANY, New York, N. Y.
Filed November 23, 1922. Serial No. 172,448. PUBLISHED MARCH 20, 1923.

169,359. PINTLES FOR CASTERS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed November 25, 1922. Serial No. 172,505. PUBLISHED MARCH 27, 1923.

169,360. WRENCHES. BONNEY FORGE & TOOL WORKS, Philadelphia, Pa.; New York, N. Y.; Allentown, Pa., and Chicago, Ill.
Filed November 28, 1922. Serial No. 172,633. PUBLISHED MARCH 27, 1923.

169,361. BRAIDING MACHINES. NATIONAL INDICATOR COMPANY, Long Island City, N. Y.
Filed December 4, 1922. Serial No. 172,896. PUBLISHED MARCH 27, 1923.

169,362. SAWING ATTACHMENTS FOR TRACTORS. OLIVER W. JOHNSON, doing business as Buddie Saw Rig Works, Geneva, Ohio.
Filed January 26, 1923. Serial No. 175,147. PUBLISHED MARCH 20, 1923.

169,363. PAPER WEIGHTS, INKWELLS, BOOK ENDS, BLOTTERS. THE POP TOYS COMPANY, Chicago, Ill.
Filed January 26, 1923. Serial No. 175,157. PUBLISHED MARCH 27, 1923.

169,364. CRAFT PAPER. AKTIEBOLAGET MÖLNBACKA-TRYSIL, Forshaga, Sweden.
Filed January 27, 1923. Serial No. 175,178. PUBLISHED MARCH 27, 1923.

169,365. CERTAIN NAMED PAPER AND STATIONERY. THE SMITH TABLET COMPANY, INC., Holyoke, Mass.
Filed January 27, 1923. Serial No. 175,219. PUBLISHED MARCH 27, 1923.

169,366. TABLETS AND BOOK COVERS. THE SMITH TABLET COMPANY, INC., Holyoke, Mass.
Filed January 27, 1923. Serial No. 175,220. PUBLISHED MARCH 27, 1923.

169,367. TOILET PAPER AND PAPER TOWELS. RUSHMORE PAPER MILLS, INC., Brooklyn and New York, N. Y.
Filed January 29, 1923. Serial No. 175,272. PUBLISHED MARCH 27, 1923.

169,368. SHOES CONSTRUCTED OF LEATHER AND COMBINATIONS OF FABRIC AND LEATHER. JULIUS BERKOWITZ, New Bedford, Mass.
Filed September 7, 1922. Serial No. 169,149. PUBLISHED DECEMBER 19, 1922.

169,369. SALAD DRESSING. AMERICAN MAYONNAISE COMPANY, INC., Ithaca, N. Y.
Filed September 14, 1922. Serial No. 169,433. PUBLISHED MARCH 27, 1923.

169,370. CANDY. OWEN A. MCQUILLAN, Philadelphia, Pa.
Filed September 14, 1922. Serial No. 169,452. PUBLISHED MARCH 27, 1923.

169,371. LEATHER SHOES. H. M. JOHNSON COMPANY, Newburyport, Mass.
Filed September 15, 1922. Serial No. 169,485. PUBLISHED MARCH 20, 1923.

169,372. MEN'S, WOMEN'S, AND CHILDREN'S SHOES, BOOTS, AND SLIPPERS MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. APEL-SCHNEIDER CO., Philadelphia, Pa.
Filed September 19, 1922. Serial No. 160,667. PUBLISHED MARCH 6, 1923.

169,373. HEEL GUARDS MADE OF FABRIC FOR SHOES. ACHILLES GUARD COMPANY, Grand Rapids, Mich.
Filed September 20, 1922. Serial No. 169,698. PUBLISHED MARCH 6, 1923.

169,374. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. CURTIS SHOE COMPANY, Marlboro and Boston, Mass.
Filed September 20, 1922. Serial No. 169,703. PUBLISHED MARCH 13, 1923.

169,375. RUBBER HEELS AND SOLES, RUBBERS, OVERSHOES, AND RUBBER SHOES. ALFRED HALE RUBBER COMPANY, Atlantic, Mass.
Filed September 26, 1922. Serial No. 169,953. PUBLISHED MARCH 20, 1923.

169,376. LEATHER SHOES. F. MAYER BOOT & SHOE CO., Milwaukee, Wis.
Filed October 2, 1922. Serial No. 170,206. PUBLISHED MARCH 6, 1923.

169,377. LEATHER SHOES AND BOOTS. F. P. KIRKENDALL & CO., Omaha, Nebr.
Filed October 9, 1922. Serial No. 170,488. PUBLISHED MARCH 20, 1923.

169,378. ICE CREAM IN BRICK FORM. THE DRYDEN CORPORATION, Oakland, Calif.
Filed October 13, 1922. Serial No. 170,680. PUBLISHED MARCH 27, 1923.

169,379. CERTAIN NAMED CLOTHING. MANNIE BERG, Baltimore, Md.
Filed October 24, 1922. Serial No. 171,118. PUBLISHED MARCH 6, 1923.

169,380. COFFEE. PALMETTO COFFEE CO., INC., Dover, Del., and Washington, D. C.
Filed October 30, 1922. Serial No. 171,381. PUBLISHED MARCH 27, 1923.

169,381. ARM BANDS. A. STEIN & COMPANY, Chicago, Ill.
Filed November 1, 1922. Serial No. 171,475. PUBLISHED MARCH 20, 1923.

169,382. SOLES, HALF SOLES, AND HEELS MADE OF RUBBER AND COMPOSITION. BAILEY RUBBER HEEL COMPANY INCORPORATED, Beverly, Mass.
Filed November 6, 1922. Serial No. 171,608. PUBLISHED MARCH 20, 1923.

169,383. SHOES AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER. THE B-B SHOE COMPANY, Milwaukee, Wis.
Filed November 13, 1922. Serial No. 171,891. PUBLISHED MARCH 20, 1923.

169,384. SHOES MADE WHOLLY OR IN PART OF LEATHER. M. A. PACKARD COMPANY, Brockton, Mass.
Filed November 11, 1922. Serial No. 171,865. PUBLISHED MARCH 20, 1923.

169,385. SUSPENDERS. A. STEIN & COMPANY, Chicago, Ill.
Filed November 16, 1922. Serial No. 172,129. PUBLISHED MARCH 20, 1923.

169,386. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. BAY SIDE CANNING COMPANY, Alviso, Calif.
Filed August 28, 1922. Serial No. 168,751. PUBLISHED MARCH 27, 1923.

169,387. SOUND AMPLIFIERS USED IN CONNECTION WITH WIRELESS TELEPHONE AND TELEGRAPH RECEIVING INSTRUMENTS. MAURICE W. HIRSHFIELD, doing business as Marfield Radio Mfg. Co., New York, N. Y.
Filed August 21, 1922. Serial No. 168,529. PUBLISHED MARCH 27, 1923.

169,388. WEARING APPAREL FOR MEN AND WOMEN. ROSENWALD & WEIL, Chicago, Ill.
Filed August 10, 1922. Serial No. 168,070. PUBLISHED JANUARY 9, 1923.

169,389. FRESH FRUITS AND FRESH VEGETABLES. HALEY-NEELEY COMPANY, Sioux City, Iowa.
Filed August 10, 1922. Serial No. 168,037. PUBLISHED MARCH 27, 1923.

169,390. SOFT DRINKS. LOS ANGELES ICE & COLD STORAGE CO., Los Angeles, Calif.
Filed July 26, 1922. Serial No. 167,404. PUBLISHED OCTOBER 10, 1922.

169,391. CANNED CHERRIES, WHOLE STRING BEANS, JUNE PEAS, SALMON, SARDINES, TOMATO CATCHUP AND FRUIT JAMS. OTTO MUHLBAUER & CO., INC., Brooklyn, N. Y.
Filed July 3, 1922. Serial No. 166,466. PUBLISHED MARCH 27, 1923.

169,392. INFANTS' AND CHILDREN'S HATS, CAPS, AND BONNETS. J. HILDESHEIMER CO., New York, N. Y.
Filed June 26, 1922. Serial No. 166,074. PUBLISHED MARCH 6, 1923.

169,393. HATS FOR WOMEN AND MISSES. COHN & KAPLAN, New York, N. Y.
Filed June 26, 1922. Serial No. 166,039. PUBLISHED MARCH 6, 1923.

169,394. CAPS FOR MEN AND BOYS. BECK & BELAIEF, New York, N. Y.
Filed June 23, 1922. Serial No. 165,910. PUBLISHED MARCH 6, 1923.

169,395. YEAST. HENRY GRADY HOLMES, doing business as The Mrs. A. G. Holmes & Co., Corsicana, Tex.
Filed June 14, 1922. Serial No. 165,497. PUBLISHED MARCH 27, 1923.

169,396. CANNED FRUITS. GEORGE WILLS & SONS, LTD., London, England, and San Francisco, Calif.
Filed May 11, 1922. Serial No. 163,721. PUBLISHED MARCH 27, 1923.

169,397. MEN'S AND WOMEN'S UNDERGARMENTS OF KNITTED OR TEXTILE FABRICS, HOUSE ROBES, LOUNGING ROBES, AND PYJAMAS. FRANK F. MULLER, doing business as Pacific Mercantile Co., San Francisco, Calif.
Filed May 8, 1922. Serial No. 163,281. PUBLISHED MARCH 6, 1923.

169,398. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, AND CANNED JAM. GEORGE WILLS AND SONS, LTD., London, England, and San Francisco, Calif.
Filed May 1, 1922. Serial No. 163,159. PUBLISHED MARCH 27, 1923.

169,399. BAR CANDY. VAL. BLATZ JR. CANDY CO., Milwaukee, Wis.
Filed April 19, 1922. Serial No. 162,528. PUBLISHED MARCH 27, 1923.

169,400. ELECTRICAL APPLIANCES ADAPTED FOR USE IN CONNECTION WITH POULTRY PRODUCTS — NAMELY, ELECTRICALLY-HEATED BROODERS. HARVEY H. HALL, doing business as The H. H. Hall Company, and Hallworthy Poultry Farm, Elyria, Ohio.
Filed April 8, 1922. Serial No. 161,925. PUBLISHED MARCH 27, 1923.

169,401. LEATHER BOOTS AND SHOES. A. W. SMITH SHOE COMPANY, Boston, Mass.
Filed March 3, 1922. Serial No. 160,159. PUBLISHED MARCH 20, 1923.

169,402. PREPARED MUSTARD, MAYONNAISE, AND OLIVE RELISHES. THE MARYLAND PACKING CO., Baltimore, Md.
Filed March 3, 1922. Serial No. 160,145. PUBLISHED MARCH 27, 1923.

169,403. MEN'S AND BOYS' OVERCOATS, SUITS, COATS, AND PANTS. SAMUEL SPITS & SONS, INC., Chicago, Ill.
Filed January 9, 1922. Serial No. 157,695. PUBLISHED MARCH 20, 1923.

169,404. ELECTRICAL COOK STOVES. THE W. B. MCALLISTER COMPANY, Cleveland, Ohio.
Filed November 3, 1921. Serial No. 154,987. PUBLISHED MARCH 27, 1923.

169,405. STORAGE BATTERIES. ADVANCE BATTERY MANUFACTURING COMPANY, Louisville, Ky.
Filed October 27, 1921. Serial No. 154,633. PUBLISHED MARCH 27, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

169,406. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GRIER-SUTHERLAND CO., Detroit, Mich. Filed Mar. 17, 1923. Serial No. 177,604.

POWER

Particular description of goods.—Small Storage Batteries.
Claims use since October, 1920.

169,407. (CLASS 39. CLOTHING.) H. FRIEDMAN HAT CO., INC., New York, N. Y. Filed Mar. 9, 1923. Serial No. 177,179.

STANDARD OF EXCELLENCE
THE MELTON
"ART IN HATS"
DESIGNED AND STYLED BY
FRIEDMAN
NEW YORK

Particular description of goods.—Men's Hats.
Claims use since Jan. 1, 1916.

169,408. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEORGE E. THOMPSON LIGHTNING ROD CO., Owatonna, Minn. Filed Feb. 8, 1923. Serial No. 175,748.

Thompson's

Particular description of goods.—Lightning Rods.
Claims use since Feb. 1, 1920.

169,409. (CLASS 39. CLOTHING.) SCRANTON CAP MANUFACTURING COMPANY, Scranton, Pa. Filed Jan. 27, 1923. Serial No. 175,213.

MACK

Particular description of goods.—Men's and Boys' Headwear—viz, Hats and Caps.
Claims use since Nov. 18, 1921.

169,410. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOUIS NEKRITZ, doing business as Perfect Polish Co., Brooklyn, N. Y. Filed Jan. 20, 1923. Serial No. 174,847.



Particular description of goods.—Stove Polish.
Claims use since Apr. 1, 1919.

169,411. (CLASS 39. CLOTHING.) GOODYEAR RUBBER COMPANY, New York, N. Y., and St. Paul, Minn. Filed Jan. 18, 1923. Serial No. 174,733.

NO-TEAR

Particular description of goods.—Rubber Boots and Shoes.
Claims use since January, 1902.

169,412. (CLASS 39. CLOTHING.) B. FRIEDMAN, New York, N. Y. Filed Oct. 25, 1922. Serial No. 171,162.

Dr. Leonard's
"Easy Stepper"

Particular description of goods.—Boots, Shoes, Slippers, and Sandals Made of Leather, Rubber, Canvas, and Other Fabric and Combinations Thereof.
Claims use since Dec. 31, 1912.

169,413. (CLASS 39. CLOTHING.) THE J. K. VON GAL HAT COMPANY, Danbury, Conn. Filed Oct. 21, 1922. Serial No. 171,048.

LUXURY WITHOUT EXTRAVAGANCE

Particular description of goods.—Men's, Women's, and Children's Hats.
Claims use since Jan. 1, 1922.

169,414. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) OUTING TALKING MACHINE CO., INC., Mount Kisco, N. Y. Filed Oct. 10, 1922. Serial No. 170,536.

Outing

Particular description of goods.—Phonographs.
Claims use since about May 1, 1921.

169,415. (CLASS 39. CLOTHING.) ROCKLAND HOSIERY MILLS, Philadelphia, Pa. Filed Sept. 30, 1922. Serial No. 170,156.

Rockland Knit

Particular description of goods.—Hosiery for Women and Misses.
Claims use since on or about July, 1921.

169,416. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LA FRANCE MANUFACTURING CO., Philadelphia, Pa. Filed Sept. 28, 1922. Serial No. 170,026.

La France

Particular description of goods.—Laundry Tablets.
Claims use since Sept. 20, 1909.

169,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CURTIS CORPORATION, Wilmington, Del. Filed Sept. 18, 1922. Serial No. 169,622.

CURTIS

Particular description of goods.—Canned Olives, Olive Oil, Fish, Pimientos, Hors d'Oeuvres, Antipasto.
Claims use since Nov. 21, 1913.

169,418. (CLASS 39. CLOTHING.) THE RICH SHOE COMPANY, Milwaukee, Wis. Filed July 31, 1922. Serial No. 167,656.

ARCH-SAVER

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since November, 1921.

169,419. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922. Serial No. 165,941.

Doris Gray

Particular description of goods.—Corset Waists.
Claims use since Apr. 22, 1922.

169,420. (CLASS 39. CLOTHING.) GROPPER KNITTING MILLS, INC., New York, N. Y. Filed May 19, 1922. Serial No. 164,106.

TY-WELL GROPPER'S KNIT-TIE

Particular description of goods.—Scarfs and Neckties.
Claims use since Apr. 1, 1922.

169,421. (CLASS 39. CLOTHING.) HOCHSCHILD, KOHN & CO., INC., Baltimore, Md. Filed May 6, 1922. Serial No. 163,444.

Foot-Grip

Particular description of goods.—High and Low Shoes Made Wholly or Partly of Leather, Fabric, or Rubber or Combinations Thereof.
Claims use since Mar. 20, 1922.

169,422. (CLASS 39. CLOTHING.) WIMELBACHER & RICH, New York, N. Y. Filed May 10, 1922. Serial No. 163,657.

ANTELOPE-SUEDE

Particular description of goods.—Fabric Gloves.
Claims use since Apr. 7, 1922.

169,423. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed May 4, 1922. Serial No. 163,810.

LENOX

Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since May 1, 1922.

169,424. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KRANICH BROS., New York, N. Y. Filed Mar. 11, 1922. Serial No. 160,553.

"Twilsnap"

Particular description of goods.—Snap Fasteners.
Claims use since December, 1921.

169,425. (CLASS 39. CLOTHING.) GOODLOW CORPORATION, New York, N. Y. Filed Mar. 9, 1922. Serial No. 160,406.

Made with Corduroy Light and Wear!

Particular description of goods.—Men's and Boys' Coats, Vests, Trousers, and Overcoats.
Claims use since Mar. 2, 1922.

169,426. (CLASS 39. CLOTHING.) NIAGARA KNITTING MILLS CORP., Long Island City and New York, N. Y. Filed Mar. 2, 1922. Serial No. 160,077.

"Johnny Walker"

Particular description of goods.—Bathing Suits.
Claims use since Jan. 24, 1922.

169,427. (CLASS 39. CLOTHING.) GOLDSTEIN AND FISHER CO., INC., New York, N. Y. Filed Feb. 10, 1922. Serial No. 159,149.

OUVAL

The drawing is lined to indicate the color red.
Particular description of goods.—Dress Shirts and Pyjamas.
Claims use since Jan. 1, 1922.

169,428. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) A. COHEN & SONS, New York, N. Y. Filed Jan. 28, 1922. Serial No. 158,295.

EVERBRITE

Particular description of goods.—Silver-Plated Hollow and Flat Ware, Expressly Excluding Knives, for Table Service, and Candlesticks.
Claims use since Jan. 2, 1922.

169,429. (CLASS 39. CLOTHING.) NEENAH SHOE COMPANY, Neenah, Wis. Filed Dec. 22, 1921. Serial No. 157,041.

GRAINSKIN

Particular description of goods.—Leather Boots and Shoes.
Claims use since Nov. 9, 1921.

169,430. (CLASS 39. CLOTHING.) ETHEL ROTH, Los Angeles, Calif. Filed Dec. 19, 1921. Serial No. 156,921.

KANTSLIP

Particular description of goods.—Women's Aprons.
Claims use since Nov. 15, 1921.

169,431. (CLASS 39. CLOTHING.) THE RILEY SHOE MANUFACTURING COMPANY, Columbus, Ohio. Filed Aug. 15, 1921. Serial No. 151,810.

ARCH
RELIEF

Particular description of goods.—Shoes of Leather and Combinations of Cloth and Leather.
Claims use since June 3, 1919.

169,432. (CLASS 39. CLOTHING.) THE JACKSON & GUTMAN COMPANY, Salisbury, Md. Filed July 1, 1921. Serial No. 149,901.

DUNLAP

Particular description of goods.—Negligee Shirts.
Claims use since January, 1901.

169,433. (CLASS 39. CLOTHING.) LEVINE BROTHERS, Cincinnati, Ohio. Filed Apr. 21, 1922. Serial No. 162,685.

Hyde Park

Particular description of goods.—Men's Suits.
Claims use since Apr. 7, 1922.

169,434. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NEWTON LINE COMPANY INCORPORATED, Homer, N. Y. Filed Jan. 11, 1923. Serial No. 174,480.

SILKALINE

Particular description of goods.—Fishing Lines.
Claims use since the 1st day of February, 1910.

TRADE-MARK REGISTRATIONS RENEWED.

22,425. TWIST TOBACCO. Registered February 7, 1893. JOHN D. WALKER, Lexington, Ky. Renewed February 7, 1923, to John D. Moore Tobacco Company, Louisville, Ky., a Corporation of Kentucky, assignee.

22,471. SALVES, PILLS, VERMIFUGE, LINIMENT, AND COUGH BALM. Registered February 14, 1893. AMOS H. GOTTSCHALL. Renewed February 14, 1923, to P. B. Gottschall, Harrisburg, Pa., assignee.

22,968. WATCHCASES. Registered May 9, 1893. THE FAHYS WATCH CASE CO., Sag Harbor, N. Y. Renewed May 9, 1923, to Joseph Fahys & Co., New York, N. Y., a Corporation of New York, assignee.

23,019. COTTON GOODS. Registered May 16, 1893. MASSACHUSETTS COTTON MILLS, Lowell, Mass., and New York, N. Y. Renewed May 16, 1923.

23,455. RUBBER GOODS, LEATHER GOODS, AND WATERPROOF OILED FABRICS. Registered August 8, 1893. GOODYEAR RUBBER COMPANY, New York, N. Y. Renewed August 8, 1923.

23,456. RUBBER GOODS, LEATHER GOODS, AND WATERPROOF OILED FABRICS. Registered Aug. 8, 1893. GOODYEAR RUBBER COMPANY, New York, N. Y. Renewed August 8, 1923.

23,516. PAPER. Registered August 22, 1893. JOHN DICKINSON & CO., LIMITED, London, England. Renewed August 22, 1923.

23,528. CANDLES, STEARIN OR STEARIC ACID, OLEINE, AND GLYCERIN. Registered August 22, 1893. DE ROUBAIX, OLDENKOVEN & CO., Borgerhout, near Antwerp, Belgium. Renewed August 22, 1923.

23,635. CLOTHES WRINGERS. Registered September 19, 1893. THE AMERICAN WRINGER COMPANY, Providence, R. I. Renewed September 19, 1923.

23,636. CLOTHES WRINGERS AND DRIERS. Registered September 19, 1893. THE AMERICAN WRINGER COMPANY, Providence, R. I. Renewed September 19, 1923.

23,639. CUTLERY, INCLUDING KNIVES, RAZORS, SHEARS, FILES, ETC. Registered September 19, 1893. THE ESTATE OF FREDERICK WIEBUSCH, by Charles Wiebusch, executor, New York, N. Y. Renewed September 19, 1923, to Challenge Cutlery Corporation, Bridgeport, Conn., a Corporation of Connecticut, assignee.

23,653. BRICKS, RETORTS, TILES, QUARLES, PIPES, LUMPS, AND OTHER ARTICLES MADE OF FIRE CLAY. Registered September 26, 1893. JOSEPH COWEN & CO., Blaydon-on-Tyne, England. Renewed September 26, 1923, to Priestman Collieries Limited, Newcastle-on-Tyne, England, assignee.

23,665. SHEEP DIPS. Registered September 26, 1893. NEWTON, CHAMBERS & COMPANY, LIMITED, near Sheffield, England. Renewed September 26, 1923.

23,692. STEAM GENERATORS. Registered October 10, 1893. THE BABCOCK & WILCOX COMPANY, Elizabethport, N. J., and New York, N. Y. Renewed October 10, 1923.

LABELS

REGISTERED JUNE 12, 1923.

26,070.—*Title:* CRESTWOOD FARMS. For Milk. AINES FARM DAIRY CO., Kansas City, Mo. Published April 23, 1923.

26,071.—*Title:* WEEBITS. For Candies and Confections. ALBERT BERNARD, New York, N. Y. Published January 17, 1923.

26,072.—*Title:* JIM BLAIR'S DUZ WEAR SUPPORTED ARCH SHOE. For Shoes. JIM BLAIR SHOE CORPORATION, St. Joseph, Mo. Published March 30, 1923.

26,073.—*Title:* BLAISDELL ARAB. For Lead Pencils. BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Published March 23, 1923.

26,074.—*Title:* BUDDY BROOKS A MAN'S POWDER FOR MEN. For Containers for Talcum Powder. BUDDY BROOKS, INC., Marshall, Mich. Published February 23, 1922.

26,075.—*Title:* FORTUNELLA PURE COTTONSEED OIL. For Cottonseed Oil. CELLAS', INC., New York, N. Y. Published February 1, 1923.

26,076.—*Title:* AUNT ALMIRA'S. For Mayonnaise. CHAMPLAIN VALLEY FRUIT CO. INC., Burlington, Vt. Published April 1, 1923.

26,077.—*Title:* EMILE COUE'S OWN METHOD OF SELF MASTERY. For Phonograph Records. COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Published March 15, 1923.

26,078.—*Title:* EAGLE. For White Lead. THE EAGLE-PICHER LEAD COMPANY, Cincinnati, Ohio. Published February 28, 1923.

26,079.—*Title:* $1000.00 GUARANTEED MOTH KILLER. For Insecticide Preparation for Killing Moths and Carpet Beetles. B. HELLER & COMPANY, Chicago, Ill. Published April 30, 1923.

26,080.—*Title:* $1000.00 GUARANTEED ENAMEL CLEANER. For a Preparation for Cleaning Enamel and Porcelain Ware. B. HELLER & COMPANY, Chicago, Ill. Published April 25, 1923.

26,081.—*Title:* $1000.00 GUARANTEED OZO WASTE PIPE OPENER. For a Drain Pipe Cleaner and Solvent. B. HELLER & COMPANY, Chicago, Ill. Published March 30, 1923.

26,082.—*Title:* $1000.00 GUARANTEED AUTO GLO. For an Automobile and Wood Polish. B. HELLER & COMPANY, Chicago, Ill. Published March 28, 1923.

26,083.—*Title:* HOUSEMAN'S PUFFS. For Fried Cakes. HOUSEMAN CREAM FRIED CAKE CO., Grand Rapids, Mich. Published March 17, 1923.

26,084.—*Title:* SALT WATER TAFFY. For Candy. JAMES BROTHERS, Atlantic City, N. J. Published May 9, 1923.

26,085.—*Title:* JARRETT MINERAL SPRING WATER. For Water. JARRETT WATER CO., Philadelphia, Pa. Published April 7, 1923.

26,086.—*Title:* CAMEL MALT SYRUP. For Malt Sirup. GAYLEN D. LINDEMAN and LEO V. NOVAK, doing business as Camel Malt Syrup Company, Cedar Rapids, Iowa. Published April 7, 1923.

26,087.—*Title:* GOOD CREAMERY BUTTER. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Cottage Creamery Co., Cleveland, Ohio. Published May 1, 1923.

26,088.—*Title:* HOLLAND'S TWIN LOAF BREAD. For Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. Published April 5, 1923.

26,089.—*Title:* MAPLE RIDGE CREAMERY BUTTER. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Brundage Co., Cleveland, Ohio. Published May 1, 1923.

26,090.—*Title:* GENUINE I'HILIPPINE REPP ORIGINATED 1915. For Philippine Repp Cloth. GAY E. MILIUS and LESTER MILIUS, doing business under the name of E. Milius & Co., New Rochelle and New York, N. Y. Published January 2, 1923.

26,091.—*Title:* CROCUS. For a Box of Crocus Bulbs. NEW AMSTERDAM BULB CO. INC., New York, N. Y. Published November 1, 1922.

26,092.—*Title:* PUREX. For Salt. THE OHIO SALT CO., Wadsworth, Ohio. Published May 5, 1923.

26,093.—*Title:* CONTE VERDE. For Cigars. PARODI CIGAR CO., INC., Jersey City, N. J. Published April 1, 1922.

26,094.—*Title:* KENTUCKY CHIMNEY. For Cigars. PARODI CIGAR CO., INC., Jersey City, N. J. Published February 23, 1923.

26,095.—*Title:* LEONE DI SAN MARCO. For Cigars. PARODI CIGAR CO., INC., Jersey City, N. J. Published April 1, 1922.

26,096.—*Title:* BLACKY. For Cigars. PARODI CIGAR CO., INC., Jersey City, N. J. Published April 1, 1922.

26,097.—*Title:* IL PROGRESSO. For Cigars. PARODI CIGAR CO., INC., Jersey City, N. J. Published April 1, 1922.

26,098.—*Title:* NO. 04 MIRROR AND SCOTTISSUE TOWEL HOLDER. For Cartons for Shipping Combination Mirrors and Towel Holders. SCOTT PAPER COMPANY, Chester, Pa. Published March 1, 1923.

26,099.—*Title:* NO. 04 MIRROR AND SCOTTISSUE TOWEL HOLDER. For Cartons for Shipping Combination Mirrors and Towel Holders. SCOTT PAPER COMPANY, Chester, Pa. Published March 1, 1923.

26,100.—*Title:* VISITOR'S NAPKIN. For Paper Napkins. FRANK R. STEARNS, Delta, Colo. Published April 2, 1923.

26,101.—*Title:* TRICKLE ICE. For Silver Ribbon Used for Christmas Trees and Other Decorations. UNITED STATES FOIL COMPANY, Louisville, Ky. Published April 10, 1922.

26,102.—*Title:* JIM DANDY. For Bread. HENRY V. WALTERS, Long Branch, N. J. Published November 28, 1922.

26,103.—*Title:* WHITE SULPHUR SPRINGS WATER. For Mineral Waters. WHITE SULPHUR SPRINGS, INC., White Sulphur Springs, W. Va. Published April 25, 1923.

PRINTS

REGISTERED JUNE 12, 1923.

6,755.—*Title:* FIT AS A FIDDLE. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 10, 1923.

6,756.—*Title:* "B. V. D." SHOWS THE WAY TO COMFORT. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 12, 1923.

6,757.—*Title:* CRYSTAL ROCK. For Carbonated and Plain Nonintoxicating Beverages and Drinking Waters. CRYSTAL ROCK CO., Spring Valley, Muhlenberg Township, Pa. Published May 3, 1923.

6,758.—*Title:* JOHNNY ON THE SPOT. For Dry Goods. THE ERLANGER DRY GOODS COMPANY, doing business as Stark Dry Goods Co., Canton, Ohio. Published April 29, 1923.

6,759.—*Title:* MIADA LINGERIE GUARDS FOR COMFORT NEATNESS SECURITY. For Lingerie Guards. THE MIADA CO., New York, N. Y. Published January 8, 1923.

6,760.—*Title:* MOTHER'S BREAD. For Bread. JOHN A. SLOAN, Chicago, Ill. Published November 15, 1922.

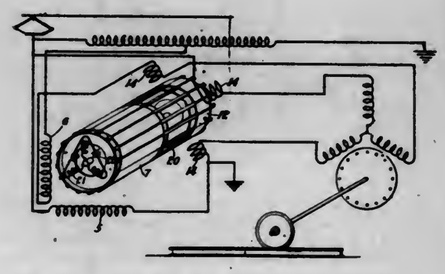
6,761.—*Title:* THE WONDER WATERPROOF WRAPPING PAPER BOYCE PERFECTION FIBRE. For Waterproof Wrapping Paper. THE UNION PAPER & TWINE CO., Cleveland, Ohio. Published March 1, 1923.

6,762.—*Title:* THE "NEVER-SAY-DRY" LATHER. For Shaving Cream. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Published April 16, 1923.

REISSUES.

JUNE 12, 1923.

15,623. EXCITING SYSTEM FOR PHASE CONVERTERS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 29, 1919. Serial No. 348,185. Original No. 1,281,955, dated Oct. 15, 1918, Serial No. 113,457, filed Aug. 7, 1916. 16 Claims. (Cl. 171—238.)

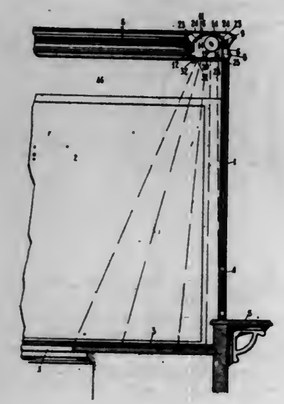


7. The combination including main and auxiliary induction machines having their secondaries rotating respectively in forward and backward directions and at corresponding speeds with respect to their respective primaries, and connections between the secondary windings of the two machines.

11. The combination with an alternating-current system, of a phase-converter of the rotary type having its primary winding connected thereto, a substantially two-to-one frequency converter, and connections for inserting said frequency converter between said system and the secondary winding of said phase-converter, whereby said secondary winding is supplied with exciting current of substantially twice the frequency of said system.

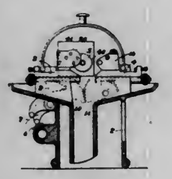
15,624. ILLUMINATING DEVICE. WILLIAM H. SPENCER, New York, N. Y., assignor, by mesne assignments, to I. P. Frink Inc., New York, N. Y., a Corporation of New York. Filed Apr. 21, 1923. Serial No. 633,569. Original No. 1,007,498, dated Oct. 31, 1911, Serial No. 599,470, filed Dec. 27, 1910. 5 Claims. (Cl. 240—4.)

4. In banking or counting house furniture the combination of a main vertically and longitudinally extending partition or screen, with another partition extending transversely thereto, counters on the inside of the main partition and on both sides of the transverse partition, cornice casings, substantially U-shaped, above said partitions with the longitudinal opening directed downwardly toward the counters, lighting units supported in said cornice casings, in line with the transverse partition and on the inside of the longitudinal partition, a reflector device in each cornice casing, above the lighting units, facing the bottom opening of its respective casing, diffusing members covering the openings of the casings, the reflector device in the transverse casing being arranged to receive rays and direct them on both sides of the partition to illuminate the counters, and the reflector device in the



longitudinal casing being arranged eccentrically with relation to the lighting units to direct all the rays received by it to the counter on the inside of the longitudinal partition.

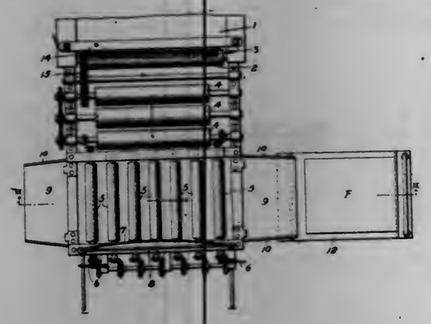
15,625. THREAD CUTTER. CHARLES H. TAYLOR, Toronto, Ontario, Canada, assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 12, 1920. Serial No. 358,123. Original No. 1,276,445, dated Aug. 20, 1918, Serial No. 83,104, filed Mar. 9, 1916. 49 Claims. (Cl. 10—154.)



9. In a screw-cutting machine, the combination with a rotary stock carrier and a slide, of a milling screw-cutting attachment comprising a frame mounted upon the slide; an annular member rotatably mounted upon said frame, the perimeter of said member having uniformly circumferentially spaced toothed multiple pe-

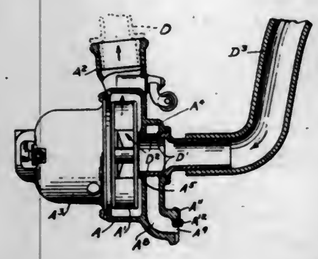
ripheral threads, means for rotating said annular member, said means including an internal gear, and gears adapted to impart rotation to the internal gear when the slide is shifted.

15,626. CONVEYER FOR SHEET MATERIAL. JOHN PLONKA, Woodlawn, Pa. Filed May 2, 1923. Serial No. 636,259. Original No. 1,432,086, dated Oct. 17, 1922, Serial No. 543,550, filed Mar. 14, 1922. 4 Claims. (Cl. 198—78.)



4. Conveyer apparatus for sheet material including two transfer tables, each consisting of positively driven rollers, the two tables being arranged angularly the one to the other, the second table lying beyond and extending across the delivery end of the first, its component rollers affording a skidway to material advancing from the first, and an abutment arranged on the side of the second table remote from the delivery end of the first table and affording an increasing resistance to a sheet advancing from the first table across the second.

15,627. VACUUM CLEANER. GEORGE CLEMENTS, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois, and one-half to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Apr. 30, 1923. Serial No. 635,712. Original No. 1,392,624, dated Oct. 4, 1921, Serial No. 633,011, filed June 14, 1911. 18 Claims. (Cl. 15—9.)

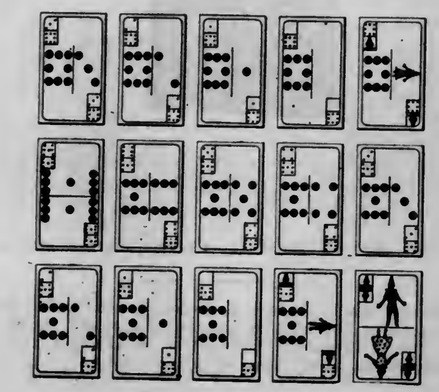


14. A vacuum cleaner comprising a motor, a fan driven thereby, a fan casing therefor provided with an air inlet opening, a suction nozzle in operative connection with said opening, a replaceable suction hose attachment member, and means for securing it to the wall of said pump chamber in connecting relation with said air inlet opening.

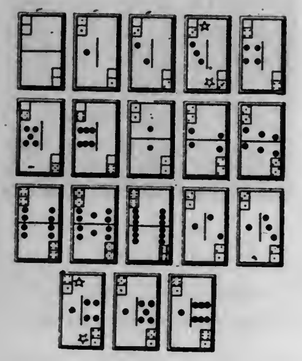
DESIGNS.

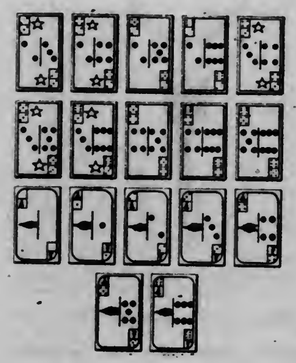
JUNE 12, 1923.

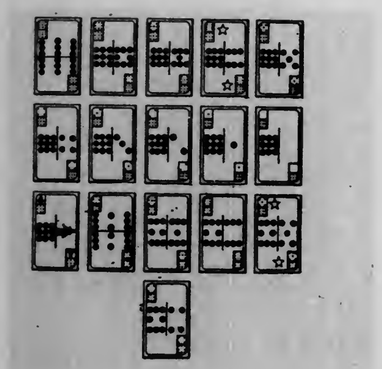
62,466. SET OF PLAYING CARDS. BENJAMIN BERNARD BLEY, Waco, Tex. Filed June 7, 1922. Serial No. 2,560. Term of patent 14 years.



62,466







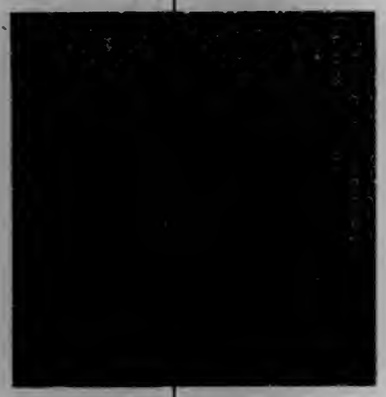
The ornamental design for a set of playing cards, as shown.

62,467. TEXTILE FABRIC. JOHN S. BOYD and THOMAS F. BOYD, Williamstown, Mass., assignors to John S. Boyd Co. Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Dec. 12, 1922. Serial No. 4,569. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

62,468. TEXTILE FABRIC. JOHN S. BOYD and THOMAS F. BOYD, Williamstown, Mass., assignors to John S. Boyd Co. Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Jan. 9, 1923. Serial No. 4,843. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

62,469. TEXTILE FABRIC. JOHN S. BOYD and THOMAS F. BOYD, Williamstown, Mass., assignors to John S. Boyd Co. Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Jan. 9, 1923. Serial No. 4,844. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

62,470. RING. ERNEST E. BROSS, Detroit, Mich., assignor to The Traub Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 6, 1922. Serial No. 4,506. Term of patent 7 years.



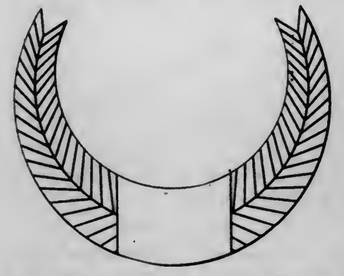
The ornamental design for a ring, as shown.

62,471. FLOWER HOLDER. KATHRYN R. BROSSMAN, New York, N. Y. Filed Jan. 30, 1923. Serial No. 5,031. Term of patent 7 years.



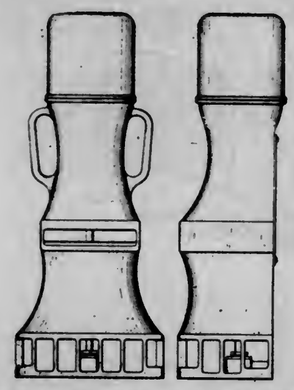
The ornamental design for a flower holder, as shown.

62,472. PIN OR BADGE. ROBERT B. BRYANT, Gaffney, S. C. Filed Oct. 19, 1922. Serial No. 4,036. Term of patent 3½ years.



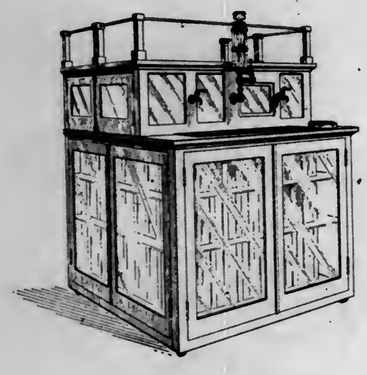
The ornamental design for a pin or badge, as shown.

62,473. DISHWASHING-MACHINE CASING. HARRY F. CAVANAUGH, THEODORE S. HALL, and ALBERT L. OLIVER, Oakland, Calif., assignors to Wonder Portable Dish Washer Company, Emeryville, Calif., a Corporation of California. Filed Oct. 4, 1922. Serial No. 3,876. Term of patent 3½ years.



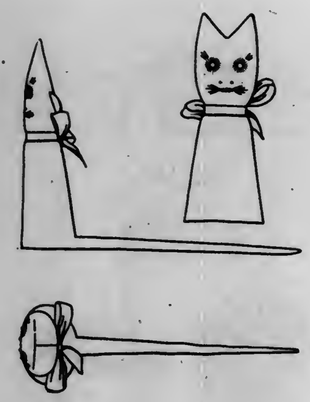
The ornamental design for a dishwashing machine casing, as shown.

62,474. DISPENSING CABINET. JOHN H. CHARBENEAU, Mount Clemens, Mich. Filed Aug. 18, 1922. Serial No. 3,436. Term of patent 3½ years.



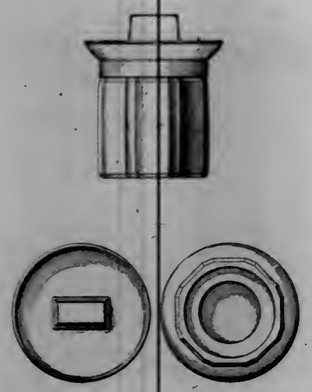
The ornamental design for a dispensing cabinet, as shown.

62,475. ANIMAL FIGURE OR SIMILAR ARTICLE. LILLIAN CHARTERIS, New York, N. Y. Filed Sept. 7, 1922. Serial No. 3,643. Term of patent 3½ years.



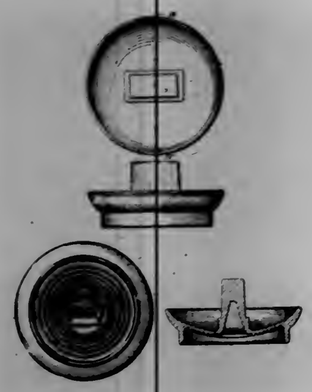
The ornamental design for an animal figure or similar article, as shown.

62,476. COMBINED HUMIDOR AND ASH TRAY. IRA M. CLARKE, New Martinsville, W. Va., assignor to New Martinsville Glass Manufacturing Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed May 31, 1922. Serial No. 2,479. Term of patent 7 years.



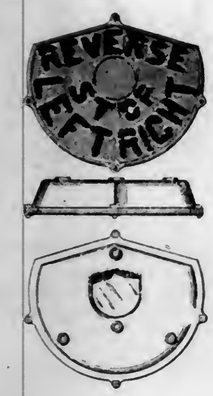
The ornamental design for a combined humidor and ash tray, as shown and described.

62,477. COMBINED ASH TRAY AND JAR COVER. IRA M. CLARKE, New Martinsville, W. Va., assignor to New Martinsville Glass Manufacturing Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed June 10, 1922. Serial No. 2,622. Term of patent 7 years.



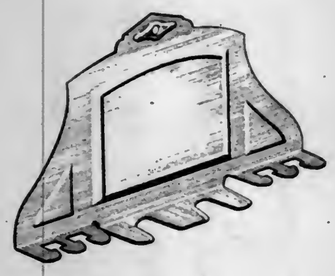
The ornamental design for a combined ash tray and jar cover as shown and described.

62,478. CASING FOR SIGNALING DEVICE FOR VEHICLES. WILLIAM CHARLES DIERKER, Peoria, Ill., assignor of one-half to Charles Thornton, Peoria, Ill. Filed Mar. 4, 1922. Serial No. 1,018. Term of patent 3½ years.



The ornamental design for the casing for a signaling device for vehicles as shown.

62,479. COMBINED TOOTHBRUSH AND PASTE HOLDER. ERNEST R. ERICKSON, Des Moines, Iowa, assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Filed May 15, 1922. Serial No. 2,255. Term of patent 7 years.



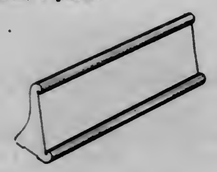
The ornamental design for a combined toothbrush and paste holder, as shown and described.

62,480. TEXTILE FABRIC. GUSTAVE M. FAUSER, Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,685. Term of patent 3½ years.



The ornamental design for a textile fabric substantially as shown.

62,481. HOLDER FOR SIGNS. WILLIAM J. FOGARTY, Dayton, Ohio. Filed May 28, 1921. Serial No. 473,409. Term of patent 7 years.





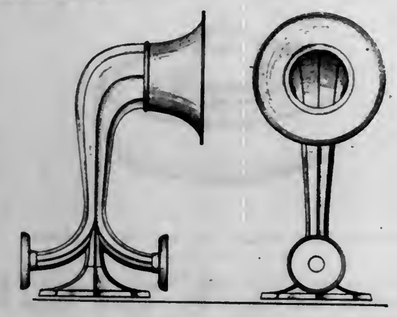
The ornamental design for a holder for signs as shown.

62,482. PLAITED FABRIC. HARRY FRISCHER, New York, N. Y. Filed Dec. 12, 1922. Serial No. 4,577. Term of patent 14 years.



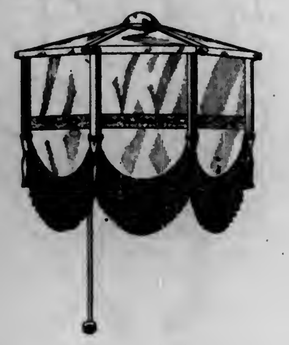
The ornamental design for a plaited fabric, as shown and described.

62,483. RADIO HORN. MAX GOLDFARB, New York, N. Y. Filed June 7, 1922. Serial No. 2,561. Term of patent 3½ years.



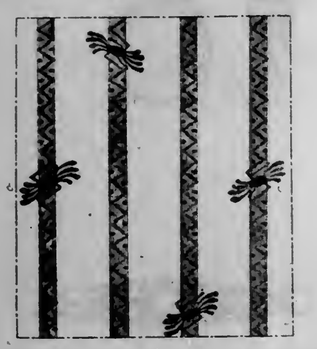
The ornamental design for a radio horn as shown.

62,484. LAMP SHADE. ANDREW L. GRENTZ, Van Nuys, Calif. Filed May 5, 1922. Serial No. 2,101. Term of patent 3½ years.



The ornamental design for a lamp shade as shown.

62,485. TEXTILE FABRIC. DIEDRICH HARTGENS, Union Hill, N. J., assignor to R. A. Tuttle Company, Boston, Mass., a Corporation of New York. Filed Jan. 11, 1923. Serial No. 4,863. Term of patent 14 years.



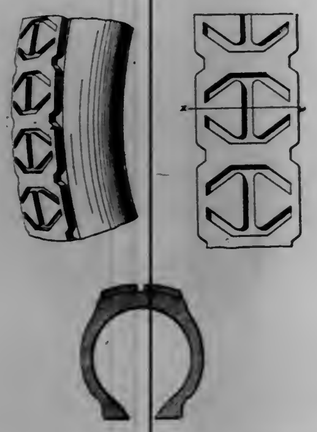
The ornamental design for a textile fabric, as shown.

62,486. NUT BOWL. WILLIAM M. HUMBERT, Eastside, Oreg. Filed Mar. 31, 1922. Serial No. 1,475. Term of patent 14 years.



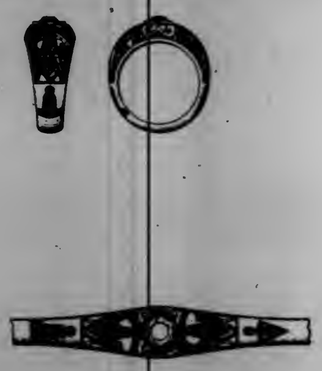
The ornamental design for a nut bowl as shown.

62,487. AUTOMOBILE TIRE. ROBERT H. KRATON, San Francisco, Calif. Filed Nov. 24, 1920. Serial No. 426,298. Term of patent 3½ years.



The ornamental design for an automobile tire, as shown.

62,488. MASONIC RING. LEOPOLD KRAUSS, Indianapolis, Ind. Filed Apr. 26, 1922. Serial No. 1,975. Term of patent 14 years.



The ornamental design for a Masonic ring, as shown.

62,489. DOLL. HILDUR C. LANGE, New York, N. Y. Filed Apr. 8, 1922. Serial No. 1,648. Term of patent 3½ years.



The ornamental design for a doll, as shown.

62,490. COMBINED LEATHER AND METAL FABRIC WATCH BRACELET. SIGMUND L. LEDERER, Providence, R. I. Filed Aug. 1, 1922. Serial No. 3,264. Term of patent 7 years.



The ornamental design for a combined leather and metal fabric watch bracelet, as shown.

62,491. COMBINED LEATHER AND METAL FABRIC WATCH BRACELET. SIGMUND L. LEDERER, Providence, R. I. Filed Aug. 8, 1922. Serial No. 3,316. Term of patent 7 years.



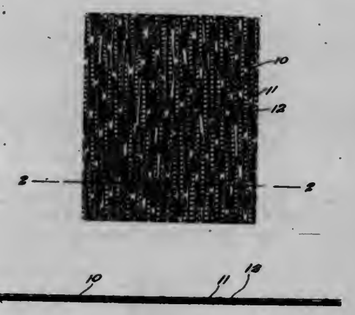
The ornamental design for a combined leather and metal fabric watch bracelet, as shown.

62,492. DOLL. RUTH A. LE GRAND, Wilkes-Barre, Pa. Filed Mar. 1, 1922. Serial No. 954. Term of patent 3½ years.



The ornamental design for a doll as shown.

62,493. LEATHER. LOUIS M. MUSLINER, New York, N. Y. Filed June 28, 1922. Serial No. 2,857. Term of patent 7 years.



The ornamental design for leather, as shown and described.

62,494. CHANDELIER. BARNET NEWLAND, New York, N. Y. Filed Dec. 9, 1921. Serial No. 521,259. Term of patent 3½ years.



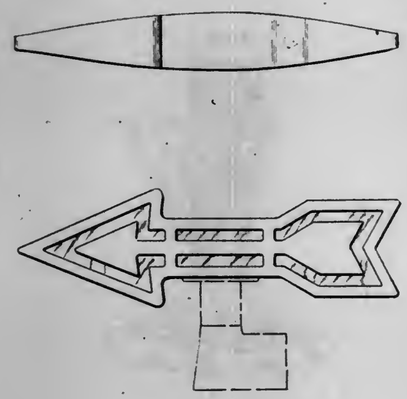
The ornamental design for a chandelier as shown.

62,495. CHANDELIER. BARNET NEWLAND, New York, N. Y. Filed Dec. 8, 1921. Serial No. 521,037. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

62,496. DIRECTION INDICATOR. RAY E. PARMENTER, Longmeadow, Mass. Filed Nov. 25, 1921. Serial No. 517,793. Term of patent 7 years.



The ornamental design for a direction indicator, substantially as shown.

62,497. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,860. Term of patent 7 years.



The ornamental design for a lamp or other pedestal, as shown.

62,498. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,861. Term of patent 7 years.



The ornamental design for a lamp or other pedestal, as shown.

62,499. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,862. Term of patent 7 years.



The ornamental design for a lamp or other pedestal, as shown.

62,500. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,863. Term of patent 7 years.



The ornamental design for a lamp or other pedestal, as shown.

62,501. LAMP OR OTHER SHADE. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,864. Term of patent 7 years.



The ornamental design for a lamp or other shade, as shown.

62,502. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,865. Term of patent 7 years.



The ornamental design for a lamp or other pedestal, as shown.

62,503. LAMP OR OTHER PEDESTAL. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed June 28, 1922. Serial No. 2,866. Term of patent 7 years.



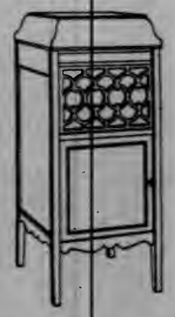
The ornamental design for a lamp or other pedestal, as shown.

62,504. PIN, BUTTON, BADGE, EMBLEM, OR ARTICLE OF SIMILAR NATURE. NORMAN L. ROULET, Toledo, Ohio. Filed Jan. 29, 1923. Serial No. 5,020. Term of patent 3½ years.



The ornamental design for a pin, button, badge, emblem, or article of similar nature substantially as shown.

62,505. PHONOGRAPH CABINET. OTTO J. HAARLANDER, South Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Oct. 25, 1922. Serial No. 4,092. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

62,506. PHONOGRAPH CABINET. OTTO J. HAARLANDER, South Orange N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Oct. 25, 1922. Serial No. 4,093. Term of patent 14 years.



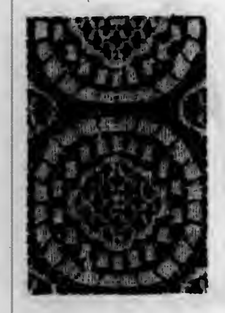
The ornamental design for a phonograph cabinet as shown.

62,507. LACE. HANS SEEL, Hopkinton, R. I., assignor to Richmond Lace Works, Alton, R. R. I., a Corporation of Maine. Filed July 19, 1922. Serial No. 3,131. Term of patent 7 years.



The ornamental design for lace, as shown.

62,508. LACE. BARNET SHAPIRO, Seagate, Brooklyn, N. Y. Filed Oct. 26, 1922. Serial No. 4,101. Term of patent 7 years.



The ornamental design for a lace as shown.

62,509. TOY MONKEY. JANE GRAY STOKES, New York, N. Y. Filed Nov. 27, 1922. Serial No. 4,418. Term of patent 3½ years.



The ornamental design for a toy monkey, substantially as shown.

62,510. TREAD FOR AUTOMOBILE TIRES. RAMFORD G. TAYLOR, Seattle, Wash. Filed Dec. 30, 1921. Serial No. 526,081. Term of patent 3½ years.



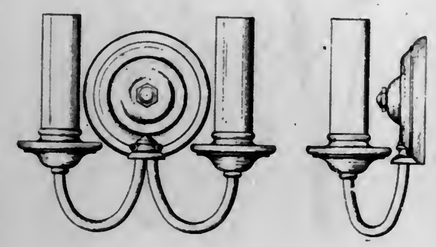
The ornamental design for a tread for automobile tires, as shown.

62,511. STOCKING DOLL. MARY A. THOMSON, New York, N. Y. Filed Oct. 9, 1922. Serial No. 3,921. Term of patent 7 years.



The ornamental design for a stocking doll, as shown.

62,512. LIGHTING FIXTURE. JAMES WILLIAMSON, Chicago, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1922. Serial No. 3,086. Term of patent 7 years.



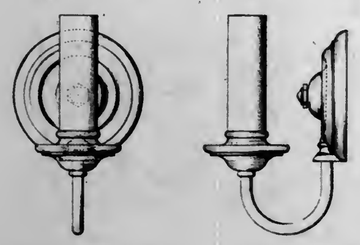
The ornamental design for a lighting fixture, as shown.

62,513. FINGER RING. ALBERT WERNER, New York, N. Y., assignor to Werner Bros., New York, N. Y., a firm composed of A. Morton Werner, Gerson Werner, Peretz Werner, and Albert Werner. Filed Jan. 18, 1923. Serial No. 4,924. Term of patent 3½ years.



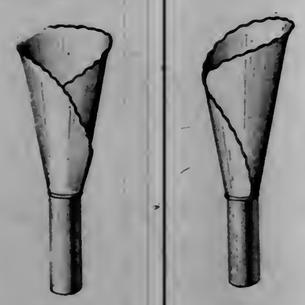
The ornamental design for a finger ring, as shown.

62,514. LIGHTING FIXTURE. JAMES WILLIAMSON, Chicago, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1922. Serial No. 3,087. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

62,515. ICE-CREAM CONE. EARL W. WOOD, Long Beach, Calif. Filed Oct. 12, 1922. Serial No. 3,954. Term of patent 14 years.



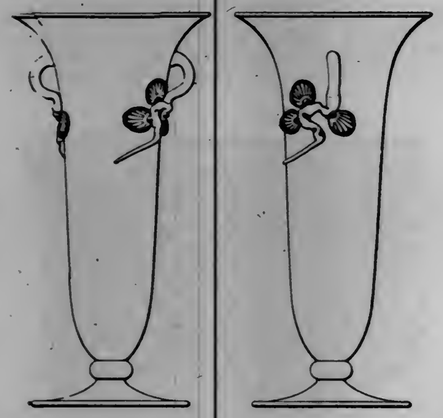
The ornamental design for an ice cream cone, as shown.

62,516. COMBINATION REAR LIGHT AND SIGNAL FOR AUTOMOBILES. ALOIS ZIMMERMANN, Yakima, Wash. Filed Feb. 27, 1922. Serial No. 917. Term of patent 3½ years.



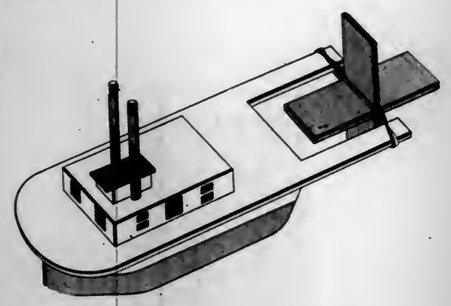
The ornamental design for a combination rear light and signal for automobiles, as shown.

62,517. VASE. FREDERICK CARDER, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed May 11, 1922. Serial No. 2,185. Term of patent 3½ years.



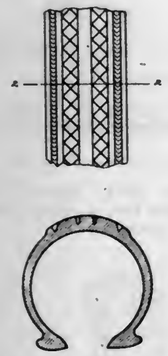
The ornamental design for a vase, as shown.

62,518. TOY BOAT. JAMES R. CLARK, Cicero, Ill. Filed Sept. 16, 1922. Serial No. 3,739. Term of patent 7 years.



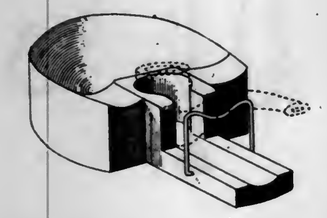
The ornamental design for a toy boat, as shown.

62,519. TIRE TREAD. ARTHUR M. ELLIOTT, Oakland, Calif. Filed Feb. 9, 1922. Serial No. 617. Term of patent 3½ years.



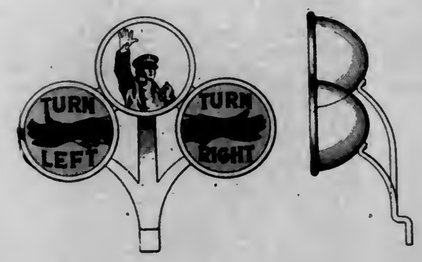
The ornamental design for a tire tread, as shown.

62,520. COMBINED ASH TRAY AND PIPE REST. EDWIN GEORGE FORBES, Berkeley, Calif. Filed Sept. 5, 1922. Serial No. 3,626. Term of patent 3½ years.



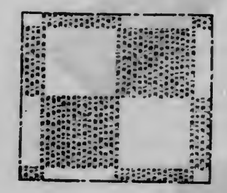
The ornamental design of a combined ash tray and pipe rest, substantially as shown.

62,521. AUTOMOBILE SIGNAL-LIGHT CASING. LEONARDO GUARDINO, Brooklyn, N. Y. Filed Mar. 25, 1922. Serial No. 1,381. Term of patent 14 years.



The ornamental design for an automobile signal light casing, as shown.

62,522. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,031. Term of patent 7 years.



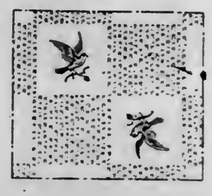
The ornamental design for a textile fabric, substantially as shown and described.

62,523. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,032. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown and described.

62,524. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,033. Term of patent 7 years.



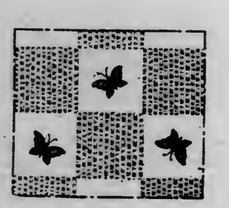
The ornamental design for a textile fabric, substantially as shown and described.

62,525. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,034. Term of patent 7 years.



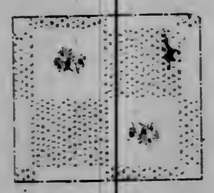
The ornamental design for a textile fabric, substantially as shown and described.

62,526. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,035. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown and described.

62,527. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,036. Term of patent 7 years.



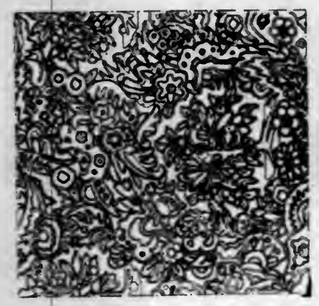
The ornamental design for a textile fabric, substantially as shown and described.

62,528. TEXTILE FABRIC. CHARLES W. HOWARD, Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware. Filed May 2, 1923. Serial No. 6,037. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown and described.

62,529. TEXTILE FABRIC. CLARENCE V. KOZLAY, New York, N. Y., assignor to S. Stroock & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 6, 1923. Serial No. 4,828. Term of patent 7 years.



The ornamental design for a textile fabric as shown.

62,530. CAMERA CASING. JOHN A. ROBERTSON and CHARLES F. SPEIDEL, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 16, 1922. Serial No. 723. Term of patent 14 years.

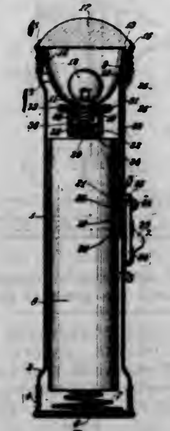


The ornamental design for a camera casing, as shown and described.

PATENTS

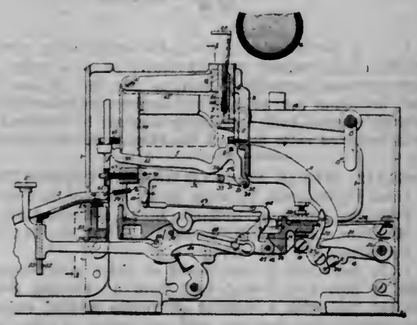
GRANTED JUNE 12, 1923.

1,458,124. BATTERY HANDLAMP. ERNEST ALSCHULER, St. Louis, Mo., assignor to United States Electric Manufacturing Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,704. 15 Claims. (Cl. 240—8.5.)



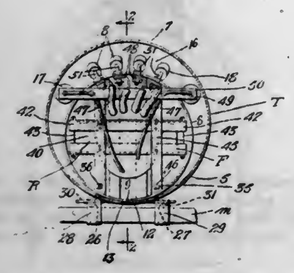
15. In a battery hand lamp having a battery-receiving casing a battery and a reflector provided with a nipple adapted to receive a lamp, a shock absorbing device, comprising, an insulating element adapted for mounting on the nipple, a metallic casing on said element for engaging and contacting with the battery terminal, and a yielding contact mounted within and directly connected with said casing and adapted to engage the lamp terminal.

1,458,125. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Nov. 5, 1921. Serial No. 513,112. 16 Claims. (Cl. 197—22.)



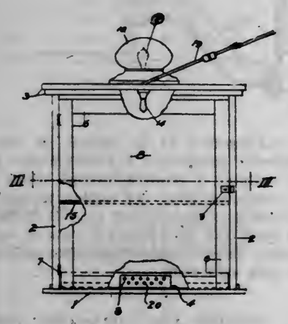
1. In a front strike typewriting machine, the combination of a pivoted type bar, a key lever, and jointed connections therebetween, the type bar being mounted or arranged to hang unsupported in normal position.

1,458,126. TRANSFORMER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 1, 1920. Serial No. 414,147. 8 Claims. (Cl. 175—361.)



1. In a transformer structure the combination with a tank having a lower circular portion and an upper enlarged portion eccentrically overhanging the lower portion, of a transformer in said lower portion, and leads from the winding of said transformer passing downward through the overhang between said upper and lower portions.

1,458,127. ELECTRICALLY-HEATED DISPLAY CABINET. WILLIAM L. BROWN, Wichita, Kans. Filed Apr. 8, 1921. Serial No. 459,567. 1 Claim. (Cl. 34—21.)



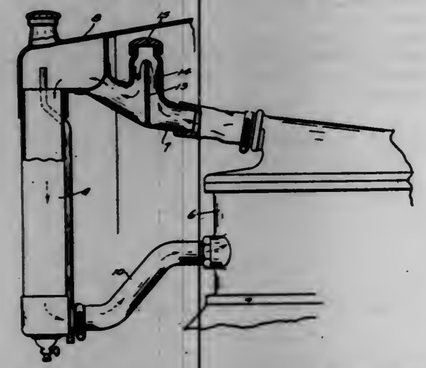
In a display and heating cabinet for nuts and the like, a rectangular closed structure provided with a plurality of glass walls, a top and a bottom; a metal heating-plate covering a relatively large portion of said bottom; an electric heating element mounted with its heating surface in direct contact with said plate; a perforated shield enclosing said element; a door in said cabinet; and a shelf extending half-way across the cabinet at a height about midway between the top and bottom thereof substantially as described.

1,458,128. RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed Oct. 13, 1919. Serial No. 330,319. 4 Claims. (Cl. 257—130.)



1. A radiator for vehicles comprising in combination, a series of spaced water tubes, and interposed corrugated perforated sheet metal plates providing air passages inclined to their direction of movement with the vehicle.

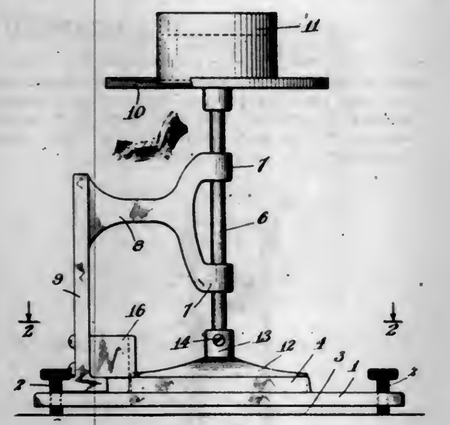
1,458,129. WATER-CIRCULATING SYSTEM. EDWARD T. CURRAN, Detroit, Mich. Filed Oct. 29, 1919. Serial No. 334,191. 9 Claims. (Cl. 123—174.)



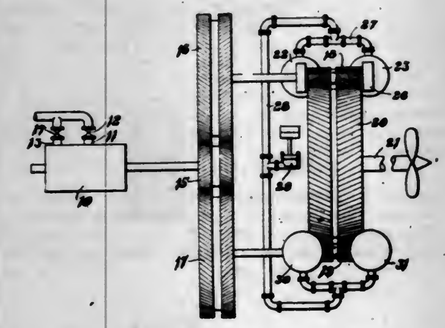
8. The combination of an engine, a water cooling system therefor comprising a radiator and a reservoir above the radiator, a conduit through which the heated water is conducted from the engine to said reservoir, and an obstructing wall in said conduit projecting above the water level and by which the flow of water is prevented except under a propelling force sufficient to lift the water over said wall.

1,458,130. PROCESS AND APPARATUS FOR CLASSIFYING FOOD PRODUCTS. CLARKE E. DAVIS, Douglaston, N. Y., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 6, 1921. Serial No. 459,207. 6 Claims. (Cl. 73—51.)

1. A process for testing the shortening values of different shortening ingredients in baked food products, which comprises making a series of cakes of identical composition under identical conditions, making another series of cakes under the same conditions as the first series, and with the same composition, except that a different shortening agent is used, in the same proportion as the shortening agent in the cakes of the first series, breaking cakes of each series by dropping increasing weights thereon from a height until the cakes break, and accurately measuring the force required to break the cakes of one series in comparison with the force required to break the cakes of the second series.



1,458,131. PRESSURE-DISTRIBUTING DEVICE FOR DOUBLE-PINION DRIVES. DAVID C. DAVIS, Chester, Pa., assignor to Westinghouse Gear and Dynamometer Company, a Corporation of Pennsylvania. Filed May 12, 1921. Serial No. 469,014. 17 Claims. (Cl. 74—7.)



1. In a transmission gearing, the combination with a divided and reunited gearing train, of a plurality of fluid-actuated supporting devices, one for a gear in each branch of said train, and fluid-pressure transmitting means between said supporting devices to maintain a predetermined ratio between the thrusts exerted thereby.

1,458,182. METAL AND EYE MEMBER CONNECTION. JOHN DE GLOPPER, Holland, Mich., assignor to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Mar. 7, 1922. Serial No. 541,880. 5 Claims. (Cl. 254—195.)

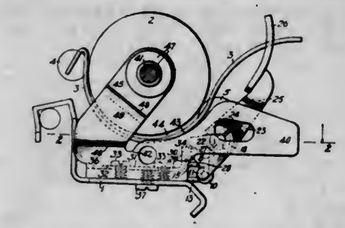
1. In combination, two pieces of sheet metal located side by side and formed each with an opening therethrough and with a circular outwardly pressed embossing around the opening, said embossing at one side being pressed into a radially extending portion of relatively small diameter, a member having a circular eye and a projecting shank, said eye being located between the sheet metal pieces and received in the recesses made by said embossings and the shank extending outwardly through the opening left by said radial embossings, and

a tubular member passing through the openings in the sheet metal pieces and the eye and having its ends



enlarged to make a permanent connection of the pieces and eye, substantially as described.

1,458,133. TYPEWRITING MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Feb. 3, 1922. Serial No. 533,945. 7 Claims. (Cl. 197—127.)



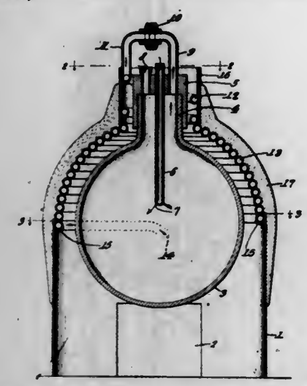
1. In a typewriting or like machine, the combination of a carriage, a cylindrical platen, and a platen frame comprising end plates at least one of which is made of sheet metal and at its rear portion terminates at the upper edge before it reaches lines coincident with the cylindrical surface of the platen and at its front portion crosses said lines to form a support for the platen shaft, the said front portion being bent outwardly at and near the said crossing to form a recess through which a side edge of paper extending beyond an end of the platen may pass as it is advanced with the platen.

1,458,134. SECTIONAL VESSEL. PAUL ARMAND JEAN MARIE CONSTAN, Mengam, near Brest, France. Filed June 8, 1918. Serial No. 239,035. 6 Claims. (Cl. 114—235.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



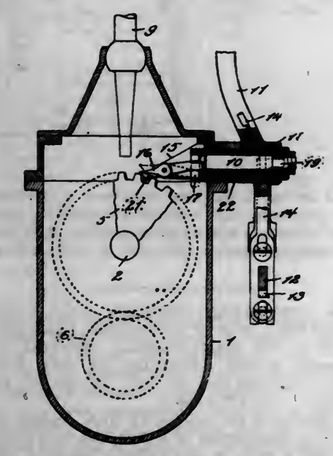
1. A navigable unit comprising in combination a hull element provided with a substantially vertical groove-like opening in one end thereof, a substantially T-section vertical channel communicating with said groove-like opening, and a second hull element provided with one end suitably shaped for co-operating with said groove-like opening to nest therein and carrying substantially T-shaped hooking tenons, and means also carried by said second hull element for engaging locking and tightening said hooking tenons in said channel to jam together and immovably connect the two hull elements to form a rigid unitary vessel.

1,458,135. DOUBLE-HEATING COMBINATION BOILER. MICHAEL B. KATO, Duquesne, Pa. Filed Feb. 16, 1921. Serial No. 445,523. 4 Claims. (Cl. 122—250.)



1. In an apparatus of the class described, the combination of a boiler, a series of pipe coils, a conduit for the supply of water directly into the boiler, a second conduit for the discharge of steam or hot water from the boiler into a series of pipe coils, the major portion of said coils being in a compact relation to one another, and forming a truncated conoid or cone shaped series of pipe coils gradually expanded downward to form a circular ridged wall around the upper half of said boiler but in a spaced relation to said boiler, a cylindrical cap-coupling to function as a means by which the boiler and conduits are connected onto one another and securely held in position by same, and a jacket supporting the aforesaid pipe coils and functioning in conjunction with the pipe coils to retain the heat used in heating the boiler and coils.

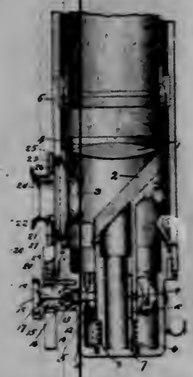
1,458,136. RELEASING MECHANISM FOR AUTOMOBILE HAND BRAKES AND THE LIKE. VALENTINE C. KLOEPPER, St. Louis, Mo. Filed May 16, 1921. Serial No. 469,780. 7 Claims. (Cl. 74—88.)



1. In an automobile, a pivoted brake-lever, means for locking the brake in set or braking position, and the

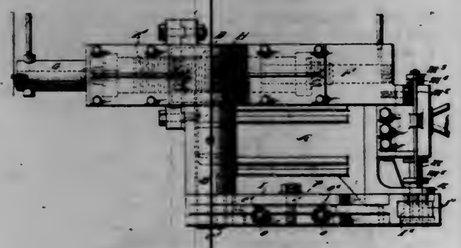
transmission, in combination with means for automatically effecting a release of the brake-lever from set or braking position upon movement of the transmission.

1,458,137. OPTICAL INSTRUMENT. FREDERICK L. G. KOLLMORGEN, Mountain Lakes, N. J. Filed May 2, 1919. Serial No. 294,147. 5 Claims. (Cl. 88—1.)



1. In a focusing device for optical instruments, the combination of a tube, an eye-piece sealed within said tube, said eye-piece comprising an eye lens, a window in said tube opposite the eye lens of the eye-piece, and focusing means exterior of the tube for moving the eye-piece relatively to the tube and to said window.

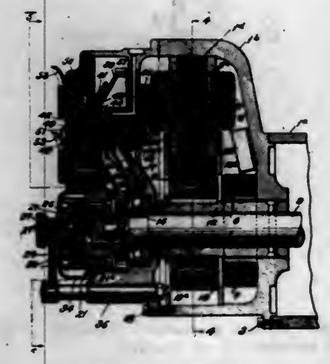
1,458,138. CLAMP FOR WELDING-MACHINE ATTACHMENTS. HARRY W. KRANZ and JOHN LUKES, Cleveland, Ohio, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 24, 1920. Serial No. 383,701. 6 Claims. (Cl. 219—17.)



1. In a device of the kind described, a pneumatically operated oscillating arm adapted to maintain a rim end in proper position while welding, together with fluid operated means for locking said arm in said holding position.

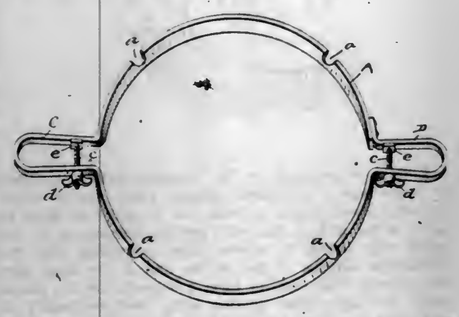
1,458,139. COMBINED IGNITION AND LIGHTING GENERATOR. LEON J. LE PONTOIS, Lakewood, Ohio, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 23, 1917. Serial No. 187,787. Renewed Oct. 25, 1922. Serial No. 596,895. 7 Claims. (Cl. 171—209.)

1. In apparatus for generating high tension ignition currents, the combination of a field structure comprising a stator and a rotor, a field exciting means, a high tension generating winding mounted on the stator in inductive relation to the exciting means and having a coarse section and a fine section, the stator, rotor and generating winding in operation being maintained in homopolar relation to each other, an angularly adjustable flux shifter between the stator and rotor, and means for



opening and closing the circuit through the coarse section of the generating winding comprising an actuating cam on the rotor and separable electrodes carried by and adjustable with the flux shifter.

1,458,140. AUTO HEADLIGHT WRENCH. WILLIAM A. LEWIS, Wooster, Ohio. Filed July 24, 1922. Serial No. 577,228. 1 Claim. (Cl. 81—64.)

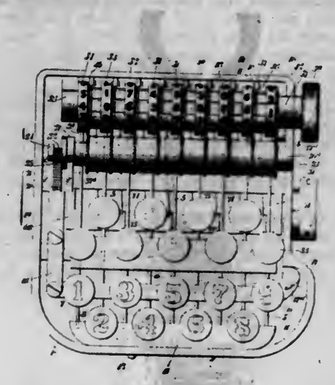


An auto-headlight wrench, comprising in combination, a pair of opposite semi-circular bands adjacent to each other; a pair of handles opposite each other on said bands; said handles projecting outwardly from the adjacent terminals of said bands, respectively; each handle comprising a pair of slightly spaced apart resilient members which unite outwardly in a bend thereof, and are inwardly joined to the adjacent terminals of said bands, respectively; and means for positively drawing said spaced apart members toward each other, and means for relaxing them by their resilience, substantially as set forth.

1,458,141. ADDING MACHINE. HUBERT MEREDITH-JONES, New York, N. Y., assignor of one-half to Arthur Caverno, New York, N. Y. Filed May 5, 1916. Serial No. 95,527. 30 Claims. (Cl. 235—82.)

1. An adding machine having a plurality of number keys and totalizing devices adapted to be actuated by said number keys, comprising a lever adapted to be moved distances varying according to the number keys, said number keys being located at distances from the pivot of said lever proportional to the numerals corresponding respectively thereto, column keys, and means controlled

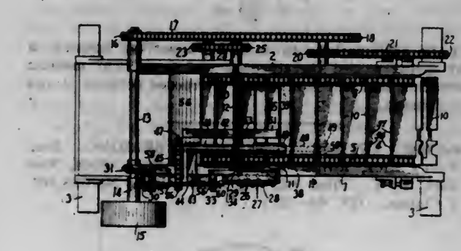
by said column keys for directing the movement of said lever to the desired column.



5. An adding machine having a plurality of number keys, and a plurality of column keys, and disengageable means whereby amounts each including a plurality of figures may be progressively registered merely by manipulation of the number keys.

17. An adding machine having means for adding progressively by registering one amount after another, comprising a plurality of column keys, a plurality of number keys, means for depressing the column key of the column next to be computed by the depression of the number key and releasing the previously depressed column key, and means for adding in columns.

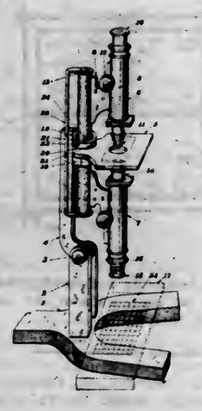
1,458,142. BUTT-REMOVING DEVICE. SAMUEL E. MORRAL and WILLIAM W. MORRAL, Morral, Ohio. Filed June 16, 1922. Serial No. 568,712. 25 Claims. (Cl. 146—84.)



1. In a machine of the character described, a butt removing device, a conveyor to move an ear of corn toward said butt removing device, means to move said ear of corn transversely to said conveyor, a gaging bar to engage the butt end of the ear and position the same with relation to said butt removing device, and a spiral roller to engage the butt end of the ear and advance the same during the butt removing operation.

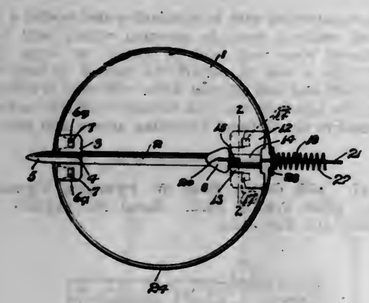
1,458,143. OPTICAL METHOD AND APPARATUS. HERMANN J. MULLER, New York, N. Y. Filed June 8, 1920. Serial No. 387,286. 16 Claims. (Cl. 88—24.)

1. The method of reversed microscopy which consists in projecting light from a source of the character described through a compound microscope, in the reverse direction upon a microscopic object lying in the objective



plane, with the resultant superposition upon the microscopic object of a greatly reduced image of the source of light.

1,458,144. DAMPER AND DAMPER-CLIP CONSTRUCTION. THOMAS OLINGER, Holland, Mich., assignor to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Oct. 16, 1922. Serial No. 594,835. 8 Claims. (Cl. 126—292.)

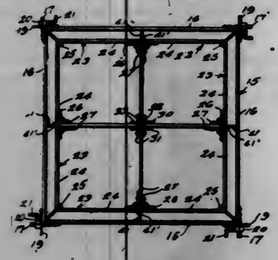


1. In combination, a disk of sheet metal, a sheet metal clip attached at one side of the disk, comprising two sides bent to lie one at each side of the disk, said clip and disk being formed for the passage of one end of an operating member between them, and interengaging means on the clip and disk and on the inner end of the operating member for detachably securing them together, substantially as described.

1,458,145. MOLDING APPARATUS. JOHN F. PARSONS, Pullman, Mich. Filed Dec. 16, 1921. Serial No. 522,826. 4 Claims. (Cl. 25—128.)

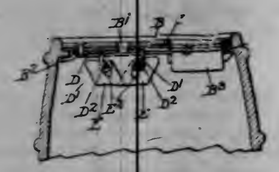
1. In molding apparatus of the character described, an outer casing, a collapsible core adapted to be arranged therein, said core embodying a plurality of sides, each side comprising a pair of sections, the outer ends of the sections of one side being hinged to the outer ends of the section of the adjacent sides hinged leaves connected with

the inner ends of the sections of each side and extending inwardly, a post, and arms pivotally connected with



the post to swing vertically and having their outer ends arranged between the inner ends of the leaf hinges and pivotally connected therewith.

1,458,146. BANK. ARTHUR C. PRINCE, Chicago, Ill. Filed Nov. 23, 1921. Serial No. 517,171. 11 Claims. (Cl. 232—4.)



1. In combination with a coin bank a slot having a plurality of tumblers movably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through said slot and adapted when said bank is reversed to block the egress of the coin through said slot, some of said tumblers at all times extending across said slot.

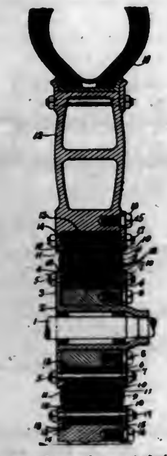
1,458,147. AIR GUN. BERT W. PUNCHES, Plymouth, Mich. Filed Feb. 6, 1922. Serial No. 534,320. 17 Claims. (Cl. 124—11.)



10. In an air gun, the combination with a false barrel, of a true barrel longitudinally movable therewithin, a guide within the outer end of said false barrel for the outer end of said true barrel, said guide having an aperture normally covered by said true barrel but adapted to be exposed beyond its outer end, and said guide being rotatable relative to said false barrel as well as movable longitudinally thereof to expose its aperture, and means connecting said false barrel and guide for normally holding said guide in a predetermined position relative to said false barrel.

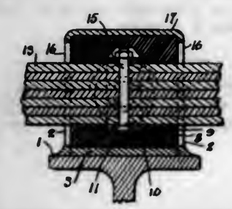
1,458,148. CUSHION WHEEL. RALPH REED, Cincinnati, Ohio. Filed Sept. 30, 1922. Serial No. 591,615. 7 Claims. (Cl. 152—3.)

7. In combination in a wheel, a hub portion, a rim portion and resilient element interposed between, reinforcing members located in said resilient element, and air spaces located therebetween in the resilient element,



and detachable members for retaining said resilient and reinforcing elements in position.

1,458,149. SHOCK-ABSORBING DEVICE. RALPH REED, Cincinnati, Ohio. Filed Oct. 9, 1922. Serial No. 593,207. 10 Claims. (Cl. 267—52.)



1. In combination, an axle, a supporting housing, a leaf spring passed therethrough and a resilient medium embracing said leaf spring and interposed between it and the housing.

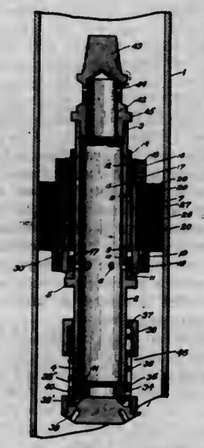
1,458,150. ANTIFRICTION ROLLER BEARING. JOEL TROUT RICE, ROYAL A. RICE and JOEL A. RICE, New York, N. Y. Filed July 22, 1920. Serial No. 398,103. 4 Claims. (Cl. 64—62.)



4. A roller bearing including inner and outer bearing rings forming an annular race, an annular series of rollers in said race, and a cage carrying said rollers and disposed between said bearing rings, said cage comprising

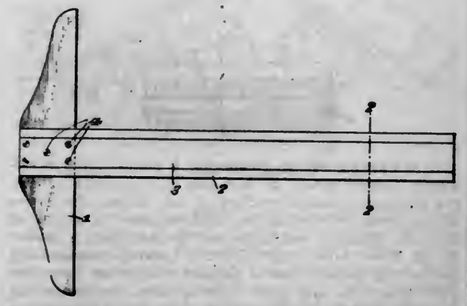
rings at opposite sides of the bearings, one of which presents bearings for the journals at the adjacent ends of the rollers, the other of said cage rings being composite and composed of separate inner and outer ring elements, the inner one of which is rigid with the first-mentioned cage ring and presents radial slots extending to the outer periphery for receiving the journals on the adjacent ends of the rollers, said inner ring element being of less diameter than the cage ring at the opposite side, said outer ring element presenting a radial flange directed laterally inward to fit over said inner ring element and close the slots therein; together with means to detachably fasten said inner and outer ring elements together.

1,458,151. OIL-WELL SWAB. LAWRENCE E. ROBINSON, deceased, late of Coffeyville, Kans., by Edith A. Robinson, administratrix, Coffeyville, Kans. Filed Aug. 12, 1921. Serial No. 491,718. 11 Claims. (Cl. 166—19.)



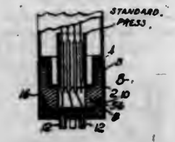
1. An oil well swab comprising a central tubular member having an inlet and an outlet, a sleeve slidable upon the central member, means carried by the sleeve for valving the inlet, and oil lift rings carried by the sleeve, the rings being interposed between the inlet and the outlet.

1,458,152. T SQUARE. WILKENS A. SCHENCK, Philadelphia, Pa., assignor to Charles H. Robbins, jr., Philadelphia, Pa. Filed July 21, 1922. Serial No. 576,449. 4 Claims. (Cl. 33—112.)



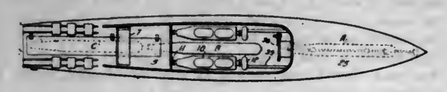
1. A T-square, the blade of which is provided with a reinforcing strip having fixed connection therewith at one end and slidable connection with the remaining portion thereof.

1,458,153. VACUUM TUBE BASE AND RECEPTACLE. FRANK H. SHAW, East Orange, N. J. Filed Aug. 20, 1919. Serial No. 318,838. 9 Claims. (Cl. 250—27.)



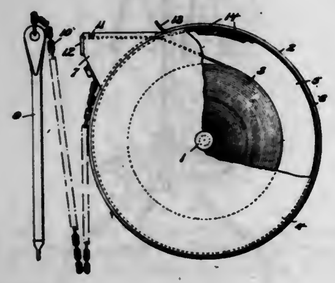
1. A base for a vacuum tube or other electrical apparatus, comprising a shell having a cylindrical end and having molded into air and moisture proof fit in said cylindrical end, under pressure, a closure of insulating material, said shell having openings through the shell wall adjacent to said closure, and said closure and said shell being interlocked by individual radial projections from said closure molded under pressure into said openings.

1,458,154. BOAT. WILLIAM B. SHEARER, New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,170. 2 Claims. (Cl. 114—18.)



2. A boat having a forward torpedo launching space, a stern reserve torpedo space, an intermediate closed cabin and an open cockpit at the rear of the latter, part of the cockpit overlying said reserve space and constituting a removable deck over said reserve space.

1,458,155. WIRE-MARKING DEVICE. HERBERT E. SHREEVE, Maplewood, N. J. Filed Dec. 3, 1920. Serial No. 427,996. 2 Claims. (Cl. 281—5.)

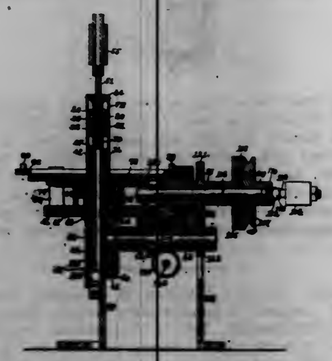


1. A device for housing and marking a strip of copper foil, comprising a housing having a discharge opening at one point in its marginal portion, a bracket secured to such marginal portion adjacent the discharge opening, a yieldable supporting writing platen on said bracket for receiving a piece of copper foil strip coiled in the housing thereon.

1,458,156. CIRCULAR WARP-KNITTING MACHINE. HENRY M. SMITH, Salem, Mass. Filed Mar. 16, 1918. Serial No. 222,963. 8 Claims. (Cl. 66—33.)

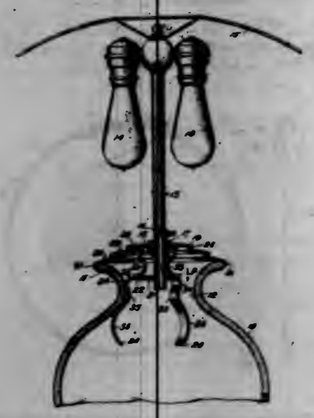
1. In a knitting machine, in combination, a plurality of needles provided with eyes and with latches for clos-

ing and opening said eyes, a guiding tube for said needles, means for reciprocating said needles, a stripper tube located above said guiding tube and co-operating with said needles to support the free ends thereof and to limit inward movement thereof, a carrier for a plurality of threads revoluble about said reciprocating needles, guides



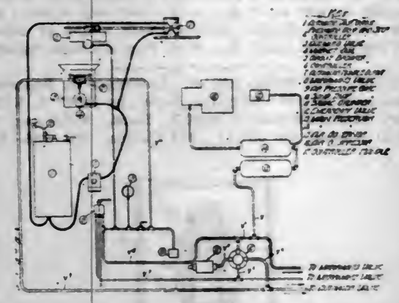
for said threads movable with said carrier in a fixed path outside of and about said needles and means for presenting said threads to said needles to enable the latch of one needle to be moved into its open position by a thread in the eye of said needle and to be closed by a loop of the same thread and confine in the eye of said needle a succeeding thread.

1,458,157. ELECTRIC LIGHTING FIXTURE. HAROLD J. STRICH, Brooklyn, N. Y., assignor to L. D. Bloch & Co., New York, N. Y., a Corporation of New York. Filed May 19, 1920. Serial No. 382,561. 2 Claims. (Cl. 240—52.)



1. A lamp of the character described comprising, in combination, a hollow base portion having a mouth and neck, and a fixture to be applied thereto and removable therefrom comprising a vertical rotary tubular standard provided on its upper end with an electric lamp bulb and containing within it the electric wires for said bulb and having a threaded lower end, a series of resilient sheet metal arms depending into said neck, a non-rotary support to which said arms are hinged and a wedge-disk on the threaded end of said standard and between said arms and having a laterally projecting finger to engage the edge of one of said arms on the rotation of said standard for arresting said disk against rotation, said arms having downwardly and outwardly inclined portions to engage said disk and having outwardly curved portions to engage said neck.

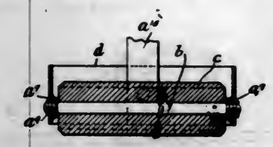
1,458,158. AUTOMATIC CAR-CONTROL MECHANISM. JOHN SUTHERLAND, Davenport, Iowa. Filed Sept. 2, 1919. Serial No. 321,037. 93 Claims. (Cl. 303—19.)



2. An automatic car stopping means for electric cars and the like comprising a working circuit, a controller, a circuit breaker, and electrically operated means for operating the circuit breaker to break the working circuit when the operator removes his hand from the controller handle when the controller is in running position, and auxiliary means controlled by the operator for neutralizing the circuit breaker operating means, said means comprising a foot switch pressure on which interrupts the circuit breaker operating means.

21. An automatic car stopping means for electric cars and the like comprising a working circuit, a controller, a circuit breaker, and electrically operated means, operative only when the controller has been moved away from the neutral position, for operating the circuit breaker to break the working circuit when the operator removes his hand from the controller handle, and auxiliary means controlled by the operator for neutralizing the circuit breaker operating means, said means comprising a foot switch, pressure on which interrupts the circuit breaker operating means, and an air brake and automatic means operated by the circuit breaker, and operating means for putting it into operation when the working circuit is broken.

1,458,159. DEVICE FOR WASHING CLOTHES AND THE LIKE. BENJAMIN FRANKLIN TITUS, Brixton, England. Filed Aug. 28, 1920. Serial No. 406,693. 2 Claims. (Cl. 68—8.)



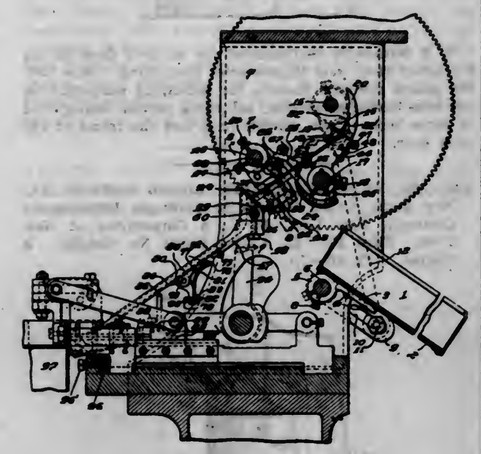
1. A washing device comprising a plate having downwardly turned flanges at each side and inwardly extending perforated bosses provided in each flange, the bosses of one flange being dispose- each opposite to a boss of the other flange, a handle secured to said plate, a plurality of fluted rollers, and spindles passing through said rollers and perforations to support said rollers rotatably with respect to said plate, said spindles having bearing portions slightly longer than the length of the rollers and reduced end portions forming shoulders adapted to seat against said bosses, said reduced end portions passing through said perforations, and being clamped to said plate to prevent rotation thereof.

1,458,160. SIGN. ANDREW P. TRUCKSESS, Camden, N. J. Filed Sept. 5, 1922. Serial No. 586,099. 1 Claim. (Cl. 40—130.)



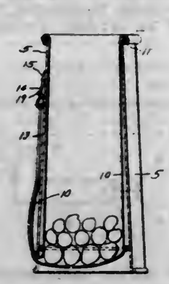
In a sign, forwardly extending top, bottom and side edges forming a recess in which is located a sign frame spaced on every side from the forwardly extending portions, said framework of the sign consisting of a closed back wall, bottom wall and side walls, said frame being divided into horizontal compartments by horizontal partitions, each compartment deeper and extending forward farther than the one above it, chambers being provided by vertical partitions which are provided with flanges at their front as well as the side walls, the top wall of a compartment being the bottom of the next above it, and is provided with openings to admit light, the letter plates and glass plates resting upon the horizontal partitions and being spaced from the front edge the distance of the openings through which the letter plates are inserted, and lamps in the recess between the sign frame and the forwardly extending edges.

1,458,161. MULTIPLE STAPLING MACHINE. HARRISON B. WALTER, Philadelphia, Pa., assignor to Fibre Container Company, a Corporation of Pennsylvania. Filed Oct. 22, 1919. Serial No. 332,471. 5 Claims. (Cl. 1—8.)



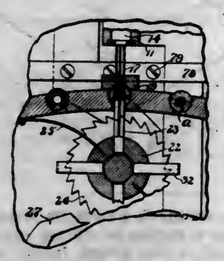
1. In a stapling machine provided with staple separating means and staple driving means arranged to reciprocate horizontally, the combination of inclined means connected between said staple separating and staple driving means over which separated staples hang vertically and are adapted to slide gravitationally, means connected to said inclined means for successively releasing said staples to allow the same to move gravitationally to said driving means, means to turn said staples into a horizontal position in front of said driving means, means on said driving means for operating said releasing means in time relation with the operation of said driving means, and resilient means for returning said releasing means to inoperative position.

1,458,162. FRUIT-PICKING RECEPTACLE. DANIEL C. WHITENACK, Selah, Wash. Filed Dec. 29, 1921. Serial No. 525,667. 4 Claims. (Cl. 150—2.)



1. A fruit-picking receptacle comprising a metallic sheath wider at the bottom than at the top, a fabric lining therein constituting a bag and a discharge spout constituted by an extension of the fabric lining and extending laterally beyond the side of said receptacle at a point above the level of the bottom of said sheath, the bottom of the bag lying wholly above the lower edge of said sheath until said spout is released to discharge the contents of the bag.

1,458,163. FRUIT-PITTING MACHINE. WARREN C. WHITMAN, Medford Hillside, and GEORGE E. GOODRIDGE, Reading, Mass., assignors to Atlas Products Co. Inc., Boston, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1921. Serial No. 491,893. 39 Claims. (Cl. 146—5.)



34. A fruit pitting machine comprising means for holding the fruit, means for slitting the fruit transversely of the pit, and means for pushing the pit out through the slit.

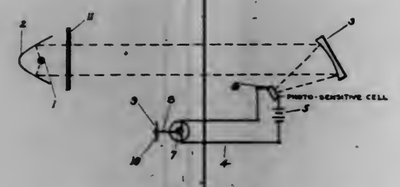
1,458,164. CUFF BUTTON. ALLAN H. BACON, St. Louis, Mo. Filed July 1, 1922. Serial No. 572,274. 6 Claims. (Cl. 24—102.)



1. A cuff button comprising two end button members, a link pivotally united to one of said members, an addi-

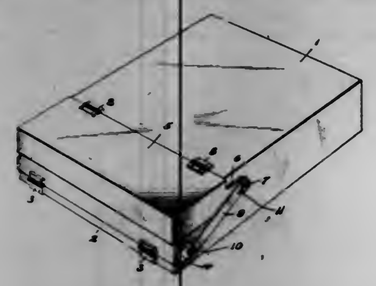
tional link pivotally united to the other one of said members, an abutment on the first named link arranged to slide on the second one, a separate abutment on the second link arranged to slide on the first one, and a single coil spring of the expansion type encircling both of said links and pressing against said abutments.

1,458,165. SYSTEM OF ELECTRICAL CONTROL. WILLIAM W. COBLENTZ, Washington, D. C. Filed Sept. 22, 1920. Serial No. 412,050. 9 Claims. (Cl. 250—2.)



1. A method of thermal radio dynamic control consisting in the optional projection of thermal rays of wave lengths greater than 0.65 micromillimeters or less than 0.65 micromillimeters onto a light reactive receiver interposed in a relay circuit, whereby to increase or decrease the electrical conductivity of said receiver to vary the flow of current through an electrical responsive device connected in such circuit.

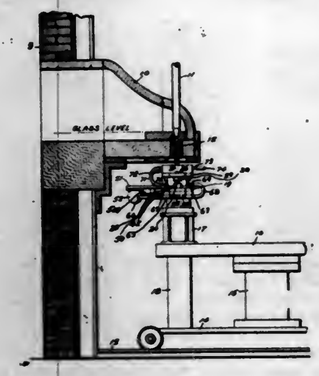
1,458,166. PHOTOGRAPHIC-PAPER RECEPTACLE. WILLIAM C. COX, Washington, D. C. Filed June 16, 1920. Serial No. 389,512. 4 Claims. (Cl. 220—35.)



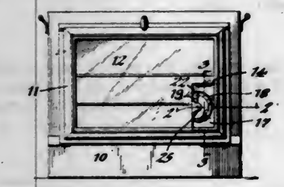
1. A box-like receptacle having its forward end open and also having a portion of its top open adjacent to such forward end, a flap hinged to the receptacle and normally closing the forward end opening, a lid hinged to the receptacle and normally closing the opening in the top, a crank arm extending backwardly from said lid, and a link pivotally connected to said flap and having a jointed connection with the lid.

1,458,167. METHOD OF AND APPARATUS FOR FEEDING MOLTEN GLASS. SCOTT DAVIDSON, Hillsboro, Ill., assignor to Schram Glass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 29, 1921. Serial No. 440,915. 11 Claims. (Cl. 49—5.)

1. The herein described method of delivering glass to the moulds of a forming machine, which consists in the establishment of a regulated stream of glass, arresting the downward movement of said stream until a sufficient mass of glass has been accumulated therefrom, supporting said mass along its bottom and its side a predetermined interval, and then first releasing the mass entirely on its bottom and simultaneously during such release imparting to the batch a rotary movement, and immediately subsequent to the release of the batch on its bottom a jolt for assisting the discharge of the batch by gravity.

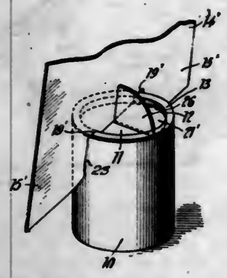


1,458,168. OVEN THERMOMETER. GEORGE J. DAY, Buffalo, N. Y. Filed Aug. 19, 1921. Serial No. 493,768. 8 Claims. (Cl. 73—119.)



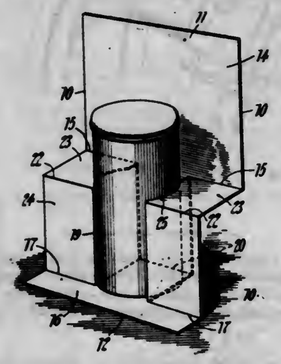
1. A detachable thermometer for an oven door having a window pane, said thermometer comprising a base having means mounted thereon for indicating temperatures, the base having a marginal attaching portion constructed to enter between the window pane and the frame of the oven door.

1,458,169. DISPLAY DEVICE. ADOLPH DIETSCHE, Jr., New York, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Feb. 23, 1922. Serial No. 538,691. 5 Claims. (Cl. 40—7.)



1. A display device adapted for erection on a container and comprising a body of sheet material from one portion of which projects a pair of legs, the infacing edges of said legs being spaced apart a distance less than the major transverse dimension of the container on which the display is adapted for erection, said inner edges being adapted to locate the device against rearward movement, said body having articulated thereto between and on a line substantially normal to the inner edges of said legs a wing member for engagement with the container top, said wing member having an ear articulated thereto adapted to locate the device against forward movement.

1,458,170. DISPLAY DEVICE. ADOLPH DIETSCHE, Jr., New York, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1922. Serial No. 541,852. 2 Claims. (Cl. 211—24.)



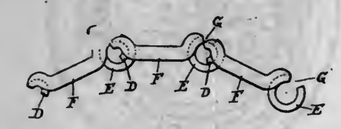
1. In a display device of sheet material adapted for use in displaying an upstanding article, the combination of a rear upright member and a base member, said rear member having a mid-down-reaching leg articulated to a foot rear-reaching from said base member, opposite tables articulated to and forwardly reaching from said rear member on each side of said rear member leg respectively, and opposite panels articulated to and upstanding from said base member on each side of said base member foot respectively, the upper ends of said panels being articulated to the forward ends of said tables respectively, said device being adapted for folding into flat form when not in use.

1,458,171. TOOL. JOHN S. DONALDSON, New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,322. Renewed Feb. 14, 1923. 2 Claims. (Cl. 279—97.)



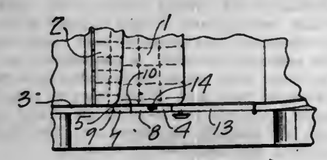
1. A hammer-driven tool, comprising a shank bifurcated at its outer end by a longitudinal slot of uniform width and having a transverse hole in its bifurcated portion, an operative member having a flat projection with substantially parallel sides throughout a range essentially greater than the depth of the slot and adapted to enter said slot and engage the inner end of the slot and having a transverse hole registering with the hole in the shank, and a clamping bolt extending through said holes, the hole in the projection being elongated longitudinally of the tool so that while the sides of the aperture engage said bolt a clearance is provided between the lower end of the aperture and the bolt.

1,458,172. LOCKING LINK FOR CHAIN BELTS. RAYMOND W. DULL, La Grange, Ill., assignor to Link Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1920. Serial No. 407,618. 7 Claims. (Cl. 59—91.)



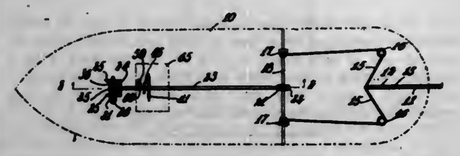
1. A chain belt comprising a plurality of separate links each having a cross bar at one end and a hook at the other with side bars slightly spread near the cross bar to give free access to the hook.

1,458,173. EXPANSIBLE AUTOMOBILE SEAT. ADAM E. FISHER, St. Louis, Mo. Filed Nov. 22, 1922. Serial No. 602,544. 6 Claims. (Cl. 296—63.)



1. In combination with an automobile seat and body having the seat end portions cut away, expansible ends for the seat, comprising panels hinged together and then in turn hinged rearwardly to the body in lieu of the cut away portions, and so as to buckle horizontally backwardly outwardly.

1,458,174. AUTOMATIC SHIP-STEERING MECHANISM. JUSTIN FIZESAN, Saugerties, N. Y. Filed Apr. 18, 1922. Serial No. 555,147. 2 Claims. (Cl. 114—146.)



1. In combination with a rudder, a rotatable shaft operatively connected thereto, power mechanism for rotating said shaft in opposite directions, control means therefor including a clutch element, an arm adapted to shift said clutch element, a rock-shaft on which said arm is fixed, a pair of clutch elements one of which is fixed and one loose on said rock-shaft, a clutch sleeve loose on said

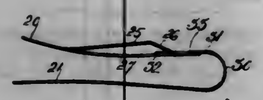
shaft between said clutch elements, a steersman's wheel fixed on said clutch sleeve, and means forming an operative connection between said loose clutch element and said first mentioned shaft.

1,458,175. VEHICLE WHEEL. THOMAS J. FLAHIE, Pennville, Ind. Filed July 1, 1921. Serial No. 481,926. 2 Claims. (Cl. 152—28.)



1. A vehicle wheel comprising in combination, a hub, spokes radiating from the hub, rings secured to the sides of the spokes toward the hub from the ends of the spokes and connecting all of the spokes near their outer ends, a channeled rim located outward from the ends of the spokes and in which the outer end portions of all of the spokes are loosely located, a double coil-spring located between each two of said spokes, means for securing the central portion of the springs to said rim, means for mounting each coil of each of said springs on a stem, means for connecting said stems to said rings whereby said hub is retained resiliently in suspension, an inner disc, and an outer disc, means for securing said discs to said rim whereby they will extend inward toward the hub but spaced therefrom and by which all of said springs are enclosed, substantially as shown and described and for the purposes set forth.

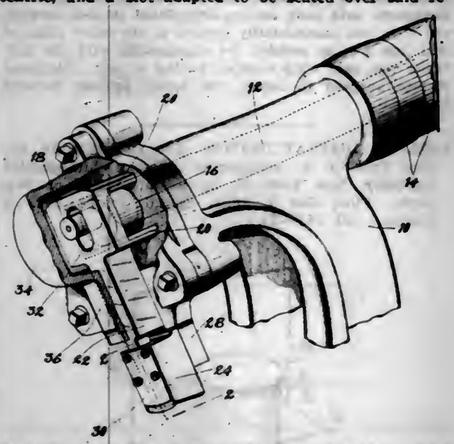
1,458,176. HAIR CURLER. PAUL GLAMZO, Brooklyn, N. Y., assignor of one-third to Frank Grimm, New York, N. Y., and one-third to Rudolf Rittmeyer, Brooklyn, N. Y. Filed Feb. 10, 1922. Serial No. 535,510. 2 Claims. (Cl. 132—41.)



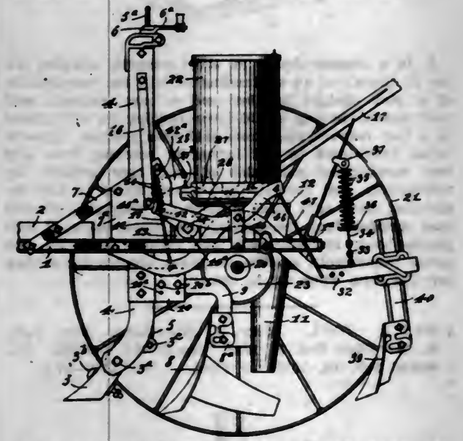
1. In a hair curler the combination of a pair of resilient arms connected by a loop, a hook end formed with the end of one of said arms, a pair of locking jaws with a locking opening formed with said hook end and a projecting latch formed with the other arm adapted to lock with said locking jaws and locking opening.

1,458,177. BEATING MACHINE. PERLEY R. GLASS, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 1, 1919. Serial No. 335,201. 6 Claims. (Cl. 12—42.)

1. A machine of the class described having, in combination, a reciprocating tool, a guide adjacent thereto, and means for reciprocating said tool comprising a rotatable shaft, an eccentric thereon, and a concentric portion of said shaft of a reduced diameter beyond said eccentric, said tool comprising a jaw to embrace the eccentric, and a slot adapted to be seated over said reduced portion of the shaft to secure rectilinear movement of the tool.



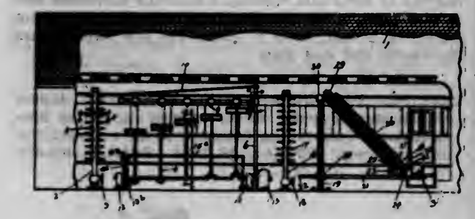
1,458,178. PLANTER. RICHARD H. GRIFFITH, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Filed Jan. 31, 1921. Serial No. 441,260. 4 Claims. (Cl. 111—61.)



4. In a planter, a main frame, a furrow opener provided with a vertically movable shank, a rock shaft provided with crank arms extending at the sides of said shank, links extending upwardly between said arms and said shanks, a spring suspended supplemental frame carried by said main frame and provided with upwardly extending links slidably and resiliently connected to said arms of said rock shaft for simultaneous normal operation with the latter and said furrow opener, a feed hopper and feed mechanism carried by said main frame, and crank and link means between said rock shaft and feed mechanism for throwing the latter into and out of operation with the movement of said furrow opener and furrow covering shovels into and out of their ground engaging positions, respectively.

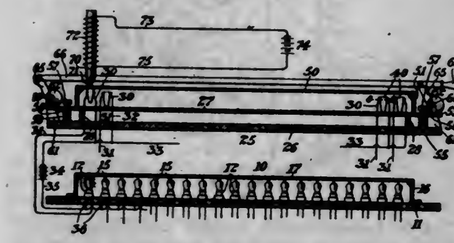
1,458,179. CAR-CLEANING APPARATUS. THURSTON M. HAMER, Montreal, Quebec, Canada. Filed July 25, 1921. Serial No. 487,378. 8 Claims. (Cl. 15—53.)

1. In a car cleaning apparatus, a track, a water pipe located adjacent to said track and provided with horizontally arranged nozzles, scrubbing brushes adapted for reciprocating movement adjacent to said water pipe, means for reciprocating said brushes, means for delivering water



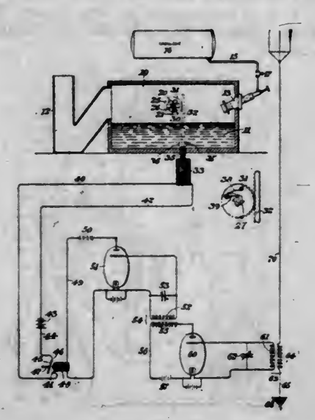
to said brushes, air spraying apparatus located adjacent to said scrubbing members and a polishing element.

1,458,180. ADVERTISING DEVICE. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 1, 1916, Serial No. 101,106. Renewed Oct. 5, 1921. Serial No. 505,565. 12 Claims. (Cl. 177—349.)



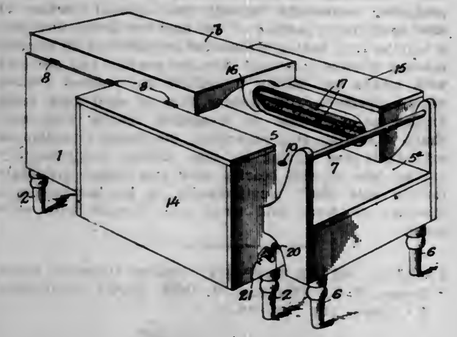
1. Electrical switching means comprising a plurality of magnetic switch members arranged to be reciprocated respectively in predetermined straight paths and separately movable from inoperative into operative positions, and means movable in a predetermined path for simultaneously moving a plurality of said switch members members from operative into inoperative positions.

1,458,181. SMOKE PRODUCER. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Oct. 17, 1917, Serial No. 197,125. Renewed Oct. 25, 1921. Serial No. 510,288. 7 Claims. (Cl. 158—91.)



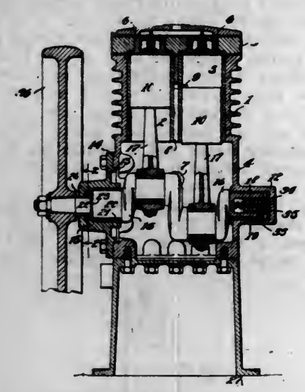
1. In a smoke producer, the combination with a combustion chamber provided with an opening, of means responsive to radiant energy for controlling the effective area of said opening.

1,458,182. ELECTROTHERMAL BATH CABINET. MARIE F. HASEMEIER, Woodward, Okla. Filed Jan. 25, 1922. Serial No. 531,617. 6 Claims. (Cl. 174—177.)



1. A therapeutic bath cabinet of the character described comprising a horizontally extending body portion having an entrance opening at one end, a table upon which the patient may lie slidably extending through said entrance opening into said cabinet and dividing the cabinet into upper and lower chambers, a heater disposed in said lower chamber to be adjustable along the length of said chamber, said table having a plurality of openings therein through which the heat may pass upwardly into said upper chamber and around the patient on the table.

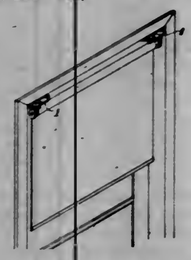
1,458,183. SHAFT SEAL FOR COMPRESSORS. FRED J. HEIDEMAN, Detroit, Mich., assignor to Kelvinator Corporation, Wilmington, Del., a Corporation of Delaware. Filed Sept. 6, 1918. Serial No. 252,819. 2 Claims. (Cl. 286—7.)



1. In a compressor, a crank case one of whose walls is formed with an aperture and the opposite wall with a recess in line with said aperture, said aperture being formed with a bearing portion, a threaded portion, and an inwardly facing seating portion, a bearing ring screwed into said threaded portion from within and provided with means for seating it against said seating portion and having its inner face formed as a surface of revolution coaxial with said bearing portion, an operating shaft journaled in said bearing portion and having an extension projecting through said aperture, a sealing ring embracing said shaft and having its outer face complementary to said bearing ring, and spring means in said recess and operating against the opposite end of said shaft to force said rings together.

2. A refrigerating apparatus having a closed casing and a rotatable shaft journaled therein, one wall of said casing having an aperture which is reduced at its outer end, and said shaft having a reduced extension projection outwardly through the reduced portion of said aperture, a portion of the aperture being threaded, a bearing ring having a threaded exterior and an arcuate interior screwed into said threaded portion and provided with means for sealing it against the reduced portion of the aperture, the interior face of said ring being formed as a surface of revolution coaxial with said shaft, a sealing ring embracing the reduced portion of said shaft and having its face formed complementary to the face of said bearing ring and means yieldingly forcing said shaft longitudinally of its bearing in a direction to force said rings into contact with each other.

1,458,184. SHADE SUPPORT. ERNEST HEITMAN, North Bergen, N. J. Filed Sept. 1, 1920. Serial No. 407,543. 3 Claims. (Cl. 156—24.)



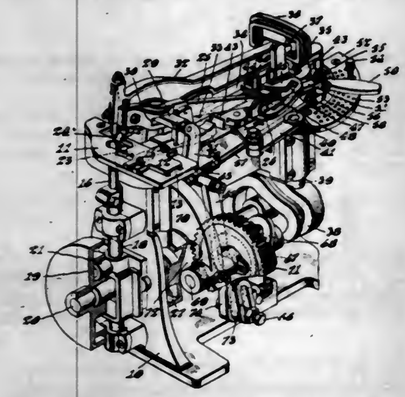
2. A shade support comprising in combination a bracket-guide consisting of a rod bent in the form of a closed frame with parallel sides and having its ends turned at substantially right angles to the parallel sides, a base-plate attached to the ends of said bracket-guide, said base-plate being provided with perforations adapted to receive suitable means for securing it to a window frame, a one-piece adjustable bracket formed by having one end portion engage the sides of said bracket-guide, the remaining portion being bent upwardly through said sides then downwardly parallel with the end portion and then downwardly through said sides at right angles to said end portion, said bracket being provided with tightening means and a perforation in its right angled portion adapted to receive the pintle of a shade.

1,458,185. GLOVE FORM. JAMES R. HEMPHILL, Akron, Ohio, assignor to The Colonial Sign and Insulator Company, a Corporation of Ohio. Filed Feb. 28, 1921. Serial No. 448,566. 9 Claims. (Cl. 18—41.)



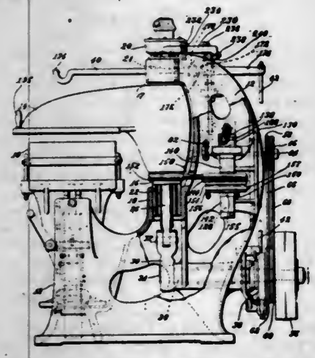
7. In a device of the class described, in combination a hollow glove form having an end wall at the arm end thereof, said end wall provided with an elongated opening, a plate adapted to register in said opening and be positioned transversely thereof within the form, a handle adapted to cover said opening, a centrally positioned hole in said plate, a similar hole in said handle and means insertable in said holes to clamp the end wall between the handle and said plate.

1,458,186. FASTENER-SETTING MACHINE. ALBERT E. HUDSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 16, 1920. Serial No. 403,674. 17 Claims. (Cl. 218—15.)



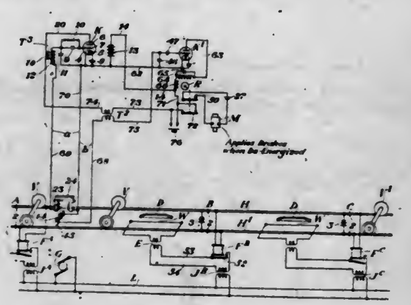
15. A fastener-setting machine comprising fastener-setting mechanism, regulatable work-feeding mechanism, automatic mechanism constructed and arranged to regulate the feeding mechanism so as to produce two lengths of feeding steps alternately, regulatable mechanism for punching a hole in the work to receive the fastener, and means connecting said automatic regulating mechanism with said punching mechanism so that the latter will be automatically controlled to vary the spacing of the punched holes in accordance with the length of the feeding steps.

1,458,187. PRESS. ALBERT E. HUDSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 25, 1921. Serial No. 447,650. 27 Claims. (Cl. 164—23.)



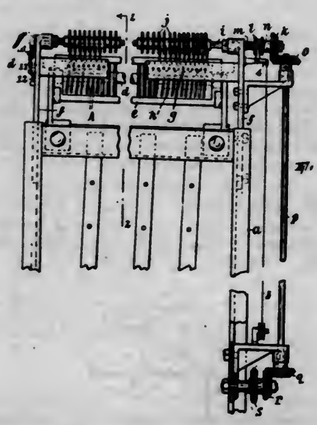
1. In a machine of the class described, a work supporting bed and a presser member relatively movable toward and from each other in pressure applying operations, and a post for supporting the presser member for swinging movement laterally over the bed, the said post being integral with the presser member and having trunnions mounted in bearings on the frame of the machine.

1,458,188. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Nov. 25, 1918, Serial No. 263,969. Patent No. 1,377,187, dated May 3, 1921. Divided and this application filed Mar. 24, 1921. Serial No. 455,140. 8 Claims. (Cl. 246—63.)



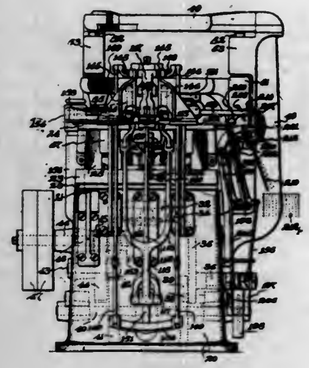
1. Railway traffic controlling apparatus comprising a vehicle, governing means thereon held in inactive condition when supplied with pulsating current of a given frequency, a source of pulsating current on said vehicle normally delivering current of said given frequency to said governing means, devices located at intervals in the trackway for varying the frequency of said source and thereby placing said vehicle governing means in active condition, and means located in the trackway and controlled by traffic conditions in advance for modifying the effect of said trackway devices on said governing means.

1,458,189. STOP-MOTION MECHANISM FOR WARPING MACHINES. ARTHUR C. MASON, Hawthorne, N. J. Filed Sept. 2, 1922. Serial No. 585,924. 6 Claims. (Cl. 28—50.)



1. In combination, with mechanism to advance a warp longitudinally and meanwhile maintain the same taut, a support, and detectors having free ends all projecting in substantially the same direction, said detectors being movable in the support back and forth laterally of the warp and respectively engaged with the threads of the warp, each detector being normally urged in one direction and held by the corresponding thread against such movement and the support affording clearance for shifting the constitutent threads of the warp in between and out from between the detectors.

1,458,190. MACHINE FOR OPERATING UPON SHOE PARTS. RALPH S. MEGATHLIN, West Somerville, and ALBERT E. HUDSON, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 12, 1920. Serial No. 350,771. 106 Claims. (Cl. 69—8.)



8. A machine of the character described, having, in combination, an endless series of duplicate blank-supporting tables, means for holding a blank in position above each table, means for actuating said series of tables to cause each to successively occupy different stations, and means for compressing each blank and measuring its thickness by successive operations at different stations.

16. A machine of the character described, having, in combination, a mold plate, means for supplying a blank thereto, means for transferring said plate and blank successively to a plurality of stations, and means for operating on the blank while held by the mold plate to compress it, measure its thickness, skive one side of it, and iron its other side.

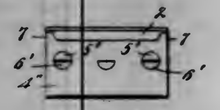
1,458,191. ARMORED TIRE. JOSEPH CLEMENT MIRE, Feitel, La. Filed May 8, 1922. Serial No. 559,341. 2 Claims. (Cl. 152—17.)



1. In an armored tire, a casing, a plurality of sections encasing the casing, each comprising a transversely curved metallic plate, said metallic plates overlapping each other, interlocking means for releasably securing said sections to each other in assembly, circumferentially extending flanges carried by said curved metallic plates and defin-

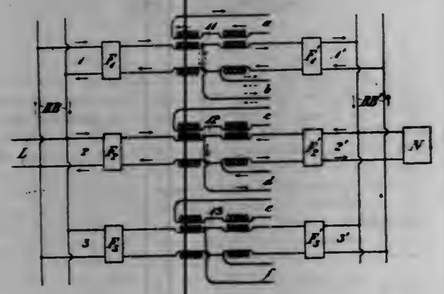
ing a circumferentially extending channel, the flanges of each section slidably overlapping the adjacent section and an endless band of cushioning material received in said channel.

1,458,192. REENFORCED BLADE. WILLIAM E. NICKERSON, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Jan. 9, 1919. Serial No. 270,347. 7 Claims. (Cl. 30—12.)



1. A reenforced blade comprising a folded backing and a cutting portion located in part between the folds of the backing and terminating at a distance from its folded edge, said backing being provided with tongues bent around the cutting portion at points close to the latter whereby said cutting portion and both of the overlying folds are secured together.

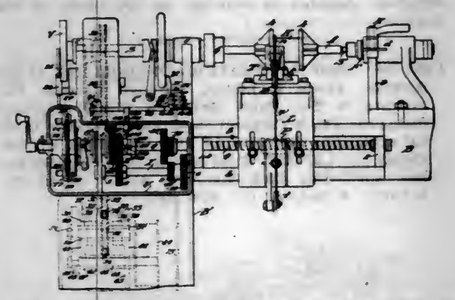
1,458,193. MULTIPLE BALANCING ARRANGEMENT FOR MULTIPLEX TRANSMISSION. HAROLD S. OSBORNE, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 13, 1919. Serial No. 323,504. Renewed Nov. 14, 1922. Serial No. 600,986. 9 Claims. (Cl. 178—44.)



9. In a signaling system, a transmission line, a balancing circuit therefor, a plurality of connecting circuits between said line and balancing circuit, a pair of signaling channels associated with each connecting circuit, one signaling channel of each pair being so associated with the connecting circuit as to be conjugate with respect to the other signaling channel of the pair, and the connecting circuits being so arranged with respect to the line and balancing circuit that a channel associated with one of said connecting circuits will be conjugate with respect to a channel similarly associated with another of said connecting circuits.

1,458,194. STARTING AND STOPPING MECHANISM FOR WINDING MACHINES. EDWARD F. PARKS and CARL A. BRINK, Providence, and GEORGE N. TAYLOR, East Providence, R. I., assignors, by mesne assignments, to The New England Trust Company, a Corporation of Massachusetts, trustee. Filed Mar. 12, 1919. Serial No. 282,349. 13 Claims. (Cl. 242—36.)

1. In a winding machine, the combination with a rotating winding-mandrel and a traverse-guide, of means to feed the guide longitudinally of the mandrel, and means to disconnect the guide from its feeding-means when the



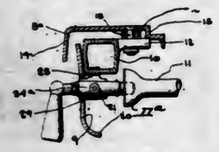
guide meets an obstruction which causes abnormal resistance to its feeding movement.

1,458,195. PORTABLE ELEVATOR. WILLIAM B. PAVEY, Chicago, Ill., assignor to Economy Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1922. Serial No. 540,957. 12 Claims. (Cl. 187—11.)



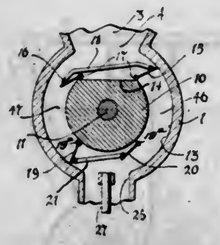
5. A raising and lowering machine comprising a stationary upright frame, an auxiliary frame and a load-carrying frame, said frames being mounted for relative up and down movement, a sheave carried at the upper end of the stationary frame, sheaves carried by the opposite ends of the auxiliary frame, and hoisting mechanism including a cable passing over said sheaves successively and connected with said load frame.

1,458,196. GAS RANGE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed July 5, 1921. Serial No. 482,388. 7 Claims. (Cl. 126—42.)



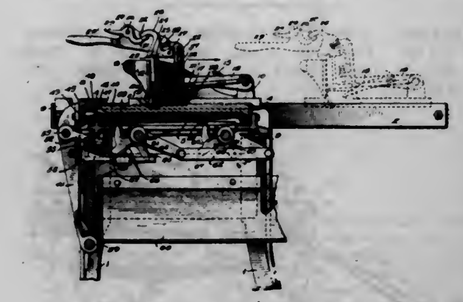
7. In a gas range, the combination of a top frame, a burner, means for supplying gas to the burner, including a valve, a handle for the valve, and a flame guard between the burner and said handle.

1,458,197. DOUGHNUT MACHINE. CHESTER A. PURDY, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,413. 6 Claims. (Cl. 107—14.)



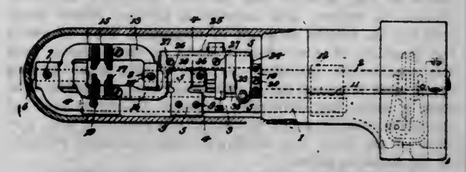
1. A device of the character described comprising a casing, a rotor mounted within the casing, a pair of valve members hinged to the rotor, a pair of valve members hinged to the casing adjacent the rotor, said casing being provided with an inlet port and a delivery port, and means for manually oscillating the rotor, whereby dough or the like introduced to said casing may be delivered through said delivery port.

1,458,198. TILE-MAKING MACHINE. ALFRED H. RUSH, Phoenixville, Pa. Filed Apr. 12, 1922. Serial No. 551,909. 18 Claims. (Cl. 25—42.)



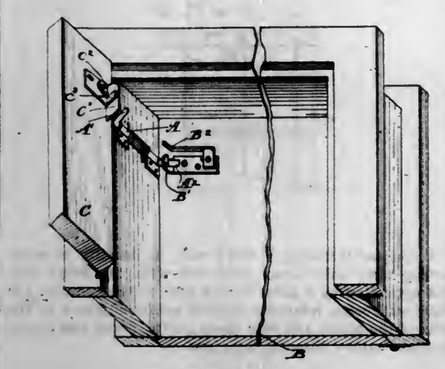
1. A tile making machine comprising a former having an open top, said former being adapted to receive material to form said tile, a cutter bar adapted to be reciprocated over said former to remove excess material therefrom, and means for locking said former during the formation of said tile.

1,458,199. FEEDING MECHANISM FOR SEWING MACHINES. DUDLEY S. SEYMOUR, Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 4, 1919. Serial No. 287,389. 7 Claims. (Cl. 112—209.)



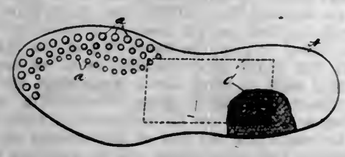
1. The combination of a projecting tubular work supporting arm and a feeding mechanism located within said arm, said feeding mechanism including a main feed dog and an auxiliary feed dog, means within the tubular work supporting arm for raising and lowering the feed dogs, and means for moving the feed dogs back and forth in a plane substantially at right angles to the longitudinal axis of the work supporting arm, said last-named means including devices whereby the auxiliary feed dog may be given a different length of movement from said main feed dog.

1,458,200. WALL RECEPTACLE FOR RECEIVING DELIVERIES. WILLIAM J. SLOAN, Cleveland, Ohio, assignor of one-half to Frank Paulin, Cleveland, Ohio. Filed Nov. 22, 1918. Serial No. 263,657. 1 Claim. (Cl. 232—41.)



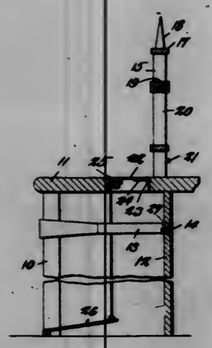
In a safety wall receptacle, a casing, outer and inner doors therefor, a keeper having a vertical opening and mounted upon said outer door, a pivoted guard adapted to fall over said vertical opening, a latch member pivoted upon one side wall of said casing and provided with a latch extremity adapted to engage with the vertical opening in said keeper when the outer door is closed and to pass horizontally under said guard, and an operating member for said latch member, said operating member pivotally secured upon the inner face of said inner door, said latch member provided with a lateral extension adapted to be engaged by said operating member when the inner door is shut and depress the same; said operating member constructed to pass by said lateral extension after depressing the same and a stop means on said inner door preventing said operating member from swinging on its pivot when the inner door is closed but releasing the same when the inner door is opened.

1,458,201. SHOE SOLE. JAMES H. STEDMAN, Braintree, Mass. Original application filed Apr. 24, 1919, Serial No. 292,417. Divided and this application filed Sept. 25, 1920. Serial No. 412,693. 5 Claims. (Cl. 36—56.)



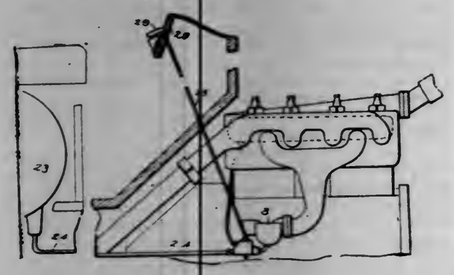
5. A golf shoe having an outer sole made of rubber compound, said sole having a smooth wearing surface and being provided with integral resilient hobs about its toe near its inner edge, whereby on turning the shoe on its inner edge as an axis the hobs will tend to adjust themselves to the unevenness of the ground and afford a firm purchase to the wearer of the shoe.

1,458,202. SAFETY BANK COUNTER. HIRAM STOUT, Newton, Kans. Filed Feb. 24, 1920, Serial No. 360,576. Renewed Feb. 20, 1923. 1 Claim. (Cl. 89—36.)



A counter including a front wall, a plurality of pipes having their outer ends connected with the front wall and extending to a point at the rear of the counter, the front wall being relatively thin at points adjacent to the ends of the pipes, and said pipes having flared inner ends to guide bullets through the pipes.

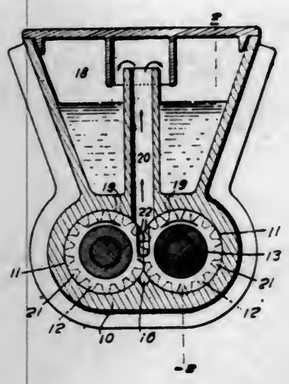
1,458,203. RESERVE FUEL SYSTEM FOR AUTOMOBILES. PERRY TANNER, Ashland, Ky. Filed May 16, 1922. Serial No. 561,200. 2 Claims. (Cl. 158—46.5.)



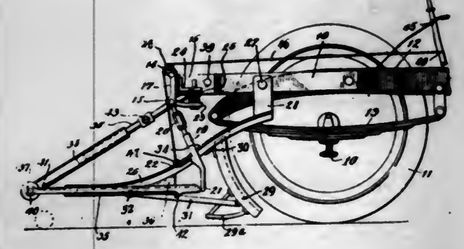
1. In combination with a motor vehicle having a motor, a carbureter, a main fuel supply tank, a main fuel supply pipe leading from the main fuel supply tank, an auxiliary fuel supply tank mounted on the motor and above the horizontal plane of the carbureter, means for spacing the auxiliary fuel supply tank from the motor to form an air passage between said tank and the motor to cool the liquid fuel in the tank, an auxiliary fuel supply pipe extending from the auxiliary fuel supply tank, a valve casing with which the main and auxiliary fuel supply pipes communicate, a pipe connecting said casing and the carbureter, a valve in the casing for controlling the flow of fuel through the main and auxiliary fuel supply pipes, and an operating handle extending from the valve to within reach of the operator of the vehicle.

1,458,204. PUMP. RAYMOND W. TIBBETTS, Roxbury, Mass. Filed Nov. 2, 1920, Serial No. 421,282. Renewed Apr. 17, 1923. 3 Claims. (Cl. 30—30.)

1. A pump having rotors consisting of intermeshing herring bone gears and passages at the central part of the gears for the escape of liquid from the pocket formed by the intermeshing of the gear teeth, said passages opening into the spaces between the gear teeth and an outlet pipe to which liquid is directly delivered, said passages being merely relief ports.



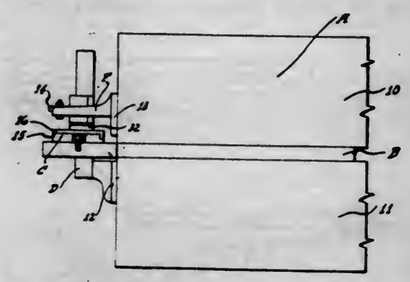
1,458,205. SAFETY ATTACHMENT FOR AUTOMOBILES. JULIUS M. ALTER, Brooklyn, N. Y. Filed Feb. 20, 1922. Serial No. 537,855. 3 Claims. (Cl. 180—83.)



1. In a safety attachment as set forth, the combination with a frame and a bumper bar carried thereby, of a receiver pivoted to the frame and extending downward and forward therefrom to a position close above the ground, means suspended from the pumper bar for holding the receiver normally elevated, and trip mechanism in advance of the receiver and movable rearward relatively thereto to release said suspended holding means when striking an article disposed in alignment with or above the position of the receiver close to the ground, said trip mechanism including a pair of side arms having upper ends mounted for pivotal movement around a fixed axis, a cross bar extending between the front ends of the arms, and a brace extending between the mid portions of the arms and serving to hold the pivot portions of the arms in place.

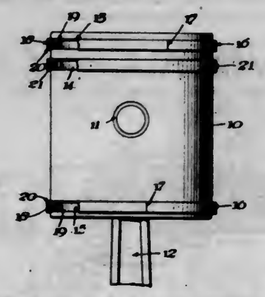
1,458,206. GUIDE FOR MATCH PLATES. WILLIAM BOCK, Racine, Wis. Filed June 20, 1921. Serial No. 479,025. 5 Claims. (Cl. 22—10.)

1. The combination with a flask including a cope portion, a drag portion, and a match plate interposed therebetween, a flask pin carried by one of said portions, a socket carried by the other portion for the flask pin, a



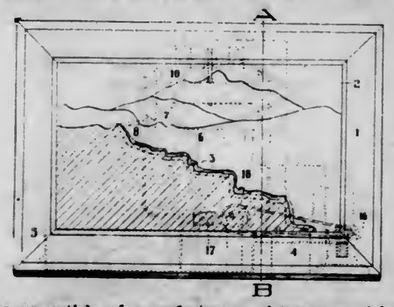
casing carried by the match plate, oppositely disposed slidable tension plates carried by the casing for engaging the opposite sides of the flask pin.

1,458,207. PISTON RING. JOHN HERBERT BRENNER, Douglas, Wyo. Filed June 26, 1920. Serial No. 391,877. 7 Claims. (Cl. 74—109.)



1. The combination with a piston provided with a ring groove having imperforate walls; of a piston ring of the split expansion type comprising a concentric resilient ring body having a series of spaced recesses therein diagonally at one corner and adjacent the peripheral faces of the ring and piston for cooperation with the wall of the cylinder bore whereby to cause said ring to seat inwardly and outwardly under suction and compression respectively.

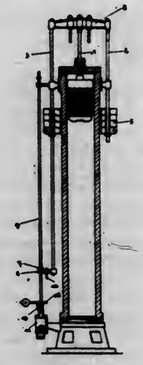
1,458,208. TOY OR ADVERTISING DEVICE. HENRY ALBERT HOUGHTON, Douglas, Isle of Man. Filed Sept. 19, 1922. Serial No. 589,140. 1 Claim. (Cl. 40—126.)



As an article of manufacture a picture comprising a flat backing, a frame supporting said backing, a device in bas-relief covering a portion of said backing, a receptacle behind said backing communicating with a perforation therein adjacent the apex of said portion in bas-relief, a

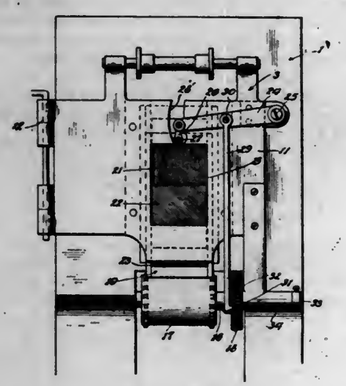
receptacle collecting water at the bottom of said backing, a pump, means connecting said pump with said receptacle, a main reservoir supported on said frame at a point above the perforation in the backing, a float in said main reservoir, means to drive the pump and means operated by said float to cause the operation of the motor driving the pump whenever the water level in the main reservoir falls below a predetermined degree and means to interrupt the driving of said pump when the water level has reached a predetermined degree in said reservoir.

1,458,209. AIR ACCUMULATOR. FRITZ KEMPTER, Stuttgart, Germany. Filed Oct. 8, 1920. Serial No. 415,090. 3 Claims. (Cl. 103—42.)



1. In a device of the kind described in combination, a cylinder closed at both ends, a rodless piston freely movable within said cylinder, means comprising a valve for introducing a pressure liquid at one end of said cylinder and a rod operatively connected with said valve projecting into said cylinder so as to be acted upon by said piston at one end of its stroke.

1,458,210. MOTION-PICTURE-PROJECTION APPARATUS. THOMAS A. KILLMAN, Nashville, Tenn. Filed Apr. 18, 1922. Serial No. 554,668. 6 Claims. (Cl. 88—16.4.)



1. In apparatus for projecting motion pictures in color from film having alternate picture areas possessing complementary color value, a film gate having an aperture to accommodate two picture areas of the film, means for shifting the film intermittently the distance of one picture area, a color screen supported in operative relation to said aperture and having spaced light ray transmitting

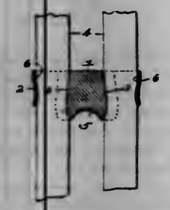
areas of the same primary color and an intermittent light ray transmitting area of a complementary primary color, and means operable to shift the screen to successively bring the intermediate area and alternate ones of the first mentioned areas thereof simultaneously into operative relation to the aperture of the film gate.

1,458,211. PHOTOGRAPHIC SHUTTER. EDWIN F. KINGSBURY, Rutherford, N. J. Filed Dec. 6, 1919. Serial No. 342,873. 8 Claims. (Cl. 95—57.)



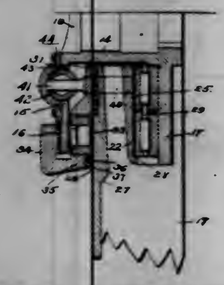
8. In combination with the curtain shutter sections of a photographic shutter, a flexible tape engaging at the front end the two free ends of said shutter sections to keep them in spaced relationship, attaching means for the remaining end of said flexible tape, additional means for providing a loop between the said ends of the tape, and means for increasing and decreasing the size of said loop.

1,458,212. AIRCRAFT LANDING-GEAR-CORD CLAMP. SIDNEY P. LYON, Dayton, Ohio. Filed Jan. 11, 1922. Serial No. 528,516. 1 Claim. (Cl. 24—136.)



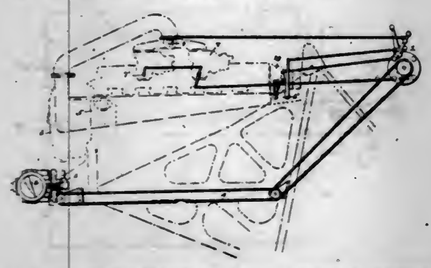
A landing gear cord clamp for aircraft, comprising a wedging block insertable between opposing portions of the landing gear cord, and having transversely concave and longitudinally convex wedging faces, and a ferrule adapted to embrace such portions of the cord and clamp the same against said block, said ferrule having transversely concave and longitudinally convex wedging faces.

1,458,213. PROPELLER FOR AIRCRAFT. ERNEST G. MCCAULEY, Dayton, Ohio. Filed Aug. 13, 1921. Serial No. 491,973. 9 Claims. (Cl. 170—163.)



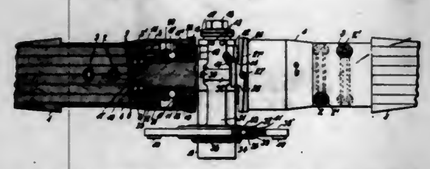
1. In a propeller, the combination with a blade thereof having a counterbored portion, of a ferrule, and an expanding ring adapted to be inserted in said counterbored portion for bending and compressing the material of the propeller blade against said ferrule.

1,458,214. SYNCHRONIZING CONTROL MECHANISM FOR REVERSIBLE-PITCH PROPELLERS. ERNEST G. MCCAULEY, Dayton, Ohio. Filed Aug. 30, 1921. Serial No. 497,056. 7 Claims. (Cl. 244—25.)



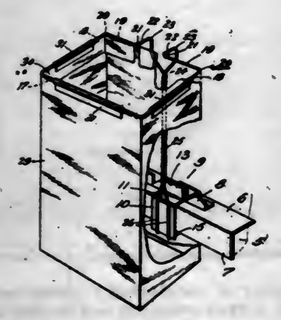
1. A control mechanism for aircraft having a reversible propeller, comprising, in combination, a rotatable shaft, a cam disc rotatably mounted on said shaft, gearing for operating said cam disc from the shaft, a throttle lever, devices adapted to be actuated by the cam of said cam disc for automatically positioning the throttle valve, and means connected to said shaft for changing the angularity of the propeller blades simultaneously with the automatic movements of the throttle valve.

1,458,215. PROPELLER REVERSIBLE BLADE AND WOOD-RETAINING FERRULE. ERNEST G. MCCAULEY, Dayton, Ohio. Filed May 13, 1922. Serial No. 560,752. 9 Claims. (Cl. 170—163.)



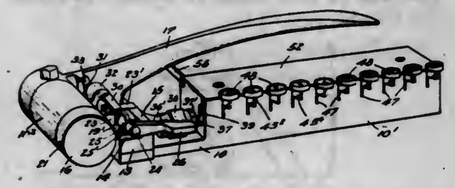
1. In a reversible propeller having a plurality of blades and ferrules, means for retaining each of said blades within its ferrule, said means comprising a screw-threaded expanding ring having a blunt edge adapted to engage a counterbored concentric circular groove in the base of said blade, said blade base being further provided with transverse slots for the purpose of insuring evenly distributed expansion of the blade base caused by the expanding action of the applied expanding ring.

1,458,216. BAG-HOLDING DEVICE. HARRY H. WOOD, Seattle, Wash., assignor of one-half to Don H. Palmer, Seattle, Wash. Filed Oct. 25, 1921. Serial No. 510,404. 4 Claims. (Cl. 83—26.)



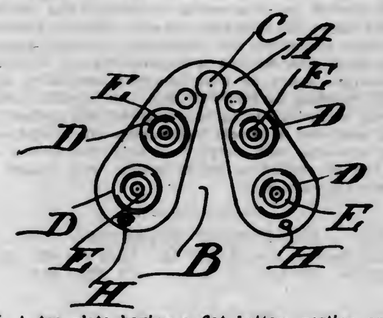
1. In a device of the character described, the combination with a support, of an attachment adapted to engage over the top of said support and having a socket, a bag holder made of a single piece of wire bent to form a substantially horizontal frame element and having a pair of rearwardly extending arm elements disposed at a lower elevation than said frame element and engageable in the socket of said attachment.

1,458,217. KEY-CUTTING MACHINE. FRANK ELLISON BEST, Seattle, Wash., assignor to Frank E. Best, Inc., Seattle, Wash., a Corporation of Washington. Filed Jan. 18, 1921. Serial No. 438,105. 21 Claims. (Cl. 164—42.)



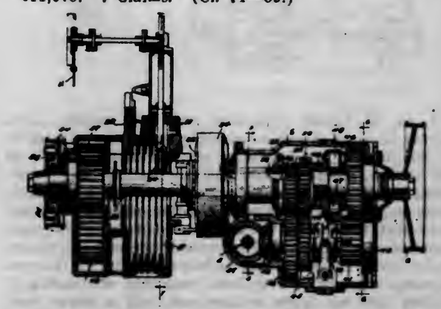
1. In a key cutting machine, the combination with means for setting a blank to have notches cut therein to predetermined depths, and finger actuated keys controlling said means, of mechanism for spacing the notches automatically.

1,458,218. SOLE TIP. ERNEST J. BRISBEN, East Cleveland, Ohio. Filed Sept. 10, 1921. Serial No. 499,611. 5 Claims. (Cl. 36—73.)



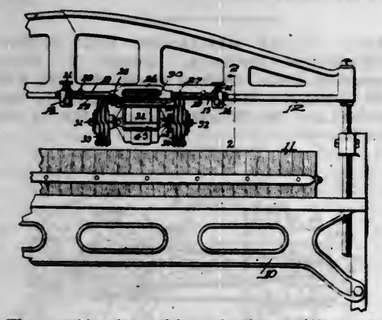
5. A toe plate having a flat bottom portion and an upper plate secured at its rear end thereto, said toe plate provided with a vertical opening and a vertical plug secured to the lower side of said upper plate and extending through said opening.

1,458,219. BALLOON WINDLASS. WARREN D. BURTON, Omaha, Nebr. Filed Sept. 18, 1920. Serial No. 411,075. 7 Claims. (Cl. 74—59.)



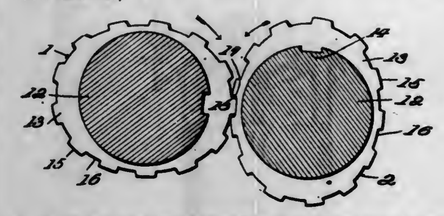
1. In a changeable speed power transmission gearing, a main transmission shaft, a friction clutch member rotating therewith, a sleeve surrounding said shaft and free to rotate thereon, a friction clutch member on said sleeve adapted to engage the first named clutch member, a countershaft, gears on said sleeve and countershaft for transmitting motion from the sleeve to the countershaft, a ratchet wheel whose axis is in alinement with the axis of the main transmission shaft, a gear on and concentric with said ratchet wheel, a gear on the countershaft arranged to drive the gear on the ratchet wheel, and a pawl carried by the main transmission shaft adapted to cooperate with said ratchet wheel.

1,458,220. BLOCK PLANER. ORNAN S. COOK and HENRY A. GALE, Fitchburg, Mass. Filed Nov. 21, 1921. Serial No. 516,561. 4 Claims. (Cl. 164—34.)



1. The combination with a leather cutting machine having a block for supporting leather with the dies on it and a beam at the top parallel with the block for engaging the tops of the cutting dies, of a frame adapted to be mounted between the beam and the block in any desired position along the beam, a carriage slidable on said frame longitudinally of the beam, a slide transversely movable on the carriage across the machine and over the block, and a rotary cutting tool carried by the slide and movable therewith for dressing off the top of the block.

1,458,221. CORN-HUSKING MACHINE. RALPH COVER, Baltimore, Md., assignor to The United Machinery Company, Westminster, Md., a Corporation of Maryland. Filed June 3, 1919, Serial No. 301,506. Renewed Sept. 17, 1921. Serial No. 501,450. 13 Claims. (Cl. 130—5.)

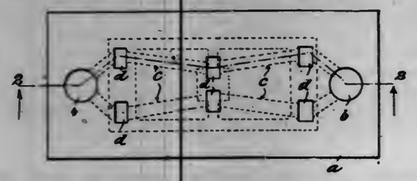


1. A husking machine including in combination a pair of parallel longitudinally extending husking rolls along which the ears are conveyed, said rolls being non-concentric and disposed so that their cooperating surfaces are substantially of uniform distance apart, said rolls having their surfaces provided with intermeshing projections disposed so as to grip the husk and forcibly strip the same from the ears.

1,458,222. METHOD OF GATING CASTINGS. JAMES F. DIETER, Highland Park, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 18, 1921. Serial No. 485,606. 1 Claim. (Cl. 22—134.)

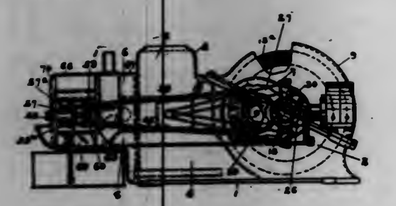
The herein described method of casting comprising forming a riser in communication with the runner, and

between the pouring basin and the mould proper, whereby the riser fills with the last poured metal, which metal



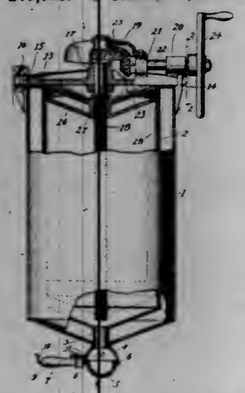
feeds into, and exerts pressure on, the metal in the mould during the cooling thereof.

1,458,223. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ALBERT Y. EDWARDS, Springfield, Ohio. Original application filed Feb. 7, 1918, Serial No. 215,702. Divided and this application filed Apr. 10, 1920. Serial No. 374,818. 3 Claims. (Cl. 123—90.)



1. In a gas engine, the combination of a pair of cylinders, a fly wheel located on a line extending between the cylinders, a crank shaft and casing located at one end of said cylinders, valves at the opposite end of said cylinders, valve connections, a cam shaft casing detachably secured to the crank casing at one side thereof, and a cam for operating the valve connections within said cam shaft casing.

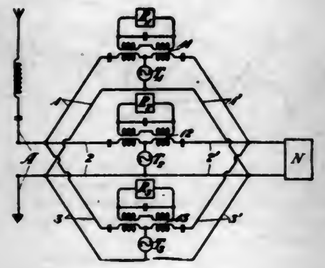
1,458,224. ICE-CREAM-DISPENSING DEVICE. IRA STRAUSS EAMAN, Cincinnati, Ohio. Filed Feb. 28, 1919. Serial No. 279,756. 4 Claims. (Cl. 107—48.)



1. A dispensing device for use with ice cream comprising a container, a vacuum shell vessel, a member mounted in the vessel adapted to advance through the container, and a delivery element on the vessel, said advancing member likewise having a vacuum shell.

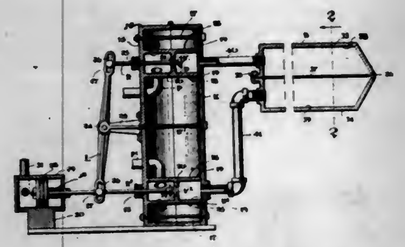
4. A method of handling ice cream which consists in freezing the ice cream in a container with an axial hole formed in the ice cream mass, placing the container in a vacuum shell vessel, causing a follower to pass through the container when it is within the vessel, and utilizing the hole in the ice cream mass for clearance of a nonreciprocating element upon which the follower moves.

1,458,225. MULTIPLE BALANCING ARRANGEMENT FOR MULTIPLEX TRANSMISSION. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 29, 1919. Serial No. 320,661. 15 Claims. (Cl. 179—4.)



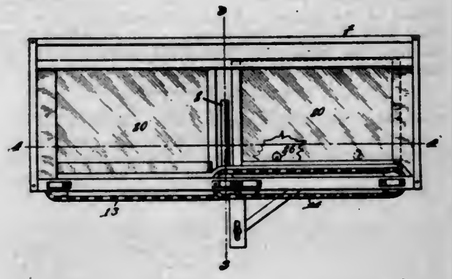
1. In a multiplex signaling system, a transmission circuit, a balancing means therefor, a plurality of receiving devices and a plurality of transmitting devices, selective means discriminative between different alternating current frequencies for maintaining frequency separation between different sets of transmitters and receivers, and separate means for simultaneously associating each of said receiving devices with said transmission circuit and said balancing means, said transmitting devices being so associated with said transmission circuit and said balancing means that energy from said transmitting devices will be applied to points neutral with respect to said receiving devices.

1,458,226. OIL-BURNING APPARATUS. WALTER EMILE FISHER, New Iberia, La. Filed Oct. 22, 1921. Serial No. 509,515. 3 Claims. (Cl. 758—45.5.)



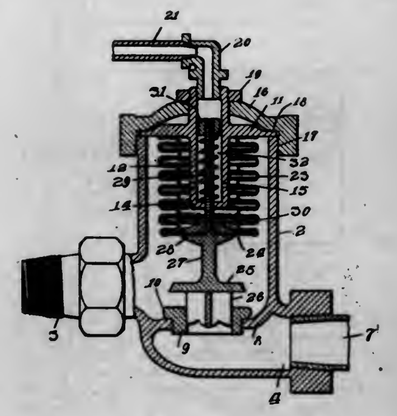
1. An oil burner comprising two half sections, each having an inclined end terminating at its free edge short of the plane of the free edges of the remaining walls of the section, means whereby the two sections may be secured in edge to edge superposed relation, a partition plate clamped between the confronting edges of said sections and terminating at its one end short of the confronting edges of the inclined ends of the sections, whereby an outlet for the casing is provided between the confronting edges of the inclined ends and the casing is divided into an upper compartment and a lower compartment, said compartments having restricted communication with each other at the juncture of each with the outlet port.

1,458,227. CHANGEABLE EXHIBITOR. JOHN P. FREEMON and EURA P. MCFADDEN, Ann Arbor, Mich. Filed Sept. 27, 1922. Serial No. 590,888. 4 Claims. (Cl. 40—79.)



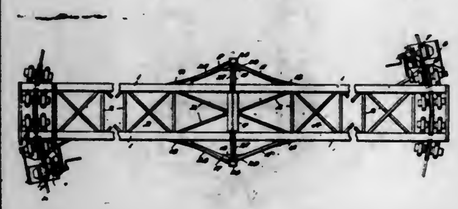
1. In a changeable exhibitor, the combination of a main frame adapted to contain two alined packs of display cards arranged in close proximity with a transverse space between them, a motor, endless chains actuated by said motor and having card engaging means individual to the front and rear of the packs and adapted to successively shift a card from the front of one pack to the front of the other and from the rear of one to the rear of the other whereby a gradual pull of the motor will be given, thereby reducing friction to the minimum and avoiding interference with the display of the signs.

1,458,228. VALVE. SIGVORT O. HAGEN, Minneapolis, Minn. Filed May 1, 1920. Serial No. 378,289. 4 Claims. (Cl. 137—130.)



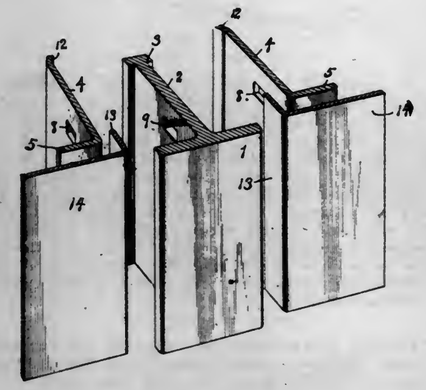
1. In a device of the class described, a casing having a seat; an expansion member carried by the casing; a valve forced by the expansion of said member to cooperate with the seat, the valve having a stem; a tubular guide carried by the casing, the stem being slidable therein, the guide communicating with the expansion member; spring means in the guide and cooperating with the stem to retract the valve from the seat and to compress the expansion member; and a fluid pressure line communicating with the guide.

1,458,229. TURNTABLE. MEIER GEORGE HILPERT, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1921. Serial No. 510,428. 20 Claims. (Cl. 104—35.)



1. A turntable of the multiple-span type, comprising alined spans, a cross girder between the ends of said spans, projecting on both sides thereof and flexibly connected therewith about an axis transverse of said spans, said spans each being provided with an inside lateral bracing system connected with said cross girder in a plane including said axis, an outside lateral bracing system connected with each of the projecting ends of said cross girder in a plane containing said axis and providing, in effect, a continuous horizontal wide truss system extending on both sides and along the central portion of the table.

1,458,230. BUILDING CONSTRUCTION. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 15, 1920. Serial No. 381,544. 5 Claims. (Cl. 189—2.)

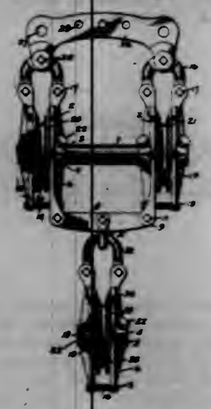


1. A metal building construction comprising a column and two alined sheet metal panels, the vertical edges of the panels being bent inwardly to constitute parallel flanges, the column consisting of a central T bar against whose web and flanges the flanges and main portions of the panels are fitted, said column further consisting of a pair of angle bars and bolts to press the edges of the panel against the webs of said T bar.

1,458,231. LEAD BLOCK. DAVENPORT LAWSON, Elk, Calif., assignor to Goodyear Redwood Co., Elk, Calif., a Corporation of Maine. Filed Jan. 27, 1921. Serial No. 440,295. 2 Claims. (Cl. 254—192.)

1. A block comprising twin frames, a sheave in each

of said frames, means connecting said frames for holding them in fixed relation, a single frame pivotally sus-



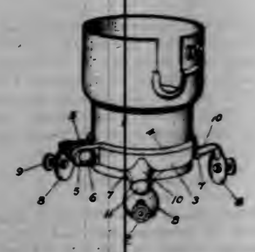
pended from said twin frames, and a sheave in said single frame.

1,458,232. SHADE AND CURTAIN BRACKET. CARL A. MAIENSCHEIN, Evansville, Ind. Filed June 20, 1921. Serial No. 478,973. 1 Claim. (Cl. 156—24.)



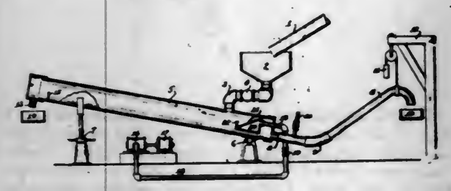
A bracket of the character described comprising a substantially Z-shaped supporting arm, one end portion of said arm being secured to a support, the opposite end portion having a recess extending laterally thereof, and a curtain holding member consisting of a length of material having one end portion thereof pivoted to the arm adjacent the first mentioned end portion of the arm and arranged for vertical movement relative to the arm, said holding member extending laterally of the second mentioned end portion of the arm and through the recess, said second mentioned end portion of the arm limiting movement of the curtain holding member in one direction.

1,458,233. SHADE HOLDER. CHARLES STANLEY MALLETT, Toronto, Ontario, Canada. Filed Nov. 22, 1921. Serial No. 517,039. 1 Claim. (Cl. 240—128.)



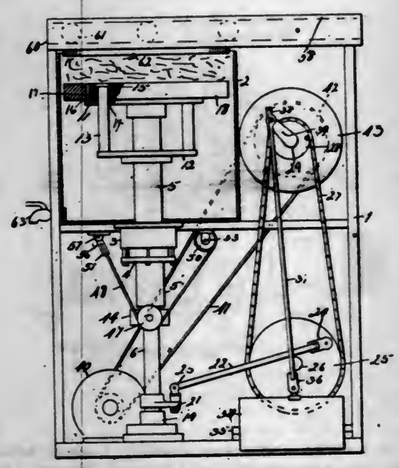
In an electric lamp shade holder, the combination with an electric lamp socket and lamp shade, of an annular ring, means for detachably securing the ring to the socket, radially extending arms on the annular ring provided with depending portions, means for detachably securing the shade to the depending portions, longitudinally extending convexed reinforcing ribs formed on the horizontal portions of the arms and convexed humps formed at the junction of the horizontal portion of the arms with the depending portions and straddling their junction, the reinforcing ribs being contiguous to the reinforcing humps.

1,458,234. SEPARATING SOLIDS FROM LIQUIDS. HAROLD C. MILLER, Bakersfield, Calif., assignor to Standard Oil Company, San Francisco, Calif., a Corporation of California. Filed Nov. 6, 1922. Serial No. 599,450. 2 Claims. (Cl. 210—51.)



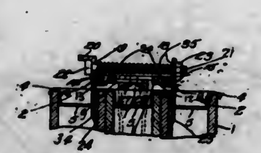
1. An apparatus for separating solids from liquids comprising an inclined separating pipe-like vessel having an outlet at each end; means for continuously supplying said vessel to its capacity with the aggregate to be separated; means for controlling the discharge from the lower end of said vessel; and means for introducing a plurality of jets of air into the lower end of said vessel.

1,458,235. WASHING MACHINE. VITO MONTALTO, Allentown, Pa. Continuation in part of application filed Dec. 18, 1920. Serial No. 431,575. 5 Claims. (Cl. 68—37.)



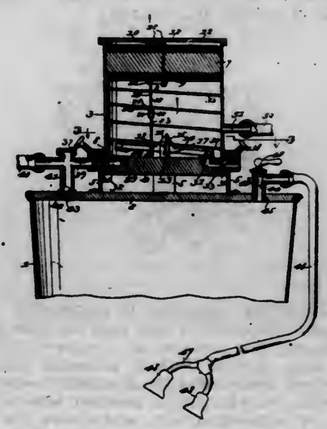
1. In a washing machine, a stationary receptacle, a bed plate, a hollow shaft supporting said bed plate, a block suspended beneath the lower end of the hollow shaft, two pulleys journalled to said block, a cable running over said pulleys and means for taking up and letting out said cable whereby the block will be raised and lowered to raise and lower the hollow shaft.

1,458,236. PAPER-CORE BUNDLING DEVICE. HAROLD ARTHUR MOREY and CHRISTOPHER PHILIP ROBERTS WARREN, Sault Ste. Marie, Ontario, Canada. Filed Mar. 23, 1922. Serial No. 546,200. 5 Claims. (Cl. 206—46.)



1. A paper core bundling device comprising end plates provided with depressed portions fitting the hollow cores, means operated from the exterior of the plate and extending through the depressed portions for engaging the interior peripheries of the hollow cores, and holding locking means for carrying such engaging means simultaneously in and out of the engaging position.

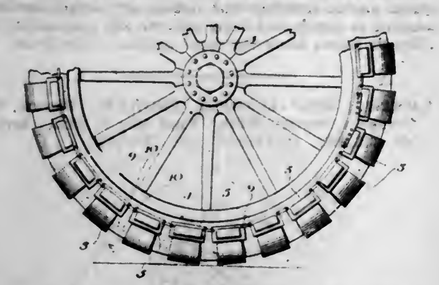
1,458,237. MILKING MACHINE. WILLIAM N. MUELLER, Fredericksburg, Iowa. Filed Apr. 22, 1922. Serial No. 555,986. 11 Claims. (Cl. 31—08.)



1. In a milking apparatus, a receptacle having a teat engaging means, means for creating a vacuum in said receptacle and the teat engaging means, means actuated by said vacuum creating means for retaining said vacuum, and pneumatic means operable upon the retaining means for terminating the period of vacuum created in said receptacle and the teat engaging means, and means for controlling the escape of air from the pneumatic means.

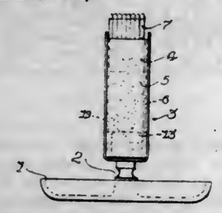
1,458,238. TIRE PROTECTOR AND ANTISKIDDING DEVICE. HERMAN A. MYER, Yakima, Wash. Filed Jan. 8, 1923. Serial No. 611,321. 2 Claims. (Cl. 152—16.)

2. In a tire protector and anti-skidding device comprising a plurality of tire sections placed in a series around a tire, plates provided with apertures for receiving the beaded portions of the tire sections and securing the latter to a tire, a portion of the plate which is removed to form the aperture being bent downwardly to



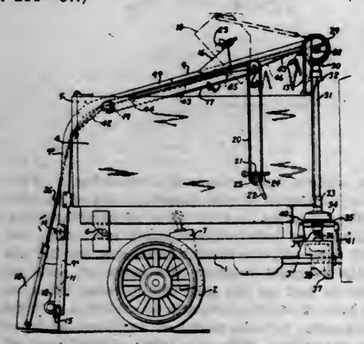
provide a rounded edge along the side of said aperture which engages under the head of the tire section.

1,458,239. SAFETY-MATCH-BOX HOLDER. JOHN A. OBERMAIER, Chicago, Ill., assignor to Wilmort Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1919. Serial No. 316,299. 1 Claim. (Cl. 206—31.)



A match box holder comprising, in combination, a single piece of metal bent to a U-shape with a bight equal to the depth of a match box, and arms of a width substantially equal to the width of a match box, the length of said arms being somewhat greater than the length of a match box, and integral projections struck up out of said bight to a distance greater than the difference between the length of a match box and the length of said side portions, whereby said integral projections abut the match box itself to hold it projecting above said side portions, and permit the cover to slide below said side portions.

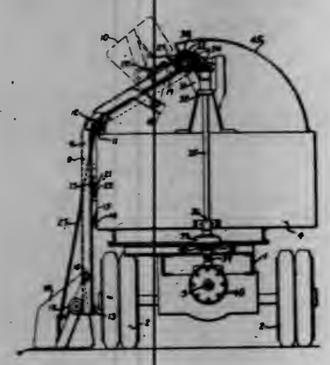
1,458,240. ASH COLLECTOR OR LIKE SELF-LOADING VEHICLE. GEORGE W. OTTERSON, Seattle, Wash. Filed May 5, 1923. Serial No. 636,865. 7 Claims. (Cl. 214—67.)



1. A self-loading vehicle having a cargo body, a track extending upward at the rear end of the body and

thence forward lengthwise over the top of the body, a car and means for drawing the same up and along the track, and a dumping spur having an inclined surface adapted to engage and dump said car and positionable at different points along the upper portion of the track.

1,458,241. SELF-LOADING VEHICLE. GEORGE W. OTTERSON, Seattle, Wash. Filed May 5, 1923. Serial No. 636,866. 12 Claims. (Cl. 214—67.)



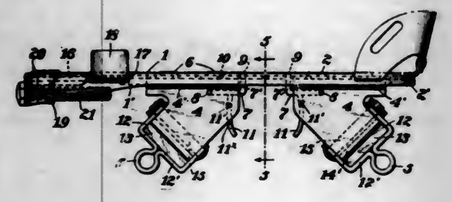
1. A self-loading vehicle having a chassis, a power shaft therein, a cargo body tiltably mounted on the chassis, a loader on the body, mechanism for driving the loader from said power shaft comprising cooperative separable driving and driven members connected respectively with said shaft and with the tiltable body, and means for separating and reconnecting said members when the tiltable body is in normal position.

1,458,242. VEHICLE TOP. EDGAR A. RATHBUN, Pontiac, Mich., assignor to American Forging and Socket Co., Pontiac, Mich., a Corporation of Michigan. Filed Nov. 26, 1920. Serial No. 426,482. 4 Claims. (Cl. 296—116.)



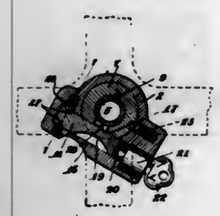
1. A vehicle top framework comprising a front bow, pieces of hardware carried thereby, a set of parallel arms pivotally connected to each piece of hardware, the inner arm of each set being slotted, a lug carried by the outer arm of each set, an intermediate bow having its ends pivotally mounted between the arms of each set and adapted to rest on the lugs of the outer arms, an outrigger bow pivotally connected to said sets of arms, and means carried by said pieces of hardware and having a sliding connection with the inner slotted arm of each set of arms, and adapted to support the sets of arms relative to said front bow.

1,458,243. ROLLER SKATE. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed June 9, 1921. Serial No. 476,258. 16 Claims. (Cl. 46—51.)



1. In combination in a skate a sectional foot plate, a connecting member having a plurality of spaced apart openings and slidable on the lower face of the foot plate, locking means to engage in any one of the openings of the connecting member and movable to and from the same, and a clamping member for holding the locking means in place and a frame part connected to the sectional plate and on which said locking means and clamping member are mounted.

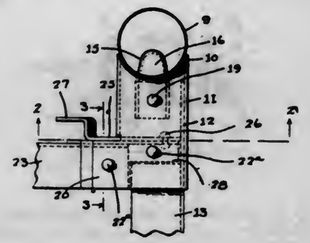
1,458,244. AUTOMOBILE LOCK. HERBERT REEVES and JACOB E. CAIN, Columbus, Ohio, assignors of one-half to Samuel D. Hearing and Hershel W. Unkel, both of Zanesville, Ohio. Filed Nov. 26, 1919. Serial No. 340,732. 3 Claims. (Cl. 70—129.)



2. A vehicle lock comprising, in combination, an annular member adapted to be fixed upon the upper portion of the steering post structure of a motor vehicle, said member being provided with a tangential groove, a steering wheel axially rotatable about said member, said wheel having its hub portion provided with a socket disposed for registration with said groove, the longitudinal axis of said socket being disposed at right angles to the major axis of the post structure, a cylindrical locking element extending longitudinally of said socket and mounted for rotation therein, said element being provided with a recess shaped to conform with the peripheral formation of said member, whereby when said element occupies an inactive position the same will be independent of said member but when in an active position the said element will be disposed within the groove of said member, and key actuated locking mechanism disposed in the outer end of said socket and capable of directly and positively effecting the rotation of said element.

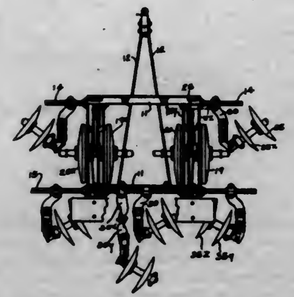
1,458,245. BED CORNER. MORRIS ROSENBERG, Warren, Ohio. Filed Mar. 16, 1922. Serial No. 544,074. 3 Claims. (Cl. 5—55.)

1. A bed corner having a face plate shaped to fit against the bed post, a bracket extending at right angles to the face plate, and a link extending through the face plate and bed post to receive a wedge, said link having its outer side portions extending from top to bottom of the aforesaid bracket, and the upper and lower portions



of said side members turned in so as to overlap, and with the overlapped portions secured to the top and bottom walls of the bracket.

1,458,246. THREE-ROW RIDGE CULTIVATOR. JOSEPH SCHERMULY, Wichita, Kans. Filed May 23, 1922. Serial No. 563,030. 5 Claims. (Cl. 97—56.)



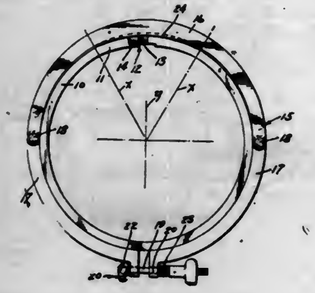
1. In a machine of the class described, a frame including front and rear elements; two sets of side elements, each set comprising a pair of frame elements spaced apart in parallelism and adjustably secured to the said front and rear elements at selected intervals spaced apart; an axle for each set of side elements and wheels supporting the machine revolvably mounted thereon.

1,458,247. WIRE CLAMP. JOHANNES F. SCHLEPER, Amsterdam, Netherlands. Filed Feb. 20, 1920. Serial No. 360,233. 5 Claims. (Cl. 173—263.)



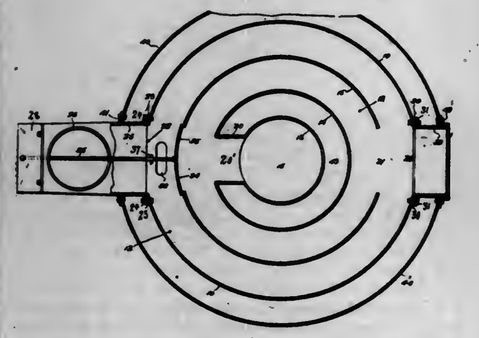
3. An electric wire connector, comprising a member having an upstanding collar over which the ends of the wires are bent, arms projecting from said collar and having spaces between them to receive the wire ends and hold the same spaced, means surrounding said arms and adapted to engage the bent ends of the wires and electrically connecting the same, said means being deformable to fit wires of different diameters, and means engaging said arms and also engaging said means surrounding the arms for causing the latter to clamp the wires and insure good electrical connection.

1,458,248. PROCESS AND APPARATUS FOR FORMING PISTON RINGS. HENRY R. SEIFERT, East Ellsworth, Wis. Filed July 18, 1921. Serial No. 485,686. 10 Claims. (Cl. 29—156.6.)



1. The process of making piston rings which consists of forming a ring with ends arranged to overlap when compressed, forming the inner surface of the ring at said ends with an inset eccentric portion, compressing the ring and springing its ends inward, holding the ring while compressed with its ends sprung inward, and cutting the periphery of the ring, while compressed and its ends sprung inward, to a true circle.

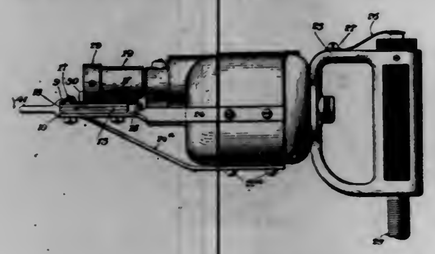
1,458,249. FURNACE. FRANK C. STANKRAUFF, Detroit, Mich. Filed Nov. 26, 1921. Serial No. 517,841. 4 Claims. (Cl. 126—102.)



1. In a furnace a hollow annular radiator element adapted to be mounted on the means providing the combustion chamber of the furnace and comprising a body portion having a top and bottom integral therewith and further including an inner, intermediate and outer spaced circular member interposed between and integral with said top and bottom thereby providing an outer passageway, an intermediate passageway and a centrally disposed flue spaced from the inner passageway and formed with a closed top and having its bottom opening directly into the top of the combustion chamber of the furnace, said top and bottom of said element formed with an opening to provide a hot air outlet passage between said inner and intermediate members, means for establishing communication between said flue and inner passageway, said outer member having diametrically opposed openings for establishing communication between said inner and outer passageways, an outlet flue leading from said outer passageway and in alignment with one of the open-

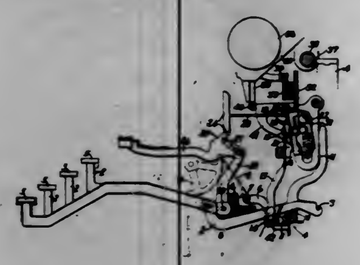
ings in said outer member, and shiftable means for closing said last mentioned opening, said body portion and said inner and outer circular members being tapered.

1,458,250. HEDGE CUTTER. WILLIAM J. STAUDINGER, Brooklyn, N. Y. Filed Sept. 29, 1922. Serial No. 591,235. 10 Claims. (Cl. 30—11.)



1. In a hedge cutter, the combination of supporting means comprising a pair of supporting plates, means extending between said plates for spacing them apart, a cutter blade adapted to be reciprocated between said plates, a motor carried by said supporting means at one end thereof, and a pair of handles at opposite ends of the supporting means for manipulating the hedge cutter.

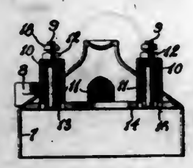
1,458,251. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1922. Serial No. 557,073. 10 Claims. (Cl. 197—83.)



1. In a typewriting machine having a traveling carriage, an escapement mechanism therefor, type-keys, and means for operating the escapement mechanism from the type-keys, the combination of means for silencing the escapement mechanism including a bar universal to the type-keys and provided with bendable teeth or tongues individual to corresponding type-keys, and capable of occupying a position to cause the type-keys to operate said bar for silencing the escapement mechanism, and capable of occupying another position in which the type-keys are ineffective to operate said bar, whereby selected type-keys may silence the escapement mechanism and other selected type-keys may be effective to operate the escapement mechanism.

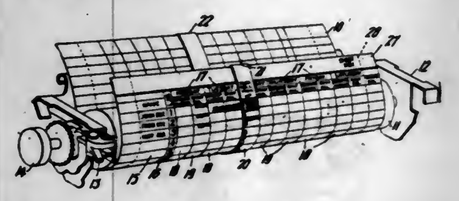
1,458,252. TIMER. JOHN H. STOAT, Merchantville, N. J. Filed Dec. 6, 1919. Serial No. 343,076. 3 Claims. (Cl. 200—19.)

1. The combination in a timer of a timer shaft, a rotating brush, an annular race composed of hard material such as metal on which the brush rides, said race being disposed at approximately right angles to the axis of the shaft and being provided with apertures, and a plurality



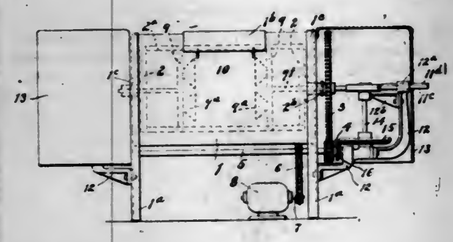
of contacts projecting into said apertures from a direction substantially parallel to the axis of the shaft and lying approximately flush with the race.

1,458,253. LEDGER SHEET. EDWARD THOMAS, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 16, 1919. Serial No. 304,597. 15 Claims. (Cl. 283—65.)



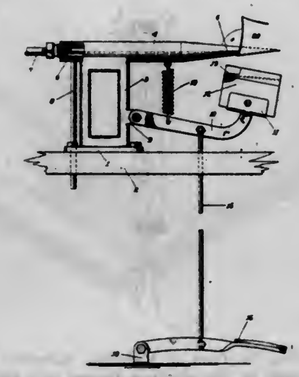
1. The combination with a Boston ledger sheet having day columns and subsidiary columns, of a strip tending to cling to said sheet to accommodate a pick-up column having a plurality of fold lines, and shiftable along its length upon the sheet from one to another of the fold lines to alter the height of a pick-up balance.

1,458,254. WASHING MACHINE. WILLIAM H. THOMPSON, Burbank, Ohio. Filed May 11, 1922. Serial No. 560,233. 4 Claims. (Cl. 68—18.)



3. A washing machine, comprising a casing, a washing cylinder of open formation rotatably mounted therein, piston heads in said cylinder movable longitudinally therein toward and from each other, vacuum creating devices carried by said pistons and adapted to engage the clothes to be washed as moved toward each other and to create suction therein as moved from each other as the cylinder is rotated, means for rotating said cylinder in said casing, and means for simultaneously moving said piston heads toward and from each other as the cylinder is rotated.

1,458,255. SHAPING MACHINE FOR LAUNDERED COLLARS. SAMUEL L. THRIFT, Stockton, Calif. Filed Mar. 22, 1922. Serial No. 545,761. 2 Claims. (Cl. 68—9.)



1. A mandrel which is circular in cross section, such mandrel having a gradual taper terminating in a sharp point which can be readily inserted into the open end of a turned down collar to form a roll therein gradually increasing in diameter from the normal crease of the collar to the open end thereof, and a presser block co-operating with said mandrel.

1,458,256. CELLULOSE-ETHER COMPOSITION. ADRIAAN P. H. TRIVELLI, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 2, 1922. Serial No. 533,659. 6 Claims. (Cl. 134—79.)

5. A composition of matter comprising cellulose ether, a monohydroxy aliphatic alcohol containing more than two but less than six carbon atoms and xylol.

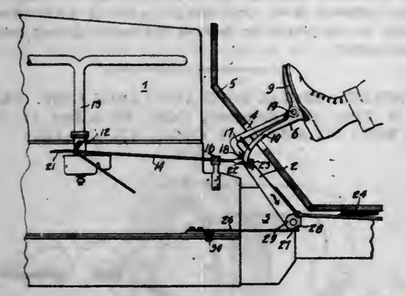
1,458,257. RUBBER HEEL. JEAN VAN MELLE, Dubuque, Iowa. Filed Apr. 18, 1922. Serial No. 554,690. 1 Claim. (Cl. 36—39.)



In a detachable resilient shoe heel, a rubber body conforming to the shape of a heel and provided with a circular opening, a metal plate positioned on top of the rubber body, a series of V-shaped tongues struck from the metal body and molded within the rubber body, said metal plate provided with a series of openings to align with openings in the rubber body for the reception of fastening means to a leather heel, and a plug rotatable within the circular opening of the rubber body.

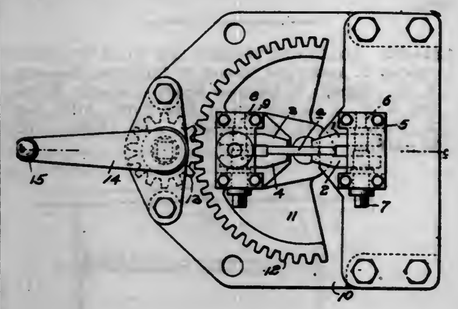
1,458,258. CONTROL MECHANISM FOR AUTOMOBILES. WILLIAM W. WHITTON, Oakland, Calif. Filed July 6, 1920. Serial No. 394,019. 1 Claim. (Cl. 74—81.)

In an automobile having an engine provided with a valve-controlled fuel intake passage, a foot-brake lever pivoted to a relatively stationary member and projecting thru an opening in the dash-board of the automobile, a fuel-control foot-lever pivoted to said brake-lever hav-



ing one arm thereof extending thru said dash opening, and means concealed behind the dash-board for resiliently retaining said levers in inoperative position.

1,458,259. TESTING MACHINE. FREDERICK WILLS, Warren, Ohio, assignor to The Trumbull Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Aug. 5, 1921. Serial No. 490,018. 3 Claims. (Cl. 265—13.)



1. In a machine for subjecting material to a bending test, the combination of two clamping devices mounted on a suitable foundation and spaced apart at an interval one from the other and adapted to receive undistorted an article introduced simultaneously into both, said clamping devices being mounted so as to be movable, one relatively to the other, in a direction transverse to a length of material held undistorted between them, means for effecting such relative movement without increasing the distance between the clamping devices.

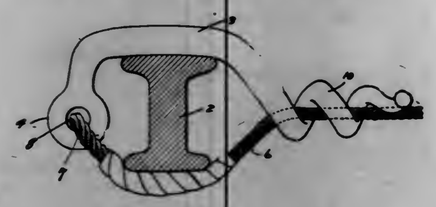
1,458,260. FENCE STRUCTURE. GEORGE W. WILSON, Hopkinsville, Ky. Filed May 13, 1922. Serial No. 560,584. 4 Claims. (Cl. 256—27.)



1. A coupling member comprising two elongated plates, one of said plates having an elongated slot, the second plate being insertable through said slot, said

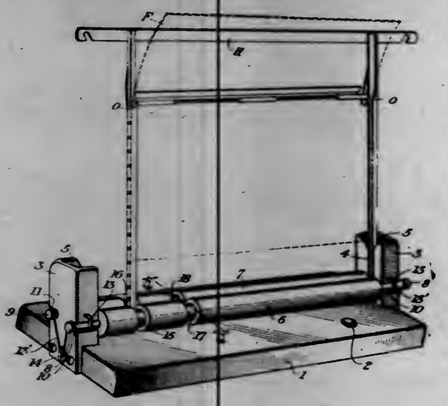
second plate having a marginal slot to receive a portion of the first plate defining the slot when said plates are in overlying relation, the outer ends of the plates having opposed jaws, and means co-acting with adjacent ends of the plates for holding the same against relative movement.

1,458,261. SPIRAL ROPE AND CABLE GRIP. GEORGE J. ZINK, San Francisco, Calif. Filed July 11, 1921. Serial No. 483,941. 1 Claim. (Cl. 24—115.)



Means for forming a loop around an object comprising a spiral, a shank extending from one end of the spiral substantially at the angle of the spiral windings, a flexible member and means for securing the same to the free end of the shank allowing an intermediate portion of the flexible member to be twisted into the spiral while the shank and the flexible member encircle the object.

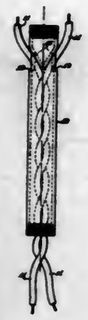
1,458,262. LOADING FIXTURE FOR FILM HOLDERS. ERNEST C. ALLEN and GEORGE F. PHILLIPS, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 2, 1921. Serial No. 498,017. 11 Claims. (Cl. 95—100.)



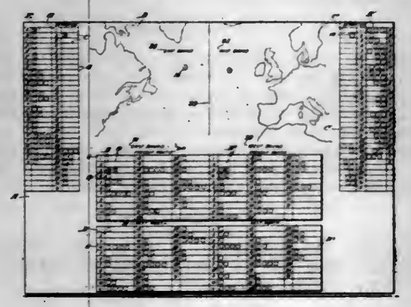
1. A loading fixture for film holders, comprising a base, and means on the base for supporting a film holder at an angle thereto.

1,458,263. ELECTRIC-WIRE FIXTURE. CHARLES BARTON, Ford City, Ontario, Canada, assignor to Swedish Crucible Steel Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 2, 1921. Serial No. 519,415. 1 Claim. (Cl. 240—85.)

An electric light fixture comprising a wall stud, a hollow fixture member supported thereby, said fixture member having opposed side walls cut and the cut material struck inwardly to leave opposed side openings adjacent the upper end of said member with the inwardly struck material supported from the upper end walls of said openings and the lower ends of the material meeting to form a V-shaped deflector in said fixture member at the openings thereof and adapted to guide ends of wires out of the fixture member.



1,458,264. CHART. EMIL BÖNNELYCKE, Washington, D. C. Filed Jan. 25, 1922. Serial No. 531,728. 2 Claims. (Cl. 116—136.)

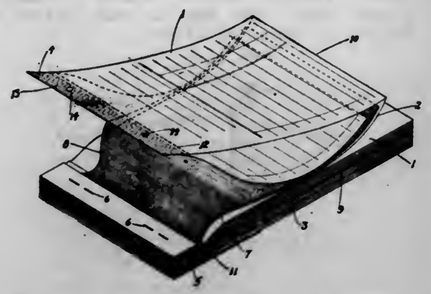


2. The combination of a chart having thereon two separate sets of definite spaces which are numbered in counterpart to indicate the chronological order of ships' sailings, the first set indicating the ships scheduled to depart and the second set indicating departed ships, and a geographically-indicated space; and two duplicate sets of indicating devices, each device bearing the name of a ship and its average time of voyage; the indicating devices of one set adapted to be initially positioned in the first set of spaces according to the chronological sailing schedule of the ships to which they relate, and to be successively transferred therefrom to the correspondingly-numbered spaces of the second set as said ships depart; the other set of indicating devices adapted to be positioned in said geographically-indicated space simultaneously with the transfer of the duplicate indicating devices of the first set from the first to the second set of spaces.

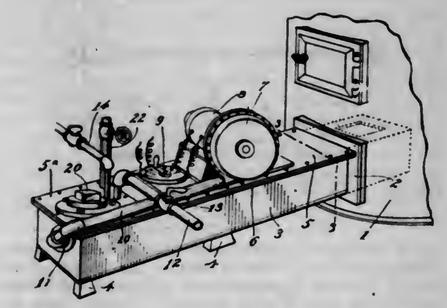
1,458,265. MANIFOLDING SALESBOOK. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Sept. 30, 1919. Serial No. 327,372. 15 Claims. (Cl. 282—9.)

12. A manifolding salesbook comprising, in combination, a series of sets of checks bound together in book

form, each set including three checks joined end to end with each other, one check forming the sole connection of the corresponding set of checks with the book, the other two checks being pasted together to form the above mentioned joint therebetween.



1,458,266. LIQUID-FUEL-BURNING APPLIANCE. ROBERT G. BREEDING, Cincinnati, Ohio. Filed Oct. 13, 1920. Serial No. 416,727. 10 Claims. (Cl. 158—28.)



8. An oil burning appliance comprising an elongated box like structure suitably heat insulated, said box having a removable cover at the outer end thereof, and a delivery opening at the other end thereof, and oil inlet and gas inlet pipe passing into the conduit through said removable cover, and a blower having its delivery opening into the conduit directed along the axis of the conduit at the oil inlet end thereof, said oil inlet pipe having a burner mounted thereon within the conduit, said burner having a large oil outlet, and a spherical faced block about said opening, said spherical face being directed toward the blower delivery opening, and a hand hole formed within the romovable cover, said hand hole having a closing plug therein.

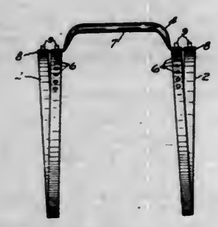
1,458,267. RESILIENT TIRE. VERNON L. BUCHMAN, Trenton, N. J. Filed July 13, 1920. Serial No. 395,832. 3 Claims. (Cl. 301—31.)

1. In a wheel construction of the class described, a rim body having side walls and provided with beveled end edges converging toward the outer side of the body, a detachable rim section slidably fitting between the ends of the rim body and having beveled end edges mating with the end edges of the rim body, said rim section being movable inwardly and radially of the rim body to released position, coupling plates fixed to



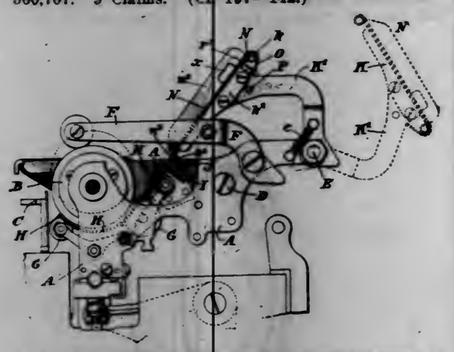
the ends of the rim section and overlapping the ends of the rim body, lugs upon said plates extending through the rim body and provided with beveled confronting shoulders coacting with the rim body, and bolts fitting through the plates and engaging the base of the rim body for securing said rim section against displacement.

1,458,268. WATERMELON CARRIER. SUMNER F. CALL, Hartford, Conn. Filed Oct. 22, 1921. Serial No. 509,543. 1 Claim. (Cl. 224—49.)



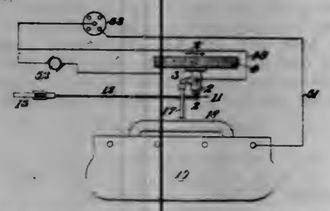
A watermelon-carrier comprising two strips to encircle the watermelon and provided with spurs for detachably connecting the strips with said watermelon, the strips having a perforation at one end portion and a series of perforations at their opposite end portion, and a bail-like handle having flat ends lying in a horizontal plane when the handle is in use, said ends being provided with upstanding lugs adjacent their edges which are adapted respectively to extend through end perforations in the strips when the latter overlie said ends.

1,458,269. TYPEWRITING MACHINE. WALTER D. CAMP, Wethersfield, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed May 13, 1922. Serial No. 560,707. 9 Claims. (Cl. 197—142.)



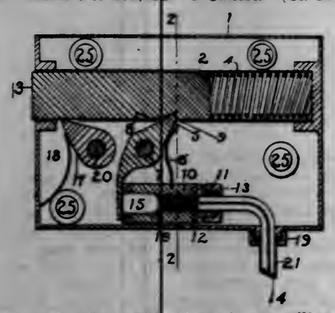
1. A paper table for typewriting machines having an elongated opening extending lengthwise of it and having enlargements at its opposite ends to receive a scale plate.

1,458,270. AUTOMOBILE ENGINE STOP. FORREST L. CANTRALL, Likley, Calif., assignor, by mesne assignments, to Engineering Specialties Company, San Francisco, Calif., a Corporation of California. Filed Jan. 3, 1921. Serial No. 434,621. 16 Claims. (Cl. 122—146.5.)



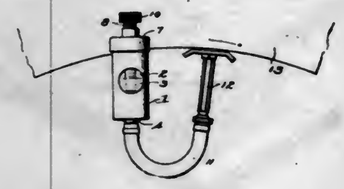
1. An attachment for automobile engines comprising a switch for interrupting the spark, means operating in both the closed and open positions of said switch for applying thereto a rapidly accelerated resilient pressure to throw the switch abruptly to the other position, and means effective when the transmission system of the automobile is inoperative for initiating the operation of said means.

1,458,271. AUXILIARY LOCKING BOLT. WILLIAM ELGIN CLARK, Minneapolis, Minn. Filed May 23, 1921. Serial No. 471,798. 8 Claims. (Cl. 109—3.)



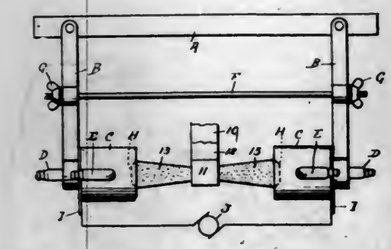
1. In a safe, the combination of an auxiliary locking bolt normally supported in inoperative position, with a combustible charge, and means adapted upon combustion of the charge to cause movement of the bolt to locking position.

1,458,272. TESTING DEVICE. MARTIN J. CLAUSEN, Seattle, Wash. Filed Apr. 12, 1922. Serial No. 551,784. 2 Claims. (Cl. 73—51.)



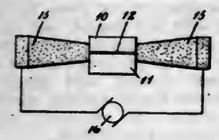
1. A valve leak detector, comprising a casing adapted to contain water and thru which the water column is visible, a conduit leading from the casing and adapted to be connected with the stem of a tire valve, a valve in the casing to control the admission of water to said conduit, said conduit being in part flexible.

1,458,273. WELDING APPARATUS. MONROE S. CLAWSON, Upper Montclair, N. J. Filed Apr. 23, 1920. Serial No. 376,068. 2 Claims. (Cl. 219—12.)



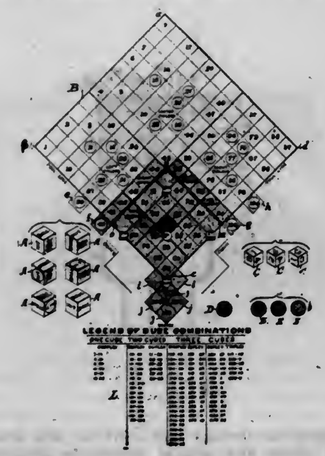
1. A welding apparatus comprising a pair of heads connected with a source of current, a member of refractory material associated with each head and having an enclosing metallic shell detachably engaged upon the head, and each refractory member being formed to receive one end of a resistance element.

1,458,274. WELDING PROCESS. MONROE S. CLAWSON, Upper Montclair, N. J. Filed Apr. 23, 1920. Serial No. 376,069. 2 Claims. (Cl. 219—10.)



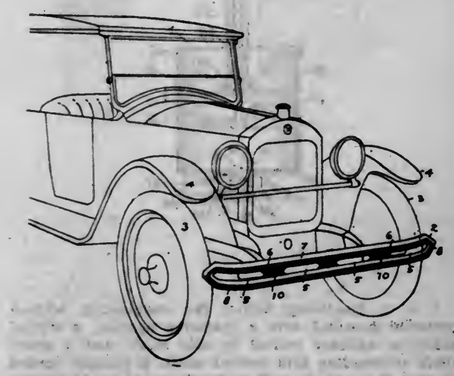
1. A process for welding pieces of metal having an alloy strip disposed therebetween consisting in passing an electric circuit through the joint and utilizing the thermo-electric current set up between the alloy and one of the pieces of metal when the same become heated for determining the point at which welding occurs.

1,458,275. BASEBALL GAME. HAROLD R. COSSITT, Alameda, Calif., assignor to Ninety Nine Publishing Company, Incorporated, Carson City, Nev., a Corporation of Nevada. Filed Mar. 13, 1922. Serial No. 543,351. 3 Claims. (Cl. 46—63.)



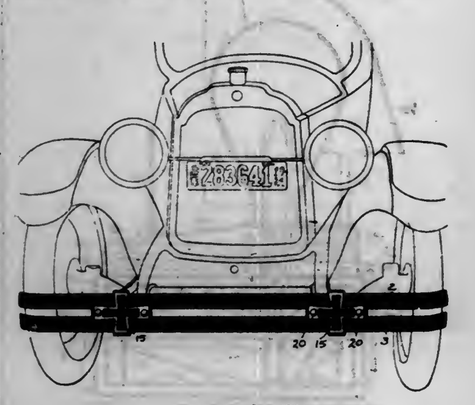
1. A base-ball game comprising an element adapted for the chance selection of any of a plurality of indices denoting the several initial results of a pitched ball; a second element adapted for the chance selection of any of a plurality of indices to determine the location of and the plays following a hit ball; a board element provided with surface delineations dividing it into areas some of which are differentially inscribed with indices to denote the fielding location of the hit ball and all furnishing counting means to determine the plays following the location of said hit ball; a legend of indices corresponding with the indices of said second element, said legend having also other indices corresponding both with its first named indices and with the differentially inscribed areas of the board element; and a plurality of independent pieces adapted for movement upon the board element to visually signalize the plays and the positions gained.

1,458,276. VEHICLE FENDER. WILLIAM G. COX, Cleveland, Ohio. Filed Feb. 5, 1923. Serial No. 616,972. 9 Claims. (Cl. 293—55.)



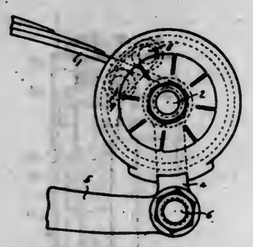
1. A fender for an automobile, comprising a supporting bar having looped spring extremities, and an impact plate fixed to said spring extremities having a series of elongated openings therein and beveled adjacent said openings.

1,458,277. END SHIELD FOR MOTOR VEHICLES. WILLIAM G. COX, Cleveland, Ohio. Filed Mar. 14, 1923. Serial No. 624,895. 15 Claims. (Cl. 293—55.)



4. A broad-faced shield or guard for a motor-vehicle comprising vertically spaced buffer rails, separate attachment arms lying adjacent each other in different horizontal planes for each rail, and means connecting the adjacent arms together in clamping engagement with said rails.

1,458,278. SHOCK ABSORBER. ALEXANDER DE BRETTEVILLE and GEORGE J. HENRY, San Francisco, Calif. Filed Apr. 19, 1920. Serial No. 374,787. 5 Claims. (Cl. 267—54.)

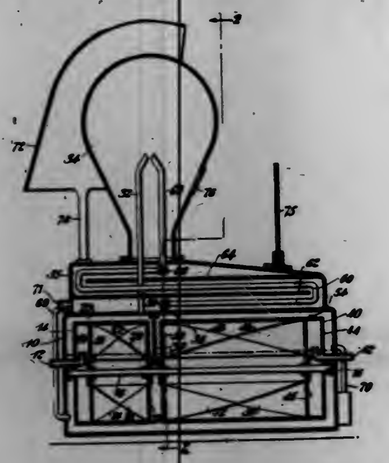


1. A spring shackle for a pair of coacting vehicle springs comprising a pair of side arms spaced apart, bolts connecting the ends of said arms and adapted to movably engage the springs, a pivot extending from one of said bolts and a shoulder therebetween, a disc about said pivot and movable with the adjacent arms, a second disc rotatably mounted on said pivot and having an extension adapted to engage one of the vehicle springs, and screw means on the end of said pivot adapted to clamp the discs against said shoulder.

1,458,279. DOMESTIC HEATING STOVE. HENRY L. DOHERTY, New York, N. Y., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 8, 1920. Serial No. 408,970. 15 Claims. (Cl. 126—85.)

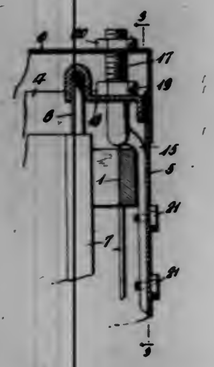
1. A method of heating dwellings or other buildings comprising mixing air and gas in such proportions as

will produce complete combustion of said air and gas, igniting said mixture in the interior of a closed combustion chamber of refractory readily incandescent material, maintaining a high flame temperature of said burning



products in contact with the walls of said chamber, and reflecting the radiant heat of the combustion chamber in a definite desired direction.

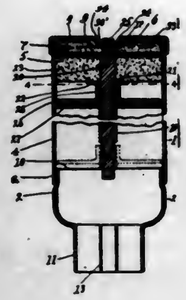
1,458,280. BATTERY BOX. FRANK M. DOOLEY, Mobile, Ala. Filed Apr. 14, 1922. Serial No. 552,745. 8 Claims. (Cl. 180—68.5.)



1. A device of the character described comprising a battery container, a cover therefor, a cover securing member carried by said container, and means on said member adapted to engage a battery in the container.

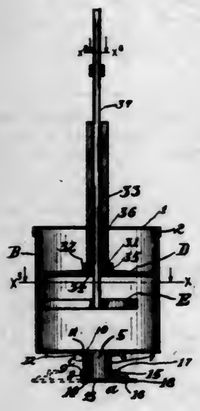
1,458,281. DAUBER. HOWARD E. EVERETT, St. Paul, Minn. Filed Apr. 3, 1922. Serial No. 548,962. 5 Claims. (Cl. 15—137.)

1. A dauber comprising a hollow handle adapted to contain a paste composition, a bristle brush screw threaded in the end of said handle, to constitute a closure therefor, an aperture within the body of the bristles of the brush, said aperture being in open communication with the atmosphere and with the interior of the handle, and hand operable means for forcing the



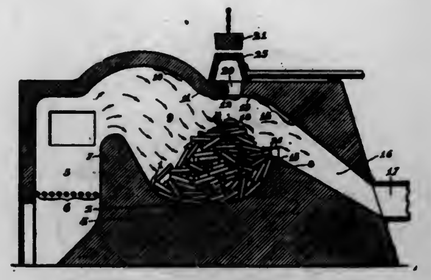
paste composition through said aperture, said means including a piston and member operatively connected to said piston extending through the wall of the handle, whereby said means may be actuated, and a humidifying element in the hollow of the handle back of said piston for the purpose set forth.

1,458,282. DISPENSER. LUKE J. FAIRBANKS, Los Angeles, Calif. Filed Feb. 10, 1920. Serial No. 357,729. 13 Claims. (Cl. 221—78.)



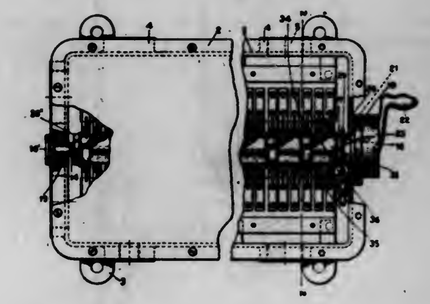
1. In a dispensing device, the combination with a container provided with a discharge opening, a central shaft, an agitator carried by said shaft, and a sleeve shaft surrounding said central shaft, a plunger carried by said sleeve shaft, both said agitator and said plunger being within the container and capable of reciprocal motion within same.

1,458,283. FURNACE FOR MELTING METALS. GEORGE D. FAULDS, Philadelphia, Pa. Filed Oct. 26, 1920. Serial No. 419,647. 2 Claims. (Cl. 266—33.)



1. A melting furnace having a combustion chamber and comprising a relatively deep fusion hearth, a high front bridge wall between the hearth and combustion chamber, a curved top wall to direct the hot gases over the bridge wall and then downward upon the hearth, and a sloping outlet passage to conduct the gases away from the hearth in a continuing downward direction, said top wall having a filling opening located above the hearth and toward the rear side, whereby the material fed through said opening may pile upon the hearth to partially constrict said passage and also to present a broad side exposed to direct contact with the gases coming from the combustion chamber to hasten fusion.

1,458,284. CIRCUIT CONTROLLER. HANNIBAL C. FORD, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1918. Serial No. 239,909. 6 Claims. (Cl. 200—8.)



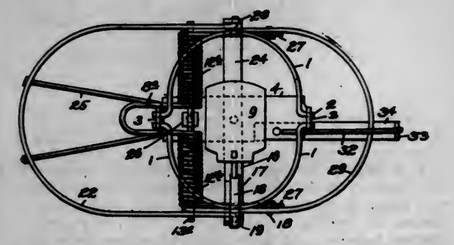
1. In a multi-throw control switch, a rotary contact of conducting material having a plurality of contact segments, said segments being longitudinally disposed and out of radial alignment, a pair of brushes for each contact segment, one brush of one pair of said brushes being adapted to be connected to a source of current and an auxiliary brush adapted to be connected to a source of current engaging one of said contact segments when the other brush connected to the source of current is disengaged from the segments, both of said last two named brushes being out of engagement with the contact segments in one position of the switch.

1,458,285. HAND TRUCK. PETER C. FRITZ, Philadelphia, Pa., assignor, by mesne assignments, to Pittsburgh Hand Truck Mfg. Co., Pittsburgh, Pa., a Corporation of Delaware. Filed June 12, 1919, Serial No. 303,733. Renewed Nov. 10, 1922. Serial No. 600,189. 1 Claim. (Cl. 214—63.4.)



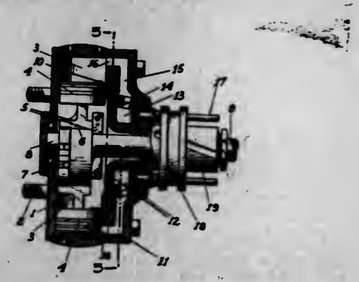
In combination with a hand truck a ratchet bar and casing being adapted to slide upon said bar, a spring actuated pawl enclosed within said casing, lugs projecting from the tail of the pawl through the sides of the casing for hand manipulation, a hook bar attached to said casing so as to move therewith when the latter is slid upon the ratchet bar, and a two pronged hook formed upon said hook bar.

1,458,286. ANIMAL TRAP. WALTER A. GIBBS, Wilmington, Del. Filed Sept. 24, 1919. Serial No. 326,053. 11 Claims. (Cl. 43—88.)



1. An animal trap having in combination pivotally mounted main jaws, an auxiliary jaw having its pivotal axis at an angle to the axes of the movement of the main jaws, a lever provided with fingers adapted to shift and lock the main jaws in closed position, a spring operatively connected to said lever and to the auxiliary jaw and means for releasably holding the main jaws and auxiliary jaws.

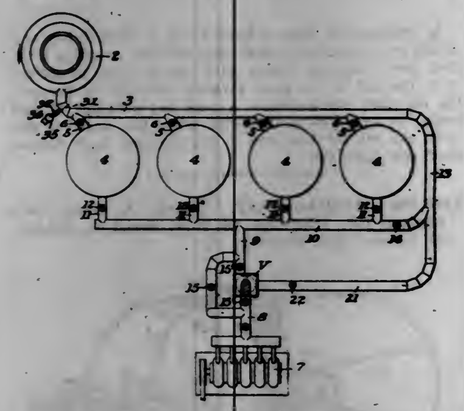
1,458,287. OIL-PRESSURE CLUTCH. ALFRED D. GOODWIN, Ripon, Calif. Filed Jan. 11, 1922. Serial No. 528,518. 2 Claims. (Cl. 192—60.)



1. An oil pressure clutch comprising a closed casing, radially disposed cylinders therein, pistons in the cylinders, a driven shaft journaled in the casing, operative connections between the shaft and pistons whereby the reciprocatory movements of the latter will be opposed to each other, a rotary valve member mounted in the

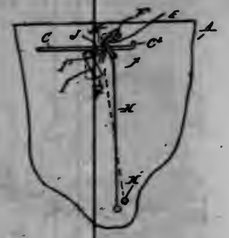
casing and surrounding the shaft, an oil chamber formed in the valve and extending continuously therearound, passageways formed in the casing and extending radially from the peripheral ends of the cylinders, and ports in the valve leading from the chamber to the periphery thereof and adapted to communicate with the passageways.

1,458,288. AIR-BLAST CONTROL FOR BLAST FURNACES. HERBERT W. GRAHAM, Pittsburgh, Pa. Filed Oct. 22, 1920. Serial No. 418,778. 20 Claims. (Cl. 263—19.)



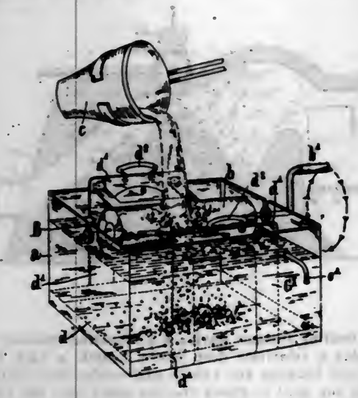
1. A system for blast furnace control, comprising a hot blast main for the furnace, means for creating an air blast, a heater connected to said main and said means for heating a portion of the air, a second connection between said main and said means for a portion of the air, and means for simultaneously controlling from minimum to maximum the amount of air passing through either of said connections, said means being effective for causing substantially all of said air to pass through either one of said connections at will, substantially as described.

1,458,289. GARAGE-DOOR HOLDER. CHARLES F. GRANZOW, Jr., Detroit, Mich. Filed July 2, 1921. Serial No. 482,082. 7 Claims. (Cl. 292—274.)



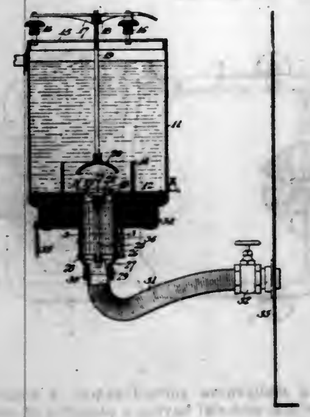
1. In a device of the character described, the combination with a hinged door and its frame, of a rod pivoted upon said frame and extending substantially in a horizontal direction and substantially parallel to the door, and means for holding said door in any desired position of adjustment comprising a gravity actuated latch member pivoted upon the door and having a portion apertured for engagement by said rod and normally inclined to said rod and said latch member binding upon the rod to frictionally resist relative sliding of the rod and latch member in one direction.

1,458,290. METHOD OF PREPARING METALLIC ALLOYS AND OF REFINING METALS AND ALLOYS. HORACE CAMPBELL HALL, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British Company. Filed Feb. 18, 1921. Serial No. 446,114. 3 Claims. (Cl. 75—1.)



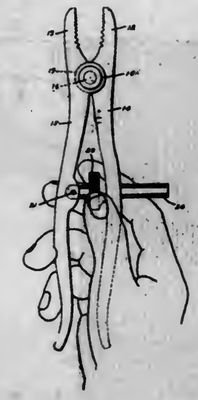
1. A method of preparing metal alloys and of refining metals and alloys consisting in introducing into a main molten constituent an additive metal or metals in a granulated and oil coated condition.

1,458,291. APPARATUS FOR DEHYDRATING PETROLEUM OILS. FORD W. HARRIS, Los Angeles, Calif., assignor to Petroleum Rectifying Company, a Corporation of California. Original application filed June 28, 1921, Serial No. 481,171. Divided and this application filed Sept. 19, 1921. Serial No. 501,548. 12 Claims. (Cl. 204—24.)



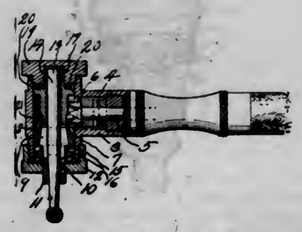
1. An apparatus for dehydrating petroleum emulsions comprising a tank; a pipe by which an emulsion composed of petroleum and water may be introduced into said tank; a lower electrode secured near the bottom of said tank; an upper electrode insulated from said tank and secured near said lower electrode under the surface of said emulsion; and means for subjecting any current flowing between said electrodes through said emulsion to the action of a coercive magnetic field.

1,458,292. LOCKING PLIERS. LEWIS E. HART, Needham, Mass. Filed Aug. 25, 1922. Serial No. 584,270. 1 Claim. (Cl. 294—41.)



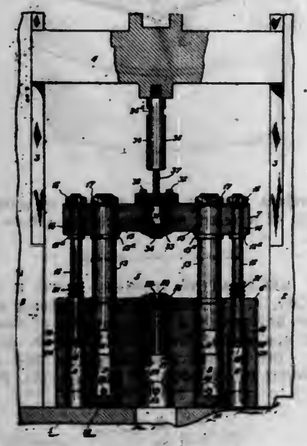
Locking pliers comprising a pair of elongated pivotally connected members; a pivot connecting the same, each member including a jaw at one side, and a handle at the opposite side of the pivot, the outer end portions of the handles constituting rests on which jaw-opening pressure may be exerted by a hand holding the pliers; and an adjustable brace composed of a screw-threaded rod pivoted to one handle and passing loosely through a slot in the other handle, and a nut engaged with the rod between the handles, and adapted to bear on the inner side of the slotted handle, said nut having a peripheral grip portion of greater diameter than the width of the handles, the said brace being located between the rest portions of the handles and the pivot, so that the nut may be turned by the thumb and a finger of the hand holding the pliers.

1,458,293. DENTAL TOOL. CLAUDE E. HINCHEY, Weyauga, Wis. Filed Mar. 29, 1922. Serial No. 547,801. 2 Claims. (Cl. 32—11.)



1. A dental head comprising a T-shaped casing, a driving gear mounted in one of the arms of the T-shaped casing, a rotatable chuck rotatably mounted in the other arms, a driven ring gear surrounding the chuck and floatably mounted in the last named arms, said chuck being provided with a tapered split inner portion cooperating with a tapered chamber in the gear ring and forming a clutch therebetween, antifrictional bearings for supporting the chuck and adjustable caps whereby the tapered split chuck may be contracted for holding a drill and frictionally engaging within the tapered chamber of the ring gear.

1,458,294. SWAGING APPARATUS. HENRY C. HOOK, Windsor, Vt., assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 15, 1920. Serial No. 430,901. 15 Claims. (Cl. 29—34.)



1. In an apparatus for swaging tubular articles in combination with a die having downwardly tapered side walls and a bottom wall adapted to support a tubular article, of a punch having an enlarged portion adapted to cause radial expansion of a tubular article in the die, and a shoulder adapted to remove said article from the die.

1,458,295. MUD LUG FOR VEHICLE WHEELS. JAMES M. JACOBS, East Peoria, Ill. Filed June 5, 1922. Serial No. 566,168. 8 Claims. (Cl. 152—14.)



6. In a device of the character described, a series of shoes adapted to receive upon them the tire of a vehicle wheel, each including a part at each side of the tire extending toward the wheel center, a sleeve clamped upon each of certain of the spokes of the wheel and each including a stop, and means connecting the parts on each shoe, the same encircling one of the said sleeves, being slidable thereon and in its sliding movement being limited by said stop.

1,458,296. SUPPORT FOR COOKING VESSELS. JOSEPH H. JACOBS, Denver, Colo., assignor to 3-In-One Pressure Cooker Company, Denver, Colo., a Corporation of Colorado. Filed Jan. 16, 1922. Serial No. 529,522. 3 Claims. (Cl. 248—41.)

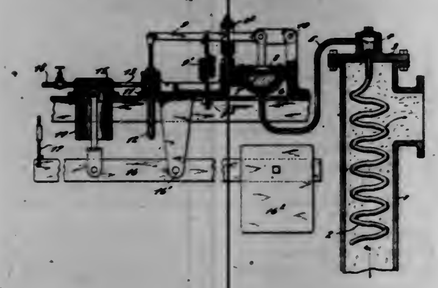
1. As a new article of manufacture, a plurality of straight and rigid rods, pivotally connected at one end

and adapted to lie in spider form in a horizontal plane, the arms at their free ends only having downwardly



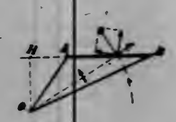
curved portions forming hooks adapted to embrace the circular rim of a vessel upon which the article is to be supported.

1,458,297. REGULATING DEVICE. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Dec. 14, 1916, Serial No. 136,823. Divided and this application filed Aug. 10, 1918. Serial No. 249,361. 7 Claims. (Cl. 236—86.)



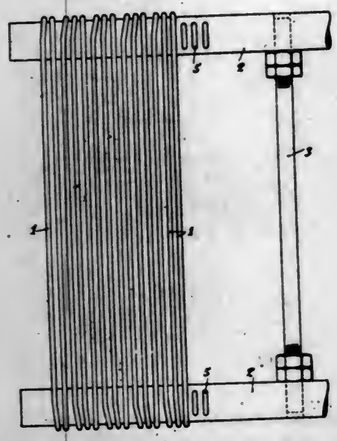
1. In a regulating device, a movable member, a cylinder and its piston for moving said member, a valve for controlling the admission of a fluid under constant pressure to said cylinder, a controlling mechanism connected to said valve and actuated by a fluid under variable pressure and means to return said member to normal position, said cylinder having a permanently open outlet for the discharge of the fluid therefrom.

1,458,298. OSCILLATING SIEVE. ARMAND JACQUELIN, Paris, France. Filed Dec. 28, 1921. Serial No. 525,436. 10 Claims. (Cl. 83—56.)



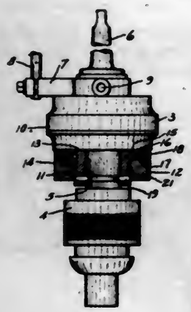
1. In an oscillating sieve, the combination with a fixed support, of a casing, a single horizontal shaft carrying said casing, and arranged below the same in front of the perforated surfaces of the riddles of said sieve, the movement of the sieve from back to front being the movement of progression of the material over the riddles, the rear portion of the riddles being inclined towards the rear of the sieve, i. e., towards that portion where the material to be treated is admitted to the sieve, and a damping system being interposed between the said casing and the said fixed support.

1,458,299. GRID OR RIDDLE FOR SIFTING MINERALS, COAL, AND OTHER MATERIALS. ARMAND JACQUELIN, Paris, France. Filed Dec. 28, 1921. Serial No. 525,437. 3 Claims. (Cl. 80—56.)



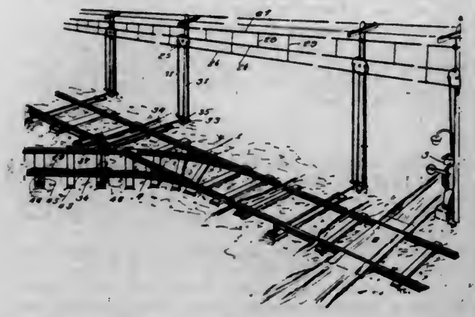
1. A sifting grid comprising a continuous metal wire wound around a frame and then stretched, the upper strands of the wire being arranged in a certain number of parallel planes and the lower strands of the wire being connected in bundles of two or more.

1,458,300. TAP CHUCK. MARSHALL N. JARVIS, Glidersleeve, Conn. Filed May 14, 1921. Serial No. 469,542. 1 Claim. (Cl. 10—134.)



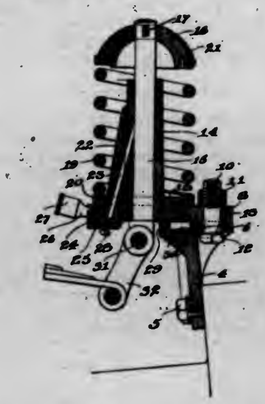
A tap chuck comprising a housing to contain driving mechanism and furnished with a rigid projecting sleeve, a spindle operatively associated with the housing, extending through the sleeve and longitudinally adjustable therethrough, a ring surrounding the sleeve and advanceable and retractable thereon into two positions, yieldingly urged balls on the ring, the sleeve being separately grooved to receive the balls when the ring is in one of its two positions and thus hold the same in an adjusted position, radially slidable pins in the sleeve, the ring having a groove to receive the outer ends of the pins when the spindle is in its back position, and a groove on the spindle to receive the inner ends of the pins when the spindle is in said back position.

1,458,301. SIGNALING APPARATUS. JAMES W. KENNEDY, Canton, Ohio. Filed Oct. 2, 1922. Serial No. 591,802. 11 Claims. (Cl. 246—293.)



2. Apparatus for operating a permanently located semaphore, comprising a pair of longitudinally extending ramps pivotally mounted upon pivotally mounted supports, an actuating rod, supplemental rods connected to the actuating rods for operating the semaphore, means provided on the longitudinally extending ramps for rotating the actuating rods and a connection between the actuating rods, whereby the signals on the semaphore are alternately set to indicate danger or safety, by a moving train.

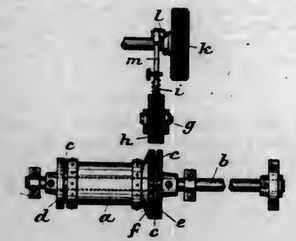
1,458,302. SHOCK ABSORBER. EDWARD KRUK, Coplay, Pa. Filed Nov. 22, 1921. Serial No. 516,991. 3 Claims. (Cl. 267—29.)



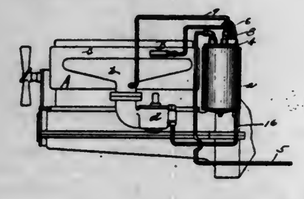
1. In a device of the character described comprising a base, a rod slidable relative the base and spring means operative between the base and the rod and means for securing the base to the frame of a vehicle including a versible wedging means for varying the inclination of the rod relative the vehicle.

1,458,303. ARRANGEMENT OF CENTERING THE FILM IN THE GATE OF CINEMATOGRAPH PROJECTORS. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany. Filed Aug. 31, 1921. Serial No. 497,303. 4 Claims. (Cl. 88—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In mechanism of the class described, means for adjusting the film in the window, comprising in combination with the intermittently moving feed wheel and the drive shaft for the film, of a normally operative frictional connection between the feed wheel and the driving shaft for the film, and manually operated means for positively connecting the feed wheel with the film drive shaft to cause said wheel and shaft to move at different speeds.

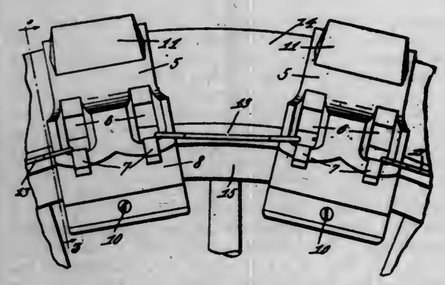


1,458,304. MOTOR-CONTROL MEANS AND SYSTEM AND METHOD. RUDOLPH KYSELA, Los Angeles, Calif., assignor of one-half to Leo V. Starr, Los Angeles, Calif. Filed Oct. 27, 1921. Serial No. 510,774. 9 Claims. (Cl. 123—119.)



1. The combination, with a vacuum system for supplying liquid fuel to internal combustion motors, of means associated with said motor and said system for cutting off air supply to the vacuum system and thus preventing fuel supply to said motor if the motor starts to overheat.

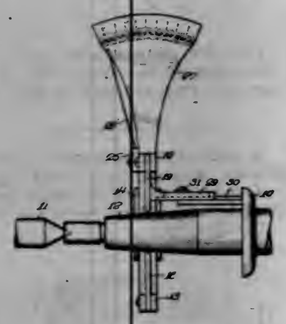
1,458,305. MUD LUG. EDWARD J. LAHAN, Quincy, Ill. Filed Oct. 14, 1920. Serial No. 416,821. 1 Claim. (Cl. 152—14.)



An anti-skid device including mud lugs, each of which comprises a curved body portion formed of rigid material and having pairs of openings formed adjacent to the ends thereof, opposed metallic securing sections, each of said having a pair of fingers, said fingers adapted to extend through the openings of the body portion and engage

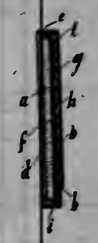
the body portion to fasten the securing sections to the body portion, means for clamping the securing sections together, spacing links having their ends disposed within the openings of adjacent lugs and bent around portions of the body portions to secure the links to the lugs, and said links being of lengths to extend between adjacent lugs when positioned on a tire to hold the lugs in spaced relation with each other.

1,458,306. MICROMETER. ARTHUR H. LAMBERT, Muskegon, Mich., assignor to Muskegon Motor Specialties Company, a Corporation of Michigan. Filed Sept. 14, 1920. Serial No. 410,209. 1 Claim. (Cl. 33—148.)



A micrometer for measuring elongated tapering objects comprising a pair of pivoted measuring jaws for engaging opposite sides of the object to be calipered, and a gage extending axially of the object and adjustable to locate the jaws at the same point of the taper of a plurality of like objects.

1,458,307. DRY ELECTRIC BATTERY. LOUIS LEVAILLANT, Zurich, Switzerland, assignor to Heinrich Gattikertanner, St. Gallen, Switzerland. Filed Jan. 12, 1923. Serial No. 612,240. 3 Claims. (Cl. 204—38.)



3. An electric battery cell of the character described, comprising a carbon electrode composed of a hard impervious shell and of a soft active carbon-manganese mixture accommodated in the hollow of said shell, a zinc electrode composed of a dished plate applied to the rim of said shell so as to cover the active mixture, a porous diaphragm interposed between the electrodes, and an electrolyte arranged between the diaphragm and the zinc plate, the zinc plate being formed with a neck through which the electrolyte can be introduced after the electrodes have been assembled and connected.

1,458,308. CEMENT. PURL C. PLASTERER, Hamilton, Ohio, assignor to Darn E. Z. Laboratorys, Dayton, Ohio, a partnership consisting of Purl C. Plasterer, Karl M. Horne, and James A. Hopkins. Filed Mar. 11, 1921. Serial No. 451,631. 1 Claim. (Cl. 87—17.)

A cement consisting of rubber digested together with commercial rosin and commercial brown shellac into a semi-solid by means of carbon disulphide, and gum arabic dissolved in benzine, said ingredients digested together to form a thick paste.

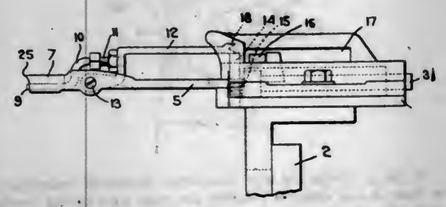
1,458,309. METHOD OF MAKING BISULPHITE COOKING LIQUOR. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 28, 1920. Serial No. 406,644. 8 Claims. (Cl. 23—18.)

1. In the manufacture of sulphite cooking liquor for use in producing sulphite pulp, the following steps, comprising enriching the raw acid liquor with free sulphur dioxide by recovered blow-pit gas to produce an intermediate acid liquor having a greater free sulphur dioxide content, and producing a final acid liquor having an increased free sulphur dioxide content by enriching the intermediate acid liquor with relief gas from the digester.

1,458,310. PROCESS OF MAKING SULPHITE LIQUOR. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 3, 1920. Serial No. 408,052. 6 Claims. (Cl. 23—13.)

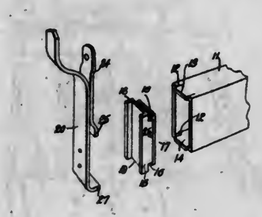
1. A process of making sulphite cooking liquor, which comprises producing a sulphite solution by an absorption system, separating the gases from the hot liquor relieved from the digester, cooling the strong gas thus separated, absorbing sulphur dioxide from the cooled strong gas, recovering free sulphur dioxide from the remaining hot relief liquor, and passing such recovered sulphur dioxide into the said system where the strength of the gas in said system is approximately that of the recovered gas.

1,458,311. FEELER MECHANISM FOR LOOMS. ALBERT J. ROOSE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 19, 1922. Serial No. 569,267. 4 Claims. (Cl. 139—85.)



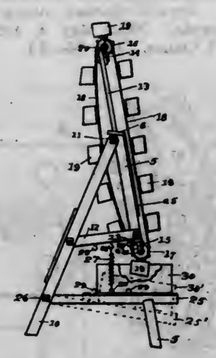
1. A feeler mechanism for looms comprising an impinging member adapted to engage and be moved forwardly by the running filling carrier upon a detecting beat, a detecting member movable with and with respect to the impinging member, means actuated by movement of the detecting member with respect to the impinging member followed by forward movement of the detecting member with the impinging member for initiating filling replenishment, the impinging member having a protecting projection extending rearwardly from its face above the detecting member whereby upon the improper presentation of a hard surface opposite the said members upon the detecting beat the blow will be taken by the said projection without effecing movement of the detecting member with respect to the impinging member.

1,458,312. TUBE-FRAME BRACKET. EFFA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1923. Serial No. 626,826. 4 Claims. (Cl. 139—10.)



4. In a loom, a rectangular hollow metal tube frame, an end block and a tube frame bracket, said frame and said bracket having portions interlocked with said block to secure said parts in fixed assembled relation.

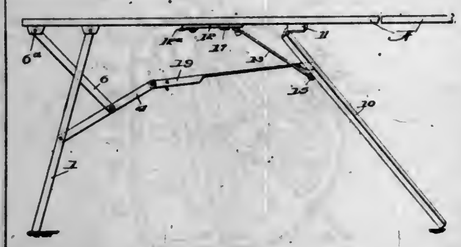
1,458,313. FRUIT-PICKER'S LADDER AND CONVEYER. NEWTON D. SERGEANT, Bellingham, Wash., assignor of one-third to J. V. Lindquist, Bellingham, Wash. Filed June 12, 1922. Serial No. 567,595. 3 Claims. (Cl. 214—1.)



1. In combination, a ladder, a gravity conveyer mounted longitudinally on said ladder for operation thereon, a plurality of buckets adapted to carry fruit fastened at spaced intervals to said conveyer's chain, a receptacle beneath the delivery end of said conveyer, and means whereby said receptacle is automatically depressed by the weight of the fruit delivered from said buckets into said receptacle.

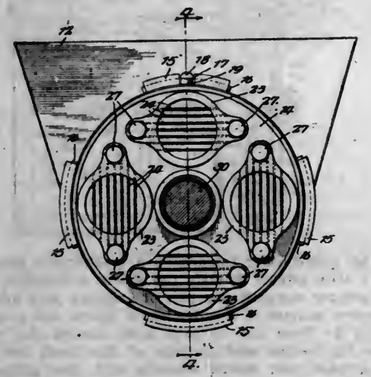
1,458,314. IRONING BOARD. GRIDLEY ADAMS, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,662. 8 Claims. (Cl. 68—10.)

1. In combination with the board having a hinged leg at one end and two legs at the other end of the board pivoted thereto for swinging each about a single pivotal axis in a plane oblique to the plane of swinging of the other of said two legs, means connecting the two legs



for simultaneous swinging, consisting of interengaging lever connectors fulcrumed on the board, and links connecting them respectively with the two legs.

1,458,315. FRUIT-DISINTEGRATING MACHINE. LELAND A. BABCOCK, Chicago, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1919. Serial No. 318,911. 1 Claim. (Cl. 146—11.)

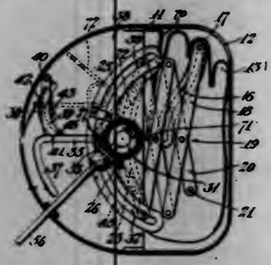


In a cutting device of the class described, a housing having a plurality of openings; a plurality of cutting elements arranged in registration with said openings, each of said cutting elements being a separate and independent unitary structure mounted upon the outer side of said housing and comprising an annular holder and knives mounted in said holder; and means for forcing the material to be cut through said cutting elements.

1,458,316. THREE-WAY SAFETY AUTO SIGNAL. FREDERICK M. BALDWIN, Los Angeles, Calif. Filed July 12, 1921. Serial No. 484,052. 6 Claims. (Cl. 116—40.)

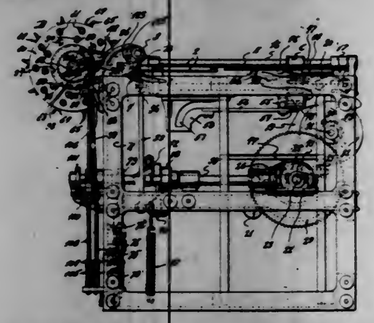
1. In a direction signaling device for automobiles, a casing, a lazy tongs pivotally mounted in said casing, a display member on the outer end of said lazy tongs, a pair of links pivotally connected at one end to the inner end of said lazy tongs, a pin connecting the other end of said links and means engaging said pin arranged to operate said lazy tongs, and means for controlling the direction of movement of said pin whereby the angular posi-

tion of the extended lazy tongs may be varied, said controlling means consisting of a cam plate having a cam slot therein to receive said pin, said slot having branch



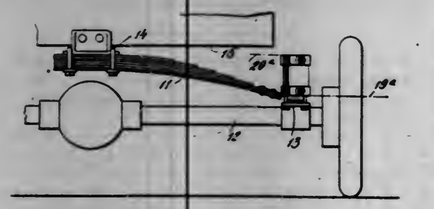
slots, and means controlling the entry of said pin to one of said branch slots.

1,458,317. SHEET ACCUMULATOR. DANIEL BELCHER, Webster Groves, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a Corporation of Missouri. Filed May 9, 1921. Serial No. 467,848. 39 Claims. (Cl. 93—93.)



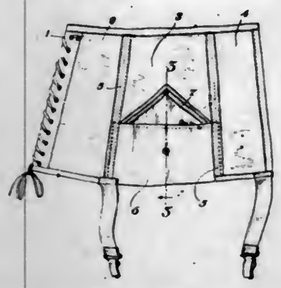
1. An accumulator comprising a sheet-holder provided with a sheet-gripper wherein the sheets accumulate, said sheet-gripper comprising a pair of gripping jaws adapted to receive margins of a collection of sheets and a spring tending to force one of said jaws toward the other, means for feeding said margins of the sheets into said sheet-gripper, and means whereby said sheet-gripper is shifted in response to a predetermined number of sheet-feeding operations.

1,458,318. SPRING SUSPENSION. HARVEY W. BELL, Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed Dec. 24, 1920. Serial No. 432,943. 29 Claims. (Cl. 267—54.)



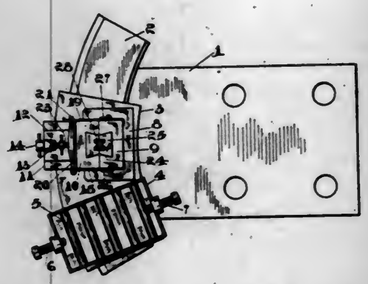
1. In spring suspensions for vehicles, the combination with substantially longitudinal side springs and a substantially transverse spring at the ends of the longitudinal springs, of suspension links connected between the ends of the transverse and longitudinal springs and comprising continuous webs disposed substantially at right angles to plane bisecting the angles between the transverse and longitudinal springs.

1,458,319. CORSET. SARAH E. BEMIS, Philadelphia, Pa. Filed June 28, 1922. Serial No. 571,374. 2 Claims. (Cl. 2—73.)



2. A corset composed of panels of flexible material, stiffening ribs seamed along the edges of the panels, one of said panels being extended below the body of the corset and folded inwardly upon itself to form a pocket on the inner wall of the corset, the side edges of the folded portion being stitched by the seams which hold the stiffening ribs, and a waterproof lining for said pocket.

1,458,320. APPARATUS FOR DRESSING BITS AND RIMMERS. ROLAND ROBERT BLACKWELL, Petrolia, Ontario, Canada. Filed May 3, 1922. Serial No. 558,237. 17 Claims. (Cl. 76—5.)

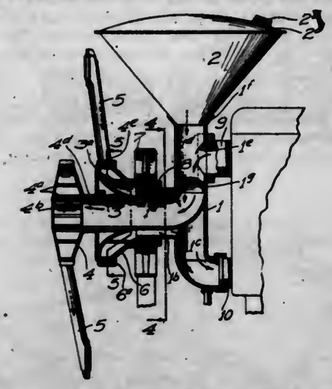


1. In apparatus for dressing bits, the combination of a longitudinally divided mold, one part being provided with an integral extension at its lower end on which the other part is rectilinearly slidable to open and close the mold; an impact receiving member; and a guide for guiding the mold into contact with said member.

1,458,321. WATER-COOLING APPARATUS FOR GAS ENGINES. SAMUEL BOWMAN, Redondo Beach, Calif. Filed Mar. 1, 1920. Serial No. 362,406. 5 Claims. (Cl. 123—174.)

1. A water cooling apparatus for gas engines, including a combined support and water conductor communicating with the water inlet and outlet of the gas engine, a water reservoir communicating with said conductor, a fan revolubly mounted on said support and

conductor provided with hollow blades divided in the middle and communicating with said conductors forming



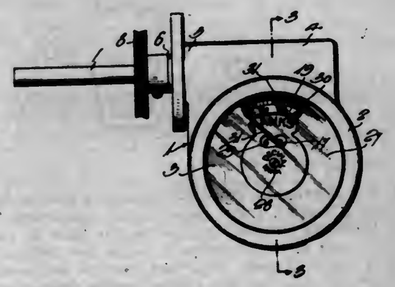
a continuous water circulating medium, a centrifugal pump member secured to a portion of said conductor forming a pump with said fan.

1,458,322. PROCESS OF MANUFACTURING ABRASIVE DISKS. SAMUEL M. BULLOCK, Chicago, and HARRY S. LLOYD, Oak Park, Ill. Original application filed Sept. 10, 1915, Serial No. 49,983, Patent No. 1,311,550, dated July 29, 1919. Divided and this application filed July 15, 1919. Serial No. 310,967. 3 Claims. (Cl. 51—278.)



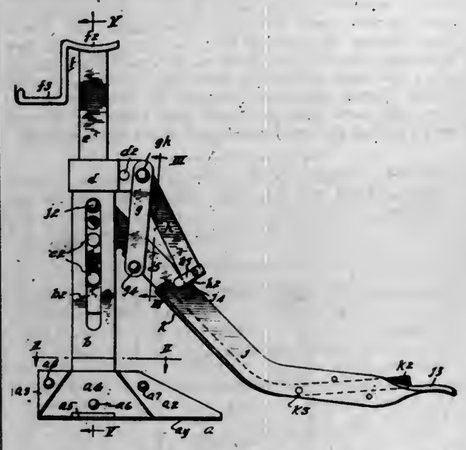
1. The process of forming an abrasive disk comprising wetting a fabric disk and then applying thereto a mixture of abrasive, calcined magnesite and magnesium chloride solution.

1,458,323. HANK REGISTER. JAMES L. BURNHAM, Saco, Me. Filed Mar. 30, 1922. Serial No. 548,031. 5 Claims. (Cl. 235—103.)



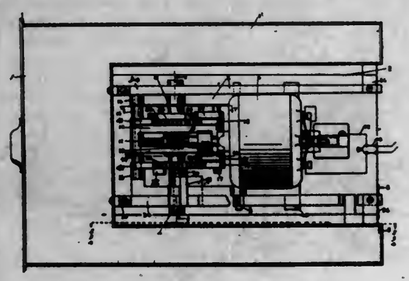
1. A counter of the character described comprising a casing, a stationary plate in the casing provided with inner and outer sight openings, an element rotatably mounted in the casing and carrying a dial viewed through the inner sight opening, a drive shaft for said rotatable element, a gear disk rigid in the casing and positioned about the axis of said rotatable element, a second rotatable element rotatably carried by the first about its axis and carrying a dial positioned concentric to the first dial and viewed through the outer sight opening of said plate, and means carried by the first rotatable element and actuated by the rigid gear disk for imparting rotary motion to the second rotatable element during rotation of the first.

1,458,324. LIFTING JACK. HENRY H. BURNS, Battle Creek, Mich. Filed Sept. 28, 1921. Serial No. 503,719. 6 Claims. (Cl. 254—117.)



1. In an apparatus of the kind described, the combination of the supporting guide *b*, a band *d* engaging around the upper end of said guide and provided with an outwardly extending lug, a link *g* pivoted to said lug and depending therefrom, a lifting bar adapted to reciprocate in said guide, a lever *j* pivotally supported upon said link and engaging said lifting bar to actuate the same, said lever being provided with a notch at its upper end, a pawl *h* pivoted to said lug at one end and at the other end resting upon said lever so as to engage in said notch.

1,458,325. TIME-CONTROLLED LOCKING MECHANISM. EDWIN M. CLARK, Clarkston, Mich. Filed July 23, 1921. Serial No. 486,962. 9 Claims. (Cl. 70—26.)



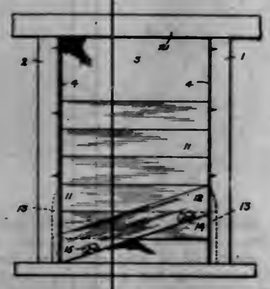
1. In a device of the character described, the combination with a drawer, of mechanism for closing said drawer, a motor arranged to actuate said mechanism, controlling means for said motor, remote therefrom, a locking member for said drawer automatically engaging the same when closed, and a slow-motion release mechanism for said member driven by said motor.

1,458,326. HAIR-CLIPPER BLADE. CLYDE O. CONNOR, Wichita, Kans. Filed May 2, 1921. Serial No. 466,028. 1 Claim. (Cl. 30—1.)



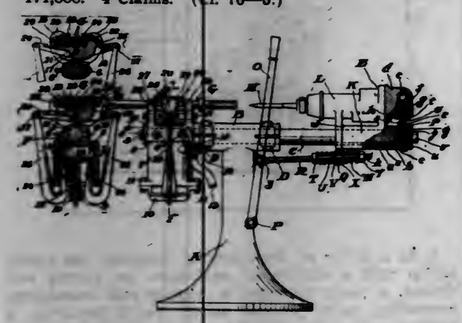
In combination in a hair cutting device, a lower blade having bearded cutting teeth and an upper blade slidably mounted and controlled thereupon; said lower blade having its base portion convexly curved in two directions, namely from front to back and from side to side; the upper portion of said blade having a central recess therein extending towards the convexly curved base and posts rigid with said base extending through said recessed portion towards the upper blade element.

1,458,327. GRAIN DOOR. WILLIAM DAHLEN, Duluth, Minn. Filed Feb. 21, 1922. Serial No. 538,206. 4 Claims. (Cl. 20—30.)



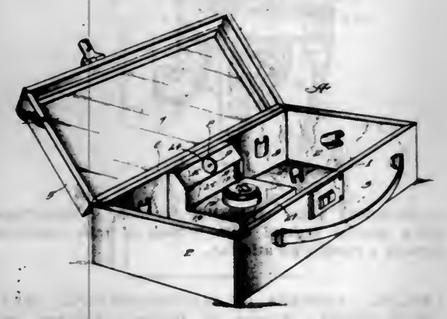
1. The combination with a car door of the character described having a removable upper portion spaced above the floor of the car, of a single vertically removable board externally of the upper portion acting as a closure to the space below the upper portion and vertically elongated recesses at either side of the door opening in which the ends of the single board are engaged, said board being removable therefrom only by raising one end foremost.

1,458,328. PEDESTAL PUNCH. JESSE DITSON and ARTHUR E. PETERS, Littleton, Colo., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 4, 1921. Serial No. 474,888. 4 Claims. (Cl. 76—5.)



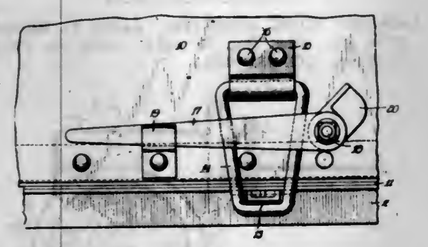
1. A machine for punching hollow drill steels and similar articles, comprising a support, a guide bar carried by said support, punching mechanism slidable upon said guide bar, a vise head adapted to be sleeved over said guide bar, jaw levers pivoted on said vise head, a cylinder and fluid actuated piston for said vise head, lift levers operatively connecting said piston and the jaw levers, and means for controlling the operation of said piston.

1,458,329. HAND BAG. CLIFFORD SANFORD ELFELT, Los Angeles, Calif., assignor to Esther Elfelt and David Weber, both of Chicago, Ill. Filed May 16, 1921. Serial No. 470,134. 4 Claims. (Cl. 240—8.4.)



4. In a device of the character described, the combination with a compartment having an inside wall and a mirror hinged thereto, of means for mounting an electric lamp adjacent to the mirror with its lens facing angularly and away from the mirror, means for supplying current to the lamp, a switch for controlling the current, said mounting means comprising an inclined member secured to a wall of the compartment, and a reflector associated with the lamp.

1,458,330. DOOR LOCKING AND RELEASING MECHANISM. FREDERICK S. GALLAGHER, Yonkers, N. Y., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 25, 1921. Serial No. 455,483. 10 Claims. (Cl. 105—308.)



1. In a railway car, the combination of a door having a projecting member, a link movable into engagement with said projecting member for holding the door in closed position, and means including a handle for locking said holding means in door supporting position and a wedge member for releasing said holding means from supporting position.

1,458,331. DRAG LINK. HARRY B. GARMAN, Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 14, 1921. Serial No. 522,374. 4 Claims. (Cl. 287—90.)

1. A drag link comprising a tubular member having a slotted end socket; an arm extending through the slot and having a ball end journaled in said socket; a bearing block in said socket engageable with said ball on one



side thereof a spring for yieldingly pressing said bearing block into engagement with said ball and a grease retaining case enclosing said block and spring.

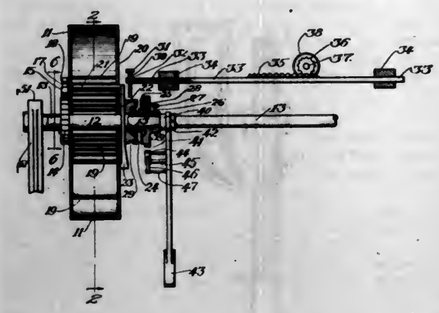
1,458,332. DRAG LINK. HARRY B. GARMAN, Detroit, Mich., assignor to Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 14, 1921. Serial No. 522,375. 2 Claims. (Cl. 287—90.)



1. The combination with a drag link having a tubular ball receiving socket in the end thereof; of an actuating arm having a ball end seated in said socket; a plug adapted to close the outer end of said socket; a grease cup carried by said plug; a bearing block fitting in said socket and engageable with the side of the ball toward the end of the socket, said bearing block having a grease duct therethrough; a coil spring interposed between said plug and bearing block; and a grease conduit extending from said grease cup to said bearing black.

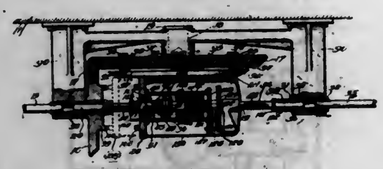
1,458,333. SPRING-WINDING MECHANISM. CHARLES H. GILL, Chicago, Ill., assignor of one five-thousandth to Louis J. Bergamo, one five-thousandth to Andrew C. Arentz, one hundred five-thousandths to Mack H. Higginbottom, one five-thousandth to Edward Dossmann, one five-thousandth to Carolina Dossmann, and one five-thousandth to Henry Saxe, all of Chicago, Ill. Filed Mar. 28, 1921, Serial No. 456,194. Renewed Dec. 6, 1922. 15 Claims. (Cl. 185—43.)

15. In spring winding mechanism, the combination of a spring barrel, a rotatable shaft, a sleeve rotatably mounted upon said shaft and rotatably mounting the said spring barrel, a coil spring having its inner end secured to the said sleeve and its outer end secured to the said spring barrel, means adapted to prevent the said sleeve from rotating in a non-winding direction, a clutch member splined upon the said sleeve, a second clutch member adapted to be freely rotatable upon the said shaft but having no longitudinal freedom of movement thereon, resilient means normally urging the two said clutch members apart, a ratchet wheel secured to the said second clutch member and rotatable upon the said shaft therewith, a cam member movable into operative position by the unwinding of the said coil spring beyond a given degree and out of operative position by the winding of the said coil spring beyond a given degree and adapted to force the said first named clutch member into mesh with the said second clutch member when in operative position, a pendulum adapted to swing upon the said rotatable shaft but not rotatable with said shaft, a pawl carried by said pendulum and adapted to engage the said



ratchet wheel secured to the said second clutch member, and means for holding the said pawl out of engagement with the said ratchet wheel when desired.

1,458,334. SLIPPAGE-GOVERNED TRANSMISSION MECHANISM. CHARLES H. GILL, Chicago, Ill., assignor of one five-thousandth to Louis J. Bergamo, one five-thousandth to Andrew C. Arentz, one hundred five-thousandths to Mack H. Higginbottom, one five-thousandth to Edward Dossmann, one five-thousandth to Carolina Dossmann, and one five-thousandth to Henry Saxe, all of Chicago, Ill. Filed Jan. 25, 1922, Serial No. 531,643. Renewed Dec. 6, 1922. 36 Claims. (Cl. 74—26.)

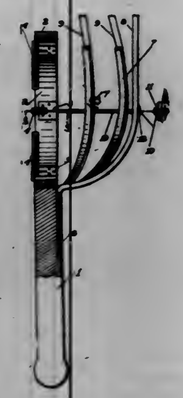


1. In transmission mechanism, the combination of a driving shaft, a driven shaft, speed changing mechanism operatively interposed between said shafts and including a member mounted for free rotation upon said driven shaft, an element mounted upon said driven shaft to rotate said driven shaft therewith and yieldably engaging said member, and automatic means carried entirely by said driven shaft and controlled by the degree of yield in the engagement of said element with said member, above or below a given degree of yield, for so changing the relationship of the said member to the balance of the said speed changing mechanism as to vary the ratio of the rotary speed of the said driven shaft to the speed of the said driving shaft inversely to variations in the degree of resistance offered to the rotation of the said driven shaft.

1,458,335. BALL CATCHING AND THROWING RACKET. ALEXANDER GLINCHIKOFF, Stockton, Calif. Filed July 20, 1921. Serial No. 486,030. 2 Claims. (Cl. 46—59.)

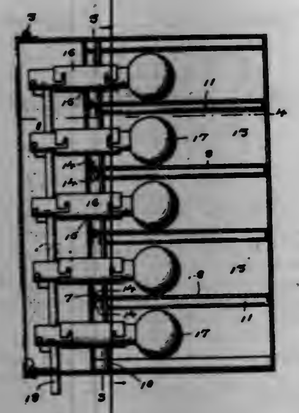
1. A ball catching and throwing racket comprising a handle, a ball enclosing structure fixed thereon, an intake opening for the enclosure whereby to permit a ball to enter the same, an outlet from said enclosure positioned in a plane at right angles to the plane of the intake,

fingers projecting into the intake opening and adapted to yield only in the direction of the enclosure, and springs



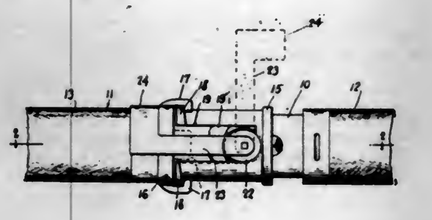
spaced about the outlet and projecting upwardly therefrom, these springs outlining an opening normally smaller than a ball being used.

1,458,336. ILLUMINATED AUTOMOBILE SIGNAL. SIDNEY GEORGE GRANDJEAN and JESSE JOHN DARCEY, Braithwaite, La. Filed July 2, 1921. Serial No. 482,241. 1 Claim. (Cl. 177—329.)



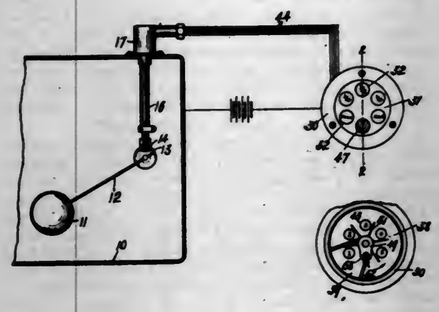
An automobile signal comprising a casing body having a wall and signal openings therein, a door complementary to said body, a pane of glass within the casing body and against the wall in which the signal openings are provided, partitions in the casing body in spaced relation to each other and having lateral edge flanges of concavo-convex form in section with their concave sides opposed to said glass, said partitions forming compartments one to each signal opening, packing strips held in said flanges against the pane of glass to prevent rattling and the passage of light, means interposed between opposite walls of the casing body and extending at right angles to the partitions and engaging the partitions to assist in maintaining the latter in position, a removable panel disposed in the casing body in spaced relation to said door and having means detachably engaging the ends of the partitions to hold the panel to the partitions and also having apertures, and incandescent lamp sockets arranged in the said apertures of the panel and adapted to carry bulbs one for each compartment formed by the said partitions.

1,458,337. COUPLING. THOMAS J. GRIER, West Palm Beach, Fla. Filed Jan. 24, 1920, Serial No. 353,656. Renewed Apr. 9, 1923. 1 Claim. (Cl. 285—171.)



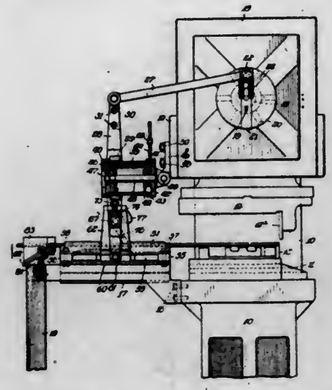
A coupling having terminally abutting members, interlocking elements carried by said members consisting of a sleeve mounted upon one member and shouldered arms mounted upon the remaining member, cam faced flanges provided on said sleeve, said arms being in engagement with said flanges by a transverse revoluble movement of one of said elements relative to the other, said sleeve being longitudinally slotted to receive the shouldered extremities of said arms, cams arranged to operate in said slots, a yoke straddling said coupling member at a point beyond the head forming the body portion of the interlocking element, and yoke levers connecting the cams for swinging movement relative to the coupling members.

1,458,338. HEIGHT INDICATOR FOR LIQUIDS. RALPH GRIMSHAW and CARL JOHN WEIS, Clyde, Ohio. Filed Oct. 9, 1919. Serial No. 329,553. 9 Claims. (Cl. 177—35.)



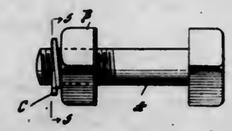
6. A sectional conductor plate having its sections insulatingly spaced, a plurality of signal circuits having signal devices connected to said conductor sections, some of said circuits including both conductor sections, a switch operable to selectively close breaks in each of said circuits, and means operable to electrically connect the conductor sections.

1,458,339. AUTOMATIC FEEDING DEVICE. RANDOLPH B. HANCOCK, Gary, Ind. Filed Feb. 20, 1922. Serial No. 537,885. 8 Claims. (Cl. 164—48.)



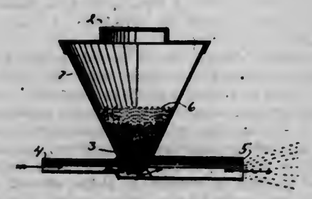
1. In combination, a feeding member, a resiliently positioned fulcrum member and means for operatively connecting said member to the operating parts of a machine.

1,458,340. NUT LOCK. ALVIN O. HENDERSHOTT, Keokuk, Iowa. Filed Nov. 4, 1921. Serial No. 512,841. 1 Claim. (Cl. 151—21.)



A nut lock comprising a relatively thin blank having a bolt-receiving bore, the edge of the lock in said bore being substantially helical and provided with a single thread to cooperate with an engaged screw thread, said blank being flexible whereby said thread may conform to bolt threads varying in thickness, the blank being split on a line from its bore to its outer edge, and said thread being cut away adjacent the split to provide a plurality of teeth to engage bolt threads and resist retrograde movement of the lock.

1,458,341. POWDER SPRAYER. HENRY E. HERBERT, Martin, Mich., assignor of one-half to Jane M. Herbert, Martin, Mich. Filed Oct. 1, 1921. Serial No. 504,723. 1 Claim. (Cl. 43—147.)



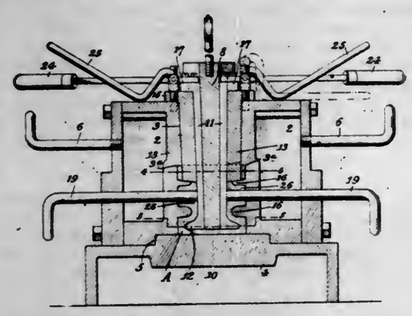
In an implement for spraying powder, a conical containing chamber having a close fitting cover thereon, said chamber opening at right angles into a large outflow pipe, a small air inflow pipe entering the end of the outflow pipe longitudinally thereof near the line of connection between the lower end of the container with the end of the outflow pipe; in combination with a screen extending well down into the outflow pipe and so covering the end of the container within the outflow pipe as to form a narrow crescent formed passage way between the screen and the wall of the outflow pipe for the passage of a part of the air current below the screen.

1,458,342. PAPER-MAKER'S FELT. EDMUND N. HUYCK, Albany, N. Y., assignor to F. C. Huyck & Sons, Albany, N. Y., a Corporation. Filed Sept. 12, 1921. Serial No. 500,182. 2 Claims. (Cl. 92—49.)

1. Endless papermakers' felts having a guide line formed thereon by the application of a suitable dye after the completion of the fulling or felting thereof.

2. Endless papermakers' felts having a guide line formed thereon after the completion of the fulling or felting thereof, by the application of a dye which will have no appreciable effect upon said felt other than to color the portion thereof to which it is applied.

1,458,343. METAL MOLD FOR PISTON CASTINGS. GUSTAV R. KELM, New York, N. Y., assignor to W. M. Levett and Walker M. Levett Co., New York, N. Y., a Corporation of New York. Filed Aug. 24, 1922. Serial No. 584,001. 3 Claims. (Cl. 22—170.)

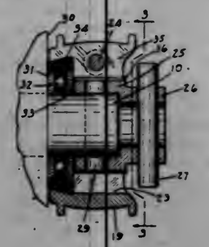


1. In permanent molds for casting skirted pistons, a combination of a support, a pair of permanent mold members mounted on said support and movable bodily upon said support toward and away from each other, said mold members being formed with complementary curved walls comprising outer walls of a mold cavity for casting a skirted piston therein, a permanent sectional core comprising a plurality of sections supported from the top of the mold member and forming the interior side walls thereof, and levers attached to certain of such core sections co-operating with the top of the mold member to reciprocate the last mentioned core sections into and out of casting position.

1,458,344. ADJUSTABLE THRUST-BEARING ATTACHMENT FOR CRANK SHAFTS. ELBERT B. KIMES and JOHN H. CARSON, Fairmount, Ind., assignors of one-fourth to Oliver P. Buller and one-fourth to Robert L. Kimes, both of Fairmount, Ind. Filed Mar. 11, 1922. Serial No. 543,069. 2 Claims. (Cl. 64—49.)

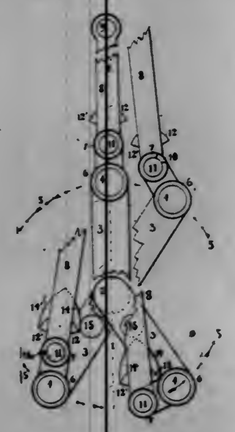
1. The combination with a crank shaft for an internal combustion engine and a main bearing therefor, of means for providing an end thrust bearing and taking up the end play therein, comprising an externally threaded member adapted to fit over the end of said crank shaft, said member having a plurality of longitudinally extending peripheral slots therein, means for securing said member

on said shaft, an internally threaded split fan pulley adapted to screw thereon, a thrust bearing positioned between said pulley and the main bearing, a bolt adapted to extend through the split ends of said last mentioned



member for securing them together, and a key adapted to be positioned between said split ends so as to extend into said peripheral groove for locking said pulley on said member after the end play of said shaft is taken up by the adjustment of the pulley thereon.

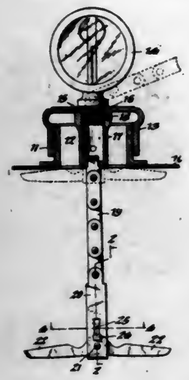
1,458,345. LINK-JOINT-CONNECTING ROD. JOHN KONAR, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,562. 9 Claims. (Cl. 74—38.)



1. With a crank movement having a suitably guided workhead, a rotative crankshaft provided with a crankpin, a link having one of its ends rotatably fitted on said crankpin, said link having near its other end a linkjoint to engage therewith the crank end of a connecting rod, a connecting rod linked with its crankend to said linkjoint and having at its other end means to engage said workhead, whereby during speedy dead center transitions of the crankpin said linkjoint is free to yield and to release said connecting rod and a thereto adapted workhead for extending by combined inertia their travel beyond the radius of the crankpin and whereby said linkjoint also affords flexibility to said connecting rod and therewith lost motion and latitude to said crankshaft when an undue obstacle is met by said workhead.

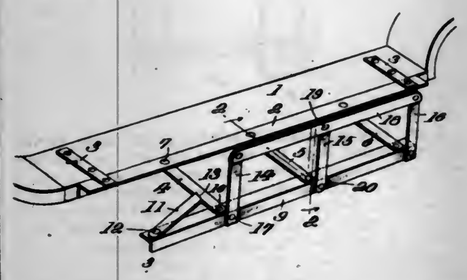
1,458,346. ATTACHMENT FOR RADIATOR CAPS AND THE LIKE. CHARLES J. KRENTZ and GEORGE W. KRENTZ, Buffalo, N. Y. Filed July 17, 1922. Serial No. 575,671. 4 Claims. (Cl. 220—24.)

1. An attachment for a closure cap of the character described, comprising a supporting member arranged to be suspended from the cap, a foldable anchoring device mounted on said member, means at the lower end of said member for preventing said anchoring device from swing-



ing below its extended operative position, and a floating locking bolt guided on said member and arranged to interlock with the anchoring device in its unfolded operative position.

1,458,347. LUGGAGE CARRIER FOR AUTOMOBILES. MILFARD J. LANTIER, Alexandria Bay, N. Y. Filed Mar. 3, 1922. Serial No. 540,674. 15 Claims. (Cl. 224—29.)

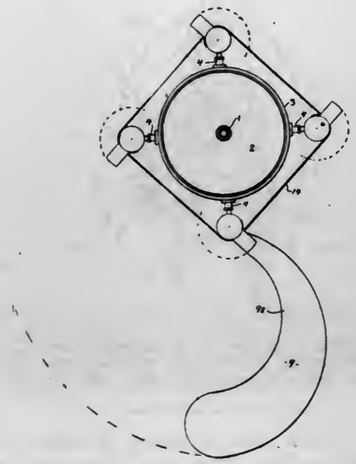


2. A luggage carrier for automobiles or the like comprising a collapsible horizontal section, and a collapsible vertical section attached thereto, said sections being collapsible indeepndently of one another.

1,458,348. DISAPPEARING ELECTRIC-FAN MECHANISM. CLARENCE W. LE VELLE, Wichita, Kans. Filed July 31, 1922. Serial No. 578,763. 4 Claims. (Cl. 230—1.)

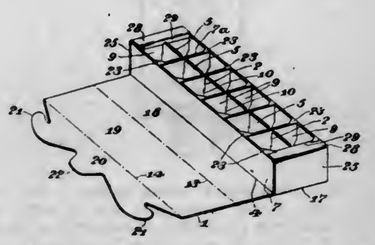
4. In a motor driven fan, a motor having a vertical axis, a rotatable ring concentric with the axis; a plurality of bracket elements radially disposed from said ring; each bracket member carrying an adjustable stop member, a cap member pivotally mounted to move on elements carried by said bracket member, an arm rigid with said cap member, means on the cap for limiting the amount of pivoted movement in either direction by its contact at spaced pivoted positions with said stop element, a fan blade on said arm; a cable leading to a binding post on said cap element, thence backwardly to another post on said cap element, thence outwardly to a similar connection in turn with each other cap ele-

ment and to a connection from the point of beginning; and whereby any pivoted movement of one fan blade element is simultaneously transmitted to each and every



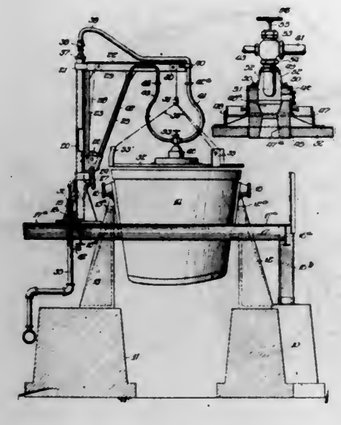
other fan blade element so that a unified and controlled pivoted movement of all fan blades is had for the purposes of the invention.

1,458,349. COLLAPSIBLE BOX AND METHOD OF MANUFACTURING SAME. HENRY LEVINE, Philadelphia, Pa. Filed June 7, 1921. Serial No. 475,647. 1 Claim. (Cl. 229—29.)



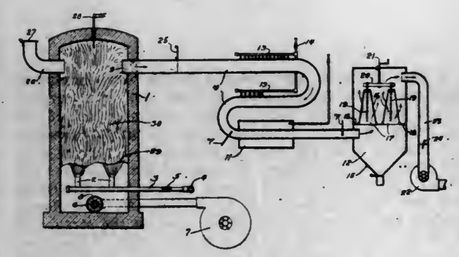
A box of the character described, comprising side walls and a series of transversely extending partitions having integral connection at their opposite ends with the said side walls, the said partitions having notches in their lower edges, a longitudinally extending partition situated between and in parallel relation with the said side walls, said partition having notches in its upper edge, the said notches being adapted to be interlocked with the notches in the said first mentioned partitnons, and the bottom of said box having its opposite ends extended, which ends are folded up against the opposite ends of the longitudinally extending partition and being folded inwardly and interlocked with the outermost notches of the said partition.

1,458,350. LADLE-DRYING APPARATUS. GEORGE R. MCDERMOTT, Chicago, Ill. Filed Aug. 25, 1920. Serial No. 405,984. 4 Claims. (Cl. 263—5.)



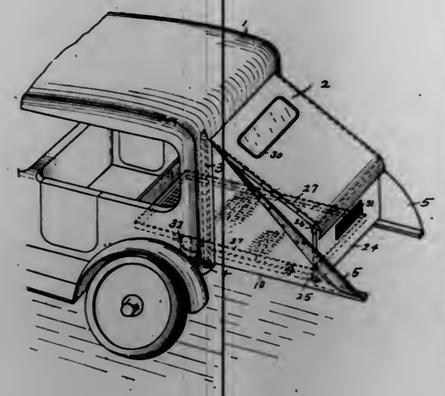
1. In a ladle drying apparatus, the combination of a burner, means for supplying fuel to said burner, a cover through which said burner extends and means for suspending the cover above a ladle, the marginal edges of the said cover conforming in shape substantially to the form of the opening in said ladle, the said cover plate being held out of contact with the ladle during the operation of the burner.

1,458,351. METHOD AND APPARATUS FOR PRODUCING CARBON. CHAUNCEY MATLOCK, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La., a Corporation of Delaware. Filed Jan. 5, 1921. Serial No. 435,071. 14 Claims. (Cl. 134—60.)



5. In an apparatus for separating and recovering carbon black from a hydrocarbon, the combination of a furnace arranged to permit a free unobstructed flow of burning gases together with burners adapted to receive and partially burn the hydrocarbon by the supply thereto of air in quantities insufficient for complete combustion, means for supplying the hydrocarbon to said burners, means for positively furnishing to said burners and said furnace predetermined quantities of air, and a collecting system wherein the resultant products are passed at a comparatively high velocity.

1,458,352. VEHICLE BODY. OTTO H. MENNING, Houston, Tex. Filed Oct. 3, 1921. Serial No. 504,848. 7 Claims. (Cl. 296—23.)



1. The combination with a vehicle body, of an extension frame carried thereby, a seat above the frame, a foldable mattress support folded under said seat and adapted to be unfolded onto said frame when the frame is in extended position, and means for projecting said frame into extended position relative to the body.

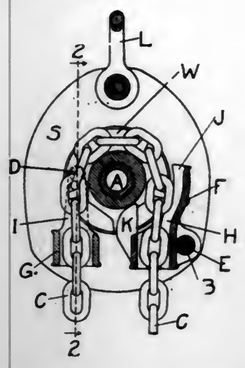
1,458,353. HOSE SUPPORTER. BENJAMIN MORSE, New York, N. Y. Filed Aug. 2, 1921. Serial No. 489,293. 1 Claim. (Cl. 241—6.)



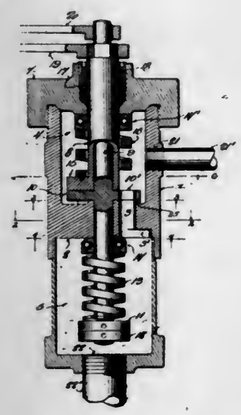
A hose supporter comprising a flexible strap having at each end means for gripping the hose, and of an overall length substantially equal to the circumference of the leg below the knee, whereby when the gripping means are engaged with the hose at each side of the leg with the strap extending across the rear of the leg at the top of the calf, the strap will extend in open loop formation and will be supported in such position and held closely against the leg by the pull of the hose on the strap, and a reinforcing member arranged transversely of the strap at the center thereof, said member being of semi-rigid material.

1,458,354. GUIDE FOR HOISTING WHEELS. ALBERT H. NELLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed June 30, 1922. Serial No. 571,970. 3 Claims. (Cl. 254—167.)

1. In guides for hoisting wheels in which an elevating chain is used, a frame for the wheel having opposite sides, a straitening member having an opening in its body to fit the contour of the chain, and through which the elevating portion of the chain is passed, whereby in passing, it will be straitened, if twisted, before being drawn on to the wheel, and upstanding approximately parallel arms on opposite sides of the straitening member, said arms being pivoted in opposite sides of the frame approximately in line with the transverse center of the chain where it comes in contact with the wheel.



1,458,355. VALVE. KARL O. NELSON, Milwaukee, Wis. Filed Feb. 14, 1921. Serial No. 444,925. 4 Claims. (Cl. 138—16.)



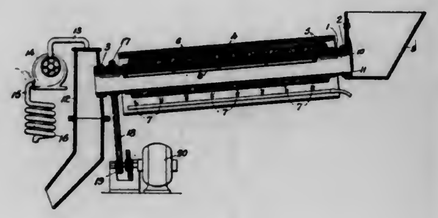
1. A valve comprising a casing having a fluid pressure inlet port, a fluid return port and an outlet port, means for selectively providing a communication between any or all of said ports, said means comprising a valve plate provided with openings adapted to selectively form communications between the desired ports, and a cut-off for controlling said openings, and yieldable means adapted to hold the cut off upon its seat against a predetermined pressure.

1,458,356. RECEPTACLE FOR HOLDING CIGARETTES. WILLIAM D. O'KANE, Springfield, Ohio. Filed Aug. 11, 1922. Serial No. 581,089. 4 Claims. (Cl. 220—18.)

1. A new article of manufacture consisting of a receptacle having an entrance and exit opening and supporting wall to present cigarettes with their ends adjacent to said opening in a predetermined position, and a rear guiding and deflecting wall to insure the placing of cigarettes in proper position, said opening being sufficiently large for the introduction of a package of cigarettes there through and the introduction of the fingers of the operator for the extraction of cigarettes therefrom.



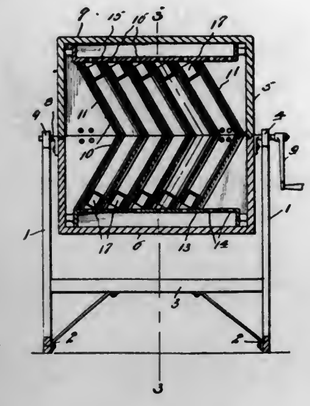
1,458,357. APPARATUS FOR EXTRACTING VOLATILE MATTER. CARL POSTEL, New York, N. Y., assignor to American Shale Reduction Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 12, 1922. Serial No. 528,870. 1 Claim. (Cl. 196—20.)



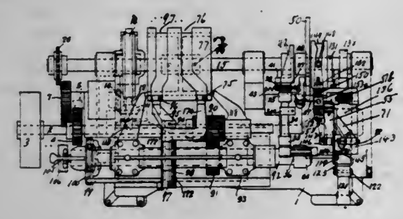
In an apparatus for extracting volatiles from oil bearing shale and like material the combination with a retort arranged to rotate on an inclined longitudinal axis and having openings at its ends for admission and discharge of material to be treated, of a closed jacket enclosing the main portion of the retort and carried thereby containing molten metal, means for applying heat to the exterior of the jacket to maintain the metal in molten condition, means for rotating the retort and jacket to cause the heat applied to the jacket to be distributed evenly to all parts of the retort within the jacket, and means for drawing off from the retort the vapors produced therein.

1,458,358. WASHING MACHINE. EDWARD J. RAPPS, Phoenix, Ariz. Filed July 8, 1922. Serial No. 573,568. 3 Claims. (Cl. 68—18.)

3. A washing machine comprising a receptacle formed with top and bottom sections, trunnions on the bottom section alining axially with each other, bearings supporting said trunnions whereby said receptacle may be rotated, pairs of guide members secured to the opposite side walls of each section, the pairs on one side wall alining respectively with the pairs of guides on the other side wall, washboards mounted in said guides, the washboards in one section being inclined in a direction reverse to the direction of the washboards in the other section, said washboards defining pockets to receive the clothes to be washed and trough-like elements in said pockets adapted in the rotation of the receptacle to slide within the pockets to facilitate the washing of the clothes, a false bottom in said lower section closing the bottom ends of the pockets and a false top in the upper section closing the upper ends of the pockets, said false bottom and top being perforated, whereby the washing compound may circulate freely in the rotation of the receptacle, and means carried by said guides to hold said washboards in place.



1,458,359. BOLT MACHINE. MICHAEL J. RILEY, East Cleveland, Ohio. Filed Sept. 7, 1920. Serial No. 408,550. 63 Claims. (Cl. 10—19.)

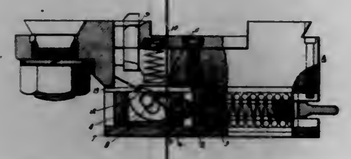


1. In the machine of the class described, a head, a spindle in the head, means for reciprocating the spindle in the head, a stop in the head to limit the spindle movement, a collet in the spindle, picker fingers for placing a headed blank in alignment with the spindle as it reciprocates, a spring supported plunger carried by the fingers to determine the position of the blank in the collet, a kick out device adjacent the fingers, means for operating the collet at one end of the spindle movement so as to grasp the blank by its shank, a spring within the collet, a plunger compressing the spring within the collet when the spindle reciprocates, a roller rest, means for advancing the roller rest to engage the blank below its head while it is held in the collet, means for rotating the spindle carrying the blank, a tool slide, tools on the tool slide, means for moving the tools transversely to the axis of the blank in the collet, and means for moving the tools to cut under the head of the blank.

1,458,360. TRIGGER MOTOR. HERBERT O. RUSSELL, Los Angeles, Calif., and LAURENCE J. SCHEBEN, Dayton, Ohio. Filed June 9, 1922. Serial No. 567,084. 5 Claims. (Cl. 89—27.)

1. In a trigger motor for machine guns, the combination of a plunger, a plunger operating member, a trigger

operating slide movable in a path at an angle to the plunger, and a floating cam actuated by the plunger



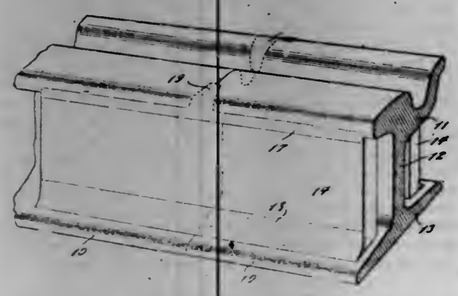
and operating with a thrust on the trigger operating slide.

1,458,361. ROTARY PUMP. WILLIAM L. RUTTLEDGE, Detroit, Mich., assignor to Roto Pump Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed Oct. 11, 1920. Serial No. 416,129. 4 Claims. (Cl. 103—140.)



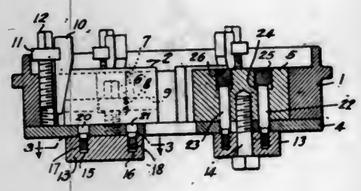
4. In a rotary pump, the combination with a casing including a cylinder, of a piston therein, a valve upon said piston engageable with the inner wall of said cylinder, said wall comprising an arc of approximately 60°, and a pair of equal arcs of approximately 150° connecting tangentially into said first-mentioned arc at opposite ends thereof, said first-mentioned arc having a radius substantially equal to that of said piston, and each of said pair of arcs having a radius greater than that of said first-mentioned arc but within approximately 125 per cent of the radius of said piston.

1,458,362. WELDED RAIL JOINT. ELY M. T. RYDER, Yonkers, N. Y. Filed May 23, 1922. Serial No. 563,000. 8 Claims. (Cl. 238—164.)



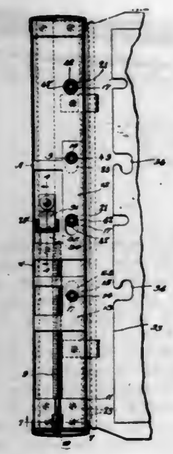
1. A rail joint comprising alined rails, a joint plate fitting between the fishing surfaces of the adjacent ends of the respective rails and welded thereto, and a supplemental weld formed between and directly joining the ends of the respective rails to each other and to the top of the joint plate across the entire width thereof.

1,458,363. BLADE-ADJUSTING MECHANISM FOR CUTTER HEADS. CHARLES L. SAVINO, Lima, Ohio, assignor to Walter H. Foster, New York, N. Y. Filed Apr. 21, 1921. Serial No. 463,293. 4 Claims. (Cl. 82—35.)



1. A cutter head carrying blades, means for varying the angularity of the blades and additional means for adjusting the blades radially.

1,458,364. SEPARABLE LOOSE-LEAF LEDGER. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Association. Filed Apr. 2, 1921. Serial No. 458,014. 10 Claims. (Cl. 129—8.)

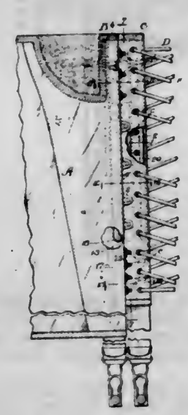


1. In a loose leaf ledger, a pair of separable sections, extensible leaf-engaging posts carried by each section, means to lock the sections together, means for automatically extending the posts when the sections are separated and means on each section to receive and guide the outer ends of the post extensions of the complementary section when the sections are in closed relation and during locking thereof.

7. In a loose leaf binder, a pair of separable sections, means to lock the sections together, means to lock the leaves against accidental withdrawal, means carried by the locking means of the leaves to actuate the locking means of the sections and means for effecting positive operation of said locking means of the leaves.

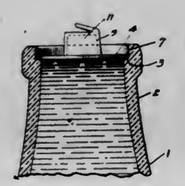
10. In a loose leaf ledger, a pair of separable sections, leaf-engaging posts carried by each section, means having one end of the posts of one section affixed thereto to move the latter, and means to actuate the first-named means to move the latter posts into locking engagement with the leaves.

1,458,365. CORSET. CHARLES H. SCHOPBACH, Aurora, Ill., assignor to International Corset Company, Aurora, Ill., a Corporation of Illinois. Filed Dec. 24, 1920. Serial No. 432,993. 4 Claims. (Cl. 2—74.)



2. An insert for corsets comprising a relatively rigid body portion and a plurality of strips attached to and forming a prolongation of said body portion, said strips being arranged in overlapping relation each to each, and of greater flexibility than said body portion, said body portion being provided with clasp members, and said strips being free of clasp members.

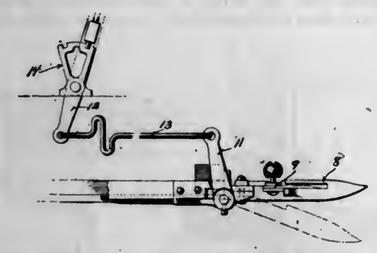
1,458,366. BOTTLE STOPPER. HARRY J. SMALLWOOD, San Francisco, Calif. Filed June 26, 1922. Serial No. 570,787. 1 Claim. (Cl. 215—51.)



A stopper for a bottle having a cylindrical neck and an annular seat in said neck, comprising a disc fitting on said seat, a hole in the disc, a tube rising from the same communicating with the hole and a cap slidably engaging the tube having a flap associated with its top for facilitating its manipulation.

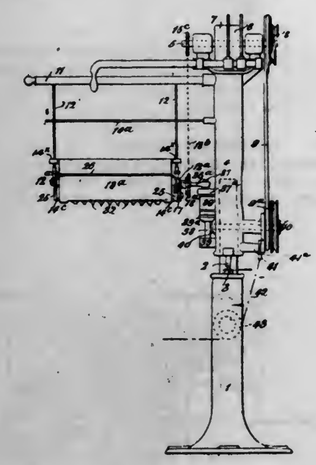
1,458,367. GUARD-TILTING DEVICE FOR GRAIN BINDERS. HENRY SMITH, Lone Rock, Wis. Filed Mar. 18, 1921. Serial No. 453,824. 1 Claim. (Cl. 56—307.)

A harvester having a platform, a finger bar in pivotal union therewith, guard fingers rigidly secured to the finger bar, means for oscillating said finger bar and associated guard fingers whereby they are raised and lowered independent of the platform, a rod having resilient loops therein pivotally connected with said means



and means for locking said rod in a plurality of positions for locking the said finger bar in a plurality of positions.

1,458,368. COATING OR DECORATING APPARATUS. ASBJÖRN SÖNSTHAGEN, West Ealing, London, England. Filed Sept. 27, 1919. Serial No. 326,706. 11 Claims. (Cl. 107—27.)



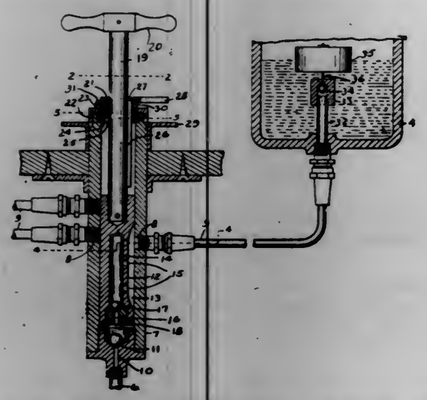
1. A machine for decorating, forming or coating sweetmeats comprising a hopper so supported as to be capable of movement by hand in horizontal directions and a roller located in the hopper for removing the material therefrom, means for securing the discharge of material from the roller, such means controlled by the same hand.

9. A machine for decorating, forming or coating sweetmeats comprising a hopper so supported as to be capable of movement in all horizontal directions, a discharge opening in said hopper, a feed roller adjacent said opening, peripheral grooves in said roller, scrapers engaging said grooves to remove the material therefrom, a handle for moving said hopper said handle also controlling the position of the scrapers to vary the amount removed from the hopper.

1,458,369. LUBRICATING PUMP. WILLIAM J. SPRINGER and ALBERT C. PICARD, Detroit, Mich. Filed June 9, 1921. Serial No. 476,248. 6 Claims. (Cl. 184—28.)

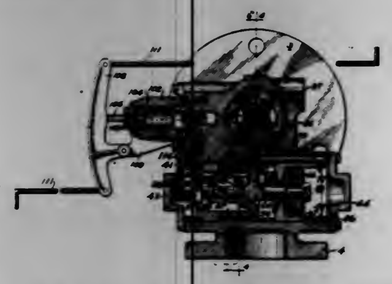
5. A lubricant pump, comprising a casing having an inlet at one end, a plurality of circumferentially spaced lateral discharge ports, a plunger rotatable and reciprocatory in said casing, formed with a passage for con-

necting the pressure chamber of the pump with one of said discharge ports, an actuating rod for the plunger projecting from the casing, a sleeve rotatively mounted upon the casing and constrained to rotate in unison there-



with, and co-acting indicating elements respectively carried by said sleeve and the casing for determining the rotative positions of the plunger bringing the respective discharge ports into use.

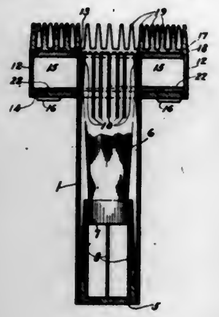
1,458,370. AIR-BRAKE-CONTROL VALVE. THOMAS J. STEINKELLER, Berkeley, Calif., assignor to M. G. Jeffress, San Francisco, Calif. Filed Feb. 14, 1921. Serial No. 444,641. 19 Claims. (Cl 303—78.)



1. An air brake control device comprising means responsive to brake cylinder pressure for closing the brake cylinder exhaust passage and responsive to auxiliary reservoir pressure for opening said exhaust passage, and means responsive to a difference in pressure between the train line and auxiliary reservoir for automatically effecting the application of pressure from the brake cylinder or the auxiliary reservoir to said first named means.

6. An air brake control device comprising a housing formed with a chamber A in communication with the brake cylinder, and a chamber B in communication with the auxiliary reservoir, said housing formed with a passage L for connecting chamber B with the brake cylinder and a passage M for connecting chamber A at one end with the open air and a passage N for connecting chamber A at the opposite end with chamber B and with the open air, a valve in chamber B for controlling said passages, means movable by train line pressure in one direction and auxiliary reservoir pressure in the other direction for operating said valve, a valve in chamber A for controlling passage M, and differential means movable by brake cylinder pressure in one direction and by auxiliary reservoir pressure in the other direction for operating said last named valve.

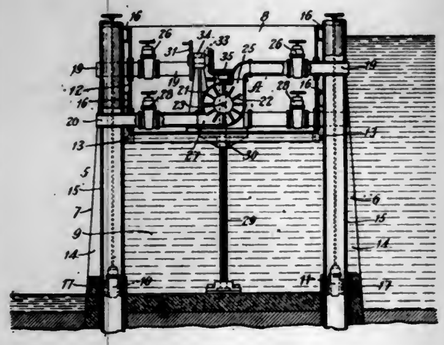
1,458,371. SHAVING AND MASSAGE BRUSH. HARRISON D. STERRICK, Pittsburgh, Pa. Filed Aug. 7, 1920. Serial No. 401,974. 10 Claims. (Cl. 15—110.)



1. The combination with a shaving brush adapted to telescope into its handle, of a reservoir positioned around the forward end of the handle, and means to force shaving soap from the reservoir upon the tip of the brush.

7. The combination of a tubular handle, an exteriorly tapered shaving-brush holder slidably mounted in the handle, rigid internal tapered teeth at the forward end of the handle, and means to force the brush holder into wedged engagement with said teeth.

1,458,372. TIDE MOTOR. JOSEPH TESTA, East Boston, Mass. Filed June 25, 1921. Serial No. 480,291. 3 Claims. (Cl. 61—20.)

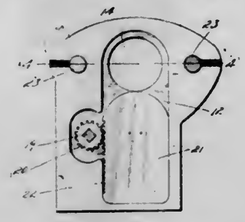


1. A device of the character described having, in combination, a dam provided with a well having water therein and having a plurality of sluice-ways extending through the walls thereof and connecting with said well, a float located in said well, a shaft having screwthreaded engagement with said float, means to rotate said shaft and thereby raise and lower said float, a plurality of gates fast to said float and adapted to prevent water from entering said well through said sluice-ways, a water wheel mounted upon said float, means to conduct water from one side of said dam to said water wheel to rotate the same and means to discharge said water from said water wheel at the other side of said dam.

1,458,373. INTAKE LOCK. ALLIE WILLMAN, New Haven, Conn., assignor of one-half to Peter J. Torello, New Haven, Conn. Filed May 8, 1922. Serial No. 559,315. 4 Claims. (Cl. 251—6.)

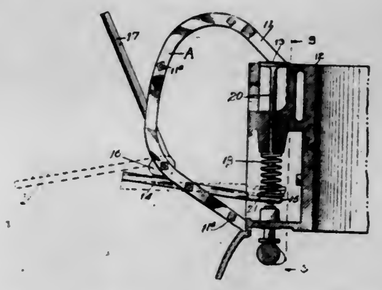
1. In an intake lock for internal combustion engines, a pair of superimposed perforated registering sections one

of which has a continuous recess in its inner face, a slidable closure plate for the perforations having a rack on one side edge thereof slidable in the recess, a pinion in the recess in mesh with the rack, the inner face of the other section engaging the plate and pinion to hold both of the latter in the recess, said sections being brazed together, a hollow lug extending upwardly from said other section, a lock barrel in the lug having a key-actuated



spindle connected to the pinion, and means to secure the sections to the manifold pipe and carbureter including bolts extending through the sections, and connected to the manifold pipe and carbureter and studs screwed through the sections and impinged against the bolts so as to allow of removal of the nuts of the bolts and disconnection of the manifold pipe without disturbing the remaining parts.

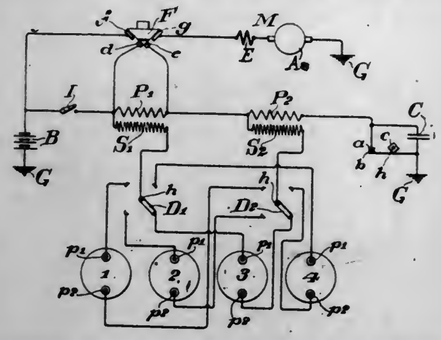
1,458,374. VALVE-SPRING LIFTER. CLIFFORD C. YOUNG, Des Moines, Iowa. Filed Mar. 30, 1922. Serial No. 548,097. 2 Claims. (Cl. 29—86.3.)



1. A valve spring lifter comprising a main portion having a body portion of substantially the form shown, and provided at its upper portion with diverging inclined arms, adapted to rest on top of an engine block, and at its lower portion with a part adapted to engage the side of the engine block, an arm pivoted to said body portion near the lower part thereof provided at one end with bifurcated fingers, a cam pivoted to said body portion and adapted to coact with the other end of said arm for raising said fingers for lifting the valve spring, said cam being arranged to move passed center when manipulated to the limit of its movement in either direction.

1,458,375. IGNITION APPARATUS. FRANK AIKEN, Elkins Park, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1921. Serial No. 441,273. 9 Claims. (Cl. 123—148.)

8. The combination with a combustion chamber, of a plurality of spark gaps therein, a plurality of induction coils having their primaries connected in series with each other, a source of current in circuit with said primaries, the secondaries of said induction coils connecting with the different spark gaps, current-interrupting means in circuit with said primaries, and means for discontinuing production of sparks at some of said gaps and simul-



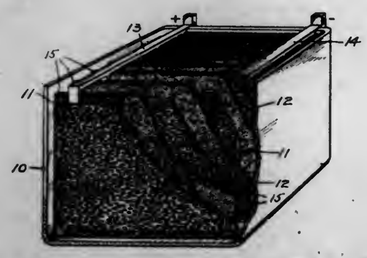
taneously increasing the spark intensity at the remainder of said gaps comprising switching mechanism for short-circuiting some of the primaries of said induction coils.

1,458,376. METHOD OF MAKING CERAMIC PRODUCTS. EDWARD ANDERSON, Dayton, Ohio, assignor, by mesne assignments, to The A. A. Simonds-Dayton Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 21, 1919. Serial No. 318,910. 15 Claims. (Cl. 18—47.5.)



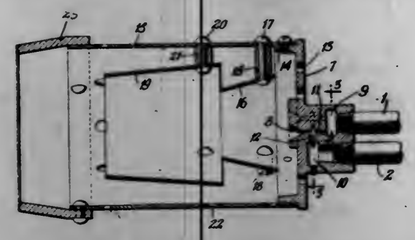
1. The method of making ceramic products, which comprises mixing with the materials that are to compose the finished product a volatilizable substance adapted to bind said materials together and maintain the mass in whatever form it is given until after it is deposited in the kiln.

1,458,377. STORAGE BATTERY. EDWARD ANDERSON, Dayton, Ohio, assignor, by mesne assignments, to The A. A. Simonds-Dayton Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 18, 1919. Serial No. 338,892. Renewed Jan. 24, 1923. 10 Claims. (Cl. 204—29.)



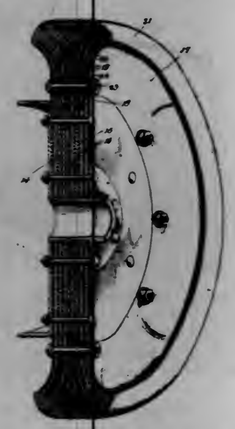
1. A separator for storage battery plates, composed of a granulated refractory material and a vitrified bond.

1,458,378. OIL BURNER. CARL P. ASTROM, East Orange, N. J., assignor to McKneat Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 21, 1921. Serial No. 438,815. 5 Claims. (Cl. 158—76.)



3. An oil burner comprising a plurality of substantially parallel atomizing nozzles adjacent one another and adapted to form a long homogeneous flame, means for supplying oil to the same, a plurality of baffles in succession disposed annularly of the combined path of said nozzles and beyond the same, and a burner nozzle beyond the outer baffle.

1,458,379. VEHICLE WHEEL. HARRY N. ATWOOD, Smithfield, N. C., assignor to Rubwood, Inc., Lawrence, Mass., a Corporation of Massachusetts. Filed Nov. 21, 1921. Serial No. 516,706. 9 Claims. (Cl. 152—29.)



4. A vehicle wheel comprising a body and tread, the body being made up of plies of veneer and intervening bonding plies of rubber, the veneer plies being outwardly curved at their peripheral portions in the direction of the relatively adjacent sides of the wheel and with gradually increasing degrees of curvature and the bonding plies being gradually increased in thickness at their peripheral portions to correspond to the increase in width of the spaces between relatively adjacent veneer plies, the tread being intimately incorporated with the said bonding plies.

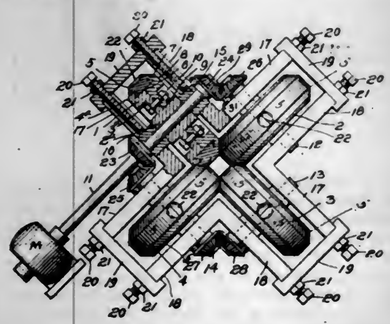
1,458,380. VEHICLE WHEEL. HARRY N. ATWOOD, Smithfield, N. C., assignor to Rubwood, Inc., Lawrence, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1921. Serial No. 521,373. 22 Claims. (Cl. 152—29.)

14. A vehicle wheel comprising a body consisting of circular plies of veneer and intervening bonding plies of rubber material, the veneer plies being arranged in sets at the opposite sides of the midplane of the body, the peripheral portions of the plies of the two sets being outwardly curved in opposite directions to provide resilient tread sustaining shoulders, the margins of the said peripheral portions of the veneer plies being successively spaced inwardly with relation to one another from the outermost to the innermost ply of each set whereby said shoulders are of gradually decreasing thickness and



increasing resiliency and yieldability in the direction of their outer portions, and a tread surrounding and supported by said shoulders, the tread being of rubber material and being integrally bonded with the said bonding plies, and also filling the space between the innermost veneer plies of the two sets.

1,458,381. FINISHING ROLLS. GEORGE BAEHR, Pittsburgh, Pa. Filed July 31, 1918. Serial No. 247,660. 4 Claims. (Cl. 80—28.)

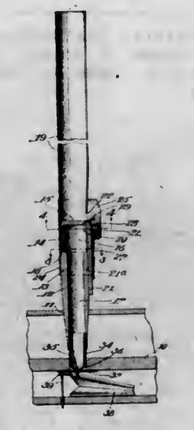


4. A mill for rolling bars of varying cross section comprising a driven shaft carrying a roll, a plurality of secondary shafts driven from the first shaft by connecting gears, each of said shafts carrying a roll adapted to cooperate with the other rolls, and means to completely release the shaft of each roll from its driving gear, whereby to adjust the roll to any desired circumferential relation to the other rolls without moving the other rolls and without moving the driving gear of the roll being adjusted.

1,458,382. ORGAN PIPE. CHARLES E. BARKSTROM, Chicago, Ill. Filed July 15, 1921. Serial No. 484,861. 3 Claims. (Cl. 84—349.)

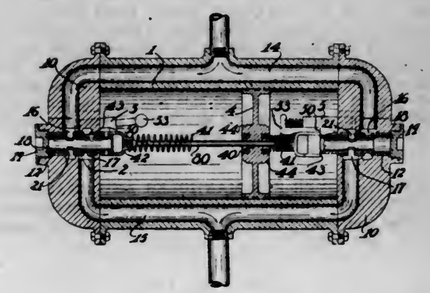
1. A flue organ pipe comprising a pipe having at one of its ends an opening, a hollow foot extended into said

end of the pipe and having in its wall an opening coinciding with the pipe opening and provided at said end with an inwardly extended flange, a coupling uniting the pipe and foot, a slidable cap co-operating with the



coupling, foot, and pipe to partially close the openings in said foot and pipe, and an orifice tubular toe located in the end of the foot opposite its flange and adapted for communication with a supply of air under pressure.

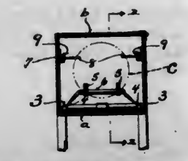
1,458,383. FLUID METER. CARLOS J. BASSLER, Portland, Oreg., assignor to American Liquid Meter Company, Portland, Oreg., a Corporation of Washington. Filed June 8, 1921. Serial No. 476,057. 6 Claims. (Cl. 73—30.)



1. In a fluid meter of the positively-acting type, mechanism which is reversible in action for controlling the inlet to and outlet from said meter, and means for cushioning said reversible mechanism at the ends of its stroke comprising a member having a recess of the shape of the adjoining end of the reversible mechanism, and slightly larger than this end.

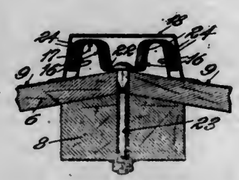
1,458,384. CHEESE HOOP AND FOLLOWER STERILIZING WASHER. HENRY H. BATHKE, Oconto, Wis. Filed Apr. 26, 1921. Serial No. 464,737. 1 Claim. (Cl. 141—1.)

A cheese hoop and follower sterilizing washer comprising a closed, elongated receptacle of rectangular cross section and having a movable top to afford access to the interior thereof, a pair of perforated steam pipes located within the receptacle adjacent the bottom and closely adjacent the lower corners thereof, the axes of said perforations extending towards the center of said receptacle, a rigid rectangular frame of approximately the interior length of said receptacle and of materially less width than the interior width of said receptacle, a pair of supporting brackets carried by the inner side of the ends of



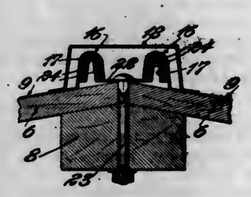
said receptacle for removably suporting said rigid frame in spaced relation to the bottom of the receptacle, spaced clips carried by the side walls of said receptacle and projecting inwardly thereof, a pair of rectangular rods removably carried by said clips and held against turning by said clips, and a plurality of inwardly projecting pins carried by said rods.

1,458,385. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1921. Serial No. 519,305. 14 Claims. (Cl. 108—5.)



1. A flexible car roof comprising roof sheets spaced apart along their adjacent margins and having hollow ribs extending lengthwise thereof, and an anchor member secured to the car between the spaced margins of adjacent sheets, said anchor member engaging both walls of the rib of each of said adjacent sheets, thereby preventing bodily movement thereof towards and away from each other, and having tangential contact with said walls, thereby permitting said sheets to slue about the contacting portions of said anchor member in response to the weaving of the car frame.

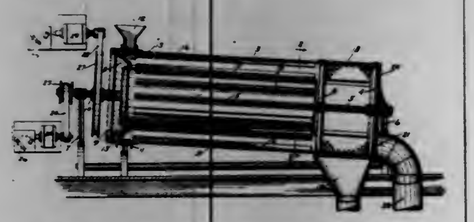
1,458,386. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1921. Serial No. 519,306. 11 Claims. (Cl. 108—5.)



1. A flexible car roof comprising roof sheets spaced apart along their adjacent margins which are formed with raised hollow ribs that extend lengthwise thereof, and an anchor member secured to the car between the spaced margins of adjacent sheets, said anchor member having raised ribs extending lengthwise thereof that are adapted to fit within the raised marginal ribs of ad-

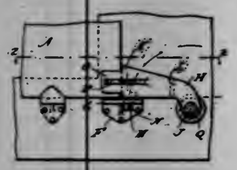
jacent sheets, the sides of the anchor member ribs having tangential contact with the sides of the roof sheet ribs, thereby preventing bodily movement of the sheets towards and away from each other and permitting said sheets to slue about the contacting portions of said anchor member ribs.

1,458,387. PROCESS OF TREATING CONCRETE AGGREGATE. CHARLES LUTHER BOURNE, Minneapolis, Minn. Filed May 17, 1920. Serial No. 381,925. 2 Claims. (Cl. 83—11.)



1. The process of treating aggregate material comprising gravel or other rock particles associated with softer particles, such as soft rock, shale, clay, dirt and the like, which consists in subjecting said material to repeated impacts between relatively moving surfaces, regulating such impacts in number and force so as to break up particles having a co-efficient of hardness less than a certain standard but not to break up the particles having a co-efficient of hardness greater than said standard, and then separating the broken-up particles from the unbroken particles to produce an aggregate material having a standard of hardness suitable for concrete.

1,458,388. RAILWAY-CAR-DOOR STOP AND SEAL. LEMUEL WILLIAM BOYD, Madison, Ill. Filed Mar. 23, 1922. Serial No. 546,121. 2 Claims. (Cl. 292—205.)

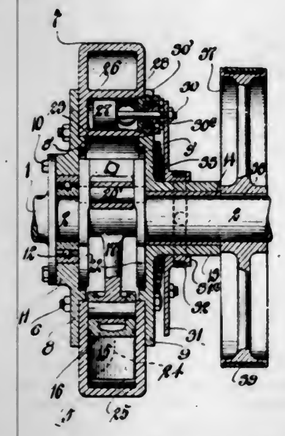


1. The combination with a sliding car door having supporting hangers at the top, of a device of the character described comprising a rotatable stop member having separated cheek plates forming a space at one end and provided with pivot holes,—the opposite end being adapted to engage the rear of said door in closed position,—a pivot bolt passing through the pivot holes in said cheek plates and into the side of the car below the path of the door, and a door-supporting roller located in the space between said cheek plates and mounted on said pivot bolt, substantially as described.

1,458,389. MANUFACTURE OF VISCOSE SILK. EMILE BRONNERT, Mulhouse, France. Filed Nov. 17, 1921. Serial No. 515,988. 2 Claims. (Cl. 18—54.)

1. Process of manufacturing threads of any deniers below six deniers from raw viscose, which comprises forcing viscose through openings of a diameter considerably larger than the diameter of the thread to be spun in the case of viscose of normal fluidity, into a bath containing sulphuric acid, ammonium sulphate and sodium sulphate, the minimum concentration of the acid component of which bath is inversely proportional to the square root of the denier numbers of the thread desired and the amount of acid per unit volume of said bath, reckoning the ammonium sulphate as equivalent to half its weight of sulphuric acid, as not allowed to fall below a certain minimum weight, the said minimum being experimentally determined for any one denier number.

1,458,390. HYDRAULIC TRANSMISSION. JAMES H. BURROW and GEORGE A. BURROW, Spokane, Wash. Filed Oct. 24, 1919. Serial No. 333,041. 1 Claim. (Cl. 192—60.)



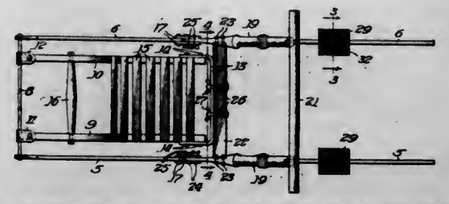
The combination of a driving shaft and its rotor having an open center, side plates attached to said rotor having annular recesses, a driven shaft having bearing disks in said recesses, an eccentric between said disks, said rotor having a passage and transverse pockets intercepting said passage, radiating pump cylinders opening into said passage, pistons for said pumps, pivotal stems between said eccentric and pistons, a slide valve in each pocket between each pair of adjoining pumps for controlling the flow of oil through said passage, spring pressed means for holding said valves normally in closed position, a bearing sleeve rigid with one of said side plates, a movable valve spider having a hub on said sleeve, and means for moving said spider to open said valves.

1,458,391. COVER FOR MANHOLES AND ANALOGOUS DEVICES. THOMAS JAMES BURTON, Murphysboro, Ill. Filed June 26, 1922. Serial No. 571,066. 2 Claims. (Cl. 137—13.)



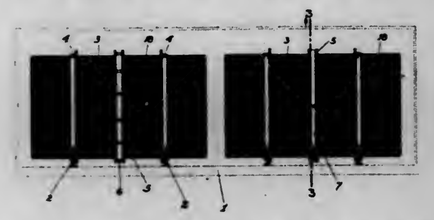
1. A cover for manholes and analogous devices comprising a plate having a hole extending therethrough, locking means mounted on one side of said plate, a stem extending through said hole and turnably and slidably mounted therein, said stem being connected at one end to said locking means for operating the same, and a handle for turning said stem, said handle being pivotally connected to the other end of said stem so as to be extended either on a plane of the axis of the latter or laterally thereof, said plate having its outer side provided with a recess for receiving said handle when swung laterally with respect to said stem, said recess being located and constructed so as to prevent said handle and therefore said stem from turning until said handle is entirely removed out of said recess.

1,458,392. PUSH SLED. MARTIN O. CARLSON, Chicago, Ill. Filed May 6, 1921. Serial No. 467,399. 1 Claim. (Cl. 280—28.)



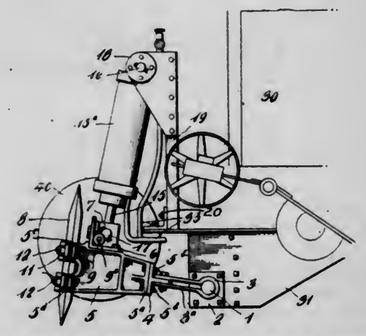
A push sled comprising a pair of runners connected at their front ends, steering handles rising from the runners, a cross-bar connecting the handles, a seat pivotally associated with the front of the runners, a yoke embracing the rear end of the seat and provided in its under edge with notches, and headed projections on the cross-bar adapted to be detachably received in the notches of the yoke.

1,458,393. REVOLVING CARRIAGE FOR DRIERS. FRANK C. CHAPMAN, Modesto, Calif. Filed July 18, 1921. Serial No. 485,503. 7 Claims. (Cl. 34—5.)



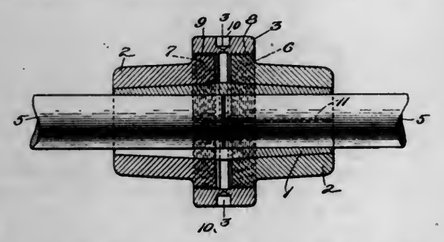
7. A device for carrying material to be dried through a dehydrating tunnel comprising a perforated cylinder adapted to be advanced through the tunnel and rotated as it advances, and a series of radial partitions within the cylinder which will carry the material to constantly different positions with the advancement of the cylinder through the tunnel, whereby the same may be uniformly subjected to the heat at different points in such tunnel.

1,458,394. SCARIFIER. EDWARD F. COOKINHAM and DAVID B. COOK, Frankfort, N. Y., assignors to Acme Road Machinery Company, Frankfort, N. Y., a Corporation. Filed Apr. 4, 1922. Serial No. 549,540. 3 Claims. (Cl. 262—11.)



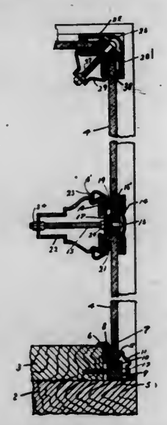
1. A scarifying attachment comprising a draw bar, a plurality of individual tooth blocks spaced along the bar, each block comprising a flanged casting with a front face secured to the bar, and a rear face having upper and lower seats, a tooth clamped against the seats, and a cross bar secured to the tops of the blocks.

1,458,395. COUPLING. CHARLES S. CUNNINGHAM and HOWARD A. BURDWOOD, Lynn, Mass. Filed Mar. 28, 1919, Serial No. 285,816. Renewed Feb. 26, 1923. 3 Claims. (Cl. 287—116.)



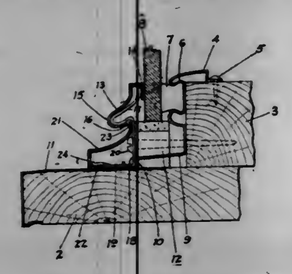
1. A coupling of the character described having in combination, a split sleeve adapted to telescopically overlap the ends of two shafts or the like, said sleeve being exteriorly tapered from near its middle toward each end and being formed non-circular in cross-section so as to provide its exterior with longitudinal flat faces alternating with longitudinal elevations; a pair of clamping members mounted upon said sleeve, and engaging only the longitudinal elevations thereof, and means for forcing said members together to contract said sleeve onto said shafts.

1,458,396. PLATE-GLASS SETTING. FREDERICK W. CURRIER, Minneapolis, Minn. Filed Nov. 22, 1919. Serial No. 340,057. 15 Claims. (Cl. 20—56.4.)



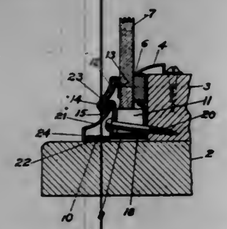
1. In a window structure or the like a glass setting comprising a rail having a base portion seated against the frame of the window and provided with an upwardly turned part or flange, a block interposed between the edge of the glass and the base of the rail, said upwardly turned part or flange having its edge folded over the adjacent edge of the window frame stop and provided with a recess, a second block fitting within said recess and seated against the inner face of the glass, a second flange on said base bearing against the outer face of the glass and means passing through said flanges and into said stop for drawing said outer flange against the face of the glass and the glass against the second block.

1,458,397. PLATE-GLASS SETTING. FREDERICK W. CURRIER, Minneapolis, Minn. Filed Mar. 21, 1921. Serial No. 454,101. 11 Claims. (Cl. 20—56.4.)



1. A separable longitudinally extending glass setting comprising an upper moulding section, means for holding it to the glass, and a lower moulding section normally entirely on the same side of the glass forming a continuation of said first section, said sections normally concealing the holding means.

1,458,398. GLASS SETTING. FREDERICK W. CURRIER, Minneapolis, Minn. Filed Aug. 4, 1921. Serial No. 489,754. 5 Claims. (Cl. 20—56.4.)



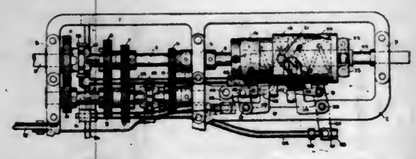
1. A glass setting comprising an inner rail having means to bear against the inner surface of the glass and provided with an outwardly projecting flange extending under the glass, an outer longitudinally divided rail having an upper section with means to hold it against the outer face of the glass and a lower section having a flange in engagement with the outwardly projecting flange of said inner rail, the meeting longitudinal edges of said outer rail sections being arranged in overlapping relation.

1,458,399. FASTENING DEVICE. JESSE FAIRLEY, Sioux Falls, S. Dak. Filed Sept. 18, 1922. Serial No. 588,943. 8 Claims. (Cl. 25—131.)



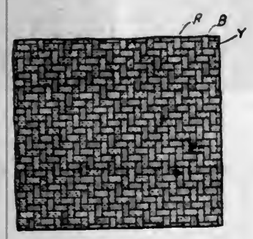
4. In a fastener for abutting elements having registering perforations, a resilient body extending substantially lengthwise of the elements and having one end extended at approximately right angles and formed to be projected through the registering perforations and having its opposite end formed to be sprung over the free edges of the elements.

1,458,400. CHANGE-SPEED MECHANISM. SAMUEL W. FERGUSON, Washington, D. C. Filed July 12, 1920. Serial No. 395,610. 9 Claims. (Cl. 74—59.)



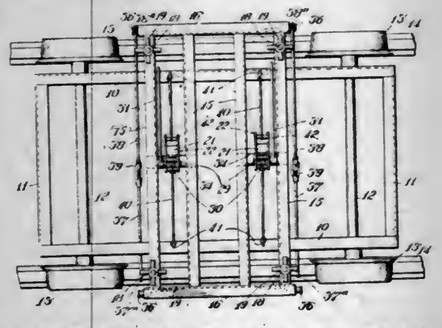
1. Automatic change speed mechanism including a driving member; a driven member; gearing operatively associated therewith; clutch mechanisms for connecting and disconnecting certain sets of gears; a torque mechanism operable by the strain between the driving and driven members; a plurality of levers operably associated with the torque mechanism; operative instrumentality connecting the levers and clutch mechanisms; and a lever actuating member associated with the torque mechanism and shiftable thereby into position to positively operate the levers.

1,458,401. METHOD OF PRODUCING MOTION PICTURES. JOHN W. FLENDER, Wexford, Pa., assignor of one-half to Henry Braun, Pittsburgh, Pa. Filed Nov. 10, 1920. Serial No. 423,355. 4 Claims. (Cl. 88—16.4.)



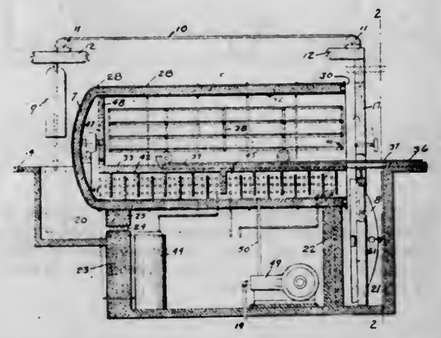
1. The method of producing atmospheric depth and color tone in motion pictures, which consists in projecting such pictures upon a screen having a plurality of equal-sized like-shaped areas of primary colors symmetrically arranged with no two areas of the same color in contact with each other.

1,458,402. TRACK RAISING AND SHIFTING APPARATUS. JOHN FORSBERG, Chicago, Ill. Filed Sept. 2, 1922. Serial No. 586,009. 18 Claims. (Cl. 104—7.)



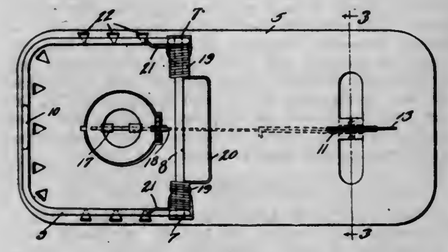
5. Apparatus of the class described comprising a supporting structure, means to anchor said structure to a section of track a frame pivotally connected to said structure, means to secure said frame when in a substantially vertical position to said structure, a lifting member slidably associated with said frame, means for effecting movement of said member relative to said frame in a direction lengthwise of said member, and means for holding said member against retrograde movement relative to said frame.

1,458,403. VACUUM DEHYDRATOR. CHARLES E. GLESSNER, Portland, Oreg. Filed Feb. 3, 1920. Serial No. 356,056. 5 Claims. (Cl. 34—30.)



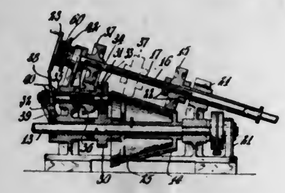
1. In a vacuum dehydrator, the combination of a dehydrating apparatus with a tank and closure member having expansible metal coverings adapted to hermetically enclose the structure of said tank and closure member, a means for sealing the union of said tank member and said closure member, and air exhausting and gauge means adapted to control the pressure within said tank, an air exhausting and gauge means adapted to control the pressure within the structure enclosing portion of the expansible metal covering, and a check valve arranged to permit the passage of air from within the structure enclosing members to the central enclosure.

1,458,404. RAT TRAP. HENRY C. GOODMAN, Los Angeles, Calif. Filed Dec. 19, 1921. Serial No. 523,409. 2 Claims. (Cl. 43—81.)



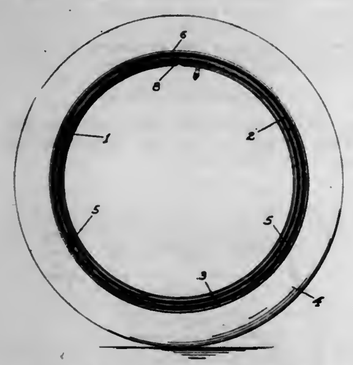
1. A trap comprising a body portion, said body portion having an opening disposed adjacent to one end thereof, a pivoted hook member having a forwardly extending portion, pivotally supported by the body, said hook member having an arm formed integral therewith and extending under the body portion, said arm having a slotted right angled flange formed at one end thereof, an arm pivotally supported under the body portion and extending through the slot of the flange, said last mentioned arm having a bait retaining member disposed in the opening of the body portion, and a spring controlled jaw adapted to be held in its inactive position by engagement with the hook member.

1,458,405. POWER-TRANSMISSION MEANS FOR BOATS. PAUL C. HAAN, Upper Nyack, N. Y. Filed Aug. 12, 1922. Serial No. 581,329. 4 Claims. (Cl. 74—26.)



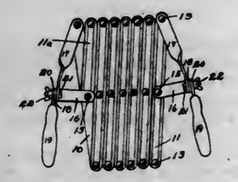
2. A power transmission means comprising a pair of conical drums, means for rotating said drums in opposite directions, an inclined shaft, a pair of disks fixed thereon, and a unitary means for moving said drums simultaneously in opposite directions into and out of engagement with the respective disks.

1,458,406. SECTIONAL AND DEMOUNTABLE RIM. LOUIS B. HARVEY, Buffalo, N. Y., assignor to Harvey Rim and Wheel Company, Inc., Buffalo, N. Y. Filed Aug. 16, 1920. Serial No. 403,691. 1 Claim. (Cl. 301—31.)



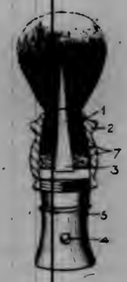
A rim having outwardly and inwardly projecting flanges, the rim and flanges having a V-shaped transverse cut to form contiguous interlocking ends, the lower flanges, on the obtuse angle of the cut, being cut away to extend substantially parallel to the ends of the cut in the outer flanges, as and for the purpose specified.

1,458,407. CLIPPING SHEARS. ESTUS J. HAWKS, Ames, Iowa. Filed Feb. 24, 1922. Serial No. 539,003. 3 Claims. (Cl. 30—11.)



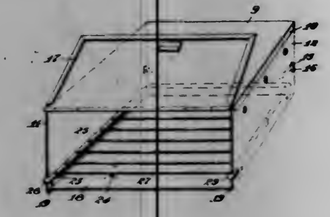
1. A shears having generally the form of a plurality of lazy tong levers, the members of which are in the form of coacting blades, one edge of each pair of coacting edges being sharpened, handles mounted on the end blades of said shears.

1,458,408. SHAVING BRUSH. CHARLES W. HAWTIN, London, England, assignor of one-half to William George Mason, London, W. 1., England. Filed Oct. 30, 1922. Serial No. 597,892. 3 Claims. (Cl. 15—143.)



1. A shaving brush, comprising a hollow handle provided at one end with a socket and having perforations in the walls thereof, brush material mounted in said socket, a tubular member mounted in that portion of the brush material located within the brush socket, the bore of said member cooperating with the perforations in said hollow handle to permit a free circulation of air through the central portion of the brush material.

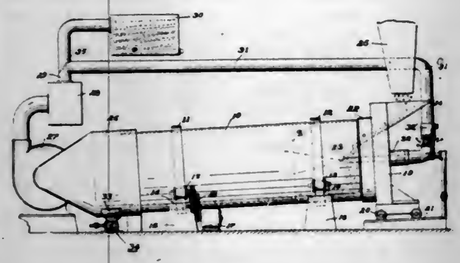
1,458,409. FOLDING OVEN. JOHN HIGHAM, Los Angeles, Calif. Filed Nov. 29, 1920. Serial No. 426,965. 3 Claims. (Cl. 126—275.)



3. In a foldable oven, a top, side panels hinged to the top and extending downwardly, inturned flanges at the bottoms of the side panels, a bottom upon the flanges, and a shelf sliding between the side panels and having rigid hooks at its front corners to extend around the front edges of the side panels.

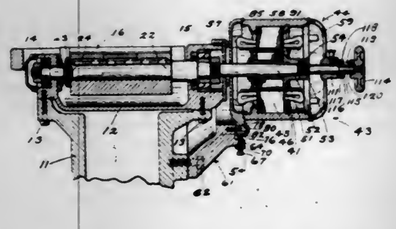
1,458,410. METHOD OF AND APPARATUS FOR PRODUCING CHARCOAL AND BY-PRODUCTS. STANLEY HILLER, San Francisco, Calif., assignor to Pacific By-Products Company, San Jose, Calif., a Corporation of California. Filed Sept. 4, 1919. Serial No. 321,555. 5 Claims. (Cl. 202—3.)

1. An apparatus for producing charcoal from fruit pits and shells, comprising in inclined rotary cylinder having heads at its ends, a spout and hopper through which the shells are supplied into one end of the cylinder, a fuel nozzle at the same end of the cylinder as the spout and hopper, means for rotating the cylinder for causing the material to travel in the same, whereby the material is first passed through the flame from the nozzle and subsequently subjected to a non-flammable heat, means for controlling the oxygen admitted at the end of the



cylinder at which the nozzle is arranged, and suction, scrubbing and condensing means connected with the drum.

1,458,411. WOODWORKING MACHINERY. JAMES E. HIRST, Cincinnati, Ohio, assignor to J. A. Fay & Egan Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Jan. 22, 1923. Serial No. 614,067. 12 Claims. (Cl. 144—131.)

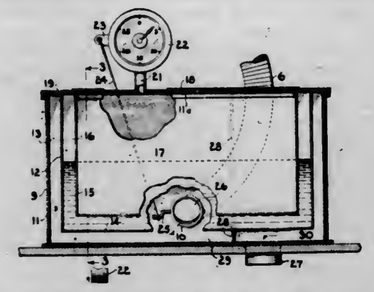


1. In wood-working machinery, the combination of a machine-frame comprising a supporting portion for a cutter-spindle, an electric motor comprising a motor-frame, an outer stator and a rotor within said stator, a cutter-spindle, a plurality of bearings on said supporting portion of said machine-frame for said cutter-spindle, said cutter-spindle having an overhanging end integral therewith extending to overhang said bearings, means for securing said rotor to said overhanging end, complemental steadying means between said motor-frame and said overhanging end of said cutter-spindle in line with said first-named bearings for steadying said overhanging end, and means for securing said motor-frame bracketwise to said machine-frame.

1,458,412. HOT-AIR AND STEAM COOKER. EARL C. HIXSON, and CHARLES T. HIXSON, Ringwood, Okla. Filed Aug. 8, 1921. Serial No. 490,621. 3 Claims. (Cl. 126—20.)

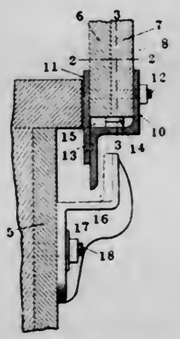
1. A cooker comprising an outer closed heating chamber adapted to be secured to the running board of an automobile and having heat insulating walls, a steam chamber depending from the top wall of the heating chamber and spaced from the sides and bottom thereof, a cooking chamber depending from the top wall of the steam chamber, the space between the sides and bottom of the cooking chamber and the sides and bottom of the steam chamber being partly filled with water and otherwise entirely unobstructed, the walls of the cooking chamber having integral flanges which form the top wall of the heating and steam chambers and a seal for the

latter, a removable cover for the cooking chamber, damper-controlling means affording communication be-



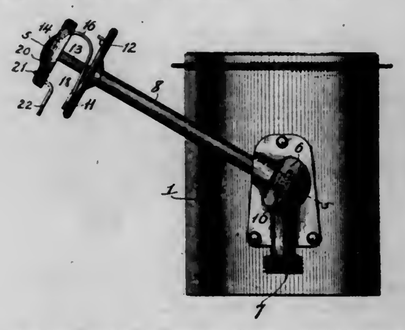
tween the heating chamber and the exhaust pipe of the motor, and a pressure gage connected with the steam chamber and automatically operable to control the damper.

1,458,413. CAR DOOR. LOUIS A. HOERR, St. Louis, Mo. Filed Sept. 23, 1922. Serial No. 590,048. 6 Claims. (Cl. 20—22.)



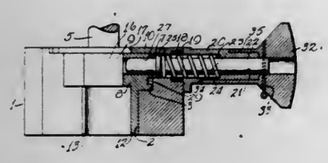
1. In a device of the class described, the combination with a wooden door, of a reinforcing strip provided with a vertical and a horizontal web, the horizontal web being positioned away from the lower edge of the door to form a ventilating space to dry the wood.

1,458,414. OIL BURNER FOR STOVES. WALTER E. HUENEFELD, Cincinnati, Ohio. Filed Aug. 4, 1922. Serial No. 579,749. 3 Claims. (Cl. 67—66.)



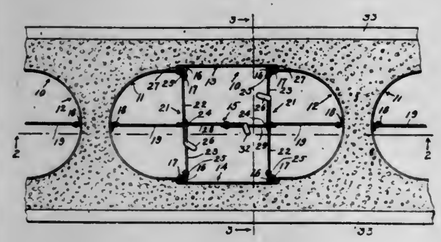
1. The combination with a burner, a tube secured thereto, and a disk rigid with said tube and provided with a stop, of a wick operating spindle passing through said tube and provided with a manually operable member, and a yoke of spring metal disposed between said disk and manually operable member and adjustably cooperable with the latter, one member of said yoke being cooperable with the stop on the disk to limit the height to which the wick may be raised.

1,458,415. ELEVATOR FOR SUCKER RODS. NEWEL AUSTIN JENNET, Ranger, Tex. Filed Nov. 14, 1921. Serial No. 515,008. 6 Claims. (Cl. 294—91.)



1. A device of the character described comprising a carrying block provided with a bore and having a slot extending from the outer wall of the block to said bore, a rod-engaging member carried by said block and having a slot arranged to register with the slot in the carrying member, whereby a rod can enter the slot in said rod-engaging member, said carrying member being rotatable with respect to the rod-engaging member, whereby the rod is prevented by said carrying block from displacement out of the slot in said rod -engaging member.

1,458,416. FORM FOR CONCRETE WALL CONSTRUCTION. JAMES JOHNSON, South Pasadena, Calif. Filed Sept. 13, 1922. Serial No. 587,917. 4 Claims. (Cl. 25—128.)

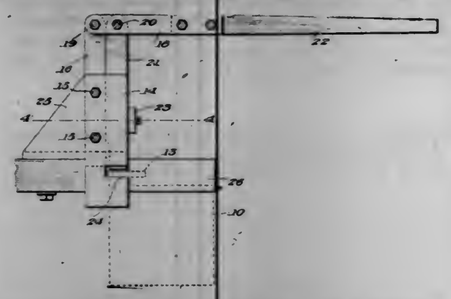


1. A core form, comprising a pair of oppositely disposed end members composed of flexible material and a pair of oppositely disposed side members interlocked with said end members, and means for moving said end members toward each other and disengaging them from the side members.

1,458,417. PLATE-PUNCHING MACHINE. OSCAR A. JOHNSON, Minneapolis, Minn. Filed Apr. 29, 1921, Serial No. 465,536. Renewed Feb. 10, 1923. 1 Claim. (Cl. 29—84.)

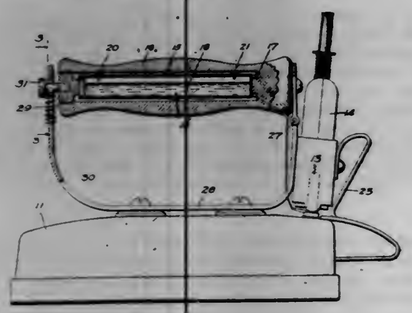
In a device of the character described, a frame comprising spaced parallel members, said members having

alined slots opening at one edge of the frame, a lever pivoted on said frame, a plunger operating between said



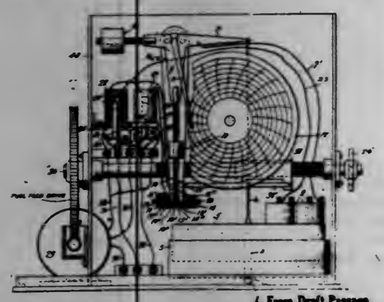
members and actuated by said lever, and a supporting bracket carried by one of the members of said frame.

1,458,418. SAFETY DEVICE AND SWITCH. CLARENCE L. JOHNSTON, of Oakland, and CARL M. F. FRIDEN, of Piedmont, Calif. Filed Mar. 6, 1922. Serial No. 541,597. 14 Claims. (Cl. 219—25.)



1. In combination, an electrically heated device, and a switch operative by the operative movement of the device to close the circuit for the device.

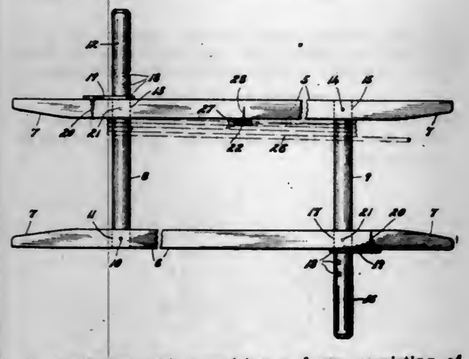
1,458,419. AUTOMATIC COMBUSTION REGULATOR. LABAN ELLSWORTH JONES and CHARLES ROSWOLD WRAITH, Anaconda, Mont. Filed Apr. 5, 1920. Serial No. 371,540. 13 Claims. (Cl. 236—15.)



4 From Draft Passage

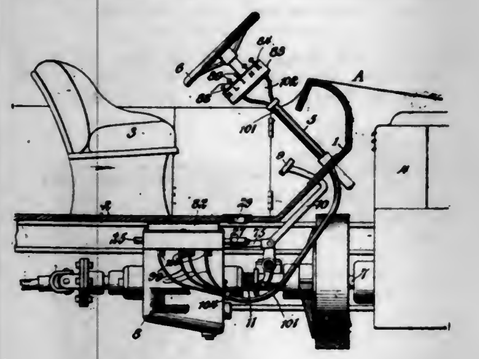
1. In apparatus of the character described, the combination with a pressure responsive means including a pivotally mounted element and means for translating variations of pressure into angular movement of said element and means for regulating conditions in a combustion chamber including an electric motor and electric circuits for controlling the motor, of an arm connected to the said element and partaking of said angular movement, contact elements disposed on opposite sides of the arm in the plane of movement thereof, said arm being adapted to contact with said contact elements, means operative upon contact between the arm and either of said contact elements to apply a force sufficient to hold the arm to the contact element against a predetermined force tending to break contact, said circuits being controlled by the said arm and the said contact elements and time-controlled means operative to make said holding force ineffective.

1,458,420. WINDING REEL. HARRY T. KEEL, Chester, Pa. Filed Nov. 4, 1922. Serial No. 599,137. 3 Claims. (Cl. 242—96.)



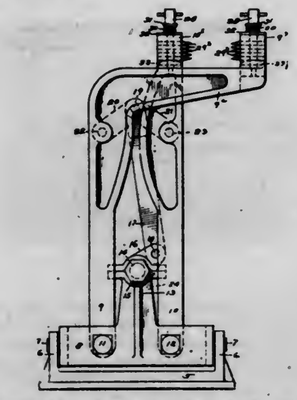
1. A winding reel comprising a frame consisting of a pair of parallel bars and a pair of cross bars, said cross bars each having an end projecting beyond one of said parallel bars, said projecting ends having a plurality of spaced notches, and hooks pivoted on the parallel bars and adapted to engage said notches whereby the parallel bars may be secured in adjustable spaced relation to the cross bars.

1,458,421. SHIFTING MEANS FOR TRANSMISSION GEARING FOR AUTOMOBILES. ELMER G. KESLING, Bloomfield, Mo. Filed Apr. 16, 1918. Serial No. 228,892. 33 Claims. (Cl. 74—58.)



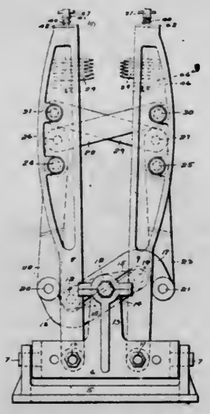
1. In a gear shifting mechanism for automobiles, a series of selective devices, means for actuating any chosen one of the selective devices to the exclusion of the others, controlling-switch devices subject to the selective devices, and gear-shifting means controlled by the switch devices.

1,458,422. SPRING SPREADER. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Sept. 7, 1922. Serial No. 586,775. 6 Claims. (Cl. 81—3.)



1. A spring spreader comprising a pair of standards, a base to which the lower ends of said standards are pivoted and by which said standards are held upright, mechanism for moving said standards toward and from each other, one of said standards carrying an extension which extends across the other of said standards, and spring-engaging wedges upon the upper ends of said standards.

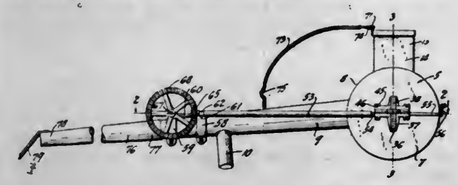
1,458,423. SPRING SPREADER. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Sept. 7, 1922. Serial No. 586,776. 8 Claims. (Cl. 81—3.)



1. A device of the character described, comprising a pair of elements movable toward and from each other and individual wedge assemblies for each of said elements removably mounted thereon, each of said wedge assemblies comprising a group of individually movable wedges and means for holding them in assembled relation when removed.

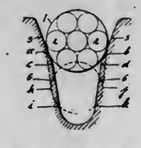
1,458,424. APPARATUS FOR DISTRIBUTING POWDER. JOSEPH F. LEMONS, Adams, Tenn., assignor of one-half to Coleman R. Lemons, Adams, Tenn. Filed Oct. 14, 1922. Serial No. 594,484. 4 Claims. (Cl. 43—148.)

4. An apparatus for distributing powder comprising a casing, a fan rotatably mounted in the casing, an outlet conduit carried by the casing, a hopper carried by the casing, an outlet opening in the bottom of the hopper, an inlet opening in the side of the casing adjacent the bottom of the hopper, a chute disposed beneath the hopper, the end of said chute being open to admit air into the casing, an agitating disc mounted on the bottom of



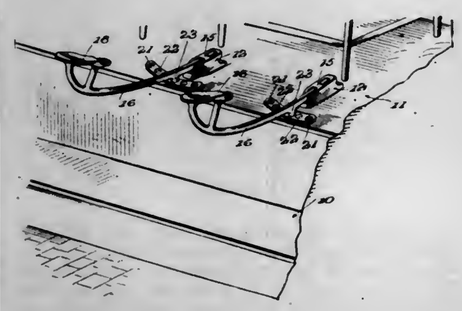
the hopper, a lever secured to the shaft of the agitating disc and extending through the chute, a valve carried by the shaft of the agitating disc beneath the bottom of the hopper, a driving shaft mounted on the casing, and means operatively connecting the driving shaft with the lever of the agitating disc.

1,458,425. V-GROOVED SHEAVE. DAVID L. LINDQUIST, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 12, 1919. Serial No. 310,410. 6 Claims. (Cl. 74—21.)



2. The herein described sheaves for the hoisting ropes of traction elevators, having wedge shaped grooves and circular arcs for supporting the ropes with the required traction for the elevators and an undercut portion between the ends of the arcs, the width of said portion being defined by angles of from 90° to 105° measured between straight lines drawn from the ends of the arcs at said ends of the arcs toward the axis of the pulley, and the sides of the undercut portion of the groove defined by straight lines drawn from said ends of the arcs intersecting each other at a point in a vertical line extended from the axis of the arcs and which said point is also the point of intersection of straight lines drawn tangent to the arcs.

1,458,426. FOOT REST. FRANK P. LITZ, Corry, Pa. Filed Apr. 29, 1922. Serial No. 557,391. 7 Claims. (Cl. 15—265.)



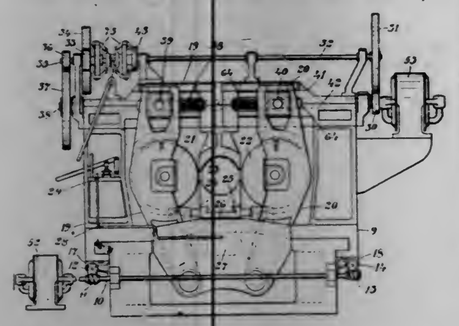
7. In combination with a platform, a bracket swiveled thereon so as to be freely rotatable about a vertical axis,

an arm connected to the bracket and extending outwardly therefrom, a foot plate carried by the outer end of the arm and releasable means for preventing turning movement of the arm and bracket.

1,458,427. METHOD OF TREATING FRUIT JUICES. WILLIAM T. MCGEORGE, Honolulu, Territory of Hawaii. Filed Oct. 31, 1921. Serial No. 511,916. 4 Claims. (Cl. 99—11.)

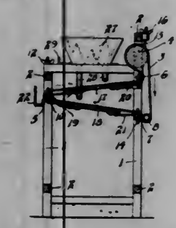
1. The process of preserving fruit juices which comprises agitating such a juice with hydrated aluminum silicate, removing the silicate and adsorbed matters by centrifugal force applied in such a degree that the effluent remains hazy or cloudy, pasteurizing the effluent juice and bottling.

1,458,428. METHOD OF AND ARRANGEMENT FOR CUTTING OFF INGOT BLOCKS. GUSTAF LEONARD MÄLLBERG, Vasteras, Sweden. Filed Aug. 14, 1922. Serial No. 581,902. 10 Claims. (Cl. 164—61.)



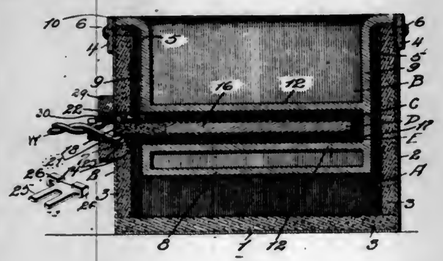
1. A machine for cutting off ingot blocks, consisting of means for rotating the block, two circular freely rotatable cutter discs each having a smooth periphery, two levers for supporting the disc and pivotally mounted adjacent one of the ends thereof and arranged on opposite sides of the block, means for pressing the other ends of the levers to and from each other to force the cutter discs into the block and thereby causing the cutter discs to be rotated only by their friction during the cutting operation with the ingot block.

1,458,429. GRAIN SEPARATOR. HENRY HERMAN MEYER, Red Wing, Minn. Filed Oct. 23, 1922. Serial No. 596,305. 14 Claims. (Cl. 130—18.)



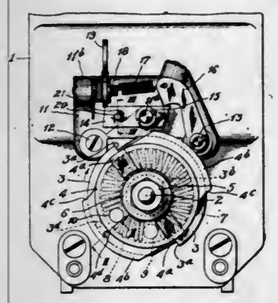
3. A machine for separating grain and impurities, having in combination, an apron arranged to form two upwardly moving surfaces adapted to carry grain and other seeds, devices at the upper end of each surface disposed above the same and under which the grain and seeds are adapted to pass, said device being operative to return said material over the top thereof and back to said surfaces.

1,458,430. MELTING OR SOLDERING POT. EDGAR MILLNER, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,643. 2 Claims. (Cl. 219—19.)



1. A melting pot including an inner shell and a heating chamber, the heating-chamber being disposed crosswise within the shell and comprising top and bottom walls spaced from each other and from the bottom wall of the shell and connected with opposite end walls of the shell and side walls connecting said top and bottom walls and spaced from opposite side walls of the shell, one end wall of the shell forming an end wall of the chamber and the opposite end wall of the shell being slotted to provide an opening into the chamber, in combination with an outer containing shell for the inner shell and heating-chamber, the outer shell having a slot adapted for registration with the slot of the inner shell, and an electric heating-unit adapted for projection through said registering slots to fit within the heating-chamber for supplying heat to the chamber of the inner shell.

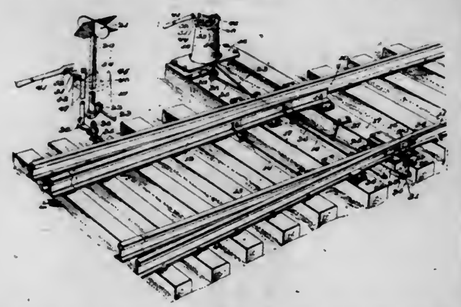
1,458,431. IMPULSE-STARTER MECHANISM FOR IGNITION GENERATORS. JOHN L. MILTON, Cleveland, Ohio, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 26, 1920. Serial No. 369,083. 5 Claims. (Cl. 123—149.)



1. In apparatus of the character set forth, the combination of rotary driving and driven members, resilient yielding transmitting means between said members, a stop adapted to temporarily retard the driven member relative to the driving member, and means adapted, in case of breakage or derangement of the apparatus, to lock the driving and driven members together against relative angular movement.

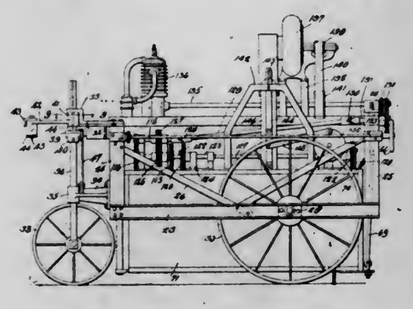
1,458,432. SWITCH LOCK. JOSEPH D. MOORE, Jacksonville, Fla., assignor of one-half to James S. Peterson, Jacksonville, Fla. Filed Feb. 28, 1923. Serial No. 621,807. 6 Claims. (Cl. 246—401.)

1. In a switch lock of the character described, a vertically swingable lock plate, a slide plate for a switch point having a downwardly offset shelf at one side beneath the lock plate, a flat spring inclined along said plate and secured at one end thereto, having its other end bearing upwardly against the lock plate, said shelf



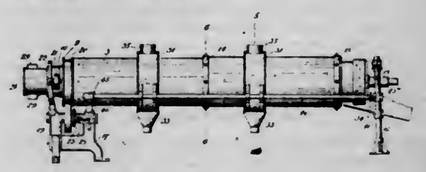
having an upstanding side wall along the outer side of said spring member and having an upstanding end wall across the free end of the spring for the purpose described.

1,458,433. COTTON PICKER. JOSEPH B. NEIL, York, S. C., assignor of one-third to Charles L. Cobb, Rock Hill, S. C., and one-third to J. C. Wilborn, York, S. C. Filed Nov. 14, 1919. Serial No. 337,946. 13 Claims. (Cl. 56—14.)



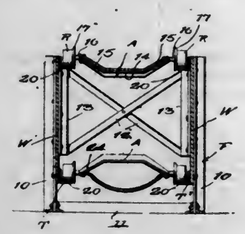
9. In a cotton picker a picking unit including a housing having an outlet opening and separate inlet openings, picker rolls projecting into the respective inlet openings, a spiral roll adjacent to and parallel with each picker roll, means for rotating the rolls, and a single doffing element mounted for rotation in the housing for removing cotton from the picker rolls in said separate inlet openings.

1,458,434. SCREENING APPARATUS. WILLIAM E. NICKERSON, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Aug. 26, 1918. Serial No. 251,411. 10 Claims. (Cl. 83—56.)



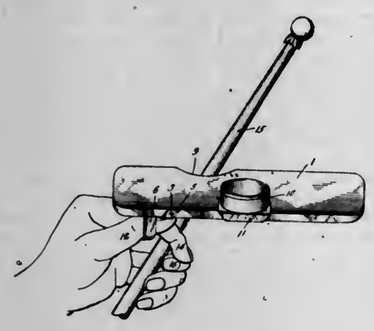
1. In a screening apparatus, the combination with a screen of a cylindrical rotary casing surrounding the screen and provided with peripheral apertures arranged in circumferential series, and a trough surrounding the casing, close to but out of contact therewith, and located in position to receive material discharged through said apertures.

1,458,435. CONVEYER. WILLIAM HOWELL ONION, New Orleans, La. Filed June 22, 1922. Serial No. 570,154. 7 Claims. (Cl. 198—204.)



1. In combination, a pair of rollers, an endless belt passing thereover and adapted to move with the rotation of said rollers, a plurality of cross members, each cross member having a central offset, said members being disposed upon the inner side of the belt, means for securing said belt along its longitudinal edges to said cross members, and means for supporting said cross members whereby they may move with said belt.

1,458,436. PALETTE. JOHN K. PAMEYER, Tacoma, Wash. Filed Sept. 12, 1921. Serial No. 500,206. 3 Claims. (Cl. 41—4.)

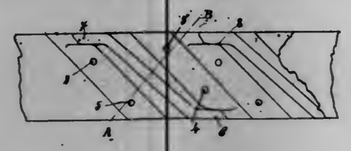


1. In a device of the class described, a palette provided in one edge with a seat for the reception of a mahlstick; and sockets extended downwardly from the lower surface of the palette and spaced apart transversely of the palette, one of the sockets being located adjacent to the seat.

1,458,437. TREAD GRIP FOR THE WHEELS OF MOTOR OR TRACTOR VEHICLES. JULES PUECH, Paris, France. Filed Dec. 15, 1919. Serial No. 345,036. 1 Claim. (Cl. 301—43.)

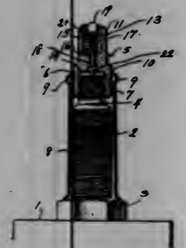
A wheel having tread grips on the periphery of its rim, each tread grip comprising an intermediate section which extends across the periphery of the rim and is arranged substantially at an angle of 45 degrees with respect to the side edges of the rim, and oppositely ex-

tending end sections which are arranged substantially parallel with the said side edges, the front and rear



edges of each section being also substantially at an angle of 45 degrees with respect to the side edges of the rim and said tread grips being juxtaposed.

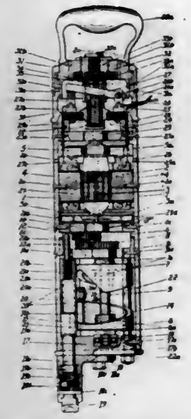
1,458,438. AUXILIARY VALVE FOR INFLATING VALVE TUBES. ROBBE REYNOLDS, Houston, Tex.. Filed Oct. 26, 1921. Serial No. 510,557. 1 Claim. (Cl. 152—12.)



In an auxiliary valve for inflating valve tubes, the latter having a reduced extension, an auxiliary valve casing threaded to said extension and having its base the same diameter as the major base portion of the inflating valve tube, said auxiliary valve casing provided with an auxiliary valve adapted to operatively connect with and open the main valve of the inflating valve tube, a dust cap of larger diameter than and fitting over the inflating valve tube and having one end thereof flared outwardly and being engaged with the usual jam nut at the base of the inflating valve tube, the other end of the dust cap terminating in an inwardly rolled flange semi-circular in cross section, the diameter of the marginal edge of which being equal to and adjustably threaded upon the base of the auxiliary valve casing, the marginal edge of said flange extending inwardly beyond the inner cylindrical surface of the body of the dust cap, thereby holding the dust cap spaced from the inflating valve tube throughout its length, whereby the dust cap may be detached simultaneously with the auxiliary valve casing.

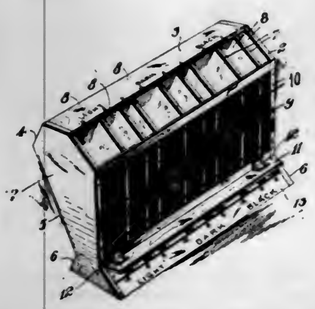
1,458,439. ELECTRICALLY-DRIVEN RECIPROCATING TOOL FOR RIVETING, CALKING, STONE-CUTTING, ETC. JOHN J. ROBERTS, Louisville, Ky. Filed Oct. 25, 1920. Serial No. 419,469. 3 Claims. (Cl. 78—27.)

1. In an electrically driven reciprocating tool provided with a handle, for riveting, calking, stone-cutting, etc., a motor driven by electro-magnetism, an insulated electric circuit to said motor, a manually operative switch in said circuit adapted to be closed by pressure upon the handle of said tool and to be opened automatically by the release of said pressure, combined with a reciprocating member or hammer head, a rotatable cylindrical cup and its rotating shaft adapted to lift said hammer head intermittently a predetermined distance, a spring adapted to force said hammer head down again, a stabilizer fixed to said shaft to compensate the intermittent work of said cylindrical cup, a gear train adapted to drive said shaft from said motor, and a nozzle provided



with a long-shanked tool bit slidably fastened therein and adapted to receive the blows of said hammer head in normal operation.

1,458,440. LAUNDRY-NET RECEPTACLE. FRANKLIN R. ROBISON, Gloversville, N. Y. Filed Apr. 11, 1921. Serial No. 460,378. 3 Claims. (Cl. 217—7.)

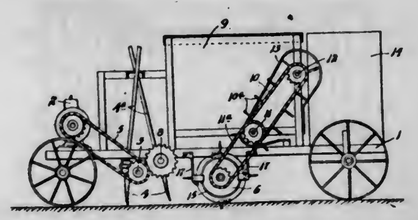


1. A laundry net receptacle including a bottom, an end piece vertically mounted upon each end of said bottom, the side edges of said end pieces being inclined downwardly and outwardly in opposite directions for a short distance and then converging downwardly and inwardly to a point slightly spaced from the said bottom, said side edges then diverging downwardly and outwardly to the bottom, side pieces for the receptacle connected between the said downwardly and inwardly converging portions of said end pieces, the top of the receptacle being open between said uppermost downwardly and outwardly diverging portions of the end pieces to form a receiving opening, and doors hingedly connected to the lower edges of said side pieces to close the bottom of said receptacle between the said lowermost downwardly and outwardly diverging portions of the end pieces.

1,458,441. QUACK-GRASS ERADICATOR. WILLIAM E. ROWE, Crookston, Minn. Filed July 21, 1921. Serial No. 486,506. 7 Claims. (Cl. 55—66.)

1. A quack grass eradicator having in combination, soil disintegrating devices adapted to dig up and loosen

the grass and roots thereof, and a device constructed and arranged to extend into the disintegrated soil and to grip and pick up the grass and roots and deliver the same to a conveyer.

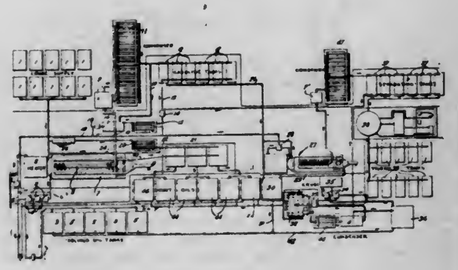


2. A grass pickup device having in combination a cylindrical ground-engaging roller, two series of soil piercing teeth projecting from the periphery thereof, one series being arranged to approach the other and grip the grass and roots therebetween and to recede and discharge the same.

1,458,442. METHOD OF STORING SALT. AUGUST SCHILLING, San Francisco, Calif. Filed July 11, 1921. Serial No. 483,747. 1 Claim. (Cl. 23—11.)

The method of storing salt produced by natural evaporation through the aid of the sun, which consists in submerging the salt immediately after harvesting and with its contained impurities into a saturated brine held within a closed space.

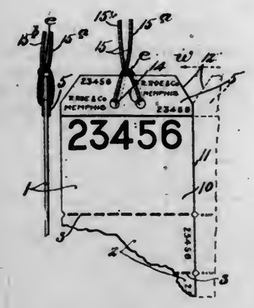
1,458,443. PROCESS OF TREATING HYDROCARBONS. ALFRED SCHWARZ, Montclair, N. J., assignor to Petroleum Sand Products Corporation, a Corporation of Delaware. Filed Feb. 13, 1923. Serial No. 618,758. 27 Claims. (Cl. 196—27.)



12. The process of synthetically producing hydrocarbon compounds which comprises maintaining a substantially chemically constant solution of hydrocarbons so proportioned that the hydrogen is in excess and varying the temperature while distilling under violent agitation sufficient to form a vapor-oil emulsion.

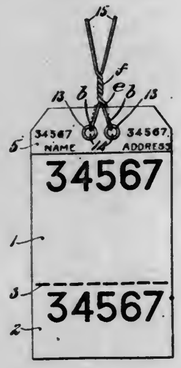
1,458,444. TAG. HENRY F. SCOTT, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed June 8, 1922. Serial No. 566,834. 9 Claims. (Cl. 40—20.)

1. A tag having a body, and an attachment filament having therein integral bights severally penetrating and in engagement with the body at separated places, said



bights severally extending from the margin of the tag to said places of penetration and engagement.

1,458,445. TAG AND METHOD OF MAKING THE SAME. HENRY F. SCOTT, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed June 8, 1922. Serial No. 566,835. 3 Claims. (Cl. 40—21.)



1. A tag having a body, a plurality of anchorage holes in the body, and an attachment wire threaded successively through one hole, around the margin, and through another hole, whereby to form bearing bights in the respective holes.

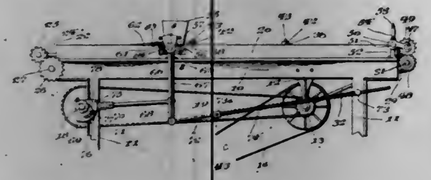
1,458,446. RUBBER HEEL. CLARENCE W. SHAEFFER, Chicago, Ill. Filed Apr. 29, 1921. Serial No. 465,430. 2 Claims. (Cl. 36—35.)



1. A heel for shoes comprising a resilient member, a suction chamber in said member having a deep portion and open at the bottom thereof, said chamber having a convex top, a bead surrounding the mouth of said chamber, and an air chamber above said suction chamber and

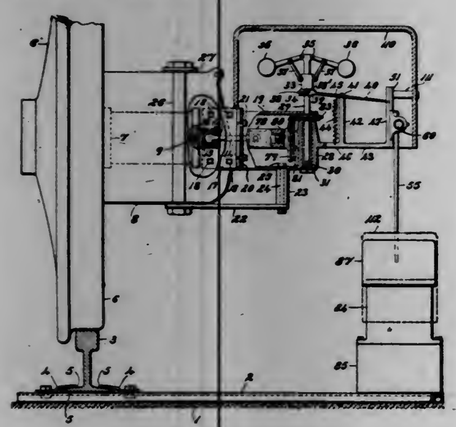
spaced therefrom, said air chamber having a concave bottom to correspond to the convex top of said suction chamber and extending beyond the heel portion equipped with said bead.

1,458,447. PASTING MACHINE. AXEL B. SKEPPSTEDT and ELI HADDON, Chicago, Ill.; said Haddon assignor to Frank Littrell, Chicago, Ill. Filed Jan. 9, 1922. Serial No. 527,058. 17 Claims. (Cl. 216—9.)



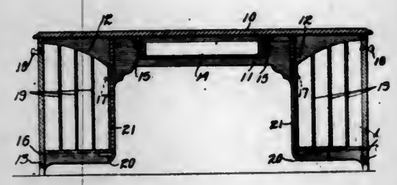
9. In a pasting machine, a work-supporting surface, a work edge-guide extending lengthwise of said surface, means for feeding work along the surface, rollers protruding from said surface for engagement by the work, said rollers having their axes parallel to the direction the work is fed, and means for rotating the rollers in a direction to carry the work laterally into engagement with the edge-guide.

1,458,448. TRAIN-CONTROLLING MECHANISM. ALLEN E. SNYDER, Bowmanstown, and MOSES SNYDER, Lehighton, Pa. Filed Sept. 15, 1922. Serial No. 588,395. 12 Claims. (Cl. 246—182.)



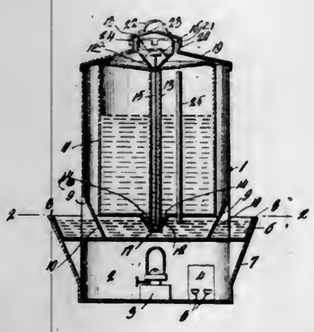
2. In a train controlling mechanism the combination with a rotating axle thereof and the air brake line of ball governor mechanism driven by said axle, means adjacent the governor mechanism having a vertically movable pendulum trip member carried thereby, means connecting the governor mechanism with the trip member carrying means, means actuable by the trip member for effecting an initial opening of a bleed in the air brake line to cause a normal application of the brakes, means for automatically releasing the aforesaid bleed opening means under a predetermined service condition, means actuable by said trip member for further opening said bleed to effect an emergency application of the brakes, means for locking said bleed in the last mentioned open position, and manually operable means for releasing the locking means before the train can be restarted.

1,458,449. COMBINED BENCH AND MUSIC CABINET. JOHN M. SNYDER, York, Pa. Filed June 27, 1921. Serial No. 480,759. 2 Claims. (Cl. 45—64.)



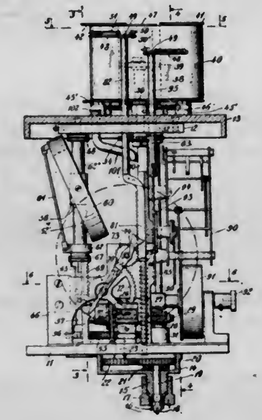
2. A music bench comprising a top adapted to be used as a seat, supporting members spaced apart with a free open space between them and located under the respective ends of said seat, said end supporting members having walls at the sides and back and normal open fronts, receptacles mounted in said open fronts and pivoted along their lower front edges and adapted to fit within and close said open fronts resting against the back walls of the supporting members, substantially as set forth.

1,458,450. DRINKING FOUNTAIN FOR STOCK. JOHN W. UNGER and HERMAN LAHANN, Sioux City, Iowa. Filed Jan. 20, 1920. Serial No. 352,827. 1 Claim. (Cl. 119—73.)



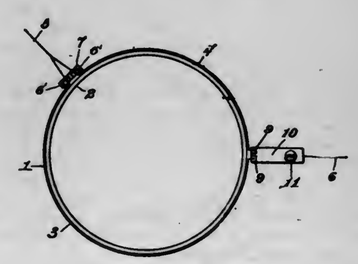
A fountain of the class described comprising a casing having a combustion chamber in its lower end with a trough mounted above it, the top of said casing being provided with an opening surrounded with an upstanding flange, a removable closure adapted to be placed upon said flange, a water tank supported in said casing above said trough and being spaced from the walls of the casing to provide a heat chamber around the tank, the bottom of the tank being provided with a funnel shaped depending nozzle having a valve seat therein, a vertical pipe extending through the tank and having its lower end apertured and arranged in contact with the funnel shaped nipple of the tank and its upper end extended through the water tank and provided with a funnel shaped member which is arranged within the flange of the top of the casing in slightly spaced relation thereto, a support arranged in said funnel shaped member, a valve stem extending through the vertical pipe and having a valve on its lower end adapted to seat in the nozzle to cut off communication between the tank and trough when the former is being filled and the upper end of said stem being provided with means engageable with said support for retaining the valve off of its seat.

1,458,451. RECORDING APPARATUS FOR VEHICLES. ANTHONY F. WALLBILLICH, Newark, N. J. Filed May 16, 1918. Serial No. 234,869. 8 Claims. (Cl. 234—31.)



1. In recording apparatus for vehicles, a shaft operatively connected to a moving part of the vehicle, a record tape, actuating connections between said shaft and said tape for driving the latter in unison with the vehicle, a centrifugal device operatively connected to said shaft, a marker operatively connected to said centrifugal device for producing on said surface a record of the speed of the vehicle, a second marker, an actuating rod therefor provided with parallel racks, a clock mechanism and a mutilated pinion driven thereby and adapted to engage said racks alternately to cause the second marker to oscillate periodically over the tape.

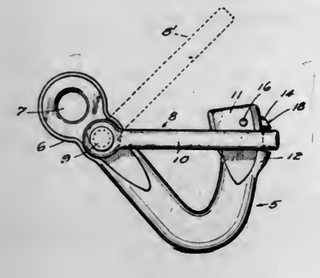
1,458,452. CYLINDER-CAPPING DEVICE. WILLIAM WESTBURY, Caney, Kans. Filed Jan. 19, 1922. Serial No. 530,479. 7 Claims. (Cl. 49—50.)



4. An electrical cylinder cracking device comprising a cracking wire, means insulating portions of the wire from each other, and means for passing a current through one portion of the wire independent of another.

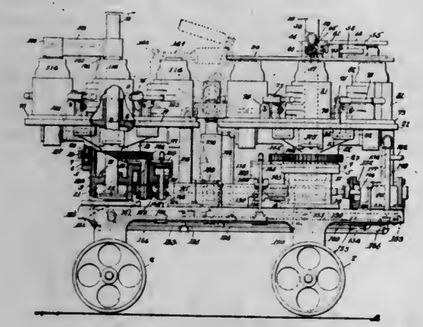
1,458,453. SAFETY HOOK. FRANK A. YOUNG, Sultan, Wash., assignor of one-half to Kenneth S. Startup, Sultan, Wash. Filed June 1, 1922. Serial No. 565,113. 3 Claims. (Cl. 24—241.)

1. The combination with a hook, of a substantially U-shaped link pivotally connected to the hook shank and arranged to be swung into position to extend across the hook opening to embrace the hook-bill, and a spring-



pressed bolt mounted in the hook-bill and engageable against the upper surface of the link for releasably securing the link in its engaged position.

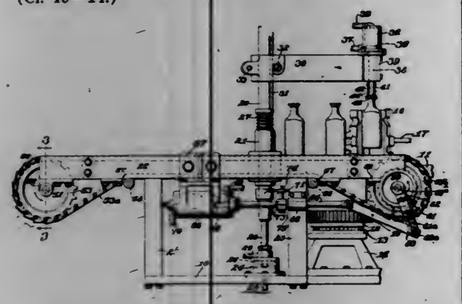
1,458,454. GLASS-BLOWING MACHINE. JAMES M. YOUNG, Anderson, Ind., assignor to Obear-Nester Glass Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 21, 1916. Serial No. 126,935. 23 Claims. (Cl. 49—5.)



4. In a glass blowing machine, the combination with a blank mold, and a neck pin, of a combined shearing plate and blow head, means for raising and lowering the same relative to the blank mold, means for automatically shifting the shearing plate to sever a gather, and pack it within the blank mold and around the neck pin, said shearing plate having an aperture therein movable into communication with the blank mold after the gather has been sheared, and means controlled by the movement of the shearing plate for placing said aperture in communication with a source of pressure, and pressure operated means for withdrawing the neck pin from the gather.

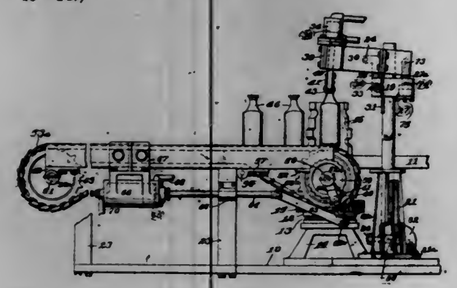
22. A transfer device for a semi-automatic bottle-blowing machine in which bottle blanks are formed at one point with the necks down and are blown into finished bottles at another point with the necks up, comprising means for transferring the bottle blank from the blank forming to the bottle-blowing portion of the machine, said transferring means including means for grasping the bottle blank at the lower neck portion, means active during the transfer operation to invert the bottle blank, and means for elevating the neck of the bottle blank to compensate for the inversion.

1,458,455. TAKE-OUT AND DELIVERY DEVICE FOR GLASS-BLOWING MACHINES. JAMES M. YOUNG, East St. Louis, Ill., assignor to Obear-Nester Glass Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 10, 1919. Serial No. 336,821. 7 Claims. (Cl. 49—14.)



7. In a glass blowing machine, the combination of a movably mounted mold, a take-out mechanism comprising an upright shaft having a cross-arm adjustably secured thereto for rotation therewith and adapted to overhang the mold in one position of its movement, means for intermittently rotating said shaft, a piston mounted on the outer end of said cross-arm, and article grasping fingers pivotally supported on said piston, said cross-arm having cam slots engaged by said fingers, whereby upward movement of the piston will raise the fingers and cause them to separate, and downward movement of said piston will lower said fingers and cause them to be brought together.

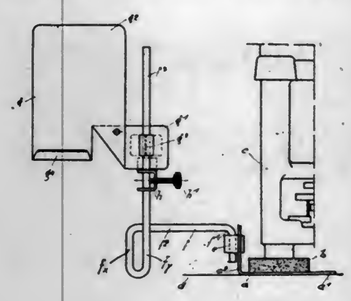
1,458,456. TAKE-OUT AND STEADYING DEVICE FOR GLASS-BLOWING MACHINES. JAMES M. YOUNG, St. Louis, Mo., assignor to Obear-Nester Glass Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 26, 1920. Serial No. 376,649. 11 Claims. (Cl. 49—14.)



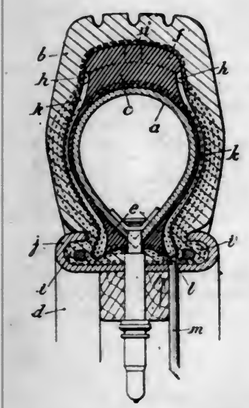
11. In a glass blowing machine, the combination of a movably mounted mold and a device for conveying articles removed therefrom, a take-out mechanism for removing an article from said mold and depositing said article upon said conveying device, and means for steadying the article in said mold prior to its engagement by said take-out to remove the article from the mold and after said mechanism has deposited the article on said conveying device.

1,458,457. COPY CARRIER FOR WRITING MACHINES, ADDING MACHINES, AND THE LIKE. LOUIS FRÉDÉRIC AMEZ-DROZ, Geneva, Switzerland. Filed Mar. 11, 1921. Serial No. 451,549. 3 Claims. (Cl. 120—28.)

3. A copy carrier for writing, adding and the like machines comprising a supporting member attached to the machine, an arm pivotally mounted on said supporting member, a plate with a bottom flange, a part of said plate bent back upon itself to form a lateral extension thereof and a socket integral with said plate, mounted on said arm and kept in position by a clamp and locking screw.

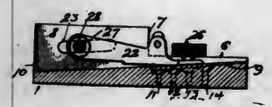


1,458,458. PNEUMATIC TIRE. MARIE JOSEPH CAMILLE ANDRÉ, Paris, France. Filed Mar. 13, 1922. Serial No. 543,437. 1 Claim. (Cl. 152—13.)



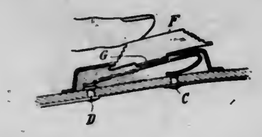
A pneumatic tire comprising an external cover having retaining beads formed with apertures, an intermediate envelope mounted in the cover and having a thick tread formed with transverse peripheral grooves which communicate with annular grooves formed in the sides of the tread, air passages connecting the annular grooves with the apertures in the cover, and yielding partitions centrally arranged in the transverse grooves operable during the running of the tire to cause an ingress and egress of air through the apertures.

1,458,459. TOOL FOR GRINDING ELECTRICAL CONTACT POINTS. NILS ALFRED ANDERSON, New York, N. Y. Filed Oct. 20, 1921. Serial No. 509,092. 4 Claims. (Cl. 51—216.)



1. A tool for refacing contact points, comprising a base or holder having aligning tracks for guiding a resurfacing tool, said base having a plurality of apertures adapted to receive therein a contact holding screw, and opening at different levels with respect to the base, whereby said base is adapted to hold said screw at different elevations relatively to said tracks in said several apertures, said tracks serving as a stop for the resurfacing tool when the latter has resurfaced the contact point of a member held in one of said apertures.

1,458,460. SWITCH FOR PORTABLE LAMPS. ARTHUR G. ARNOLL, Glendale, Calif., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1919. Serial No. 324,487. 10 Claims. (Cl. 200—60.)

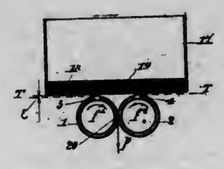


1. A switch for portable electric lamps and like devices comprising a casing, a pair of terminals therein, a bent spring secured to one terminal and having its free end over the other, a movable member or finger piece slidable over a slot in the top of the casing and depressible downwardly relative to the top of the casing and through the slot, said member having a projection which encounters the spring when the said movable member is forced to one side and depresses its free end into contact with the underlying terminal.

1,458,461. PROCESS FOR BLEACHING BARYTES. LORENZ KNEEDLES AYERS, St. Louis, Mo. Filed Apr. 15, 1922. Serial No. 553,166. 2 Claims. (Cl. 252.)

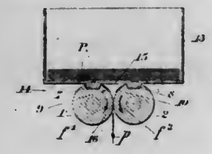
1. The process of bleaching barytes consisting in subjecting the ground barytes to the bleaching action of sulphuric acid solutions under pressures greater than atmospheric.

1,458,462. APPARATUS FOR EFFECTING THE EXTRACTION SUCCESSIVELY OF SHEETS OF PAPER CONTAINED IN A MAGAZINE, AND FOR FOLDING SUCH SHEETS. ROGER BRAUNSTEIN, Paris, France. Filed July 20, 1921. Serial No. 486,254. 1 Claim. (Cl. 270—68.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



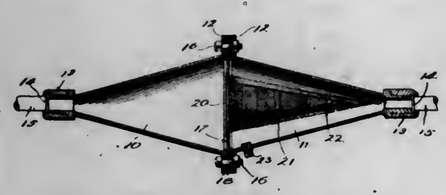
The combination with a magazine for holding a stack of thin sheets of paper and having an opening in its bottom, of means for extracting said sheets successively from the bottom of the stack through said opening and folding them, comprising two parallel cylinders arranged directly beneath the opening in the bottom of the magazine, and means connected with the interiors of said cylinders for alternately exhausting the air therefrom and opening them to the atmosphere at certain stages in their revolution, each of said cylinders having distantly spaced holes therein of small diameter and disposed along a line parallel to its axis and said cylinders being geared together and driven so that their upper surfaces move inwardly towards one another.

1,458,463. APPARATUS FOR EFFECTING THE GRIPPING, THE EXTRACTION, AND THE FOLDING OF SHEETS OF PAPER CONTAINED IN A MAGAZINE. ROGER BRAUNSTEIN, Paris, France. Filed July 20, 1921. Serial No. 486,255. 1 Claim. (Cl. 270—68.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



The combination with a magazine for holding sheets of thin paper in a pile and having an opening in its bottom, of means for gripping said sheets one by one and extracting them through said opening and folding them, comprising two parallel cylinders 1, 2 arranged directly beneath said opening, said cylinders being provided in their surfaces with narrow strips 7, 8 of friction material extending longitudinally of said cylinders, said cylinders being further provided adjacent said strips 7, 8 with narrow strips 9, 10 of plastic material, said cylinders being geared together in such manner that when they are driven with their upper surfaces turning toward each other, said strips 7, 8 will simultaneously frictionally engage through said opening the bottom surface of the bottom sheet in said magazine and in extracting it through said opening give it a buckle which is then gripped by the plastc strips 9, 10 to complete the folding.

1,458,464. STRAINER. DE FOREST BYERS, Clear Lake, Iowa. Filed Oct. 29, 1921. Serial No. 511,302. 2 Claims. (Cl. 210—164.)

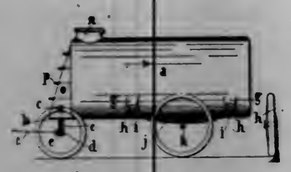


1. A strainer including a two-part casing of which the parts are of similar conical form and construction, each having a flange around its larger end and tube attaching means at its opposite smaller end, a rigid strainer plate removably clamped between the flanges of the casing parts and reversible therebetween, having a central opening, and conical screen members telescoping one another in spaced apart relation and secured upon one face of said plate around the opening for extension into either part of the casing.

1,458,465. TRAILER BOX AND TANK CAR. HENRI COANDA, Paris, France. Filed June 7, 1920. Serial No. 387,169. 2 Claims. (Cl. 280—5.)

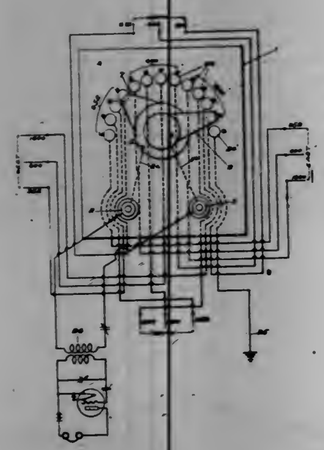
1. In a tank car, a cistern body, stops depending from the lower rear portion of said body, an axle arranged to

move freely between said stops in a vertical plane, collars on said axle arranged at the opposite ends of the stops,



resilient elements interposed between the collars and the adjacent faces of the stops, and means resiliently connecting the axle with the body.

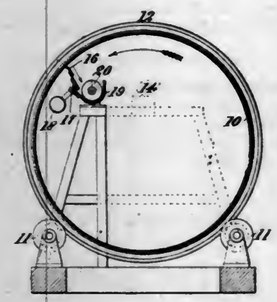
1,458,466. ANTENNA SELECTOR SWITCH. ALFRED CROSSLEY, Washington, D. C. Filed July 7, 1919. Serial No. 309,173. 2 Claims. (Cl. 250—11.)



1. In combination a plurality of groups of independent directional collectors of radio signals, the collectors of each group having different wave length characteristics but having the same direction, and a rotary selector switch having contacts to which the collectors are connected, the said contacts being grouped and marked to indicate the directional and wave length characteristics of the collectors.

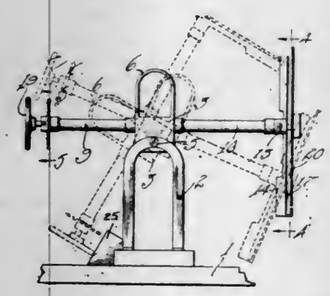
1,458,467. METHOD OF AND APPARATUS FOR CONCENTRATING ORES. SAMUEL H. DOLBEAR, San Francisco, Calif., assignor of one-half to Edwin Letts Oliver, San Francisco, Calif. Filed Nov. 4, 1919. Serial No. 335,664. 17 Claims. (Cl. 83—85.)

1. A method of separating from gangue or waste those mineral particles which exhibit a preferential wetting by selective reagents, consisting of treating a suitable pulp containing such mineral particles with a selective reagent, bringing the pulp so treated into contact with a solid collecting element which exhibits a preference for selective reagents, and maintaining the portion of the



element presented to the pulp relatively free from the selective reagent.

1,458,468. GAME. ROBERT DONER, Chicago, Ill. Filed Oct. 5, 1922. Serial No. 592,650. 3 Claims. (Cl. 46—56.)

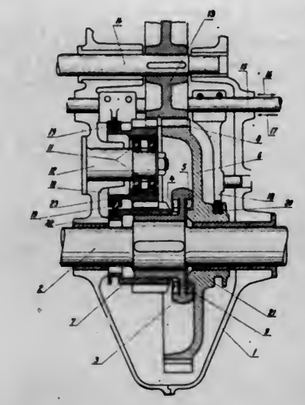


1. A device of the character described comprising a movable dial, a movable indicator hand for said dial, means for manually moving said dial and said hand independent of one another and means for moving said dial into engagement with said hand, whereby the dial and the hand become set against movement relative to one another and both may come to a quick standstill.

1,458,469. CHANGE-SPEED DEVICE. PIERRE DONON, Paris, France, assignor to Etablissements Baudet & Donon, Paris, France. Filed Nov. 26, 1921. Serial No. 517,901. 4 Claims. (Cl. 74—59.)

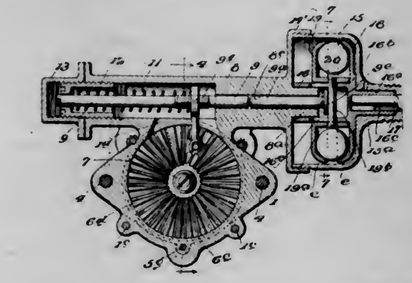
1. A change speed gear having two ratios and its gear wheels constantly in mesh comprising in combination, a driving shaft, a common driving gear keyed to said shaft, a driven shaft, a double faced gear clutch disk keyed to the driven shaft, two final gears corresponding to the two ratios loosely mounted on the said driven shaft and constantly actuated by the common driving gear, one of the final gears having a single set of spur gear teeth for

simultaneously engaging a gear which turns it, and the double faced gear clutch disk, and means for shifting



respectively the final gears along the driven shaft whereby either of the gears is caused to engage the said clutch disk.

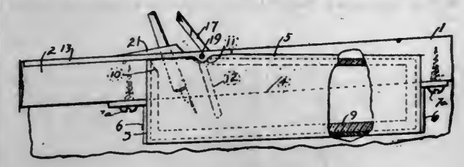
1,458,470. SPEED GOVERNOR. WILLIAM S. DORMAN, Brooklyn, N. Y., assignor to Ross G. Leonard, Brooklyn, N. Y. Filed Aug. 12, 1920, Serial No. 403,104. Renewed Sept. 2, 1922. Serial No. 586,023. 10 Claims. (Cl. 264—17.)



1. A speed limiting device comprising a valve casing at one end having a longitudinally-projecting boss with an exterior cylindrical bearing surface, a throttling valve movable in said casing to control the motive fluid passage therethrough, a spring in the casing normally holding said valve in open position, a housing removably secured to the end of the casing having said boss, a centrifugal governor within said housing and removable therewith, said housing providing a bearing for said governor, said governor also removably fitting and rotating on said boss, the outer end of said housing having a longitudinal bearing opening for the reception of driving means for said governor, and means extending through said boss for operatively connecting the governor and valve.

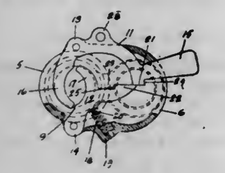
1,458,471. INKWELL. VICTOR DORNBERGER, San Jose, Calif. Filed Feb. 10, 1921. Serial No. 443,960. 5 Claims. (Cl. 120—72.)

1. An ink well for desks, comprising a receptacle, a top plate having an opening through which access is gained to the ink receptacle, a sectional cover for the receptacle, the sections of which are pivoted independently in the opening of the top plate, and normally



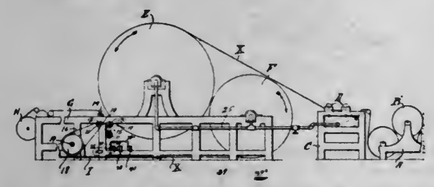
nesting cam fingers carried by the cover sections whereby upon tilting one section to open the same the companion section will concurrently open.

1,458,472. HAND-ROPE LOCK FOR ELEVATORS. EDWARD L. DUNN, East Orange, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 534,849. 9 Claims. (Cl. 187—46.)



7. An elevator lock comprising a pair of levers, one lever having a jaw arm and another arm on one and the same side of the pivot for the lever with a cam projection thereon between the said two arms, the other lever having a jaw arm, a cam projection and a handle arm, the cam projection being between the handle and jaw arm and said cam projections adapted to coact with each other and to be moved across each other's surface in moving the jaw arms to their operative and inoperative positions.

1,458,473. RENOVATING ATTACHMENT FOR SLASHERS. LEWIS L. EVANS, Lancaster, S. C., assignor of one-half to Olen W. Connor, Concord, N. C. Filed Dec. 10, 1921. Serial No. 521,474. 4 Claims. (Cl. 28—28.)

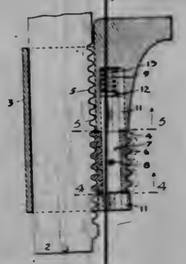


1. The combination with a slasher having drying drums, of rapidly revolving brushes disposed on opposite sides of the yarn passing from said drum, and means disposed in advance of said brushes and between the brush and the drum for spraying lubricant in a heated and finely divided condition against the yarn.

1,458,474. WRENCH. JOHN H. FONES, Oakland, Calif. Filed Apr. 26, 1922. Serial No. 556,640. 5 Claims. (Cl. 81—158.)

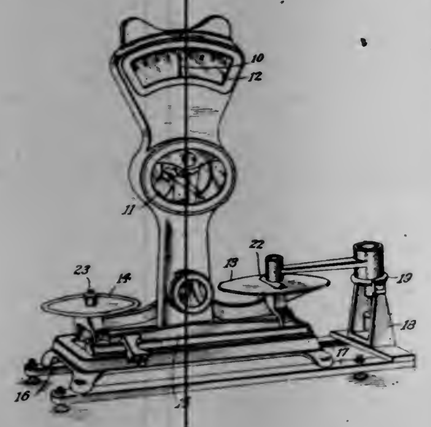
1. A wrench comprising a handle having a rack and a jaw thereon, a second jaw slidable upon the handle and having a recess therein permitting access to the rack, said movable jaw having a bore therein, a pin movable bodily within the bore, a rib on said pin, said

jaw having a groove opening into the bore and adapted to receive said rib to permit movement of the pin towards and away from the rack and a worm on the pin



and adapted to be moved into and out of engagement with the rack and rotated while in contact with the rack.

1,458,475. ATTACHMENT FOR WEIGHING SCALES. EDWARD G. FREED, Dayton, Ohio, assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Apr. 1, 1921. Serial No. 457,639. 7 Claims. (Cl. 73—51.)



1. In an apparatus of the class described, an even balance weighing scale having an automatic counter-balance, an over and under chart and cooperating pointer and weight pans, in combination with means for supporting an article to be standardized comprising a pivot-like support carried by one of the weight pans, and a supplementary pivotal support remote from the weight pan, said supports conjointly supporting the article to be standardized whereby a portion of the weight thereof reacts upon the supporting weight pan of the scale.

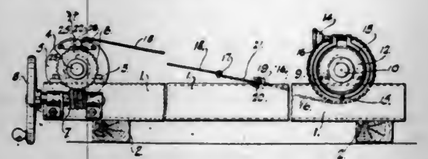
1,458,476. APPARATUS FOR PLYING UP TIRE FABRIC. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 31, 1921. Serial No. 473,573. 11 Claims. (Cl. 164—78.)

1. Apparatus for plying up tire fabric comprising means for supporting successive lengths of the work in a longitudinal space corresponding to the circumferential length of a tire, means defining said longitudinal space, and a set of markers adapted to be moved individually



into marking position intermediate the first said markers to represent corresponding points on successive lengths of the work.

1,458,477. METHOD FOR APPLYING SHEETS TO PRINTING CYLINDERS. WILLIAM GAMBLE and MALCOLM OWEN, London, England; said Gamble assignor to A. W. Penrose and Company Limited, London, England. Filed Sept. 8, 1922. Serial No. 587,014. 3 Claims. (Cl. 101—415.1.)

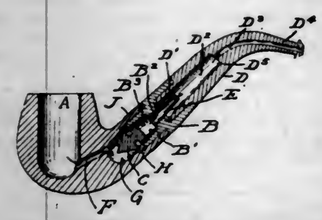


1. A method of applying sheets for use as a printing surface to printing cylinders, wherein one end of the sheet is attached on one side of the gap of the cylinder and the sheet is stressed mechanically under tension tangentially to the cylindrical surface, the cylinder being held against rotation during the initial straining and then while the strain is maintained, rotated to warp the sheet tightly around it, whereon the other end of the sheet is fixed within the gap aforesaid.

1,458,478. PROCESS OF PRODUCING A CATALYST FROM VANADIUM PENTOXIDE AND THE PRODUCT THEREOF. HARRY D. GIBBS, Penns Grove, N. J., dedicated, by mesne assignments, to the Government of the United States and to the people thereof. Filed Nov. 28, 1921. Serial No. 518,452. 3 Claims. (Cl. 23—28.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

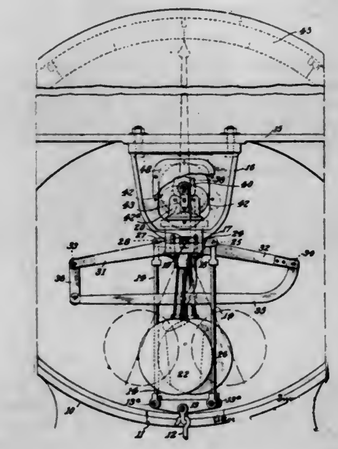
1. In the production of catalyzers from vanadium pentoxide, the steps of fusing the same and crushing the product.

1,458,479. SMOKING PIPE. ROBERT C. GIBBONS and THEODORE K. FELCH, Jersey City, N. J. Filed Feb. 24, 1920. Serial No. 360,718. 2 Claims. (Cl. 131—12.)



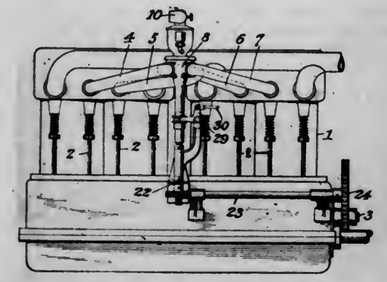
1. A pipe comprising a bowl having a restricted outlet, a stem made in separable sections and having a continuous channel extending therethrough and in communication with said outlet, said channel having an enlargement adjacent the outlet and an enlargement removed therefrom and toward the outer end of the stem, a removable baffle between said enlargements having an imperforate conical portion pointed toward said outlet, so constructed and arranged as to permit the passage of smoke and other combustion products between the walls of the pipe and the base of the conical portion, a diaphragm portion connected with said conical portion spanning the bore of the channel, said diaphragm having restricted passages therethrough between which and the outlet the conical portion is interposed, and a member outward of said baffle extending into the outer enlargement and beyond the lower portion of the same having a passage way communicating with said diaphragm passages and said last named enlargement.

1,458,480. PENDULUM SCALE. WILLIAM NATHAN GILBERT, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Apr. 11, 1921. Serial No. 460,186. 10 Claims. (Cl. 265—62.)



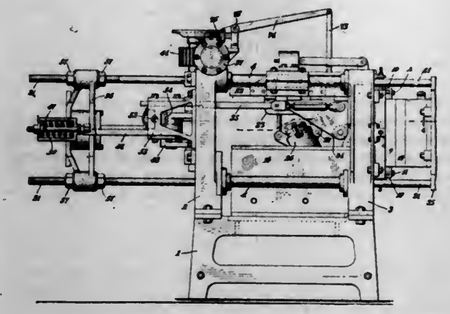
1. In a weighing scale in combination, a pair of pendulums mounted in pivotal alignment with each other, an equalizer bar having links connecting the same to said pendulums, an indicator driving device comprising a member coupled to both of said pendulums and elevated and lowered thereby, and a rack connected to said member for driving a pivotal indicator.

1,458,481. INTERNAL-COMBUSTION ENGINE. JOHN GOOD, Garden City, N. Y. Filed Aug. 15, 1914, Serial No. 856,906. Renewed July 2, 1921. Serial No. 482,193. 15 Claims. (Cl. 123—52.)



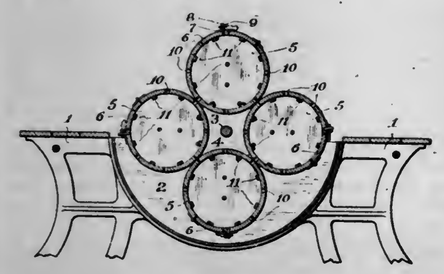
1. A multi-cylinder engine comprising engine cylinders, each having an intake valve and a separate intake pipe, a liquid fuel and air mixing device common to all of such intake pipes and means between such device and the intake pipes for successively connecting the device with the said pipes, the said device and pipes being inclined downwardly to drain toward the engine cylinders.

1,458,482. DIE-CASTING APPARATUS. CHARLES M. GREY, East Orange, N. J. Filed Apr. 7, 1919. Serial No. 288,082. 26 Claims. (Cl. 22—69.)



1. In a die casting machine, a sprue-die supporting plate, an ejector-die supporting plate, and operating means for effecting relative movement between said plates, said sprue-die supporting plate being positioned between the ejector-die supporting plate and said operating means.

1,458,483. MACHINE FOR SCALDING FUR-NAPPED BODIES. GEORGE GROVER, South Norwalk, Conn., assignor of one-half to James Delohery, Danbury, Conn. Filed Apr. 18, 1922. Serial No. 555,143. 5 Claims. (Cl. 28—7.)

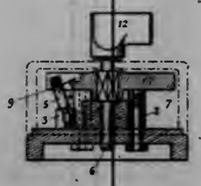


1. In a machine for scalding napped felt bodies, a scaling tub adapted to contain water at suitable temperature, a frame supporting the tub, a rotary shaft journaled on the frame, and a series of hollow perforated cylinders carried by said shaft in radial disposition thereto and provided with internally projecting lags, said cylinders during their orbital travel around said shaft being continuously submerged within and emerged from the water in the tub.

1,458,484. ELECTRIC ROTARY SWITCH. FRANZ PAUL HABICHT, Schwanden, Switzerland, assignor to the Firm "Therma," Fabrik für Elektrische Heizung A.-G., Schwanden, Canton of Glarus, Switzerland. Filed Aug. 25, 1921. Serial No. 495,328. 9 Claims. (Cl. 200—155.)

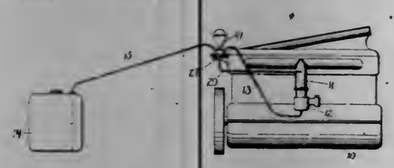
1. An electric rotary switch, in which the contact is formed by at least one movable contact member,

adapted to be swung round the axes of rotation and elastically resting against two fixed contact members, the distance between the latter being bridged over by the movable contact member, characterized by the fact that the movable contact member itself is rotatable on



a geometrical axis, situated between its points of contact and parallel or approximately parallel with the axis of rotation of the switch, in such a manner that said movable contact member rolls on one of the two fixed contact members, for the purpose of ensuring the rupture of the spark.

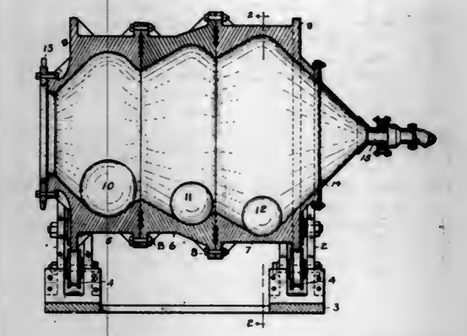
1,458,485. FUEL-FEED SYSTEM. ERNEST R. HUNTLEY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 19, 1920. Serial No. 367,283. 4 Claims. (Cl. 240—36.)



1. In a liquid feed system, a diaphragm pump including a diaphragm, a casing in which said diaphragm is clamped at its periphery, fluid inlet and outlet connections in said casing at one side of said diaphragm, the opposite side of said casing having a constricted continuously open port adapted to be connected to a suction producing means, and having a relatively enlarged port to the atmosphere, an outwardly opening check valve for said latter port, means actuated by the diaphragm for opening said check valve, the operation of said means being delayed until after the diaphragm has moved a substantial distance beyond neutral position.

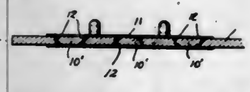
1,458,486. PULVERIZER. CHARLES A. KLOMAN, Bellevue, Pa. Original application filed June 25, 1919, Serial No. 306,612. Divided and this application filed Mar. 1, 1922. Serial No. 540,151. 1 Claim. (Cl. 83—9.)

A pulverizer comprising a shell mounted for rotation about an axis, means for rotating the shell, the shell being open from end to end and completely closed circumferentially along its sides, the shell being provided at its interior with a series of annular raceways disposed transversely of the axis of the shell, the raceways increasing in diameter from the inlet end of the shell toward the exit thereof, each raceway having a transverse arcuate intermediate wall surface and synclined side wall surfaces, the said side wall surfaces which are disposed toward the inlet opening of the casing and of the initial and intermediate raceways being of greater area and greater transverse breadth than the said side wall surfaces which are disposed toward the exit end of the casing, the side wall surface of the final raceway which is disposed toward the exit opening of the casing being of greater area and transverse breadth than the side wall surface thereof which is disposed toward the inlet opening of the casing, the edges of the side wall surfaces of the adjacent raceways merging with each other at angles to each other, the radius lengths of



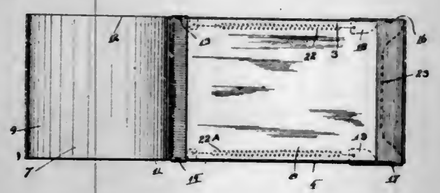
the arcuate surfaces of the raceways increasing from the initial to the final raceway and a ball loosely resting in each raceway, the length of the radius of each ball corresponding with the length of the radius of the arcuate surface of its respective retaining raceway.

1,458,487. FASTENER FOR METAL CLIPS. MAX KRISCHER and CHARLES ROSENBLUM, Brooklyn, N. Y. Filed May 15, 1922. Serial No. 561,119. 1 Claim. (Cl. 24—265.)



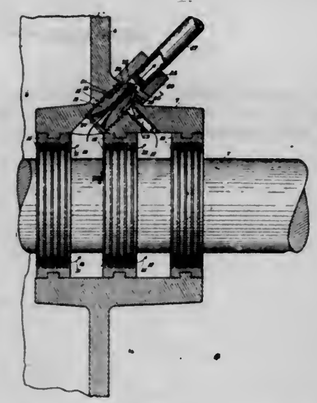
A clip of sheet metal and of U-shape in cross section and having two flat side portions bendable toward each other on the opposite sides of a support, one side portion having stamped therefrom a pair of triangular prongs having sharp points projected through the support and toward and clinchable against the other side portion when the clip is bent as aforesaid and having their bases parallel insuring that the points when so clinched will be directed toward each other embracing a portion of the support, and the other side portion having stamped therefrom, on opposite sides of the prongs aforesaid, two pairs of prongs, similar in construction and function to the pair first mentioned, whereby the grip on the engaged support of any pair of prongs is reenforced by the grip thereon of the next adjacent pair of prongs.

1,458,488. DESK PAD. AMOS M. LEE and ELMER J. HAGREEN, Rochester, N. Y. Filed Sept. 20, 1921. Serial No. 502,066. 3 Claims. (Cl. 281—6.)



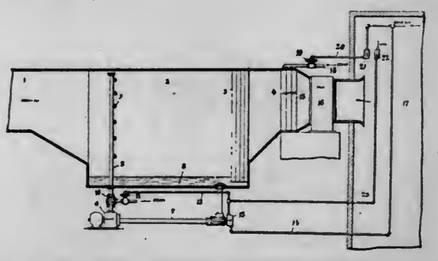
1. In a desk pad, the combination of a receptacle, a writing table formed at one end of said receptacle, said receptacle having a pocket formed therein to receive a roll of paper from which a continuous web of paper may be drawn over said writing table, horizontally movable clamping means at the free end of said writing table, said clamping means being adapted to move away from said table, said clamping means being adapted to hold the free end of the paper web against said writing table and permit the end of the paper web to move away from said writing table with said clamping means on the operation of said clamping means.

1,458,489. STEAM PACKING. HENRY B. LEE, New London, Conn., assignor to The D. E. Whiton Machine Company, New London, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,671. 4 Claims. (Cl. 286—9.)



3. A steam-packing comprising a casing, a bushing, a shaft passing through the same, three packing-rings spaced apart in the said bushing to form a primary expansion-chamber into which steam from the casing is introduced and a secondary expansion-chamber into which steam leaks from the said primary expansion-chamber through the intermediate packing-ring, and an ejector-plug mounted in the said bushing and connected with both of the said chambers for the exhaustion of the latter through energy derived from the steam entering the former from the said casing.

1,458,490. HUMIDIFYING-APPARATUS CONTROL. ADOLPH W. LISSAUER and WALTER L. FLEISHER, New York, N. Y., assignors to W. L. Fleisher & Co. Inc., New York, N. Y., a Corporation of New York. Filed Dec. 17, 1919. Serial No. 345,647. 3 Claims. (Cl. 236—44.)

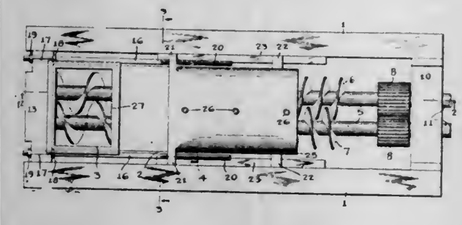


3. In combination with an enclosure, a humidifying apparatus control comprising a chamber through which air may be circulated before it enters the enclosure, a humidity control associated with the chamber, a heater for preheating the air coming from the chamber to the enclosure, a thermostat in the enclosure for controlling the heater, a second thermostat in the enclosure connected to the humidity control to prevent the operation of the said humidity control until a predetermined temperature is built up in the enclosure by the heater, substantially as and for the purposes set forth.

1,458,491. METHOD OF MAKING OXIDIZED AROMATIC SUBSTANCES. RALPH H. MCKEE, New York, and HERMON C. COOPER, White Plains, N. Y.; said Cooper assignor to said McKee. Filed Nov. 12, 1919. Serial No. 337,558. 6 Claims. (Cl. 260—108.)

6. The process of making benzoic acid which consists in treating toluene in liquid form with a mixture of chromic acid, water and sulphuric acid, the toluene treated being in excess of its combining proportion with the chromic acid of said mixture.

1,458,492. APPARATUS FOR MIXING. PAUL L. MATHEWS and RICHARD M. WILLIS, Newark, N. J. Filed Nov. 19, 1920. Serial No. 425,257. 5 Claims. (Cl. 259—9.)



1. A mixing and fluxing apparatus comprising a tubular casing member and a pair of cooperating intermeshing and interacting worms or screws therein, said casing having a receiving opening at one end and a discharge opening at the other end, said tubular casing being in cross-section in the form of the numeral 8, there being one of said screws in each lobe of the 8, which screws are characterized by having the pitch of the flights or spirals on each gradually decreasing in passing from the receiving opening toward the discharge opening, the apparatus having means whereby said screws rotate in the proper direction relative to each other, and also having means for effecting a relative longitudinal adjustment between the screws on the one hand and the effective body portion of the casing which co-operates with the screws on the other.

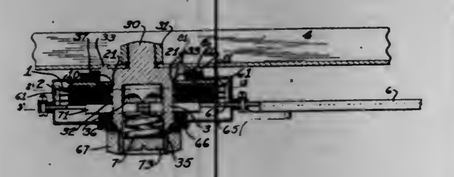
1,458,493. VARNISH COMPOSITION. LOUIS MAUERHOFER, New York, N. Y. Filed Jan. 22, 1923. Serial No. 614,294. 1 Claim. (Cl. 134—26.)

As an article of manufacture, a varnish of the character designated, composed of coal tar, benzine and nitric acid in substantially the relative proportions herein specified.

1,458,494. SHOCK ABSORBER. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed Jan. 25, 1922. Serial No. 531,574. 6 Claims. (Cl. 188—130.)

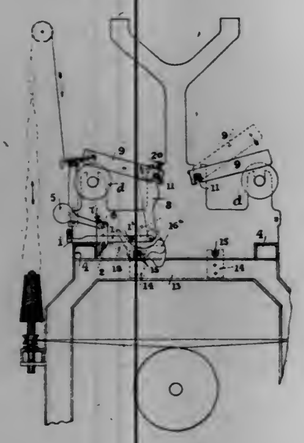
1. In a shock absorber, in combination, two series of relatively oscillatable friction plates adapted to be connected to relatively movable vehicle parts, a hub sleeve

mounted concentrically of said plates, a spring in the axial bore of said hub sleeve operable to press said series



of plates together, and a nut threaded in an end of said hub sleeve and adjustable to vary the pressure of said spring.

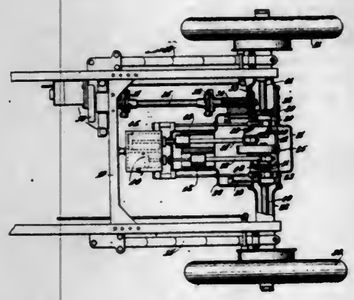
1,458,495. DOUBLING, TWISTING, AND WINDING AND SUCH LIKE MACHINE. JAMES WILLIAM MORRISON and THOMAS WILLIAM HOLT, Staleybridge, England. Filed Aug. 10, 1921. Serial No. 491,068. 5 Claims. (Cl. 242—18.)



1. In yarn doubling, twisting and winding machines a friction drum, bearings therefor, a primary weighting frame having means for supporting a package consisting of a frame, a fulcrum for said frame, a slidable member attached to said frame, a fulcrumed weighting device acting upon said slidable member, and automatically operative loading means combined with said sliding member for varying the constraining effect of said automatically operative loading means during the building up of a cheese or the like.

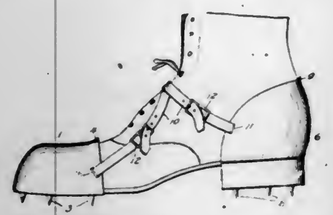
1,458,496. CRANK-SHAFT DIFFERENTIAL GEAR. ALDEN E. OSBORN, New York, N. Y. Filed Dec. 16, 1920. Serial No. 431,107. 3 Claims. (Cl. 180—56.)

1. In a motor vehicle the combination of two traction wheels, a hollow supporting member carrying said wheels adjacent to each of its ends and carrying the propelling engine of the vehicle, springs connected to said hollow supporting member and supporting the framing of the vehicle and an auxiliary apparatus carried by said vehicle framing and means for driving said auxiliary apparatus from the propelling engine of the vehicle on said



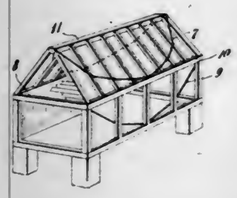
supporting member while yet said supporting member and framing move relatively to each other under the action of said supporting springs.

1,458,497. PROTECTOR FOR FOOTWEAR. CHARLES F. PERKINS, Lake View, Me., assignor of one-half to Mamie Reynolds Perkins, Lake View, Me. Filed Feb. 25, 1922. Serial No. 539,238. 1 Claim. (Cl. 36—63.)



In a protector for footwear, a sole member provided with apertured bottom recesses, an apertured washer fitting in each recess, a plug engaging the apertures of each recess and its related washer and having a lower flange, a headed top and a threaded opening, and a removable calk having a threaded shank engaging said threaded opening and a lower head abutting against said lower flange of the plug.

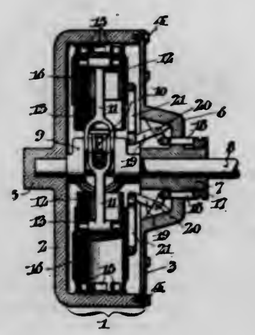
1,458,498. ROOF AND WALL CONSTRUCTION. PAUL M. PIEL, Lake Parlin, Me. Filed July 2, 1919. Serial No. 308,264. 4 Claims. (Cl. 108—23.)



1 In a roof the combination with a ridge pole and an eave structure, of a tension member attached to the ridge pole, and a plurality of rafters across which the

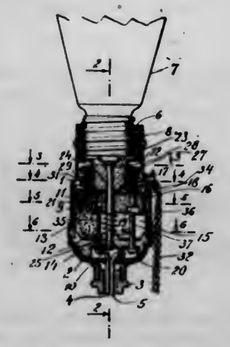
tension member extends and to which it is connected so that it is furthest from the ridge pole midway of its length, with the result that the tension member draws said rafters against the ridge pole.

1,458,499. POWER-TRANSMISSION DEVICE. JOSHUA C. PRATT, Framingham, Mass. Filed Apr. 9, 1921. Serial No. 460,056. 3 Claims. (Cl. 192—60.)



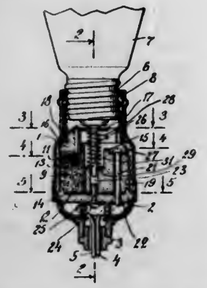
1. A hydraulic, power transmission device comprising a rotary casing, a plurality of cylinders fixed to the inner periphery of the casing and extending radially in an inward direction, each cylinder having a series of apertures formed adjacent its outer end, a sleeve embracing each cylinder and slidable longitudinally to vary the aperture of said openings, a concentric shaft having a crank portion, pistons slidable in the cylinders with piston rod connections to the crank portion, and means for simultaneously shifting the sleeves.

1,458,500. RHEOSTAT. FLORICEL A. ROJAS, New York, N. Y. Filed Nov. 18, 1921. Serial No. 516,134. 30 Claims. (Cl. 219—50.)



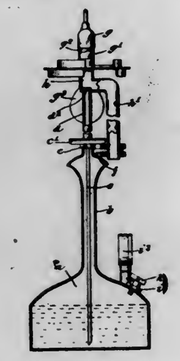
1. A rheostat comprising the combination of a movable member and compressible resistance material secured to said member, the conductivity of the resistance material immediately adjacent the member being normally greater than that of the rest of the material.

1,458,501. RHEOSTAT. FLORICEL A. ROJAS, New York, N. Y. Filed Nov. 18, 1921. Serial No. 516,135. 6 Claims. (Cl. 219—50.)



1. In an electric light socket designed to seat an attachment plug, the combination of a compressible resistance rheostat within the socket and forming a part thereof, and means for compressing the resistance material of the rheostat by means of the plug.

1,458,502. HYDROCARBON-VAPOR GENERATOR. WILLIAM RUFF, New York, N. Y. Filed July 25, 1919. Serial No. 313,337. 5 Claims. (Cl. 67—50.)

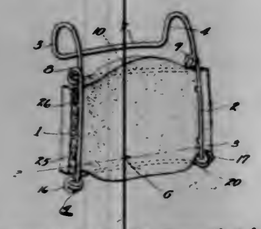


1. A hydrocarbon vapor generator embodying therein in combination, an oil supply tank, a burner, a vaporizer tube having a thin wall and a discharge opening therefrom, composed of an outer shell of a metal having high tensile strength, and an inner shell of aluminum, both of said shells having closed ends and an aluminum plug mounted in said closed end, said plug having a minute discharge opening therethrough communicating with the interior of the tube, said tube being so positioned as to be subjected to the radiant heat from the burner, means whereby an air cushion may be developed in said tank, and a pipe connection between said tank and said tube, whereby oil under pressure will be delivered to said tube.

1,458,503. BATHTUB HEAD CUSHION. DAVE SCHER, Tacoma, Wash., assignor of one-half to Jack Thielman, Tacoma, Wash. Filed June 20, 1921, Serial No. 478,853. Renewed Apr. 25, 1923. 3 Claims. (Cl. 4—2.)

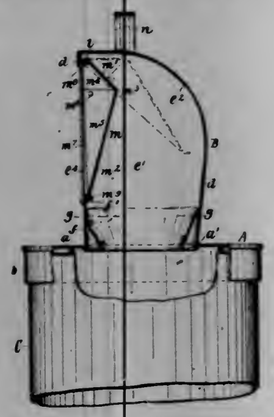
1. A device of the class described, comprising a supporting frame having hooks at its upper edge whereby the frame can be suspended within a tub from the edge thereof, a cushion removably applied to the frame and

a holding frame for the cushion having hinged connection at its upper end with the supporting frame and comprising side bars that are foldable over the side edges of the



cushion to cooperate with the supporting frame to clamp the cushion in functional position; said side bars having means at their lower ends adapted to be lockingly engaged with the supporting frame.

1,458,504. COVER DEVICE FOR BARRELS AND THE LIKE. PETER SMITH, Newark, N. J. Filed Nov. 5, 1921. Serial No. 513,123. 4 Claims. (Cl. 220—24.)



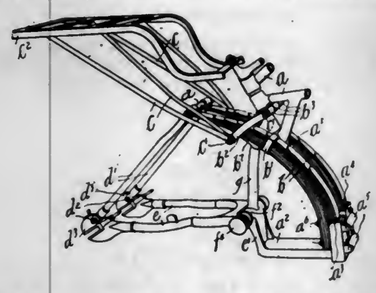
1. A sheet-metal cover device including, in combination, a base-plate having an aperture therein, and a cowl upstanding from the base-plate and having the major upper portion thereof rectangular in plan and the lower portion thereof funnel-shaped and fitted at its base to the aperture in the base-plate, said upper portion having a lateral opening approximating in width and height the width and height of said major upper portion of the cowl.

1,458,505. PLASTIC COMPOSITION FOR FILMS OR FILAMENTS FOR CINEMATOGRAPHIC AND OTHER INDUSTRIAL PURPOSES. WALTER JAMES STEVENSON, London, England. Filed Apr. 2, 1921. Serial No. 458,048. 2 Claims. (Cl. 106—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

2. A non-inflammable film consisting of acetyl cellulose and equal amounts of triacetine and triphenylphosphate in the proportion of from 10 to 30% of the weight of acetyl cellulose.

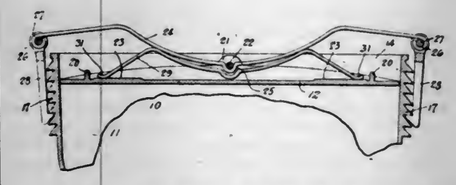
1,458,506. SPRING SUSPENSION FOR MOTOR CYCLES. MAURICE THOMAS GEORGE WESSON, Richmond, Melbourne, Victoria, Australia. Filed Mar. 9, 1922. Serial No. 542,240. 5 Claims. (Cl. 208—97.)

1. In a motor and similar cycles, a horizontal frame bar, a part depending therefrom, a cradle member at the lower end of the depending part, stay bars pivotally connected at corresponding ends to the rear end of the cradle and adapted at their other ends to receive the axle of a wheel, forks pivotally connected at correspond-



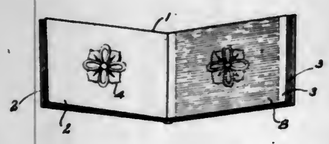
ing ends to the free ends of the stay bars, and springs fixed at one end in the front end of the cradle member and at their other ends pivotally connected to the other ends of the said forks.

1,458,507. MEAT-LOAF COOKER. HANS ADELMANN, New York, N. Y., assignor to Ham Boiler Corp., New York, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,119. 3 Claims. (Cl. 100—57.)



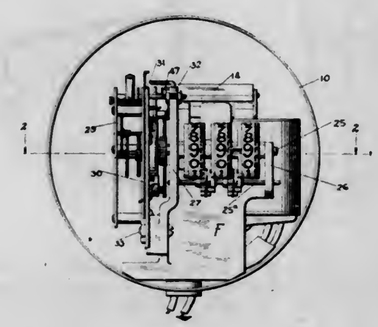
1. In a meat loaf cooker, the combination with a body and a cover therefor movable within the top of the body and having a flat inner surface, of means to lock the cover in position with respect to the body, said cover having a transverse pivot pin carried thereby, said locking means including a hanger of spring metal provided with a central bend having free pivotal embracing engagement with said pin, and members extending from the end portions of the hanger for engagement with the ends of the body.

1,458,508. CLAY-MODELING BOOK. JANET R. AIKEN, Branchville, Conn. Filed July 28, 1922. Serial No. 578,160. 2 Claims. (Cl. 25—12.)



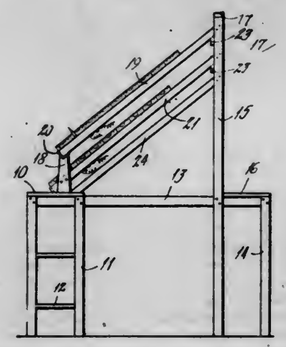
1. A book for use in clay modeling work, which book comprises sets of pages each of which sets when open has a left hand illustrative page and a right hand work page, the left hand illustrative page having thereupon a full representation of an object to be modeled in bas-relief on the opposite work page, which work page has thereupon an outline which is an exact replica of the outlines of the design appearing on the opposite illustrative page, the work surface of the work page also being coated with paraffin to serve as a protective coating.

1,458,509. REGISTERING MECHANISM. WILLIAM ARTHUR, New Haven, Conn. Filed Mar. 27, 1920. Serial No. 369,226. 9 Claims. (Cl. 235—91.)



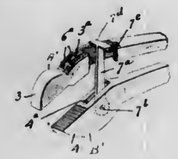
1. A registering mechanism for determining the efficiency of motormen, comprising a clock mechanism having a balance wheel, an electromagnet in circuit with the motor controller, so as to be energized whenever the power is applied, a pivoted armature cooperating with said electromagnet, and a swinging arm mounted independently of the armature but engaged directly by a part thereof, for engaging the balance wheel of the clock to start and stop the clock at the beginning and end respectively of the power period.

1,458,510. VENDING RACK. WILLIAM J. ASHTON, Dallas, Tex. Filed Mar. 20, 1922. Serial No. 544,983. 1 Claim. (Cl. 211—14.)



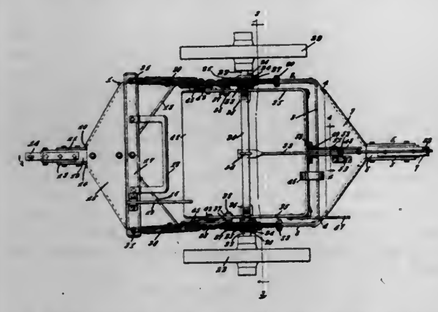
A vending rack comprising a frame structure including a counter and a rear support spaced from and extending above said counter and an elevated platform behind said support, a plurality of short standards mounted on said counter, an inclined display board having its upper end secured to said rear support and its lower end supported by the said standards, said board having a series of parallel longitudinal grooves, each having a curvature for snugly receiving a plurality of cylindrical articles in superposed order, and an arcuate guard adjacent the lower end of each groove in position to overhang the next to the lowermost article, said guard having means holding a price tag in juxtaposition to the articles in said groove.

1,458,511. COMBINATION TOOL. ADOLPH BANGERT, Union Hill, N. J. Filed Sept. 20, 1921. Serial No. 501,973. 2 Claims. (Cl. 7—4.)



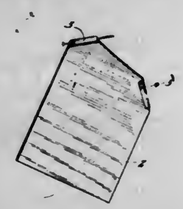
1. In a wrench, a cam-shaped slotted jaw having two sets of teeth along the edges of said jaw, a second jaw having a groove, and a bail in form of a lever fulcrumed in said groove and adapted to project through a slot of the first-named jaw, the free end of said lever being broadened and formed with a knife edge to cooperate with said two sets of teeth in the adjustment of said jaws relative to one another.

1,458,512. WHEEL SCRAPER. FITCH H. BEACH and FRED S. BEACH, Charlotte, Mich. Filed Dec. 13, 1922. Serial No. 606,724. 4 Claims. (Cl. 37—134.)



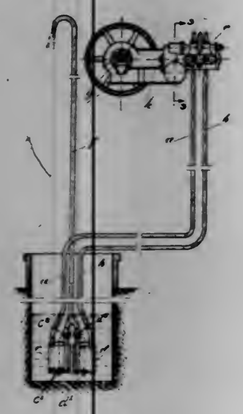
1. In a device of the class described, an arched axle; wheels carried thereby; a frame extended forwardly and rearwardly of the axle; a crank on the axle; a radius arm pivoted to the crank; a flexible member connected to the frame in front of the axle and to the rear thereof, the flexible member extending across the radius arm and including a retractile spring; an operating member connected to the arched portion of the axle; a scoop; and means for suspending the scoop and the frame from the operating member.

1,458,513. METHOD OF PRODUCING ARTIFICIAL FLOWER PETALS. ELLEN W. BELL, Los Angeles, Calif. Filed Jan. 23, 1922. Serial No. 531,125. 2 Claims. (Cl. 41—13.)



1. The method of producing artificial flower petals which comprises: forming a blank of sized fabric; rolling a corner of said blank while the same is wet; and then drying the petal.

1,458,514. COMPRESSED-AIR WATER ELEVATOR. VITTORIO BETTELONI, Florence, Italy. Filed Oct. 22, 1920. Serial No. 418,779. 1 Claim. (Cl. 103—240.)



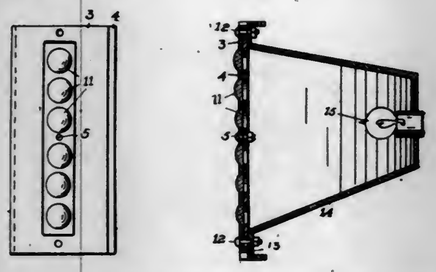
A liquid raising apparatus, comprising in combination, an air compressor, a pair of receptacles having valve-controlled inlets for admission of the liquid to be raised, a distributing chest between the compressor and said receptacles for alternately causing the air to be exhausted from one receptacle and compressed in the other and vice versa, said chest having a chamber in communication with each of the receptacles, a double piston axially slidable in said chest for opening one of said chambers to compression and the other to exhaustion during a part of the operation of the compressor, and reversing such action during the remainder of said operation, and a cam operated by the compressor for reciprocating said double piston.

1,458,515. COIN ASSORTER. JOHN WARD BORING and GEORGE ANDY WAGONER, Gibsonville, N. C. Filed July 16, 1921. Serial No. 485,253. 7 Claims. (Cl. 133—3.)



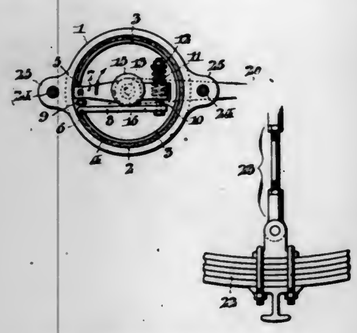
1. An assorting apparatus for coins and the like including in combination a coin receiving tray, an inclined chute communicating with said tray, an inclined holder adjacent said chute, a plurality of coin assorting devices detachably positioned upon said holder and receptacles for the assorted coins.

1,458,516. SIGN. JAMES C. BOYD, Pitcairn, Pa. Filed Sept. 14, 1922. Serial No. 588,233. 1 Claim. (Cl. 40—133.)



A device for the purpose set forth comprising a lamp casing provided with a flange, a lamp mounted in said casing, a plurality of plates detachably secured to said flange, each of said plates consisting of a pair of apertured metal sheets secured together one in advance of the other, said apertures in each plate arranged to designate a digit, a lens clamped in each of said apertures, the lenses of one of said plates being of a color different relatively to the color of the lenses mounted in an adjacent plate substantially as described.

1,458,517. SHOCK-ABSORBING DEVICE. EDMUND S. BRADFIELD, Media, Pa. Filed June 5, 1920. Serial No. 386,762. 4 Claims. (Cl. 188—130.)

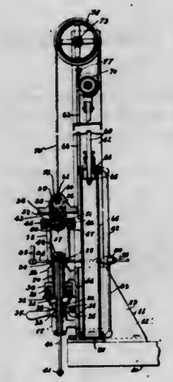


1. A shock absorbing device comprising a casing, a split expansible friction band in said casing, and variably adjustable connections operating between the free ends of said band for moving the same around the casing, one of said connections including a resilient element and exerting pushing pressure on said band when moved in either direction, while the other exerts a pressure on said band when moving one way only.

1,458,518. GLASS-TUBE SPINNING AND DRAWING APPARATUS. LOUIS N. BRUNER, New York, and SIMON D. OLSEN, Brooklyn, N. Y. Filed June 9, 1920. Serial No. 387,638. 11 Claims. (Cl. 49—17.1.)

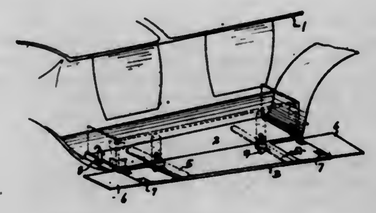
10. In combination, a rotatable spindle; a manual shift lever having a handle for controlling the rotation of said spindle; a mold on the upper end thereof; a lower draw head in the mold; a traveling draw head rotatably mounted in the upper end of the mold; a cylinder having a piston and piston rod; a flexible means passing from said piston rod to said traveling draw head; a four-way valve; a pressure feed pipe leading thereto; branch pipes

leading from said valve to opposite ends of the cylinder; a control rod for said valve whereby pressure medium can be directed to either end of the cylinder thereby to



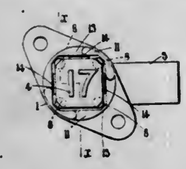
reciprocate the piston and raise the lower said traveling head; and a handle on said control rod and disposed over said handle of the shift lever.

1,458,519. COLLAPSIBLE RUNNING BOARD FOR MOTOR VEHICLES. JOHN C. CALHOUN, Houston, Tex. Filed Apr. 19, 1921. Serial No. 462,534. 1 Claim. (Cl. 224—29.)



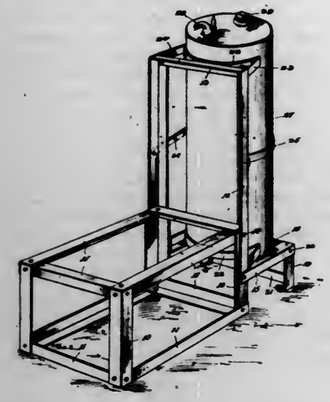
The combination with an automobile running board, of an extension board, hinges connecting the extension board to the outer edge of the running board, said hinges permitting the extension board to lie in coinciding position on the running board or to stand vertical relative thereto, shoulders carried by the hinges, said shoulders abutting when the extension board is extended into a common plane with the running board so as to support the extension board in the last mentioned position, said extension board having countersunk end sections, extensible ends hinged to the ends of the extension board, said ends being foldable into said countersunk sections and being adapted to stand vertical relative to the running board when said extension is in vertical position and to lie in said countersunk sections between the extension board and running board when the extension board is folded into coinciding position relative to the running board, said extensible ends being adapted to be extended out each way into a common plane with the extension board when said extension board is in extended position relative to the running board, the hinged ends of said end boards abutting against the adjacent ends of the extension board when said boards are in extended position and holding said end boards in said extended position, and holders adapted to engage with said ends to hold the ends and extension board in vertical position and also adapted to engage with the ends of the collapsed structure to hold the same in collapsed position.

1,458,520. LOCK. JAMES HARRY CASTELL, Westminster, London, England. Filed Aug. 18, 1922. Serial No. 582,768. 19 Claims. (Cl. 70—47.)



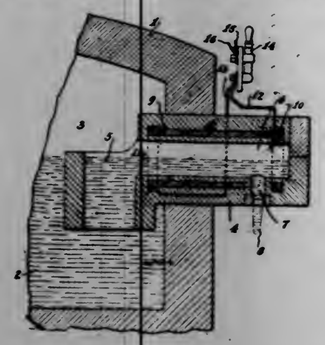
1. A lock comprising a case, a rotatable key pin mounted in said case, a key shaped to fit over and engage said pin, wards on said key pin and key, in the form of cameo and intaglio letters numerals or signs, and a spring controlled locking device operating between the key pin and the case and adapted to be released by the insertion of the key into the case.

1,458,521. TANK STAND. JOHN L. CASTILE, Boone, Iowa. Filed Aug. 8, 1921. Serial No. 490,624. 1 Claim. (Cl. 248—56.)



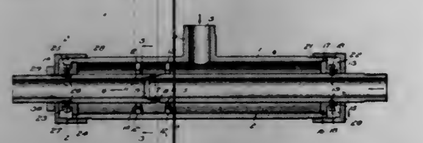
In a stand of the class described, a base constructed of angle iron comprising corner posts transverse and longitudinal bars rigidly secured together at the corners; a cradle similarly constructed of angle iron comprising two longitudinal bars and one transverse bar rigidly secured at one end of the cradle in such a manner that it substantially coincides with the corresponding end of the base when the cradle is in a lowered position, the other end of the cradle being open; the flanges of the cradle bars being so situated that they rest upon and embrace three sides of the top in said position; journals for the cradle at the other end of said base, the open end of the cradle extending beyond the end of the base, a shelf positioned perpendicularly to the side bars of the cradle at the open end thereof, said shelf including side runners of angle iron and a transverse runner rigidly connecting said side runners, the side flanges of said side runners being secured to the open ends of the cradle bars and the inward flanges having their ends bent to form ledges and an arcuate tank support having legs with transverse feet resting upon the ledges and rigidly connected therewith, a second arcuate support at the closed end of said cradle similarly secured to the bars of the cradle, holding down means for a tank on said cradle and hinged legs at the free end of said shelf for supporting the cradle in upright position.

1,458,522. FEED TROUGH FOR GLASS FURNACES. WALTER G. CLARK, New York, N. Y. Filed May 27, 1920. Serial No. 384,654. 7 Claims. (Cl. 49—55.)



7. In combination, a furnace; a feed trough therefor comprising a horizontal portion having a closed outer end wall and a downwardly opening port near its outer end and having at the inner end an upflowing glass feed trough consisting of a riser chamber open at both ends and extending somewhat above the axis of the housing through which the glass rises upwardly from below its level within said chamber; an electric-resistance heating means associated with said trough and completely embedded in the walls thereof and extending substantially from end to end of the horizontal portion whereby to melt the glass within said trough; a second heating means comprising electrodes in communication with the interior of the trough at opposite ends thereof, whereby the glass may be maintained in molten state by passing a heating current through the molten glass; and a pair of controllable electric current supply means whereby current may be supplied at will to said resistance heating means or said second means or both.

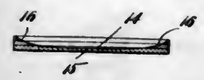
1,458,523. EJECTOR. BENONI L. COUTANT, Jacksonville, Fla. Filed Nov. 30, 1921. Serial No. 518,910. 8 Claims. (Cl. 162—1.)



1. An ejector including a casing formed of a cylindrical sleeve having internal and external screw-threaded ends, closure devices for the ends of said sleeve, each of said devices comprising a flanged collar secured within the internal threads of the sleeve and a cap secured upon the external threaded portions of said sleeve, packing material interposed between said collar and cap, and cooperating cylindrical ejecting nozzles arranged within said sleeve and supported by the closure devices.

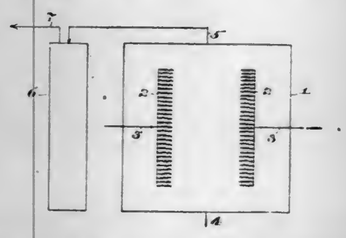
1,458,524. PROCESS OF MAKING SHOE-HEEL BASES. OTIS T. CRAFTS, Manchester, N. H. Filed Feb. 25, 1922. Serial No. 539,408. 1 Claim. (Cl. 12—147.)

The improved process of making heel bases, which consists in building an individual blank, of a plurality of layers, the combined height of said layers being oversize with regard to the thickness of the finished heel base, then skiving the blank to remove surplus height and simultaneously form a plane skived surface to which a rubber heel may be attached, and to also form a plane surface on which the blank may be supported in a gouging machine, and then gouging the blank to form a con-



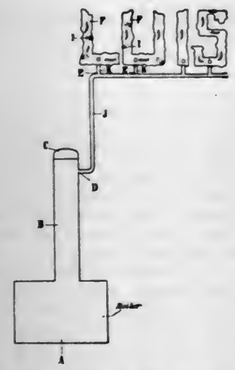
cave surface to fit the shoe heel, whereby successive heel bases of uniform height and of desired concavity on the heel seat attaching surface with a plane opposite surface are provided.

1,458,525. PROCESS FOR FIXATION OF ATMOSPHERIC NITROGEN. FARRINGTON DANIELS, East Falls Church, Va., and OLIVER R. WULF, Norwich, Conn. Filed May 12, 1919. Serial No. 296,542. 5 Claims. (Cl. 204—31.)



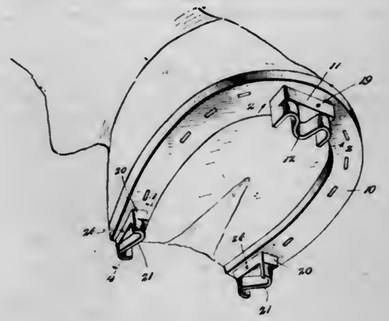
1. The process of making an oxygen compound of nitrogen, which consists in subjecting an intimate mixture of oxygen and nitrogen to the action of a discharge between electrodes of opposite polarity in an oscillatory electric circuit having a frequency between 10,000 and 100,000 cycles and a voltage between 10,000 and 100,000 volts, while maintaining a space between said electrodes substantially in excess of the "sparking distance" therebetween under such conditions and sufficient to produce disappearing streamers between said electrodes.

1,458,526. FLAMING ADVERTISEMENT. JOSÉ DE ELORZA, Madrid, Spain. Filed Feb. 13, 1922. Serial No. 536,326. 1 Claim. (Cl. 40—126.)



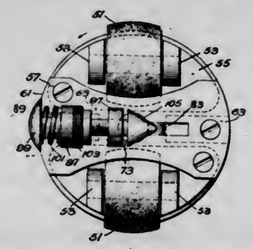
Improvements in advertising signs, comprising the combination of hollow letters of burnished glass, means for illuminating the interior with varying intensity, the various letters having the form of a log of wood, and being provided with orifices for the escape of steam, to simulate smoke issuing from the whole, forming a flaming advertisement.

1,458,527. HORSESHOE CALK. JACOB DINKELACKER, Hazleton, Pa. Filed July 21, 1921. Serial No. 486,337. 6 Claims. (Cl. 168—40.)



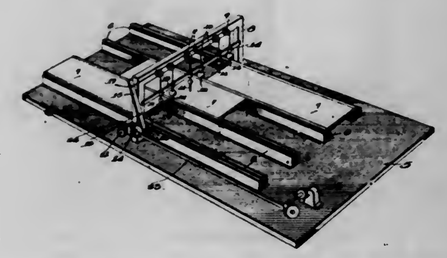
1. In a device of the character described, a shoe stud, a calk fitting the stud, a key extending within the calk coacting with the stud locking the calk thereto, and means upon the calk bending the key whereby to lock the key against displacement.

1,458,528. GRINDING MACHINE. VICTOR J. EMERY, Wollaston, Mass. Filed Jan. 14, 1922. Serial No. 529,375. 31 Claims. (Cl. 51—91.)



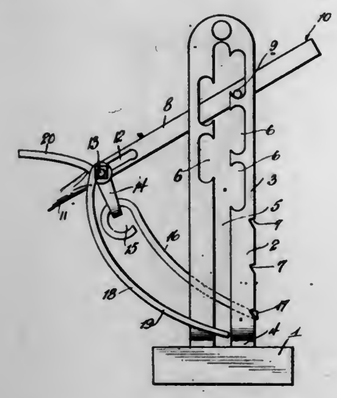
1. A grinding head comprising a centric group of abrading elements and incrementally movable means for expanding the group comprising a feeler governed by the portion of the work acted on by the abrading elements.

1,458,529. TESTING APPARATUS. CLAUDE RAYMOND HILL, Midland, Mich. Filed Apr. 13, 1920. Serial No. 373,672. 7 Claims. (Cl. 73—51.)



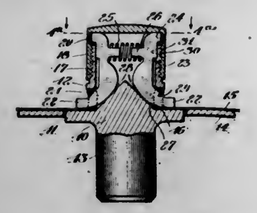
1. The combination of a plurality of sliding plates for carrying the material on test, propulsion means for said plates, a series of weighted needles disposed transversely of the plates, and automatic means for moving said needles into engagement with the material on the plates at regular intervals.

1,458,530. LIFTING JACK. DAVID F. HILTON, Dennison, Ohio. Filed Dec. 12, 1919. Serial No. 344,491. 1 Claim. (Cl. 254—130.)



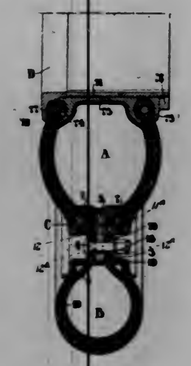
A lifting jack comprising an upright, a lifting lever adapted to fulcrum thereon, a pivot member on said lever, a link fastened to the lever by said pivot member, a lever-fastening latch pivoted to said member and engageable with the upright, a lifting lever for the latch pivoted on said member and movable relatively to the link, the upper end portion of the latch-lifting lever extending above the operating end of the first lever to facilitate manipulation, and the other end portion of the latch-lifting lever being adapted to directly engage said latch to unfasten it, and the latter end portion being normally disengaged from said latch.

1,458,531. RECORDING INSTRUMENT. EDWIN HODGKINSON, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed June 2, 1921. Serial No. 474,378. 8 Claims. (Cl. 243—1.)



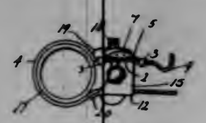
1. In a recording instrument, a device for holding a record sheet on the instrument comprising a support having a hollow post portion for insertion through an opening in the sheet and a laterally extending clamping flange at the base of said post portion, said post portion being formed with lateral openings in its walls adjacent said flange, holding means in said post portion having a sliding movement longitudinally thereof and through said openings therein for cooperation with said flange to clamp and release a sheet, a member adjustable on said post portion, and co-operating means on said member and support for effecting said movements of said holding means upon adjustment of said member.

1,458,532. WHEEL AND TIRE FOR ROAD VEHICLES. FREDERICK WILLIAM LANCHESTER, London, England. Filed June 10, 1919. Serial No. 303,163. 6 Claims. (Cl. 152—33.)



1. In a radially and laterally resilient wheel, a pneumatic sub-tire, a peripheral tire proper, a floating rim between the said tires comprising two side members provided with clinches for the outer edges of the sub-tire and adapted to position and hold the tire proper, a packing ring in the middle plane of the wheel between the two side members and provided with counter clinches for the outer edges of the sub-tire, and bolts passing transversely through the three said parts for fastening them in fixed relationship.

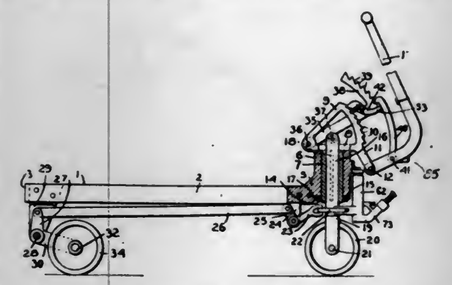
1,458,533. GROUND CLAMP. GEORGE LIPSCHUTZ, Philadelphia, Pa. Filed Apr. 26, 1921. Serial No. 464,642. 3 Claims. (Cl. 173—273.)



2. In a device of the character described, a fulcrum plate, a pair of attaching lugs formed at each side of said plate, a wing between each pair of attaching lugs, arcuate recesses formed in said wings, projections formed by the metal pressed from the wings to produce said recesses, a flexible band having a loop at one end and provided with a series of holes at its other end, said band having the fulcrumed plate secured thereto adjacent the looped end thereof, a tightening member consisting of a wall having an opening therethrough, a pair of parallel arms projecting at right angles therefrom, the outer ends of said arms being arcuate in shape and the inner edges thereof approximately aligning with the center of the opening through the wall, said tightening member straddling the flexible band with the arms in registration with the arcuate recesses in the fulcrum plate, a screw passing through the tightening member, both ends of the flexible band and the fulcrum plate and a nut threaded on said screw and resting between the projections on the fulcrum plate.

1,458,534. ELEVATING TRUCK. RALPH M. LOVEJOY, Meredith, N. H., assignor to Lewis-Shepard Company, South Boston, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1919. Serial No. 280,030. 18 Claims. (Cl. 254—2.)

1. In an elevating truck comprising wheels and load supporting means, means for elevating said load supporting means relatively to said wheels including an elevating lever, a handle, interengaging members connecting said handle and lever operable when the handle is moved in one direction to actuate said elevating lever, locking means for holding the load supporting means in



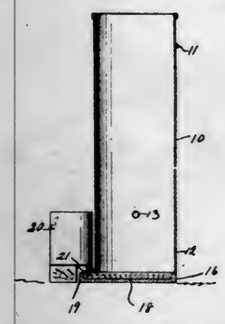
elevated position including a dog pivotally mounted upon said elevating lever and a co-operating member, and means operable by movement of the handle in the opposite direction to release said dog from its engagement with said co-operating locking member.

1,458,535. BOTTLE CAP. ALEXANDER MELDRUM, Syracuse, N. Y., assignor to The Smith-Lee Company, Oneida, N. Y., a Partnership composed of Wilbert L. Smith, Huribut W. Smith, and the estate of M. C. Smith. Filed July 19, 1921. Serial No. 485,853. 3 Claims. (Cl. 215—51.)



1. A bottle cap comprising a disk of paper board having a wire "pull," said wire being in the form of a loop having its ends passing through the disk within and near the margin thereof from the upper side to the lower side and again passing through from the lower side to the upper side, the extreme ends being folded against the upper face of the cap.

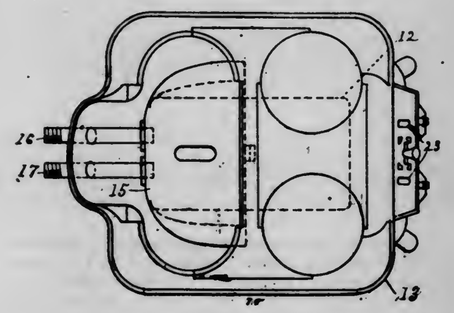
1,458,536. HEATER FOR BURNING PETROLEUM COKE. BANKS L. MILLER, San Juan, Tex. Filed Oct. 11, 1922. Serial No. 593,744. 5 Claims. (Cl. 126—59.5.)



1. A heater comprising a hollow body, and a grate disposed in the lower end of the body and having a

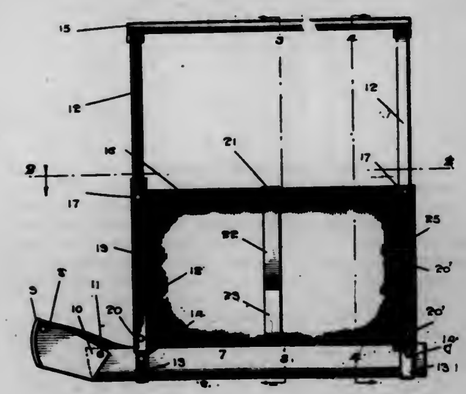
downwardly extending rib forming the base upon which the body and grate rest, said rib being hollowed out to form a trough for containing the fuel oil.

1,458,537. LAUNDRY STOVE. JOHN H. MILLER and GEORGE POHL, Plymouth, Ind., assignors to Keystone Foundry Company, Plymouth, Ind., a Corporation of Indiana. Filed May 25, 1922. Serial No. 563,479. 15 Claims. (Cl. 126—34.)



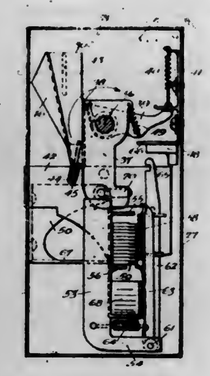
1. In combination, in a stove, a fire pot, a top, sides sloping outward and upward from the pot to the top, there being a smoke outlet in the rear of the stove top, and a deflector-plate between the pot and the smoke outlet, the front of said deflector-plate forming an arch having its ends resting on the sloping sides and its center supporting the stove top.

1,458,538. BOLL-WEEVIL TRAP. LESTER LEE MOORE, Winder, Ga. Filed June 15, 1922. Serial No. 568,615. 3 Claims. (Cl. 43—133.)



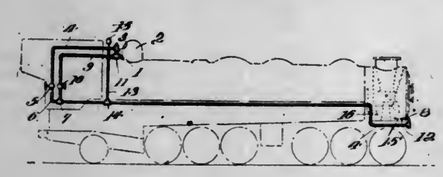
3. A portable trap adapted to be moved along plants comprising a longitudinal pan having inclined side walls, means for agitating the plants over said pan, and a guard wire within said pan having its front and rear ends secured to the pan near the front and rear ends of the pan, the portion of the wire between its ends being of zig-zag form with its bends seating on said walls of the pan to support the intermediate portion of the wire and to prevent the plants from dragging in the pan.

1,458,539. LOCK. RICHARD S. MURRELL, Columbus, Ohio, assignor of one-third to Clarence W. Shigley, Columbus, Ohio. Filed Oct. 8, 1920. Serial No. 415,543. 7 Claims. (Cl. 194—4.)



2. In a lock, a bolt, manually actuated means for shifting the bolt to locked and released positions, a single bolt locking member movable into and out of effective position for securing the bolt in the locked position of the latter, a series of selectively operable tumblers lockingly engageable with the bolt securing member when the latter is in effective position, and a series of successively operable tumbler controlling members individually dischargeable from and insertable within the lock, having differently positioned tumbler engaging and shifting means for the purpose described.

1,458,540. LOCOMOTIVE COMBUSTION REGULATOR. EDMUND T. D. MYERS, Jr., Richmond, Va. Filed Dec. 1, 1921. Serial No. 519,117. 7 Claims. (Cl. 110—150.)



1. In a locomotive combustion regulator, the combination with a source of boiler pressure, the usual pop-valve, means operating at a pressure less than the discharge pressure of the main pop-valve for discharging steam from said source of boiler pressure into the smoke-box in opposition to the incoming draft from the firebox whereby to abate the draft by the velocity of the steam discharge as well as by the reduction of the vacuum in the smoke-box due to the expansion of the steam.

1,458,541. DISPLAY RECEPTACLE. PETER J. NAGLE, Rochester, N. Y., assignor to Flower City Specialty Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 12, 1920. Serial No. 416,434. 2 Claims. (Cl. 206—44.)

1. A display cover comprising two layers, one superimposed upon the other and said layers having registering openings, strips arranged along opposite edges of one of the layers and adhesively secured to one side of

the other layer, a transparent sheet loosely arranged between the layers and between the strips, and means for



securing the two layers together so that the transparent sheet may be readily inserted between or removed from a position between the layers.

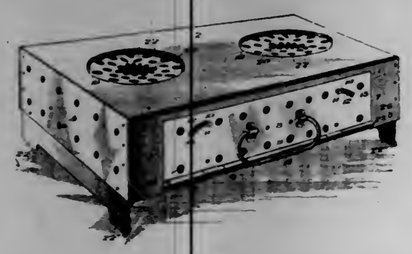
1,458,542. PROCESS FOR THE MANUFACTURE OF DISPERSOIDS. HERMANN PLAUSON, Hamburg, Germany. Filed Jan. 13, 1921. Serial No. 437,117. 7 Claims. (Cl. 252.)

1. A process for the production of colloidal dispersions which consists in subjecting the substance to be dispersed and a liquid dispersion medium to intensive mechanical disintegration under the following conditions, viz (a) employing a peripheral speed of not less than 2,000 metres per minute, (b) using a liquid which is not a good electrolyte, and (c) using a mixture in which the total quantity of liquid comprises at least 70% of the mixture.

1,458,543. CONDENSATION PRODUCT AND METHOD OF MAKING SAME. FRITZ POLLAK, Vienna, Austria. Filed Jan. 10, 1922. Serial No. 528,339. 10 Claims. (Cl. 260—3.)

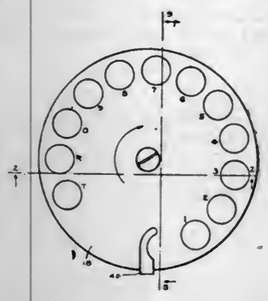
1. The process herein described for manufacturing condensation products which consists in reacting on a urea with formaldehyde in presence of a base, the formaldehyde being present in a smaller proportion than would correspond to 3 molecules of formaldehyde to 1 molecule of the urea, and heating the mixture until there is effected the formation of an easily gelatinizing liquid initial condensation product capable of transformation into a hard insoluble final product.

1,458,544. PORTABLE STOVE. ISAAC C. POPPER, New York, N. Y., assignor to The Theroz Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,610. 2 Claims. (Cl. 126—38.)



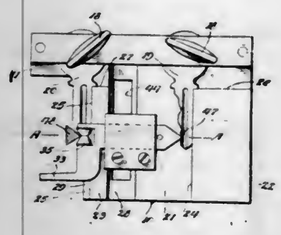
1. A stove comprising a top, a bottom, front, perforated back and ends, the front having an opening and a perforated door hinged at one edge thereof, means for fastening the door when closed, the top having a depressed opening with surrounding perforations through which the flame from the burner passes, and the bottom, having a hole immediately below the opening to receive, center, and hold the burner.

1,458,545. IMPULSE TRANSMITTER. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed June 13, 1919. Serial No. 303,899. 16 Claims. (Cl. 179—90.)



1. In an impulse transmitter, a manually adjustable device arranged to rotate forward and back to effect the transmission of impulses, a commutator and a circuit closing device cooperating therewith, and means actuated by said manually adjustable device for causing said commutator to make one complete revolution and only one for any setting of said device.

1,458,546. GAUGE FOR DUPLICATING KEYS. HENRY C. RAHMOELLER, St. Charles, Mo. Filed Apr. 12, 1922. Serial No. 551,979. 3 Claims. (Cl. 29—76.)

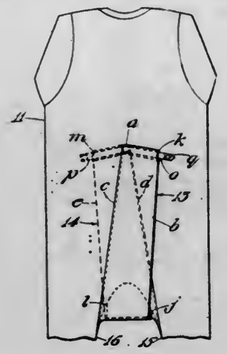


1. A key duplicating device, comprising a housing, longitudinal abutments in said housing adapted to receive a key pattern and a blank in parallel relation to each other, clamps for rigidly holding the pattern and the blank in such relation, a guide being formed in said housing running parallel to the longitudinal abutments, a gauge member having a pattern engaging edge, a bearing for said gauge member permitting reciprocation thereof relatively to said lateral abutments, and means for adjustably securing said bearing in said guide, a pair of rollers on said gauge member adjacent the abutments for the blank, adapted to limit the cutting action of a tool, said rollers having grooves situated in a plane running through said edge and a straight line connecting the bottoms of said grooves running parallel to said edge.

1,458,547. UNDERGARMENT. WILLIAM B. ROOD, Ware, Mass., assignor to Otis Company, Ware, Mass., a Corporation of Massachusetts. Filed May 11, 1921. Serial No. 468,514. 7 Claims. (Cl. 126—113.)

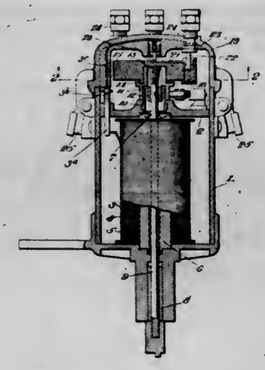
1. An improved union undergarment comprising a body portion and inner and outer seat pieces, one longitudinal

edge of each of said seat pieces being secured to the body of the garment and the other longitudinal edges of said seat pieces being free to form inner and outer



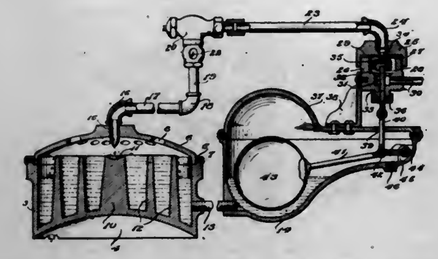
edges of a seat opening, both of said seat pieces being free along their upper edges and supported in such manner that the upper ends of said seat pieces are both laterally slidable.

1,458,548. IGNITER. RUDOLF ROSNER, Chicago, Ill., assignor, by mesne assignments, to Simplex Ignition Corporation, Chicago, Ill., a Corporation of Delaware. Continuation filed after grant of patent of application Serial No. 230,429, filed Apr. 24, 1918. Patent No. 1,332,758, dated Mar. 2, 1920. This application filed May 1, 1920. Serial No. 378,338. 3 Claims. (Cl. 123—148.)



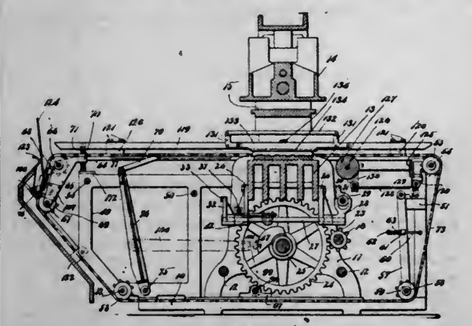
1. In an igniter, a distributer, an operating shaft therefor, a source of high potential current, a casing housing said source, distributer and shaft, a cover for said casing, a series of conducting plugs traversing said cover and arranged in a circle concentric with said shaft, a central contact on the interior of said cover in line with said shaft, said distributor having an arm driven by said shaft engaging said central contact and traveling over the interior ends of said plugs, a contact on the interior of said cover outside said circle, a terminal of said source mounted in said casing in position to engage said last-named contact, said terminal and contact being spring-pressed toward one another when said cover is in place, and a connection from said last-named contact to said central contact.

1,458,549. AIR MOISTENER. CLARENCE E. SALLADA, Huron, S. Dak. Filed Aug. 10, 1922. Serial No. 580,951. 4 Claims. (Cl. 126—113.)



1. An air-moistening attachment for hot-air furnaces comprising a vaporizing pan constructed to rest upon the top of the furnace, a cover for the pan having outlet openings therethrough, means exterior to the furnace and its casing for supplying water through the cover to the pan, means within the pan to retard the flow of water therethrough, and means leading from the pan to the exterior of the furnace for carrying off excess water.

1,458,550. LEATHER-CUTTING MACHINE. CHARLES ADRIAN SAWYER, Jr., Newton, Mass. Filed Apr. 9, 1921. Serial No. 460,116. 5 Claims. (Cl. 164—21.)

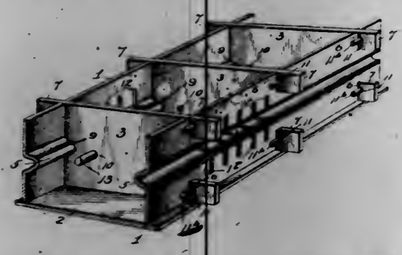


1. An improved leather working machine, comprising a work table, a cutter head, means for reciprocating said cutter head toward and from the work table, an endless belt feeding means, a plurality of cross bars spaced along the length of said endless belt, material gripping devices attached to said cross bars, and means for moving said cross bars and gripping devices successively into position with respect to said work table and cutter head.

1,458,551. METAL MOLD FOR CONCRETE BLOCKS. WOODFORD O. SEAT, Nashville, Tenn., assignor of one-half to John Nichols, Nashville, Tenn. Filed Mar. 20, 1920. Serial No. 367,389. 3 Claims. (Cl. 25—121.)

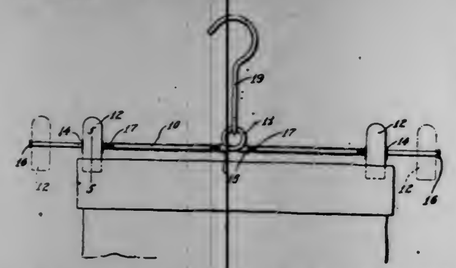
3. The combination with a pallet and a mold formed of side and division plates, with the latter substantially perpendicular to the side plates and dividing the mold into a plurality of molding chambers, of face molding strips separate from the pallet and from the side and division plates of the mold and having edge portions shaped to receive and sustain the side plates of the mold in elevated spaced relation to the pallet, and other face-molding strips separate from the pallet and adapted to be supported thereby and underlie and support the division plates of the mold in elevated spaced relation to the pallet, and means for connecting the ends of the division plates out-

side the side plates and above the face-molding strips, whereby blocks formed in the molds supported by the



face-molding strips are of greater thickness from the front to the rear than blocks formed in a mold consisting solely of side and division plates.

1,458,552. GARMENT HANGER. PARKE E. SHEE, Lancaster, Pa., assignor of one-half to Edward I. Noble, Lancaster, Pa. Filed Mar. 31, 1922. Serial No. 548,407. 2 Claims. (Cl. 223—19.



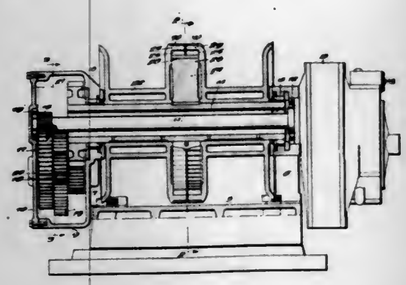
1. A garment hanger comprising an integral bar member centrally bent and having its portions on opposite sides of the bend crossing and extending in opposite directions to form a closed loop, a supporting hook loosely engaging said loop, clasps each formed of a pair of spring jaws, rivets holding together said jaws and serving as bearings therefor, said bar passing through the rivets, springs on said bar tending to move the clasps outwardly toward the ends of the bar, the bar having upset ends to limit the movement of the clasps and abutment means on said bar adjacent said loop for the inner ends of said spring.

1,458,553. BELT. FRED C. SHIPPS, Coshocton, Ohio. Filed May 5, 1921. Serial No. 467,151. 3 Claims. (Cl. 74—66.)



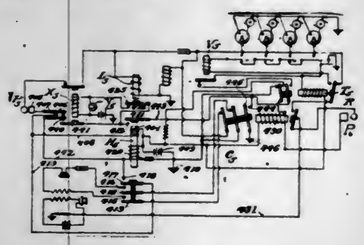
1. A belt consisting of a strip of twisted material perforated at one end and doubled upon itself midway its ends, the perforated end of the strip being inserted through the bight produced by doubling the strip and the free end of the strip being passed through the perforated end thereof and doubled upon itself and having its free portion intertwisted with the adjacent portion of the belt, the ends of the strip lying at opposite sides of the bight thereof.

1,458,554. REVERSIBLE DRUMS. ARTHUR H. SKAER, THEODORE E. BARKER, and OMAR E. CLARK, Denver, Colo., assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Sept. 12, 1922. Serial No. 587,803. 3 Claims. (Cl. 254—185.)



1. The combination with a pair of oppositely rotatable driven members, of a driving member common thereto and rotatable in opposite directions, and a clutch member movable with the driving member and pivoted thereon on an axis that is parallel to the axis of rotation of the driving member, said clutch member being movable to a position to connect one or the other of the driven members to the driving member accordingly as the latter is moved in one direction or the other.

1,458,555. TELEPHONE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Original application filed Oct. 14, 1914, Serial No. 866,583. Patent No. 1,407,892, dated Feb. 28, 1922. Divided and this application filed Dec. 11, 1917. Serial No. 206,576. 4 Claims. (Cl. 179—58.)

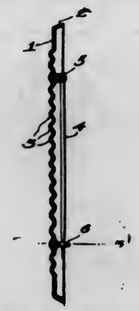


1. In a telephone system, the combination of a telephone line, a telephone line interconnecting mechanism including talking strands, two operator's sets, means to connect each set to said telephone line, apparatus to prevent the contemporaneous connection of said sets to said lines including a magnet double-wound with one relatively high and one relatively low resistance winding and a shunt of the high resistance winding controlled by said magnet, and a circuit for said magnet including a portion of one of said talking strands.

1,458,556. MATCH SCRATCHER. CHARLES S. SMITH, Providence, R. I. Filed Feb. 23, 1922. Serial No. 538,429. 2 Claims. (Cl. 44—48.)

1. In a match scratcher, a plate-like body having transverse corrugations pressed out therefrom so as to occur on both the front and rear faces of the body and

having a beveled rim extending rearwardly to form clothes engaging means at its free edge, and a pin secured to the back of the body for attaching the device



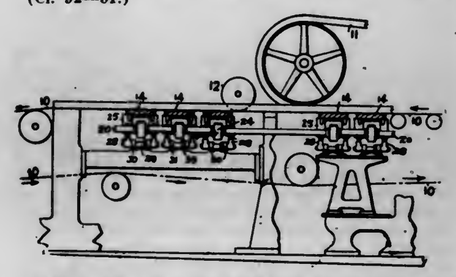
to the clothing of the user and for forcing the clothing against the corrugations occurring on the rear face of the body.

1,458,557. ROTARY VALVE. HERBERT V. SOUDERS, Wilmington, Calif. Filed Apr. 30, 1920. Serial No. 377,003. 13 Claims. (Cl. 123—59.)



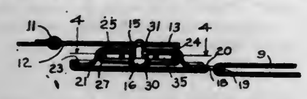
7. A multicylinder explosion engine provided with a single rotary valve structure including a valve casing having inlet and outlet ports in number corresponding to the sum of the inlet and outlet ports of the number of cylinders employed in the engine, and a rotary valve in the form of an elongated shaft having an unbroken exterior face and as many valve rings thereon as there are inlet and outlet ports in the valve casing, each ring having a passage therethrough providing a chamber or recess for passing the gas with the shaft constituting the bottom wall of the chamber or recess.

1,458,558. FOURDRINIER PAPER-MAKING MACHINE. LESTER M. START, Worcester, STEPHEN B. STAFFORD, Oxford, and JOHN WARREN VEDDER, Worcester, Mass. Filed Dec. 6, 1920. Serial No. 428,475. 7 Claims. (Cl. 92—51.)



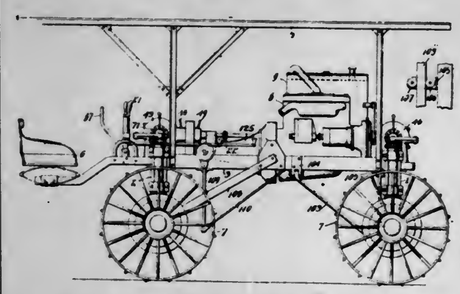
1. In a Fourdrinier machine, the combination with the pulp supporting and feeding wire cloth conveyor, of a series of suction boxes over the surface of which said wire cloth is adapted to move constantly in one direction, means for imparting to said suction boxes a reciprocating motion in a straight line transverse to the direction of motion of the wire cloth, a roller located beyond the end of each suction box, and means for supporting each suction box from one of the rollers.

1,458,559. SEPARABLE FASTENER. ERVIN V. SWEET, Attleboro, Mass., assignor to C. O. Sweet and Son Company, a Corporation of Massachusetts. Filed June 24, 1922. Serial No. 570,562. 3 Claims. (Cl. 24—218.)



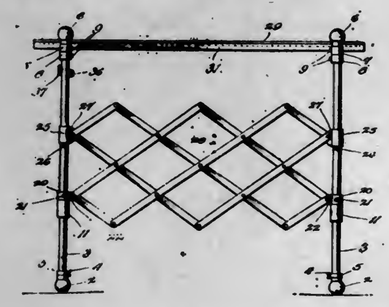
1. In a separable fastener, an attaching plate provided with a slot, a post on the plate, a head on the post, a back plate provided with a marginal slot and provided with a central depression and with a central hole, a front plate fast to the back plate, and a socket member embraced by the front plate and back plate in alignment with the hole and adapted to receive the head.

1,458,560. TRACTOR. ROBERT L. TOLSON, Memphis, Tenn., assignor, by mesne assignments, to John W. Farley, trustee, Memphis, Tenn. Filed Feb. 2, 1921. Serial No. 441,915. 14 Claims. (Cl. 180—80.)



1. In a tractor, a power operated steering device comprising an engine shaft extending lengthwise of the tractor, a drum having its axis parallel to said shaft, gears on the shaft and drum, a gear intermediate of and engaging said gears, a gear having its axis parallel to that of the drum, inner and outer flanges on the drum adapted to be engaged by said gear, means connecting said gear to the steering wheels of the tractor, and means under control of the operator whereby said gear may be moved into engagement with the said drum, substantially as set forth.

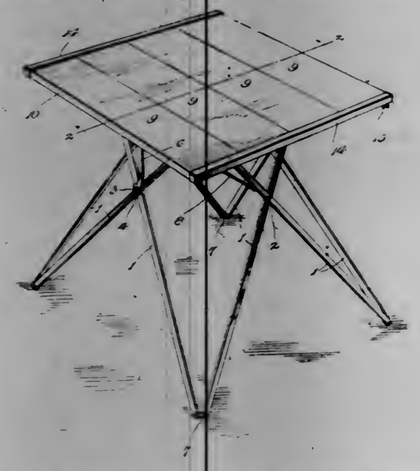
1,458,561. OPERATING TABLE. LEE R. TROMPETER, Cedar Rapids, Nebr. Filed June 21, 1922. Serial No. 569,906. 4 Claims. (Cl. 45—50.)



1. A table comprising a plurality of legs arranged in rectangular relation, foldable means connecting the legs

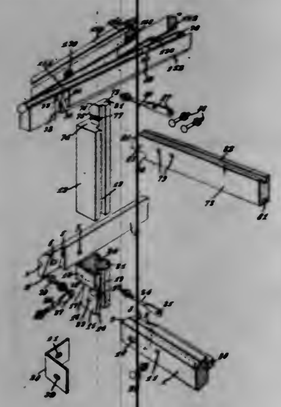
longitudinally, means connecting the legs transversely and securing them in vertical or in upwardly converging positions, and a foldable top fitting between the upper ends of the legs and constructed on the under side to engage the upper transverse connecting means in either position of the legs and thereby prevent collapse of the longitudinal connecting means.

1,458,562. INSTRUMENT TABLE. LEE R. TROMPETER, Cedar Rapids, Nebr. Filed July 19, 1922. Serial No. 576,085. 6 Claims. (Cl. 5—116.)



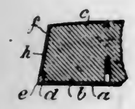
1. In a folding table, a table top consisting of a plurality of similar sections, a hinge connection between two of said sections, and links each pivoted at one end upon an end of one of the hingedly connected sections and at its opposite end upon the corresponding end of an adjacent section whereby all the sections may be swung about their connections to assume a position one above another.

1,458,563. KNOCKDOWN INTERLOCKING FRAME. JAMES A. WALKER, Los Angeles, Calif. Filed Apr. 20, 1922. Serial No. 555,723. 13 Claims. (Cl. 20—2.)



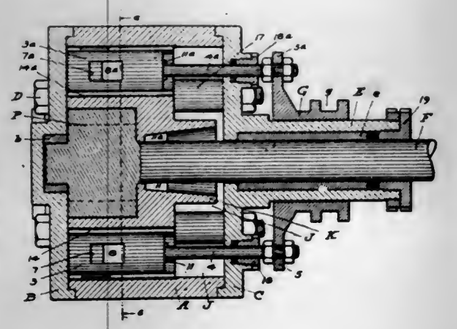
1. In a device of the class described, a post having a reduced end defining a shoulder; angularly disposed sills overlapped on said reduced end and engaged beneath the shoulder; and tightening devices on the sills, the tightening devices passing through the post, the tightening device on one sill passing through the other sill.

1,458,564. GOLF CLUB. GEORGE WEAGER and ROY WHITE, Malvern Link, England. Filed July 10, 1920. Serial No. 395,327. 2 Claims. (Cl. 46—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A golf club head having a sole plate, a face plate integral therewith, and an integral reinforcing rib extending along the inside of the edge formed by the two plates.

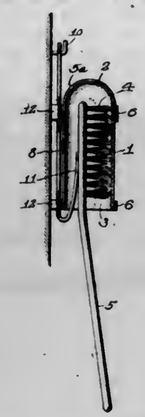
1,458,565. HYDRAULIC CLUTCH. WILLIAM S. WESTON, Dallas, Tex. Filed May 7, 1920. Serial No. 379,654. 21 Claims. (Cl. 192—61.)



17. In a clutch of the hydraulic pump type, a pump mechanism including a rotatable casing and a concentrically mounted rotatable shaft, said pump mechanism having a discharge passage and separate passages for the supply of liquid and gas respectively to the suction side thereof, and controlling valve means interposed in each of said passages and arranged, in closed clutch position, to close the discharge and gas supply passages and permit flow through the liquid supply passage and, in open clutch position, to close the liquid supply passage and permit flow through the discharge and gas supply passages.

1,458,566. TOOTHBRUSH HOLDER. WALTER W. WELPLEY, Detroit, Mich., assignor of one-half to William T. McNamara, Detroit, Mich. Filed Dec. 19, 1919, Serial No. 346,077. Renewed Feb. 16, 1922. Serial No. 537,123. 1 Claim. (Cl. 248—63.)

A tooth brush holder comprising a stall having an upper closed end and a lower open end adapted to receive the end of a tooth brush, a hanger supporting said stall and disposed in parallelism therewith, said hanger having its lower end bent to provide a resilient clamping member extending into the open end of said stall, and adapted



to be placed under tension by the end of a tooth brush interposed between said clamping member and the front wall of said stall.

1,458,567. COLLAR BURSTER AND EXPANDER. JAMES A. WOODS, Wichita, Kans. Filed Sept. 2, 1922. Serial No. 585,976. 6 Claims. (Cl. 81—188.)

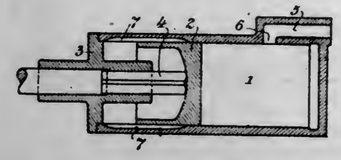


1. A collar expander for wells comprising a body having an opening extending out through opposite sides thereof, pivot pins extending through said opening, and pawls rotatably mounted on said pivot pins and having their rear ends in rolling contact with each other whereby to relieve the pivot pins of the strain incident to the engagement of the pawls with a collar to be expanded.

1,458,568. METHOD OF PRODUCING A RUSTLESS IRON ALLOY. WILSON BENNETT, Wellington, New Zealand. Filed Dec. 4, 1922. Serial No. 604,899. 6 Claims. (Cl. 75—45.)

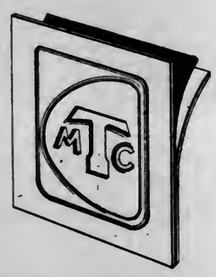
1. The method of producing a rustless iron alloy which consists in producing molten iron and partially refining the same, reducing the metal oxides of chromium ore, and refining the resultant metal in an electric furnace by the aid of suitable reducing and refining agents, transferring the molten iron and ferro-chromium to a separate combination arc and resistance electric furnace, and subjecting the combined charge to a final mixing, and refining and deoxidizing process at one and the same time.

1,458,569. PNEUMATIC TOOL DRIVEN BY PULSATING AIR. KARL ASSAR THEODOR BERG, Hoganas, Sweden. Filed Dec. 15, 1921. Serial No. 522,610. 2 Claims. (Cl. 125—34.)



1. In a pneumatic tool adapted to be driven by a single pulsating air column producing alternating periods of pressure and vacuum, a cylinder having a single inlet only for said air column with the inlet located adjacent the rear end of the cylinder, and a striking piston mounted for reciprocation within said cylinder by said alternating pressure and vacuum, the walls of the cylinder being provided at the forward end with a bypass without direct communication with the pulsating air column, said bypass extending in both directions beyond the striking piston when the latter is at its limit of stroke in non-working position and being continuously closed against the working portion of the cylinder when the piston is operating upon the tool.

1,458,570. LEAD MOLDING USED IN GALVANOPLASTY. EDOUARD BOUDREAUX, Paris, France. Filed Nov. 5, 1921. Serial No. 513,160. 3 Claims. (Cl. 154—46.5.)



1. In an improved process for molding galvanoplastic plate consisting in applying a reticulated sheet to the lead sheet which takes the impression of the type and finally applying a sufficient amount of pressure for molding to temporarily render the sheets integral.

1,458,571. REPAIR LINK. LESTER S. CLARK, Reisterstown, Md. Filed June 30, 1922. Serial No. 572,074. 2 Claims. (Cl. 59—88.)



1. A device of the class described comprising a pair of members each including loop shaped parts, oppositely dis-

posed and an intermediate twisted portion affording a resilient connection between the said parts to permit access to the parts.

1,458,572. TANK HEATER. HARRY L. COLLINS, Delmar, Iowa. Filed Feb. 7, 1922. Serial No. 534,654. 4 Claims. (Cl. 126—368.)



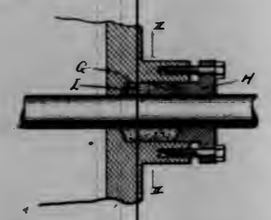
1. The combination with a water tank having a curved upright side wall, of a heater casing disposed in the tank and having a straight-side feed end, a casing section bolted to said straight-side feed end of the heater and having a curved-side end bolted to the curved wall of the tank, said wall having an opening therethrough registering with the feed opening in the heater, a front plate supported on the outer face of said tank wall, and a feed door mounted on said front plate for closing the opening in said wall and allowing access to the interior of the heater casing.

1,458,573. PROCESS OF MAKING TRAVELER RINGS. RANDOLPH CROMPTON, Worcester, Mass. Filed Nov. 19, 1921. Serial No. 516,459. 7 Claims. (Cl. 29—171.)



1. That method of making a traveler ring for textile purposes comprising the following steps; casting a metal suitable to produce a superhard surface and having self-lubricating properties, into the form of a ring having a traveler receiving flange; and then grinding or polishing the ring to dimensions suitable for ring spinning purposes.

1,458,574. PACKING MATERIAL. JOSEPH A. CUMMINGS, Jr., New York, N. Y., assignor to Cee Dee Mfg. Co., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1921. Serial No. 438,074. 3 Claims. (Cl. 106—8.)



1. A stuffing box packing comprising reduced lignum vitæ.

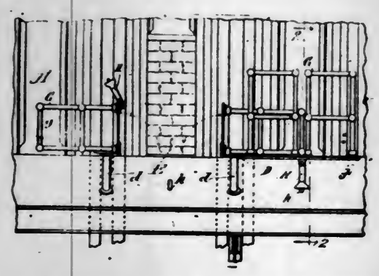
1,458,575. ILLUSION DEVICE. HORACE GOLDIN, New York, N. Y. Filed Sept. 9, 1921. Serial No. 499,431. 12 Claims. (Cl. 46—70.)

1. An illusion device comprising a long and deep box container specially designed for the herein described illusion of sawing the box and a person therein in half, the box being long and deep and having a top lid permitting a person to be placed in the box in an extended position, and the remote ends of the box being constructed to accommodate the extremities of the occupant so that they project in view of the audience, the body itself his legs up into the other half of the interior, the box being concealed, and the box being further so designed that the occupant can pull his feet into the box and draw



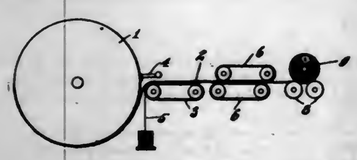
being further provided with a suitable entrance through which another pair of feet can be introduced and projected outward through the foot openings in the box end, the relations being such that the saw can then pass transversely without harm.

1,458,576. DISCHARGING PLATFORM FOR COKE OVENS. WALTER L. GRAUL and REGINALD H. TOWLER, Detroit, Mich. Filed Mar. 19, 1920. Serial No. 367,072. 2 Claims. (Cl. 202—9.)



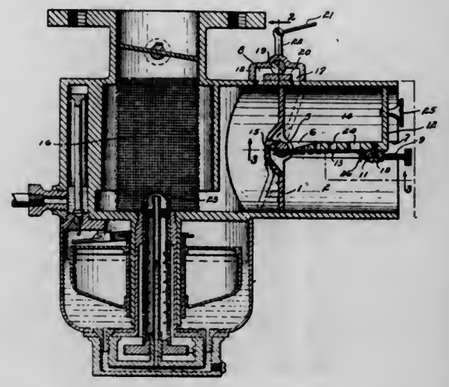
1. The combination with a block of coke ovens of a discharge platform extending along the discharge ends of the ovens consisting of a platform inclined downwardly from the oven wall and a horizontal platform adjoining the oven wall and extending along the oven block above the inclined platform (and supported thereby) and having the portions thereof opposite the oven openings removable so as to give free access from the oven openings to the inclined platform.

1,458,577. ASBESTOS YARN. JOHN ALLEN HEANY, New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Feb. 5, 1920. Serial No. 356,562. 6 Claims. (Cl. 117—35.)



1. The process of forming asbestos yarn, which consists in twisting together a plurality of untwisted asbestos strands having filamentary reinforcing cores.

1,458,578. CARBURETOR. JOSEPH V. HENLEY, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 451,943. 7 Claims. (Cl. 261—63.)

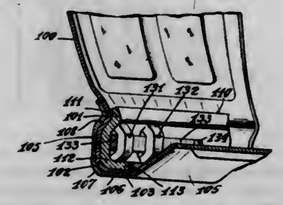


1. In a carburetor, an air intake pipe, a casing mounted on said intake pipe, a valve controlled passage in said casing, a butterfly valve located in said intake pipe, said valve controlled passage constituting a by-pass around said butterfly valve, and means for longitudinally moving the butterfly valve in relation to the by-pass.

6. A carburetor attachment comprising a casing mounted on the intake-pipe, a passage leading through the said casing and valve located in the said passage, and butterfly valve located in the intake pipe between the two ports of the said passage, the said butterfly valve being adapted to close the intake-pipe, a chamber within the intake-pipe, one wall of which is formed by the said butterfly valve and one port of the said passage being normally within the said chamber, and a partition forming another wall of the said chamber, the said partition containing ports normally closed, and a flat spring by which the said ports are normally closed, the said butterfly valve having a shaft with a cut-away part with which the said spring is in contact, the said cut-away part of the said shaft being adapted upon partial rotation of the said shaft, by the tilting of the butterfly valve, to lift the said spring off the said ports and to open the same.

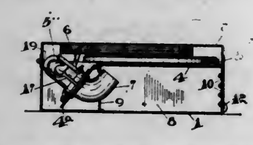
7. In a carburetor, an air intake pipe, means forming a chamber in said intake pipe, said means comprising a horizontal partition and two vertical walls, one of said vertical walls constituting a butterfly valve mounted in said horizontal partition a valve controlled by-pass around said butterfly valve and in communication with said chamber, and means controlling communication between the chamber and the air intake pipe.

1,458,579. KNOCKDOWN METAL RECEPTACLE. HENRY A. HOUSE, Bridgeport, Conn. Filed Sept. 27, 1919. Serial No. 326,935. 12 Claims. (Cl. 220—5.)



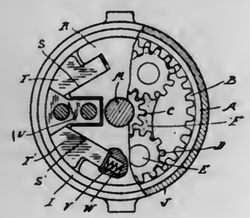
1. A barrel comprising a side wall, a head having a flange extending on the exterior of the end portion of the side wall and interlocked therewith, and locking means lying on the inner face of the end portion of the side wall and within the head and acting to expand the end portion of the side wall against the flange of the head to preserve the locked condition of these parts.

1,458,580. PORTABLE GRAMOPHONE. HERBERT C. KING, Toronto, Ontario, Canada. Filed May 1, 1922. Serial No. 557,786. 4 Claims. (Cl. 274—2.)



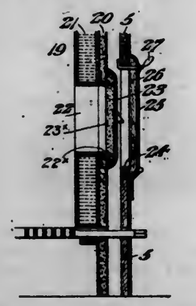
1. The combination with a gramophone including a hinged lid and pivotally mounted tone regulating shutters, of means for locking the lid in its closed position and adapted to engage the outer surfaces of the shutters to hold the latter closed.

1,458,581. STEERING-GEAR REPLACEMENT. CHARLES H. KIRBY, Detroit, Mich. Filed June 15, 1918. Serial No. 240,197. 3 Claims. (Cl. 74—39.)



1. The combination with a steering wheel and a steering stem, of a yieldable element transmitting the normal drive from said wheel to said stem and a stationary element frictionally engaged by said yieldable element when the stem is subject to a driving stress from a source other than the wheel, said yieldable element being mounted for movement at an angle to said stationary element selected to interpose a large element of frictional resistance to a driving stress transmitted from the stem without absolute locking.

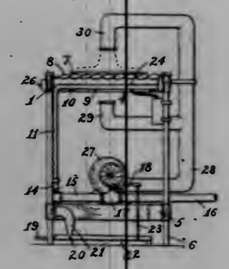
1,458,582. FURNACE AND BOILER CASING. CHARLES R. KLINE, Reading, Pa. Filed Aug. 24, 1921. Serial No. 495,043. 2 Claims. (Cl. 122—494.)



1. In a device of the character stated, a casing for boilers, furnaces and the like composed of metal sheets

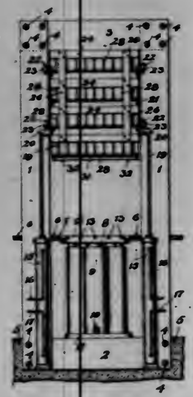
lined on their interior with non-conducting material, a boiler in said casing having a door, a door opening in said outer casing sheet aligning with said boiler door, and a casing door closing said opening and hinged to said outer sheet, the inner surface of said casing door being provided with a lining of non-conducting material and the inner surface of said boiler door being also provided with a lining of non-conducting material, and an outer projecting member surrounding the opening into said boiler, said member being adapted to be embedded in the non-conducting material of said boiler door when the door is closed.

1,458,583. MEANS FOR BAKING POWDER TO PLATES TO BE ETCHED. WILLIAM J. LOGAN, Cleveland, Ohio. Filed July 8, 1920. Serial No. 394,223. 7 Claims. (Cl. 91—55.)



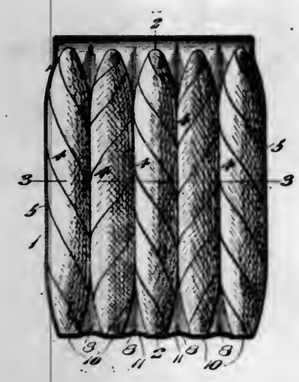
1. In a means for baking powder and the like to plates, the combination of means for heating the underside of a plate, and means for cooling the underside of the plate after the means for heating the plate has been shut off, substantially as described.

1,458,584. COTTON-BALE-COMPRESSING DEVICE. CHARLES J. LUCE, Niantic, Conn., assignor of one-half to Emlen T. Littell, Bayhead, N. J. Filed Oct. 18, 1922. Serial No. 595,252. 18 Claims. (Cl. 100—19.)



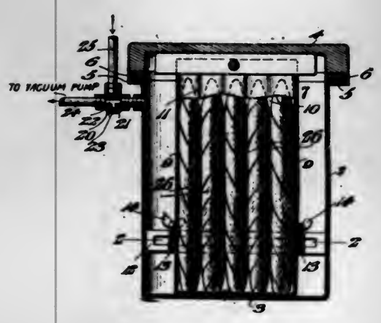
1. In a machine of the class described, the combination with a pair of pressing members, means for causing said members to be moved towards one another, another pair of pressing members, and means on said first-mentioned pair of pressing members for causing the second pair of members to be moved towards one another.

1,458,585. VACUUM CONTAINER FOR CIGARS, CIGARETTES, AND SMOKING TOBACCO. JOHN T. MCCROSSON, Honolulu, Territory of Hawaii, assignor of one-half to Eugene S. Cochran, New York, N. Y. Filed Oct. 2, 1922. Serial No. 591,699. 4 Claims. (Cl. 206—46.)



1. The herein described method of making a vacuum container for cigars, cigarettes and the like, which consists in placing the cigars in an open-ended trough-shaped container of flexible material, next, bringing the upper open ends of the container sides into juxtaposition, next, exhausting the air from the top of the container and hermetically sealing the juxtaposed upper edges thereof, and, lastly, forming the exterior walls of the container by exposure of same to atmospheric pressure into longitudinally extending corrugations which engage the contiguous peripheries of the cigars and retain them in longitudinal parallel alignment.

1,458,586. METHOD OF PACKING AND PRESERVING CIGARS, CIGARETTES, AND SMOKING TOBACCO. JOHN T. MCCROSSON, Honolulu, Territory of Hawaii, assignor of one-half to Eugene S. Cochran, New York, N. Y. Filed Oct. 2, 1922. Serial No. 591,700. 3 Claims. (Cl. 226—82.)



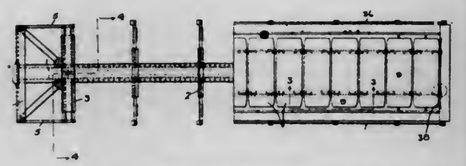
1. A process of packaging cigars, cigarettes and the like, which consists in enclosing the same in a container, exhausting the air from said container, filling said container with inert gas, and then hermetically sealing said container.

1,458,587. COP CONE. JOHN O. MCKEAN, Westfield, Mass. Filed Dec. 27, 1922. Serial No. 609,295. 7 Claims. (Cl. 242—122.)



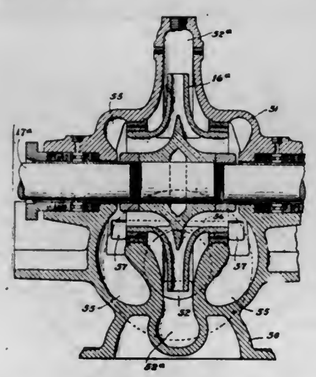
6. A device for ensuring the even driving of a cop cone comprising an exterior circumferential driving bead on the winding surface of the cone, and a driving roll arranged to engage said bead.

1,458,588. MULTIPLE-UNIT TANK CAR. MAX MAURAN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Feb. 7, 1922. Serial No. 534,642. 14 Claims. (Cl. 105—360.)



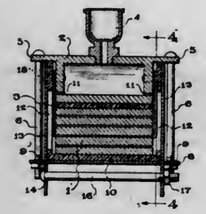
1. A car of the class described, comprising a frame having a plurality of seats extending transversely thereof, a cylindrical container in each seat, and means for clamping the containera to the seats.

1,458,589. BALANCING MEANS FOR PUMPS. NORMAN A. MESSINGER, Easton, Pa., assignor to Pennsylvania Pump and Compressor Co., Easton, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,239. Renewed Apr. 4, 1922. Serial No. 549,500. 3 Claims. (Cl. 103—112.)



1. A balancing means for centrifugal pumps comprising in combination, a pump casing, a double impeller having intake areas on opposite sides therein, and a conduit formed within the parts of said casing extending from one side of the casing to the other and having orifices adjacent the intake areas on either side of said casing.

1,458,590. VEHICLE-SPRING LUBRICATOR. JOSEPH J. O'BRIEN, Galveston, Tex. Filed Nov. 10, 1922. Serial No. 600,021. 2 Claims. (Cl. 184—1.)



1. The combination in a vehicle spring lubricator, of a lubricant receptacle adapted to be arranged in superimposed position on a leaf spring, said receptacle having drip apertures, a bottom plate for arrangement below a leaf spring, means connecting the receptacle and the said bottom plate, side clamping plates extending through slots in the bottom plate, means connecting the pendant portions of said side clamping plates, a stirrup of absorbent material arranged above the bottom plate and having upwardly reaching arms with openings therein, means connecting the side clamping plates and said arms of the absorbent stirrup to the receptacle, and shims associated with the lubricant receptacle and interposed between the leaves of the spring.

1,458,591. FILM-MAKING MACHINE. CARL P. OLSON, Irvington, N. J. Filed Dec. 7, 1921. Serial No. 520,487. 14 Claims. (Cl. 18—15.)



1. In a film-forming machine, in combination, an endless metallic band, rotatable supports therefor adapted to move said band in a substantially triangular path whose section lies in a horizontal plane, said path affording an upward run of said band; tilting means associated with a pair of said supports adapted to vary the inclination of said band upon its upward run, and coating means located between said pair of supports and comprising a container for a film-forming solution, said container being adapted to present said solution directly to the film-forming face of said band.

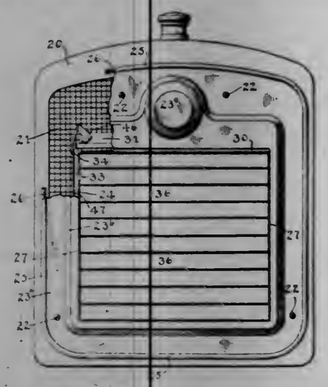
1,458,592. WRAPPING TISSUE. CARL P. OLSON, Irvington, N. J. Filed Apr. 17, 1922. Serial No. 554,181. 1 Claim. (Cl. 18—57.)

As a new article of manufacture, a wrapping sheet of tissue paper character composed of acetyl cellulose.

1,458,593. SHUTTER APPARATUS FOR RADIATORS. JAMES F. RALEIGH, Chicago, Ill., assignor to Pines Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,515. 8 Claims. (Cl. 257—132.)

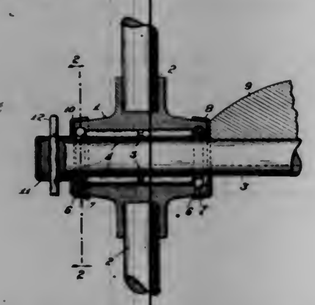
2. In combination with an automobile radiator comprising a core and frame therefor, a detachable front for said radiator including a sheet metal shell having a fenestrated dished central portion bounded by a marginal flange lying parallel with the forward face of said core and wholly in front of the radiator, said flange bridging contiguous margins of the radiator frame and core, a shutter-supporting means rigidly mounted within the dished central portion of said shell and concealed

thereby, shutters mounted in said shutter-supporting means and adapted to control the flow of air through the shell fenestration, and a plurality of bolts extend-



ing through said marginal flange and the radiator core adapted to hold said detachable front upon and in front of said radiator.

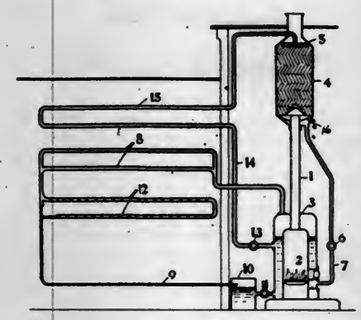
1,458,594. ROLLER BEARING. WILLIAM RIETZ, Sheboygan Falls, Wis., assignor to White Wagon Works, Sheboygan Falls, Wis., a Corporation of Wisconsin. Filed July 2, 1919. Serial No. 308,206. 1 Claim. (Cl. 64—39.)



A roller bearing comprising a cast metal hub formed with a uniform cylindrical bore therethrough and internal annular grooves adjacent the opposite ends of the hub, resilient split rings of rounded cross-section engaging said grooves, an axle, and rollers arranged around said axle within the bore of the hub and between said rings, said rings co-operating directly with the ends of said rollers to hold such rollers in place.

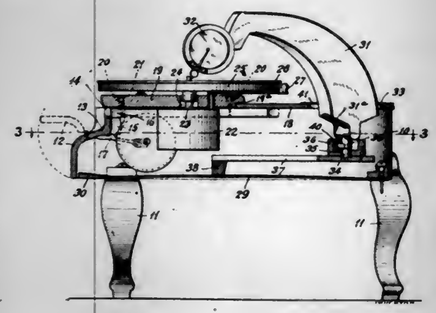
1,458,595. PROCESS FOR UTILIZING IMPURE GASES OR EXHAUST GASES CONTAINING CARBON DIOXIDE. FRIEDRICH RIEDEL, Essen, Germany, assignor to Riedel Fertilizing Process Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Aug. 24, 1920, Serial No. 405,753. Renewed Nov. 10, 1922. Serial No. 600,183. 5 Claims. (Cl. 71—90.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. Process of supplying carbon dioxide, free from noxious concomitants, to the atmosphere enveloping growing plants, which consists in extracting carbon dioxide from impure carbon dioxide containing gases by means of salt solutions having an affinity for carbon dioxide, then releasing carbon dioxide from said solution by means of heat, the heat being of such degree that water vapor is formed from the said solution in such volume and under such pressure as to drive forward the carbon dioxide and to distribute it in the vicinity of the plants, while, during the thus induced travel of



the carbon dioxide, depriving it of the traces of injurious accompanying gases by taking up the latter in water of the condensing water vapor and then removing said contaminated condensed water without permitting the gases absorbed by it to become effective in the atmosphere enveloping the plants.

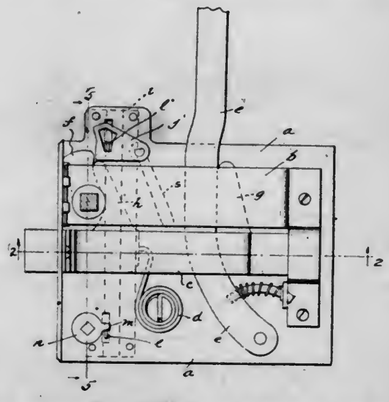
1,458,596. PHONOGRAPH. HERMAN ROTHKIRCH, New York, N. Y. Filed Apr. 7, 1921. Serial No. 459,300. 6 Claims. (Cl. 274—2.)



1. In a phonograph, the combination of a casing which itself constitutes the sound conduit for the passage of sound, said casing having an opening in its upper wall, a bottom of relatively thin wood constituting part of said casing and a tone arm extending from the exterior to the interior of said casing through said opening and having its inner end mounted upon said bottom and in communication with the interior of said casing.

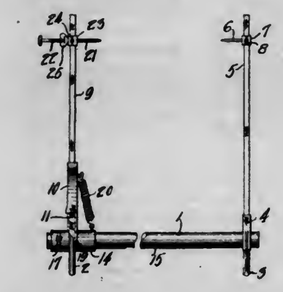
1,458,597. DOOR LOCK. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Apr. 28, 1920. Serial No. 377,173. 9 Claims. (Cl. 70—29.)

1. In a lock, the combination of a sliding bolt, an outside actuator, a locking dog engaging the same, a cylinder lock provided with connections with the locking dog to actuate the same and provided with lost motion within the connections themselves and including a re-



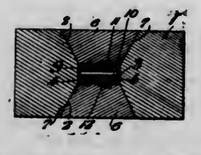
mote draft connection with the locking dog, and a button on the inside of the door for actuating the locking dog.

1,458,598. WHEEL GAUGE. RUDOLPH SPANGENBERG, Oakland, Calif., assignor to Jessie L. Call, Oakland, Calif. Filed Aug. 18, 1919. Serial No. 318,110. 6 Claims. (Cl. 33—180.)



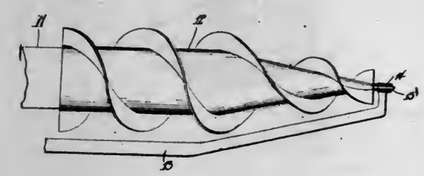
1. In a device of the character described, a bar, a gauge arm extending upwardly from and mounted on the bar, a member mounted on the bar for adjustment towards and away from the gauge arm, an upright gauge arm pivoted to said member, and a spring tending to return the last named gauge arm to upright position.

1,458,599. METHOD OF MAKING DIES. FRANK R. STAFFORD, Philadelphia, Pa. Original application filed Aug. 22, 1916, Serial No. 116,346. Divided and this application filed Feb. 12, 1919. Serial No. 276,490. 5 Claims. (Cl. 76—107.)



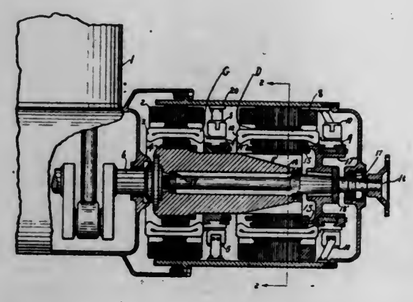
1. The method of die making, which consists in forming die blanks with tapering walls, and simultaneously moving a pair of blanks against a hub positioned between them to thereby form depressions in each blank of a pair.

1,458,600. SPIRAL PROPELLER. JOSEPH TABER, Millbrook, N. Y. Filed June 17, 1920. Serial No. 389,681. 1 Claim. (Cl. 115—20.)



The combination with a boat hull of a propeller shell formed of integral sections, spiral fins provided externally of one section, circular racks provided internally of the other section, a drive shaft extending from the hull into the shell, a gear on said shaft, and gears connecting the drive shaft gear with the circular rack of the propeller shell.

1,458,601. ELECTRODYNAMIC TRANSMISSION SYSTEM FOR VEHICLES. HARRY L. TANNER, Brooklyn, N. Y. Filed Feb. 5, 1917. Serial No. 146,556. 27 Claims. (Cl. 290—10.)

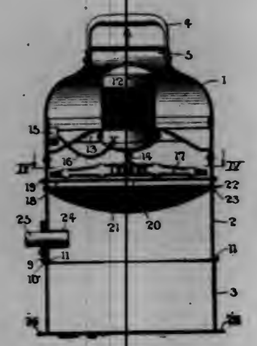


1. In a transmission system for automotive vehicles, the combination with a prime mover, a generator coupled thereto and a second dynamo-electric machine electrically associated therewith including a part coupled to said prime mover, a part coupled to the load and a stationary part, said second mentioned part being adapted to operate as the rotor or armature for either the first or last named parts.

1,458,602. VACUUM CLEANER. WILLIAM H. UPTON, New York, N. Y. Filed July 9, 1919. Serial No. 309,707. 3 Claims. (Cl. 183—37.)

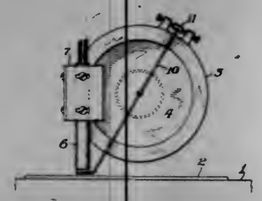
1. A vacuum cleaner comprising, a casing having three separable members in vertical alinement consisting of a cover member having its upper portion contracted into a neck to form an exhaust opening, a dust collecting bottom member, an intermediate member having a horizontally arranged inlet adjacent the lower edge thereof for receiving the dust to be deposited in the bottom member, said members being provided with coacting means for

removably securing one member to the adjacent member, a handle secured to said neck on the cover member for



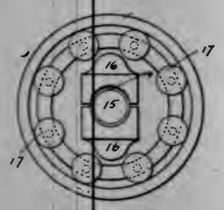
carrying the cleaner, and laterally extending ears on the bottom member to facilitate holding the botom member while separating the members.

1,458,603. METHOD FOR RECORDING SOUND. HARTWELL W. WEBB, Cresskill, N. J. Filed June 19, 1919. Serial No. 305,432. 4 Claims. (Cl. 274—46.)



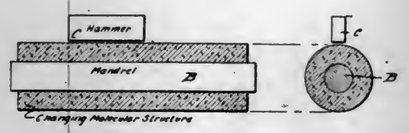
1. The method of making a sound record, which consists in photographically recording on a relatively movable sensitized surface the movements of a sound-actuated member by means of a beam of parallel light rays projected from a relatively small elongated source of light placed parallel to and with its length lying in the direction of movement of the relatively movable sensitive surface.

1,458,604. METHOD FOR MAKING ZINC-TUBING. WILLIAM L. WOODWARD, Lakewood, Ohio. Filed Jan. 24, 1921. Serial No. 439,364. 3 Claims. (Cl. 29—156.)



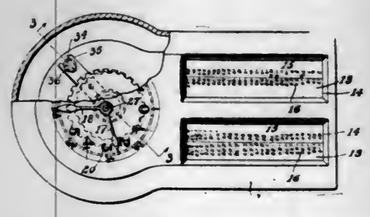
1. The herein described method of making seamless zinc tubes which consists in shaping a strip of zinc into tubular form, welding the joint thereof and subsequently restoring the molecular homogeneity of the tube as a whole.

1,458,605. METHOD OF MAKING SEAMLESS TUBES RICH IN ZINC. WILLIAM L. WOODWARD, Lakewood, Ohio. Filed Feb. 21, 1921. Serial No. 446,649. 5 Claims. (Cl. 29—156.)



1. The herein described method of making seamless tubes of material rich in zinc which consists in first producing a crystalline tubular body of a material rich in zinc and then mechanically treating said tubular body to break up the crystalline structure thereof and render said tubular body ductile and malleable.

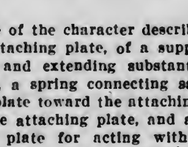
1,458,606. REDUCTION-GEAR DRIVE FOR MEASURING MACHINES. JOHN L. WHEELER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Original application filed July 11, 1919, Serial No. 310,753. Divided and this application filed Nov. 22, 1920. Serial No. 425,646. 2 Claims. (Cl. 235—136.)



1. In a fabric measuring machine having a measuring roller, the combination of a dial, a bracket mounted below the dial, a horizontal arbor fixed in said bracket, a vertical arbor fixed in said bracket projecting through the dial, a bevel gear rotatably mounted on the horizontal arbor and driven by the measuring roller, a bevel gear rotatably mounted on the vertical arbor and driven by the first named bevel gear, a tubular shaft rotatably mounted on the vertical arbor, rigid with the second named bevel gear, a fast-moving pointer carried by the tubular shaft and co-operating with the dial, a slow-moving pointer cooperating with the dial, a sleeve rotatably mounted on the tubular shaft rotatably supported in the dial and carrying the slow-moving pointer, a large internal gear wheel rigid with the sleeve, a small gear wheel superposed on the large gear wheel and meshing therewith, the smaller gear wheel having fewer teeth than the large gear wheel, an eccentric carried by the tubular shaft and rotating in the small gear wheel, means located at a point beyond the periphery of the small gear for guiding the small gear wheel to prevent the same from rotating on its own axis and having a portion encircling the eccentric to impart an oscillatory movement to said small gear wheel, and thereby impart a reduced rotation to the large gear wheel and the slow moving pointer.

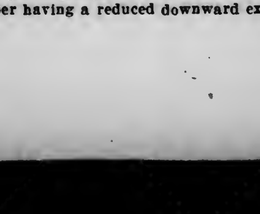
1,458,607. COLLAR BUTTON. CHARLES H. ALLEN, Attleboro, Mass. Filed May 5, 1922. Serial No. 558,728. 1 Claim. (Cl. 24—97.)

In a collar button, a post, retracted necks upon the ends of the post in parallelism with each other at right angles to the post, laterally projecting pivot members on the extremities of the necks, a head engaging the pivot



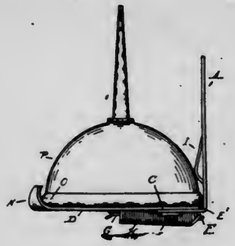
members supported by one neck, and a shoe engaging the pivot members supported by the other neck.

1,458,608. FLEXIBLE COUPLING. CHARLES W. BECK, Detroit, Mich. Filed Feb. 19, 1917. Serial No. 149,514. 4 Claims. (Cl. 64—96.)



1. In a flexible coupling, the combination with shafts arranged end to end, of a flexible member, and connections between said flexible member and said shafts, comprising sheet metal members secured to the shafts and having return-bent ends extending over the flexible member and fixedly secured thereto.

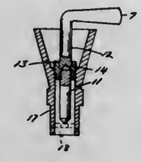
1,458,609. OIL-CAN HOLDER. CHARLES W. BECK, Detroit, Mich., assignor to Beck-Frost Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 17, 1919. Serial No. 277,391. 5 Claims. (Cl. 248—20.)



2. In a device of the character described, the combination with an attaching plate, of a supporting plate pivoted thereupon and extending substantially at a right angle therewith, a spring connecting said plates urging the supporting plate toward the attaching plate, a tongue struck-out of the attaching plate, and a projection upon the supporting plate for acting with said tongue to engage an article upon the supporting plate.

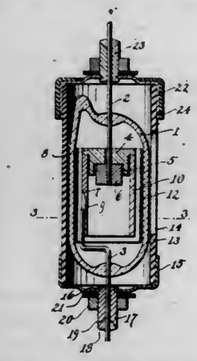
1,458,610. PRIMING CUP. CHARLES W. BECK, Detroit, Mich., assignor to The Beck-Frost Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 24, 1921. Serial No. 439,620. 4 Claims. (Cl. 123—187.5.)

1. In a priming cup, the combination with a cup forming member having a reduced downward extension formed with a discharge passage and having a valve seat in said passage and a threaded portion above said seat, of a valve member having an enlarged portion threaded to engage said threaded portion of the extension, having an operating portion extended above said cup forming member and having a portion extending below said threaded



portion to engage said valve seat, the last mentioned portion being spaced from the surrounding wall of the discharge passage, the threaded portion of the valve member having a passage therethrough for the down flow of the priming fluid from the cup proper.

1,458,611. LIGHTNING ARRESTER. LEON S. BRACH, East Orange, N. J. Filed May 17, 1921. Serial No. 470,374. 7 Claims. (Cl. 175—30.)



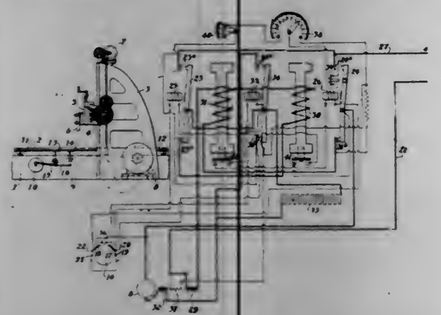
1. In a device of the class described, the combination of an evacuated container, spaced electrodes within said container, leading-in wires sealed through the wall of said container, and a casing for protecting the walls of the container located exteriorly thereof, and extending throughout the length of said container, and extending from one end to the opposite end of said evacuated container.

1,458,612. CLEANING TOOL. CLARENCE R. BERKSHIRE, San Francisco, Calif. Filed Feb. 15, 1922. Serial No. 536,610. 2 Claims. (Cl. 15—128.)



1. A cleaning tool comprising a handle provided with a passage therethrough, a valve controlling said passage, a nozzle member provided with a passage registering with that of said handle and with another passage communicating with said registering passage, and a brush member carried by said nozzle member provided with a chamber in communication with the passages of said nozzle, with ports for discharging fluid through said brush.

1,458,613. PLANER AND SYSTEM OF MOTOR CONTROL THEREFOR. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 31, 1920. Serial No. 355,318. 15 Claims. (Cl. 172—240.)



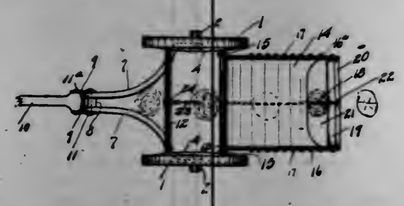
6. In a control system, the combination comprising a motor, two main electro-magnetic switches having circuit connections thereto for operating the motor in a forward and in a reverse direction and for completing a dynamic-braking circuit, and a supplemental magnet associated with each main switch and energized upon operation of the associated main switch, each of said supplemental magnets serving to exert a force tending to move the associated main switch to released position.

1,458,614. TAP. CHARLES W. BOGART, Port Chester, N. Y., assignor to Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y., a Corporation of New York. Filed Apr. 8, 1919. Serial No. 288,581. 3 Claims. (Cl. 10—141.)



1. A tap having a land provided with a thread chambered to form a conical surface and forming a series of cutting faces having cutting edges of progressively decreasing dimensions from the leading end of the tap, and an auxiliary thread formed in said first thread having a base line inclined to said conical surface and extending below the base line of said first mentioned thread at the leading end of the tap.

1,458,615. BEET HARVESTER. PETER J. DOYLE, Saginaw, Mich. Filed Mar. 3, 1921. Serial No. 449,399. 4 Claims. (Cl. 55—107.)

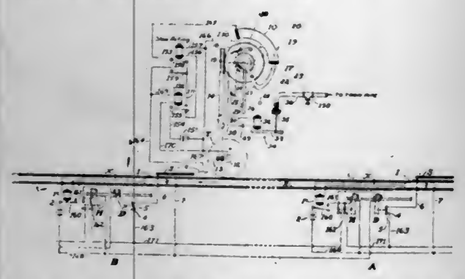


1. A beet harvester comprising, in combination, a pair of spaced apart disks, ground engaging wheels revolubly mounted on said disks, rods for rigidly connecting the said disks in spaced relation, and a topping plate hingedly secured to one of said rods.

2. A beet harvester comprising, in combination, a pair of spaced apart hollow disks, ground engaging wheels revolubly mounted thereon, and draft means detachably secured thereto, rods for holding the said disks in spaced relation, and a curved topping plate hingedly secured to one of said rods.

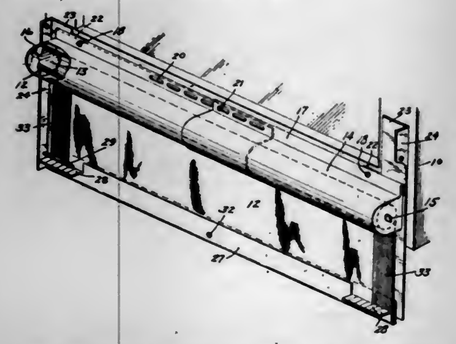
3. A beet harvester comprising, in combination, spaced apart hollow disks having laterally extending hubs integral therewith, ground engaging wheels mounted on the said hubs, and means on the interior of the hub for attaching the draft means thereto, rods connecting said disks, and a curved topping plate hingedly secured to one of said rods, and flexible means for holding said plate in raised position.

1,458,616. TRAFFIC-CONTROLLING SYSTEM. ALBERT V. T. DAY, New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 10, 1911. Serial No. 637,773. 19 Claims. (Cl. 246—49.)



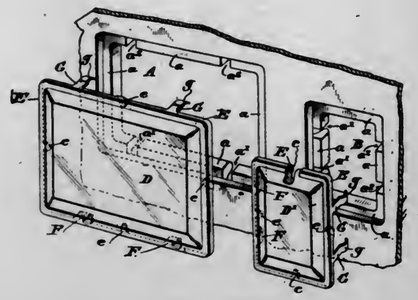
4. A railway traffic-controlling system comprising a single automatic traffic-controlling means carried on a railway vehicle which at all times and under all conditions effects the automatic control of the vehicle, said means having a retarding condition and a non-retarding condition, and said means being constructed and arranged to assume retarding condition within a limited interval, and means located in the trackway and responsive to clear traffic conditions of the track in advance of the vehicle to restore the traffic-controlling means away from retarding condition.

1,458,617. WINDOW SCREEN. JOHN H. DE SMIDT, Minneapolis, Minn. Filed June 22, 1922. Serial No. 570,243. 6 Claims. (Cl. 156—39.)



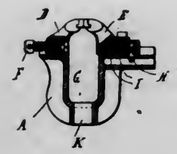
4. The structure defined in claim 3 in further combination with joint strips on the frame that are overlapped by the stiffened longitudinal edges of the screen.

1,458,618. MEANS FOR FASTENING GLASS PANELS TO THEIR SUPPORTS. BERNARD J. DOWD, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed June 27, 1922. Serial No. 571,220. 6 Claims. (Cl. 197—186.)



1. The combination with a glass panel of a metal frame which surrounds the same and fits over one margin of one face of the panel, said frame having tongues which may be bent to engage the other face, and also having hooks and resilient tongues for connecting the same to a support by direct pressure alone.

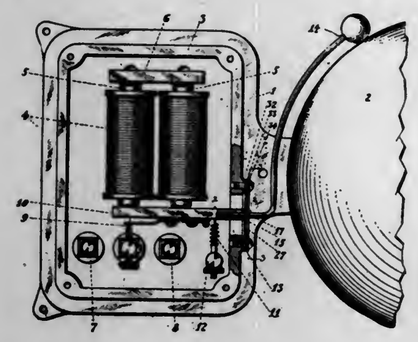
1,458,619. PARALLEL VISE. JULIUS EHRENFEUCHTER, Hanover-Wulfel, Germany. Filed Apr. 14, 1919. Serial No. 290,076. 1 Claim. (Cl. 81—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A parallel-vise comprising, in combination, an integral U-shaped frame of T-section having long parallel lateral members and a passage-hole in its lower end, head-planes of equal level on said frame, a front vise-jaw and a rear vise-jaw guided on said head-planes in dovetail fashion, a rotatable pressure-spindle in the front member of said frame and engaging the front vise-jaw only, a rack on the underside of the rear vise-jaw, and a laterally withdrawable locking-pawl in said frame located to engage said rack, substantially as set forth.

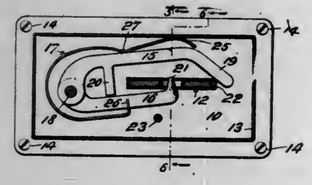
1,458,620. FLUID-TIGHT APPARATUS. GEORGE FUSSNER, Menominee, Mich., assignor to Signal Electric Mfg. Co., a Corporation of Michigan. Filed Oct. 12, 1920. Serial No. 416,448. 6 Claims. (Cl. 177—7.)

1. Electric apparatus comprising in combination, an electromagnet coil, an armature member therefor, a member connected to and controlled by said armature, an enclosure for one of said latter elements, the other of said elements projecting through an opening in said enclosure, a flexible diaphragm constituting a fluid-tight closure for said opening, means clamping said diaphragm against



said armature, said clamping means extending lengthwise of the diaphragm along a diameter thereof to determine an axis of flexure thereof.

1,458,621. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed June 22, 1922. Serial No. 570,100. 7 Claims. (Cl. 194—97.)

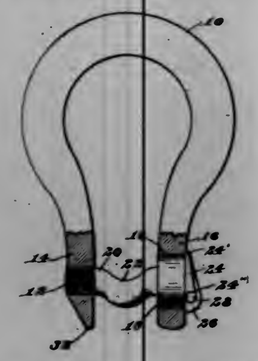


1. In a coin-controlled machine having a plate containing a slot for the entrance of coins into the machine, washer catcher mechanism located at the reverse side of said plate adjacent to said slot comprising an actuating arm extending along one side of said slot and pivoted at its shank end and at its free end slantingly crossing one end of said slot to be engaged by the edge of a coin or the like introduced into said slot, a washer catcher arm extending along the other side of said slot and pivoted at its shank end and at its free end having a prong or dog extending therefrom toward and adapted to be projected across said slot, one of said arms having a stop normally engaging the other arm to keep said arms normally spaced apart, and spring means tensioned against said actuating arm to yieldingly press the same to its operative position and against said washer catcher arm to turn it toward the coin slot when the actuating arm is turned outwardly from the slot by an introduced coin or the like.

1,458,622. SHACKLE. JOHN M. HIGGINS, Boothbay Harbor, Me. Filed July 27, 1921. Serial No. 487,957. 11 Claims. (Cl. 59—86.)

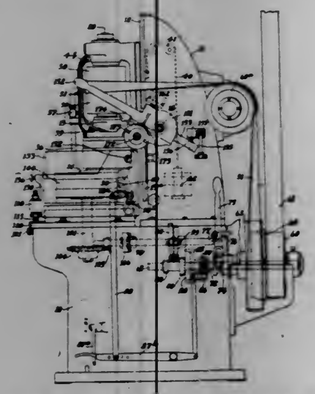
1. A shackle comprising a bail and a pin passing through and connecting the jaws thereof; said pin being rotatable for jaw engagement and disengagement and having in its middle a rope engaging surface which is set nearer to its axis than are other parts of the pin's middle, whereby the rope stress prevents its rotation; the point portion of the pin being cylindrical, fitting and filling its

jaw hole; and the part of its head portion which is set in the jaw being cylindrical fitting and filling its jaw



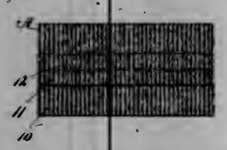
hole; and the said last mentioned hole being cylindrical and of large enough diameter for the said middle portion of the pin to pass through it.

1,458,623. SURFACE-GRINDING MACHINE. CARROLL KNOWLES, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed June 16, 1920. Serial No. 389,431. 46 Claims. (Cl. 51—118.)



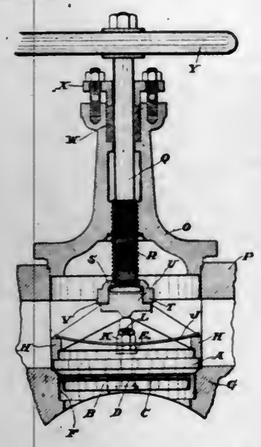
1. A wheel adjusting and feeding means for surface grinding machines comprising in combination, a wheel slide, a lever for operating said slide, and means to vary the position of said lever relative to said slide.

1,458,624. CRAPE-STRIP DECORATION. JAMES J. MACDAID, Jr., Allston, Boston, Mass., assignor to Denison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1922. Serial No. 546,699. 12 Claims. (Cl. 41—10.)



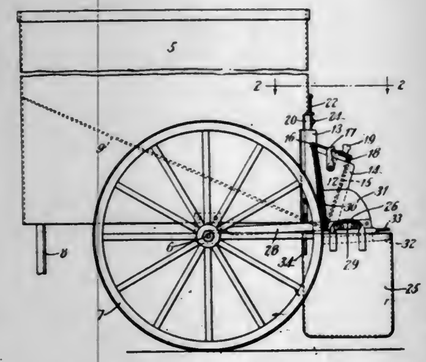
1. A strip decoration comprising a plurality of superposed ribbons of paper correspondingly tucked transversely and united together by longitudinal stitching.

1,458,625. PLATE-VALVE LIFTER. CHESTER W. METZGAR, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 20, 1922. Serial No. 562,373. 3 Claims. (Cl. 251—144.)



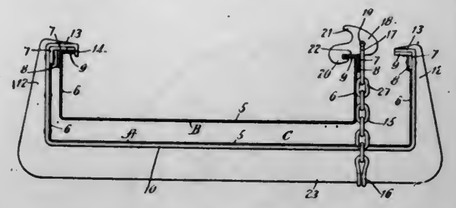
1. A plate valve lifter, comprising a plate valve including its seat, stop plate and stud adapted to lie in a valve opening in the cylinder wall of a compressor, a valve stem yoke over the valve seat, a valve holder for holding the plate valve and its associated parts to the yoke, a bonnet adapted to be secured to the compressor outer casing opposite the said valve opening, a valve stem carried by said bonnet and connected to the valve stem yoke, and means for actuating said stem to lift the plate valve and its associated parts.

1,458,626. BAG-FILLING DEVICE. ENOCH E. NEAL, Malden, Mass. Filed Feb. 11, 1921. Serial No. 444,153. 7 Claims. (Cl. 225—58.)



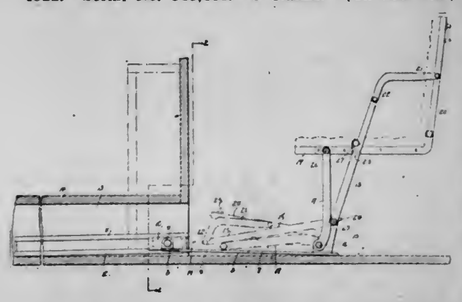
1. A bag filling device having, in combination, a receptacle, a delivery chute projecting therefrom, means to control the passage of material from said receptacle through said chute, a support pivotally mounted adjacent to said delivery chute and embodying therein a pair of oppositely disposed handle rests adapted to have a bag suspended therefrom by the handles thereof, means to yieldingly support the outer end of said support, means yielding downwardly in unison with said bag support to guide material from said delivery chute into said bag, means to hold the mouth of said bag open and means to limit the downward movement of said support.

1,458,627. FASTENING DEVICE FOR COAL CHUTES. ENOCH E. NEAL, Malden, Mass. Filed Oct. 27, 1921. Serial No. 510,907. 3 Claims. (Cl. 193—6.)



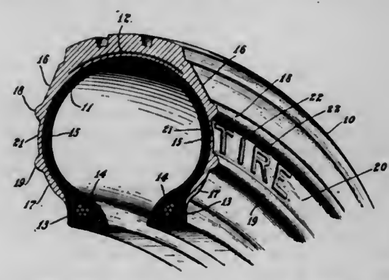
1. A fastening device for coal chutes having, in combination, a flexible member, a hook attached thereto at one end thereof and a member attached to said flexible member at the other end thereof provided with a plurality of oppositely disposed hook portions of different contours formed integral therewith.

1,458,628. AUXILIARY SEAT FOR AUTOMOBILES. RAYMOND F. PARDY, Bridgeport, Conn. Filed Mar. 31, 1922. Serial No. 548,461. 4 Claims. (Cl. 155—13.)



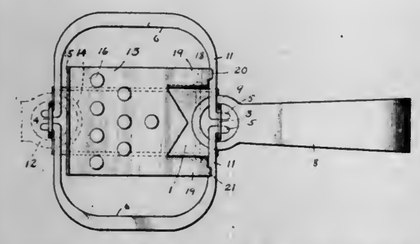
1. An auxiliary seat for automobiles, comprising a base frame formed at its rear with upwardly-projecting brackets, front legs pivoted to said brackets near said base, rear legs independently connected with said brackets at points above and in rear of said front legs, a seat with which said legs are pivotally connected, and means to limit the rearward movement of the legs.

1,458,629. VEHICLE TIRE. HARRY K. RAYMOND, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 20, 1922. Serial No. 601,968. 1 Claim. (Cl. 152—13.)



A pneumatic tire comprising a carcass and a covering of tread and side rubber vulcanized thereon and including a pair of concentric, annular, substantially-continuous, side chafing ribs embracing between them a zone over the side salient of the carcass having a width sufficient to include the usual molded designations, the floor of said zone being mainly a relatively-thin and highly-flexible portion of said rubber covering of substantially less projection than the ribs.

1,458,630. TRAP. NILS M. ROSENDAHL, Duluth, Minn., assignor of one-half to S. Geo. Stevens, Duluth, Minn. Filed Apr. 1, 1922. Serial No. 548,745. 4 Claims. (Cl. 43—92.)

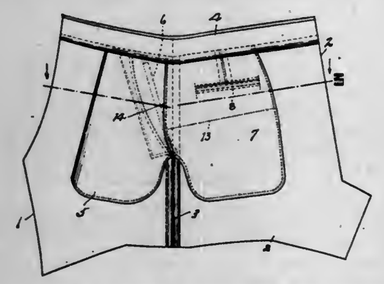


3. The combination with a trap of the character described having a pair of pivotally mounted pinching jaws, and a U-shaped expansive spring for controlling the action of said jaws, of a base for said trap comprising a single piece of rectangularly shaped metal having its opposite side edges turned downwardly forming side walls longitudinally thereof, upwardly turned lugs at the opposite ends of the base and centrally thereof forming pivotal supports for the jaws of the trap, and a trip pan, having claw engaging holes therein, for said trap having downwardly turned brackets at one end thereof straddling the base of the trap and pivotally mounted in the sides thereof, and ears projecting from the trip pan adjacent said brackets for engagement with the jaws of the trap when holding same open.

1,458,631. SOUND-ABSORBING PLASTER. PAUL E. SABINE, Geneva, Ill., assignor of one-half to Riverbank Laboratories, Geneva, Ill. Filed Apr. 29, 1921. Serial No. 465,372. 8 Claims. (Cl. 106—29.)

1. A sound absorbent plaster for walls, ceilings, and the like, comprising granular particles of irregular shape to prevent close packing and leave voids therebetween, and a bonding material of such nature as to not completely fill the voids between said particles, said plaster being capable of application directly to a wall, ceiling, or the like with ordinary plastering tools.

1,458,632. TROUSERS. MORRIS L. STERN, Detroit, Mich. Filed Oct. 1, 1921. Serial No. 504,631. 3 Claims. (Cl. 2—122.)



3. A pair of trousers including a front portion and a back portion united in a side seam, a front pocket for

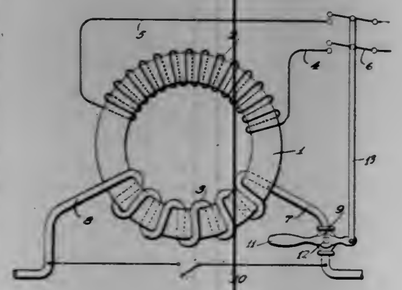
the front portion and a rear pocket for the rear portion, said front pocket having a portion of one side thereof extended rearwardly to the side seam with the edge of said portion inturned against the forwardly extended inturned edge of the side seam and the rear pocket having a portion of a side thereof extended forwardly to overlie said side seam, and a stiffening lining for said rear pocket extended forwardly to overlie the said side seam, the extended portions of the pocket side and lining and the inturned edge of the front pocket being united to the forwardly extending inturned edge of the side seam.

1,458,633. LATHE TOOL HOLDER. PAUL F. VOKAL, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 10, 1919. Serial No. 329,839. 6 Claims. (Cl. 29—99.)



1. In a lathe tool holder, the combination of a body comprising a shank and a spring head formed integrally with an open ended slot between them, the said body having an aperture extending transversely thereof, and an element adjacent the open end of the slot entirely supported in the aperture and rotatably movable therein to one position to permit resilient action of the head and to another position to prevent such resilient action.

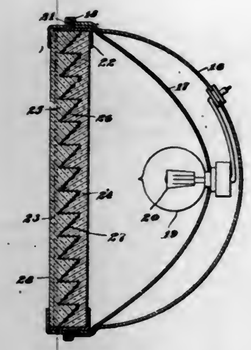
1,458,634. TRANSFORMER COOLER AND ELECTRIC HEATER. ALVIN H. WAAGE, Rosedale, N. Y. Filed Nov. 10, 1921. Serial No. 514,124. 2 Claims. (Cl. 219—47.)



1. A transformer provided with primary and secondary windings, both of which are tubular to permit the flow of liquid therethrough.

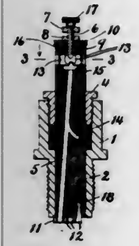
1,458,635. HEADLIGHT SCREEN. LYMAN F. WHITNEY, Boston, Mass., assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 25, 1920. Serial No. 419,194. 3 Claims. (Cl. 240—48.4.)

1. A screen for headlights comprising transparent media having total-reflecting surfaces for transmitting light therethrough by successive reflection from said surfaces, and light-obstructing means behind said surfaces



for substantially preventing direct transmission of light passing through said surfaces.

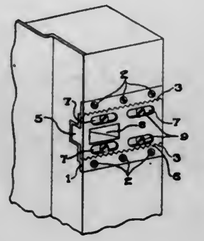
1,458,636. SPARK PLUG. JOSEPH J. WISNIOWSKI, Chicopee, Mass. Filed Sept. 23, 1920. Serial No. 412,292. 1 Claim. (Cl. 123—169.)



The combination, in a spark-plug, with a shell having a ground electrode at the bottom, of an insulator in said shell, central electrode in said insulator, protruding from the bottom of the same at a point remote from the axial center thereof, and having a triangular bottom, and a plurality of jump-spark conductors moulded in said insulator, and projecting below the bottom thereof between the protruding terminal of said lower central electrode member and said ground electrode, the protruding terminals of said lower member and said jump-spark conductors being in a circle which is concentric with the bottom of the insulator, and inside of said ground electrode, and the bottoms of said jump-spark conductors being triangular, and so arranged relative to each other and to said protruding terminal of said lower member that a side of one is in apposition to a side of another.

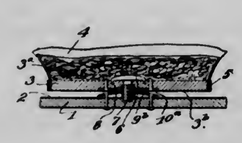
1,458,637. ADJUSTABLE KEEPER PLATE. GEORGE E. ANDERSON, Montpelier, Vt. Filed June 21, 1922. Serial No. 569,998. 1 Claim. (Cl. 292—340.)

An adjustable keeper, comprising a fixed plate having outwardly projecting inwardly directed teeth adjacent to the edges thereof and having threaded openings inward of said teeth, a second plate having its edges toothed to be received between the toothed portion of the first mentioned plate to co-engage with the teeth thereof, said second mentioned plate having a latch receiving socket



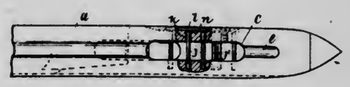
and elongated openings to aline with the threaded openings of the first mentioned plate, and headed bolts passing through these openings to bind the plates together.

1,458,638. HAT HOLDER. REUBEN A. BOGLEY, Washington, D. C. Filed Feb. 18, 1922. Serial No. 537,634. 1 Claim. (Cl. 206—8.)



In a device of the class described, the combination of a foundation, a hat holder comprising a base plate, a threaded shank extending through said plate, means on the inner end of said shank for engagement with said plate, an anchoring plate and a spacing plate, said plates being provided with centrally disposed registering threaded openings and being adapted to cooperate with said threaded shank, said anchoring plate being provided with an inverted dished body portion, whereby the hat holder will be spaced from the foundation.

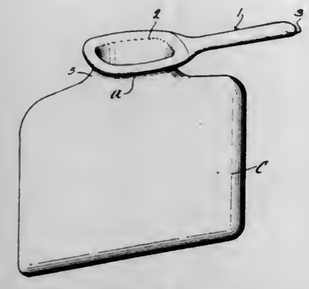
1,458,639. SHUTTLE TENSION. WILLIAM CANOVA, Paterson, N. J. Filed Aug. 4, 1922. Serial No. 579,592. 1 Claim. (Cl. 139—214.)



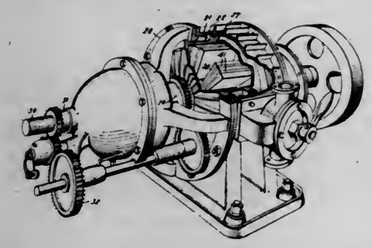
In combination, a shuttle body having a set of substantially parallel elongated holes entering thereinto from one surface thereof, a set of elongated cylindrical pins freely revoluble and having transverse lost-motion in the holes and forming filling guides, and means at the ends of the pins to retain them against displacement out of the holes, such means at one end of each pin being removable.

1,458,640. URINAL. GEORGE R. CHASE, Jefferson, Oreg. Filed Oct. 30, 1922. Serial No. 597,900. 2 Claims. (Cl. 4—19.)

1. A urinal comprising an elongated member provided with an extension at one end to provide an operating handle, said member being also provided with an elongated opening, the major axis of the opening being disposed lengthwise of the member, and a container supported by the member and having an induction opening in communication with the opening of the member.

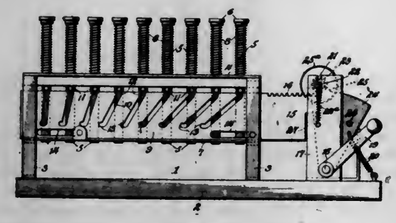


1,458,641. ROTARY INTERNAL-COMBUSTION ENGINE. VOJTECH CIZEK, New York, N. Y. Filed Feb. 25, 1921. Serial No. 448,560. 7 Claims. (Cl. 123—11.)



1. A rotary internal combustion engine comprising a cylindrical casing, a driven shaft extending therethrough, a gearing connecting said casing and shaft for continuously rotating said casing, two sets of radial vanes on said shaft within said casing, and a mechanism associated with each set of vanes for alternately keeping the same stationary and fixing the same to said shaft, the two mechanisms associated with said vanes working in opposition.

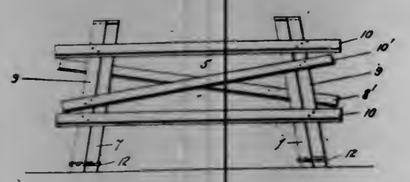
1,458,642. ADDING MACHINE. FREDERIC COLLINS, Philadelphia, Pa. Filed Apr. 21, 1921. Serial No. 463,142. 9 Claims. (Cl. 235—60.)



1. In an adding machine, a manually operable key, a rack bar movable in one direction by depression of said

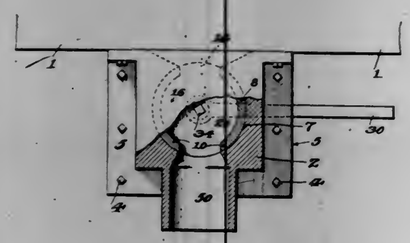
key, a number wheel, a pinion adapted to be engaged by the rack bar for rotating the number wheel, and operator controlled means for holding the pinion out of the path of the rack bar until after the rack bar has been moved by the key, said operator controlled means when moved permitting engagement of the rack bar with the pinion, and means carried by the operator controlled means for engagement with the rack bar to return said rack bar to its initial position, during which movement the number wheel is turned to an extent determined by the movement imparted to the rack bar by the key.

1,458,643. CURING RACK. PHILIP H. J. COVERDALE, Beaumont, Tex. Filed Dec. 2, 1921. Serial No. 519,423. 6 Claims. (Cl. 34—26.)



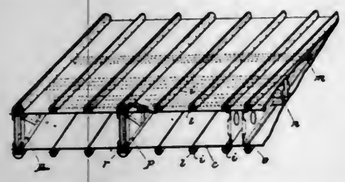
1. A support or rack, comprising two similar panels formed wholly of longitudinal bars and uprights which have end portions which project crosswise of and beyond the longitudinal bars and which are spaced wider apart in one panel than in the other, said bars and uprights being secured back to front and being relatively broad in proportion to their thickness, said panels being adapted to be stood loosely together at an angle to each other and with the backs of the uprights of each panel bearing pivotally against one corner of the adjacent longitudinal bar of the other panel and thereby holding the panels in position so that they will support a load.

1,458,644. GATE VALVE. JOSEPH EDITH DEMPSEY, Acme, Okla. Filed Mar. 4, 1920. Serial No. 363,298. 1 Claim. (Cl. 251—96.)



The combination with a casing having a cylindrical chamber formed with oppositely arranged openings, extending to the bottom wall of the casing, of a valve rotatable in said cylindrical chamber and having spaced depending arcuate wings, the edges of which are arranged in spaced relation to form passages adapted for communication with said openings, said passages being extended out through the end of the valve, the upper end of said casing being provided with a laterally projecting flange, a closure secured to said flange and flatly abutting the adjacent side of said valve, and an operating member connected to said valve.

1,458,645. METALLIC STRUCTURE FOR AIRCRAFT. CLAUDIUS DORNIER, Friedrichshafen, Germany, assignor to Zeppelinwerke Lindau, Gesellschaft mit beschränkter Haftung, Lindaureutin, Germany, a German Corporation. Filed Mar. 31, 1921. Serial No. 457,543. 7 Claims. (Cl. 244—31.)

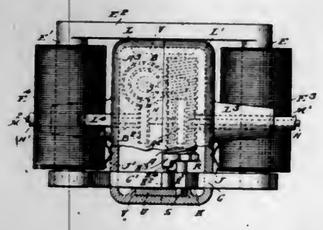


1. In a flying machine supporting surface in combination, a plurality of longitudinal ribs and sheet metal strips extending in parallel with and between said ribs near the upper and lower edges, respectively, thereof, but so as to be set back relatively to said ribs.

1,458,646. PROCESS FOR ABSORBING ETHYLENE AND ITS HOMOLOGUES. RUDOLF ENGELHARDT, Leverkusen, near Cologne, WILHELM LOMMEL, Wiesdorf, near Cologne, and ANTON OSSENBECK, Cologne-on-the-Rhine, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Sept. 26, 1922. Serial No. 590,707. 4 Claims. (Cl. 260—98.)

1. The process which comprises absorbing, ethylene and its homologues in sulfuric acid containing a silver catalyzer.

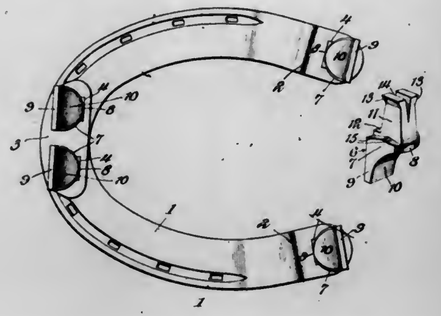
1,458,647. ELECTRIC CLOCK. ELBERT FOWLER, Baltimore, Md., assignor, by mesne assignments, to George Rawak, New York, N. Y. Filed July 7, 1919, Serial No. 308,952. Renewed May 5, 1923. 10 Claims. (Cl. 58—26.)



1. In an electrically driven secondary clock, in combination, a drive worm, electrical means for giving said worm a rotary movement, a second worm, a worm wheel connected to said second worm and adapted to be driven by said drive worm, a worm wheel connected to the minute hand of the clock and arranged to be driven by said drive worm, and a worm wheel connected to the hour hand of the clock and arranged to be driven by said second worm.

1,458,648. HORSESHOE CALK. JOSEPH H. FREEMAN, Shickshinny, Pa. Filed Mar. 29, 1922. Serial No. 547,796. 3 Claims. (Cl. 168—41.)

1. The combination with a metallic shoe provided with a rectangular socket having two opposite walls converging throughout their length from the bottom to the top, and the other two walls converging from the bottom for a major portion of their length and terminating at the top in outwardly-flared seats, of a calk comprising a body member adapted to bear against the lower face of the shoe and having an upwardly-tapering tenon



of resilient material extending therefrom and fitting the socket, said tenon having at its upper end a transverse V-shaped cleft between the flared seats of the socket to permit the insertion or removal thereof.

1,458,649. TIME CALCULATOR. RICHARD N. GARDNER, San Francisco, Calif. Filed Apr. 12, 1922. Serial No. 551,799. 1 Claim. (Cl. 235—70.)



A slide rule calculator comprising a body member having a fixed scale; a movable slide having a scale for indicating the arithmetical difference between any two given points on the fixed scale; and a second movable slide, said second slide having a scale for indicating in terms of a predetermined coefficient the arithmetical difference between any two given points on the scale of the first slide.

1,458,650. PROCESS FOR THE PRODUCTION OF CALCIUM CHLORIDE. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway. Filed Jan. 13, 1922. Serial No. 529,062. 2 Claims. (Cl. 23—13.)

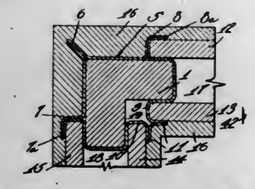
1. Process for the production of calcium chloride consisting in reacting upon a solid unfused mass comprising the calcium oxide with gas containing free chlorine in the absence of substantial amounts of reducing substances at a temperature between 350 and 650° C.

1,458,651. PROCESS FOR THE PRODUCTION OF CALCIUM CHLORIDE. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway. Filed Jan. 13, 1922. Serial No. 529,063. 4 Claims. (Cl. 23—13.)

1. Process for the production of calcium chloride which consists in reacting upon heated calcium carbonate with chlorine gas in the absence of substantial quantities of reducing substances at temperatures, at which the charge to be reacted upon is in a solid condition.

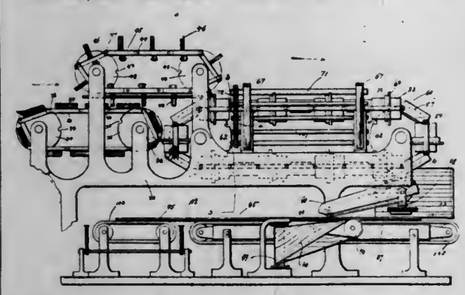
1,458,652. FIREPROOF PARTITION. JAMES C. GOODING, Wellston, Ohio. Filed Apr. 19, 1922. Serial No. 555,580. 2 Claims. (Cl. 72—31.)

1. A wall of the class described comprising a stud in the form of a rigid, solid core, a metal sheathing encasing said core and folded to form combined plate receiving seats and anchors, some of the walls of said



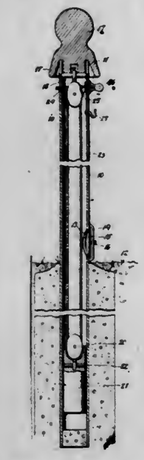
seats being double, the members of which lie in contact with each other whereby the walls are reinforced to resist strains.

1,458,653. SAUSAGE LINKING AND HANGING MACHINE. OTTO C. L. HIRSCH, Chicago, Ill., assignor to Sausage Linking Machine Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1920. Serial No. 429,501. 62 Claims. (Cl. 17—6.)



3. A sausage linking mechanism comprising a sectional feeding mechanism and a twisting mechanism comprising a sectional carrier, the sections of said feeding mechanism being longer than those of the carrier.

1,458,654. CLOTHESLINE POST. WALTER LEO HOTOPP, Jersey City, N. J. Filed Apr. 7, 1921. Serial No. 459,389. 2 Claims. (Cl. 68—3.)



1. A clothes drying device including a shell provided at its upper end with slots opening through the

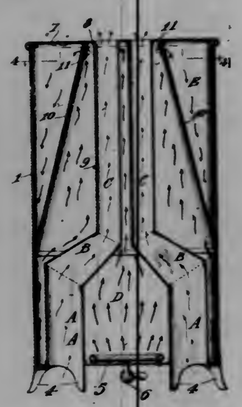
upper end edge of the shell, a removable cap closing the post at its upper end overlying said slots, a cross pin removably received in said slots, and a weight-retracted clothes line suspended from said cross pin.

1,458,655. AGRICULTURAL IMPLEMENT. MAX H. JAHN, Gloversville, N. Y. Filed Apr. 27, 1922. Serial No. 556,882. 6 Claims. (Cl. 55—1.)



1. In an implement for the purpose set forth, the combination of a supporting frame, a beater shaft mounted thereon, means for continuously rocking said shaft, and beater arms secured to and projecting rearwardly and downwardly therefrom.

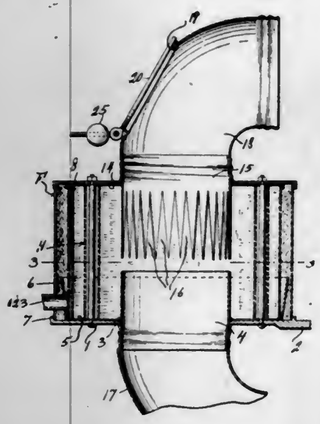
1,458,656. PORTABLE HEATER. CHARLES MELVIN JOHNSON and E MELVIN JOHNSON, Sacramento, Calif. Filed Nov. 2, 1922. Serial No. 598,549. 3 Claims. (Cl. 126—90.)



1. A heater having a burner in its lower portion, hot air flues, each formed of three sections, the intermediate one being angled upwardly and inwardly over the burner, and adapted to be surrounded by the products of combustion, a vent for products of combustion, a perforated conical partition surrounding the upper portion of the flues and between the burner and the vent, and a top for the heater having openings registering with said flues.

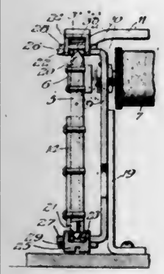
1,458,657. HUMIDIFYING AND FILTERING DEVICE FOR INTERNAL-COMBUSTION ENGINES. EUGENE E. LA ROSE, Niagara Falls, N. Y., assignor to Lasco Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Mar. 23, 1922. Serial No. 546,919. 29 Claims. (Cl. 183—8.)

1. A humidifying and filtering device comprising a casing, the peripheral wall of the casing being perforated, a filtering element associated with said peripheral wall, tubes extending within the casing through the top and bottom walls thereof, the inserted ends of said tubes being substantially in alinement and spaced one



from the other, and a humidifying element within the casing surrounding the tubes and bridging the space between said tubes.

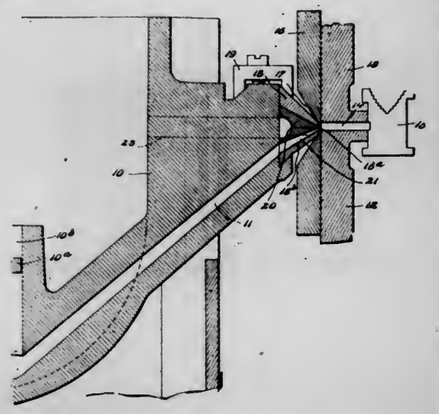
1,458,658. AUTOMATICALLY-ADJUSTABLE BEARING. OSCAR M. LEICH, Genoa, Ill., assignor to Leich Electric Company, Genoa, Ill. Filed Apr. 24, 1918. Serial No. 230,446. 3 Claims. (Cl. 64—49.)



1. A device of the character described comprising a shaft having tapered ends and adjustable ball bearings for both ends of said shaft, said shaft being provided with means to automatically take up wear and permit a slight lateral play of said shaft, said means comprising a spring pressed follower engaging one set of said bearings and adapted to move the same against the tapered end of said shaft, and thereby move the opposite tapered end of said shaft against the other of said ball bearings, said spring yielding to permit said tapered ends to ride along said balls to allow slight lateral play of said shaft.

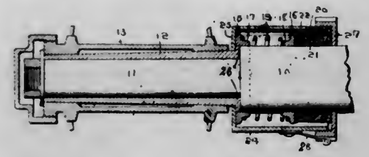
1,458,659. CASTING MECHANISM FOR TYPOGRAPHIC MACHINES. FREDERICK W. LETSCH, Baltimore, Md. Filed May 25, 1920. Serial No. 384,131. 7 Claims. (Cl. 22—70.)

1. In a mechanism of the kind described, a mold having a cavity therein, a pot for containing molten metal having a mouth portion provided with an outlet for conducting molten metal from said pot to said cavity, a rib arranged in said outlet and extending from the upper to the lower wall thereof, whereby molten metal entering said cavity through said outlet is separated into a plurality of streams, said mouth portion of the pot



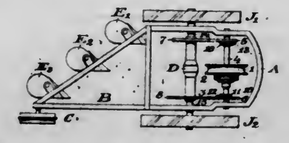
having a passage for the escape of air from said cavity as molten metal is supplied thereto, the opening from said cavity into said passage being arranged in said rib.

1,458,660. PACKING. KARL W. LIEBAU, Fresno, Calif. Filed Sept. 1, 1920. Serial No. 407,385. 1 Claim. (Cl. 288—1.)



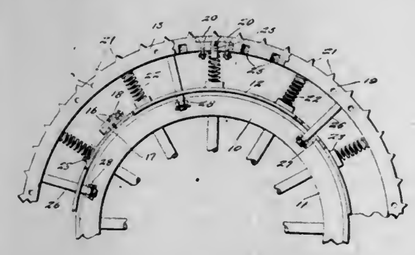
A packing comprising a cylindrical body of compressible material having outwardly directed stop ribs at the ends, a coil of wire embedded in the walls of the body and surrounding the opening thereof and spaced from the inner and outer faces of the same, and a binding coil of wire surrounding the outer face of the body and maintained in position by the stop ribs.

1,458,661. POWER-OPERATED PLOW OR OTHER AGRICULTURAL IMPLEMENT. JOSEPH MALONYAY, Debrecen, Hungary. Filed Apr. 13, 1921. Serial No. 461,052. 3 Claims. (Cl. 97—25.)



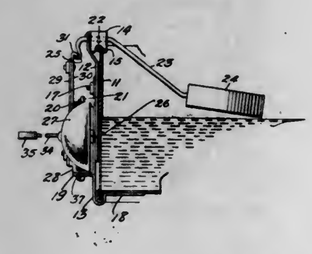
1. An agricultural machine of the class described having a pair of driving shafts each provided with a ground wheel, differential gears connecting said shafts, a countershaft, a pulley loose on the countershaft and adapted to receive power from an external source, means to lock said pulley to the countershaft at will, and power transmission connections between the countershaft and said driving shafts and each including means to compensate for variations in the speed of rotation of the driving shafts.

1,458,662. TIRE. JOHN WALTER MILLER, Kensett, Ark. Filed Dec. 9, 1922. Serial No. 605,947. 3 Claims. (Cl. 152—38.)



3. A resilient tire comprising an inner annular member, an outer member, said outer member comprising a plurality of segmental sections, reduced extremities at each end of each section for overlapping engagement with an adjacent section, means for securing the sections together to provide an annular member, means for securing the inner member upon the rim of a wheel, resilient elements spaced around and located between the inner and outer members to hold the same yieldingly spaced, the inner annular member having spaced elongated slots arranged in pairs with one slot of each pair disposed upon each side of the wheel and guide rods having their outer ends secured to the outer member and their inner ends passing through the elongated slots.

1,458,663. DRIP-PAN SIGNAL. WILLIAM H. MORLEY, Manchester, N. H. Filed Aug. 17, 1922. Serial No. 582,430. 5 Claims. (Cl. 116—110.)

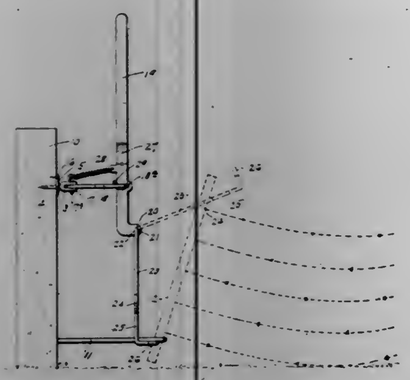


5. A drip-pan alarm including means for attachment to a drip-pan, a frame mounted for swinging movement on the attaching means, a bell carried by the attaching means, a striker carried by the frame, a float carried by the attaching means and provided with means for releasably holding the frame in one position, and spring means for moving the frame toward and away from the bell a plurality of times.

1,458,664. GATE FASTENER. HENRY H. SCHAEFER, Weldona, Colo. Filed Jan. 14, 1922. Serial No. 529,251. 9 Claims. (Cl. 292—247.)

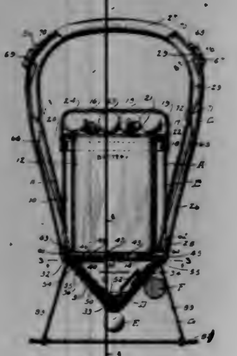
1. In a wire gate fastener or tightener, the combination with a support, of a securing member attached to the support, a lever pivotally connected therewith, a book

pivotally connected with the lever and adapted to engage the gate stick, said hook and lever combining to encircle the gate stick when the hook is engaged with



the gate stick and the lever swung to the fastening position and means carried by the hook for securing the lever in fastening position.

1,458,665. SIGNAL LANTERN. GEORGE W. STEWART, Chicago, Ill. Filed Mar. 29, 1922. Serial No. 547,810. 10 Claims. (Cl. 240—8.5)



1. An electric hand lantern embodying a case, a battery removably fitted in the case, a handle secured to the case, a depending inverted conical reflector carried by the case, and lamps secured to the reflector one at the apex portion of the reflector and one at the side of the cone.

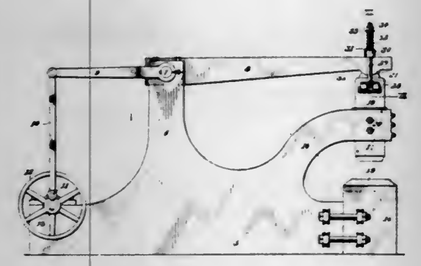
1,458,666. CLAMP. RALPH F. STOPPELLO, Providence, R. I. Filed Dec. 6, 1921. Serial No. 520,299. 1 Claim. (Cl. 304—40.)

A clamp of the class described comprising a box-like body formed of sheet metal, integral flanges formed longitudinally upon one side of said body and arranged near the center of the body and projecting laterally therefrom, clamping bolts passing through said flanges, and stop bolts passing transversely through said body intermediate the ends of the body for limiting the move-



ment of an end of a support through the clamp and constituting an abutment for two adjoining ends of alined support sections.

1,458,667. POWER HAMMER. JOSEPH SUSTARICH, Chicago, Ill. Filed Oct. 6, 1921. Serial No. 505,854. 5 Claims. (Cl. 78—32.)

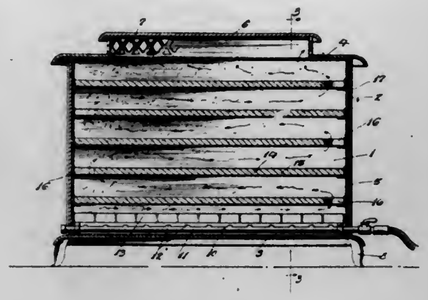


1. In a power hammer wherein a helve is provided and mounted for vertical swinging movement and wherein a hammer is slidably guided for vertical movement adjacent the free end of the helve, a yoke extending through said hammer and upwardly along opposite sides of the helve, and a transverse cross head slidably mounted upon the yoke above the helve and pivotally mounted transversely in the upper surface of the latter.

1,458,668. HEATING STOVE. CORNELIUS L. TAYLOR, Huntington, W. Va. Filed July 30, 1921, Serial No. 488,645. Renewed Apr. 4, 1923. 1 Claim. (Cl. 126—85.)

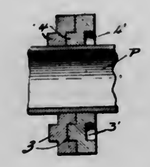
In a heating stove of the class described, a body having side walls, end walls, and a bottom, a burner arranged longitudinally on the bottom, a narrow apertured flame spreader secured to the burner and extending longitudinally thereof, said body being provided with air intake openings located adjacent the bottom, a dome on the top of the body having openings through its sides, supporting ledges upon the end walls of the body, and flat baffle slabs resting horizontally upon said ledges and having their edges abutting the respective walls of the

body, said slabs being each provided with a recess in one end and the slabs being arranged in spaced relation one above the other with said recesses alternately at



opposite ends of the body, said flame spreader being situated between said burner and the lowermost one of said slabs.

1,458,669. SECTIONAL FIRE GRATE. AUSTIN TERRY-BERRY, Duluth, Minn. Filed Sept. 12, 1919. Serial No. 323,273. 5 Claims. (Cl. 126—180.)



2. The combination of a fixed supporting member and a plurality of substantially U-shaped grate sections, said U-shaped sections being adapted to be slipped over the supporting member from opposite sides, and mortise and tenon means carried by each of said sections to interlock the same to prevent independent rotary or radial movement of any section, the assembled sections being rotatable upon said supporting member.

1,458,670. MANUFACTURE OF ALKYLIZED DERIVATIVES OF HYDROCUPREINE. HEINRICH THRON, Frankfort-on-the-Main, Germany, assignor to The Firm of Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Apr. 9, 1921. Serial No. 460,025. 5 Claims. (Cl. 260—26.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A process for the manufacture of alkyl derivatives of hydrocupreine, characterized by hydrocupreine oxide, being alkylized by the usual alkylizing means, the alkylized products being converted by reducing means into alkyl-derivatives of hydrocupreine.

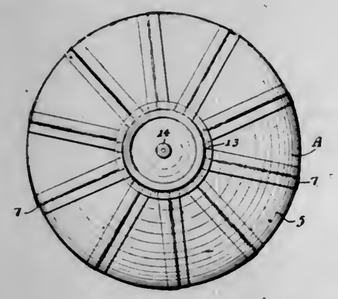
1,458,671. SAW CONSTRUCTION. ANTON WESTGARD, Chicago, Ill., assignor of one-half to Anna H. Westgard, Chicago, Ill. Filed Dec. 31, 1921. Serial No. 526,217. 10 Claims. (Cl. 143—151.)

1. In a saw, a body provided with recesses to receive saw teeth and locking means therefor, saw teeth, and a locking means comprising serrated members adapted to



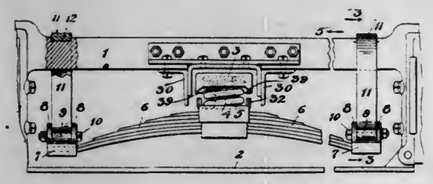
be forced against said tooth by engagement with said saw body as said members are drawn one toward another.

1,458,672. BALL. CHARLES C. WITMER and BECKWITH HAVENS, Hammondsport, N. Y., assignors to Airships Incorporated, Hammondsport, N. Y., a Corporation of New York. Filed Nov. 17, 1921. Serial No. 515,930. 3 Claims. (Cl. 46—4.)



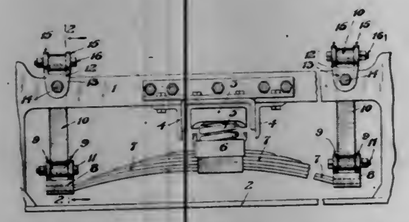
1. A ball formed of balloon cloth consisting of a plurality of gores having their edges arranged in overlapping relation and cemented together, disc shaped end walls cemented to the terminals of the gores, and reinforcing and sealing strips disposed over the meeting edges of the gores and end walls.

1,458,673. CAR TRUCK. WALTER S. ADAMS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 608,420. 6 Claims. (Cl. 105—192.)



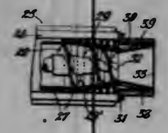
2. In a car truck, a truck frame, a hanger resting on the upper edge of said frame and having its side members extending downwardly on opposite sides thereof, said hanger being free to oscillate on said frame, a spring seat secured to the lower end of said hanger and free to swing independent of said hanger, a leaf spring having its end supported on said seat, a bolster supported by said spring and a link extending between said bolster and spring for retaining said spring in a horizontal position.

1,458,674. CAR TRUCK. WALTER S. ADAMS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Dec. 22, 1922, Serial No. 608,420. Divided and this application filed Feb. 17, 1923. Serial No. 619,553. 4 Claims. (Cl. 105—192.)



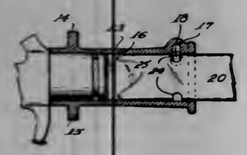
1. In a car truck, a truck frame, a bracket secured thereon, a link having one of its ends pivoted in said bracket and extending downwardly on one side only of said frame, and a spring seat pivotally secured to the lower end of said link.

1,458,675. APPARATUS FOR FORMING STRIPS OF ASBESTOS-CEMENT MATERIAL. ROBERT H. ANDERSON, Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company, a Corporation of Pennsylvania. Filed July 6, 1921. Serial No. 482,692. 1 Claim. (Cl. 25—11,)



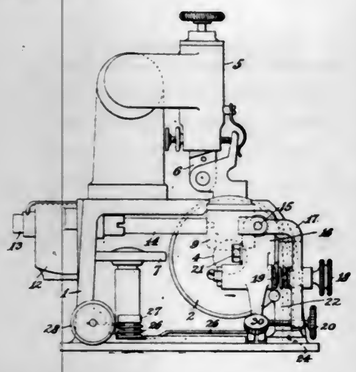
In apparatus for forming asbestos-cement slabs and the like the combination with an auger machine adapted to feed a plastic mixture of asbestos and cement, of a die having its entrance orifice matching vertically and horizontally the outlet from said auger machine and having a pair of guiding surfaces contracting the die passage in the direction of flow and a second pair of guiding surfaces diverging in the direction of flow, said four guiding surfaces at the discharge forming a relatively narrow orifice shaping the asbestos cement material into a flat ribbon.

1,458,676. LIFTING JACK. EDMUND C. BATES, Alliance, Ohio, assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio, a Corporation of Ohio. Filed Apr. 28, 1922. Serial No. 557,090. 12 Claims. (Cl. 254—111.)



1. In a device of the class described, the combination with an operating lever for a jack having a notched handle associated therewith, said lever having a slot therein, and means movable in the slot and adapted to engage the notch for clamping the member and the lever together.

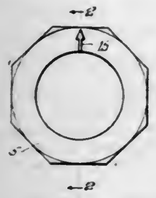
1,458,677. SKIVING MACHINE. AUGUST BERRER, Feuerbach, Germany, assignor to Fortuna Machine Company, New York, N. Y., a Corporation of New York. Filed Sept. 2, 1921. Serial No. 498,093. 8 Claims. (Cl. 69—95.)



1. In a skiving machine, the combination of a housing, an annular knife, a feed roll cooperating therewith, a vertical spindle fixed in the housing, a carrying member capable of being rocked about the spindle, a lever supported by the carrying member on a horizontal axis normally at right angles to the axis of the annular knife, and a second lever mounted on the first named lever on an axis at right angles to the axis of the first named lever and supporting the feed roll.

8. In a skiving machine, the combination of a housing, an annular knife, a feed roll cooperating therewith, a lever supporting the feed roll and mounted on an axis normally parallel with the axis of the knife, a second lever supporting the first named lever and mounted on a horizontal axis normally at right angles to the axis of the knife, a carrying member supporting the second named lever, and a vertical spindle fixed in the housing and upon which the carrying member is capable of being rocked about a vertical axis.

1,458,678. BUSHING FOR RADIATORS. ALBERT A. BEST, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 443,018. 2 Claims. (Cl. 137—75.)

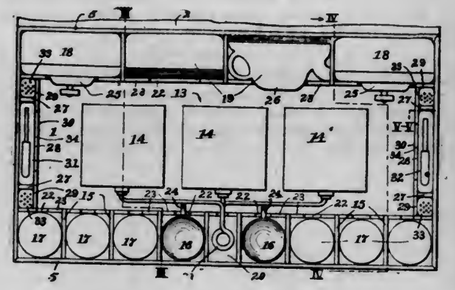


1. A radiator bushing having a single pipe connecting passage therethrough, a deflecting wall for interposition between the first and second loops of the radiator and serving to direct the incoming water upwardly in the first loop, and a by-pass interconnecting the first and second loops.

1,458,679. CAMP AND LUNCH KIT. ARTHUR H. BISHOP, New York, N. Y. Filed Oct. 9, 1920. Serial No. 415,856. 2 Claims. (Cl. 206—4.)

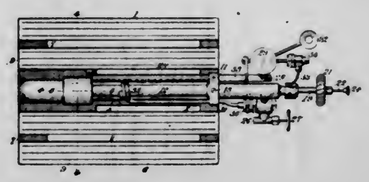
1. A portable lunch kit having a receptacle, strips fixed along the bottom of said receptacle and arranged

parallel to the walls thereof, partitions dividing the space between said strips and the walls into separate racks for holding utensils, there being a notch in each of said



strips between adjacent partitions for receiving projecting portions of the utensils when mounted in said racks, and a cover for said receptacle adapted, when closed to retain said utensils in the receptacle racks.

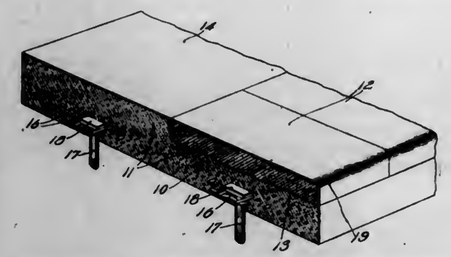
1,458,680. HYDROCARBON GENERATOR AND BURNER. GEORGE N. BLANCHARD and CLARENCE F. COLMAR, San Francisco, Calif., assignors to Colmar Burner Company, San Francisco, Calif., a Corporation of California. Filed Oct. 19, 1920. Serial No. 418,033. 2 Claims. (Cl. 158—53.)



2. A gaseous fuel burner construction consisting of a burner member, formed in a single casting having a hollow interior and substantially rectangular in plan, said casting provided on each side of its longitudinal center with a plurality of parallel burner channels separated intermediate their ends by an air passage affording a cooling chamber, the upper surface of said burner channels being substantially flat and disposed in the same plane and provided with a plurality of parallel spaced longitudinally extending burner slots, a mixing dome formed integral with the casting and disposed centrally thereof, a generator and tube overlying the burner casting and discharging into said mixing dome, and valve controlled means for supplying liquid fuel to said generator.

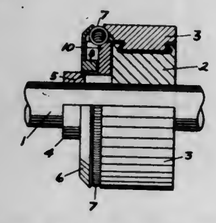
1,458,681. SLIPPROOF STAIR UNIT. ARTHUR BONIFACE, New York, N. Y., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1919. Serial No. 281,770. 1 Claim. (Cl. 72—96.)

A unitary, integral stair slab comprising a supporting portion of cement, a row of wear-resisting, anti-slipping tiles of ceramic bonded abrasive grains forming the forward part of the tread surface of the slab, said tiles being rough and porous and having plane upper surfaces, rounded abrasive edges forming the nose of the slab and under surfaces integrally adhering to the cement, a portion comprising cement in the rear of the tiles having



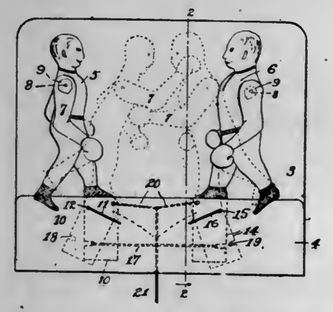
a plane tread level and continuous with the surface of the tiles and a securing device embedded in said slab for fastening it to a foundation.

1,458,682. SHORT-CIRCUITING DEVICE. HERBERT L. BAUMP, Dayton, Ohio, assignor to The Dayton Fan & Motor Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 4, 1922. Serial No. 549,572. 2 Claims. (Cl. 172—279.)



1. In an alternating current motor, an armature shaft, a commutator mounted thereon, a cup-shaped disc mounted on said shaft to face the commutator, guiding projections on said disc, centrifugal weights mounted between the disc and commutator and free to move outwardly along said projections, and a flexible element adapted to be moved outwardly by the centrifugal weights, when the armature shaft attains a certain speed, to make contact between the rim portion of the cup-shaped disc and the commutator for the purpose of short circuiting the latter.

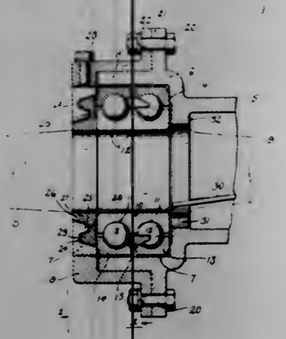
1,458,683. TOY FIGURE. ARVID F. CARLIN, Mamaroneck, N. Y. Filed Dec. 17, 1921. Serial No. 523,032. 2 Claims. (Cl. 46—40.)



1. A figure toy comprising a pair of upright adjacent supports, a pair of figures each pivoted between the sup-

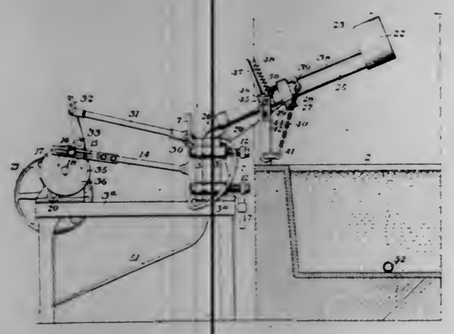
ports at the foot portion and having an extension on the foot portion beyond the pivot portion, an elastic member connecting such extensions between the supports to draw them together and thereby swing the figures apart, a flexible member connecting said foot portions between the supports above the pivot portions, an actuating member attached to the flexible member to draw the figures together and thereby tension the elastic member, whereby on operation and release of the actuating member the tensioned elastic member will rock the figures on their pivots and swing them apart, and a loop member on said supports engaging the extensions to limit their approach caused by the elastic member.

1,458,684. AXLE CONSTRUCTION. EVERETT J. COOK, Oshkosh, Wis., assignor of one-half to Wisconsin Parts Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Aug. 28, 1920. Serial No. 406,722. 4 Claims. (Cl. 64—24.)



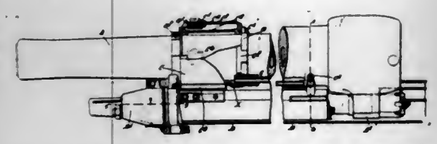
1. In a device of the class described, the combination with a casing having a bearing compartment, a bearing member mounted therein and a shaft journaled in said bearing member, of means comprising a passage within said casing for supplying lubricant to the bearing compartment, and a spinner member mounted on said shaft within the bearing compartment whereby its rotation will retain the lubricant in said compartment by centrifugal force.

1,458,685. CASTING MACHINE. WALTER T. DAVIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed May 20, 1921. Serial No. 471,105. 12 Claims. (Cl. 22—57.)



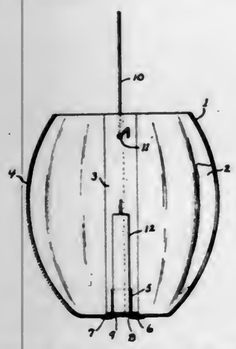
1. The combination with a tank or vessel adapted to contain molten metal, of a mold mounted adjacent thereto, an oscillating ladle having means normally preventing discharge therefrom, and means for oscillating said ladle to alternately immerse it in the tank to be filed and to bring it into discharging relation to the mold, said first mentioned means being automatically moved to inoperative position when the ladle reaches said discharging relation, substantially as described.

1,458,686. ORDNANCE RECOIL APPARATUS. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed July 9, 1919. Serial No. 309,786. 10 Claims. (Cl. 89—43.)



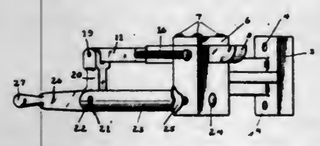
1. In ordnance, the combination with the gun barrel and the recoil cylinder, of a tank for containing liquid, means for establishing communication between said tank and said cylinder, means for connecting said tank to the gun barrel, and an isolating valve for cutting off communication between said tank and cylinder when required.

1,458,687. DECORATIVE LANTERN. VICTOR E. DESSART, Brooklyn, N. Y. Filed Oct. 17, 1922. Serial No. 595,035. 1 Claim. (Cl. 240—16.)



A decorative lantern comprising in combination a front member, an outwardly extending peripheral band secured to said front member, a back member arranged to fit over the band on said front member to close said lantern, a candle socket provided with means for locking the lower ends of said front and back members; and a handle provided with means for locking the upper ends of said front and back members.

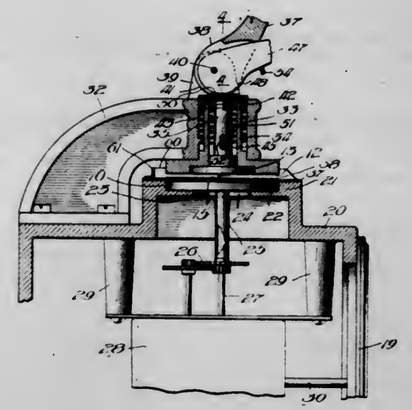
1,458,688. SAFETY DEVICE FOR POWER PRESSES. JAMES F. DUXBURY, Providence, R. I. Filed Aug. 24, 1922. Serial No. 583,979. 2 Claims. (Cl. 74—39.)



1. The combination with a press, having its controlling lever located at one side, of a detent support comprising

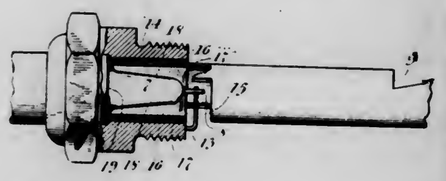
a base at one end and a guide block at the other, there being a guide formed in said guide block, a detent slidably mounted in said guide, a link pivotally attached to one end of said detent, a bell crank lever, a support for said bell crank lever detachably secured to said guide block, one arm of said bell crank being pivotally attached to the said link, a handle on the other arm of said bell crank, and springs which hold one end of said detent normally projected beyond the face of the guide block.

1,458,689. ELAPSED-TIME RECORDER. CHARLES S. ELLIS, Chicago, Ill. Filed Apr. 9, 1920. Serial No. 372,409. 12 Claims. (Cl. 234—55.)



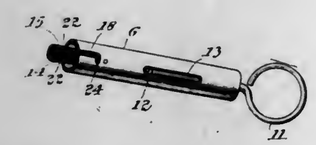
1. An elapsed time recorder for printing over a permanent dial of a card time elapsed indicating markings of a rotating member, comprising a single rotative clock-driven die having a printing face composed of an annular series of time graduations and a single relatively fixed radial marker, relatively movable platens coaxial with each other and the die, one within and of smaller diameter than the other, and means to move said platens simultaneously towards the die, and one of them separately towards said die, whereby the imprint of said marker from the latter platen is shorter than the imprint produced by the coaction with said marker from both platens.

1,458,690. SPARK-PLUG CLEANER. FRANKLIN H. ELWELL, Chicago, Ill. Filed Aug. 21, 1920. Serial No. 405,184. 9 Claims. (Cl. 15—104.01.)



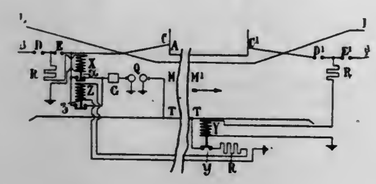
1. A spark plug cleaner provided with an inwardly projecting blade, a support therefor, said blade having a cutting edge shaped to conform to the outer surface of the spark plug insulator.

1,458,691. SPARK-PLUG CLEANER. FRANKLIN H. ELWELL, Chicago, Ill. Filed Sept. 7, 1920. Serial No. 408,434. 10 Claims. (Cl. 15—104.01.)



1. A spark plug cleaner, provided with a brush the bristles of which are normally straight and arranged longitudinally in a hollow circular form and adapted to substantially surround and thereby adapted to remove deposits of carbon and other material from substantially the entire surface of the insulator for a spark plug.

1,458,692. CONDUCTOR ARRANGEMENT OF ELECTRIC TRACTION SYSTEM. CHARLES EDWARD FAIRBURN, London, England. Filed Sept. 22, 1920. Serial No. 412,097. 4 Claims. (Cl. 191—3.)



1. In a conductor arrangement for an electric traction system comprising a main conductor and a supplementary conductor fixed in position and to be made alive when a vehicle is about to enter the section comprising the supplementary conductor, the combination of an electro-magnetic device having a coil normally separated from both the main and supplementary conductors but connectible with the main conductor by the agency of the vehicle and an electric connection closed thereby when the device is energized and serving to make the supplementary conductor alive, a second electro-magnetic device energized from the supplementary conductor when it is alive and serving to keep this conductor alive, and means for deenergizing the said second electro-magnetic device, said de-energizing means comprising a third electro-magnetic device fed from the conductor system through the collector arrangement of the vehicle when it is near the point at which it leaves the supplementary conductor.

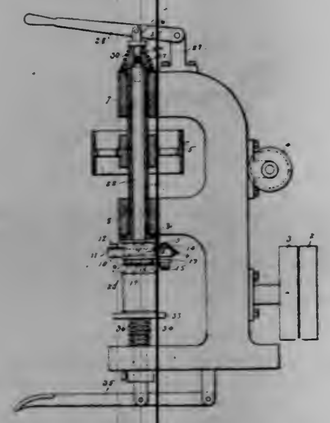
1,458,693. MANUFACTURE OF RUBBER. WILLIAM FELDENHEIMER, London, WALTER WILLIAM PLOWMAN, East Sheen, and PHILIP SCHIDROWITZ, London, England. Filed Aug. 12, 1921. Serial No. 491,829. 16 Claims. (Cl. 106—23.)

1. The process for the manufacture of rubber compositions which comprises the incorporation of clay in conjunction with a saponaceous material in the dry state with a rubber mixture.

1,458,694. CAN-CLOSING MACHINE. ROBERT FLANIGAN, Baltimore, Md. Filed Aug. 3, 1922. Serial No. 579,329. 7 Claims. (Cl. 113—24.)

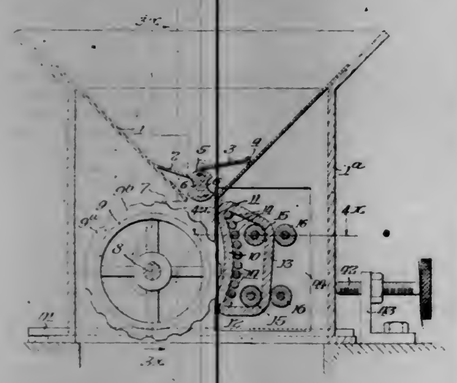
1. A can closing tool comprising a head, a ring revolubly mounted on one end of said head, a tool member

adapted to be reciprocated in said head, and a spinning wheel carried by said tool member and adapted to co-



operate with said ring to close the can seam, and a plunger operating within the head on said tool member.

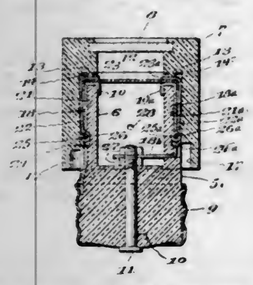
1,458,695. ALMOND-BLANCHING MACHINE. JULIUS FRANK and JOE DAVIS PIRTLE, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 543,861. 12 Claims. (Cl. 146—32.)



1. In a nut blanching machine, the combination of a revolving cylinder and a traveling belt having a concaved path adjacent to the periphery of said cylinder; means being provided for driving said cylinder and belt at different speeds.

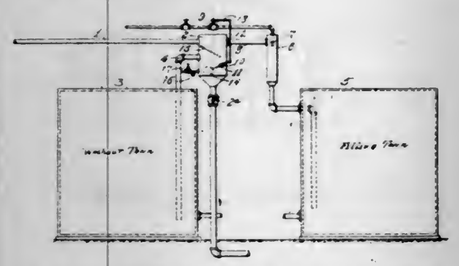
1,458,696. FUSE. HALL GOODWIN, Chicago, Ill. Filed Feb. 9, 1922. Serial No. 535,265. 5 Claims. (Cl. 200—130.)

1. An electric fuse comprising a chambered plug of insulating material, the chamber opening through one end of the plug, a fusible element extending across the outer end of the chamber, conductor members carried by the plug, with which members the ends of the fusible element are in contact, pivoted clamping members carried by the conductor members and engageable with the ends of the fusible member for holding the same in contact with the conductor members, and a cap removably mounted on the end of the plug through which the cham-



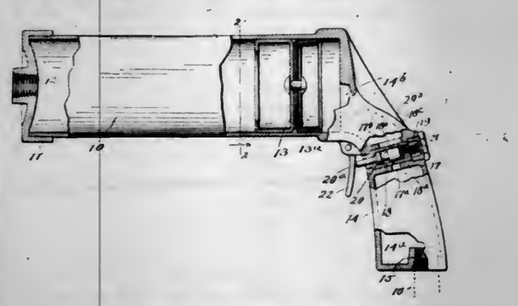
ber opens, the interior of said cap engaging the clamping members for maintaining the contact between the conductor members and the ends of the fusible element.

1,458,697. CONDENSER FOR BOILER-WASHING SYSTEMS. LESLIE B. GRAHAM, East Chicago, Ind. Filed Oct. 17, 1919. Serial No. 331,284. 9 Claims. (Cl. 122—396.)



1. In combination with a hot water system, a receptacle receiving hot water, a condenser connected to receive vapor arising from the water in said receptacle, means in said receptacle for controlling the admission of water to said condenser that is in turn controlled by water in said receptacle and continues under control thereof during the presence of said water therein, and means for effecting a delayed discharge of water from the receptacle.

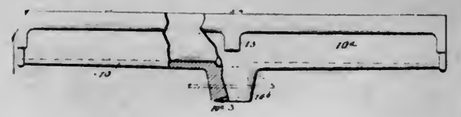
1,458,698. PNEUMATIC GREASE GUN. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 11, 1918. Serial No. 261,991. 2 Claims. (Cl. 221—78.)



1. In a lubricating device of the character described, a barrel adapted to be filled with lubricant and provided

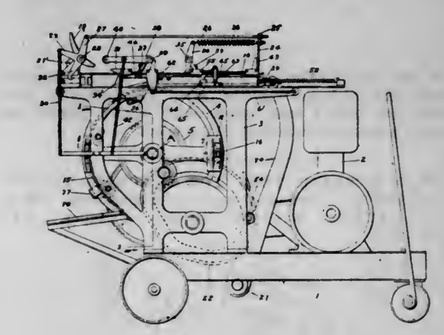
at its forward end with a discharge opening, and a piston adapted to be moved lengthwise of the barrel under air pressure, said barrel having at its rear end a hollow grip forming a continuation of the barrel to which an air supply member is adapted to be connected, said grip being provided with a valve between the point of supply of the air and the barrel, said valve comprising a valve chamber, a movable valve member, and inlet and exhaust ports through which air is supplied to or exhausted from the barrel.

1,458,699. METHOD OF FORMING METAL ARTICLES. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 3, 1922. Serial No. 558,183. 3 Claims. (Cl. 78—81.)



1. The method of producing metal articles which consists in forging a member with an elongated body and with a protuberance between the ends, and upsetting the protuberance to form a laterally extending flaring or conical supporting head.

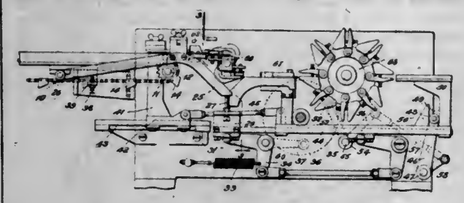
1,458,700. METHOD OF AND APPARATUS FOR DECORTICATING FIBROUS STOCK. WINFIELD S. GROVE, Manila, Philippine Islands. Filed July 15, 1919. Serial No. 310,897. 14 Claims. (Cl. 19—34.)



13. In a machine of the class described, the combination of means for decorticating one portion of the stock while the stock is held stationary, means for decorticating the remainder of the stock while the stock is in motion, and means for moving said last-named decorticating means into operative position during the first-mentioned decorticating operation and without moving the stock.

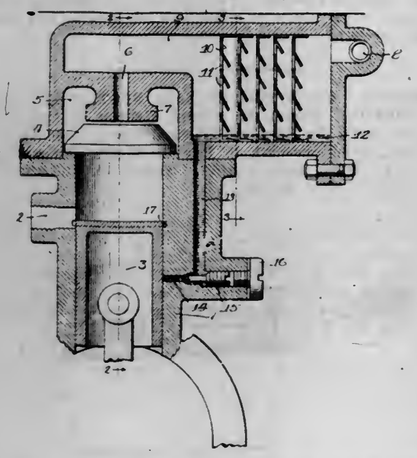
1,458,701. CONVEYER MECHANISM. EDWARD HAAS, Brooklyn, N. Y.; assignor of one-half to Milford B. Ferguson, Brooklyn, N. Y. Filed Mar. 17, 1922. Serial No. 544,466. 12 Claims. (Cl. 198—24.)

1. A conveyer mechanism for conveying a series of articles to a machine provided with a plunger for introducing the articles one at a time into the machine, comprising a conveyer provided with a series of lugs for carrying forward the series of articles, a pair of horizontally-disposed jaws for receiving the articles one at a time from the conveyer, means on which the lower jaw is fixedly mounted and on which the upper jaw is yieldingly



mounted, and means for moving the jaws from the point of receiving the articles to the point where they are introduced into the machine.

1,458,702. COMPRESSOR. CHARLES C. HANSON and JOHN TWARDOWSKY, Chicago, Ill., assignors, by mesne assignments, to Universe Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,781. 11 Claims. (Cl. 230—6.)



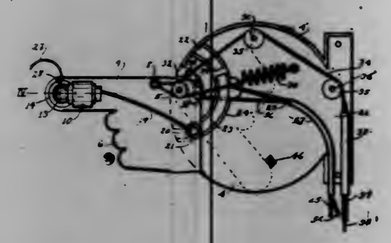
1. In a compressor and in combination, an oil reservoir, oil-separating means in the discharge passage of the compressor, and oil return means operatively connecting the oil-separating means automatically with the oil reservoir only during the discharge of compressed fluid from the compression chamber.

11. In a fluid compressor and in combination, an oil reservoir, oil-separating means disposed in the discharge passage of the compressor, means actuated by the pressure of the compressed fluid adjacent to the oil-separating means for returning separated oil to the oil reservoir; and a compression chamber interposed between the compressor and the oil-separating means and having a restricted opening towards the latter so as to reduce the speed with which the compressed fluid passes the oil-separating means.

1,458,703. COMBINED SIGNAL, SPOTLIGHT, AND MIRROR. DANIEL L. HARRIS, GEORGE L. COFFMAN, and HEIM W. RESNICK, Wichita, Kans.; said Harris assignor of one-sixth to Ray G. Rogers, Ponca City, Okla. Filed Mar. 14, 1921. Serial No. 452,356. 1 Claim. (Cl. 116—52.)

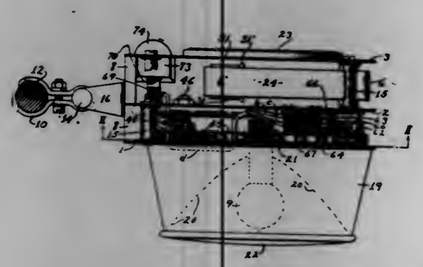
In a combined signal, spot light and mirror, a housing member having a slot in the outer edge portion thereof;

a hollow semaphore in the shape of a human hand pivotally mounted within the housing and normally concealed therein by spring means; means for outwardly and arbitrarily pivoting said semaphore through said slot against said spring resistance; an electric bulb in an electric circuit within the extended forefinger portion of the hand;



colored lenses arranged on opposite sides of the bulb in openings through the side walls of the housing with slits adjacent thereto facing the point of pivot; and conducting segments concentric with the pivot cooperating with means on the pivotable semaphore for opening and closing the electric circuit to said bulb.

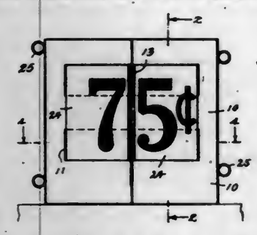
1,458,704. COMBINED SIGNAL, SPOTLIGHT, AND MIRROR. DANIEL L. HARRIS, GEORGE L. COFFMAN, and HEIM W. RESNICK, Wichita, Kans.; said Harris assignor of one-sixth to Ray G. Rogers, Ponca City, Okla. Filed May 2, 1921. Serial No. 466,326. 2 Claims. (Cl. 116—54.)



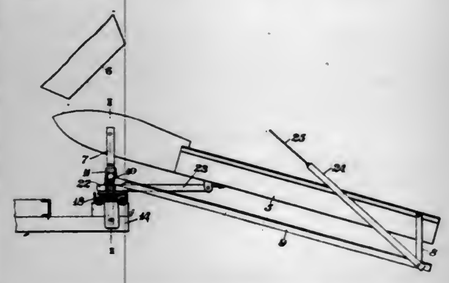
1. A combined electric signal, spot light and mirror a housing having three plates spaced apart in parallelism to form front and rear compartments; a mirror on the rear surface of the back plate and a spot light and housing forwardly positioned from the front plate; a cover plate closing the compartments having a slot; a signaling pointer in the form of a hollow hand pivotally arranged in and concealed within one compartment and adapted to be projected outwardly through said cover plate slot into visible positions; an electric bulb within the hollow hand, and prism means for deflecting light to illuminate the inner parts of the hollow hand.

1,458,705. PRICE MARKER. MAX HOPP and MAX LEVINE, New York, N. Y. Filed July 19, 1922. Serial No. 575,985. 2 Claims. (Cl. 40—86.)

1. In a price marker, a body having a window, said body being provided with rearwardly projecting stiffening members having pairs of aligned bearing holes, one hole of each pair being larger than the other, a pair of parallel rollers journaled in said holes opposite the ends of the window and back of the same, each roller comprising two leg portions fitted close together in one of said holes and sprung apart in the other of said holes, and a carrier for price characters attached to said rollers and adjustable endwise along the window to bring any selected section of the carrier in position to be visible at the window.

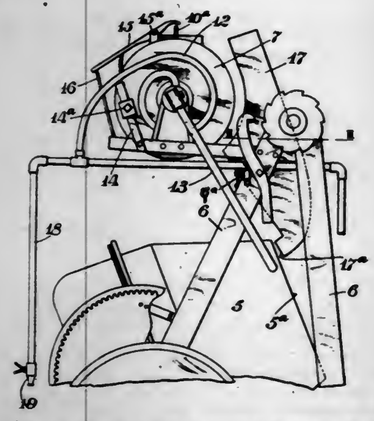


1,458,706. SPOUT FOR CONCRETE-MIXING MACHINES. GEBHARD JAEGER, Columbus, Ohio. Filed Apr. 8, 1921. Serial No. 459,691. 2 Claims. (Cl. 198—220.)



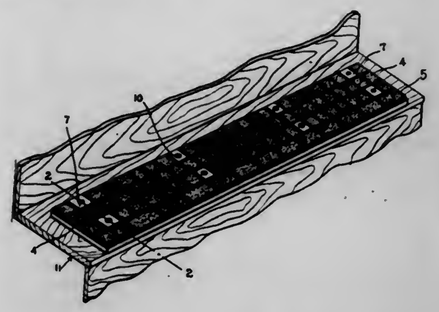
1. The combination of a distributing spout, eccentric means for reciprocating the same longitudinally and means for driving said reciprocating means adapted to permit horizontal swinging of the spout.

1,458,707. WATER TANK FOR CONCRETE-MIXING MACHINES. GEBHARD JAEGER, Columbus, Ohio. Filed Nov. 14, 1921. Serial No. 514,949. 6 Claims. (Cl. 83—73.)



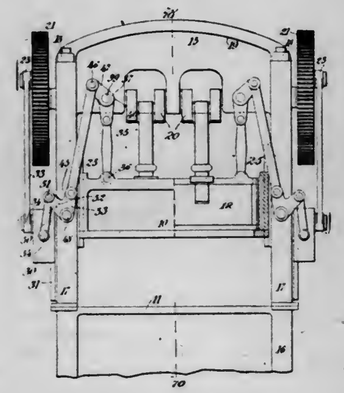
1. The combination with a mixing drum, of means for supplying water thereto including a tank, means for swinging the same to discharging and charging position and means carried by the tank for automatically supplying and controlling the supply of water to said tank in the charging position.

1,458,708. SAFETY-TREAD UNIT. GEORGE N. JEPPSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 8, 1921. Serial No. 499,278. 4 Claims. (Cl. 20—79.)



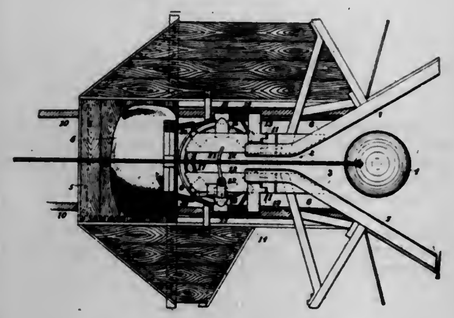
1. An anti-slipping stair tread unit comprising a metallic base having an upturned front edge, a cementitious matrix thereon, a set of bonded abrasive tiles embedded therein and arranged in the rear of and projecting above said edge to form a substantially plane top surface and the nosing of the tread, and means whereby the unit may be secured to a stair floor.

1,458,709. PRESS. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed Nov. 30, 1920. Serial No. 427,419. 16 Claims. (Cl. 113—38.)



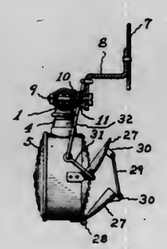
1. A press, comprising a frame having a side part, a blank holder or die-carrying slide, and means for operating the same, said means comprising a driving part, an actuating slide, connections between said slide and driving part, and connections between said actuating slide and blank holder slide, said connections being pivoted to said actuating slide on axes at right angles to one another, said connections between said actuating slide and blankholder slide comprising a toggle having a bearing at one end on the side frame of the press adjacent said actuating slide and turning around an axis parallel with said side frame.

1,458,710. DEVICE FOR CATCHING MAIL AND FUEL BY AN AIRPLANE IN FLIGHT. STEPHEN W. KOLCZEWSKI, Buffalo, N. Y. Filed June 19, 1918. Serial No. 240,840. 18 Claims. (Cl. 258—1.)



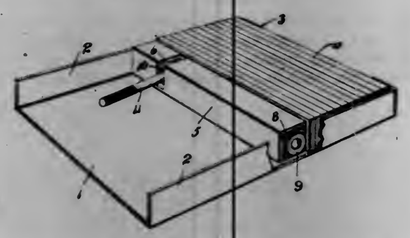
1. Supply means for aircraft, comprising guide means including a throat, releasing mechanism located at said throat and including a pair of spring arms arranged to hold a suspending ring of a receptacle in position, said suspending ring having an entrance in coincidence with said throat for receiving a weighted cable pendent from an airplane, and bosses carried by said ring engaged by said spring arms to hold the ring in position and enabling the releasing of said ring from the releasing mechanism when the weight on the cable engages the ring.

1,458,711. VEHICLE DIRECTION INDICATOR. FLOYD KOPPENHAFER, Shinrock, Ohio. Filed Nov. 1, 1920. Serial No. 420,928. 7 Claims. (Cl. 177—439.)



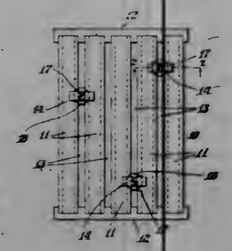
1. A vehicle direction indicator including a bracket arm, a signal lamp carried thereby, a semaphore mounted thereon, a plunger slidably mounted upon the bracket arm and operatively connected to the semaphore, and an electric circuit including the signal lamp and provided with spaced contacts, arranged at one side of the plunger in a direction parallel to the movement thereof, the plunger being formed with an offset portion which is arranged to automatically bridge the contacts and flash the signal lamp when the semaphore is moved into operative position.

1,458,712. GALLEY LOCK. JAMES EDGAR LEE, Grand Haven, Mich., assignor to The Challenge Machinery Company, Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 3, 1922. Serial No. 549,271. 6 Claims. (Cl. 276—43.)



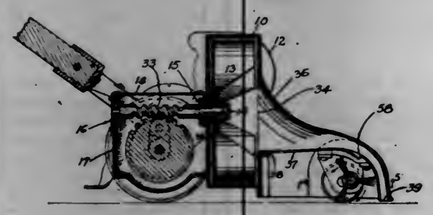
1. A galley lock comprising an elongated hollow body, a rod oppositely threaded at its ends located within and lengthwise of the body, nuts on the ends of the rod located at the ends of the body, and means for manually turning the rod from outside of the body.

1,458,713. COPYHOLDER. HOWARD SPENCER LEVY, Philadelphia, Pa. Filed July 14, 1921. Serial No. 484,590. 5 Claims. (Cl. 129—28.)



5. A copy holder comprising a frame provided with substantially parallel guideways therein, flat spring engaging members overlying said guideways and projecting beyond the opposite edges of said guideways, a depending stem carried by said flat spring and provided with an adjustable nut at its free end, and a coil spring surrounding said stem and having one of its ends seated against said nut and the opposite end thereof seated against the under surface of said frame at each side of said guideways, whereby said engaging members may be moved axially of said guideways and with respect to the surface of said frame.

1,458,714. VACUUM CLEANER. WALDEMAR LINNE LINDGREN, Chicago, Ill., assignor to Alfred A. Norton, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 489,964. 3 Claims. (Cl. 15—8.)



1. In a vacuum cleaner, the combination with a nozzle casing, of means for producing a vacuum in said casing, a brush rotated over the floor as the cleaner moves, a main nozzle opening into said casing adjacent the floor line, and an auxiliary inlet to said casing located well above the floor line and the main nozzle so as to draw into the casing material lifted from the floor and carried thereto by the brush, said auxiliary inlet having one edge adapted to contact with the periphery of the brush as it rotates past it to loosen the dirt thereon.

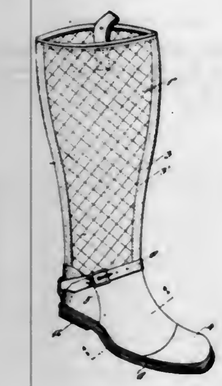
1,458,715. PROCESS FOR MAKING NITROBENZOIC ACID AND INTERMEDIATES. ELLIS A. LLOYD, New York, and VICTOR P. GERSHON, Brooklyn, N. Y., assignors to William M. Grosvenor, New York, N. Y. Filed Mar. 23, 1920. Serial No. 368,162. 5 Claims. (Cl. 260—108.)

2. The process of making mono-nitro-benzoic acid in which mono-nitro-toluol is treated with nitric acid and adding further nitric acid after the reaction has progressed, to build up the strength of the acid which oxydizes the mono-nitro-toluol to mono-nitro-benzoic acid.

1,458,716. MANUFACTURE OF COAL OR LIKE BRIQUETTES. HENRY GARDINER LLOYD, Surbiton, England. Filed June 1, 1921. Serial No. 474,202. 13 Claims. (Cl. 44—19.)

13. The method of making briquettes, which consists in frothing a bituminous binder with heat and water and applying the same to the particles to be briquetted while the binder is in a frothing state.

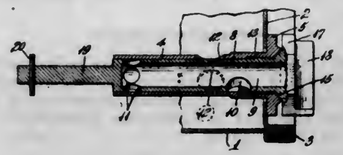
1,458,717. SHOE. ALEXANDER MICHEL LOCHWITZKY, Austin, Tex. Filed Feb. 28, 1920, Serial No. 361,965. Renewed May 8, 1923. 3 Claims. (Cl. 36—1.)



1. A foot covering consisting of a laminated structure comprising layers of fabric, each alternate layer being tightly drawn and the intermediate ones being loosely laid thereon so as to form when quilted together by cross ranges of stitches a series of adjacent air chambers.

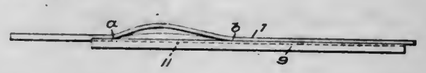
1,458,718. FAUCET. LAWRENCE S. LORD, Lakewood, Ohio. Filed Nov. 24, 1919. Serial No. 340,120. 3 Claims. (Cl. 251—8.)

3. A faucet for liquid containers, comprising a cylindrical shell adapted for connection to a container, said shell having a series of circumferentially spaced openings in its wall, a plug in said shell provided with an axial chamber having a discharge opening at one end and a series of circumferentially spaced openings near its other end, a sealing member on said plug, and a cooperating seat on said shell, the number of spaced open-



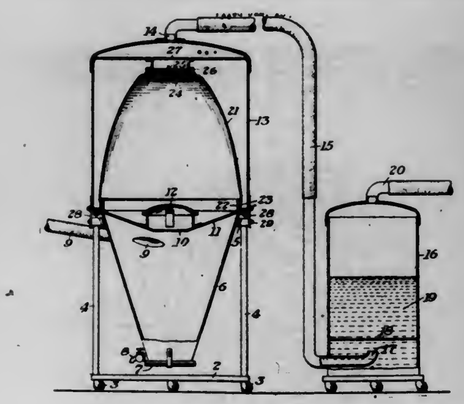
ings in said shell being less than the number of spaced openings in said plug and having a greater aggregate discharge capacity than the openings in said plug.

1,458,719. SHOE. GEORGE T. MCLEOD, Boston, Mass., assignor to Thomas G. Plant Company, Roxbury, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1920. Serial No. 404,314. 8 Claims. (Cl. 36—17.)



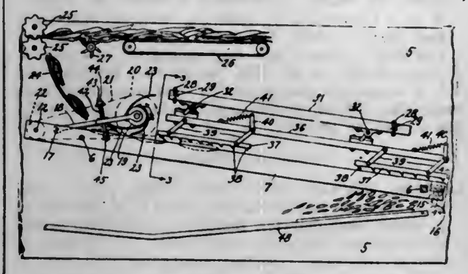
1. In a shoe an insole comprising an inner layer having a peripheral lip extending continuously around the forepart and shank thereof, an outer layer having a portion underlying the shank of said inner layer and secured marginally to said lip, an intermediate portion of the lip being severed from the body of the said inner layer at the inner side of the shank, an upper and an outsole, said upper and outsole being secured to said lip.

1,458,720. VACUUM-CLEANING APPARATUS. JAMES P. MALONE, Pittsburgh, Pa. Filed Jan. 25, 1922. Serial No. 531,610. 5 Claims. (Cl. 183—58.)



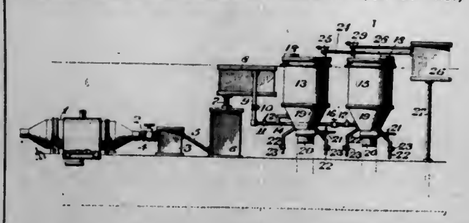
1. In a vacuum cleaning apparatus, a separating tank having a tangential inlet whereby entering air is given a whirling motion and a centrally located restricted outlet for said air, a baffle cooperating with said outlet, a flexible hood receiving the air from said outlet, means for causing said hood to deflate and inflate, and means independent of the hood structure for limiting movement of the free end thereof upon deflation and inflation and thereby imparting a cleaning jar to said hood both during deflation and inflation.

1,458,721. CORN-HUSKING MACHINE. HENRY L. NELSON, Cannon Falls, Minn. Filed Dec. 1, 1922. Serial No. 604,420. 6 Claims. (Cl. 130—5.)



1. In a corn husking machine and mounted in suitable frame work, a series of pairs of inclined rollers, means for delivering unhusked corn upon the upper ends of the rollers, a downwardly spring-pressed roller arranged transversely across the husking rollers near their upper portions and means for rotating the husking roller and said spring pressed roller and a series of resilient elements carried by the spring-pressed roller and peripherally arranged about it in line with each pair of the husking rollers.

1,458,722. APPARATUS FOR RENDERING. CHRISTOPHER OFFENHAUSER, Philadelphia, Pa. Filed June 4, 1920. Serial No. 386,622. 4 Claims. (Cl. 87—13.)



1. An apparatus for rendering, comprising a sulphur burner, a commingling device to which the gas is led from the sulphur burner and having means to spray water into the incoming gas, a collection tank for the gas solution, a digester, means to pump the gas solution from said tank into said digester, and means to introduce steam into said digester.

1,458,723. REFRACTORY COMPOSITION. JOHN L. OHMAN, deceased, late of Niagara Falls, N. Y., by Charles A. White, administrator, Buffalo, N. Y., assignor to Buffalo Refractory Corporation of Buffalo, N. Y., a Corporation of Delaware. Original application filed Nov. 1, 1917, Serial No. 199,792. Patent No. 1,356,939. Divided and this application filed Oct. 9, 1920. Serial No. 415,874. 11 Claims. (Cl. 106—9.)

1. A refractory composition for heat resisting articles, comprising crystalline alumina, and crystalline graphite.

1,458,724. REFRACTORY COMPOSITION. JOHN L. OHMAN, deceased, late of Niagara Falls, N. Y., by Charles A. White, administrator, Buffalo, N. Y., assignor to Buffalo Refractory Corporation, Buffalo, N. Y., a Corporation of Delaware. Original application filed Nov. 1, 1917, Serial No. 199,792. Patent No. 1,356,939. Divided and this application filed Oct. 9, 1920. Serial No. 415,875. 13 Claims. (Cl. 106—9.)

1. A refractory composition for heat resisting articles, comprising silicon carbide and crystalline alumina, and and crystalline graphite.

1,458,725. REFRACTORY COMPOSITION. JOHN L. OHMAN, deceased, late of Niagara Falls, N. Y., by Charles A. White, administrator, Buffalo, N. Y., assignor to Buffalo Refractory Corporation, Buffalo, N. Y., a Corporation of Delaware. Original application filed Nov. 1, 1917, Serial No. 199,792. Patent No. 1,356,939. Divided and this application filed Oct. 9, 1920. Serial No. 415,877. 13 Claims. (Cl. 106—9.)

1. A refractory composition for heat resisting articles, comprising crystalline alumina and fused silicon oxide, and crystalline graphite.

1,458,726. REFRACTORY COMPOSITION. JOHN L. OHMAN, deceased, late of Niagara Falls, N. Y., by Charles A. White, administrator, Buffalo, N. Y., assignor to Buffalo Refractory Corporation of Buffalo, N. Y., a Corporation of Delaware. Original application filed Nov. 1, 1917, Serial No. 199,792. Patent No. 1,356,939. Divided and this application filed Oct. 9, 1920. Serial No. 415,878. 13 Claims. (Cl. 106—9.)

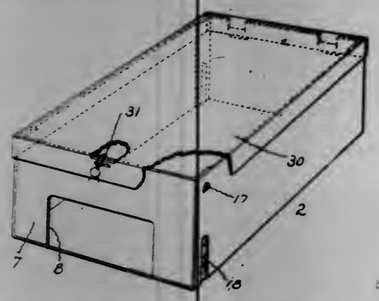
1. A refractory composition for heat resisting articles, comprising silicon carbide, crystalline alumina, and silicon oxide, and crystalline graphite.

1,458,727. COMBINED FENDER AND SPARE-TIRE HOLDER FOR VEHICLES. FREDDIE VERNETT ROSENBROOK, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,032. 1 Claim. (Cl. 280—152.)



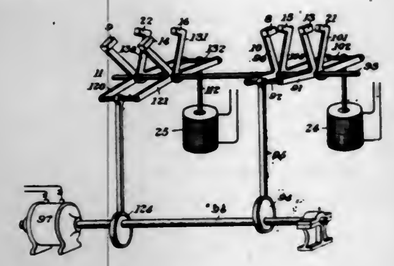
In a combined fender and spare tire holder for vehicles, a channeled body member forming a shield at one end, the opposite end of said body member being upturned, a head hinged to the upturned end of said body member and in one position being adapted to rest thereupon and to form, in effect, a continuation thereof, a strap carried by said body member, a strap carried by said head, and means for locking said head and body member together in their aligned positions.

1,458,728. ELECTRIC-APPLIANCE-RECEIVING AND METER-PROTECTING BOX OR CASING. JOSEPH SACHS, Hartford, Conn. Filed Apr. 2, 1918. Serial No. 226,254. 13 Claims. (Cl. 247—2.)



3. A meter installation comprising an appliance-receiving casing, a meter adjacent thereto, an adapter member and a cover for the casing, said casing and the adapted being mutually provided with interlocking means to latch said adapter member in place and said cover being organized to engage said interlocking means to obstruct opening movement of the same and thereby to prevent the removal of the adapter member when the cover is closed.

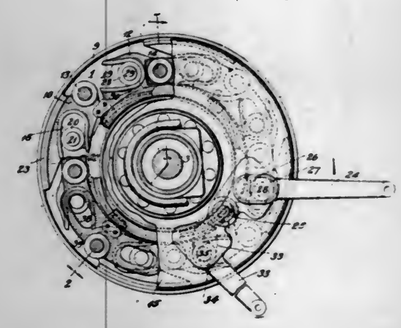
1,458,729. INTERRUPTER. BYRAMJI D. SAKLATWALLA and ARTHUR N. ANDERSON, Crafton, Pa., assignors, by mesne assignments, to Vanadium Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,284. 8 Claims. (Cl. 200—90.)



3. An interrupter for an electric circuit, comprising two contacts, means for continuously moving one contact so as to intermittently strike the second contact when in its path of movement, and means for moving the second contact into and out of the path of movement of the first contact, substantially as described.

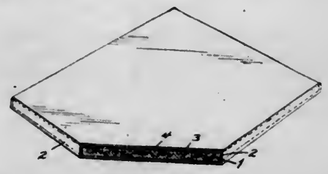
7. An interrupter for an electric circuit, comprising a contact, means for moving the contact back and forth, a second contact normally out of the path of movement of the first contact, yielding means for bringing the second contact into the path of back and forth movement of the first contact so as to be struck thereby, the second contact yielding when struck by the first contact, and means for adjusting the amount of yielding of the second contact, substantially as described.

1,458,730. AUTOMOBILE BRAKE. RICHARD SCHMITZ, Chicago, Ill. Filed Dec. 9, 1920. Serial No. 429,398. 4 Claims. (Cl. 188—79.)



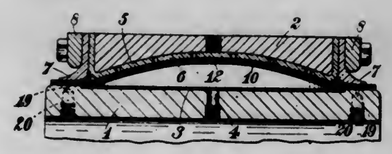
1. A brake comprising an inner and an outer brake drum, a series of friction shoes, means to move said shoes outwardly into engagement with the inner surface of the outer drum, a second series of shoes, means to move them inwardly into engagement with the periphery of the inner drum, and means to actuate either series of shoes.

1,458,731. TABLE PAD. HENRY SILVER, Herkimer, N. Y. Filed Oct. 1, 1921. Serial No. 504,658. 2 Claims. (Cl. 91—68.)



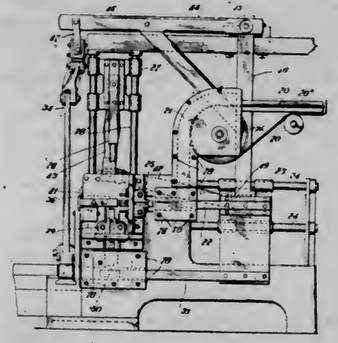
1. As an improved article of manufacture, a table mat or pad comprising a rigid body of fibrous material impregnated and coated on one side only with paraffin wax, the opposite side having thereon a coating of adhesive material.

1,458,732. METHOD OF AND APPARATUS FOR MANUFACTURING ARTICLES COMPRISING SUPERPOSED LAYERS OF FABRIC. THOMAS SLOPER, Devizes, England. Filed June 17, 1921. Serial No. 478,318. 24 Claims. (Cl. 154—14.)



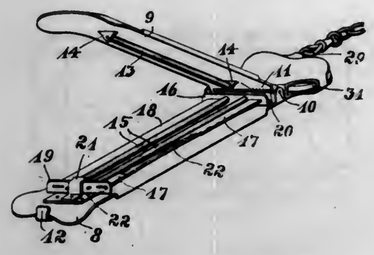
2. A method of manufacturing a compound fabric including superposed layers of rubbered fabric disposed in a flat condition, comprising the steps of mechanically contracting a layer of fabric, which after such contraction is still in flat condition, and superposing on such contracted flat layer and securing thereto at least one additional layer of uncontracted fabric.

1,458,733. METHOD OF AND APPARATUS FOR ELIMINATING SHARP EDGES AND CORNERS ON TOY BLOCKS. ANDREW SMITH, Chicago, Ill., assignor to Halsam Products Company, Chicago, Ill., a Corporation of Illinois. Filed June 14, 1920. Serial No. 388,842. 39 Claims. (Cl. 144—134.)



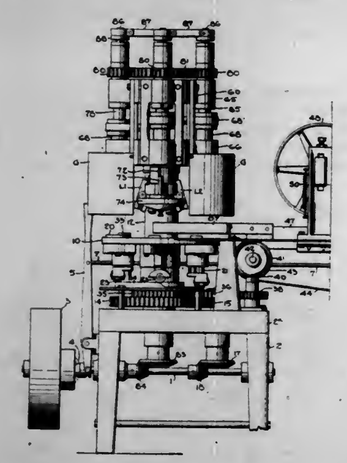
1. The method of eliminating sharp edges on a block which comprises passing the block successively through sets of rollers adapted to compress its edges with nonparallel faces of the block successively in the lead.

1,458,734. SAFETY BILL HOLDER. JOHN L. SMITH, Los Angeles, Calif. Filed Dec. 8, 1921. Serial No. 521,019. 4 Claims. (Cl. 150—38.)



1. In a device of the class described, cover plates having hinge connection at one end and having a lock at the opposite end, and rollers on the inner faces of the cover plates.

1,458,735. MULTIPLE-SPINDLE CRIMPER FOR CAPPING CONDENSED-MILK CANS AND THE LIKE. GEORGE H. STEWARD, Rutland, Vt. Filed Apr. 13, 1920. Serial No. 373,661. 15 Claims. (Cl. 113—24.)

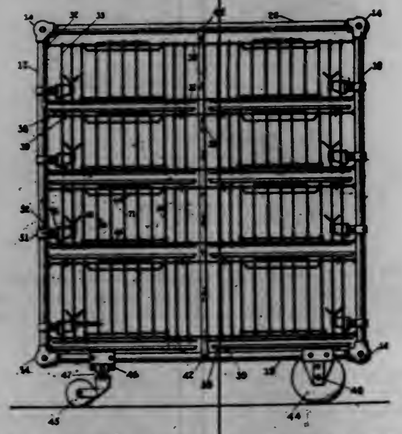


1. In a machine for crimping caps on outwardly flanged openings in can heads, a stem, means for holding said stem against rotation relative to the can, a disk on the end of the stem somewhat smaller than the recess in a cap, a rotating sleeve about said stem, and a plurality of crimper rolls mounted on said sleeve to move towards and away from said disk at such an angle that as they approach the disk they also move towards its outer end and vice versa, the crimper rolls being so related to the disk that the axes thereof if prolonged would at all times intersect the axis of the disk stem.

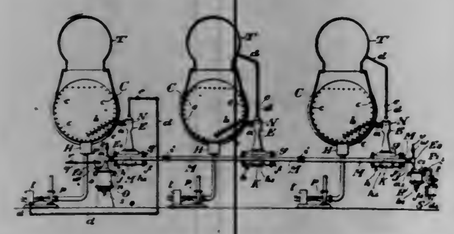
1,458,736. DEMOUNTABLE POULTRY-FEEDING BATTERY. WILLIAM J. STEWART, Clinton, Iowa. Filed Mar. 30, 1922. Serial No. 548,181. 5 Claims. (Cl. 119—17.)

1. In a poultry battery a plurality of corner uprights, means to detachably connect said uprights at their ends, channels on said connectors, end frames of wire mesh locked in said channels, means passing through the up-

rights to secure said end frames, a plurality of sections which form the sides, said sections comprising an upper and lower rod the ends of which enter openings formed in the uprights, nuts on said rods which abut said uprights, a central partition, two channeled uprights in which the sides of the central partition are held, upper and lower channels for said central partition secured to the side connections, bolts which hold said channels in place.

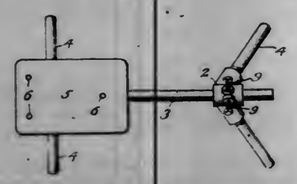


1,458,737. SYSTEM OF VACUUM PRODUCTION. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1922. Serial No. 544,815. 30 Claims. (Cl. 230—13.)



1. The combination with a plurality of condensers, of vacuum-producing apparatus therefor comprising ejector apparatus for augmenting the vacua in said condensers, and vacuum-producing means common to said condensers for further raising the pressure of the fluid discharged by said ejector apparatus.

1,458,738. DEMOUNTABLE WORKBENCH. EDWARD TEEKEN, Louisville, Ky. Filed Mar. 21, 1921. Serial No. 454,122. 7 Claims. (Cl. 81—44.)



1. A demountable work bench comprising front and rear fittings, legs detachably connected to each of said fittings, a bar connecting said fittings, a table top rigid with said front fitting adapted to support a vise, and work holding means carried by the said rear fitting.

1,458,739. MEANS FOR MOUNTING APPARATUS ON A HOISTING BOOM. CHARLES A. WEBER, Lorain, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Jan. 6, 1921. Serial No. 435,546. 7 Claims. (Cl. 212—144.)



1. In combination, a hoisting boom, angle iron side members for the hoisting boom, relatively yielding spacing means between the said angle iron side members, a boom separator member adjustably mounted between the said pair of side members, a bed-plate, apparatus mounted on the said bed-plate, means to secure the said bed-plate to the said side members and to the said boom separator, said means comprising a pair of bolts securing one end of the said bed-plate to the said side members, and a third bolt substantially equidistant from the said pair of bolts to secure the other end of the said bed-plate to the said separator.

1,458,740. CONNECTING DEVICE FOR FUSES AND BLASTING CARTRIDGES, ETC. FRANK WELLS, Kingston, England. Filed Mar. 10, 1922. Serial No. 542,725. 3 Claims. (Cl. 102—9.)



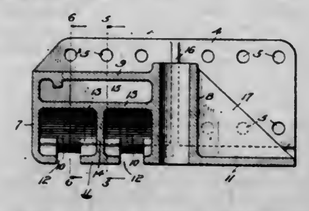
2. An appliance for connecting a fuse with a detonator attached thereto to a blasting cartridge or primer, comprising a tubular envelope closed at one end, said envelope being of elastic and waterproof material and of smaller diameter than the cartridge and adapted to be drawn over the said cartridge, a rim around the open end of the envelop, a tubular sleeve having corrugations formed therein and constructed of elastic and waterproof material, said sleeve being normally in the rolled up condition, but being adapted to be rolled over the cartridge and the tubular envelope, the corrugations preventing said sleeve from rolling up after it has been extended, a normally extended tubular portion attached to said tubular sleeve, said tubular portion being of smaller diameter than the tubular sleeve and also of smaller diameter than the fuse, the fuse with the detonator attached thereto being adapted to be passed through said tubular portion, and a rim at the end of the tubular sleeve.

1,458,741. JOURNAL BOX. DONALD S. BARROWS, Rochester, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed May 3, 1920. Serial No. 378,529. 8 Claims. (Cl. 64—23.)

1. The combination with a journal box, of a lid pivotally connected thereto, a locking member slidably mounted in a recess provided in the said lid, and means integral with said lid for operatively connecting the locking member thereto, said recess extending below the said locking member and being adapted to receive means for operating the said member.

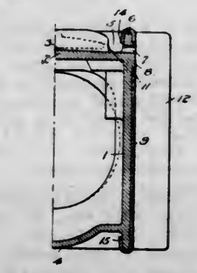


1,458,742. DRAFT-RIGGING BACKSTOP. DONALD S. BARROWS, Rochester, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1921. Serial No. 509,800. 9 Claims. (Cl. 213—59.)



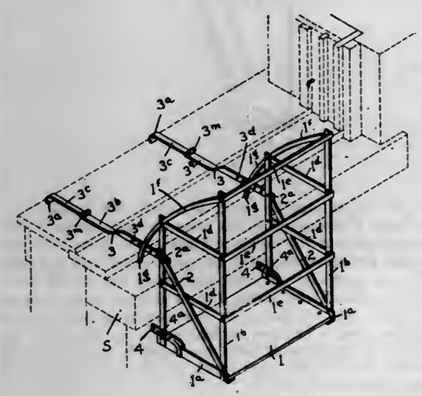
1. A draft rigging backstop comprising side walls adapted to be secured to spaced car sills, a forward end wall united to said side walls and adapted to form an abutment for a movable part of the draft rigging, a horizontally disposed web connecting the lower portions of said side walls, and downwardly divergent longitudinally extending webs uniting said end wall and said horizontally disposed web.

1,458,743. JOURNAL BOX. DONALD S. BARROWS, Rochester, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 21, 1922. Serial No. 583,212. 11 Claims. (Cl. 105—225.)



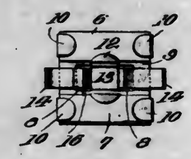
1. The combination with a railway car journal box having a pedestal guide way and oil reservoir, of a wear plate or liner for said guide way, and means including a perforated projection provided on the side wall of the journal box adapted to engage the liner, the perforation serving to conduct lubricating material from said reservoir to the wearing surface of said wear plate.

1,458,744. WINDOW-WASHER PLATFORM. JAMES C. BREWSTER, Fort Madison, Iowa. Filed Mar. 8, 1922. Serial No. 542,100. 7 Claims. (Cl. 304—24.)



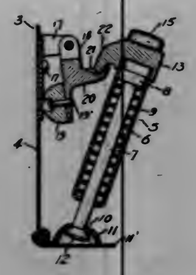
1. In a window washer apparatus comprising a frame having ends, outer side, and bottom portions, bars connected to the ends of the frame extending beyond the inner edges thereof, and curved to form hooks adapted to rest upon the top of the outer sill of the window; bars adjustably and pivotally connected to the inner sides of the frame adjacent the said hooks adapted to project through the window frame and having hooks on their inner ends adapted to engage the inner edge of the window frame sill; and bars adjustably connected to the lower inner corners of the frame adapted to engage the wall beneath the sill to prevent the frame rocking upon the outer edge of the sill and prying forward the hooks; whereby the apparatus is bodily hung on the sill, and is held in a safe and rigid position with the main points of contact and weight on the outer sill.

1,458,745. RAILWAY SIGNAL TORPEDO. FRANK W. BROWN, Wilkinsburg, and ARCHIE R. MARSHALL, Pittsburgh, Pa., assignors to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 4, 1922. Serial No. 541,180. 10 Claims. (Cl. 246—487.)



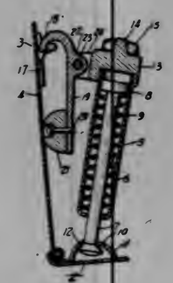
1. An improved railway signal torpedo, comprising a case having inwardly folded extending portions, an explosive within the case, a clip carried by the torpedo below the inwardly folded portions thereof, the clip having openings for the passage of a rail-engaging member, and the inwardly folded extended portions folded inwardly upon the clip and held in their folded positions thereby.

1,458,746. AUTOMOBILE HOOD FASTENER. JOHN F. CARPMILL, New Britain, Conn. Filed Oct. 5, 1922. Serial No. 592,555. 2 Claims. (Cl. 292—114.)



1. In an automobile hood fastener, the combination of a tube, a piston rod in the tube having a head in slidable engagement therewith and extending from the tube, a coiled spring surrounding the piston rod and engaging said head and also engaging the lower end of the tube, a part to which the piston rod is pivoted, a cap closing the upper end of the hood, and provided with lateral branches, and a bracket having means by which it can be held in engagement with the hood of an automobile and a soft pad pivoted to the bracket and adapted to engage said hood.

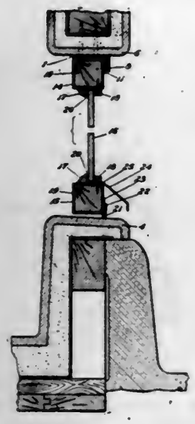
1,458,747. AUTOMOBILE HOOD FASTENER. JOHN F. CARPMILL, New Britain, Conn. Filed Oct. 5, 1922. Serial No. 592,556. 2 Claims. (Cl. 292—114.)



1. In a device of the class described, the combination of a hold-down member, a catch member to be attached to the side of an automobile hood, and a shank pivotally connected to the hold-down member, having a soft pad to engage the side of said hood.

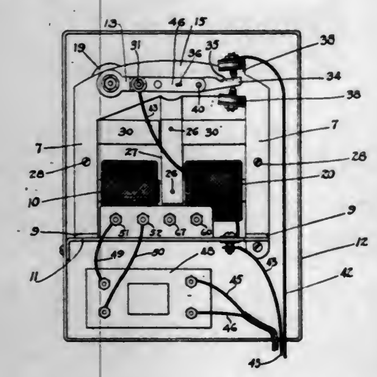
1,458,748. DOOR CONSTRUCTION. JOHN H. CRIST and LOUIS G. CRIST, Pittsburgh, Pa., assignors to Crist & Schilken Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 9, 1921. Serial No. 513,895. 2 Claims. (Cl. 20—11.)

1. In a water tight door construction, the combination with a rectangular framing providing a door opening, of a metallic frame member L-shaped in cross-section having a base secured against the opposite sides and top of the door opening framing and a flange projecting at right angles from said base, a resilient sealing member secured against said flange, an inner supplemental holding flange engaging said sealing member, and a swinging door connected by hinges secured to the oppo-



site edge portion of the base at one side of the opening adapted when closed to bear against the sealing members of the side and top frame members.

1,458,749. SWITCH MECHANISM. FREDERICK S. DENISON, Minneapolis, Minn., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 2, 1920. Serial No. 427,851. 11 Claims. (Cl. 175—375.)

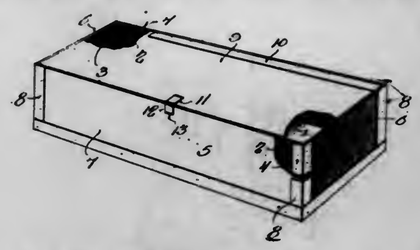


5. The combination of a feed line circuit, a primary circuit and secondary circuits, a motor and a primary switch in the primary circuit, a secondary switch in a secondary circuit and fixedly connected to said primary switch, means for operating said secondary switch, and means for controlling the operation of said secondary switch operating means.

1,458,750. PAPER-BOX CONSTRUCTION. CASPER FAUST, Oshkosh, Wis. Filed Sept. 16, 1921. Serial No. 501,053. 1 Claim. (Cl. 229—23.)

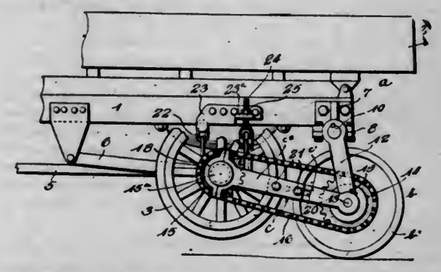
A paper box comprising an inner member having integral bottom end and side walls, means binding the adjacent vertical edges of said side and end walls, an outer shell having side and end walls surrounding and extend-

ing upwardly beyond the side and end walls of said inner member and secured thereto, and a flat cover adapted to rest upon the side and end walls of said inner mem-



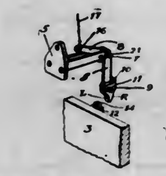
ber and within said outer member, said cover having a flexible hinge flap secured between the side walls of said inner member and said outer shell.

1,458,751. ROLLER ATTACHMENT FOR POWER-DRIVEN MACHINES. WILLIAM H. GAILOR, Saratoga Springs, N. Y. Filed Nov. 29, 1921. Serial No. 518,737. 3 Claims. (Cl. 180—20.)



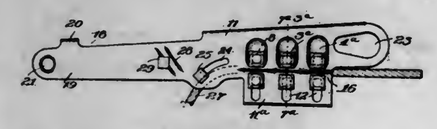
1. The combination with a motor vehicle having a chassis frame, a rear axle and traction wheels, of a roller at the rear of said wheels and having a shaft, links suitably connected to the chassis frame and to said shaft and adapted to support the frame, drawbars connecting said axle with said shaft, driving connections between said axle and shaft, and means for supporting said traction wheels from the chassis frame.

1,458,752. DOOR-OPERATING MECHANISM. ALPHEE J. GALLANT, Portland, Me. Filed Feb. 11, 1922. Serial No. 535,880. 1 Claim. (Cl. 74—5.)



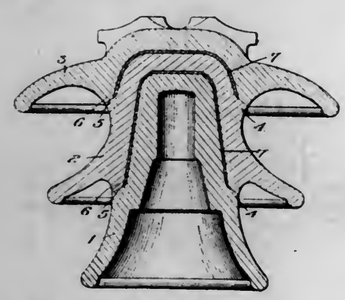
In a door operating mechanism, of the class described, the combination, with a door swingingly mounted in a door-casing, of a member rigidly secured to and mounted near the top of said door, a hole drilled in the top of said member, a pin seated in said hole, means for rigidly holding said pin in said hole in different vertical positions within said hole, a bifurcated bracket secured to the door casing adjacent the top of said door, and centrally positioned over and in alignment with said member on said door when the latter is in closed position within said door casing, a bell-crank lever pivoted within the bifurcations of said bracket, means for securing a cable or wire rod to the end of one of the arms of the said bell-crank lever, a projecting stop on the inner edge of said arm to bear on said bifurcated bracket and restrict the movement, in one direction, of said arm, a spring operating to yieldingly hold said stop against said bracket, a pawl pivotally hung to the end of the other arm of the said bell-crank lever, a spring adapted to hold the heel of said pawl yieldingly against the arm of said bell-crank lever and restrain the movement of said pawl, around its axis, in one direction and allow of certain movement in the opposite direction, substantially as described.

1,458,753. STRAIN CLAMP FOR ELECTRICAL CONDUCTORS. WALTER T. GODDARD, Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Dec. 8, 1917, Serial No. 206,207. Renewed Jan. 15, 1923. 9 Claims. (Cl. 24—135.)



8. A strain clamp for electrical conducting cables consisting of an integral blank bent upon itself affording opposite clamping walls in spaced relation to each other, the walls having outwardly flared portions forming a seat for a conductor, inwardly flared portions with bolt openings therein arranged on one side of said seat and forming seats for clamping devices, flat portions with bolt openings therein on the other side of the conductor seat forming seats for outermost clamping devices, and an extended curved edge portion on one of the walls having elongated bolt openings extending from a point adjacent to its outer edge to a point substantially opposite the inner extremities of the cooperating openings in the other wall.

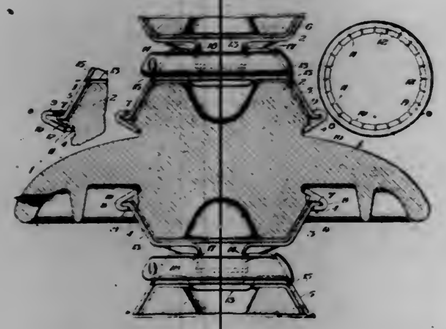
1,458,754. INSULATOR. WALTER T. GODDARD, Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Dec. 8, 1917. Serial No. 206,208. 6 Claims. (Cl. 173—318.)



6. A pin type insulator comprising a plurality of nested insulating sections each of which is provided with a hollow central portion having a threadless conical exterior surface, and each of which is also provided with an annular bearing shoulder inclining upwardly toward the center of the insulator, the said inclined shoulder on at least one of said sections projecting outwardly beyond the base of the said conical central portion of the section upon which it is formed and being adapted

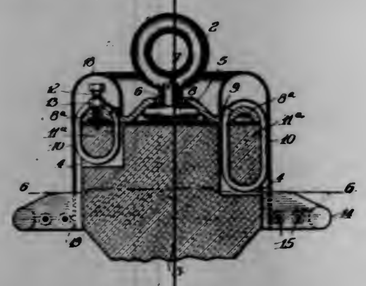
to cooperate with the said inclined bearing shoulder on the adjacent insulating section, the adjacent conical surfaces of said sections being spaced apart at all points above the surface of contact of said shoulders.

1,458,755. INSULATOR. WALTER T. GODDARD, Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Apr. 11, 1918. Serial No. 227,917. 5 Claims. (Cl. 173—318.)



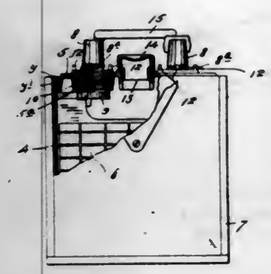
2. The combination with an insulator provided with a central attaching head or lug having an annular undercut shoulder, of a two-part strain member loosely connected to the attaching head, said strain member comprising a cup-shaped body portion having an outwardly directed peripheral flange and an attaching ring, said ring being adapted to embrace the flange of the cup-shaped body portion and being provided with a plurality of independently yielding fingers having supporting engagement with the annular shoulder of the said head.

1,458,756. STRAIN INSULATOR. WALTER T. GODDARD, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Oct. 25, 1919. Serial No. 333,157. 5 Claims. (Cl. 173—318.)



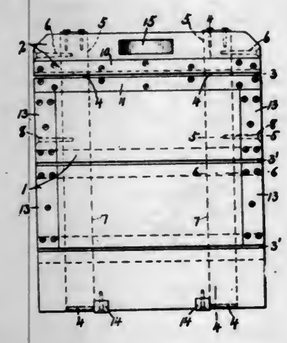
4. In a strain insulator, the combination with a frangible element of insulating material having apertures therein and a connected element, one of which is supported by the other through the medium of a continuous flexible member laced through the apertures in the frangible element, of a jack screw threaded into the connected element and bearing against the frangible element to exert a separating strain operating to stretch the flexible member and distribute its application of force among its bearing points.

1,458,757. PILLAR-POST STRUCTURE FOR BATTERIES. PAUL GOLDSBOROUGH, Minneapolis, Minn. Filed Mar. 19, 1921. Serial No. 453,549. 1 Claim. (Cl. 204—29.)



In a battery, the combination with a cover having a post-receiving pocket with an inwardly projecting annular flange at its lower extremity, of a pillar post extended through said pocket in close contact with the annular bottom flange thereof and provided with threads spaced from the walls of said pocket, a nut working on the threaded portion of said pillar post, said nut having an outstanding flange that engages the top of said cover and having a sleeve-like portion extended into said pocket and spaced from the walls thereof and terminating above the bottom of said pockets, and plastic sealing material filling the space between said pocket and the sleeve portion of said nut and directly engaging with threads of said pillar post.

1,458,758. BALING-PRESS FOLLOWER BLOCK. LEO M. GRAY and MILTON H. TERPENING, Fulton, N. Y. Filed Apr. 23, 1921. Serial No. 464,014. 17 Claims. (Cl. 100—24.)



1. A dividing block for baling presses, said block being composed of separable sections arranged edgewise one above the other with a wire-receiving-space between the adjacent edges, and a break-strip fastened to one of the sections and extending across the wire-receiving-space and slidably engaging the other section for normally holding the other section in the same plane.

1,458,759. WHEEL. ADAM GRIESEMER, St. Louis, Mo., assignor to Simplex Steel Stamping & Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 19, 1920. Serial No. 375,081. 2 Claims. (Cl. 301—63.)



2. In combination with an axle having an annular peripheral groove, a wheel rotatably mounted on said axle, and means to prevent lateral displacement of said wheel on said axle, said means comprising a ring split transversely and made of a single piece of material seated in said groove and extending substantially around the axle, so as to retain itself in said groove, the outer margin of said ring being extended from said groove to form an abutment for the wheel.

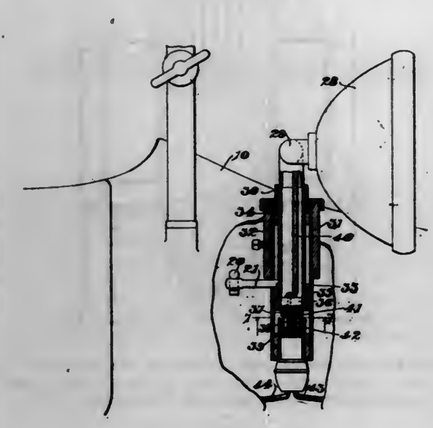
1,458,760. SASH FASTENER. ELLSWORTH E. HAINLINE and EVERETT C. CULP, Kansas City, Kans. Filed Jan. 22, 1921. Serial No. 439,100. 1 Claim. (Cl. 292—44.)



In a sash fastener, a supporting member adapted to be attached to the upper side of the upper rail of a sash and having two horizontal parallel holes spaced apart from each other at equal distances from the bottom of the supporting member, a pivot pin adapted to be inserted in either of said holes, and a sharpened wedge arranged to be mounted on said pin, and adapted to penetrate and lockingly engage a frame in which the sash is mounted, the wedge being adapted to be swung on the pin so as to bear upon the upper side of the supporting member, substantially as set forth.

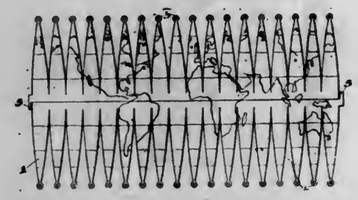
1,458,761. DIRIGIBLE HEADLIGHT. VICTOR A. HANCOCK, Oakland, Calif. Filed Aug. 31, 1921. Serial No. 497,235. 6 Claims. (Cl. 240—62.)

1. In combination with the steering mechanism of an automobile, a pair of headlights mounted upon vertical axes, an arm extending from the vertical spindle of each of said lights, a connecting rod secured to the ends of said arms, spring means for normally holding said rod and arms in an intermediate position, an operating arm



secured to the rod, and a cam operated by the steering mechanism and engaging said arm whereby rotation of the cam in opposite directions will produce alternate shifting movement of the connecting rod and swinging movement of the spindle arms.

1,458,762. GLOBE MAP. FREDERICK D. HARTMAN, Toronto, Ontario, Canada, assignor to The Geoplanus Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed July 15, 1922. Serial No. 575,385. 3 Claims. (Cl. 35—5.)

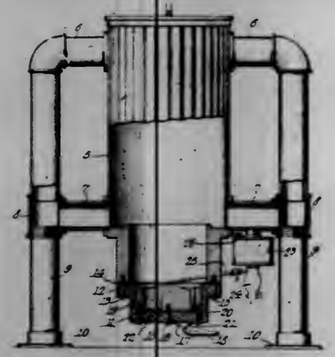


1. A map formed of a flat sheet cut to form a plurality of lunes integrally connected at the equatorial belt of the map, the ends of the lunes being provided with apertured tabs for the passage of an axis, the said lunes being sufficient in number to give the equatorial belt a substantially circular form when its ends are joined, and the sides of the lunes being shaped to contact on meridian lines, which are substantially circular.

1,458,763. ELECTRIC RADIATOR. CECIL A. HEAD, Royal Oak, Mich. Filed June 26, 1922. Serial No. 570,797. 3 Claims. (Cl. 219—41.)

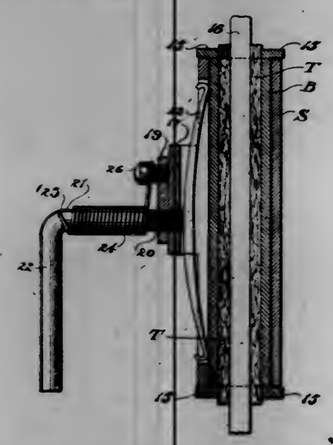
1. An electric heater comprising a nonconducting receptacle, a centrally arranged electrode mounted therein, an annular electrode also mounted in the receptacle and spaced from the central electrode, and two electrodes

being adapted to be electrically connected by a body of liquid contained in the receptacle, the receptacle being



provided with spaced gutters between the electrodes to provide a continuous cup of water in the receptacle after the main body of water has been evaporated.

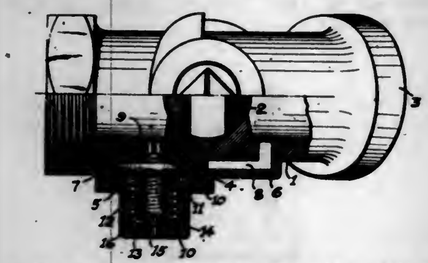
1,458,764. FRICTION CLAMP FOR TAMPING BARS. NELS A. JOHNSON, Van Nuys, Calif. Filed Jan. 21, 1922. Serial No. 530,796. 6 Claims. (Cl. 25—37.)



1. A clamp for tamping bars comprising a sleeve, friction strips sustained within the sleeve and adapted to receive therebetween the shank of a tamping bar, a spring for urging said strips to yieldingly retain the shank of the tamping bar between the strips, means constantly acting to urge said spring inwardly of the sleeve comprising a shaft contacting with the spring, and a second spring constantly acting to rotate the shaft so as to feed the shaft inwardly against the first spring.

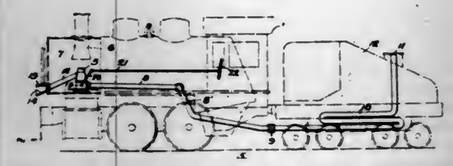
1,458,765. BY-PASS VALVE FOR ANGLE COCKS. JOHN P. KELLY, Pittsfield, Mass. Filed Jan. 15, 1921. Serial No. 437,416. 7 Claims. (Cl. 303—86.)

1. A by-pass valve device for angle cocks, comprising a brake pipe cock, a passage around said cock, for establishing communication from one side of the cock to the other, a valve for controlling said passage, a piston attached to said valve and exposed on one side to the brake pipe pressure at the hose side of the cock, a fluid pressure chamber at the opposite side of the piston, means for sealing said chamber when the piston moves



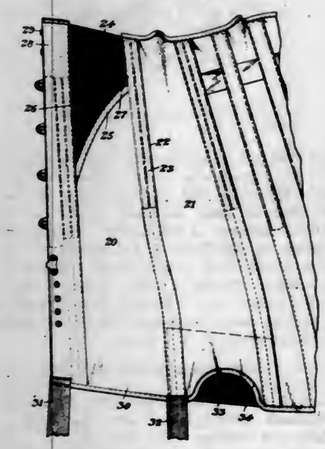
to the open position, and a spring acting to close said valve.

1,458,766. DRAFT DEVICE FOR LOCOMOTIVES. RALPH REUBEN KOHN, Philadelphia, Pa. Filed June 15, 1920. Serial No. 389,117. 5 Claims. (Cl. 110—147.)



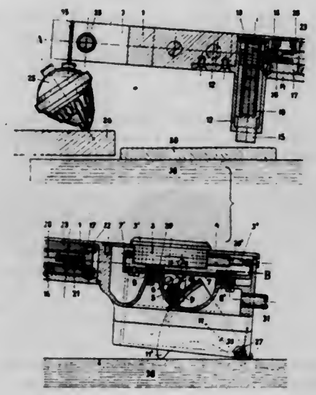
1. In a locomotive draft mechanism, the combination of a locomotive smoke pipe, a stack leading therefrom, a petticoat pipe connected with the stack, a blast pipe beneath the petticoat pipe, a vane pivoted in the blast pipe and adapted to receive the blast upon its under side, means for diverting the blast from the blast pipe laterally without passing it through the petticoat pipe, and an air blast connection leading into the blast pipe from the front of the engine and for which the vane forms a baffle to divert the air blast up the stack.

1,458,767. APPAREL CORSET. DANIEL KOPS, New York, N. Y., assignor to Kops Brothers, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 15, 1922. Serial No. 536,648. 3 Claims. (Cl. 2—73.)



3. In an apparel corset and in each front portion thereof, a front steel section, a front steel therein, the front steel section having an extension above the end of the front steel, a front section comprising two relatively wide members extending lengthwise of the garment, and a V-shaped gore of elastic fabric material formed in the upper part of the member of the front section adjacent the front steel section attached thereto and to the front steel section in the upper extension thereof and also to the rear member of the said front section whereby the underlying parts of the body of the wearer are permitted to assume a natural position and are more or less supported therein.

1,458,768. APPARATUS FOR CUTTING DIAMONDS. EMILE FERDINAND ADELIN CHARLES LEPERRE, Antwerp, Belgium. Filed Jan. 8, 1921. Serial No. 436,008. 5 Claims. (Cl. 51—229.)



1. Apparatus for supporting precious stones for grinding in a grinding machine and for automatically lifting the carrier for the precious stone on the required extent of grinding having been effected, comprising a bar adapted to be freely supported at one end and at the other to support the said carrier in position over the grind-stone, mechanism mounted upon the said bar and operable on the variation of its inclination as the grinding of the precious stone proceeds, and means for lifting the end of the said bar supporting the said carrier on a determined inclination being reached, substantially as described.

1,458,769. TIE BRACE FOR CONCRETE FORMS. RAY A. MCHALE, Syracuse, N. Y., assignor to Lois T. McHale, Syracuse, N. Y. Filed Feb. 4, 1921. Serial No. 442,421. 4 Claims. (Cl. 25—131.)



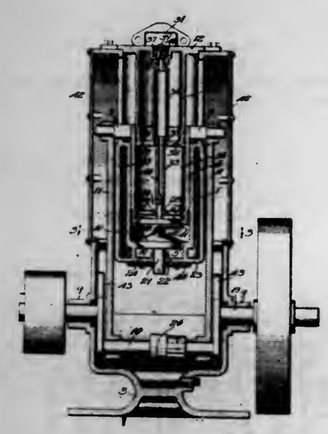
1. In a tie brace for concrete forms the combination of a pair of blocks, a tie rod connecting the blocks, each block being formed with an internal cavity and with a radial slot in its end wall, the slot opening into the cavity, and tension rods arranged substantially in alinement with the tie rod, each tension rod having a hook at its inner end arranged to pass through the slot into the cavity and interlock with the end wall thereof upon successive endwise and partial rotary movements of the tension rod, substantially as and for the purpose described.

1,458,770. ROOF CONSTRUCTION. HERBERT E. MARKS, Sewickley, Pa. Filed Mar. 9, 1922. Serial No. 542,278. 6 Claims. (Cl. 108—6.)



1. A roof of the character described comprising a frame, a series of plaster-board supporting members carried by said frame, a layer of plaster boards having their oppositely disposed sides supported by said members, additional plaster boards overlapping and strengthening the contiguous ends of said layer of plaster boards, and a cementitious body moulded on the plaster boards and bonded therewith and thereby forming a continuous monolithic roof slab including the plaster boards.

1,458,771. INTERNAL-COMBUSTION ENGINE. WILLIAM F. PAGEL, Sycamore, Ill. Filed Oct. 17, 1919. Serial No. 331,415. 11 Claims. (Cl. 123—65.)



1. The method of burning fuel gases for the production of pressure which consists in filling a receiving space with the fuel gases the gases entering at the top of said space, slightly heating the gases in said space, removing the gases from the lower end of said space by suction and entering them into a second space at the upper end thereof, slightly compressing the gases within said second space and discharging them from the lower end of said second space into the upper end of a combustion space, compressing the gases in the combustion space by the downward movement of a compression element and causing the compressed gases to be ignited.

1,458,772. COMPOSITION FOR FACILITATING THE FITTING OF BEARINGS. CHARLES PATRICK MERRY, New Orleans, La. Filed June 3, 1922. Serial No. 565,750. 6 Claims. (Cl. 51—280.)

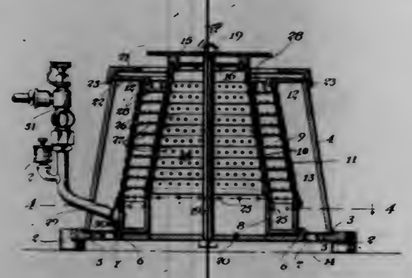
1. A composition for facilitating the fitting of bearings comprising a mixture of a mineral abrasive, white lead, zinc and boracic acid.

1,458,773. COTTON-PICKER'S SACK. ADOLPH E. MEYER, Webster Groves, Mo., assignor to Textile Products Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 1, 1919. Serial No. 341,762. 6 Claims. (Cl. 150—2.)



1. A cotton picker's sack comprising a body portion having two main walls, and a top extension wall member permanently secured at its ends to said body portion adjacent the side edges of the latter, said top extension wall member being attachable to and detachable from the upper ends of both of said main walls.

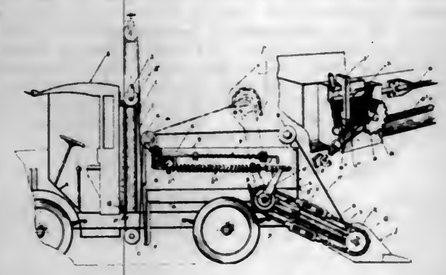
1,458,774. WICKLESS OIL BURNER. WILLIAM MEYERS, Lima, Ohio, assignor of one-half to Charles L. Ackerman, Lima, Ohio. Filed Sept. 1, 1922. Serial No. 585,733. 8 Claims. (Cl. 158—87.)



1. An apparatus of the character described including a burner base plate, a burner shell rectangular in cross-section mounted on the base plate, a combustion chamber spaced inwardly from the burner shell, said combustion chamber formed of two spaced walls rectangular in cross-section, an air chamber on each side of the combustion chamber, the walls of the combustion chamber provided with small holes to permit passage of air from the outer and inner air chamber to the combustion chamber.

1,458,775. LOADING ATTACHMENT FOR TRUCKS. HAROLD G. NILSON, Detroit, Mich. Filed Dec. 19, 1921. Serial No. 523,265. 8 Claims. (Cl. 214—78.)

1. A loading device for vehicles comprising a scoop, swinging arms attached to the vehicle body upon which said scoop is mounted, means for lifting said arms to swing the scoop over the body, means for preventing the



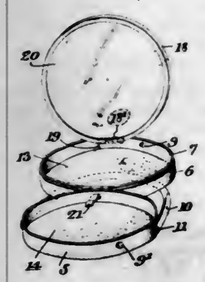
scoop from turning during the swinging movement, and releasing means for permitting the turning of the scoop to dump the load when above the body.

1,458,776. BALL AND PROCESS FOR MAKING SAME. HARRY NYE, Akron, Ohio. Filed Jan. 12, 1922. Serial No. 528,610. 6 Claims. (Cl. 154—16.)



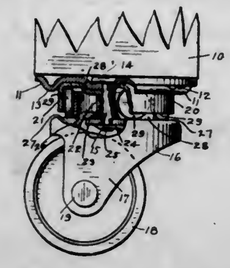
3. A process of making a ball which comprises preparing a pulp-like mass composed of rubber and fabric, subjecting a quantity of said mass to a partial cure in a mold to form a ball, applying a two-part cover of a fabric containing rubber to the ball, and subjecting it to a final cure in a mold to vulcanize the cover to the body of the ball.

1,458,777. TOILET CASE. ALBERT T. REID, Leavenworth, Kans. Filed Feb. 16, 1923. Serial No. 619,469. 7 Claims. (Cl. 132—83.)



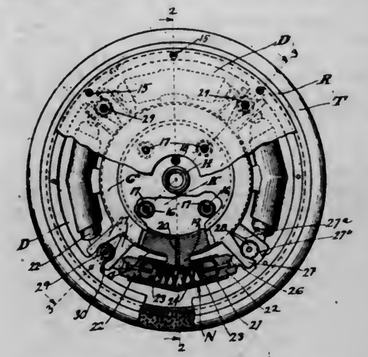
1. In a toilet case, a casing section adapted for the reception of a rouge compact, a second casing section adapted for the reception of a powder compact and hinged to the first named casing section, one casing section being adapted to be folded into close relation to the other casing section for providing a closed case, a mirror adapted to be arranged within the closed case between the said compacts and a spring actuated hinge pivotally connecting the mirror with one casing section at a point spaced from the hinged connection between said casing sections, said spring actuated hinge serving to automatically shift the mirror to an open position when released, said mirror when in the open position being so located with respect to the opened casing sections that the same face of the mirror is adapted for use with both casing sections.

1,458,778. ROLLER-BEARING CASTER. FRANK L. ROWNTREE, Meriden, Conn., assignor to Foster, Merriam & Company, Meriden, Conn., a Corporation of Connecticut. Filed July 14, 1921. Serial No. 484,573. 3 Claims. (Cl. 16—22.)



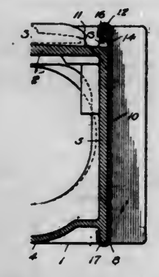
1. A caster comprising an inverted cup having a roller raceway, rollers mounted in said raceway, a ring loosely mounted inwardly of the side walls of the cup and forming therewith opposed guides for the rollers, an axle within the cup, and a wheel carrying horn mounted to turn on the axle and having a raceway for the rollers, said ring being adapted to yield laterally independently of both the horn and cup under lateral pressure from the rollers.

1,458,779. WHEEL FOR MOTOR VEHICLES. JOSEPH B. RUATTI, Los Angeles, Calif. Filed Feb. 3, 1922. Serial No. 533,869. 6 Claims. (Cl. 152—38.)



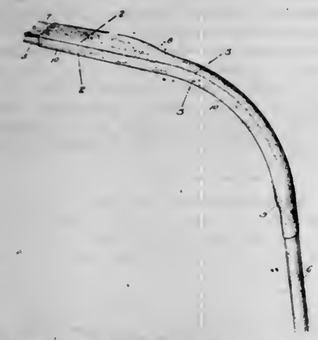
5. A resilient wheel comprising a hub, a rim, a hollow casing formed on the hub, discs carried by the rim and slidably associated with the casing, a series of piston and cylinder units sustained on the casing and interposed between the latter and said rim and between said discs, each of said units including a pair of opposed cylinders having communication with the interior of said casing, pistons within the cylinders, and springs between each pair of pistons, a pair of rings rotatably associated with the casing, cam arms formed at intervals on each of the rings and in such manner that one cam arm of one ring is disposed adjacent one cam arm of the other ring, means for operatively connecting said arms with said pistons, and rollers carried by the rim and interposed between said arms for effecting actuation of said pistons inwardly of the cylinders when said rim is moved radially.

1,458,780. JOURNAL BOX. AUGUST G. SANDMAN, Baltimore, Md. Filed Aug. 2, 1922. Serial No. 579,263. 30 Claims. (Cl. 105—225.)



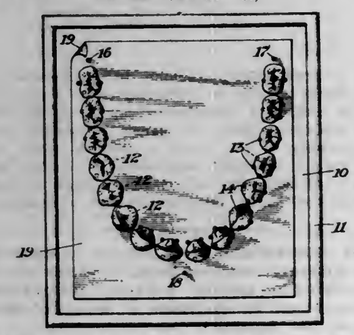
1. The combination with a railway car journal box having a pedestal guide way the side walls of which are outwardly flared, and a wear plate or liner adapted to engage said tapered guide way.

1,458,781. BOW AND BOW COVER FOR VEHICLE TOPS. ROBERT C. SCHEMMEL, Union City, Ind., assignor to The Backstay Machine & Leather Company, Union City, Ind., a Corporation of Indiana. Filed Nov. 25, 1922. Serial No. 603,379. 6 Claims. (Cl. 296—118.)



1. A bow cover for vehicle tops comprising a tubular bow-enclosing envelope made of elastic textile fabric adapted to automatically conform to the varying transverse dimensions of the bow covered.

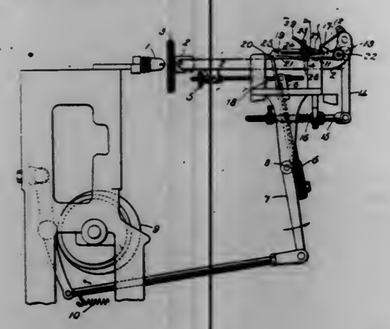
1,458,782. DENTAL APPARATUS. HARRY H. SHAPIRO, New York, N. Y. Filed Mar. 1, 1922. Serial No. 540,327. 10 Claims. (Cl. 35—6.)



1. A dental apparatus comprising a plate having a series of holes arranged in an occlusal arch curve there-

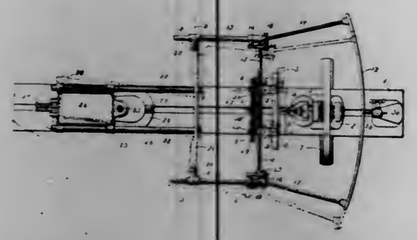
in, a chart, and a set of artificial crowns adapted to be arranged in various positions in the plate with the chart intervening between the same and the plate.

1,458,783. BRUSH-MAKING MACHINE. ARTHUR HAMMOND SHIPLEY, Leicester, England. Filed Sept. 10, 1920. Serial No. 409,472. 2 Claims. (Cl. 300—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a brush-making machine, in combination, a slidable rest, means to automatically lock said rest in the operative position, a lever to control said locking means, mechanical means to operate said lever to effect locking and unlocking said rest, and a manually operable cam-lever pivotally mounted in the controlling lever adapted upon being turned in one direction to move the controlling lever so that it renders the locking means inoperative and, upon being turned in the opposite direction, to move said lever so that it makes said locking means operative.

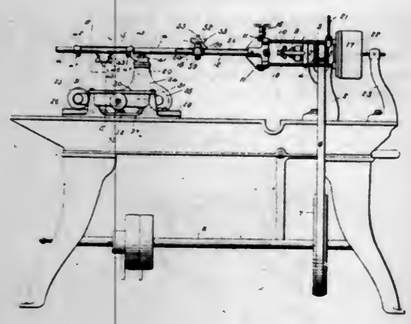
1,458,784. BRUSH-MAKING MACHINE. ARTHUR HAMMOND SHIPLEY, Leicester, England. Filed Sept. 10, 1920. Serial No. 409,473. 8 Claims. (Cl. 144—96.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a brush-making machine, in combination, supporting means capable of oscillation about a supporting centre or centres, a work-holder capable of movement on said supporting means to change the position of the work relatively to the centre or centres about which said means are oscillated transversely to a radius but in the plane of oscillation and means adapted to rapidly move said work-holder from one position to another.

1,458,785. BRUSH-MAKING MACHINE. ARTHUR HAMMOND SHIPLEY, Leicester, England. Filed Sept. 10, 1920. Serial No. 409,474. 5 Claims. (Cl. 144—196.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a brush-making machine, in combination, a drill, a work carrying frame, a pivot upon which said work carrying frame turns, a carriage on which said pivot is mounted, a track along which said carriage travels to and fro in line with the drill, means to hold said car-



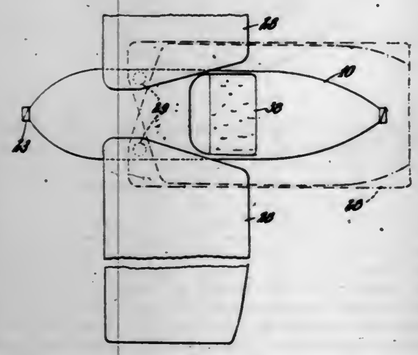
riage down on the track, a plate supporting said track, and a bed, said plate being movable to different positions on the bed for the purpose described.

1,458,786. SEMIELLIPTICAL SPRING. GIULIO TERZAGHI, Turin, Italy. Filed Jan. 5, 1922. Serial No. 527,252. 2 Claims. (Cl. 267—28.)



1. A semi-elliptical spring, comprising a main spring adapted to directly support the load, an auxiliary spring having a greater radius of curvature than the main spring and rigidly connected at its center to the center of the main spring, and means to resiliently connect the free ends of the auxiliary spring to the main spring.

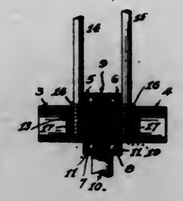
1,458,787. COMBINED AUTOMOBILE AND AEROPLANE. DAN WALDEN, Scalp Level, Pa. Filed Feb. 6, 1922. Serial No. 534,312. 5 Claims. (Cl. 244—12.)



1. A machine of the class described comprising a body, a pair of wings pivoted to said body and extending

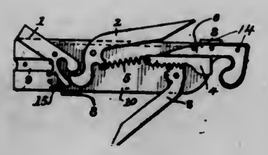
oppositely therefrom and adapted to be folded backward thereover, and spiral guiding elements engaged with said wings whereby one is lowered bodily and the other raised bodily as they are folded backward.

1,458,788. JOINT FOR ARTIFICIAL LIMBS. WILLIAM H. WAMBSGANS, Peoria, Ill. Filed June 27, 1921. Serial No. 480,566. 2 Claims. (Cl. 3—6.)



1. In an ankle joint, the combination with the ankle and foot members of an artificial limb, of a pair of tubular members disposed in axial alignment and lying transversely of and between the said members, said tubular members having spaced relation, a solid main body portion enclosed by the tubular members, a pair of stems depending from the said ankle member, each passing through one of the said tubular members and both extending into the main body portion perpendicular to the axes of those parts, said stems permanently spacing apart the said tubular members, and a stem arising from the foot member, the same enclosing the main body portion and adapted to turn upon it and having a working position between the facing ends of the said spaced tubular members.

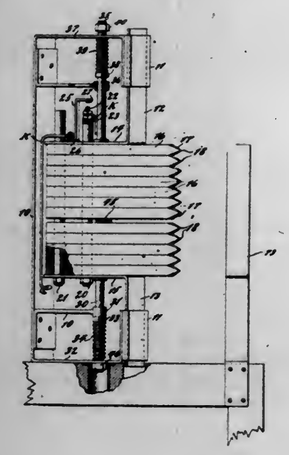
1,458,789. MINER'S KNIFE. JOSEPH PHILIP WIDAS and FRANK STEPHEN WIDAS, Caspian, Mich. Filed Sept. 16, 1922. Serial No. 588,710. 4 Claims. (Cl. 86—22.)



3. A device of the character described, comprising a main handle, a sliding knife formed with a rack, a lever having a pinion working in the rack, a knife pivoted in the handle, a lever to operate the same, means to hold the knives normally out of operation, a hole to receive a fuse to be slit, and a guide for the sliding knife.

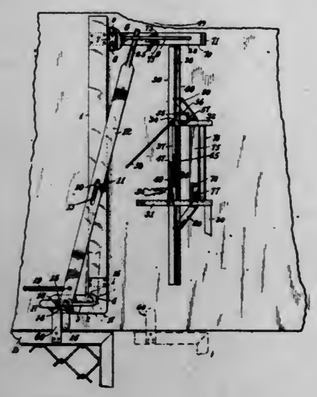
1,458,790. SAFETY APPARATUS FOR ELEVATORS. POWHATAN J. WOOLDRIDGE, Pewee Valley, Ky. Filed May 10, 1919, Serial No. 296,259. Renewed Nov. 1, 1922. Serial No. 598,437. 12 Claims. (Cl. 187—31.)

1. The combination with an elevator shaft, a shaft door, a car, and electrical car controlling means including a circuit, the interruption of which is effective to stop the car, of a breaker for said circuit, and means actuated by the door when the car is near the corresponding landing to positively engage and actuate the breaker regardless of



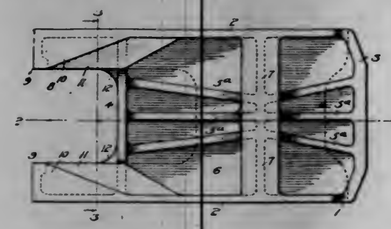
slight movement of the car adjacent to the landing and to remain in positive engagement with the breaker and to maintain said circuit open until the door is closed.

1,458,791. SAFETY APPARATUS FOR ELEVATORS. POWHATAN J. WOOLDRIDGE, Pewee Valley, Ky. Filed June 13, 1919, Serial No. 303,890. Renewed Nov. 1, 1922. Serial No. 598,438. 16 Claims. (Cl. 187—31.)



1. In safety mechanism for elevators, the combination with an elevator shaft, a shaft door, a car movable in the shaft and a control circuit including a circuit breaker, of a vertical, movable rail carried by the car and connected with the circuit breaker, a horizontally swinging arm located on the shaft wall and adapted to cooperate with the rail when the car is near the landing, an approximately vertical lever connected with the arm, and cooperative means carried by the lever and the shaft door to move the arm and operate the rail and circuit breaker when the door is opened with a part of the rail opposite the arm.

1,458,792. DRAFT RIGGING. IRA ORVILLE WRIGHT, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1921. Serial No. 525,981. 4 Claims. (Cl. 213—57.)



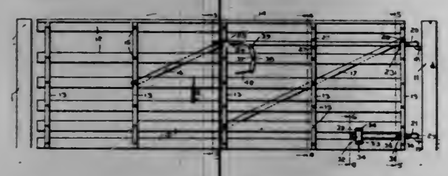
1. A reversible backstop having opposite face formations adapted for use with different kinds of draft rigging.

1,458,793. BRAKE-ROD TAKE-UP. PHILIP C. AGEE, Pomeroy, Wash. Filed Jan. 11, 1922. Serial No. 528,425. 3 Claims. (Cl. 188—196.)



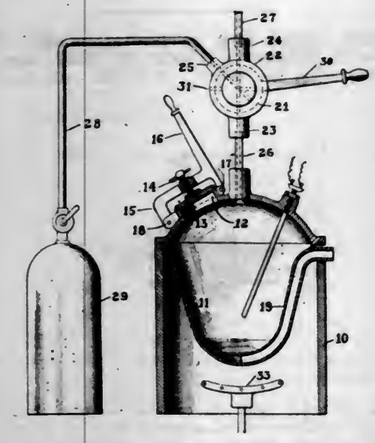
3. In combination, a connecting rod, a lever pivoted thereto, a toothed bar loose upon the connecting rod and in cooperative relation with said lever to hold the same in the required adjusted position, a spring connection between the toothed bar and lever, a second spring connection between the toothed bar and connecting rod, and means extending from said lever to a convenient point of operation whereby the said lever may be adjusted from a distant point.

1,458,794. ADJUSTABLE GATE. EDWARD E. ANSON, Clarksville, Ohio. Filed Oct. 27, 1920. Serial No. 419,883. 1 Claim. (Cl. 39—82.)



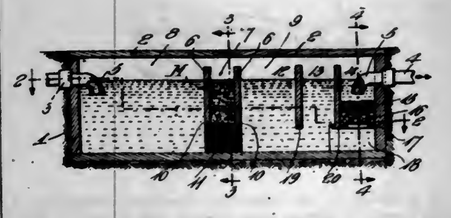
A gate including longitudinal and vertical bars, means securing said vertical bars to said longitudinal bars and to each other, a hinge bar connected with the upper edge of said gate, a hinge bar at the lower edge of said gate having openings therein and extending between a pair of said vertical bars, a plate connecting said pair of vertical bars and engaging said hinge bar, a block connecting a pair of said longitudinal bars, said block having an opening therethrough through which said second named hinge bar extends, and a pin selectively engageable in the openings in said second named hinge bar and engageable with the rear pair of vertical bars to resist thrusts of the gate toward the gate support and to compensate for changes in adjustment of the gate.

1,458,795. DIE-CASTING MACHINE. JAMES BATE, Ypsilanti, Mich. Filed Feb. 13, 1922. Serial No. 536,207. 1 Claim. (Cl. 22—60.)



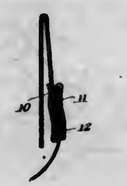
A die casting machine comprising a hollow casing, a receptacle having an inlet opening therein mounted in the casing, a lid pivotally mounted on said opening, an operating lever on said lid, a tube vertically mounted thru the wall of the receptacle adapted to alternately supply compressed air and gas thereto, a three way valve supported by the tube and connected therewith to control the supply of air and gas to the receptacle, and a discharge duct leading from the receptacle to a mold, said duct being formed on the interior walls of the receptacle and conforming to the curvature of the sides thereof from the bottom to a point near the top.

1,458,796. SEPTIC TANK. CARL W. BAUMGARDNER, Tiffin, Ohio. Filed Apr. 14, 1922. Serial No. 552,703. 2 Claims. (Cl. 210—5.)



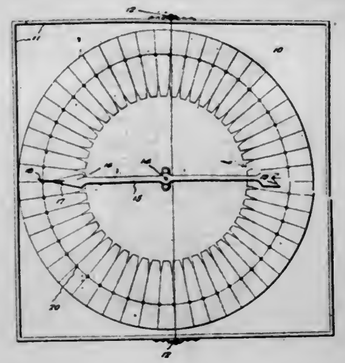
1. A septic tank provided intermediate its ends with a pair of transverse partitions in close spaced parallelism to provide a pocket adapted to receive bacteria breeding material, the lower portions of said partitions extending to and contacting with the bottom of the tank and being formed in their lower ends with oppositely disposed relatively small notches forming a passage from one compartment to another, and an arched wire mesh guard extending transversely through said notches to span the space between the partitions to hold the breeding material in the pocket and permitting the liquid to rise between the partitions to thoroughly saturate the breeding material.

1,458,797. COLLAR-RETAINING DEVICE. CHARLES MARTIN BEALE, Minneapolis, Minn. Filed July 14, 1922. Serial No. 574,948. 1 Claim. (Cl. 24—101.)



A fastener, comprising a central portion, and resilient jaws reversely arranged, and extending on opposite sides of the central portion the jaws and central portion being each deflected in the form of a compound curve, the end of one jaw being turned outwardly and the end of the other jaw being turned inwardly.

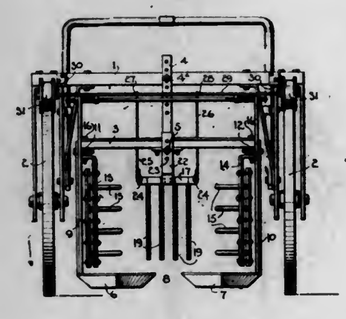
1,458,798. GAME. FRED BETHKE and EVELYN HICKE, Visalia, Calif. Filed Sept. 19, 1921. Serial No. 501,541. 2 Claims. (Cl. 46—56.)



1. A game of the character described comprising a game board, a post rising centrally therefrom, an arrow rotatable upon said post and including a pointed head and a tail provided with spaced horns, a plurality of upstanding pins on said board arranged in circular series concentric to the path of travel of the arrow, a plurality of legends arranged upon the game board inwardly of and opposite the spaces between the successive pins, in combination with a deck of playing cards adapted to be laid in fortuitous arrangement upon the board outwardly of and opposite the spaces between the successive pins, the spaced horns of the tail of the arrow pointing always to two successive cards, certain of the combinations of successive cards pointed to by said horns giving advantages and others entailing penalties.

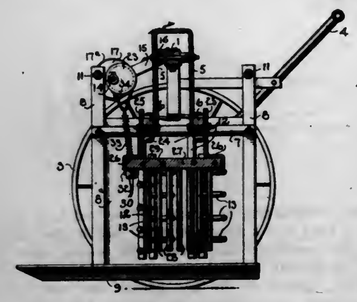
1,458,799. BOLL-WEEVIL MACHINE. ARTHUR BRIGDEN, Birmingham, Ala. Filed Aug. 12, 1922. Serial No. 581,480. 14 Claims. (Cl. 43—143.)

1. A device of the class described, comprising a wheeled supporting frame, a separate frame supported thereby and carrying depending substantially parallel fingers arranged in longitudinal rows, the fingers of each row being staggered with respect to those of an adjacent row, a pair of connecting members connected to the



separate frame on opposite sides of its pivot, and means for pulling on each of the connecting members alternately to oscillate the fingers transversely of the supporting frame.

1,458,800. BOLL-WEEVIL MACHINE. ARTHUR BRIGDEN, Birmingham, Ala. Filed Aug. 29, 1922. Serial No. 584,969. 8 Claims. (Cl. 43—143.)

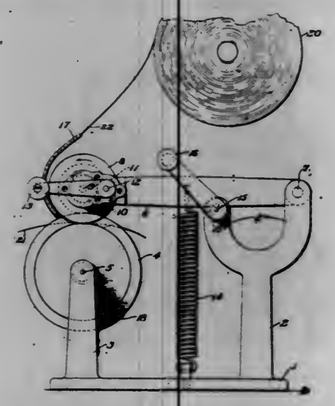


1. An attachment for boll weevil machines, comprising a supporting frame, ground wheels, a transverse drive shaft, means for driving said shaft from the ground wheels, eccentric wheels on said drive shaft, a transversely rocking frame carried by the supporting frame and having depending fingers adapted to swing transversely across the plants, spaced weevil-catching pans at each side of the supporting frame, coiled springs connected to the rocking frame, and chains connected to said springs and to said eccentric wheels.

1,458,801. BATH-CAP-REENFORCING MACHINE. JAMES W. BRUNDAGE, Akron, Ohio. Filed Jan. 3, 1922. Serial No. 526,828. 9 Claims. (Cl. 154—1.)

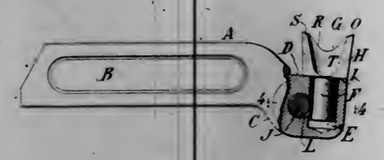
7. An apparatus for the purpose described comprising a base, a bearing member supported thereby, an idle roll rotatably carried by said member and having a wedge shaped periphery, a standard supported by said base having a forked upper end, an arm pivoted to one of said forks, a roll journaled at the free end of said arm having a V-shaped periphery coacting with the periphery of said

first named roll, a spring action on said arm tending to hold said rolls in contact, a cam carried by the other



fork and bearing on the under side of said arm and provided with operating means, means for operating said arm, and means for rotating one of said rollers.

1,458,802. TOOL HOLDER AND TOOL. GEORGE W. BUFFORD, Buffalo, N. Y., assignor to J. H. Williams & Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 2, 1919. Serial No. 314,983. 15 Claims. (Cl. 29—100.)



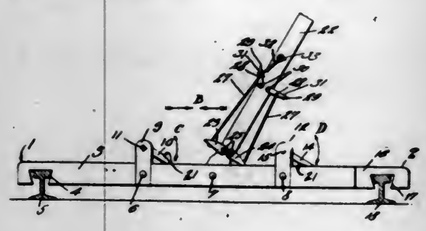
1. The combination of a tool holder and tool, the tool having a head and a shank, and the tool holder having a socket for receiving the shank, the socket and shank shaped to permit multiple angular adjustments of the head with relation to the tool holder, and means engaging the shank for clamping the tool in the holder.

1,458,803. INSULATED ELECTRIC WIRE. HARRY B. BURLEY and HENRY E. ROONEY, Brookline, Mass., assignors to Boston Insulated Wire and Cable Company, a Corporation of Massachusetts. Filed Feb. 6, 1922. Serial No. 534,469. 3 Claims. (Cl. 173—264.)



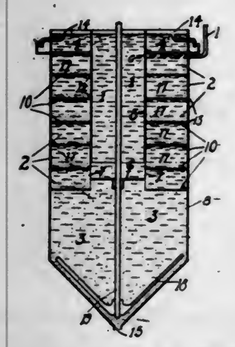
2. A high voltage rubber insulated electric wire comprising a conductor, a plurality of layers of rubber compound enclosing said conductor, and a continuous interlayer of an insulating material of a conductivity substantially greater than the conductivity of the rubber separating the successive layers of rubber, whereby the voltage carrying capacity of the wire is increased.

1,458,804. RAIL SPREADER. GROVER W. BURLISON, Grundy, Va. Filed Nov. 3, 1921. Serial No. 512,544. 2 Claims. (Cl. 254—43.)



1. In a device of the class described, first and second members, connected for relative longitudinal sliding movement, the second member having a rack; reversible dogs carried by the first member and adapted to engage the rack; a lever mounted to swing on the first member; pawls carried by the lever and adapted to cooperate one at a time with the rack; and means for holding either pawl out of engagement with the rack.

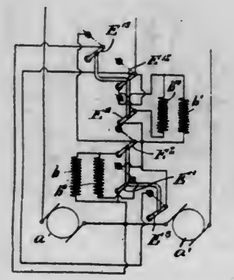
1,458,805. APPARATUS FOR THE SETTLEMENT OF SOLID PARTICLES SUSPENDED IN LIQUIDS. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed Dec. 13, 1920. Serial No. 430,244. 4 Claims. (Cl. 210—51.)



1. In an apparatus for the settlement of solids suspended in liquid, the combination of a container having suspended therein a number of similar parallel sloping settling surfaces separated by similar settling spaces, said settling spaces opening at their upper ends into an overflow space arranged to allow an overflow of clarified liquid, and said settling spaces opening at their lower ends into a discharge space arranged to receive settled solids and to discharge said solids therefrom, and each of said settling spaces opening in a lower part of a side thereof into a supply container arranged to allow a lateral inflow of the suspension to be settled into said settling spaces.

1,458,806. ELECTRIC GENERATING GROUP. EMMANUEL LOUIS PAUL COLARDEAU, Paris, France, assignor to Henry Crochat, Paris, France. Filed Oct. 22, 1918. Serial No. 259,220. 2 Claims. (Cl. 171—223.)

1. An electric installation comprising a plurality of shunt dynamos constituting a dynamo system, said dynamos being capable of running at different speeds and of stopping individually, an auxiliary series field winding system for starting purposes associated with said dynamo system, said field winding system comprising auxiliary field winding elements so arranged that the current of each dynamo passes, during the starting period, through at least a part of the field winding elements of all the other dynamos of the dynamo system, said auxiliary



winding elements being all of cumulative effect with respect to the shunt field of each dynamo, and means to cut out said auxiliary field winding elements when the starting period of the dynamo system is over, said means being also capable of switching said auxiliary winding elements for starting action when a part of the dynamo system is out of action.

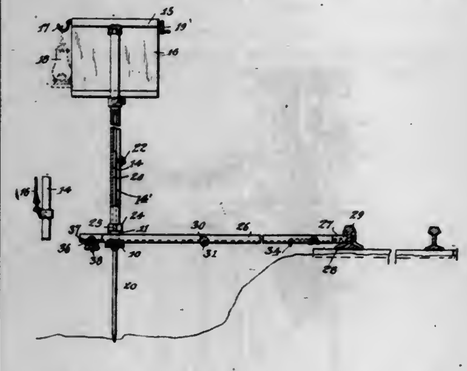
1,458,807. HOOK AND EYE. FRANK D. COLLINS and THOMAS H. COKER, Hartsville, S. C. Filed Dec. 23, 1921. Serial No. 524,472. 1 Claim. (Cl. 24—228.)



A fastener of the class described comprising an eye member and a substantially U-shaped hook member, said hook member having its bight bent back upon itself forming arms of substantially parallel inner and outer members, eyes formed on the extremities of the outer members, a tongue forming part of one of the arms extending towards and having its end in contact with the inner member of the opposite arm, said tongue being adapted to be moved from said contact by inward movement of the outer arms.

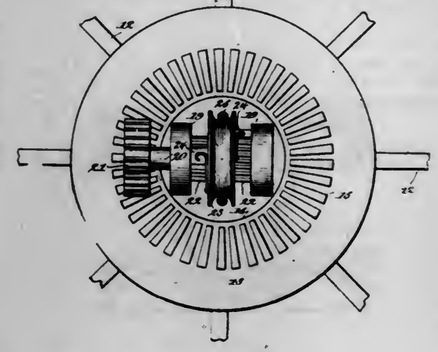
1,458,808. SIGNAL-FLAG SUPPORT. JOSEPH M. CONLEY, Greenville Junction, Me., assignor of one-half to A. M. Bird, Megantic, Province of Quebec, Canada. Filed Mar. 19, 1923. Serial No. 626,089. 6 Claims. (Cl. 246—477.)

1. A signal support comprising a base member, bracket devices attached to said base member and including vertical portions having studs extending from their confronting faces, a mast mounted to swing upon said studs and adapted to carry a signal device, means for locking said mast to said brackets, an extension member, means for locking said extension member adjustably to said mast, bars swingingly connected at their outer portions



to said brackets and adapted to be coupled at their inner ends to a railway rail, and means for locking said bars to said railway rail.

1,458,809. ENSILAGE PACKER. LORENZO D. DARROW, North Plainfield, N. J. Filed Nov. 5, 1921. Serial No. 513,064. 5 Claims. (Cl. 100—57.)



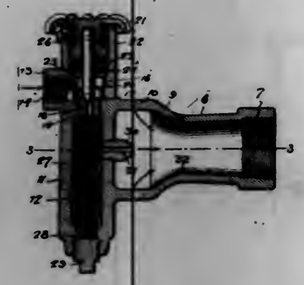
1. A device of the class described, the combination of a body portion formed with gear teeth, a gear cooperative with said teeth, a pulley, and means between said gear and pulley.

5. A device of the class described, comprising a rotatable tamping body, a member rotatably mounted in said body, a ratchet carried by the lower end of said member, a shaft rotatably supported on the upper portion of said member, a pulley loose on said shaft, means whereby said pulley may operate said shaft, and means whereby said shaft may operate said body.

1,458,810. INJECTOR. CLARENCE A. DAWLEY, Plainfield, N. J. Filed Mar. 25, 1921. Serial No. 455,671. 6 Claims. (Cl. 230—13.)

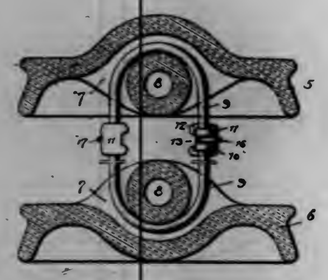
1. A device of the type described, comprising a casting cored to afford an elongated pressure chamber, a perforated screw plug at the inlet end of said chamber, a screw plug at the opposite end of the chamber, a cylindrical screen engaged between said plugs and sur-

rounding the perforation in the inlet plug, a nozzle screwed in the side wall of said pressure chamber, and a discharge tube integral with the pressure chamber



and spaced therefrom by tie webs, said tube lying substantially at right angles to the pressure chamber and coaxial with the laterally projecting nozzle.

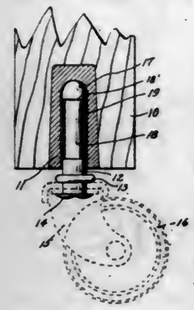
1,458,811. INSULATOR CONNECTOR. GRANDON E. ECKERT, East Liverpool, Ohio, assignor to The R. Thomas & Sons Co., East Liverpool, Ohio, a Corporation of Ohio. Filed Sept. 30, 1920. Serial No. 413,855. 8 Claims. (Cl. 287—113.)



1. A cotter pin for use with an apertured supporting member, said pin being formed from a strip of spring sheet metal of materially greater width than thickness, and comprising a pair of legs integral with and connected by spring bends to the head end of the pin, said legs being spaced apart and oppositely offset to form retaining abutments adapted to automatically engage the walls of the apertured supporting member and to prevent accidental disengagement of the pin after its insertion.

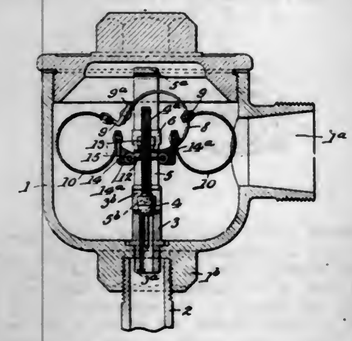
1,458,812. CASTER. EDWARD F. FAY, Meriden, Conn., assignor to Foster, Merriam and Company, Meriden, Conn., a Corporation of Connecticut. Filed Nov. 10, 1921. Serial No. 514,289. 1 Claim. (Cl. 16—38.)

A caster comprising a socket member having a substantially cylindrical socket therein, a pintle reduced in diameter for the greater portion of its length to provide shoulders adjacent its inner and outer ends, a substantially cylindrical, resilient retaining sleeve embracing the reduced portion of the pintle and split longitudinally throughout its length and at one side only, said sleeve forming a bearing for the pintle throughout substantially its entire length and being normally of greater



diameter than the socket so that when it is inserted in the same it frictionally engages the walls of the socket, and said pintle being also provided with a top bearing in the socket and a side bearing in the socket below said sleeve.

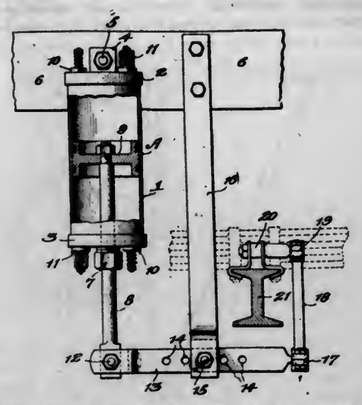
1,458,813. THERMOSTATIC VALVE. JESSE L. FERRIS, Fort Dodge, Iowa. Filed Apr. 18, 1922. Serial No. 554,619. 7 Claims. (Cl. 236—59.)



5. In a thermostatic valve a casing and valve seat, a frame of substantially inverted U-shape within said casing, a double set of curved thermostatic members supported from said frame, a valve carrier supported by said members, and a valve adjustably carried by said carrier.

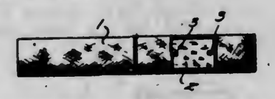
1,458,814. SHOCK ABSORBER. NEVIN S. FOCHT, Pottstown, Pa. Filed Nov. 15, 1922. Serial No. 601,110. 4 Claims. (Cl. 188—88.)

1. A shock absorber including a cylinder having air intake and exhaust valves at opposite ends thereof, a plunger operating within the cylinder, a post carried by the frame of the vehicle, a lever fulcrumed to said post and operatively connected with the plunger, and a



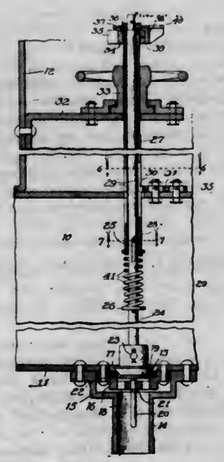
bracket carried by the axle of the vehicle and operatively connected with said lever.

1,458,815. TRANSMISSION BAND. VAL F. FRANCK, Louisville, Ky., assignor of one-third to Charles A. Rowland and one-third to William H. Rowland, both of Louisville, Ky. Filed Sept. 2, 1922. Serial No. 585,944. 5 Claims. (Cl. 188—259.)



5. A transmission band comprising a woven tube and a cork filler within the tube having openings at intervals in its length to provide pockets for holding a quantity of lubricant, said tube and filler being saturated with a composition of graphite and paraffin.

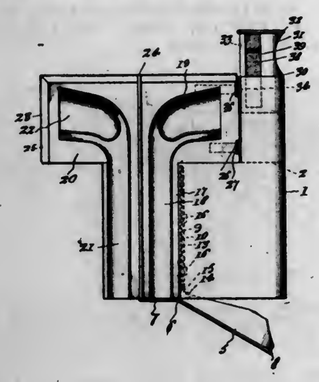
1,458,816. TANK-OUTLET VALVE. FRANK C. FYKE and JOHN E. HUNT, Elizabeth, N. J., assignors to Standard Development Company, a Corporation of Delaware. Filed Nov. 26, 1920. Serial No. 426,424. 4 Claims. (Cl. 137—21.)



2. In a car tank, an outlet secured to the bottom thereof, a reciprocable valve within the tank and adapted

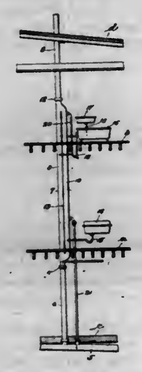
to close said outlet, a vertical rod secured to said valve, a sleeve surrounding said rod, means for reciprocating said sleeve relative to the rod, and coacting means on said sleeve and rod for raising the rod relative to the sleeve, said coacting means being inoperative when the sleeve is lowered relative to the rod.

1,458,817. PIPE-SMOKER'S KIT. SYDNEY BURT GARDNER, Benson, Minn. Filed Mar. 2, 1921. Serial No. 448,964. 6 Claims. (Cl. 206—38.)



1. A smoker's kit comprising a case having a compartment for receiving tobacco opening through one end of the case and being of substantially the same thickness as the case, a compartment for a pipe opening through the side of the case and extending along one side and along a portion of the bottom of the tobacco receptacle, and a match holder slidable in the case through the other end thereof and lying at one side of the pipe compartment and beneath the tobacco receptacle and being of substantially the same thickness as the case, substantially as described.

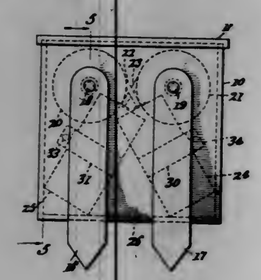
1,458,818. PLUMBING SYSTEM. PETER J. GARVIN, New York, N. Y. Filed Oct. 3, 1921. Serial No. 504,917. 1 Claim. (Cl. 4—21.)



In a plumbing system, a sewer pipe connection, a combined soil and vent element of a length to extend from said sewer pipe connection through a series of rooms of a building and project above the roof of a building, an auxiliary combined soil and vent pipe section of a length as to extend in a series of rooms of the building

and having its ends opening into and formed integral with said element at the upper and lower portions of the latter, said auxiliary section arranged parallel with and in close relation to said element, waste pipe connections leading to said element, a vent pipe leading from one of said connections to the upper portion of said pipe section, a vent pipe connection leading from said sewer pipe connection to said auxiliary section, and a waste pipe connection leading to said auxiliary section.

1,458,819. VEHICLE SIGNAL. JOHN SISSON GRAHAM, U. S. Navy. Filed July 1, 1921. Serial No. 481,915. 3 Claims. (Cl. 177—329.)



1. A vehicle signal comprising a casing closed at its bottom and sides and open at its top, a removable cover for the top, a pair of normally drooping signal arms lying on the outside of one of the casing walls and being spaced apart to opposite sides of the center thereof whereby to act conjointly in signaling, shafts for supporting and raising the signal arms in opposite directions, said shafts entering said casing and each having a sheave, the sheaves therein disposed in separated planes, a flexible connection for each sheave, the connections being wound in opposite directions on the respective said sheaves, solenoids mounted in said casing in off-set relation and being inclined in opposite directions, means detachably held in the casing for removably holding the solenoids in a unitary assembly, and cores in the solenoids connected to the ends of said flexible connections.

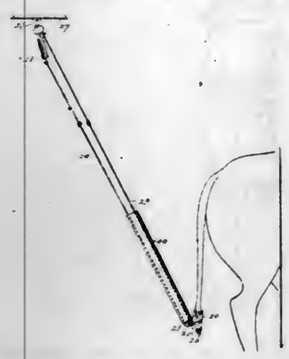
1,458,820. KEYED-SHAFT COUPLING. RICHARD H. GRIFFITH, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Filed July 17, 1922. Serial No. 575,708. 3 Claims. (Cl. 287—52.)



1. A member provided with a key-way for Woodruff type keys having outwardly flaring bottom and side walls for receiving and guiding the key as said keyed member is passed over the keyed shaft.

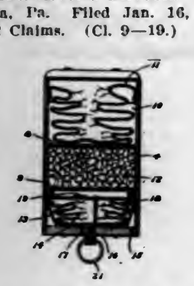
1,458,821. COW-TAIL HOLDER. JOSEPH HAERING, Louisville, Ky. Filed Dec. 2, 1921. Serial No. 519,454. 1 Claim. (Cl. 119—105.)

A cow tail holding device consisting of a clasp having a flexible member provided with a stud, and a plurality of eyes for selective engagement with the stud, a key detachably engaged with the stud for holding an eye in engagement therewith, anchoring and releasing cords for connection with an overhead support and also having connection respectively with the flexible member of the



clasp and said key, the anchoring cord including an elastically extensible member, and a protective sheath embracing the anchoring and releasing cords adjacent to the clamp for preventing the entangling of the cow tail therewith.

1,458,822. LIFE-SAVING DEVICE. ELIJAH T. HALTER, Philadelphia, Pa. Filed Jan. 16, 1922. Serial No. 529,636. 2 Claims. (Cl. 9—19.)

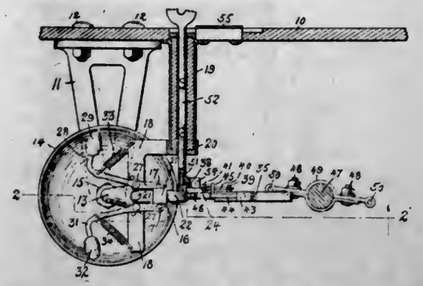


2. In a device of the class described, the combination of a main casing, a plurality of apertured partitions therein, a cover hingedly mounted at one end, a gas bag secured to said main casing and normally contained therein between said cover and one of said partitions, gas forming material between said partitions, a water bag secured in said main casing and operable to supply water to said gas forming material, an end member secured to said water bag, a finger-piece for operating said end member, automatic means for returning said end member to normal position, and valve mechanism associated with the aforesaid elements as and for the purpose set forth.

1,458,823. AUTOMOBILE THEFT ALARM. JACOB MATHEW HERAUCOURT, New Orleans, La. Filed June 22, 1922. Serial No. 570,161. 6 Claims. (Cl. 116—33.)

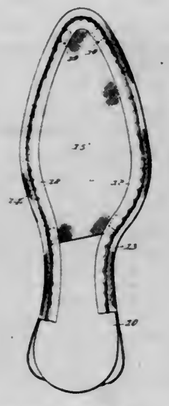
5. In an apparatus of the class described, a rotating member, a gong, a bracket device supporting said gong, and including a key guide, jointed links pivoted respectively to said bracket device and to said spring controlled portion and operating when in longitudinal alinement to hold the spring controlled portion in the path of said rotating member to cause the rotating member to actuate the hammer levers, a catch carried by said swinging member, a resilient member attached to said spring controlled portion and engageable with said catch when said spring

controlled portion is disposed in withdrawn position, a key member insertible through said key guide and having a lateral ward adapted to engage said links and withdraw said spring controlled member from the path of



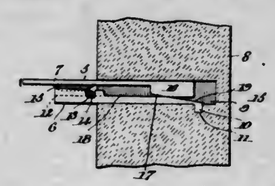
said rotating member and engage said resilient member with the catch when rotated in one direction, and disconnect the resilient member from the catch and release the spring controlled member when rotated in the opposite direction.

1,458,824. SHOE. MEYER S. HESS, Baltimore, Md. Filed Oct. 22, 1921. Serial No. 509,601. 2 Claims. (Cl. 36—18.)



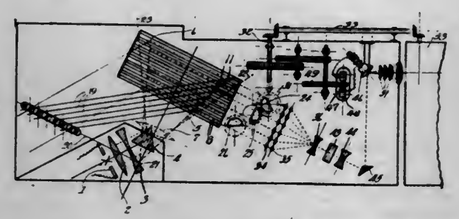
1. A turned shoe having a laminated sole consisting of inner and outer layers of relatively stiff material which is bendable on transverse lines to permit of turning, the latter having a rib and groove, and the peripheral edge of the former being fitted in the groove in contact with the base of the rib, and provided with spaced flexible attaching tabs secured to the rib.

1,458,825. WIRE FASTENER FOR FENCEPOSTS. JAMES IRVING, Jr., Cold Brook, N. Y. Filed July 7, 1922. Serial No. 573,333. 3 Claims. (Cl. 256—50.)



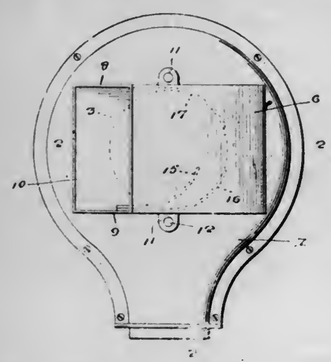
1. A wire fastener for fence posts having a mortise therein, said fastener comprising two elements, one of said elements adapted to be held stationary within the mortise and having a longitudinal groove, a transverse recess inwardly of said groove for the reception of a wire, the other of said elements being provided on its under side with a wedge for co-action with the groove of the first mentioned element for clamping the wire in said recess.

1,458,826. METHOD OF AND MEANS FOR PROJECTING COLORS. FERDINAND JANOVJAK, deceased, by Josef Janovjak, administrator, Chicago, Ill. Filed June 28, 1920. Serial No. 392,280½. 16 Claims. (Cl. 88—16.4.)



1. The method of projecting colors, including the steps of separating a white light ray into its primaries, deflecting the primaries, and oscillating each primary to cover an area on a screen.

1,458,827. HAND-OPERATED BLOWER. WILLIAM JEWETT, Richmond, Va. Filed Oct. 22, 1921. Serial No. 509,511. 2 Claims. (Cl. 230—11.)

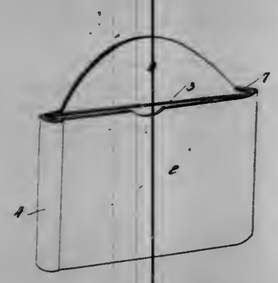


1. In combination with a hand operated blast blower having an opening communicating with its fan chamber; of a casing having a flared entrance mouth arranged transversely over and partly covering the opening, spaced upwardly arched members secured to the bottom of the casing for directing air currents against one of the blades of the fan, and a downwardly arched deflector on the top of the casing opposite one of said directors.

1,458,828. ANTISLIP COMPOSITION. FRANK A. JOHNSON, Norfolk, Va. Filed Nov. 28, 1921. Serial No. 518,255. 1 Claim. (Cl. 134—13.)

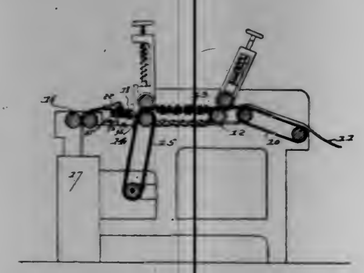
An anti-slipping covering for pulleys, composed of a piece of fabric treated with a compound formed of powdered aluminum ammonium sulphate, cane sugar, lamp black, sodium carbonate, India gum, sheet isinglass, gelatine, and flour, in substantially the proportions stated.

1,458,829. DUPLEX ENVELOPE. WILLARD H. KACKLEY, Byesville, Ohio. Filed Apr. 27, 1922. Serial No. 556,883. 1 Claim. (Cl. 229—72.)



A duplex envelope comprising a single blank embodying a front, a back, and a member connecting the inner edges of the front and back and adapted to form a partition when the blank is folded, said front, back and partition member being of uniform size, a sealing flap at the upper edge of the front, closing flaps at the outer edge and bottom of the front, and other closing flaps at the outer edge and bottom of the back, the flap at the bottom edge of the front being secured to the outer lower edge portion of the partition, the flap at the outer edge of the front being secured to the back, and the flaps at the back being secured to corresponding edge portions of the front.

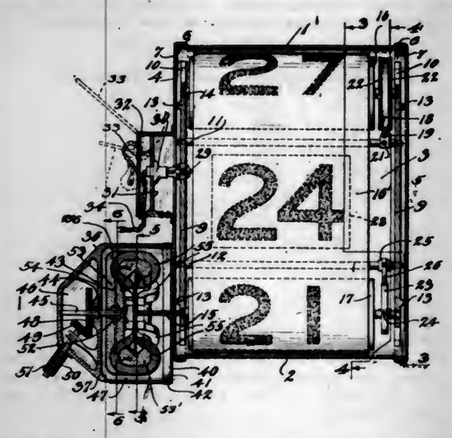
1,458,830. CAN-GILL GUIDE. ONESIME LADEBAUCHE, Woonsocket, R. I. Filed Sept. 13, 1922. Serial No. 587,997. 4 Claims. (Cl. 19—129.)



4. A guide attachment for worsted gill boxes adapted for interposition between the faller mechanism and the calender rolls, the same comprising guide funnels, a transverse guide bar, and brackets supporting said bar and adjustable to move the bar toward and from the plane of the calender rolls.

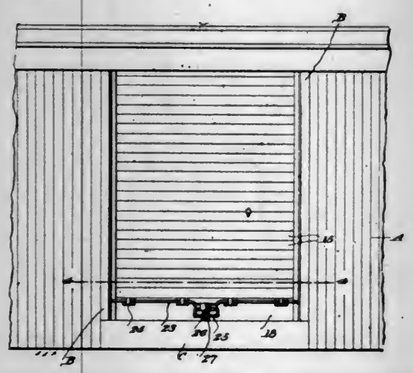
1,458,831. SPEEDOMETER. ERNEST OTTO LANGE, Philadelphia, Pa. Filed Apr. 28, 1921. Serial No. 465,153. 3 Claims. (Cl. 40—90.)

1. A speedometer comprising a housing, indicating means including a frame in said housing, upper and lower rollers each having a shaft rotatably carried by said frame, a curtain wound upon said rollers, a coiled spring positioned about the shaft of the upper roller and anchored to the shaft, a disk rigid upon the shaft of the lower roller, bearing brackets carried by said frame, a spring strip engaging the disk, adjusting screws carried by the bearing brackets and having engagement with the coiled spring and spring strip, and



a magnetic drive for imparting rotary movement to the shaft of the lower roller including a rotary carrier and magnets carrie thereby in operative relation to said disk.

1,458,832. FREIGHT-CAR DOOR. ALBERT A. LARSON, Onawa, Iowa. Filed Mar. 31, 1922. Serial No. 548,506. 4 Claims. (Cl. 20—32.)

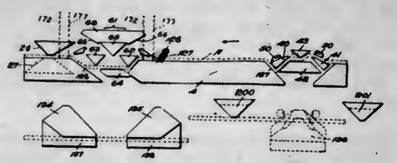


1. In combination with the door jambs of a freight car provided on their confronting faces with guides, a door structure comprising a spring roller secured above the door opening, a rolling door carried by the spring roller and having its edges slidable along said guides, and a latching device for holding the door at a selected position consisting of an extensible rod mounted upon the door, and cam means mounted on the door engageable by the rod upon partial rotation thereof for forcing the end portions of said rod longitudinally in opposite directions to engage said guides.

1,458,833. KNITTING MACHINE AND PROCESS OF PRODUCING SPLIT-FABRIC. ROBERT H. LAWSON, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Sept. 25, 1922. Serial No. 590,238. 88 Claims. (Cl. 66—21.)

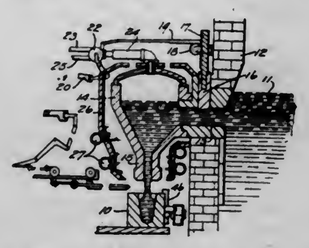
88. That method of knitting a stocking throughout upon a single series of needles, which includes producing

a leg portion by rotary knitting; simultaneously producing segmental portions of the stocking by recipro-



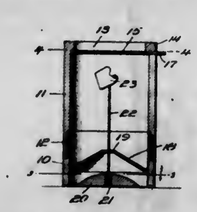
cating knitting, and during the production of said segmental portions joining simultaneously knitted segmental portions by oblique lines of suture loops.

1,458,834. APPARATUS FOR PRODUCING CHARGES OF MOLTEN GLASS. CLYDE R. LOTT, Washington, D. C., assignor, by mesne assignments, to The Owens Bottle Company, a Corporation of Ohio. Original application filed Sept. 27, 1909, Serial No. 519,678. Divided and application filed July 13, 1918, Serial No. 244,684. Divided and this application filed Jan. 7, 1922. Serial No. 527,650. 13 Claims. (Cl. 49—55.)



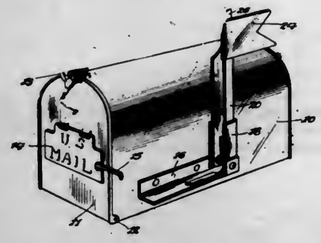
1. The combination with a receptacle to contain molten glass and having a discharge opening in the bottom thereof through which the glass discharges downwardly, a mechanical cutter, means to periodically operate the cutter to sever charges of glass at a point a short distance below the discharge opening and then withdraw the cutter, a burner located at one side of the path of the glass, and means to shift the burner beneath the discharge opening after the cutter withdraws and direct a flame against the freshly cut surface of the glass.

1,458,835. DENTAL CASTING FLASK. NATHAN O. LYNN, Tucson, Ariz. Filed Nov. 19, 1921. Serial No. 516,448. 4 Claims. (Cl. 22—97.)



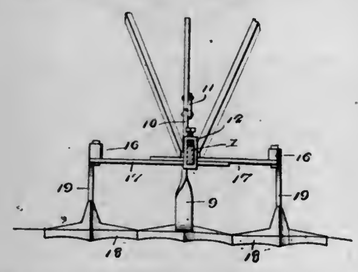
1. In a casting flask as characterized, a flask body open at one end and having a sprue hole opening centrally of the closed end thereof, said flask body being formed to provide upper and lower separable sections one in threaded engagement with the other, a sprue former adapted for insertion into said flask through the sprue hole in the closed end thereof, a pattern carried at the inserted end of said sprue former and adapted to be embedded in a plastic material filling said flask body, and a removable perforated plate carried at the open end of said flask body for reinforcing the plastic filling during the casting operation, the separable sections of said flask body being relatively adjustable for effecting the proper positioning of said pattern within the plastic filling therein.

1,458,836. SIGNAL ATTACHMENT FOR MAIL BOXES. WILLIAM A. MCDOWELL, Stout, Iowa. Filed Dec. 31, 1921. Serial No. 526,124. 4 Claims. (Cl. 232—35.)



1. An automatic signal of the class described comprising a casing secured on a mail box, an arm movably mounted therein, stops for engaging the arm in housed and display positions respectively, a spring for holding the arm in display position and means for locking the arm in housed position.

1,458,837. CULTIVATOR. ROBERT E. L. MAY, Hinesville, Ga. Filed Mar. 29, 1919. Serial No. 286,060. 1 Claim. (Cl. 97—172.)

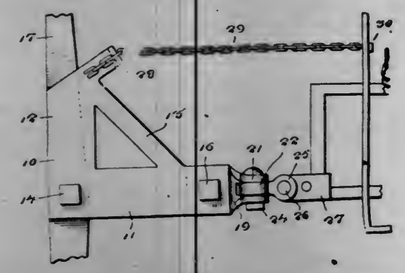


The herein described cultivator comprising a longitudinal central beam having transverse recesses in its lower edge adjacent to its ends, clamping bodies receiving the beam and having vertical, threaded apertures in their upper bars and also having transverse rectangular apertures in their vertical side bars, binding screws bearing in said threaded apertures of the clamping bodies and on the beam, longitudinal side beams in parallelsim adjustable laterally toward and from each other, shovels connected with and carried by the draft beam and the side beams, respectively, and transverse bars of rectangular form in cross-section carried by the side beams and arranged in lapped relation snugly in the transverse recesses of the draft beam and in the transverse apertures in the vertical bars of the clamping bodies and supported by said bodies and also arranged in lapper relation at opposite sides of the clamping bodies.

1,458,838. HITCH. JOHN L. MILLER, Randall, Kans. Filed Nov. 5, 1921. Serial No. 513,109. 2 Claims. (Cl. 278—18.)

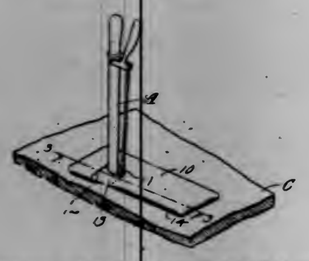
1. A draft equalizer comprising a hitching plate including right angularly disposed relatively rigid arms,

means located at the juncture of the arms for pivotal connection with a draft gear, horizontally and vertically



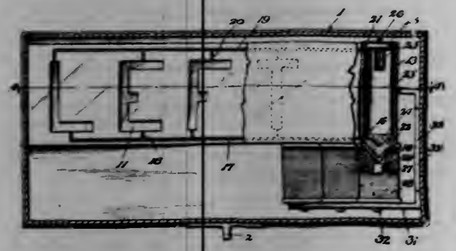
pivoted attaching means secured to one of the arms and a flexible member having one end adjustably secured to the outer end of the other arm.

1,458,839. BRAKE-LEVER SLOT CLOSURE. FRANK E. MILLER, Robinson, Ill. Filed Apr. 17, 1922. Serial No. 553,674. 1 Claim. (Cl. 74—81.)



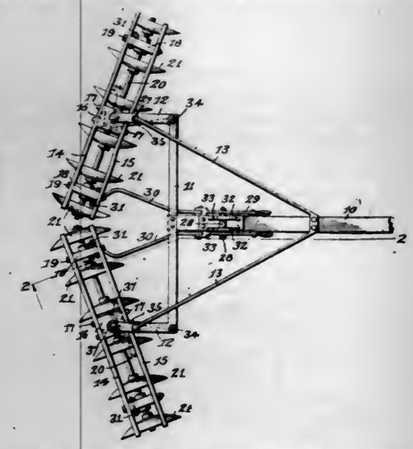
As a closure means for a slot in which a control element operates, in combination with a frame surrounding the slot and rising from the member in which the slot is provided, a closure plate of bendable material having a slot for disposition of the element therein, said closure plate having a downwardly extending flange surrounding said frame to raise the plate with respect to the frame by engagement with said member, said closure plate being slit outwardly from one end of the second mentioned slot to the marginal edge of the plate to provide a single relatively long portion integral with the plate and bendable to facilitate attachment thereto and removal from the element, and said flange extending along said portion to reinforce it.

1,458,840. SIGNAL. JOHN N. MONTGOMERY, GEORGE D. MONTGOMERY, and HERBERT A. DIXON, Washington, D. C. Filed Jan. 23, 1922. Serial No. 531,250. 10 Claims. (Cl. 40—132.)



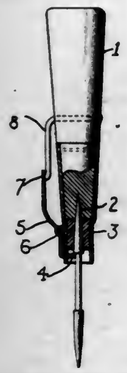
1. In a sign, a sign plate pervious to light rays and having a closed space defining a sign character, a liquid reservoir in communication with said space, a liquid in said reservoir normally standing, by gravity, at a level below the space, a plunger in the reservoir movable to displace the liquid and cause the same to enter and fill the space, the plunger constituting an armature, and an electro-magnet disposed in position to attract said plunger and move the same within the reservoir in a direction to eject the liquid therefrom when the magnet is energized.

1,458,841. DISK HARROW. AUSTIN MOORE, Mount Pleasant, Iowa. Filed Mar. 6, 1922. Serial No. 541,456. 2 Claims. (Cl. 55—81.)



1. In a harrow, a draft tongue having rearward extensions in spaced relation, a frame formed of spaced side members and connecting blocks at the ends and intermediate the ends, said blocks having bearings at their lower ends, shafts engaging said bearings and carrying harrow disks, a pivot device connecting the rearward extension members with each of the intermediate blocks and on which said frames swing, means for swinging said frames and the shafts and harrow disks carried thereby upon the pivots, and means for locking said frames and their attachments in adjusted position.

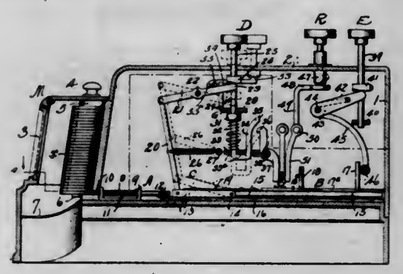
1,458,842. AWL. SAM OVERGARD, Winifred, Mont. Filed Mar. 28, 1922. Serial No. 547,534. 1 Claim. (Cl. 223—37.)



In a sewing awl, the combination with a handle having an inwardly flared socket at one of its ends, a

catch member including a spring influenced jaw entering the socket, said catch including an operating tail arranged exteriorly of the handle, and a needle having its ends pointed, its center flattened and provided with an eye and forming shoulders at the terminals of the pointed ends, and said pointed ends designed to be reversely received in the socket of the handle, and the shoulders thereof engaged by the jaw of the catch, as and for the purpose set forth.

1,458,843. CHANGE-MAKING DEVICE. ANGELO PAPOULIAS, Steubenville, Ohio. Filed Jan. 17, 1922. Serial No. 529,891. 14 Claims. (Cl. 133—2.)



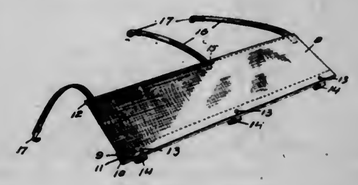
2. In a change making device, a money changing unit including a coin holder, an ejector for the holder, a sliding plunger adapted to normally engage with said ejector, key operated means for actuating said sliding plunger and selective key operated connections for causing said plunger to avoid the ejector.

1,458,844. SUBMARINE BOAT. FREDERICK STANLEY PERKINS, Milwaukee, Wis. Filed Sept. 1, 1921. Serial No. 497,724. 3 Claims. (Cl. 114—16.)



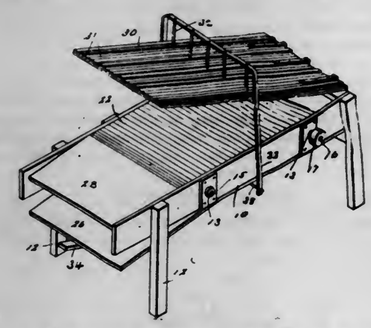
1. In a submarine boat, a hull substantially in the shape of a fish and having a flexible tail portion, a rotary propeller carried in front of the hull, means for inclining the axis of the propeller to direct the course upwardly or downwardly, and means for flexing the tail portion of the hull to change the course toward the right or left.

1,458,845. SHADE ATTACHMENT. WINFORD D. PICKARD, Norman, Okla. Filed July 10, 1922. Serial No. 574,028. 2 Claims. (Cl. 296—97.)



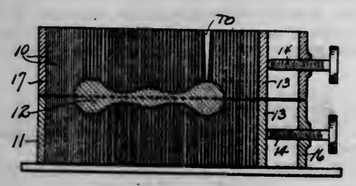
1. A shade attachment for wind shields of motor vehicles, comprising a rectangular body of non-transparent material adapted to be mounted against one face of the upper section of a wind shield, a plurality of rearwardly opening yoke-shaped coupling members having their upper legs or arms arranged against the lower face of said body at the forward portion thereof, said members projecting beyond the forward edge of said body and adapted to overlap one edge of the wind shield section for securing said body therewith, means for securing the upper legs of said coupling members to said body, and a plurality of resilient elements secured to the lower face of said body at the rear thereof and projecting beyond the rear edge of said body, each of said resilient elements having its free end provided with a hook detachably engaging with that edge of the wind shield section to which the coupling members are connected, the said upper legs or arms of the coupling members spacing said body from the wind shield section whereby the hooks when mounted in engaging position will be interposed between said body and the wind shield section.

1,458,846. LEATHER-FINISHING MACHINE. CHARLES WARREN PIERCE, South Duxbury, Mass., assignor of one-half to Charles Driscoll, Brockton, Mass. Filed Nov. 16, 1920. Serial No. 424,397. 3 Claims. (Cl. 149—19.)



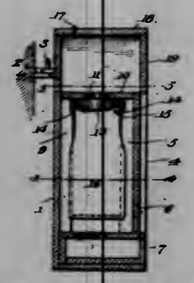
1. In a machine for finishing leather, a frame, an endless belt mounted for movement therein, a plurality of transverse elements fixed to the belt, a surface element of yielding material for each of said transverse elements, and a pressure device for engaging that side of a sheet of leather opposite to that engaged by said surface elements said pressure means including a hingedly mounted element, a U-shaped frame passing around the hinged element and the frame first named, devices connecting various portions of the U frame and the hinged element, and means for depressing the U frame.

1,458,847. MOLD. ALF PIPPING, Altoona, Pa. Filed Mar. 10, 1921. Serial No. 451,254. 3 Claims. (Cl. 22—188.)



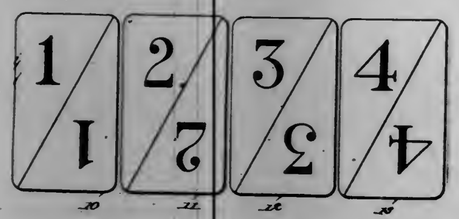
3. A mold forming device including a drag, a plurality of rods of uniform length arranged parallel to each other within the drag and adapted to be shifted longitudinally to conform to the face of a pattern while loosely held in the drag, and means for binding the rods together to hold them rigidly in set molding position, the portion of said rods projecting beyond the drag after setting being cut off.

1,458,848. CABINET. VICTOR J. PLOPLIS, Port Carbon, Pa. Filed Sept. 13, 1921. Serial No. 500,466. 2 Claims. (Cl. 206—15.1.)



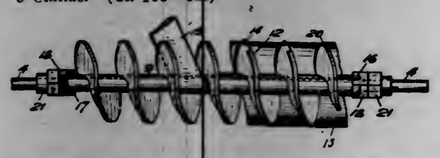
1. A cabinet for tooth brushes and other toilet requisites comprising a box-like body having an open front, a slidable plate partly closing the front, a shelf in the cabinet supported below the upper edge of the front plate and having spaced openings therethrough, threaded annular flanges on the bottom of the shelf surrounding the respective openings, the receptacles having threaded mouth portions engaged by the threaded flanges, and said receptacles designed to receive an antiseptic solution for tooth brushes inserted through the openings in the shelf, a top hinged to the back of the cabinet and having an outer flange designed to cover the open upper portion of the front, and means for locking the said flange to the said front.

1,458,849. CARD GAME. WALLACE H. PRIME, Brooklyn, N. Y. Filed Jan. 20, 1922. Serial No. 530,705. 4 Claims. (Cl. 46—25.)



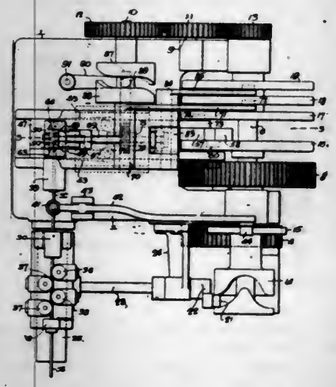
1. A card game characterized by the dealer of the cards winning the number of points respectively the other player loses or the other players lose, and by the dealer losing the number of points the other player wins or the other players win, said card game comprising a deck of cards comprising a plurality of sets of cards, each card of one set having number-indicia on one face thereof, and each card of the other set having distinctive explanatory-indicia respectively on the opposite faces thereof.

1,458,850. WATER ELEVATOR. HENRY C. RATH, Appleton, Wis. Filed Apr. 18, 1922. Serial No. 554,483. 9 Claims. (Cl. 103—91.)



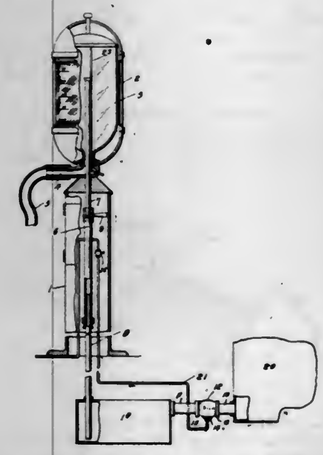
1. A water elevator comprising a shaft, a spiral conveyor blade arranged upon said shaft, a spacing strip wound along said shaft between the succesive convolutions of said blade, and means cooperating with said shaft for drawing the convolutions of said blade and strip into tight relationship.

1,458,851. CHAIN-MAKING MACHINE. MARTIN O. REHFUSS, Philadelphia, Pa., assignor to United States Chain and Forging Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 8, 1920. Serial No. 379,790. 17 Claims. (Cl. 59—16.)



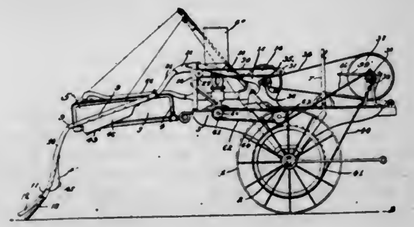
1. The combination in a chain making machine of a slide having two sets of posts; a king post; means for feeding a predetermined length of wire between said two sets of slide carried posts; means for actuating said slide to cause one set of posts to bend the ends of said wire about the king post into substantial parallelism; and means for rotating the second set of posts to further bend said ends to complete the link.

1,458,852. SUPPLY DEVICE FOR FILLING STATIONS OR STANDS. CHARLES A. RUSSELL, Jr., Orange, Tex. Filed Feb. 17, 1921. Serial No. 445,685. 4 Claims. (Cl. 221—100.)



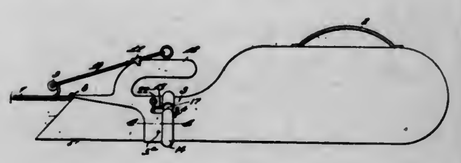
1. A supply device for filling stations comprising a stand, a container carried by said stand, a combined supply and overflow pipe connected to the container, an auxiliary tank connected to said pipe, a storage tank located in a plane above the auxiliary tank, a valve casing connecting said tank, a tube extending into the valve casing, a valve slidably mounted on said tube and adapted to engage a valve seat in the valve casing under pneumatic pressure and having a vent opening, and a pneumatic pressure pipe connected to said tube for seating the valve and for forcing liquid from the auxiliary tank to the container.

1,458,853. GATHERING ATTACHMENT FOR BOLL-WEEVIL EXTERMINATORS. JOSEPH M. SALADINER, Bryan, Tex. Filed May 5, 1922. Serial No. 558,740. 5 Claims. (Cl. 43—140.)



1. The combination with a portable structure, of means for creating a suction, flexible hose in communication with said means, diverging tubular fingers carried by and communicating with each of said hose, said fingers having inlet openings, and adapted to trail on the surface of the ground, receptacles beneath and supported by the hose, there being openings in the hose for delivering particles from the hose to the receptacles.

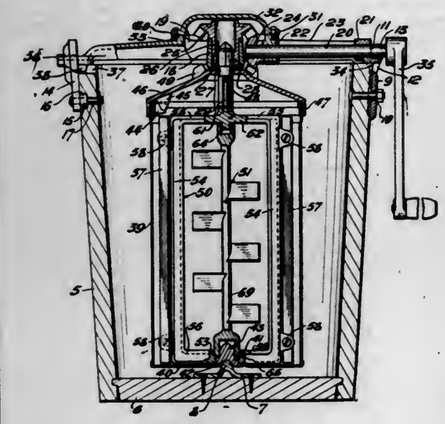
1,458,854. SEED AND POISON POUCH. JOSEPH M. SALADINER, Bryan, Tex. Filed July 1, 1922. Serial No. 572,133. 3 Claims. (Cl. 83—60.)



1. In a device of the class described, a tubular filling member having a hinged closure at one end, a sifter removably mounted in the other end of said member, said member and sifter having cooperating clamping elements to hold them engaged, and a container having a mouth for insertion between said sifter and member and to be clampingly held thereby.

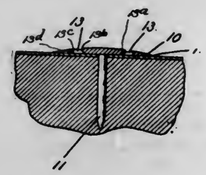
1,458,855. ICE-CREAM FREEZER. EATON D. SARGENT, Nashua, N. H., assignor to The White Mountain Freezer Co., Inc., Nashua, N. H., a Corporation of New Hampshire. Filed Mar. 31, 1923. Serial No. 629,121. 15 Claims. (Cl. 259—51.)

1. In an ice cream freezer, a tub, a can rotatably and removably mounted in the tub, a double rotating agitating and mixing means removably mounted in the can and consisting of an outer beater and an inner beater, the inner beater being loosely and as a whole confined within and



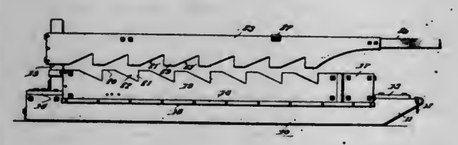
laterally separable from the outer beater, and mechanism supported by the tub in separable relation to the can and agitating and mixing means for operating the latter.

1,458,856. TACK. SIG SCISOREK, Newark, N. J. Filed Oct. 6, 1922. Serial No. 592,792. 1 Claim. (Cl. 85—16.)



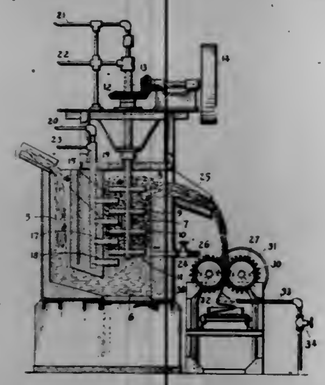
A thumb tack having a plano-convex head provided with a relatively thick central portion tapering outwardly to define a knife edge and having slots upon opposite sides of the central portion, said slots extending entirely through the head, and having downwardly and inwardly tapered walls.

1,458,857. BOLL-WEEVIL EXTERMINATOR. CHARLES R. SCOTT, Bells, Tex. Filed Oct. 14, 1922. Serial No. 594,621. 4 Claims. (Cl. 43—133.)



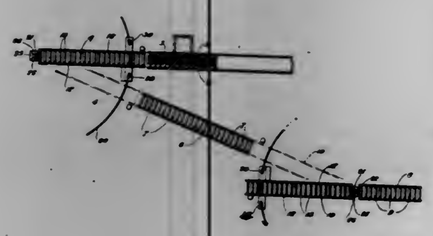
1. A boll weevil exterminator comprising a collecting pan mounted upon skids provided with draft means, forwardly extending divergent arms mounted at the rear end of the machine and projecting beyond the sides of the pan at their forward ends, the upper edges of the sides of the pan being formed with ratchet teeth.

1,458,858. PROCESS OF PRODUCING HOMOGENEOUS POROUS MATERIALS. MATHIAS OVROM SEM, Christiania, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekbank, Christiania, Norway. Filed May 15, 1920. Serial No. 381,717. 16 Claims. (Cl. 49—77.5.)



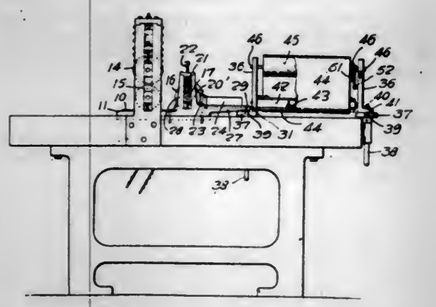
14. In the manufacture of porous materials from melts by producing a foam therein the process which comprises subjecting such foam having a temperature of 1000° C. to the action of a water cooled roller capable of rapidly lowering the temperature of the foam to 800° C., rolling the foam to form a sheet of five millimeters thickness, running the material so treated into a mould and cooling until solidification.

1,458,859. CONVEYING MECHANISM. ANDREW W. SODERBERG, Munhall, Pa. Filed Mar. 24, 1921. Serial No. 455,181. 3 Claims. (Cl. 198—92.)



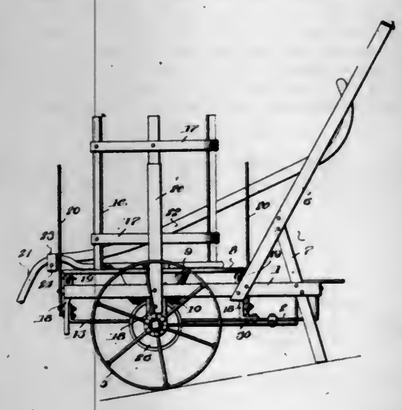
1. In a conveyer for rolling mills a swinging transfer table comprising a body portion having conveying rollers journaled therein, said body portion having its one end pivotally mounted on a fixed pivot stand, traction wheels journaled adjacent the other end of said table adapted to support and move said table on a suitable curved track, an operating shaft geared to all of said conveying rollers, a motor carried by said table for driving said operating shaft, and a second motor for driving said traction wheels.

1,458,860. APPARATUS FOR CONSERVING INK. RANDOLPH SOLOMON, Washington, D. C. Filed Oct. 6, 1920. Serial No. 415,057. Renewed Jan. 30, 1923. 3 Claims. (Cl. 101—167.)



1. An apparatus for removing and conserving ink applied in excess to a moving engraved printing plate comprising a wiper roller, an ink reservoir and scraper combined as a unitary structure, and means to adjust said unitary structure relative to the roller.

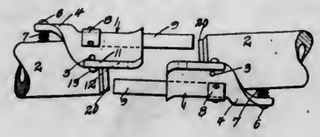
1,458,861. SELF-WINDING HOSE REEL. WILLIAM A. SPRINGOWSKI, Lorain, Ohio. Filed Oct. 21, 1922. Serial No. 596,088. 3 Claims. (Cl. 242—88.)



1. In a device for the purpose set forth, a wheeled frame, a table thereabove, antifrictional bearings therefor, spaced rods secured on the table, rings surrounding and connecting the rods, and said rods and rings providing a hose reel, guard rods to the sides and to the front of the reel supported from the frame, means for revolving the table when the frame is wheeled, means for rendering the said mentioned means inoperative, and means for directing a hose on to or from the reel to coil or uncoil said hose.

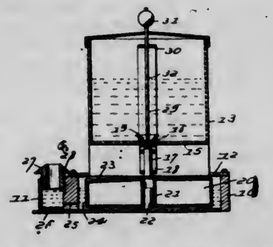
1,458,862. AIR-HOSE COUPLING. JOHN STENGER, McKeesport, Pa. Filed June 25, 1921. Serial No. 480,399. 6 Claims. (Cl. 285—58.)

1. In a coupling, in combination with two aligned pipe sections, coupling members rockably mounted on the adjacent ends of the pipe sections and each adapted to enclose one half of the end portion of the other pipe sec-



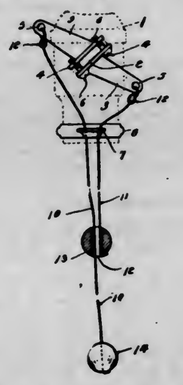
tion, means for forcing the outer end portions of said members toward each other, and means for detachably securing said members in coupled relation.

1,458,863. FOUNTAIN INKWELL. JACOB K. ULLMAN, New Haven, Conn. Filed June 15, 1921. Serial No. 477,754. 3 Claims. (Cl. 120—59.)



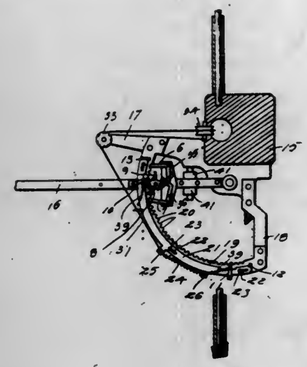
1. An ink well having a dispensing chamber with a communicating dip socket accessible by a penpoint, a closed tank or reservoir in communication with the dispensing chamber, a float actuated valve controlling the point of communication between the tank and the dispensing chamber, and a trip or cleaning rod having one extremity arranged at the point of communication between the tank and the dispensing chamber and in engagement with the valve for unseating the latter and opening up the passage constituting the point of communication, the remaining extremity of the trip being exteriorly exposed for access by the operator.

1,458,864. PULL ATTACHMENT FOR ELECTRIC-SWITCH KEY SOCKETS. JOHN M. UPTON, Louisville, Ky. Filed Aug. 15, 1921. Serial No. 492,296. 3 Claims. (Cl. 240—123.)



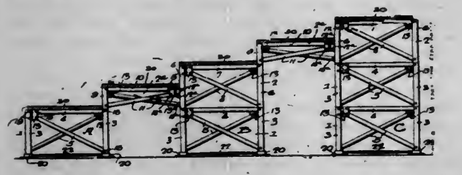
1. A pull attachment for electric switch key sockets, the same comprising a sectional lever consisting of two sections adapted to be positioned one at each side of the switch key, each of said sections having a flange at its inner end adapted to engage a side of the key, adjustable fastenings connecting the flange of one section to the flange of the other section and adapted to clamp the sections to the key, said adjustable fastening providing means whereby the attachment may be applied to keys of different shapes, and pull elements having connection with the outer ends of the lever.

1,458,865. WINDMILL GOVERNOR. LUI C. VERGANO, Berkeley, Calif. Filed Jan. 21, 1922. Serial No. 530,983. 7 Claims. (Cl. 170—41.)



1. In a windmill embodying a pivoted rudder arm, means for securing the rudder arm at the limit of its movement in each direction, a trip bar for effecting release of the rudder arm at either extreme position thereof, means normally holding the trip bar at the limit of its movement in one direction, and float operated means for effecting positive movement of the trip bar in a reverse direction.

1,458,866. PORTABLE STRUCTURE. CHARLES H. WETZEL, Wayne, Pa. Filed July 28, 1921. Serial No. 488,162. 11 Claims. (Cl. 189—2.)

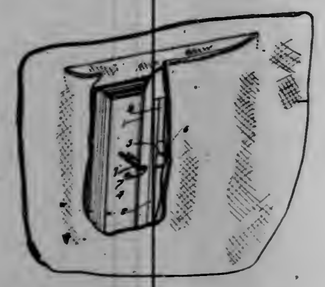


1. A structural unit comprising a plurality of uprights and adapted for end to end attachment to like units with the uprights of one unit in substantially vetrical alignment with those of another, and cross bars connecting said uprights and extending beyond the ends thereof to overlap the joints where the aligned uprights meet, thereby to prevent displacement of the units with respect to each other.

1,458,867. POCKET SAFETY DEVICE. OSCAR N. WIMberly, Jacksonville, Fla. Filed Feb. 19, 1921. Serial No. 446,403. 7 Claims. (Cl. 24—3.)

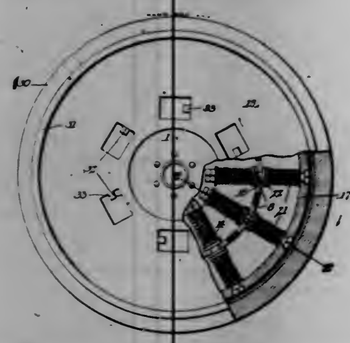
1. Safety means of the character specified, comprising complemental members, a rod rotatably mounted upon one of the members and provided with a laterally extending

locking finger, and an elongated finger piece secured to the rod and having a lug disposed approximately in a



plane at a right angle to the locking finger and engaging the member to hold the locking finger in locking position.

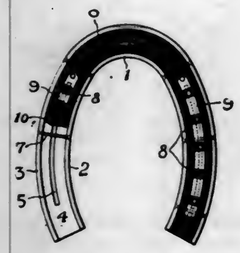
1,458,868. WHEEL. JACOB WOLLMANN, Freeman, S. Dak. Filed May 19, 1921. Serial No. 470,808. 1 Claim. (Cl. 152—28.)



A spring wheel of the character described comprising a hollow hub section, a hollow tire carrying section surrounding the hollow hub section, and having its sides lapping and in contacting engagement with the side walls of the hollow hub section, overlapping flanges forming the rim of the hollow hub section and being provided with spaced elongated openings, bolts radiating from the hollow tire carrying section and passing through the openings, thereby arranging a portion of each bolt in each section, anti-friction elements arranged in each section surrounding the bolts and engaging the flanges, adjusting means carried by the inner ends of each bolt, a spring surrounding the portions of each bolt disposed in the hollow tire carrying section and having its end convolutions engaging the rim of the hollow tire carrying section and the adjacent anti-friction element respectively, a spring surrounding the portion of each bolt disposed in the hollow hub section and having its end convolutions engaging the other anti-friction members and the adjusting means respectively, outstanding lugs formed on one side wall of the hollow hub section and one side of the tire carrying section having elongated slots for receiving the lugs.

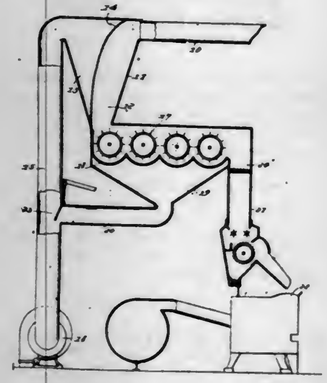
1,458,869. HORSESHOE. ICHITARO YOSHIDA and KICHIGORO MATSUBAYASHI, Osaka, Japan. Filed Mar. 10, 1922. Serial No. 542,694. 3 Claims. (Cl. 168—13.)

1. A horseshoe comprising a metallic base provided with a channel on its under side, a yieldable filling member deposited in said channel and extending beyond the under side of said metallic member to form a tread surface, and means for securing said yieldable member in said channel, said yieldable member being composed of



a plurality of sections placed on edge tightly in said channel, the medially positioned sections being recessed below said tread surface to form grooves adapted to house said securing means.

1,458,870. COTTON CLEANER. AUGUST ZOELLER, Sacred Heart, Okla. Filed July 6, 1922. Serial No. 573,192. 3 Claims. (Cl. 19—80.)

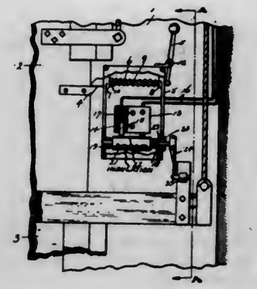


1. A cotton cleaning apparatus having main and auxiliary vacuum boxes of which the latter receives cotton from the former and is provided with spiked rollers and a cooperating sectionally breasted auxiliary screen and is in communication with the distributor, a suction conveyor having main and branch members in communication respectively with said main and auxiliary suction boxes, and a controlling valve located at the intersection of said main and branch members for arrangement in relative cut-off relation respectively therewith.

1,458,871. ELEVATOR LOCK. JOHN BAER, Toronto, Ontario, Canada. Filed July 1, 1921. Serial No. 481,894. 1 Claim. (Cl. 187—31.)

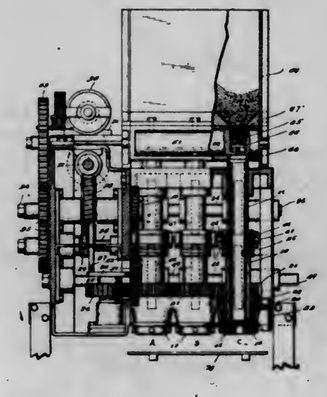
In elevator locks for two members movable in relation to one another, an electric safety device and mechanical means for operating the same comprising a cam fixedly secured to one member and formed with an inclined riding surface, an electric contact inserted lengthwise in an insulated block made in the form of a roller and journalled in the other member, an arm extending from said contact roller and carrying a roller at the end thereof riding on said inclined surface and a plurality of electrical contacts slidably supported and

spring-held in contact with said contact roller and permanently connected to an electric operating circuit and



forming a switch mechanism actuated to make or break the electric circuit on the movement of a member aforesaid.

1,458,872. FOOD MACHINE. WILLIAM E. BROBST, Jr., Noblesville, Ind. Filed Aug. 26, 1920. Serial No. 406,087. 10 Claims. (Cl. 107—2.)



1. A machine for producing coiled-shred food-products, comprising a rotatable die having holes therethrough, and a plunger reciprocable in said die and rotatable therewith to force out in the form of shreds through the holes in the die material supplied to the die, so that by the rotation of the die such shreds are deposited in coils.

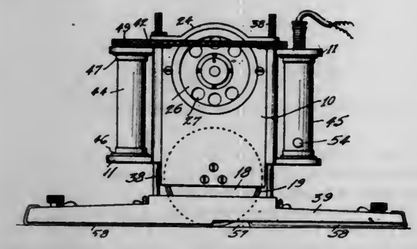
3. In a machine for producing coiled-shred food-products, the combination of a rotatable die having an annular space, said die being provided with outlet holes leading from said annular space, a hollow plunger rotatable with said die and reciprocable with relation to said die into and out of such annular space to intermittently isolate it, and means for supplying food material to said annular space when such plunger is withdrawn therefrom, so that as the die rotates and the plunger enters into such annular space the material in such annular space is forced out through such holes in the form of shreds which are deposited in coils by the rotation of the die.

1,458,873. BUTTON. ALEC BROOKE, Glasgow, Scotland. Filed Feb. 7, 1922. Serial No. 534,699. 5 Claims. (Cl. 24—90.)



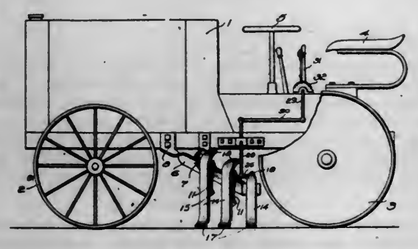
1. A button comprising a body part and a shank, the latter consisting of two oppositely disposed hooks spaced apart and arranged side by side, the hooks forming an eye.

1,458,874. MOTOR-DRIVEN SURFACE-TREATING MACHINE. ALEX A. CLARKE, Dallas, Tex. Original application filed Feb. 13, 1920, Serial No. 358,485. Divided and this application filed Jan. 22, 1921. Serial No. 439,185. 1 Claim. (Cl. 51—174.)



In a machine of the character described, a frame having a horizontal transverse chamber formed integral within the upper end thereof, said chamber having its wall formed imperforate and provided in its lower portion with an opening, a horizontal bracket secured to the lower portion of said wall and extending into said opening, plates detachably held within the ends of the chamber, bearing devices carried by said plates, a motor mounted in the chamber and embodying an armature shaft journaled in said bearing devices, a rotating surface treating element rotatably mounted within the lower portion of said frame, a gear mounted upon the surface treating element and arranged within said frame, an intermediate gear arranged within said opening within the frame and mounted upon said horizontal bracket, a gear mounted upon the armature shaft and arranged within said chamber and engaging the intermediate gear, and supporting means for the frame.

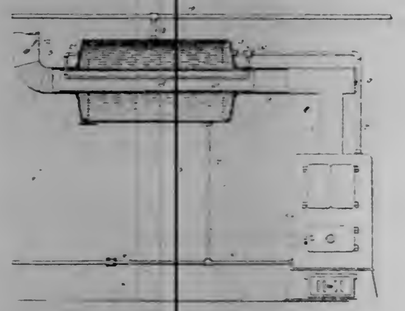
1,458,875. CORNSTALK LIFTER. LOUIS T. COLLIN, Sacred Heart, Minn. Filed Dec. 28, 1920. Serial No. 433,568. 4 Claims. (Cl. 56—51.)



1. The combination with a vehicle of a corn stalk lifter comprising a frame adapted to be secured to the side of the vehicle, supporting members arranged there-

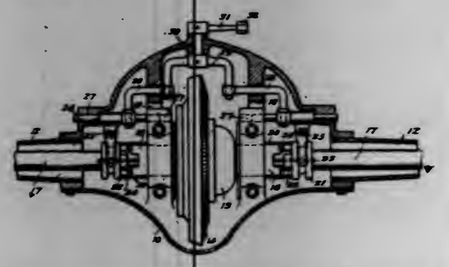
on, the inner supporting member being rigidly secured to said frame, the other supporting members being pivotally secured to said frame, and tines pivotally mounted on said supporting members.

1,458,876. BOILER AND WATER HEATER. JOE CONFER, New York, N. Y. Filed Jan. 15, 1923. Serial No. 612,829. 1 Claim. (Cl. 126—365.)



In combination with a boiler and its chimney, a water drum surrounding a portion of said chimney, said chimney passing through the water drum, a pipe leading from the boiler to the water drum, and a second pipe connected to said first-mentioned pipe at a point exterior of the water drum and chimney, said second-mentioned pipe passing into the chimney extending longitudinally thereof to a point beyond the end of the water drum and then passing through the chimney and connected to that end of the water drum opposite to the end to which the first-mentioned pipe is connected.

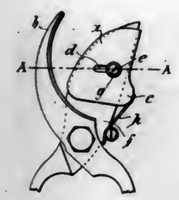
1,458,877. ATTACHMENT FOR DIFFERENTIAL GEARS. JOHN HENRY DAIR, Keyport, N. J. Filed Jan. 31, 1922. Serial No. 533,024. 1 Claim. (Cl. 74—100.)



Operating means for the movable clutch members of the differential gear lock adapted to be contained within the differential housing and comprising a rotatable shaft journaled in the housing, a double crank carried by said shaft within the housing, a link pivotally connected to each arm of the crank, a shaft for each clutch member slidably arranged in the housing, each shaft being connected to one of said links, and a shifting fork carried by each shaft and engaged with a clutch member.

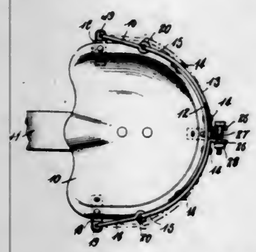
1,458,878. SCISSORS OR PRUNERS FOR CUTTING FRUIT, FLOWERS, OR THE LIKE. FRANK DEXTER, London, England. Filed June 16, 1919. Serial No. 304,432. 2 Claims. (Cl. 30—24.)

1. A cutting device of the type specified, comprising in combination, two blades, a jaw mounted on one of said blades, two transverse and parallel slots in said jaw, two pins projecting laterally from said blade and engaging said slots, a recess extending from the back of said jaw between and parallel with said slots, and a



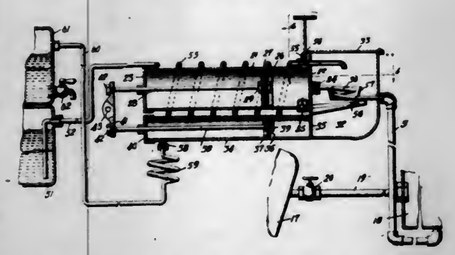
spring located within said recess and bearing with one end against said jaw and with the other end against said blade in such manner as to force it resiliently towards the other of said blades.

1,458,879. ADJUSTABLE SEAT BACK. JOSEPH P. GARVER, Charleston, Ill. Filed Aug. 24, 1922. Serial No. 584,049. 6 Claims. (Cl. 155—152.)



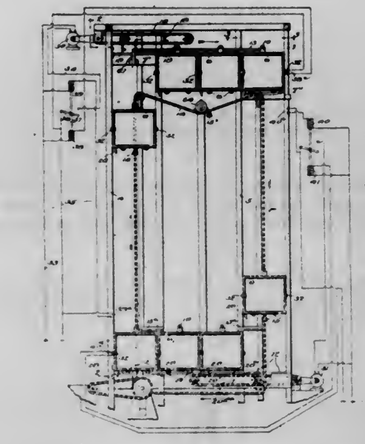
1. The combination with a seat of a back, means for connecting said back to said seat, a pair of strap-like members provided with angular ends secured to said back and an adjusting bolt for engaging the angular ends of said straps for flexing said back.

1,458,880. LIFEBOAT APPARATUS. FRANK ARCHIE GRAHAM, Harbor Springs, Mich. Filed Aug. 13, 1920. Serial No. 403,375. 16 Claims. (Cl. 9—3.)



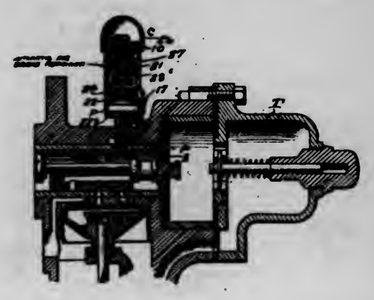
5. In an apparatus of the class described, the combination with a life boat, of a compressed air cylinder, a piston slidably mounted in said cylinder, means for manually reciprocating said piston in said cylinder so as to form compressed air, means for manually creating a vacuum, means associated with said cylinder for preheating salt water utilizing the heat of the compressed air in said cylinder, means for distilling said salt water utilizing the heat of said compressed air, means for condensing the steam from said salt water for use as drinking water, and means for utilizing said compressed air for the propulsion of said life boat.

1,458,881. ELEVATOR SYSTEM. WOLFGANG GRÖMER, New York, N. Y. Filed Sept. 28, 1922. Serial No. 591,121. 10 Claims. (Cl. 104—28.)



1. In an elevator system, a plurality of cages, guiding means for the cages including vertical and horizontal guideways, and means for controlling the rate of descent of a sage in the vertical guideway and for simultaneously shifting a cage along the horizontal guideway.

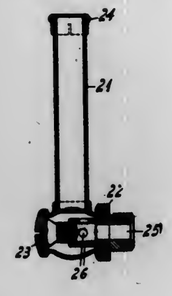
1,458,882. AIR-BRAKE VALVE. FRANK EMERSON HARRIS, Laramie, Wyo. Filed May 17, 1921. Serial No. 470,421. 6 Claims. (Cl. 303—78.)



1. In an air brake apparatus of the character described, including a triple valve, an auxiliary reservoir and a brake cylinder, in combination, a valve connected with the exhaust of said triple valve and adapted to establish an exhaust for said triple valve when the triple valve is in its released position and also adapted to establish communication with the auxiliary reservoir and the brake cylinder upon the pressure within the auxiliary reservoir reaching a predetermined degree.

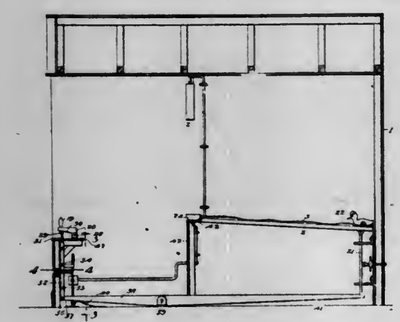
1,458,883. CLOSURE FOR RECEPTACLES. FRANZ HUNZIKER, Lucerne, Switzerland. Filed Mar. 30, 1921. Serial No. 456,866. 6 Claims. (Cl. 220—82.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. Transparent closing for easily penetrable fluids such as oil, petroleum and such like, characterized by the circumstance that same consists of elastic transparent



material so that it can be made tight by pressure against the connecting body without the use of packing material.

1,458,884. AMUSEMENT DEVICE. JACOB IRSCH, Long Island City, and JAMES MARKEY, New York, N. Y. Filed Feb. 7, 1922. Serial No. 534,694. 8 Claims. (Cl. 46—56.)

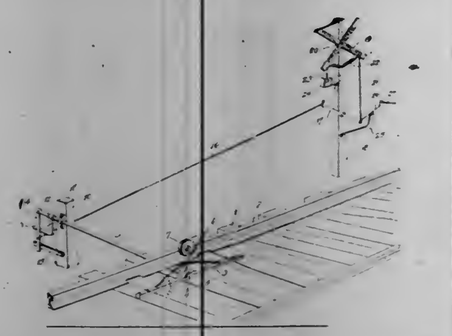


1. An amusement device of the character described comprising a traveling member, a track for said traveling member, a projectile carried by said traveling member, manually actuated means for controlling the movement of said traveling member, a signal member, and an electric circuit for operating said signal member, said electric circuit including a pair of contacts adapted to be closed by said projectile when discharged by said traveling member at the proper point.

1,458,885. CROSSING SIGNAL FOR RAILROADS. JOHN R. JOHNSON, Portland, Oreg. Filed Oct. 11, 1921. Serial No. 507,079. 2 Claims. (Cl. 246—293.)

1. A railroad signal apparatus comprising the combination with railway rails, and a signal including pivotally mounted cross arms, means for holding the cross arms in a fixed position, a trip wheel arranged near one of the rails to be engaged by the wheels of the train, an operating shaft connected to the trip wheels, an operating arm secured to the outer end of the shaft, a swinging lever loosely connected to the said shaft and adapted to be engaged by the operating lever when the latter swings in one direction, means to limit the movement of the swinging arm in the opposite direction, a lever pivotally mounted upon the signal post supporting

the cross arm, means connecting the said cross arms with the said lever, and a flexible cable connecting the



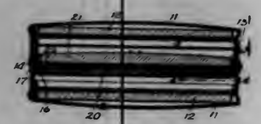
said swinging arm with the said lever whereby the said swinging signal arms may be intermittently swung as the wheels pass over the said trip wheel.

1,458,886. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed Feb. 17, 1922. Serial No. 537,273. 7 Claims. (Cl. 132—83.)



4. A holder for powder compacts comprising a flanged plate and a plurality of retaining fingers, said fingers being offset with respect to the upper edge of said flange.

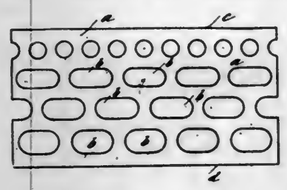
1,458,887. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed Dec. 18, 1922. Serial No. 607,657. 8 Claims. (Cl. 132—83.)



1. In a vanity case, a split ring, means for removably securing said split ring within the vanity case, and means formed integral with the split ring for supporting a plurality of cosmetic compacts in position in the vanity case.

1,458,888. BUILDING BLOCK. ACHILLE KNAPEN, Brussels, Belgium. Filed Sept. 2, 1921. Serial No. 498,072. 1 Claim. (Cl. 72—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A building block formed with a number of inert air spaces arranged in a plurality of rows with the air spaces of one row in staggered relation with the air spaces of adjacent rows, the said air spaces being of progressive thickness from the outer to the inner face of the block, whereby said air spaces exert their maximum effect in that part adjacent to the inner face of



the block and whereby the density of the block is greater in that part adjacent to the outer face of the block and gradually decreases forward the inner face of such block.

1,458,889. CHILD'S GARMENT. DAVID LANG, Brooklyn, N. Y. Filed May 3, 1922. Serial No. 558,116. 1 Claim. (Cl. 2—145.)



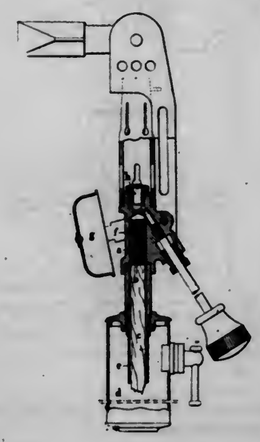
1. A child's garment comprising a waist portion having a skirt, the lower portion of said skirt folded upwardly within the skirt to form a tuck or hem extending entirely around the skirt, a continuous band of material folded over at its upper end, said folded over end extending between the upper end of the tuck or hem and the inner face of the skirt, said folded over end and tuck or hem permanently secured to the inner face of the skirt, and a plurality of fastening devices located on the outer side of said band adapted to removably secure a nether garment.

1,458,890. FLY-PAPER HOLDER. DAVID LEVY, New York, N. Y. Filed Nov. 22, 1921. Serial No. 517,059. 2 Claims. (Cl. 43—115.)



1. A holder for a strip of fly paper, comprising a frame open at the top and presenting a substantially trough-shaped structure, said frame having the side walls thereof of greater height at each end than at the center, said side walls at the ends being formed with openings, a rotatable member arranged in each of said openings, a spool mounted on one of said rotatable members, said spool being adapted to carry a coiled supply of fly paper, a connecting member secured to one end of said supply supply paper adapted to connect said fly paper with the other of said rotatable members, and manually actuated means for rotating the last mentioned rotatable member, said manually actuated means acting as a guide for guiding said paper whereby it may be wound on the last mentioned rotatable member.

1,458,891. VAPORIZER FOR LIQUID-FUEL BURNERS. JULES EUGÈNE MALIVERT, Paris, France, assignor to The Societe Anonyme des Appareils J. E. Malivert, Paris, France. Filed Dec. 14, 1921. Serial No. 522,452. 4 Claims. (Cl. 158—27.)



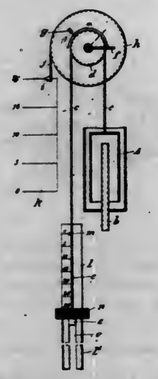
1. An improved gasifying device for soldering lamps, comprising a member having a central passage and longitudinal hollow ribs opening into the central passage, and a throttle-washer at the inlet end of the said member.

1,458,892. UNDERGARMENT. JOHN HOFFECKER MOFFAT, Indianapolis, Ind. Filed Mar. 24, 1922. Serial No. 546,384. 2 Claims. (Cl. 2—144.)



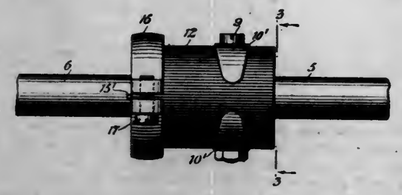
2. A union garment comprising a shirt and drawers, a pair of straps, each strap secured at one end within the shirt at each side of the median line of the back of the shirt, the drawers having slots in their waistband to the front and rear of the hip points, said straps adapted to be interlaced through said slots and over the hips to connect the shirt and drawers, fastening means at the free ends of the straps, and cooperating fastening means on the front of the shirt at each side of the front opening thereof for securing said straps and shirt together, said drawers including a rear drop flap, and means for securing the free edge of the drop to the waistband of the drawers adjacent the rear slots in the waistband.

1,458,893. REGISTERING MECHANISM OF GAS-ANALYSIS APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Filed Oct. 31, 1918. Serial No. 260,548. 6 Claims. (Cl. 284—34.)



1. In a gas-analyzing system, the combination of a gas-analyzer, comprising a bell gasometer for measuring residual gas after absorption of a given constituent, registering means associated with a chart arranged to normally register on said chart when a predetermined minimum volume of unabsorbed gas is left after absorption of the absorbable portion of the gas mixture being tested, a lost motion connection between the bell of said gasometer and said registering means, with means for measurably diminishing by a predetermined amount the lost motion of the said lost motion connection.

1,458,894. FLEXIBLE COUPLING. ERNEST SCHWARZ, New York, N. Y. Filed May 21, 1921. Serial No. 471,403. 1 Claim. (Cl. 64—96.)

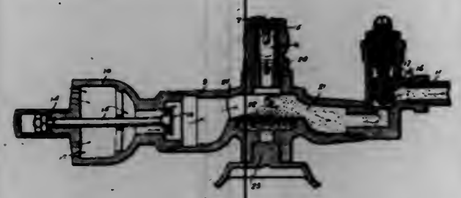


A flexible coupling for alined shaft members, comprising a collar keyed to one of said shaft members, said collar having a roughened outer surface, a flexible tubular member having its ends open, one of which ends is adapted to receive said collar having the roughened outer surface, a band for clamping said tubular flexible member about said collar, a collar carried by the opposite shaft member and having openings adapted to be brought into alinement formed radially through said shaft member, a bolt adapted to pass through the flexible member and through said alined openings, and clamping bands carried by said bolt and adapted to bind the flexible tubular member to the collar carried by the second-mentioned shaft member to provide a flexible coupling for the two shafts.

1,458,895. LUBRICATING DEVICE. HARVEY C. SHAMBLIN, Miami, Okla. Filed July 6, 1921. Serial No. 482,735. 3 Claims. (Cl. 184—56.)

3. A lubricating device including a conduit, a reservoir formed with an outlet end connected to said conduit,

said reservoir being adapted to receive a lubricating fluid which will drop across said conduit, said conduit being adapted to have a current of air passing through its length whereby the flow of lubricant into said conduit will be intersected by the flow of air thereby surcharging



the latter with lubricant, and means within said conduit and adjacent the point of connection of the reservoir therewith for increasing the velocity of the flow of air through said conduit and at a point underlying the outlet end of said reservoir.

1,458,896. CLOTH-LAYING MACHINE. GEORGE SOVLIAN, Brooklyn, N. Y., assignor of one-fourth to Nathan Moss, New York, N. Y. Filed Nov. 18, 1920. Serial No. 424,893. 5 Claims. (Cl. 270—31.)

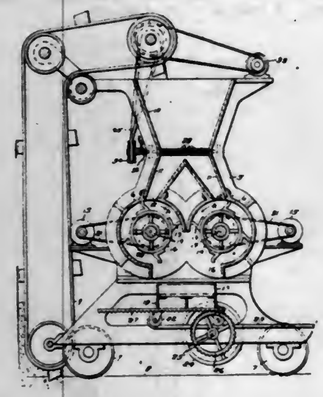


1. A cloth laying machine comprising a supporting table, a carriage mounted on the table, means for automatically moving the carriage back and forth across the table, said means continuously moving the carriage at a slow rate of speed adjacent each end of the table and at a high rate of speed intermediate the ends, a gripping member at each end of the table for gripping the respective ends of a pile of laid cloth, and laying bars on the carriage for forcing the looped ends of the cloth into the respective gripping members.

5. A cloth laying machine comprising a table, a carriage arranged on the table adapted to be moved back and forth thereon within certain limits, means on the carriage for laying successive layers of cloth to produce a pile, and a clamping structure arranged to engage each end of said pile, each of said clamping structures comprising a clamping plate and a plurality of pointed members extending through said plate adapted to engage said cloth for preventing displacement thereof.

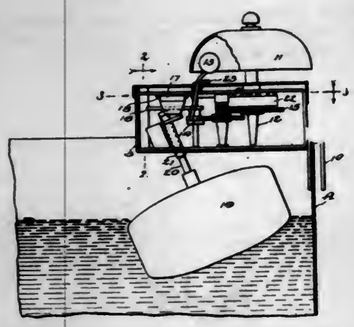
1,458,897. MOLDING MACHINE. JOSEPH STONE and BEN G. PERRY, Bessemer, Ala. Filed June 1, 1922. Serial No. 565,101. 3 Claims. (Cl. 22—36.)

1. In combination a wheeled frame, a pair of fixed cylinders thereon, a pair of rotative elements in said cylinders, a sand hopper above said cylinders delivering sand into said cylinders, said cylinders having openings at their inner and lower sides, a trackway upon the frame



and a flask carrier mounted upon the trackway for movement to bring it into and out of operative position with respect to said cylinders.

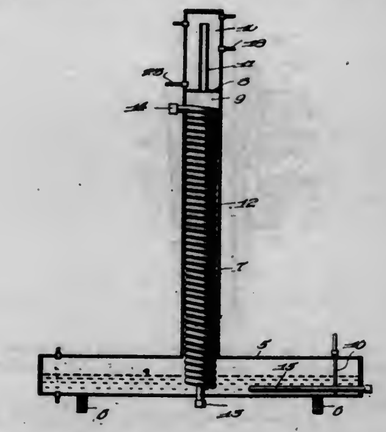
1,458,898. DRIP-PAN ALARM. ANTHONY WALLACE, New York, N. Y. Filed Nov. 17, 1922. Serial No. 601,510. 2 Claims. (Cl. 116—111.)



1. A drip pan alarm including a casing having means to mount the same on a drip pan, an audible alarm supported by said casing, said alarm including a clock train and pallet, a lateral arm rigid with the pallet, a gravity latch plate hinged at one end in the casing above side arm and having a downwardly directed end normally disposed in front of the path of vibration of said arm to prevent movement of the arm, a bearing in the casing beneath the latch plate, and a float below the casing and having a stem extending through said bearing and adapted to engage said latch plate and disengage the same from said lateral arm with the rising of the float.

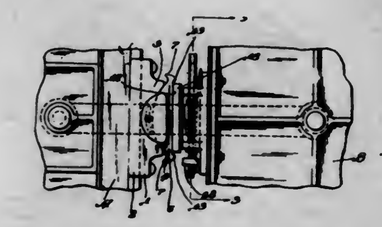
1,458,899. REFRIGERATING APPARATUS. HARRY W. WOLFE, Philadelphia, Pa. Filed Oct. 26, 1921. Serial No. 510,461. 6 Claims. (Cl. 183—32.)

1. In apparatus of the character set forth, the combination with a hollow base, of a condensing tower mounted thereon and having an open bottom in open communication with the upper portion of the base, means for subjecting the tower to the action of a cooling medium,



an oil separating chamber, and a stand pipe connecting the upper portion of the separating chamber with the upper portion of the condensing tower.

1,458,900. CHAFING IRON. FELIX ZYH, Chicago, Ill. Filed Apr. 14, 1922. Serial No. 552,732. 4 Claims. (Cl. 213—3.)



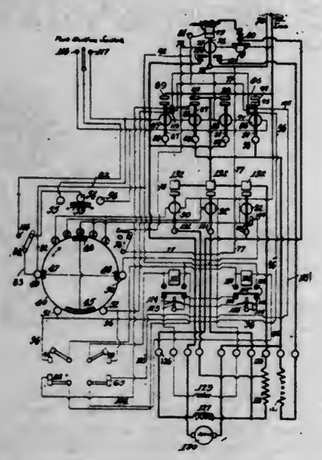
1. In a chafing iron for railroad rolling stock, a tender carried section provided with a concave forward surface, an intermediate section provided with a convex surface engaging said concave surface, said surfaces being curved on a horizontal arc and mounted for limited lateral rocking movement relative to each other, said intermediote member provided with a flat forward side, and an engine carried abutment plate abutting said flat side and adapted to move vertically relative to the intermediate member.

1,458,901. BATTERY TERMINAL. ALVIN E. BUCHENBERG, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 4, 1918. Serial No. 226,659. 1 Claim. (Cl. 173—259.)



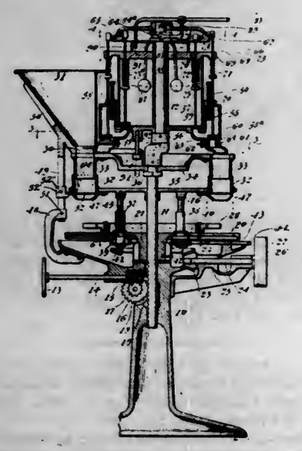
An article of manufacture comprising a tube, one end portion of which is adapted to receive a conductor, the other end portion of which is tapered on its exterior adapting it to fit into a tapered socket and internally screw threaded for the reception of a binding screw.

1,458,902. CONTROLLER FOR REVERSING MACHINES. EDWARD L. DUNN, Worcester, Mass., assignor by mesne assignments, to Merchants National Bank, Worcester, Mass., a Corporation of Massachusetts. Filed July 20, 1918. Serial No. 245,878. 14 Claims. (Cl. 172—240.)



1. The combination with a machine, of an electric motor connected with the machine for operating it, a motor controller operated by the machine, a series of accelerating magnets, means operated by the controller for bringing said magnets into action one after the other, a switch connected with the last one to close as the stroke proceeds, and connections to said switch for feeding it and its motor accelerating magnet through the controller.

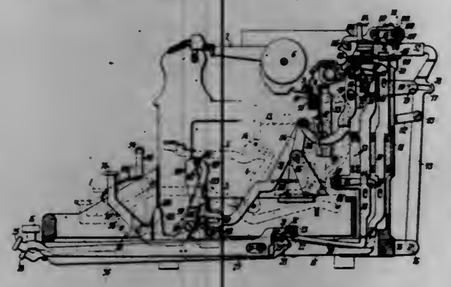
1,458,903. CAN-FILLING MACHINE. AUGUST HOLMQUIST, Sr., Hoopeston, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1918. Serial No. 241,921. 54 Claims. (Cl. 226—96.)



1. In a machine for filling cans, means for measuring a quantity of one material and discharging the same into a

can, and means for measuring a quantity of other material and discharging the same through the body portion of said first-named measuring means into the can.

1,458,904. TYPEWRITING MACHINE. ALFRED G. F. KUBOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 6, 1920. Serial No. 378,784. 27 Claims. (Cl. 197—177.)



1. In a typewriting machine, the combination with a traveling carriage, of tabulating means therefor comprising a series of column-stops on the carriage, each of said column-stops being selectively settable to a plurality of effective positions, and a counter-stop to co-operate with effectively-positioned column-stops, said counter-stop having a uniform throw.

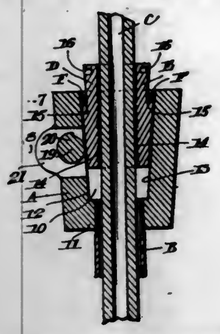
1,458,905. FOOT-CONTROL SNARE CONTROL FOR SNARE DRUMS. ULYSSES G. LEEDY, Indianapolis, Ind., assignor to Leedy Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 11, 1921. Serial No. 483,790. 7 Claims. (Cl. 84—415.)



1. The combination with a snare drum of a shiftable mounting for one end of the snares whereby the snares may be withdrawn from or tensioned upon the drum head, a pedal, means for supporting the pedal, and a connection between the pedal and the shiftable snare holder, whereby the snares may be foot controlled.

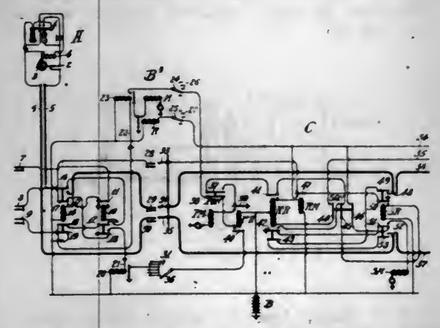
1,458,906. SAFETY CLAMP FOR DIAMOND-DRILL RODS. NAPOLEON WILFRED MORISETTE, Coleman Township, Ontario, Canada. Filed Aug. 3, 1922. Serial No. 579,449. 3 Claims. (Cl. 24—263.)

1. A clamp of the character described comprising a casing having a threaded neck designed to engage the top of the casing of a diamond drill rod, the diamond drill rod being designed to pass through the casing, bevel faces formed on the inner side of the casing, a pair of bevel jaws mounted in the casing and designed to grip the drill rod, and means for limiting the outward movement



of the said jaws, the said means comprising a spring fork extending transversely through the casing and shoulders on the jaws designed to engage the fork.

1,458,907. AUTOMATIC TELEPHONE SYSTEM. GEORGE E. MUELLER, Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, a Corporation of Illinois. Filed June 25, 1908, Serial No. 440,309. 57 Claims. (Cl. 179—18.)



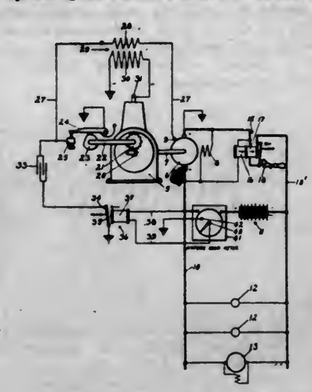
1. A selector for telephone systems comprising a metallic circuit, a pair of relays bridged to opposite sides of said circuit, one of said relays being relatively slow to release its armature, a second relay slow to release its armature jointly controlled by said first mentioned relays, and means for producing rapid intermittent interruptions in said circuit.

1,458,908. IGNITION SYSTEM. HARRY R. PATTERSON, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Aug. 28, 1919. Serial No. 320,374. 5 Claims. (Cl. 290—35.)

1. In a battery charging system comprising an internal combustion engine having an ignition circuit including an interrupter and a condenser connected across the interrupter contacts, a generator and a storage battery, the method of controlling the amount of charge given to said battery which consists in integrating the current delivered to said battery and when its integrated value reaches a predetermined amount of successively rendering said condenser and interrupter ineffective.

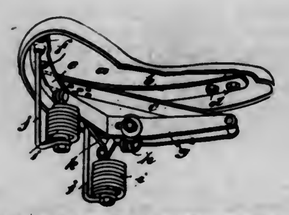
3. In combination an internal combustion engine, an ignition system therefor including an interrupter and a condenser connected thereto, a generator operatively

connected to said engine, a storage battery adapted to be charged by said generator and means including an ampere



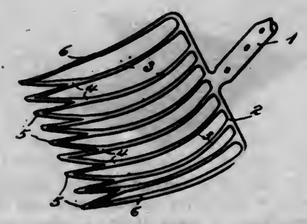
hour meter in circuit with said battery for opening the circuit of said condenser.

1,458,909. SADDLE OR SEAT OF MOTOR CYCLES, CYCLES, AND THE LIKE. ROBERT WALKER SMITH, Redditch, England. Filed June 30, 1920. Serial No. 393,159. 1 Claim. (Cl. 208—15.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



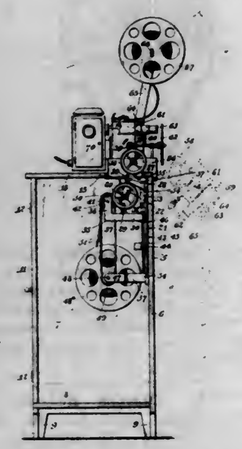
A saddle, a longitudinal reinforcing strip thereunder, having its front end secured thereto, a transverse reinforcing strip secured under the rear portion of the saddle, the rear end of the longitudinal strip being secured to the transverse strip, a leaf spring having its rear end secured to the first named strip, an underframe to the front end of which the front end of said spring is attached, strut members having their upper ends secured to said transverse strip and tension springs connecting the rear portion of the underframe to the lower portions of said strut members.

1,458,910. POTATO FORK. WILHELM TONKE, Mittelsteine, Germany, assignor to Firm Roeder & Co., Hanover, Germany. Filed Sept. 22, 1913, Serial No. 791,092. Renewed Apr. 7, 1923. 2 Claims. (Cl. 294—49.)



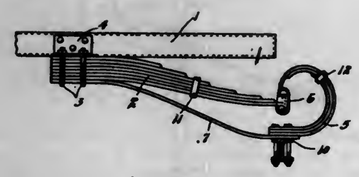
1. In a potato shovel in combination, a transverse bar and slightly curved slender prongs extending substantially at right angles to said bar parallel to one another, the ends of said prongs being bifurcated and adjoining arms of said prong ends being united to form V-shaped points.

1,458,911. MOVING-PICTURE MACHINE. WILLIAM J. BLANKENBERG, Buffalo, N. Y. Filed June 30, 1920. Serial No. 392,936. 16 Claims. (Cl. 88—17.)



1. A moving picture machine, comprising a cabinet having a hinged top, mechanism wholly confined within said cabinet and having a part thereof adjustable to project outwardly from said cabinet when said top is open and to rest upon said top when closed.

1,458,912. SHOCK ABSORBER. EMIL R. DRAVER, Richmond, Ind. Filed Oct. 28, 1921. Serial No. 511,009. 6 Claims. (Cl. 267—46.)

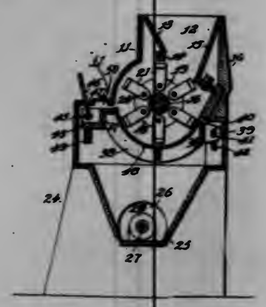


1. The combination with the body, frame and axle structure of a vehicle, of a cantilever spring anchored to said frame with its free end extended toward the axle and making an angle approximating a right angle therewith, and a curved leaf spring rigidly secured to said axle extending upwardly therefrom and having its free end connected to the free end of said cantilever spring, said latter spring lying in a plane extending at approximately a right angle to the axle.

1,458,913. NONRECRYSTALLIZED REFRACTORY MATERIAL. WILLIAM A. FARISH, Buffalo, N. Y., assignor to Buffalo Refractory Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 9, 1920. Serial No. 415,871. 7 Claims. (Cl. 106—9.)

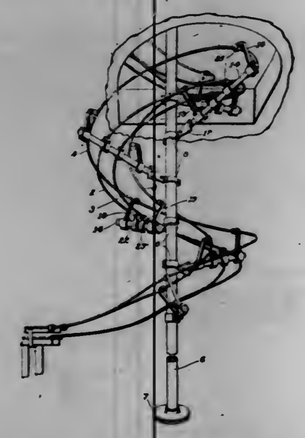
1. A non-crystallized refractory material for heat resisting articles comprising silicon carbide, crystalline graphite, a carbonizing binder, and sand.

1,458,914. CRUSHER. EDWARD H. FRICKEY, St. Louis, Mo., assignor to Dixie Machinery Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 30, 1919. Serial No. 314,245. 2 Claims. (Cl. 83—11.)



1. A crusher of the class described comprising a casing having an opening with a closure therefor, rotary beaters in said casing, a frame in said casing, removable supports at the ends of said frame, a screen supported freely on said frame and adapted to be removed through said casing opening when said frame is lowered by the removal of said supports.

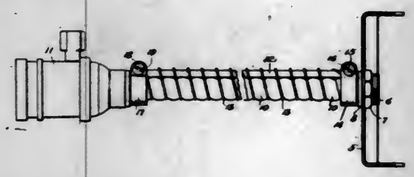
1,458,915. CHUTE. CHARLES MARSHALL MUMFORD, Newton Center, Mass. Filed Aug. 10, 1921. Serial No. 491,126. 20 Claims. (Cl. 193—12.)



1. In an apparatus of the character described, the combination of a plurality of rails extending substantially parallel with and closely adjacent to each other and cooperating to form a chute, and means supporting said rails for adjustment to vary the relationship between them.

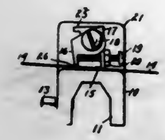
1,458,916. ADJUSTABLE ARMORED BRACKET. ARCHIBALD T. SAMPSON, Lynn, Mass., assignor to Sampson Axcess System, Inc., Lynn, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 166,813, filed May 7, 1917. This application filed Mar. 23, 1918, Serial No. 224,395. Renewed Aug. 21, 1919. Serial No. 319,044. 11 Claims. (Cl. 248—7.)

7. A supporting arm or bracket of the kind described, comprising a spirally formed flexible metallic conduit, a reenforcing member extending parallel to, exterior of and substantially throughout the length of said flexible member, means for binding said reenforcing member intermediate its ends to said flexible conduit, and means for anchoring said reenforcing member at each end of said flexible conduit, whereby said flexible conduit is longitudinally strengthened.



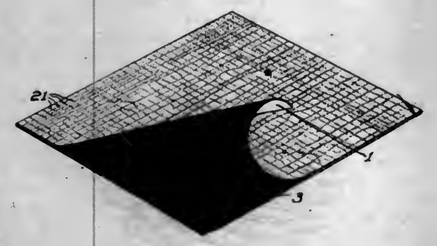
9. A supporting arm or bracket, comprising a flexible conduit, a lengthwise reinforcing member therefor, means for anchoring the reinforcing member at each end of the conduit, and yielding binding means for holding the reinforcing member and conduit in engagement with each other, and constructed and arranged to permit relative frictional movement of said reinforcing member and conduit.

1,458,917. YARN CLEANER. ANTON C. BERGREN, Jamestown, N. Y. Filed Aug. 20, 1921. Serial No. 493,940. 3 Claims. (Cl. 28—64.)



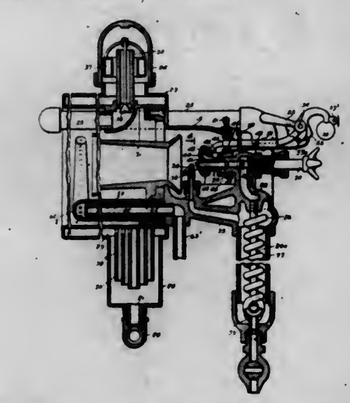
1. In a device of the class described, a frame and means for attaching said frame to a winding frame, a fixed portion of said frame for the yarn to run over, a slub catcher having two independently movable leaves hinged on said frame above said fixed portion to shut thereonto, and means on one of said leaves to cause the other leaf to shut onto the yarn and clamp it against said fixed portion when said first named leaf is engaged by the slub.

1,458,918. COMPOSITE FABRIC. GEORGE OTIS COOMBS, Providence, R. I. Filed May 5, 1921. Serial No. 466,887. 6 Claims. (Cl. 154—52.)



6. As an article of manufacture, a composite reinforced stiffened fabric for making boxes and other purposes, comprising a paper layer, a cheap paper pulp board substantially thicker than the paper layer, an adhesive layer between and securing the paper layer and stiffening board together, and a series of reinforcing or strengthening unspun fibres extending in general parallel relation between the paper layer and the stiffening board and embedded in the adhesive layer.

1,458,919. OIL-BURNING ATTACHMENT. ACHILLE KAISERMAN and ALBERT ZAUGG, Detroit, Mich. Filed Apr. 15, 1921. Serial No. 461,515. Renewed Apr. 5, 1923. 16 Claims. (Cl. 158—28.)



16. A burner of the class described, including a fuel nozzle, a nozzle discharging adjacent to the fuel nozzle and adapted to connect with a supply of atomizing fluid, a swingable valve at the outlet of said nozzle, a lever connected with said valve for adjusting the same, a spring acting on said lever, means to vary the adjusting action of the lever on said valve, and means to act on said spring to vary the effect of the spring on the lever.

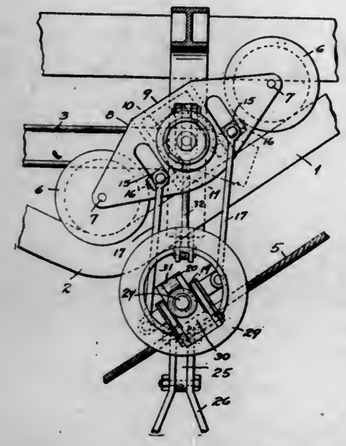
1,458,920. ROAD-BEARING METER. FREDERICK J. TROLL, Baltimore, Md., assignor to The Loadometer Company, a Corporation of Delaware. Filed Oct. 25, 1919. Serial No. 333,315. 19 Claims. (Cl. 265—47.)



1. A manually portable road bearing pressure meter, comprising a portable base of short vertical dimension, a weight supporting member with guiding means in the base, a resilient member within the base beneath said supporting member, the same having sufficient resistance to support the wheel of a loaded truck, and means for indicating the weight on said member.

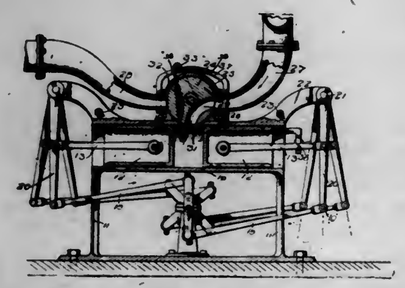
1,458,921. ROPEWAY CAR. YUSUKE TAMAMURA, Tokyo-fu, Japan. Filed Dec. 27, 1922. Serial No. 609,361. 10 Claims. (Cl. 104—208.)

2. A ropeway car, comprising a carriage, a clip, a receptacle, means for interconnecting the said members in such a way that they will adjust themselves relatively to each other to maintain the internal equilibrium as the external conditions vary, said means including a main shaft about which all said three members are angularly movable and a quadrilateral interconnecting the three members, and means automatically operative to



effect gripping and releasing of the hauling rope by the clip, including wheels in the carriage and an auxiliary rail disposed in the path of the carriage wheels.

1,458,922. HYDRAULIC MOTOR. RUBÉN RIVERA, Sonsonate, Salvador. Filed June 12, 1919. Serial No. 303,801. 1 Claim. (Cl. 121—100.)



In a hydraulic motor, a valve box having intake and exhaust openings, a valve rotatable in said valve box and having a fluid opening for communication with said valve box openings, a valve operating shaft projecting from said valve, an arm secured to and projecting upwardly from the valve shaft, an arm loosely mounted on the valve shaft and depending therefrom, a spring connecting the free ends of said arms, a piston actuated valve slide movable below said valve box, said valve slide being pivotally connected adjacent one end to the lower end of the loose valve arm, and an inverted U-shaped frame carried by the said end of the slide and upstanding alongside the valve box, said frame having laterally projecting pins positioned at relatively opposite sides of the first mentioned valve arm to engage and shift the latter from intake to exhaust position and vice versa, and said valve box having spaced laterally projecting pins to receive the said valve arm thereagainst and form stops for said valve arm in the intake and exhaust positions.

Patents Nos. 1,458,923 to 1,459,709.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of June 19, 1923.

Trade-Marks	142	No. 169,435 to No.	169,576,	inclusive.
T. M. Renewals	6			
Reissues	6	No. 15,628 to No.	15,633,	inclusive.
Designs	29	No. 62,531 to No.	62,559,	inclusive.
Patents	787	No. 1,458,923 to No.	1,459,709,	inclusive.
Total	970			

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) Nusbaum patent, 1,258,438, for cheese blend, valid and infringed. *P. E. Sharpless Co.* v. *Crawford Farms*, 287 Fed. Rep., 655.

(U. S. C. C. A. Ohio.) Nesbitt patent, 1,297,226, for separable core used in building automobile tires, *Held* infringed as to certain claims and not infringed as to others. *Lauritzen* v. *Banner Mach. Co.*, 287 Fed. Rep., 692.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,406,808, O. Antonelli, Motion-picture apparatus, decided May 8, 1923, claim 7.

Pat. 1,426,465, E. G. Danielson, Variable resistance, decided Apr. 28, 1923, claims 1, 2, 3, 4, 13, and 14.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, June 8, 1923.*

Reed, Walsh & Lange, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Duffy-Mott Company, Inc., of No. 502 West Twenty-fifth Street, New York, N. Y., to effect the cancellation of trade-mark registration No. 28,448, registered June 23, 1896, to Reed, Walsh & Lange, of Nos. 65 and 67 South Water Street, Chicago, Ill., and the notice of such proceeding sent by registered mail to said Reed, Walsh & Lange at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Reed, Walsh & Lange, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

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In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

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File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

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Condition of Applications Under Examination at Close of Business June 8, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,094; Trade-Mark Division, 3,918; Oldest new case, June 20, 1922; oldest amended, June 6, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Tying, Pants, and Flowers.	Sept. 1	Sept. 9	1,214
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	July 29	Sept. 12	1,548
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 6	June 6	1,869
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 8	*Feb. 7	1,434
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	July 3	July 29	1,381
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Sept. 9	*Jan. 15	1,720
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Aug. 24	Nov. 17	2,584
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Jan. 2	*Mar. 1	1,479
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Sept. 15	*May 1	317
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Aug. 18	Sept. 28	1,458
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Nov. 28	Dec. 6	1,011
322	12. PIERCE, P. P., Machine Elements	Oct. 24	Dec 9	1,477
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Aug. 15	*Feb. 20	1,270
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	July 19	*Apr. 13	1,207
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 16	Oct. 6	2,080
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Aug. 8	Aug. 8	2,471
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Aug. 8	Nov. 20	1,473
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	July 14	July 25	2,017
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Aug. 30	*Feb. 8	788
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 20	Nov. 15	2,017
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 31	*Jan. 6	1,050
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Sept. 2	Dec. 1	640
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	July 27	June 12	854
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Aug. 4	Oct. 11	1,424
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 26	*Jan. 15	490
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Aug. 12	Sept. 5	954
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 11	Aug. 17	2,136
225	28. BENSON, A. R., Internal-Combustion Engines	Sept. 8	Oct. 11	1,530
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Aug. 28	Dec. 18	711
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Sept. 1	*Jan. 8	1,905
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 9	Aug. 15	1,723
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 18	Oct. 2	1,328
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Coupling.	Sept. 19	Sept. 25	1,633
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Snow Service; Track Sanders; Vehicle Fenders.	Nov. 28	*Jan. 9	800
82	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 22	*Mar. 8	1,074
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Nov. 18	Oct. 28	1,954
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 16	Aug. 3	1,939
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Aug. 14	July 13	1,887
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 29	July 21	1,498
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	Aug. 14	*Jan. 20	2,077
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Nov. 16	Oct. 14	1,013
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Sept. 15	July 10	1,706
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 20	Sept 21	1,325
283	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Aug. 3	*Jan. 11	1,246
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Aug. 3	Oct. 11	1,536
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 11	Sept. 29	1,412
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time Controlling Mechanism.	July 25	Dec. 26	1,227
118	48. ROEPER, O. B., Electricity Conductors; Electricity, General Applications	July 15	July 17	2,306
383	49. EDINBURG, F. P., Chain-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Sept. 23	Aug. 15	659
102	DESIGNS: C. O. MARKHAM (Acting)	Sept. 9	*Jan. 8	2,645
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	*Feb. 10	*Mar. 28	3,888
	{Labels and Prints	*May 28	*May 31	30

DECISIONS IN PATENT AND TRADE-MARK CASES.

U. S. Circuit Court of Appeals—Fifth Circuit.

TRAPPEY ET AL. *v.* MCILHENNY CO.

Decided May 23, 1923.

[281 Fed. Rep., 23.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—CANCELLATION OF REGISTRATION DOES NOT EXTINGUISH RIGHTS WHICH THE REGISTRATION DID NOT GIVE.

Cancellation of the registration of a trade-mark, at the instance of a competitor, as a geographical name does not preclude the registrant from asserting the exclusive right to the use of the name to designate its product to which the name is applied.

2. SAME—LONG USE MAY GIVE EXCLUSIVE RIGHT IN GEOGRAPHICAL NAME.

Where one has marked his goods with a geographical name for so long a time that they have become known in the market by that name, the use of that name to describe goods of a subsequent maker will be restrained as unfair competition.

3. SAME—UNFAIR COMPETITION—ACTUAL INTENT TO MISLEAD NOT ESSENTIAL.

To warrant relief against unfair competition, an actual intention to mislead the public need not be proved; but it is enough if such result is probable.

4. SAME—UNFAIR COMPETITION TO USE TRADE NAME OF ANOTHER.

That one's name is added to the trade name of another is not a sufficient distinction to prevent a probable deception.

5. SAME—COMPLAINANT HELD ENTITLED TO PROTECTION IN USE OF "TABASCO" AS TRADE NAME.

Complainant and its predecessor for nearly 30 years was the sole manufacturer of a pepper sauce sold under the trade name "Tabasco," which became widely known to users as designating complainant's product. *Held* that the use by defendant on the labels of a pepper sauce made and sold by him of the name "Tabasco," in a manner calculated to lead purchasers to believe that it was complainant's product, constituted unfair competition, against which complainant was entitled to an injunction.

APPEAL from the District Court of the United States for the Eastern District of Louisiana; Rufus E. Foster, judge.

Suit in equity by the McIlhenny Company against B. F. Trappey and others. Decree for complainant, and defendants appeal. Affirmed.

Mr. E. Howard McCaleb, Mr. William L. Symons, and *Mr. Emmet Alpha* for the appellants.

Mr. Walker B. Spencer, Mr. Philip S. Gidiere, Mr. Esmond Phelps, Mr. Joseph S. Clark, and *Mr. Edward S. Rogers* for the appellee.

Before WALKER, BRYAN, and KING, Circuit Judges.

KING, *Cir. J.:*

This appeal is prosecuted to reverse a decree of the United States District Court for the Eastern District of Louisiana, enjoining the appellants (defendants below) from using the word "Tabasco" to describe a pepper sauce made by them. The facts, briefly stated, show that about 1850, Col. Maunsell White began growing in Louisiana certain peppers coming from Mexico, which were called Tabasco peppers. From these peppers he made a pepper sauce known as "Maunsell White Sauce," and sometimes as "Tabasco Pepper-Sauce." These sales appear to have ceased by the year 1867.

Beginning with the year 1868, E. McIlhenny began the manufacture and sale of a red pepper sauce from peppers supposed to have come from Tabasco, Mexico, which he labeled "Tabasco Pepper-Sauce"; the word "Tabasco" being separated from the words "Pepper Sauce" and the condiment being styled "Tabasco." This sauce was manufactured by McIlhenny, and after his death by his wife and children, by whom the complainant company was formed, which has succeeded to this continuous business, its rights and goodwill.

The defendant, B. F. Trappey, was for years employed as a blacksmith on the plantation of the McIlhennys on which these peppers were grown. In this way he became acquainted with the formula for making the sauce, and was well aware of the large business which the McIlhennys had built up in the manufacture and sale of this sauce.

Until the year 1896, for nearly 30 years, the McIlhennys conducted this manufacture and sale without interference as to the name "Tabasco," and largely extended the same, and the evidence warrants the conclusion that by the efforts of the McIlhennys this sauce, under the name of "Tabasco," became widely known and used, so much so that the consumer, in asking for it, called for "Tabasco," and by such designation meant the "Tabasco" manufactured by the McIlhennys. They and their successors in title have continuously pursued and are still carrying on such manufacture and sale.

The district court found as facts that plaintiff and its predecessors in title have manufactured a red pepper sauce, which has been put on the market and extensively advertised and sold by them under the trade-mark "Tabasco" for over 50 years; that as far back as 1850 a red pepper sauce was made by Col. Maunsell White from peppers known as "Tabasco" and sold to the retail trade at New Orleans under that name; that in 1851 advertisements of real extract of red Tabasco peppers appeared in the Daily Delta, a New Orleans newspaper, and similar advertisements and sales of pepper sauce under the name "Tabasco" occurred at various times up to 1867; that it was not shown that any persons except the McIlhennys used the word "Tabasco" thereafter for many years to identify their pepper sauce; that, conceding its former use, it had been abandoned by all persons when the McIlhennys adopted it; that the word "Tabasco," as applied to pepper sauce, indicates origin of manufacture, and the sauce to which it relates is the sauce made by E. McIlhenny, of New Iberia, La., and his successors in title.

[1] Appellants insist that the predecessors of McIlhenny Company registered the word "Tabasco" as a trade-mark under the Federal statutes, and such registration had been canceled on the ground that Tabasco was a geographical term, and could not therefore be properly registered as a technical trade-mark, such cancellation being approved by the Court of Appeals in the District of Columbia (*McIlhenny Co.* v. *New Iberia, etc., Co.*, 34 App. D. C., 430; *McIlhenny Co.* v. *Trappey*, 51 App. D. C., 216; 277 Fed., 615; 297 O. G., 800); that this action is conclusive against the right of appellee to the exclusive use of the word "Tabasco." This contention was considered by this court in *McIlhenny Co.* v. *Gaidry* (253 Fed., 613, 616; 165 C. C. A., 239, 242), where it is said:

> The cancellation, on the opposition of a competitor, of the registration by the defendant's predecessor of the word "Tabasco" as a trade-mark under the Federal Trade-Mark Act of February 20, 1905 (33 Stat., 724, c. 592 [9 U. S. Comp. Stat. Ann. 1916, section 9485 et seq.]), does not stand in the way of the assertion by the defendant that it has the exclusive right which it claims in this suit. That act, which made provision for the registration of trade-marks "used in commerce with foreign nations, or among the several States, or with Indian tribes," and which conferred certain benefits upon registrants thereunder, did not purport to make registration under it the prerequisite to the acquisition or continued existence of an exclusive right to use a word or symbol as a trade-mark. If the defendant's predecessor had the exclusive right which the defendant asserts in this suit, that right was not extinguished by the cancellation of the registration mentioned. If the trade-mark exists, it exists independently of the registration. The cancellation of a registration does not extinguish a right which the registration did not confer. (*Edison* v. *Thomas A. Edison, Jr., Chemical Co.*, C. C., 128 Fed., 1013; *Capewell Horse Nail Co.* v. *Mooney*, 172 Fed., 826; 97 C. C. A., 248.) Neither of the incidents relied upon by the plaintiff is inconsistent with the assertion in good faith by the defendant that it has the exclusive right to use the word "Tabasco" in connection with pepper-sauce.

We adhere to this ruling. After the complainant and its predecessors had conducted its business for many years, and had built up a large demand for "Tabasco," the defendant began the vending of a pepper sauce made from similar peppers to those used by the complainant. The name applied to this sauce was Tabasco—Pepper-Sauce. The word "Tabasco" was printed on a line alone, with a heavy dot or circle before and after the word, thus separating it from the words "Pepper-Sauce," on the line below. It is evident that the purpose was to designate the sauce by the single word "Tabasco." This, whether intended or not, was calculated to mislead the consumer into believing that he was receiving the sauce manufactured by complainant, and to take advantage of the trade which complainant and its predecessors in title had built up by years of effort.

While it is true that geographical names generally cannot be appropriated as trade-marks—

> the rule is, that a subsequent trader may not use even common terms or symbols, his own name, or a geographical or descriptive word, in such a manner as to cause his goods to be known in the market by the same name as that by which a prior trader's similar goods are already known and called for by the purchasing public. The trade name for the goods of a particular trader may not be used by another as the trade name for his similar rival goods. The subsequent trader, however, may use such terms descriptively, to tell the truth about his goods, describing them, telling by whom they were manufactured and other like matters, because such terms are publici juris in their primary sense, and cannot be exclusively appropriated by any one. But use, as a name or title, is not a permissible use, because by reason of the acquired meaning such a use carries with it a false representation that the goods of that name are those of the prior trader. (38 Cyc. 722, 771, 772.)

[2] Where one has marked his goods with a geographical name for so long a time that they have become known in the market by that name, the use of that name to describe goods of a subsequent maker will be restrained as unfair competition. (*Wotherspoon* v. *Currie*, L. R. 5 H. L., 508; *Thompson* v. *Montgomery*, L. R. 41 Ch. D., 35; *American Waltham Watch Co.* v. *United States Watch Co.*, 173 Mass., 85; 53 N. E., 141; 43 L. R. A., 826; 73 Am. St. Rep., 263; *Baglin* v. *Cusenier Co.*, 221 U. S., 580; 31 Sup. Ct., 669; 55 L. Ed., 863; 169 O. G., 449.) The Waltham Watch case is instructive on this point. In that case an injunction was sought—

> to enjoin the defendant from advertising its watches as the "Waltham Watch" or "Waltham Watches," and from marking its watches in such a way that the word "Waltham" is conspicuous. The plaintiff was the first manufacturer of watches in Waltham, and had acquired a great reputation before the defendant began to do business. It was found at the hearing that the word "Waltham," which originally was used by the plaintiff in a merely geographical sense, now, by long use in connection with the plaintiff's watches, has come to have a secondary meaning as a designation of the watches which the public has become accustomed to associate with the name. * * * The defendant's position is that, whatever its intent and whatever the effect in diverting a part of the plaintiff's business, it has a right to put its name and address upon its watches; that to require it to add words which will distinguish its watches from the plaintiff's in the mind of the general public is to require it to discredit them in advance; and that, if the plaintiff by its method of advertisement has associated the fame of its merits with the city where it makes its wares, instead of with its own name, that is the plaintiff's folly, and cannot give it a monopoly of a geographical name, or entitle it to increase the defendant's burdens in advertising the place of its works.
>
> In cases of this sort, as in so many others, what ultimately is to be worked out is a point or line between conflicting claims, each of which has meritorious grounds and would be extended further were it not for the other. (*Ferrule Co.* v. *Hills*, 159 Mass., 147, 149, 150; 34 N. E., 85.) * * * It is desirable that the defendant should be free to manufacture watches at Waltham, and to tell the world that it does so. The two desiderata cannot both be had to their full extent, and we have to fix the boundaries as best we can. On the one hand, the defendant must be allowed to accomplish its desideratum in some way, whatever the loss to the plaintiff. On the other, we think the cases show that the defendant fairly may be required to avoid deceiving the public to the plaintiff's harm, so far as is practicable in a commercial sense. It is true that a man cannot appropriate a geographical name; but neither can he a color, or any part of the English language, or even a proper name to the exclusion of others whose names are like his. Yet a color in connection with a sufficiently complex combination of other things may be recognized as saying so circumstantially that the defendant's goods are the plaintiff's as to pass the injunction line. (*New England Awl & Needle Co.* v. *Marlborough Awl & Needle Co.*, 168 Mass., 154, 156; 46 N. E., 386.) So, although the plaintiff has no copyright on the dictionary, or any part of it, he can exclude a defendant from a part of the free field of the English language, even from the mere use of generic words, unqualified and unexplained, when they would mislead the plaintiff's customers to another shop. (*Reddaway* v. *Banham*, [1896] A. C., 199.) So the name of a person may become so associated with his goods that one of the same name coming into the business later will not be allowed to use even his own name without distinguishing his wares. (*Brinsmead* v. *Brinsmead*, 13 Times L. R., 3; *Reddaway* v. *Banham*, [1896] A. C., 199, 210. See *Singer Mfg. Co.* v. *June Mfg. Co.*, 163, U. S., 169, 204; 16 Sup. Ct., 1002; 75 O. G., 1703; *Cream Co.* v. *Keller*, 85 Fed., 643.) And so, we doubt not, may a geographical name acquire a similar association with a similar effect. (*Montgomery* v. *Thompson*, [1891] A. C., 217.) Whatever might have been the doubts some years ago, we think that now it is pretty well settled that the plaintiff, merely on the strength of having been first in the field, may put later comers to the trouble of taking such reasonable precautions as are commercially practicable to prevent their lawful names and advertisements from deceitfully diverting the plaintiff's custom. (*Amer. Waltham Watch Co.* v. *United States Watch Co.*, 173 Mass., 85, 86, 87; 53 N. E., 141, 142 (43 L. R. A. 826, 73 Am. St. Rep. 263).)

This is true, even if the name be such that it could not be registered as a technical trade-mark. (*Bissell Chilled Plow Works* v. *T. M. Bissell Plow Co.*, C. C., 121 Fed., 357, 365.) This has been well stated in the United States Circuit Court of Appeals for the Sixth Circuit by Lurton, Circuit Judge, as follows:

> But when the word is incapable of becoming a valid trade mark, because descriptive or geographical, yet has by use come to stand for a particular maker or vendor, its use by another in this secondary sense will be restrained as unfair and fraudulent competition, and its use in its primary or common sense confined in such a way as will prevent a probable deceit by enabling one maker or vendor to sell his article as the product of another. (*Lawrence Mfg. Co.* v. *Tennessee Mfg. Co.*, 138 U. S., 537, 549; 11 Sup. Ct., 396; 34 L. Ed., 997; 55 O. G., 1528; *Chemical Co.* v. *Meyer*, 139 U. S., 540; 11 Sup. Ct., 625; 35 L. Ed., 247; 55 O. G., 287; *Mill Co.* v. *Alcorn*, 150 U. S., 460; 14 Sup. Ct., 151; 37 L. Ed., 1144; 65 O. G., 1916; *Singer Mfg. Co.* v. *June Mfg. Co.*, 163 U. S., 169; 16 Sup. Ct., 1002; 41 L. Ed., 118; 75 O. G., 1703; *Elgin Nat. Watch Co.* v. *Illinois Watch Case Co.*, 179 U. S., 665; 21 Sup. Ct., 270; 45 L. Ed., 365; 94 O. G., 755; *Bennett* v. *McKinley*, 13 C. C. A., 25; 65 Fed., 505.) (*Computing Scale Co.* v. *Standard Computing Scale Co.*, 118 Fed., 965, 967; 55 C. C. A., 459, 461.)

The basis of the right to prevent the use of an unregistered trade-mark is the recognition that—

> where a party has been in the habit of labeling his goods with a distinctive mark, so that purchasers recognize goods thus marked as being of his production, others are debarred from applying the same mark to goods of the same description, because to do so would in effect represent their goods to be of his production and would tend to deprive him of the profit he might make through the sale of the goods which the purchaser intended to buy. Courts afford redress or relief upon the ground that a party has a valuable interest in the good-will of his trade or business, and in the trade marks adopted to maintain and extend it. The essence of the wrong consists in the sale of the goods of one manufacturer or vendor for those of another. (*Canal* v. *Clark*, 13 Wall., 311, 322; *McLean* v. *Fleming*, 96 U. S., 245, 251; 13 O. G., 913; *Manufacturing Co.* v. *Trainer*, 101 U. S., 51, 53; 17 O. G., 1217; *Menendez* v. *Holt*, 128 U. S., 514, 520; 46 O. G., 971; *Lawrence Mfg. Co.* v. *Tennessee Mfg. Co.*, 138 U. S., 537, 546; 55 O. G., 1528.) (*Hanover Milling Co.* v. *Metcalf*, 240 U. S., 403, 412; 36 Sup. Ct., 357, 360; 60 L. Ed., 713; 224 O. G., 1407.)

This may be true of a geographical name:

> The name of a person or a town may have become so associated with a particular product that the mere attaching of that name to a similar product without more would have all the effect of a falsehood. (*Walter Baker & Co.* v. *Slack*, 130 Fed., 514.) An absolute prohibition against using the name would carry trade marks too far. Therefore the rights of the two parties have been reconciled by allowing the use, provided that an explanation is attached. (*Singer Mfg. Co.* v. *June Mfg. Co.*, 163 U. S., 169,200,204; *Brinsmead* v. *Brinsmead*, 13 Times L. R., 3; *Reddaway* v. *Banham*, [1896] A. C., 199, 210, 222; *Amer. Waltham Watch Co.* v. *United States Watch Co.*, 173 Mass., 85, 87; *Dodge Stationery Co.* v. *Dodge*, 145 Cal., 380.) Of course the explanation must accompany the use, so as to give the antidote with the bane. (*Herring, etc., Safe Co.* v. *Hall's Safe Co.*, 208 U. S., 554, 559; 28 Sup. Ct., 350, 352; 52 L. Ed., 616; 134 O. G., 1053.)

[3–5] That there was an actual intention to mislead the public need not be proved. It is enough if such result is probable. (*Bissell Chilled Plow Works* v. *T. M. Bissell Plow Co.*, C. C., 121 Fed., 357, 372, and the cases there cited; 38 Cyc., 773, 784.)

That one's name is added to the trade-name is not a sufficient distinction to prevent the probable deception. (38 Cyc., 792.)

That the sauce had been previously manufactured as "Tabasco Pepper-Sauce" does not, under the facts of this case, prevent the complainant from having acquired a trade name in the word "Tabasco." The proof shows that whatever manufacture had been had was quite restricted, that the maker had not used the word "Tabasco" as the trade name of his product, and that it had been abandoned. This left the field open to McIlhenny, who entered thereon, embarked in a wide introduction of this sauce as "Tabasco," built up a large business, and established the name as descriptive of this exclusive production during the business of many years. (*Deitsch et al.* v. *Geo. R. Gibson Co.*, C. C., 155 Fed., 383; *Raymond* v. *Royal Baking Powder Co.*, 85 Fed., 231; 29 C. C. A., 245.)

The appellants insist that, in a conversation had with John A. McIlhenny, representing the then proprietor of appellee's business, it was conceded that appellant Trappey had the right to use the word "Tabasco" to describe the sauce made by him, and that appellee is now estopped to deny such right. This conversation is denied by John A. McIlhenny. But, even if it be conceded to have taken place, we agree with the district court that no estoppel would arise therefrom, in view of the correspondence which followed soon after between the attorney for the McIlhennys and Trappey, in which the exclusive right to the use of the word "Tabasco" was insisted upon in their behalf.

The other points arising in this case are covered by the opinion of this court in *McIlhenny Co.* v. *Gaidry* (253 Fed., 613, 616; 165 C. C. A., 239). Upon the whole case, we think that the complainant was entitled to an injunction restraining the defendant from using the word "Tabasco" as the name, or as part of the name, of the sauce manufactured and sold by him. The injunction should go to the extent of preventing defendant from using the word "Tabasco" as the name or description of the sauce manufactured by him, but should not prevent his stating that the sauce is made from Tabasco peppers. (*Baglin* v. *Cusenier Co.*, 221 U. S., 580, 600; 31 Sup. Ct., 669; 55 L. Ed., 863; 169 O. G., 449.)

The decree granting the injunction in this case is affirmed, so far as it enjoins the appellants from using the word "Tabasco" as the name of the sauce manufactured by them, or in any manner to designate or describe said sauce, or from using the word "Tabasco" otherwise than to state that the sauce manufactured by appellants is made from Tabasco peppers, said statement to be made in such manner as clearly to distinguish the sauce made by appellants from that manufactured by appellee.

As thus modified, the decree of the district court is affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

855,179, P. Jenness, Carburetor, suit filed Jan. 4, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/276, *P. Jenness* v. *Stromberg Motor Devices Co.*

871,335, J. B. Blaw, Molds; 979,185, C. D. McArthur, Tunnel forms; 1,227,280, H. B. Loxterman, Mold forms, suit filed Jan. 3, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/275, *Blaw-Knox Co.* v. *P. McGovern, Inc.*

876,996, G. W. Pickard, Intelligence intercommunication by magnetic wave components, suit filed Dec. 29, 1922, U. S. D. C., S. D. N. Y., Doc. E 25/258, *Wireless Specialty Apparatus Co.* v. *Cut-*

ting & Washington Radio Corp. and Others. Order that the bill be taken as confessed as to defendant, Liberty Electric Corp.

958,478, W. E. Davey, Process of reinforcing trees, decree of District Court, Western District of Missouri affirmed, U. S. C. C. Appeals, 8th Cir., *Davey Tree Expert Co.* v. *K. M. McBeath.*

979,185. (See 871,385.)

1,001,260, O. Evinrude, Marine propulsion mechanism; 1,091,645, Steering compensator for rowboat motors, suit filed Apr. 14, 1923, U. S. D. C., E. D. Mich., Doc. 536, *Evinrude Motor Co.* v. *The Caille Bros. Co.*

1,091,645. (See 1,001,260.)

1,097,544, Goldberg & Goldberg, Garment bags, suit filed Jan. 9, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/335, *The Levy Chemical Co.* v. *Transparo Cloth Corp.* Same, suit filed Mar. 2, 1923, U. S. D. C., E. D. N. Y., Doc. 1230, *The Levy Chemical Co.* v. *Roseth Corp.*

1,112,643, L. Muther, Method of and device for setting eyelets in flexible material, decree for plaintiff affirmed, U. S. C. C. Appeals, 1st Cir., *United Shoe Machinery Corp. et al.* v. *L. Muther.*

1,113,149, E. H. Armstrong, Wireless receiving systems, final consent decree adjudging inadvertent infringement and granting perpetual injunction, U. S. D. C., S. D. N. Y., *E. H. Armstrong and Others* v. *The Radio Guild, Inc.* Same, final consent decree sustaining patent as to claims 15 and 16 and granting perpetual injunction, U. S. D. C., S. D. N. Y., *E. H. Armstrong and Others* v. *J. B. Harrietts and Others.*

1,117,980, A. H. Cruse, Casting box, suit filed Apr. 18, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/252, *R. Hoe & Co.* v. *Goss Printing Press Co.*

1,119,952, W. Harrison, Transmitters for wireless communication, suit filed Feb. 26, 1923, U. S. D. C., E. D. N. Y., Doc. 1223, *W. Harrison* v. *Radio Corp. of America.*

1,144,399, E. T. Turney, Detectors for wireless systems, suit filed Jan. 8, 1923, U. S. D. C., S. D. N. Y., Doc. E. 25/320, *The Connecticut Telephone & Electric Co., Inc.*, v. *National Airphone Corp.*

1,227,280. (See 871,385.)

1,244,197, M. Gustin, Slippers, suit filed Jan. 5, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/303, *M. Gustin* v. *M. Steinberg.*

1,258,187, A. A. Carper, Bottling machines, suit filed Mar. 26, 1923, U. S. D. C., D. Pa. Doc. 2717, *Soda Bottling Machine Co.* v. *The Crown Cork & Seal Co.*

1,274,032, J. D. Gibbs, Railway passes, dismissed without prejudice on plaintiff's motion Mar. 12, 1923, U. S. D. C., W. D. Ky., *Gibbs-Inman Co.* v. *Courier Journal Job Printing Co.* Same, suit filed Mar. 12, 1923, U. S. D. C., W. D. Ky., Doc. 220, *Gibbs-Inman Co. v. Courier Journal Job Printing Co.*

1,319,768, W. F. Grupe, Woven fabrics, suit filed Apr. 16, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/248, *Endless Belt Corp.* v. *A. Herz.*

1,323,086, S. Moore, Picture frames, suit filed Jan. 9, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/337, *S. Moore* v. *L. Sonn & Bros., Inc.*

1,367,207, H. B. Rowan, Hand bags, suit filed Jan. 10, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/363, *Whiting & Davis Co.* v. *Newmann & Quint* (*Gold Seal Jewelers*).

1,371,530, M. L. Wagner, Receptacles, suit filed Jan. 22, 1923, U. S. D. C., D. Pa., Doc. 2687, *M. L. Wagner* v. *J. Wood Mfg. Co.*

1,394,037, Re. 15,517, G. P. Mallory, Apparatus for making paper spoons and other flat paper utensils, suit filed Feb. 8, 1923, U. S. D. C., D. Pa., Doc. 2699, *Sanitary Products Corp. of America* v. *Klean Products Co., Inc., and Others.*

1,405,173, H. J. Wheeler, Pumping apparatus, suit filed Mar. 12, 1923, U. S. D. C., E. D. N. Y., Doc. 1231, *H. J. Wheeler Salvage Co., Inc.*, v. *R. and S. Guardino.*

1,414,321, A. Zwiebelson, Brassière, suit filed Apr. 13, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/245, *A. Zwiebelson* (*Mollie Mayer*) v. *Fried & Heit* (*Best Fit Brassiere Co.*).

1,449,183, J. E. Johnstone, Baseball mask, suit filed Apr. 19, 1923, U. S. D. C., S. D. Ohio, Doc. E 302, *J. E. Johnstone* v. *The P. Goldsmith Sons Co.*

Des. 61,189, E. A. Davis, Lace, suits filed Apr. 12, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/242, *Blanck & Co., Inc.*, v. *I. L. Schall.* Same, Doc. E. 26/243, *Blanck & Co., Inc.*, v. *H. Friedman and Others.*

Re. 15,517. (See 1,394,037.)

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 19, 1923.

[VOL. 311. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 115,304. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WATSON MANUFACTURING COMPANY, Lancaster, Pa. Filed Jan. 18, 1919.



Particular description of goods.—Poultry-Raising Appliances—Namely, Incubators, Brooders, Hovers, Portable Hovers, Colony Brooders, Feeders, Drinking Fountains, and Grain Feeders.
Claims use since on or about Oct. 1, 1914.

Ser. No. 130,477. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1920.

DEPENDON

Particular description of goods.—Gummed Paper.
Claims use since January, 1913.

Ser. No. 137,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLDEN NUGGET SWEETS, San Francisco, Calif. Filed Oct. 5, 1920.



Applicant hereby disclaims the word "Sweets" and the words "Golden Nugget" apart from the trade-mark as shown.
Particular description of goods.—Fudge.
Claims use since Sept. 1, 1920.

Ser. No. 139,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOHR'S, Chicago, Ill. Filed Nov. 3, 1920.

Friendship

Particular description of goods.—Candy.
Claims use since March, 1915.

Ser. No. 140,683. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Dec. 6, 1920.



No claim made to the words "Supplee-Biddle Hardware Company, Philadelphia, Pennsylvania U. S. A., R. & W. C. Biddle Established 1837" apart from the mark shown in the drawing, but reserving any common-law right said corporation may have herein.

Particular description of goods.—Phonographs, Talking Machines, and Reproducers, Horns, Needles, and Records Therefor, and Musical Bells.

Claims use since about Mar. 1, 1920.

Ser. No. 142,040. (CLASS 15. OILS AND GREASES.) TETRALIN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Lubricants and Solvents in the Nature of Oils and Greases, Kerosene, Benzine, Gasoline, and Other Fuels for Internal-Combustion Engines; Illuminating, Heating, and Fuel Oils; Crude Mineral Oils, and Mineral Wax.

Claims use since Dec. 12, 1906.

Ser. No. 142,041. (CLASS 5. ADHESIVES.) TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Glue, Mucilage, and Paste.

Claims use since Dec. 12, 1906.

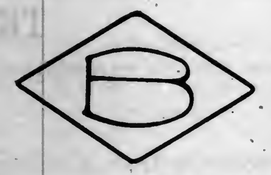
Ser. No. 145,430. (CLASS 39. CLOTHING.) EMILE BOUTON, Paris, France. Filed Mar. 30, 1921. Under ten-year proviso.

PARIS KALLISTA

Particular description of goods.—Hat Linings.

Claims use since 1887.

Ser. No. 145,544. (CLASS 2. RECEPTACLES.) BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Apr. 1, 1921.



Particular description of goods.—Cotton, Burlap, and Paper Bags.

Claims use since 1916.

Ser. No. 147,303. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MILWAUKEE MALTING & GRAIN CO., Milwaukee, Wis. Filed May 6, 1921.

MIL-MALT



No claim made for the word "Malt" apart from the mark as shown.

Particular description of goods.—Concentrated Malt Sirup and Concentrated Malt Extract.

Claims use since Apr. 29, 1921.

Ser. No. 148,932. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID DAVIDSON, Providence, R. I. Filed June 10, 1921.

David Davidson

The name appearing in the drawing is a facsimile signature of the applicant.

Particular description of goods.—Pictures.

Claims use since May, 1901.

Ser. No. 150,464. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAMLICO COTTONS, LTD., New York, N. Y. Filed July 16, 1921.

REALART

Particular description of goods.—Cretonnes, Tapestries, and Draperies in the Piece.

Claims use since June 15, 1921.

Ser. No. 152,536. (CLASS 37. PAPER AND STATIONERY.) BENJ. D. BENSON & SONS, INC., New York, N. Y. Filed Sept. 3, 1921.

"LITTLE MAJOR"

Particular description of goods.—Labeling Clips for Use with Loose-Leaf Binders or the Like.

Claims use since prior to May 6, 1920.

Ser. No. 154,317. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRICK AND RICE, Kendal, Fla. Filed Oct. 19, 1921.



No claim made to the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Fresh Grapefruit.

Claims use since Sept. 13, 1921.

Ser. No. 155,280. (CLASS 39. CLOTHING.) HARRY USWALD, Brooklyn, N. Y. Filed Nov. 10, 1921.



Bay Squirrel

No claim is made to the word "Squirrel" apart from the mark as shown on the drawing.

Particular description of goods.—Coats, Wraps, Capes, and Neck Pieces.

Claims use since about July 1, 1921.

Ser. No. 155,281. (CLASS 39. CLOTHING.) HARRY USWALD, Brooklyn, N. Y. Filed Nov. 10, 1921.



FAR EASTERN MINK

No claim is made to the use of the word "Mink" apart from the mark as shown on the drawing.

Particular description of goods.—Fur Coats, Wraps, Capes, and Neck Pieces.

Claims use since about July 1, 1921.

Ser. No. 155,328. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VOLUMA CORPORATION, Baltimore, Md. Filed Nov. 12, 1921.

VOLUMA

Particular description of goods.—Talking Machines, Reproducers, Recorders, and Needles for Talking Machines and Parts Therefor.

Claims use since March, 1920.

Ser. No. 157,492. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELEN MARION MACDONALD, Vancouver, British Columbia, Canada. Filed Jan. 4, 1922.



No claim made to the wording appearing on the drawing apart from the mark as shown. The portrait appearing on the drawing is that of the infant daughter of the applicant.

Particular description of goods.—Herbal Remedy for Expectant Mothers.

Claims use since Nov. 4, 1921.

Ser. No. 157,507. (CLASS 17. TOBACCO PRODUCTS.) ORIENTALISCHE TABAK- U. CIGARETTENFABRIK YENIDZE, INHABER, HUGO ZIETZ, Dresden, Germany. Filed Jan. 4, 1922.

Salem Gold

Trade-mark consists of the words "Salem Gold."

Particular description of goods.—Raw Tobacco, Tobacco for Smoking, Chewing Tobacco, and Snuff, Cigars, Cigarillos, and Cigarettes.

Claims use since Aug. 30, 1910.

Ser. No. 158,178. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CHURCH BULLETIN, INC., New York, N. Y. Filed Jan. 20, 1922.



Particular description of goods.—Church Bulletin.
Claims use since September, 1912.

Ser. No. 158,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. E. JOHNSON, doing business as Mrs. W. E. Johnson, Great Falls, Mont. Filed Jan. 20, 1922.

LUNCH-ON

Particular description of goods.—Salad Dressing.
Claims use since July 1, 1921.

Ser. No. 158,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Y. MAEDA, doing business as Liberty Produce Company, Livingston, Calif. Filed Feb. 2, 1922.

Goddess

Particular description of goods.—Deciduous Fruits and Grapes in Their Natural State.
Claims use since Aug. 1, 1921.

Ser. No. 159,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. R. ROACH & COMPANY, Grand Rapids, Mich. Filed Feb. 8, 1922.

HART

Particular description of goods.—Fresh Fruits and Vegetables.
Claims use since 1907.

Ser. No. 159,186. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) J. STEVENS ARMS COMPANY, New York, N. Y. Filed Feb. 10, 1922.

CRACK SHOT

Particular description of goods.—Sporting Rifles.
Claims use since about Jan. 1, 1900.

Ser. No. 159,187. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) J. STEVENS ARMS COMPANY, New York, N. Y. Filed Feb. 10, 1922.

LITTLE SCOUT

Particular description of goods.—Sporting Rifles.
Claims use since about Jan. 1, 1904.

Ser. No. 159,188. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) J. STEVENS ARMS COMPANY, New York, N. Y. Filed Feb. 10, 1922.

MARKSMAN

Particular description of goods.—Sporting Rifles.
Claims use since about Jan. 1, 1912.

Ser. No. 159,210. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LITTLE GIANT COMPANY, Mankato, Minn. Filed Feb. 11, 1922.

LITTLE GIANT

The trade-mark consists of the words "Little Giant."
Particular description of goods.—Road-Building Machinery—Namely, Tractors, Graders, and Ditchers; and Metal-Working Equipment—Namely, Machine Forging Hammers, Form-Bending Machinery, Form-Forging Dies, Metal and Wood Lathes, and Various Attachments for All of the Foregoing Equipment.
Claims use since 1895.

Ser. No. 159,286. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERMAN RESLER & COMPANY, Chicago, Ill. Filed Feb. 13, 1922.

RESTEX

Trade-mark "Restex."
Particular description of goods.—Cotton Piece Goods, Silk and Cotton Goods, Ladies' Woolen Dress Fabrics, and Dress Linens.
Claims use since about Aug. 1, 1920.

Ser. No. 159,717. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NATIONAL RECORD EXCHANGE COMPANY, Iowa City, Iowa. Filed Feb. 23, 1922.



Particular description of goods.—Phonograph-Record Cabinets.
Claims use since Feb. 10, 1922.

Ser. No. 160,287. (CLASS 25. LOCKS AND SAFES.) RUDOLPO HUBER, Nashville, Tenn. Filed Mar. 7, 1922.



Particular description of goods.—Automobile Lock.
Claims use since Oct. 31, 1921.

Ser. No. 160,323. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

CRYSTAL ORGANDIE

No claim made to the word "Organdie" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 28, 1921.

Ser. No. 160,325. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

Crepe Invincible

No claim made to the word "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,328. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

TAFFETEX

Particular description of goods.—Cotton and Silk Mixture Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,456. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ALEXANDER MORRISON & COMPANY, INCORPORATED, Newark, N. J. Filed Mar. 10, 1922.

PERCOPLATE

Trade-mark consists of the word "Percoplate."
Particular description of goods.—Steam Boilers; Coal, Coke, Gas, and Oil Heated Furnaces; Gas Heaters; Coal, Coke, Gas, and Oil Fired Water Heaters, and Radiators.
Claims use since on or before Oct. 6, 1921.

Ser. No. 160,644. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. F. TENNY, doing business as Tenny Vitalamine Co., Buffalo, N. Y. Filed Mar. 13, 1922.

VITALAMINE

Particular description of goods.—Tablets for Relieving Dyspepsia and Constipation and Increasing Strength and Vitality.
Claims use since about Oct. 1, 1921.

Ser. No. 160,825. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Mar. 17, 1922.

WIXOM

Particular description of goods.—Machinery Belting, Hose, and Packing Composed of Rubber or Rubber and Fabric.
Claims use since about February, 1915.

Ser. No. 161,821. (CLASS 39. CLOTHING.) DE GARCY CO., INC., New York, N. Y. Filed Apr. 6, 1922.

Lady Duff

Particular description of goods.—Breakfast Coats and Like Negligees.
Claims use since Jan. 10, 1922.

Ser. No. 162,384. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Apr. 17, 1922.

VISCOLAC

Particular description of goods.—Lacquers and Enamels Containing a Cellulose Ester.
Claims use since July 25, 1921, on lacquers; since Jan. 24, 1922, on enamels.

Ser. No. 163,413. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE QUEEN CITY EXTRACT COMPANY, Cincinnati, Ohio. Filed May 5, 1922.



Particular description of goods.—Nonalcoholic, Maltless, Grape-Flavored Sirup for Beverage Purposes.
Claims use since Dec. 2, 1921.

Ser. No. 164,528. (CLASS 39. CLOTHING.) YOUNGFOLKS M'F'G. CO., New York, N. Y. Filed May 25, 1922.



No claim is made to the representation of the bats and balls apart from the mark shown in the drawing.
Particular description of goods.—Children's Suits, Wash Suits, and Play Suits.
Claims use since May 5, 1922.

Ser. No. 165,838. (CLASS 48. THREAD AND YARN.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed June 21, 1922.



The applicant does not claim any right to the exclusive use of the face of a lion or the device of a sun appearing on the trade-mark.
Particular description of goods.—Cotton Yarns.
Claims use since Aug. 13, 1868.

Ser. No. 166,250. (CLASS 39. CLOTHING.) THE POWELL KNITTING COMPANY, Philadelphia, Pa. Filed June 29, 1922.

Oxford

Particular description of goods.—Hosiery.
Claims use since Nov. 10, 1905.

Ser. No. 166,659. (CLASS 15. OILS AND GREASES.) DIXIE OIL & GREASE COMPANY, Atlanta, Ga. Filed July 10, 1922.

GEARCO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since July, 1917.

Ser. No. 166,864. (CLASS 37. PAPER AND STATIONERY.) WORTENDIKE MANUFACTURING CO., Richmond, Va. Filed July 13, 1922.



Particular description of goods.—Toilet Paper, Paper Towels.
Claims use since June 5, 1922.

Ser. No. 167,019. (CLASS 39. CLOTHING.) NATHAN ROTHMAN, doing business as Rough Rider Manufacturing Company, San Francisco, Calif. Filed July 17, 1922.

ROUGH RIDER

Particular description of goods.—Khaki, Corduroy, and Worsted Pants.
Claims use since Aug. 1, 1899.

Ser. No. 167,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUGAR CONE MANUFACTURING CORP., Brooklyn, N. Y. Filed July 28, 1922.



Particular description of goods.—Sugar Cones.
Claims use since Nov. 1, 1921.

Ser. No. 168,506. (CLASS 39. CLOTHING.) THE ATLAS SWEATER MILLS, INC., New York, N. Y. Filed Aug. 21, 1922.



Particular description of goods.—Knitted Sweaters, Knitted Scarfs, Knitted Ties, of Silk Fiber, Camel's Hair, Mohair, Chiffon, and Jersey Cloth.
Claims use since on or about Apr. 1, 1917.

Ser. No. 169,028. (CLASS 2. RECEPTACLES.) MAYER COATING MACHINES CO. INC., doing business as Joy Paper Products Co., Rochester, N. Y. Filed Sept. 2, 1922.

Joy Cup

No claim is made to the word "Cup" apart from the mark shown.
Particular description of goods.—Paper Cups.
Claims use since July 13, 1922.

Ser. No. 169,280. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARTER DRY GOODS COMPANY, Louisville, Ky. Filed Sept. 11, 1922.

Corona

Particular description of goods.—Percales in the Piece.
Claims use since Jan. 1, 1912.

Ser. No. 169,381. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE WALL PAPER MANUFACTURERS LIMITED, London, England. Filed Sept. 12, 1922.

ROCKFAST

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints.
Claims use since Apr. 18, 1912.

Ser. No. 169,692. (CLASS 12. CONSTRUCTION MATERIALS.) THE TORBAY & DART PAINT CO. LIMITED, London, England. Filed Sept. 19, 1922.

NOVOID

Particular description of goods.—Waterproofing Compound for Cement.
Claims use since Jan. 10, 1919.

Ser. No. 169,743. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTSILK KNITTING MILLS, New York, N. Y. Filed Sept. 21, 1922.

SYLVAN CREPE

No claim is made to the word "Crepe" apart from the other feature of the mark as shown in the drawing.
Particular description of goods.—Broad Silk in the Piece.
Claims use since March, 1917.

Ser. No. 169,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGIA A. SIMMONS, Washington, D. C. Filed Sept. 22, 1922.

GEORGIA'S FAMOUS HAIR GROWER.

No claim made to the words "Hair Grower."
Particular description of goods.—Preparation for Growing Hair and the Eradication of Dandruff.
Claims use since Feb. 16, 1922.

Ser. No. 170,475. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CONTINENTAL AUTO PARTS COMPANY, Columbus, Ind. Filed Oct. 9, 1922.

PIONEER

Particular description of goods.—Spring Shackle and Other Bolts, Nuts, and Metal Washers.
Claims use since Sept. 1, 1921.

Ser. No. 170,511. (CLASS 39. CLOTHING.) ISAAC WALDORF, Baltimore, Md. Filed Oct. 9, 1922.

WALDORF'S STANDARD UNIONS

Color is not a particular feature of the mark, the lining being for the purpose of shading only, no claim being made to the words "Standard" and "Unions" apart from the mark as shown in the drawing.
Particular description of goods.—Union Suits of Textile Fabric.
Claims use since Nov. 1, 1921.

Ser. No. 170,634. (CLASS 39. CLOTHING.) A. B. FRANK COMPANY, San Antonio, Tex. Filed Oct. 12, 1922.

TROGON

Particular description of goods.—Hosiery and Sweaters, Scarfs, Caps, Bootees, and Knit Sets.
Claims use since June 1, 1922.

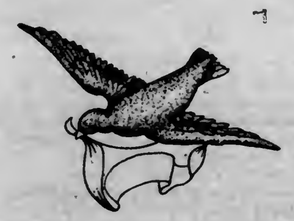
Ser. No. 170,760. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. KOBAYASHI & CO., INC., New York, N. Y. Filed Oct. 16, 1922.

UNIK SILKS

No claim made for the word "Silks" apart from the mark as shown
Particular description of goods.—Broad Silks in the Piece and Silk and Cotton Goods in the Piece.
Claims use since July, 1921.

Ser. No. 170,804. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLUE BIRD INC. PERFUMERS, New York, N. Y. Filed Oct. 17, 1922.

BLUE BIRD



Particular description of goods.—Ointment for Acne and Other Skin Diseases.
Claims use since September, 1915.

Ser. No. 171,152. (CLASS 39. CLOTHING.) COLTER & BERNIE, New York, N. Y. Filed Oct. 25, 1922.

PLEEZALL

Particular description of goods.—Hosiery and Underwear of Knitted and Textile Fabric for Men, Women, and Children.
Claims use since July, 1920.

Ser. No. 171,199. (CLASS 39. CLOTHING.) BEST-MAKE BOYS CLOTHING CO., INC., New York, N. Y. Filed Oct. 26, 1922.

BEST MAKE

No claim is made to the words "Best Make" and "None Better Made" apart from the mark shown on the drawing.
Particular description of goods.—Children's, Boys', Students', and Young Men's Suits and Topcoats.
Claims use since Oct. 1, 1922.

Ser. No. 171,206. (CLASS 11. INKS AND INKING MATERIALS.) DERMER & COMPANY, Wilkes-Barre, Pa. Filed Oct. 26, 1922.

DECO

Particular description of goods.—Writing Ink, Typewriter Ribbons, Carbon Paper, and Lithographing and Printing Ink.
Claims use since May, 1915.

Ser. No. 171,308. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ERIE STEEL CONSTRUCTION COMPANY, Erie, Pa. Filed Oct. 28, 1922.

AGGREMETER

Trade-mark "Aggremeter."
Particular description of goods.—Holding and Measuring Apparatus for Accurately Proportioning Stone or Gravel or Other Construction Materials for Making Up Batches.
Claims use since Apr. 14, 1922.

Ser. No. 171,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARISIAN SPECIALTY CO., Seattle, Wash. Filed Oct. 30, 1922.



Particular description of goods.—Facial Packs.
Claims use since Feb. 15, 1922.

Ser. No. 171,816. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICH-MAID MFG. CO., INC., Richmond, Va. Filed Nov. 10, 1922.

POPCO SQUARES

Particular description of goods.—Pop-Corn Confection.
Claims use since Aug. 1, 1922.

Ser. No. 172,047. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SIGMUND KATZ, doing business as Bluebell Malt Co., New York, N. Y. Filed Nov. 15, 1922.

Bluebelle Malt

MADE EXCLUSIVELY FROM CHOICEST MALT
A MODERN PURE FOOD

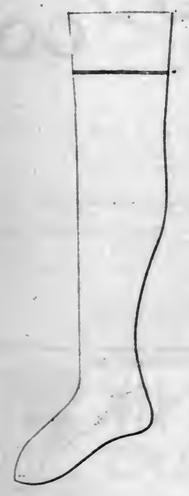
The following matter appearing on the drawing is disclaimed by the applicant apart from the mark shown thereon: "Malt," "Made Exclusively from Choicest Malt," and "A Modern Pure Food."
Particular description of goods.—Pure Malt Extracts.
Claims use since June 15, 1922.

Ser. No. 172,507. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EVERETT BURDEN, doing business as Burden Manufacturing Company, East Liverpool, Ohio. Filed Nov. 25, 1922.

Dat-O

Particular description of goods.—Nonalcoholic, Maltless Fruit Sirups for Beverages Sold as Soft Drinks.
Claims use since June, 1922.

Ser. No. 172,523. (CLASS 39. CLOTHING.) CONCORDIA SILK HOSIERY COMPANY, Philadelphia, Pa. Filed Nov. 25, 1922.



Trade-mark consists of a green stripe or band encircling the stocking, as shown. The stocking shown in the drawing forms no part of the mark.
Particular description of goods.—Hosiery.
Claims use since the fall of 1913.

Ser. No. 172,566. (CLASS 39. CLOTHING.) THE STYLE-CENTER TAILORING COMPANY, Cincinnati, Ohio. Filed Nov. 25, 1922.

THE SEAL OF SATISFACTION
Greater Value Outfitters
CINCINNATI, OHIO

No claim made to the words "The Seal of Satisfaction," "Greater Value Outfitters," or "Cincinnati, Ohio" except in the form and association shown. The trade-mark is lined for the colors red and green.
Particular description of goods.—Women's and Young Women's Clothing and Garments, Consisting of Shirtwaists, Cravats, Stockings, Leggings; Boots, Shoes, and Slippers Made of Leather, Rubber, Fabric, or Combinations of These; Cloaks, Capes, and Golf, Riding, Plain, and Fancy Coats, Vests, Trousers, and Skirts.
Claims use since Jan. 15, 1922.

Ser. No. 172,570. (CLASS 39. CLOTHING.) JAMES W. BRINE COMPANY, Boston, Mass. Filed Nov. 27, 1922. Under ten-year proviso.

BRINE

Particular description of goods.—Football Pants, Football Jackets, Knit Worsteds Union Suits, Football Shoes, Athletic Stockings, Sweat Shirts, Training Shirts, Jerseys, Sweaters, Football Shoes, Basket-Ball Shirts, Basket-Ball Pants, Basket-Ball Shoes, Gymnasium Uniforms, Shirts for Gymnasium Instructors, Sleeveless Shirts, Short-Sleeve Shirts, Knee Tights, Full Tights, Gymnasium Pants, Gymnasium Shoes, Gymnasium Belts, Canvas Shoes, Tumbling Shoes, Track Uniforms, Running Pants, Running Shoes, Jumping Shoes, Skating Shoes, Moccasins, Skating Caps, Wool Socks, Boxing Tights, Baseball Shoes, Baseball Uniforms, Baseball Shirts, Baseball Pants, Baseball Coats, Baseball Caps, Tennis Shoes, Sport Shoes, Flannel Trousers, Tennis and Outing Shirts, Tennis Socks, University Hats, Bathing Suits, Bathing Tights, Bathing Shirts, Bathing Caps, Belts, Stockings, Knitted Sport Coat, Leather Sport Coat, Soccer Jerseys, Soccer Pants, Velvet Trunks, Sateen Trunks, Worsted Trunks, Cotton Trunks, and Embroidered Hats.
Claims use since Jan. 1, 1895.

Ser. No. 172,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEEBE LABORATORIES, INCORPORATED, doing business as Ward and Pierre, St. Paul, Minn. Filed Dec. 1, 1922.



Particular description of goods.—Face Creams.
Claims use since Oct. 1, 1922.

Ser. No. 172,816. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Dec. 2, 1922.

The 5th Regiment Band

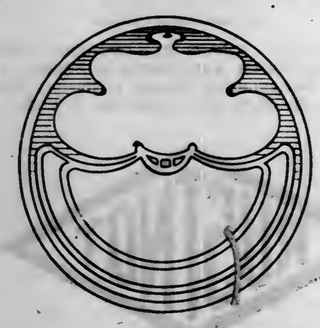
Particular description of goods.—Mouth Harmonica.
Claims use since August, 1922.

Ser. No. 172,977. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CONTINENTAL-CAOUTCHOUC- UND GUTTA-PERCHA-COMPAGNIE, Hanover, Germany. Filed Dec. 6, 1922.

Continental

Particular description of goods.—Solid and Pneumatic Tires for Vehicles of All Kinds, Inner Tubes for Hollow Tires, Tire Valves, Tire Treads, Tire Covers, Tire-Protective Devices, Tire-Repair Parts and Plugs and Parts Thereof, All Made Entirely or in Material Part of Rubber or Caoutchouc.
Claims use since 1902.

Ser. No. 173,017. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MADAM C. J. WALKER MFG. CO., Indianapolis, Ind. Filed Dec. 6, 1922.



Particular description of goods.—Hair Salve.
Claims use since 1911.

Ser. No. 173,018. (CLASS 39. CLOTHING.) ALEX. L. WALLAU, New York, N. Y. Filed Dec. 6, 1922.



Particular description of goods.—Knitted Wear—Namely, Scarfs, Sweaters, and Knit Dresses.
Claims use since April, 1922.

Ser. No. 173,019. (CLASS 39. CLOTHING.) ALEX. L. WALLAU, New York, N. Y. Filed Dec. 6, 1922.

BONNIE DOON

Particular description of goods.—Knitted Wear—Namely, Scarfs, Sweaters, and Knit Dresses.
Claims use since April, 1922.

Ser. No. 173,075. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) EAST COAST TRADING CO., Baltimore, Md. Filed Dec. 8, 1922.



The words "Poultry Products" are hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Shell and Grit.
Claims use since Nov. 20, 1922.

Ser. No. 173,106. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KENNETH E. PORTER, doing business as Rustnot Products Company, Cleveland, Ohio. Filed Dec. 8, 1922.



No claim is made to the exclusive use of the word "Rustnot" apart from the other features of the trade-mark.
Particular description of goods.—Table, Kitchen, Butcher, and Hunting Knives and Forks Made of Base Metal.
Claims use since Nov. 22, 1922.

Ser. No. 173,246. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SAMUEL ROBBER, doing business as Konroe Merchants, New York, N. Y. Filed Dec. 12, 1922.



Particular description of goods.—Egg Slicers and Cake Forms.
Claims use since Jan. 20, 1921.

Ser. No. 173,353. (CLASS 39. CLOTHING.) GRIP BOW TIE COMPANY, Omaha, Nebr. Filed Dec. 15, 1922.

Par

Particular description of goods.—Necktles.
Claims use since Nov. 14, 1922.

Ser. No. 173,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSMOND M. SHEPPARD, Bellingham, Wash. Filed Dec. 15, 1922.



I disclaim the words "Pure Candies" and "Ice Cream" appearing on the drawing as constituting any part of my trade-mark.
Particular description of goods.—Candy.
Claims use since July, 1921.

Ser. No. 173,407. (CLASS 2. RECEPTACLES.) THE CUTINO COMPANY, Kansas City, Mo. Filed Dec. 16, 1922.

IVO-WARE

No claim made to the word "Ware" apart from the mark shown.
Particular description of goods.—Toilet Articles—Namely, Puff Boxes, Hair Receivers, and Jewel Boxes.
Claims use since April, 1921.

Ser. No. 173,419. (CLASS 39. CLOTHING.) GERALD D. GROSNER, doing business as Grosner's, Washington, D. C. Filed Dec. 16, 1922.

-thru & thru

Particular description of goods.—Men's Dress and Negligee Shirts and Men's Nightshirts and Pyjamas.
Claims use since Dec. 13, 1922.

Ser. No. 173,705. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HAMILTON D. HEAD, doing business as Excelo Manufacturing Company, Texarkana, Tex. Filed Dec. 22, 1922.



Particular description of goods.—Polish for Furniture and Varnished Surfaces.
Claims use since Nov. 15, 1922.

Ser. No. 173,944. (CLASS 39. CLOTHING.) TUXEDO SHIRT CO. INC., New York, N. Y. Filed Dec. 28, 1922.

Exalto Crepe

No claim is made to the word "Crepe" apart from the mark as shown in the drawing.
Particular description of goods.—Dress, Negligee, and Work Shirts.
Claims use since January, 1922.

Ser. No. 174,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRELL-SOULE COMPANY, Syracuse, N. Y. Filed Jan. 3, 1923.

MERSOLAC

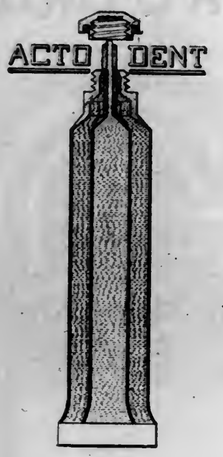
Particular description of goods.—Powdered Milk.
Claims use since Dec. 3, 1912.

Ser. No. 174,158. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER, HALSEY CO., New York, N. Y. Filed Jan. 3, 1923.

A LUXOR

Particular description of goods.—Cotton Piece Goods.
Claims use since April, 1908.

Ser. No. 174,207. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEVIL MONROE HOPKINS, New York, N. Y. Filed Jan. 5, 1923.



No claim made for the representation of the tube and cap.
Particular description of goods.—Dentifrices.
Claims use since Oct. 11, 1922.

Ser. No. 174,230. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) CHARLES MACK BERMAN, New York, N. Y. Filed Jan. 6, 1923.



No claim made to the representation of a powder puff nor to the words "Seal Packed Velour Powder Puff, Made in U. S. A."
Particular description of goods.—Powder Puffs.
Claims use since Feb. 1, 1918.

Ser. No. 174,275. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALPHA GAME & TOY COMPANY, INC., New York, N. Y. Filed Jan. 8, 1923.

DISK-O-GRAPH

Particular description of goods.—Educational Puzzle Game.
Claims use since Nov. 14, 1922.

Ser. No. 174,430. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MRS. C. H. EVANS, Wichita Falls, Tex. Filed Jan. 11, 1923.



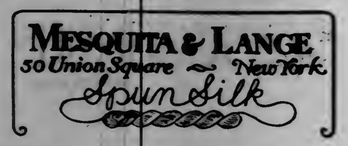
The color lines of the label are a medium purple. Applicant disclaims all right to the following descriptive reading matter on the label: "Net Weight 7½ oz., 1000 Island Dressing, Trade Mark."
Particular description of goods.—Salad Dressing.
Claims use since June 5, 1922.

Ser. No. 174,643. (CLASS 39. CLOTHING.) THORNLEY AND BOOTH LIMITED, Hyde, England. Filed Jan. 15, 1923.

SOXOS.

Particular description of goods.—Socks for Boots and Shoes.
Claims use since July 15, 1920.

Ser. No. 174,665. (CLASS 43. THREAD AND YARN.) MESQUITA & LANGE, New York, N. Y. Filed Jan. 16, 1923.



Applicant disclaims apart from the mark shown the words "50 Union Square, New York" and "Spun Silk;" also the representation of the goods.
Particular description of goods.—Spun Silk.
Claims use since about January, 1922.

Ser. No. 174,773. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GLOBE WIRE CO., Sharpsburg, Pa. Filed Jan. 19, 1923.

METEOR

Particular description of goods.—Steel Rods Suitable for the Making of Taps and Small Tools.
Claims use since Aug. 4, 1922.

Ser. No. 174,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRACE B. HOOKER, East Providence, R. I. Filed Jan. 19, 1923.



No claim is made to the exclusive right to the use of the word "Candies" except in connection with the trade-mark shown.
Particular description of goods.—Candy.
Claims use since Dec. 20, 1922.

Ser. No. 174,822. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DURBROW & HEARNE, New York, N. Y. Filed Jan. 20, 1923.

TRIUMPH

Particular description of goods.—Cutting Machines for Use in the Manufacture of Hats.
Claims use since about 1902.

Ser. No. 174,832. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH M. GRIES, Battle Mountain, Nev. Filed Jan. 20, 1923.

RAINBOW

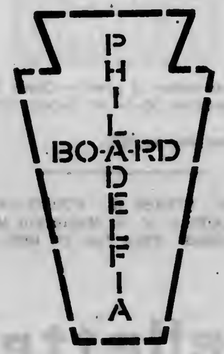
Particular description of goods.—Ice Cream.
Claims use since March, 1919.

Ser. No. 174,837. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDIANAPOLIS ABATTOIR COMPANY, Indianapolis, Ind. Filed Jan. 20, 1923.

Leader

Particular description of goods.—Hams, Bacon, and Sausage.
Claims use since 1895.

Ser. No. 174,855. (CLASS 37. PAPER AND STATIONERY.) PHILADELPHIA PAPER MANUFACTURING COMPANY, Philadelphia and Manayunk, Pa. Filed Jan. 20, 1923.



No claim is made to the exclusive use of the word "Philadelfia" or to the word "Board" apart from the mark as shown on the drawing, applicant however waiving none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Paper Board.
Claims use since on or about Nov. 20, 1922.

Ser. No. 175,009. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DENTROL SALES CORPORATION, Wilmington, Del., and New York, N. Y. Filed Jan. 24, 1923.

Dent Roll

No claim being made to the word "Roll" apart from the mark shown in the drawing.
Particular description of goods.—Fabric Rolls Impregnated with a Dentifrice and Holders Therefor.
Claims use since July 1, 1922.

Ser. No. 175,014. CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRANGER MINERAL CO., Camas, Wash. Filed Jan. 24, 1923.



Particular description of goods.—Medicinal Preparation for Internal Use in the Treatment of Chronic Disorders of the Stomach, Kidneys, Liver, and Blood and in Assisting Nature to Overcome Rheumatic Complaints.
Claims use since Nov. 15, 1922.

Ser. No. 175,027. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSEMARY MANUFACTURING COMPANY, Roanoke Rapids, N. C. Filed Jan. 24, 1923.



Particular description of goods.—Jacquard-Woven Fabrics—Namely, Table Damask, Tablecloths, and Napkins.
Claims use since Dec. 20, 1922.

Ser. No. 175,045. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILDER & JACOBS, Boston, Mass. Filed Jan. 24, 1923.



Particular description of goods.—Processed Coffee.
Claims use since Sept. 6, 1922.

Ser. No. 175,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALVIS BURNHAM, doing business as Burnham Packing Company, Clay City, Ind. Filed Jan. 25, 1923.

CRIMSON CUPS



Particular description of goods.—Canned Pimientos.
Claims use since Aug. 25, 1920.

Ser. No. 175,153. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OLYMPIA MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 26, 1923.

TRIUNE FABRICS

QUALITY STYLE INTEGRITY

No claim is made for the word "Fabrics" or for the words "Quality, Style, Integrity," except in the arrangement shown. In the trade-mark the triangle is represented with a red body and a blue line, with the words "Quality, Style, Integrity" at the sides also printed in red. The words "Triune" and "Fabrics" are printed in blue ink, the word "Triune" being lightly shaded on the outside of the letters and the word "Fabrics" having the lighter shading in their middle portions.
Particular description of goods.—Cotton Goods, and Particularly Cotton and Silk Shirtings.
Claims use since about the middle of June, 1922.

Ser. No. 175,159. (CLASS 2. RECEPTACLES.) THE PUP TOYS COMPANY, Chicago, Ill. Filed Jan. 26, 1923.



Particular description of goods.—Candy Boxes, Wrappers, and Receptacles Made of Paper, Cardboard, and Wood.
Claim use since May 1, 1922.

Ser. No. 175,258. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. A. MARTOCCIO MACARONI CO., Minneapolis, Minn. Filed Jan. 29, 1923.

Shellettes

Particular description of goods.—Macaroni.
Claims use since Jan. 22, 1923.

Ser. No. 175,343. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS FRANCIS CABOFF, doing business as Central Shellac Works, Brooklyn, N. Y. Filed Jan. 31, 1923.



Particular description of goods.—Specially-Prepared Shellac Products.
Claims use since Jan. 1, 1921.

Ser. No. 175,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. MCGUIRE, Cliffside, N. J. Filed Jan. 31, 1923.



McGUIRE'S LINIMENT

No claim made to the exclusive use of the word "Liniment" apart from the mark as shown on the drawing. The picture is that of William A. McGuire, jr., pitcher of the West New York baseball team of West New York, N. J.
Particular description of goods.—Liniments.
Claims use since Dec. 9, 1922.

Ser. No. 175,432. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAPLE PRODUCERS' CO-OPERATIVE ASSOCIATION, INC., Syracuse, N. Y. Filed Feb. 2, 1923.



The words "Pure-Maple" are disclaimed except as used in conjunction with the other features of the mark shown on the drawing. Trade-mark consists of the words "Frost-elf."
Particular description of goods.—Maple Sirup and Maple Sugar.
Claims use since July 5, 1922.

Ser. No. 175,448. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) E. J. WILKINS CO., Gloversville, N. Y. Filed Feb. 2, 1923.

Evertite

Particular description of goods.—Coin Purses; Pocketbooks for Men, Women, and Children; Ladies' Hand Bags; Roll-Ups for Carrying Toilet Articles, Manicure Implements, Sewing Materials, Etc.
Claims use since Mar. 1, 1922.

Ser. No. 175,459. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEATRICE CREAMERY COMPANY, Chicago, Ill., and Topeka, Kans. Filed Feb. 3, 1923.

Meadow-Gold

Particular description of goods.—Milk and Cream.
Claims use since Oct. 5, 1922.

Ser. No. 175,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR CO., also doing business as The Mesa Flour Mills, Denver and Grand Junction, Colo. Filed Feb. 3, 1923.

Colorado Blossom

Particular description of goods.—Wheat Flour.
Claims use since Nov. 1, 1922.

Ser. No. 175,501. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN LAUX, doing business as Wilsonville Roller Mills, Wilsonville, Nebr. Filed Feb. 3, 1923.

GOLDEN SMILES

Particular description of goods.—Wheat Flour.
Claims use since October, 1922.

Ser. No. 175,527. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ALLEN SMITH & Co., Knoxville, Tenn. Filed Feb. 3, 1923.

SURE-NUF

Particular description of goods.—Self-Rising Flour.
Claims use since Feb. 22, 1919.

Ser. No. 175,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN M. WILSON, doing business as Meridian Grain & Elevator Company, Meridian, Miss. Filed Feb. 3, 1923.

JUST AS GOOD

Particular description of goods.—Horse and Mule Feed, Ox Feed, Hog Feed, Scratch Feed, and Dairy Feed.
Claims use since June 13, 1921.

Ser. No. 175,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMSON CANDY COMPANY, Mechanicsburg, Pa. Filed Feb. 2, 1923.



No claim is made to the use of the reading matter "Samson Candy Co., Mechanicsburg, Pa." apart from the other features of the mark shown on the drawing.
Particular description of goods.—Candies.
Claims use since Jan. 1, 1923.

Ser. No. 175,580. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Feb. 5, 1923.

Warmster

Particular description of goods.—Coats.
Claims use since July, 1922.

Ser. No. 175,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif. Filed Feb. 6, 1923.

St. Francis

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Nov. 1, 1921.

Ser. No. 175,625. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEYTON PACKING COMPANY, Charleston, W. Va., and El Paso, Tex. Filed Feb. 6, 1923.

CHESTERFIELD

Particular description of goods.—Breakfast Bacon and Picnics.
Claims use since about Mar. 3, 1919, on breakfast bacon; and since about Aug. 1, 1919, on picnics.

Ser. No. 175,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, San Francisco, Calif. Filed Feb. 6, 1923.

VIRDEN'S CAMP FIRE

Particular description of goods.—Canned Tomatoes.
Claims use since Aug. 5, 1922.

Ser. No. 175,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LANGSTON L. LYONS, doing business as Yo! Mammy's Milk Co., St. Louis, Mo. Filed Feb. 7, 1923.



No claim made to the exclusive use of the expression "Makes Life Worth Living," "I Say So," and the word "Milk" aside from the mark shown.
Particular description of goods.—Evaporated Milk.
Claims use since Oct. 12, 1922.

Ser. No. 175,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH & HORSBAS, Eldorado, Kans. Filed Feb. 7, 1923.



No claim is made to the text or printed matter shown in the accompanying drawing except the initials "S & H" apart from the trade-mark shown.
Particular description of goods.—Bread.
Claims use since Jan. 1, 1919.

Ser. No. 175,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 8, 1923.

GRANUTO

Particular description of goods.—Cereal Breakfast Food.
Claims use since Jan. 1, 1900.

Ser. No. 175,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 8, 1923.

SAVITA

Particular description of goods.—Vegetable Flavors for Food-Flavoring Purposes.
Claims use since Mar. 3, 1914.

Ser. No. 175,711. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY, Wilmington, Del., and Baltimore, Md. Filed Feb. 8, 1923.

FIDES

Particular description of goods.—Candy.
Claims use since Jan. 27, 1923.

Ser. No. 175,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALL BAKING CO., Buffalo, N. Y. Filed Feb. 9, 1923.

"The HALL of Bakery Fame"

Particular description of goods.—Bread.
Claims use since Dec. 19, 1922.

Ser. No. 175,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. MURDOCK MFG. CO., Kansas City, Mo. Filed Feb. 9, 1923.

TROPICAL

Particular description of goods.—Food-Flavoring Extracts and Coffee.
Claims use since about 1914.

Ser. No. 175,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTH BEND WHOLESALE GROCERY COMPANY, South Bend, Ind. Filed Feb. 9, 1923.

ST. JOE VALLEY

Particular description of goods.—Canned Corn, Canned Peas, Canned Beans, Canned Succotash, Canned Tomatoes, Canned Sauerkraut, Canned Sweet Potatoes, Canned Beets, Canned Pumpkin, Canned Hominy, Canned Spinach, Canned Peaches, Canned Apricots, Canned Pineapple, Canned Apples, Canned Cherries, Canned Strawberries, Roasted Coffee, Cocoa, Mincemeat, Canned Dried Beef, Horse-Radish, Prepared Mustard, Apple Butter, Grape Jelly, Peanut Butter, Food-Flavoring Extracts, Spices, Table Sirup, Canned Salmon, Corn Meal, Scratch Feed, Prunes, Pickles, Vinegar, Olives, and Wheat Flour.
Claims use since July, 1921.

Ser. No. 175,826. (CLASS 39. CLOTHING.) DAISY WHITEHEAD KNITTING CO., New York, N. Y. Filed Feb. 9, 1923.



The picture shown in the drawing is fanciful.
Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since January, 1915.

Ser. No. 175,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CHICLE COMPANY, Long Island City, N. Y. Filed Feb. 10, 1923. Under ten-year proviso.



The lining of the drawing is intended to denote the color yellow.

Particular description of goods.—Chewing Gum.
Claims use since 1887.

Ser. No. 175,838. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 10, 1923.

Bromose

Particular description of goods.—Nut Cereal Food.
Claims use since Apr. 1, 1893.

Ser. No. 175,851. (CLASS 39. CLOTHING.) JACOB H. COHEN, doing business as Arrow Knitting Company, New York, N. Y. Filed Feb. 10, 1923.

ARROWNIT

Particular description of goods.—Sweaters and Sport Coats of Wool, Cotton, Silk, and Combinations Thereof.
Claims use since June, 1919.

Ser. No. 175,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXENDER ZIELINSKI, Trenton, N. J. Filed Feb. 10, 1923.

HOME DOCTOR SALVE



No claim made to the word "Salve" aside from the mark shown, the portrait and autograph being that of applicant.

Particular description of goods.—Salves for Sores and Infections, Blood Poisoning, Cuts, Bruises, Sore Bones, and Skin Diseases.
Claims use since Dec. 15, 1918.

Ser. No. 175,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. D. ASKEGAARD, Moorhead, Minn. Filed Feb. 12, 1923.



Particular description of goods.—Potatoes in Their Natural State.
Claims use since May, 1922.

Ser. No. 175,953. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.

SEYMORITE

Particular description of goods.—Metals—Namely, Metal Alloys of Copper, Zinc, and Nickel in the Form of Tubes and Shells.
Claims use since Jan. 10, 1923.

Ser. No. 175,956. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.

SEYMORITE

Particular description of goods.—Metal Alloys of Copper, Zinc, and Nickel in the Form of Sheet Metal in Rolls, Sheets, and Strips; Wire in Coils, Blanks, Ingots, and Rods in Random and Exact Lengths.
Claims use since Jan. 10, 1923.

Ser. No. 175,972. (CLASS 39. CLOTHING.) THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Feb. 12, 1923.

KOVER KWICK

Particular description of goods.—Convertible Coats.
Claims use since Sept. 15, 1922.

Ser. No. 175,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) P. J. SCHUMACHER CO., INC., New York, N. Y. Filed Feb. 13, 1923.



No claim is made to the words "Crème," "Parfumerie," "New York," and "Beautifier" apart from the mark shown on the drawing.

Particular description of goods.—Face Cream and Powder.
Claims use since January, 1916.

Ser. No. 176,013. (CLASS 39. CLOTHING.) JOSEPH A. CLIFFORD, Philadelphia, Pa. Filed Feb. 14, 1923.

Equity

Particular description of goods.—Cotton, Wool, and Silk Hosiery for Men and Women.
Claims use since July, 1922.

Ser. No. 176,042. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES L. POOR CO., New York, N. Y. Filed Feb. 14, 1923.

NYMPH

Trade-mark consists of the word "Nymph."

Particular description of goods.—Cotton Piece Goods—Namely, Nainsook.
Claims use since Jan. 17, 1922.

Ser. No. 176,046. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SAMPSON-MARTIN CORPORATION, New York, N. Y. Filed Feb. 14, 1923.

FIT-FORM

Particular description of goods.—Hot-Water Bags and Hot-Water Bottles.
Claims use since May 22, 1922.

Ser. No. 176,155. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT BERNARD, New York, N. Y. Filed Feb. 17, 1923.

Weebits

Particular description of goods.—Candies.
Claims use since about Jan. 5, 1923.

Ser. No. 176,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT BERNARD, New York, N. Y. Filed Feb. 17, 1923.

Weebits
o'Sweetness

Particular description of goods.—Candies.
Claims use since about Jan. 5, 1923.

Ser. No. 176,165. (CLASS 37. PAPER AND STATIONERY.) JEROME I. COOK, doing business as Research Advertising Bureau, St. Louis, Mo. Filed Feb. 17, 1923.

NEW YEAR GET-AHEAD CLUB

Particular description of goods.—Blank-Form Books.
Claims use since Dec. 1, 1921.

Ser. No. 176,174. (CLASS 39. CLOTHING.) GERSON & BERNER, San Francisco, Calif. Filed Feb. 17, 1923.

KISMET

Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since May 1, 1922.

Ser. No. 176,216. (CLASS 39. CLOTHING.) RONALD A. REIFF, Pottstown, Pa. Filed Feb. 17, 1923.

DORIS

Particular description of goods.—Ladies' Knitted Underwear.
Claims use since Apr. 15, 1922.

Ser. No. 176,260. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOLEY & COMPANY, Chicago, Ill. Filed Feb. 19, 1923.



Particular description of goods.—Talcum Powder.
Claims use since July 17, 1922.

Ser. No. 176,275. (CLASS 39. CLOTHING.) LLOYD E. NICHOLSON, New York, N. Y. Filed Feb. 19, 1923.

WHIPPOORWILL

Particular description of goods.—Hosiery.
Claims use since Feb. 2, 1923.

Ser. No. 176,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REID, MURDOCH & Co., Chicago, Ill. Filed Feb. 19, 1923.

FARM HOUSE



Particular description of goods.—Baking Powder and Baking Soda.
Claims use since 1900.

Ser. No. 176,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD DRUG COMPANY, Los Angeles, Calif. Filed Feb. 19, 1923.

NEUREX

Particular description of goods.—Preparation Used in the Treatment of Kidney and Bladder Diseases, Prostate-Gland Trouble, Urinary Conditions, and Nervousness Resulting from Kidney and Bladder Weakness.
Claims use since Jan. 15, 1923.

Ser. No. 176,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD DRUG COMPANY, Los Angeles, Calif. Filed Feb. 19, 1923.

NEUGO

Particular description of goods.—Preparation Used in the Treatment of General Debility, Lost Vitality, Nervous Disorders, and Physical or Mental Weakness.
Claims use since Jan. 15, 1923.

Ser. No. 176,306. (CLASS 39. CLOTHING.) WYMAN, PARTRIDGE & Co., Minneapolis, Minn. Filed Feb. 19, 1923.



Particular description of goods.—Hosiery.
Claims use since Dec. 11, 1911.

Ser. No. 176,307. (CLASS 39. CLOTHING.) WYMAN, PARTRIDGE & Co., Minneapolis, Minn. Filed Feb. 19, 1923.

SENTINEL

Particular description of goods.—Underwear.
Claims use since Nov. 7, 1922.

Ser. No. 176,320. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERTHORN CHEMICAL CO., New York, N. Y. Filed Feb. 20, 1923.

TERŌSIN

Particular description of goods.—Chemical Preparation in Powdered Form Recommended for Relief of Acids and Gases in Stomach or Intestines.
Claims use since Jan. 10, 1923.

Ser. No. 176,322. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALCIUM PRODUCTS, INCORPORATED, Chicago, Ill. Filed Feb. 20, 1923.

Formula B

Particular description of goods.—Antiseptic, Astringent, and Deodorizing Lotion for the Mucous Membrane and Skin.
Claims use since Feb. 14, 1923.

Ser. No. 176,366. (CLASS 15. OILS AND GREASES.) REED OIL COMPANY, Rogers, Ark. Filed Feb. 20, 1923.

ARE SQUARE

Particular description of goods.—Lubricating Oils and Greases.
Claims use since June 13, 1922.

Ser. No. 176,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRITEX CHEMICAL PRODUCTS LIMITED, London, England. Filed Feb. 21, 1923.

Britol

Particular description of goods.—Disinfectants.
Claims use since Apr. 5, 1922.

Ser. No. 176,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PYRAID PRODUCTS CORPORATION, Newark, N. J. Filed Feb. 21, 1923.

PYRAID

Particular description of goods.—Mouth-Wash Preparation.
Claims use since Dec. 22, 1922.

Ser. No. 176,434. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STROOCK & COMPANY, INC., New York, N. Y. Filed Feb. 21, 1923.

Honeydew

Particular description of goods.—Pile Fabric in the Piece, Such Fabric Being Composed Entirely of Wool or Wool Mixed with Mohair or Camel's Hair, Either Alone or Combined.
Claims use since Mar. 1, 1918.

Ser. No. 176,440. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH BANCROFT & SONS COMPANY, Wilmington, Del. Filed Feb. 23, 1923.

Basco

Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 13, 1923.

Ser. No. 176,499. (CLASS 43. THREAD AND YARN.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Feb. 23, 1923.



Particular description of goods.—Yarns.
Claims use since May 1, 1910.

Ser. No. 176,519. (CLASS 39. CLOTHING.) WILKIN & ADLER, INC., New York, N. Y. Filed Feb. 23, 1923.

Donchester

Particular description of goods.—Ladies' Coats and Suits.
Claims use since Feb. 7, 1923.

Ser. No. 176,559. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELI LILLY & COMPANY, Indianapolis, Ind. Filed Feb. 24, 1923.

ANALGENTUM

Trade-mark "Analgentum."
Particular description of goods.—Medicinal Ointment Used for the Protection and Treatment of Wounds Involving Bone.
Claims use since Nov. 24, 1922.

Ser. No. 176,569. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PROGRESSIVE FARMER CO., Raleigh, N. C., and Birmingham, Ala. Filed Feb. 24, 1923.

THE PROGRESSIVE FARMER
AND FARM WOMAN

Particular description of goods.—Weekly Magazine.
Claims use since 1886.

Ser. No. 176,570. (CLASS 39. CLOTHING.) REX KNITTING CO., Little Falls, N. Y. Filed Feb. 24, 1923.

REX

Particular description of goods.—Sweaters and Men's Women's, and Children's Sweater Coats.
Claims use since Dec. 1, 1905.

Ser. No. 176,582. (CLASS 39. CLOTHING.) TROJAN MIDDY CO., INC., Troy, N. Y. Filed Feb. 24, 1923.

TROJAN MAID

Particular description of goods.—Middies, Smocks, and Children's Dresses.
Claims use since Aug. 1, 1919.

Ser. No. 176,599. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BROOKS CHEMICAL CO., New Cumberland, W. Va. Filed Feb. 26, 1923.



Particular description of goods.—Salve for Treating Sore Throat, Croup, Asthma, Colds, Headaches, and Sore Muscles.
Claims use since December, 1919.

Ser. No. 176,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MOUQUIN RESTAURANT AND WINE COMPANY, LIMITED, New York, N. Y. Filed Feb. 27, 1923.

Mouquin



Particular description of goods.—Olive Oil and Canned Fruits and Vegetables.
Claims use since Dec. 1, 1920.

Ser. No. 176,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRESERVING MUSHROOM CO., Cleveland, Ohio. Filed Feb. 27, 1923.

1000
THOUSAND ISLAND

The words "Thousand Island" are disclaimed except as a part of the composite mark shown.
Particular description of goods.—Salad Dressing.
Claims use since Oct. 1, 1921.

Ser. No. 176,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STANDARD ULTRAMARINE CO., Huntington, W. Va. Filed Feb. 27, 1923.



Particular description of goods.—Laundry Blue.
Claims use since Jan. 9, 1923.

Ser. No. 176,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. MERRITT COMPANY, INC., Norfolk, Va. Filed Feb. 28, 1923.

MAGNOLENE

Particular description of goods.—Floral Antiseptic Hair Tonic.
Claims use since 1909.

Ser. No. 176,749. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. MERRITT COMPANY, INC., Norfolk, Va. Filed Feb. 28, 1923.

Carbo-Magno

Particular description of goods.—Antiseptic Hair Grower.
Claims use since 1909.

Ser. No. 176,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSS COMPANY, New York, N. Y. Filed Feb. 28, 1923.

PERT

Particular description of goods.—Rouge.
Claims use since Nov. 29, 1922.

Ser. No. 176,772. (CLASS 39. CLOTHING.) DAVID WALLACH, doing business as Union Hosiery Company, New York, N. Y. Filed Feb. 28, 1923.

CARMEN

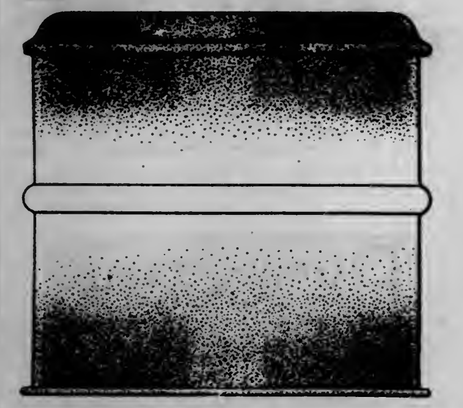
Trade-mark consists of the word "Carmen."
Particular description of goods.—Hosiery.
Claims use since Aug. 15, 1921.

Ser. No. 176,861. (CLASS 39. CLOTHING.) UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn. Filed Mar. 2, 1923.

DARNETTE

Trade-mark consists of the word "Darnette."
Particular description of goods.—Hosiery.
Claims use since Jan. 22, 1923.

Ser. No. 176,951. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND METAL PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 5, 1923.



Trade-mark consists of alternating relatively dark and light brown bands extending about each drum, the adjacent bands blending into each other; and the effect is produced, preferably, by coating the drums with a dark-brown enamel, spraying on white enamel to produce the contrasting bands, and hereafter subjecting the drums to heat for the purpose of burning on the enamel.
Particular description of goods.—Burner Drums.
Claims use since about January, 1916.

Ser. No. 176,964. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EDWARD ALFRED GRAHAM, doing business as Alfred Graham & Co., London, England. Filed Mar. 5, 1923.

ELECTRAVOX

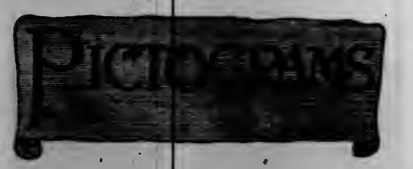
Particular description of goods.—Talking Machines and Parts Thereof.
Claims use since September, 1920.

Ser. No. 177,023. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOSEPH T. RYERSON & SON, Chicago, Ill. Filed Mar. 5, 1923.

RC

Particular description of goods.—Cone-Driven and Geared-Head Engine Lathes, Turret Lathes, Horizontal and Vertical Automatic Lathes, Plain and Universal Horizontal and Vertical and Circular Milling Machines, Cone and Motor Driven Upright Drilling Machines, and Radial Drills, Planing Machines, Vertical and Horizontal Boring Machines.
Claims use since about Jan. 1, 1921.

Ser. No. 177,055. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES FITZHUGH TALMAN, doing business as The Pictogram Company, Washington, D. C. Filed Mar. 6, 1923.



Particular description of goods.—Informational Picture Books Published in a Continuing Series.
Claims use since Jan. 20, 1923.

Ser. No. 177,112. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID SMART, Chicago, Ill. Filed Mar. 7, 1923.



Particular description of goods.—Title of Monthly Magazine.
Claims use since Oct. 15, 1922.

Ser. No. 177,118. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLIED FACTORIES CORPORATION, Kansas City, Mo. Filed Mar. 8, 1923.

SERVUBEST

Particular description of goods.—Household Electrical Devices, Particularly Electrical Griddles, Toasters, and Cooking and Heating Stoves.
Claims use since about Feb. 1, 1922.

Ser. No. 177,120. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Mar. 8, 1923.



The picture is fanciful.
Particular description of goods.—Hair Nets.
Claims use since Jan. 13, 1923.

Ser. No. 177,149. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TILTON & KEELER, INC., New York, N. Y. Filed Mar. 8, 1923.

CREPE ROMANCE

No claim made to the exclusive use of the word "Crepe" apart from the mark as shown on the drawing.
Particular description of goods.—Silk and Cotton Crêpe in the Piece.
Claims use since July 1, 1922.

Ser. No. 177,167. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH J. COSIN, doing business as The Cosin Co., New York, N. Y. Filed Mar. 9, 1923.



No claim made to the representation of a powder puff apart from the mark as shown on the drawing.
Particular description of goods.—Powder Puffs.
Claims use since December, 1921.

Ser. No. 177,184. (CLASS 39. CLOTHING.) GRUNWALD, FRIEDMAN & CO., INC., New York, N. Y. Filed Mar. 9, 1923.

Duralette

Particular description of goods.—Tailor-Made Dresses.
Claims use since Feb. 21, 1923.

Ser. No. 177,215. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CANTON FORGE & AXLE COMPANY, Canton, Ohio. Filed Mar. 10, 1923.

C

Particular description of goods.—Steel Forgings, Rail Anchors, Rail-Anchor Springs, and Railroad Switch Clamps.
Claims use since about Mar. 1, 1922.

Ser. No. 177,218. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ETNA RADIO CO. INC., New York, N. Y. Filed Mar. 10, 1923.

HERALD

Particular description of goods.—Loud-Speaking Telephones, Telephone Receivers, Telephone Transmitters, Telephone Plugs, Telephone Jacks, Switches, Rheostats, Transformers, Grid Leaks, Condensers, Variometers, Variocouplers, and Radiotuners.
Claims use since Nov. 1, 1922.

Ser. No. 177,229. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK O. KING, Chicago, Ill. Filed Mar. 10, 1923.

PAL

Particular description of goods.—Toy Dogs.
Claims use since Feb. 1, 1923.

Ser. No. 177,262. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ASBESTOS, LIMITED, New York, N. Y. Filed Mar. 12, 1923.

TRUE BLUE

Particular description of goods.—Paints.
Claims use since Feb. 1, 1923.

Ser. No. 177,284. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, doing business as Lincoln Knit Goods Mills, St. Louis, Mo. Filed Mar. 12, 1923.

"KING-O'WINTER"

Particular description of goods.—Sweaters.
Claims use since about Feb. 1, 1923.

Ser. No. 177,289. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY FREUND, Houston, Tex. Filed Mar. 12, 1923.

BIG HENRY

Particular description of goods—Power Whistles.
Claims use since Mar. 3, 1923.

Ser. No. 177,329. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROBERTSON LEATHER COMPANY, INC., New York, N. Y. Filed Mar. 12, 1923.

ULTIMUS

Trade-mark consists of the word "Ultimus."
Particular description of goods.—Leathers.
Claims use since Jan. 1, 1923.

Ser. No. 177,338. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WELBILT AUTO-BODY CO., Los Angeles, Calif. Filed Mar. 12, 1923.

WELBILT

Particular description of goods.—Vehicles, Particularly Automobile Bodies.
Claims use since about May 1, 1920.

Ser. No. 177,344. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNIVERSAL FEATURE & SPECIALTY COMPANY, Chicago, Ill. Filed Mar. 10, 1923.

DOO DADS

Particular description of goods.—Dolls and Puzzle Games.
Claims use since Sept. 12, 1922.

Ser. No. 177,395. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ANTON LINK, Chicago, Ill. Filed Mar. 13, 1923.

JIFFY.

Particular description of goods.—Combination Mop and Duster for Household Purposes.
Claims use since Jan. 24, 1923.

Ser. No. 177,458. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THOMAS M. SHURTZ, doing business as Manchester Handle & Turning Company, Manchester, Mich. Filed Mar. 14, 1923.

MANCHESTER HANDLE & TURNING CO.
CHAMPION

Particular description of goods.—Baseball Bats.
Claims use since Mar. 1, 1922.

Ser. No. 177,480. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. H. HOLBROOK COMPANY, Boston, Mass. Filed Mar. 15, 1923.

RESILINE

Particular description of goods.—All-Wool Textile Piece Goods Used Principally to Make Interlinings for Silk Neckwear.
Claims use since Mar. 15, 1922.

Ser. No. 177,538. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AUERLICHT GESELLSCHAFT M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany. Filed Mar. 16, 1923.

AUER-BEST

Particular description of goods.—Electric Household Appliances—Namely, Ovens, Stoves, Heaters; Cooking Utensils for Boiling, Broiling, Stewing, Steaming, Frying, Baking, and Roasting; Toasters, Grills, Coffee Percolators, Teapots, Boilers, Hair Driers, Sadirons, and Carpet Sweepers.
Claims use since June 1, 1922.

Ser. No. 177,576. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Mar. 16, 1923.

SO SOCONY NY
STANDARD OIL CO. OF NEW YORK

Particular description of goods.—Floor Oilers, Yarn Mops, Dust Cloths, and Yarn Dust Brushes.
Claims use since Feb. 26, 1908.

Ser. No. 177,597. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JOSEPH FAHYS & COMPANY, New York, N. Y. Filed Mar. 17, 1923.

MONARCH

Particular description of goods.—Watchcases.
Claims use since October, 1886.

Ser. No. 177,646. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ELMER C. A. BERGER, doing business as Berger & Company, Los Angeles, Calif. Filed Mar. 19, 1923.

"COP-SPOTTER"

Particular description of goods.—Rear-View Mirrors for Automobiles.
Claims use since July 1, 1919.

Ser. No. 177,660. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EXCELLA PATTERN COMPANY, New York, N. Y. Filed Mar. 19, 1923.

Excella

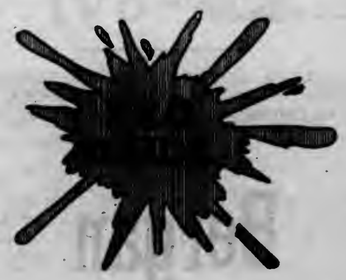
Particular description of goods.—Dress Patterns.
Claims use since about Feb. 1, 1922.

Ser. No. 177,661. (CLASS 38. PRINTS AND PUBLICATIONS.) EXCELLA PATTERN COMPANY, New York, N. Y. Filed Mar. 19, 1923.

Excella

Particular description of goods.—Periodicals Published in a Monthly Edition with Special Quarterly and Semi-annual Editions.
Claims use since about Feb. 1, 1922.

Ser. No. 177,684. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOSEPH A. MCNULTY, New York, N. Y. Filed Mar. 19, 1923.



The mark consists of an outline of a splotch of red pigment upon which the words "Red Oxide" appear in letters of a contrasting color. The words "Red Oxide" are disclaimed apart from the mark as shown on the drawing, which is lined to indicate the color red.
Particular description of goods.—Red Oxides.
Claims use since about Feb. 1, 1921.

Ser. No. 177,744. (CLASS 10. FERTILIZERS.) THE KRIPPENDORF-TUTTLE WHITE CLIFFS PRODUCTS CO., Cincinnati, Ohio. Filed Mar. 20, 1923.

K-T

Particular description of goods.—Fertilizers.
Claims use since Oct. 13, 1922.

Ser. No. 177,752. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SENORA PAINT WORKS, INC., Long Island City, N. Y. Filed Mar. 20, 1923.

SENECA



TRADE MARK

No claim is made to the words "Trade-Mark" apart from the mark shown on the drawing.
Particular description of goods.—Mixed Liquid Paints.
Claims use since Feb. 15, 1923.

Ser. No. 177,835. (CLASS 37. PAPER AND STATIONERY.) EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Mar. 22, 1923.



No claim made to the exclusive use of the representation of the pencil apart from the mark shown in the drawing.
Particular description of goods.—Lead Pencils.
Claims use since March, 1921.

Ser. No. 177,956. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) FREDERICK MARTIN BURNS, Mount Vernon, N. Y. Filed Mar. 24, 1923.

TUT-ANKH-AMEN

Particular description of goods.—Umbrellas and Parasols.
Claims use since Dec. 1, 1922.

Ser. No. 178,068. (CLASS 37. PAPER AND STATIONERY.) SIMPLICITY SALES COMPANY, Seattle, Wash. Filed Mar. 26, 1923.

SIMPLICITY

Particular description of goods.—Loose-Leaf Books of Accounting and Packages and Pages Therefor.
Claims use since Nov. 29, 1922.

Ser. No. 178,093. (CLASS 37. PAPER AND STATIONERY.) DENNISON MANUFACTURING CO., Framingham, Mass. Filed Mar. 27, 1923.



No registration rights are claimed for the word "Crêpe" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Crêpe Paper.
Claims use since 1914.

Ser. No. 178,193. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RENULIFE ELECTRIC CO., Detroit, Mich. Filed Mar. 28, 1923.

RenuLife

Particular description of goods.—Electric Therapeutic Apparatus, Including Violet-Ray Generators, Ozone Generators, Applicators and Appliances for Violet-Ray Generators Intended for Medical Use, Applicators and Appliances for Ozone Generators Designed for Medical Use.
Claims use since January, 1917.

Ser. No. 178,201. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SVERRE YOUNG, Christiania, Norway. Filed Mar. 28, 1923.



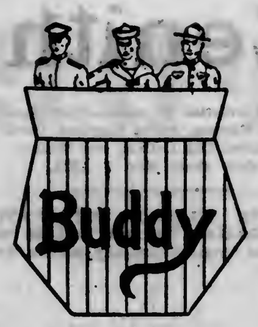
The exclusive use to the representation of a knapsack is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Knapsacks, Baggage and Luggage Devices, and Supporting Equipment Therefor.
Claims use since 1911.

Ser. No. 178,202. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SVERRE YOUNG, Christiania, Norway. Filed Mar. 28, 1923.

Bergan

Particular description of goods.—Knapsacks, Baggage and Luggage Devices, and Supporting Equipment Therefor.
Claims use since 1911.

Ser. No. 178,217. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BUDDY PRODUCTS CO., Chicago, Ill. Filed Mar. 29, 1923.



Particular description of goods.—Furniture Polish.
Claims use since Mar. 14, 1923.

Ser. No. 178,228. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CUTINO COMPANY, Kansas City, Mo. Filed Mar. 29, 1923.

IVO-WARE

No claim made to the word "Ware" apart from the mark shown.
Particular description of goods.—Toilet Mirrors and Ornamental Picture Frames Made of Plastic Material and Nonprecious Metal.
Claims use since April, 1921.

Ser. No. 178,230. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE CUTINO COMPANY, Kansas City, Mo. Filed Mar. 29, 1923.

IVO-WARE

No claim made to the word "Ware" apart from the mark shown.
Particular description of goods.—Hairbrushes.
Claims use since April, 1921.

Ser. No. 178,248. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) WALTER HENLE, doing business as Blackhawk Extract Company, Davenport, Iowa. Filed Mar. 29, 1923.

BLACKHAWK

Particular description of goods.—Malt Sirup.
Claims use since June 10, 1921.

Ser. No. 178,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) P. PASTENE & CO., INC., Boston, Mass. Filed Mar. 29, 1923.

PIEDIGROTTA

Particular description of goods.—Canned Peeled Tomatoes and Tomato Sauce.
Claims use since Apr. 9, 1912.

Ser. No. 178,283. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RAWLINGS MANUFACTURING CO., St. Louis, Mo. Filed Mar. 29, 1923.



The words "Manufacturers of High Grade Athletic Goods St. Louis" do not form a part of the mark sought to be registered apart from the mark shown in the drawing.
Particular description of goods.—Baseballs, Ball-Players' Gloves, and Ball-Players' Mitts.
Claims use since 1898.

Ser. No. 178,325. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BOYER NOVELTY COMPANY, Chicago, Ill. Filed Mar. 30, 1923.

Vanikit

The lines shown in connection with the trade-mark represent shading.
Particular description of goods.—Vanity Kits and Cases.
Claims use since March, 1922.

Ser. No. 178,366. (CLASS 15. OILS AND GREASES.) THE WESTERN RESERVE OIL COMPANY, Cleveland, Ohio. Filed Mar. 30, 1923.

PILGRIM

Particular description of goods.—Lubricating Oils and Greases.
Claims use since September, 1920.

Ser. No. 178,402. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NEW JERSEY ZINC COMPANY, Newark and Franklin, N. J. Filed Mar. 31, 1923.

MAPAZ

Particular description of goods.—Pastes for Paint Purposes—Namely, Zinc Oxide Ground in Oil, Lithopone Ground in Oil; Zinc Oxide and Lithopone Ground in Oil; and a Mixture Containing Zinc Oxide or Lithopone or Both Zinc Oxide and Lithopone and Another Pigment or an Inert Material Ground in Oil.
Claims use since Jan. 8, 1923.

Ser. No. 178,417. (CLASS 7. CORDAGE.) JOSEPH URSONE, doing business as Little Giant Tow Line Co., Columbus, Ohio. Filed Mar. 31, 1923.



The representation of a Towrope appearing on the drawing is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Automobile Towlines.
Claims use since about Sept. 15, 1922.

Ser. No. 178,490. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) BAKER BRUSH CO. INC., New York, N. Y. Filed Apr. 3, 1923.

WHITE HOUSE

The trade-mark consists of the words "White House."
Particular description of goods.—Paintbrushes.
Claims use since Aug. 1, 1912.

Ser. No. 178,533. (CLASS 8. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Apr. 5, 1923.

Zenith

Particular description of goods.—Pack Sacks, Saddles, Horse Collars, Harness, Storm Blankets, Horse Blankets, and Vehicle Robes, Dog Collars, and Whips.
Claims use since about Mar. 1, 1923.

Ser. No. 178,615. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILFRED LA LONE, doing business as Brillio Chemical Company, Seattle, Wash. Filed Apr. 5, 1923.



No claim is made to the words "A Perfect Polish" apart from the mark shown by the drawing.
Particular description of goods.—Polish and Cleaner for Automobiles, Phonographs, Hardwood Floors, Furniture, Stoves, Ranges, Pianos, Woodwork, Glass, Isinglass, Linoleum, Railway Coaches, Street Cars, Interurban Cars, and Ships.
Claims use since Oct. 1, 1919.

Ser. No. 178,633. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SOCIEDAD ANONIMA FINANCIERA Y COMERCIAL FUHRMANN LIMITADA, Buenos Aires, Argentina. Filed Apr. 5, 1923.

B^{CA}-FUHRMANN



Particular description of goods.—Wool.
Claims use since 1911.

Ser. No. 178,738. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1923.

904

Particular description of goods.—Lubricants Comprising Oils and Greases.
Claims use since Apr. 25, 1922.

Ser. No. 178,753. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LUBBERS AND BELL MANUFACTURING COMPANY, Clinton, Iowa. Filed Apr. 7, 1923.

BLOX-O

Particular description of goods.—Game Consisting of a Board Bearing a Series of Figures, a Checker Station at Each Corner, and a Set of Cooperating Checkers to be Used Therewith.
Claims use since Jan. 29, 1923.

Ser. No. 178,885. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TUT MANUFACTURING COMPANY, Los Angeles, Calif. Filed Apr. 9, 1923.



No claim is made to the word "Dolls" apart from the mark shown.
Particular description of goods.—Dolls.
Claims use since Mar. 30, 1923.

Ser. No. 178,949. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BAKER & CO., INC., Newark, N. J. Filed Apr. 11, 1923.

CONTURO

Particular description of goods.—Dental Band Material.
Claims use since July, 1919.

Ser. No. 178,950. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BAKER & CO., INC., Newark, N. J. Filed Apr. 11, 1923.

Swagcast

The lining in the drawing indicates shading, and not color.
Particular description of goods.—Dental Metal.
Claims use since Mar. 15, 1923.

Ser. No. 178,951. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BAKER & CO., INC., Newark, N. J. Filed Apr. 11, 1923.

Unicast

The lining in the drawing indicates shading, and not color.
Particular description of goods.—Dental Metal.
Claims use since Mar. 15, 1923.

Ser. No. 179,032. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CROWN BREWING CO., Cincinnati, Ohio. Filed Apr. 12, 1923.



Particular description of goods.—Malt or Cereal Beverage Containing Less Than One-Half of One Per Cent of Alcohol, by Volume, and the Malt Sirup for Making the Same.
Claims use since Dec. 1, 1921.

Ser. No. 179,046. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THOMAS B. KANE, doing business as Philadelphia Bottling Co., Philadelphia, Pa. Filed Apr. 12, 1923.

MOUNTAIN DEW

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since June 1, 1920.

Ser. No. 179,086. (CLASS 15. OILS AND GREASES.) BENZO-GAS MOTOR FUEL COMPANY, Kansas City, Mo. Filed Apr. 13, 1922.

Roadlite

Particular description of goods.—Liquid Motor Fuel.
Claims use since Mar. 15, 1923.

Ser. No. 179,092. (CLASS 20. LINOLEUM AND OILED CLOTH.) EMPIRE CARPET CO., New York, N. Y. Filed Apr. 13, 1923.

ELCO

Particular description of goods.—Floor Covering Made from Felt Saturated with Asphaltum and Coated on Both Surfaces.
Claims use since Nov. 15, 1920.

Ser. No. 179,098. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

CARBOR

Particular description of goods.—Bits and Augers.
Claims use since Oct. 11, 1922.

Ser. No. 179,099. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

DERRICKBOR

Particular description of goods.—Bits and Augers.
Claims use since Nov. 14, 1922.

Ser. No. 179,100. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

ENDBOR

Particular description of goods.—Bits and Augers.
Claims use since Oct. 11, 1922.

Ser. No. 179,101. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

SHIPBOR

Particular description of goods.—Bits and Augers.
Claims use since Nov. 16, 1922.

Ser. No. 179,102. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

SMOOTHBOR

Particular description of goods.—Bits and Augers.
Claims use since Oct. 27, 1922.

Ser. No. 179,103. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Apr. 13, 1923.

TAPBOR

Particular description of goods.—Bits and Augers.
Claims use since Jan. 4, 1923.

Ser. No. 179,130. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMERICAN CHARACTER DOLL CO., INC., New York, N. Y. Filed Apr. 14, 1923.

PETITE

No claim made to the exclusive use of the representation of a doll apart from the mark as shown on the drawing.
Particular description of goods.—Dolls.
Claims use since Mar. 29, 1923.

Ser. No. 179,131. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BAILEY & COMPANY, INC., Atlanta, Ga. Filed Apr. 14, 1923.

Kleenoil

Particular description of goods.—Piston Rings.
Claims use since Jan. 1, 1923.

Ser. No. 179,156. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LUBI-KOOL COMPANY, Casper, Wyo. Filed Apr. 14, 1923.

LUBI-KOOL

Particular description of goods.—Appliance for Lubricating and Cooling Internal-Combustion Engines.
Claims use since Mar. 27, 1923.

Ser. No. 179,169. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) M. R. SEGALL, doing business as M. R. Segall & Co., Baltimore, Md. Filed Apr. 14, 1923.

GREATER BALTIMORE

The words "Greater Baltimore" not claimed apart from the other features of the mark.
Particular description of goods.—Coal, Coke, and Charcoal.
Claims use since January, 1911.

Ser. No. 179,230. (CLASS 43. THREAD AND YARN.) SMITH & DOVE MANUFACTURING CO., Andover, Mass. Filed Apr. 16, 1923.

FIRMSTITCH

SMITH & DOVE M'F'G CO.

No registration rights are claimed for the words "Firm Stitch" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark nor any element thereof.
Particular description of goods.—Cotton Thread.
Claims use since 1905.

Ser. No. 179,293. (CLASS 15. OILS AND GREASES.) CATO OIL AND GREASE CO., Oklahoma, Okla. Filed Apr. 18, 1923.

WANDA

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Oct. 15, 1922.

Ser. No. 179,294. (CLASS 15. OILS AND GREASES.) CATO OIL AND GREASE CO., Oklahoma, Okla. Filed Apr. 18, 1923.

NOVIBE

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Oct. 15, 1922.

Ser. No. 179,383. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE W. SHEPPARD, San Francisco, Calif. Filed Apr. 19, 1923.

THE
KING TUT
ankh Amen
Game

In the mark no claim is made for the words "The Game" only as shown by their use to qualify the other portion of said trade-mark.
Particular description of goods.—Parlor Games.
Claims use since Mar. 20, 1923.

Ser. No. 179,395. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BUDDY-BOUNCER COMPANY, Dallas, Tex. Filed Apr. 20, 1923.

BUDDY
BOUNCER

Particular description of goods.—Seesaw Toy.
Claims use since about Mar. 6, 1923.

Ser. No. 179,516. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CENTRAL INDIANA COAL CO., Indianapolis, Ind. Filed Apr. 23, 1923.

AMBER JACKET SIX

Particular description of goods.—Coal.
Claims use since Sept. 10, 1918.

Ser. No. 179,575. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE L. S. WETMORE COMPANY, Stockton, Calif. Filed Apr. 23, 1923.

SUNFLAME

Particular description of goods.—Grape Juice.
Claims use since Feb. 2, 1923.

Ser. No. 179,614. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAH-JONGG SALES COMPANY OF AMERICA, San Francisco, Calif. Filed Apr. 24, 1923.

MAH-JONGG

Trade-mark consists of the words "Mah-Jongg."
Particular description of goods.—Dolls.
Claims use since March, 1923.

Ser. No. 179,683. (CLASS 37. PAPER AND STATIONERY.) JOHN L. SCHAEFER, New York, N. Y. Filed Apr. 25, 1923.

FLUSHAWAY

Trade-mark consists of the word "Flushaway."
Particular description of goods.—Paper Toilet-Seat Covers.
Claims use since Mar. 29, 1923.

Ser. No. 179,701. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Apr. 26, 1923.

PENPOINT

Particular description of goods.—Writing and Printing Paper and Mailing Envelopes.
Claims use since Mar. 16, 1922.

Ser. No. 179,712. (CLASS 37. PAPER AND STATIONERY.) JOHN D. CARDINELL, doing business as Cardinell Vellum Mfg. Co., Montclair, N. J. Filed Apr. 26, 1923.

Peervell

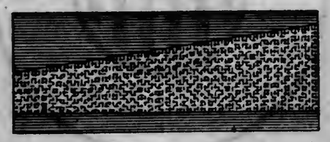
Particular description of goods.—Tracing Paper.
Claims use since Feb. 2, 1923.

Ser. No. 179,713. (CLASS 37. PAPER AND STATIONERY.) JOHN D. CARDINELL, doing business as Cardinell Vellum Mfg. Co., Montclair, N. J. Filed Apr. 26, 1923.

Velparch

Particular description of goods.—Tracing Paper.
Claims use since Feb. 25, 1922.

Ser. No. 179,729. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HERBRAND COMPANY, Fremont, Ohio. Filed Apr. 26, 1923.



The drawing is lined to indicate blue top and bottom bands and a yellow center band.
Particular description of goods.—Wrenches of All Kinds, Pliers, Hammers, Screw Drivers, and Chisels.
Claims use since Dec. 1, 1922.

Ser. No. 179,746. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LEWIS L. SCOTT, St. Louis, Mo. Filed Apr. 26, 1923.

STREAMLINE

Particular description of goods.—Golf Clubs.
Claims use since Mar. 15, 1923.

Ser. No. 179,754. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNCLE WIGGILY DOLL CO., New York, N. Y. Filed Apr. 26, 1923.

Uncle Wiggily

Particular description of goods.—Dolls Simulating Animal Characters.
Claims use since May, 1920.

Ser. No. 179,840. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ABE CORENSON, Los Angeles, Calif. Filed Apr. 24, 1923.

THE FLAPPER

Particular description of goods.—Combination Headdress and Waistband for Dolls.
Claims use since July 21, 1922.

Ser. No. 179,846. (CLASS 37. PAPER AND STATIONERY.) MELLEN T. BIRD, doing business as M. T. Bird & Co., Boston, Mass. Filed Apr. 28, 1923.



Particular description of goods.—Correspondence Paper, Correspondence Cards, Envelopes, and Boxes Containing the Same.
Claims use since January, 1889.

Ser. No. 179,868. (CLASS 37. PAPER AND STATIONERY.) JOSEPH HOOZ, doing business as Buffalo Paper & Post Card Co., Philadelphia, Pa. Filed Apr. 28, 1923.



Particular description of goods.—Cover and Writing Paper, Envelopes, and Wrapping Paper.
Claims use since Sept. 10, 1918.

Ser. No. 179,911. (CLASS 37. PAPER AND STATIONERY.) WORTENDIKE MANUFACTURING CO., Richmond, Va. Filed Apr. 28, 1923.

WARREN

Particular description of goods.—Toilet Paper.
Claims use since Jan. 1, 1923.

Ser. No. 180,183. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE HOWDY COMPANY, St. Louis, Mo. Filed May 4, 1923.

GOO GOO

Particular description of goods.—Grape-Flavored Concentrate for Making a Grape-Flavored Sugar Drink.
Claims use since about Feb. 24, 1923.

Ser. No. 180,249. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed May 5, 1923.

Merusol

Particular description of goods.—Liquid Petrolatum, a Highly-Refined and White Mineral-Oil Distillate Not Manufactured for a Medicine or Remedial Purposes.
Claims use since Oct. 15, 1914.

Ser. No. 180,503. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed May 11, 1923.

SINCLAIR

Particular description of goods.—Refined, Semirefined, and Unrefined Oils Made from Petroleum, Both with and without Admixture of Animal, Vegetable, or Mineral Oils, for Illuminating, Burning, Power, Fuel, and Lubricating Purposes.
Claims use since Apr. 23, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 19, 1923.

169,435. BURLAP BAGS. BEMIS BRO. BAG CO., St. Louis, Mo.
Filed December 19, 1922. Serial No. 173,555. PUBLISHED MARCH 20, 1923.

169,436. A COMPOSITION FOR USE IN HARDENING CEMENT AND FOR FURNISHING A FINISH TO THE PRODUCTS AFTER SETTING. THE SULLIVAN COMPANY, Memphis, Tenn.
Filed December 13, 1922. Serial No. 173,305. PUBLISHED MARCH 27, 1923.

169,437. METAL CLEANING AND POLISHING POWDER. CATHERINE PASKOCIL, Cleveland, Ohio.
Filed December 13, 1922. Serial No. 173,296. PUBLISHED MARCH 20, 1923.

169,438. A CONCRETE HARDENER AND ACCELERATOR. SEMET-SOLVAY COMPANY, Solvay, N. Y.
Filed December 12, 1922. Serial No. 173,250. PUBLISHED MARCH 27, 1923.

169,439. MONTHLY PERIODICAL. SAN ANTONIO BIBLE INSTITUTE, INC., San Antonio, Tex.
Filed December 11, 1922. Serial No. 173,215. PUBLISHED MARCH 20, 1923.

169,440. ELECTRIC-LIGHTING FIXTURES. COLONIAL LAMP & FIXTURE WORKS, Chicago, Ill.
Filed December 11, 1922. Serial No. 173,177. PUBLISHED MARCH 27, 1923.

169,441. ELECTRIC-LIGHTING FIXTURES. COLONIAL LAMP & FIXTURE WORKS, Chicago, Ill.
Filed December 11, 1922. Serial No. 173,176. PUBLISHED MARCH 27, 1923.

169,442. NAME OR TITLE OF A WEEKLY NEWSPAPER PUBLISHED BY SAID CORPORATION. WALKER PUBLISHING CO., Aurora and Marionville, Mo.
Filed December 9, 1922. Serial No. 173,159. PUBLISHED MARCH 20, 1923.

169,443. READY-MIXED PAINTS FOR INSIDE AND OUTSIDE USE. CHARLES M. CHILDS & CO. INC., Brooklyn, N. Y.
Filed December 7, 1922. Serial No. 173,031. PUBLISHED MARCH 20, 1923.

169,444. RADIO PARTS—NAMELY, SWITCHES, CONDENSERS, TUNING COILS, LAMP SOCKETS, TUBES, DETECTORS, TRANSFORMERS, AMPLIFIERS, COILS. FALLKILL RADIO & ELECTRICAL CO., Poughkeepsie, N. Y.
Filed December 6, 1922. Serial No. 172,983. PUBLISHED MARCH 27, 1923.

169,445. POLISH FOR AUTOMOBILES AND FOR PAINTED, VARNISHED, AND LACQUERED SURFACES. BYRNE-LINN PRODUCTS CO., Chicago, Ill.
Filed December 4, 1922. Serial No. 172,860. PUBLISHED MARCH 20, 1923.

169,446. PAINT PIGMENTS, ESPECIALLY LITHOPONE AND CADMIUM YELLOW. THE KRESS PIGMENT & CHEMICAL COMPANY, Newport, Del.
Filed December 2, 1922. Serial No. 172,840. PUBLISHED MARCH 27, 1923.

169,447. SHEET MUSIC CONSISTING OF COMPOSITIONS FOR ORCHESTRA, BRASS BANDS, PIANOS, AND VOCALISTS. THE CIRCLE MUSIC PUBLISHING COMPANY, Cincinnati, Ohio.
Filed December 2, 1922. Serial No. 172,827. PUBLISHED MARCH 20, 1923.

169,448. ELECTRIC LIGHT AND POWER PLANT UNITS FOR FARMS, COUNTRY HOMES, STORES, ETC. UNIVERSAL ENGINEERING COMPANY, Maywood, Ill.
Filed December 1, 1922. Serial No. 172,810. PUBLISHED MARCH 27, 1923.

169,449. HANDKERCHIEFS. NATHAN M. COHEN, New York, N. Y.
Filed December 1, 1922. Serial No. 172,796. PUBLISHED MARCH 20, 1923.

169,450. ELECTRICAL MOTOR HORNS. UNITED ELECTRICAL MANUFACTURING CO., Adrian, Mich.
Filed December 1, 1922. Serial No. 172,787. PUBLISHED MARCH 27, 1923.

169,451. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. ENTERPRISE PAINT MFG. CO., Chicago, Ill.
Filed December 1, 1922. Serial No. 172,785. PUBLISHED MARCH 20, 1923.

169,452. DRAWING INK, INDELIBLE INK, MARKING INK, PRINTING INK, WRITING INK, INK FOR STAMPS, AND POWDERS FOR PRODUCING INKS. BARNÄNGENS TECKN. FABRIKERS A BOLAG, Stockholm, Sweden.
Filed December 1, 1922. Serial No. 172,722. PUBLISHED MARCH 27, 1923.

169,453. DRAWING INK, INDELIBLE INK, MARKING INK, PRINTING INK, WRITING INK, INK FOR STAMPS, AND POWDERS FOR PRODUCING INKS. BARNÄNGENS TECKN. FABRIKERS A. B., Stockholm, Sweden.
Filed December 1, 1922. Serial No. 172,720. PUBLISHED MARCH 27, 1923.

169,454. CERTAIN NAMED ELECTRICAL APPARATUS. THE JOHNS-PRATT COMPANY, Hartford, Conn.
Filed November 29, 1922. Serial No. 172,680. PUBLISHED MARCH 27, 1923.

169,455. COTTON PIECE GOODS. MINOT, HOOPER & CO., New York, N. Y.
Filed January 27, 1923. Serial No. 175,204. PUBLISHED MARCH 20, 1923.

169,456. HAIR NETS. PARISTYLE NOVELTY CO. INC., New York, N. Y.
Filed January 26, 1923. Serial No. 175,154. PUBLISHED MARCH 20, 1923.

169,457. COTTON GOODS IN THE PIECE. VIRGINIA COTTON MILLS, Swepsonville, N. C.
Filed January 24, 1923. Serial No. 175,043. PUBLISHED MARCH 20, 1923.

169,458. RADIODETECTORS OF THE CRYSTAL TYPE. ORRIN W. TOWNER, doing business as Two Laboratories, Kansas City, Mo.
Filed January 22, 1923. Serial No. 174,947. PUBLISHED MARCH 27, 1923.

169,459. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,940. PUBLISHED MARCH 20, 1923.

169,460. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,939. PUBLISHED MARCH 20, 1923.

169,461. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,937. PUBLISHED MARCH 20, 1923.

169,462. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,936. PUBLISHED MARCH 20, 1923.

169,463. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,934. PUBLISHED MARCH 20, 1923.

169,464. PETROLEUM AND PRODUCTS OF PETROLEUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed January 22, 1923. Serial No. 174,931. PUBLISHED MARCH 20, 1923.

169,465. FIRE BRICK. STEVENS BROTHERS AND COMPANY, Atlanta, Ga.
Filed January 17, 1923. Serial No. 174,706. PUBLISHED MARCH 27, 1923.

169,466. INCANDESCENT LAMPS. NITROGEN ELECTRIC COMPANY, Newark, N. J.
Filed December 19, 1922. Serial No. 173,577. PUBLISHED MARCH 27, 1923.

169,467. FRICTION COMPOUND FOR BRAKE LININGS, TRANSMISSION BELTS, CONE CLUTCHES, AND SIMILAR FRICTION SURFACES. ARMIGER CHEMICAL CO., Chicago, Ill.
Filed December 21, 1922. Serial No. 173,618. PUBLISHED MARCH 20, 1923.

169,468. ELECTRICALLY-HEATED HOT PLATES AND FLATIRONS. CENTRAL FLATIRON MFG. CO., Johnson City, N. Y.
Filed December 21, 1922. Serial No. 173,622. PUBLISHED MARCH 27, 1923.

169,469. SOAP. LADY JANIS PERFUME CO., Chicago, Ill.
Filed December 21, 1922. Serial No. 173,653. PUBLISHED MARCH 20, 1923.

169,470. SOAP. THE REMILLER CO., New York, N. Y.
Filed December 21, 1922. Serial No. 173,673. PUBLISHED MARCH 20, 1923.

169,471. PAINTS (READY MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 21, 1922. Serial No. 173,680. PUBLISHED MARCH 20, 1923.

169,472. PAINTS (READY MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 21, 1922. Serial No. 173,681. PUBLISHED MARCH 20, 1923.

169,473. SPECTACLE CASES. PRESSTO LEATHER PRODUCTS CORPORATION, Brooklyn and New York, N. Y.
Filed December 22, 1922. Serial No. 173,720. PUBLISHED MARCH 20, 1923.

169,474. PAINTS (READY MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 23, 1922. Serial No. 173,789. PUBLISHED MARCH 20, 1923.

169,475. PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 23, 1922. Serial No. 173,787. PUBLISHED MARCH 20, 1923.

169,476. HOT-WATER BOTTLES, HOT-WATER BAGS, AND SYRINGES. JORDAN MARSH COMPANY, Boston, Mass.
Filed December 27, 1922. Serial No. 173,889. PUBLISHED MARCH 20, 1923.

169,477. EMERGENCY GASOLINE AND OIL TANKS. JAMES C. MEWSHAW, doing business as J. C. M. Accelerator Company, Baltimore, Md.
Filed December 30, 1922. Serial No. 174,021. PUBLISHED FEBRUARY 27, 1923.

169,478. RADIO EQUIPMENT—NAMELY, STATORS, ROTORS, VARIABLE COUPLING DEVICES, TRANSFORMERS, VACUUM TUBE AND TRANSFORMER SOCKETS. RADIO FREQUENCY LABORATORIES, INC., Boonton, N. J.
Filed January 6, 1923. Serial No. 174,260. PUBLISHED MARCH 27, 1923.

169,479. ELECTRIC MOTORS. THE AZOR MOTOR MFG. CO., Cleveland, Ohio.
Filed January 8, 1923. Serial No. 174,285. PUBLISHED MARCH 27, 1923.

169,480. SOAP. COLGATE & COMPANY, Jersey City, N. J.
Filed January 8, 1923. Serial No. 174,292. PUBLISHED MARCH 20, 1923.

169,481. TOILET SOAPS. LAMBORN & COMPANY, New York, N. Y.
Filed January 10, 1923. Serial No. 174,397. PUBLISHED MARCH 20, 1923.

169,482. ALUMINUM AND METAL POLISH. SPICKY POLISH CORPORATION, San Francisco, Calif.
Filed January 12, 1923. Serial No. 174,539. PUBLISHED MARCH 20, 1923.

169,483. BATTERIES AND PARTS THEREOF. HOOD RUBBER COMPANY, Watertown, Mass.
Filed January 13, 1923. Serial No. 174,577. PUBLISHED MARCH 27, 1923.

169,484. VARNISH STAIN. BAKER PAINT & VARNISH CO., Jersey City, N. J.
Filed January 15, 1923. Serial No. 174,603. PUBLISHED MARCH 20, 1923.

169,485. FLINT PAPER AND CLOTH, GARNET PAPER AND CLOTH, EMERY PAPER AND CLOTH. AMERICAN GLUE COMPANY, Boston, Mass.
Filed January 16, 1923. Serial No. 174,648. PUBLISHED MARCH 20, 1923.

169,486. SISAL ROPE. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed April 18, 1919. Serial No. 117,596. PUBLISHED DECEMBER 30, 1919.

169,487. NEW ZEALAND HEMP ROPE. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed April 18, 1919. Serial No. 117,598. PUBLISHED DECEMBER 30, 1919.

169,488. CANNED FRUITS AND VEGETABLES. CHARLES G. SUMMERS & CO. INC., Baltimore, Md., assignors to The Torsch-Summers Co., Baltimore, Md.
Filed May 13, 1919. Serial No. 118,451. PUBLISHED NOVEMBER 2, 1920.

169,489. PIECE GOODS OF COTTON, SILK, OR WOOL, OR OF COMBINATIONS THEREOF. GARGOYLE TEXTILE CORPORATION, New York, N. Y.
Filed May 17, 1919. Serial No. 118,597. PUBLISHED NOVEMBER 4, 1919.

169,490. SOAP. TAYLOR AND ATKINSON, Washington, D. C., assignor to The Wells Process Company, Cleveland, Ohio, a Corporation of Ohio.
Filed November 4, 1919. Serial No. 124,556. PUBLISHED MAY 9, 1922.

169,491. METAL POLISH. BORSUM BROS., New York, N. Y., and Jersey City, N. J.
Filed September 23, 1920. Serial No. 137,512. PUBLISHED SEPTEMBER 5, 1922.

169,492. ARTISTIC PRINTS, COLOR PRINTS, PICTURE POST CARDS. GEORGI & CO., Leipzig, Saxony, Germany.
Filed September 23, 1920. Serial No. 137,521. PUBLISHED JANUARY 3, 1922.

169,493. MUSICAL INSTRUMENTS. LYON & HEALY, Chicago, Ill.
Filed June 3, 1921. Serial No. 148,605. PUBLISHED MARCH 27, 1923.

169,494. GARTERS AND ARM BANDS. STURM & SCHEINBERG, New York, N. Y.
Filed June 7, 1921. Serial No. 148,822. PUBLISHED MARCH 27, 1923.

169,495. LUBRICATING GREASES FORMED OF ANIMAL, VEGETABLE, OR MINERAL PRODUCTS. U. S. OIL & SUPPLY CO., Providence, R. I.
Filed June 9, 1921. Serial No. 148,904. PUBLISHED MARCH 20, 1923.

169,496. NONALCOHOLC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. TROPICAL FRUIT JUICE COMPANY, now by change of name The Smack Company, Chicago, Ill.
Filed September 17, 1921. Serial No. 153,058. PUBLISHED MAY 9, 1922.

169,497. WATCHES AND WATCHCASES. JOSEPH GOTTLIEB, doing business as Acorn Watch Case Co., New York, N. Y.
Filed October 18, 1921. Serial No. 154,269. PUBLISHED MARCH 27, 1923.

169,498. CLEANING POWDER FOR WATER-CLOSET BOWLS. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio.
Filed November 16, 1921. Serial No. 155,436. PUBLISHED FEBRUARY 28, 1922.

169,499. SALTED PEANUTS, PEANUT CANDIES, AND PEANUT BUTTER. LUMMIS & CO., Philadelphia, Pa.
Filed December 3, 1921. Serial No. 156,230. PUBLISHED JUNE 18, 1922.

169,500. ALARM CLOCKS. F. W. JANSEN CLOCK COMPANY, Chicago, Ill.
Filed January 7, 1922. Serial No. 157,615. PUBLISHED MARCH 27, 1923.

169,501. MOTORS FOR PLAYER PIANOS. MOTOR PLAYER CORPORATION, Chicago, Ill.
Filed January 30, 1922. Serial No. 158,630. PUBLISHED MARCH 27, 1923.

169,502. PAPER BOXES. F. N. BURT COMPANY, LIMITED, Buffalo, N. Y.
Filed February 18, 1922. Serial No. 159,494. PUBLISHED MARCH 20, 1923.

169,503. PAPER BOXES. F. N. BURT COMPANY, LIMITED, Buffalo, N. Y.
Filed February 18, 1922. Serial No. 159,495. PUBLISHED MARCH 20, 1923.

169,504. PISTON RINGS. THE COHAGAN PATENT PISTON RING MANUFACTURING COMPANY, Denver, Colo.
Filed March 2, 1922. Serial No. 160,046. PUBLISHED OCTOBER 10, 1922.

169,505. PAINT IN PASTE FORM. JOHN MCLEOD, (Bradford District), Haverhill, Mass.
Filed March 8, 1922. Serial No. 160,360. PUBLISHED MARCH 20, 1923.

169,506. PHONOGRAPHS AND PARTS THEREOF. O. W. RICHARDSON & CO., Chicago, Ill.
Filed October 21, 1922. Serial No. 171,038. PUBLISHED MARCH 27, 1923.

169,507. WATCHES. JOVIS WATCH CO., New York, N. Y.
Filed November 2, 1922. Serial No. 171,498. PUBLISHED MARCH 27, 1923.

169,508. DRESSING FOR MOTOR-VEHICLE TOPS AND LEATHER AND RUBBER GOODS. ALGER & MOWRY MANUFACTURING COMPANY, Stockton, Calif.
Filed November 6, 1922. Serial No. 171,606. PUBLISHED MARCH 20, 1923.

169,509. FINGER RINGS AND RING MOUNTINGS. SHIRLEY MANUFACTURING CO., Shreveport, La.
Filed November 10, 1922. Serial No. 171,820. PUBLISHED MARCH 27, 1923.

169,510. MUSIC ROLLS FOR SELF-PLAYING MUSICAL INSTRUMENTS. ITALIAN BOOK CO., New York, N. Y.
Filed November 13, 1922. Serial No. 171,922. PUBLISHED MARCH 27, 1923.

169,511. IMPRESSION COMPOUND. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y.
Filed November 13, 1922. Serial No. 171,946. PUBLISHED MARCH 20, 1923.

169,512. SHEET LATHING, NOT INCLUDING BOARDS CONTAINING PLASTER. SHEET LATHING CORPORATION, Syracuse, N. Y., assignor to Plastuc Mfg. Corporation, Syracuse, N. Y., a Corporation of New York.
Filed November 13, 1922. Serial No. 171,962. PUBLISHED MARCH 27, 1923.

169,513. STOVE POLISH. MORRIS SIEGEL, doing business as The Liko Co., Los Angeles, Calif.
Filed November 13, 1922. Serial No. 171,965. PUBLISHED MARCH 20, 1923.

169,514. RUBBER HEELS. TAUNTON RUBBER COMPANY, Taunton, Mass.
Filed November 13, 1922. Serial No. 171,969. PUBLISHED MARCH 27, 1923.

169,515. CERTAIN NAMED CEMENTS, AND ADHESIVES FOR LABELING. DEWEY AND ALMY CHEMICAL COMPANY, Cambridge, Mass.
Filed November 15, 1922. Serial No. 172,033. PUBLISHED MARCH 20, 1923.

169,516. BRASSIÈRES. NATURALINE CORSET COMPANY, Boston, Mass.
Filed November 16, 1922. Serial No. 172,116. PUBLISHED MARCH 27, 1923.

169,517. PASTE AND READY-MIXED PAINTS, VARNISHES, STAINS, AND ENAMEL PAINTS. UNITED PAINT-UP STORES INC., Reading, Pa.
Filed November 20, 1922. Serial No. 172,302. PUBLISHED MARCH 20, 1923.

169,518. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. WHITMAN & KEITH CO., Brockton, Mass.
Filed November 20, 1922. Serial No. 172,311. PUBLISHED MARCH 27, 1923.

169,519. MEN'S AND WOMEN'S HATS. DAVIS-POPE COMPANY INCORPORATED, Norwalk, Conn.
Filed November 27, 1922. Serial No. 172,585. PUBLISHED MARCH 27, 1923.

169,520. ELECTRIC SUCTION SWEEPERS. THE HOOVER SUCTION SWEEPER COMPANY, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio.
Filed November 27, 1922. Serial No. 172,594. PUBLISHED MARCH 27, 1923.

169,521. BOXES OR RECEPTACLES OF VARIOUS SHAPES AND SIZES MADE OF NONPRECIOUS SHEET METAL, PAPER, AND PAPERBOARD. THE TIN DECORATING COMPANY OF BALTIMORE, Baltimore, Md.
Filed November 27, 1922. Serial No. 172,619. PUBLISHED MARCH 20, 1923.

169,522. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE FABRICS. EDWIN CLAPP & SONS, INC., East Weymouth, Mass.
Filed November 28, 1922. Serial No. 172,639. PUBLISHED MARCH 27, 1923.

169,523. SOAP. THE N. RIESER COMPANY, INC., now by change of name, The Rieser Company, Inc., New York, N. Y.
Filed November 28, 1922. Serial No. 172,654. PUBLISHED MARCH 20, 1923.

169,524. SOAP. THE N. RIESER COMPANY, INC., now by change of name, The Rieser Company, Inc., New York, N. Y.
Filed November 28, 1922. Serial No. 172,655. PUBLISHED MARCH 20, 1923.

169,525. SOAP. THE N. RIESER COMPANY, INC., now by change of name, The Rieser Company, Inc., New York, N. Y.
Filed November 28, 1922. Serial No. 172,656. PUBLISHED MARCH 20, 1923.

169,526. SHELLAC, SHELLAC GUMS, SHELLAC VARNISHES, VARNISH MADE WITH GUMS AND COPALS, SHELLAC PAINTS, READY-MIXED PAINTS, DRY OR PASTE PAINTS. ADOLPHE HURST & COMPANY, INC., New York, N. Y.
Filed April 5, 1922. Serial No. 161,777. PUBLISHED MARCH 20, 1923.

169,527. CARRYALL OR BAG FOR AUTOMOBILES. CLYDE B. STANTON, Walla Walla, Wash.
Filed May 3, 1922. Serial No. 163,295. PUBLISHED MARCH 20, 1923.

169,528. CLEANING PREPARATION FOR CERTAIN NAMED GOODS. INEZ N. EATON, Gorham, N. H.
Filed June 12, 1922. Serial No. 165,359. PUBLISHED DECEMBER 26, 1922.

169,529. LAUNDRY IRONING MACHINES. THE UTENSILS COMPANY, Fort Wayne, Ind.
Filed June 16, 1922. Serial No. 165,612. PUBLISHED MARCH 27, 1923.

169,530. EDIBLE ICE-CREAM CONTAINERS OF THE GENERAL NATURE OF SO-CALLED ICE-CREAM CONES. JACK FROST SALES AGENCY, Chicago, Ill.
Filed June 30, 1922. Serial No. 166,299. PUBLISHED MARCH 20, 1923.

169,531. WILTON CARPETS. PHILADELPHIA CARPET COMPANY, Philadelphia, Pa.
Filed July 8, 1922. Serial No. 166,604. PUBLISHED MARCH 20, 1923.

169,532. MEN'S GARTERS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed July 10, 1922. Serial No. 166,710. PUBLISHED MARCH 27, 1923.

169,533. BOYS', MEN'S, AND WORK SHIRTS. MOHAWK SHIRT CO., New York, N. Y.
Filed July 14, 1922. Serial No. 166,893. PUBLISHED FEBRUARY 20, 1923.

169,534. CERTAIN NAMED FOOTWEAR. RICHARDS & BRENNAN CO., Randolph, Mass.
Filed July 17, 1922. Serial No. 167,011. PUBLISHED MARCH 27, 1923.

169,535. COTTON PANTS, KHAKI PANTS, WORK SHIRTS, AND OVERALLS. GREENBERG-KANTOR COMPANY, Kansas City, Mo.
Filed August 10, 1922. Serial No. 168,033. PUBLISHED JANUARY 30, 1923.

169,536. GUN CASES, RIFLE CASES, REVOLVER AND PISTOL HOLDERS, AND PISTOL BELTS. WILLIAMSPORT LEATHER GOODS COMPANY, Williamsport, Pa.
Filed August 17, 1922. Serial No. 168,396. PUBLISHED MARCH 20, 1923.

169,537. LUBRICATING OILS. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed September 6, 1922. Serial No. 169,143. PUBLISHED MARCH 20, 1923.

169,538. CLOTH BOARDS, BOLT BOARDS, FABRIC WINDERS, AND BRAID, LACE, AND RIBBON CARDS OR WINDERS. H. BRIDGMAN SMITH COMPANY, Brooklyn, N. Y.
Filed September 11, 1922. Serial No. 169,277. PUBLISHED MARCH 20, 1923.

169,539. COFFEE. A. ENGELHARD & SONS CO., Louisville, Ky.
Filed September 11, 1922. Serial No. 169,289. PUBLISHED FEBRUARY 27, 1923.

169,540. YEARLY ALMANACS. KARLSON, GORDONVILLE & JOHNSON, INCORPORATED, New York, N. Y.
Filed September 21, 1922. Serial No. 169,762. PUBLISHED MARCH 20, 1923.

169,541. RIBBONS AND HATBANDS IN PIECE AND BOLTS. COHEN & KRAUS, New York, N. Y.
Filed September 25, 1922. Serial No. 169,892. PUBLISHED MARCH 20, 1923.

169,542. SILK, LINEN, COTTON, AND JUTE PIECE GOODS AND MIXED PIECE GOODS. CLARENDON M'F'G COMPANY, New York, N. Y.
Filed September 29, 1922. Serial No. 170,054. PUBLISHED NOVEMBER 7, 1922.

169,543. CLOCKS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed October 3, 1922. Serial No. 170,235. PUBLISHED MARCH 27, 1923.

169,544. A SUBSTITUTE FOR TURPENTINE. JOHN MASON, doing business as Mason Mfg. Co., Sausalito and San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,395. PUBLISHED MARCH 20, 1923.

169,545. PERFUMED SOAP. J. GROSSMITH & SON, LIMITED, London, England.
Filed October 20, 1922. Serial No. 170,978. PUBLISHED MARCH 20, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

169,546. (CLASS 12. CONSTRUCTION MATERIALS.) ELLIOTT BAY MILL COMPANY, Seattle, Wash. Filed Nov. 6, 1922. Serial No. 171,631.

BIG TIMBER
PANELS

Particular description of goods.—Ply Wood Which is Glued Up of Three or More Thicknesses of Thin Veneer.
Claims use since Oct. 1, 1920.

169,547. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Dec. 23, 1922. Serial No. 173,740.

Close's

Particular description of goods.—Candy.
Claims use since January, 1915.

169,548. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PROGRESSIVE WEAVING CO., Camden, N. J. Filed Oct. 7, 1922. Serial No. 170,447.

SUPER SERVICE

Particular description of goods.—Padding or Covering for Flat-Work Ironers.
Claims use since May 7, 1921.

169,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUTTER-NUT CANDY COMPANY, INC., Pittsburgh, Pa. Filed Sept. 30, 1922. Serial No. 170,119

Butter-Nut

Particular description of goods.—Candies.
Claims use since Nov. 20, 1916.

169,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM UNDERWOOD COMPANY, Boston, Mass. Filed Aug. 5, 1922. Serial No. 167,856.

"Simplifry"

Particular description of goods.—Canned Codfish Cakes.
Claims use since Apr. 22, 1922.

169,551. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SHAW, WELSH & COMPANY, Galesburg, Ill. Filed July 29, 1922. Serial No. 167,587.

Simmer-Plate

Particular description of goods.—Metal Plates to Hold Heat and Evenly Distribute the Same Under the Bottom of the Cooking Vessels and Utensils.
Claims use since May 1, 1922.

169,552. (CLASS 12. CONSTRUCTION MATERIALS.) EVER-READY PASTE PACKING CO., Pittsburg, Kans. Filed July 7, 1922. Serial No. 166,556.

EVER-READY PASTE PACKING

Particular description of goods.—A Paste Packing for Steam Pipes.
Claims use since June 1, 1914.

169,553. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EMERSON DRUG CO., Baltimore, Md. Filed July 1, 1922. Serial No. 166,355.

GINGER-MINT JULEP

Particular description of goods.—Soft Drink.
Claims use since May 10, 1922.

169,554. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SPECTRO-CHROME INSTITUTE (INCORPORATED), Camden, N. J., and Philadelphia, Pa. Filed May 25, 1922. Serial No. 164,524.

SPECTRO-CHROME

Particular description of goods.—Apparatus for Treatment of Diseases by Spectrochrome Therapy.
Claims use since Apr. 26, 1920.

169,555. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAPPIN & WEBB LIMITED, Sheffield and London, England. Filed May 5, 1922. Serial No. 163,408.

MAPPIN PLATE

Particular description of goods.—Table and Household Ware Made From Precious Metal or Plated with Precious Metal.
Claims use since Jan. 1, 1914.

169,556. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EBERSON-LINDSLEY PAINT COMPANY, St. Louis, Mo. Filed Apr. 6, 1922. Serial No. 161,824.

TOP-KOTE

Particular description of goods.—Ready-Mixed Paint.
Claims use since Aug. 15, 1921.

169,557. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LESLIE I. KING, Columbus, Ohio. Filed Mar. 27, 1922. Serial No. 161,321.

HOOVER

Particular description of goods.—Toy Banks.
Claims use since about Feb. 17, 1922.

169,558. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LESLIE I. KING, Columbus, Ohio. Filed Mar. 27, 1922. Serial No. 161,319.

Brunswick

Particular description of goods.—Toy Banks.
Claims use since about Feb. 5, 1922.

169,559. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MOUQUIN RT. & WINE CO., INC., New York, N. Y. Filed Mar. 24, 1922. Serial No. 161,196.



Particular description of goods.—Soft Drink.
Claims use since Jan. 2, 1919.

169,560. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ARTHUR DORSEY, Brooklyn, N. Y. Filed Feb. 21, 1922. Serial No. 159,650.

Gravity

Particular description of goods.—Clocks.
Claims use since on or about Jan. 31, 1922.

169,561. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAPPIN & WEBB LIMITED, Sheffield and London, England. Filed Feb. 15, 1922. Serial No. 159,373.

TRIPLE DEPOSIT
MAPPIN & WEBB'S
PRINCE'S PLATE
LONDON & SHEFFIELD

No claim is made to the words, "Triple Deposit," "Prince's Plate," "Mappin & Webb's," and "London & Sheffield," apart from the mark shown in the drawing.
Particular description of goods.—Table and Household Ware Made from Precious Metal or Plated with Precious Metal.
Claims use since Nov. 24, 1919.

169,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORTON-PEW FISHERIES COMPANY, Gloucester, Mass. Filed Jan. 28, 1922. Serial No. 158,575.

Ready-to-Fry

Particular description of goods.—Canned Potatoes and Salt Fish Combined for Fish Cakes.
Claims use since Dec. 22, 1919.

169,563. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) INER-GUARD TUBE & RUBBER COMPANY, St. Louis, Mo. Filed Dec. 16, 1921. Serial No. 156,792.

INER-GUARD

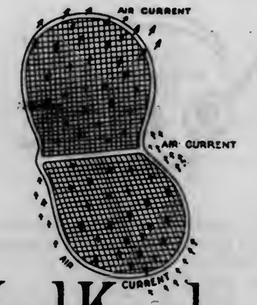
Particular description of goods.—Inner Tubes for Pneumatic Tires.
Claims use since about Dec. 10, 1921.

169,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH GERACE, Lebanon, Pa. Filed Oct. 17, 1921. Serial No. 154,187.

"HONEY-CAKE"

Particular description of goods.—Ice-Cream Cones.
Claims use since Apr. 10, 1921.

169,565. (CLASS 32. FURNITURE AND UPHOLSTERY.) ERSKINE POLK HARLEY, Oklahoma, Okla. Filed Sept. 22, 1921. Serial No. 153,212.



Kool Kooshion
For Komfort

Particular description of goods.—Fabricated Cushions Having Air-Circulation Space.
Claims use since Mar. 10, 1921.

169,566. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM W. BILLARD, doing business as Black Bear Coal Co., Baltimore, Md. Filed Apr. 27, 1923. Serial No. 179,772.

"Compare and Judge"

Particular description of goods.—Coal.
Claims use since May 1, 1920.

169,567. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DAYTON STEEL RACQUET COMPANY, Dayton, Ohio. Filed Apr. 18, 1923. Serial No. 179,296.

DAYTON

Particular description of goods.—Tennis Racquets.
Claims use since on or about Feb. 1, 1922.

169,568. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE MANCHESTER COAL CO., Manchester, Ala. Filed Apr. 14, 1923. Serial No. 179,157.

MANCHESTER
COAL

Particular description of goods.—Coal.
Claims use since Sept. 3, 1921.

169,569. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FRANK H. JENSEN, Boston, Mass. Filed Feb. 19, 1923. Serial No. 177,301.

Arch Cuff

Particular description of goods.—Arch Supporters, Foot Bands, and Chiropodist's Bandages.
Claims use for not less than one year.

169,570. (CLASS 2. RECEPTACLES.) BUFFALO BOX FACTORY, Buffalo, N. Y. Filed Mar. 7, 1923. Serial No. 177,069.

SAMSON

Particular description of goods.—Paper and Fiber Boxes.
Claims use since Jan. 1, 1921.

169,571. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KENTUCKY FRUIT LAXATIVE CO. INC., St. Louis, Mo. Filed Mar. 3, 1923. Serial No. 176,895.

Kentucky FRUIT Laxative

Particular description of goods.—Laxative Medicine.
Claims use since January, 1920.

169,572. (CLASS 39. CLOTHING.) NORTH BROS. & CO., Baltimore, Md. Filed Feb. 7, 1923. Serial No. 175,676.

Maryland
OX-TEX

Particular description of goods.—Men's and Boy's Dress and Negligee Shirts.
Claims use since about May, 1921.

169,573. (CLASS 39. CLOTHING.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 6, 1923. Serial No. 175,619.

"KeepWarm"

Particular description of goods.—Overcoats and Ulsters.
Claims use since Jan. 1, 1918.

169,574. (CLASS 39. CLOTHING.) NEW PROCESS COMPANY, Warren, Pa. Filed Feb. 6, 1923. Serial No. 175,618.

"Keepdry"

Particular description of goods.—Raincoats.
Claims use since Jan. 1, 1912.

169,575. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRUE TONE RADIO MFG. CO. (NOT INC.), Chicago, Ill. Filed Jan. 29, 1923. Serial No. 175,279.



Particular description of goods.—Radiotelephone Receivers and Wireless Telegraph and Telephone Receivers Commonly Known as Head Phones.
Claims use since Feb. 28, 1922.

169,576. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Jan. 10, 1923. Serial No. 174,402.

Lincoln

Particular description of goods.—Electric Laundry Washing Machines.
Claims use since Jan. 1, 1922.

TRADE-MARK REGISTRATIONS RENEWED.

23,179. TOOTHBRUSHES. Registered June 6, 1893. FLORENCE MANUFACTURING COMPANY, Florence, Mass.; New York, N. Y.; and Chicago, Ill. Renewed June 6, 1923.

23,193. GUITARS, MANDOLINS, BANJOS, AND ZITHERS. Registered June 13, 1893. W. J. DYER & BRO., St. Paul and Minneapolis, Minn. Renewed June 13, 1923.

23,258. LARD. Registered June 27, 1893. NORTH PACKING AND PROVISION COMPANY, Boston, Mass. Renewed June 27, 1923.

23,509. BRAIDED SASH CORD. Registered August 15, 1893. SAMSON CORDAGE WORKS, Boston, Mass. Renewed August 15, 1923.

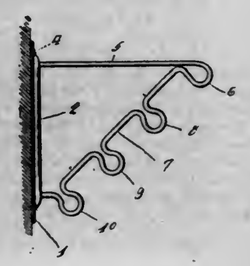
23,640. PROPORTIONAL DIVIDERS. Registered September 19, 1893. KEUFFEL & ESSER CO., Hoboken, N. J., and New York, N. Y. Renewed September 19, 1923.

23,670. AN OINTMENT OR JELLY FOR EXTERNAL USE. Registered October 3, 1893. CHARLES J. UHL. Renewed October 3, 1923, to Charles F. Uhl, Chicago, Ill., assignee.

REISSUES.

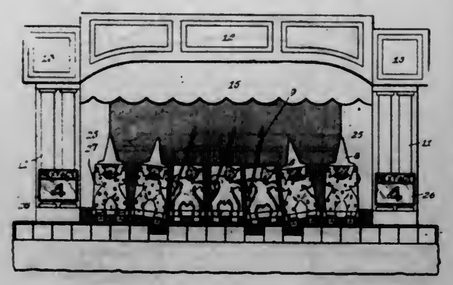
JUNE 19, 1923.

15,628. SUIT HANGER. WILLIAM F. WAGNER, Washington, D. C. Filed Apr. 3, 1923. Serial No. 629,721. Original No. 1,416,143, dated May 16, 1922, Serial No. 508,104, filed Oct. 17, 1921. 6 Claims. (Cl. 45—13.)



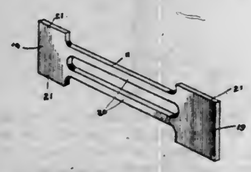
1. A device of the class described comprising a stamped metal base, having a central longitudinal rib pressed therefrom; and a hanger supporting member formed of a length of wire bent to provide two parallel portions, one being of a greater length than the other, extending from the base at opposite ends thereof and at right angles thereto, and a third connecting portion, joining the outer ends of the said two end portions, the said third portion being bent upon itself at spaced intervals to form outwardly projecting loops to support the hangers thereon.

15,629. AMUSEMENT DEVICE. WALTER C. HADLEY, New York, N. Y., assignor to Central Talking Machine Shop, Inc., New York, N. Y., a Corporation of New York. Filed May 10, 1923. Serial No. 638,355. Original No. 1,431,891, dated Oct. 10, 1922, Serial No. 404,969, filed Aug. 20, 1920. 5 Claims. (Cl. 46—40.)



1. An amusement device, comprising a block tapering from the base towards the top, a figure upon one face of the block and parallel projections upon the base of the block spaced apart from each other to rest upon two adjacent keys of a piano.

15,630. WALL STRUCTURE FOR CORNCRIBS AND THE LIKE. JOHN H. IBEY, Muscatine, Iowa, assignor to Portable Elevator Mfg. Co., Bloomington, Ill. Filed Feb. 1, 1922. Serial No. 533,421. Original No. 1,382,362, dated June 21, 1921, Serial No. 328,740, filed Oct. 6, 1919. 3 Claims. (Cl. 72—6.)



1. A course building element for a directly ventilated wall comprising head portions and connecting air admitting vermin guard parts therebetween, said head portions having parts projected above and below said connecting portions.

15,631. MANUFACTURE OF CORD TIRES. WILLIAM O'NEIL, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 11, 1923. Serial No. 631,478. Original No. 1,437,850, dated Dec. 5, 1922, Serial No. 427,676, filed Dec. 2, 1920. 3 Claims. (Cl. 91—68.)

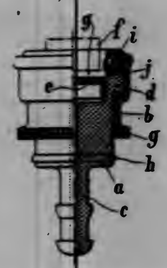


1. The process of preparing frictioned cord fabric adapted for use in the manufacture of cord tires which consists in treating in the manner hereinafter described a cord fabric comprising a multitude of warp cords and woven in fine filler threads, said warp cords being at such a distance apart as will permit them to move laterally, without coming into contact, to the extent to which they must move when the warp cords are completely straightened and the filler threads are consequently crimped, said treatment consisting in stretching the fabric lengthwise until all of the warp cords are straightened and all of the filler threads are made to bend up and down as they pass over and under alternate warp cords without deflecting said warp cords, and in forcing raw rubber onto both faces of the fabric and into the interstices between the warp cords while the various parts of the fabric are in the condition stated.

15,632. PIPE COUPLING. CAMILLE SENG, Romilly-sur-Seine, France. Filed June 24, 1921. Serial No. 480,235. Original No. 1,322,357, dated Nov. 18, 1919, Serial No. 68,431, filed Dec. 23, 1915. 3 Claims. (Cl. 285—96.)

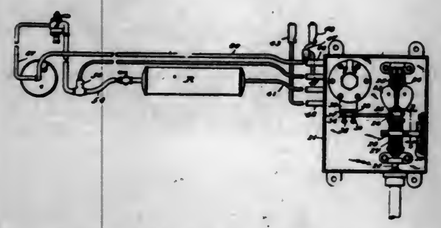
1. A coupling comprising a tubular member provided at one end with an external annular shoulder, said shoulder having substantially radial seats therein which are open at their inner and outer ends and communicate with the interior of the coupling, a ball in each of the seats, the outer end of each seat being open for the introduction

and removal of the ball and the inner end of the seats being restricted to permit of the ball extending a limited distance into the interior of the coupling, said coupling being provided with an internal shoulder inward of the seats, a slidable sleeve embracing the tubular member and normally closing the outer ends of the seats, said



sleeve having an internal shoulder for engagement with the inner end of the annular shoulder on the coupling member to limit movement of the sleeve in one direction, and a ring sprung into an external groove on the coupling member in position to limit movement of the sleeve in the opposite direction.

15,633. AUTOMATIC TRAIN-SPEED CONTROL. MAURICE E. HAMILTON, New York, N. Y., and WILLIAM H. JOHNSON, Terre Haute, Ind. Filed Apr. 19, 1923. Serial No. 633,221. Original No. 1,448,959, dated Mar. 20, 1923, Serial No. 357,217, filed Feb. 9, 1920. 14 Claims. (Cl. 303—21.)



1. The combination in an air brake system, of the main reservoir, the engineer's valve, a valve controlling outflow from the equalizing reservoir, a valve controlling flow from the main reservoir to the equalizing reservoir, speed-controlled means, and means actuated by said speed-controlled means for opening the second-mentioned valve and closing the third-mentioned valve upon the attainment of a desired maximum position by the speed-controlled means.

DESIGNS.

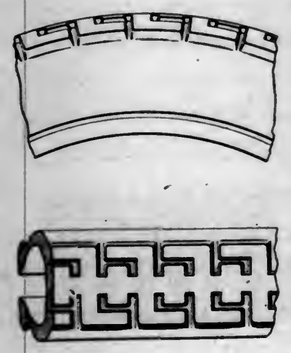
JUNE 19, 1923.

62,531. TEXTILE FABRIC. JOHN S. BOYD and THOMAS F. BOYD, Williamstown, Mass., assignors to John S. Boyd Co. Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Jan. 9, 1923. Serial No. 4,841. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

62,532. AUTOMOBILE TIRE. WILLIAM A. BRUBAKER, Akron, Ohio, assignor to The Lyon Rubber Co., Incorporated, Akron, Ohio. Filed July 6, 1920. Serial No. 394,369. Term of patent 14 years.



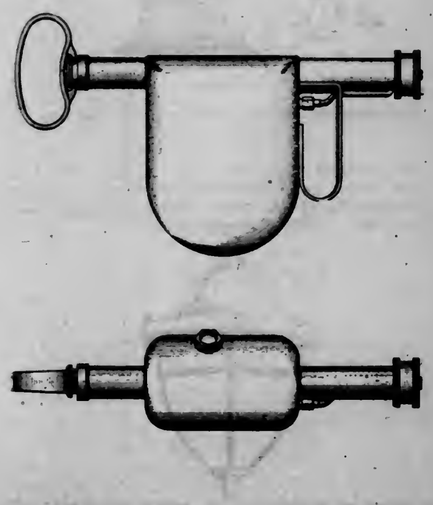
The ornamental design for an automobile tire substantially as shown.

62,533. TEXTILE FABRIC. EMILE ERICSON, Pelham, and ROGER WEISS, New York, N. Y., assignors to The Pennsylvania Textile Mills, Inc., Glenriddle, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 4,678. Term of patent 3½ years.



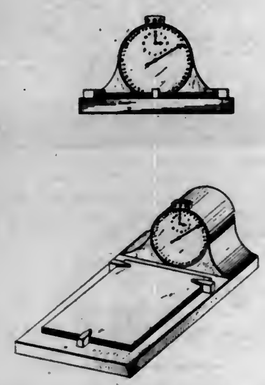
The ornamental design for a textile fabric, substantially as shown.

62,534. FIRE EXTINGUISHER. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1922. Serial No. 596. Term of patent 3½ years.



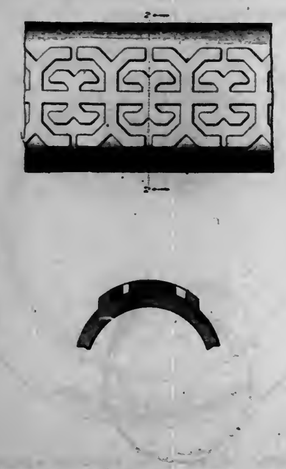
The ornamental design for a fire extinguisher as shown.

62,535. COMBINATION CLOCK STAND AND PAD SUPPORT. STANLEY S. MORRIS, New Orleans, La. Filed June 9, 1922. Serial No. 2,603. Term of patent 7 years.



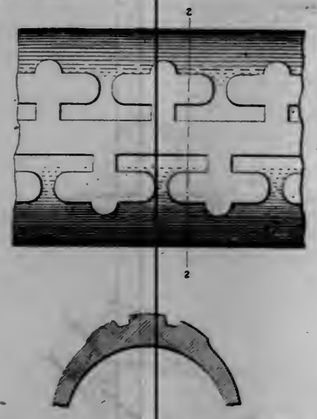
The ornamental design for a combination clock stand and pad support as shown.

62,536. RESILIENT TIRE. ROBERT IREDELL, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 15, 1922. Serial No. 2,261. Term of patent 14 years.



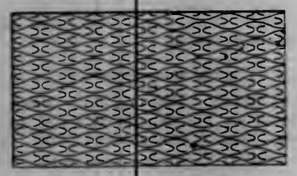
The ornamental design for a resilient tire as shown.

62,537. TIRE TREAD. HAROLD D. REICHARD, Akron, Ohio. Filed Feb. 8, 1922. Serial No. 606. Term of patent 14 years.



The ornamental design for a tire tread as shown.

62,538. SAFETY PAPER. RUDOLPH RUZICKA, Dobbs Ferry, N. Y., assignor to New Safety Paper Co., Boston, Mass., a Voluntary Association of Massachusetts. Filed Aug. 28, 1922. Serial No. 3,582. Term of patent 3½ years.



The ornamental design for safety paper, as shown.

62,539. RING. FREDERICK A. SHIMP, Philadelphia, Pa., assignor to Skillkrafters Incorporated, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 5, 1923. Serial No. 4,820. Term of patent 3½ years.



The ornamental design for a ring, as shown.

62,540. GIRL'S DRESS. GLADYS MATSON STEWART, Cincinnati, Ohio. Filed Apr. 5, 1922. Serial No. 1,545. Term of patent 3½ years.



The ornamental design for a girl's dress, as shown.

62,541. TOY WHISTLE. JOSEPH YOST, New York, N. Y. Filed Dec. 9, 1922. Serial No. 4,537. Term of patent 3½ years.



The ornamental design for toy whistle as shown.

62,542. LIGHT FIXTURE. EARL A. ANDERSON, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed July 3, 1922. Serial No. 2,937. Term of patent 14 years.



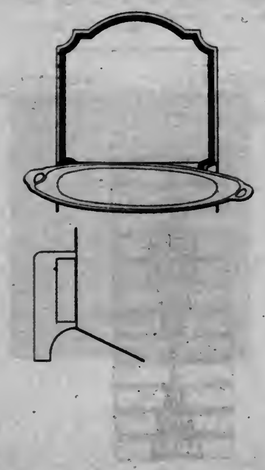
The ornamental design for a light-fixture as shown.

62,543. BASE FOR TERRESTRIAL AND CELESTIAL GLOBES AND THE LIKE. EDWARD H. BUSCH, Chicago, Ill., assignor to Weber Costello Company, Cook County, Ill., a Corporation of Illinois. Filed Mar. 8, 1922. Serial No. 1,004. Term of patent 14 years.



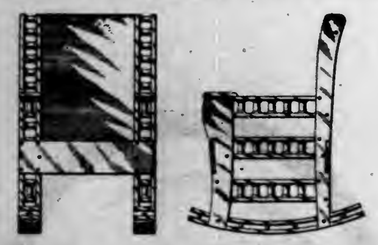
The ornamental design for a base for terrestrial and celestial globes and the like, substantially as shown.

62,544. ADVERTISING STAND. WALTER C. CARLSON, Milwaukee, Wis. Filed July 26, 1922. Serial No. 3,205. Term of patent 3½ years.



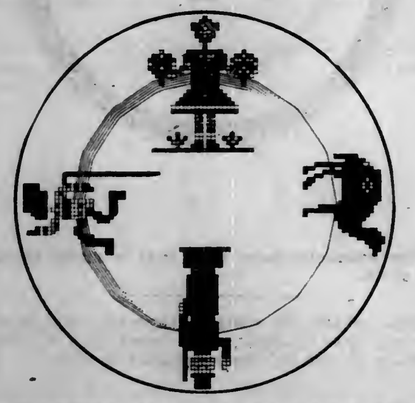
The ornamental design for an advertising stand as shown.

62,545. CHAIR. GEORGE DANIELS, St. Louis, Mo. Filed Aug. 8, 1922. Serial No. 3,325. Term of patent 14 years.



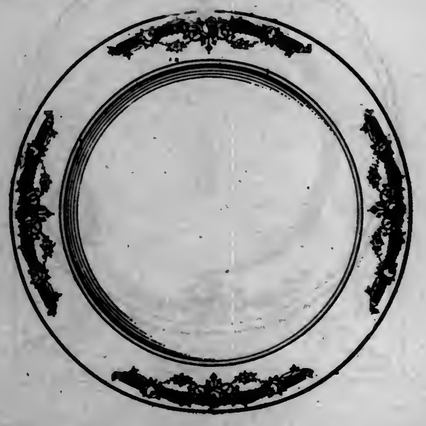
The ornamental design for a chair, as shown.

62,546. PLATE OR SIMILAR ARTICLE. WALTER DE VILLE, East Liverpool, Ohio. Filed Oct. 25, 1921. Serial No. 510,355. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

62,547. PLATE OR SIMILAR ARTICLE. WALTER DE VILLE, East Liverpool, Ohio. Filed Oct. 25, 1921. Serial No. 510,356. Term of patent 14 years.



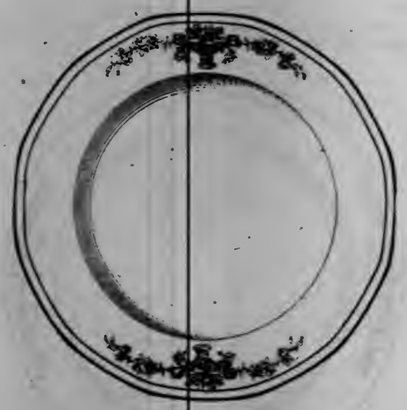
The ornamental design for a plate or similar article, as shown.

62,548. PLATE OR SIMILAR ARTICLE. WALTER DE VILLE, East Liverpool, Ohio. Filed Oct. 25, 1921. Serial No. 510,357. Term of patent 7 years.



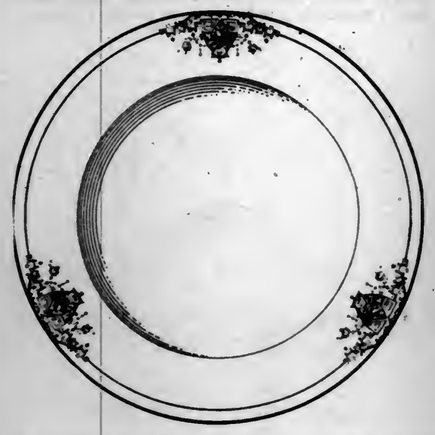
The ornamental design for a plate or similar article, as shown.

62,549. PLATE OR SIMILAR ARTICLE. WALTER DE VILLE, East Liverpool, Ohio. Filed Oct. 25, 1921. Serial No. 510,358. Term of patent 3½ years.



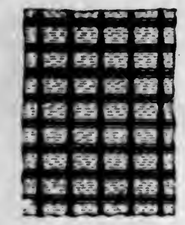
The ornamental design for a plate or similar article, as shown.

62,550. PLATE OR SIMILAR ARTICLE. WALTER DE VILLE, East Liverpool, Ohio. Filed Oct. 31, 1921. Serial No. 511,942. Term of patent 7 years.



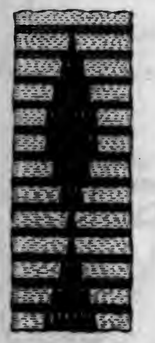
The ornamental design for a plate or similar article, as shown.

62,551. KNITTED FABRIC. HYMAN GUTTMAN, New York, N. Y. Filed Nov. 28, 1922. Serial No. 4,431. Term of patent 3½ years.



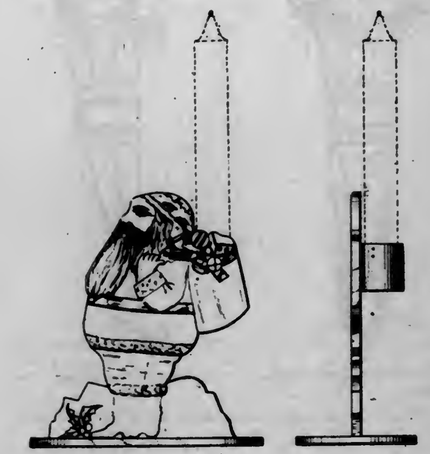
The ornamental design for a knitted fabric substantially as shown and described.

62,552. KNITTED FABRIC. HYMAN GUTTMAN, New York, N. Y. Filed Nov. 28, 1922. Serial No. 4,432. Term of patent 3½ years.



The ornamental design for a knitted fabric substantially as shown and described.

62,553. CANDLEHOLDER. AGNES M. HAWLEY, Syracuse, N. Y., assignor to Will & Baumer Candle Co., Inc., Syracuse, N. Y., a Corporation of New York. Filed July 20, 1922. Serial No. 3,143. Term of patent 14 years.



The ornamental design for a candleholder, substantially as shown and described.

62,554. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed July 3, 1922. Serial No. 2,943. Term of patent 3½ years.



The ornamental design for a textile fabric as shown and described.

62,555. HANDLE FOR A MANICURE ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,261. Term of patent 3½ years.



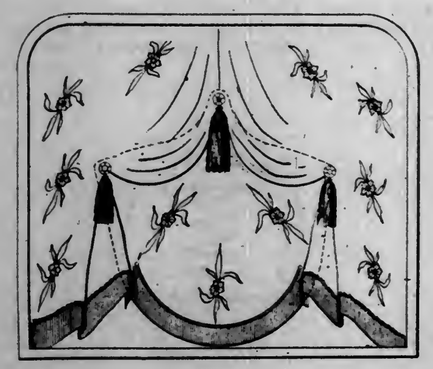
The ornamental design for a handle for a manicure article as shown.

62,556. HANDLE FOR A MANICURE ARTICLE. JOHN SALM, Torrance, Calif. Filed Dec. 16, 1920. Serial No. 431,264. Term of patent 3½ years.



The ornamental design for a handle for a manicure article, as shown.

62,557. AUTOMOBILE CURTAIN. JACOB SIEGEL, Chicago, Ill. Filed Sept. 5, 1922. Serial No. 3,627. Term of patent 7 years.



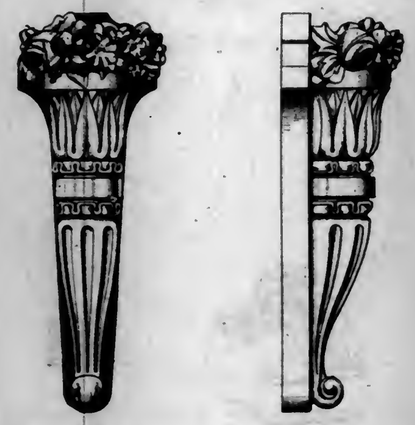
The ornamental design for an automobile curtain, as shown.

62,558. PEDESTAL. LORENZO ZUNINO, Berkeley, Calif. Filed June 5, 1922. Serial No. 2,525. Term of patent 3½ years.



The ornamental design for a pedestal, substantially as shown.

62,559. PLAQUE OR ORNAMENT. CHARLES T. COLLINS, Chicago, Ill., assignor to Donna Lee Perfumed Deodorant Company, a Partnership consisting of Harvey L. Boyer and Donna Lee Collins. Filed Dec. 19, 1922. Serial No. 4,643.. Term of patent 7 years.



The ornamental design for a plaque or ornament, as shown.

PATENTS

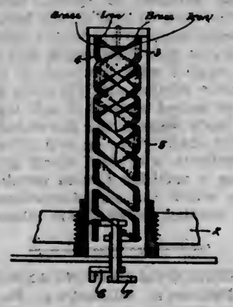
GRANTED JUNE 19, 1923.

1,458,923. ARTIFICIAL ARM. DUNCAN MACKENZIE ANDERSON, Mains, Germany. Filed June 8, 1922. Serial No. 565,760. 2 Claims. (Cl. 3—12.)



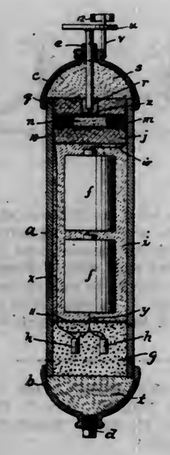
2. An artificial arm of the type described and shown comprising in combination with a pull rope attached with one end to a fixed point of the human body and with the other end to the forearm, a large rope pulley, and a small rope pulley, the axle upon which said rope pulleys are mounted situated in the axis of articulation of the shoulder joint, a straight guide for the pull rope, a pivot bolt for the forearm, a pair of arms connected with said pivot bolt having slots and designed to transfer the angular rotation of the rope pulleys to the forearm for making the same oscillate, a jointed cross mounted upon said axle of the shoulder joint, a slotted arm of said joint cross, a linear guide link upwardly extending from the pivot bolt of the forearm, an arm of said linear guide link, a stud projecting from said arm engaging with said slotted arm of the joint cross so that the joint cross is partly revolved, and rods rigidly connecting said joint cross with said pivot bolt for transferring the part rotation of the joint cross to the artificial forearm for oscillaing the same together with the artificial upper arm.

1,458,924. THERMOSTAT. HORACE F. BANAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1920. Serial No. 352,891. 26 Claims. (Cl. 297—16.)



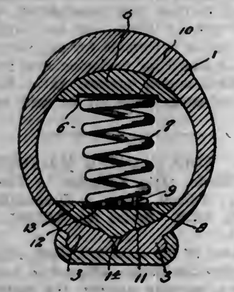
14. A thermostat comprising two helically-wound bimetallic members, the convolutions of which are mutually interfitting.

1,458,925. DETONATOR. JACOB BARAB, Atlantic City, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 18, 1921. Serial No. 470,591. 9 Claims. (Cl. 102—10.)



8. An electrically operable detonator comprising an explosive charge, a blasting cap, a generator, two disc terminals spaced apart and an open electric circuit from one terminal to the other including the blasting cap and generator, a casing in which the foregoing elements are contained, a circuit closing pin adapted to be driven from one disc terminal to the other and thereby close the electric circuit, and means mechanically controllable from a point outside the detonator to so operate the circuit closing pin.

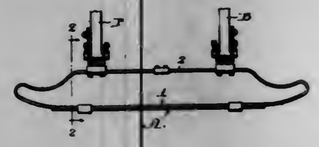
1,458,926. CUSHION TIRE. JUAN ANTONIO XERES BURGOS, Manila, P. I. Filed July 12, 1922, Serial No. 574,505. Renewed Mar. 7, 1923. 1 Claim. (Cl. 152—8.)



A cushion tire comprising a casing with transverse spaced flanges at the inner side of its outer portion and

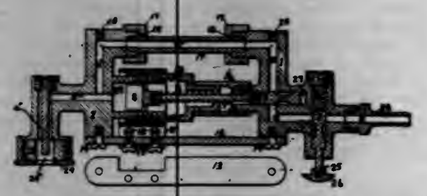
with spaced pairs of flanges at the inner sides of its inner portions, outer and inner seats and spacers removably arranged between said flanges and within the casing and having recesses in their opposed sides, wear plates removably arranged in said recesses, and convolute springs interposed between said wear plates and having terminal portions journaled on and connected to the wear plates.

1,458,927. BUMPER-ATTACHING BRACKET. WILLARD E. ERICSON, Evanston, Ill., assignor to Bifex Products Company, Waukegan, Ill., a Corporation of Delaware. Filed Feb. 12, 1923. Serial No. 618,583. 10 Claims. (Cl. 293—55.)



1. A bumper attaching bracket comprising companion plates adapted to be secured on opposite sides and at the end of a vehicle frame member, said plates being provided at their forward ends with U-shaped clips extending inwardly at right angles to said plates, the outer portions thereof foming a vertical abutment face, and means for clamping a bumper bar against said abutment face.

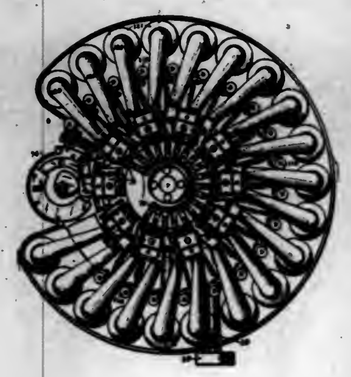
1,458,928. PRESSURE REGULATOR AND CUT-OFF FOR INFLATING TUBES. RAY C. FANCHER, Utica, N. Y. Filed Aug. 15, 1921. Serial No. 492,459. 2 Claims. (Cl. 50—35.)



2. In a pressure regulator and cut off for inflating tubes, a casing having a channel for the passage of air, a valve adapted to close said passageway, a piston connected to said valve, a spring for controlling the movements of said piston, a thimble for adjusting the tension of said spring, a guard for enclosing said thimble, and a manually operated spring pressed valve for controlling the admission of compressed air to said passageway.

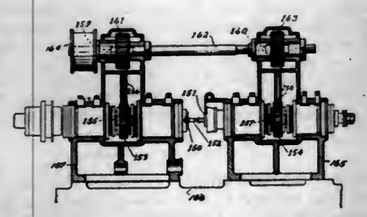
1,458,929. ROLL-GAUGING MACHINE. JOHN F. FLAHERTY, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 14, 1920. Serial No. 416,935. 22 Claims. (Cl. 83—92.)

1. In a machine of the class described, the combination of an article-calipering device adapted to hold the article and comprising a movable member, the position of which is determined by the size of the article, and a plurality of devices with which said member is adapted to cooperate in succession, each of said devices having operative connection with said calipering device independent of said member and being adapted to effect the release of



the article and the actuation of each of said plurality of devices being subject to control by said member when in a particular position.

1,458,930. SPINDLE-DRIVING MECHANISM. JOHN F. FLAHERTY, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 26, 1921. Serial No. 455,836. 2 Claims. (Cl. 74—7.)



1. In a grinding machine, the combination of a housing, a work-spindle mounted in spaced bearings in said housing, a driven gear on said spindle between said bearings, said housing being formed with a lubricant chamber around said driven gear from which said gear and said bearings are supplied with lubricant, a drive shaft arranged in a plane parallel with the plane of said spindle and mounted in spaced bearings in said housing, a spiral gear on said shaft between the last-mentioned bearings, an intermediate shaft, gears on said intermediate shaft meshing respectively with said spiral gears, and said housing having a partition therein forming a lubricant chamber from which the second-mentioned spiral gear and the gear meshing therewith are lubricated.

1,458,931. METHOD OF FORMING ANNULAR BODIES. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1918. Serial No. 261,120. 4 Claims. (Cl. 154—2.)

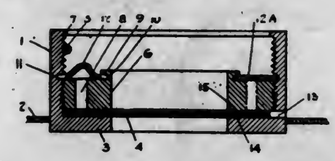
4. The method of constructing annular bodies that comprises superposing convolutions of cord in such

manner that strands wound in one direction intercross with strands wound in another to form the desired body,



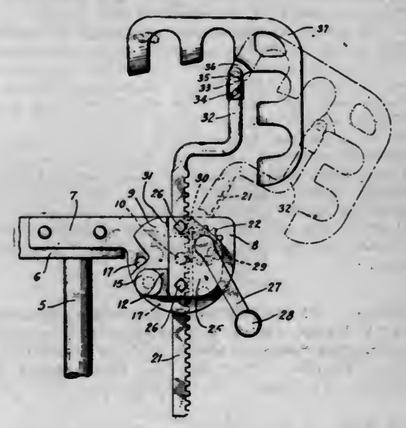
impregnating the body with a phenolic condensation product and subjecting the body to heat and pressure in a mold.

1,458,932. MOUTHPIECE FOR RECEPTACLES TO CONTAIN LIQUIDS AND MEANS FOR SEALING THE SAME. SPIRO DENIS GARRIS, Calcutta, British India. Filed May 19, 1921. Serial No. 470,792. 7 Claims. (Cl. 220—39.)



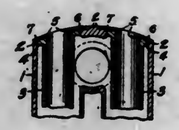
1. A closure for liquid receptacles, comprising an interiorly threaded cylindrical body provided with an inwardly extending flange, a disk within said body adapted to be seated on said flange, a ring threaded into said body and adapted to compress said disk against its seat, said ring having a boss at the side thereof opposite from said disk, and means secured between the wall of said cylindrical body and said boss for retaining said ring in disk-compressing position.

1,458,933. ADJUSTABLE KNEE SUPPORT. WILLIAM GRAUPE, New York, N. Y., assignor to Hospital Supply Company and Watters Laboratories, Consolidated, both of New York, N. Y. Filed Feb. 8, 1922. Serial No. 533,841. 4 Claims. (Cl. 45—50.)



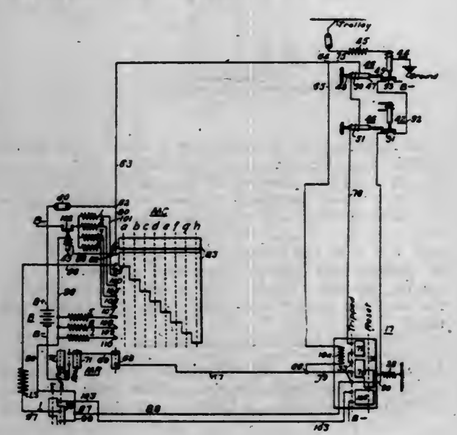
1. An attachment for operating tables and the like, comprising a pair of angular knee supports, offset sustaining bars on which said supports are freely pivoted and mounted to swing in a plane parallel to the table, means for adjusting the angularity of each support individually, means for mechanically raising or lowering each of said supports, and means including a pawl and ratchet for maintaining said supports in vertical adjustment.

1,458,934. METHOD OF WELDING RADIATORS. JOSEPH WILLIAM GUIMONT, Montreal, Quebec, Canada, assignor of one-half to Mendoza Langlois, Montreal, Quebec, Canada. Filed Dec. 19, 1921. Serial No. 523,505. 1 Claim. (Cl. 113—112.)



The method of securing an inner tube in spaced relation with the outer casing of a radiator, which consists in forming at each end of said inner tube a straight sided annular shoulder, beveling the outer periphery of the end of each shoulder, internally beveling the inner periphery of the opening provided in the outer casing for the reception of the inner tube, so that when said tube is positioned in the casing an annular V-shaped groove is formed, and filling the said groove with molten metal in order to weld the walls together, the weld being flush with the ends of the inner tube and casing.

1,458,935. CONTROL SYSTEM AND APPARATUS. ARTHUR J. HALL, Winchcombe, England, and PAUL L. MARDIS, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,146. 13 Claims. (Cl. 171—179.)

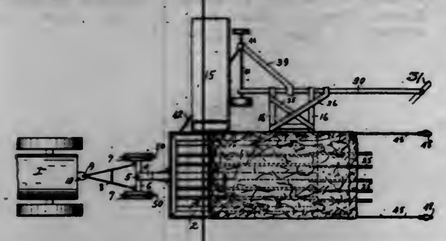


2. The combination with a supply circuit and a dynamo-electric machine, of a plurality of resistors in circuit with said machine, a plurality of switching devices for said resistors, a switch for controlling the connection of said machine to said supply circuit, and means responsible to certain machine conditions for opening said switching devices and said switch in successive steps.

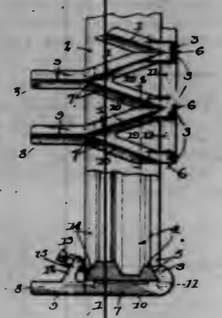
1,458,936. METHOD OF HARVESTING GRAIN. CHARLES W. HART, Charles City, Iowa. Filed Jan. 27, 1919. Serial No. 273,375. 6 Claims. (Cl. 56—425.)

5. The method of harvesting grain consisting in progressively cutting grain along a path of travel and delivering the same laterally, simultaneously moving a

stack support along said path in a position to receive the cut grain, building a stack thereon, bringing the support to rest, connecting the bottom portion of the stack along its front and sides with a fixed ground anchorage, and withdrawing the support from beneath the stack.

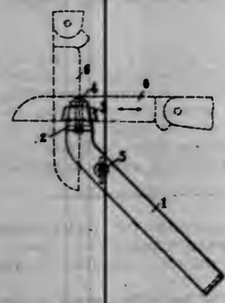


1,458,937. TRACTOR-WHEEL FLUKE. CHARLES W. HART, Milwaukee, Wis. Filed Mar. 18, 1920. Serial No. 366,762. 19 Claims. (Cl. 301—44.)



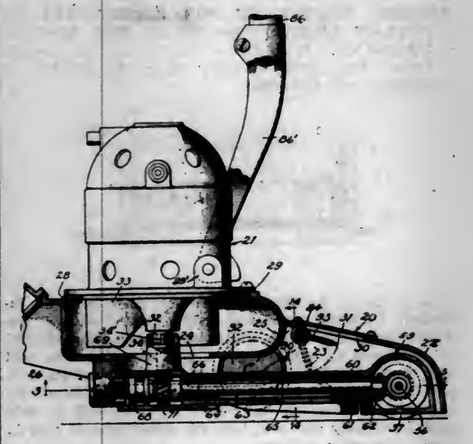
18. A wheel fluke including two divergent arms having bearing lugs adjacent their extremities, hooks carried by said arms and arranged for interaction with the margin of a wheel periphery whereby transverse relative movement between said fluke and periphery may be utilized to bring said lugs into contact, a set screw associated with said fluke and adjustable into contact with a wheel to produce said relative transverse movement, and a bearing surface adjacent said screw and adapted, by the operation thereof, to be forced into contact with said wheel.

1,458,938. KNIFE SHARPENER. KNUT WALDEMAR HEYMAN, Stockholm, Sweden. Filed June 17, 1921. Serial No. 478,227. 5 Claims. (Cl. 76—87.)



1. A tool for sharpening cutting blades, comprising in combination, a suitable handle and a pair of contacting spherical disks or rollers of hard material, each of said rollers being rotatably mounted upon a pin carried by said handle in such a manner that the blade may be drawn through between them either substantially parallel with or at right angles to their axes of rotation.

1,458,939. VACUUM CLEANER. JOHN T. HUME, Chicago, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1921. Serial No. 455,010. 18 Claims. (Cl. 15—8.)



2. In a portable vacuum cleaner, the combination with a casing providing a nozzle and a fan chamber with which the nozzle communicates, a fan in said chamber, a motor driving said fan, and a brush rotatable in said nozzle, connections driven by said motor for operating said brush, a manually operable clutch included in said connections, a main pushing handle movably mounted on the casing and connections between said handle and said clutch to control the clutch by movement of said handle.

11. In a vacuum cleaner, the combination of a casing having a nozzle, sleeves supported in the nozzle ends, wheels mounted on said sleeves and projecting below the nozzle, thimbles mounted in said sleeves and endwise removable therefrom, and a brush structure in the nozzle having its spindle mounted in said thimbles.

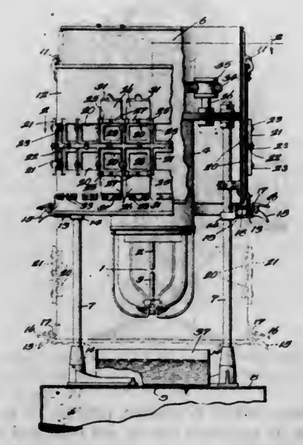
16. In a portable vacuum cleaner having a nozzle, a horizontally-extending air passage therefrom, a fan chamber into which said air passage opens, and a hose-tool receptive orifice constantly open to said passage, a shutter for closing and opening said air passage between said orifice and the nozzle, and separate means for closing said hose-tool receptive orifice from the exterior thereof.

1,458,940. WEATHERPROOF ELECTRIC HEATER. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Oct. 18, 1921. Serial No. 508,543. 11 Claims. (Cl. 219—34.)



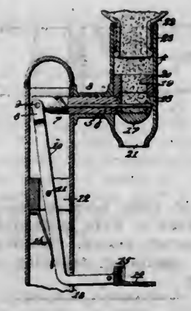
1. A waterproof electric heater comprising a heating conductor, an enclosing and insulating waterproof tube therefor and an external metallic mass applied to the outside of said tube.

1,458,941. APPARATUS FOR TESTING THE FADING ACTION OF LIGHT. CLARENCE W. JAMESON, Lombard, Ill. Filed May 23, 1921. Serial No. 471,946. 9 Claims. (Cl. 88—14.)



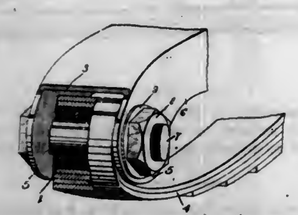
1. Apparatus of the class described including an upright hollow light shield open for the circulation of air therethrough; in combination with an electric lamp carried by the light shield with its lighting center below the same; a carrier movable along the light shield to elevate or lower an object upon the carrier with reference to the lamp and light shield; and an electrical heat producing resistance included in the circuit of the lamp and located within light shield.

1,458,942. BROMO-SELTZER DISPENSER. JOHN J. KEGLER, Cedar Rapids, Iowa. Filed Jan. 29, 1921. Serial No. 441,069. 3 Claims. (Cl. 221—106.)



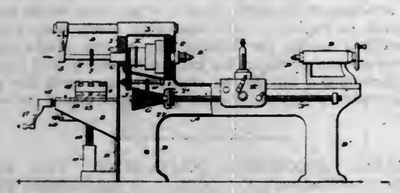
1. In a dispensing device, a receiving chamber, a rotative cup mounted therein, a spiral cam connecting with the cup, and a lever co-operating with said cam to reverse the position of the cup.

1,458,943. BUSHING. J STANLEY KINNEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 10, 1918. Serial No. 244,193. 5 Claims. (Cl. 64—10.)



2. A bushing, washer or the like comprising superimposed convolutions of duck impregnated with a hardened phenolic condensation product containing graphite.

1,458,944. COMBINED MILLING AND TURNING MACHINE. JOHN D. KOHLMANN, Milwaukee, Wis. Filed Aug. 12, 1920. Serial No. 403,014. 1 Claim. (Cl. 29—27.)



In combination with a lathe, a knee mounted for vertical movement upon one leg of the lathe, a saddle for longitudinal movement upon said knee, a milling table mounted upon said table and adapted to move transversely thereof, a mill tool mounted to turn with the spindle of the lathe, a vertical feed screw arranged beneath said knee, a drive shaft journaled upon said knee, a flexible shaft connected thereto and driven from the feed mechanism of the lathe, a secondary shaft carried by said knee and driven by said shaft, a jack shaft carried by said knee adapted to transmit motion from said secondary shaft to said vertically arranged feed screw, a feed screw arranged longitudinally of the knee in connection with the saddle, said feed screw being geared to the secondary shaft whereby the saddle may be actuated automatically, a feed screw connected with said milling table, a worm suitably keyed to said motion drive shaft, a worm suitably keyed to said milling table feed screw and in communication with said worm whereby the milling table is moved transversely of the knee.

1,458,945. REENFORCED-CONCRETE RAILROAD TIE. JULIUS KRUTTSCHNITT, New Canaan, Conn. Filed Sept. 29, 1920, Serial No. 413,610. Renewed May 4, 1923. 7 Claims. (Cl. 238—92.)

1. A reenforced concrete railroad tie having in its upper surface a plurality of recesses, each recess being

adapted to receive a pair of blocks, means on the tie for holding each of the blocks from movement in one



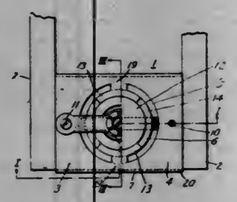
direction transverse to the axis of the tie and rail-fastening means secured to the blocks adapted to prevent movement of each said block in the opposite direction.

1,458,946. REENFORCED-CONCRETE RAILROAD TIE. JULIUS KRUTTSCHNITT, New Canaan, Conn. Filed Mar. 22, 1922. Serial No. 545,641. 3 Claims. (Cl. 238—89.)



1. A reenforced concrete railroad tie having in its upper surface a plurality of recesses, the axes of which are arranged at an angle to each other, each recess being adapted to receive a rail supporting block, each recess comprising means for holding one of the blocks from movement except along the axis of the block, and means for fastening a rail to the block arranged with the rail to prevent movement of each such block along its own axis.

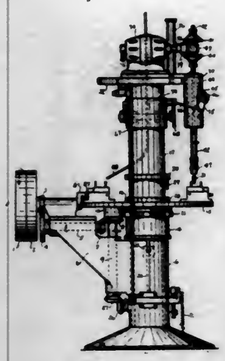
1,458,947. MEASURING INSTRUMENT. PAUL MACGAHAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1918. Serial No. 254,210. 5 Claims. (Cl. 171—95.)



1. In a measuring instrument, the combination with field-magnet pole pieces and a cylindrical magnetizable member having a cut-away portion at one end thereof, of means secured to the ends of the pole pieces for so engaging the cut-away portion of the cylindrical member as to acurately center the same between the pole pieces.

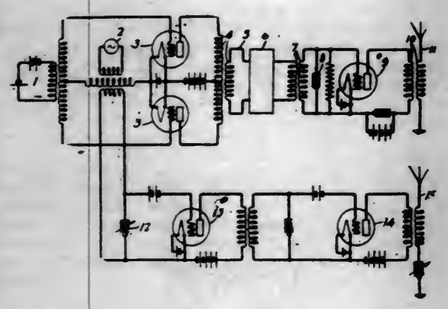
1,458,948. AUTOMATIC MULTIPLE-TAPPING MACHINE. PETER MEYER, Newark, N. J. Filed Nov. 18, 1921. Serial No. 516,057. 7 Claims. (Cl. 10—130.)

4. In combination a series of tapping spindles, a reversing device therefor, a work table, a series of work holders secured thereto, a constantly rotating member, means operated by said member to intermittently position said work table, other means connected to said member to move said work table toward and from said spin-



dles, a locking device to prevent rotation of said work table during its movement toward and from said spindles, and means connected to said rotating member to operate said reversing means.

1,458,949. CARRIER RADIOTELEPHONE SYSTEM. HAROLD W. NICHOLS, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,792. 12 Claims. (Cl. 250—6.)

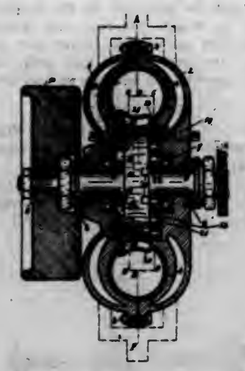


2. A method of radio telephone transmission which comprises producing a wave modulated in accordance with speech frequency signals, radiating one side band component, and separately radiating a wave of the carrier frequency.

1,458,950. EXPLOSION ROTATING ENGINE. LOUIS ILDEVERT POIRMEUR, Meru, France. Filed Feb. 13, 1920. Serial No. 358,427. 5 Claims. (Cl. 123—11.)

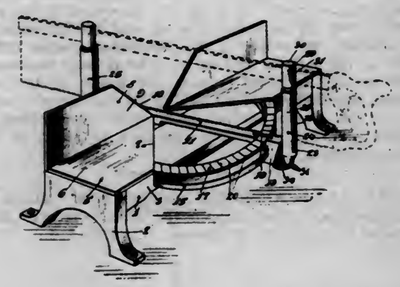
5. In an explosive engine, a casing having a cylinder and a central cavity, pistons in the cylinder, a shaft extending through said casing and cavity, a disk secured to the shaft and rotating within the cavity, radially

moving means associated with the walls of the cavity for locking the pistons in engagement with the casing,



and a second radially moving means associated with another face of the cavity to lock the pistons in engagement with the disk.

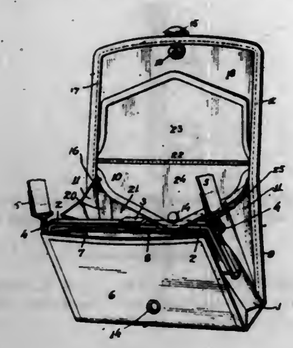
1,458,951. MITER BOX. HARRY POOLE and GEORGE P. ROMAIN, Dillon, Mont. Filed Sept. 15, 1921. Serial No. 500,937. 2 Claims. (Cl. 143—88.)



1. A miter box comprising a bed plate, a saw-supporting bar provided with depending bearings one of said bearings being swiveled to the bed plate whereby the saw-supporting bar may have pivotal movement in a plane parallel with the plane of the bed plate, a shaft journaled in said bearings, saw guides secured to the ends of said shaft and projecting upwardly radially therefrom, means for securing said shaft in a set position, means for securing the saw-supporting bar in a set position, said bar having a recess in its upper side, a guard plate concentric with the pivot of the bar passing through said recess, and a marker on the upper side of the bar bridging said recess.

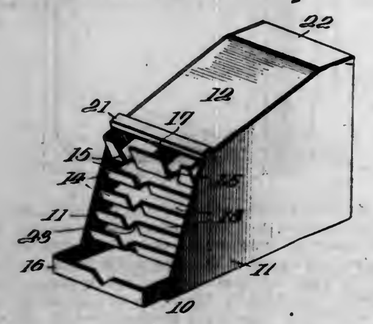
1,458,952. POCKETBOOK. SAMUEL J. PROKESCH, New York, N. Y. Filed Sept. 23, 1922. Serial No. 590,054. 2 Claims. (Cl. 150—36.)

1. A pocketbook comprising a bag-shaped central body, a front and a back attached thereto, the back having a flap extending therefrom to form a lid or cover, the back having a piece secured thereto to form an additional pocket and the flap having a piece secured thereto to form another additional pocket, said pockets presenting their mouths to each other, a piece secured between the mouths of said pockets and forming a pair of covers,



one of which is adapted to close each of said pockets, and fastening devices to secure said covers in closing position.

1,458,953. STATIONERY CABINET. EDNA G. ROBESON, Atlanta, Ga. Filed Aug. 9, 1922. Serial No. 580,687. 2 Claims. (Cl. 211—37.)



2. A stationery cabinet comprising, in combination, side members having their forward edges sloping rearwardly, shelves between said side members sloping downwardly toward the front of the cabinet, fronts upon and perpendicular to said shelves, their upper edges terminating in alignment with the next higher shelf and flush with the edges of said side members whereby each successively higher front is off set rearwardly to provide a space between the upper edge of each front and the lower edge of the front thereabove, a downwardly and forwardly sloping top upon said cabinet, and a ledge to prevent sliding of an article placed thereon.

1,458,954. ROLLER BEARING. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Paris, France. Filed June 23, 1920. Serial No. 391,193. 1 Claim. (Cl. 64—62.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

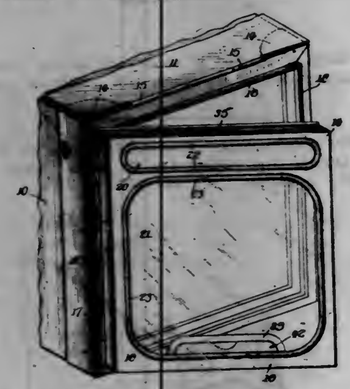
A cage for cylindrical roller bearings comprising an annular sheet piece provided in its cylindrical part with rectangular openings through which the rollers are adapted to extend and on both rims with rectangular notches in line with the said openings, the sheet of metal of said annular piece being folded at right angles

towards the exterior along the lines marking the side edges of said openings and along the lines marking the inner sides of said notches, in such manner that the



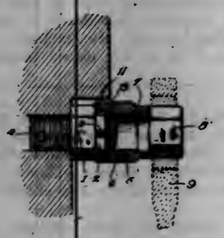
longitudinal strip left between said openings and said notches form walls covering the transverse sides of the rollers.

1,458,955. RECEPTACLE COVER. JACOB I. RUSSAKOV, Chicago, Ill. Filed May 29, 1922. Serial No. 564,311. 5 Claims. (Cl. 220—80.)



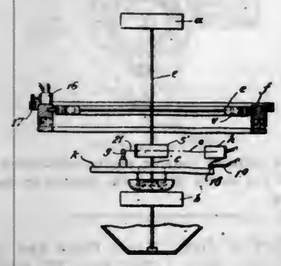
1. In a receptacle cover of the character described, the combination of a lid having a sight opening therein, a piece of transparent material substantially surrounded by lid parts of the edges of the transparent plate and overlying the sight opening, and a spring member extending substantially from side to side of the cover and overlying the plate and pressing upon it, the spring member being mounted at one side of the lid for swinging movements away from and toward the plate, and means at the opposite side of the lid for holding the spring member readily releasable in its holding position.

1,458,956. SOCKET WRENCH. JOHN SAYER, Stone Lake, Wis. Filed Apr. 18, 1922. Serial No. 555,191. 1 Claim. (Cl. 81—121.)



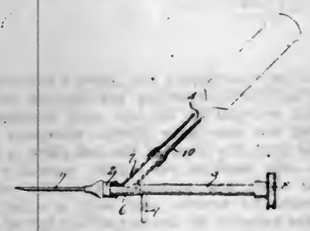
A wrench socket comprising a body provided with an opening extending longitudinally therein and enlarged in diameter at one end of the body to provide a socket to accommodate the notched extension of a castellated nut, and lugs formed radially within the said socket and extending across the bottom wall thereof to engage in said notches, the inner edges of said lugs being flush with the wall of the opening in the body whereby the said opening will be adapted, at the initial application of the socket, to receive the bolt onto which the nut is threaded and thus center the socket and permit of its rotation about the axis of the bolt until the lugs have been brought opposite the notches in the nut.

1,458,957. COURSE DRAFTER FOR MARINE AND AERONAUTIC VESSELS. RICHARD HERMANN SCHACHENMEIER, Karlsruhe, Germany. Filed Aug. 20, 1919. Serial No. 318,804. 8 Claims. (Cl. 234—26.5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. A course-drafter for recording the track traversed by a vessel by integration of the equations of motion comprising, a gimbal, a pendulum suspended in the said gimbal with its weight at the top and its bar pointing downwards, the weight of the pendulum opposing deflections of the vertical axis of the gimbal from its normal position, and members between the weight of the pendulum and the gimbal for taking up the forces exerted due to the mass of the pendulum whilst maintaining its vertical position when the direction or speed of the vessel changes.

1,458,958. BLEEDING APPARATUS. RALPH F. SCHNEIDER, Jersey City, N. J. Filed Oct. 21, 1921. Serial No. 511,718. 3 Claims. (Cl. 128—276.)

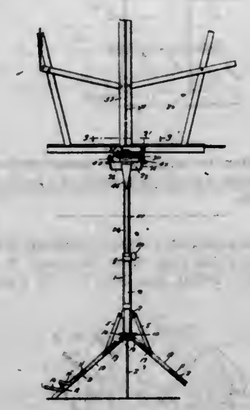


1. An apparatus of the class described, including a handle having a passage therein adapted to communicate with a hypodermic needle, a rigid nipple fixed to the handle and communicating with the passage, and a flexible airtight coupling member adapted to hold the reduced breakable end of a vacuum tube within said nipple.

1,458,959. MUSIC-LEAF TURNER. SAMUEL TRACHTENBERG, Cleveland, Ohio. Filed Nov. 7, 1921. Serial No. 513,355. 4 Claims. (Cl. 84—514.)

1. In a music-leaf turner the combination of a support, an upright shaft mounted thereon, pedals connected to the shaft to turn the same in either direction, two

sets of oppositely swinging arms mounted on the support, and means actuated by successive turns of the shaft to swing the arms of either set successively in



opposite directions, said means including pawls and a series of stopped turning parts geared to the arms respectively and adapted to be engaged in succession by the pawls respectively.

1,458,960. BAR SPACER. WILLIAM E. WHITE, Chicago, Ill. Filed June 25, 1920. Serial No. 391,775. 6 Claims. (Cl. 72—122.)



1. In a spacing device, the combination of a single, continuous straight length of wire, and chairs also composed of wire, said chairs being of U-shape and having a relatively long horizontal base which extends transversely of said wire and which is welded to the wire at the middle portion of said base member, substantially as described.

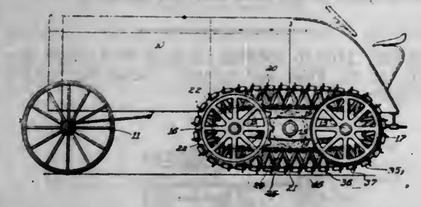
1,458,961. TOOL. SELDON T. WILLIAMS, Philadelphia, Pa. Filed Mar. 10, 1921. Serial No. 451,336. 4 Claims. (Cl. 81—1.)

1. An impact tool, including a tool carrying element, a striking element, and a helical spring having closely spaced convolutions enclosing said elements and connected thereto at its ends, whereby to forcibly direct the



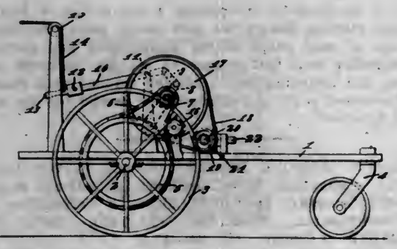
striking element against the tool carrying element when the spring is tensioned and released, and to function as a guide and enclosure for the striking element.

1,458,962. TRACTION MECHANISM. ISAAC H. ATHEY, Chicago, Ill., assignor, by mesne assignments, to Athey Truss Wheel Co., Chicago, Ill., a Corporation of Illinois. Filed May 29, 1920. Serial No. 385,155. 18 Claims. (Cl. 305—8.)



10. An endless supporting and traction chain for vehicles, comprising a plurality of track links pivotally connected together, a truss arm extending inwardly from each track link, a pair of truss links connecting each truss arm with each adjacent truss arm, and means for causing an initial deflection of said links upon the approach of the inner ends of said truss arms toward each other, the said means being ineffective after causing said initial deflection to cause further deflection of said links.

1,458,963. TRACTOR. RILEY J. AULTMAN, Ovid, Mich. Filed May 20, 1921. Serial No. 471,219. 2 Claims. (Cl. 180—70.)



1. In a tractor the combination with independently rotatable supporting wheels, of separate drive pulleys,

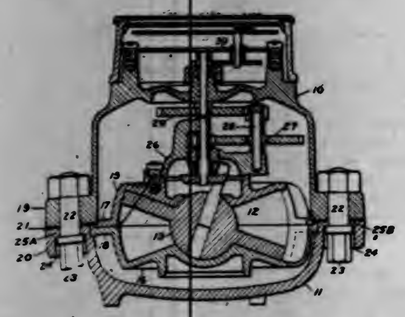
separate belt wheels, power transmitting connections between the belt wheels and the respective supporting wheels, belts for transmitting motion from the pulleys to the respective belt wheels, and means for shifting the belt wheels separately or simultaneously to loosen the belts and to bring the belt wheels into frictional driving contact with the respective pulleys, and yielding means for holding the belts normally taut.

1,458,964. PROCESS OF MANUFACTURE OF COKE FOR METALLURGICAL USES. ANDRÉ HENRI BAILLE-BARRELLE, Paris, France. Filed May 28, 1921. Serial No. 473,341. 4 Claims. (Cl. 202—8.)



4. In a process of manufacture of metallurgical coke, the operation whereby the heating is so effected that at the instant when the surface of the coal is at the temperature of agglomeration T°, the center of the mass shall be at the temperature T—N, N being approximately equal to the product of 15° C. by one-half the thickness of the mass measured in centimeters, and that subsequently the temperature difference between the surface and the center of the mass shall not exceed N°.

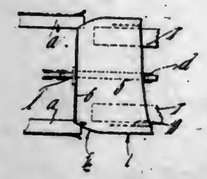
1,458,965. LIQUID METER. ROBERT S. BASSETT, Buffalo, N. Y. Filed Apr. 7, 1922. Serial No. 550,365. 3 Claims. (Cl. 73—98.)



1. A liquid meter comprising a top casing, a bottom casing, meeting flanges for said casing parts, the flange of one of said parts having perforations and recesses surrounding said perforations to provide frangible portions, and fastening means passing through said flanges and recessed portions; substantially as and for the purpose described.

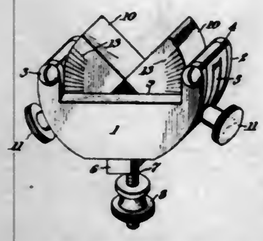
1,458,966. PLAQUE BOARD. ALONZO LINTON BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 11, 1920. Serial No. 430,017. 5 Claims. (Cl. 34—17.)

5. A plaque-board, comprising, a relatively thin flat body portion of metal to support the candy laden plaques, and having at opposite corners convergent portions forming cams, runners provided on the under surface of the body portion and extending along the side edges thereof between said convergent portions, and a cam forming



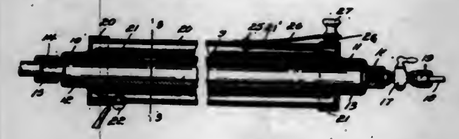
convergent portion to connect the lower surface of each end of each runner to the underside of the body portion adjacent its ends.

1,458,967. ATTACHMENT FOR DENTAL ARTICULATORS. JOSEPH BECKER, West Hoboken, N. J. Filed June 1, 1922. Serial No. 565,114. 8 Claims. (Cl. 32—1.)



8. An attachment for dental articulators, comprising side-plates, and a longitudinally slotted arcuate rim connecting said side-plates the whole constituting a shell, a sector mounted in said shell and a sector-adjusting device projecting through and movable in the slot in the rim and engaging the sector and rim, and a block attached to the shell and closing one of its ends, said block having a beveled end.

1,458,968. DECARBONIZING TORCH. REGNALD R. BEEZLEY, Memphis, Tenn. Filed Apr. 5, 1921. Serial No. 458,754. 4 Claims. (Cl. 158—27.4.)



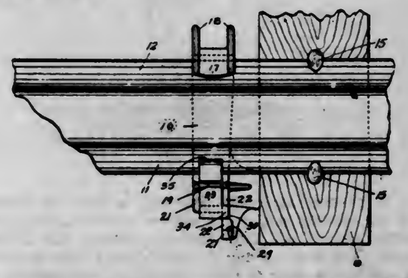
1. A decarbonizing torch comprising a gas chamber adapted to communicate with the source of supply, a valve for controlling the gas from said chamber, a torch nozzle communicating with said chamber and controlled by said valve and adapted to abut against the wall of an engine cylinder, or the piston within such cylinder, and an electrical connection between said nozzle and the source of electrical supply and including a choke coil.

1,458,969. PROCESS OF OXIDIZING AMMONIA AND RECOVERING ACID AS ALKALI-METAL SALTS. FELICE BENSA, Genoa, Italy. Filed Aug. 30, 1920. Serial No. 407,036. 1 Claim. (Cl. 23—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

The herein described process of oxidizing ammonia and recovering acid as alkali-metal salts, said process consisting in subjecting a layer of metalized asbestos and separate layers of oxide of copper, oxide of iron, and oxides of rare earths to the action of a mixture of steam,

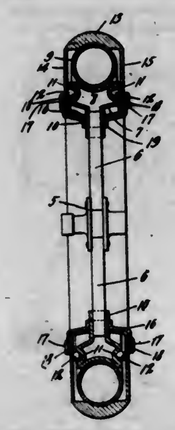
hot ammoniacal gases and air in a retort maintained at a temperature of from 600° to 800° C., passing said mixture of gases through said layers, and then passing said gases to receptacle containing alkaline carbonates, said receptacles being maintained at a temperature of from 300° to 350° C.

1,458,970. RAIL ANTICREEPER. BENJAMIN B. BETTS, St. Louis, Mo. Filed Sept. 23, 1921. Serial No. 502,681. 8 Claims. (Cl. 238—324.)



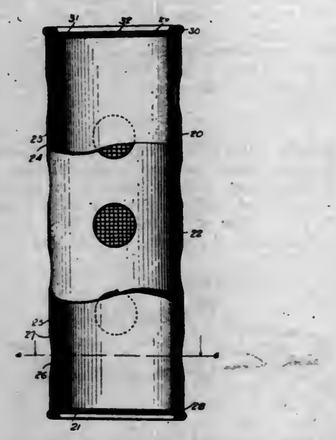
1. A rail anti-creeper comprising a base, a jaw formed integral therewith, a projection having an opening formed on said base, a key of spring material adapted to be inserted through said opening for securing the anti-creeper to a rail, means for preventing the accidental removal of said key when in locked position, and means for holding the key and anti-creeper together.

1,458,971. METAL-CASING WHEEL. CHARLES BLACKWELL, St. Louis, Mo. Filed Mar. 25, 1922. Serial No. 546,753. 1 Claim. (Cl. 152—35.)



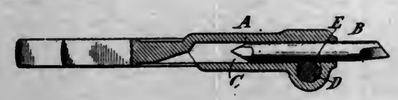
In a resilient wheel construction, a hub, spokes radiating from the hub, a hollow felloe connecting the spokes, said hollow felloe having depressions formed in the side walls thereof, balls positioned within the depressions, said felloe having a curved portion providing a seat, a ground engaging section including lateral flanges, said balls adapted to contact with the lateral flanges to permit of movement of the felloe within the ground engaging section, a pneumatic tube disposed within the ground engaging section and resting in the seat formed in the felloe, collars positioned on the spokes, said collars having integral arms embracing portions of the ground engaging section, and means for connecting the arms to the ground engaging section to restrict rotary movement of the ground engaging section with respect to its spokes.

1,458,972. FIRE EXTINGUISHER. PAUL BRAUDE, New York, N. Y. Filed Apr. 8, 1921. Serial No. 459,679. 3 Claims. (Cl. 169—36.)



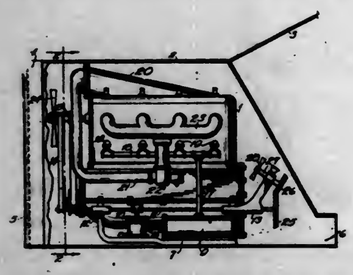
1. A fire extinguisher including an inner fusible and frangible container, a fire extinguishing fluid therein, and a protective shell therefor consisting of inner and outer layers having aligned perforations, and an intermediate foraminous layer which serves to cover the aligned perforations of the shell layers.

1,458,973. TOOL HOLDER AND TOOL. GEORGE W. BUFFORD, Buffalo, N. Y., assignor to J. H. Williams & Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 2, 1919. Serial No. 314,982. 2 Claims. (Cl. 29—96.)



1. The combination of a tool holder and a tool, the tool being circular in cross-section and the tool holder having a socket approximately conforming thereto, and a cam adapted to engage the tool at any point in its circumference, the cam having a curved face which is concaved to fit the side of the tool.

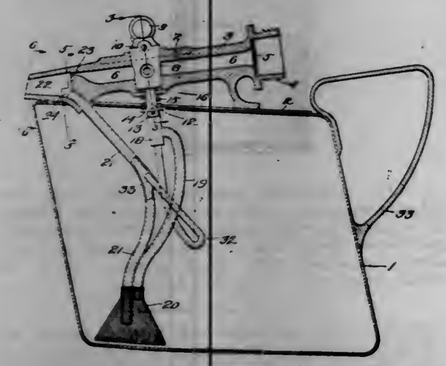
1,458,974. COMBINED COOLING AND CARBURETING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ALBERT JOHN CHARLTON, Lowden, Iowa. Filed Aug. 16, 1920. Serial No. 403,669. 2 Claims. (Cl. 123—171.)



1. The combination with an internal combustion engine having a cooling jacket, a carburetor and an aux-

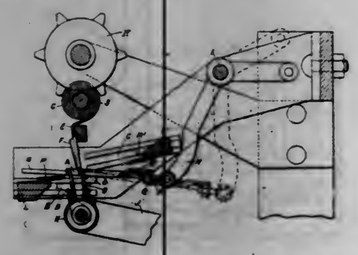
iliary shaft, of a compression tank, an air compressor for maintaining air under pressure in said tank, said compressor being operatively connected with said auxiliary shaft, a plurality of contracted inlets, one connected to each cylinder portion of said cooling jacket and communicating with said compression tank, and a relatively large discharge pipe communicating with the upper part of said cooling jacket and connected to the air intake port of said carburetor.

1,458,975. MIXING APPARATUS. WILLIAM CLAUSON, Everett, Mass., assignor to The Friendly Service Co., Boston, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 329,148, filed Oct. 7, 1919. This application filed Sept. 24, 1920. Serial No. 412,497. 8 Claims. (Cl. 299—84.)



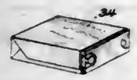
1. A device of the character described comprising a container; a main conduit affording a direct delivery from a source of supply; a second conduit connecting with said source of supply and delivering into said container; a mixture delivering conduit leading from said container; valvular means for controlling the flow through the main and second conduits, and a by-pass conduit having its inlet end connected with said second conduit between the discharge end of the latter and said valvular controlling means and its outlet end connected with said mixture delivering conduit so as to constitute an injector for causing a current in said mixture delivering conduit toward the discharge end of the latter.

1,458,976. LOOM FOR WEAVING TUFTED FABRICS. ARTHUR DAVIS, Kidderminster, England, assignor to Thomas Bond Worth & Sons Limited, Stourport, England. Filed Sept. 4, 1918. Serial No. 252,601. 1 Claim. (Cl. 139—7.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



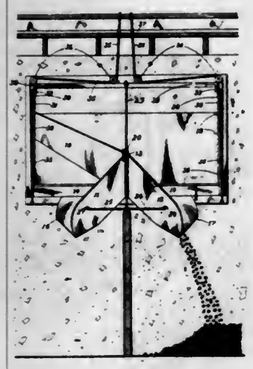
In a weaving machine for tufted fabrics, tubes constituting guiding members for pile yarns, means consisting of blades at the discharge ends of the guiding members for engaging the yarn to prevent its bending, and grippers movable with respect to said blades for grasping the yarn.

1,458,977. PACKAGE STRUCTURE AND METHOD OF MAKING THE SAME. HILARION DE ESCOBALES, New York, N. Y., assignor to H. Escobales Co. Inc., New York, N. Y., a Corporation of New York. Filed Sept. 3, 1920. Serial No. 408,055. 8 Claims. (Cl. 229—7.)



1. A package structure including a cover extending over the delivery end, and a narrow reinforcing strip extending around two sides and the delivery end of the package, the strip having a perforation at the delivery end sufficiently large to remove through it the articles in the package when the cover over the perforation is perforated.

1,458,978. COAL CHUTE. EDWARD FRANCES HEMING, Swan River, Manitoba, Canada, assignor of one-fourth to James Magen Iredale, Winnipeg, Manitoba, Canada. Filed Dec. 28, 1921. Serial No. 525,529. 4 Claims. (Cl. 193—31.)

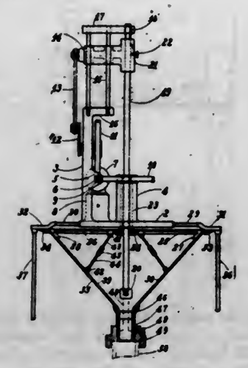


1. A coal chute comprising a frame adapted to be located in an opening in a wall, a movably mounted body, side members thereon, pivotally mounted chutes, means for controlling the angle of the chutes, said means being movable inwardly or outwardly as occasion requires.

1,458,979. BOTTLE-FILLING MACHINE. GEORGE A. HOWE and JULIUS L. KOSMANN, Pittsburgh, Pa. Filed Oct. 22, 1921. Serial No. 509,574. 5 Claims. (Cl. 226—72.)

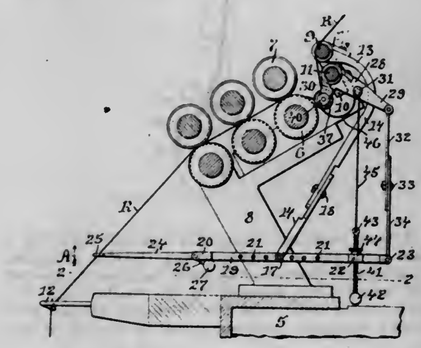
1. In a device of the kind described, the combination of a conical hopper provided with a discharge opening therein, a rotary spider, arms attached to said spider and projecting into the hopper, the entire length of said arms lying adjacent and at a substantially uniform distance

from the inner surface of the hopper and constantly extending into the proximity of the discharge opening, a



reciprocating plunger in the hopper disposed between the lower extremities of said arms for discharging material therefrom.

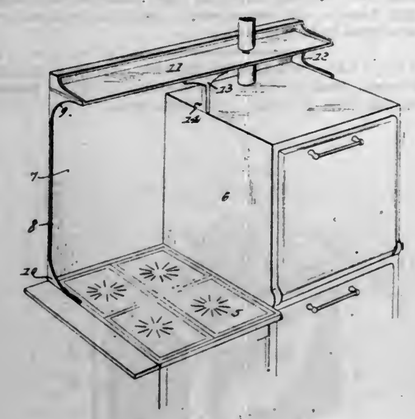
1,458,980. ROVING STOP MOTION FOR SPINNING FRAMES. GREGOIRE K. KAPATAS, Providence, R. I. Filed Oct. 21, 1922. Serial No. 596,107. 4 Claims. (Cl. 117—32.)



1. In a spinning frame having a drawing roll standard, drawing rolls and a bar on the standard, a roving stop-motion having a suspension support secured to the standard bar, and supporting the operative parts of the stop-motion, a rotatable member having an eye through which the roving passes and forming a part of the stop-motion, said rotatable member being adapted to engage with one of the drawing rolls on the breaking of the roving, whereby on the breaking of the roving, the roving will be wound onto the rotatable member of the stop-motion, for the purpose as described.

1,458,981. COOKING STOVE. MARY A. KELLER, Winona, Minn. Filed Aug. 7, 1922. Serial No. 580,184. 2 Claims. (Cl. 126—39.)

1. In a cooking stove, a burner section and an oven adjacent thereto, a back section supported at the rear of the oven and burner section, brackets extending outwardly at the top and bottom of the back at one end, one of the said brackets resting on the burner section and



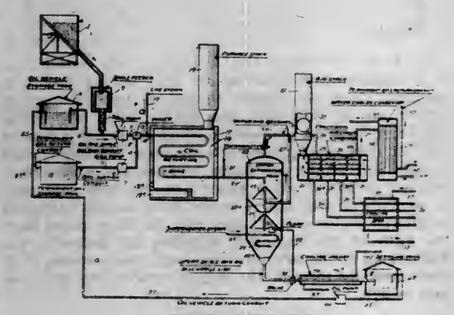
constituting a brace for the back, a shelf supported by the upper bracket, and means for supporting the shelf above the oven in spaced relation thereto.

1,458,982. SANITARY SOAP BOX. EDWIN JAMES KENDALL, Beaver Cove, British Columbia, Canada. Filed Dec. 28, 1921. Serial No. 525,460. 1 Claim. (Cl. 146—9.)



A device of the character stated comprising a cutter, its operating shaft, a hollow bracket, and a retaining nut for the operating shaft, the said hollow bracket allowing access to said retaining nut for the purpose of assembling and disassembling the device.

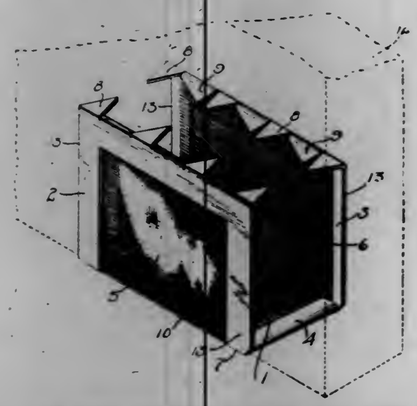
1,458,983. PROCESS AND APPARATUS FOR TREATING OIL SHALES. WILLIAM K. KIRBY, Golden, Colo. Filed Sept. 19, 1921. Serial No. 501,788. 8 Claims. (Cl. 196—21.)



1. The process of producing shale oil, which includes the steps of causing a properly proportioned charge of finely divided oil shale and an entraining high boiling point oil to flow in a stream of restricted cross-sectional

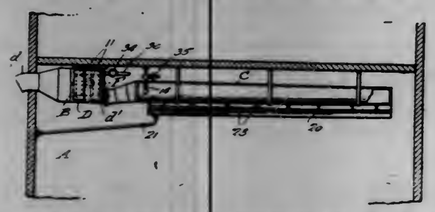
area through an analogously restricted retorting zone, supplying heat to said retorting zone of an intensity to liberate the desired values of said shale in the form of oily vapors, and subsequently liquefying said vapors as separated from said shale.

1,458,984. SCREENED DRAIN. THOMAS CLARK KUNKEL, Madrid, Nebr. Filed June 3, 1922. Serial No. 565,597. 2 Claims. (Cl. 156—14.)



1. The combination with a screen frame having an opening in the bottom thereof, of a U-shaped open frame arranged to receive the bottom portion of the screen frame, and being provided with projections extending inwardly toward the screen frame for attachment thereto, and wire netting carried by the U-shaped frame and arranged to cover said opening.

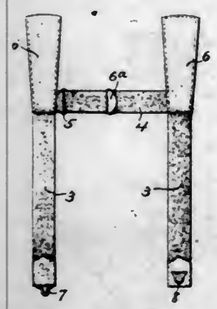
1,458,985. AIR-CONDITIONING APPARATUS. LEO L. LEWIS, Plainfield, N. J., assignor to Carrier Engineering Corporation, Newark, N. J. Filed Sept. 1, 1921. Serial No. 497,752. 10 Claims. (Cl. 183—25.)



1. In an air conditioning apparatus, the combination of a horizontally extending air duct having discharge openings along the bottom thereof, a fan arranged to deliver air to said duct and having inlet connections for return air from the room in which said duct is located and for outside air, adjustable dampers controlling said outside and return air inlets, nozzles and connections adapted to spray water under pressure into said duct in advance of said fan, a water drain trough extending lengthwise under said air duct with its sides spaced from the walls of the duct, and deflectors for deflecting the discharging air downwardly from said duct causing it to issue laterally through the spaces between the duct and said trough.

1,458,986. HOSE SUPPORTER. SARAH E. MCCREARY, Highland, Kans. Filed Oct. 12, 1920. Serial No. 416,379. 1 Claim. (Cl. 241—1.)

A hose supporter, comprising two elastic straps provided at their lower ends with means for connecting them together below the knee of the wearer, an elastic cross strap connecting the upper ends of said first mentioned straps in position to engage the upper portion



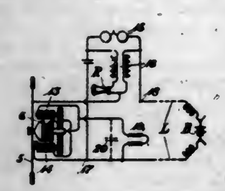
of the hose of the wearer, and an inelastic strap secured to the upper end of each of said first mentioned straps and each of said inelastic straps adapted for independent connection with a garment of the wearer.

1,458,987. GARDEN IMPLEMENT. PASQUALE DELLA MONICA, Harrison, N. Y. Filed Apr. 28, 1921. Serial No. 465,273. 4 Claims. (Cl. 294—49.)



1. A hand implement comprising a handle including a wooden core, and a metallic casing therefor extending the entire length thereof, and a blade including a threaded shank arranged for insertion in the wooden core, the metallic casing being bent into frictional contact with the shank to prevent rotation thereof in relation to said core.

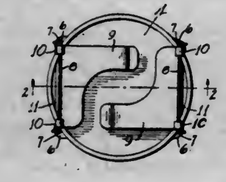
1,458,988. MEANS FOR EQUALIZING TRANSMISSION OVER LINES OF DIFFERENT ELECTRICAL CHARACTERISTICS. LYMAN F. MOREHOUSE, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,155. 9 Claims. (Cl. 179—70.)



1. In a signaling system, transmission lines of different electrical characteristics, telephone transmitters for each

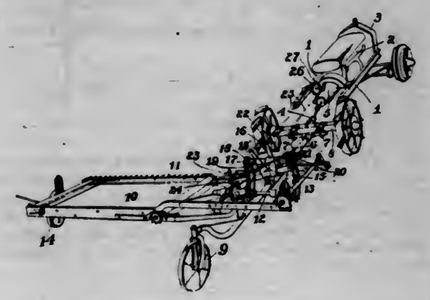
line, a common source of current supply for said transmitters, and means associated with said transmitters to automatically vary the efficiency thereof in accordance with the current supplied thereto.

1,458,989. LOCKING DEVICE FOR FRUIT CANS OR THE LIKE. HENRY H. ORDUNG, Laporte, Ind., assignor of one-third to Joseph Wade and one-third to Gibson T. Sharp, both of Laporte, Ind. Filed Apr. 13, 1922. Serial No. 552,144. 4 Claims. (Cl. 215—87.)



1. A device of the type described comprising a ring having lugs bent angularly with respect to the plane of the ring, U-shaped wires having their ends pivotally carried by said lugs, and clamping members pivotally secured to said wires, said members having angularly bent portions disposed adjacent to said wires.

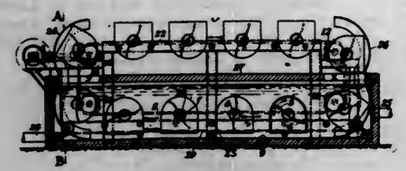
1,458,990. FARM IMPLEMENT. CHARLES OWENS, Chattanooga, Tenn. Filed July 14, 1919. Serial No. 310,600. 12 Claims. (Cl. 56—22.)



1. In combination with a tractor and its traction wheels, a bar pivotally connected at its front end to the tractor to rise and fall in a vertical plane in relation thereto, said bar trailing behind the traction wheels of the tractor, a caster wheel at the rear end of said bar, a standard having a pivotal connection with said bar to swing laterally in relation thereto and extending up therefrom, a binder bull wheel shaft journalled in the upper end of said standard, a reaper frame hung from said bull wheel shaft and a driving connection extending rearwardly from the tractor for driving the mechanism located on the reaper, substantially as described.

1,458,991. COOLING AND FREEZING OF FISH AND THE LIKE. JEAN JULIEN PIQUÉ, London, England. Filed Mar. 22, 1922. Serial No. 545,816. 6 Claims. (Cl. 99—2.)

1. In an apparatus for cooling or freezing fish and like foodstuffs, the combination with a receptacle into which the fish may be tumbled, said receptacle having the shape of an oblong box without a lid and being of U-section, of a paddle extending substantially the length of the receptacle and fitting more or less closely against the semi-cylindrical sides thereof, means for rotating said paddles, curved blades arranged radially on said paddles, a conveying chain cooperating with said receptacle, and means for alternately keeping the receptacle in a fixed position on said conveying chain and permitting rotational freedom between the receptacle and said chain, substantially as set forth.



6. In an apparatus for cooling or freezing fish and the like, the combination with a tank containing brine and the like, a plurality of receptacles for fish and the like, an endless chain for conveying said receptacles through said cooling tank, rotatable means within each receptacle, means for successively and automatically charging each receptacle with a predetermined quantity of fish and the like, and means for automatically emptying said receptacles when they leave the cooling tank, of a glazing tank arranged to receive the frozen contents from said receptacles, and an endless conveyer for carrying said contents through the glazing tank and out therefrom and delivering the same into boxes and the like for despatch or storage, substantially as set forth.

1,458,992. PRODUCTION OF CAMPHORIC ACID. WALTER T. SCHEELE, Hackensack, N. J., assignor to H. Mortimer Specht, New York, N. Y. Filed Nov. 24, 1920. Serial No. 426,131. 14 Claims. (Cl. 260—133.)

1. The process of making camphoric acid which consists in treating pinene with an alkaline peroxide, and treating the product with water.

1,458,993. PRODUCTION OF CAMPHOR. WALTER T. SCHEELE, Hackensack, N. J., assignor to H. Mortimer Specht, New York, N. Y. Original application filed Nov. 24, 1920, Serial No. 426,131. Divided and this application filed Mar. 30, 1921. Serial No. 457,035. 9 Claims. (Cl. 260—133.)

1. The method of reducing camphoric acid to camphor which consists of treating the camphoric acid with a finely divided readily oxidizable metal.

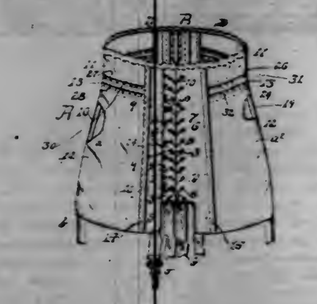
1,458,994. ATTACHMENT FOR ELECTRIC LAMPS. LAMBERT SCHMIDT, Brooklyn, N. Y. Filed June 18, 1921. Serial No. 478,694. 1 Claim. (Cl. 240—128.)



An attachment for electric lamps comprising a sheet metal annulus of angular form in cross section, having a horizontally disposed flange adapted to surround a lamp plug and provided with a split flange extending from the inner edge of said horizontal flange and affording a

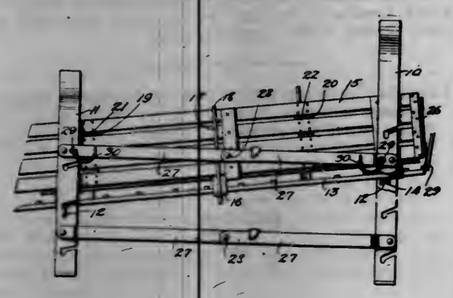
series of resilient tongues for frictional clamping engagement with the plug, said annulus also having a second flange at the outer edge of said horizontal flange inclined inwardly in convergent relation to said split flange and of greater width than the latter, said inclined flange being adapted for frictional clamping engagement with the terminal flange of a lamp shade to support said shade in applied position relative to the lamps.

1,458,995. CORSET. CHARLES H. SCHOPBACH, Aurora, Ill., assignor to International Corset Company, Aurora, Ill., a Corporation of Illinois. Filed Oct. 15, 1921. Serial No. 507,850. 2 Claims. (Cl. 2—73.)



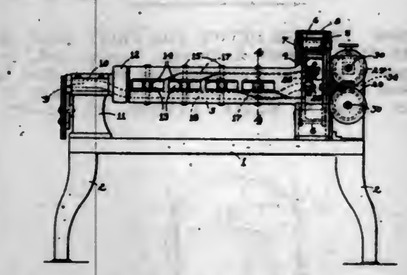
2. A front laced corset, each half of which comprises a main body or hip section, a relatively narrow top section, and an intermediate ventilating section located at the waistline and vertically disposed stiffening strips extending from the top to the bottom of the corset, each ventilating section having a horizontally extending central member and a plurality of spaced apart vertical members extending transversely of the first mentioned member, the top and bottom ends of the transverse members being secured to the adjacent margins of the top and bottom sections, the ends of the horizontally extending member being secured to the front and rear stiffening strips.

1,458,996. HOG RINGING AND LOADING CHUTE. BERT R. SIOLIN, Aurelia, Iowa. Filed June 28, 1922. Serial No. 571,481. 3 Claims. (Cl. 119—82.)



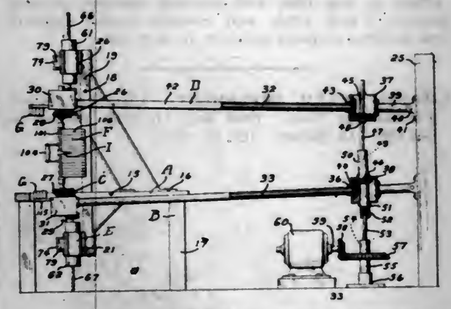
1. A device of the class described including arched supports, a platform extending between and adjustable on the supports, and foldable connections between the supports.

1,458,997. WINDING AND CABLING MACHINE. FRANK H. SLEEPER, Worcester, Mass., assignor to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed July 8, 1921. Serial No. 483,265. 11 Claims. (Cl. 117—20.)



1. A machine of the class described, comprising a rotatable flyer having a solid body portion provided with apertures with which are mounted spools.

1,458,998. PUMPKIN-PEELING MACHINE. HENRY SLETTO, Atascadero, Calif. Filed Aug. 1, 1922. Serial No. 579,007. 15 Claims. (Cl. 146—43.)



1. In a vegetable paring device, means for engaging the opposite ends of the vegetable to be pared, means for moving said vegetable engaging means into and out of engagement with a vegetable, means for rotating said members in the same direction, paring knives non-rotatably mounted, and movable into and out of engagement with the vegetable to be pared.

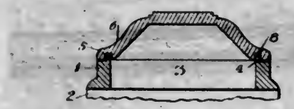
1,458,999. ELECTRIC-LIGHT DEVICE. CAIRO L. SNYDER, Marion, Ind. Filed Jan. 21, 1922. Serial No. 530,890. 3 Claims. (Cl. 173—354.)



1. A lamp socket including a body portion, a tubular housing supported by the body portion, a contact member extending through the body portion and terminating within the housing, a rotatable socket member carrying a finger supported within the tubular housing, a contact member extending through the body portion and being disposed substantially centrally of the socket member,

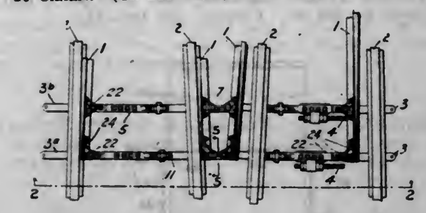
and means for rotating the socket member to bring the finger into engagement with the first mentioned contact member to complete a circuit through a lamp supported within a socket member.

1,459,000. PHONOGRAPH CABINET. WILLIAM A. SOMMERHOF, Erie, Pa. Filed Sept. 8, 1919. Serial No. 322,266. 2 Claims. (Cl. 45—52.)



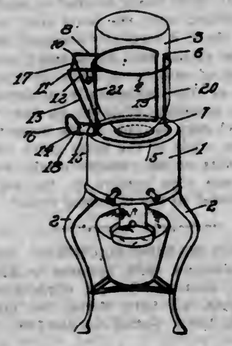
1. The combination with a phonograph cabinet and a cover thereon, of continuous interfitting sealing portion upon the cabinet and the cover for sealing the compartment closed by the cover, the side walls of said interfitting portions being parallel and spaced apart and a continuous strip of soft packing material secured within the cover and adapted to bear on the sealing means upon the cabinet.

1,459,001. SWITCH ROD FOR SLIP SWITCHES. JAMES B. STRONO, Hillburn, N. Y., assignor to Ramapo Ajax Corporation, New York, N. Y., a Corporation of New York. Filed May 24, 1922. Serial No. 563,207. 10 Claims. (Cl. 246—450.)



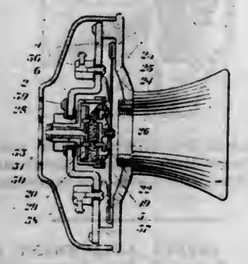
1. In a switch mechanism, the combination of a switch rail, and a switch rod for operating the switch rail, and a swing dog between the rail and rod, the rod being provided with a forged end having an adjustable bearing surface thereon, and the swing dog engaging said bearing and having a limited swinging movement thereon.

1,459,002. CARTON SUPPORT FOR DRINKING CUPS. WILLARD E. SWIFT, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Sept. 4, 1920. Serial No. 408,293. 3 Claims. (Cl. 298—20.)



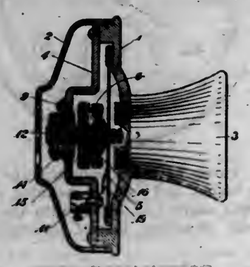
2. A carton holder of the class described, for use with a cylindrical water container mounted on an ice receptacle, comprising an upper resilient arm embracing the water container, a lower curved arm resting upon the ice receptacle, a wire framework adapted for the endwise reception of a carton attached to both the upper and lower curved arms, with the weight of the carton adapted to be supported on the ice receptacle.

1,459,003. MEANS FOR EQUALIZING TRANSMISSION OVER LINES OF DIFFERENT ELECTRICAL CHARACTERISTICS. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,147. 5 Claims. (Cl. 179—126.)



1. A telephone transmitter for use in connection with lines of different electrical characteristics, said transmitter including a single variable resistance button comprising a casing having a unitary mass of granular material therein and also having opposed electrodes movable with respect to each other, one of said electrodes comprising a plurality of sections, and a plurality of terminals for interconnecting said electrodes differently to form a plurality of paths through said granular material in accordance with the electrical characteristics of the line with which the transmitter is to be used.

1,459,004. MEANS FOR EQUALIZING TRANSMISSION OVER LINES OF DIFFERENT ELECTRICAL CHARACTERISTICS. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,148. 2 Claims. (Cl. 179—124.)

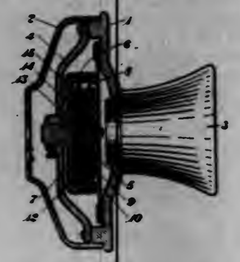


1. A telephone transmitter for use in connection with lines of different electrical characteristics, said transmitter including a resistance button having a plurality of electrodes, and at least one of said electrodes having a non-conducting segment whereby rotation of the electrodes about their axes will vary the effective conducting area of the electrodes to adjust the resistance of the transmitter in accordance with the electrical characteristics of the line with which the transmitter is to be used.

1,459,005. MEANS FOR EQUALIZING TRANSMISSION OVER LINES OF DIFFERENT ELECTRICAL CHARACTERISTICS. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,149. 2 Claims. (Cl. 179—125.)

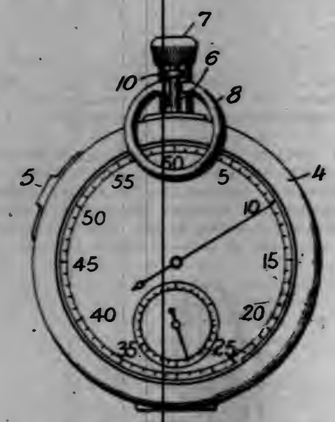
1. A telephone transmitter for use in connection with lines of different electrical characteristics, said transmit-

ter including a diaphragm and a resistance element, having a plurality of fixed electrodes embedded in granular material and a non-conducting plunger movable with said diaphragm to vary the resistance of said granular ma-



terial, and means for interconnecting said electrodes differently in accordance with the electrical characteristics of the lines with which the transmitter is to be used.

1,459,006. SAFETY ATTACHMENT FOR STOP WATCHES. HARRY E. VON KERSBURG, New York, N. Y., assignor to R. H. Macy & Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 27, 1921. Serial No. 525,081. 6 Claims. (Cl. 58—95.)



1. A stop watch having a winding and a re-setting stem, a stem casing, and a device mounted wholly within the stem casing adapted to engage with the stem to prevent accidental re-setting thereof, substantially as set forth.

1,459,007. FISH-DRESSING TOOL. ALFRED WETZIG, New Effington, S. Dak. Filed Dec. 30, 1921. Serial No. 525,869. 4 Claims. (Cl. 7—10.)



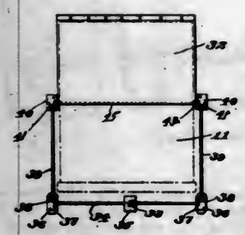
2. A tool for slitting and skinning a fish comprising a pair of skin gripping members, a knife on one of said members in close proximity to the gripping edge of said gripping members, the slitting and skinning occurring simultaneously.

1,459,008. DUST COLLECTOR. ADOLPH J. WILHARM, Ashland, Wis. Filed June 3, 1921. Serial No. 474,641. 5 Claims. (Cl. 183—60.)



1. In a device of the class described, a casing embodying a screen; a cleaner comprising an endless member movable within the casing and a brush carried by the endless member and cooperating continuously with the screen substantially throughout the entire length of the screen; a guide traversed by a part of the cleaner; a shaft mounted to rock in the casing and under the control of an operator; a crank on the shaft; and means for connecting the crank with the guide thereby to adjust the position of the guide toward and away from the screen, the screen being fixed against movement with respect to the guide.

1,459,009. OPERATING MECHANISM FOR AWNINGS. FRANK R. ASHLEY, Edgewater, Colo. Filed Oct. 1, 1921. Serial No. 504,700. 1 Claim. (Cl. 156—15.)

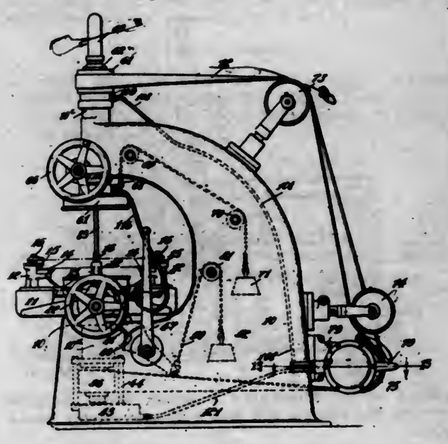


In a device of the kind described, a combination of a wall, a rotatably mounted shaft extending from the exterior to the interior thereof, a ratchet secured to the inner end of said shaft, an operating arm rotatably mounted on the inner end of said shaft, a pawl pivotally mounted on said operating arm and associated with said bracket, a bevel gear secured to the outer end of said shaft, a horizontal shaft rotatably mounted on the exterior of the wall, bevel gears secured to said shaft, one of said gears meshing with the bevel gear on the outer end of said first shaft, a vertically arranged shaft mounted on the exterior of the wall, bevel gears secured to the ends thereof, one of said bevel gears meshing with the remaining gear on the horizontally arranged shaft, a U-shaped frame pivotally mounted on the exterior of said wall, a bevel gear on one of the arms thereof and meshing with the other of the bevel gears on the vertically arranged shaft on the exterior of the wall, and an awning having one edge secured to the wall and the opposite edge secured to the U-shaped frame.

1,459,010. WHEEL-MAKING MACHINE. AUGUST E. R. BLOMQUIST, Cleveland, Ohio, assignor to Kelsey Wheel Company, Inc., Detroit, Mich., a Corporation of New York. Filed Aug. 12, 1916, Serial No. 114,494. Renewed Sept. 14, 1921. Serial No. 500,708. 12 Claims. (Cl. 144—3.)

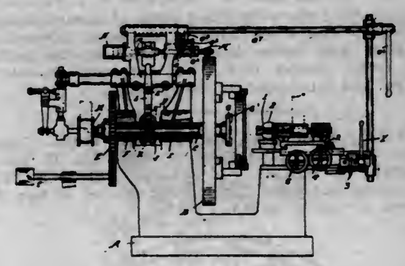
1. In a machine of the kind described, the combination with a wheel support, of a vertically movable lower rotary cutter, a vertically movable upper rotary cutter, an adjustable stop device arranged upon the support and

adapted to stop the lower rotary cutter at a predetermined point of its vertical movement, and an adjustable stop



device for stopping the upper rotary cutter at a predetermined point of its vertical movement, said stop devices being connected together.

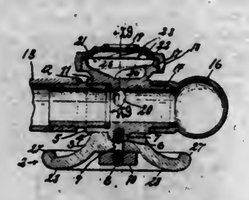
1,459,011. WHEEL BORING AND FACING MACHINE. WILLIAM N. BOOTH, Detroit, Mich. Filed July 5, 1918. Serial No. 243,274. 8 Claims. (Cl. 144—3.)



1. In a wheel facing machine, the combination with a cutter for one face of the wheel variably movable, of a cutter for facing the opposite side of the wheel, and means positioned by the first-mentioned cutter for limiting the movement of the last-mentioned cutter.

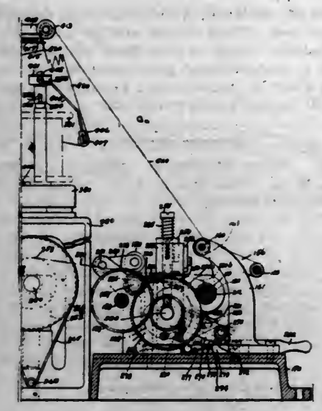
1,459,012. LAWN AND GARDEN SPRINKLING APPARATUS. ADOLPH K. BRAUER, Los Angeles, Calif., Serena Dorathea Brauer, executrix of said Adolph K. Brauer, deceased, assignor to Serena Dorathea Brauer, Los Angeles, Calif. Filed June 4, 1919. Serial No. 301,803. 10 Claims. (Cl. 299—55.)

1. In a spraying apparatus, a weighted disk, an upward extension on said disk, a concave recess in said extension, a barrel having a portion of its periphery fitting into said concave recess and a stud bolt securing said barrel to said extension, an upward extension on said barrel, a chamber in the upward extension of said barrel, there being a passageway from said barrel to said chamber, there being a spiral channel in said chamber, a cap enclosing the top of said chamber, and a



spray nozzle in said cap, said barrel being open at both ends to receive hose connections for the purpose as set forth.

1,459,013. COIL-WINDING MACHINE. EDWIN F. CREAGER and SAMUEL ROGERS, Anderson, Ind., assignors to The Remy Electric Company, a Corporation of Indiana. Filed Nov. 25, 1918. Serial No. 263,989. 74 Claims. (Cl. 242—10.)

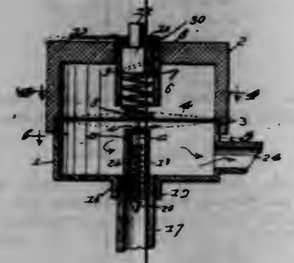


56. In a coil winding machine, the combination with a rotatable arbor upon which paper and wire are to be wound; of a wire guide shiftable in either direction longitudinally of said arbor; provisions for rotating said arbor while feeding said wire guide in one direction; automatic means for stopping said provisions; means for holding a supply roll of paper; means for feeding paper to the arbor from said paper roll, for winding said paper upon said arbor, for cutting off said paper, and for causing said provisions, when again set into operation, to effect the feeding of the wire guide in the opposite direction; and devices for rendering said provisions operative, said devices being ineffective until after the cutting operation has been substantially completed.

1,459,014. PRESSURE GAUGE. CHARLES R. CROSNO, Albuquerque, N. Mex. Filed Nov. 23, 1920. Serial No. 426,062. 2 Claims. (Cl. 50—23.)

1. A tire inflating pressure gauge comprising a casing having an upper and lower section, a diaphragm interposed between said sections, an integral stud formed concentrically with the upper face of said diaphragm, an inlet and outlet port arranged in the lower section of said casing, a valve for said inlet port and arranged therein, means for operatively connecting said valve with the lower face of said diaphragm, an interiorly projecting sleeve carried by the said upper section of the casing and concentrically thereof, said sleeve having

spiral grooves on its inner periphery, a rotatable head slidably carried in said sleeve, a reduced shank formed with said head, a pin carried by said head and adapted to travel within said groove whereby a vertical movement is imparted to said head upon rotation thereof, a coil spring arranged within said sleeve between said head and diaphragm, said stud of the diaphragm projecting within the lower end of the spring to prevent dis-



placement of the latter, a graduated dial arranged upon the upper face of said casing and an indicator carried by the reduced shank of said head and adapted to be moved to a predetermined point whereby the diaphragm is placed under a predetermined pressure through action of the coil spring substantially and in the manner described.

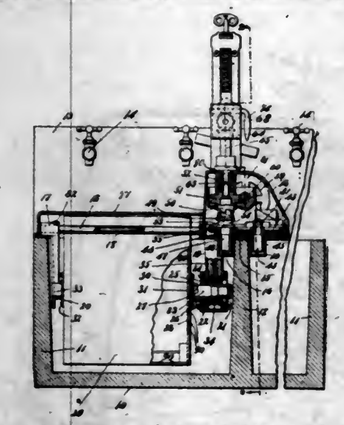
1,459,015. ARCH SUPPORT. MARTIN R. CROSSMAN, Boston, Mass. Filed Mar. 4, 1920. Serial No. 363,120. 1 Claim. (Cl. 36—71.)



An arch support comprising a non-metallic base layer extending from the heel to about the ball of the foot, a non-metallic upper layer co-extensive with the base layer, a supporting member situated between said layers and extending from the inner side of the arch support to a point slightly beyond the median line, a pin extending through the bottom layer and into the arch-supporting member for holding the latter in position, said supporting member being relatively short in the direction of the length of the arch support and being situated centrally thereof, a spring steel strip extending longitudinally of the arch support and situated between the top layer and the supporting member both ends of said strip extending beyond the supporting member, and rivets extending through and connecting the top and bottom layers and said spring strip, said rivets being situated at either end of the supporting member.

1,459,016. PORTABLE POWER WASHING MACHINE ADAPTABLE TO SET TUBS. RALPH A. CUSHING, Brockton, Mass. Filed Dec. 15, 1919, Serial No. 344,961. Renewed May 12, 1922. Serial No. 560,448. 3 Claims. (Cl. 68—18.)

1. A washing machine comprising a frame for spanning a tub and having a hollow end portion, said frame being provided with a pair of depending hangers, means for mounting the frame on the tub, a motor detachably mounted in the hollow end portion of the frame, driving mechanism from the motor also mounted in the hollow



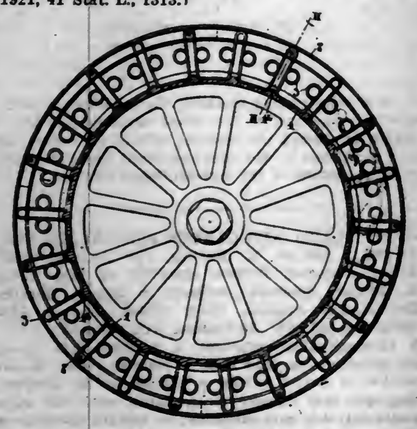
portion of the frame, and a clothes barrel journaled between the hangers and driven by said driving mechanism.

1,459,017. PACKING CASE. WALTER K. DEAN, Erie, Pa. Filed Nov. 12, 1921. Serial No. 514,537. 9 Claims. (Cl. 229—19.)



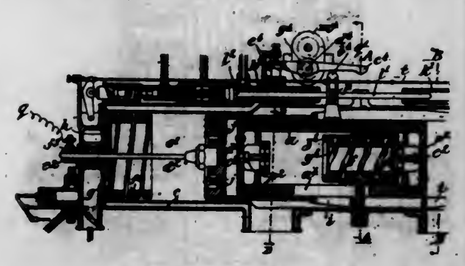
1. In a packing case, the combination of a container; and a pocket piece comprising a series of parallel zig-zag shaped partition strips extending diagonally across the container with return bends at the container walls, said strips crossing each other and being oppositely notched and interlapped at the crossings.

1,459,018. RESILIENT WHEEL AND TIRE. LEON DE WOLF, St. Nicolas, Belgium. Filed Apr. 13, 1920. Serial No. 373,568. 2 Claims. (Cl. 152—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



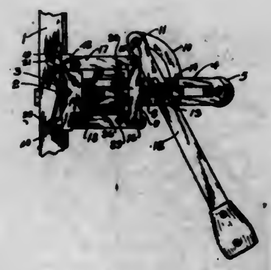
1. A wheel of the kind comprising normally concentric tire and felloe portions with interposed resilient elements characterized by the fact that the resilient elements are formed as radial projections formed from a continuous length of resilient metal bedded in circumferential grooves in the felloe portion of the wheel, said projections being given a U shape and being provided with helical convolutions on each arm of the U.

1,459,019. MOTOR SYSTEM WITH DIRECT TRANSMISSION. ROBERT ESNAULT-PELTERIE, Paris, France. Filed July 1, 1918. Serial No. 242,856. 9 Claims. (Cl. 123—2.)



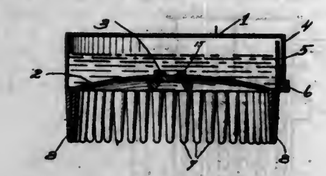
1. In a prime mover the combination of a fixed cylinder, a reciprocable cylinder in said fixed cylinder, said reciprocable cylinder being headed at both ends, a piston in said reciprocable cylinder, valves in both ends of the reciprocable cylinder to provide for the admission of explosive charges between said piston and the opposite heads of said reciprocable cylinder in alternation, and means to explode charges at the opposite ends of said piston in alternation whereby the piston and reciprocable cylinder are alternately driven in opposite directions.

1,459,020. STAPLING MACHINE. PURLY B. EYTCHISON, Mitchell, Nebr. Filed Mar. 28, 1922. Serial No. 547,411. 3 Claims. (Cl. 2—50.)



1. A stapling tool, comprising in combination, a body member, a head member secured to one end provided with an opening adapted to receive and hold a staple, a member slidable in said opening and adapted to serve as an abutment for the staple, a handle pivotally connected to said body member, a bar slidably connected with the body member, means whereby said bar may be moved at will by moving the handle, an arm pivoted to each end of said slidable bar, a wedge member secured to the free end of each arm, resilient means tending to force the free ends of said arms together, positive means for moving them apart as the slidable bar is moved rearwardly by the handle, and means for moving the slidable abutment member as the arms are moved.

1,459,021. FOUNTAIN BRUSH. PETER L. FERM, Kansas City, Mo. Filed Jan. 3, 1921. Serial No. 434,431. 3 Claims. (Cl. 132—13.)



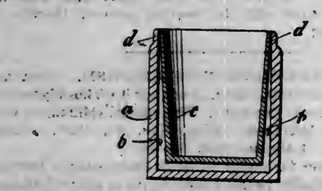
1. In a device of the character described, a liquid container provided with top and bottom portions and formed with an air passage in its side wall having its opposite ends respectively in proximity to the bottom and top portions of the container, and with its exit opening in convenient position for operation by the operator, the bottom portion being provided with a filling opening, and a series of teeth internally formed with exit openings in communication with the container.

1,459,022. RAILROAD SWITCH AND RAIL. IRVIN J. FERNEKES, Chicago, Ill. Filed Nov. 21, 1921. Serial No. 516,736. 6 Claims. (Cl. 246—435.)



3. A switch point for railroad switches formed of a single piece made in the form of a rail of uniform section with the depression in one side of the web filled substantially flush with the head of the rail, one end of the point having the side of the head beveled to engage with the head of the through rail and having the bottom of the flange beveled to engage with the flange of the through rail, the intermediate portion of the web being adapted to project into the space between the head and flange of the through rail.

1,459,023. MATCH STAND, INKSTAND, ASH BOWL, AND THE LIKE ARTICLE. ALBERT HARRY GUEST, Stourbridge, England. Filed Jan. 10, 1921. Serial No. 436,851. 2 Claims. (Cl. 215—12.)

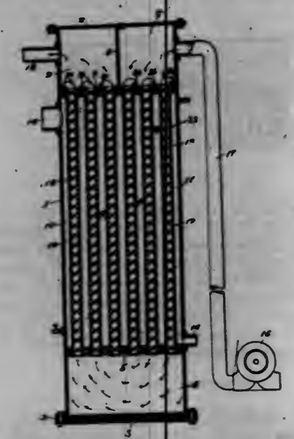


1. The method of decorating a receptacle having a transparent wall which consists in decorating the interior surface of said wall, and then isolating the decorated interior surface of the wall from the outside atmosphere, whereby the brilliancy of said decorated interior surface is maintained over extensive periods.

1,459,024. HEAT-EXCHANGE APPARATUS. HERMAN LOUIS HATTRUP, Denver, Colo., assignor of one-half to Roban J. Binkley. Filed May 31, 1919. Serial No. 301,058. 2 Claims. (Cl. 257—224.)

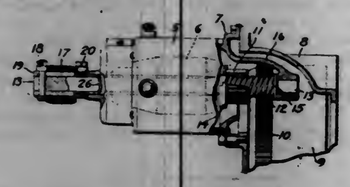
1. In an apparatus for causing thermal transfer between a liquid and a thermal medium; said apparatus

comprising a plurality of tubes, and tube plates for supporting said tubes; means for causing a stream of



liquid to flow through said tubes; removable helicoidal baffles in said tubes, and means whereby said baffles are independently anchored to one of said tube plates.

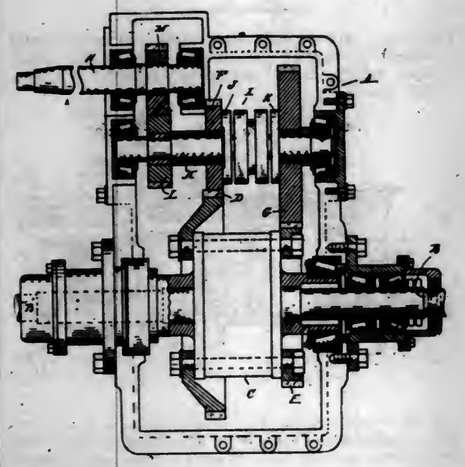
1,459,025. ENGINE STARTER. WILLIAM H. HUTCHINS, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 2, 1916. Serial No. 129,100. 7 Claims. (Cl. 290—48.)



1. In a starting motor unit, in combination, a rotor having a shaft, a casing for said rotor carrying bearings for said shaft, and a driving member for an engine connected to be driven from said shaft and mounted between said rotor and the bearing nearest thereto on one side thereof.

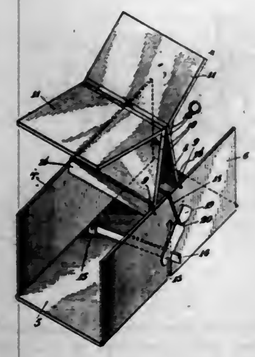
1,459,026. TRANSMISSION MECHANISM. CHARLES E. KOCHER, Detroit, Mich., assignor to The Wyandott-Morpowr Truck Company, Wyandotte, Mich., a Corporation of Michigan. Filed Nov. 21, 1921. Serial No. 516,547. 1 Claim. (Cl. 74—57.)

A transmission for motor vehicles comprising a housing having substantially parallel side walls, a pair of aligned driven shafts journaled in the side walls of said housing, a differential gearing disposed in said housing and operatively arranged between the adjacent ends of said shafts, annular gears surrounding said shafts and engaging opposite sides of said differential gearing, a common means for securing both of said gears to said differential gearing for alternately driving the same, a shaft parallel to the shafts aforesaid journaled in the side walls of said housing, a pair of spur gears sleeved upon the second-mentioned shaft and constantly in mesh with said annular gears, the ratio of said spur gears and said annular gears being different, one of said annular gears being dished, the teeth of said dished gear surrounding said differential gearing whereby the spur gear in mesh therewith is disposed substantially midway between the side walls of said housing, a clutch between said spur gears for alternately coupling the same to the second-mentioned shaft, a gear on the second-mentioned shaft between the adjacent spur gear and one side of said housing, a drive shaft parallel to the shafts aforesaid



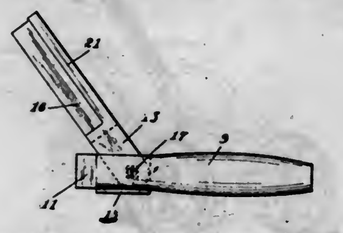
journaled in bearings disposed within said housing, said bearings being located between one of said spur gears and a side wall of said housing, and a gear on said drive shaft in mesh with the last-mentioned gear for rotating the second-mentioned shaft.

1,459,027. ANIMAL TRAP. ANDY KROL, Uniontown, Pa. Filed Aug. 23, 1922. Serial No. 583,605. 1 Claim. (Cl. 43—61.)



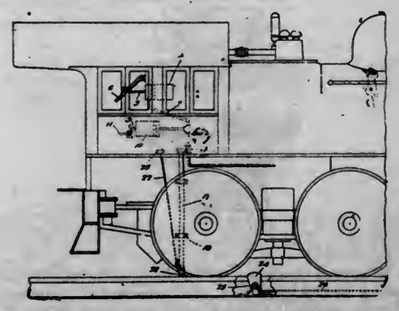
A trap comprising a structure having a floor, fixed side walls, one of said walls being vertically slotted, a bridge between said side walls, a pair of oppositely disposed cover plates pivoted between said side walls adjacent opposite ends of said bridge, cords attached to the cover plates, a ring in said bridge through which the cords pass, a lever pivoted to the floor to extend outwardly through the mentioned slot, said lever having a notch in its upper edge partially within and partially beyond the slot, and a wedge-shaped trigger to which said cords are attached, said trigger being engageable in the notch of said lever whereby the same is held in frictional contact with one side wall of the box, and said covers are normally held in a raised position.

1,459,028. SAFETY-RAZOR-BLADE HOLDER. GUSTAVE LINDELL, Pictou, Nova Scotia, Canada. Filed July 20, 1921. Serial No. 486,139. 3 Claims. (Cl. 30—25.)



1. The herein described holder for safety razor blades and the like, comprising a handle, a locking member inserted in one end of the handle, and comprising spaced plates, a locking flange formed upon one of said plates, a gripping member pivoted at one end between the spaced plates and having its free end cooperating with the locking flange, substantially as and for the purposes set forth.

1,459,029. TRAIN STOP. WILLIAM MAXWELL and LEROY A. BARKER, Fredericktown, Ohio. Filed June 24, 1921. Serial No. 480,141. 1 Claim. (Cl. 246—188.)

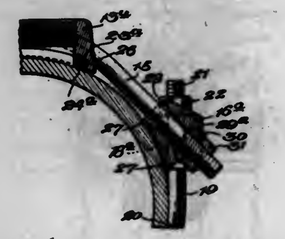


In combination with a throttle and brake levers of a locomotive, a pair of cylinders, pistons therein having their rods engaging the throttle and brake levers, a compressed air tank, a pipe line connecting the same with the cylinders, a valve in the line, a vertically movable rod having its upper end engaging a part on the valve, a block hinged to the lower end of the rod, a member on the track for engaging said block for forcing the rod upwardly, the hinge permitting the block to swing without moving the rod when the locomotive is backing and manually operated means for swinging the block upon its hinge to render the device inoperative.

1,459,030. SERVICE CLAMP. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Aug. 2, 1918. Serial No. 248,001. 22 Claims. (Cl. 137—78.)

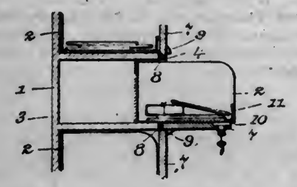
1. A service clamp comprising a saddle plate, clamping bars having curved plate-engaging portions and straight end portions, bridge pieces joining opposite ends of said bars, a strap having a curved central portion engaging the main and straight ends passing through said bridge pieces, and clamping nuts to contract said strap and bars.

12. A saddle plate for service clamps having a pipe-receiving aperture therethrough and a packing receiving recess surrounding said aperture, a packing in said recess extending below the main engaging face of said plate, and having a portion normally projecting beyond the wall of said pipe receiving aperture, said projecting portion adapted to be calked substantially flush with the wall of the pipe receiving aperture when the parts are set up.



16. A saddle plate for service clamps, having an aperture therethrough flared at its end to form a bevelled packing seat thereon, a locking interstice formed in said bevelled seat, and a packing member on said seat having a section provided with substantially parallel sides adapted to be interlocked with said interstice to prevent accidental displacement of said packing.

1,459,031. MAIL BOX. THOMAS FRANCIS MURPHY, New York, N. Y., assignor to The Mail Receptacle Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 4, 1921. Serial No. 458,386. 2 Claims. (Cl. 232—25.)

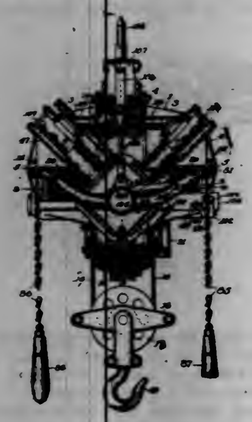


1. A mail box, comprising a series of pigeon-holes and a frame or support therefor, a main door movably fixed to the frame or support, a series of openings in the main door corresponding with the pigeon-holes and coinciding with the openings therein when the main door is closed, a series of smaller doors for the openings in the main door and serving as closures for the pigeon-holes, means for locking and unlocking the main door and the individual smaller doors, a series of receptacles slidably fitted in said pigeon-holes and adapted to be withdrawn therefrom through the openings in the main door when the main door is in closed or locked condition and the smaller doors are opened, and means for supporting the smaller doors in horizontal position to afford a support for the receptacles when withdrawn from the pigeon-holes.

1,459,032. PORTABLE POWER HOIST. REINHOLD A. NOELING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,794. 16 Claims. (Cl. 254—168.)

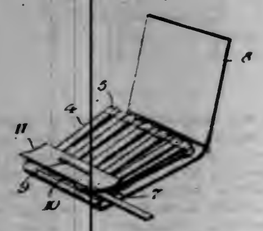
1. A portable power hoist, comprising a casing, two drums therein and spaced apart endwise, means in said

casing for supporting both drums and having the same loosely mounted thereon, a single rope or cable for said drums and having its ends secured thereto with the looped portion of said cable extending out of said cas-



ing, a shaft in said casing between the spaced ends of said drums, a motor carried by said casing and connected with said shaft for rotating the same, and power transmitting means in said casing connecting said shaft with both drums for rotating the same in unison.

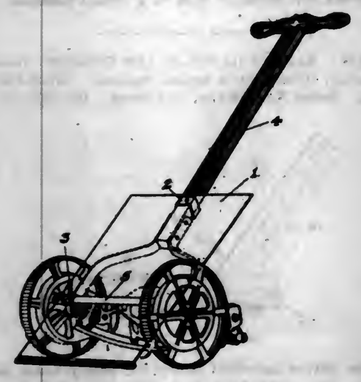
1,459,033. BOOK MATCH. CLARENCE L. PFERSCH, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 22, 1920. Serial No. 375,953. 4 Claims. (Cl. 206—29.)



1. In a match package having a cover portion including an integral end fold provided with an external coating of ignition material, a flexible protective flap mounted on said fold and constituting a permanent part thereof, said flap overlying the said ignition material and having a free lower portion whereby the said flap can be flexed and the head of a match inserted between the flap and the ignition material.

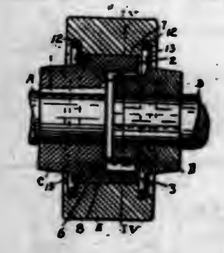
1,459,034. GUARD FOR LAWN MOWERS. WILLIAM E. QUIMBY, Orange, N. J. Filed Dec. 19, 1921. Serial No. 523,351. 2 Claims. (Cl. 56—249.)

1. A guard for lawn mowers, comprising a substantially flat plate, of a width to cover the cutter bars, which is provided with means for detachably mounting it on the machine in position to cover the cutter bars and



when the machine is in operative position to extend at a downward and forward inclination in front of the cutter bars and into proximity with the ground.

1,459,035. FLEXIBLE COUPLING. CHARLES RAISIG, Pittsburgh, Pa. Filed June 8, 1921, Serial No. 475,865. Renewed Jan. 19, 1923. 7 Claims. (Cl. 64—91.)



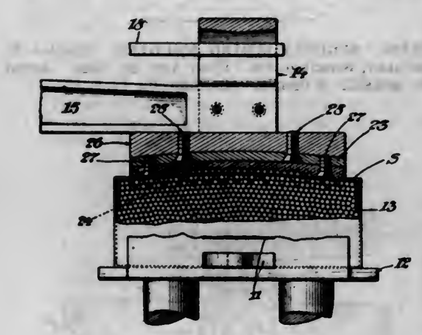
4. A flexible coupling for shafting and the like comprising a housing provided with two sets of opposed interior flat bearing surfaces, said sets being disposed at right angles to each other, and said bearing surfaces being tangential to a circle described from the axis of the housing, a set of exterior parallel flat bearing planes associated with each of the shaft ends, said last mentioned bearing planes being by surface contact mated with the bearing planes of the housing and clearance being provided between the sets of bearing planes of the shaft ends when assembled in the housing, whereby parallel and angular misalinement and axial movement are provided for.

1,459,036. DEODORIZING MATERIAL. OTTO F. REINHOLD, Maplewood, N. J. Filed Jan. 11, 1922. Serial No. 528,456. 4 Claims. (Cl. 167—3.)

1. A deodorizing composition which comprises, a mixture of ortho dichlor benzol and a volatile solidifying agent in amount sufficient to form a substantially solid deodorizing block.

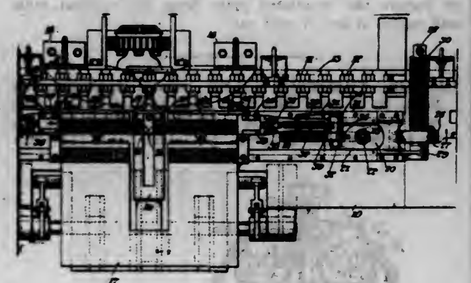
4. A deodorizing composition which comprises a mixture of the chlorination products of benzol with the exception of substantial amounts of mono-chlor-benzol and the para-dichlor benzol and in which the ortho-dichlorbenzol predominates, and naphthaline in sufficient quantity to form a substantially solid deodorizing block.

1,459,037. MACHINE FOR PACKING MATCHES. EUGENE SNYDER, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1921. Serial No. 484,964. 6 Claims. (Cl. 226—7.)



1. In a match packing machine having means for feeding filled box trays provided with protection strips, an ironing device having a concave face arranged to bear upon the protection strips of the successive trays, and means for reciprocating said device upon the strips.

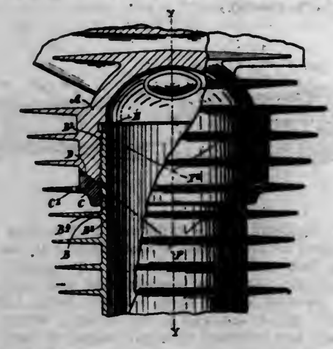
1,459,038. MACHINE FOR MAKING MATCH BOOKS. GEORGE TURNER, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1921. Serial No. 488,844. 3 Claims. (Cl. 164—48.)



1. In match-strip feeding mechanism for match-book machines having a cutter operable to sever successive match cards from the strips, a pusher reciprocable toward and from the cutter and operative in its forward movement to act against the end of the strips remote from the cutter, means for reciprocating said pusher, and means for raising said pusher and maintaining it raised during its return movement.

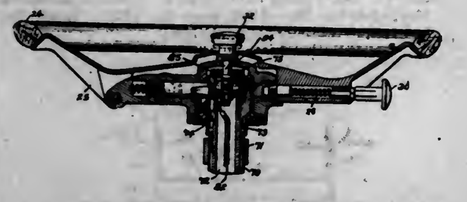
1,459,039. ENGINE CYLINDER. SPIRITO MARIO VIALE, Coventry, England, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Filed Aug. 11, 1921. Serial No. 491,331. 3 Claims. (Cl. 74—108.)

1. In an engine cylinder, the combination with the barrel having screw threads thereon, and a head screwed upon said barrel, of a locking ring screwed upon the said



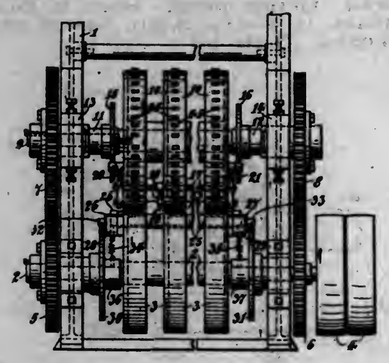
barrel and bearing against the inner end of the said head so as to exert a thrust thereon on expansion.

1,459,040. STEERING WHEEL. EDWARD H. VINCENT, Detroit, Mich. Filed Sept. 7, 1922. Serial No. 586,688. 21 Claims. (Cl. 74—33.)



1. In a steering wheel, a shaft, a head mounted thereon, a wheel spider carried by the head, an operating button carried by the spider, and electrical contact elements mounted within said head and arranged to be actuated by said operating button.

1,459,041. MACHINE FOR OPERATING ON PAPER. HOWARD G. WIDMER, Brooklyn, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a Corporation of New York. Filed May 4, 1918. Serial No. 232,606. 10 Claims. (Cl. 164—68.)



1. A cutting roll of a paper machine having a radial recess in its periphery; a knife reciprocating in said recess; and a paper holding bar carried yieldingly by said knife at its side in said recess.

1,459,042. ARTIFICIAL BAIT. JAY L. WEBER, Stearns, Ky. Filed Nov. 11, 1922. Serial No. 600,221. 2 Claims. (Cl. 43—36.)



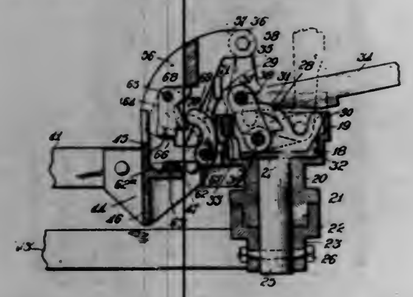
2. In an artificial bait, a head and body section slidably connected to each other, a hook secured at one end within the body and adapted to normally project outwardly thereof, a pin slidable within the body and connected at one end to said hook, said pin being notched adjacent the upper end and a rod slidable within the body section and disposed at right angles to said pin, the front end of said rod projecting outwardly of the body and secured to the head section, the opposite end of said rod adapted for engagement with the notch of said pin when the hook is extended within the body for maintaining the same therein.

1,459,043. SANITARY SOAP TRAY. JOHN G. ANDREWS, Murphysboro, Ill. Filed Aug. 21, 1922. Serial No. 583,115. 2 Claims. (Cl. 45—28.)



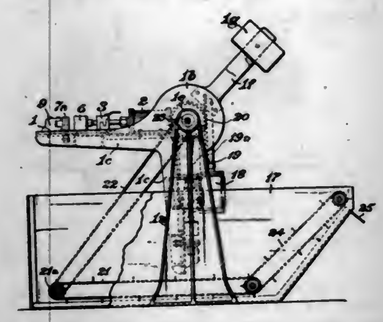
1. A soap holder comprising a rectangular container having a downwardly inclined bottom, a drain plate in said container, curved spring arms on said drain plate extending over the edges of the container, and means engaging said arms for supporting the drain plate at various heights, relative to the bottom of said container.

1,459,044. LIFTING TRUCK. ARTHUR M. BARRETT, Winnetka, Ill. Filed Dec. 21, 1917. Serial No. 208,280. 21 Claims. (Cl. 254—10.)



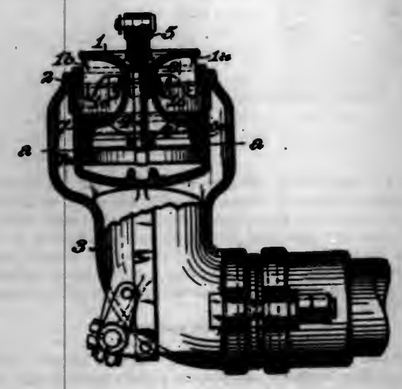
1. A lifting truck comprising main and elevating frames, a cross-head at the forward end of said frame, a centrally-disposed tubular bearing member depending from said cross-head and having an intermediate peripheral flange, a bearing block fitted upon the lower end of said bearing member and engaging said flange, wheels carried by said bearing block, a king bolt connected to said bearing block and extending up through said bearing member, and means connected with the upper end of said king bolt for raising said elevating frame and for rotating said king bolt to steer said wheels.

1,459,045. SPRING-FORMING MACHINE. THOMAS F. BUCKLEY, Scranton, Pa. Filed Aug. 20, 1921. Serial No. 493,832. 3 Claims. (Cl. 266—6.)



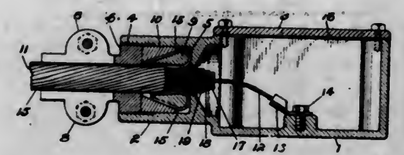
1. In a spring forming machine, the combination with an oil vat, of a plurality of tables at right angles to each other, journalled above said vat so as to swing into and out of the same, a flexible resistance member on each table, means to impart variable tension to said member, a power-actuated cross-head on each table movable towards and from said member, a formation plate of adjustable curvature carried by said cross-head, power-actuated means to oscillate said tables into horizontal position above said vat or into vertical position in the same, and a conveyor in said vat, driven by said means, to receive the completed plate from the vertical table and convey it out of said vat.

1,459,046. THROTTLE VALVE. FRANK H. CLARK, New York, N. Y., and EDWARD J. BARNETT, Chicago, Ill.; said Barnett assignor to said Clark. Filed Feb. 17, 1921. Serial No. 445,584. 5 Claims. (Cl. 277—37.)



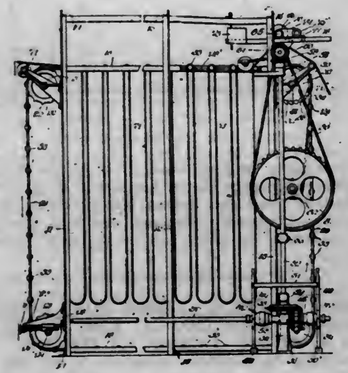
1. The combination of a throttle valve, controlling a fluid flow passage; a stem, on which said valve is fitted, with the capacity of relative movement; a seat on which said valve is adapted to close; means, connected with said valve for first effecting a gradually increasing degree of fluid admission, in the preliminary stage of unseating the valve, then continuing admission without substantial increase in degree, and thereafter progressively increasing the degree of admission throughout the unseating traverse of the valve; and a balancing valve, fixed on the valve stem.

1,459,047. GROUNDING BOX FOR ELECTRICAL PILOTING CABLES. ALFRED CROSSLEY, Washington, D. C. Filed Feb. 5, 1921. Serial No. 442,849. 1 Claim. (Cl. 177—385.)



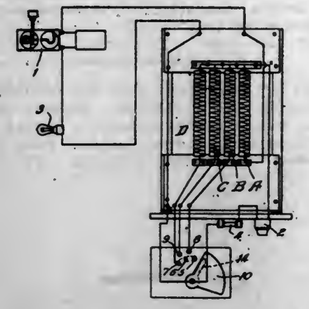
A protective grounding means for armored electrical piloting cables comprising a water-tight box of electrical conducting material fixedly secured and electrically connected to the armor of said cable at its sea end, and means for electrically connecting the conductor of said cable to the interior of said box.

1,459,048. LOOPER. HARRY A. CUMFER, Chicago, Ill., assignor to Guyton & Cumfer Mfg. Co., a Corporation of Illinois. Filed Mar. 21, 1921. Serial No. 454,248. 6 Claims. (Cl. 34—12.)



1. A device for arranging a continuous sheet of constantly moving fabric in uniform, parallel loops, comprising a frame; transversely positioned, uniformly spaced-apart, parallel supports, one for each loop; means for bodily and continuously moving said supports along a common path on said frame; means to hold the fabric on each support consecutively while moving, whereby to form a loop between adjacent supports and means to accelerate formation of subsequently formed loops.

1,459,049. ELECTRIC HEATER. ACHILLES DE KHOTINSKY, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1921. Serial No. 492,224. 13 Claims. (Cl. 219—20.)



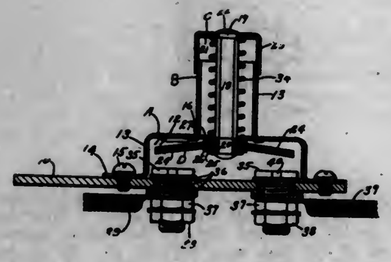
1. In a device of the character described, a plurality of heating units, one of which is of less wattage than the others, and means to cut in said smaller unit alternately with each of the larger units.

1,459,050. SKATE AND METHOD OF MAKING THE SAME. CARL B. DREVITSON, Somerville, Mass. Filed Aug. 23, 1921. Serial No. 494,513. 5 Claims. (Cl. 46—50.)



1. A skate comprising a runner having a plurality of tongues projecting from its upper edge and extending in a row longitudinally of the runner, the ends of said tongues being undercut, and a one-piece casting including an elongated base portion cast upon the upper edge portion of the runner and surrounding said tongues, and upstanding foot-supporting standards integral with said base portion.

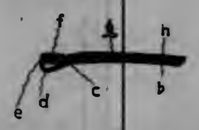
1,459,051. STARTING SWITCH. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed Oct. 18, 1920. Serial No. 417,595. 11 Claims. (Cl. 200—159.)



1. In a switch comprising a base with spaced contacts thereon and a cover with a central aperture therein,

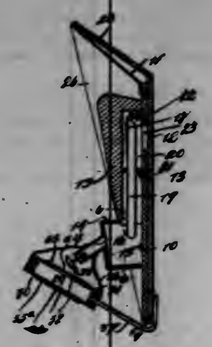
said aperture having an irregular outline, a switch member having a head adapted to to span said contacts and a shank loosely received in said aperture, and a member having portions turned down around the head and up around the shank whereby said portions may pass through and co-act with the irregular portions of the aperture thereby preventing rotary movement of the head relative to the base.

1,459,052. MOUNTING FOR ADVERTISEMENTS, CALENDARS, AND PICTURES. HENRY L. GULLINE, Montreal, Quebec, Canada, assignor of one-half to John Hyde, Westmount, Quebec, Canada. Filed May 24, 1922. Serial No. 563,464. 2 Claims. (Cl. 40—152.)



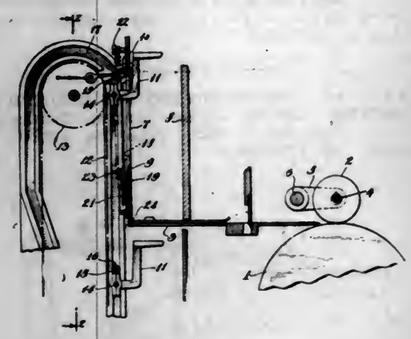
1. A picture mounting consisting of a one piece member composed of a rigid material presenting a bent back marginal flange and a middle portion embossed to rise in slight convexity through the marginal flange, a concaved portion connecting the convex portion to the outer edge of the flange, and the space between the juncture of the convex and concaved portions and the inner edge of the flange being constricted and the free edge of the flange being disposed at an angle to the said convex portion whereby the inner edge of the flange acts as a jaw in conjunction with the convex portion to grip the picture.

1,459,053. VOICE FOR DOLLS. EMANUEL HALPERN, New York, N. Y. Filed Mar. 4, 1922. Serial No. 541,020. 6 Claims. (Cl. 46—46.)



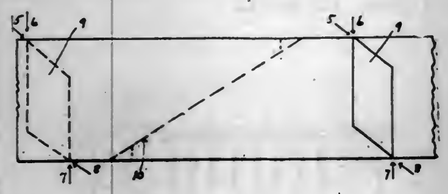
4. In combination with a wind-chest having a movable member, a reed associated with the chest, a drum supported by the wind-chest adjacent the movable member, each end of said drum being provided with an opening, means to convey air from the wind-chest to said drum, and a shutter carried by the movable member of the wind-chest arranged to pass through said openings to interrupt the sound produced by the reed.

1,459,054. WRAPPING MACHINE. RAYMOND S. HATCH, Nutley, N. J., assignor to The Hammersley Manufacturing Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1922. Serial No. 567,253. 7 Claims. (Cl. 93—2.)



1. In a wrapping machine, a pair of plates spaced from each other to form a passageway or chute, elevating fingers for raising an article in said chute, one of said plates being provided with slots for the passage of said fingers and gates for automatically closing said slots.

1,459,055. METHOD OF MAKING AUTOMOBILE CHOCK BLOCKS. ROBERT L. HICE, Montgomery, Ala., assignor to Forest Products Company, a Limited Partnership composed of G. D. Johnson, J. W. Hice, and said Robert L. Hice. Filed Dec. 1, 1922. Serial No. 604,295. 1 Claim. (Cl. 144—309.)



The method of making chock block blanks consisting in cutting out lozenge shaped portions from a relatively long stick of wood and leaving billets having steps at each end but diagonally disposed, and then sawing the billets diagonally to leave two chock block blanks for each billet.

1,459,056. POLISHING COMPOSITION. AUGUSTA C. HOUSWORTH, Mason City, Ill. Filed Dec. 11, 1922. Serial No. 606,292. 1 Claim. (Cl. 134—25.)

A polishing composition consisting of oil free soap, distilled water, flake graphite and turpentine and these being combined in the proportions of forty per cent soap, forty per cent water, eighteen per cent graphite and two per cent turpentine.

1,459,057. BRIDGE FOR STRINGED MUSICAL INSTRUMENTS. JESSE GEORGE JONES, East Ham, England. Filed Dec. 21, 1921. Serial No. 523,863. 2 Claims. (Cl. 84—309.)

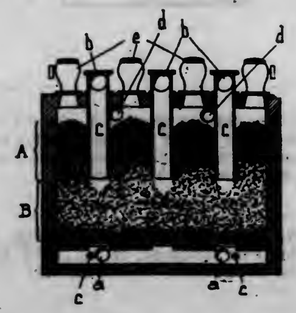
1. A bridge for violins and like stringed musical instruments formed of a single piece and comprising a

string-carrying body portion with supporting legs therefor, said supporting legs having substantially vertical



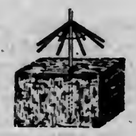
openings therethrough extending from the base into communication with atmosphere without interference with the said body portion.

1,459,058. APPARATUS FOR REMOVING BLAST GASES FROM WATER-GAS GENERATORS. HEINRICH KNÖFEL, Frankfort-on-the-Main, Germany. Filed Oct. 11, 1921. Serial No. 507,084. 1 Claim. (Cl. 48—78.)



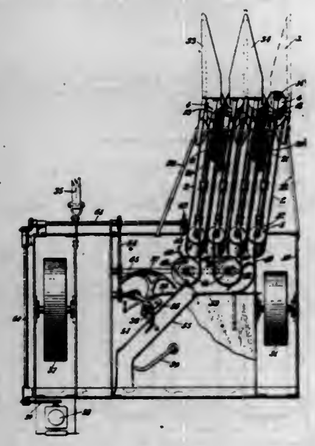
The combination with a water-gas generator of the type operating with alternate gas-making and air-blasting periods and having an upper distilling zone and a lower combustion zone during the blasting period, of means extending downwardly from the top of the generator through the distilling zone and terminating at the zone of separation between said distilling and combustion zones to provide a conduit through which the blast gases formed in the said combustion zone during the blasting period are carried directly out of the generator without passing through the upper distilling zone.

1,459,059. PROCESS FOR REFINING ORGANIC MATTER USED AS MANURE. HERMANN KRANTZ, Memmingen, Germany. Filed July 3, 1922. Serial No. 572,599. 4 Claims. Cl. 71—6.)



1. A process for refining farmyard manure, household and town refuse and the like which consists in heaping the material in loose layers to allow a rapid fermentation thereof and subjecting the material to pressure only to check the fermentation after the fermentation has been substantially completed.

1,459,060. FLAX-HARVESTING MACHINE. THEODORE KREIPE, Floral Park, N. Y., assignor to Victor E. Freeman and Louis Prevost Whitaker, both of New York, N. Y. Filed July 7, 1921. Serial No. 482,874. 9 Claims. (Cl. 55—66.)



1. In a flax harvesting machine, the combination of a plurality of pulling mechanisms each comprising a pair of vertically disposed pulling belts having inclined parallel opposed portions, with a vertically disposed binding mechanism, and transferring mechanism comprising horizontally rotatable arms for sweeping the pulled stalks, in vertical parallel relation, from the pulling mechanisms into the binder, and means for rotating said arms at sufficient speed to carry the pulled stalks into the binder without permitting them to fall vertically.

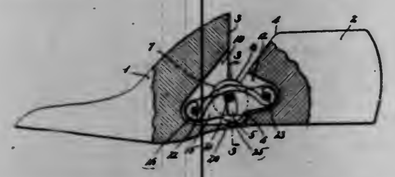
7. In a flax harvesting machine, the combination with pulling units, of a transferring reel comprising among its members a vertically rotatable shaft, a rotary device carried thereby, pivotally mounted arms on said rotary device, a stationary part having a cam for controlling said arms when in operative position, and an eccentrically located stop for retracting said arms.

9. In a flax harvesting machine, the combination with pulling units, of a transferring reel comprising among its members a vertically rotatable shaft, a rotary device carried thereby, pivotally mounted arms on said rotary device, a stationary part having a cam for controlling said arms when in operative position, and an eccentrically located stop for retracting said arms, each of said arms being provided with a curved segmental portion for engaging said cam, an eccentrically mounted roller for engaging said cam, and a vertically disposed flange of less length than the arm for engaging said stop, and adapted to disengage the stop at the instant of engagement of said roller with said cam.

1,459,061. COMBINED LINK AND HINGE LAST. WALTER A. KRENTLER, Detroit, Mich., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich., a Corporation of Michigan. Filed June 21, 1922. Serial No. 569,983. 5 Claims. (Cl. 12—136.)

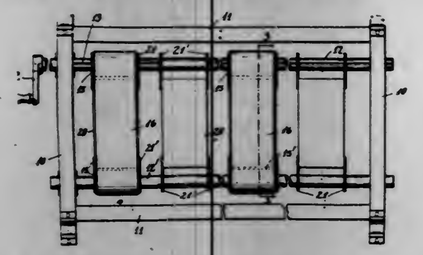
3. A two-part last having said parts constructed and arranged for relative movement, and means for uniting said parts, comprising a uniting pivotal member and a

uniting link member, the link member being united to the last parts at points distant from the said pivot, in



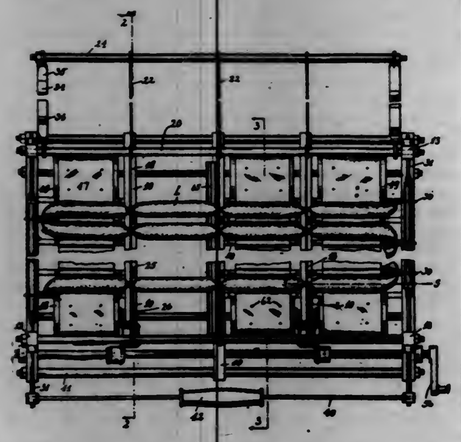
combination with a spring positioned each side of the link and extending in a line free of said pivot during the operation of flexing the last.

1,459,062. SAUSAGE-TWISTING DEVICE. FERDINAND KRUSE, Port Richmond, N. Y. Filed Apr. 16, 1921. Serial No. 461,879. 14 Claims. (Cl. 17—34.)



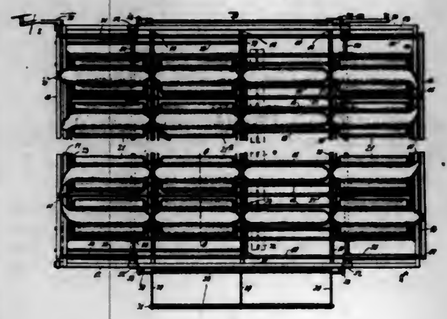
2. In a sausage forming machine, a base member, a frame removably supported thereon, a series of elements carried by said frame and adapted to contract a length of sausage at selected points, and means mounted upon said base member adapted to impart a rotary movement to said sausage at certain points.

1,459,063. SAUSAGE LINKING AND TWISTING DEVICE. FERDINAND KRUSE, Port Richmond, N. Y. Filed June 22, 1921. Serial No. 479,461. 15 Claims. (Cl. 17—34.)



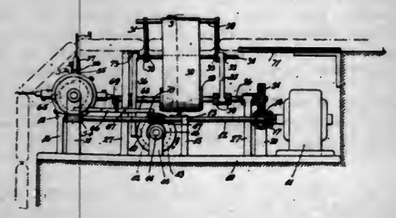
1. In a sausage linking and twisting machine, a plurality of endless twisting belts, intermediate former elements arranged between said belts, and end former elements arranged transversely to said intermediate former elements.

1,459,064. SAUSAGE-TWISTING DEVICE. FERDINAND KRUSE, Port Richmond, N. Y. Filed Jan. 12, 1922. Serial No. 528,623. 17 Claims. (Cl. 17—34.)



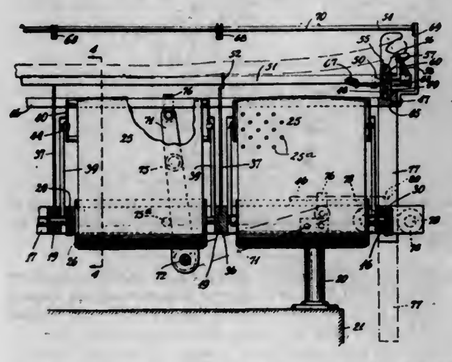
1. In a sausage twisting machine a plurality of endless belts adapted to receive a sausage casing between them and means to normally hold said belts yieldingly in frictional engagement with said casing.

1,459,065. SAUSAGE-TWISTING DEVICE. FERDINAND KRUSE, Port Richmond, N. Y. Filed July 10, 1922. Serial No. 573,990. 17 Claims. (Cl. 17—34.)



1. In a sausage twisting machine, means to squeeze the sausages to divide them into spaced links, means to twist the casings to secure them in linked condition, said twisting means comprising a pair of cooperating pivotally mounted endless belts, adapted to be moved upon their pivots into and out of engagement with the sausage casings, and said squeezing means comprising a pair of former elements pivotally mounted adjacent the side edges of said belts, and a single means for actuating said former elements and belts into and out of engagement with the sausage casings.

1,459,066. SAUSAGE-TWISTING DEVICE. FERDINAND KRUSE, Port Richmond, N. Y. Filed Oct. 21, 1922. Serial No. 595,889. 38 Claims. (Cl. 17—34.)



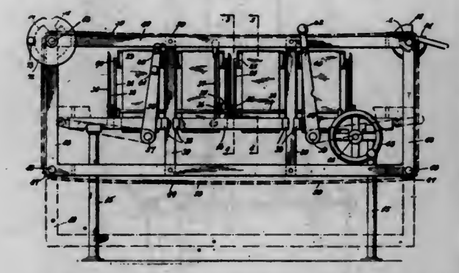
1. In a sausage twisting machine, sausage twisting means, means to operate said sausage twisting means, and means to automatically stop the operation of said twisting means after a predetermined movement thereof.

1,459,067. SAUSAGE-TWISTING MACHINE. FERDINAND KRUSE, Port Richmond, N. Y. Filed Nov. 18, 1922. Serial No. 601,794. 10 Claims. (Cl. 17—34.)



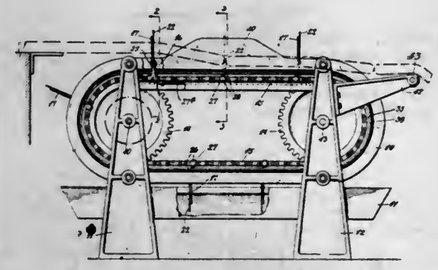
1. In a sausage twisting machine of the type wherein a plurality of endless belts and former elements are provided to twist into a plurality of links, a sausage casing which is threaded back and forth through the machine, characterized by a main removable frame upon which the sausage casings are threaded back and forth preparatory to inserting them into the machine, said frame having a detachable auxiliary frame portion upon which the twisted sausage may be removed to a smoke house.

1,459,068. SAUSAGE-TWISTING MACHINE. FERDINAND KRUSE, New York, N. Y. Filed Jan. 13, 1923. Serial No. 612,409. 11 Claims. (Cl. 17—34.)



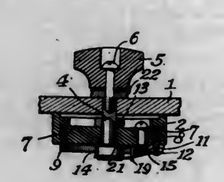
1. A sausage twisting machine having a plurality of longitudinally extending rows of vertically extending endless twisting belts having their opposed vertical reaches spaced longitudinally of the machine to form a plurality of parallel free spaces extending transversely of the machine in which a plurality of sausage casings may be received, means to rotate said belts, means to cause the vertical reaches of adjacent belts to be moved to and from each other by the travel of said belts in opposite directions and a plurality of cooperating pairs of former elements slidable longitudinally of said machine adapted to compress said plurality of casings at predetermined points, means for lifting said casings from between said belts and conveying the casings through the machine.

1,459,069. METHOD AND MACHINE FOR FORMING SAUSAGES. FERDINAND KRUSE, Port Richmond, N. Y. Filed Feb. 19, 1923. Serial No. 619,964. 21 Claims. (Cl. 17—34.)



1. The method of forming a sausage casing into links which consists in compressing the casings at spaced intervals and applying heat thereto at said intervals to contract the casing and thereby secure it in linked form.

1,459,070. RHEOSTAT. ALFRED P. MORGAN, Montclair, N. J. Filed June 28, 1921. Serial No. 480,963. 10 Claims. (Cl. 219—48.)



1. In a rheostat, a circularly grooved base of insulating material, a core of insulating material having a configuration corresponding to said groove, and a variable resistance conductor spirally disposed about said core, said core and conductor being adapted to fit removably within said groove and to project therefrom above the face of said base, and being further adapted to be removed, reversed and reinserted in said groove when it is desired to change the order of resistance-variation.

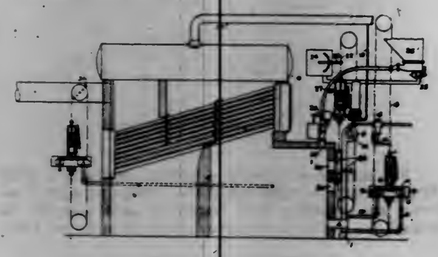
1,459,071. WINDOW CLEANER. CARL F. MUMAW, Scranton, Pa. Filed Oct. 8, 1921. Serial No. 506,484. 1 Claim. (Cl. 15—126.)

A window cleaning device including a pipe, said pipe having perforations formed therein, a length of fabric material wound around the pipe, a housing partly surrounding said pipe and fabric material, said housing being also adapted to house portions of the ends of the pipe

and fabric material, a pipe extending through the fabric material and having one end disposed within the perforated pipe to deliver fluid thereto, and the last mentioned pipe having threads to permit it to be secured to the first mentioned pipe, and said housing contacting with the cloth material.



1,459,072. REGULATION OF COMBUSTION OF GAS AND POWDERED FUEL. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed Oct. 30, 1920. Serial No. 420,688. 3 Claims. (Cl. 236—14.)



1. The combination with the furnace of a vapor generator, means of supplying the gaseous fuel to such furnace and means controlled by and in accordance with changes in pressure of the vapor generated for supplying another rapidly combustible fuel to the furnace in proportion to the drop in pressure of the vapor generated.

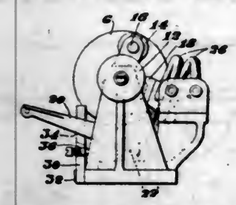
1,459,073. SELF-FILLING FOUNTAIN PEN. STANLEY E. PETERS, Chicago, Ill., assignor, by mesne assignments, to Kritikson Bros., Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1919. Serial No. 325,629. 26 Claims. (Cl. 120—46.)



13. In a self filling fountain pen the combination of a barrel, a sack arranged within the barrel and means for compressing the sack and releasing the same, said means including a lever, a rotatable member and a member operable thereby which is slidable within the barrel and which is moved outwardly to cause the lever to be depressed and inwardly to raise the same.

1,459,074. BOBBIN-WINDING MACHINE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 27, 1920. Serial No. 399,282. 5 Claims. (Cl. 242—24.)

1. A bobbin winding machine having, in combination, means for rotatably supporting a bobbin, means for rotating the bobbin, a lever, a thread presser formed on the free end of said lever for engaging the thread as it



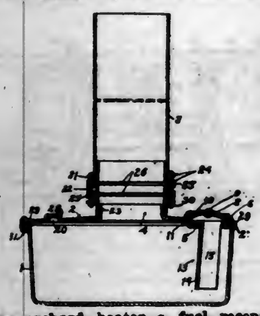
is wound on the bobbin, and a heating device carried by the thread presser in close proximity to the point of engagement with the thread.

1,459,075. FUSE FOR ARTILLERY AND AVIATION PROJECTILES. LÉON EMILE RÉMONDY, Rueil, France. Filed Sept. 2, 1921. Serial No. 497,837. 11 Claims. (Cl. 102—39.)



6. In a fuse for projectiles, the combination of a fuse body, a hollow member slidable within the said fuse body and provided with a head extending outwardly of the said fuse body, fixing means for securing the said hollow member to the said fuse body and adapted to break under the action of the inertia of the fuse body and the projectile when the said head encounters an obstacle, means for obtaining a strong braking action upon the said hollow member in its movement towards the rear of the fuse body, the said means consisting in conical narrowed portions formed in the said fuse body co-operating portions of the said hollow member and adapted to undergo deformation by being forced into the said narrowed portions, a primer and a striker disposed within the said hollow member, and means provided within the said hollow member for affording a certain resistance to the movement of these two elements towards each other.

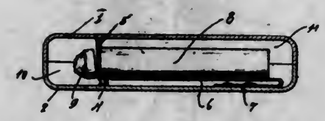
1,459,076. ORCHARD HEATER. WILLIAM C. SCHEU, Los Angeles, Calif. Filed June 10, 1920. Serial No. 387,890. 4 Claims. (Cl. 158—91.)



1. In an orchard heater a fuel receptacle, a cover mounted thereon and having an outlet stack and an air

inlet opening, a deflector member at said opening and having ribs extending downwardly into the fuel receptacle, said ribs extending divergently so as to form vertical channels for receiving the air entering at said inlet opening, and acting as an obstruction to maintain a flame at the air inlet opening and prevent the draft from pulling it directly to the stack.

1,459,077. CIGARETTE-SALVAGE CASE. HAROLD J. WINANS, Nashville, Tenn. Filed Feb. 25, 1921. Serial No. 447,689. 1 Claim. (Cl. 206—41.)

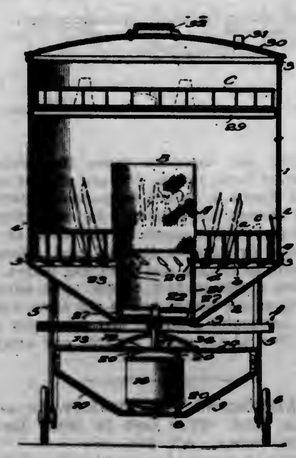


A cigarette case comprising a hollow cylindrical casing having integral ends, said casing being split longitudinally at its center forming two symmetrical sections, a relatively wide arcuate seat in one of said sections, the radius of the concave portion of said seat being equivalent to the radius of the cigarette, a light flexible plate secured in the bottom of the same section, said plate being folded upon itself to extend nearly to said seat, and a circular shear blade fixed in the other of said casing sections adapted to cooperate with the outer edge of said seat in shearing a cigarette resting partially on the seat and on said spring plate, said blade being equivalent in diameter to the interior of the casing.

1,459,078. CONFECTION AND METHOD OF MAKING THE SAME. ARMSTEAD M. ALEXANDER, Independence, Mo. Filed Sept. 21, 1922. Serial No. 589,707. 1 Claim. (Cl. 99—16.)

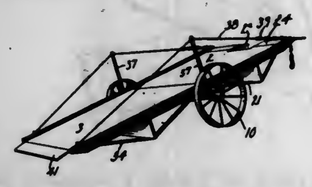
The method of preparing a confection which consists in heating chocolate to a degree of temperature above the melting point thereof and introducing the same in its heated condition into a vehicle reduced to a temperature low enough, to cause the chocolate to flake off or shatter into relatively small particles of distinct identity held in suspension within the vehicle.

1,459,079. WASHING MACHINE. JAMES T. ANTHONY, East Orange, N. J. Filed July 9, 1921. Serial No. 483,502. 3 Claims. (Cl. 141—9.)



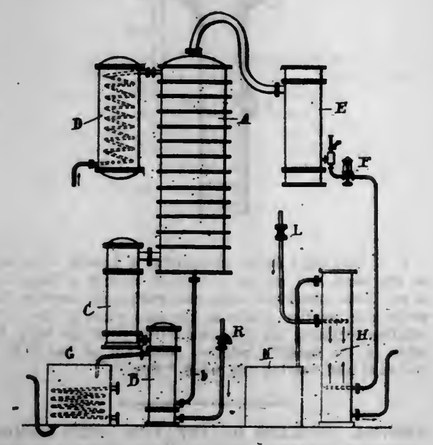
3. A washing machine comprising a container provided with a conically-shaped lower portion, a water distributor centrally located in said lower portion and provided at its bottom with ports adapted to permit ingress of water, a rotative impeller mounted in said distributor, opposite said ports, and radially extended fins connected to the outside of said distributor having their lower edges contacting the surface of the lower portion of said container, whereby to prevent circulatory motion of the water outside of and adjacent said distributor, substantially as described.

1,459,080. MOVABLE UNLOADING PLATFORM. HUGO ARNATEIN and CHARLES M. MARDEL, Oakland, Calif. Filed Mar. 21, 1921. Serial No. 453,077. 9 Claims. (Cl. 280—32.)



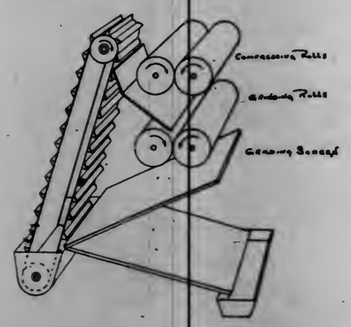
5. A portable unloading platform comprising transversely, hingedly connected platform sections adapted to assume different angular relations and wheeled supporting means disposed substantially in the vertical plane of the hinge.

1,459,081. PROCESS OF CONTINUOUS SULPHONATION OF BENZENE, APPLICABLE TO IMPURE BENZENES. PIERRE ALEXANDRE BARBET, Paris, France. Filed Apr. 23, 1917. Serial No. 163,898. 18 Claims. (Cl. 260—159.)



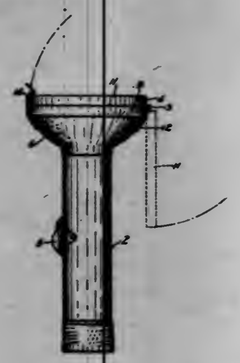
1. A process of sulfonating benzene in a continuous manner, which comprises converting the benzene into a vaporised condition and bringing such vapor into continuous, intimate and methodical contact with heated concentrated sulfuric acid, supplying the heated sulfuric acid in a continuous manner, and removing the benzene sulfonic acid continuously.

1,459,082. PROCESS FOR PREPARING SALT AND THE LIKE. HAROLD W. BARTLETT, Alvarado, Calif., assignor to Continental Salt and Chemical Company, San Francisco, Calif., a Corporation of California. Filed Apr. 8, 1922. Serial No. 550,864. 9 Claims. (Cl. 83—61.)



1. The process of treating a crystalline substance which consists in compressing a powder of said substance into relatively large masses and then reducing the said masses to the desired size.

1,459,083. ELECTRIC LAMP. ALBERT W. BECKER, Windsor, Conn. Filed Apr. 20, 1922. Serial No. 555,674. 2 Claims. (Cl. 240—8.5.)

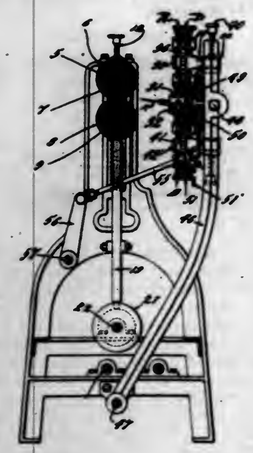


1. A flash-light device comprising a handle to be held in the hand and having a head to receive a lamp, and a red lens associated with the head and movable into active and inactive relations, the lens when in the active relation receiving the rays emanating from the lamp and when in the inactive relation being out of the path of the rays and bearing the word "Stop."

1,459,084. PROCESS OF TREATING ACID SLUDGE. OSBORNE BEZANSON, Woburn, Mass., assignor to Merrimac Chemical Company, Woburn, Mass., a Corporation of Massachusetts. Filed May 14, 1921. Serial No. 469,614. 4 Claims. (Cl. 23—1.)

1. Process of treating acid sludge from the refining of petroleum, comprising injecting or spraying the same in subdivided state together with the necessary air into a chamber maintained at a sufficient temperature to effect substantially complete decomposition of the sludge with liberation of its sulfur content as sulfur dioxid.

1,459,085. KNIFE-POLISHING MACHINE. JOHN S. BLACK, Olivette, Mo., assignor to Simmons Hardware Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 8, 1921. Serial No. 490,553. 19 Claims. (Cl. 51—41.)



1. A knife polishing machine comprising a flexible endless carrier, means whereby said flexible endless carrier is driven in a straight line and in lines diverging from the ends of said straight line, a knife holder adapted to interlock with said flexible endless carrier, a straight guide member cooperating with said carrier to retain the knife holder in interlocking engagement therewith, said straight guide member being separate from said carrier and parallel with said straight line, and a rotary polishing roll adapted to engage the knives held by said knife holder.

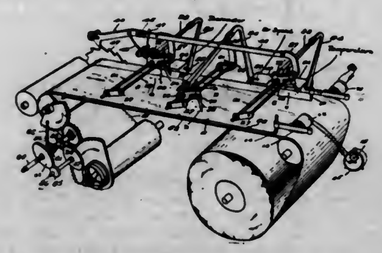
1,459,086. DINING TABLE. ISAAC COOKLIN, Liverpool, England. Filed Sept. 1, 1921. Serial No. 497,675. 4 Claims. (Cl. 45—112.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



3. In a loose leaf extension table, the combination of a plurality of loose leaves, two end frames and top portions fixed thereto, a central top portion, intermediate frames fixed thereto and working in connection with the said end frames and supported one from the other, cut away parts or gaps in the end and intermediate frames adapted to receive and hold the leaves, means connected with a sliding part of the table adapted to act upon parts on the leaves, and to tilt same, and move same to the horizontal position, and means for moving the end portions of the table towards and away from one another.

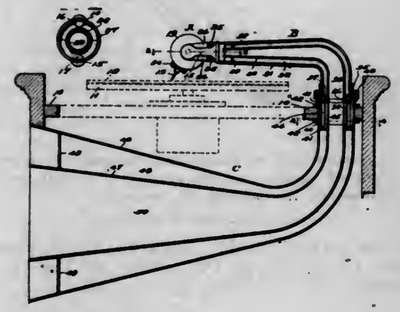
1,459,087. RECORDING INSTRUMENT. CLAUDE E. COX, Detroit, Mich. Filed Sept. 23, 1918. Serial No. 255,256. 13 Claims. (Cl. 234—29.)

1. A recording instrument comprising means for supporting a record-receiving element, a driving train for positively driving said record-receiving element and comprising means by which it may be connected to a motor the performance of which is to be noted, a plurality of record-producing elements arranged adjacent the record-receiving-element travel-line, means by which said record-producing elements may be moved into and out of record-producing position, a corresponding plurality of variable indicators, each connected to a record-producing member by means capable of shifting said record-producing



member to vary its position relative to the record-receiving elements in accordance with the variations of conditions of said indicator, a time train, a record-producing element arranged in position to be continuously in record-producing engagement with the record-receiving element, and means controlled by the time train for causing the last-mentioned record-producing element to shift from and to its normal position at predetermined time intervals.

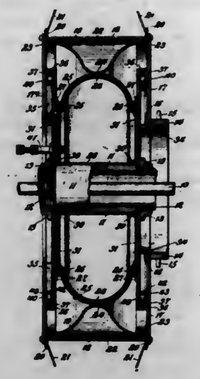
1,459,088. SOUND RECORDING AND REPRODUCING APPARATUS. JAMES KENDALL DELANO, New York, N. Y. Filed July 19, 1917. Serial No. 181,514. 4 Claims. (Cl. 274—23.)



1. The combination, with a sound box having a plurality of vibratory diaphragms and provided with a separate sound conduit leading from each of said diaphragms, of a tone arm embodying separate sound conduits constituting continuations of the sound box conduits, an amplifying horn also embodying separate sound conduits, and a swivel coupling between said tone arm and said horn, said coupling being arranged to permit movement of the tone arm while holding the tone arm conduits and horn conduits in proper respective registry.

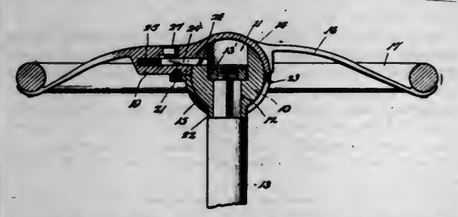
1,459,089. RESILIENT WHEEL. PAUL DE PFYFFER, Kelowna, British Columbia, Canada. Filed June 25, 1920. Serial No. 391,088. 14 Claims. (Cl. 152—41.)

1. A resilient wheel including an axle supported sleeve, a pair of inner disks mounted on said sleeve, a pair of outer disks secured together and movable relatively to the inner disks, a casing secured to the outer disks and having an inwardly projecting convex part throughout its entire circumference, a resilient cushion mounted on said sleeve between the inner disks and including a mantle



bearing against the convex part of said casing, the entire resilient action of the wheel being derived from the resilient cushion upon the sleeve.

1,459,090. STEERING WHEEL. CHARLES ARTHUR DONALDSON, San Antonio, Tex. Filed Apr. 18, 1922. Serial No. 554,993. 2 Claims. (Cl. 74—33.)



1. In a steering wheel, the combination of a spherically shaped head adapted to be secured upon a steering post, a socket rotatably fitting the head and formed of an upper section and a mating lower hemispherical section slotted to accommodate the steering post whereby the socket may be rocked upon the head, spokes radiating from the upper section and formed at their inner ends with bosses reinforcing the margin of such section, a rim carried by the spokes, radial ears formed on the margin of the lower section reinforcing such section and mating with said bosses, and fastening devices extending through said ears to engage the bosses detachably connecting the sections.

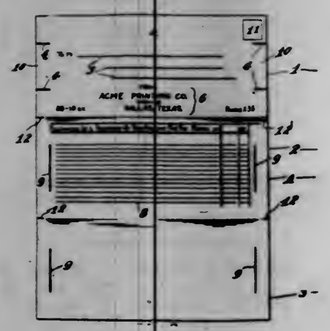
1,459,091. CHAIN-LINK SHOE. JOHN J. DOUGHERTY, Scranton, Pa., assignor of one-half to William P. Boland, Scranton, Pa. Filed Feb. 8, 1922. Serial No. 534,952. 1 Claim. (Cl. 152—14.)



As an article of manufacture a chain link shoe comprising a body portion curved in cross section, to constitute a concave housing for an anti-skid chain between

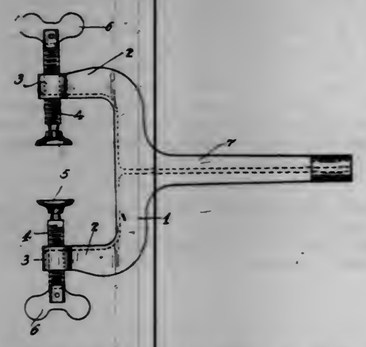
the road engaging surface of the shoe and the road; said body portion being provided at each opposite end with an opening adapted to encircle a cross chain and permit it to freely pass through the opening; said body portion being slightly bowed on its tread engaging surface between the openings; and ring members operatively associable with the cross chain and shoe to maintain the shoe in predetermined position on the cross chain.

1,459,092. ENVELOPE FOLDER. JAMES HOWARD ETHERIDGE, Dallas, Tex., assignor to Etheridge Printing Company, Dallas, Tex., a Copartnership composed of Pat Etheridge, J. H. Etheridge, T. J. Minehan, and Leon J. Clockman. Filed Apr. 22, 1922. Serial No. 556,017. 4 Claims. (Cl. 229—92.5.)



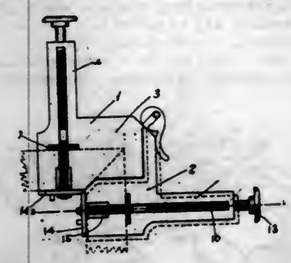
1. An envelope folder adapted to be folded transversely, having two spaced slots extending inwardly from the end edges of one part to determine oppositely disposed marginal tabs on that parts, and having tab receiving slots located parallel with the edges of the other folded parts, said tab receiving slots of one folded part being adapted to overlie those of the others and to receive the tabs to interlock said parts in their folded relation.

1,459,093. CLAMP. ELSAMUR S. FRENCH, Denver, Colo. Filed Aug. 23, 1921. Serial No. 494,659. 2 Claims. (Cl. 144—297.)



1. The combination of three screws having their axes in a common plane, a frame for supporting said screws comprising two arms of a jaw, an arm extending obliquely to said arms, and an extension at the terminal of the last-named arm disposed obliquely with respect to the arms of the jaw, said extension and the extremities of the jaw arms having screw-threaded sockets for receiving said screws.

1,459,094. CLAMP. ELSAMUR S. FRENCH, Denver, Colo. Filed Jan. 28, 1922. Serial No. 532,458. 6 Claims. (Cl. 144—293.)



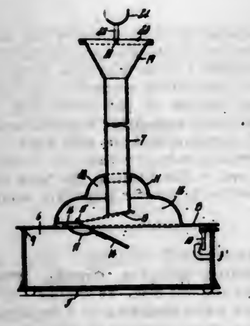
1. A device of the class described including two clamping members disposed at an angle to each other, means for causing said clamps to approach each other or separate along a path of movement oblique to said clamps, said means including a link connected with one of said clamps, a pivoted member connected to the other of said clamps and having pivotal connection with said link at one end and means connected to the other end of said pivoted member for imparting movement thereto, as and for the purpose set forth.

1,459,095. WINDOWPANE-FASTENING STRIP. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1922. Serial No. 580,653. 6 Claims. (Cl. 20—56.4.)



1. A window-pane retaining strip composed of a cellular, hardened, plastic material adapted to be softened by heat to permit the bending of the strip.

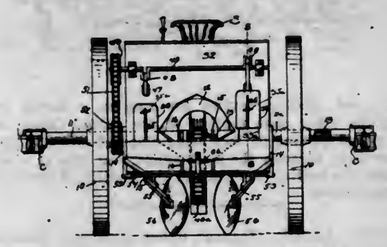
1,459,096. ASH RECEIVER. JAMES W. GIBBONS, Boston, Mass. Filed Mar. 29, 1921. Serial No. 456,715. 4 Claims. (Cl. 131—51.)



3. An ash receiver comprising a base constituting a container, a cover hinged upon said base and provided

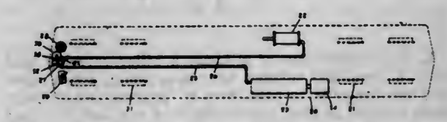
with a raised central portion forming a recess in the under side thereof, means to lock said cover to said base, a tubular column mounted upon the raised portion of said cover and projecting into the recess upon the interior thereof to form a pocket therearound between the lower end thereof and the under surface of said cover, a gate pivotally mounted upon said cover adjacent to the lower end of said column and adapted to close the lower extremity thereof, a conical extension located at the upper extremity of said column, and constituting an inlet to the interior thereof and a rod extending across the upper extremity of said conical extension, the opposite end portions thereof being bent upwardly and constituting supports for a cigar rest and a match box or similar smoking accessories.

1,459,097. PLANTER. MORTEN FREDRICK HANSEN, New Auburn, Wis. Filed Apr. 20, 1921. Serial No. 463,084. 1 Claim. (Cl. 111—43.)



In a check row planter, the combination with a main frame carrying furrow opening and closing members, of a main axle comprising a pair of axially aligned tubular sections having their adjacent ends spaced, a checker shaft rotatably mounted in said tubular sections, means for actuating the checker shaft, a sprocket wheel rotatably mounted upon said checker shaft, a pair of idler sprockets mounted on the main frame, a seed dispensing belt trained about the idler sprockets and about the sprocket wheel, means for intermittently connecting said first mentioned sprocket to the checker shaft, whereby said belt delivers a charge of seed upon each actuation of said sprocket wheel, and means for raising and lowering the furrow opening and closing members.

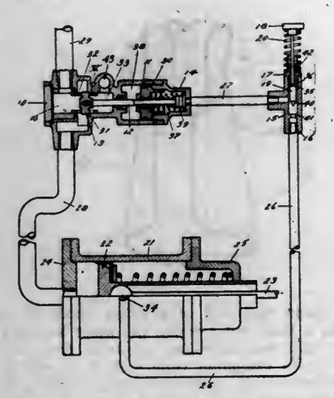
1,459,098. AUTOMATIC SAFETY CONTROL FOR AIR-BRAKE SYSTEMS. LUI F. HELLMANN and WILLIAM W. BAXTER, Indianapolis, Ind., assignors to Air Brake Safety Appliance Company, Indianapolis, Ind., a Corporation. Filed May 10, 1920. Serial No. 380,234. 49 Claims. (Cl. 303—63.)



1. A power operated vehicle having a power circuit, fluid-pressure-controlled means for breaking the circuit, manually-operated means of said fluid-pressure-controlled means for restoring said circuit, a device adapted to prevent operation of said manually operated means, and a seal for said device substantially as set forth.

2. A power operated vehicle having a power circuit, fluid-pressure-controlled means for breaking the circuit, manually-operated means of said fluid-pressure-controlled means for restoring said circuit, and means to lock said manually operated means in place, substantially as set forth.

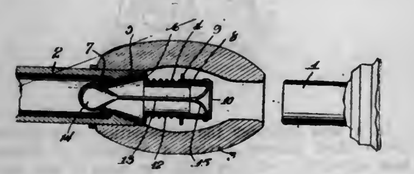
1,459,099. AUTOMATIC BRAKE LOCK. LUI F. HELLMANN and WILLIAM W. BAXTER, Indianapolis, Ind. Filed Jan. 31, 1921. Serial No. 441,392. 30 Claims. (Cl. 303—84.)



1. In a fluid pressure brake mechanism comprising braking means and means whereby the operator may control the same, the combination of means for applying the brakes and means to prevent release of the brakes in case of excessive wear of the brake-applying devices, substantially as set forth.

21. In a brake mechanism, embodying an operator's valve, an auxiliary reservoir and a fluid operated brake, a brake cylinder, means for transmitting fluid pressure from the operator's valve and the auxiliary reservoir respectively to the brake cylinder, an automatic control valve, means normally holding the same in position to close the second transmitting means, a conduit from the brake cylinder to the automatic control valve whereby fluid pressure is admitted to the automatic control valve to close the first pressure transmitting means and open the second whenever the travel of the brake piston exceeds a predetermined limit thereby holding the brakes in applied position, and means to release the brakes comprising a valve adapted to close said conduit and open a passage from the automatic control valve to the atmosphere to relieve said pressure, substantially as set forth.

1,459,100. SAFETY GAS HOSE. FREDRICK G. HENNING, Brooklyn, N. Y. Filed Dec. 7, 1920. Serial No. 428,959. 3 Claims. (Cl. 284—13.)



1. In combination with a gas fixture and a supply pipe therefor, and a sleeve connecting the supply pipe with the said fixture, of a valve member including a centrally located tube mounted in the sleeve and provided with a frusto-conical end portion having its restricted end open, a sliding cap mounted on the opposite end of the tube, means to normally urge the sliding cap outwardly from the frusto-conical end, and a valve connected to the said cap and operable in the restricted end of the tube to be opened and closed as the sleeve is attached and detached from the fixture.

1,459,101. APRON. ANNIE M. HIFNER, Lexington, Ky., assignor to Nancy T. Hifner, Lexington, Ky. Filed Apr. 26, 1921. Serial No. 464,560. 2 Claims. (Cl. 2—54.)



1. An apron composed of a single blank of material comprising a skirt and a waist, the waist having a front narrower than and extending upwardly from the skirt, shoulder straps extending from said front and a bread back composed of two halves extending downwardly from the shoulder straps and secured together at their adjacent edges along the central vertical line of the back, the upper corner portions of the skirt extending from the front of the waist to extend around the hips, and said upper corner portions of the strip and lower corner portions of the back having means for detachably fastening them together.

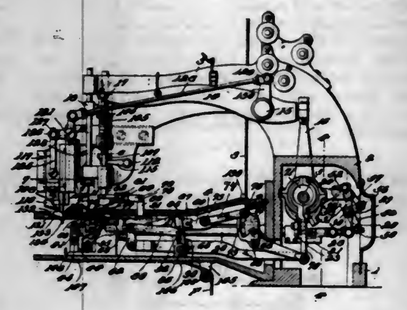
1,459,102. LOAD INDICATOR. HOWARD R. HUGHES, Houston, Tex. Filed July 29, 1921. Serial No. 488,465. 1 Claim. (Cl. 265—47.)



In a load indicator the combination of a derrick, a crown block thereon having a plurality of sheaves, a load supporting cable passing over each of said sheaves, one only of said sheaves being mounted on a shaft supported by a pressure transmitting means, and a weight indicator connected with said transmitting means adjacent the lower end of said derrick.

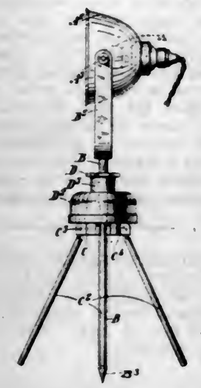
1,459,103. SEWING MACHINE. ROBERT R. HUGHES, Jr., Utica, N. Y., assignor to Union Special Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 17, 1919. Serial No. 331,312. 23 Claims. (Cl. 112—2.)

17. The combination with a sewing machine having a suspended work supporting arm for stitching tubular articles, a feeding mechanism for feeding the material lengthwise of said arm, cutting devices located in advance of the stitching mechanism for slitting the fabric, a folding device between the cutting devices and the needles of the stitching mechanism for directing a stay strip about one of the edge portions of the slitted



fabric, and guiding devices for guiding a facing strip along the other edge portion of the slitted fabric, said last named guiding devices being disposed so as to direct the strip up through the work supporting arm at a point between the cutting devices and the needles of the stitching mechanism.

1,459,104. LAMP. HERBERT STONE JOHNSON, Nuneaton, England. Filed Aug. 24, 1922. Serial No. 584,134. 4 Claims. (Cl. 240—7.)

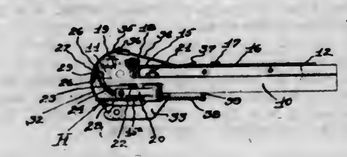


1. The combination of a lamp, a pillar carrying said lamp, a head, legs pivoted thereto, a spring acting upon said legs normally to hold them in the extended position, stops adapted to limit the extension of said legs, a socket upon said head through which said pillar extends and is endwise free, and a clamping device for securing said pillar at a desired position in said socket, substantially as set forth.

1,459,105. GAUGE FOR PRINTING PRESSES. ABEL KLUGE and ENEVAL KLUGE, St. Paul, Minn., assignors, by mesne assignments, to Brandtjen & Kluge, Incorporated, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 11, 1920. Serial No. 423,448. 7 Claims. (Cl. 101—414.)

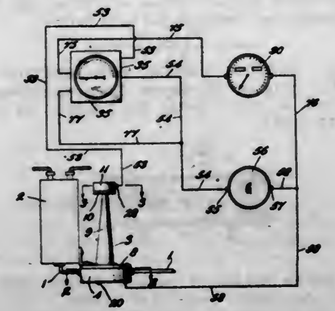
1. The combination with a platen and gripper-bar of a printing press of a finger adapted to engage and hold

the lower edge of a sheet against the platen and a movable support for said finger yieldingly mounted on the platen,



said support being engaged with and actuated by the gripper-bar to slide the finger downward out of sheet engaging position.

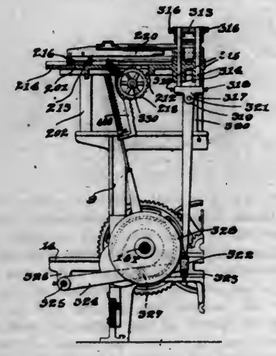
1,459,106. GASOLINE-CONSUMPTION INDICATOR FOR MOTOR VEHICLES. HUGH J. KNERR, U. S. Army. Filed June 24, 1921. Serial No. 480,170. 3 Claims. (Cl. 235—1.)



1. In a device of the class described, the combination of a fluid measuring device provided with an electrical contact adapted to be closed upon the passage of each unit of fluid; means for measuring distance traveled comprising an indicator; a ratchet wheel provided with a pin coacting with said indicator; electrically actuated connections comprising an electromagnet and a pawl actuated by said magnet between said distance measuring means and said wheel adapted to turn said wheel and pin a predetermined distance for each mile traveled; a spring associated with said wheel for returning said wheel and pin to their initial or zero positions upon the closing of said contact; and additional electrically actuated connections comprising a solenoid and a bell crank actuated by said solenoid controlled by said contact governing the return of said wheel and pin to said zero positions.

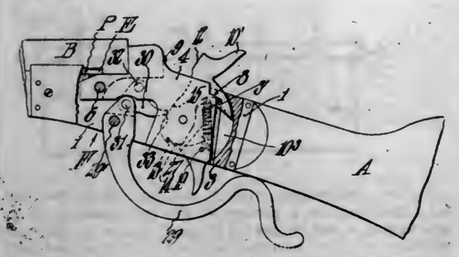
1,459,107. BINDER-BLANK-SHAPING MECHANISM. ALOYSIUS JOSEPH KUSTERER, Richmond, Va., assignor to Consolidated Paper and Box Manufacturing Company, Richmond, Va., a Corporation of Virginia. Original application filed May 29, 1920, Serial No. 385,361. Divided and this application filed Aug. 10, 1921. Serial No. 491,223. 6 Claims. (Cl. 153—21.)

1. In a tray forming mechanism, a guideway having a flat guiding surface and a grooved surface arranged in alinement, a matrix between said surfaces depressed below said flat surface, a die cooperative with the matrix for bending the blanks, the groove in the guideway registering with the matrix, a reciprocating finger having an end adapted to enter the matrix and a shoulder



projecting above the flat surface for engaging the flat blanks whereby a flat blank will be advanced simultaneously with the removal of a blank from the matrix.

1,459,108. FIREARM. GEORGE S. LEWIS, Chicopee Falls, Mass., assignor to Page-Lewis Arms Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 30, 1921. Serial No. 465,633. 5 Claims. (Cl. 42—34.)



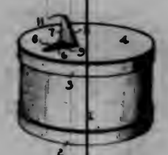
1. In a firearm in combination, a hammer and a trigger arranged for interengagement in cocked positions, means interposed between and wholly supported by the hammer and trigger for actuating the said hammer and trigger and to limit the cocking movement of said hammer.

1,459,109. ROLLER DISTRIBUTOR. JESÚS M. LÓPEZ, San Antonio, Tex. Filed July 29, 1921. Serial No. 488,356. 2 Claims. (Cl. 200—26.)



1. In a device of the class described, a carrier; an annular member disposed about the carrier and pivoted thereto; and compression and retractile springs operating simultaneously to hold the annular member yieldingly in eccentric relation to the carrier.

1,459,110. PAPER CARTON. JOSEPH LOUFEK, Keokuk, Iowa, assignor to Iowa Can Company, Keokuk, Iowa, a Corporation of Iowa. Filed Dec. 8, 1921. Serial No. 520,999. 1 Claim. (Cl. 229—7.)



A container having a wall, provided with a restricted opening, a hinged closure or flap for said opening cut from the material of said wall and provided with an uncut portion continuous with the wall and functioning as a hinged mounting for the closure, and a seal cemented to the closure and to the inner surface of the wall of the container for closing the opening and maintaining the closure in the plane of the wall and forming when cut along lines defined by the periphery of the closure a reinforcement for the closure and the hinged mounting, said seal, wall and closure, cooperating to maintain the closure in position within the confines of the opening against internal pressure.

1,459,111. COMBINED SHIELD AND PACKAGE CARRIER. JESSE E. MCGEE, Guntown, Miss. Filed May 31, 1922. Serial No. 564,751. 3 Claims. (Cl. 296—99.)



1. The combination with a pair of clamps adapted for attachment to a portion of the top structure of an automobile, a rod supported by said clamps, a shield, a plurality of links securing said shield to said rod, and a clamp intermediate said links adjustably securing said shield to said rod.

1,459,112. INVALID BED. CHARLES F. MEHL, Euclid, Ohio. Filed Feb. 23, 1922. Serial No. 538,670. 2 Claims. (Cl. 5—88.)



1. In an invalid bed, the combination with the rigid framework consisting of the head and foot thereof and side rails; of a series of transverse patient supporting straps secured at one end to one of the side rails; a shaft extending alongside the other of said side rails; a series of drums upon which the opposite ends of said straps are wound, rotatably mounted upon said shaft and arranged in pairs; a pawl and ratchet for locking each of said drums against unwinding movement; and an operating lever carried by said shaft between drums of each pair, said operating levers being engageable with either drum of the pair between which it is positioned to actuate the same.

1,459,113. BELT. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,767. 6 Claims. (Cl. 241—8.)



1. In combination with a belt buckle having an anchoring means and a clamping means thereon at a point removed from said anchoring means, a belt having a main portion and a portion turned inwardly on the inner face of the main portion about said anchoring means, said inwardly turned portion being free from the main portion except at its turned end and carrying a loop extending about the main portion, and reinforcing means on the inwardly turned portion between said looop and the anchoring means and free from the main portion.

1,459,114. TESTING DEVICE FOR IGNITION SYSTEMS. CHARLES WOODWARD MORGAN, Chicago, Ill. Filed Oct. 9, 1919. Serial No. 329,502. 12 Claims. (Cl. 175—183.)



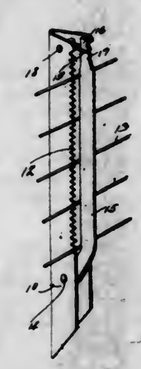
1. A testing device for ignition systems comprising a testing chamber to receive and enclose a spark plug in its entirety, means for admitting gas under pressure to said chamber while said spark plug is therein, a circuit in which said spark plug is included, and a transparent window in a wall of said chamber to permit a view of the interior of the chamber.

1,459,115. CLOTHESLINE SUPPORT. JULIUS PEDERSEN, Bridgeport, Conn. Filed May 5, 1921. Serial No. 467,115. 2 Claims. (Cl. 254—194.)



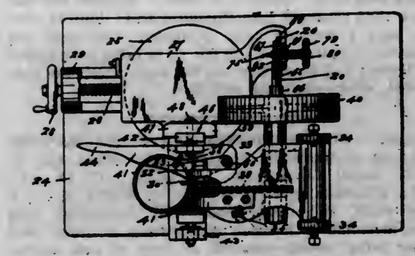
1. A clothes line support consisting of a single length of strip metal bent to provide a link and a pulley mounted therein adapted to receive one reach of a clothes line inserted in the support, said link constituting a pulley housing, a lip end extending downwardly below said housing, a pocket at the opposite end of said link adapted to receive the other reach of the clothes line, and a yieldable end portion normally engaging beneath said lip end and adapted to be pressed inwardly and away from said lip end by a clothes line inserted beneath the same, said lip end adapted to support said yieldable end against downwardly directed stresses exerted by the reach of the clothes line disposed in said pocket.

1,459,116. METAL FENCEPOST. PETER J. SCHMALZ, Howard, Mont. Filed Dec. 16, 1919. Serial No. 345,305. 1 Claim. (Cl. 256—52.)



The combination with an open-sided metal fence post having a loop pivotally mounted within the upper end thereof, of a wire holding lever comprising a strip of longitudinally folded metal having its lower end formed with legs offset in a common direction pivotally supported within the lower end of the post, the upper end of the lever being formed with its folded portions lying in contact with each other and having the outer edge portion inclined toward the post and formed with notches, said loop being arranged to embrace said notched end of the lever, and engaging its bight portion with said notches.

1,459,117. MACHINE FOR MAKING PISTON RINGS. HENRY R. SEIFERT, East Ellsworth, Wis. Filed July 23, 1921. Serial No. 487,041. 18 Claims. (Cl. 90—21.)



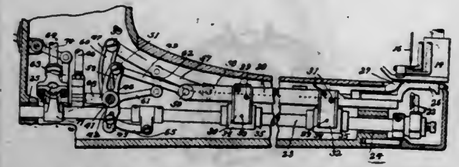
1. A machine for forming piston rings comprising a tool having a peripheral cutting surface, and a face plate for holding a piston ring with one of its ends substantially tangential to the axis of the tool.

1,459,118. FIGURE TOY. ERNEST SINCLAIR SHOWERS, Michigamme, Mich. Filed Feb. 20, 1922. Serial No. 537,962. 7 Claims. (Cl. 208—42.)



1. In combination, a frame, a supporting wheel therefor, a body, a link connecting the body and the frame to permit the body to have movement relative to the frame, a driving connection between the body and the wheel, a link pivotally connected with the body, another link pivotally connected with the frame, means for pivotally connecting the last named links, and a driving connection between the last named links and the wheel.

1,459,119. FEEDING MECHANISM FOR SEWING MACHINES. SAMUEL GEORGE TATE, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1918. Serial No. 232,899. 12 Claims. (Cl. 112—209.)

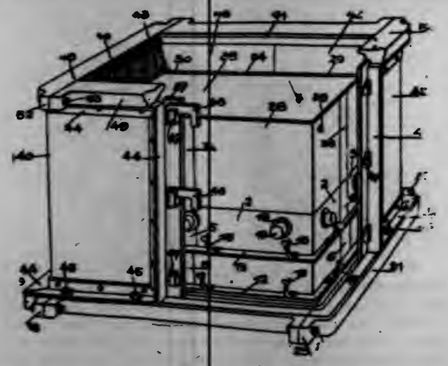


12. A sewing machine including in combination a standard, an arm projecting therefrom, a depending support carried by said arm, a work supporting arm carried by the lower end of said depending support, said depending support being inclined to the vertical, a feed dog at the free end of the work supporting arm, a feed bar carrying said feed dog, a rocking frame at the lower end of said depending support and connections therefrom to the feed bar for moving the same back and forth, an actuating shaft in said arm projecting from the standard, an eccentric thereon, a horizontal lever disposed intermediate the ends of said depending support, said horizontal lever having a vertically arranged link connection with the rocking frame for oscillating the same, means for oscillating the lever from said eccentric, a second eccentric on the actuating shaft, an oscillating shaft extending lengthwise of the work supporting arm, and an eccentric strap co-operating with the second eccentric and connected to said shaft in the work supporting arm for oscillating the same, said oscillating shaft having spaced eccentrics and devices whereby said spaced eccentrics operate to bodily raise and lower the feed bar.

1,459,120. MOLD FOR MANUFACTURING MONEY CHESTS AND THE LIKE. WERNER KONRAD THÖRIG, Zurich, Switzerland. Filed July 22, 1921. Serial No. 486,898. 7 Claims. (Cl. 25—130.)

1. A mold for manufacturing concrete money-chests and the like, comprising a rigid machined cast-iron frame forming the lower portion of the mold and constructed to accurately form a door opening in the molded article, bolts for molding the locking-bolt holes in the concrete detachably supported by said frame, and means on said

frame for positioning and holding thereon metal fittings for the door opening adapted to be anchored to the



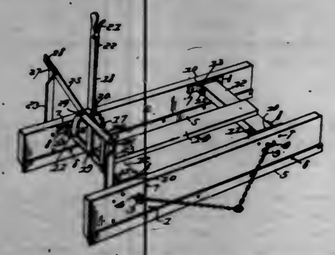
concrete during the molding operation, substantially as described.

1,459,121. STOPPER FOR CLOSING THE CONTAINERS OF ELECTRIC ACCUMULATORS. FERNAND VAN DE WIEL, Paris, France, assignor to Compagnie Generale d'Electricite, Paris, France. Filed Oct. 25, 1920, Serial No. 419,531. Renewed Mar. 30, 1923. 1 Claim. (Cl. 204—53.)



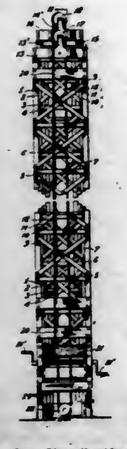
A stopper for an electric accumulator comprising a body having gas inlet ports, a separate liquid outlet port at the bottom of the body arranged at a lower level than the gas inlet ports, gas outlet ports at the upper part of the body, a liquid inlet port located at a lower level than said outlet ports, and baffles interposed between the gas inlet ports and also interposed between the gas and liquid outlet ports arranged to cause the outgoing gases to traverse a circuitous path, said baffle being also arranged to intercept the direct flow of gas from the liquid outlet port to the gas outlet port.

1,459,122. ROAD DRAG. WILLIAM HANDLEY VAN VICKLE, Mound City, Mo., assignor of one-half to Wilson Joseph Aesdale, Mound City, Mo. Filed Mar. 27, 1922. Serial No. 547,240. 1 Claim. (Cl. 37—175.)



In a road drag comprising a pair of scraping blades disposed in spaced parallel relation to each other, spaced brackets carried by the confronting faces of each blade, a beam extending between said blades and disposed within the brackets whereby said blades may move relative to the beams, a lever pivoted to one of said beams, an arm projecting from each blade, links projecting from each arm and pivotally connected at their ends to the lever, one of said links being adjustable, said links being adapted to adjust themselves according to the movement of the lever and the position of the arms of the blades.

1,459,123. HOIST TOWER FOR BUILDING OPERATIONS. ADOLPH FRED WALTHER, Cleveland, Ohio, assignor to Louis H. Heister, Jr., Cleveland, Ohio. Filed May 7, 1921. Serial No. 467,742, 9 Claims. (Cl. 214—95.)



1. A hoist tower for distributing material in building operations, comprising the combination of a plurality of telescopic sections; means for actuating said sections to assume their extended position; detachable means for rigidly securing said sections in such extended position; a guideway secured to the exterior of said sections when extended; an elevator car adapted to travel upon said guideway; and means for operating said elevator car on said guideway.

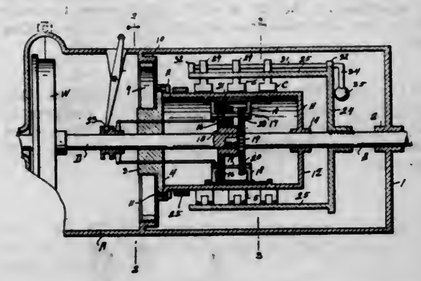
1,459,124. CONTINUOUS PROCESS OF MAKING SUPERPHOSPHATE. HYLEMAN ALISON WEBSTER, Columbia, Tenn. Filed May 20, 1922. Serial No. 562,558. 6 Claims. (Cl. 71—7.)

1. The process of making superphosphate from phosphorite rock which consists in powdering said rock; suspending said rock powder in water; treating the suspension thus produced with sulphuric acid; diluting with water said suspension after treatment with acid and raising the temperature above 60° C. to bring on a hydrolytic action; and separating out the super-phosphate thus produced, substantially as described.

1,459,125. POWER-TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Aug. 7, 1920. Serial No. 401,893. 13 Claims. (Cl. 74—34.)

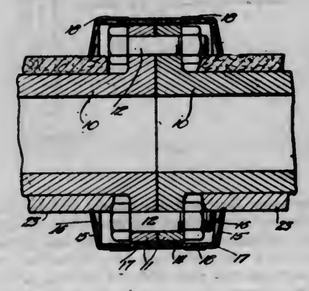
1. In a transmission mechanism, a driving shaft, a driven shaft, and means operatively connecting said shafts including a member constituting a drum, said member being loosely mounted on both of said shafts, a gear assembly carried by the member and co-acting with said shafts, a plurality of clutching units carried by one of the shafts and coacting with the member, and means operable under the influence of centrifugal force for bringing the clutching units into engagement with the member, each of said clutching units being in itself

insufficient to materially hold the member for rotation with the shafts, the centrifugally operated means for bringing the clutching units into engagement with the



member also permiting relative slip between the member and the clutching units to effect a variable speed to the shaft carrying the clutching units.

1,459,126. PIPE-FLANGE PROTECTOR. EMANUEL WIDIGER, Hammond, Ind. Filed Sept. 8, 1922. Serial No. 586,879. 3 Claims. (Cl. 154—45.)



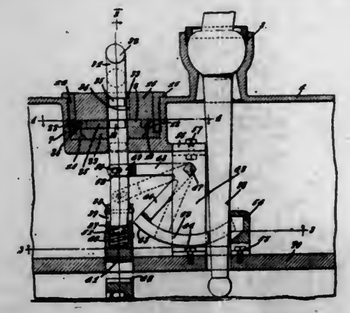
1. A device for insulating and protecting pipe flanges comprising a pair of semi-annular halves of channel cross section, each of said halves comprising two principal elements, namely, a lining of sheet insulation having an arcuate web and inwardly bent flanges at its arcuate edges, and a sheet metal jacket lying around and against said lining, said jacket having web and flange portions corresponding to those of the lining, the edges of the flanges of the said metal jacket being rebent inwardly over the edges of the said flanges of the lining, each lining flange and its associated jacket flange being crimped together by substantially radial corrugations.

1,459,127. METHOD OF DETERMINING THE COMPOSITION OF GASES. LEO DAFT WILLIAMS and ALFRED WILLIAMS, London, England. Filed Sept. 28, 1920. Serial No. 413,322. 3 Claims. (Cl. 23—3.)

1. Method of estimating the content of a gas by measuring a permanent stoichiometric alteration of the $\frac{PV}{T}$ value of a compressed sample in a sealed chamber, the initial gas pressure being such that the forces to be measured are appreciably increased and errors due to non-saturation with moisture are rendered negligible.

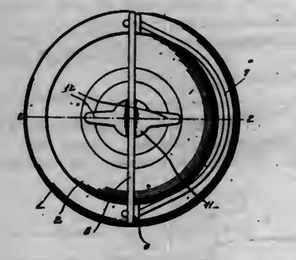
1,459,128. LOCK. THOMAS A. WISEMAN, Tullahoma, Tenn. Filed Sept. 9, 1921. Serial No. 499,377. 2 Claims. (Cl. 70—126.)

2. In a vehicle lock, the combination with a movable member, of a reciprocatory bolt under the control of an operator, a Z-shaped latch pivoted between said bolt and movable member with one arm engaged with the bolt, and the other straddling the movable member, a keeper to



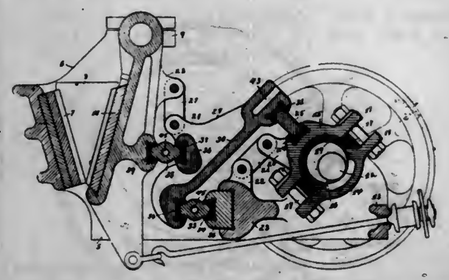
receive said last mentioned arm whereby the inward movement of the bolt will operate the latch to lock said movable member.

1,459,129. ATTACHMENT FOR JARS. ALFRED E. WITTIG, Rochester, N. Y. Filed Oct. 30, 1922. Serial No. 597,739. 4 Claims. (Cl. 215—87.)



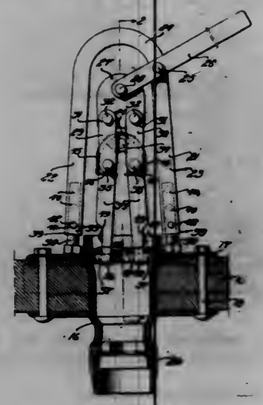
1. A jar attachment comprising a central portion provided with a transversely extending bail-receiving recess and two arms extending from said central portion and having means for interlocking with the cam portions of a jar closure.

1,459,130. ROCK CRUSHER. WILLIAM R. YOUNG, Brooklyn, N. Y., assignor to himself and Stanley K. Greene, Brooklyn, N. Y. Filed Apr. 7, 1922. Serial No. 550,346. 14 Claims. (Cl. 83—53.)



1. A swing jaw lever-actuating means, and an interposed lever freely suspended intermediate its ends and supported independently of and actuated through said lever-actuating means to oscillate the jaw.

1,459,131. DEVICE FOR PULLING BEARING CUPS, SLEEVES, AND THE LIKE. CLAUDE H. ALEXANDER, Oxford, Pa. Filed Jan. 21, 1922. Serial No. 530,789. 7 Claims. (Cl. 29—88.2.)



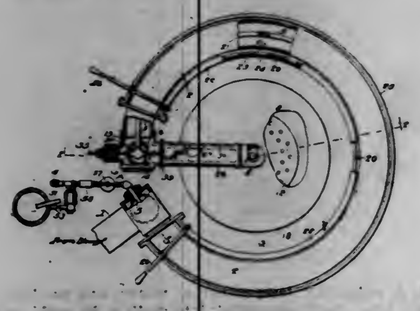
1. A pulling device including means providing leg portions spaced apart; pulling members in line with the space between said leg portions; and a resilient member having a portion engaging each of said pulling members for automatically moving the same apart; and means for moving said pulling members in a direction transversely to the movement imparted by said resilient means; substantially as described.

1,459,132. CRIMPER. ALICE, PRINCESS ANDREW OF GREECE, St. Cloud, France. Filed Mar. 13, 1923. Serial No. 624,793. 5 Claims. (Cl. 132—32.)



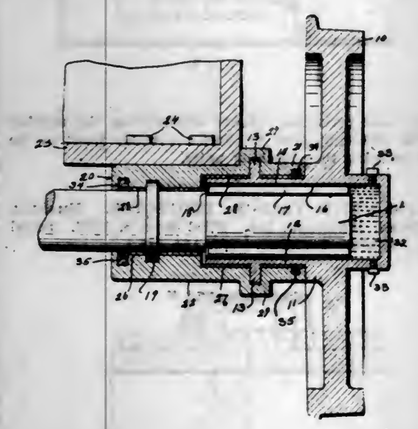
1. In a hair crimper, means to hold the hair at points in different parallel planes, devices to movably connect said means and permit said means to be moved into substantially the same plane whereby the hair between the holding points is rotated and the holding points relatively displaced.

1,459,133. OIL BURNER. ADOLPHUS M. ALLEN, Minneapolis, Minn. Filed Oct. 8, 1921. Serial No. 506,436. 15 Claims. (Cl. 158—28.)



1. The combination of a mixing device for oil and air with means producing an additional air discharge adjacent said mixing device but directed away from it toward a combustion zone, and a supply conduit for air extending to the mixing device and adjacent the combustion zone for preheating the air, means for controlling the quantity of heat absorbed by the air in said conduit from the combustion zone and means for supplying oil to the mixing device.

1,459,134. MOUNTING FOR MINE-CAR WHEELS. ALFRED R. ANDERSEN, Rock Springs, Wyo., assignor of one-half to Joe F. Dominiski, Rock Springs, Wyo. Filed Mar. 14, 1923. Serial No. 625,114. 3 Claims. (Cl. 295—45.)



1. In a mounting for mine car wheels and in combination, an extension formed upon the inner face of a hub of the wheel and having a bore receiving the axle, a bearing rotatably receiving the axle and the extension, and an engagement between the axle and the bearing preventing longitudinal movement of the axle in the bearing in either direction.

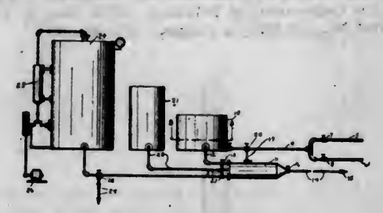
1,459,135. YARN CLEANER. ASA ASHWORTH, Salamanca, N. Y. Filed Aug. 6, 1921. Serial No. 490,251. 8 Claims. (Cl. 28—70.)



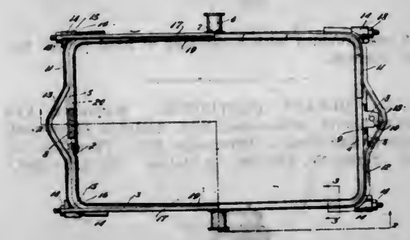
1. In combination with a rotatable member having a series of thread eyes and an inlet for each, a vitreous lining for each eye, and a rotatable lock having a thread passage movable onto and out of register with the inlets.

1,459,136. WASHING APPARATUS. CHARLES FEDELS BAMBARA, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,360. 4 Claims. (Cl. 299—84.)

1. A washing apparatus including a mixing tank, fluid supply pipes terminating in a single pipe leading to said mixing tank, an air pressure tank, an oil tank, a main mixing tank having a valve controlled discharge, pipe lines affording communication between said tanks and said main mixing tank, and means controlling the passage through said pipe lines whereby the contents of one or more of said tanks can be discharged into said main mixing tank.

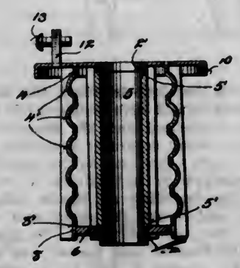


1,459,137. FOUNDRY FLASK. DONALD C. BARRICK, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 17, 1922. Serial No. 582,419. 19 Claims. (Cl. 22—96.)



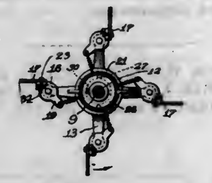
1. A foundry flask comprising a rectangular sheet metal body portion, reinforcing plates upon opposite sides of the body and tie rods connecting said reinforcing plates.

1,459,138. CHAIR IRON. HARRY W. BOLENS, Port Washington, Wis. Filed Mar. 14, 1922. Serial No. 543,626. 5 Claims. (Cl. 155—138.)



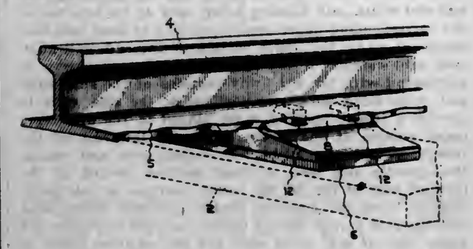
1. In a chair base hub, the combination of a spindle barrel having an annular recess adjacent its top edge, whereby a shoulder is formed on said barrel, a top plate having a central depending flange received in said recess and abutting against said shoulder, said top plate having a plurality of openings therein, a plurality of channel strips having angularly directed wings thereon and transversely extending ribs terminating in said wings, tongues on said strips secured in said openings and means at the bottom of said strips for securing said strips to said spindle barrel.

1,459,139. WEEDER. REUBEN G. BRUNER, Windsor, Ontario, Canada. Filed July 29, 1921. Serial No. 488,316. 4 Claims. (Cl. 97—213.)



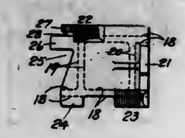
1. In a weeding machine, weeding devices, a spider supporting said weeding devices, springs connected to said weeding devices and adapted to allow said weeding devices to yield relative to said spider, and means connected to said springs and movable co-axial of said spider for placing said springs under additional tension when the weeding devices encounter deeply rooted weeds.

1,459,140. TRACK STRUCTURE. LOUIS P. CHICOINE, Vaudreuil, Quebec, Canada. Filed Jan. 9, 1922. Serial No. 528,112. 2 Claims. (Cl. 238—304.)



1. In a railway road bed the combination with a tie, a tie plate mounted in fixed position upon the tie and a rail supported upon the tie plate, the side edges of the base flanges of the rail presenting undulating surfaces and the tie plate having a corresponding undulating portions adapted to interlock with the undulating surfaces of the base flanges for the purpose of preventing longitudinal creeping of the rail, the underside of said tie plate having a recess therein and cushioning means located between the tie plate and tie and consisting of a fibre block adapted to extend into the recess.

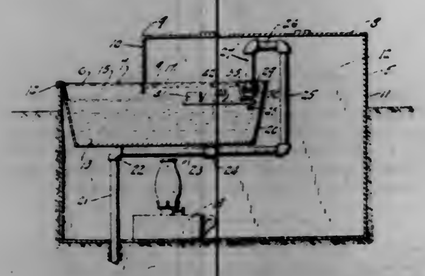
1,459,141. RAILWAY BRAKE BEAM. SETH A. CRONE, East Orange, N. J. Filed June 12, 1922. Serial No. 567,577. 5 Claims. (Cl. 188—231.)



3. In a brake-beam, a flanged compression member, a strut encompassing said member and deflected angularly adjacent to the flanges thereof to form angularly disposed parallel sides for the brake lever, and a securing plate driven between said flanges and the adjacent angular portions of the strut and having on diagonally opposite portions of one face thereof wedges, one being in

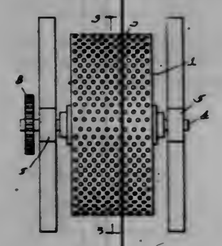
advance of the other, engaging the diagonally opposite inwardly turned portions of the strut, and said plate also having its forward edge adjacent to its forward wedge a forwardly projecting tongue to be bent over against the adjacent edge of the strut for locking said plate against accidental displacement.

1,459,142. STOCK WATERER. CALVIN L. CRUZEN and CLARENCE E. GAY, Lacey, Iowa. Filed Mar. 13, 1922. Serial No. 543,330. 1 Claim. (Cl. 119—73.)



A stock waterer comprising a housing including side and end walls, said housing being open at its top, one of the corresponding upper corner portions of each side wall being cut away, the upper portion of the end wall adjacent said corners of the side walls being cut away to correspond with the cut away portions of the side walls and cooperating with said portions of the side walls to provide a trough opening, a lid hinged to the projecting upper portion of one of the side walls inwardly of the trough opening and adapted to extend over and engage the opposite side wall, a front member carried by the forward edge of the lid, the corner portions of said front member being cut away, a trough disposed within said housing, said trough having flanges adapted to engage the upper edge of said front wall and the adjacent edges of the cut away portion of the side walls, the remaining portions of the flanges of the trough being adapted to engage flanges projecting from the inner face of the side members beneath the lid, the cut away portions of the front member being adapted to engage the flanges of the trough to assist in holding said trough within the housing.

1,459,143. TESTING COKE. M DONOVAN CURRAN, Toledo, Ohio. Filed Aug. 20, 1921. Serial No. 493,822. 9 Claims. (Cl. 73—51.)



1. The method of testing coke or like material, which consists in subjecting the same to prescribed physical strains or stresses, grading the resultant particles according to size, and substituting the weight values of such particles in the several grades in an empirical formula giving a defined physical quality of such material.

1,459,144. CUE. HARMON F. DAVENPORT, Chicago, Ill., and MICHAEL J. WHELAN, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 9, 1920. Serial No. 429,339. 4 Claims. (Cl. 46—9.)



4. A cue provided with a covering of hard rubber vulcanized thereon.

1,459,145. BREAST PROTECTOR. MADALINE VAN DEUSEN DAVIS, Milwaukee, Wis., assignor of one-half to Carrie Van Deusen, Milwaukee, Wis. Filed Jan. 17, 1922. Serial No. 529,869. 2 Claims. (Cl. 128—280.)



1. In a device of the class described, the combination of a pair of pockets formed with double fabric walls, the outer wall being rubberized and the inner wall being fleecy, said pockets being separably connected in juxtaposed relation to each other, means for supporting the same on a woman's body in position to receive the breasts, said means including an elastic band passing around the body underneath the arms, and adjustable straps passing over the shoulders, a binding extending around the edge of each pocket, and an elastic cord secured under tension to the lower edge of each pocket to gather the same.

1,459,146. FRAME. WILLIAM J. DECKER, Detroit, Mich. Filed Nov. 21, 1921. Serial No. 516,847. 1 Claim. (Cl. 20—92.)

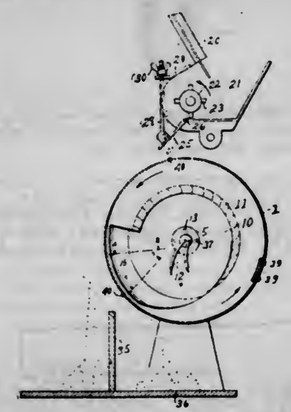
In a frame, the combination of wood side and end members having rabbets along their inner edges to receive a sheet of glass, said rabbets extending the entire length of said frame members, and a sheet metal corner member connecting the side and end members and having its ends

bent to conform to the outer surfaces of the side and end members and its middle portion of the same cross sec-



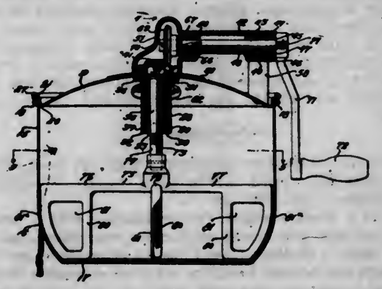
tion as its ends and curved to constitute a curved elbow, the edges of the sheet metal member being bent around the edges of the side and end members.

1,459,147. MAGNETIC SEPARATOR. ALVIN DINGS, Milwaukee, Wis., assignor to Magnetic Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 5, 1918. Serial No. 248,311. 10 Claims. (Cl. 83—71.)



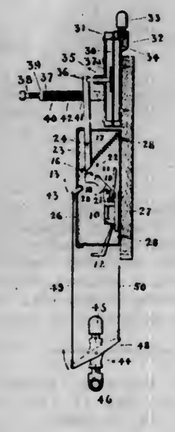
1. A magnetic separator, consisting of the combination of a revoluble drum, a magnet located therein, and having its axis substantially coinciding with the axis of the drum, and provided with a segmental pole piece disposed with its outer margin in close proximity to the interior wall of the drum on the descending side, and adjustable means for cascading material in free air along that side of the drum in the magnetic field established by said pole piece.

1,459,148. MIXING AND BEATING DEVICE. ANTHONY I. FLYNT, Philadelphia, Pa. Filed Dec. 27, 1921. Serial No. 525,060. 5 Claims. (Cl. 259—122.)



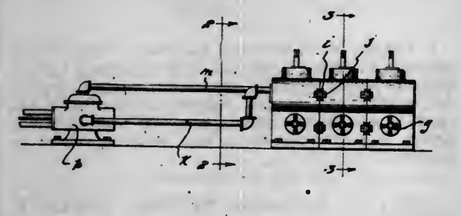
1. A device of the character described including a receptacle; a lid on the receptacle having a hole; a spindle supported by said lid; a mixer on said spindle within the receptacle; a bearing member; a shaft mounted within said bearing member, said lid having headed pins thereon, a portion of said bearing member having notches and adapted to be swung with the notches embracing said pins below their heads; and means operatively connecting said shaft with the spindle; substantially as described.

1,459,149. AUTOMATIC CUT-OFF FOR OIL BURNERS. LAURENCE E. FRENCH, Sebastopol, Calif. Filed Dec. 28, 1921. Serial No. 525,303. 12 Claims. (Cl. 158—28.)



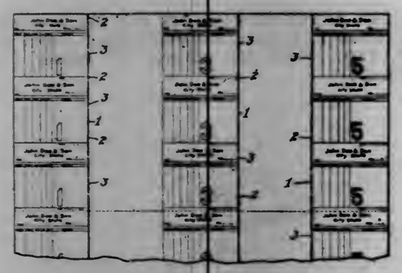
6. In combination with an apparatus for delivering fluid under pressure through a conduit, of an electric motor for driving said apparatus, an electric circuit, for said motor, a switch in said circuit, a valve in said conduit, pressure actuated means operatively connected to said apparatus and to said valve and switch and adapted to normally maintain said switch closed and said valve open, said means also adapted to release said switch to break the circuit and to close said valve upon a drop in pressure of said fluid.

1,459,150. FLUID-DISTRIBUTING MANIFOLD. AUDLEY D. GASTON, Sarnia, Ontario, Canada. Filed Dec. 9, 1921. Serial No. 521,209. 5 Claims. (Cl. 277—59.)



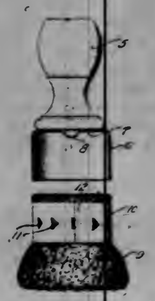
1. A fluid distributing manifold, comprising a plurality of sections having intercommunicating exhaust passage sections and intake passage sections forming common intake and exhaust passages through the manifold, each section provided with a separate distributing space having ports communicating with each exhaust passage and intake passage, and means for controlling such ports.

1,459,151. MANIFOLD PRINTED FORM. ARTHUR S. GILMAN, SAMUEL C. BENNETT and FRED W. KIESLING, Cleveland, Ohio, assignors to The A. S. Gilman Printing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 11, 1920. Serial No. 380,446. 3 Claims. (Cl. 282—27.)



1. A multiple form sheet comprising a multiplicity of forms, said forms being of varying character transversely but of recurrent character longitudinally, the recurrent longitudinal forms being separated from each other laterally by means of lines of perforations and slits, each line consisting of a plurality of long slits, the material between the slits being perforated by groups of short perforations.

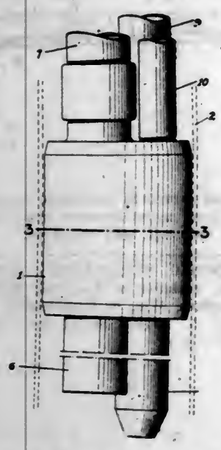
1,459,152. SCOURING DEVICE. LILLIAN GRAHAM, Philadelphia, Pa. Filed May 13, 1922. Serial No. 560,676. 2 Claims. (Cl. 15—209.)



1. A device of the character described including means providing a socket; a yieldable scouring element; and a resilient member disposed about said scouring element, the scouring element and resilient member being disposed in said socket when contracted, and expanding therein to frictionally secure said scouring element in position.

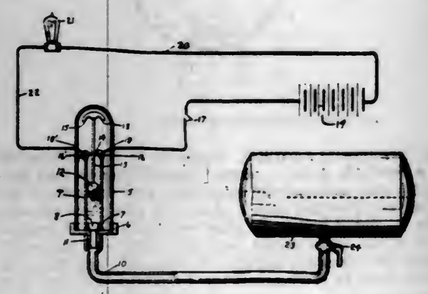
1,459,153. HYDRAULIC EJECTOR. ABRAHAM R. GRIESEMER, San Francisco, Calif. Filed Aug. 9, 1922. Serial No. 580,655. 2 Claims. (Cl. 37—62.)

1. A hydraulic ejector comprising a body adapted to fit in a casing, a pair of vertical and spaced bores through the body, suction and pressure nozzles attached to and depending from the body in alinement with said bores, suction and pressure pipes attached to and projecting upwardly from the body in alinement with the respective bores, a third vertical bore in the body closed at the lower end, a jet from said third bore projecting into the



bore to which the suction pipe is connected, and a pressure pipe attached to and projecting upwardly from the body in alinement with said third bore.

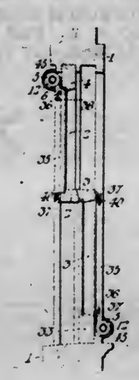
1,459,154. ELECTRIC SIGNAL FOR GASOLINE TANKS. LEOPOLT GRUZLER, Chicago, Ill. Filed Mar. 26, 1921. Serial No. 455,768. 2 Claims. (Cl. 200—84.)



1. In an electric indicator for liquid fuel tanks, a casing, a base member embracing and supporting said casing, a tube mounted in said casing upon a neck in said base member; a conduit connecting said tube through said neck with the interior of the fuel tank, a float in said tube, electric terminals mounted on said tube, insulation in opposite parts of said casing, an electric wire connected with each of said terminals and extending through said insulation, and an electric switch mounted on and actuated by said float for engaging said terminals and closing the circuit of said electric indicator.

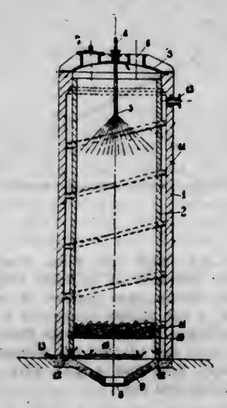
1,459,155. WINDOW SCREEN. JOHN P. IOOR, Philadelphia, Pa. Filed Jan. 8, 1921. Serial No. 435,966. 8 Claims. (Cl. 156—39.)

2. In a window screen, the combination with a flexible web; of adhesive tapes, reinforcing respective edges of said web; a hollow roller; means connecting one end of said web to said roller; a trunnion extending axially in rigid relation with said roller at one end thereof; a cap at the other end of said roller, having a clutch hooked projection, extending circumferentially in the direction in which said web is adapted to be wound upon said roller, and having an axial bearing; a spring shaft, extending in the hollow of said roller, and journaled at its outer end in said bearing; a clutch collar rigidly mounted on said spring shaft and having a clutch hooked projection extending circumferentially in the direction in which said web is arranged to be unwound from said roller; means at the outer end of said spring shaft, arranged to prevent rotation thereof; a spiral spring in



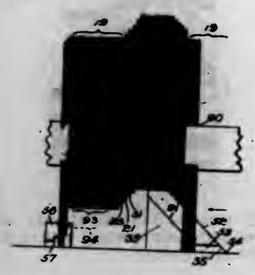
the hollow of said roller, having one end engaging said shaft and the other end engaging said roller, and adapted to wind said web and also adapted to thrust said shaft axially outward with respect to said roller, to disengage said hooked projections when they are released from each other; a bracket having a journal in which said trunnion may rotate; and a bracket having a bearing in which said shaft may be held against rotation.

1,459,156. DISTILLATION AND CRACKING OF MINERAL OILS AND OTHER HYDROCARBON-CONTAINING MATERIAL. NORMAN VICTOR SYDNEY KNIBBS, London, England. Filed Oct. 5, 1920. Serial No. 414,837. 3 Claims. (Cl. 196—25.)



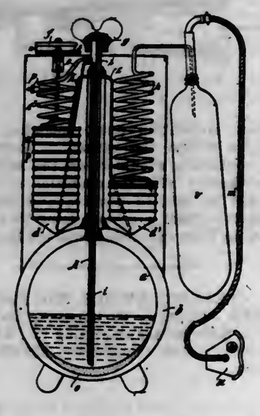
1. A process of distilling and cracking mineral oils and other hydrocarbon-containing materials, which consists in causing the material to be distilled or cracked to descend in a finely divided state through an unobstructed chamber in direct contact with a current of hot gas produced by the combustion of the less volatile residues obtained in the treatment of the material.

1,459,157. KNITTING MACHINE AND METHOD OF FORMING REENFORCEMENTS. ROBERT H. LAWSON, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Jan. 20, 1923. Serial No. 613,853. 94 Claims. (Cl. 66—21.)



89. A knitting machine containing, in combination, a series of independently, reciprocable needles; means to effect initiating movement for yarn-taking reciprocation of one of said needles; and means to cause such initiating movement for the said reciprocation of that one of said needles to effect initiating movement for the yarn-taking reciprocation of a neighboring needle of the said series.

1,459,158. APPARATUS FOR GENERATING RESPIRABLE AIR FROM LIQUEFIED GASES. LEOPOLD LISSE, Berlin, Germany. Filed July 19, 1920. Serial No. 397,555. 3 Claims. (Cl. 62—92.)



1. In apparatus for generating respirable air from liquid air container with means for facilitating the evaporation, a pipe through which said liquid container communicates with the atmosphere, a throttle valve at the outlet of said pipe, an evaporation chamber, a pipe connecting said container with said chamber, said chamber being supplied with more or less liquid the more or less said valve is throttled.

1,459,159. VEHICLE BODY. HERMAN C. MAISE, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 18, 1921. Serial No. 462,084. 7 Claims. (Cl. 296—46.)

1. In a vehicle body having a compartment, a swinging closure for one side of said compartment, an aux-

iliary seat pivotally supported at one end to be turned into engagement with said closure, said closure forming a support for one end of said auxiliary seat, and means



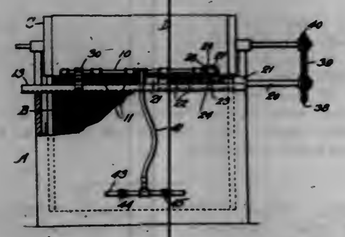
for detachably securing the end of said auxiliary seat in engagement with said closure, said seat serving to brace and hold said closure.

1,459,160. WATER CIRCULATOR FOR GAS ENGINES. FRANK B. NIMS AND VOIGT J. NIMS, Stockton, Calif. Filed Nov. 5, 1921. Serial No. 513,178. 7 Claims. (Cl. 103—103.)



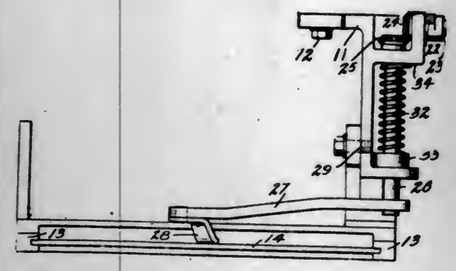
1. A water circulating pump including a casing, a bearing sleeve within the casing, a shaft turnable in the sleeve, contacting shoulders on the shaft and sleeve, and means whereby with the operation of the pump the shoulders will be held in positive and continuous frictional contact to form a ground joint to seal the water against passing from the casing into the bearing sleeve.

1,459,161. CLEANING DEVICE FOR PAPER-MAKING MACHINES. CHARLES F. ROBERTS, Lockport, N. Y., assignor to Roberts Manufacturing Co., Lockport, N. Y. Filed Nov. 17, 1919. Serial No. 338,653. 5 Claims. (Cl. 92—50.)



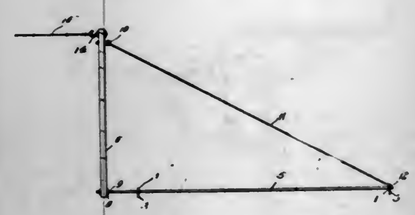
1. In a showering device for use on paper making machines, the combination of a pipe having a number of discharge nozzles through which a fluid may be ejected, and which are spaced at intervals along said pipe, a rotatable shaft, a part connected to and movable along said shaft and to which said pipe is connected, a spiral groove on said shaft, and a key connected to said part and engaging in said groove, whereby said part will slide along said shaft when said shaft is rotated and cause said pipe to reciprocate.

1,459,162. GUARD FOR PUNCH PRESSES. FRANK J. RUGGIERO, New York, N. Y. Filed Sept. 23, 1919. Serial No. 325,630. 9 Claims. (Cl. 74—105.)



1. The combination with a press and a controller therefor, a rod connected with said controller, a base adjustably secured to the press, a movable gate for guarding the press carried by the base, guides for the gate, a treadle for operating said gate, a rod extending from the treadle to the gate mechanism, a sleeve on the controller rod encircling said treadle rod and a shoulder on the treadle rod positioned to engage said sleeve when the treadle has been operated to shift the gate into its protective position.

1,459,163. CHECKROW-WIRE SUPPORT. AUBREY M. SCHIMBERL, Moundville, Mo. Filed June 20, 1922. Serial No. 569,669. 1 Claim. (Cl. 111—49.)

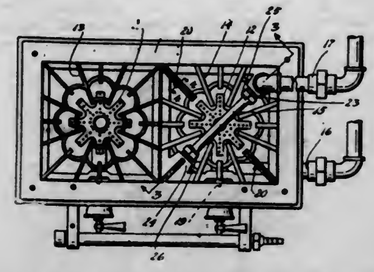


In a support for check row wires comprising pairs of spaced anchor members at opposite ends of a field, a rod journaled within eyes formed in each pair of anchor members, a bar rigidly connected to one end of the rods and arranged at right angles thereto, hooks in the free ends of each bar adapted for securing a checking wire between said bars and a guy wire between the free ends of each bar and rod.

1,459,164. WATER HEATER. FRANK SCHORIK, Chicago, Ill. Filed Sept. 5, 1922. Serial No. 586,171. 14 Claims. (Cl. 126—54.)

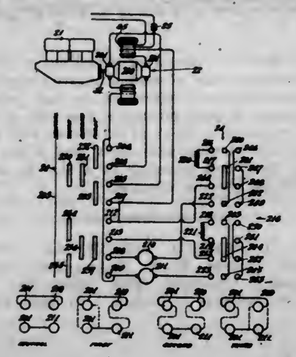
1. The combination with a burner, of a storage tank, a conduit having portions connected with said storage tank and extending adjacent to said burner; a sectional

vessel supporting member disposed over said burner and having said portions connected thereto; and a heat-



ing element communicating with said conduit portions and connected with said supporting member in such manner as to hold the same in assembled position.

1,459,165. ELECTRIC DRIVE FOR VEHICLES. JACOB SCHURCH, Los Angeles, Calif., assignor of one-half to William H. Heise, Los Angeles, Calif. Filed Jan. 4, 1921, Serial No. 435,040. Renewed Mar. 3, 1923. 4 Claims. (Cl. 290—14.)

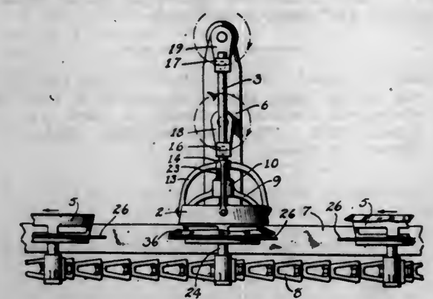


4. In a vehicle, the combination of: an internal combustion engine; a series direct current generator driven by said engine and having a single field and an armature having two windings; means for connecting said armature windings in series or in parallel; series direct current motors driving said vehicle; and means for connecting said generator to said motors.

1,459,166. PIE MACHINE. DENNIS W. SMITH, Wilmette, Ill., assignor to Colborne Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,829. 2 Claims. (Cl. 107—1.)

2. In a pie machine, the combination of a frame, a conveyer continuously movable along said frame, pie-plate supports carried by said conveyer, a standard mounted on said frame, a pair of cranks rotatably mounted on said standard in vertically spaced relation, a vertically disposed shaft pivotally connected to said cranks and bodily revolvable about a horizontally disposed axis while maintaining a constant vertical position, means carried by said shaft and shiftable into contact with the dough on pie plates resting on said sup-

ports during the travel of said pie plate past said standard and adapted to shape the dough around the perimeter

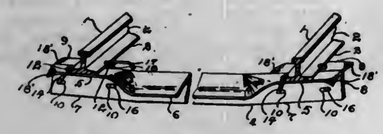


of the pie plates, and means for synchronizing the movement of said shaft with that of said conveyer, substantially as described.

1,459,167. PROCESS OF CONCENTRATING ORES. REINOLD V. SMITH, Salt Lake City, Utah, assignor to Eureka Metallurgical Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 4, 1922. Serial No. 541,205. 7 Claims. (Cl. 83—85.)

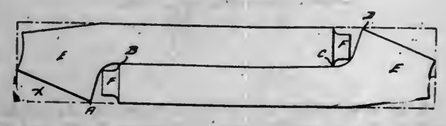
1. The process which comprises oiling and sulfidizing oxidized ore in an aqueous pulp, substantially removing the water of the pulp after such oiling and sulfidizing, diluting said pulp with uncontaminated water, and subjecting the same to flotation.

1,459,168. CROSSTIE. HENRY C. TULLY, Toledo, Ohio. Filed Apr. 30, 1921. Serial No. 465,730. 9 Claims. (Cl. 238—58.)



4. A cross-tie including an angle member having an intermediate portion thereof depressed.

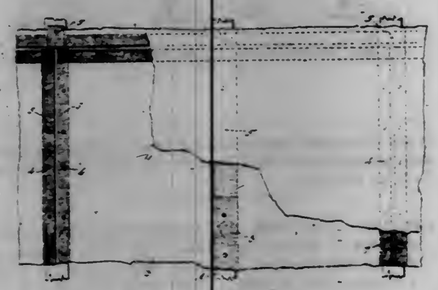
1,459,169. METHOD OF MAKING SPOKES. JAMES H. WAGENHORST, Jackson, Mich. Original application filed Nov. 15, 1918, Serial No. 262,649. Divided and this application filed July 28, 1921. Serial No. 488,155. 2 Claims. (Cl. 144—309.)



1. The herein described method of making spokes which consists in providing a billet substantially rectangular in shape, cutting into said billet at one side thereof at a point adjacent one end and carrying said

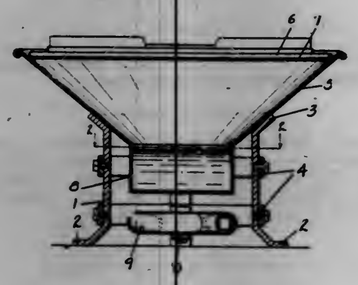
cut inwardly to a point in the longitudinal center of said billet and then continuing said cut along said longitudinal line for the greater portion of the billet and then carrying said cut to the opposite side of the billet at a point adjacent the opposite end thereof, thereby providing two similar spoke blanks.

1,459,170. WALL CONSTRUCTION. CURRY ORA WALPER, Detroit, Mich., assignor of one-third to Frank A. Maslen and one-third to Bernard E. Clark, both of Detroit, Mich. Filed July 20, 1922. Serial No. 576,262. 8 Claims. (Cl. 72—17.)



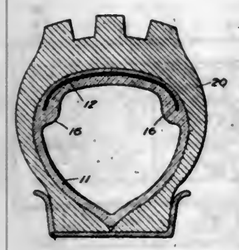
1. A wall structure comprising a composition board, a substantially unyielding member with which the central portion of the board is in contact on one surface, a surface coating on the opposite surface of said board, and a reinforcing fabric embedded in said surface coating opposite the point of contact of the board with said member.

1,459,171. APPARATUS FOR REMOVING ABRASIVE DISKS FROM GRINDING WHEELS. FREDERICK A. WILLARD and MATHEW D. WILLARD, Jackson, Mich. Filed May 8, 1922. Serial No. 559,500. 4 Claims. (Cl. 126—350.)



1. In a structure of the class described, the combination of a supporting base, an inverted frusto conical grinding disk holder adapted to receive and support grinding disks of varying sizes mounted on said base, a steam generating pan secured to the lower edge of said disk holder to deliver thereto, and a heating burner mounted on said base below said pan.

1,459,172. INNER TUBE. JOSEPH C. WISE, Los Angeles, Calif. Filed Jan. 5, 1922. Serial No. 527,088. 2 Claims. (Cl. 152—13.)



1. An inner tube comprising: a hollow ring of elastic rubber; and a series of nonelastic members extending across the periphery thereof and terminating in thickened shoulders formed in the body of said ring.

1,459,173. DOUBLE WINDOW SHADE AND CURTAIN SUPPORT. JOHN WLOSZEK, Donora, Pa. Filed May 5, 1922. Serial No. 558,561. 2 Claims. (Cl. 156—23.)



2. In a device of the class described, a curtain supporting bracket, a pair of hooked fingers projecting therefrom, a forked lever fulcrumed to and between said hooked fingers, a block pivoted in the fork of said lever eccentric to the pivot point of the latter, and a clamping screw threaded through said block, and a pin projecting from said block and engaging in a slot in one of said fingers, for the purpose specified.

1,459,174. OVERHEAD ELECTRICAL CONDUCTOR SYSTEM. HENRY B. P. WRENN and ALOYSIUS S. O'DONOGHUE, Cleveland, Ohio. Filed Nov. 11, 1922. Serial No. 600,458. 7 Claims. (Cl. 191—40.)

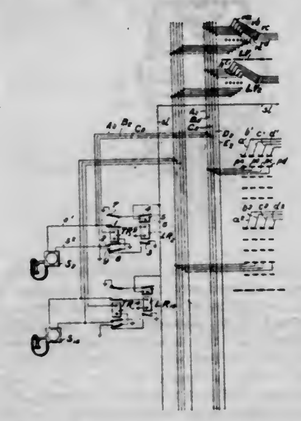


1. An electrical system of the character set forth comprising a main feeder wire and a plurality of contact wires connected to said feeder wire, said contact wires being arranged in a series of overlapping loops.

1,459,175. TELEPHONE-EXCHANGE SYSTEM. FRITZ ALDENDORFF, Berlin-Wilmersdorf, Germany. Filed Dec. 31, 1914. Serial No. 879,950. 11 Claims. (Cl. 179—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

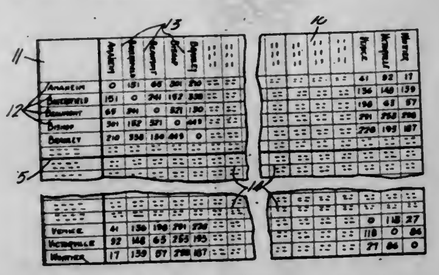
1. In a telephone exchange system, a calling subscriber's telephone line, two line finders having movable

and stationary contacts, said line terminating at the exchange in stationary contacts of both line finders, an operator's position, a direct connection between the movable contacts of one line finder and said position, a trunk selecting switch individual to said position, a selector switch, stationary and movable contacts for said switches, direct connections between the stationary contacts of said trunk selecting switch and the movable



contacts of said selector and the second line finder, a called line terminating in the stationary contacts of said selector switch, means jointly controlled by the calling subscriber and the operator for establishing a temporary connection including only said two line finders and said trunk selecting switch, and means controlled by the operator for establishing a direct connection between the called line and the movable contacts of the second finder.

1,459,176. DISTANCE FARE OR WAGE CHART. CHARLES C. BENNETT, Los Angeles, Calif. Filed Oct. 6, 1921. Serial No. 505,717. 5 Claims. (Cl. 283—32.)



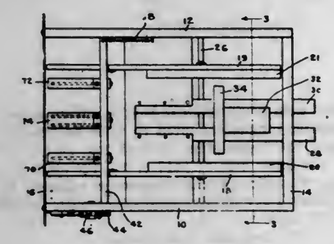
1. A distance chart comprising a sheet of thin flexible material having a portion adjacent to one edge folded over on the face of the sheet, the face of the folder-over portion of the sheet bearing a vertically disposed column composed of the names of stations, the upper portion of the face of the sheet to the right of the folded-over portion bearing a horizontally disposed column composed of the names of stations, the arrangement of the names in the two columns being identical, the face of the sheet below the horizontally disposed column and to the right of the folded-over portion bearing the vertically disposed column being printed with distance indicating numerals arranged in vertical and horizontal columns, and the arrangement of the numerals in the respective vertical and horizontal columns being identical.

1,459,177. PROCESS OF PRODUCING NORMAL AND MIXED ETHERS. CARNIE B. CARTER, Pittsburgh, Pa., and ALBERT E. COXE, Chicago, Ill., assignors, by mesne assignments, to S. Karpen & Bros., a Corporation of West Virginia. Filed Nov. 26, 1920. Serial No. 426,641. 7 Claims. (Cl. 260—151.)

1. The process of producing ether, which comprises causing a reaction between a halogenated aliphatic hydrocarbon and an alkali and an alcohol of the aliphatic series, such reaction being effected in a closed vessel under pressure.

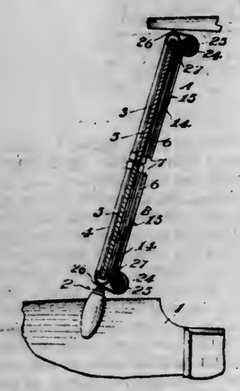
1,459,178. [WITHDRAWN.]

1,459,179. ENVELOPE-FEEDING ATTACHMENT. JOSEPH C. GUNDERSON, Grand Forks, N. Dak. Filed June 4, 1921. Serial No. 475,157. 3 Claims. (Cl. 271—2.)



1. An envelope-feeding attachment comprising a magazine, means for supporting a bunch of envelopes standing on edge in said magazine, a shaft mounted near one end of said magazine, a suction device secured to said shaft, said suction device being adapted to engage the end envelope of said bunch, a curved member forming a continuation of the bottom of said magazine and having said shaft as its center of curvature, and means for oscillating said shaft to lift the engaged envelope from vertical to horizontal position.

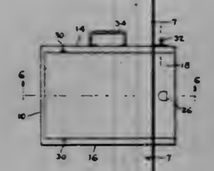
1,459,180. SUN AND GLARE SHADE FOR VEHICLES. GEORGE N. HEIN, San Francisco, Calif. Filed Oct. 17, 1921. Serial No. 508,368. 3 Claims. (Cl. 296—97.)



1. In combination with a support, a pair of parallel spaced rollers carried thereby, a window associated with

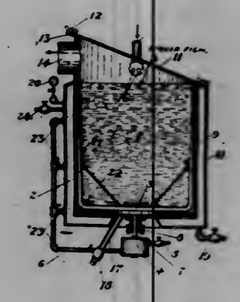
said support, a flexible curtain carried by each of said rollers, the free edges of said curtains adapted for independent free movement in the same plane to and from each other to provide a sight opening through said window between said curtain edges variable as to width and position, and means carried by the free edge of each curtain for releasably retaining said edge in its adjusted position.

1,459,181. TOILET CASE. EILEEN M. KLEBBA, Minneapolis, Minn. Filed June 20, 1921. Serial No. 479,093. 5 Claims. (Cl. 132—79.)



1. A toilet case comprising a box, a sliding cover for said box having tongues adapted to slide in grooves extending along the upper sides of said box, and a mirror secured on the inner side of said cover, the sides of said box having upwardly extending grooves adapted to receive said tongues for holding said cover with its mirror positioned for use.

1,459,182. DEVICE FOR HEATING, PASTEURIZING, AND EVAPORATING LIQUIDS. MAY C. MABEE, Toledo, Ohio. Filed Feb. 4, 1915, Serial No. 6,073. Renewed Nov. 20, 1920. Serial No. 425,560. 18 Claims. (Cl. 127—9.)



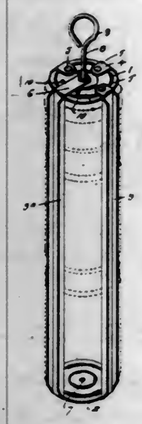
1. In an apparatus for treating liquids to change the condition or consistency thereof, the combination of a tubular container having an inlet adjacent one end for the material to be treated and an outlet at the opposite end for the escape of the treated material, and also having at one end a relatively large outlet for the escape of vapors and gases, means for exteriorly heating the container whereby the inner surface thereof constitutes a treating surface, and conveyor means within the container adapted to apply the material in cylindrical layer formation on the treating surface and for causing said layer of material to rapidly move over said surface, said conveyor means extending longitudinally of and adjacent to the treating surface and supported wholly at one end whereby to offer no obstruction centrally of the container, and whereby to provide a quiet zone for the escape of vapors and gases from the layer and through said relatively large outlet.

1,459,183. HUMIDIFIER FOR INTERNAL-COMBUSTION ENGINES. WILLIAM H. MARSHALL, Denver, Colo., assignor, by mesne assignments, to Louis F. Raymond, Chicago, Ill. Filed July 2, 1917. Serial No. 178,218. 8 Claims. (Cl. 183—43.)



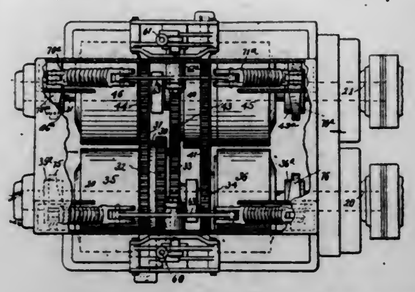
1. A humidifier for internal combustion engines, comprising a casing whose lower portion is adapted to be connected with a source of moisture and whose upper portion is adapted to be connected with the engine cylinders, the casing below the moisture inlet being equipped with a water trap provided with a siphon for automatic discharge, and means arranged within the casing between the moisture inlet and the moisture outlet, for preventing water in liquid form from reaching the moisture outlet, said means comprising a baffle plate, a mesh diaphragm and a suspended hood said moisture inlet being situated below said baffle plate and said plate being below said mesh diaphragm.

1,459,184. SANITARY MILK AND BUTTER COOLER. JOHN A. MORTON, Williston, Tenn. Filed Aug. 11, 1921. Serial No. 491,635. 1 Claim. (Cl. 220—1.)



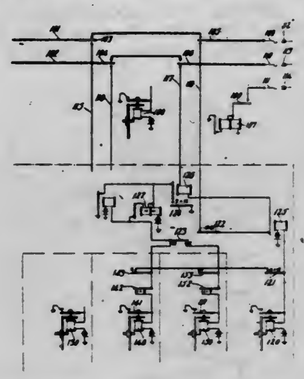
A device of the class described including a plurality of strips to enclose and support an article, a disk from which said strips depend, one of said strips having an end member overlapping said disk, a suspending means for the device rising from the disk, said suspending means passing through said end member whereby the last mentioned strip is pivoted to the disk in order that it may function as a closure, and bits pressed out from said disk between which said end member is normally disposed and by which the last mentioned strip is fastened in closed position.

1,459,185. SLIDE-OPERATING MECHANISM. GORDON R. PENNINGTON, Cleveland, and SAMUEL K. WELLMAN, Cleveland Heights, Ohio. Filed Dec. 5, 1919. Serial No. 342,626. 6 Claims. (Cl. 180—17.)



1. In variable speed transmission mechanism, the combination of a driven shaft, two gear sleeves which are rotatably mounted thereon, means for turning said sleeves in the same direction but at different rates, two clutches which are respectively associated with said gear sleeves for connecting them to the shaft, a single lever, and means operated by movements of the lever in opposite directions for selectively closing either clutch without affecting the other.

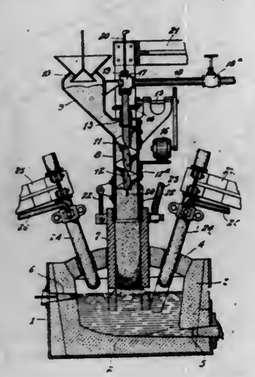
1,459,186. TELEPHONE-EXCHANGE SYSTEM. LIPA POLINKOWAKY, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1920. Serial No. 377,980. 10 Claims. (Cl. 179—18.)



1. In a telephone exchange system, a telephone line, a selective switch, a second selective switch, a plurality of switch-controlling registers, means controlled in accordance with the setting of one of said controlling registers for operating said first switch to extend the telephone line to said second switch, and means operated in accordance with the extent of operation of said first switch for controlling the operation of said second switch to further extend the telephone line.

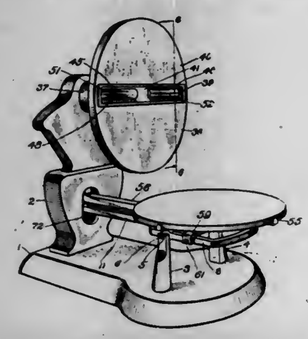
1,459,187. PROCESS OF REDUCING METALLIC OXIDES. EMIL BRUCE PRATT, East Cleveland, Ohio. Filed Nov. 2, 1920. Serial No. 421,319. 6 Claims. (Cl. 204—63.)

1. The process of reducing metallic oxides, such as iron ores and the like, to the metallic state, which consists in charging materials comprising the oxides and a hydrocarbon reducing agent into a refractory container so as to substantially fill the same and with the oxides and reducing agent mixed, heating the said container and the mixed oxides and hydrocarbon therein until said hydrocarbon is decomposed into carbon and hydrogen and meanwhile maintaining the reducing agent, whether



it is in a solid, liquid, vapor or gaseous state, in intimate contact with the metallic oxides throughout the mass thereof, and continuing to heat the said mixture while still in said container and while the hydrogen and carbon are in intimate mixture and contact with the metallic oxides until the metallic oxides are reduced to the metallic state by the action of the decomposed hydrocarbon.

1,459,188. SCALE. CHARLES D. SCOTT, Topeka, Kans., assignor to The Scott Weighing Machine Co., Topeka, Kans., a Corporation of Kansas. Filed May 31, 1921. Serial No. 473,829. 2 Claims. (Cl. 265—37.)

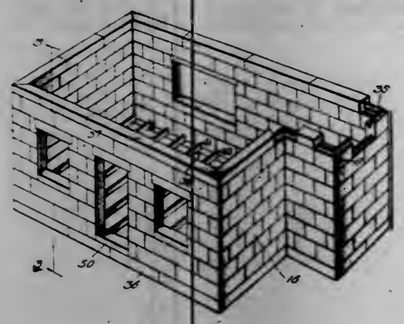


1. In a scale, a base, a lever pivoted on the base, a segmental counterbalance, a flexible connection between the counterbalance and the nose of the lever, a rotatable shaft, a pulley thereon, oppositely wound tapes around the pulley and connected to the segmental counterbalance, and a chart carried by said shaft.

1,459,189. BUILDING BLOCK. GUSS A. SWANSON, Chicago, Ill. Filed Mar. 13, 1919. Serial No. 282,316. 17 Claims. (Cl. 72—38.)

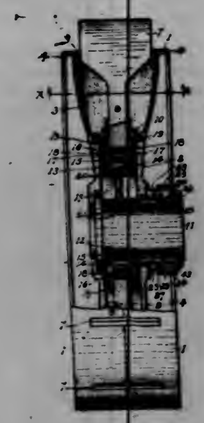
1. A building block formed with two parallel sides and two suitable ends, the upper and lower edges of said

sides being formed of oppositely disposed symmetrical configurations each of said edges including an angular



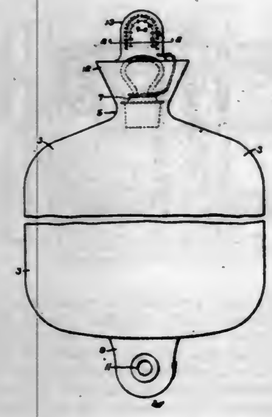
channel having vertical walls and a bead adapted to enter and engage the corresponding channel of the vertically adjacent block.

1,459,190. TRACTOR WHEEL. GLENN J. WALKER, Detroit, Mich., assignor to Midwestern Tractor Wheel Co., Detroit, Mich., a Corporation of Delaware. Filed Mar. 18, 1921. Serial No. 453,444. 13 Claims. (Cl. 301—48.)



13. In a traction wheel, the combination of a body divided vertically on a central plane of the rim of the body into two parts, said body comprising a rim portion and a central casing with hollow spokes connecting said rim and casing, a plurality of traction blades slidable radially within the spokes through openings in the rim with their inner ends within the casing, said spokes providing bearings for said blades to guide the same radially of the wheel and prevent lateral movement of the blades, an eccentric within the casing providing an eccentric guideway, a plurality of blocks slidable in the guideway and pivotally connected to the inner ends of the blades, and means for adjusting the position of the eccentric relative to the wheel and holding the same in adjusted position.

1,459,191. LIQUID CONTAINER. FRED O. WILLIAMS, Brookline, Mass. Filed Feb. 2, 1918. Serial No. 215,152. 2 Claims. (Cl. 128—258.)



1. A liquid container of flexible waterproof material having an extended portion projecting at the mouth thereof constituting a tab for handling the container, said portion having raised characters molded thereon whereby to permit providing a time registration and to afford a gripping surface.

1,459,192. CARRIER FOR CONTAINERS AND THE LIKE. HORACE BELL, Erie, Pa. Filed Aug. 16, 1922. Serial No. 582,270. 7 Claims. (Cl. 215—100.)

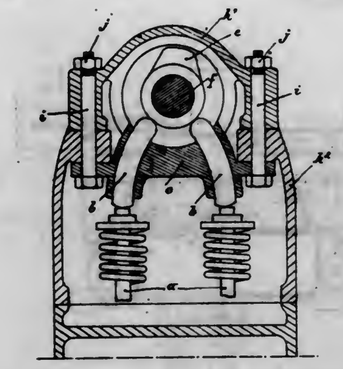


1. A carrier formed of a spiral coil of wire having a restricted coil at the bottom forming the bottom of the carrier.

1,459,193. VALVE MECHANISM. ETTORE BUGATTI, Molsheim, France. Filed Oct. 27, 1920. Serial No. 419,944. 2 Claims. (Cl. 123—90.)

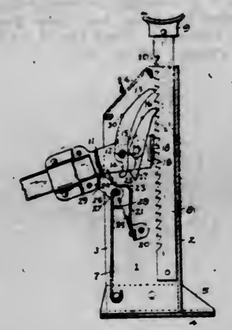
1. Valve control for internal combustion engines comprising a cam shaft, a solid member having guides formed

therein, a curved tappet slidable in each of said guides and co-operating with the end of the respective valve



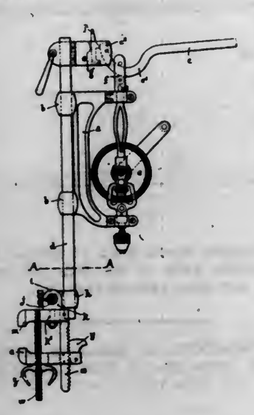
stem, whereby the cam shaft is enabled to control the valves which are co-axial with the said curved tappets.

1,459,194. PAWL AND RATCHET JACK. JOHN H. BURKHOLDER, Ashland, Ohio, assignor to Elite Manufacturing Company, Ashland, Ohio, a Partnership composed of John F. Burkholder, Guy A. Countryman, and E. L. Kilhefner. Filed May 17, 1922. Serial No. 561,580. 3 Claims. (Cl. 254—111.)



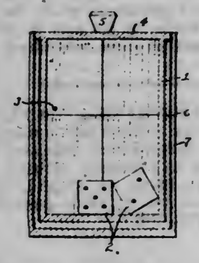
1. In a pawl and ratchet jack having a standard and a rack bar movable vertically in said standard, the combination with the pivoted lifting and check pawls spring pressed toward said rack and engageable with the teeth thereof, said lifting pawl being mounted upon the vertically movable operating member, said check pawl being mounted on a fixed pivot and both said pawls having tail portions extending below their pivots; of a shiftable pawl tripper having a portion engageable with the tail of said check pawl to move said pawl out of rack engaging position; means for shifting said tripper into engaging position; and yielding means interposed between said moving means and tripper; said tripper having a portion engageable by the tail of said lifting pawl during the downward movement thereof to move said tripper against the action of said yielding means to release said check pawl.

1,459,195. PORTABLE DRILLING MACHINE. HENRI COLOMBELLE, Le Raincy, France. Filed July 2, 1920. Serial No. 393,761. 4 Claims. (Cl. 77—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A portable drilling machine, comprising a supporting rod, a frame mounted to slide and swing upon said rod, collars provided upon the frame for supporting a breast drill, a feed lever having a curved end portion, a fulcrum mounted to slide and swing upon the rod and in which the end of the lever is mounted, and a roller mounted in the frame in a line with the axis of the drill with which the curved portion of the lever contacts when the lever is swung to feed the drill.

1,459,196. DICE-CASTING CONTAINER. HAROLD R. COSSITT, Alameda, and JOSEPH SINEL, San Francisco, Calif., assignors, by direct and mesne assignments, to Ninety Nine Publishing Company, Incorporated, Carson City, Nev., a Corporation of Nevada. Filed May 24, 1922. Serial No. 563,252. 2 Claims. (Cl. 46—56.)



1. A dice-casting container comprising an open-top casting cup; and a storage cage for casting-elements, adapted to be nested in the cup, said cage having its lower portion peripherally closed, its upper portion having peripheral openings, and its top having a cover adapted to rest upon and form a closure for the open top of the cup.

1,459,197. FOUNDRY FLASK. HERBERT C. DRUMM, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 17, 1922. Serial No. 582,417. 17 Claims. (Cl. 22—96.)

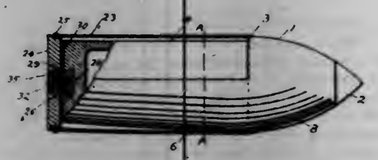
1. A foundry flask comprising a sheet metal body portion, reinforcing sheets connected to the side walls thereof

and reinforcing sheets connected to the end walls of the body portion and to said side reinforcing sheets, certain



of said reinforcing sheets being of greater length than the corresponding walls of the flask and extended outward beyond said flask walls at each end.

1,459,198. PROJECTILE. LEONID A. DUNAJEFF, New York, N. Y. Filed May 2, 1921. Serial No. 466,034. 8 Claims. (Cl. 102—26.)

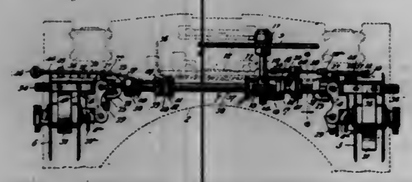


1. In a projectile, the combination with a shell, a shoulder on the upper side of said shell near its forward portion, and a longitudinally extending recess back of said shoulder.

6. In a projectile, a protective casing for said projectile, means to admit the air under compression in flight inside of said protective casing, a valve adapted to release said compressed air back of said projectile, and inertia operated means to control said valve.

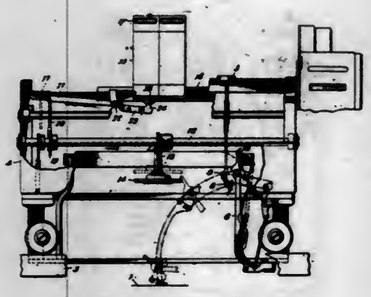
7. In a projectile, a gyroscopic wheel, the axis of said wheel being perpendicular to the axis of said projectile, and a spring adapted to press said wheel against the bore of the gun.

1,459,199. RIBBON MECHANISM FOR TYPEWRITING MACHINES. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Original application filed Dec. 14, 1914, Serial No. 877,216. Divided and this application filed Aug. 17, 1918. Serial No. 250,314. 17 Claims. (Cl. 297—100.)



4. In a typewriter, the combination with a movable carriage, of a pair of ribbon spools, ribbon feeding mechanism operated by the movement of the carriage and ribbon controlled ribbon reversing mechanism also operated by the movement of the carriage.

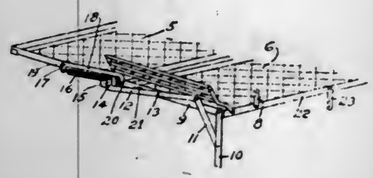
1,459,200. SPACING MECHANISM. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Filed June 23, 1919. Serial No. 306,102. 14 Claims. (Cl. 235—59.)



1. The combination with a platen and printing mechanism relatively movable to space the printed characters, of automatic means for varying the relation between the spacing of the printed characters and the spacing movement of the platen and printing mechanism.

14. In a writing adding machine, a series of denominational members, a platen and printing mechanism having relative step by step spacing movement, such relative spacing movement being uniform and corresponding to the spacing of the denominational members, and means whereby the characters printed will be nonuniformly spaced.

1,459,201. CONVERTIBLE FURNITURE. JOHN FREEMAN, New York, N. Y., assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 7, 1921. Serial No. 520,556. 1 Claim. (Cl. 5—22.)

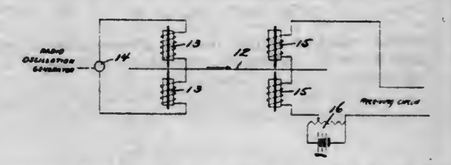


In a couch bed, a spring-supporting section, a relatively collapsible section adapted to be superposed upon and opened out in juxtaposition to and in substantially the same plane with the first mentioned spring-supporting section, pairs of bell crank levers connected to pivotal points of the respective ends of said sections to guide said collapsible section, relatively to the other section, in movements of substantial parallel translation when the position of said collapsible section is changed, and retractible legs connected to the collapsible section and actuated by said bell crank levers.

1,459,202. METHOD OF SENSITIZING THE TELEGRAPHONE. LEONARD F. FULLER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Aug. 26, 1918. Serial No. 251,372. 4 Claims. (Cl. 179—100.2.)

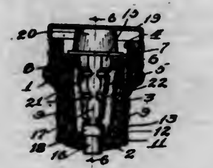
3. The method of recording signals on a magnetizable

body which consists in first bringing the body to its neutral state and then passing the body through a



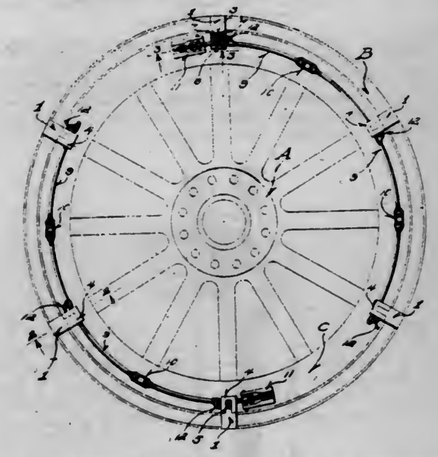
magnetic field produced by a direct current and a signaling current.

1,459,203. FUSE PLUG. JOHN B. GLOWACKI, Chicago, Ill. Filed July 21, 1919. Serial No. 312,330. 9 Claims. (Cl. 200—128.)



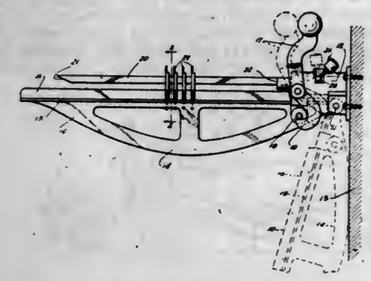
1. A fuse plug comprising a substantially conical member of insulating material having a metallic tip at one end and a conical metallic ring adjacent the other end, a support for the conical member, a conical metal seat in the support for engagement with the ring, a fuse strip having one end gripped between the said seat and ring, and means for detachably securing the other end of the fuse strip to the metallic tip.

1,459,204. DEMOUNTABLE-RIM FASTENER. NICHOLAS GREISCH, Milwaukee, Wis. Filed July 15, 1922. Serial No. 575,147. 2 Claims. (Cl. 301—25.)



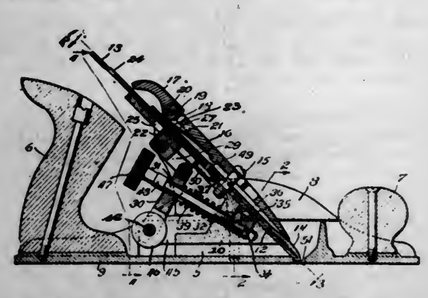
1. In a wheel having a detachable rim; the combination of means for locking the rim to the wheel including radially disposed apertured lugs depending from one face of the rim, companion apertured lugs extending from one face of the wheel for meshed engagement with the rim lugs, a series of connected plungers carried by the wheel for locking engagement with the rim and wheel lugs, and manually controlled means associated with a series of the plungers, whereby groups of the same are simultaneously actuated.

1,459,205. LAUNDRY-SORTING APPLIANCE. ANGUS F. HANNEY, Chicago, Ill., assignor to Eureka Rough Dry Pin System Co., Chicago, Ill. Filed May 19, 1922. Serial No. 562,247. 28 Claims. (Cl. 40—19.5.)



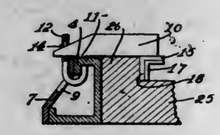
1. A laundry sorting rack comprising supporting means for receiving garments thereon; and auxiliary supporting means disposed beneath said first mentioned supporting means and offset with respect thereto.

1,459,206. PLANE. HENRY H. HARDINGE, Chicago, Ill. Filed June 14, 1920. Serial No. 388,771. 2 Claims. (Cl. 145—13.)



1. A plane comprising a body, a frog having an inclined upper wall provided with a longitudinal slot therein, a longitudinally slotted blade resting on said inclined wall, an adjustable block projecting through the slot in said frog and secured to said blade, an adjustable member pivoted at one end to said frog, links connecting the free end of said adjusting member to said block, and means for moving said adjusting member to effect longitudinal and lateral adjustment of said blade.

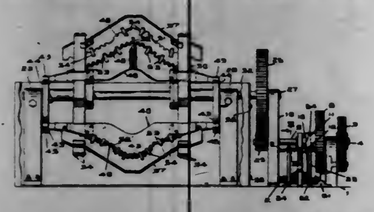
1,459,207. CONCRETE FORM. JOHN N. HELTZEL, Warren, Ohio. Filed Mar. 24, 1922. Serial No. 546,387. 4 Claims. (Cl. 25—118.)



1. In a device of the class described, a side rail; a support fulcrumed intermediate its ends on the side rail for vertical swinging adjustment and extended transversely of the rail; a curb former carried by the outer end of the support; and a connecting member engaging

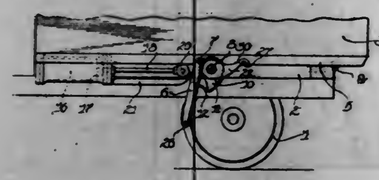
the inner end of the support and the rail, the connecting member comprising relatively adjustable parts constituting means for imparting vertical swinging adjustment to the support and the curb former.

1,459,208. SPRING MANUFACTURE. NIELS E. HENDRICKSON, Toledo, Ohio, assignor to The Mather Spring Co., Toledo, Ohio, a Corporation of Ohio. Filed Aug. 2, 1919. Serial No. 314,870. 7 Claims. (Cl. 266—6.)



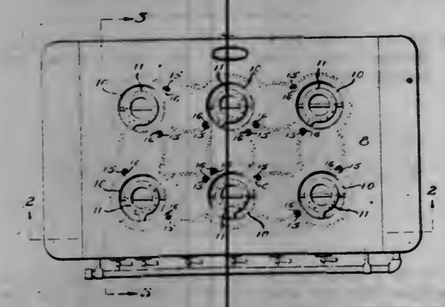
1. A spring forming machine comprising a first annular series of dies, an opposing second concentric annular series of dies, disposed in radial relation as to the first series each die of an inner series being radially opposed by a die of an outer series, a carrier for the dies, a vat, driving means for shifting the carrier to successively submerge the dies in the vat, and fixed means coacting with the dies of one series during said travel of the carrier for effecting movement thereof toward the opposing dies in forming a spring therebetween.

1,459,209. DUMPING GEAR. EARL B. HOUGH, Chicago, Ill., assignor to Guy M. Peters, trustee, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,432. 19 Claims. (Cl. 298—22.)



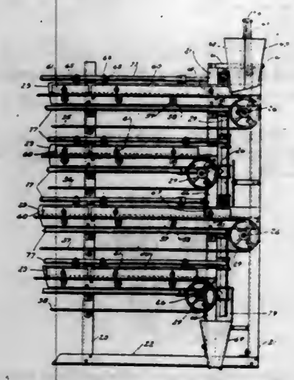
1. In combination, a frame, a cross shaft on the frame, a load pivoted to the frame, a drum on the shaft, an arm pivoted to the load and lying tangential to the drum, and a cable connected to the drum and to the arm, said drum and arm having a registering groove for receiving the cable between them.

1,459,210. STOVE TOP. CHARLES E. JOHNSON, Philadelphia, Pa. Filed Mar. 1, 1921. Serial No. 448,910. 4 Claims. (Cl. 126—214.)



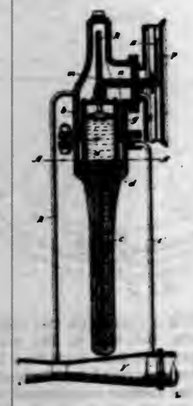
1. A stove top comprising a top plate having holes; flanges surrounding the holes and provided with outlets, and a gate at one side of each outlet adapted to close the outlet and, when opened, to act as a side wall of a passage from outlet to outlet.

1,459,211. DRIER. STEVE KALISZ, Chicago, Ill. Filed Apr. 30, 1921. Serial No. 465,664. 34 Claims. (Cl. 34—12.)



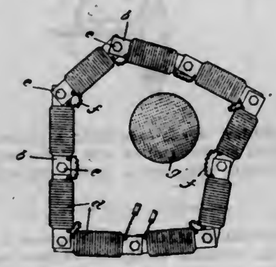
12. A device of the class described comprising a supply hopper having a discharge opening and a slidable door for the opening for regulating the passage of matter therethrough; reciprocatory means for forcing matter through the opening; continuous perforated belt conveyors arranged to receive the matter from the hopper; means for drying the matter carried by the conveyors; a receiving receptacle arranged to receive the matter from said conveyors; brush members engaging said conveyors adapted to remove the matter therefrom; and means for cooling the matter before received by the receiving receptacle, substantially as described.

1,459,212. RATE OF FLOW INDICATOR FOR VENTURI METERS. WILLY KATH, Berlin-Friedenau, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Aug. 24, 1921. Serial No. 494,966. 1 Claim. (Cl. 73—31.)



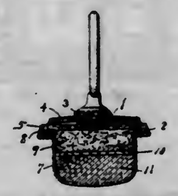
Rate of flow indicator for Venturi meters comprising two mercury vessels arranged one inside the other, a float, supported by the mercury in the inner vessel, and an indicator mechanism connected to said float, the outer vessel being shaped nearly up to the zero-line in such a way that the mercury level in the inner vessel changes in proportion to the quantity of fluid passing through the Venturi tube, and the interior vessel having at its upper portion down to a point slightly beneath the zero-line a larger sectional area and consisting at its lower portion of a small tube extending substantially to the bottom of the outer vessel, both vessels being so dimensioned adjacent to the zero-line that about this line the two mercury columns are of equal or of approximately equal sectional area.

1,459,213. ELECTRIC MEASURING APPLIANCE. GEORG KEINATH, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Nov. 2, 1920. Serial No. 421,395. 2 Claims. (Cl. 175—358.)



1. In a measuring transformer of the character described the combination of a closed chain of individual short cores suitably linked together to form a continuous magnetic path, completely surrounding the primary conductor, a secondary winding distributed over each core and electrical connection between all of said core windings, constituting a substantially uniformly distributed secondary winding on said chain.

1,459,214. HARNESS SADDLE. JAMES D. KELLER, Detroit, Mich. Filed Oct. 30, 1922. Serial No. 597,790. 3 Claims. (Cl. 54—41.)



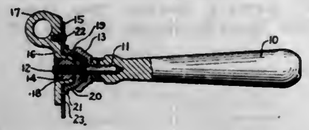
2. A harness saddle comprising a metal frame, a layer of leather upon which the frame is mounted, and a pad on the inner side of said leather layer consisting of a layer of wool felt next the leather, a layer of sponge rubber outside the felt, and a covering of porous leather enclosing the padding and having its edges secured to the layer of leather.

1,459,215. WHEEL-PRINTING MACHINE. MAXIMILIAN H. KERN, Ridgewood, N. Y., assignor to Roberts Numbering Machine Company, a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,236. 8 Claims. (Cl. 101—83.)

1. A wheel printing machine embodying therein a frame having elongated guide slots in the side walls thereof, and a bearing opening, the axis of which is parallel with said slots, in the top thereof, a reciprocatory yoke, a non-rotary bearing shaft carried by, and having the ends thereof projected beyond, said yoke, and slidably mounted in said slots, a plurality of character wheels, rotatably mounted upon said shaft, ratchet wheels carried by and rotatable with said character wheels respectively, a detent pawl co-operating with each ratchet wheel, a spring operative upon each pawl, a swing frame pivotally mounted in said first named frame, an ink pad carried thereby and adapted to co-operate with said character wheels, oppositely disposed, vertically extending racks carried by and movable with said yoke, segmental gears carried by and concentric with the axis of said swing frame and meshing with said racks respectively, whereby reciprocatory movement of said yoke will impart an oscillatory movement to said swing frame, actuating means for said yoke embodying therein a stem secured thereto and passing through the bearing opening in the top of said frame, and a spring adapted to raise said yoke and actuate said swing frame so as to engage the ink pad thereon with the printing wheels carried by said yoke.

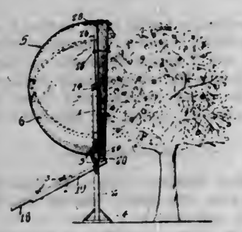


1,459,216. FLOOR SCRAPER. FRANK I. KIMBALL, West Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed May 2, 1921. Serial No. 466,018. 19 Claims. (Cl. 145—47.)



1. A floor scraper including a handle, a stem thereon, a blade and a blade mounting comprising a pair of members between which the blade is clamped and through which the stem passes, and means on the stem upon both sides of the blade mounting to attach the latter to the stem for universal movement thereon.

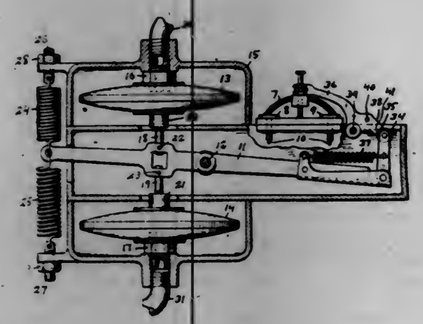
1,459,217. FUMIGATION TENT. EMIL A. KLEIN, Los Angeles, Calif. Filed Mar. 29, 1922. Serial No. 547,831. 5 Claims. (Cl. 43—126.)



1. In a fumigation tent the combination including relatively spaced vertical supports, a permanently ex-

tended top member horizontally pivoted to the upper portions of said supports, a fabric skirt member attached to the top member and extending to the ground to form the side walls of the tent, and means for manipulating the skirt member.

1,459,218. CONTROLLING APPARATUS. GEORGE A. KNAAK, Milwaukee, Wis. Filed Dec. 1, 1919. Serial No. 341,701. 3 Claims. (Cl. 137—156.)



3. The combination, in controlling apparatus, of a lever pivoted upon a fixed pivot, oppositely acting fluid-pressure operable members to move said lever in opposite directions upon its pivot, and adjustable springs acting in opposed relation to determine movements of said lever according to predetermined differences between the pressures exerted by the fluid-pressure operable members.

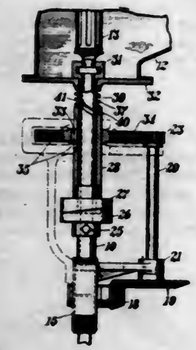
1,459,219. BURIAL-VAULT TEMPORARY-HANDLE LOCK. HENRY K. KNUTSON, Thor, Iowa. Filed Oct. 17, 1922. Serial No. 595,086. 3 Claims. (Cl. 293—37.)



1. In combination, a burial vault having a base member and a cover member, a series of handle members for said cover member and a series of handle members for said base member, means for automatically locking the handle members of the cover member and those of the base member together, and means for unlocking said locking means.

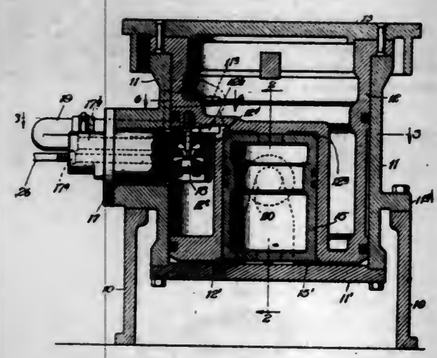
1,459,220. SHIP SIREN. JOHN J. KRAUSE, Portage, Pa. Filed June 19, 1922. Serial No. 569,318. 3 Claims. (Cl. 116—147.)

2. A siren for ships comprising a revolubly mounted horn, a sounding device therein, a cylindrical member fixed to and extending axially of said horn and having a spiral slot in the side thereof, a sleeve surrounding said member and having a pin engaging in said slot, means for rotating said sleeve, and means for moving



it axially, said last means comprising a stationary cam, a cam mounted on one end of said sleeve and bearing on said stationary cam, and a spring pressing against said sleeve.

1,459,221. MOLDING MACHINE. WILLIAM P. KRAUSE, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1921. Serial No. 444,340. 9 Claims. (Cl. 22—45.)

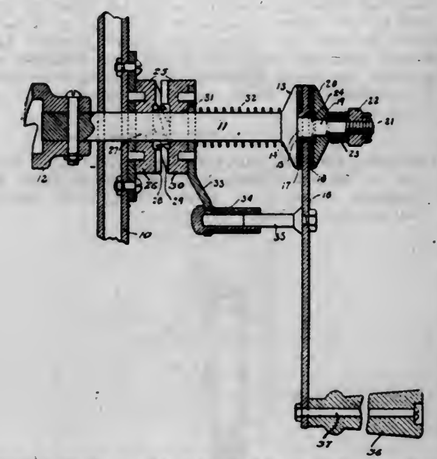


1. A machine of the class described, comprising a main cylinder, a plunger reciprocable therein, said plunger being recessed to provide a subordinate cylinder, a post reciprocable in said latter cylinder, means to supply actuating fluid beneath said plunger and post to raise them together, and means to supply actuating fluid to said subordinate cylinder to raise said plunger relative to said post.

1,459,222. CRANKING DEVICE. ALEXANDER KUZMANN, Philadelphia, Pa. Filed Jan. 17, 1922. Serial No. 529,863. 7 Claims. (Cl. 74—33.)

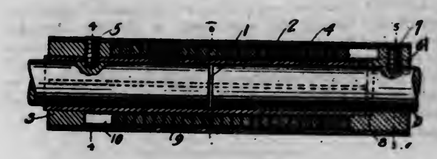
1. A device of the character described including a spindle shaft; a relatively fixed supporting structure; a lever; friction connecting means between said lever and said spindle shaft; and a locking clutch having parts respectively connected to said supporting structure and to said lever, and means disposed between said lever and

the adjacent clutch part to move said clutch parts relatively to each other out of locking engagement when the



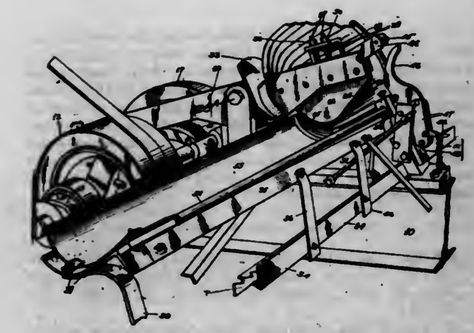
lever is moved in one direction and to move said parts into locking engagement when said lever moves in an opposite direction; substantially as described.

1,459,223. ELASTIC SHAFT CONNECTION. GEORGE LANZIUS, late of New York, N. Y.; Evelyn Elizabeth Fairbanks Lanzius executrix of said George Lanzius, deceased. Filed June 26, 1920. Serial No. 391,986. 10 Claims. (Cl. 64—89.)



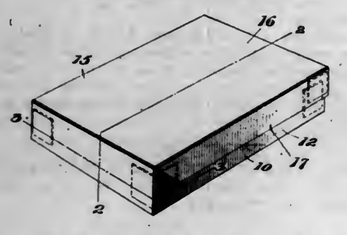
1. In combination with a driving and a driven element, means operated by the driving member for keeping the elements in alignment and means for compressing the alignment keeping means on the elements.

1,459,224. MACHINE FOR FORMING SHEET-METAL BASKETS. TALBOT LENNOX, Marshalltown, Iowa. Filed Dec. 6, 1920. Serial No. 428,715. 9 Claims. (Cl. 153—75.)



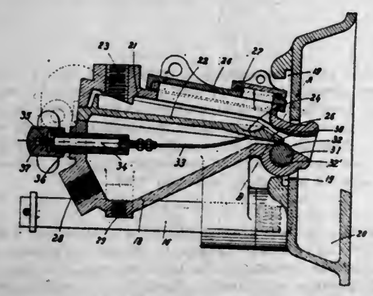
1. In a rib forming mechanism for sheet metal articles, the combination of two rib forming devices, one being capable of movement toward the other, one of said rib forming devices comprising a single rib forming plate, and the other comprising two rib forming plates spaced apart, and a third plate between them, and a spring device applied to the said third plate to yieldingly hold it projected beyond the other two plates and to permit it to be forced back between the other two plates, all of said rib forming plates also being curved longitudinally with one end portion thereof substantially at right angles to the other.

1,459,225. PAPER BOX. HAROLD M. LEVY, New Orleans, La., assignor to Crescent Paper Box Factory, New Orleans, La., a Corporation of Louisiana. Filed Sept. 7, 1920. Serial No. 408,420. 9 Claims. (Cl. 229—44.)



1. A paper box comprising a body or tray section having an end flange, a cover section having a hinge flap secured to one side of said end flange, and a covering for said cover section secured to the opposite side of said end flange.

1,459,226. BURNER FOR LIQUID COMBUSTIBLES. CHARLES LINKÉ, Paris, France, assignor of one-half to Joseph Gemayel, Paris, France. Filed June 23, 1921. Serial No. 479,899. 3 Claims. (Cl. 158—78.)

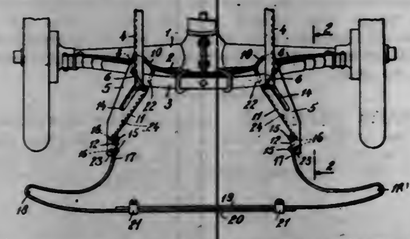


2. In a fluid fuel burner a transversely extending plate adapted to sustain a stream of fluid fuel and to allow the fuel to escape by gravity over its edge, a nozzle wall arranged beneath and opposite the edge of said plate and forming therewith a nozzle, such nozzle forming the orifice of a conduit for compressed gas, and a movable member arranged adjacent the orifice formed by and between the said nozzle wall and the edge of said plate and by movement effecting variation in size of such orifice.

1,459,227. REAR ATTACHING DEVICE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Mar. 27, 1922. Serial No. 547,326. 8 Claims. (Cl. 293—55.)

4. In automobile buffer attaching devices, forged steel attaching plates having adjacent one end substantially flat upper clamping surfaces adapted to fit beneath the rear ends of the frame channels of a Ford automobile and formed with aligning retaining members adapted to

engage said frame members and align the plate with respect thereto, U-bolts extending around said frame members and passing through holes in said attaching plates to securely connect them to the frame members said attaching plates having outwardly diverging gradu-



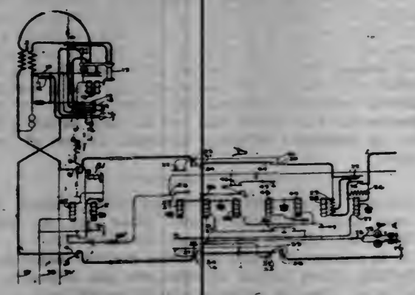
ally narrowing rear ends and having stiffening bent portions comprising edges stiffening flanges forming substantially vertical clamping faces at the free rear ends of the plates adjacent the upper aligning face thereof to which the attaching members of the buffer may be connected.

1,459,228. HAIR CURLER. ORA D. MCCLINTOCK, Chicago, Ill. Filed June 3, 1922. Serial No. 565,699. 1 Claim. (Cl. 132—43.)



A hair curler comprising a rubber tube, and a flexible hairpin member formed of soft wire and provided with a rubber covering, the said hairpin member provided with a loop at one end larger than the diameter of said tube, and a clasp member surrounding the marginal wall of said tube and adapted to releasably engage a strand of hair between said clasp and said tube.

1,459,229. MEASURED-SERVICE AUTOMATIC TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1919. Serial No. 297,332. 22 Claims. (Cl. 179—6.3.)



1. In a telephone system, a line, a pay-station for said line, automatic switches for establishing a connection from said line to another line, a battery of one voltage for controlling said switches, said pay-station non-responsive to current from said battery in either direction, two other batteries, automatic means for preparing circuits of two different characters from said other batteries for said pay station, the circuit prepared depending upon the completion or the non-completion of the call, and means controlled by a calling subscriber for completing the circuit prepared to either collect or refund the coin.

1,459,230. POCKET HOLY-WATER FOUNTAIN. VICTOR G. MATRE, Chicago, Ill., assignor to Matre & Company, Chicago, Ill. Filed Nov. 1, 1921. Serial No. 512,002. 1 Claim. (Cl. 215—1.)



A pocket fountain comprising an elongated, cylindrical receptacle, having an open end, a thimble threaded therein and having a plurality of apertures therethrough, an elongated, cylindrical cap threaded to said receptacle at a point spaced considerably from the end of said receptacle and a yieldable pad in said cap at the closed end thereof, contacting with said thimble and closing said aperture.

1,459,231. LOOSE-LEAF BOOK. LILIAN HENRIETTA MIDDLETON, Wellington, New Zealand. Filed May 16, 1921. Serial No. 469,766. 1 Claim. (Cl. 129—18.)

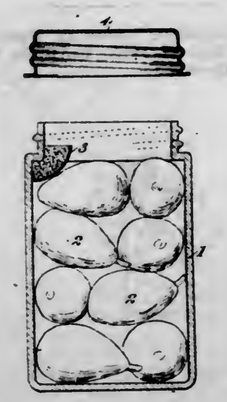


In loose leaf account and like books, the combination with leaves formed with tongues made integrally to extend longitudinally along each of their inner edges from both ends thereof, of a binder formed by three members bound together in book form and the central of which members is made at its free edge with slots extending longitudinally, one from each end, at a short distance in from such edge, and corresponding in width and length with the tongues formed upon the said leaves, substantially as specified.

1,459,232. METHOD OF PRESERVING FOOD PRODUCTS. EDWARD MILANI, San Francisco, Calif. Filed Sept. 6, 1921. Serial No. 498,714. 2 Claims. (Cl. 99—8.)

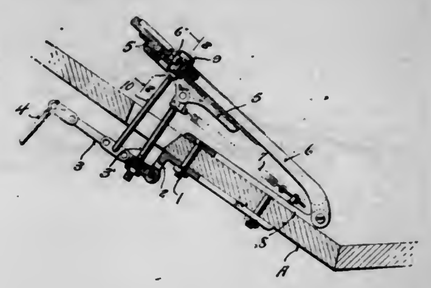
2. The method of storing fresh food products against deterioration for a predetermined period of time, which consists in packing the said product within a container,

then consuming the oxygen of the air within the container by burning alcohol within the container to form therein



an inert gas, then during the consuming of the oxygen applying and hermetically sealing a cover to said container.

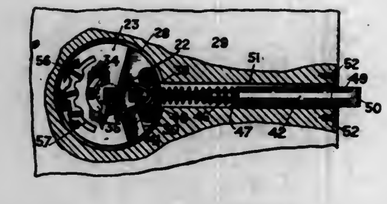
1,459,233. FOOT ACCELERATOR. OTTO A. MOLDENHAUER, Milwaukee, Wis. Filed Sept. 6, 1922. Serial No. 586,500. 3 Claims. (Cl. 74—81.)



1. A foot controlled accelerator comprising a pivoted treadle, a throttle valve actuating spring controlled lever pivoted thereunder, a shoe in slidable union with the treadle, a pressure link carried by the shoe and connected to the lever, the pressure link being extended above the plane of the treadle for initial control of the lever.

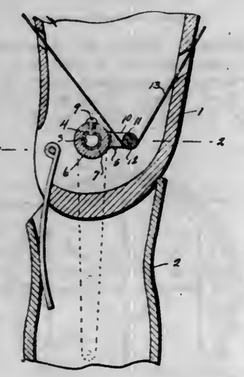
1,459,234. LOCK. ARCHIBALD WILLIAM MORRIS, Russel Pocket, Kuiara, via Cairns, Queensland, Australia. Filed July 10, 1922. Serial No. 573,841. 5 Claims. (Cl. 70—29.)

1. In a lock, a rotatable spindle, a rocking plate fixed thereon, a bolt retracted by the turning of the rocking plate, said rocking plate having means to operate said bolt, and a plurality of locking pins arranged in arcuate formation parallel to the spindle, each of said pins having a cut away portion or waist which is wider in one direction than in the other, and said pins being rotatable by means of a key to present either the nar-



rower or the greater width of their waists to the direction of rotation of the rocking plate to either permit or prevent movement of the latter.

1,459,235. ARTIFICIAL LEG. WILLIAM E. MORRISON and KALLE KORPELAINEN, Harrisburg, Pa., assignors to Harry W. Cooper, Harrisburg, Pa. Filed Jan. 13, 1923. Serial No. 612,498. 2 Claims. (Cl. 8—2.)

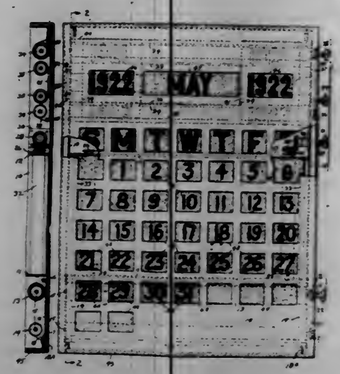


2. In an artificial leg, the combination with a knee bolt pivotally connecting the thigh section and the lower leg section, a lever provided at one end with a sleeve through which the knee bolt extends, a member threaded through the wall of the sleeve, said bolt being provided with an opening to receive said member whereby the lever is positively held at a fixed position upon the knee bolt, and integral arms extending outwardly from the sleeve and spaced in a direction lengthwise of the knee bolt, and a roller supported by and between the arms, said roller being adapted to have operative engagement with a suspender.

1,459,236. PERPETUAL CALENDAR. FRED W. ORTH, Ocean Park, Wash. Filed Aug. 17, 1922. Serial No. 582,507. 2 Claims. (Cl. 40—117.)

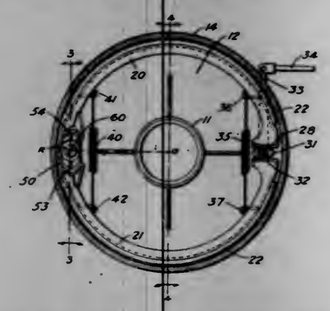
1. A calendar having in combination a moveable web bearing year dates, a second moveable web bearing month names, a third web adapted to be moved horizontally and bearing the four upper tiers of dates in extended lines, a fourth web vertically moveable and of uniform width bearing the dates which would fall in the lower two tiers of dates in all of the possible combinations, a stationary row of characters representing the days of

the week above said date webs, means for adjusting the upper four tiers of dates to the days of the week, and means for adjusting the two lowermost tiers of dates



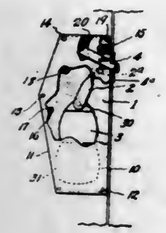
to the four uppermost tiers in a manner that the dates given on the upper four and the lower two tiers shall unite to form a complete month.

1,459,237. BRAKE. HENRY W. MUHLEISEN, Los Angeles, Calif., assignor to W. S. Rush & Co., Los Angeles, Calif., a Partnership composed of W. S. Rush, E. S. Rush, and B. C. Graves. Filed Jan. 30, 1922. Serial No. 532,851. 3 Claims. (Cl. 188—78.)



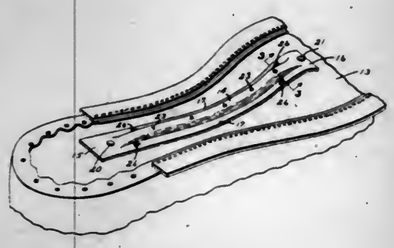
1. In a brake having a drum with an internal cylindrical surface, and an immediately adjacent stationary structure, the combination of: two brake members, each having an outer surface adapted to contact with said internal cylindrical surface of said drum, one end of each of said brake members being flattened to form a flat cam surface parallel to the axis of said drum, and the other end of each of said brake members being grooved to receive a wedge, said two members being respectively right and left handed so that when in place in the drum, the cam surface of one will lie adjacent to the cam surface of the other, the wedge surface of the one then lying adjacent to the wedge surface of the other; a working cam between said cam surfaces; a wedge between said wedge surfaces, said wedge having a central hole and two ends each of wedge shaped form, the apex of each of said wedges being inside a tangent at right angles to a radius of the brake which passes through the center of the cam and which passes through said hole; elastic means for holding said members against said cam and said wedge and away from said inner surface of said drum; and a bolt passing through said hole about which said wedge may pivot, said bolt being also adapted to move said wedge axially to force the wedge ends of said members apart to compensate for wear on the external surface of said members or the internal surface of said drum.

1,459,238. DOORCHECK. JOHN O. NASLIN, Seattle, Wash. Filed Sept. 22, 1919. Serial No. 325,378. 7 Claims. (Cl. 16—83.)



1. In a door check, a pivoted suspender having a fixed striker so shaped and positioned as to be easily engaged by a swinging door, and a bumper fixed to the swinging end of a support jointed to the swinging end of said suspender, whereby said bumper is positioned outside of the swinging path of said door and adapted to swing into its path and check by recoil its closing movement.

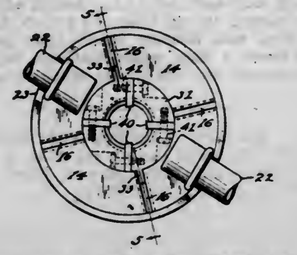
1,459,239. SHANK STIFFENER. WILLIAM H. NICKERSON, Brookline, Mass. Filed Nov. 16, 1922. Serial No. 601,208. 2 Claims. (Cl. 36—76.)



1. A shoe-shank stiffener comprising a sheet metal plate longitudinally arched to conform to the curvature of the shank portions of an outer and an inner sole, and provided with a longitudinal rib projecting from its under side, said stiffener being characterized by spurs projecting downward from the outer surface of the rib, and adapted to engage the outer sole and prevent movement of the stiffener relative to the outer sole.

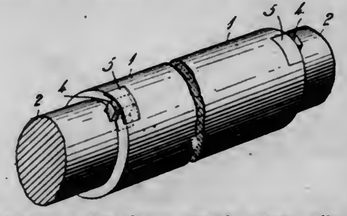
2. A shoe-shank stiffener comprising a sheet metal plate longitudinally arched to conform to the curvature of the shank portions of an outer and an inner sole, and provided with a longitudinal rib projecting from its under side, said stiffener being characterized by spurs projecting downward from the outer surface of the rib, and adapted to engage the outer sole and prevent movement of the stiffener relative to the outer sole and by spurs projecting upward from the upper surface of the stiffener beside the rib, and adapted to engage the inner sole and prevent movement of the stiffener relative to the inner sole.

1,459,240. ADAPTER FOR DIESTOCKS. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Sept. 29, 1921. Serial No. 504,151. 22 Claims. (Cl. 10—120.)



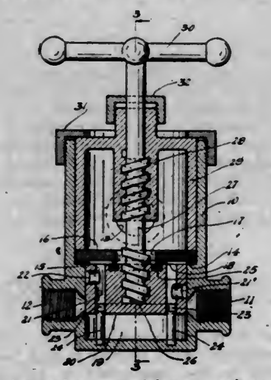
1. In combination, an exterior frame, an interior frame, each adapted to hold separate sets of chasers, and means for holding said frames in engagement with each other, whereby rotation of one frame causes simultaneous rotation of the other.

1,459,241. SLEEVE ADAPTED TO SERVE AS CORE FOR PAPER ROLLS. KARL FREDRIK LENNART NORSTRÖM, Skonvik, Sweden. Filed Mar. 31, 1922. Serial No. 548,472. 2 Claims. (Cl. 242—68.)



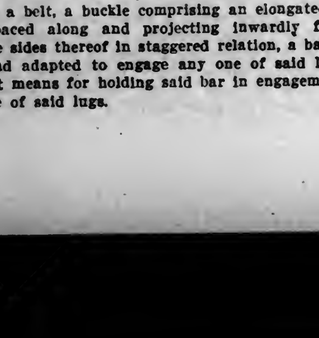
1. A sleeve or sleeve-shaped core for paper rolls having recesses in its ends adapted to engage with projections on the shaft on which the roll is carried, the edges of said recesses being provided with fittings or reinforcements of sheet metal consisting of two U-shaped portions adapted to fit on the edges of the recesses and a strip overlaying said recesses at the circumference of the sleeve and connected with the branches of the U-shaped portions.

1,459,242. VALVE. LEO F. O'FLAHERTY and WILLIAM L. KIRKPATRICK, Elgin, Ill. Filed Mar. 31, 1922. Serial No. 548,333. 5 Claims. (Cl. 277—18.)



1. A mixing valve comprising a casing; a partition dividing said casing into mixing and discharge chambers, said partition having an aperture therein; inlet ducts for said mixing chamber; a mixing valve slidably mounted in said mixing chamber; opposite ports in the periphery of said valve; a circumferential recess in said valve communicating with said ports and said mixing chamber; and means on said valve within said recess and adapted in operative position of the valve to close said aperture.

1,459,243. VALVE. LEO F. O'FLAHERTY and WILLIAM L. KIRKPATRICK, Elgin, Ill. Filed Mar. 31, 1922. Serial No. 548,334. 10 Claims. (Cl. 277—18.)



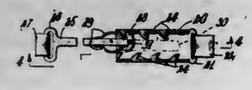
1. A mixing device comprising a casing; a partition dividing said casing into communicating mixing and discharge chambers; a mixing valve in said mixing chamber having an angular socket therein; a stem mounted for sliding movement in said socket, and adapted to import rotation thereto; and a sealing valve in said discharge chamber mounted on and movable with said stem.

1,459,244. MEANS FOR MAKING PNEUMATIC TIRES. JOHN F. PALMER, St. Joseph, Mich. Filed Apr. 8, 1920. Serial No. 372,126. 6 Claims. (Cl. 154—9.)



1. In combination, a mandrel over which a tube may be placed, and a freely rollable ring member for compacting tube structures on said mandrel.

1,459,245. LIFE-SAVING BELT. WAWZYNIEC PARADOWSKI, Toledo, Ohio. Filed Nov. 2, 1922. Serial No. 598,485. 2 Claims. (Cl. 24—206.)



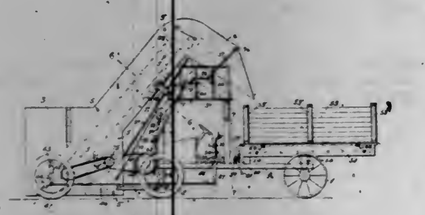
1. In a belt, a buckle comprising an elongated casing, lugs spaced along and projecting inwardly from the opposite sides thereof in staggered relation, a bar having a T-head adapted to engage any one of said lugs, and resilient means for holding said bar in engagement with any one of said lugs.

1,459,246. VERTICAL-ELEVATING APPARATUS. GEORGE D. PARKER, Riverside, Calif., assignor to Stebler Parker Co., Riverside, Calif., a Corporation of California. Filed May 8, 1922. Serial No. 559,244. 16 Claims. (Cl. 198—156.)



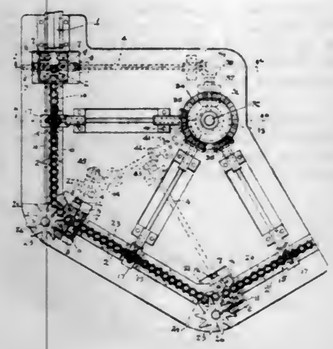
1. An elevating and dumping apparatus comprising a material receiving station consisting of a plurality of substantially horizontally disposed parallel spaced material receiving and supporting fingers, means for yieldably mounting the same and providing a stop at one end for arresting the movement of the material thereon, means in advance of the free ends of said fingers for delivering material to be elevated thereonto, a tray for removing material from said station and for elevating the same, said tray comprising a plurality of parallel spaced arms, adapted to pass upwardly between said supporting fingers, said arms being upwardly extended at their rear ends to provide a stop, means for mounting said arms, and means for elevating said tray and for tilting the same forwardly to discharge the material therefrom.

1,459,247. MACHINE FOR CUTTING CANE AND SIMILAR PLANTS. JOSÉ VILAR Y PAZOS, Trinidad, Cuba. Filed Feb. 18, 1922. Serial No. 537,465. 3 Claims. (Cl. 56—17.)



3. A machine for cutting cane and similar plants, comprising a motor truck, a frame swingingly mounted in front of said truck, horizontal circular indented knives mounted in said frame and adapted to cut the cane, triangular indented knives fixed to each side of the frame and arranged in front of the horizontal knives, two wheels mounted in short shafts at each side of the swinging frame, levers on said shafts and each having one end articulated to a side of the frame, bars connected to the said levers, a horizontal shaft rotatably mounted at the front part of the truck and having arms to which said bars are connected to turn said shaft, means to secure said shaft and arms at any desired adjustment, a knife for topping the cut cane, and a knife for severing the cut cane, both mounted on the upper part of the swinging frame, a chute which discharges the cut cane, and a receptacle into which said chute discharges.

1,459,248. MILLING MACHINE FOR CONTINUOUS MILLING. JAMES F. PATTON and JOHN E. MCALLISTER, Cleveland, Ohio. Filed May 12, 1919. Serial No. 296,390. 40 Claims. (Cl. 10—72.)



1. A chute containing nuts, a feed wheel receiving the nuts from the chute, removable teeth in the wheel to engage the nuts, a guide plate extending over the wheel and between the teeth, a channel supporting the guide plate through which the nuts are forced by the feed wheel, retaining plates loosely holding the nuts in the channel, pressure bars supported adjacent the channel to hold a nut, a cutter projecting between the pressure bars to cut the nuts, a spacing bar in the end of the channel, a transfer wheel adjacent the spacing bar engaging the nuts to turn them, a second channel at an angle to the first channel, a second feed wheel in line with the second channel to receive the nuts from the transfer wheel and feed them through the second channel, retaining plates loosely holding nuts in the second channel, pressure bars supported adjacent the second channel to hold a nut, a cutter projecting between the pressure bars to cut the nuts, a spacing bar in the end of the second channel, a transfer wheel adjacent the last mentioned spacing bar engaging the nuts to turn them, a third channel at an angle to the first two channels, a third feed wheel in line with the third channel to receive the nuts from the transfer wheel and feed them through the third channel, retaining plates loosely holding nuts in the third channel, pressure bars supported adjacent the third channel to hold a nut and a cutter projecting between the pressure bars to cut the nuts.

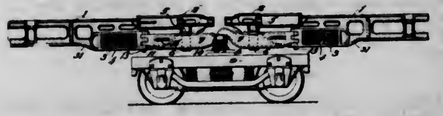
1,459,249. LAMP STAND. EARL G. PERKINS, Youngstown, Ohio. Filed July 12, 1921. Serial No. 484,022. 7 Claims. (Cl. 248—6.)

1. A device of the character described, comprising a base, two standards rigidly secured to said base, a yoke rigidly secured to the upper ends of said standards, sheaves mounted in said yoke, a movable standard slidably mounted through a central opening in said yoke and carrying a head-block at its lower end, a sheave mounted in said head-block, a counter-weight slidably



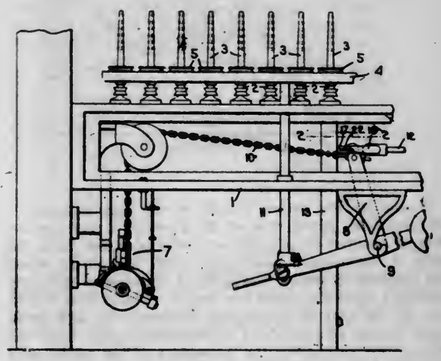
mounted upon said first mentioned standards, and flexible connections between said counter-weight and said head-block.

1,459,250. ARTICULATED CAR. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 28, 1922. Serial No. 609,521. 11 Claims. (Cl. 105—4.)



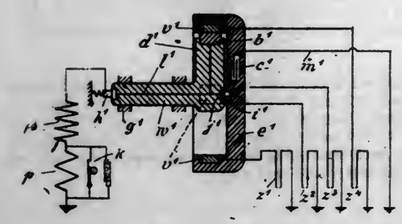
5. In combination with a car truck provided with an upwardly facing center plate, a car body, a slidable draw bar mounted on said car body and extending beyond the same and provided with a downwardly facing center plate adapted to fit and rest upon said truck center plate.

1,459,251. SPINNING FRAME. CLARENCE A. PIERCE, Lowell, Mass. Filed June 3, 1921. Serial No. 474 605. 4 Claims. (Cl. 242—43.5.)



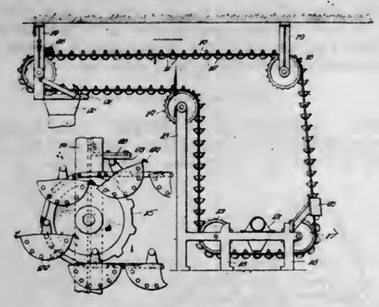
1. In a spinning frame, the combination with spindles adapted to support bobbins, of a ring rail carrying spinning rings, a stop device having a pivoted stop arm which in one position is operative to limit the downward movement of the ring rail during the spinning operation and in another position permits the ring rail to drop lower during the doffing of the bobbins.

1,459,252. IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. GOTTFRIED PLUMM, Berlin-Lichterfelde, Germany, assignor to Moritz Polak, Groningen, Netherlands. Filed July 22, 1920. Serial No. 398,305. 1 Claim. (Cl. 123—148.)



In an ignition apparatus for internal combustion engines, the combination, with a source of electric energy, the spark plugs, and a distributer having a body carrying terminals connected with the spark plug and a brush connected with the source of electric energy, of a condenser embedded within said body and connected in shunt around said source of electric energy and with one terminal to a part intermediate said source and distributer, the capacity of the condenser being such that it is adapted to increase the intensity of the discharge at the plugs.

1,459,253. CONVEYING APPARATUS. CLARENCE H. PLUMMER, Kewaunee, Wis. Filed Nov. 15, 1920. Serial No. 424,030. 6 Claims. (Cl. 198—149.)



1. In a conveyor system, an endless chain, overlapping buckets carried thereby, a sprocket-like member for propelling said chain, said buckets travelling in unlocked relation toward said member, means for tilting said buckets, and means on said member to hold said buckets in tilted position during their travel thereabout whereby they are positively locked in overlapping relation upon leaving said member.

1,459,254. DRIER. WILLIAM E. PRINDLE, Columbus, Ohio. Filed Sept. 18, 1919. Serial No. 324,492. 3 Claims. (Cl. 34—6.)

1. A rotary drier comprising an outer cylinder, means for supporting and rotating said cylinder, delivery and

discharge mechanisms cooperative with the ends of said cylinder for effecting the passage of material to be dried therethrough, a longitudinally extending inner cylinder situated axially within said outer cylinder and formed to pass completely through and beyond the latter, a furnace for introducing heat into said inner cylinder and a



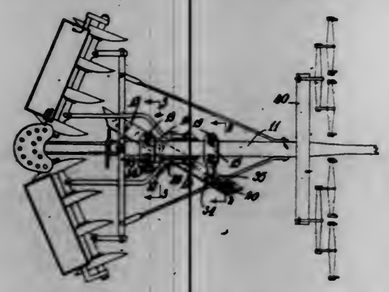
tube situated within one end of said inner cylinder and in spaced relation from the latter, said tube being in free communication with said furnace and with the interior of said inner cylinder and means for introducing air into said inner cylinder so as to reduce the heat between the latter and said tube.

1,459,255. WINDOW CLEANER. HAROLD AUGUSTUS PYKE, Grafton, Auckland, New Zealand. Filed Mar. 29, 1920. Serial No. 369,937. 1 Claim. (Cl. 15—232.)



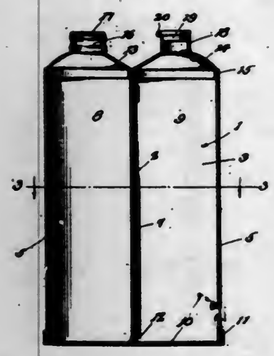
A cleaner for windows and the like, comprising a back, a pivot rod extending across the back, in spaced relation thereto and having its ends connected thereto, clamps pivotally mounted on said rod, a spring on said rod and active on said clamps to cause fabric to be held between said back and clamps, and a handle having spaced elements detachably mounted on said pivot rod.

1,459,256. COMBINATION COTTON CULTIVATOR. ANDRES RAMIREZ, Guadalupe, Tex. Filed May 15, 1922. Serial No. 561,083. 3 Claims. (Cl. 55—60.)



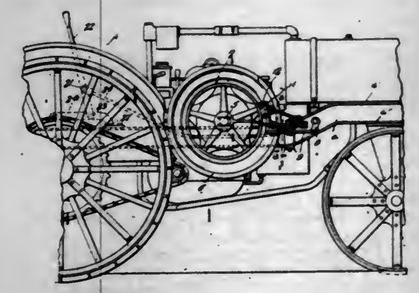
2. An agricultural implement of the type set forth comprising a centre pole, a pair of transverse arms fixed to said pole and spaced longitudinally thereof, rods carried by the outer ends of said arms and adapted for vertical adjustment, and an obliquely arranged knife supported by said rods.

1,459,257. MULTIPLE-COMPARTMENT CONTAINER. SCOTT N. REGER, Berryburg, W. Va., assignor of one-half to Robert V. Reger, Clarksburg, W. Va. Filed Jan. 11, 1921. Serial No. 436,540. 3 Claims. (Cl. 220—20.)



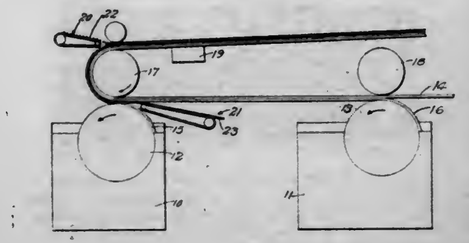
3. A multiple compartment container including a body comprising as an integral component part, a partition wall and enclosing wall sections integrally formed with the vertical edges of the partition wall and each extending from the edge with which it forms a juncture to the opposite edge of the said partition wall and being there provided with a flange united to the respective face of the said partition wall, a bottom united to the lower edges of the enclosing and partition walls, and a top for the body.

1,459,258. COMBINED CLUTCH ACTUATOR AND BRAKE. WILLIAM F. REINEKE, Lakefield, Minn. Filed Nov. 14, 1922. Serial No. 600,802. 1 Claim. (Cl. 192—13.)



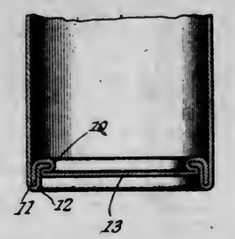
In combination with a tractor of the type including a side projecting power take off shaft having a pulley wheel thereon adapted to be clutched and unclutched from the shaft, a brake drum associated with the pulley wheel and adapted to rotate therewith, a brake shoe pivotally supported upon the outer free end of an arm that is carried by the tractor frame and adjacent the said brake drum, means positioned at a convenient point upon the tractor for controlling the movement of the brake shoe and means operable simultaneously with the operation of the brake shoe for clutching and unclutching the said pulley from the said power take off shaft.

1,459,259. COMPOSITE SHEET MATERIAL. ORLO D. RICHARDSON, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 532,642. 7 Claims. (Cl. 92—40.)



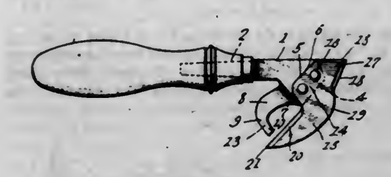
1. An apparatus for forming a composite sheet comprising means for continuously forming a plastic film of pulp, means for applying fibre to said plastic film substantially crosswise thereof, and means for applying fibre to said plastic film substantially lengthwise thereof.

1,459,260. PAPER CAN. LEWIS D. ROBERTS, Washington, D. C. Filed July 27, 1921. Serial No. 488,000. 2 Claims. (Cl. 229—5.6.)



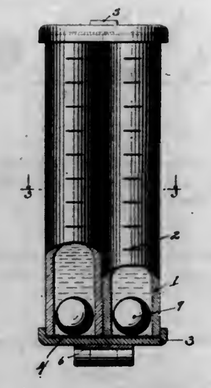
1. A paper can or container including a wall having an inturned end forming an annular channel, a head insertable into said inturned end portion, a wall extending from the periphery of the head, an annular flange integral with the wall and spaced therefrom, said flange extending into and filling the channel and part of the inturned portion extending into and filling the space between the wall of the head and its flange, the inturned portion and the flange and wall being inturned and constituting an annular rib lapping one face of the head at the periphery thereof.

1,459,261. CAN OPENER. LEWIS D. ROBERTS, Washington, D. C. Filed June 30, 1922. Serial No. 571,021. 5 Claims. (Cl. 30—3.)



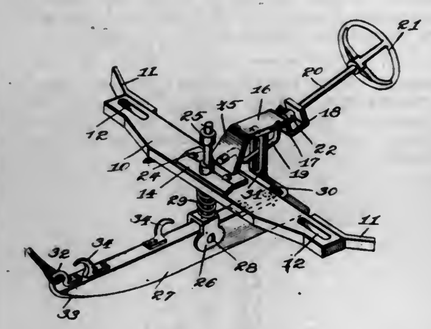
1. A can opener including a body, a handle and a blade extending from the body, the cutting edge of the blade being disposed at an acute angle to the longitudinal axis of the handle, a finger extending from the body and into the angle between the handle and cutting edge, said finger having a transverse fulcrum edge at its free end, and side lugs extending from the ends of said fulcrum edge at angles thereto.

1,459,262. VISCOSIMETER. CHARLES R. RODE, Lima, Ohio. Filed Nov. 22, 1920. Serial No. 425,697. 3 Claims. (Cl. 265—11.)



1. In a meter of the class described, the combination of a pair of like tubes arranged in a common holder with their axes parallel, one containing a fluid of a given standard viscosity, the other adapted to contain the fluid to be tested, and an identical non-buoyant object in each tube, whereby the relative viscosity of the fluids may be determined by the relative times of transit of said objects through said tubes.

1,459,263. STEERING ATTACHMENT FOR SLEDS. WILBUR I. ROGERS, Boston, Mass. Filed Aug. 12, 1922. Serial No. 581,467. 5 Claims. (Cl. 280—21.)



2. In a steering attachment for sleds, a cross bar having longitudinally extending slots at opposite ends, angular bolts disposed in said slots, the outer ends of the bolts being adapted to be passed through the runners of a sled, a steering runner mounted beneath the cross bar and upon the same for movement in a vertical plane and oscillation in a horizotnal plane, and manually operable means mounted upon the cross bar and engaging the runner rearward of its pivot whereby the runner may be oscillated in a horizontal plane.

1,459,264. PROCESS OF MAKING WALL BOARD. ORVILLE L. ROUTT, Los Angeles, Calif. Filed June 12, 1920. Serial No. 388,640. 5 Claims. (Cl. 154—2.)

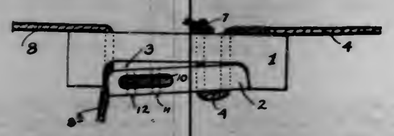
5. The herein described process of forming wall board which consists in advancing two sheets of paper in close proximity to each other one of said sheets having folded portions at opposite sides to form the opposite edges of

the wall board, supplying a coating of dry powdered adhesive matter to the inner surface of each sheet, and



then rolling therebetween a mass of plastic substance to which said sheets are secured by said adhesive matter, substantially as described.

1,459,265. ROPE-JOINING CLAMP. EDWARD SAUNDRY, New Haven, Conn. Filed Oct. 6, 1922. Serial No. 592,699. 4 Claims. (Cl. 24—115.)



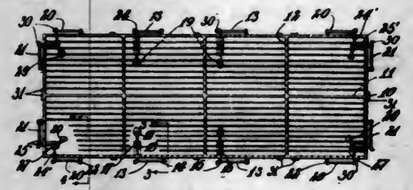
1. In a rope-joining clamp, the combination of the following elements, to-wit: two clamping members of unequal length—the longer member being provided with a recess in its side, which is adapted to receive the shorter member—said shorter member being adapted to clamp one end of a rope against one end of said recess; a perforation in the longer member which is adapted to receive said rope to guide it into clamping position; a hinge and clamping element formed by the other rope to be joined—said rope passing twice through both of said clamping members whereby, on putting said rope under tension, said shorter member is firmly drawn into said recess to clamp the opposite end of said rope.

1,459,266. COVER FOR CRACKER CANS AND SIMILAR CONTAINERS. HARRY SEBELL, Somerville, Mass., assignor of one-half to Frank G. Davison, Cambridge, Mass. Filed July 3, 1922. Serial No. 572,728. 3 Claims. (Cl. 220—82.)



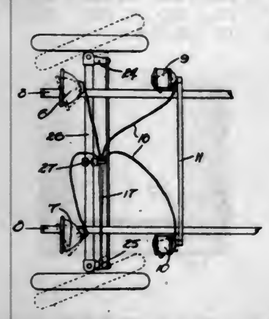
1. A hinged cover for cans and the like having a sight opening surrounded by a glass-receiving ledge and having an annular depending flange surrounding the ledge, a piece of glass resting on the ledge and a U-shaped glass-retaining wire having the ends of its legs detachably secured to the cover adjacent its hinged edge, the bridge portion of the U having a part extending through the depending flange on the opposite side of the cover and furnishing a thumb piece by which the cover may be raised.

1,459,267. ANIMAL TRAP. MICHAEL SHUTOFF, Freehold, N. J. Filed Feb. 6, 1922. Serial No. 534,288. 4 Claims. (Cl. 43—61.)



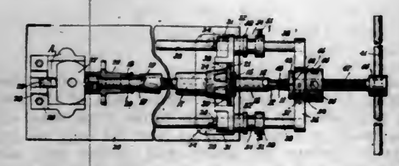
1. In a trap, a pair of separate doors, a rod having a bait holding device at one end, a ball and socket joint mounting for said rod between its ends, and door holding members adapted to press against the other end of said rod longitudinally of the latter.

1,459,268. DIRIGIBLE HEADLIGHT. CECIL CHARLES SMITH, Sydney, New South Wales, Australia. Filed Mar. 21, 1921. Serial No. 454,187. 1 Claim. (Cl. 240—62.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a dirigible headlight, a casing having means to attach the same to a member of an automobile, a lamp-carrying shaft mounted in the said casing for rotation and provided with a pulley, a Bowden wire having its inner member extended through an opening in the casing and attached at one end to said pulley, the outer member of said Bowden wire near said end, bearing against said casing, means to attach the opposite end of the inner member of the Bowden wire to a steering arm, and a clamp for attachment to a front axle and forming a guide for the inner member of the Bowden wire, the outer member of the Bowden wire bearing against said clamp, and a spring attached to the pulley and to the casing to turn the pulley and shaft in one direction.

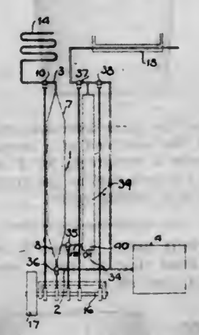
1,459,269. METHOD OF AND APPARATUS FOR REMOVING AND REPLACING BEARING SLEEVES OF PROPELLER SHAFTS. LOUIS ULLMAN, New York, N. Y. Filed Dec. 1, 1921. Serial No. 519,039. 14 Claims. (Cl. 29—88.2.)



1. The herein described method of freeing a bearing sleeve and a propeller shaft encased in a torque tube of

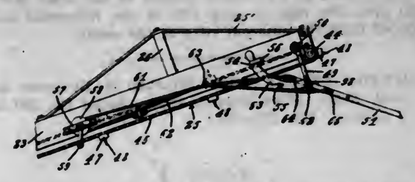
the Ford type, which method consists in driving the shaft through a space between the shaft and tube, the movement of said shaft being relative to the sleeve and torque tube.

1,459,270. METHOD OF AND APPARATUS FOR HEAT DIFFERENTIATION. RUDOLPH VUILLEUMIER, New Rochelle, N. Y., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Original application filed May 14, 1914, Serial No. 838,475. Divided and this application filed Sept. 30, 1919. Serial No. 327,413. 19 Claims. (Cl. 62—170.)



1. Apparatus of the character described, comprising, in combination, a chamber, a regenerator, a source of fluid, means for admitting fluid from said source through said regenerator into said chamber, means for admitting fluid directly from said source into said chamber, means for abstracting fluid from said chamber, and means for abstracting the remaining fluid from said chamber through said regenerator.

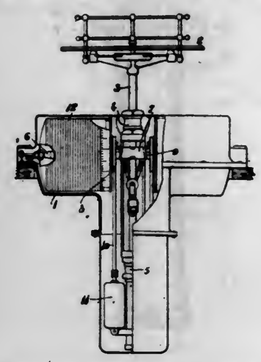
1,459,271. WHEAT STACKER. HARRY F. VON ENGELN, Ludell, Kans. Original application filed June 1, 1918, Serial No. 237,741. Divided and this application filed Mar. 8, 1920. Serial No. 363,958. 1 Claim. (Cl. 198—73.)



In a device of the class described, a support, a keeper on the side of the support, a hanger pivoted to the side of the support, a rigid brace detachably interengaged with the keeper, a chute, a pivot member uniting one end of the brace and the intermediate portion of the chute with the hanger, a drum journaled on the side of the support, flexible elements trained in opposite directions about the drum and connected with the chute on opposite sides of the pivot member, and a fair leader on the side of the support, the flexible elements passing through the fair leader, and the fair leader serving to hold the flexible elements clear of the brace.

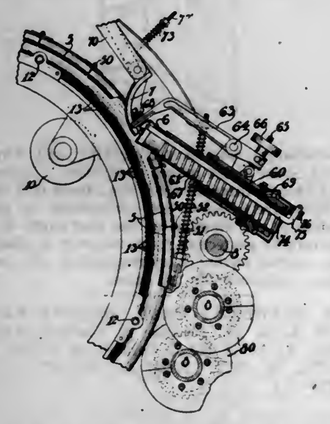
1,459,272. AUTOMATIC BALANCE-WEIGHING APPARATUS. GUSTAF VON POST, New York, N. Y. Filed Aug. 28, 1920. Serial No. 406,599. 3 Claims. (Cl. 265—70.)

1. In automatic balance weighing apparatus, a rotatable shaft, a pair of flexible strips connected to the shaft and extending in oblique directions that approach to be wound around the shaft obliquely in different direction to prevent the parts of the strips from touching each other, a vertical shaft, bearings to guide the shaft for vertical movement, means connecting said shaft with



adjacent convergent portions of said strips, a goods receiver on said shaft, another flexible strip, a cam on the shaft receiving said strip and having a surface of continuing excentricity to prevent said other strip from winding on itself, and a weight carried thereby.

1,459,273. FISH SLITTING AND CLEANING MACHINE. EDWARD HUGH WAUGH, Seattle, Wash., assignor to Smith Cannery Machines Co., Seattle, Wash., a Corporation of Washington. Filed Oct. 18, 1921. Serial No. 508,517. 44 Claims. (Cl. 17—10.)

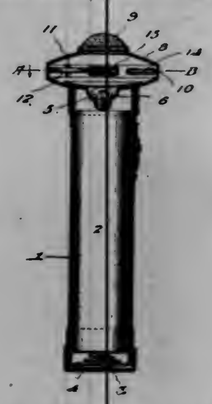


1. In a fish dressing machine, a movable carrier, fish holding means comprising pairs of alined pins mounted for longitudinal reciprocation towards and from each other to engage the fish, means for automatically reciprocating said pins and a spring between one pin of the pair and its reciprocating member.

1,459,274. ELECTRIC POCKET LAMP WITH SIGNAL PANE AND COMPASS. FUKUTARO YOKOYAMA, Tokyo, Japan. Filed Dec. 19, 1919. Serial No. 346,001. 1 Claim. (Cl. 240—8.4.)

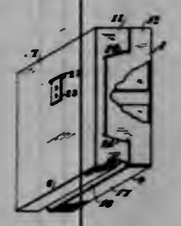
In an electric flashlight having a casing, a lens, and a bulb spaced from the lens, a signaling element and adjustable supporting means for said signaling element, said supporting means enabling said signaling element to

be arranged between the bulb and lens or removed from between the bulb and lens at will, and comprising a



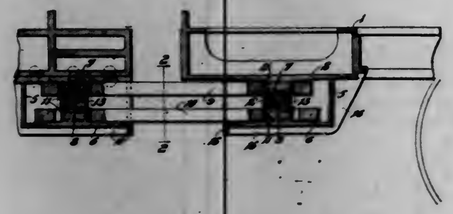
spring having an arcuate portion, and a finger piece shiftably mounted on the casing and having a member having sliding contact with the inner side of said arcuate portion of said spring.

1,459,275. CARTON FOR FOLDED TISSUE PAPER. LELAND J. ARMS, Berkeley, Calif. Filed Feb. 20, 1922. Serial No. 537,945. 1 Claim. (Cl. 229—17.)



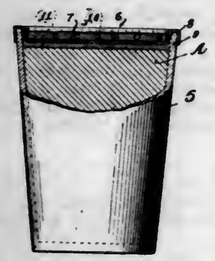
In combination, means for packing and dispensing interfolded tissue toilet papers comprising a carton having a slot therein through which the papers may be withdrawn successively, transverse extensions of the slot for facilitating the starting of the first strip of paper, and a permanent protective frame adapted to slidably receive the carton having a corresponding slot and corresponding extensions for the same.

1,459,276. DRAWBAR POCKET. EDMUND S. BECKETTE, East St. Louis, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 21, 1922. Serial No. 583,233. 9 Claims. (Cl. 213—3.)



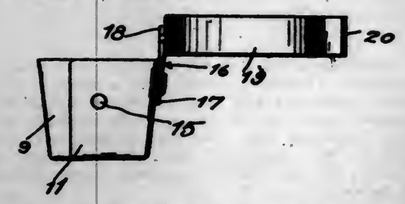
2. In a drawbar pocket, an upper wall, a lower wall, opposed bosses on said walls, each adapted to be engaged by a drawbar, and means for maintaining engagement of said bosses by drawbars positioned in said pocket.

1,459,277. CLOSURE FOR CONTAINERS. DAVID BLOOM, Berkeley, Calif., assignor of one-fourth to William M. Allen, San Francisco, Calif. Filed June 12, 1922. Serial No. 567,669. 5 Claims. (Cl. 215—38.)



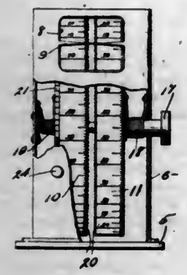
1. A closure of the class described, embodying a perforated insert for the open end of a container, said insert adapted to provide a receptacle for a paraffin like sealing agent with the perforations permitting the insert to be embedded in said sealing agent.

1,459,278. MATCH BOX. ALBERT Z. BROOK, Mountain Grove, Mo. Filed Mar. 14, 1921. Serial No. 452,009. 2 Claims. (Cl. 206—30.)



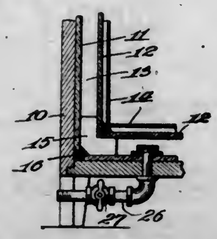
1. A match box embodying a resilient U-shaped clamp adapted to embrace and frictionally engage a support, an arm secured to the bight portion of the clamp and extending beyond the lower edge of the clamp, and an elongated receptacle, one side portion of the receptacle being secured at its central portion to the outer face of the arm, the edge of said side of the receptacle being spaced from the adjacent edge of the clamp.

1,459,279. CALCULATOR. WILFRED H. BUTCHER, Burwell, Nebr. Filed June 7, 1920. Serial No. 387,007. 3 Claims. (Cl. 235—86.)



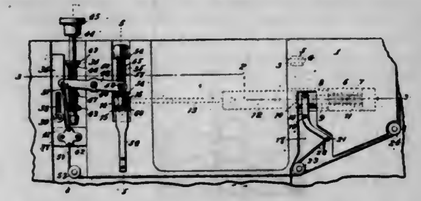
1. A calculator comprising spring controlled rotatable count and tally wheels, clutch means between the wheels whereby they may be rotated in unison, means for releasably retaining the tally wheels in a set position, and means for causing disengagement of the count wheel and independent return movement thereof.

1,459,280. REFRIGERATOR. CALVIN G. CARD, Los Angeles, Calif. Filed Mar. 6, 1922. Serial No. 541,575. 3 Claims. (Cl. 217—5.)



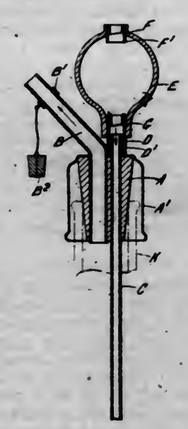
1. A refrigerator having vacuum chambers formed in its walls, sections of glass lining said vacuum chambers and L-shaped spacing members arranged between said sections of glass in the corners of said vacuum chambers.

1,459,281. AUTOMOBILE DOOR. JACOB UTLEY CARTER, Cardston, Alberta, Canada. Filed Aug. 10, 1920. Serial No. 402,720. 18 Claims. (Cl. 292—164.)



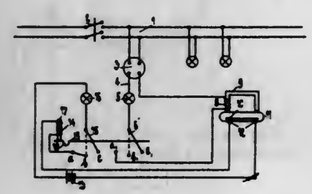
1. In combination with an automobile body having a door hinged thereto, a lock for securing the door, means adjacent the door for releasing the lock, means for releasing the lock from a distant point, and means for holding the lock in released position.

1,459,282. APPARATUS FOR EJECTING, ACCELERATING, OR CONTROLLING LIQUID DISCHARGE FROM BOTTLES AND THE LIKE. GILBERT CLARK, Morpeth, England. Filed Dec. 8, 1920. Serial No. 429,282. 5 Claims. (Cl. 215—3.)



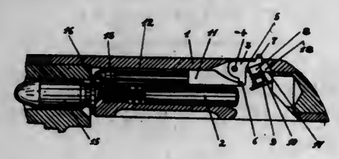
1. Means for accelerating delivery of viscous liquid from a bottle or the like, comprising in one fitting or unit for attachment to the bottle, a cork or stopper to fit the bottle having fitted therethrough two tubes, one for the delivery of liquid from the bottle, and the other extending below the surface of the liquid at one end, and means for delivery of air under pressure to the bottom of the bottle by the longer tube.

1,459,283. ELECTRIC EMERGENCY-LIGHTING INSTALLATION. PIETER DAS, Delft, Netherlands. Filed Aug. 2, 1921. Serial No. 489,212. 11 Claims. (Cl. 171—97.)



1. In an emergency lighting installation, a main circuit, an emergency circuit, circuit controlling means operating to close the emergency circuit in advance of the closure of the main circuit, and means responsive to the electrical energization of the main circuit to automatically open the emergency circuit.

1,459,284. SIGHT FOR FIREARMS. JOSEPH DECLAYE, Liege, Belgium. Filed Mar. 25, 1921. Serial No. 455,566. 3 Claims. (Cl. 42—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



3. The combination with a fire-arm having a movable breech, of a bell-crank lever pivotally mounted in a slot in said breech, one arm of said lever extending substantially parallel to the axis of the barrel and carrying a sighting point, the other arm of said lever extending into the interior of the breech in a direction substantially at right angles to the axis of the barrel, a rod slidably mounted in said breech and having one end in contact with the second-mentioned arm of said lever and the other end normally projecting from the front face of the breech, and a spring operatively connected with the lever and maintaining the sighting point withdrawn within the breech when the cartridge chamber of the fire-arm is empty.

1,459,285. MEANS FOR SECURING THE BARRELS OF AUTOMATIC PISTOLS HAVING REMOVABLE BARRELS. JOSEPH DECLAYE, Liege, Belgium. Filed Mar. 25, 1921. Serial No. 455,567. 3 Claims. (Cl. 42—3.)

1. An automatic pistol having a fixed barrel provided with segmental ribs adapted to engage with and disen-

gage from the frame by a rotary movement and comprising means controlled by the trigger for preventing



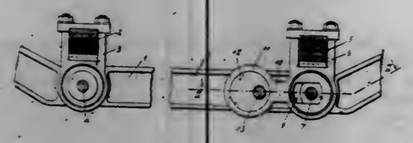
the barrel from turning during the recoil as long as the trigger is acted upon for firing.

1,459,286. MOVABLE BREECH FOR AUTOMATIC PISTOLS. JOSEPH DECLAYE, Liege, Belgium. Filed June 16, 1921. Serial No. 478,068. 4 Claims. (Cl. 42—3.)



2. A movable breech slide for automatic pistols in which the return spring surrounds the barrel comprising a sleeve provided with a flange on which the end of the return spring bears, means for fastening said sleeve to the front part of the breech slide, and two facets provided on the exterior of the sleeve and permitting of an angular movement being readily given to it.

1,459,287. SUSPENSION OF MOTOR CARS AND OTHER VEHICLES. ANTONIO DIAZ, Barcelona, Spain, assignor to José F. Del Castillo, Barcelona, Spain. Filed Feb. 10, 1922. Serial No. 535,666. 3 Claims. (Cl. 280—112.)



1. In the spring suspension of motor cars and other vehicles, clamps for receiving springs, said clamps being rotatably mounted on the axle, by means of pins, one of the clamps on an axle being provided with a slot for receiving its pin, whereby the clamp is simultaneously rotatable and slidable on the pin.

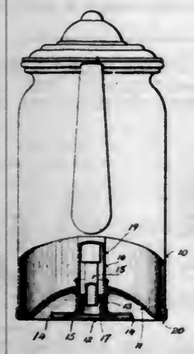
1,459,288. FIRE GRATE FOR LOCOMOTIVES. JAMES G. ELLIS, St. Lambert, and GEORGE WALTER MINGIE, Montreal, Quebec, Canada. Filed Mar. 15, 1920. Serial No. 366,064. 8 Claims. (Cl. 126—176.)

3. A grate bar adapted to be shaken, provided with a plurality of spaced-apart identically formed holes extending therethrough from the top to the bottom of the bar, said holes constituting draft openings and shaker arm



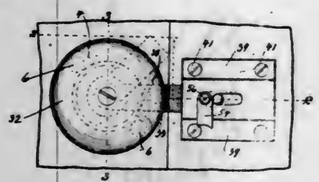
receiving openings, in combination with a shaker arm comprising a head portion adapted to fit within any one of said holes.

1,459,289. PERCOLATOR. JOSEPH KOENIG and WILLIAM H. ELLIS, Two Rivers, Wis. Filed Apr. 4, 1922. Serial No. 549,427. 1 Claim. (Cl. 53—3.)



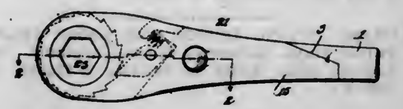
In a coffee percolator the combination of a bottom having a raised center, a tube of small diameter rigidly affixed to said center, and an enlarged section at the base of said tube, said bottom having a portion flush with said base, a second tube secured to and extending upwardly from said first mentioned tube and having an opening therein spaced above said first mentioned tube, and a third tube positioned within and spaced from the wall of said second tube and projecting downwardly into said first tube.

1,459,290. LOCK. CHARLES A. HABENICHT, Modesto, Calif. Filed May 29, 1922. Serial. No. 564,424. 6 Claims. (Cl. 20—14.)



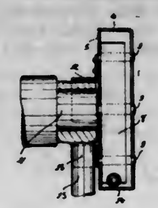
1. A combination latch and lock for a door or the like, comprising a cylindrical housing adapted to be inserted in the door, a plug rotatable therein having a threaded radial recess therein, a latch comprising a threaded base adapted to engage said recess and a stem extending through the housing for preventing longitudinal motion of the plug relative to the housing, a slot in the housing allowing of limited revolving motion of the latch relative to the housing, a nut threadedly engaging the inner end of the plug bearing against the housing and means for locking the plug to the housing adapted to be actuated by a key from the outside of the door.

1,459,291. WRENCH. LEWIS L. HALL, Clendenin, W. Va. Filed June 28, 1922. Serial No. 571,396. 1 Claim. (Cl. 81—60.)



A wrench comprising a handle, an offset apertured head disposed at the forward end of the handle, the handle being reduced in thickness between the head at a point short of the rear end thereof, defining a transversely extending shoulder and a diagonally extending shoulder, an upstanding lug formed on the inner surface of the head extending beyond the outer face of the reduced portion, an elongated cover plate arranged to engage the reduced portion and having its rear end provided with a transverse and a diagonally extending edge for engaging the shoulders, an offset apertured head formed on the forward end of the plate arranged to the overlie the first-mentioned head, a socket wrench head rotatably carried by the heads, a pivoted pawl disposed between the heads, a spring engaging the pawl and lug for normally urging the pawl in engagement with the wrench head, means securing the cover plate on the handle, and an inwardly extending finger formed on the cover plate for engagement with the lug, as and for the purpose specified.

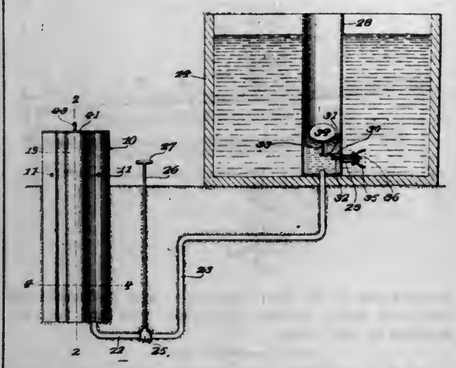
1,459,292. SPEED INDICATOR. ALFRED MÉLOTTE, Remicourt, Belgium. Filed June 26, 1922. Serial No. 570,900. 4 Claims. (Cl. 116—74.)



4. An apparatus for indicating speed by means of sound, comprising a rotary shaft; a hollow resonant body mounted thereon; a hollow non-resonant body within the interior of the resonant body fixed to said shaft to rotate therewith and having at least one blade and one outlet opening; and an impact body freely-rotatable within the non-resonant body and adapted to be lifted up by said blade and then to be dropped therefrom when the blade reaches a certain angular position, and to escape through said opening and fall against the resonant body when said shaft and said non-resonant body are rotating at speeds lower than a predetermined speed.

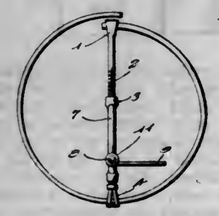
1,459,293. STOCK-WATERING DEVICE. ERNEST A. POWELL, Rawson, Ohio. Filed Feb. 24, 1922. Serial No. 538,933. 2 Claims. (Cl. 119—73.)

1. A stock watering device comprising a casing partially sunken in the ground with vent openings in the portion above the surface of the ground, the casing having a longitudinal offset chamber in one side with a longitudinal opening establishing communication with the casing, a water receptacle seated within the upper end of the casing and having its walls spaced from the walls of the casing, a water conduit extending longitudinally through the casing and into the bottom of the receptacle, a casing disposed in and filling the said chamber and having open-



ings in the upper and lower portions of its inner wall leading into the casing, and a heating means in the bottom of the second casing.

1,459,294. AUTOMOBILE RIM TOOL. JAMES REED and GEORGE WASHINGTON, New Orleans, La. Filed Oct. 26, 1922. Serial No. 597,107. 1 Claim. (Cl. 157—1.)

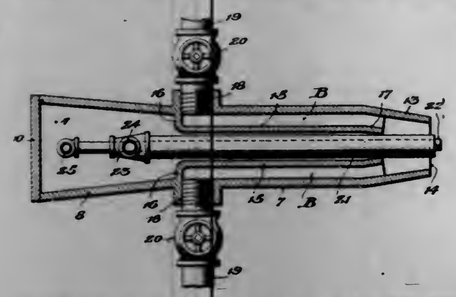


A rim tool comprising a turn buckle having a threaded opening in one end, a rim-engaging hook having swiveled connection with the other end of said turn buckle, a rim-engaging hook having a threaded stem passing through the threaded opening of said turn buckle, the side arms of the turn buckle being provided with alined openings adjacent the end portions of the turn buckle having the hook swiveled thereto, a turning lever formed of a flat strip of a width for fitting between the side bars of the turn buckle, said strip having one end portion bent upon itself to form an offset bearing eye for fitting between the side bars of the turn buckle, and a pivot pin passing through the alined openings of the turn buckle and through said eye to pivotally mount the lever for swinging movement longitudinally of the turn buckle from an operative position to an inoperative position on an axis just sufficiently offset to permit the lever to fit within the turnbuckle parallel to the threaded stem.

1,459,295. BURNER. THOMAS F. SMITH, Tulsa, Okla. Filed Mar. 24, 1922. Serial No. 546,483. 4 Claims. (Cl. 158—75.)

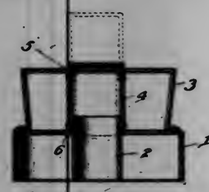
1. A burner comprising an elongated casing having a nozzle portion with a converging wall and a chamber in its opposite end portion and containing oppositely-disposed gas-chambers having supply-ports and arranged to discharge into the nozzle portion, a tube extending from said end chamber through the space between said gas-

chambers to and arranged to discharge at the nozzle end of the burner, another tube extending from said chamber



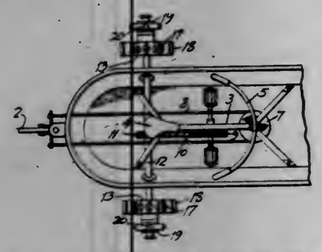
through and to the discharge end of said first-mentioned tube, and means whereby propellant fluid and fuel are supplied to said tubes.

1,459,296. CUTTER. RUSSELL H. STAMBAUGH, Galesburg, Ill. Filed Feb. 2, 1922. Serial No. 533,639. 1 Claim. (Cl. 107—51.)



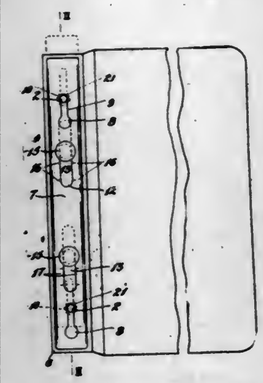
In a device for cutting articles into various configurations comprising an outer cutter member and an inner cutter member arranged concentrically therewith, a top formed with said outer cutter member, a handle, said handle being secured to said top and having a horizontal portion parallel to said top, said top having a centrally located opening therein adapted to receive said inner cutter member, a handle secured to the upper end of said inner cutter member, the handle of the inner cutter member being provided with vertical side members, the horizontal portion of the handle of said outer cutter member having openings therein through which are adapted to pass the vertical portions of the inner cutter member handle, and said top and horizontal portion of the handle of said outer cutter member being adapted to form guides for the inner cutter member whereby said inner cutter member will be stabilized during its cutting operation.

1,459,297. BICYCLE BOAT. GUSTAVE SWAN, Sioux Falls, S. Dak. Filed Sept. 28, 1921. Serial No. 503,768. 2 Claims. (Cl. 115—40.)



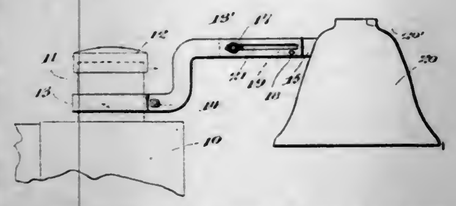
1. In a bicyle boat, a transverse shaft extending through the sides of the boat hull, paddle wheels, and means for releasably securing said paddle wheels to said transverse shaft, the paddles of said paddle wheels being adapted for rotation independently thereof when said paddle wheels and transverse shaft are disconnected and and said transverse shaft is rotating.

1,459,298. FILING DEVICE FOR LOOSE LEAVES. PHILIP TEARE, Melbourne, Victoria, Australia. Filed July 25, 1921. Serial No. 487,513. 6 Claims. (Cl. 129—8.)



1. A loose sheet filing device comprising a backing member, posts projecting therefrom, a metallic strip detachably connected to the posts, a cover slidable on the latter between the backing member and strip, and clamping screws rotatably mounted in the strip in threaded engagement with the cover.

1,459,299. FUNNEL FOR AUTOMOBILES. MILTON THOMPSON, Roland, Iowa. Filed Aug. 1, 1921. Serial No. 488,956. 2 Claims. (Cl. 220—86.)

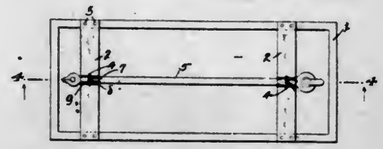


2. The combination with the filling tube of an automobile radiator, of pair of forwardly extending arms clamped on the said tube and formed with longitudinal aligning slots, a pivot disposed through the slots, an arm on the pivot for swinging movement to extend toward and away from the filling tube, a lateral pin on the outer end of the pair of arms, said pivoted arm being disposed between said pair of arms, a funnel carried by the free end of the pivoted arm and arranged to move with the arm to lie in filling position with respect to the filling tube and in inverted position away from the tube and forwardly of the bracket arms, and a clamping means on the said pivot for maintaining the pivoted arm in engagement with the said pin and against pivotal movement when the funnel is inverted.

1,459,300. PACKING DEVICE. STANWOOD E. FLITNER, Englewood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 5, 1920. Serial No. 363,546. 4 Claims. (Cl. 206—46.)

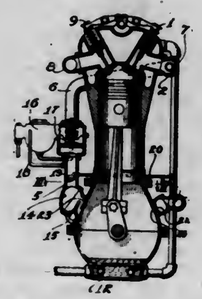
1. In a shipping crate, a support for fragile materials comprising a frame, a fabric material extending across

the opening between the sides of said frame and separate adhesive covered means attached to said fabric material



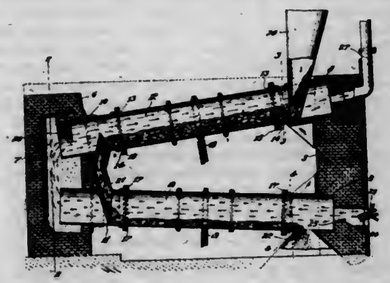
and adhesively attached to said fragile materials for holding the fragile material in place.

1,459,301. COMBUSTION-ENGINE OIL PURIFIER. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed Feb. 20, 1917. Serial No. 149,839. 16 Claims. (Cl. 123—196.)



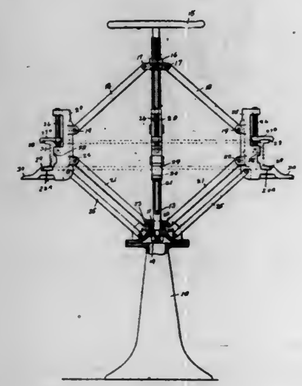
1. In an internal combustion engine, means for eliminating liquid fuel contamination from the lubricating oil thereof, comprising a collecting space for said oil, an entrance means into said space distributed along a wall thereof, and engine-operated means for maintaining a flow of gaseous medium through said distributed entrance in evaporative relation to the oil in said space and a condition of continuous relative vacuum therein during the engine operation.

1,459,302. ROTARY LIME-BURNING KILN. MAX HERMANN, New York, N. Y. Filed Aug. 11, 1921. Serial No. 491,342. 3 Claims. (Cl. 222—7.)



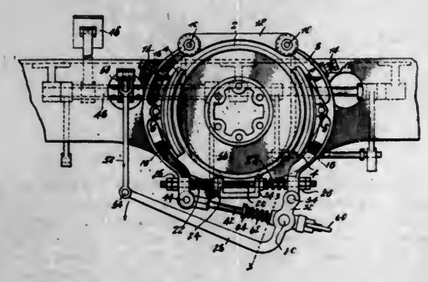
1. In a rotary lime burning kiln, the combination of kiln sections disposed one over the other and convergingly inclined towards each other, the kiln section being composed of fixed members and intermediate rotary members, a chambered header forming a flue connection between the near fixed members of said converging sections and provided with a bridge wall partially closing the upper portion of the lower end of the upper kiln section which projects inside said chambered header, and a tube independent of the header connecting the fixed members of said kiln sections for conducting limestone from the upper section to the lower section.

1,459,303. TIRE CHANGER. GEORGE R. HUDSON, Portland, and FRANKLIN M. CULP, Corvallis, Oreg. Filed Sept. 20, 1921. Serial No. 502,019. 2 Claims. (Cl. 157—1.)



1. In a frame for tire changers, the combination of a vertical frame member shaped to fit the inside of a rim and having a fixed outwardly projecting hook formed on the lower end of said frame, with a vertical rod supported at both ends by said frame, a hook slidably and rotatably mounted on said rod between said supports above said fixed hook, and means for moving said frame inwardly and outwardly with relation to the rim.

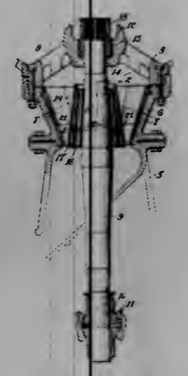
1,459,304. SERVICE BRAKE. RUSSELL HUFF, Detroit, Mich., assignor to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed Jan. 16, 1920. Serial No. 351,813. 8 Claims. (Cl. 188—75.)



1. In a device of the character described, in combination, a brake drum, a frame adjacent thereto, brake

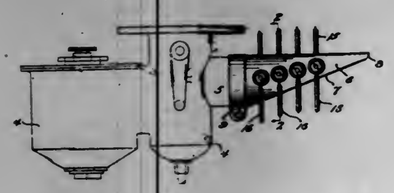
levers pivoted at one end in said frame, a brake shoe carried by each lever for cooperating with said drum, and a rod fixed relatively to said frame and passing through an opening in the other end of each of said levers and along which each is independently adjustable.

1,459,305. CRUSHING APPARATUS. JOSEPH E. KENNEDY, New York, N. Y. Filed Dec. 27, 1919. Serial No. 347,827. 9 Claims. (Cl. 83—10.)



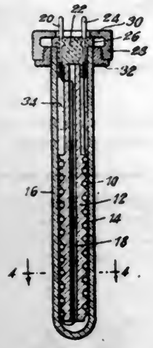
1. In a gyratory crusher, a rotatable support, a crushing member comprising tubular sections mounted upon the support in axial abutting relation and arranged with segmental recesses in the abutting ends adapted to be brought into opposed relation when the sections are in abutting relation, and common means to engage in said recesses to hold the sections against rotative movement, one relative to and independent of the other on the support.

1,459,306. FUEL DEVICE FOR INTERNAL-COMBUSTION ENGINES. ISAMI KODAMA, Philadelphia, Pa. Filed Aug. 18, 1920. Serial No. 404,473. 8 Claims. (Cl. 123—119.)



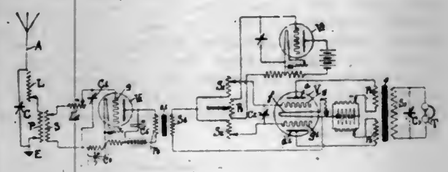
1. A device of the character described including an intake passage; means providing a chamber directly open to the atmosphere and communicating with said passage; and means for creating electric sparks directly in said chamber whereby oxygen can be drawn directly into said chamber, from a zone of said atmosphere of greater volume than is capable of passing through said passage, and collect around said sparking means to be conveyed through said intake passage; substantially as described.

1,459,307. ELECTRIC HEATING UNIT. CLEMENS A. LAISE, Weehawken, and ALBERT J. GALLAGER, West Orange, N. J. Filed Apr. 8, 1922. Serial No. 550,579. 11 Claims. (Cl. 219—41.)



1. A heater of the kind described having a casing of insulating material, a core having a resistance wire mounted thereon and positioned in said casing, said casing also provided with an inert atmosphere therein.

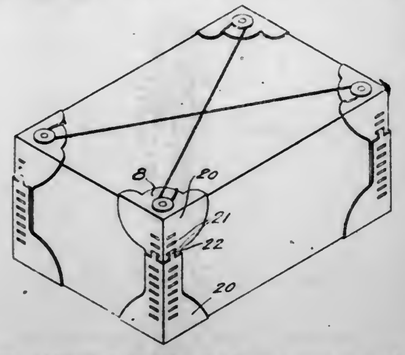
1,459,308. SIGNALING APPARATUS. DAVID G. MCCAA, Lancaster, Pa., assignor of one-third to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Apr. 6, 1920, Serial No, 371,674. Renewed Nov. 3, 1921. Serial No. 512,572. 23 Claims. (Cl. 250—8.)



1. Apparatus for receiving signals represented by undamped waves of radio frequency and for reducing the disturbing effects of simultaneously received energy comprising a receiving structure, signal translating means, detecting circuits differentially affecting said signal translating means, a local source producing oscillations reacting with the received oscillations representing the desired signal and the simultaneously received energy to produce opposing beats cumulatively affecting said signal translating means, and means for adjusting the amplitude of said locally produced oscillations in their reaction with said oscillationss for relatively increasing the effect upon said signal translating means of the beats representing the desired signal.

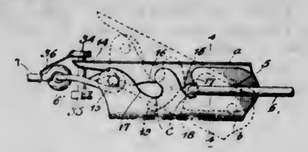
1,459,309. BOX REENFORCEMENT. ELIZABETH MILLER, New York, N. Y. Filed Feb. 5, 1921. Serial No. 442,615. 11 Claims. (Cl. 229—49.)

1. In a box reenforcement, corner braces applicable over the corners of a box and having angularly related sides to fit such corners, said corner braces being arranged in pairs and having angular extensions to embrace the



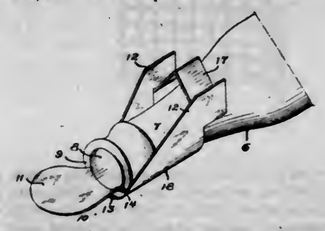
corner edges of the box and means for securing the braces over the box in such paired relation.

1,459,310. CLASP OR CONNECTING DEVICE. CHARLES MOSS, New York, N. Y. Original application filed Mar. 5, 1920, Serial No. 363,471. Divided and this application filed Aug. 30, 1920. Serial No. 406,883. 1 Claim. (Cl. 24—69.)



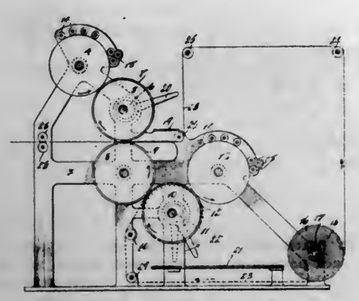
A clasp device comprising a pair of channel members adapted to interfit, said members being pivoted together at one end, said lower member having a diagonal recess opening upwardly and being directed as to length from the upper edge of the member downwardly toward the pivot point, the upper member similarly having a diagonal recess disposed as to length in a line intersecting said first named recess, said upper member also having an extension piece projecting below the recesses and adapted to lie forwardly of the bottom portions of the recess in the lower member when such members are closed, a stop carried by the free end of said lower member and extending across the channel, said upper member having an extension piece adapted to engage with said stop and projecting beyond the free end of the lower member, a link pivoted on the stop member and projecting below the extension piece, and locking means engaged with said link and extension piece.

1,459,311. SANITARY DRINKING DEVICE. HERMAN OZLEK, Philadelphia, Pa. Filed May 21, 1921. Serial No. 471,452. 2 Claims. (Cl. 215—100.)



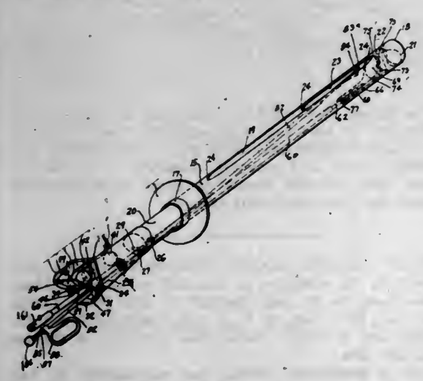
1. A device of the character described including a body portion having a split so as to provide a part adapted to be bent out of the plane of the adjacent portion through which a part of the container can be inserted, said body portion having a projecting mouth piece; substantially as described.

1,459,312. PRINTING PRESS. CARL G. PRITCHARD, Warren, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 22, 1919. Serial No. 325,335. 10 Claims. (Cl. 101—137.)



1. In a combination perfecting and two color printing-press, the combination of two form-cylinders, two coacting transfer-cylinders, each form cylinder imparting its design to its respective transfer-cylinder, an impression cylinder provided with a transfer surface in printing relation with both said transfer-cylinders whereby one of said transfer-cylinders may re-transfer its design to said impression-cylinder, means for feeding an impression-receiving material between the other of said transfer-cylinders and the impression-cylinder to perfect such material passing there-between, and separate means for feeding an impression-receiving material between the first transfer-cylinder and the impression-cylinder to receive on the same side the respective designs of each transfer-cylinder.

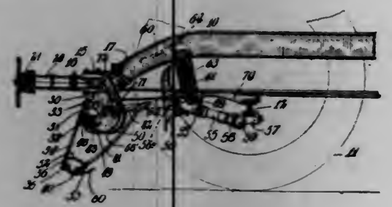
1,459,313. OPERATING URETHROSCOPE. SIMON REISLER, Indianapolis, Ind., and HERRMANN B. TOBIAS, Philadelphia, Pa. Filed June 28, 1921. Serial No. 481,030. 6 Claims. (Cl. 128—7.)



1. In an instrument of the character described, the combination with two telescoping urethroscopic tubes having rear end windows; an operating front; and an

adjustable illuminated optical system for reflecting the field of operation to the operator at right angles to the axis of the instruments, of a long lateral window in both tubes and a "Folliculotome" operating through said lateral windows.

1,459,314. AUTOMATIC LIFE PROTECTOR FOR AUTOMOBILES. MICHELL RESK, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,383. 4 Claims. (Cl. 180—83.)



4. In an automobile, in combination, a fender comprising a back portion and an extensible apron, a hinged element on which said back portion is hingedly mounted in turn, and means carried by said hinged element and adapted to cause said extensible portion to extend, said part comprising a gear engaging a fixed rack.

1,459,315. DUMPING CARGO CARRIER. HOWARD VAN SCOY, Chicago, Ill., assignor to Goodwin Car & Mfg. Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Oct. 21, 1921. Serial No. 509,264. 7 Claims. (Cl. 105—240.)



1. A hopper cargo carrier comprising movable valves, a plurality of releasing and replacing means therefor, and a power means associated with said releasing and replacing means and movably mounted to be directed toward each of said means to exert a substantially straight line operating effort thereon.

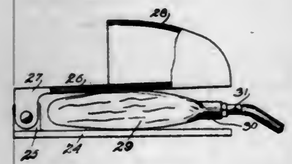
1,459,316. CORSET CLASP. WILLIAM WEINSTEIN, New York, N. Y., assignor of one-half to Albert Malsin, New York, N. Y., and one-half to Rite Form Corset Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 4, 1922. Serial No. 592,342. 9 Claims. (Cl. 24—204.)

1. In a corset-clasp device, the combination of two superposed strips adapted for use with the usual stud-carrying steel, one of said strips being slidable longitudinally of the other, the relatively stationary strip being provided with eye-members and the relatively movable strip with keepers co-operating with said eye-members; and common means for securing said keepers to said



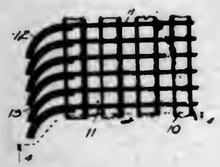
relatively movable strip and for securing said strips against separation and for guiding said relatively movable strip in its longitudinal movement.

1,459,317. FOOT ACCELERATOR. EDWIN HAROLD BIRDSALL, Thornton, Iowa. Filed Apr. 13, 1922. Serial No. 552,126. 6 Claims. (Cl. 74—81.)



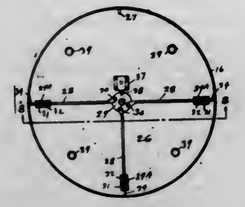
1. A device of the class described comprising a throttle actuating rod, a freely movable base, a foot pedal pivotally connected with said base, a flexible receptacle carried by said base adapted to be compressed by the foot pedal, and means whereby the compression of the receptacle and the consequent movement of the contents thereof actuates said rod.

1,459,318. RADIATOR AIR-CIRCULATION-CONTROL DEVICE. EDWIN H. BIRDSALL, Thornton, Iowa. Filed May 1, 1922. Serial No. 557,579. 4 Claims. (Cl. 236—35.)



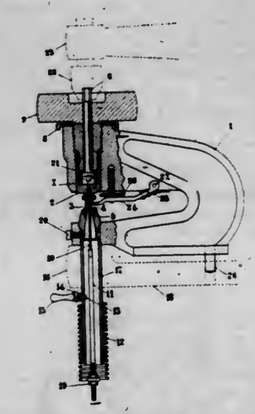
1. In a radiator having water conducting tubes, pairs of plates projecting forwardly from the tubes, said pairs being fixed together at their forward and rearward ends, and being connected against spreading between their ends and being made of material having different coefficients of expansion.

1,459,319. TIRE CASE. GUY E. BLOSS, Portland, Oreg. Filed Sept. 14, 1921. Serial No. 500,493. 1 Claim. (Cl. 224—29.)



In a tire case, the combination of a cylindrical body member arranged to be attached to an automobile and to support automobile tires internally, a metallic cover adapted to seat closely on said body, said cover having on the center of its inner side a disk rotatable from the outside of said cover, a lock for controlling the rotation of said disk, a plurality of plungers loosely connected to said disk, a U-shaped guide at the outer end of each of said plungers secured to the inner side of said cover, a spring on each of said plungers between the parallel sides of each guide adapted to urge said plungers outwardly, catches secured on the inner side of said body opposite said plungers, a dowel pin on the upper side of said cover adapted to engage a corresponding hole in said body, and a set of legs removably attached to the under side of said cover.

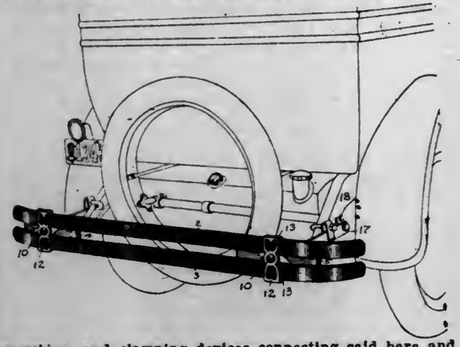
1,459,320. PUNCHING MACHINE. LUCIEN ALFRED MAURICE CORSET, Paris, France. Filed Aug. 26, 1921. Serial No. 495,664. 11 Claims. (Cl. 164—86.)



1. A machine for cutting metal plates by successive punching operations, comprising in combination a cylindrical punch, a die arranged opposite the punch, a pin passing through the opening in the die and adapted to come into contact with the punch during the whole movement or a portion of the movement of the punch, said pin limiting the advance of the sheet during each movement of the punch.

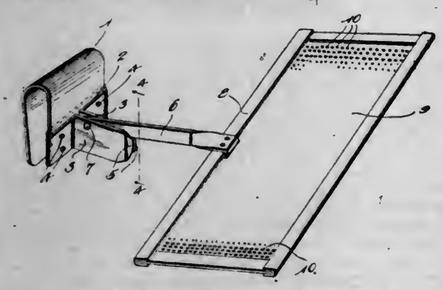
1,459,321. END SHIELD FOR MOTOR VEHICLES. WILLIAM G. COX, Cleveland, Ohio. Filed Mar. 21, 1923. Serial No. 626,505. 12 Claims. (Cl. 293—55.)

7. An end shield for a motor vehicle, comprising a pair of resilient bow-shaped members each having free ends in the same vertical plane extending in opposite directions beyond each other in different horizontal planes, a pair of buffer bars horizontally arranged one above the other opposite the respective ends of said supporting



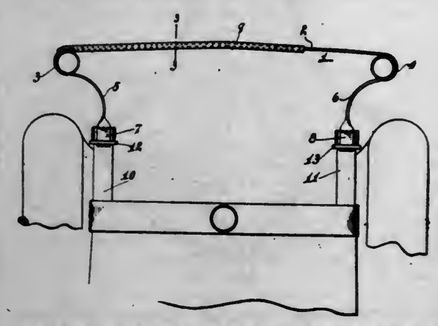
members, and clamping devices connecting said bars and the respective ends of each supporting member together.

1,459,322. EYE-SHIELDING ATTACHMENT FOR WINDSHIELDS. JAMES E. DAVITT, Groton, N. Y. Filed Oct. 2, 1922. Serial No. 591,924. 2 Claims. (Cl. 296—97.)



1. An eye shading attachment for windshields comprising a support, a pair of horizontally yieldable spring arms extending rearwardly from said support and having their free ends turned inwardly into contact with each other to form vertically disposed stops, said stops having beveled upper and lower ends, a vertically swinging arm pivoted between said spring arms and normally resting on the upper ends of said stops, and an eyeshield carried by said swinging arm.

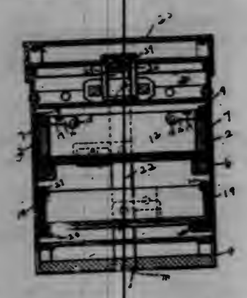
1,459,323. AUTOMOBILE BUMPER. JOSEPH S. DE MARTINI and JOHN W. DE MARTINI, San Francisco, Calif. Filed Apr. 3, 1922. Serial No. 549,105. 1 Claim. (Cl. 293—55.)



A bumper for a motor vehicle comprising a single bar of spring metal, said bar being curved forwardly and bent

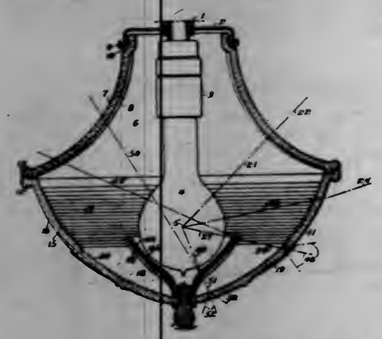
into a spring coil at each side of the bumper, and connecting members extending from the coils to the ends of the bar, said connecting members being twisted approximately 90° near their ends forming securing members, said connecting members being curved from the coils to the securing members and a strip of resilient material extending throughout the length of the front portion of the bumper and nearly enclosing said portion.

1,459,324. SLIDING DRAWER AND LOCK. LEO J. DIEBOLD, Mount Vernon, Ind. Filed June 29, 1922. Serial No. 571,818. 1 Claim. (Cl. 45—77.)



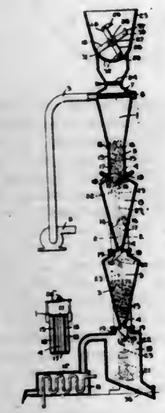
In an extension drawer support, a casing, cleats secured to the sides of the casing, drawer guides of angle shape comprising vertical and horizontal portions, the horizontal portions adapted to slide upon the cleats and being provided at their rear ends with L-shaped extensions to engage around and under the cleats, the vertical portions being of equal dimensions as the sides of the drawer and provided with inturned members formed by bending the metal of the guide inwardly and downwardly, a drawer slidably received upon the horizontal portions of the guides and being provided with longitudinal slots in the top of each side thereof, the aforementioned downwardly bent portion of the inturned members being slidably received in the slots and pivoted members secured to the back of the drawer adapted to be swung but normally in position within the slots to abut the inturned members acting as a stop to further outward movement of the drawer unless swung to inoperative position.

1,459,325. ILLUMINATING APPLIANCE. WILLIAM A. DOSEY, Newark, Ohio, assignor to Holophane Glass Co. Inc., New York, N. Y., a Corporation of New Jersey. Filed July 6, 1921. Serial No. 482,794. 5 Claims. (Cl. 240—93.)



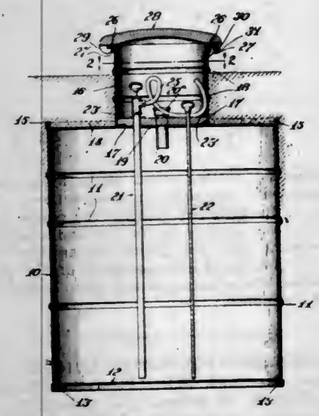
1. An illuminating appliance consisting of a light source and an enclosing glass bowl completely surrounding the same, such bowl being horizontally divided into three zones, an upper and a lower light transmitting zone, and an intermediate zone provided with light refracting prisms adapted to receive light rays directly from the source and to refract such rays outwardly and upwardly.

1,459,326. APPARATUS FOR AND METHOD OF DRYING OR OTHERWISE TREATING MATERIAL. FRED T. DOW, Bangor, Me. Filed Nov. 1, 1919. Serial No. 335,157. 7 Claims. (Cl. 34—34.)



1. In an apparatus for treating material, the combination with a plurality of connected chambers, each adapted to contain material to be treated and having a progressively-increasing cross-sectional area from the bottom toward the top, said chambers being arranged in series and communicating with each other, means to cause a current of treating medium to pass through said chambers successively and at such a velocity as to hold the material in suspension in each chamber, and means to cause the material to be transferred periodically from chamber to chamber.

1,459,327. STORAGE TANK. OTTO S. FLATH, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,778. 7 Claims. (Cl. 220—85.)

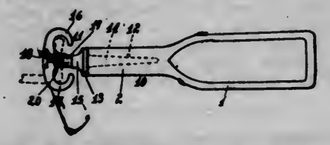


1. As an article of manufacture, a tank comprising a self-supporting fluid-holding metallic shell or wall provided with a neck portion, a horizontally disposed shoulder or flange at the inner orifice thereof, an inner cover member seated on said shoulder and provided with a filling tube, a measuring gauge and a pump communicating with the lower end of said tank, means whereby the inner cover member is locked in place, and an outer cap or cover member adapted to be locked to the outer end of said neck portion.

1,459,328. GILSONITIC PRODUCTS. CHARLES N. FORREST, Rahway, HAROLD P. HAYDEN, Raritan Township, Middlesex County, N. J., and ORIN R. DOUTHETT, Beaver Falls, Pa., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa., a Corporation of West Virginia. Original application filed Aug. 28, 1919, Serial No. 320,514. Divided and this application filed Apr. 3, 1922. Serial No. 549,186. 3 Claims. (Cl. 134—56.)

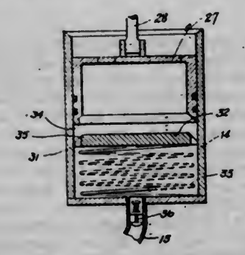
1. A semi-drying, viscous, gilsonitic sulphonation sludge oil.

1,459,329. ROPE FASTENER. LEO A. GIROT, Oakland, Calif. Filed May 16, 1921. Serial No. 469,840. 2 Claims. (Cl. 24—130.)



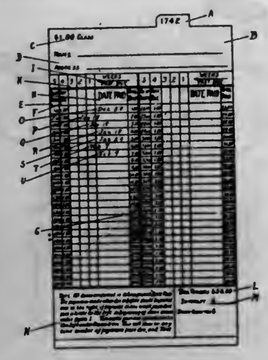
1. A rope fastener including two members, one member comprising an eye and an arm extending from said eye and provided with a longitudinal threaded bore in its forward end, the other member comprising a disk, a screw extending rearwardly from said disk and adapted to screw into said threaded bore until said disk engages the front end of said arm, an arm extending forwardly from said disk, a pair of hooks extending from the forward end of said arm at the respective sides thereof, and a pair of upstanding lugs on said arm forming between them a crotch extending transversely of the arm in alignment with said hooks.

1,459,330. PUMP FOR BOAT-PROPELLING DEVICES. GOTTFRIED GUSTAFSON, Brooklyn, N. Y. Filed Dec. 22, 1921. Serial No. 524,097. 1 Claim. (Cl. 230—27.)



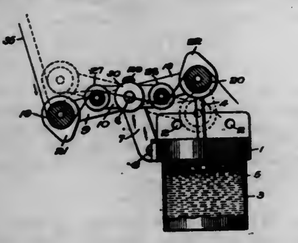
In a device of the class described, a vertical cylinder open at the top, a piston head having intake holes therein and being adapted to slide in said cylinder, an annular wall encircling said piston head and having its lower internal edge beveled, an annular disk floating in said cylinder, a beveled peripheral edge on said disk engageable with the corresponding edge of the piston head, a coil spring supporting said disk, said disk having notches on its periphery, said notches being normally closed when in contact with the piston head, and means for actuating said piston head.

1,459,331. MEANS EMPLOYED IN BOOKKEEPING. EMIL R. HERING, Cleveland, Ohio. Filed Aug. 9, 1919. Serial No. 316,283. 1 Claim. (Cl. 283—48.)



A credit card, an appropriately designated column thereon to receive a mark to indicate a timely payment, a plurality of columns adjacent thereto each appropriately designated to receive a portion of the mark to indicate a tardy payment and its degree of tardiness.

1,459,332. MEANS FOR MAINTAINING UNIFORM THE TENSION UPON YARN OR THREAD. EDSON S. HINELINE, Providence, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Dec. 19, 1921. Serial No. 523,464. 8 Claims. (Cl. 242—154.)

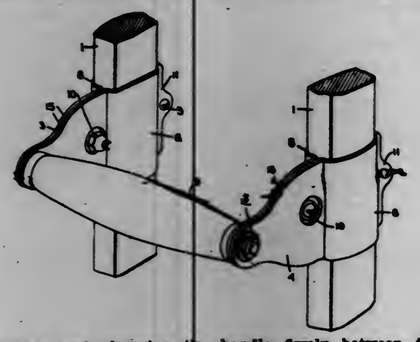


4. Means for maintaining uniform the tension upon yarn or thread comprising in combination, a pair of yoke-like members, each having a plurality of yarn guiding means, said guiding members being co-axially pivoted, means whereby one of said members may be held rigidly, and a liquid-resistance container having therein a plunger operatively connected to the other of said members.

1,459,333. CRUTCH. GEORGE HIPWOOD, New York, N. Y. Filed Mar. 11, 1919, Serial No. 281,941. Renewed Nov. 15, 1922. Serial No. 601,167. 2 Claims. (Cl. 135—51.)

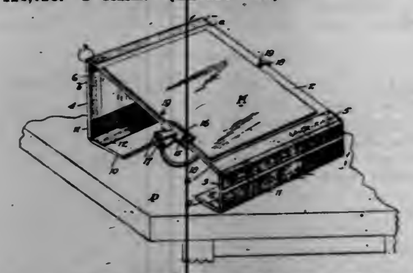
1. In a crutch, the combination with a crutch body having two side members, of two separate handle-supporting brackets, one secured to each side member, each bracket comprising a pair of plates which are wider at one end than at the other, each plate having a groove at its wider end to receive a side member of the crutch and having a peripheral stiffening flange at the other end, the flanges of the plates of each pair having an abutting relation, clamping screws for clamping together the plates of each pair, the screws for each bracket being situated on opposite sides of the side member of the crutch, a handle member interposed between

the brackets at the narrow ends thereof, and a rod extending through both brackets and through said handle



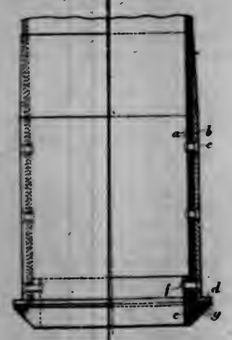
member and clamping the handle firmly between the brackets.

1,459,334. COPYHOLDER. ROSA I. KELLEHER, San Francisco, Calif. Filed Oct. 5, 1920. Serial No. 414,718. 1 Claim. (Cl. 120—28.)



A copy holder comprising a stiff table member, end flaps, continuous double hinge means connecting said flaps to the ends of the said member, and foot members hinged to the free edges of the end flaps, said flaps and foot members having unfolding movement limited by the hinge means.

1,459,335. METAL PROPELLER. HENRY LEITNER, London, England. Filed Feb. 18, 1921, Serial No. 446,047. Renewed Apr. 24, 1923. 6 Claims. (Cl. 170—159.)



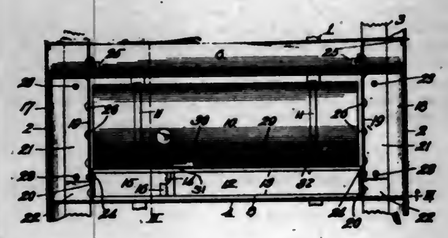
1. A metal propeller comprising a laminated stalk, an outer sleeve and an inner sleeve, and means for securing said laminations to and between said sleeves.

1,459,336. TESTING DEVICE FOR FLASH-LIGHT BATTERIES AND LAMPS. WALTER LINK, Ajo, Ariz. Filed Oct. 21, 1921. Serial No. 509,350. 6 Claims. (Cl. 175—183.)



1. A testing device for flashlight batteries and lamps comprising a base member having an upwardly extending member thereon provided with means for supporting an electric lamp, and for connecting one terminal of said lamp to said base member, a clamping member slidingly mounted on said base member and adapted to engage a battery or cell to hold the same between said clamping member and said upwardly extending portion of the base member in such position that a terminal of the battery or cell will contact with a terminal of the said electric lamp, and manually controlled means on said clamping member for closing electric connection from the other terminal of the battery to said base member.

1,459,337. TOOL-BOX ATTACHMENT FOR MOTOR CARS. ANDREW W. LOVEJOY, Kansas City, Mo. Filed Mar. 8, 1920, Serial No. 364,010. Renewed Sept. 7, 1922. Serial No. 586,798. 5 Claims. (Cl. 296—37.)

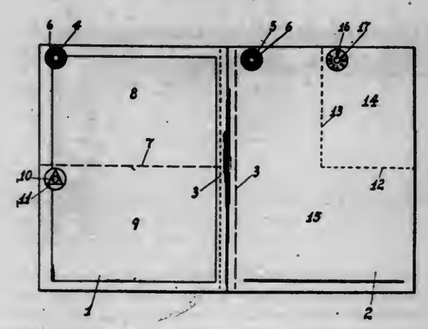


4. The combination in a motor car of a tool box forming attachments comprising a pair of vertical partitions adjacent the sides of the car and between the front and back walls of a seat thereof, each partition comprising a plurality of members arranged in overlapping relation and secured together and to the car structure, and each member having a foot flange extending outwardly and engaging the adjacent side wall of the body of said structure, a trough fitting against the inner side of the front wall of said seat and secured at its ends to the said partitions, a brace hinged to said trough and adapted to hold the top of the seat of the car in open position or to extend horizontally against the rear wall of said trough, and a spring clip carried by said trough for engagement with the free end of said brace to hold the same from rattling against said trough.

1,459,338. DETACHABLE BOOK LEAF. CHARLES W. MCCALL, Oakland, Calif. Filed Dec. 15, 1920. Serial No. 430,910. 1 Claim. (Cl. 281—38.)

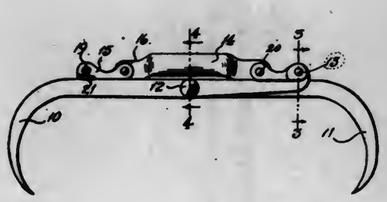
A book leaf having two holes near the upper margin thereof and provided with a line of perforations extending transversely inwardly from its outer side edge, with a line of perforations extending from another edge to the

inner end of said first line, and with a line of perforations extending along its binding whereby when its leaf is severed along the line of perforation two sheets will be



formed, each sheet having one of the holes in the upper corner thereof, whereby the same may be hung on a projection.

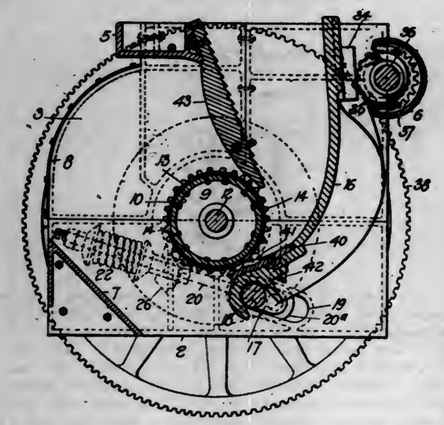
1,459,339. ICE TONGS. OTTO R. MEINHOLDT, Dallas, Tex., assignor of one-half to Erich Meyhoefer, Dallas, Tex. Filed Dec. 27, 1921. Serial No. 524,855. 1 Claim. (Cl. 294—118.)



In a pair of ice tongs, the combination of a pair of intersecting grappling arms pivoted together intermediate their ends, said arms having substantially straight shanks merging into inwardly curved lower ends, a pivotal ear integral with the upper end of each shank and offset laterally, a tubular handle having both ends flattened to provide pivotal elements, a pair of links pivotally receiving said elements in their upper ends and the said ears in their lower ends, whereby the said handle is pivotally connected to the said arms, the said links being adapted to lie contiguous to the said shanks when the latter are disposed in parallel relation by the open position of said arms, whereby the tongs may be grasped around the middle and the handle and shanks held together, and stop lugs integral with said links and projecting laterally therefrom to prevent the lower ends of the arms from moving above the pivotal point of the latter.

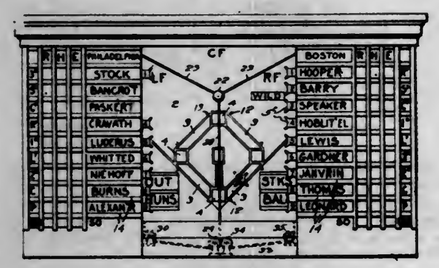
1,459,340. CRUSHER. DAVID J. NEVILL, Denver, Colo., assignor to The Stearns-Roger Manufacturing Company, a Corporation of Colorado. Filed June 8, 1920. Serial No. 387,452. 5 Claims. (Cl. 83—53.)

1. In a crusher, the combination of a rotary crushing roll, a jaw cooperating therewith, a rotary and laterally movable shaft upon which the jaw is movably supported, and a resilient element having crank-connections with



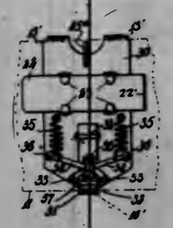
the shaft and adapted to hold it in either its normal position with relation to the roll or in an adjusted position in which it is further separated therefrom.

1,459,341. SCORE OR BULLETIN BOARD. PAUL C. OSCANYAN, Bogota, N. J., assignor to Star Ball Player Company, New York, N. Y. Filed Sept. 27, 1921, Serial No. 503,498. Renewed Oct. 19, 1922. Serial No. 595,679. 11 Claims. (Cl. 116—120.)



5. The combination with a game board representing a base ball field, of cross bars near each side portion of the board and spaced apart one above another, vertical guide rods connecting the superimposed cross bars of the respective pairs, a ball member in front of the board, a ball control member behind the board, pulleys at respective ends of each cross-bar, a weight at each side portion of the board, each weight provided with an arm guided by the vertical rods, cords attached to said ball member and extending in opposite directions therefrom, said cords passing over pulleys of the respective upper cross bars, the free end of said cords attached to the weight arms, cords attached to the ball control member and extending in opposite directions therefrom and over pulleys on the upper cross bars, said last mentioned cords extending downwardly from said last mentioned pulleys and connected with said weights, and means whereby said control ball member may be moved manually to effect movements of the ball member.

1,459,342. SUPPORT FOR WINDOW SHADES AND CURTAINS. PAUL PIOTROWSKI, Newport, N. H. Filed May 6, 1922. Serial No. 558,855. 5 Claims. (Cl. 156—24.)



4. A device of the class described comprising a main plate, a bar vertically guided thereon, back-turned hooks formed respectively on the upper and lower ends of said plate and bar, a pair of levers fulcrumed on said plate one on each side thereof, said levers crossing over said bar in opposite directions and having operative engagement therewith at points between their ends, and coiled tension springs attached at one end to said plate and at opposite ends to said levers adjacent the free ends of the latter.

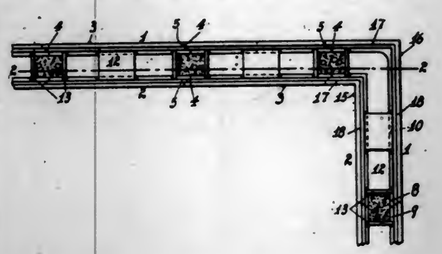
1,459,343. SELF-CONTAINED REMOVABLE POWER UNIT FOR CLOCK MOVEMENTS. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Company, New Haven, Conn., a Corporation. Filed Aug. 22, 1921. Serial No. 494,060. 1 Claim. (Cl. 58—52.)



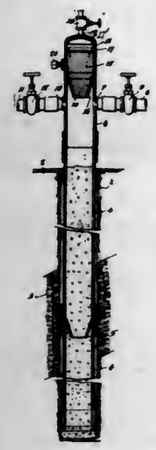
The combination with the movement-plates and connecting pillars of a clock-movement, one of the plates having a supporting-notch, of a removable, self-contained power-unit, providing a bearing for the spring-arbor of the unit, and having a fixed stud for the anchorage for the outer end of the spring of the unit, the said slot in one of the movement-plates being positioned to receive the outer end of the stud when the power-unit is located between the movement-plates, whereby the said removable self-contained power-unit may be installed in and removed from the clock-movement without spreading the movement-plates or removing any of the pillars thereof.

1,459,344. BUILDING-WALL CONSTRUCTION. ERNEST A. RASMUSSEN, Oakland, Calif. Filed Feb. 8, 1922. Serial No. 535,051. 4 Claims. (Cl. 72—29.)

1. A wall construction including an inner unit, an outer unit, each unit comprising slabs laid end to end in horizontal rows superimposed upon each other, the end joints of each row being staggered with relation to the end joints of adjacent rows, the ends of the slabs being rabbeted to interengage each other, the lower and upper edges of the slabs being rabbeted to interengage each other, recesses formed on the inside of the slabs at the upper corners thereof so that the corner recess of each slab registers with the corner recess of the adjacent slab, the lower edges of said corner recesses being undercut, the slabs being also formed on their inside at their upper edges with plate supporting recesses directly below the registering corner recesses, plates placed between the outer and inner wall units upon the lower edges of opposite plate supporting recesses, keys formed with undercut shoulders arranged in pairs spaced a short distance apart and placed so that each pair rests upon a plate and the undercut shoulders thereof engage the undercut lower edges of the corner recesses above said plate, and a cement filling between each pair of keys.



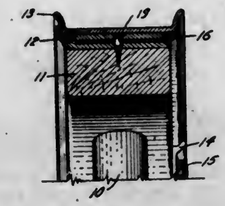
1,459,345. WELL-CEMENTING APPARATUS. WILLIAM J. ROBERTSON and HARRY E. BECKER, Fullerton, Calif. Filed July 18, 1922. Serial No. 575,785. 3 Claims. (Cl. 166—1.)



1. A well-cementing apparatus comprising a casing through which cement may be forced into a well-bore, means for injecting cement into the casing, a plunger element slidable within the casing above the cement, means creating a pressure within the casing above the plunger to move the plunger downwardly and force the cement from the lower end of the casing, and a stationary abutment carried by the casing and functioning to positively arrest the plunger at a fixed distance from the lower end of the casing.

1,459,346. SHIM PLATE FOR DEMOUNTABLE RIMS. ARTHUR E. SHEA, Eckley, Colo. Filed June 13, 1922. Serial No. 567,984. 1 Claim. (Cl. 301—24.)

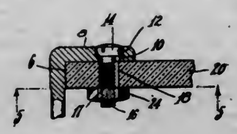
The combination of a wheel felloe; a demountable tire containing rim slidably mounted on said felloe; bolts equally spaced in the side of said felloe; a clip on each of said bolts adapted to hold said rim on said felloe and shim plates detachably secured to said felloe between said felloe and said rim, said shim plates being spaced between each pair of said bolts and being adjustable in thickness so that they may be made to completely close the space between said felloe and said rim.



1,459,347. PHARMACEUTICAL PRODUCT. EMIL STARKENSTEIN, Prague, Czechoslovakia. Filed Jan. 22, 1921. Serial No. 439,250. 5 Claims. (Cl. 260—33.)

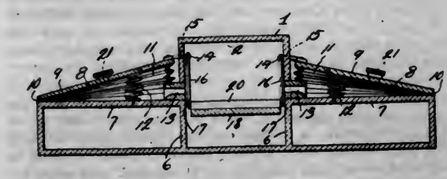
1. The reaction product of the combination of diethylbarbituric acid and 4-dimethylamino-1-phenyl-2, 3-dimethyl-5-pyrazolon.

1,459,348. OPHTHALMIC MOUNTING. FREDERICK A. STEVENS, Providence, R. I., assignor to Stevens and Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Dec. 10, 1919. Serial No. 343,921. 10 Claims. (Cl. 88—42.)



1. An ophthalmic mounting having, in combination, a lens strap having a lens seat and a single ear provided with a perforation having an enlarged portion at the outer face of the ear to constitute a seat, the wall of the enlarged portion being of circular cross section, a perforated lens, a simple post having an enlarged head of circular cross section seated within the enlarged portion of the ear perforation and a body portion eccentrically disposed to the head within the lens perforation, whereby, upon rotatable adjustment of the post, the edge of the lens may be adjusted into firm engagement with the lens seat, and means independent of the strap engaging a face of the lens and co-operating with the post and the ear to secure the lens in adjusted position upon the strap.

1,459,349. FOWL POWDERER. FRED VAN ACKEREN, Cedar Rapids, Nebr. Filed Nov. 3, 1922. Serial No. 598,812. 3 Claims. (Cl. 119—159.)



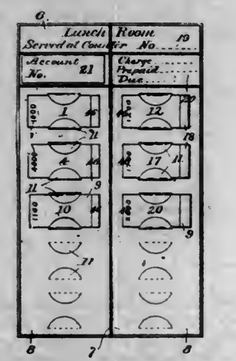
1. A fowl powdering device, said device comprising a casing having a chamber extending longitudinally therethrough, a pivoted platform disposed within said chamber and adapted to be depressed by the weight of the fowl thereon at one of its ends, oppositely disposed bellows carried by the casing and located outside thereof and having discharge ports in communication with the chamber at opposite sides thereof and above the platform, and connections between said platform and said bellows whereby they will be actuated by a downward movement of the platform.

1,459,350. LADDER. FRANK VENIERO, Moreno Stage, Calif. Filed Dec. 7, 1920. Serial No. 428,894. 2 Claims. (Cl. 228—58.)



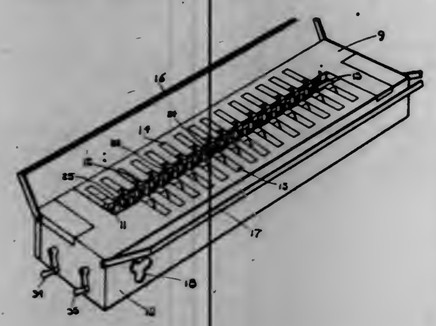
1. A ladder comprising a pair of side bars connected together at their upper ends and having the remaining portion of their length spaced apart, spaced cylindrical superposed rungs spanning the space between said bars and secured to the latter, an arch shaped brace rectangular in cross section interposed between and secured to the lower end terminal portions of said bars, said brace having its central portion abutting against the lowermost one of said rungs and projecting beyond each side thereof.

1,459,351. ADVANCE ORDER DEVICE. DIONYSIE WORONZOFF, New York, N. Y. Filed Nov. 7, 1921. Serial No. 513,581. 7 Claims. (Cl. 283—60.)



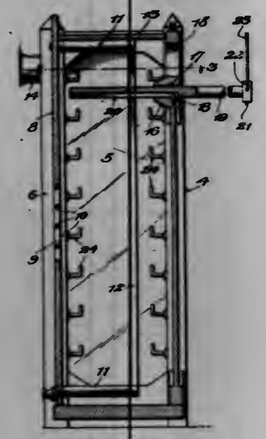
1. In an advance order device, the combination with a menu having different foods listed thereon and different indicia designating each of said foods, of order checks each bearing the indicia used on the menu for designating one of the foods listed thereon.

1,459,352. KNITTING MACHINE. CHARLES APPEL, Cincinnati, Ohio. Filed Apr. 21, 1922. Serial No. 555,810. 2 Claims. (Cl. 66—31.)



1. A knitting machine comprising a frame having a slot extending longitudinally thereof, pins extending along each side of the slot, and a mechanism for each pin, adapted to remove looped yarn from the pin, said mechanism consisting of a finger having a loop-engaging detent thereon, a pitman having the finger pivotally mounted thereon, and a crank adapted to transmit substantially circular movement to the lower end of the pitman, whereby the finger will be caused to move upwardly, away from and then toward the pin during its upward movement.

1,459,353. EYE-TESTING DEVICE. ERNEST G. BENDER and LOUIS F. GRAF, Independence, Iowa, assignors to Roy A. Cook, Independence, Iowa. Filed Sept. 22, 1919. Serial No. 325,324. 2 Claims. (Cl. 88—20.)



1. A carrying member for spectacles and the like comprising a wall having two vertically disposed separated openings therein, each of the opposite edges of the openings having a series of seats to receive spectacle-bows, oppositely-disposed posts extending rearwardly from upper and lower portions of said wall, and upright bars carried by said posts, each of said bars being located substantially in alinement with a series of said seats and being arranged to be engaged by curved ear portions of bows engaged in said seats.

1,459,354. MEDICINE DROPPER. CONRAD BERENS, Jr., New York, N. Y. Filed Dec. 5, 1922. Serial No. 605,088. 6 Claims. (Cl. 128—232.)



1. A medicine dropper comprising a generally cylindrical reservoir having a laterally directed discharge nipple at one end, a hollow stem communicating with and extending to one side of said reservoir, and a compression bulb on said stem.

1,459,355. TRACKER BOARD FOR PLAYER PIANOS AND ORGANS. PAUL H. BILHUBER, Douglaston, N. Y. Filed Mar. 3, 1922. Serial No. 540,722. 2 Claims. (Cl. 84—151.)



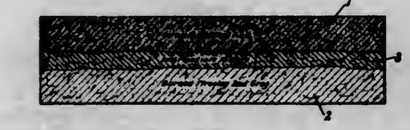
1. A tracker board having the usual perforations therein connected to the pneumatic action and provided further with slots extending lengthwise of the board and substantially parallel with the row of perforations, said slots being remote from the side edges of the tracker board and close to the row of perforations whereby to reduce the area of suction pressure contact of the web with the tracker surface, said slots being continuously in communication with the atmosphere whereby to break the vacuum pressure upon the web throughout the greater area of the tracker surface at the outer sides of said slots.

1,459,356. VALVE-GRINDING TOOL. FRANK M. BIRD, Oakland, Calif. Filed Aug. 17, 1921. Serial No. 492,915. 1 Claim. (Cl. 51—29.)



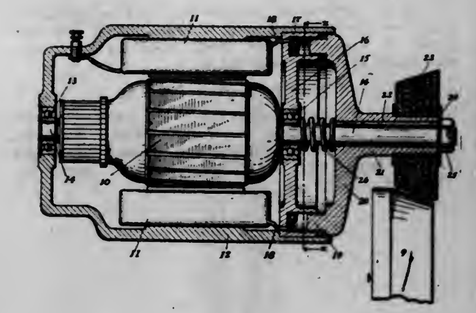
In a valve grinding tool, a handle formed with a knob at each end for operating said tool, a stem projecting from said handle, a vacuum cup member constructed of soft rubber or similar material and adapted to grip the top of a poppet valve, said vacuum cup member being formed with a hollow cylindrical portion, a screw threaded stud adapted to be screwed into the hollowed out portion of the vacuum cup member, said stud being screw threaded about its lower portion above said screw threaded portion, a collar on the upper part of said stud constituting a flange, a cylindrical socket member in the form of a shell adapted to fit around said stud between said collar and the upper part of the cylindrical portion of said vacuum cup member and a universal joint connection between said stud and said stem.

1,459,357. CERAMIC ARTICLE AND METHOD OF MAKING THE SAME. MACDONALD C. BOOSE, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 17, 1921, Serial No. 445,833. Renewed Dec. 8, 1921. Serial No. 520,991. 18 Claims. (Cl. 25—156.)



1. The method of making a multilayer ceramic article having a facing of bonded granular material, comprising the steps of incorporating with said granular material a ceramic bond containing an ingredient capable of producing high drying shrinkage, adding water thereto to make a plastic mass, adding a backing of ceramic material, shaping the article, drying the same, and subsequently firing the mass to bond the granules together and unite the backing therewith.

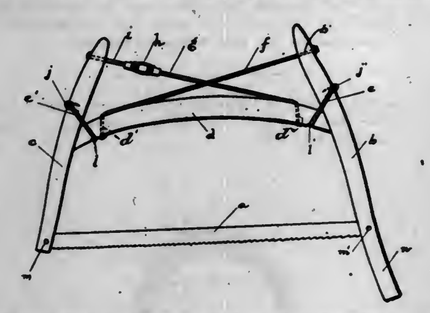
1,459,358. ENGINE STARTER. ALVIN E. BUCHENBERG, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 14, 1919. Serial No. 289,950. 8 Claims. (Cl. 172—239.)



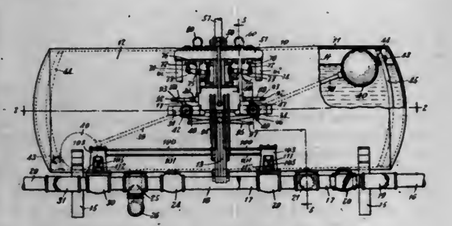
1. In combination with a motor shaft, a non-rotatable electro-magnet, a drive wheel adapted to engage and ride a driven element slidable upon said shaft and arranged to be positively rotated thereby, an armature for said magnet surrounding and slidable upon said shaft, said armature and drive wheel being rigidly connected, and means for energizing said electro-magnet and thereby moving said drive wheel longitudinally upon said shaft.

1,459,359. SAW FRAME. DANIEL P. BUCKLEY, Fitchburg, Mass., assignor, by mesne assignments, to Simonds Saw and Steel Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed Aug. 5, 1922. Serial No. 579,904. 10 Claims. (Cl. 145—32.)

1. A saw frame comprising two end members and a cross-piece, the ends of the cross-piece being constructed and arranged to abut said members, and means connecting both ends of the cross-piece to each end member to form a rigid structure.

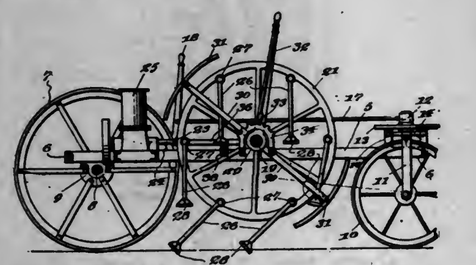


1,459,360. PUMP. FRANK H. COLE, Chelsea, Mass. Filed Feb. 28, 1921. Serial No. 448,308. 17 Claims. (Cl. 103—246.)



1. A pump comprising a tank provided with a plurality of chambers adapted to contain liquid, means to direct the flow of liquid into and out of said chambers, valves adapted to admit pressure fluid into said chambers alternately and thereby force said liquid therefrom, means to operate said valves, a float located in each chamber adapted to be raised and lowered by said liquid and thereby control the operation of said valve operating means, means to lock each float in its lowered position while the liquid is entering the chamber in which said lowered float is located and means to release said lowered float by the float of the other chamber when all of the liquid has been discharged from the latter chamber.

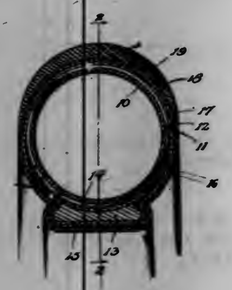
1,459,361. TRACTOR. EUGENE S. COLE, Covington, Pa. Filed Apr. 14, 1922. Serial No. 552,819. 6 Claims. (Cl. 180—8.)



1. A tractor comprising a wheeled frame, a rotatable element carried by said frame, rotatable pendant arms

carried by said rotatable element, reversible and adjustable guides rigidly connected and simultaneously movable, the one to and the other from operative position for angularly directing said arms into the ground, and a driving means for said rotatable element.

1,459,362. TIRE. MICHAEL T. CONROY, Akron, Ohio. Filed Dec. 2, 1921. Serial No. 519,499. 1 Claim. (Cl. 152—18.)



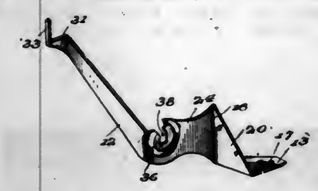
In a tire, the combination of a double edged bead, a tube encircling the bead, a fabric strip interposed between the bead and tube and having feathered side margins terminating at the sides of the tube, a second fabric strip enclosing the bead in contact therewith and having feathered side margins overlying the side margins of said first mentioned strip terminating coincident therewith, lines of stitching uniting the margins of said strips, a cord ply surrounding the tube and bead and having its margins overlapped against the latter strip at the inner circumference of the bead, and a tread encircling said ply.

1,459,363. SPRING WHEEL. FRANK L. CULVER and GEORGE W. HORJES, Los Angeles, Calif.; said Horjes assignor to said Culver. Filed Nov. 27, 1920. Serial No. 426,834. 9 Claims. (Cl. 152—28.)



2. A spring wheel comprising a plurality of annuli of graduating diameters arranged between the rim and hub, and springs secured to certain of the annuli and having sliding contact with the other annuli.

1,459,364. BRACKET. BOLESLAW V. CZARNECKI, Schenectady, N. Y. Filed Dec. 15, 1921. Serial No. 522,559. 2 Claims. (Cl. 156—24.)



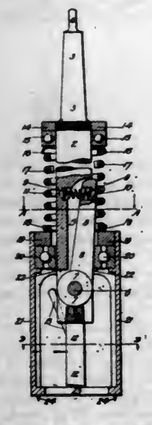
1. A stamped metal article of manufacture comprising a single length of metal having diverging bends extending from the same point adjacent one end of the metal to form a triangular striking head, adapted to flatly contact with the front of the window frame, and an attaching blade adapted to enter the front of the frame, the other end portion of the metal being extended outwardly to form article supporting means, said attaching blade being formed with a series of indentations forming irregularities on opposite sides of the blade by means of which the blade may be securely anchored in position.

1,459,365. AUTOMOBILE BUMPER. FRANK JOSIAH DAINS, Cedar Rapids, Iowa. Filed Apr. 11, 1923. Serial No. 631,421. 6 Claims. (Cl. 293—55.)



4. In a bumper for automobiles, heads having an upper and lower bar secured to them, piston rods connected to the heads and shock absorbing mechanism with which the piston rods coact.

1,459,366. EXPANDING AUGER. AMOS GOSPER, Banksia, near Sydney, New South Wales, Australia, assignor to Henry Petrie Fletcher, Sydney, New South Wales, Australia. Filed Aug. 31, 1921. Serial No. 497,252. 2 Claims. (Cl. 145—124.)



1. A tool for boring reverse taper holes comprising a spindle, a pivoted cutter control member carried by the spindle, a cutting element carried by the member, a work holder slidably mounted in relation to the spindle, a bearing in the holder including a member through which the spindle and control member extend and arranged for actuating the control member and hence the cutter, a second bearing for the spindle, and a spring between the bearings for returning the holder to initial position upon completion of boring, and for also returning the control member and the cutter to initial position synchronously with the holder.

1,459,367. ARTICLE-FEEDING DEVICE. NEWELL H. HAWES, Arlington, Mass., assignor to Wm. F. Schrafft & Sons, Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1920. Serial No. 358,483. 25 Claims. (Cl. 198—30.)



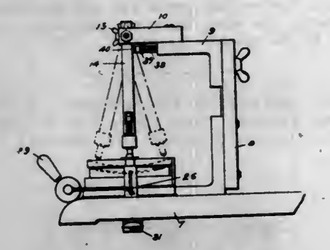
1. An article feeding device comprising a conveyor belt adapted to support a plurality of articles, a grid arranged for combined lateral and longitudinal reciprocatory movement above said belt and arranged to engage the articles on the belt and displace them on said belt and also rotate them into orderly rows on the belt, and means to reciprocate said grid both laterally and at the same time longitudinally above said belt.

1,459,368. AUTOMATIC PACKER, FLOWHEAD, AND PUMPING DEVICE. GEORGE C. HENSHAW and WILLIAM H. MYERS, Ranger, Tex. Filed Aug. 27, 1921. Serial No. 496,058. 6 Claims. (Cl. 166—3.)



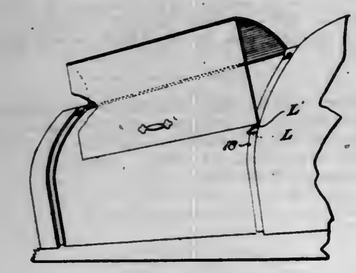
1. A device of the character described comprising a flow head provided with a chamber having a liquid inlet and a liquid outlet, a plurality of ejector nozzles in the chamber around the liquid inlet, and discharging in the direction of the outlet, and a packer on the flowhead for preventing the passage of gas past the outside thereof, said packer also having an internal gas passage and the flow head having a continuation of said gas passage leading to the ejector nozzles.

1,459,369. GLASS CUTTER. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 2, 1920. Serial No. 370,723. 9 Claims. (Cl. 33—28.)



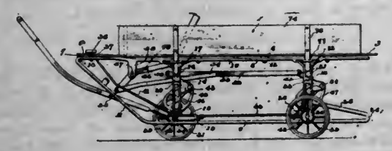
1. A device of the character described, a supporting bracket, a cutting point, a swinging support therefor carried by the bracket, means for varying the distance between the cutter and bracket to adjust the radius of the arc through which the cutter swings, and means for limiting the swinging movement of the cutter in one direction.

1,459,370. AUTOMOBILE HOOD REST. GARNET B. HOLMES, Los Angeles, Calif., assignor of one-half to Perry M. Grant, Venice, Calif. Filed Mar. 1, 1922. Serial No. 540,360. 5 Claims. (Cl. 180—69.)



2. A hood rest comprising an attaching leaf, a supporting leaf movably sustained on the attaching leaf and formed with spaced longitudinally extending ridges and a transverse ridge, said longitudinally extending ridges being inclined upwardly to a point intermediate the ends of the leaf, and a transverse ridge connecting the first ridges at the upper ends of the latter.

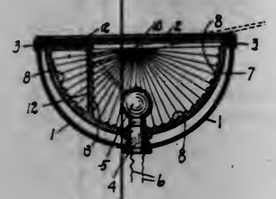
1,459,371. CONVERTIBLE VEHICLE. ANDREW J. KELLY, Baltimore, Md., assignor of one-half to John Ira Kelly, Baltimore, Md. Filed Apr. 18, 1922. Serial No. 554,900. 8 Claims. (Cl. 280—11.)



3. In a vehicle of the class described, a body, side frames supporting the body and including runners, front

and rear axles mounted for up and down adjustment in the frames, wheels supporting the axles, shafts mounted in the frames above the axles, cams carried by the shafts and coacting with the axles to depress the latter when the shafts are rotated in one direction, means operable to rotatably adjust the shafts, and operative connection between the shafts and the respective axles for elevating the axles when the shafts are rotatably adjusted in the opposite direction.

1,459,372. REFLECTOR FOR LIGHTS. CHARLES E. KISTNER, Cincinnati, Ohio. Filed Nov. 28, 1921. Serial No. 518,449. 3 Claims. (Cl. 240—41.)



1. A headlight including a reflector provided with substantially parallel vertical reflecting corrugations, a source of light arranged within said reflector, a lens, and a substantially vertical reflecting wall extending from a position at one side of the source of light and from the reflector surface to said lens, said wall being constructed and positioned so as to bend and diffuse some of the light rays out of their forwardly extending course.

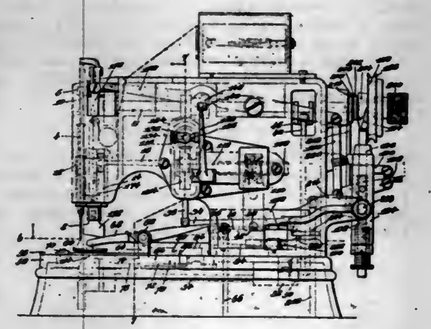
1,459,373. LENS. MAX ALFRED LAABS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 12, 1921. Serial No. 436,669. 5 Claims. (Cl. 88—54.)



1. A multifocal lens including a major blank and a separate segment secured to the major blank, one of the parts having a concave curve and the other part having a portion fitting said curve, the segment and major portion being of glasses of different index of refraction, and the segment having a curve on its exposed face neutralizing the addition produced in the lens due to difference in index of refraction of the parts.

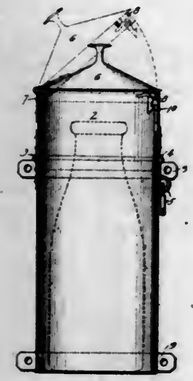
1,459,374. BUTTONHOLE-SEWING MACHINE. BERNARD T. LEVEQUE, Wenham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 28, 1917. Serial No. 165,105. 21 Claims. (Cl. 112—73.)

1. A buttonhole sewing machine, having, in combination, stitch forming mechanism, a work holder, feed mechanism for relatively feeding the stitch forming mechanism and work holder, a clutch rotating in a



uniform direction for actuating the feed mechanism, and mechanism for engaging the clutch for an interval during each stitch forming cycle.

1,459,375. SAFETY RECEPTACLE FOR BOTTLES AND THE LIKE. CHRISTOPHER BLOM OLSEN, Jr., Honolulu, Territory of Hawaii. Filed July 24, 1922. Serial No. 577,085. 4 Claims. (Cl. 232—41.)



1. A safety receptacle for bottles and the like, comprising a main section, a supplementary section hinged thereto and forming an extension thereof, means for locking said sections together, a cover closing the top of the supplementary section, and means accessible only from within the receptacle for locking the cover to the supplementary section.

1,459,376. DETACHABLE TIRE TREAD. EDWIN A. PARKER and HARRY G. EVITT, Baltimore, Md. Filed Aug. 23, 1921. Serial No. 494,457. 2 Claims (Cl. 152—16.)

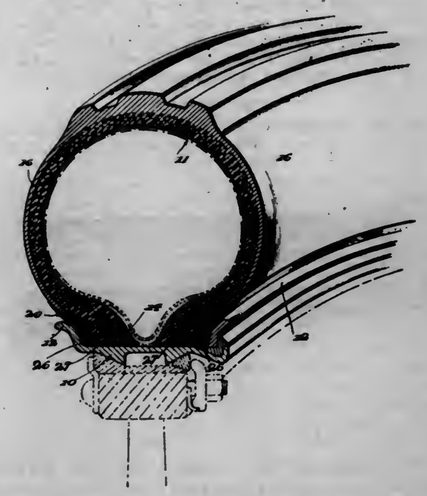
1. The combination with a tire having recesses in the periphery thereof, of a detachable tread having beads

on its inner surface adapted to fit into the recesses of the tire, and a number of suction apertures in its inner



surface to prevent said detachable tread from creeping on the tire casing.

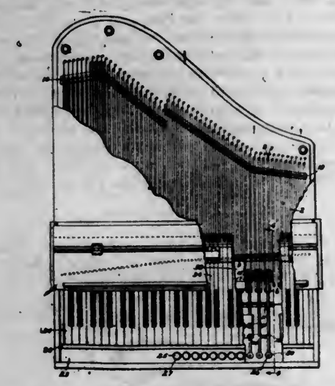
1,459,377. REENFORCING STRIP FOR TIRES. MARK B. PEEPLES, Scotia, S. C. Filed Dec. 29, 1922. Serial No. 609,722. 2 Claims. (Cl. 152—20.)



2. A protecting and reenforcing strip for tires comprising a yieldable annular rubber body adapted to be applied to the side of the bead of a tire, and having its upper edge tapered to overlap and protect the edge of the rubber covering of the tire, said annular rubber body being yieldable and constituting a means to space the flange of the rim from engagement with the fabric bead of the tire and to exclude foreign matter from between the flange of the rim and the tire bead, the lower edge of the strip being provided with a wide inwardly directed base flange to underlie the bead of the tire, the inner surface of the rubber body being bulged substantially.

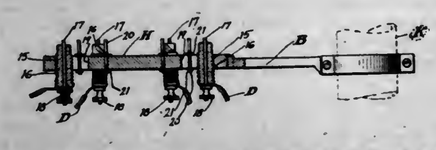
1,459,378. TREMOLO FOR PIANOS. HENRY F. SCHENUIT, Pasadena, Calif. Filed Feb. 24, 1919, Serial No. 278,759. Renewed May 3, 1923. 1 Claim. (Cl. 84—313.)

In a piano including piano keys, a bridge, strings and hitch pins, levers connected to the strings between the bridge and hitch pins for bending the strings, and keys mounted in front of the piano keys and connected to



the levers for operating the levers to produce the tremolo effect.

1,459,379. TESTING DEVICE FOR SPARK PLUGS. ADAM S. SHIMA, Pasadena, Calif. Filed Mar. 9, 1922. Serial No. 542,329. 4 Claims. (Cl. 175—183.)

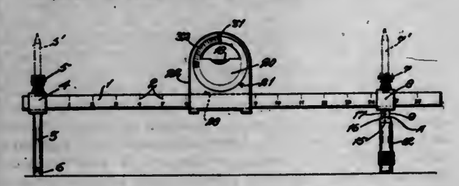


2. A spark plug tester comprising a head formed with openings and slots, with each slot disposed adjacent an opening, plugs of insulating materinl threadedly fitted within said openings, electrodes mounted in said plugs, other electrodes adjustable within said slots and cooperating with the first electrodes to provide spark gaps, and means for locking the second electrodes in any adjusted position.

1,459,380. LENS-PROTECTING COMPOSITION. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 27, 1920. Serial No. 426,747. 5 Claims. (Cl. 134—14.)

3. A composition for application to a lens surface comprising substantially 88 parts benzol, 10 parts resin, and 2 parts tar oil.

1,459,381. SPIRIT LEVEL. JOSEPH VON SERKEY, San Francisco, Calif. Filed Feb. 24, 1921. Serial No. 447,509. 1 Claim. (Cl. 33—207.)



In a spirit level, the combination of a graduated bar, two supports slidable thereon in parallel relation to each other, one of the supports having a spindle threaded at its lower end, an internally threaded sleeve oper-

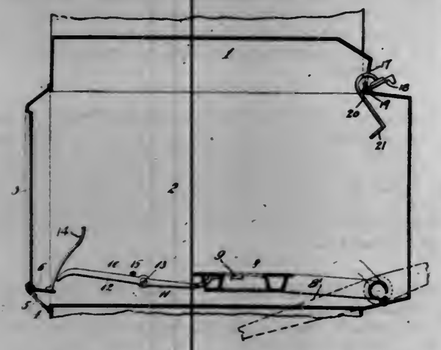
atively engaging the spindle whereby the latter may be raised and lowered, and indicating means on the spindle and sleeve for indicating the rise or fall of the spindle relative to a zero point in full and fractional revolutions, and level finding means comprising a frame slidably mounted on the graduated bar, and having a circular aperture, a circular frame mounted in the aperture with freedom of limited rotary motion, and having a spring associated therewith for offering frictional resistance to the rotary motion, a spirit tube attached wihin the circular frame, and indicating means on the two frames disclosing the relative angle between the spirit level and the bar, all substantially as set forth.

1,459,382. LINGERIE CLASP. ARTHUR J. WAGNER, Rochester, N. Y. Filed July 12, 1922. Serial No. 574,423. 5 Claims. (Cl. 24—259.)



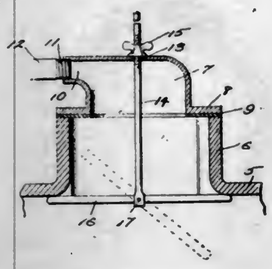
1. In a clasp, the combination of a loop, hooked shaped ends formed on one side of said loop, said hook shaped ends being adapted to overlap each other to close said loop, a spring member suspended in said loop, one end of said spring member being adapted to pass through one of the hook shaped ends into the other of said hook shaped ends of said loop and lock said ends into their overlapping position.

1,459,383. AIR-INLET CONTROL FOR COMBINATION COAL AND GAS RANGES. CLARENCE F. WILEY, Taunton, Mass., assignor to Magee Furnace Company, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1919. Serial No. 327,723. 6 Claims. (Cl. 126—36.)



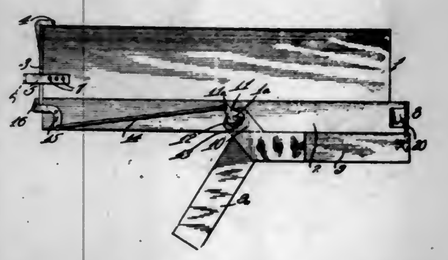
1. A combination coal and gas range provided with an oven having an air inlet, a gravity-actuated damper normally closing said inlet, said damper having a member fixed to and projecting from it by which the damper may be moved to and maintained in an open position, a burner arranged within the oven and movable to assume therein either an upturned or downturned position, and a pivoted lever adapted and arranged whereby it will normally assume an out-of-the-way position with relation to said member and whereby also said lever will be turned to engage said member and open said damper and maintain it in an open position by the movement of the burner to its downturned position and the assumption by the burner of such position.

1,459,384. FLUSHING ATTACHMENT FOR AUTOMOBILE RADIATORS. ROBERT H. WILKINSON, Ponca City, Okla. Filed July 24, 1920. Serial No. 398,675. 1 Claim. (Cl. 285—29.)



In a flushing device, the combination with an automobile radiator having a filling inlet, of a coupling casing to fit over the upper end of the inlet and having a radial extension for connection with a water supply conduit, an up-standing rod extending through an opening in the top of the casing and having its upper portion threaded, a radial bar pivoted to said rod and being of greater length than the diameter of said inlet, said bar being capable of angular adjustment to permit its insertion in the inlet, and a nut carried by the threaded portion of the rod whereby the rod may be drawn upwardly so the ends of said bar will engage beneath the lower end of the inlet clamping the casing to the inlet.

1,459,385. DUMP BODY. ERNEST C. WILLS and ERNEST S. WILLS, Clinton, Iowa. Filed Apr. 19, 1922. Serial No. 555,605. 1 Claim. (Cl. 298—23.)

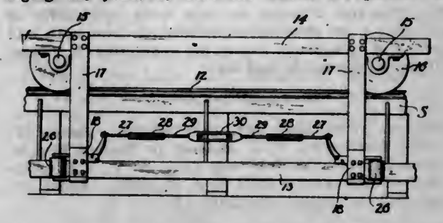


The combination with a vehicle frame; of brackets extending obliquely and rearwardly upward from opposite sides thereof, a tilting body mounted between said brackets and pivotally connected therewith at a point in advance of the center of said body, plates mounted on the pivots of said body having arcuate slots therein concentric with said pivot, a set screw extending through each of said slots to secure said plates in adjusted position, an arm extending radially from each plate, a rod pivoted at one end to the free end of each arm, means for limiting the tilting movement of the body, said body having an outwardly swinging end gate, a bell crank lever pivoted on said body adjacent said gate and having a lip for engaging the gate to lock it in closed position, said rod being connected with said bell crank whereby tilting of the body will exert a pull on the rod to release the bell crank.

1,459,386. MONORAIL CAR. THOMAS H. WRIGHT, Los Angeles, Calif. Filed Feb. 15, 1923. Serial No. 619,114. 6 Claims. (Cl. 105—145.)

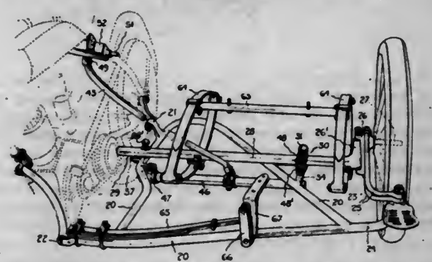
1. A monorail car comprising a chassis, yokes mounted for rocking movement on and at opposite sides of the

chassis, wheels carried by the yokes, and means for urging the yokes so that the wheels are pressed in-



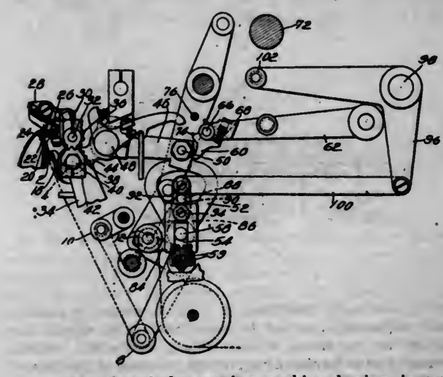
wardly, the means at either side of the chassis being common to all of the yokes at the respective side of the chassis.

1,459,387. SIDE CAR OF MOTOR CYCLES. JOHN ALBERT YEATS, Richmond, and ALBERT SAMUEL SWAN, Coburg, Victoria, Australia. Filed Mar. 28, 1921. Serial No. 456,366. 12 Claims. (Cl. 208—45.)



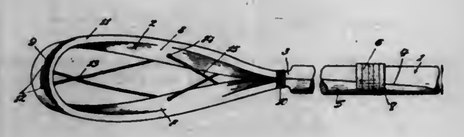
1. A chassis for side cars of motor cycles comprising a frame having a pivotal connection with a cycle frame, a transverse axle movably mounted on the chassis frame and having a spindle pivotally mounted on the outer end thereof for carrying the side car wheel, and means for connecting the pivot part of the said spindle to a forward part of the chassis frame whereby the side car wheel will be free to turn in conformity with the front wheel of the cycle.

1,459,388. WAX-THREAD SEWING MACHINE. FREDERIC E. BEATRAND, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 8, 1917, Serial No. 173,555. Renewed June 26, 1920. Serial No. 392,044. 9 Claims. (Cl. 112—60.)



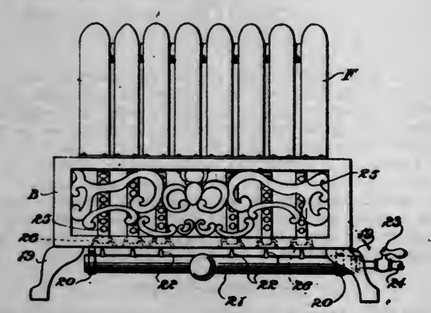
1. A wax-thread shoe sewing machine, having, in combination, stitch forming devices, a work support, a presser-foot, means for lifting the presser foot during each cycle of operations, an oscillating pull-off, means for actuating the pull-off to draw thread from the supply during each cycle of operations, connections controlled by the position of the presser-foot as determined by the thickness of the work for varying the active throw of the pull-off, and means for rendering said connections ineffective upon the pull-off during the lifting of the presser-foot.

1,459,389. GAME APPLIANCE. LOUIS C. BROWN, Sasakwa, Okla. Filed Dec. 30, 1921. Serial No. 525,992. 3 Claims. (Cl. 46—4.)



1. A game appliance comprising a handle formed from wood or similar material thinned for a portion of its length and having its thinned portion looped back upon itself with its terminal part resting against one side of the handle and thereby providing an open substantially elliptical head, and a thong secured about the handle and about the said terminal part.

1,459,390. GAS RADIATOR. WILLIAM H. CAIN, Los Angeles, Calif. Filed Feb. 9, 1922. Serial No. 535,140. 3 Claims. (Cl. 126—91.)

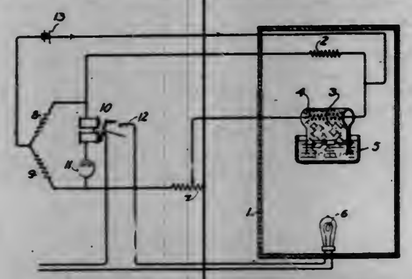


1. A gas radiator comprising a hollow body divided along its length into a front compartment and a rear compartment with the front wall of the front compartment formed with openings, radiant heating elements arranged within the front compartment, flues superimposed on the body and communicating with said compartments, and a discharge opening in the rear compartment.

1,459,391. HUMIDITY INDICATING AND REGULATING DEVICE. HENRY P. CLAUSEN, Mamaroneck, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1920. Serial No. 356,053. 2 Claims. (Cl. 236—44.)

1. A humidity responsive device comprising parallel electrical circuits, a dry resistance element in one of said circuits, a wet resistance element in the other of said circuits, each of said elements having a resistance coef-

ficient varying with temperature, means for supplying current to said circuits, an electrical indicating instrument and a switch device both responsive to current ratio fluctuations in said circuits, and an electrical heater, controlled by said switch device.

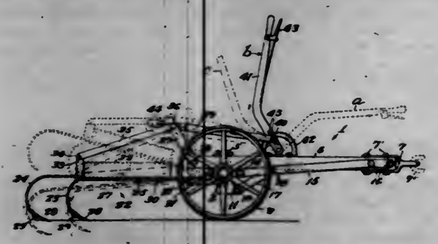


1,459,392. CLEAR-VISION WINDSHIELD. WILLIAM DE F. CROWELL, St. Louis, Mo. Filed Apr. 19, 1920. Serial No. 374,995. 8 Claims. (Cl. 296—84.)



3. A wind shield of the updraft type provided with a combined sunshade and flue member, an adjustable supporting structure that carries said member and which is adapted to be arranged in different positions so as to change the angle of said member when it is used to form a sun-shade, a pivotal connection between said member and supporting structure that permits said member to be moved relatively to said supporting structure into an upright position, wherein it forms one wall of an updraft flue, and means for retaining said member in said upright position.

1,459,393. INTERCHANGEABLE CULTIVATING AND TRENCH-FORMING APPARATUS. JOHN REEDER GARDINER, Fullerton, Calif. Filed June 30, 1919. Serial No. 307,794. 4 Claims. (Cl. 97—157.)



1. In a cultivating apparatus comprising a truck having an axle, draw-bar connections secured to the axle, and cultivator implements adapted to be pivotally connected to said draw-bar connections; means to elevate and lower said cultivator implements; said means having a lever mounted on said truck in advance of the axle, a strut pivotally mounted on said truck rearwardly of said axle; a bar pivotally connecting the lever with said strut, and detachable means for connecting a ground working implement to said strut.

1,459,394. CENTRIFUGAL GOVERNOR. EDGAR W. GENT, Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1921. Serial No. 502,247. 9 Claims. (Cl. 188—185.)

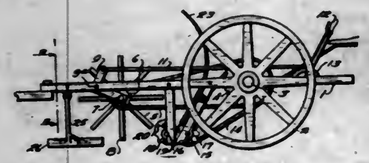


1. In a centrifugal governor, a stationary member having an annular surface, a rotatable member having a socket therein, an arm pivoted on the rotatable member and in frictional engagement with the annular surface of said stationary member, a ball fitting in the socket of the rotatable member and adapted to press against the arm and to cause it to bear upon the annular surface of the stationary member under the influence of centrifugal force.

1,459,395. PROCESS OF PURIFYING LACTIC ACID. TONI HAMBURGER, Berlin-Dahlem, Germany, assignor to Chemische Fabrik vorm. Goldenberg Geromont & Cie., Wiesbaden, Germany. Filed Sept. 23, 1921. Serial No. 502,782. 10 Claims. (Cl. 260—122.)

8. The process of producing pure lactic acid which consists in treating substances adapted for lactic-acid fermentation, so as to produce fermentation, generating lactic acid thereby, neutralizing the excess of lactic acid which is injurious to fermentation, with a suitable magnesium salt, thereby forming magnesium lactate, decomposing said magnesium lactate, separating the resulting lactic acid, dissolving said lactic acid in a solvent, and removing said solvent.

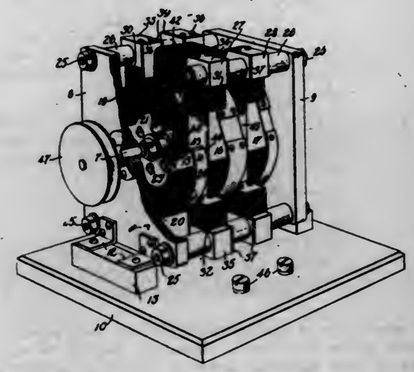
1,459,396. INSECT DESTROYER. RAGNAR O. HEGGELUND, Lake Preston, S. Dak. Filed Feb. 11, 1922. Serial No. 535,925. 2 Claims. (Cl. 43—142.)



1. In an insect destroyer, a wheeled frame, a paddle wheel adjustably carried in said frame and driven by rotation of the frame wheels, rotary contacting rollers carried by said frame and driven by rotation of the frame wheels, a shield arranged in the frame and having one end disposed immediately above said rollers, angular

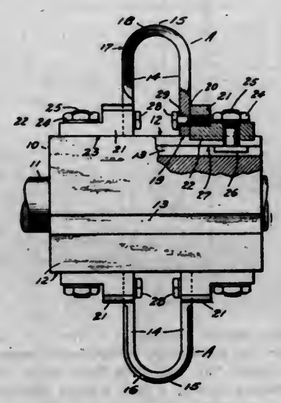
arms suspended pivotally from said frame, and shoes carried by said arms and normally in yielding engagement with each other.

1,459,397. SELF-INDUCTION COIL. RAYMOND R. HERRMAN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 2, 1919. Serial No. 294,217. 13 Claims. (Cl. 171—242.)



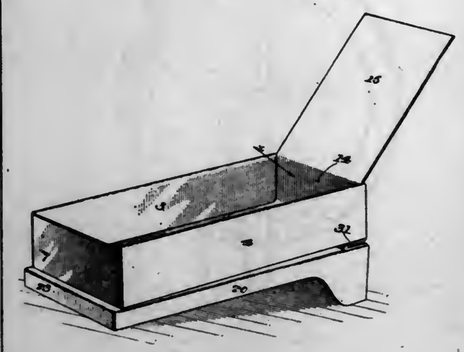
6. A magneto-electric device comprising a rotor, a stator framework, a shaft for said rotor, and a coil surrounding said framework and positioned at one side of said shaft, said rotor comprising a plurality of separated discs on said shaft located on opposite sides of a portion of said stator.

1,459,398. PLANER KNIFE. JOSEPH HIMES, Seattle, Wash., assignor to Henry Disston & Sons, Seattle, Wash., a Corporation of Washington. Filed Apr. 1, 1922. Serial No. 548,730. 4 Claims. (Cl. 144—235.)



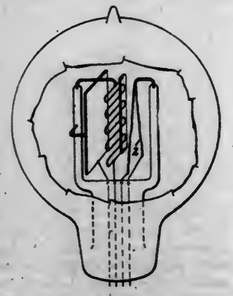
1. The combination with a planer head, and a knife formed of a single piece which is formed to provide two substantially parallel side elements and a curved element connecting the outer ends of said side element, of a block disposed at each side of the knife, said blocks being respectively provided with recesses to receive the adjacent side elements of the knife, a tongue protruding from each block to engage in the head, means to secure the knife to the blocks, and means to secure the blocks to the head.

1,459,399. COLLAPSIBLE DISPLAY BOX. HERBERT SACHS HIRSCH, Newark, N. J. Filed Jan. 13, 1922. Serial No. 528,973. 13 Claims. (Cl. 206—44.)



1. A box having a cover and a hinge panel connecting the cover to the bottom of the box and adapted to lie along the end of the cover when the cover is closed.

1,459,400. ELECTRON-EMITTING CATHODE AND PROCESS OF MAKING THE SAME. CARL D. HOCKER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 17, 1916. Serial No. 131,858. 28 Claims. (Cl. 250—27.)

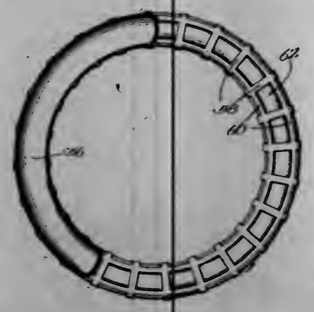


23. The process of manufacturing an electron emitting filament which comprises coating a metallic core with an alkaline earth oxide, treating said filament with silver at a temperature below the volatilization point of silver, and then heating said filament to a temperature above the volatilization point of silver.

1,459,401. REENFORCED RIBBED PNEUMATIC TUBE. LOUIS W. HOTTEL, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,974. 2 Claims. (Cl. 152—13.)

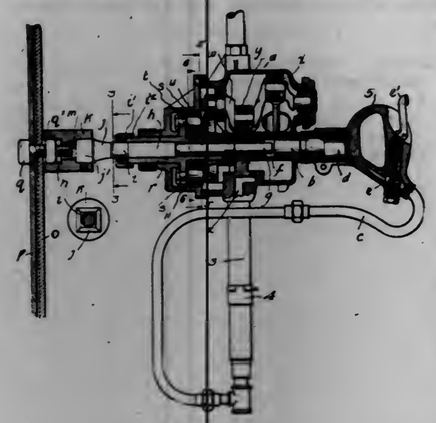
1. An inner tube for pneumatic tires provided with a plurality of reinforcing ribs each completely circumscrib-

ing one of the surfaces of the tube transversely of the latter, and a plurality of reinforcing ribs each completely



circumscribing the same surface of the tube lengthwise of the latter and intersecting the transversely disposed ribs.

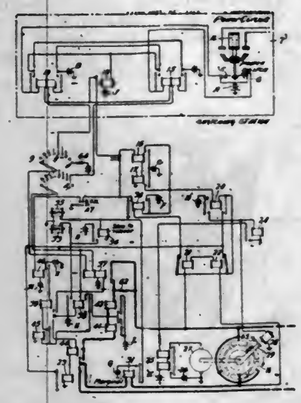
1,459,402. SCREW-BOLT-NUT-TIGHTENING MEANS. PETER A. JOHNSON, Portland, Oreg., assignor to Thomas V. Standifer, Portland, Oreg. Filed May 19, 1921. Serial No. 470,927. 4 Claims. (Cl. 81—55.)



1. In a device of the character described the combination of a power driven reciprocating hammer, a device actuated by the hammer, said device having a head adapted to be slidingly engaged with the nut on a screw-bolt and in one position projecting beyond the bearing face of the nut, thereby to strike a blow on the piece on which said nut bears, and power driven means for rotating said device, the rotating means being adapted to permit the movement of said device by the impact of said hammer.

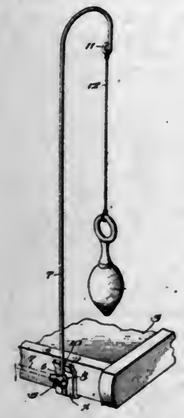
1,459,403. SIGNALING SYSTEM. CHARLES W. KECKLER, Newark, and WALTER B. STRICKLER, East Orange, N. J., assignors to Western Electric Company Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1919. Serial No. 325,403. 9 Claims. (Cl. 177—353.)

1. A signaling system comprising a first and a second station, a plurality of switches located at said first station, a rotary interrupter operative upon the actuation of one of said switches, a loop circuit, an automatic selector switch at each of said stations, means in the loop circuit operated by said interrupter for driving the automatic selector switches in synchronism, a signal device at the second station individual to each of the switches at the first station, and means responsive upon



the connection of the automatic selector switch with a desired one of the contacts thereof for causing the operation of said signaling device to furnish a distinctive signal.

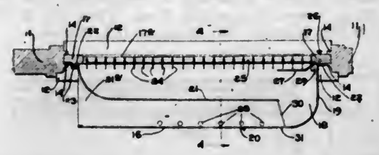
1,459,404. SUPPORTING DEVICE. RAY C. KLEFFMAN, Chicago, Ill., assignor of one-third to John Kleffman, Hibbing, Minn. Filed July 5, 1921. Serial No. 482,293. 1 Claim. (Cl. 248—20.)



A supporting device including a rod; a mounting bracket for the rod having an upright side whose upper end is bent toward the rod, this bent upper end portion of the bracket having a slot formed therein to receive the rod adjacent its mounted end to prevent the rod from being swung upon its mounting; a bolt struck from and carried by the upright side of the bracket; and a nut upon the bolt for clamping the rod between it and the bracket.

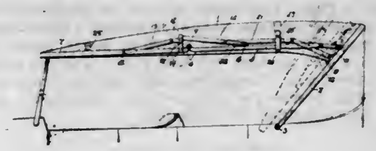
1,459,405. CAR VENTILATOR. HOSMER W. LEEDS, Seligman, Ariz. Filed Mar. 31, 1920. Serial No. 370,236. 6 Claims. (Cl. 98—22.)

1. In a ventilating device, a frame adapted for insertion in a vehicle window, and a hood engaged with the frame for end for end reversal thereon and forming with the opening in the frame an air passage having its



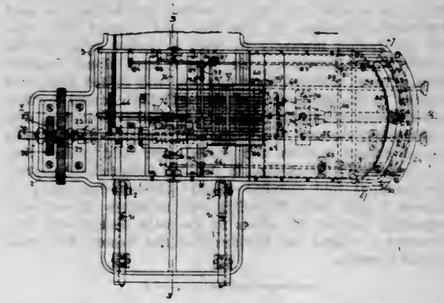
inlet and outlet at a substantial angle to each other, whereby to adapt the one device for the intake or exhaust ventilation of a vehicle moving in either direction.

1,459,406. TOP FOR VEHICLES AND THE LIKE. FRED K. LEWIS, Ashtabula, Ohio. Filed Oct. 29, 1921. Serial No. 511,304. 5 Claims. (Cl. 296—116.)



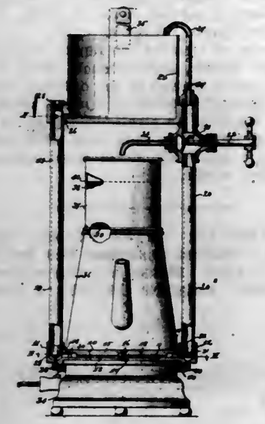
1. In a top for vehicles and the like, the combination of a support pivotally attached to the body of the vehicle; a rigid brace pivotally attached to said support and inclining forwardly therefrom in the open position of the top; a forwardly extending articulated auxiliary bow pivotally attached to said brace and extending to the rear of the same; a link connecting such bow extension with said support; and two links lying above said auxiliary bow, said links being pivotally connected together at their inner ends and pivotally connected at their outer ends to the parts of said bow on either side of the joint therein, said links being operatively connected with said brace.

1,459,407. MACHINE FOR EFFECTING SLOTS IN CARDS FOR STATISTIC OR SIMILAR PURPOSES. KARL EMIL LEONARD LIEDSTRAND, Stockholm, Sweden. Filed July 16, 1919. Serial No. 311,300. 8 Claims. (Cl. 164—94.)



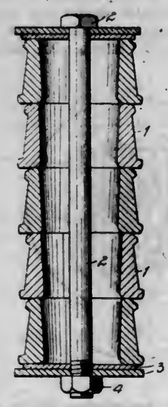
1. In a machine for slotting cards for statistical or similar purposes, a plurality of pairs of dies of different lengths, the dies of the said pairs extending from points with the same position in respect to an imaginary plane in the machine and the total effective length of the dies by pairs being unvariable, and means for actuating the dies.

1,459,408. WATER HEATER WITH PERCOLATOR. ANDREW M. LOCKETT, New Orleans, La. Filed June 26, 1922. Serial No. 570,994. 8 Claims. (Cl. 53—3.)



1. A water heater comprising a lower heating plate, an upper plate arranged in proximity to said lower plate and forming therewith a shallow water-space between said lower and upper plates, a reservoir above said lower heating plate, a tube having one end communicating with said reservoir and its other end with the space between said lower and upper plates, a second tube having one end communicating with the space between the lower and upper plates and its other end provided with a feed pipe having its opening situated between said reservoir and upper plate.

1,459,409. PROCESS OF CARBURIZING HOLLOW ARTICLES. HARRY W. MCQUAID, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 9, 1922. Serial No. 527,971. 6 Claims. (Cl. 148—19.)



1. The improvement in the process of carburizing the inner or outer surface of hollow articles without carburizing the other surface thereof which consists in assembling such articles axially and clamping the same together in assembled relation by means that will exclude carburizing agent from such other surface without inert packing.

1,459,410. RECOVERY OF BY-PRODUCTS IN MERCURY FULMINATE MANUFACTURE. ROBERT C. MORAN, Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 17, 1920. Serial No. 389,729. 10 Claims. (Cl. 260—156.)

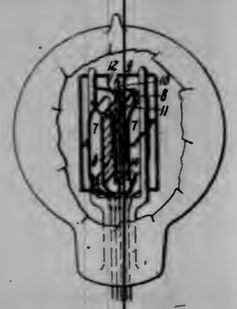
9. The process of treating the liquor, containing ethyl formate, ethyl nitrite, and alcohol, obtained by condensation of vapors evolved in the ordinary manufacture of mercury fulminate, which comprises subjecting said liquor to the action of an alkali-forming metal hydroxide until the ethyl formate is saponified, while maintaining the temperature below 20° C. to avoid substantial hydrolysis of ethyl nitrite.

1,459,411. VEHICLE. GEORGE FRANCIS MYERS, New York, N. Y. Original application filed Aug. 23, 1909, Serial No. 514,165. Divided and this application filed Nov. 20, 1916. Serial No. 132,359. 4 Claims. (Cl. 244—14.)



1. A flying machine of the heavier-than-air type comprising a main body normally having its longitudinal axis substantially horizontal and extending in the direction of travel, a supporting plane attached to said body at a point intermediate its ends but well forward of its rear end, a second plane also attached to said body and at a point adjacent its rear end, one of said planes normally having its anterior portion higher than its posterior portion and curved from front to rear and one of said planes being pivotally attached, and a stabilizer for transverse equilibrium trailing in the rear of the first mentioned plane.

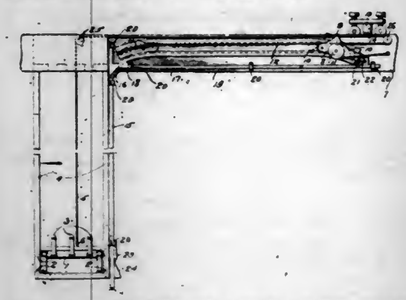
1,459,412. THERMIONIC TRANSLATING DEVICE. ALEXANDER MCL. NICHOLSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 21,918, filed Apr. 16, 1915. This application filed Sept. 10, 1919. Serial No. 322,944. 27 Claims. (Cl. 250—27.)



1. In a thermionic translating device, means for producing a thermionic discharge therethrough substantially independent of gas ionization, said means comprising a solid equipotential cathode surface and a heat radiating body in close proximity to said surface.

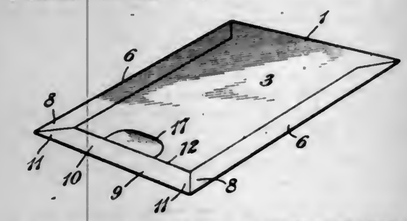
26. A thermionic translating device comprising a cathode surface, an electric heater, and heat conducting means connecting said surface and said heater, said means being a non-conductor of electricity.

1,459,413. CONVEYER FOR TICKET-DISTRIBUTING SYSTEMS. HENRY M. OTTO, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1920. Serial No. 429,256. 30 Claims. (Cl. 214—1.)



1. In a ticket distributing system, in combination, a ticket hoisting carriage, means for holding a ticket therein, a continuously operating source of power, means for connecting said carriage with said source of power, means for automatically disengaging said carriage from said power and means for automatically disengaging said ticket in a condition for collection.

1,459,414. ENVELOPE. FREDERICK J. PARKS, New York, N. Y. Filed Apr. 16, 1917. Serial No. 162,247. 3 Claims. (Cl. 229—76.)

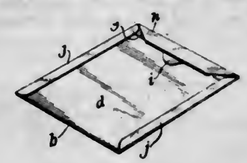


1. An envelope formed from a blank, said blank consisting of a rectangular portion whose free end is to be double-folded, said rectangular portion being connected to a wider second portion having side edges to be creased and folded and whose free end is to be triple-creased and folded, said envelope having said two portions folded upon one another, a two-ply pocket flap formed on said first-named portion on the free end thereof with the end ply facing inwardly to form a pocket adjacent the mouth of the envelope, side flaps formed along opposite sides of said second named portion and folded back and secured to the side edges of the said first named portion and the corresponding edges of the said pocket flap, and a three-fold closure flap formed on the free end of said second named portion and folded over said pocket flap and detachably interlocked in doubled form in said pocket, the terminal fold member of said closure flap being of greater length than the other fold members thereof and extending beyond the edges of the said pocket and constituting a tongue for withdrawing the closure flap from the said pocket.

1,459,415. PROCESS OF AUTOMATICALLY MANUFACTURING ENVELOPES. FREDERICK JAMES PARKS, New York, N. Y. Original application filed Apr. 11, 1917, Serial No. 161,166. Patent No. 1,316,737, dated Sept. 23, 1919. Divided and this application filed Aug. 23, 1918. Serial No. 251,174. 4 Claims. (Cl. 229—76.)

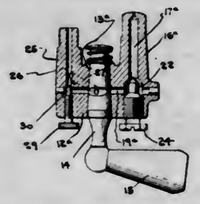
1. In a process of automatically manufacturing envelopes, the steps which consist, in conjointly folding

the superposed ends of a doubled blank transversely at points adjacent to each other to form a separable closure



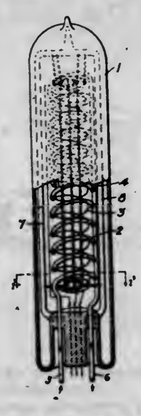
member in interlocked relation with a retaining pocket; closing the lateral edges of the blank and fastening said pocket.

1,459,416. GAS COCK. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed July 5, 1921. Serial No. 482,387. 9 Claims. (Cl. 158—115.)



4. In combination with a manifold and a gas cock mounted in superposed relation, said cock comprising a body having a passage adapted to discharge into a burner, a valve chamber parallel with and located laterally to one side of said passage, a port connecting said chamber with said passage, a port connecting the underside of said manifold with said chamber, a valve member operable in said chamber and adapted to control the flow of gas from the manifold to said discharge passage, and supplemental means for adjustably controlling the flow of gas through said passage.

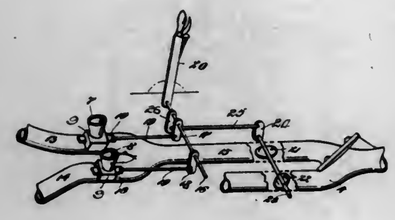
1,459,417. ELECTRON-DISCHARGE DEVICE. PAUL SCHWERIN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 1, 1916. Serial No. 128,876. 30 Claims. (Cl. 250—27.)



1. An electron discharge device comprising a gas-tight vessel containing a filament, an anode, and an auxiliary electrode, said anode being composed of a metallic conduit, said conduit being in the form of a helix in the interior of said vessel, and having its ends projecting outside the vessel so that a cooling liquid may be caused to flow therethrough.

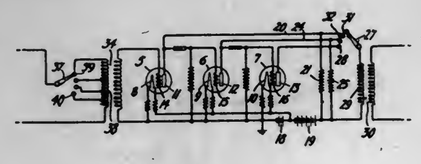
25. A thermionic device comprising a cathode and a hollow anode, said anode being in the form of a helix.

1,459,418. ANTISKIDDING DEVICE FOR MOTOR VEHICLES. JAMES R. SCOTT, St. Louis, Mo. Filed July 17, 1922. Serial No. 575,480. 2 Claims. (Cl. 291—3.)



1. In combination, an exhaust pipe, a fluid pressure pipe, a valve for each pipe, a rocker shaft, a connection between said rocker shaft and the valves, a pair of sand distributing pipes communicating at one end with the fluid pressure pipe, a sand discharge hopper mounted upon each sand distributing pipe, a slide valve for each hopper, a connection between the rocker shaft and each slide valve and an operating lever fixed to said rocker shaft for actuating the aforesaid first mentioned valves and the slide valves simultaneously.

1,459,419. MULTISTAGE AMPLIFIER CIRCUITS. EDWARD O. SCRIVEN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,672. 17 Claims. (Cl. 179—171.)

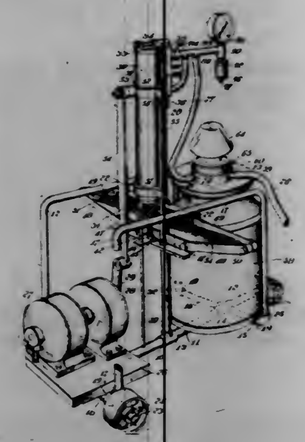


1. A multi-stage amplifier set comprising a plurality of electric discharge amplifiers and switching means for providing a unified control of said amplifiers whereby the number of effective stages of amplification of said set may be varied.

1,459,420. MILKING MACHINE. WARREN A. SHIPPERT, Chicago, Ill., assignor to The Burton Page Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 6, 1920. Serial No. 363,733. 22 Claims. (Cl. 31—98.)

1. In a cow milking machine, the combination of a milk chamber comprising an inverted vessel and means for supporting the same, a conduit leading from the cow to the milk chamber, means for alternately exhausting air from and introducing air into the milk chamber, comprising an exhaust conduit which extends into the upper part of the milk chamber; the latter being conformed so as to have a relatively small cross sectional

area at the top and a greater cross sectional area at a distance below the upper extremity of said last mentioned conduit.



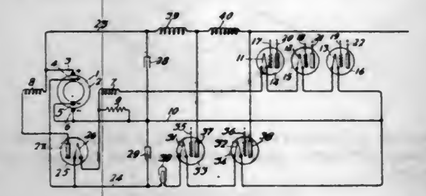
19. In a milking machine, the combination of means providing a milk receiving space, a milk-conduit leading to said space, a reciprocating pump for exhausting the air from said space intermittently at alternate strokes, a motor for driving said pump, and a spring which is stressed on each return stroke of the pump.

1,459,421. TARGET-THROWING DEVICE FOR TRAP SHOOTING. CLYDE HAROLD SLUSHER, Lexington, Mo. Filed Aug. 10, 1922. Serial No. 581,024. 1 Claim. (Cl. 124—6.)



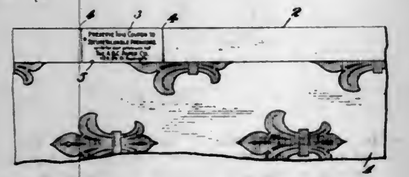
The combination with a target throwing machine for trap shooters, including a throwing arm, of a target carrier adapted to hold targets in singles, doubles or triples, and including a substantially rectangular plate having spaced blocks upon the inner edge thereof, a longitudinal bar rigidly supported upon the blocks, and being of a width slightly greater than the width of the blocks, the said throwing arm being rigidly secured at its outer end to the target carrier by a bolt and nut connection carried by the target carrier and the said bar and securing one of the blocks, and the throwing arm being further secured to the target carrier by a two-piece clamp secured to the inner end of the carrier and adjacent portion of the throwing arm.

1,459,422. ELECTRICAL SYSTEM. HUGH M. STOLLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,654. 14 Claims. (Cl. 178—44.)



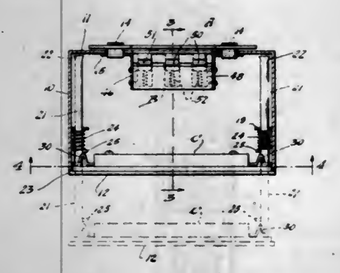
1. A direct current dynamo having a winding, a filter associated therewith for suppressing current variations, said filter comprising said winding of said generator.

1,459,423. COUPON SYSTEM FOR COMMODITIES. ALEXANDER G. UPTEGRAFF, New York, N. Y. Filed Apr. 7, 1921. Serial No. 459,236. 4 Claims. (Cl. 283—60.)



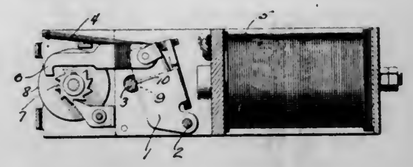
1. A roll of wall paper or the like having a selvage to be removed when the paper is to be used, said selvage being formed at intervals with integral coupons, each coupon extending substantially the entire width of the selvage and being connected to the adjoining portions of the selvage by weakened areas, said coupons bearing indications of exchange value, whereby the portions of the selvage formed as coupons will be effective to protect the corresponding portion of the wall paper edge, and whereby the coupon will be protected by the adjacent turns of the roll, thereby leaving the coupons intact to be severed and returned to the manufacturer by the contractor or other user.

1,459,424. SAVINGS BANK. DUANE H. WAGAR, Ocean Park, Calif. Filed July 21, 1922. Serial No. 576,446. 19 Claims. (Cl. 232—4.)



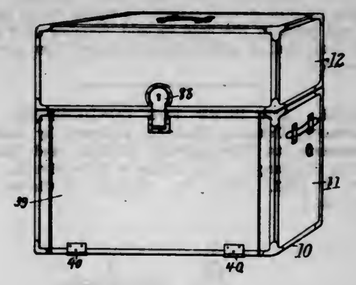
1. A bank comprising side and top walls; a bottom wall mounted for slidable movement laterally from said top wall; members having registering openings on said side walls; and guide means carried by said bottom wall and passing through said openings.

1,459,425. ARMATURE BACKSTOP. CLYDE H. WHEELER, Midland Park Borough, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1921. Serial No. 434,874. 3 Claims. (Cl. 175—336.)



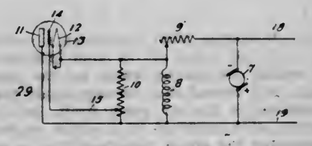
1. In an electromagnetic device, an armature, an electromagnet for actuating said armature and a loosely mounted back-stop for said armature which is adapted to rotate through a small angle when engaged by said armature.

1,459,426. COMBINED PHONOGRAPH AND SOUND-CHARACTER-EXHIBITING DEVICE. EUGENE A. WIDMANN, Brooklyn, N. Y., and Frank D. Lewis, West Orange, N. J., assignors to Pathe Freres Phonograph Company, New York, N. Y., a Corporation of Delaware. Filed June 20, 1918. Serial No. 241,027. 8 Claims. (Cl. 40—28.)



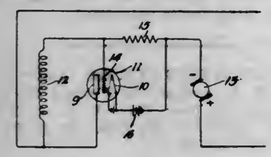
1. In combination a phonograph, a shaft universally connected thereto and rotated therefrom, said shaft projecting beyond the phonograph cabinet, a ribbon feeding device detachably carried by the phonograph cabinet and adapted for exhibiting to view visible symbols corresponding with sounds reproduced by the phonograph, and a universal driving connection for said ribbon feeding device adapted to be detachably connected with said projecting shaft.

1,459,427. THERMIONIC REGULATOR. PETER IRVING WOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 29, 1918. Serial No. 247,275. 2 Claims. (Cl. 171—312.)



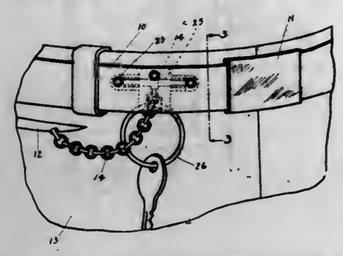
1. An electric generator having a field winding, and means for holding substantially constant a characteristic of said generator, said means comprising a vacuum tube having an anode, a cathode and a control electrode, a by-path around said field winding comprising said anode and said cathode, said anode being connected to the positive terminal of said winding, said cathode being connected to the negative terminal of said winding whereby a portion of the current supplied to said winding is shunted through said tube varying in amount with variations in the effective impedance of the space current path between said anode and said cathode, and a resistance in circuit with said generator, and traversed with current from said generator varying with variations in a characteristic of said generator, at least a portion of said resistance being directly included between said cathode and said control electrode whereby the potential drop in said resistance controls the potential of said control electrode to produce amplified variations in the effective impedance between said anode and said cathode.

1,459,428. THERMIONIC REGULATOR. PETER IRVING WOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 29, 1918. Serial No. 247,276. 2 Claims. (Cl. 171—312.)



1. The combination of an electrical machine having a series winding, a vacuum tube device comprising an anode and cathode connected in circuit with said winding, said device also comprising a controlling electrode, and an impedance device connected between the negative terminal of said machine and said controlling electrode.

1,459,429. SAFETY HOLDER. MARKS ABRAHAMS, Chicago, Ill. Filed May 25, 1922. Serial No. 563,715. 10 Claims. (Cl. 24—3.)

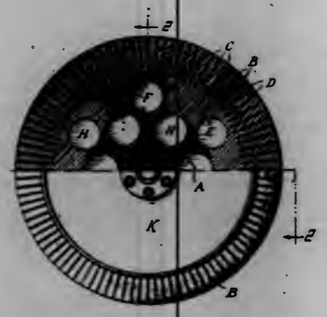


1. The combination with a belt, of a safety holder secured thereto; and a plurality of spaced resilient catches formed on said holder, each of which consists of oppositely disposed side members curved outwardly, then inwardly and then outwardly; and a bar adapted to be pressed in said catches and resiliently and detachably held therein.

1,459,430. RUBBER-CUSHION WHEEL. ERIC HENRY AITKENS, Sydney, New South Wales, Australia. Filed Sept. 13, 1922. Serial No. 587,924. 5 Claims. (Cl. 152—29.)

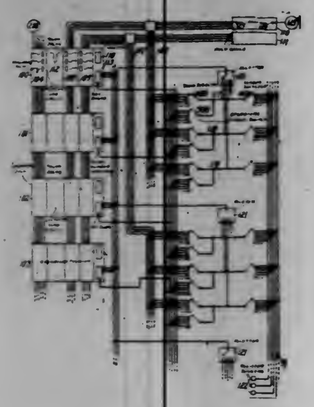
1. A road wheel body adapted to be demountably fixed between dished metal disc cheeks, said body having a resilient rubberized core portion splayed laterally towards

the peripheral edge, a tread portion of the rubber moulded integrally with rubber contained in the core



structure, and fabric reinforcing inlays disposed transversely in a radial direction in said tread, the complete structure being finally vulcanized.

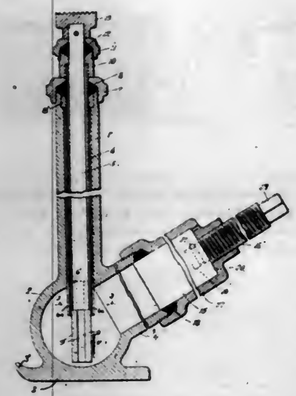
1,459,431. CONTROLLING SYSTEM. LOUIS M. ALLEN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,451. 9 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a plurality of registering devices, a key set, a two-conductor control line extending from said key set to said registering devices, and means to adjust said registering devices by means of electrical impulses of varying characteristics over said control line, each of said registering devices being under the control of any key in said key set.

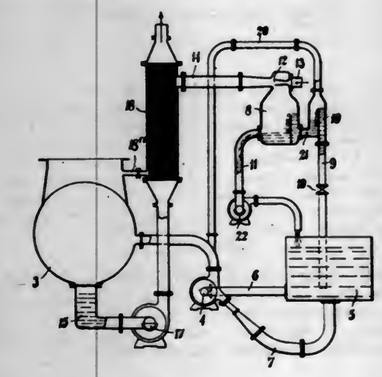
1,459,432. HYDRAULIC JACK. HENRY W. ARMSTRONG, New Haven, Conn., assignor of one-half to Harold Wyman, Plantsville, Conn. Filed July 9, 1920. Serial No. 394,887. 5 Claims. (Cl. 138—9.)

1. In a hydraulic jack, a body member in which a fluid chamber is formed, a portion of which chamber forms an actuating piston cylinder entirely open at one end in said chamber, an actuating piston in said cylinder, means for actuating said piston from the exterior of the jack, a second cylinder of less cross-sectional area than said first named actuating piston cylinder opening



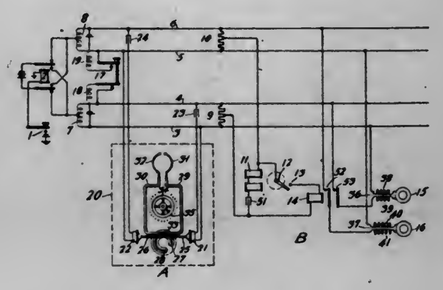
into and extending from said fluid chamber, and a plunger in said second cylinder adapted to be operated fast and quick by the fluid in said chamber at a greater speed than that of said actuating piston when the latter is operated.

1,459,433. AIR PUMP FOR CONDENSERS. KARL BAUMANN, Urmston, England, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 2, 1917. Serial No. 146,135. 5 Claims. (Cl. 257—24.)



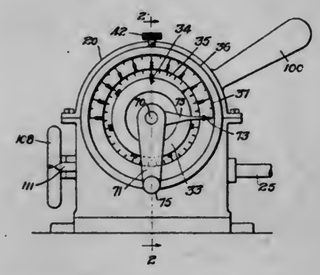
1. A steam condensing plant comprising a steam condenser and a jet air pump of the kind indicated, and means for cooling the sealing water for the pump by evaporating a part thereof in a vacuum higher than the vacuum obtaining in the air pump itself, said evaporating vacuum being produced by a steam ejector, and means discharging the steam therefrom into a suitable part of the plant operating under vacuum, substantially as described.

1,459,434. TRANSMISSION SYSTEM. DAVID G. BLATTNER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,324. 6 Claims. (Cl. 178—44.)



1. In a transmission line, a pair of conductors, one of which has a capacitance to a grounded connection, a transmitter electrically connected to said conductors, and means connected in the line immediately adjacent the transmitter for preventing packing of the transmitter due to surges on the other of said conductors.

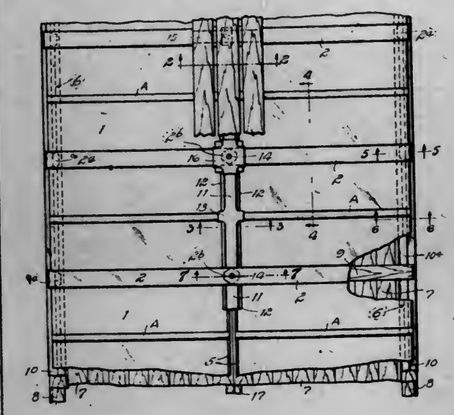
1,459,435. STOP MECHANISM. HELMER J. BOE, Chicago, and BENJAMIN J. EGERT, Brookfield, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,397. 12 Claims. (Cl. 235—132.)



1. In a mechanism for controlling the operation of a machine at the completion of a predetermined number of revolutions or reciprocations, the combination with the machine of a registering mechanism adapted to be operated thereby, including a rotatable member and a rotatable and reciprocable member adapted to be successively rotated from a set to a zero or let-off position to register in units or fractions thereof the number of revolutions or reciprocations of the machine, a differential driving means for said rotatable member and rotatable and reciprocable member, means for moving said rotatable and reciprocable member longitudinally at the zero position thereof, and stop mechanism for the machine controlled by the longitudinal movement of said rotatable and reciprocable member.

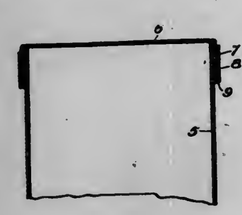
1,459,436. METAL CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1922. Serial No. 542,858. 8 Claims. (Cl. 108—5.)

1. A car roof comprising a support having battens arranged transversely thereof and roofing sheets having hollow ribs astraddle said battens, said sheets having



portions at both sides of the respective battens that rest flatwise on said support.

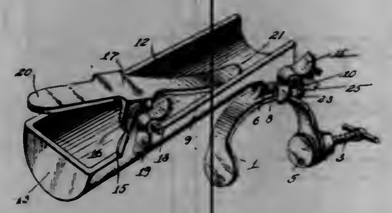
1,459,437. RECEPTACLE CLOSURE AND SEAL. GEORGE S. BOWMAN, James Post Office, Md., assignor to Mary H. Bowman, James Post Office, Md. Filed Oct. 25, 1921. Serial No. 510,333. 3 Claims. (Cl. 220—45.)



1. The combination of a receptacle of like internal diameter throughout and the vertical body walls of which are disposed in a single continuous vertical plane, said receptacle having at its top a pair of vertical walls, one of which is in the plane of and continuous with its body walls; and a horizontal wall connecting the same and forming a sealing chamber closed at its bottom and open at its top, one of said receptacle walls having its rim edge extending to a horizontal plane above the top of the chamber and slightly above the rim edge of the other vertical wall, said walls of the chamber being straight and parallel and in close relation so as to form a chamber of restricted width and minimum lateral displacement with respect to the plane of the body walls of the receptacle, a cover having a top wall to rest upon the rim edge of the higher vertical wall of the receptacle, and a depending apron to depend within said sealing chamber, said apron having its lower edge terminating above the horizontal bottom wall of the sealing chamber and its upper edge exposed above the rim edge of the shorter vertical wall, said top wall and upper edge of the apron of the cover being united so as to form a corner angle annularly continuous for gripping engagement and arranged to more or less substantially bridge or cover the gap between the rim edges of the

long and short walls of the sealing chamber, and a sealing medium in said chamber in sealing contact with the vertical walls and the apron.

1,459,438. POLE SUPPORT. JOHN MATHIAS BRAND, Columbus, Ohio. Filed Oct. 12, 1921. Serial No. 507,299. 1 Claim. (Cl. 248—37.)



A fishing pole support comprising a rod holder formed to include a longitudinally extending socket, a pair of upstanding ears provided upon the holder, a bolt supported by the ears and disposed transversely of the socket, a tongue pivotally connected to the said bolt, spring means engaged with the tongue to hold the same in yielding engagement with a rod positioned within the socket of said holder, said bolt also serving to limit the tilting movement of the rod in one direction.

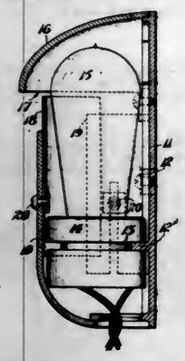
1,459,439. MUSIC-ROLL CONTAINER. CHARLES S. BURTON, Oak Park, Ill. Filed Sept. 22, 1922. Serial No. 589,808. 7 Claims. (Cl. 206—52.)



1. A container for music rolls and the like comprising an outer tubular box member and an open-topped inner box member telescoped into the outer member, said inner member having its opposite sides severed at a transverse plane intermediate the ends, and the bottom provided with a hinge at a distance forward from the plane of severance of the sides whereby said inner member comprises a drop-end portion adapted to be dropped for insertion and withdrawal of the roll when the bottom hinge arrives at the forward end of the tubular member; the outer tubular member having an abutment which projects within the tubular cavity of said member presenting an abrupt end rearward for encounter of the forward end of the rear part of one of the severed sides of the inner member, positioned for such encounter at the withdrawn position of the drop-end.

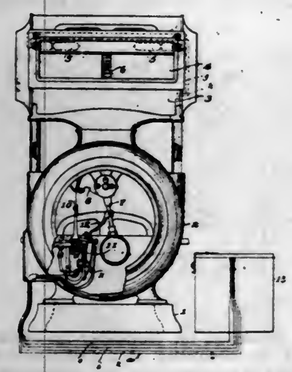
1,459,440. AISLE LIGHT. CHARLES FELIX BUTTE, San Francisco, Calif. Filed Nov. 2, 1921. Serial No. 512,258. 5 Claims. (Cl. 240—11.)

1. An aisle light comprising a housing including means for supporting a light globe therein, the upper end of said housing being open, a canopy supported by the upper end of said housing and vertically adjustable in relation thereto and adapted to project the rays of



said light outwardly and downwardly from the housing, and vertically adjustable means co-operating with the canopy for regulating the width of said light ray.

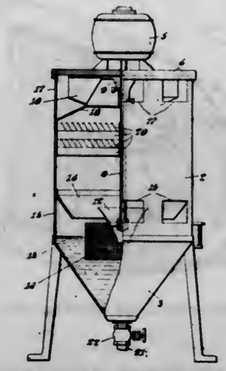
1,459,441. ILLUMINATING WEIGHING SCALE. SAMUEL G. CRANE, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 29, 1918. Serial No. 225,387. 17 Claims. (Cl. 161—1.)



1. The combination in a self-illuminating scale of load-offsetting mechanism, illuminating means and timing mechanism connected to said illuminating means for controlling the period of illumination actuated by the movement of the load-offsetting mechanism of the scale.

12. The combination with a self-illuminating scale, of a timing device for controlling the period of illumination, an operating and a re-setting circuit each having a normally open and a normally closed switch therein, means operated by movement of the scale from zero position to close the open switch of the operating circuit and open the closed switch of the resetting circuit, means actuated upon the closing of the operating circuit to initiate operation of the timing device, close the normally open switch of the re-setting circuit, and open the normally closed switch of the operating circuit, and means operative by means of the re-setting circuit to return the parts to their initial positions upon return of the scale to zero position.

1,459,442. AIR-WASHING APPARATUS. SAMUEL C. CUTLER, Brookline, Mass. Filed Nov. 1, 1919. Serial No. 334,973. 5 Claims. (Cl. 183—24.)



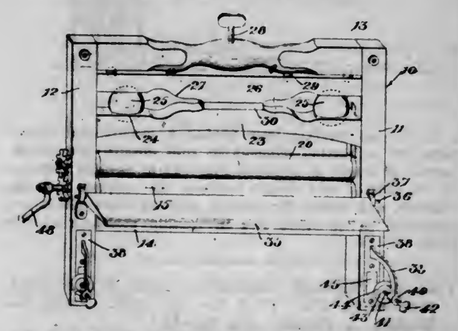
1. The method of washing gas comprising the creating of a laterally directed spray of liquid, a downwardly extending curtain of liquid through which spray and curtain the gas to be washed is passed, creating a flow of gas through said curtain and said laterally directed spray and separating the liquid from the gas above said laterally directed spray.

1,459,443. CLOSURE FOR MILK BOTTLES. IDA DAVIS, San Antonio, Tex. Filed May 6, 1922. Serial No. 558,925. 2 Claims. (Cl. 215—51.)



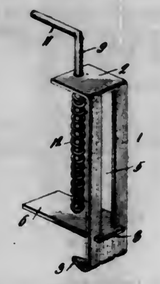
1. A device of the class described formed from layers of material, the bottommost layer being provided with an opening, the other layer being provided with a socket registering with the opening in the bottom layer, and a foldable spout disposed when folded in the socket and having one end thereof in registry with the opening and fixed to the bottom layer.

1,459,444. WASH WRINGER. TAKANOSHIN DOMOTO, San Francisco, Calif. Filed June 29, 1921. Serial No. 481,256. 3 Claims. (Cl. 68—33.)



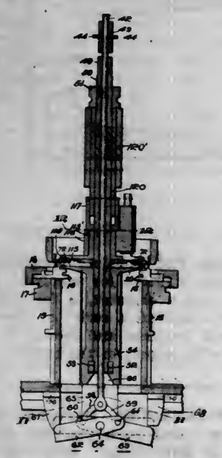
1. A wash wringer comprising a frame; a relatively fixed wringer roll rotatably supported thereby; a movable wringer roll disposed above said fixed roll; a pressure beam acting against the trunnions of said movable roll; a transversely extending bar parallel to said beam; resilient means interposed between the bar and beam; an adjustable pressure screw carried by the frame and acting against the center of said bar to force it downwardly; said pressure beam and parallel bar being formed with recesses of different sizes along their adjacent faces for accommodating the resilient means.

1,459,445. CLAMP. ROBERT ELDERTON and CLARENCE D. BALDWIN, Independence, Iowa. Filed Sept. 9, 1922. Serial No. 587,245. 2 Claims. (Cl. 24—263.)



1. A clamp of the class described including a longitudinally slotted body formed with a right angularly extending apertured lip at one end and a fixed bifurcated jaw at its other end and a tongue disposed between the bifurcations of the fixed jaw, and a movable jaw provided with a T-shaped extension at one end projecting through the slotted body, a rod attached at one end to the movable jaw and projecting through the aperture of the lip on the body, a spring disposed about the rod between the apertured lip and the movable jaw so as to normally hold the movable jaw adjacent the fixed jaw, and the other end of said rod being curved at substantially right angles thereto for forming a handle portion.

1,459,446. INTURNED-WELT-KNITTING MACHINE. RAY FENN, Providence, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Aug. 27, 1919. Serial No. 320,311. 31 Claims. (Cl. 66—[illegible].)

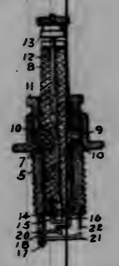


10. A thin, flat sinker or web holder the body whereof lies wholly in one plane, and having a needle-truing formation.

15. A loop or bight detaining implement consisting of a body or shank folded upon itself to bring the members of the body or shank substantially into face contact, said implement having a pair of terminal hooks in substantially face contact.

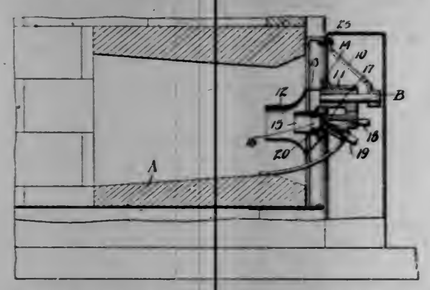
27. A weft knitting machine comprising in combination, a circular series of needles, a needle cylinder therefor, a circular series of jacks having loops receiving ends, a supporting dial for the jacks, and means fixed circumferentially with respect to the needle cylinder and dial respectively to effect a slight turning movement of the dial and its jacks relative to the needle cylinder and its needles.

1,459,447. SPARK PLUG. JOSEPH G. GAVLAK, Monongahela, Pa. Filed July 21, 1920. Serial No. 397,844. 3 Claims. (Cl. 123—169.)



1. A spark plug comprising a shell of conducting material, a non-conducting element secured in the shell, a non-conducting support at the inner end of the shell at one side thereof, means depending from the shell for detachably connecting said support to the shell, and electrodes carried by the support, element and shell and associated with each other.

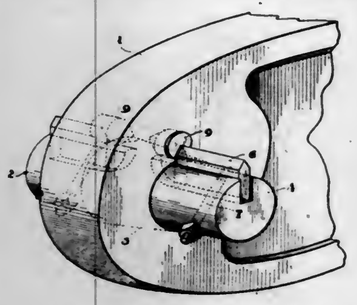
1,459,448. OIL ATOMIZER. PERRY H. GENTZEL, Newton, Mass. Filed Oct. 25, 1919. Serial No. 333,298. 13 Claims. (Cl. 158—74.)



5. A hydro-carbon fuel atomizer comprising an atomizer burner having a throat for supplying steam, said throat expanding into a chamber, a fuel supply nozzle extending into the chamber, a series of concentric bell-mouth tubes joined together and means for adjusting the tubes axially with respect to the burner.

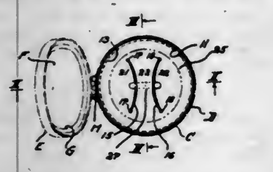
1,459,449. PIVOT RETAINER. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 12, 1920. Serial No. 373,433. 9 Claims. (Cl. 74—104.)

1. In a device of the class described, in combination, a lever having a round bore therethrough, a round pivot retainer snugly fitting in said bore, said pivot retainer having a groove therein, a pivot bar seated in said



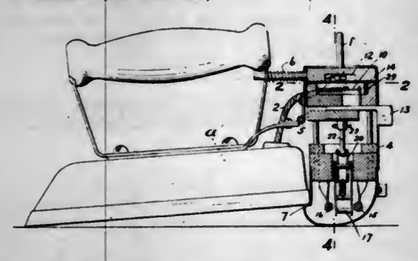
groove, and wedging means for securing said pivot bar in said groove.

1,459,450. DISPENSING RECEPTACLE. EMIL SCHMIDT, Elmhurst, N. Y. Filed June 27, 1922. Serial No. 571,207. 16 Claims. (Cl. 132—82.)



4. A dispensing receptacle of the character described, including a head provided with slits for the passage of material therethru and extending transversely of its surface, and a bridge formed intermediate of said slits substantially central of said surface so as to afford a manipulating grip for said head.

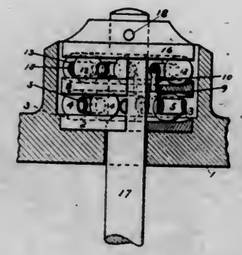
1,459,451. ELECTRIC IRON. JOSEPH M. SECHS, Philadelphia, Pa. Filed Feb. 6, 1923. Serial No. 617,252. 4 Claims. (Cl. 219—25.)



1. For an electric iron having a circuit and terminals and a heating element in said circuit, the combination of a pair of switches disposed in parallel relation in one side of said circuit between one terminal and the element, and means for closing said switches which are operative in up-ended and in ironing positions of the iron.

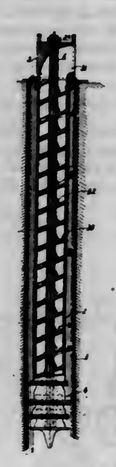
1,459,452. THRUST BEARING. ELISA M. SOUVIELLE, Jacksonville, Fla. Filed Jan. 25, 1922. Serial No. 531,522. 2 Claims. (Cl. 64—57.)

2. In a thrust bearing of the class described; a plurality of ferrous metal ball races; non-ferrous metal balls operating between these ball races; a plurality of ferrous metal rollers interposed between the balls; a plurality of non-ferrous metal studs upon which the rollers rotate; a plurality of supports, formed on one or



more of the ball races, extending alternately to opposite sides; the studs secured to these supports; and non-ferrous metal washers placed on the studs between the rollers and the supports.

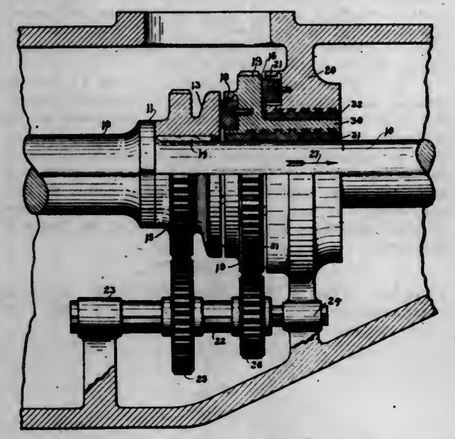
1,459,453. PUMP. ALFRED J. TRIGWELL, San Jose, Calif. Filed July 5, 1921. Serial No. 482,424. 6 Claims. (Cl. 103—90.)



1. In combination, a pump bowl, a shaft supporting rod mounted therein, a tubular driving shaft encompassing said rod, a thrust bearing inserted between said rod and shaft, a packing gland element fixedly mounted on said shaft, packing gland element slidably mounted in said bowl to engage said first named element, and a resilient support for the second named element normally holding the same in close engagement with said first element.

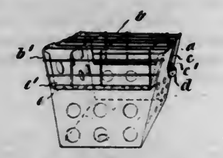
1,459,454. THRUST BEARING. HENRY R. TROTTER, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 29, 1921. Serial No. 465,485. 6 Claims. (Cl. 64—25.)

1. In a thrust bearing structure, the combination with a rotatable shaft carrying a shaft thrust collar, of a rotatably mounted supplemental thrust collar provided with tiltably mounted thrust blocks bearing against said shaft collar, fixed thrust-receiving means provided with tiltable thrust blocks bearing against the back of said supple-



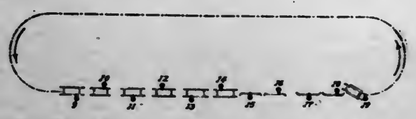
mental thrust collar, and means for rotatably driving said supplemental collar at a speed other than that of said shaft.

1,459,455. CONTAINER FOR CARDS FOR RECORDING STATISTICAL AND OTHER INFORMATION. ALFRED ERNEST VAGO, Middlesex, England, assignor to A. Boake Roberts and Company Limited, London, England. Filed May 17, 1922. Serial No. 561,710. 6 Claims. (Cl. 129—43.)



1. A container for loose cards for recording statistical and other information comprising a metal body having end members of greater height than the height of the cards and sides of less height than the height of said cards, a cover of such form as to permit the manipulation and examination of the cards without removal from the container said cover being hinged to one end of said body covering the top and open portions of the sides and means for securing said cover against unauthorized operation.

1,459,456. METHOD OF AND APPARATUS FOR UNITING THE PARTS OF VEHICLE FRAMES. HALWARD G. WESTMORE, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,408. 13 Claims. (Cl. 78—46.)

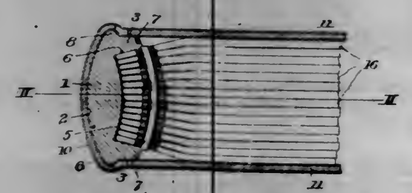


1. A method of forming vehicle frames, which consists in temporarily securing the frame elements in their re-

spective positions by means of loosely held rivets, supporting a plurality of assembled frames in a state of suspension to permit their manipulation, advancing the frames in succession along a line of travel with intermitting periods of rest for all of said frames, and permanently connecting the elements of each frame in a divided operation by progressively spreading the rivets during the successive periods of rest.

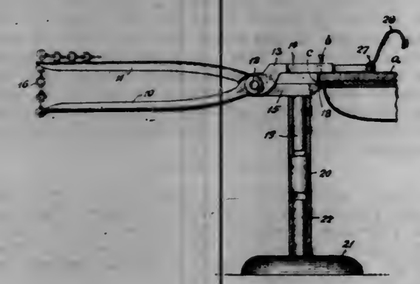
9. In a frame riveting apparatus, a line of riveting presses, an overhead trolley system, a connection depending from each trolley and a carrier supported by the said connection, the said carrier being adapted to support the assembled members of an automobile frame in position for action by the several riveting presses to unite the frame members into a rigid structure as they pass along the line, the said presses effecting different riveting operations upon different parts of the frame in succession.

1,459,457. ALBUM FOR DISK RECORDS. WILLIAM WILBERGER, Brooklyn, N. Y. Filed Feb. 7, 1922. Serial No. 534,701. 5 Claims. (Cl. 129—20.)



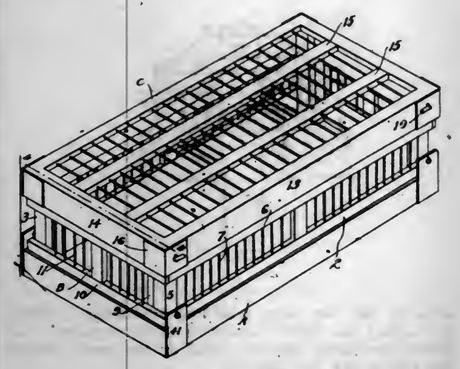
3. The combination with a back member having a groove in its inner face, the base of said groove being convex and the lateral walls thereof being flared for the purpose specified, of arched leaf-retaining members bridging said groove and arranged substantially parallel to said convex base thereof.

1,459,458. APPARATUS FOR REPAIRING SHOES. RICHARD WOJAN, Elmont, N. Y. Filed Jan. 19, 1922. Serial No. 530,314. 3 Claims. (Cl. 1—19.)



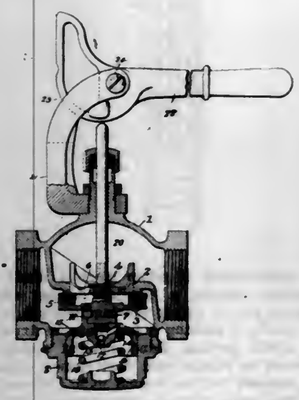
1. An apparatus for repairing shoes comprising gripping pliers having a forked upper jaw, a lower jaw adapted to project over a welt, an anvil on said lower jaw and the forks of said upper jaw being so constructed and arranged as to engage a tap sole at points so spaced along the edge of the tap sole as to permit the introduction between the forks of means for positioning nails in line with the anvil.

1,459,459. FOLDABLE AND COLLAPSIBLE CONTAINER. WILLIAM W. WOODWORTH, South Berkeley, Calif. Filed July 27, 1921. Serial No. 487,906. 7 Claims. (Cl. 217—15.)



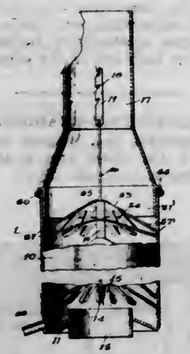
1. A device of the character described comprising a bottom section, a pair of side sections pivotally secured thereto and arranged to fold upon the upper face of the same, a pair of removable end sections, a cover section adapted to be supported by the side and end sections, and locking means extending through the side, end and cover sections respectively and removable therefrom, said bottom section being provided with means to receive the locking means when the same has been removed from the said sections.

1,459,460. VALVE. FARNHAM YARDLEY, New York, N. Y., assignor to Jenkins Brothers, New York, N. Y., a Corporation of New Jersey. Filed May 4, 1922. Serial No. 558,437. 2 Claims. (Cl. 251—143.)



1. The combination of a valve casing, a transverse valve seat therein, a valve closing against said seat, having a T-headed lug on the rear face, a hollow screw cap forming a cylinder engaging in an opening in the bottom of the casing, a piston working in said cylinder and having a slotted neck surrounding the lug on the valve, an exhaust passage in said piston having an inwardly seating ball check therein, and a relatively small inlet passage in said piston to slowly admit the pressure to the cylinder.

1,459,461. OIL-SAVING STACK FOR GAS-FLOWING WELLS. EARLE RUTHERFORD AUSTIN, Breckenridge, Tex. Filed Sept. 1, 1921. Serial No. 497,552. 2 Claims. (Cl. 183—95.)



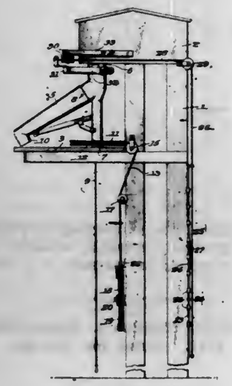
1. An oil trap of the character described comprising a two-part casing having a lower intake and an upper outlet and having a base forming an oil trough therein around its lower inlet, an oil outlet nipple leading from the casing above its base, an axial supporting rod within the casing, said casing parts having internal means detachably engaged by the ends of said supporting rod to normally prevent disengagement of the said parts, and a vertical series of baffle members within the casing having outwardly and downwardly inclined arms, removably mounted on the said supporting rod with their said arms in staggered relation vertically throughout the casing.

1,459,462. METER BOX. CHILTON WITHERS BLUE, Montgomery, Ala., assignor to Janney & Company, Montgomery, Ala., a Firm. Filed Feb. 25, 1921. Serial No. 447,701. 3 Claims. (Cl. 137—13.)



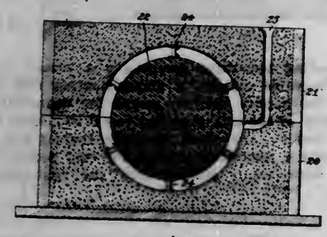
1. A meter box consisting of a cylindrical casing having an inwardly projecting annular flange at its upper end, said flange having four slots cut therethrough at points separated from each other by ninety degrees, a cover for said casing having formed on its under side two ribs intersecting centrally thereof at right angles, said ribs terminating in lugs offset from the bottom of the cover, a socket formed on the under side of the cover between said ribs, a bolt slidably mounted in said socket with its outer end adapted to enter one of said slots and having an upwardly opening notch adjacent its inner end, said cover having a hole out of registry with said notch for the insertion of a suitable key.

1,459,463. INDICATOR FOR GRAIN SPOUTS. MARINUS BOBELDYK, Armour, S. Dak. Filed Sept. 25, 1922. Serial No. 590,336. 6 Claims. (Cl. 193—23.)



1. The combination with a grain distributing spout, of a mechanical indicator for showing the position of the spout, an operating connection between the spout and the indicator, and means for adjusting said connection.

1,459,464. MOLDER'S CHAPLET. JOHN W. BRADLEY, Buffalo, N. Y. Filed Sept. 25, 1920. Serial No. 412,838. 10 Claims. (Cl. 22—184.)

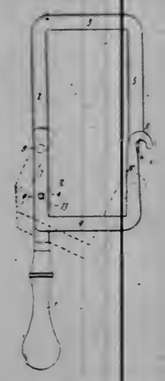


1. As an article of manufacture, a chaplet comprising two spaced imperforate bearing members, and a supporting member integral therewith and arranged centrally between said bearing members, said supporting member being spaced from all edges of said bearing member.

1,459,465. REED HOOK. FREDERICK J. HEINE, Huntington, Mass. Filed Dec. 27, 1921. Serial No. 524,875. 12 Claims. (Cl. 28—45.)

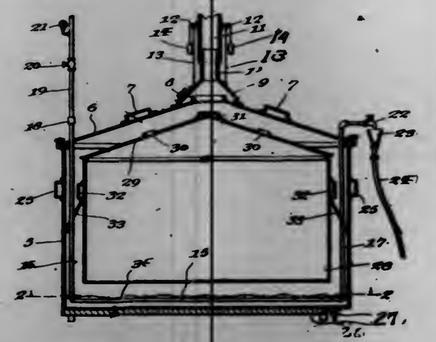
1. The combination, in a reed hook of the character described, with a shank provided with a handle, and having an arm with a depending feeding terminal, of a

part attached to said shank and having an arm with a hook terminal that rises into cooperative relation with



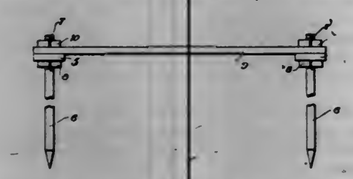
said leading terminal, the supporting members for said terminals being relatively movable, whereby said terminals can be separated for the passage of a reed rail.

1,459,466. COOKER. THOMAS A. HODGE, Franklin, Ind. Filed Oct. 6, 1921. Serial No. 505,965. 2 Claims. (Cl. 53—1.)



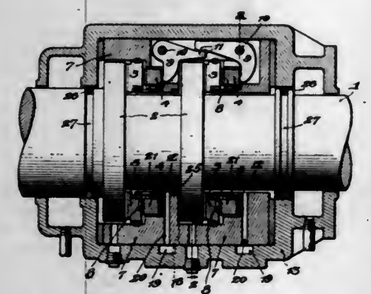
1. A cooking apparatus comprising a vessel provided with a removable closure, a steam heating coil in the vessel at the bottom thereof, means for controlling the steam supply of the coil, a second vessel supported in the aforesaid vessel spaced from the walls thereof and above the coil, and a removable closure for said second vessel provided with vapor outlets into the first-mentioned vessel.

1,459,467. GRATE. CHARLES E. HOWARD, Anaconda, Mont. Filed Aug. 10, 1920, Serial No. 402,557. Renewed Apr. 16, 1923. 3 Claims. (Cl. 126—30.)



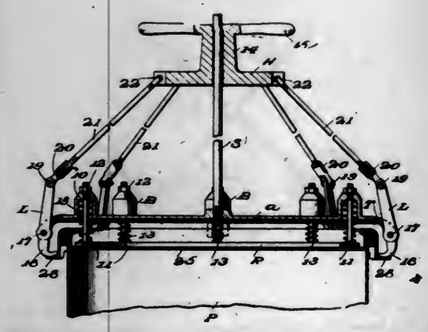
1. A grate including a pair of main supporting rods being substantially rectangular in cross section, a plurality of legs having threaded shanks, supporting nuts on said threaded shanks, retaining nuts on said threaded shanks for holding the main supporting rods in rigid engagement with the legs, said main supporting rods having apertures for receiving said shanks, a pair of grate bars having apertures at each end so as to rest between the supporting nuts and the retaining nuts on said main supporting rods, and a removable central grate rod being substantially rectangular in cross section supported at each end of the supporting rods.

1,459,468. MULTIPLE-UNIT BEARING. HARRY A. S. HOWARTH, Pittsburgh, Pa., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed June 4, 1920. Serial No. 386,534. 80 Claims. (Cl. 64—25.)



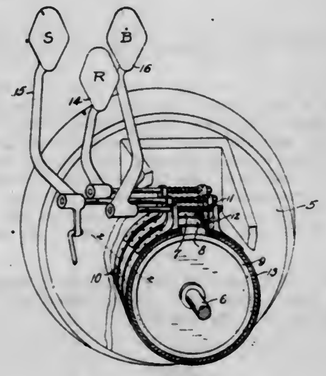
28. In a bearing, a plurality of bearing segments assembled in groups, means for equitably distributing the pressure among the segments of each group, and means utilizing the pressure on less than the whole number of segments of each group for equitably distributing the pressure among the respective groups of segments.

1,459,469. PAIL CLOSURE. SMITH MADISON JOHNSON, Middlefield, Ohio. Filed Mar. 4, 1922. Serial No. 541,095. 1 Claim. (Cl. 220—55.)



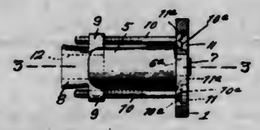
In combination, a pail having a curved flange about its free edge, a cover having a similar flange about its free edge and adapted to fit over the flange of said pail, said flange upon the pail having its free end portion turned upwardly and inwardly and said portion being slightly spaced from the inner face or inner side of said pail flange, and a plurality of extensions formed upon the cover flange and each extension turned upwardly and upon itself and disposed between the upwardly turned portion of the pail flange and the associated side wall of the pail, said upwardly turned extensions and upwardly turned portion of the pail flange being adapted to cooperate with each other to secure said cover to the pail and also adapted to serve as a brace between said secured flanges and the outer wall of the pail.

1,459,470. TRANSMISSION AND BRAKE MECHANISM. MORTON F. JUDD, Stratford, Conn., assignor to The Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 1, 1921. Serial No. 519,085. 2 Claims. (Cl. 188—259.)



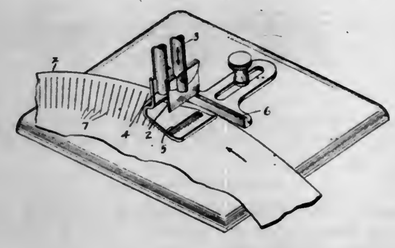
2. A power transmission and brake mechanism for automobiles comprising three drums, one each for the reverse, low speed and brake, bands for the respective drums, and linings for the respective bands adapted to engage the drums, the lining for the reverse drum being adapted to resist compression and consisting of a fabric of vary hard and compact weave, the lining for the low speed drum being composed of asbestos and cotton treated with a saturant binder, and the lining for the brake drum being mainly composed of a heat resisting fibre material of a slightly compressible nature treated with a saturant binder.

1,459,471. HANGER. JACOB KOHN, New York, N. Y. Filed Mar. 13, 1922. Serial No. 543,248. 6 Claims. (Cl. 85—2.4.)



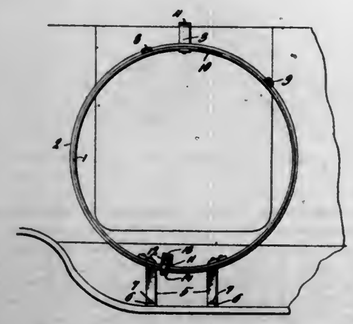
1. In a hanger for fixing auxiliary structural work to the face of a building wall, a slidably adjustable conical spreader having a radial lug, and a clamping element for engaging a recess in the wall, means engaging said lug for adjusting said spreader whereby the clamping element is actuated, and a bolt for expanding the clamping element.

1,459,472. MEANS FOR MAKING FRINGE FOR LADIES' HATS. LOU KRAUSE, New York, N. Y., assignor to Slyt Edge Company, Inc., a Corporation of New York. Filed Mar. 29, 1922. Serial No. 547,931. 2 Claims. (Cl. 164—17.)



1. The method of producing a fringed edge upon a soft felt fabric comprising cutting close-together slits in the material adjacent and inwardly of the edge, and serving the outer portion of the material beyond said slits.

1,459,473. TIRE CARRIER. FRED A. LANE, Shelburn, Ind. Filed Apr. 27, 1921. Serial No. 464,783. 1 Claim. (Cl. 224—29.)



A device for carrying spare rims and tires on the running board of an automobile comprising an annular flat supporting band, means associated with the band for detachably holding a tire and rim thereon, a pair of depending supporting legs disposed on opposite sides of the vertical diametric center of the band and having right angularly extending diverging band engaging feet on their upper ends and right angularly extending attaching feet on their lower ends for engaging the running board of the automobile, an inwardly extending supporting arm carried by the upper end of the band disposed intermediate the supporting legs and arranged at the direct vertical diametric center of the band, and a hook formed on the arm for engaging over the upper edge of the body of the automobile.

1,459,474. AMUSEMENT APPLIANCE. WILFRED JOHN MACDONALD, FRANCIS R. BLANEY, and EDITH MAY MACDONALD, Winnipeg, Manitoba, Canada. Filed Mar. 29, 1920. Serial No. 369,682. 5 Claims. (Cl. 46—27.)

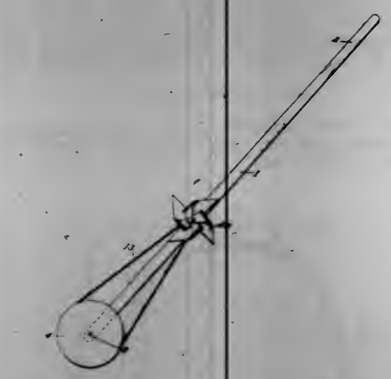
1. In an amusement appliance, a driven rotatably mounted table, a plurality of carriers mounted on the table and turning with the same, means for effecting an in and out radial movement of the carriers as they

travel with the table, means for rotating the carriers around their vertical axes at the ends of their in and



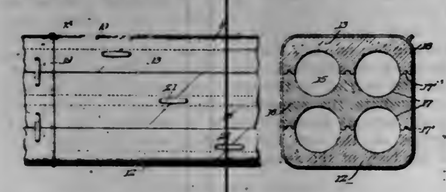
out travel and means for automatically locking the carriers against rotation around their vertical axes during their radial movement.

1,459,475. TOY. FREDERICK WILLIAM MARHEINE, Spokane, Wash. Filed Oct. 3, 1921. Serial No. 504,858. 1 Claim. (Cl. 46—38.)



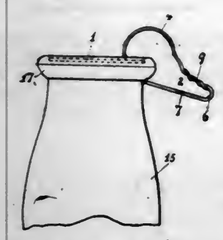
A toy comprising a stick, a bearing pin extending laterally therefrom and a ground wheel on the pin and having a peripheral groove, pin extending laterally from the stick and inclined slightly away from the ground wheel, a spool journaled thereon, a pin wheel rotatable with the spool, and an endless belt for transmitting motion from the ground wheel to the spool, said belt constituting means for holding the spool against the side of the stick and preventing its accidental removal from the pin.

1,459,476. MULTIPLE CONDUIT. WILLIAM C. MEREDITH, Atlanta, Ga. Filed Sept. 7, 1922. Serial No. 586,703. 3 Claims. (Cl. 137—75.)



1. A wooden conduit section comprising outer members having smooth outer surfaces and having on their inner surfaces longitudinal grooves, each of said members being of substantially integral construction, a filler member longitudinally grooved on its opposite faces and adapted to be positioned between said outer members with its grooves in registration with the grooves of said members thereby to form a section having a plurality of bores, cooperating tongues and grooves on the meeting faces of said members at the side of said bore grooves, and bands encircling said members to hold them together to form a portable unit.

1,459,477. BOTTLE CAP. CLARENCE L. NACE, Oakland, Calif. Filed Apr. 25, 1921. Serial No. 464,407. 3 Claims. (Cl. 215—63.)



1. A bottle cap including a disk adapted to rest upon the seat in the mouth of the bottle, a clip comprising a single piece of wire bent in the middle forming a foot, then bent upwardly and backwardly over said foot, forming arms which are twisted together, and then bent upwardly under said arms at an angle, forming other arms for engaging the under side of the bead on the mouth of the bottle, said foot being secured to the upper side of said disk near the edge of the disk.

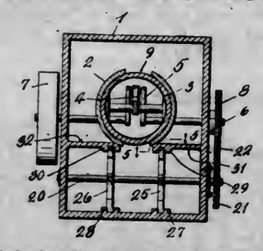
1,459,478. INHALING TUBE. WILLIAM A. PAGE, Cleveland, Ohio. Filed Dec. 4, 1919. Serial No. 342,396. 3 Claims. (Cl. 128—200.)



1. An inhaling tube having annularly reduced end portions provided with pins, caps seated over said end portions and having inclined grooves in their sides engaged on said pins and provided with axial openings, a spindle fixed in said tube having a bored hub engaged in said tube and its ends constructed to close said openings, and an absorbent belt about said hub and exposed to the bore therein.

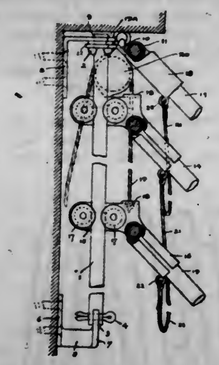
1,459,479. INTERNAL-COMBUSTION ENGINE. ADOLPH SCHAEFER, Vallejo, Calif. Filed Nov. 8, 1920. Serial No. 422,473. 1 Claim. (Cl. 123—195.)

The combination of an internal combustion engine having a crank shaft, of a base casing, a vertical cylinder, an extension on said cylinder disposed within the casing and having diametrically opposed slots, of a valve operating mechanism disposed within said casing including a pair of oppositely disposed castings extending inwardly from opposed walls of said casing parallel with said crank shaft and terminating adjacent opposite sides of one of the slots in the cylinder extension, vertically outwardly extending guide flanges formed adjacent said ends of the castings, the portion of the castings intermediate the guide flanges being perforated to permit lubrication, coacting vertical guide flanges on the opposite wall of the casing for each set of guides on the castings, yokes slidably mounted in said guides and disposed on opposite sides of the adjacent slot in the cylinder extension, a cam shaft extending through said yokes,



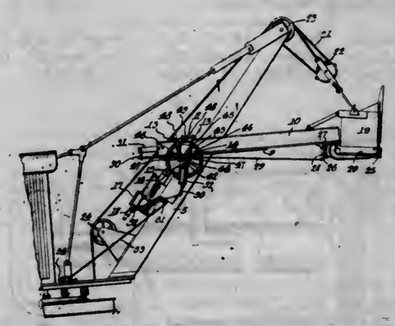
cams carried thereby and disposed within said yokes, vertical stems carried by the yokes, and vertically movable slide valves connected with the stems.

1,459,480. AWNING. THOMAS SONNE, Vancouver, British Columbia, Canada. Filed Mar. 11, 1922. Serial No. 542,939. 14 Claims. (Cl. 156—15.)



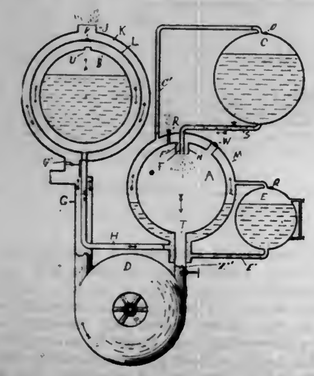
4. An awning structure comprising guide rods, retaining clips provided with guide rollers arranged to travel on said rods and awning frames detachably carried by said clips.

1,459,481. EXCAVATING MACHINE. WILLIAM B. TRAPNELL and JOSEPH A. EASTERWOOD, Madisonville, Ky. Filed Oct. 16, 1922. Serial No. 594,904. 4 Claims. (Cl. 214—146.)



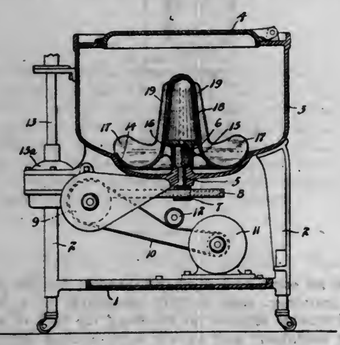
1. In an excavating machine, a crane, a boom, a transverse shaft rigidly secured to the crane and supporting the boom, means rotatably mounted upon the transverse shaft to effect the longitudinal movement of the boom, a shovel carried by the boom and having a door adapted to be moved to opened and closed positions, a latch to hold the door closed, a trip cable having connection with the latch and with the rear portion of the boom and extending longitudinally of the boom and normally being substantially straight, a support base rigidly mounted upon the transverse shaft, a cylinder carried by the lower portion of the support base, a piston within the cylinder, a piston rod secured to the piston and extending outwardly of the cylinder, a pulley secured to the piston rod and movable into engagement with the trip line in a direction transversely of the same, pulleys arranged upon the opposite side of the trip line and supported by the upper portion of the base support, and means to supply fluid pressure to the cylinder.

1,459,482. LIQUID-FUEL BURNER. GEORGE T. UNDERWOOD, Maxwell, Calif. Filed June 9, 1919. Serial No. 302,769. 3 Claims. (Cl. 60—42.)



1. The combination of a combustion chamber, a water jacket surrounding the same; of an oxygen vapor chamber communicating with said water jacket whereby the vapor is caused to travel through the water therein, said combustion chamber having a nozzle communicating with the upper end of the water jacket, and means for supplying liquid fuel to the nozzle whereby a combustible gas is created in the combustion chamber and which is adapted to be ignited for creating pressure in said combustion chamber, and means for converting the pressure into mechanical energy.

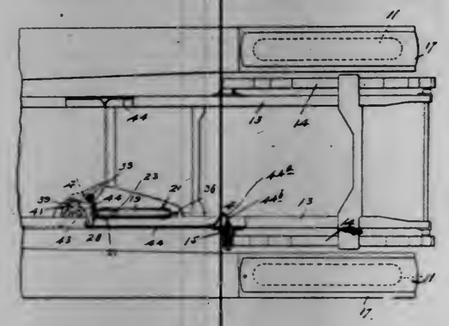
1,459,483. DOLLY FOR WASHING MACHINES. CORNELIUS C. UNRUH, Freeman, S. Dak. Filed Jan. 22, 1923. Serial No. 614,132. 9 Claims. (Cl. 259—107.)



1. A dolly for a washing machine adapted to be disposed in a liquid containing receptacle with its top por-

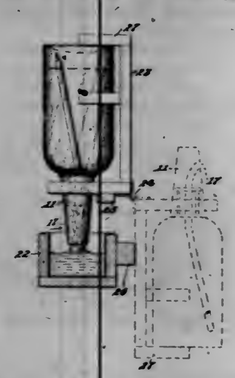
tion well below the top of said receptacle comprising a dish-shaped member and a substantially cylindrical stem rising from and merging into the central portion thereof and terminating in an upper rounded end, said stem having spaced ribs extending vertically along its sides upwardly tapered throughout the length of said stem and extending outwardly across the dish-shaped member.

1,459,484. FORCE-FEED OILING SYSTEM. GEORGE L. WAHL, Minneapolis, Minn. Filed July 14, 1921. Serial No. 484,620. 1 Claim. (Cl. 184—7.)



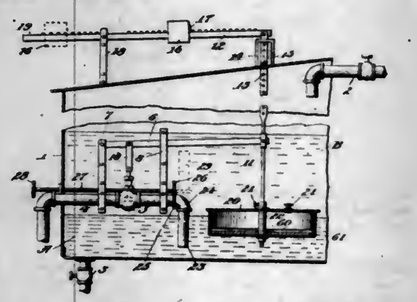
A force feed device including a cylinder and a co-operating piston, a feed screw extending into said cylinder and operative on the piston, a ratchet wheel applied to the outer end of the feed screw, a dog-equipped lever operative on the ratchet wheel, and manually actuated means for reciprocating said lever, in combination with a distributor having a feed pipe connected to the cylinder and having a plurality of individual oil delivery tubes, and a distributing valve in the distributor movable to open, at will, any one of the individual pipes while the others are closed.

1,459,485. EMPTYING DEVICE OR EMPTIER. GARY M. WHITNEY, Greybull, Wyo. Filed Mar. 7, 1922. Serial No. 541,739. 5 Claims. (Cl. 226—29.)



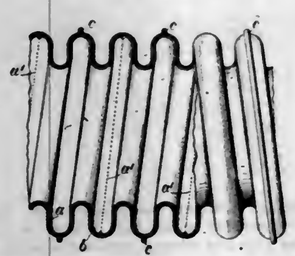
1. In an emptier, a discharge conduit for the contents of a container, said conduit consisting of a conically shaped tubular support for receiving the neck of a bottle-shaped container, and an air duct opening through the wall of the support to within the conduit and constructed to enter the discharge opening of the container and deliver air therein.

1,459,486. AUTOMATIC FLOAT VALVE FOR THE SEPARATION OF TWO IMMISCIBLE LIQUIDS. GARY M. WHITNEY and JOHN F. FLETCHER, Greybull, Wyo. Filed May 9, 1922. Serial No. 559,647. 7 Claims. (Cl. 210—54.)



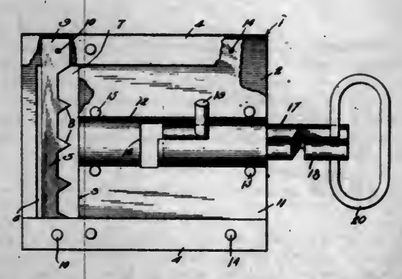
1. An automatic float controlled valve comprising the combination of a valve, a lever to operate said valve, a guide for said lever, a float, a supporting rod therefor, said rod pivoted to said valve lever, a balance arm, said rod pivoted to said balance arm, and an adjustable counterpoise on said balance arm.

1,459,487. FLEXIBLE METAL HOSE. EMIL WITZENMANN, Pforzheim, Germany. Filed Apr. 29, 1921. Serial No. 465,516. 5 Claims. (Cl. 137—75.)



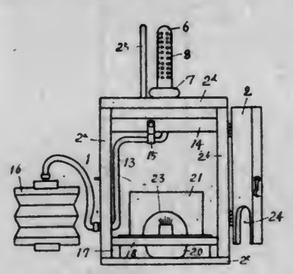
1. A flexible double-walled metal hose, comprising, in combination, an inner spirally wound metal band of corrugated transverse section having the adjacent edges of its windings united by a welded seam, and an outer spirally wound metal band of corresponding transverse section having the adjacent edges of its windings merely contacting with each other.

1,459,488. HOOK. GEORGE MILLER WOFFORD and JOHN ALONZO BRISTOW, Athens, Tex. Filed Nov. 30, 1921. Serial No. 518,937. 2 Claims. (Cl. 54—55.)



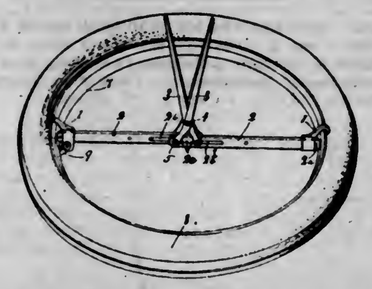
2. In a device of the class described, a body including a main plate having overhanging flanges; an auxiliary plate on the main plate and engaged beneath the flanges, the auxiliary plate being provided with a guide and being of less length than the main plate; means on the main plate and engaged by the flanges, for receiving a flexible element; and a bolt slidable in the guide, the bolt being provided with a hook which is closed by the guide when the bolt is retracted; and interengaging elements on the bolt and the guide, for holding the bolt retracted.

1,459,489. THERAPEUTICAL APPARATUS. KINSAKU YAMADA, Tokyo, Japan. Filed Apr. 28, 1921. Serial No. 465,314. 1 Claim. (Cl. 128—184.)



A therapeutical apparatus consisting in a combination of a heating box provided with a hinged door part of which is cut off, heat radiator provided within the heating box, a lid fitted to a hole at the top board of the heating box, a hot air tube perforated with innumerable small holes and inserted in the hole of the lid, exhaust tube provided within the hot air tube, and a pipe for leading the hot air outside of the heating box, substantially as and for the purposes hereinbefore set forth.

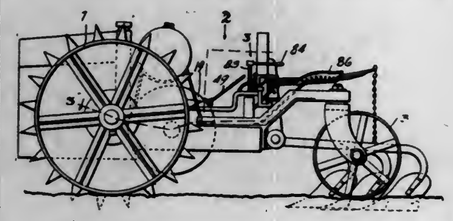
1,459,490. TIRE TOOL. BENGT J. YOUNG, Minneapolis, Minn. Filed Apr. 19, 1919. Serial No. 291,405. 2 Claims. (Cl. 157—1.)



1. In a tire tool, the combination of bars provided with rim-engaging hooks at their outer ends, and at their inner ends each having a hole and a slot, and crossed levers pivotally connected together and each pivoted at said hole in a bar by a bolt having a sliding connection in the slot of the other bar.

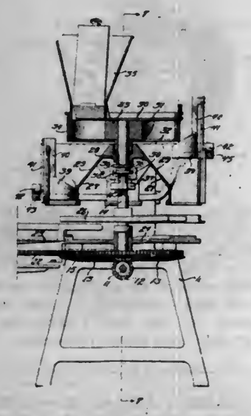
1,459,491. TRACTOR TRANSMISSION. GEORGE J. ZIEGLER, Los Angeles, Calif. Filed Jan. 16, 1922. Serial No. 529,537. 8 Claims. (Cl. 180—17.)

1. In a transmission, a transmission shaft mounted transversely, a bevel gear fixed upon one end of the transmission shaft, a spider loosely mounted upon the center of the transmission shaft, pinions mounted in the spider in mesh with the bevel gear, a second bevel gear loosely mounted upon the other end of the transmission shaft in mesh with the pinions, a transmission case in which the transmission shaft is mounted, a face gear rigid with the case, a ring slidingly splined upon the spider, a second face gear upon the ring adapted to mesh with the case gear, a third face gear upon the



second bevel gear, a fourth face gear upon the ring adapted to mesh with the third face gear, a handle for operating the ring, a drive shaft, a bevel gear upon the drive shaft in mesh with the second bevel gear, jack shafts one at each end of the transmission shaft, clutches normally connecting the jack shafts to the transmission shaft, and means for releasing either or both clutches.

1,459,492. CAN-FILLING MACHINE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J. Filed Apr. 18, 1922. Serial No. 554,995. 5 Claims. (Cl. 226—96.)

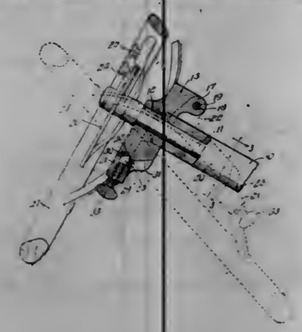


1. In a can filling machine, a bed plate having a discharge opening; a measuring wheel rotatable upon the bed plate; a shaft adapted to rotate the measuring wheel; a hub mounted on the shaft and carrying a series of funnels, each funnel having an inclined inner face, a vertical outer face and a vertically walled throat, and plungers arranged to reciprocate upon the vertical walls of the funnels and to take into the throats.

1,459,493. TILTING STEERING WHEEL. PERRY S. BAUER, Chicago, Ill. Filed Jan. 28, 1922. Serial No. 532,363. 4 Claims. (Cl. 74—33.)

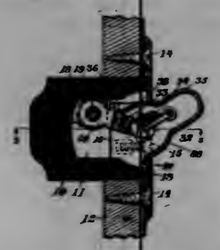
1. In an automobile, a steering column, a steering shaft rotatably mounted therein, an inner hub part of the steering wheel secured to said steering shaft, a steering wheel including a bow-shaped outer hub part embracing the inner hub part, a pivot connecting the

ends of the bow to the inner hub part in front of the steering column, the connecting portion of the bow



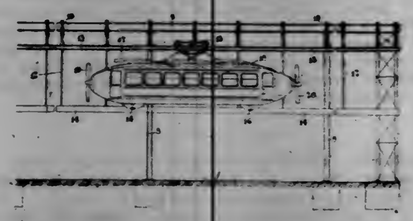
being curved upwardly and rearwardly to provide clearance for the steering column, and means for securing the wheel against tilting movement.

1,459,494. ELECTRIC SWITCH. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 19, 1919. Serial No. 298,240. 8 Claims. (Cl. 200—67.)



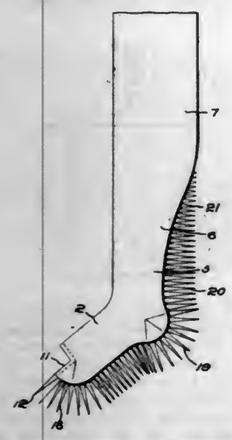
1. In an electric switch, a supporting member, fixed and movable contacts, snap-action mechanism comprising a part terminating in pivotal extensions positioned in recesses in the face of said supporting member, an escutcheon plate secured to the face of said supporting member to hold said extensions in place, and a hollow actuating member for said switch embracing and enclosing portions of said snap-action mechanism.

1,459,495. SYSTEM OF AERIAL TRANSPORT. GEORGE BENNIE, Bute, Scotland. Filed Apr. 9, 1923. Serial No. 630,881. 4 Claims. (Cl. 104—23.)



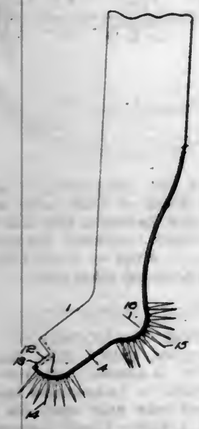
1. A system of aerial transport comprising in combination a vehicle, a rigid track for the suspension and a rigid track for the guiding of the said vehicle, between which tracks the vehicle is accommodated, air propellers for driving the vehicle and means capable of lifting the vehicle at a high speed of the latter, whereby the weight of the vehicle is wholly supported by the air or partly by the air and partly by the suspension track.

1,459,496. HOSIERY AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed July 5, 1919. Serial No. 308,883. 7 Claims. (Cl. 66—4.)



1. A stocking including continuous circular knitted instep of the foot, ankle and fashioned calf portions and reciprocatingly knitted toe and heel pockets, and a seam extending from the top of the toe over the front thereof and thence along the center of the bottom of the foot and along the center of the back of the leg.

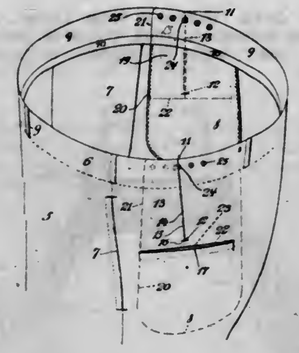
1,459,497. HOSIERY AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed June 26, 1920. Serial No. 392,050. 8 Claims. (Cl. 66—4.)



1. In a stocking blank, a strip comprising foot, ankle and fashioned calf portions and an integral tubular web

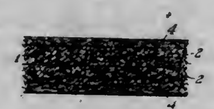
constituting the leg, said foot being characterized by a heel pocket composed of narrowed and widened courses formed in two spaced gored sections united by floating yarns, the portions of the foot and ankle adjoining said heel having oppositely selvaged edges.

1,459,498. TROUSERS. ABRAHAM H. BRICKER, Brooklyn, N. Y. Filed Jan. 30, 1922. Serial No. 532,561. 1 Claim. (Cl. 2—143.)



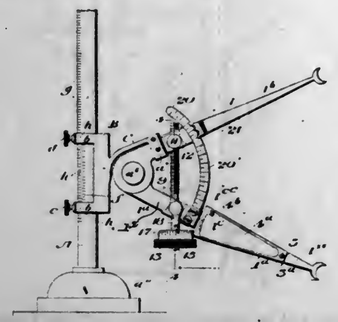
A pair of trousers having rear pockets provided with a slit extending through the upper part of the trousers down to a point adjacent the rear pocket opening, thereby forming a front adjustable flap, a piece of material secured to the rear edge of said slit and extending forwardly to a line flush with the forward edge of the said rear pocket, a waist lining and skirt extending flush with said rear edge of said slit and forward edge of said rear pocket, a rear pocket lining secured to the inside of said trousers, the forward edge of said lining being in alinement with and flush with the rear edge of said slit, thereby providing a heavily reinforced surface covered on the outside by said piece of material secured to the rear edge of said slit, and on the inside by three said layers of material, and means for adjusting the size of said trousers by moving the said flap in over the said piece of material and the part of the trousers adjacent the slit.

1,459,499. WATERPROOF SHEET MATERIAL AND PROCESS OF MAKING THE SAME. HERMAN E. BROWN, Kingston, N. Y., and JORDAN HOMER STOVER, Nutley, N. J., assignors, by mesne assignments, to Multi-Fabric Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1921. Serial No. 519,333. 14 Claims. (Cl. 154—2.)



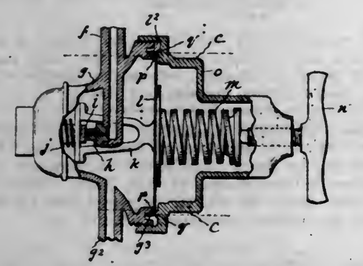
1. The herein described process of producing a waterproof fabric, which consists in coating an unwoven fibrous sheet material on opposite faces with a flexible waterproof binding material, splitting the sheet material, and uniting the coated faces thereof to produce a centrally located waterproof stratum in the resulting sheet material, and then applying a coating of waterproof material to at least one exterior face of the resulting sheet material.

1,459,500. MICROMETER CALIPER HEIGHT AND SURFACE GAUGE. FRED B. CADY, Utica, N. Y. Filed June 12, 1919. Serial No. 303,587. 2 Claims. (Cl. 33—169.)



1. Calipers of the type described, comprising pivoted together leg-members, one leg-member being in sections, one section 1^x being partially housed and pivoted within the other leg section, a micrometer-member or needle pivoted within one of the leg sections, and a member 8^a forming an elongation of the pivoted end of the other leg-section, said elongated leg-section member being provided with pairs of resilient members, one pair of the latter being adapted to function with the micrometer needle and the other pair of said resilient members adapted to function with said leg-member elongation for the purpose set forth.

1,459,501. HIGH-PRESSURE REGULATOR. CHARLES HOWELL DOCKSON, Detroit, Mich. Filed Apr. 2, 1920. Serial No. 370,726. 1 Claim. (Cl. 50—23.)

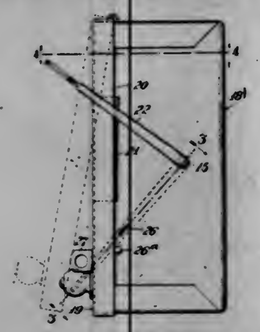


In a pressure regulator, a hollow casing comprising male and female sections adjustably secured together, such sections having opposed circumferential bearing surfaces, a removable flexible diaphragm adapted to be gripped between said surfaces to divide the interior of the casing into two compartments, an annular gasket interposed between said diaphragm and one of said bearing surfaces, the bearing surface of one section provided with an annular groove having a rounded lip, the bearing surface of the other section provided with a rounded annular bead slightly offset exteriorly of the groove of the other section to engage the diaphragm and draw the same over the rounded lip of the other section into the groove thereof.

1,459,502. SWITCH BOX. ADOLPH E. FOHN, Montgomery, Ill., assignor to Aurora Steel Products Company, Aurora, Ill., a Corporation of Illinois. Filed Mar. 28, 1921. Serial No. 456,253. 4 Claims. (Cl. 200—50.)

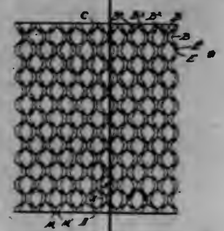
1. The combination with a box-body and a cover therefor having a flange extending alongside the said body, of

a lever pivotally connected with said body at a distance from said flange, and a spring-pressed latch carried by



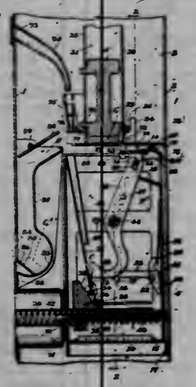
said lever and in constant contact with the flange when the cover is closed, said box having an opening adapted to receive said latch when said cover is opened.

1,459,503. RADIATOR CONSTRUCTION. REX C. GLOVER, Flint, Mich. Filed Apr. 27, 1917. Serial No. 164,831. 2 Claims. (Cl. 257—130.)



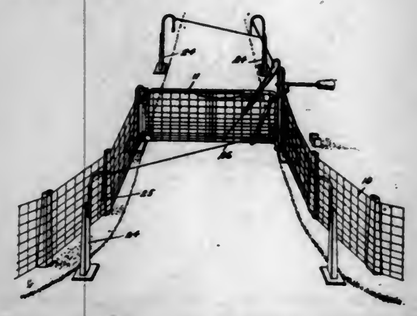
1. A radiator water unit formed by a pair of adjacent plates each having a plurality of gear tooth shaped portions nested in alternate relation to provide a continuous water passage between said plates.

1,459,504. VENDING MACHINE. ALBERT D. GROVER, New York, N. Y., and EARL E. BARBER, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed Oct. 12, 1915, Serial No. 55,271. Renewed Jan. 17, 1921. Serial No. 437,964. 10 Claims. (Cl. 211—8.)



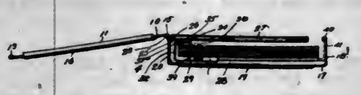
1. In a vending machine having an outer casing, a transverse shelf or partition secured in said casing, a plurality of unit frameworks mounted on said transverse shelf side by side, ejecting mechanism mounted in each of said frameworks, cooperating means on said shelf and said frameworks for rigidly securing each framework on the shelf independently of the others, a second transverse shelf secured in said casing above said frameworks, a plurality of magazines mounted on said second shelf side by side in vertical alignment with said frameworks, and cooperating means on said second shelf and said magazines for removably securing each magazine in place on said second shelf independently of the others.

1,459,505. GATE. HAROLD F. GUTH, London, Ohio, assignor to Frederick A. Guth, Columbus, Ohio. Filed Aug. 15, 1921. Serial No. 492,502. 3 Claims. (Cl. 39—44.)



1. A gate including a gate panel, a supporting means for said gate panel, and pivoting means associated with said supporting means and attached to said panel for permitting a swinging movement of said panel through its normal plane of travel and also permitting of a limited movement of said panel in a plane transverse to said normal plane of travel.

1,459,506. SALES-BOOK COVER. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Mar. 3, 1921. Serial No. 449,449. 3 Claims. (Cl. 129—1.)

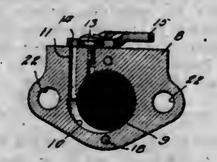


1. A cover comprising a front cover having a beaded front end and inturned flanges along its side margins and a series of tongues bent into eyes formed along its rear end, a back cover having formed integral therewith a rightangular portion performing the function of a back and on its opposite end a rightangular portion, an intermediate member cmoposed of wire and sheet metal pivotally secured along the upper edge of the rightangular portion formed on the front edge of the cover, and a spring clamp secured to the end of said member opposite to the upturned rightangular portion.

1,459,507. LIQUID-FUEL VAPORIZER. SAMUEL G. HOUSE, Miami, Fla. Filed Aug. 7, 1922. Serial No. 580,354. 1 Claim. (Cl. 48—180.)

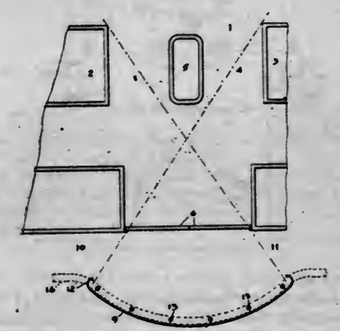
A liquid fuel vaporizer comprising a body, a central bore therein, a reticulated element covering said bore, a liquid receiving chamber positioned adjacent to said bore, said chamber and bore communicating with each other, an air passage disposed tangentially to the bore connecting the chamber with the exterior of the body,

the shape of the air passage and chamber forcing air which enters said chamber to cause liquid fuel in said chamber to readily vaporize by the whorling vortex mo-



tion imparted, a valve pivotally mounted on one face of said vaporizer and an arcuate port in the valve adapted to register with said air passage.

1,459,508. MEANS FOR PREVENTING DRAFTS IN DOORWAYS. UTAKICHI KAWASAKI, San Francisco, Calif. Filed Mar. 10, 1920. Serial No. 364,827. 3 Claims. (Cl. 98—27.)



1. In combination with the entrance or doorway of a building or store of a draft deflector mounted rearwardly of and spaced from the inner end of the doorway, said deflector being wider than the inner end of the doorway and exhaust means for reducing any excess atmospheric pressure entering through the doorway, which exhaust means is operatively associated with said deflector.

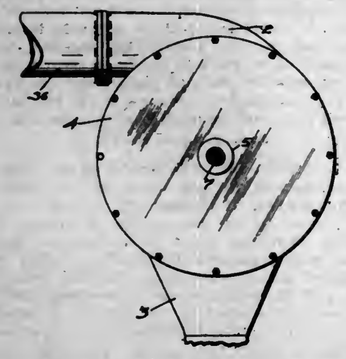
1,459,509. CUP PACKING FOR PUMPS AND THE LIKE. PAUL J. KNOTHE, Fort Wayne, Ind., assignor to Montpelier Manufacturing Company, Montpelier, Ind., a Corporation. Filed Oct. 24, 1921. Serial No. 509,829. 4 Claims. (Cl. 154—45.5.)



1. A cup packing formed of a plurality of layers of rubberized fabric and intermediate layers of fabric coated with an adhesive or viscous material other than rubber.

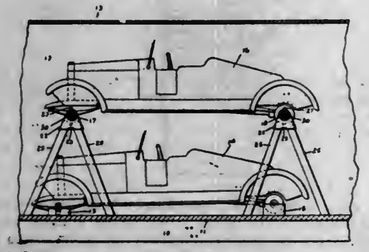
1,459,510. FLUID TURBINE. DELL KOEHLER, San Francisco, Calif. Filed July 30, 1921. Serial No. 488,500. 2 Claims. (Cl. 253—65.)

1. In a fluid turbine, the combination of a casing having inlet and outlet pipes, a partition therein, a plurality of nozzles carried thereby in concentric series several nozzles of each series leading to separate fluid supply chambers, a runner adjacent the nozzles, and means to gradually increase or reduce the fluid supply to each of



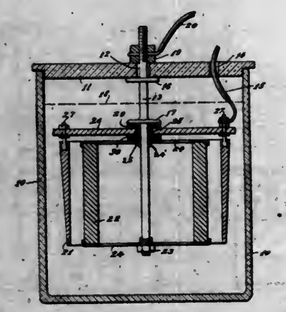
the separate nozzle chambers whereby the number of nozzles used remains constant regardless of the amount of fluid supplied to the nozzle chambers.

1,459,511. SHIPPING DECK. JESSE C. MCCOMAS, Indianapolis, Ind. Filed July 26, 1920. Serial No. 399,009. 5 Claims. (Cl. 105—368.)



1. A unitary vehicle supporting member comprising a body portion providing a hub for replacing the vehicle wheel and receiving the vehicle supporting member thereof, means secured to said body portion for transverse bracing purposes, and integral socket means adapted to receive supporting standard means.

1,459,512. PRIMARY BATTERY. MARTIN L. MARTUS, Woodbury, Conn. Filed Dec. 9, 1921. Serial No. 521,076. 7 Claims. (Cl. 204—38.)



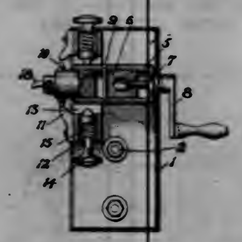
7. In a cylindrical form of assembled primary battery adapted to be removably suspended from a cover of a

battery jar, the combination of a single supporting rod having a shoulder formed upon one end portion to engage the cover of the battery jar, and a second shoulder to support the battery elements at a fixed distance below the cover, a cylindrical positive electrode insulatively mounted upon the rod, a cylindrical negative electrode also mounted upon the rod, insulating means upon the rod and between the two said positive and negative electrodes, and a single nut for securing the two said electrodes and the insulating in position upon the said rod.

1,459,513. MANUFACTURE OF VINEGAR. JAMES D. MONROE, Birmingham, Ala. Filed Mar. 21, 1921. Serial No. 454,204. 2 Claims. (Cl. 99—17.)

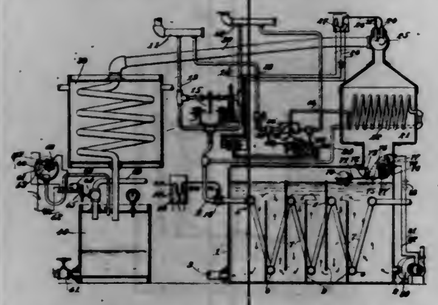
2. A process for the manufacture of vinegar, which consists in combining liquid yeast, sugar, a flavoring acid and water, allowing the batch to stand during its period of active fermentation, removing excess products of such fermentation, and accelerating the aging of the resultant product by the addition of previously aged vinegar in volume approximately ten per cent of the batch.

1,459,514. ATTACHMENT FOR LATHES. JOHN C. OLSEN, Rock Island, Ill. Filed July 7, 1922. Serial No. 573,488. 3 Claims. (Cl. 82—12.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



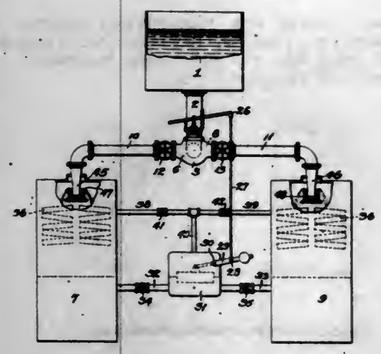
1. A lathe attachment, including a supporting plate, a casing pivoted to the plate, a tool holder slidable longitudinally within the casing, manually operable means for moving the tool holder to adjusted position within the casing, a lug on the tool holder, a cam surface connected to the plate and engageable by the lug for limiting the movement of the tool holder in one direction, resilient means tending to rock the casing on its pivot to force the lug against the cam surface and a cutting tool carried by the tool holder.

1,459,515. APPARATUS FOR CRACKING OILS. WILLIAM B. D. PENNIMAN, Baltimore, Md. Filed Mar. 10, 1917. Serial No. 153,793. 7 Claims. (Cl. 196—3.)



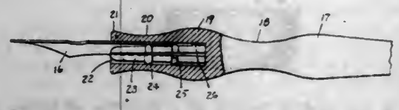
1. In an apparatus for cracking oils under pressure, a closed container for the oil, means for heating the same, a condenser, means for leading the gas and vapor from the heated oil to the condenser, means in the form of a steam coil for bringing the gases and vapors as they pass from the container to a uniform predetermined temperature, means for supplying steam, and thermostatic means actuated in correspondence to the variations in temperature of the gases which have been in heat exchanging relation with the coil to control the passage of steam to the coil.

1,459,516. COMBINATION REGULATING VALVE FOR FEED-WATER HEATERS. KARL W. ROHLIN, Philadelphia, Pa., assignor to Warren Webster & Company, Camden, N. J., a Corporation of New Jersey. Filed June 16, 1920. Serial No. 389,353. 9 Claims. (Cl. 137—68.)



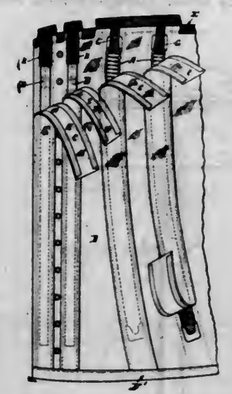
1. In a device for controlling the delivery of water to a plurality of feed water heaters, the combination of a source of water supply, means for conveying the same to said heaters, a valve element in the line of said communication having independent sets of ports in different horizontal planes; the respective sets of ports of said valve element being of an area to feed equal or proportioned amounts of water to each of said feed water heaters, and means for controlling the vertical position of said valve element whereby equal or proportioned feed to a plurality of heaters may take place simultaneously when the ports of the same are opened.

1,459,517. PEN AND PENCIL HOLDER. THOMAS C. SAWYERS, Indianapolis, Ind. Filed Nov. 20, 1922. Serial No. 602,125. 4 Claims. (Cl. 120—102.)



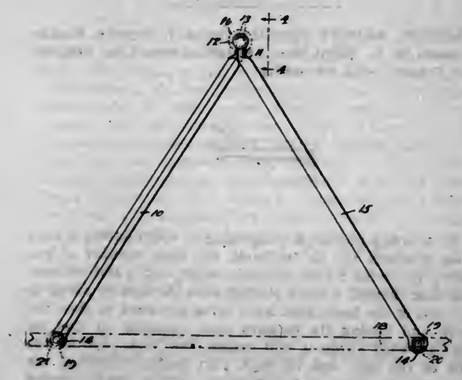
4. A penholder having a central and longitudinally extending bore in the writing end thereof, a pen-point receiving member adaptedto extend into and be secured within said bore, an annular bead formed about the periphery of said member, a shoulder formed thereon for limiting the inner movement of said pen-point when inserted in said bore, and a purchasing projection formed on the periphery of said member for engaging in the wall of said bore and locking said member therein when said pen-point is inserted between said wall and bead.

1,459,518. CORSET. CHARLES C. SELEY, Erie, Pa., assignor to George H. Barlow and J. J. Desmond, both of Corry, Pa. Filed Mar. 27, 1922. Serial No. 547,207. 2 Claims. (Cl. 2—76.)



1. In a garment of the class described, a stay having an opening therethrough adjacent to the upper end thereof, a pocket to receive said stay, a fabric loop extending through said opening and projecting beyond the extremity of said stay and adapted to be stitched to said garment.

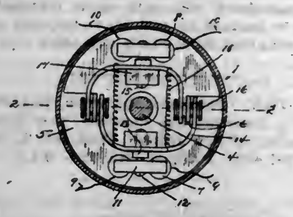
1,459,519. SHEET-METAL RADIUS ROD. ROBERT P. SIMMONS, Cleveland, Ohio. Filed Mar. 20, 1923. Serial No. 626,249. 10 Claims. (Cl. 267—66.)



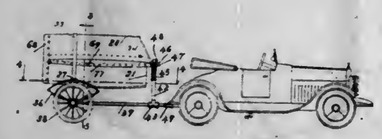
1. A sheet metal radius rod having a hemispherical enlargement at one end, and an apertured enlargement at the opposite end.

1,459,520. ELECTRIC SWITCH. CHRIS L. VOLZ, Detroit, Mich. Filed Sept. 3, 1921. Serial No. 498,291. 11 Claims. (Cl. 200—80.)

1. In an electric switch, the combination with a revoluble carrier centrally apertured to receive a driven shaft, of a plurality of contacts mounted thereon, and a plurality of contact members having a common pivotal mounting on said carrier and adapted to engage the respective contacts when said carrier reaches a predetermined speed of rotation.



1,459,521. TRAILER. HENRY WENNEBORG, Springfield, Ill., assignor of one-half to Enos S. Spindel, Springfield, Ill. Filed Nov. 30, 1921. Serial No. 518,936. 9 Claims. (Cl. 296—23.)



1. In a trailer, the combination of running gear; a centrally depressed yoke carried by the running gear; rollers in the depressed part of the yoke; a lower boat section adapted to travel on the rollers in the depressed yoke; an upper boat section inverted on the lower boat section; means connecting both boat sections with the yoke; and a yielding support on the running gear supporting one end of the united boat sections.

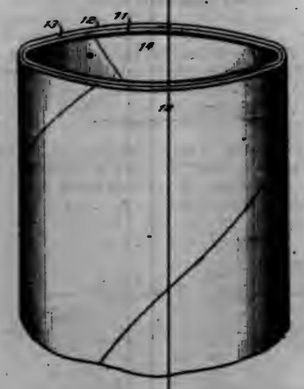
1,459,522. WINDOW GUARD. CHARLES S. WOODS, Indianapolis, Ind. Filed Dec. 23, 1921. Serial No. 524,399. 3 Claims. (Cl. 20—71.)



1. A window grating comprising a pair of upright members, adjustably connected cross bars mounted between said members, one of said bars having screw

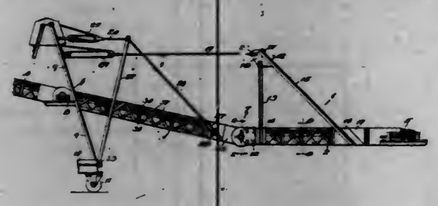
threads thereon, an internally threaded sleeve mounted on said screw threaded bar so as to engage with the screw threads thereon, and a projecting member on the other bar associated with said screw threaded bar in position to be engaged by said sleeve, whereby said bars may be forced apart for laterally expanding said grating.

1,459,523. CAN. FREDERICK O. WOOD, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 5, 1920. Serial No. 349,483. 1 Claim. (Cl. 229—3.1.)



A grease-proof container having an outer ply of suitable fibrous material, an inner ply of parchment paper, hide glue uniting said outer and inner plies, and a grease-proof coating on the inner side of said inner ply.

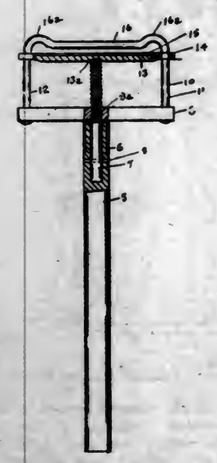
1,459,524. CONVEYING MACHINE. FRED WRIGHT, Waukegan, Ill., assignor, by mesne assignments, to Standard Conveyor Company, North St. Paul, Minn., a Corporation of Minnesota. Filed June 11, 1919. Serial No. 303,366. 11 Claims. (Cl. 198—109.)



1. In combination, a plurality of hinged plate members, angle irons forming guides secured to each of the plate members, one of said members having a cylindrical bearing portion, a shaft passing thru the bearing portion, the other plate member having a bearing box embracing a portion of the cylindrical bearing portion, one of said members having a cylindrical hub portion adapted to be substantially tangent to said guides, and a conveyor web having rollers adapted to run thru said guides and over said hub or boss.

1,459,525. MOP. THOMAS J. FINTON, Springfield, Mass., assignor to Patrick J. Looley, Holyoke, Mass. Filed Apr. 6, 1922. Serial No. 550,173. 1 Claim. (Cl. 15—153.)

A mop device comprising a handle having a ferrule on one end thereof, a shank inserted in said handle end and pinned to said ferrule, said shank having a screw threaded portion projecting from said handle, a cross bar threaded on said shank, a U-shaped wire frame comprising side bars and a resilient cross bar, the ends of the side bars being fixed to the ends of the cross bar and the resilient bar having an inset portion connected to the side bars by endwise projecting spring loops presenting rounded work



bearing surfaces, and a clamping jaw bar having sliding terminal engagement with the side bars and a central bearing on the terminal of the threaded shank, said clamping bar having a longitudinal groove facing the inset cross bar, whereby the mop fabric will be forced into said groove by said inset cross bar and said cross bar will be held under tension by said spring loops.

1,459,526. SAFETY CATCH. OSCAR T. FENTON, Hightstown, N. J. Filed Nov. 11, 1922. Serial No. 600,385. 3 Claims. (Cl. 24—157.)

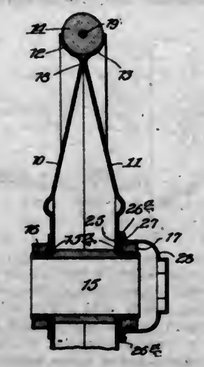


1. A safety pin catch comprising in combination a body with a safety pin on its back, the hook member of the safety pin being a rigid one-piece hook with a slot through the back thereof, a latch pivoted near the back to swing in the slot of the hook, said latch being arranged to close the hook and having its forward part extended so that on its backward swing it will engage the hook back at the end of the slot, and its back part projected beyond the slot end to form a finger catch, and a spring coiled around the pivot of the latch and operatively connected to the latch to normally close the hook.

1,459,527. WHEEL FOR COASTER WAGONS. HOWARD J. FERRIS, Harvard, Ill. Filed Oct. 16, 1922. Serial No. 594,998. 2 Claims. (Cl. 301—63.)

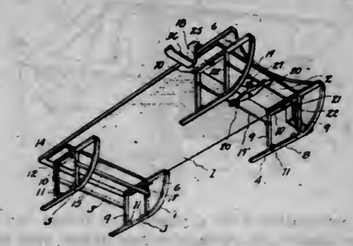
A wheel for coaster wagons comprising, in combination, a hub having spaced shoulders, disks each centrally seated on said hub, oppositely disposed peripheral flanges on said disks adapted to serve as a seat for the tire, said

disks contacting at points adjacent said peripheral flanges, means carried by said hub to force the central portions



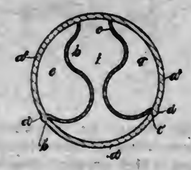
of said disks against said shoulders and to secure them and thereby to exert pressure at the meeting points of said disks.

1,459,528. SLED. SIDNEY S. GRIFFIN, Seattle, Wash., assignor to Curtis Coaster Toy Co., Seattle, Wash. Filed Feb. 16, 1920, Serial No. 359,134. Renewed Dec. 1, 1922. 1 Claim. (Cl. 280—16.)



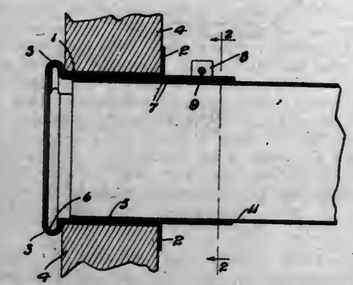
In a sled of the character described, a sled body, a truck comprising a pair of parallel runners, each runner comprising a top and bottom rail and two vertical, apertured brace members, means pivotally attaching the runners to the body at transverse points thereof, a pair of transverse connecting rods having horizontal loops at their opposite ends extending through the apertures of corresponding vertical brace members and having vertical loops formed at their centers, a steering pin rotatably mounted and extended vertically through the body, a cross bar fixed at the lower end of said pin having its ends extended slidably through said central loops of the connecting rods and a steering bar fixed on the upper end of the pin and transversely overlying the sled body.

1,459,529. PNEUMATIC TIRE. THOMAS GRIFFITHS, Kensington, Liverpool, England. Filed May 16, 1922. Serial No. 561,525. 1 Claim. (Cl. 152—22.)



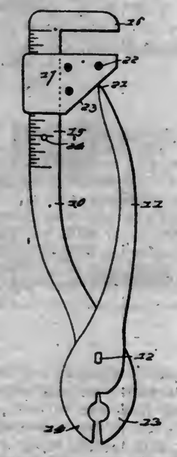
An inner tube for a pneumatic tire which tube has tread and base portions and is divided by means of two normally unstretched india rubber partitions into a substantially vertical middle compartment and two substantially vertical side compartments, said partitions having parallel lines of union with the base portion of the tube and with the tread portion of the tube, the spacing of the tread edges of the partitions being greater than the spacing of the base edges of the partitions, the arrangement of said partitions being such as to insure a substantial distance being provided between the lines of union of the partitions with the wall of the tube, and exterior beads opposite the lines of union of the partition edges with the tread portion of the tube.

1,459,530. THIMBLE CONSTRUCTION. WALTER WILLIAM GROBE, Hamilton, Ohio. Filed May 26, 1922. Serial No. 563,957. 2 Claims. (Cl. 126—318.)



2. A thimble construction comprising an outer cylindrical sleeve having means at each end to secure it in and through an opening in a chimney wall, a cylindrical sheet metal inner member longer than the sleeve inserted in said sleeve and having overlapping edge portions whereby the member may be compressed, interengaging means on the sleeve and said inner member at their inner ends for detachably connecting the same together, and means on the inner member for compressing and reducing the size thereof to clamp the same against a smoke pipe, substantially as described.

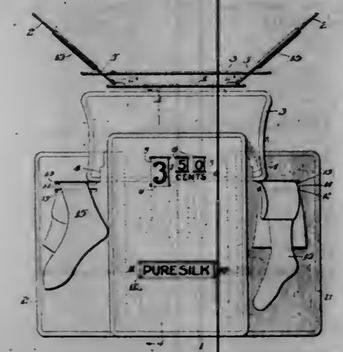
1,459,531. COMBINATION TOOL. EMIL J. HANSON, Viroqua, Wis. Filed Jan. 18, 1922. Serial No. 530,048. 4 Claims. (Cl. 7—7.)



2. A tool having pivotally connected shanks provided adjacent to their pivotal ends with complemental plier

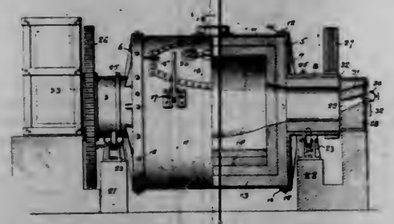
jaws and at their opposite ends respectively with a rigid wrench jaw and a tooth, and a movable wrench jaw mounted upon the shank which carries the rigid jaw and provided with an obliquely disposed ratchet face in the path of movement of the tooth on the extremity of the other shank for engaging the tooth.

1,459,532. EXHIBITOR FOR GOODS. MAC HARLAN, Des Moines, Iowa, assignor to Des Moines Hosiery Mills, Des Moines, Iowa, a Corporation of Iowa. Filed Feb. 13, 1922. Serial No. 535,970. 1 Claim. (Cl. 211—24.)



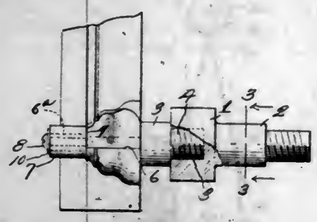
An exhibitor of the character stated consisting of a front member, side wings hinged thereto adapted to be opened-out and folded, a display head, the latter being adapted to be supported on said side wings and retain the latter in opened out position, means on said head and side wings for interlocking the same, means on said front member adapted to support a variable price list, means on said front member adapted to support a variable material list, and means on said side wings for supporting goods to be exhibited.

1,459,533. PUDDLING FURNACE. HENRY D. HIBBARD, Plainfield, N. J., assignor to Hibbard Process Corporation, New York, N. Y., a Corporation of New Jersey. Filed May 11, 1921. Serial No. 468,709. 21 Claims. (Cl. 263—33.)



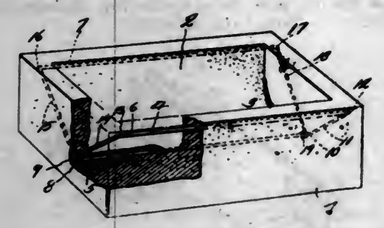
1. A puddling furnace comprising a cylindrical reaction vessel mounted on a horizontal axis and having an interior dam extending from end to end of the reaction chamber, together with a door opening through the wall of the chamber, said opening being of greater length than width and extending in a direction substantially parallel with the length of the dam.

1,459,534. WOODWORKING TOOL. ANTHONY H. HILKE, Fort Wayne, Ind. Filed June 5, 1922. Serial No. 565,834. 1 Claim. (Cl. 144—253.)



The combination with a rotary molding cutter, of guide means carried by said cutter, said guide means comprising a work engaging roller, said roller being rotatably mounted on an integral axial sleeve carried by the outer end of the cutter, a washer engaging the outer end of the roller and the sleeve and a screw extending through said washer and threaded into the sleeve.

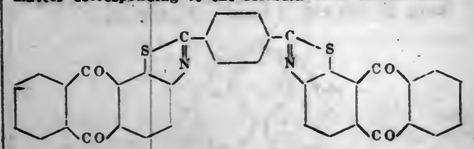
1,459,535. HOG TROUGH. WILLIAM HIRD, Cuba City, Wis. Filed Nov. 2, 1922. Serial No. 598,558. 1 Claim. (Cl. 119—61.)



The combination with a plastic hog trough having a chamber therein, of means for reinforcing said plastic trough, said means comprising a reinforcing frame, said frame being formed from a single piece of wire and comprising parallel longitudinally disposed bars, one of said bars being disposed on opposite sides of the chamber, another bar being disposed longitudinally below the bottom of the chamber and converging bars extending downwardly from the ends of the bars on the opposite sides of the chamber and connecting the bar disposed below the chamber thereto.

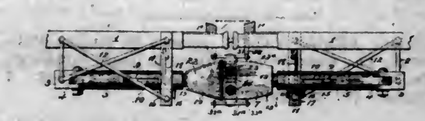
1,459,536. MANUFACTURE OF VAT COLORING MATTERS. FILIP KAČER, Mannheim, Germany, assignor to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-Rhine, Germany, a Corporation of Germany. Filed Jan. 4, 1923. Serial No. 610,706. 5 Claims. (Cl. 260—31.)

5. As a new article of manufacture a vat coloring matter corresponding to the formula



which product when treated in the alkali melt gives n-dihydro-anthraquinone azine (indanthrenebiue) and terephthalic acid, and which product dissolves in a pure state in concentrated sulfuric acid yellow and dyes cotton from a violet vat yellow tints.

1,459,537. COUPLING MECHANISM FOR TRAIN PIPES. LEA M. KING, Morristown, Tenn. Filed Oct. 8, 1919. Serial No. 329,258. 7 Claims. (Cl. 285—58.)



1. In coupling mechanism for train pipes, the combination with a block and a horizontal pivotal support therefor, of a tubular bar having a pivotal connection with said block at right angles to the pivotal support of the latter, springs bearing against diametrically opposite sides of said bar, a support for the forward portion of said tubular bar, springs under such forward support, a pipe coupling head, and a yielding connection between said head and tubular bar.

1,459,538. CARD REGISTER. JOSEPH KLATT, Chicago, Ill., assignor to W. W. Wilcox Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 20, 1922. Serial No. 530,599. 4 Claims. (Cl. 40—124.)



4. A card register of the type specified comprising in combination a frame, a vertical series of card carriers within the frame, each card carrier comprising a sheet metal plate having its upper portion folded backwardly and downwardly substantially parallel to its back surface, and having its lower portion folded forwardly and upwardly substantially parallel to its front surface, the upturned edge portion of each unit interlocking with the down turned edge portion of the next lower unit of the series, substantially as described.

1,459,539. ELECTRIC COOKING UTENSIL. HENRY KRUESHELD, New Washington, Ohio, assignor to The Perfection Electric Products Co., a Corporation of Ohio. Filed Apr. 18, 1922. Serial No. 554,703. 4 Claims. (Cl. 53—6.)



1. A leg for a cooking utensil, having a flange at the top adapted to fit against the bottom of the utensil, said bottom having a slot and said flange having a tongue engaging in said slot and also having an off-set part, and a clamping member fixed to the bottom of the utensil and having a hooked portion engaging said off-set part.

1,459,540. SECTIONAL MATTRESS. ERNST LABENS, Detroit, Mich. Filed Mar. 20, 1922. Serial No. 545,046. 1 Claim. (Cl. 5—351.)

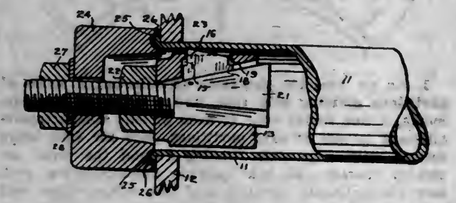


A mattress section comprising a frame, a bottom piece on said frame and provided with openings, containers on said bottom piece and provided with individual pockets, springs in the individual pockets of said containers, means connecting the end and side containers to said frame with the central containers loose on said bottom piece, a casing over said containers and connected to said frame, cushions on said casing, a cover over said cushions and connected to said frame, and a cushioning shield on the lower face of said frame and bottom piece, said shield having openings registering with the openings of said bottom piece.

1,459,541. BLOOD-ALBUMIN GLUE. ALFRED C. LINDAUER, Madison, Wis., dedicated, by mesne assignments, to the People of the United States. Filed Aug. 26, 1922. Serial No. 584,539. 3 Claims. (Cl. 87—17.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A glue, consisting essentially of dry blood albumin, water, ammonium hydroxide and paraformaldehyde (trioxymethylene).

1,459,542. BOILER-TUBE REPAIR PLUG. HENRY N. MCCATHRON, Bridgeport, Conn. Filed June 25, 1921. Serial No. 480,325. 4 Claims. (Cl. 137—76.)

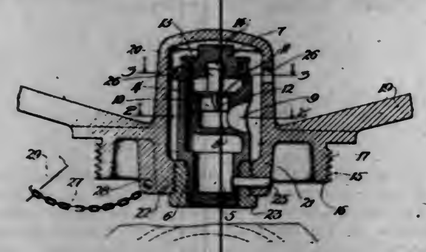


1. In a device for sealing the end of a conduit, a body portion adapted to be slid in said conduit, lugs contained within the body portion and projecting outwardly therefrom, a bolt provided with an enlarged end, a nut engaging the body portion and bolt to draw the enlarged end thereof against said lugs and press the same outwardly for engagement with the inner walls of said conduit, a closure member provided with a packing ring and adapted to be clamped against the end of said conduit, and a nut in co-operation with said member and bolt to retain the closure member in position and seal the conduit.

1,459,543. AIR VALVE AND THE LIKE. JOHN M. MCDONALD, Dubuque, Iowa, assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa, a Corporation of Iowa. Filed June 27, 1921. Serial No. 480,856. 5 Claims. (Cl. 220—44.)

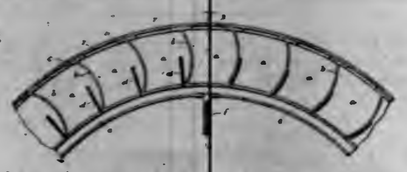
1. In a device of the class described, the combination of a cap having a downwardly depending exteriorly

threaded flange adapted to thread into the opening of a tank, an integrally formed radially extending arm for turning said cap, an upwardly extending housing in the central portion of the cap and between the arms, and having a vent opening, a downwardly depending flange in conjunction with said housing serving to provide therewith a valve chamber, an inturned interiorly threaded shoulder portion on the lower end of said flange,



a bushing threaded into said shoulder, said bushing also being interiorly threaded, a cylindrical valve member having a downwardly depending neck adapted to thread into the bushing, said valve member being smaller in diameter than the opening in the shoulder portion of the flange of the cap, and a rivet extending through the neck of the valve, through the bushing, and through the flange of the cap, substantially as described.

1,459,544. AIR TUBE FOR PNEUMATIC TIRES. THOMAS BAKER MCLEROTH, London, England, assignor to T. B. McLeroth (Tubes) Limited, London, England, a British Company. Filed June 16, 1920. Serial No. 389,293. 6 Claims. (Cl. 152—22.)



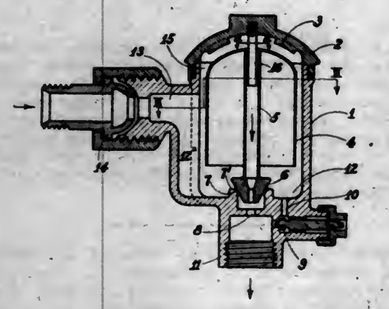
1. An air tube for pneumatic tires having a series of partitions dividing said tube into a series of compartments, a fine rubber tube in each of said compartments adjacent to one of said partitions, said air tube being formed with a passage running around the inner periphery thereof and said passage communicating with said compartments through said fine rubber tubes and being provided with an inflation valve.

1,459,545. VEHICLE. PHILIP A. MICHELL, Fort Wadsworth, N. Y. Filed Apr. 21, 1921. Serial No. 463,303. 1 Claim. (Cl. 280—16.)



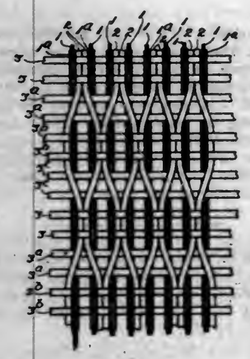
A vehicle of the type indicated having a base, front and rear supporting members provided with hangers mounted upon the base, the hanger of the front supporting member being swiveled in the base and having an upwardly extending stud, a steering member mounted on said stud, the steering member and the stud being provided with keyways, and a split collar disposed in surrounding relation to the connecting ends of the stud and steering member and having a key engaging in said keyways.

1,459,546. RELIEF VALVE. ARNOLD W. MILLER, Pittsburgh, Pa., assignor to C. Howard Hook, Pittsburgh, Pa. Filed June 23, 1921. Serial No. 479,902. 7 Claims. (Cl. 137—113.)



1. A relief valve comprising a casing, the bottom of said casing having an opening surrounded by a valve seat, a valve coacting with said valve seat, means freely and loosely mounted in said casing responsive to the level of the liquid therein for controlling said valve, said casing having an unobstructed baffleless offset portion of sufficient size at the side thereof for admitting fluids thereto whereby the admission of said fluids will not cause objectionable deflection of the said controlling means and valve.

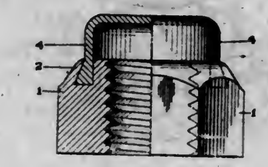
1,459,547. ELASTIC WOVEN FABRIC. GEORGE C. MOORE and THOMAS F. MOORE, Westerly, R. I. Filed Aug. 24, 1922. Serial No. 584,044. 1 Claim. (Cl. 139—421.)



The described elastic woven fabric composed of warps and wefts or filling in sets comprising a pair of wound or covered elastic strands, a pair of warp-threads, or a pair of groups thereof, and weft or filling, said fabric having the pair of elastic strands covered at face and back of the fabric by the interwoven weft or filling and warp-threads, with the pair of warp-threads first located between the two elastic strands and bound at the under face of the fabric by one or more picks of weft or filling below the elastic strands, then crossed at the top face of the fabric above one or more picks of weft or filling overlying the elastic strands, and diverging from each other in opposite directions to the outer

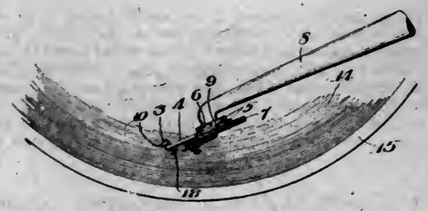
side of the two elastic strands, then bound at the under face of the fabric by weft or filling, and then crossed back toward each other at the upper surface of the fabric, converging toward each other over the pair of elastic strands and also over one or more picks of weft or filling, and then passing down together between the two elastic strands and bound by weft or filling at the under face of the fabric as before, and so on.

1,459,548. CAP NUT. DONALD BAENS MORISON, Hartlepool, England. Filed Oct. 4, 1921. Serial No. 505,442. 1 Claim. (Cl. 85—35.)



A cap nut, comprising a cap having an outwardly extending annular depending base of greater diameter than the body of the cap, a nut having an annular recess in which the depending base of the cap is positioned, said recess being bordered by a locking flange adapted to be mechanically repositioned over the extended base of the cap whereby the locking flange and the base of the cap are integrally interlocked.

1,459,549. PHONOGRAPH-RECORD CLEANER AND CLARIFIER. JOHN O'DONNELL, Jr., Philadelphia, Pa. Filed Aug. 23, 1921. Serial No. 494,544. 2 Claims. (Cl. 274—1.)



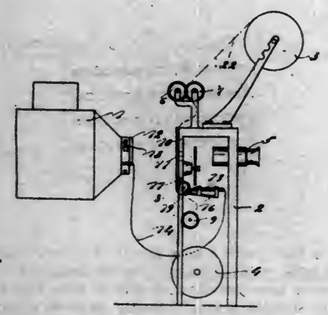
2. In a phonograph record cleaner, a brush carrier consisting of an obliquely arranged arm having one end mounted adjacent to a sound box, and its other end adapted to carry a brush head, said brush head being provided with diagonally disposed lugs between which the lower portion of said arm is engaged, and means for securing said portion to said lugs.

1,459,550. MATCH SCRATCHER. JAMES A. PATTERSON, Laurinburg, N. C. Filed July 20, 1922. Serial No. 576,319. 2 Claims. (Cl. 44—48.)



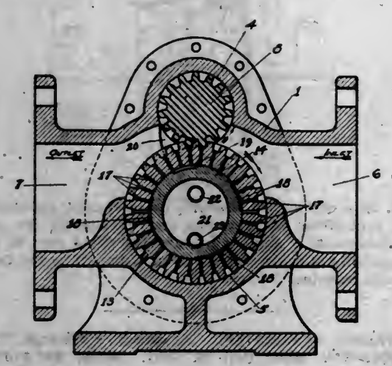
1. A match-scratching device for steering-wheels consisting of a main plate having a roughened scratching-surface, this plate being tapered toward one end and provided at one end with a thin flat extension-plate, for supporting a match box, the two longitudinal edges of said plate being provided with normally depending resilient clamping wings.

1,459,551. FIRE PROTECTOR FOR MOVING-PICTURE MACHINES. JOHAN GOTTFRID PETTERSSON, Borgholm, Sweden. Filed Oct. 25, 1921. Serial No. 510,388. 2 Claims. (Cl. 88—17.)



1. In a moving picture machine, the combination with an illuminating apparatus, a shutter therefor, mechanism for operating said shutter, and a pair of toothed feed rolls coaxially mounted to control the movement of the film, of a device connected to the shutter operating mechanism, said device comprising a holder located between said rolls and having an opening therethrough, a sleeve carried by said holder, and a spring actuated spindle mounted in said sleeve and adapted to frictionally engage the film through the opening in the holder, whereby the movement of the spindle will actuate the shutter operating mechanism.

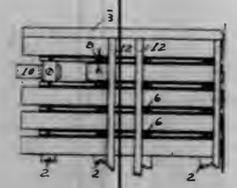
1,459,552. ROTARY PUMP. GILBERT RATHMAN, New York, N. Y., assignor to William E. Quimby, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 451,960. 7 Claims. (Cl. 103—126.)



4. A rotary gear-pump comprising, in combination, a case, two intermeshing spiral gears with drive-gear of relatively small diameter adapted to be connected directly to the shaft of a high-speed motor, means providing an

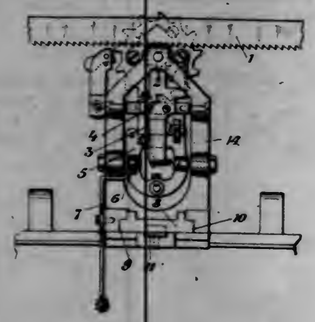
outlet to the discharge side of the pump for the fluid entrapped between the teeth of the two gears, and means for heating the larger driven gear.

1,459,553. FEED DEVICE FOR BEAN-SORTING MACHINES. ALPHONSO ROCHELEAU, Saginaw, Mich., assignor to Hart Brothers, Saginaw, Mich., a Corporation of Michigan. Filed Jan. 19, 1923. Serial No. 613,639. 2 Claims. (Cl. 130—32.)



1. In a bean sorting machine of the class described, a pair of rolls, a feed frame, bottom cross-bars on said frame, each cross-bar formed with a hole located above each pair of rolls, a longitudinally movable reciprocating trough formed with an elongated hole in the bottom thereof, said hole registering with the hole in said cross-bar, and means for imparting reciprocatory movement to said trough.

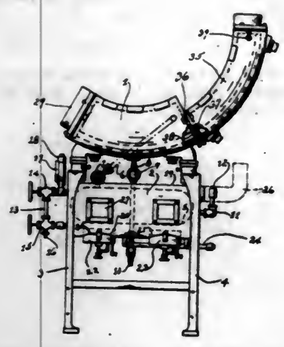
1,459,554. TYPEWRITING MACHINE. HEINRICH SCHWEITZER, Soemmerda, Germany, assignor to the Firm of Rheinische Metallwaaren- und Maschinenfabrik, Duesseldorf-Derendorf, Germany. Filed Sept. 2, 1921. Serial No. 498,038. 3 Claims. (Cl. 197—82.)



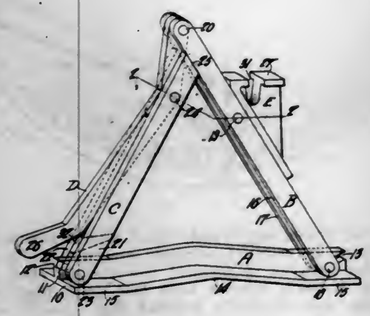
1. In a typewriting machine, an escapement mechanism for controlling the carriage feed, a support for such mechanism as a unit, and means forming a part of said support for slidably connecting said support to the frame of said machine.

1,459,555. VULCANIZER. CLARENCE A. SHALER, Waupun, Wis. Filed Oct. 26, 1921. Serial No. 510,554. 8 Claims. (Cl. 18—18.)

1. A vulcanizer for vehicle tires comprising a chambered casing having an apertured end affording communication with the interior of the casing, a detachable cap for said end conforming in cross sectional contour to that of the casing, a steam generator connected to supply steam to the interior of the chambered casing, and a detachable casing extension adapted to be substituted for the cap to form a continuation of said casing and having an aperture adapted to register with said casing aperture.



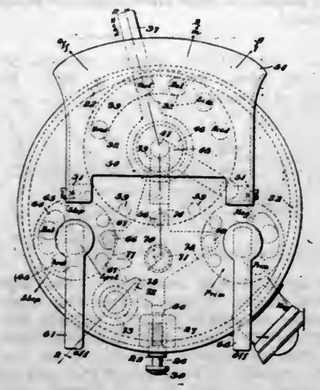
1,459,556. LIFTING APPARATUS. FRANK E. SHEPHERD, North Kingsville, Ohio. Filed June 1, 1922. Serial No. 565,252. 6 Claims. (Cl. 254—119.)



1. A lifting apparatus comprising a base, a leg pivoted to one end of said base, a second leg pivoted to the other end of said base, and the upper end thereof adapted to abut the first said leg when extended, means on one of said legs to engage an article to be lifted, and an operating lever pivoted to and connecting the other ends of both of said legs.

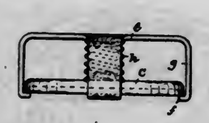
1,459,557. MULTIPLE-CONTROL SWITCH. WALTER J. SPIRO, White Plains, N. Y. Filed Sept. 16, 1920. Serial No. 410,729. 35 Claims. (Cl. 200—44.)

1. In a control switch, a frame, a fuse carrier mounted therein, a shell detachably supported upon said frame, a contact carrier secured therein, a movable conducting disk within the shell and cooperating with said carrier.



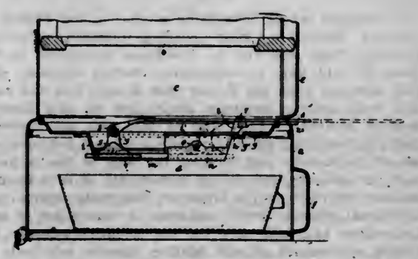
and an operating handle for said disk having a bearing in one end of the shell.

1,459,558. JAR CLOSURE. ALBERT STARK, Paterson, N. J., assignor of one-half to Harry Stark, Paterson, N. J. Filed June 6, 1922. Serial No. 566,296. 4 Claims. (Cl. 215—89.)



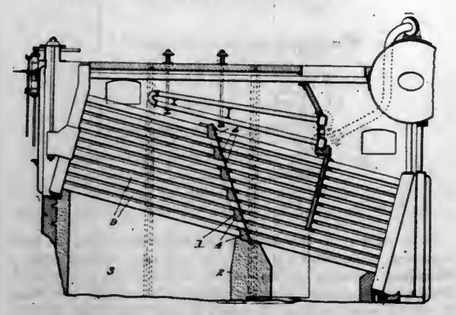
1. In a closure device for a container having spaced lateral projections around its mouth, the combination of an arched member having inward lugs to engage under said projections, a cap member contained in said arched member and seated on the lugs, and a spring interposed, and having its vertical dimension when expanded at least as great as substantially the distance, between the cap member and the top of the arched member.

1,459,559. STOVE. EARL R. STEPHENS, Dover, N. J. Filed Mar. 25, 1922. Serial No. 546,625. 6 Claims. (Cl. 126—173.)



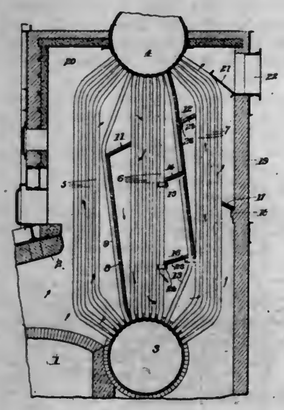
1. In combination, a supporting structure having a series of substantially parallel grate-bars forming a substantially horizontal grate surface, and a rake having a body portion arranged below the bars and slidable longitudinally thereof in said structure and also having two sets of teeth arranged in a series extending substantially at right angles to and upstanding between the several bars, the teeth in the two sets alternating with each other and those in one set having their tops approximately level with, and those in the other having their tops above, said surface.

1,459,560. BAFFLE WALL FOR HORIZONTAL WATER-TUBE BOILERS. FREDERICK C. STIMMEL, Chattanooga, Tenn., assignor to The Casey-Hedges Co., a Corporation of Ohio. Filed Apr. 5, 1922. Serial No. 549,014. 12 Claims. (Cl. 110—98.)



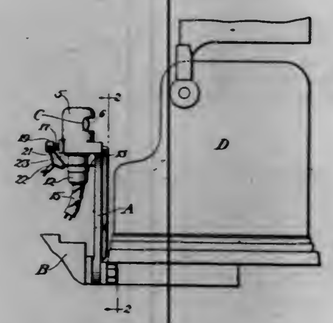
1. A baffle wall, for horizontal water tube boilers, arranged transversely of the tubes and inclined forwardly for the purpose specified, said wall being composed of interfitting tiles each having its front and rear faces inclined in a forward and upward direction but at different angles, and the base of each tile being thicker than its upper edge.

1,459,561. VERTICAL WATER-TUBE BOILER. FREDERICK C. STIMMEL, Chattanooga, Tenn., assignor to The Casey-Hedges Co., Chattanooga, Tenn., a Corporation of Ohio. Filed July 24, 1922. Serial No. 577,065. 12 Claims. (Cl. 122—336.)



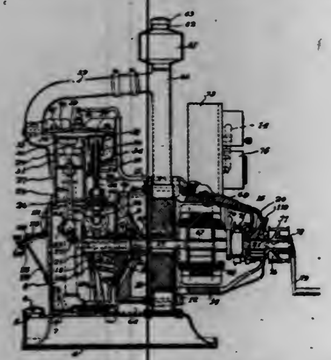
1. In a vertical water tube boiler having a central set of tubes and two other sets of tubes at opposite sides of said central set, the combination with baffle supporting means arranged between said central and other sets of tubes and having their major portions inclined in the same direction, of baffles engaging said inclined portions of said supporting means and maintained in contact therewith by their own weight.

1,459,562. LAMP LOCK. RALPH E. STOUFFER, Chicago, Ill., assignor to Yellow Cab Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 2, 1921. Serial No. 458,077. 2 Claims. (Cl. 173—356.)



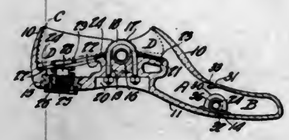
1. A device of the kind described comprising, in combination, a housing open at one end and formed with a threaded opening in one side, a lamp adapted to lie within the housing, a socket adapted to receive the lamp, a collar surrounding the socket and provided on one side with an aperture and at one end with an outturned flange arranged to abut the proximate end of the housing to limit the entry of the lamp therein, a cap secured to the socket provided with a flange in which is an opening, a threaded element screwed within the threaded opening in the housing and adapted to present its inner end within the aperture in the collar to thereby lock the socket in place, there being an opening through the set-screw, a wire passing through the openings in the set-screw and cap flange, and means sealing the wire ends to prevent any but a limited movement of the parts engaged by the wire, substantially as described.

1,459,563. ELECTRIC LIGHT AND POWER PLANT. PAUL THAMM, New York, N. Y., assignor to S. Whyte Merritt Co. Inc., New York, N. Y. Renewal of application Serial No. 375,623, filed Apr. 21, 1920, and renewed Dec. 3, 1921. This application filed Dec. 27, 1922. Serial No. 609,346. 8 Claims. (Cl. 290—1.)



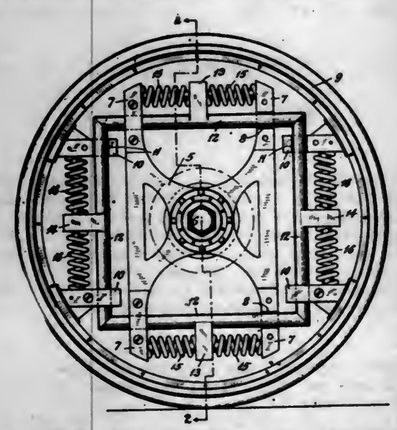
1. In an electric light and power plant, an engine provided with a crank shaft, a radiator surrounding said crank shaft having an annular water jacket, a water riser, a pipe connecting said water riser with the water jacket of the radiator, a cylinder casing having a water jacket, pipes connecting the radiator water jacket with the cylinder water jacket and the cylinder water jacket with the water riser and a generator and a fan mounted on said crank shaft, on opposite sides of said radiator, said fan adapted to draw air through the said generator and radiator.

1,459,564. ARTIFICIAL FOOT. EDWARD M. TRACY, Cleveland, Ohio. Filed Mar. 9, 1922. Serial No. 542,261. 3 Claims. (Cl. 3—7.)



1. An artificial foot comprising, a foot member provided with ears on its front end, bearing means on said foot member adapted to a leg, a resilient heel member secured to said foot member, a toe member provided with ears, a hinge pin through said ears on the foot and toe members, bushings in said ears on the toe member, and a coil spring over said pin and between said ears on said to member and one end thereof acting against said foot member and the other end thereof acting against said toe member.

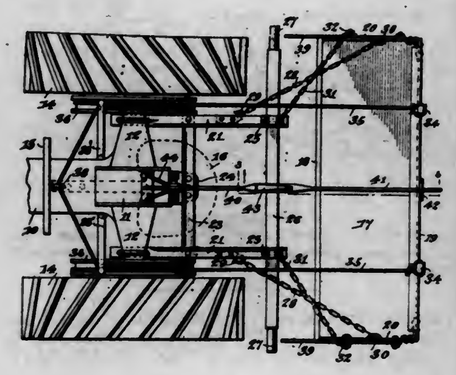
1,459,565. RESILIENT WHEEL. SIDNEY YANKAUER, Flushing, N. Y. Filed Nov. 13, 1920. Serial No. 423,887. 1 Claim. (Cl. 152—45.)



A resilient wheel comprising a rim, a hub forked in opposite directions, rigid bearing member extending inwardly from said rim in directions transverse to the forks of said hub, a rectangular floating member slidably mounted upon the forked ends of said hub and upon said rigid bearing members, projections on said floating member located in the forks of said hub and between said rigid bearing members, springs located between one set of projections and each of the legs of the forks of said hub whereby the sliding movements of said floating member relatively to the latter are yieldingly resisted and additional springs located between the other set of said projections and said rigid bearing members whereby the sliding movements of said floating member relatively to the latter are yieldingly resisted.

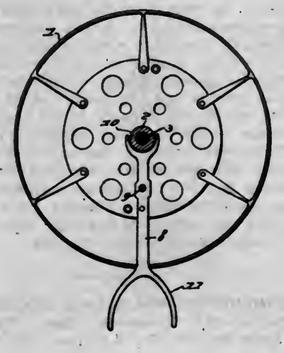
1,459,566. SCRAPER ATTACHMENT FOR TRACTORS. EDGAR J. ANDREWS, Rupert, Idaho. Filed Feb. 24, 1922. Serial No. 538,848. 18 Claims. (Cl. 37—124.)

1. The combination with a wheeled tractor, of a scraper having draft connections to the tractor, a support carried on the tractor, and a normally slack and manually controlled means operable from the wheels of the tractor for raising said scraper onto said support



and out of contact with the ground during the travel of the tractor and when not actually engaged in earth scraping operations.

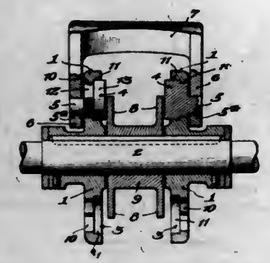
1,459,567. FISHING REEL. ARCH E. AVERY, Michigantown, Ind. Filed Sept. 21, 1921. Serial No. 502,173. 2 Claims. (Cl. 242—845.)



2. The combination with a fishing reel having a hub, of a pivotally mounted lever formed at its opposite extremities with yokes of which one straddles the hub and the other constitutes a thumb seat, and a friction member engaging the arm to prevent too free movement of the latter.

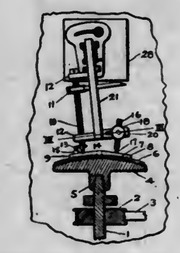
1,459,568. HAMMER ADJUSTMENT. JOSEPH KLEIS BLUM, Greenburgh, N. Y., assignor to K-B Pulveriser Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 29, 1921. Serial No. 496,778. 9 Claims. (Cl. 83—11.)

1. A hammer assembly for disintegrating rotors including a shaft, a plate on said shaft, a journal pin adjustably mounted in said plate and provided at one side with an integral bearing stud projecting therefrom, a



hammer mounted on said stud, and locking means for holding said journal pin set in its adjusted positions.

1,459,569. GRINDING MACHINE. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 5, 1919. Serial No. 335,868. 5 Claims. (Cl. 51—131.)



2. A device of the character described, including a pair of disks having interfitting polishing surfaces, cone points engaging said disks to retain them in interfitting engagement but permit of relative movement thereof, and means for positvely rotating one of the disks.

1,459,570. FORGEABLE STEEL AS AN ARTCLE OF MANUFACTURE. LINUS PORTER BURROWS, Erie, Pa.; Lonah B. Archer executrix of said L. P. Burrows, deceased. Continuation of application Serial No. 44,310, filed Aug. 7, 1915. This application filed July 3, 1920. Serial No. 393,968. 2 Claims. (Cl. 75—45.)

1. As a new article of manufacture a forging steel capable after being heated to 2200° F., and water tempered, of being used as a cutting tool and without further treatment of being forged, prepared by adding a purplish powder produced from nickel ore to a charge of metal scrap.

1,459,571. HARROW. CHARLES W. CARPER, Amma, W. Va. Filed Sept. 6, 1921. Serial No. 498,642. 2 Claims. (Cl. 55—11.)

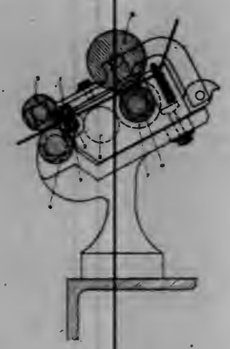
1. An agricultural implement for breaking grass-grown land having a harrow element, a rake element following the harrow element, and a spurred drum disposed between the harrow element and the rake element, the rake element consisting of a rocker having its extremi-

ties reduced to provide journals and mounted in bearings on the implement frame, and rake teeth secured to the rocker and provided with spring coils adjacent the



rocker, the rocker being provided with means for imparting angular movement to it to elevate and lower the teeth.

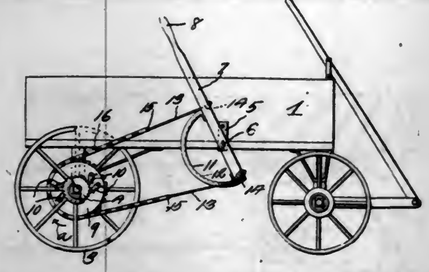
1,459,572. ARRANGEMENT FOR DRAWING FRAMES IN SPINNING MACHINES. FRANCESCO CESONI and ARTURO LIBUSSI, Vigevano, Italy. Filed July 9, 1920. Serial No. 395,064. 1 Claim. (Cl. 19—130.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A drawing frame for spinning machines, comprising a first pair of rollers for feeding the fibres, a second pair of rollers for guiding the fibres, a third pair of rollers for drawing the fibres; the second pair of rollers being intermediate the first and third pair of rollers, the diameters of the second pair of rollers in respect to the diameters of the third pair being so related that the second pair of rollers may be brought closely to the third pair of rollers and within the gap thereof, and the distance between the pressure lines of the second and third pairs of rollers is less than the normal fibre lengths of the material to be treated, and the weight of the upper roller of the second pair of rollers is such as not to hold the fibres but to permit a slippage of the fibres therethrough without tearing the same, whereby a greater drawing is obtained than heretofore possible in the standard drawing frame.

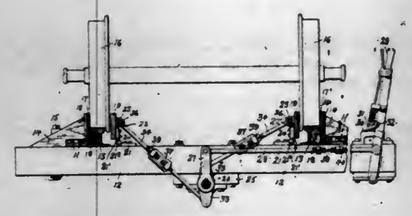
1,459,573. MANUALLY-PROPELLED WAGON. ARTHUR CLEVELAND, Detroit, Mich. Filed June 29, 1922. Serial No. 571,677. 1 Claim. (Cl. 208—36.)

The combination with a wagon comprising a body, wheels supporting said body, one of said wheels being rotatably mounted on an axle, a ratchet wheel carried by said rotatable wheel, a sprocket rotatably mounted on the axle, ratchet dog connections between the sprocket and the ratchet wheel, an operating lever pivoted to the body in the same plane as the sprocket, a segmentally shaped grooved guide member carried by the operating lever, a sprocket chain extending over the sprocket, cables connected to the ends of the sprocket chain, said cables being secured to the operating lever adjacent the ends of



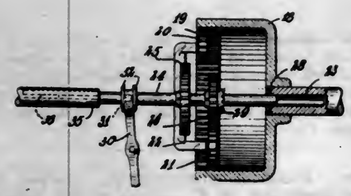
the grooved member carried thereby, said cables being in the same plane as the groove of the segmentally shaped member.

1,459,574. BRAKE DEVICE. HARRY A. COVER and ALBERT MCKINNEY, Mount Vernon, Ill. Filed Oct. 5, 1920. Serial No. 414,944. 1 Claim. (Cl. 188—62.)



An apparatus of the class described comprising stationary bearing members attached to the ties adjacent to the track rails externally thereof, a wear member carried by said stationary bearing member and adapted to receive the lateral thrust of the car wheels, a filler member between the wear member and the outer face of the rail and adapted to receive the outward thrust imparted to the rail, movable bearing members adjacent the track rails internally thereof, means for movably coupling said movable bearing members to the ties, and means for forcibly adjusting said movable bearing members toward the stationary bearing members to engage the wheels of cars passing over the track rails and force them toward the stationary members and toward the rails.

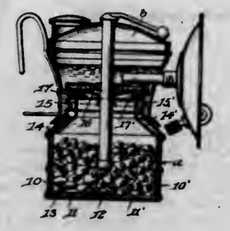
1,549,575. COMPRESSED AIR-ENGINE CONTROL DEVICE. MIKE DAJKA, Torrington, Conn. Filed Apr. 18, 1922. Serial No. 555,161. 6 Claims. (Cl. 74—58.)



6. In an engine, a drive shaft, a cup-like fly-wheel thereon, an internal gear in said fly-wheel, a pair of idler gears of relatively differing diameters engaged with said internal gear, a driven shaft alined with said drive

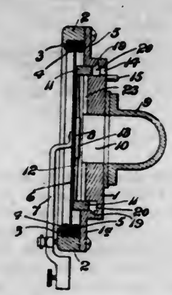
shaft, and a pair of gears of different sizes on said driven shaft adapted to selectively engage said idler gears, said driven gears being fixed to said driven shaft, and means for shifting said driven shaft axially to engage the gears thereon individually with the said idler gears, and clutch elements formed on said drive and driven shafts, for the purpose specified.

1,459,576. ATTACHMENT FOR MINERS' LAMPS. GOICHI DATE, Sublet, Wyo. Filed May 31, 1922. Serial No. 564,782. 4 Claims. (Cl. 48—57.)



1. A scraper device for the carbide chamber of acetylene gas generators comprising a frame formed of a pair of oppositely disposed sections, each including a horizontal and a vertical leg, said vertical legs conforming to the shape of the carbide chamber and said horizontal legs arranged in superposed relation and detachably connected together, and a handle element in the form of a bail pivotally connected to the upper ends of said vertical legs.

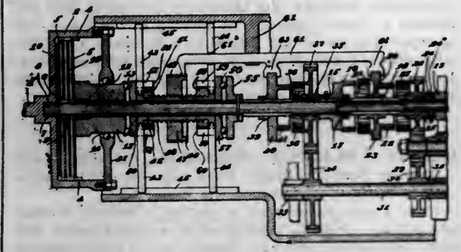
1,459,577. SOUND BOX. ALFRED A. DENNIS, Grand Rapids, Mich. Filed Mar. 20, 1922. Serial No. 545,304. 6 Claims. (Cl. 274—27.)



1. A sound box for phonographs, including the usual body, diaphragm mounted thereon and stylus connected to the center of the diaphragm, of a spring bar located under the diaphragm and across the center thereof, said bar being supported at both ends, and means for bringing the bar at its central portion into contact engagement with the diaphragm at the point of connection of the stylus thereto.

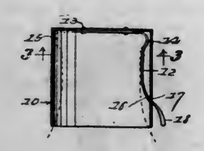
1,459,578. POWER-TRANSMISSION MECHANISM. ALBERT A. DENSMORE, Boston, Mass. Filed June 27, 1921. Serial No. 480,557. 18 Claims. (Cl. 74—59.)

1. A power transmission device having a movable clutch element, and means for moving said element, said means comprising a non-rotatable, screw-threaded member, and a nut for engaging said member, the parts being so constructed and arranged that upon rotation of the nut in one direction it moves bodily along said member



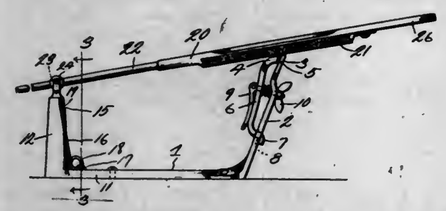
whereby to move said clutch element, and upon rotation in the opposite direction moves said member bodily whereby to move said clutch element.

1,459,579. MILK-BOTTLE CLOSURE. ELMER DINGMAN, Michigan City, Ind. Filed Mar. 8, 1921. Serial No. 450,572. 1 Claim. (Cl. 215—38.)



A central closure for milk bottles and the like consisting of a cap for receiving and housing the neck portion of the bottle, and an interior yielding tongue for engaging the lip or bead of the bottle, said retainer consisting of a flat strip of spring material having a portion secured to the inner face of the top of the cap, an offset portion embracing the rim or bead of the bottle mouth, a lower deflected portion for initially engaging the bottle mouth to impart lateral movement to the retainer, that portion of the retainer between the deflected portion and the offset portion lying against the neck of the bottle, and a terminal finger hold protruding through the opening in the side of the cap and adapted for imparting lateral movement to the retainer to permit removal of the cap.

1,459,580. SHARPENING MACHINE FOR SHEARS. OSCAR F. DOWNEY and CYRIL L. BENSON, Chestnut, Ill. Filed Sept. 14, 1922. Serial No. 588,155. 2 Claims. (Cl. 51—69.)



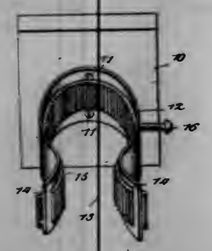
1. The combination with a shear sharpening machine comprising a base, a stone carrying frame disposed above said base, a shear clamp carried by the base and disposed beneath the frame, said frame being provided with a guide rod, of means for universally supporting said guide rod as the frame is reciprocated, said means comprising a vertically disposed sleeve carried by the base, a

rotatable vertically disposed shaft in said sleeve and provided with a plurality of horizontally disposed annular channels, a spring arm carried by the base, a transversely disposed arm carried by the spring arm and adapted to extend through an opening in the sleeve and be received in one of the channels of the shaft, a horizontally disposed and pivoted bearing block carried by the upper end of the shaft and in a bearing of which the guide rod is slidably mounted.

1,459,581. FLEXIBLE VARNISH. CHARLES DEAN DRAPER, Portland, Oreg. Filed Sept. 12, 1921. Serial No. 500,207. 4 Claims. (Cl. 134—26.)

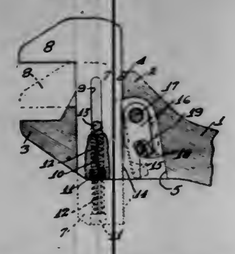
3. As a new composition of matter, a flexible varnish-like surface dressing consisting of a water proof varnish composition and raw linseed oil in approximately equal proportions.

1,459,582. BRUSH AND MOP HOLDER. ADELARD JOSEPH DUBEE, Glens Falls, N. Y. Filed June 4, 1921. Serial No. 474,876. 2 Claims. (Cl. 24—257.)



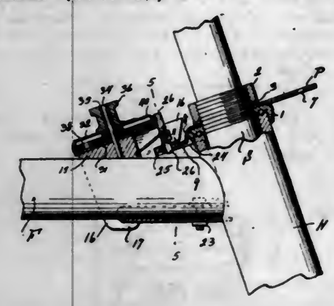
1. As an article of manufacture, a brush and broom holder comprising a metal sheath having a curved broom-handle-receiving portion and a constricted neck portion, a flexible lining strip lying interiorly of said sheath member and secured thereto near the constricted portion of said sheath member, and means for co-operation with said sheath member for adjusting said lining strip to accommodate various sizes of handles.

1,459,583. ADJUSTABLE WRENCH. OTTO E. EDSTROM, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,863. 4 Claims. (Cl. 81—138.)



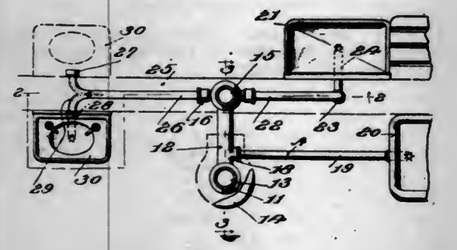
1. A wrench comprising a handle, a slotted head integrally formed thereon, a jaw integrally formed thereon, a spring controlled movable jaw, a shank integral therewith and slidably engaged in said head, a rack formed on said shank, a toothed member adjustably mounted in said head, an eccentric in said head engaged by said member, and means for rotating said eccentric to cause the same to move said toothed member into locking engagement with said rack to hold the movable jaw locked in a predetermined position.

1,459,584. LOCK MECHANISM. OTTO J. ERICSSON, Warren, Pa. Filed Mar. 11, 1922. Serial No. 542,965. 9 Claims. (Cl. 70—90.)



1. The combination with a frame of a bicycle and an associated steering fork, an arm operatively connected with the steering fork and extending laterally therefrom, said arm having a recess and an entrance slot in communication with said recess, a movable bolt, means for mounting said bolt upon the frame, said bolt being positioned to pass through the entrance slot into the recess upon turning movement of the fork in one direction, and means operated by the movement of the bolt during its entrance within the recess to hold the bolt against movement.

1,459,585. PLUMBING SYSTEM. JOSEPH A. FELTON, Atlanta, Ga. Filed June 6, 1922. Serial No. 566,220. 1 Claim. (Cl. 4—21.)

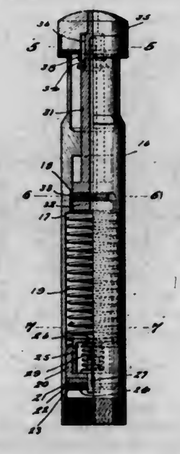


A plumbing system comprising in combination, a waste pipe, a Y having a vertical branch in alignment with said waste pipe and a branch at an angle thereto, a vent pipe communicating with the said angular branch and extending with its axis parallel with said waste pipe, a closet connection connected to the vertical branch of said Y in alignment with said waste pipe, a bell on said angular branch, a waste connection with said bell for a bath tub, a pair of bells carried by said vent pipe, a pipe connected to one of said bells having oppositely directed branches for connection of fixtures on opposite sides of a wall, a pipe connected to a second of said bells having an integral downwardly directed elbow at its end for connection of a fixture trap whereby the greatest volume of waste delivered to said waste pipe will be delivered substantially in alignment therewith.

1,459,586. SIGNAL. CHARLES LEO FITZ, Fond du Lac, Wis. Filed Jan. 20, 1923. Serial No. 613,980 2 Claims. (Cl. 116—34.)

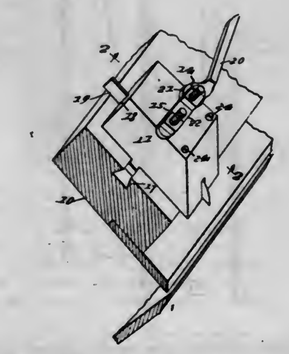
2. A tire signal comprising a body member adapted to receive the valve stem casing of a tire, a spring pressed plunger of hollow formation arranged within the body member and contacting the adjacent end of said casing,

a tubular member mounted for sliding movement within the plunger and designed to engage the adjacent end of the valve, yieldable means arranged within the plunger and operating to move the tubular member in a direction to open the valve, when the air in the tire reaches a predetermined low pressure, said tubular member having longitudinal grooves to permit the air from the tire to enter the body member subsequent to the opening of the



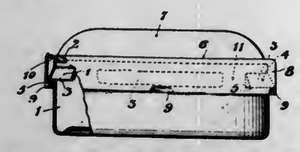
valve, an audible signal operating in the body member and including a hollow body portion having openings adjacent the upper end thereof, said member defining a whistle, operable by the passage of air therethrough, a cap carried by the signal member and normally closing the upper end of the body, and said signal being elevated by the pressure of air against the same to operate the cap from the body portion for the purpose specified.

1,459,587. VENEER-CUTTING-MACHINE SPUR BIT AND BLOCK. ROBERT H. FOARD, Cleveland, N. C. Filed July 31, 1922. Serial No. 578,696. 2 Claims. (Cl. 144—212.)



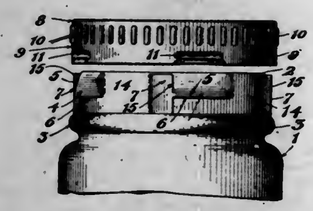
1. In a veneer cutting machine, a bed plate having a slot, bolts having heads slidable in the slot, a block on the bed plate through which the bolts extend and beyond which they project, a plate having apertures to receive the bolts, members for limiting the movement of the plate with relation to the face of the block, a cam operative in conjunction with either bolt and rotatably mounted thereon between the said plate and the said block, and a knife held between the block and bed plate by the action of the said block and its clamping means.

1,459,588. CLOSURE FOR RECEPTACLES. EDMUND HOFFMAN, Brooklyn, N. Y. Filed Mar. 13, 1920, Serial No. 365,456. Renewed May 9, 1923. 5 Claims. (Cl. 220—60.)



1. A device of the class described comprising a receptacle having a plurality of spaced-apart lugs on its outer face and adjacent its upper end, a closure cap having a continuous flange of a diameter adapting it to be spaced away from the sides of the receptacle, and having a plurality of spaced-apart inwardly projecting lugs formed by forcing inwardly portions of the flange, and a sealing gasket spaced between the upper end of the container and the cap, the lugs on the cap being so arranged with respect to the lugs on the container whereby the lugs on the cap may be caused to ride over the lugs on the container and engage beneath the same and the gasket compressed, by direct downward pressure and the cap may be removed from the container by rotary movement.

1,459,589. CLOSURE FOR RECEPTACLES. EDMUND HOFFMAN, Brooklyn, N. Y. Filed June 1, 1922. Serial No. 565,193. 8 Claims. (Cl. 215—44.)



1. A device of the class described comprising a receptacle having a plurality of spaced-apart lugs on its outer face and adjacent its upper end, a closure cap having a continuous flange and a plurality of inwardly projecting lugs on said flange adapted to be forced over the lugs on the container by direct downward pressure and engage beneath the lower ends of said lugs and a plurality of lugs on said container at right angles to the first mentioned lugs thereon.

1,459,590. STOCKING. ANTHONY JUNKER, Gloversville, N. Y. Filed Aug. 1, 1921. Serial No. 488,816. 1 Claim. (Cl. 2—23.)

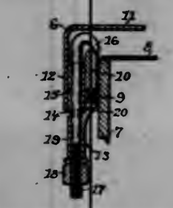
As a new article of manufacture a stocking formed from an upper and a lower section, said upper section comprising an elongated web having its upper portion rectangular and the side edges of its lower portion inwardly curved and merging into a curved extension, and said lower section formed from a web including a pair of oppositely disposed tapered portions of unequal length, one having inwardly extending inclined side edges and the other inwardly extending curved side edges terminating in a rearwardly foldable extension, said upper section having a part of its side edges seamed together and the remaining part of its side edges seamed to the edges of said lower section, said lower section seamed at opposite

sides between the tapered portions thereof to form the heel and further seamed lengthwise of that tapered por-



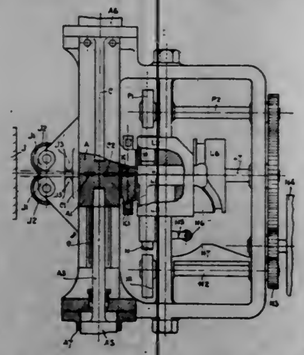
tion of smaller length to shape the stocking above the heel, the extension of the upper section inclosing the extension of the lower section.

1,459,591. ARMREST FOR BANJOS. CLINTON SHIRLY KING, Edgewood, R. I. Filed Apr. 18, 1922. Serial No. 554,985. 2 Claims. (Cl. 84—328.)



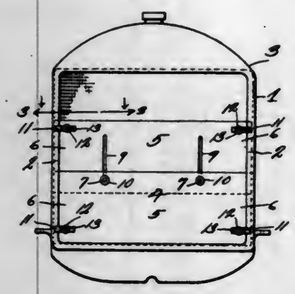
1. An arm rest for banjos consisting of a flat curved edge plate adapted to extend over the head of a banjo and having a curved lip, fastening members on the curved lip, said fastening members having means for detachably securing the arm rest to the head ring and hoop of a banjo, for the purpose as described.

1,459,592. DIE-FORGING HAMMER. JOHN LATTA and JAMES DOUGLAS LATTA, Ayr, Scotland. Filed Sept. 1, 1921. Serial No. 497,565. 5 Claims. (Cl. 78—18.)



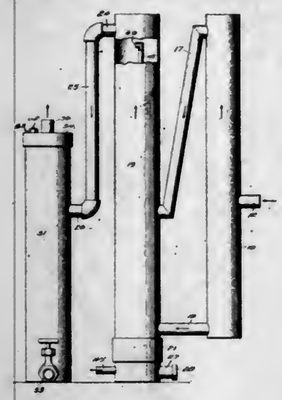
1. In a machine for automatically producing forgings and the like from bar or other stock, and having a pair of fluid pressure operated oppositely moving interconnected die heads in combination, means for delivering the stock between the die heads for guiding thereto and therefrom, for seizing, drawing it forward beyond the die heads, and for there separating the forging from the stock and delivering it, valve gear for the fluid pressure operation of the die heads and means for controlling that valve gear in the manner and for the purposes set forth.

1,459,593. RADIATOR COVER. ERICK DAVID LINDE, Burdick, Kans. Filed May 10, 1922. Serial No. 559,913. 1 Claim. (Cl. 257—132.)



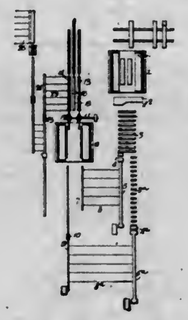
The combination with an automobile radiator comprising a casing and oppositely disposed flanges carried by said casing, of a radiator shield, said radiator shield comprising adjustably connected plates formed from flexible material whereby they may be flexed, the ends of said plates being disposed beneath the oppositely disposed flanges and clamping fingers carried by the plates and engaging the outer side of the flanges and forming means whereby the shield may be rigidly held in various vertical positions.

1,459,594. SEPARATOR. EMMETT D. MCWHORTER and AUGUSTUS A. BENNETT, Coffeyville, Kans. Filed Feb. 19, 1923. Serial No. 620,007. 7 Claims. (Cl. 183—34.)



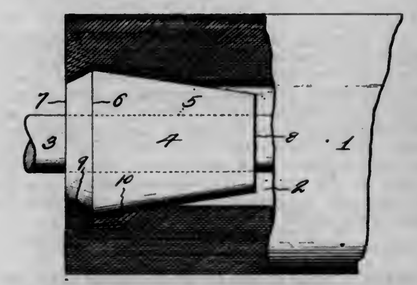
1. A separator comprising an intake element providing a separating chamber and formed with an inlet, a combined separating and water discharging device providing a separate chamber and including a float operated normally closed water discharge valve mechanism, a controlling element providing a separating chamber and including a float operated normally opened shut-off valve mechanism, means for conducting water from said intake element to the lower portion of said device, means for conducting the body to be separated from said intake element to said device, and means for conducting the body to be separated from said device to said controlling element.

1,459,595. APPARATUS FOR MAKING LAPWELDED TUBES. JAMES H. MATHESON, Reading, Pa. Filed July 14, 1921. Serial No. 484,716. 5 Claims. (Cl. 78—83.)



5. The combination in apparatus for making lap welded tubes, of a heating furnace; welding rolls at one end of the furnace; two troughs at the opposite end of the furnace arranged side by side, one trough being of a greater length than the other; a roller table having an extension; two bending dies, one die being at the end of the roller table and the other at the end of the extension; and two sets of ways over which the bent skelp is transferred to the trough at the rear of the furnace.

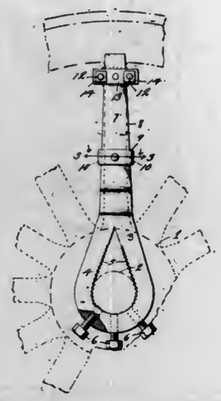
1,459,596. PAPER-ROLL PLUG. EDWARD H. MAYO, Moss Point, Miss. Filed Apr. 15, 1922. Serial No. 552,891. 1 Claim. (Cl. 206—59.)



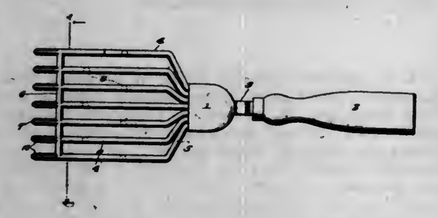
The combination with a paper roll having a cylindrical chamber therein, of a plug adapted to be driven in one end of said chamber, said plug being provided with an annular ridge adjacent its outer end of greater diameter than the chamber, said plug tapering from the ridge towards its ends, said ridge being formed by the tapering of the plug towards its ends.

1,459,597. HUB AND WHEEL HOLDING DEVICE. EDWARD P. MILLER, Atwater, Minn. Filed May 10, 1922. Serial No. 559,778. 1 Claim. (Cl. 301—111.)

The combination with a broken hub, said hub being driven by a driven axle, a wheel, of means whereby said wheel will be caused to rotate with the broken hub, said means comprising a radially extending hub holding device detachably connected to the hub, said hub holding device comprising a head having a hub receiving opening therein, a spoke engaging arm carried by the head, the inner end of the hub receiving opening being arcuate shaped, the side walls of the hub receiving opening converging outwardly towards the arm and merging together adjacent the arm, teeth carried by the converging side walls of the hub receiving opening and radially disposed hub engaging screws extending through the arcuate end of the head and adapted to engage the hub and force the same into engagement with the teeth.



1,459,598. STEM STRIPPER. FUSAKICHI MINAMI, San Francisco, Calif. Filed May 10, 1921. Serial No. 468,332. 6 Claims. (Cl. 47—37.)



1. A tool for the purpose set forth comprising a handle element, a plurality of parallel tines connected at their inner ends with said element and provided at their forward termini with laterally extending prongs formed with lengthwise cutting edges, said tines further provided intermediate their ends with laterally extending prongs having lengthwise cutting edges and arranged in parallelism with respect to said first mentioned prongs.

1,459,599. FRUIT-PICKER'S BAG. WILLIAM T. MINOR, Ashland, Oreg. Filed June 5, 1922. Serial No. 565,876. 1 Claim. (Cl. 150—2.)

The combination with the upper end of a fruit picker's sack, said sack having an open bottom closed by draw strings adapted to be tightened and hooked over hooks adjacent the upper end of the sack, a frame carried by the upper end of said sack, said frame being formed from wire and elongated, the inner side of said frame being bent to form upwardly extending hook receiving loops, U-shaped hooks adjacent the ends of the frame,

said hooks having their arms extending downwardly and upwardly and having eye connections with the ends of the frame and U-shaped brace members extending in-



wardly from one of the upwardly extending arms of the hooks and having eye connections with the inner side of the frame.

1,459,600. PROJECTILE. RICHARD T. NEWTON, New York, N. Y., assignor to Arms Products Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 4, 1918. Serial No. 256,802. 11 Claims. (Cl. 102—39.)



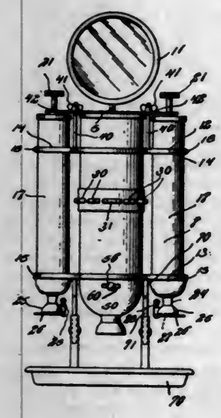
11. An explosive projectile having at its nose a firing mechanism, fall-off guard means normally engaging said firing mechanism to prevent its premature operation, means carried by said guard means for normally maintaining the latter in guard position, but adapted for automatic removal upon the insertion of the projectile into the bore of the gun from which it is fired, vanes projecting from the opposite end of the projectile, and a propelling charge adapted to be arranged within the vane area.

1,459,601. HORSE PROTECTOR. ELMER M. ORSTAD, Park River, N. Dak. Filed Apr. 14, 1922. Serial No. 552,737. 1 Claim. (Cl. 54—30.)



A protector of the character described comprising a frame including spaced side members connected at one end by a substantially semi-circular downwardly extending cross member and connected at their outer ends by a substantially semi-circular upwardly extending cross member, a screen including a partially spherical portion secured to said last named cross member for encircling the nose and mouth of a horse, said screen further including a trough like portion formed as a continuation of one side of the partially spherical portion and secured to the side members and first named cross member of the frame, and attaching rings located at the junctures of the side members with both of said cross members and adapted for connection with the bridle.

1,459,602. TOILET KIT. MARIUS ALBERT PETERSON, Marcus Hook, Pa. Filed Oct. 3, 1921. Serial No. 505,134. 1 Claim. (Cl. 248—20.)



In a toilet kit, the combination of an appropriately supported cylinder open at its upper end, bands carried by said cylinder and having side loops or eyes, supplemental cylinders removably arranged in said loops or eyes, screws carried in and extending above said supplemental cylinders and provided at their upper ends with heads, threaded rods extending upwardly from the upper band and equipped with nuts, and a plate detachably secured by the nuts in the rods and resting over the cylinders and notched to receive the screws, substantially as and for the purpose set forth.

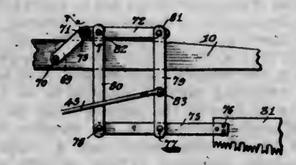
1,459,603. CINEMATOGRAPHIC AND THE LIKE PROJECTION SCREEN. CLAUDE ANTOINE PROTON and JOANNY GABRIEL BRUTÈRE, Lyon, France. Filed Dec. 17, 1921. Serial No. 523,228. 5 Claims. (Cl. 88—24.)

1. A method of manufacturing a cinematographic or the like projection screen consisting in weaving a fabric of mixed textile and metallic threads and then rolling the woven fabric to crush the metallic threads.

1,459,604. RECIPROCATING SAW. ISAAC H. SANDAGE, Sandpoint, Idaho. Filed Feb. 27, 1922. Serial No. 539,662. 1 Claim. (Cl. 143—64.)

In an apparatus of the class described, a supporting beam, a link pivoted at one end to said beam, an arm pivoted at one end to said link for swinging the same, means for adjustably locking the link to the arm, coacting radius bars swinging at one end from said beam

in spaced relation, another bar pivotally coupled to the free ends of said radius bars and adapted to be coupled



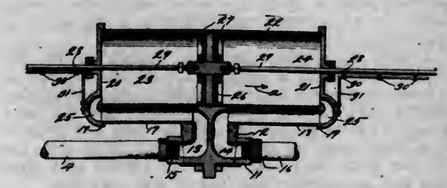
to a saw, and means attached to the other end of said link and to said radius bars for swinging the same, whereby the saw may be actuated at varying heights.

1,459,605. PHONOGRAPH REPRODUCER. ARTHUR W. SCHREINER, Brooklyn, N. Y. Filed Mar. 2, 1921, Serial No. 449,256. Renewed May 17, 1923. 2 Claims. (Cl. 274—35.)



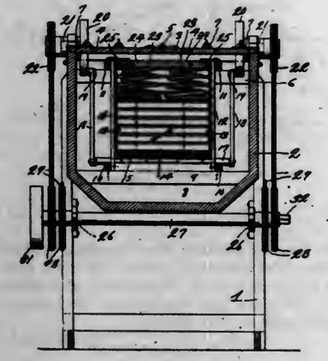
1. In a phonograph reproducer, a mechanically actuated diaphragm, a conducting tube disposed on one side of and housing that side of the said diaphragm, a supplementary conducting tube positioned opposite the said diaphragm, a perforated plate in the end of the said tube and a valving diaphragm free to move away from the said plate responsive to the outward movements of the principal diaphragm, substantially as described.

1,459,606. GREASE DISPENSER. WILLIAM FREDRICK STOHLMAN, Long Beach, Calif. Filed Jan. 31, 1922. Serial No. 532,986. 2 Claims. (Cl. 221—102.)



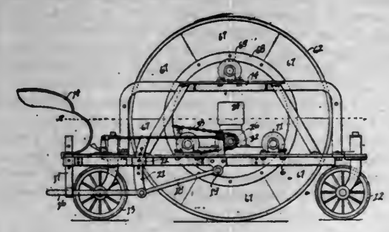
1. A dispensing device comprising a cylinder, a piston slidably mounted in said cylinder, said cylinder being mounted on a plug valve, a valve casing carried by said valve, an intake pipe connected to the valve casing and in communication with one end of the cylinder through a port extending through the valve, a discharge pipe carried by the casing and in communication with the other end of the cylinder through a port carried by the valve, and means whereby the positions of the ports in the valve may be reversed for intermittently causing intaking and discharging operations of the piston in the casing.

1,459,607. WASHING MACHINE. MARTIN WAGNER, Argusville, N. Dak. Filed Feb. 14, 1922. Serial No. 536,476. 2 Claims. (Cl. 68—37.)



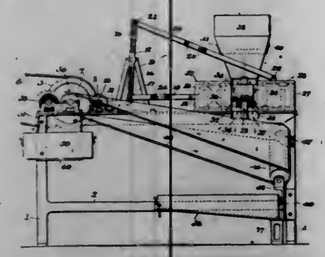
1. A washing machine comprising a main receptacle and an auxiliary receptacle for the reception of articles to be washed, said auxiliary receptacle being formed from a plurality of members, said plurality of members being connected together by pliable members, means for intermittently collapsing and extending said collapsible receptacle, a removable cover carried by the auxiliary receptacle and spiral springs carried by said auxiliary receptacle cover and extending down into the upper end of the auxiliary receptacle.

1,459,608. FARM TRACTOR. JULIUS L. ALLEN, Sacramento, Calif. Filed Feb. 15, 1922. Serial No. 536,712. 1 Claim. (Cl. 180—10.)



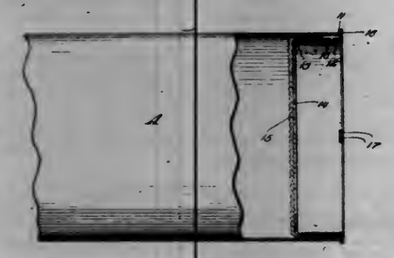
In a tractor, the combination of a frame, driving wheels mounted within said frame, the combined width of said wheels being substantially that of said frame, a sliding joint between said wheels, an auxiliary frame mounted within said wheels, flanges formed on the outer edges of said wheels, rollers adapted to contact said flanges and to support said frames thereon, power means mounted on said auxiliary frame, racks formed on the interior of said driving wheels, gears mounted on said auxiliary frame and meshing with said racks, means for transmitting power from said power means to said gears, and means for preventing foreign substances from dropping from the upper half of said wheels to the power means and gears contained within said wheels.

1,459,609. NUT CRACKER, SHELLER, AND SEPARATOR. JOHN H. AUSTIN, Albuquerque, N. Mex. Filed May 2, 1922. Serial No. 557,833. 8 Claims. (Cl. 146—3.)



1. A nut shelling machine comprising an inclined fixed jaw, movable jaws similarly inclined on each side thereof, means for reciprocating the movable jaws toward and away from the fixed jaw, and means for intermittently feeding nuts between the jaws.

1,459,610. DUST COLLECTOR. JOHN W. BOSSHART and ELMER W. MACKISON, Louisville, Ky. Filed Oct. 24, 1921. Serial No. 509,911. 1 Claim. (Cl. 183—69.)



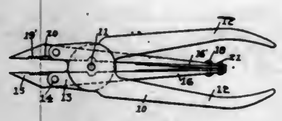
In combination with the hot air conducting pipe of a furnace, a dust removing device comprising an outer ring member formed at one edge with an outwardly extending flange engageable against the outer edge of the pipe, an inner ring member formed at one edge with an outwardly extending flange engaging said first named flange and having its other edge formed with an internally extending flange, a sheet of wire gauze soldered to said internally extending flange, a sheet of fabric stretched over said wire gauze and clamped between said ring members, and a pair of brace rods arranged in intersecting relation and having their ends secured to the outwardly flanged edge of the inner ring member.

1,459,611. COMBINED SHADE ROLLER AND CURTAIN-POLE FIXTURE. JOHN C. BOYDEN, Elmwood Place, Ohio. Filed June 3, 1922. Serial No. 565,520. 1 Claim. (Cl. 156—23.)



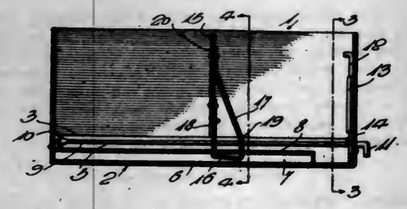
A window shade and curtain fixture comprising complemental members having their respective inner ends oppositely screw threaded, coupling elements having screw threads to receive the threaded ends of the members and to adjustably connect the same, the outer ends of said members being internally screw threaded, a curtain pole bracket for each of said members, each of said brackets having a countersunk portion to receive the ends of its respective member, a headed screw passing through each of the brackets and engaging the internal threads at the end portions of the respective members and securing the brackets to the members, said brackets each having a downwardly extending portion adapted to be clamped against the outer edge of the window frame on the rotating of the coupling element in one direction to draw the members toward each other, and a shade roller bracket adjustably connected to each of said members adjacent the point of connection of the curtain bracket.

1,459,612. PLIERS. RAY BUKER, Castle Rock, Wash. Filed Apr. 14, 1922. Serial No. 552,668. 2 Claims. (Cl. 294—36.)



1. A pair of pliers embodying pivotally connected members including handles, jaws pivotally connected to each of said members and means extending rearwardly from the jaws between the handles for yieldingly holding the latter in open position.

1,459,613. FILE HOLDER. MILTON L. CARRIER, Centralia, Wash. Filed Mar. 2, 1922. Serial No. 540,460. 4 Claims. (Cl. 129—16.)

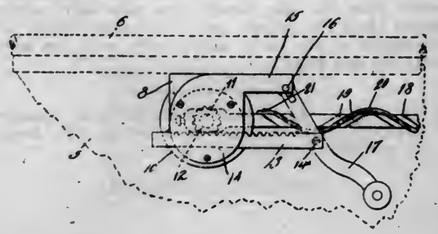


2. In a holder for cards, files and the like, a bottom composed of duplicate sections having their adjacent portions bent to form a channel and their meeting edges bent to provide a track disposed at the center of the channel.

3. In a file holder, a mounting member for the follower formed from a metal bar bent into substantial U-shape to provide spaced upstanding arms of varying lengths, the long arm being directed townrd the short arm and having its free end bent laterally and disposed in a plane with the outer face of the short arm, the follower plate being designed to rest against said outer face and the laterally bent end of said long arm.

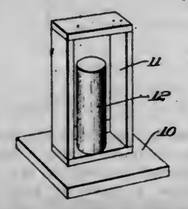
1,459,614. WINDSHIELD CLEANER. LOUIS COHEN, Johnstown, N. Y. Filed Sept. 24, 1921. Serial No. 502,942. 1 Claim. (Cl. 15—255.)

A windshield wiper including a gear casing a cover on the gear casing and having an integral laterally extending arm, a hollow exteriorly threaded extension integral with the gear casing and forming a bearing for a shaft, said hollow extension adapted to extend through an opening in a wind shield, a shaft extending through the hollow extension and carrying a pinion on one end thereof, a wiping arm secured to the opposite end of the shaft, a rack bar slidably supported within the gear casing and adapted to move laterally thereof, said rack bar being in mesh with the pinion, an operating arm having one end thereof pivotally and slidably connected to



the arm formed integral with the cover, said arm having pivotal connection with the rack bar, and a wiping element supported by the wiping arm.

1,459,615. GAME. WALTER FREDRICK COOK, Fort Atkinson, Wis. Filed Oct. 28, 1921. Serial No. 511,084. 2 Claims. (Cl. 46—59.)



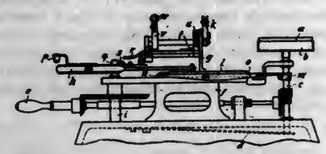
1. A game apparatus of the character described comprising a supporting base, a substantially inverted U-shaped frame secured upon said base, and an inner substantially inverted U-shaped frame located inwardly of said first named frame in spaced relation to the sides and top thereof, said inner frame being adapted to receive throw rings, both of said frame members being formed of wire and having attaching portions engaging the base, and securing members passing into the base for holding said attaching portions, both of said frame members being formed integrally from a single length of wire bent and rebent upon itself to define the frames.

1,459,616. TREATMENT OF FIBROUS CELLULOSE FOR THE PRODUCTION OF HYDRATED DERIVATIVES. CHARLES F. CROSS and EDWARD J. BEVAN, London, England, Eliza Mary Blake, executrix of said Edward J. Bevan, deceased, assignors to I. P. M. Syndicate Limited, Westminster, London, England, a British Corporation. Filed Apr. 26, 1919. Serial No. 292,043. 5 Claims. (Cl. 262—10.)

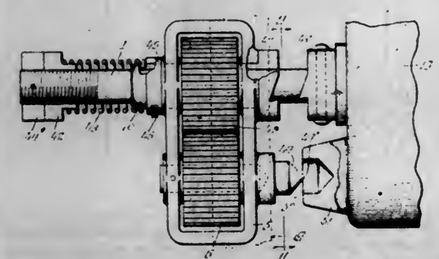
4. A process of treating fibrous cellulose which consists in subjecting the cellulose to the action of alkaline solution of strength between 6 and 11 per cent (NaOH) and then to the action of carbon bisulphide at the ordinary temperature, and finally washing the product with a strong solution of a neutral alkali salt.

1,459,617. APPARATUS FOR SHARPENING RAZORS. BERNARDUS PETRUS JACOBUS DE JONGH, Breda, Netherlands. Filed Nov. 17, 1921. Serial No. 515,840. 3 Claims. (Cl. 51—122.)

1. In an apparatus for sharpening razors, in combination, a horizontally rotatable grinding-stone, a reversible and reciprocating holder for the razor to be sharpened, means to lower said grinding-stone during the reversion of said holder, and adjustable means to limit the reversing movement of said holder, substantially as and for the purpose set forth.

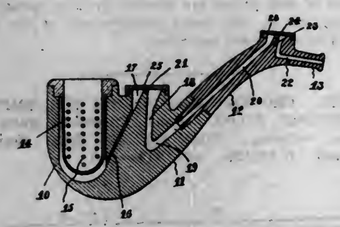


1,459,618. ENGINE STARTER. EDWARD I. DEUTSCH, Milwaukee, Wis. Filed Sept. 25, 1920. Serial No. 412,730. 23 Claims. (Cl. 74—7.)



1. An engine starter having in combination a rotatable feed screw shaft, a pinion to be moved thereby into engagement with a part of the engine to be started, a travelling nut on the feed screw shaft yieldably connected to the pinion, a clutch member fixed to the shaft, and a second clutch member connected to the pinion and engageable with the first clutch member when the pinion meshes with the engine part to establish a driving connection between the shaft and engine part from which the screw of the shaft, the nut and the yieldable connection are excluded.

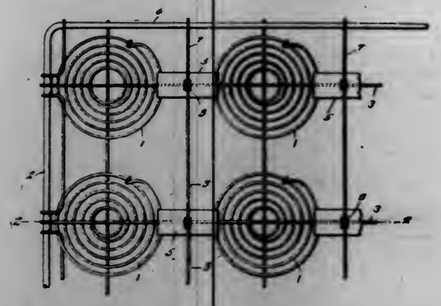
1,459,619. PIPE. JACOB E. DODD, Orange, Tex. Filed June 18, 1921. Serial No. 478,650. 1 Claim. (Cl. 131—12.)



A smoker's pipe comprising a bowl, a stem, and a mouth piece arranged at an angle with respect to the stem and bowl, and said stem and mouth piece being provided with a zig-zag smoke passage beginning at the bowl inclined upwardly therefrom and opening into a pocket, a removable cap secured to said stem and adapted to overlie the pocket, thence the passage extends downwardly but communicates at its upper portion with the pocket through the medium of a cutaway portion which is also covered by the cap, said passage from its down-

ward course is again inclined upwardly to a greater distance than its first inclination and communicates with the mouth piece through the medium of a second cutaway portion and is thence slightly inclined toward the greater inclination and downwardly directed a shorter distance than the first downward course and ending in a near horiontal course to the end of the mouth piece, a second cap being adapted to cover the last mentioned cutaway portion.

1,459,620. BEDSPRING. JOHN A. DORN, Mobile, Ala. Filed June 15, 1921. Serial No. 477,734. 1 Claim. (Cl. 5—267.)



In a bed bottom construction, the combination with upstanding coiled springs, a frame, wires secured to opposite bars of the frame and passed midway between sets of springs and having pendent loops in line with the centers of opposite springs, and plates extending at right angles to said wires and arranged under the same and having central openings receiving said pendent loops and also having end portions hooked over the adjacent portions of the upper convolutions of opposite springs and central openings in said end portions; of wires straight throughout their lengths, extending at right angles to the first-named wires and between other bars of the frame and also extending diametrically under the upper convolutions of springs in line with each other and through the pendent loops of the first-named wires and also through the openings in the end portions of alined plates, whereby without deflection of the second-named wires the first-named wires and the plates are connected together by the second-named wires and are connected to said second-named wires and the end portions of said plates are secured by said second-named wires to and on the upper convolutions of the springs engaged by said plate portions.

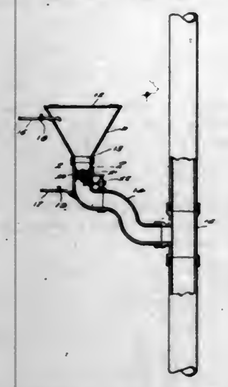
1,459,621. PROCESS AND DEVICE FOR EMPTYING BEETROOT SILOS. KARL FÖLSCHE, Halle-on-the-Saale, Germany. Filed Aug. 15, 1921. Serial No. 492,455. 6 Claims. (Cl. 214—17.)



1. The method of discharging beet-root silos having a plurality of water-supply stations and a discharge flume, which comprises discharging the roots into the flume at one end of the silo by a water jet from a nozzle attached to one of said supplies within the effective range of said jet and then transferring said nozzle to an adjacent station of the silo for continuing the discharge of the roots into the flume.

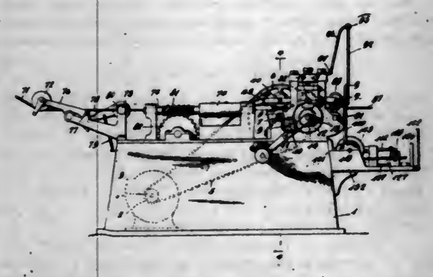
2. The combination with a beet-root silo and a flume for receiving the beets from the silo; of a conduit for water along the silo, valved leads from said conduit spaced along the conduit, and a detachable nozzle for attachment to any one of said leads to wash the beet-roots into said flume.

1,459,622. SANITARY GARBAGE CAN. ORESTE GALLUCCI, Cleveland, Ohio. Filed Dec. 12, 1921. Serial No. 521,886. 1 Claim. (Cl. 193—11.)



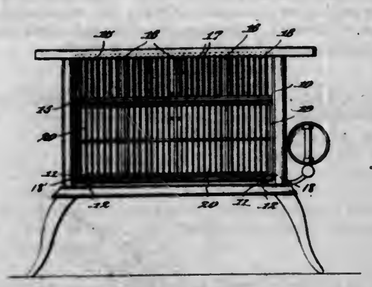
A garbage receptacle comprising the combination with a waste pipe, of a receptacle having a constricted lower portion, a pipe member connecting said lower portion with said waste pipe, a cover for said receptacle and water inlet pipes leading respectively into the receptacle and into said constricted lower portions thereof and provided with cut-off cocks, a fan casing located within said constricted lower portion, and a suction power driven fan located within said casing.

1,459,623. MACHINE FOR MAKING BALE TIES. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Filed June 14, 1922. Serial No. 568,306. 21 Claims. (Cl. 140—73.)



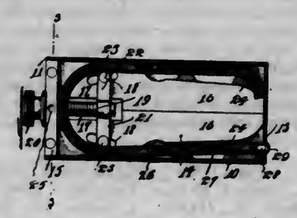
1. In a machine for forming loop ended bale ties the combination of a wire straightening means; a wire feeding means for forcibly drawing the wire through said straightening means; means to cut the wire after a predetermined length has been drawn by said feeding means; means to move the cut wire from said cutting means; means comprising a depending swinging member to forcibly move the cut wire end in position to be bent into a loop; means for looping over the bight of said cut end alongside of a bight of the main body portion of the wire; and means to rotate the looped wire end to twist said bights together, substantially as described.

1,459,624. GUARD FOR OIL RANGES. RUDOLPH PETER GREENBURG and ANDREW GREENBURG, Glastonbury, Conn. Filed Sept. 24, 1921. Serial No. 503,052. 3 Claims. (Cl. 126—202.)



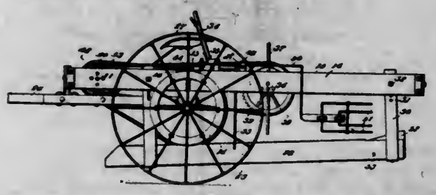
1. A guard for oil ranges comprising a frame, means for frictionally securing said frame in position on an oil range, a baffle member carried on said frame at the top thereof for preventing escape of heat from the burners through said frame, a door swingingly mounted in the lower portion of said frame, means for holding said door in closed position, and a plurality of rods mounted in said frame adjacent said member and above said door, and insulating means on said guard rails.

1,459,625. PIPE-CLEANING DEVICE. ARTHUR P. GULLIVER, Brockton, Mass. Filed June 17, 1922. Serial No. 569,003. 3 Claims. (Cl. 131—12.)



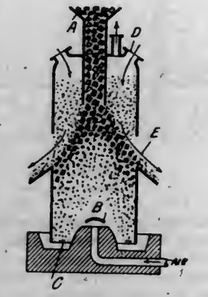
2. In combination with a casing, a member for insertion therein and comprising a plate, a plurality of cutting members on the plate and having their inner ends in pivotal engagement therewith and means movably supported on the plate and having connection with the cutting members for relatively moving the free ends thereof, said members being adapted to normally lie within the said casing with the plate adapted to constitute a cover for the casing.

1,459,626. BOLL-WEEVIL EXTERMINATOR. JAMES A. HARDEN, Ada, Okla. Filed Oct. 16, 1922. Serial No. 594,907. 2 Claims. (Cl. 43—143.)



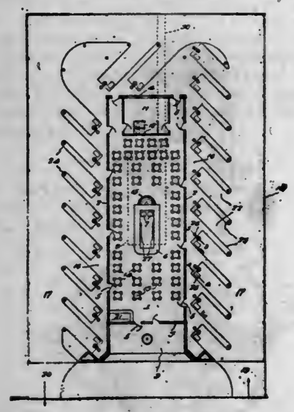
2. A machine of the character described comprising a supporting frame, an axle carried thereby, ground engaging wheels on said axle, gears on said wheels, adjustable and movable pans suspended below the frame, paddle mechanism carried by the frame and driven by one wheel, supporting brackets projecting from the sides of the frame, pinions carried by cranks journaled in said brackets and meshing with said gears, other brackets carried by the frame, and arms pivotally and slidably mounted upon said last named brackets with their forward ends connected with said cranks and with their rear ends carrying beaters designed to brush against a row of plants straddled by the machine.

1,459,627. PROCESS AND APPARATUS FOR PERFORMING THERMIC PROCESSES OF ANY KIND. ALBERT HIORTH, Asker, near Christiania, Norway. Filed Oct. 8, 1920. Serial No. 415,649. 5 Claims. (Cl. 222—5.)



5. In a shaft furnace of the producer type, an internal, substantially central, fuel chamber, a substantially concentric external chamber for the material to be heated, said chambers merging at a lower level to cause concentric contacting material supporting columns, means to separately charge said chambers, means to permit the discharge of the outer column of material at a level above the zone of highest temperature, and means to permit the discharge of the central column as ash at a point below the zone of highest temperature.

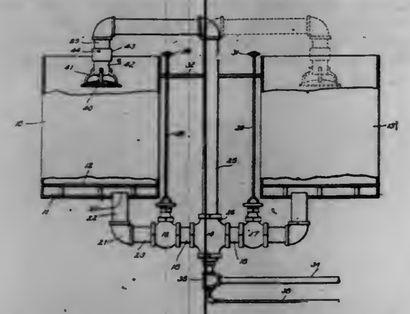
1,459,628. REFRESHMENT BOOTH FOR MOTORISTS. JOHN K. HOCKADAY, Birmingham, Ala., assignor of one-half to Robert A. Emond, Birmingham, Ala. Filed July 22, 1921. Serial No. 486,758. 1 Claim. (Cl. 20—1.)



A refreshment booth for motorists comprising a platform having edge stalls for automobiles, annunciators located at a service point on the platform, and circuit closers one in the floor of each stall and electrically

connected with a source of electric energy and with one annunciator, said circuit closer being positioned to be operated by a wheel of the automobile entering the respective stall to indicate the arrival of said automobile in the particular stall.

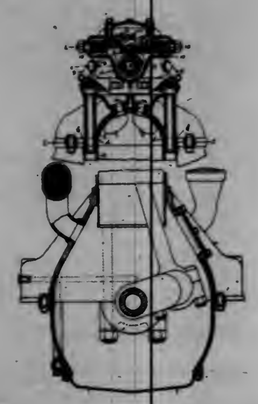
1,459,629. HEATING APPARATUS FOR LEACHES. WILLIAM HENRY JOHNS, Kingsport, Tenn. Filed Apr. 18, 1922. Serial No. 554,000. 3 Claims. (Cl. 167—4.)



1. In a device of the class described, a leach tub, having an outlet opening in the bottom thereof, a second tub having a similar opening in the bottom, means connecting the outlet openings and including a plurality of valves and their casings, a casing between the valve casings and connected therewith, a liquor outlet pipe leading from the upper portion of the casing and located between the valve casings, a steam intake pipe entering the bottom of the casing so located and discharging into the outlet pipe leading from that casing, at a point below the bottoms of the tubs, and an air intake pipe within the steam pipe and discharging at a point slightly above the discharge point of the steam.

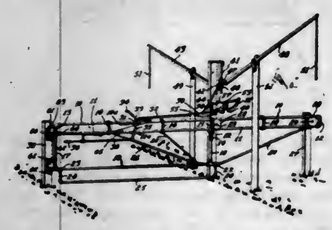
3. A distributing device for leaching apparatus, comprising a sleeve to be connected with a pipe, a tubular element connected with the sleeve, brackets extending radially from the tubular element, and a perforated plate, convex on one side, the brackets being secured to the plate near its edges and on the convex side thereof.

1,459,630. INTERNAL-COMBUSTION ENGINE. ETTORE LANZEROTTI-SPINA, Bayswater, London, England. Filed July 29, 1919. Serial No. 314,106. 6 Claims. (Cl. 123—90.)



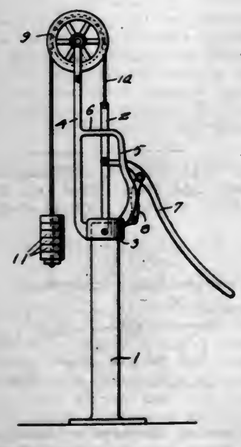
1. In an internal combustion engine the combination with the piston-swept cylinder of a substantially hemispherical head, a plurality of inlet valves and a plurality of outlet valves evenly spaced in said head with their stems substantially radial, a cam shaft, and operating mechanism connecting said valve stems with said cam shaft, said mechanism including a member for each valve moving in a plane containing the valve stem, and a second member operating the first and itself moving in a plane at right angles to the cam shaft.

1,459,631. GATE AND OPERATING MECHANISM THEREFOR. JOHN LIND, Clearwater, Idaho. Filed Dec. 12, 1921. Serial No. 521,706. 1 Claim. (Cl. 39—73.)



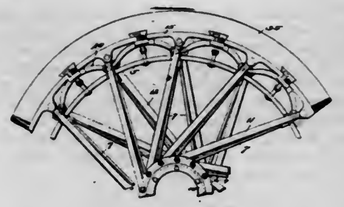
A gate structure comprising a post located at one side of a gate opening, a pair of posts located in alignment with said first named post and at the other side of the gate opening, guide rollers carried by said second named posts, a gate formed at its upper portion with upper and lower track members engaging said rollers, said track members being formed intermediate their ends with spaced parallel downwardly curved portions providing a dip facilitating completion of the movement of the gate from one position to another when the opening or closing movement has been started, and means for moving said gate longitudinally, said operating means comprising levers pivoted at opposite sides of the gate and provided with handles, and link and lever mechanism connected with said levers and with the gate.

1,459,632. OPERATING ATTACHMENT FOR LIFT PUMPS. GEORGE MALLAN, Troy, Mo. Filed May 23, 1921. Serial No. 471,671. 1 Claim. (Cl. 103—206.)



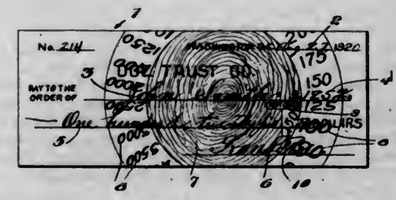
In a lift pump operating attachment, a cap applicable to the upper end of a pump barrel, a standard at one side of the pump integral with and rising vertically from said cap, a brace integral with said cap comprising an upstanding portion and a substantially horizontal portion having the first mentioned portion extending from the cap opposite to the standard and having the second mentioned portion leading to the standard, said cap and horizontal portion of the brace having registering openings adapted for passage of the pump rod therethrough, said standard extending a distance above said substantially horizontal portion, a pulley on said standard above said substantially horizontal portion having its periphery substantially intersected by a line passing through said openings, a flexible connection adapted to extend from the pump rod and over said pulley, operating means independently of said standard and brace disposed at one side of said brace and connected to the cap and adapted to be connected to said rod, and said flexible connection being free at one end and having counterbalancing weight means applied thereto, and the structure thus forming a unitary attachment.

1,459,633. CUSHION WHEEL. SEBASTIAN T. MECHLER, San Antonio, Tex., assignor, by mesne assignments, of one-half to Julius F. Mechler, San Antonio, Tex. Filed Sept. 28, 1922. Serial No. 591,134. 4 Claims. (Cl. 152—29.)



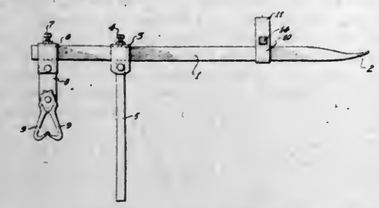
1. The combination with a wheel having a felly, a hub and spokes between the latter and the felly, of rotatable devices on opposite ends of the hub, a tire rim surrounding the wheel felly and spaced from the latter and having a solid tire tread member thereon, the tire rim being composed of a number of independently movable sections, springs interposed between the independently movable sections and the wheel felly, and equalizing levers connected to each rim section and to the rotatable devices on the hub.

1,459,634. MEANS FOR PROTECTING NEGOTIABLE INSTRUMENTS. ARTHUR E. MILLER, Sacramento, Calif. Filed Sept. 17, 1921. Serial No. 501,226. 3 Claims. (Cl. 283—9.)



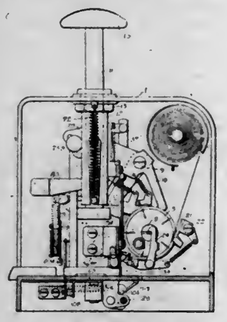
1. A negotiable instrument having an enlarged arbitrary design impressed upon its surface, and a series of numerals surrounding and associated with said design, said design and associated numerals being of greater diameter than the width of the check and so disposed that they cover at least a portion of the name of the drawee, the amount in words, the amount in figures, and the signature of the drawer of the check.

1,459,635. VALVE LIFTER. EDGAR J. MILLER, St. Joseph, Mo. Filed May 6, 1921. Serial No. 467,256. 1 Claim. (Cl. 29—86.3.)



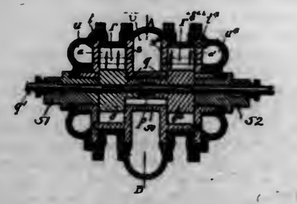
A valve lifter of the character described comprising a bar, a sleeve adjustably secured around the bar, a post pivotally connected to said sleeve to permit the rocking of the bar, a second sleeve adjustably secured around the post in advance of the first mentioned sleeve, a bracket pivotally secured to the last mentioned sleeve, and a pair of hook members carried by the bracket and being operatively associated with each other as and for the purpose specified.

1,459,636. STAMP-AFFIXING DEVICE. NICHOLAS MILLER, Hartford, Conn. Filed Sept. 23, 1918. Serial No. 255,284. 52 Claims. (Cl. 216—27.)



1. In a stamp affixing apparatus, in combination with stamp affixing means an elongated member, provided with a narrow compartment and adapted to receive moistening liquid from a reservoir; a plurality of apertures connecting an outside surface of said member with said compartment, means for holding the stamps away from said surface and provision for automatically bringing the adhesive side of the stamps in contact with said surface, when the apparatus is operated.

1,459,637. ROTARY MACHINE. MAURICE JULES POYET, Paris, France. Filed Feb. 2, 1921. Serial No. 441,863. 5 Claims. (Cl. 103—130.)



1. A rotary and reversible machine adapted for use as a pump, compressor or motor, comprising in combination,

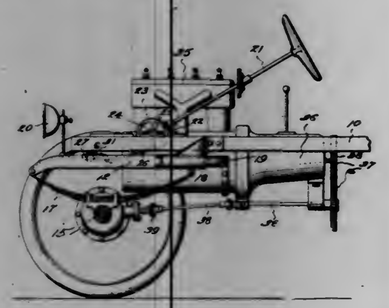
two cylinders, two cylindrical piston bodies each carrying a piston-paddle or vane and centrally arranged in a respective cylinder, two slotted rings arranged eccentrically in the said cylinders with one point on the exterior of each ring tangential to the interior circumference of the respective cylinder and a diametrically opposite point on the exterior of each ring tangential to the said central piston body, two discs arranged at the extremities of each of said slotted rings, crescent shaped ports formed in the said discs, the ports in the outer discs being disposed inversely in relation to the ports in the inner discs, a channel between the two cylinders, a circular channel at the exterior face of each of the cylinders and a central shaft upon which said piston bodies are fixedly mounted

1,459,638. ICE-CREAM SCOOP. MICHAEL P. RODOPULOS, Chicago, Ill. Filed Mar. 13, 1922. Serial No. 543,308. 4 Claims. (Cl. 107—48.)



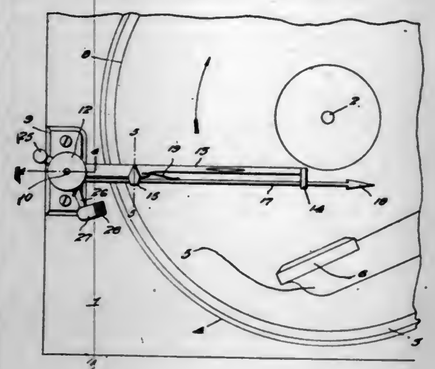
1. In an ice cream scoop or dipper, a scoop body, a handle attached thereto, a flexible cutter extending transversely of the body and movable longitudinally of the body, a lever carried by said handle, a pair of rods pivotally connected to said lever, and connected to said cutter for moving the cutter longitudinally of the body upon pivotal movement of the lever.

1,459,639. FRONT DRIVE. JOHN O. SCHWARTZ, Hope, Ind. Filed July 15, 1922. Serial No. 575,132. 1 Claim. (Cl. 180—49.)



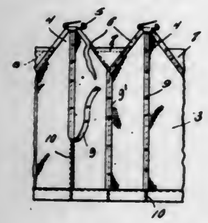
In a motor operated vehicle, a main frame, an auxiliary frame supported by the main frame for pivotal movement, a front axle, vehicle springs interposed between the auxiliary frame and said front axle, said auxiliary frame including a transverse member, a steering post, a connection between the steering post and the auxiliary frame, whereby the latter is moved to guide the vehicle, yieldable elements having adjacent ends secured to the transverse member of the auxiliary frame and their other ends secured to the main frame of the vehicle, said members being used to take up lost motion of the steering post, pulleys supported by the transverse member of the auxiliary frame and over which said yieldable elements are trained, a differential associated with the front axle, a transmission mechanism, a drive shaft connecting the said mechanism with the differential, and universal joints included in said connection.

1,459,640. STOP FOR TALKING MACHINES. ANTON SUBIC, Big Piney, Wyo. Filed June 18, 1920, Serial No. 389,919. Renewed Feb. 13, 1923. 3 Claims. (Cl. 192—122.)



1. A brake for the turntable of a talking machine which is operated by the tone arm of the machine; comprising a post, friction means for holding the post against turning, a pivotally supported spring influenced lever, a revoluble spring influenced brake on the post, latching means between the lever and brake for holding the brake from contacting with the turntable, and the outer end of the lever being in the path of engagement with the tone arm of the machine and designed by such contact to be influenced to release the brake.

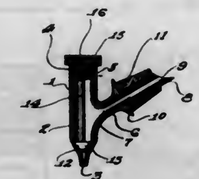
1,459,641. TROUSERS PROTECTOR. PETER TOPFNER, Detroit, Mich. Filed Nov. 9, 1920. Serial No. 422,874. 1 Claim. (Cl. 2—135.)



A protector of the character described comprising a body portion formed from sections of water proof material secured together and shaped to conform to the leg portion of a pair of trousers, an inverted V-shaped extension formed on dismetrically opposite sides of the body portion at the upper end therof and joining each other at the respective ends of their bases, safety pins carried by the apex of each of the inverted V-shaped extensions and being adapted to be secured to the coat of a wearer, V-shaped pieces securing the adjacent ends of the inverted V-shaped extensions, reinforcing means carried by the upper edges of the protector and strips covering the meeting edges of the sections.

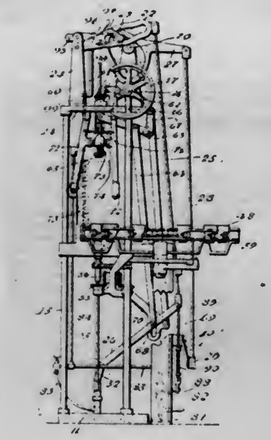
1,459,642. LIQUID DROPPER. JOHN TURNER, Jr., Rexfield, Iowa, assignor of one-half to Walter Whittle, Rexfield, Iowa. Filed July 24, 1922. Serial No. 577,089. 4 Claims. (Cl. 215—58.)

1. A liquid dropper comprising a casing forming a chamber and an outlet in communication with the chamber, a neck projecting laterally from the casing forming an inlet in communication with the chamber, a tube a continuation of the neck and in alignment with the inlet,



a stopper fitted on said tube, a valve for the outlet, a cap screw threaded into the casing and having a connection with the valve, said cap having a vent uncovered in the adjustment of the cap.

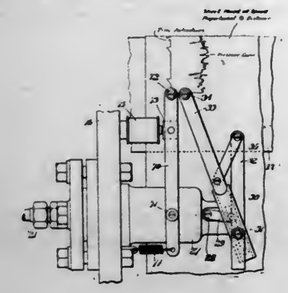
1,459,643. BOTTLE SCRUBBING AND WASHING MACHINE. CHARLES BRIGHT VAN HORN, Detroit, Mich. Filed June 24, 1919. Serial No. 306,312. 12 Claims. (Cl. 15—60.)



6. In a bottle scrubber for automatically scrubbing bottles of the same or different sizes, the combination with holding and scrubbing device for the bottles, a lever and means directly operated thereby for automatically adjusting the holding and scrubbing devices as to the diameter and height of the bottles to insure the effective operation of the devices upon the bottles.

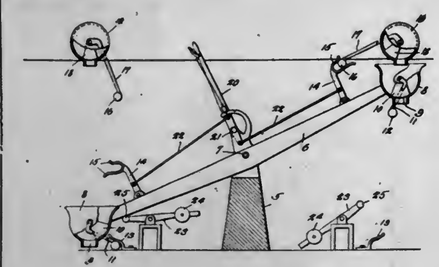
1,459,644. APPARATUS FOR MEASURING PRODUCTS OF TWO VARIABLE QUANTITIES. GEORGE WILLIAM WATSON, London, England. Filed Feb. 1, 1922. Serial No. 533,484. 7 Claims. (Cl. 234—17.)

1. A device for integrating one magnitude (such as the measure of a force) with respect to another magnitude (such as the traverse of the point of application of the force), comprising a member mounted to move proportionately to changes in each of said magnitudes, a pump driven by one of said members and provided with means



responsive to the movements of the other member to vary the output of said pump, and means for measuring said output.

1,459,645. WALKING-BEAM SYSTEM FOR PUMPING WATER. JOHN A. WILSON, Beaumont, Tex. Filed June 8, 1922. Serial No. 566,795. 1 Claim. (Cl. 253—19.)

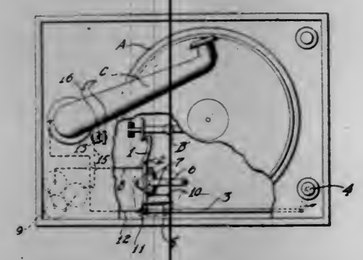


In a device of the character described, an arm pivotally supported intermediate its ends, buckets supported at the ends of the arm, valve members operating in the buckets, means for controlling the movements of the valve members to cause them to automatically discharge the contents of the buckets, pipes disposed above the buckets and having discharge openings arranged to discharge fluid into the buckets, valve members for controlling the passage of fluid through the pipes, weight controlled arms for normally holding the valves in their closed positions, pivoted controlling arms supported on the first mentioned arm, and adapted to contact with the weight controlled arms to move the valve members controlling the passage of fluid through the pipes, and means for adjusting the last mentioned arms to cause the operation of the valves in the pipes, at predetermined intervals.

1,459,646. STOP FOR TALKING MACHINES. JOHN CLIFTON WOOD, Quay, N. Mex. Filed July 11, 1921. Serial No. 483,942. 1 Claim. (Cl. 192—123.)

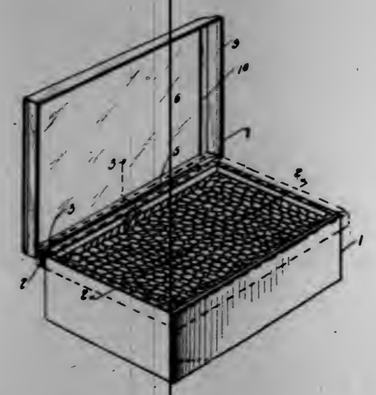
An automobile stop for talking machines, comprising a pivoted braking lever having engagement with the governor of the machine, a spring engaging the lever and normally tending to thrust the latter into braking position, a spring latch disposed in the plane of the lever with one end supporting the latter against the thrust of the spring, an electro-magnetic device for flexing the spring latch whereby the end thereof is disengaged from the lever to

release the same, said lever when in braking position serving to prevent return of the latch member to lever-restraining position, means for causing operation of said electro magnetic device at a predetermined position of the tone arm of the machine, means associated with said



lever for effecting release of the spring latch, and means for moving the lever clear of the latch member to enable the latter to return to lever restraining position upon the resetting of the parts.

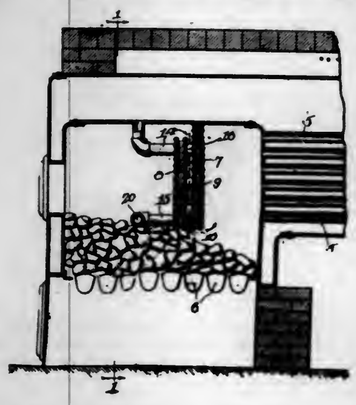
1,459,647. DISPLAY COVER. WALTER S. WOOD, Charleston, W. Va. Filed Sept. 14, 1922. Serial No. 588,248. 3 Claims. (Cl. 217—54.)



1. A display cover comprising a spring clasp, a hinge member consisting of a folded sheet metal strip having one of the folds attached to an element of the spring catch, and a cover hingedly connected to the other fold of the hinge member.

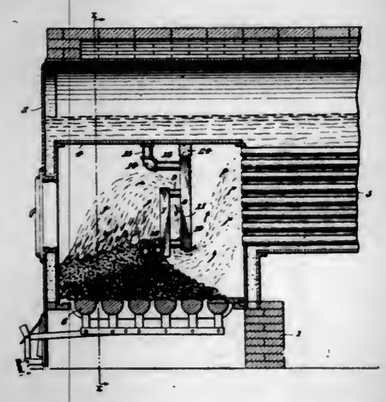
1,459,648. STEAM BOILER. JOHN S. ANDREWS, Gary, Ind. Filed Feb. 12, 1917, Serial No. 147,988. Renewed Nov. 17, 1922. 14 Claims. (Cl. 122—61.)

3. A furnace structure having a boiler, fire box, and ash pit, a depending baffle wall structure dividing the fire-box into a front firing chamber and a rear combustion chamber and extending downwardly to the normal top level of the fuel, a grate underneath the fire box, said baffle wall including a hollow rear member extended to the top of and across the fire box, a hollow front member spaced from the rear member and from the top of the fire box to form a down flue therebetween, tubular connections providing direct fluid connection between the in-



terior of said front and rear members, and means providing a fluid connection between one of said members and the interior of the boiler.

1,459,649. COMBUSTION APPARATUS. JOHN S. ANDREWS, Gary, Ind. Filed July 1, 1918, Serial No. 242,758. Renewed Nov. 17, 1922. 8 Claims. (Cl. 122—61.)

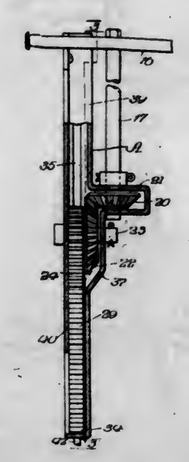


1. A furnace structure having a boiler, fire box, and ash pit, a depending baffle wall structure dividing the fire box into a front firing chamber and a rear combustion chamber and extending downwardly to the normal top level of the fuel, a grate underneath the fire box, said baffle wall including a hollow front wall member and a hollow rear wall member directly interiorly connected together and spaced from each other to form a down draft passageway therebetween and separate means interiorly connecting each of said hollow wall members directly with the interior of the boiler.

1,459,650. HAND BRAKE FOR RAILWAY CARS. RICHARD WEBB BURNETT, Chicago, Ill. Filed July 21, 1919. Serial No. 312,173. 4 Claims. (Cl. 74—110.)

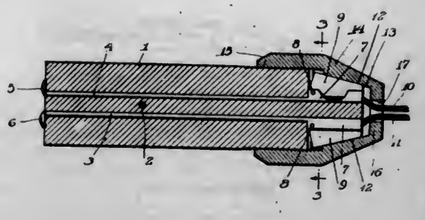
1. In a hand brake for railway cars, the combination with the brake rigging proper; of a bracket adapted to be

secured to a portion of the car; a rack slidably mounted on said bracket, said rack being operatively connected with said brake rigging proper, said rack having teeth extending at an angle to the line of movement of the



rack; an eccentrically mounted gear cooperating with said rack; and manually operable means for effecting rotation of said gear, including a shaft extending parallel to said line of movement.

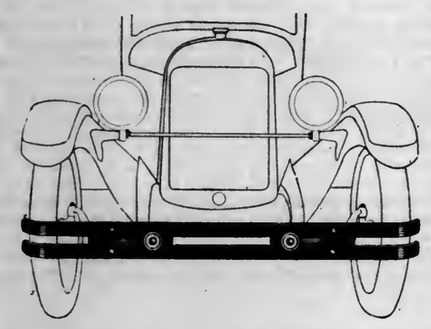
1,459,651. HEADLIGHT PLUG. OSCAR LEMONT CARR, Baton Rouge, La. Filed Oct. 24, 1921. Serial No. 510,032. 1 Claim. (Cl. 173—361.)



A plug of the character described comprising an insulated body having contact bars therein with terminal contacts thereon, said bars further being provided with clips at their inner ends opening in opposite directions, wedge blocks pivoted in the clips and having their outer faces beveled, and a ferrule having threaded engagement with the plug and provided with an inner frusto-conical wall moving in engagement with the beveled edges of the blocks, substantially as described.

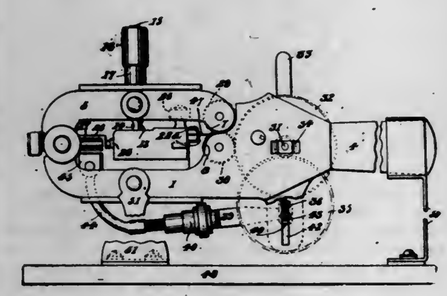
1,459,652. SHOCK-ABSORBING FENDER. WILLIAM G. COX, Cleveland, Ohio. Filed Mar. 5, 1923. Serial No. 622,757. 10 Claims. (Cl. 293—55.)

1. A shock-absorbing fender for a motor vehicle, comprising a plurality of parallel impact bars, spaced yokes having forwardly-projected extremities extending horizontally in engagement with the said bars, and



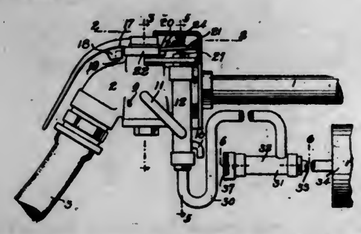
means connecting the opposite extremities of each yoke to both said bars.

1,459,653. RAZOR-BLADE-SHARPENING MACHINE. TONY CZELUSNIAK and LEO CHODUBSKI, Oswego, N. Y. Filed Sept. 22, 1921. Serial No. 502,486. 6 Claims. (Cl. 51—84.)



1. A razor sharpening device of the class described including a frame formed of separable sections, a sharpening roller carried by each section, a blade support reciprocably mounted between the sections, means for adjustably holding the separable sections in closed position, said means including a tensioned ratchet rod carried by one section and a keeper carried by the other section to be engaged by the ratchet rod.

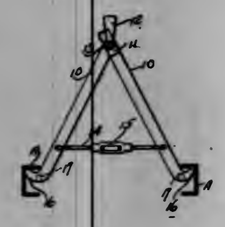
1,459,654. ANGLE COCK. EDWARD P. CLAUSS, Lyons, N. Y. Filed May 7, 1921. Serial No. 467,533. 9 Claims. (Cl. 303—36.)



1. In an air brake system for railway cars an angle cock, a lock for locking the same open, pneumatic means for unlocking said lock and a manually actuated member for causing said pneumatic means to function.

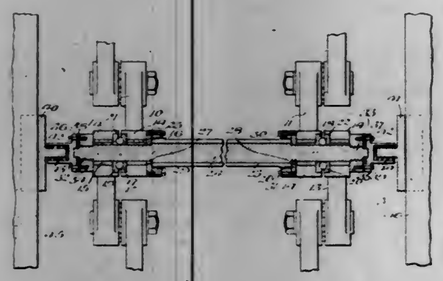
9. In an air brake system for cars, an angle cock, means for locking the angle cock closed, said means including a movable locking member, pneumatic means for shifting said movable locking member to an unlocked position, said pneumatic means being connected with the brake cylinder of said car and manually controlled mechanism controlling the passage of air from said brake cylinder, said mechanism comprising a tubular member connected at one end with the pneumatic actuating means, a piston in the tubular member normally closing said tubular member, a spring acting as a piston for normally holding the same in a given position and a manually actuated lever for holding said piston in a given position whereby air cannot enter the pneumatically actuated means, said lever being movable manually to the position out of the way of said piston whereby the air from said brake cylinder will move the piston against the action of said spring and will then pass to said pneumatically actuated means for actuating the same.

1,459,655. LIFTING DEVICE. FRED G. CLINE, Neosho, Mo. Filed Dec. 21, 1921. Serial No. 523,954. 1 Claim. (Cl. 294—82.)



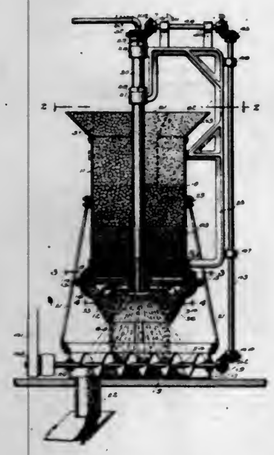
A lifting device of the class described including a pair of elements pivotally connected at their upper ends, and means intermediate its ends to spread the lower ends of said elements, said elements having at the lower terminals hooks at the outer sides in the planes of said members and also having lateral hooks at a side of the members.

1,459,656. LAZY TONGS. JOSEPH G. CORNELL, Brooklyn, N. Y. Filed June 28, 1922. Serial No. 571,402. 8 Claims. (Cl. 74—5.)



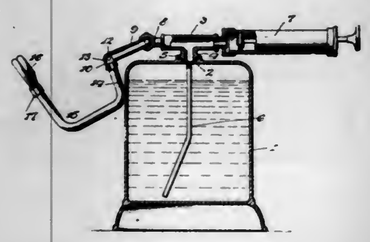
1. In a lazy tongs system, two sets of bars, one pair of each set being pivoted at their centers to a common shaft, bearings interposed between the bars of the different sets, and means mounted on the shaft for forcing the bars toward one another to compensate for wear.

1,459,657. MIXER. THOMAS G. DEMPSEY, New York, N. Y. Filed Aug. 7, 1922. Serial No. 580,199. 5 Claims. (Cl. 83—73.)



1. A concrete mixer, comprising a casing, means for feeding the solid ingredients into the casing in the desired proportions, a hollow vertical shaft depending into the container, a mixing wheel fixed to the lower end of the vertical shaft for giving the ingredients a helical movement to mix them, adjustable means mounted on the mixing wheel to prevent the ingredients clogging the casing, and means for supplying to the ingredients after they have been mixed, a spray of water.

1,459,658. TORCH. CLARENCE C. C. EGGERS, Hooper, Nebr. Filed Jan. 21, 1922. Serial No. 530,867. 4 Claims. (Cl. 158—32.)

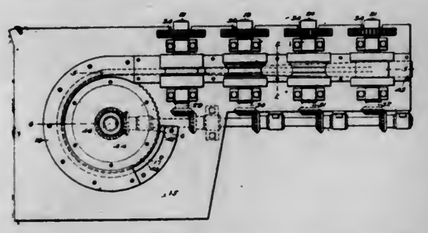


4. A torch comprising a tank, a coupling detachably fitted to the top of the tank, a burner tube having a member swiveled to one side of said coupling, a valve mounted in said member, the burner tube having a U-shaped portion normally depending from said valve, a burner coil forming the outer terminal of said U-shaped portion, and an air pump disposed above the tank and carried by said coupling at that side of the same opposite the burner tube.

1,459,659. ELECTROLYTE FOR STORAGE BATTERIES. HOWARD ELLIS, PEARLY S. HART, and WILLIAM G. NUNNELLY, New Florence, Mo. Filed Nov. 28, 1922. Serial No. 603,855. 1 Claim. (Cl. 204—29.)

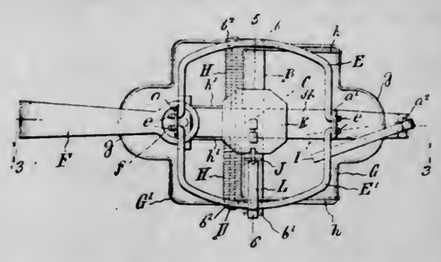
An electrolyte bath for storage batteries composed substantially of 33⅓% of electrolyte and 66⅔% of oil.

1,459,660. MACHINE FOR MAKING RETAINING RINGS FOR RECEPTACLE CLOSURES. ABRAM VAN AKEN FELTEN, Danbury, Conn., assignor to The New England Metal Barrel Corporation, Danbury, Conn., a Corporation of Connecticut. Filed Mar. 9, 1922. Serial No. 542,501. 11 Claims. (Cl. 153—8.)



1. In a machine for making retaining rings for receptacle closures, means for bending a strip of material to form a web portion and angularly disposed flanges, and means for further bending said strip to form a ring with the web portion of the strip disposed in a plane transecting the axis of said ring.

1,459,661. ANIMAL TRAP. JOSEPH D. GRAVOLET and ADAM ANSARDI, Phoenix, La. Filed Oct. 7, 1922. Serial No. 592,995. 2 Claims. (Cl. 43—88.)



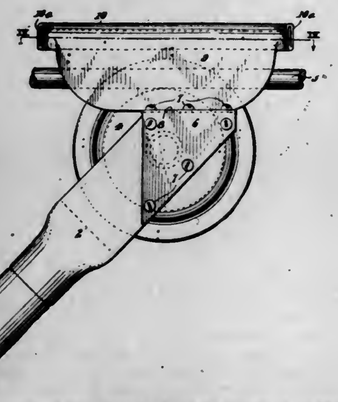
2. An animal trap comprising a main frame, a pair of gripping jaws pivoted thereto, a U spring normally swinging said jaws to the gripping position, a pair of body jaws pivoted on said frame transversely to said gripping jaws, said body jaws being each provided with D-shaped looped central portions, one of said body jaws being shorter than the other and being loosely pivoted on said frame and having its looped portion projecting between the members of said U spring, and the other body jaw being arranged to swing over said gripping jaws when said gripping jaws are in the sprung position, but to be held down by said gripping jaws when the trap is set, coil springs for swinging said last mentioned body jaw to the sprung position, a latch for holding said gripping jaws in the open or set position, and a pivoted platform adapted to be tilted by the animal for releasing said latch and said gripping jaws, and thereby releasing the last mentioned body jaw.

1,459,662. LUBRICATING SYSTEM. CHARLES W. MANZEL, Buffalo, N. Y., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 18, 1920. Serial No. 404,300. 17 Claims. (Cl. 184—105.)

14. The combination with a bearing nipple of a pump for supplying lubricant under pressure thereto, said pump having a barrel provided with a rigid discharge conduit, means connected with the free end of said discharge conduit for loosely receiving said bearing nipple and making a sealed joint therewith when manual pressure is exerted on said pump toward said bearing nipple from any one of a plurality of different directions, and means actuated by such pressure for exerting pressure on the lubricant.

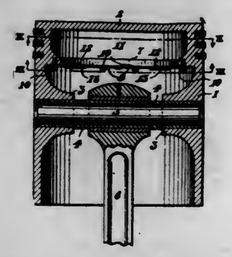


1,459,663. TROLLEY-WHEEL GUARD. JOHN TRUNKO, Arden, W. Va. Filed Mar. 12, 1923. Serial No. 624,411. 2 Claims. (Cl. 191—73.)



1. In a trolley wheel guard, a pole having a trolley wheel journaled in the head thereof, a guard plate secured to each side of the trolley pole head and overlying the end bearing for the trolley wheel, upwardly directed resilient arms carried by the guard plate, the upper ends of the resilient plates being rolled upon themselves to provide wheel guards adapted for resilient engagement upwardly of the trolley wheel.

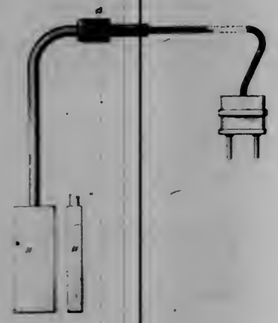
1,459,664. PISTON FOR INTERNAL-COMBUSTION ENGINES. JOSEPH WOLK, Bridgeport, Conn. Filed June 8, 1922. Serial No. 566,765. 2 Claims. (Cl. 74—108.)



1. In a piston of the type described embodying a side skirt and an upper head, an inwardly directed annular flange carried by the inner face of the side

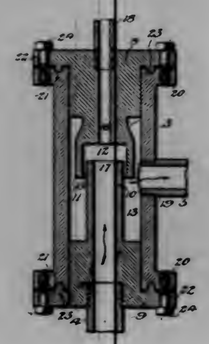
skirt, a shield secured to said flange forming an air space between said flange and piston head, said shield being formed of semi-circular sections removably secured to said flange with the adjacent edges thereof overlapping.

1,459,665. ELECTRIC IMMERSION LIQUID HEATER. SIEGFRIED ABEL, Berlin, Germany. Filed Jan. 21, 1922. Serial No. 530,908. 1 Claim. (Cl. 219—41.)



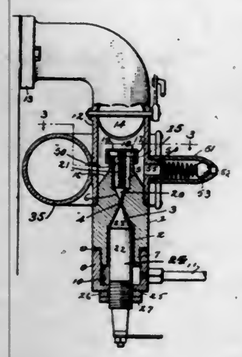
An immersion heater for electrically heating liquids and intended to be used on supply circuits of approximately 110 and 220 volts comprising insulating support, a heating resistance mounted on said insulating support and dimensioned for a voltage of approximately 150 volts, large masses of metal in the close proximity of the said heating resistance which metal is a good conductor of heat, means capable of electrically insulating the said large masses of metal from the heating resistance and of allowing the transfer of heat from the heating resistance to the said large masses of metal, and a casing the interior surface of which is in contact with the said masses of metal in order to receive the heat therefrom and transfer it to the liquid to be heated.

1,459,666. PRESSURE-CONTROLLING DEVICE. VICTOR LESLIE ADAMS, Waco, Tex. Filed June 7, 1922. Serial No. 566,674. 6 Claims. (Cl. 62—115.)



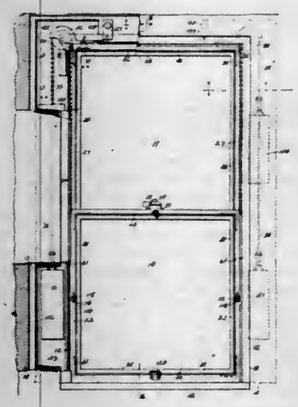
1. In a pressure controlling device of the class described, an outer casing open at both ends, a nozzled plug for each end, the inner ends of said nozzle plugs overlapping each other and forming a chamber, and a gage connected to said chamber.

1,459,667. VAPORIZER. VIRGIL C. ANDERSON, Seattle, Wash., assignor to Federal Generator Association, Seattle, Wash. Filed May 19, 1922, Serial No. 562,184. Renewed May 11, 1923. 10 Claims. (Cl. 48—103.)



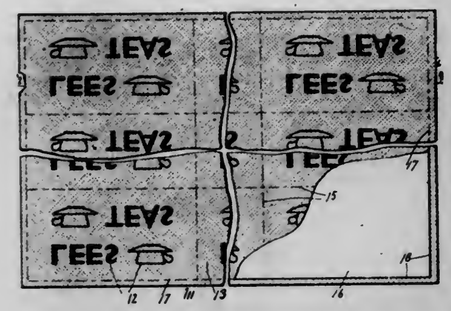
6. A vaporizer for internal combustion engines, comprising a body formed with a fuel channel, a heated element definining with the body a restricted fuel space leading to the channel, said heated element being operative to regulate the flow of fuel from said restricted fuel space to the channel, and normally closed means adapted to open under engine suction to control the flow from said channel.

1,459,668. WINDOW. SIDNEY U. BARR, Brooklyn, N. Y. Filed June 3, 1920. Serial No. 386,309. 10 Claims. (Cl. 189—76.)



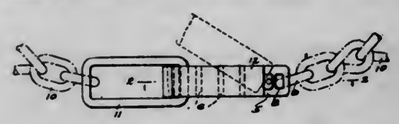
1. In a window, a window frame and a lower sash, the window frame having a sill provided with a raised member, the said frame having stop beads and parting strips forming guideways for the sash to slide in, the said stop beads being provided with inclines, the said sash having stiles and a bottom rail of inverted channel shape adapted to straddle the said raised member, the stiles being adapted to engage the said inclines to press the bottom rail into engagement with the raised member and to press the stiles against the parting strips to form a tight joint between the said contacting parts.

1,459,669. PRINTING PLATE AND METHOD OF MAKING THE SAME. FREDERICK H. BEROLD, Cincinnati, Ohio. Filed Nov. 19, 1919. Serial No. 339,040. 3 Claims. (Cl. 101—395.)



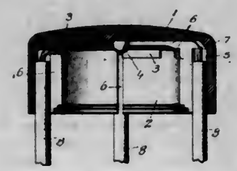
1. A thin flexible sheet printing plate for relief printing having on its printing face a plurality of duplications of the same subject-matter portions for simultaneous printing a plurality of the same article, and distancing portions of the character described to distance the inking rollers and paper from the bottoms of the spaces between said duplications of subject-matter portions, said distancing portions extending continuously between said duplications of said subject-matter portions for continuously supporting the inking rollers and the sheets of paper being printed between said subject-matter portions.

1,459,670. ADJUSTABLE CHAIN HOOK. OSCAR EDWARD BROWN, Buffalo, N. Y. Filed Aug. 29, 1922. Serial No. 585,107. 5 Claims. (Cl. 24—241.)



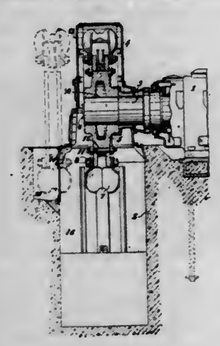
1. In an adjustable chain hook, in combination, a pair of co-acting relatively movable members constituting respectively the hook paper and a closure therefor, and spring-latch means for such members including a recess in one of the members, a projection on the other member receivable in the recess, a spring on such recessed member, and a detent carried by the spring for automatically engaging the projection when positioned in the recess thereupon positively to lock the projection against leaving the recess until the spring is thereafter manually re adjusted.

1,459,671. DISTRIBUTOR CAP OR THE LIKE. WILLIAM S. HARLEY, Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1919. Serial No. 292,731. 8 Claims. (Cl. 200—19.)



1. A distributor cap or the like comprising an imperforate inverted cup shaped member having a socket formed integrally therewith extending upwardly from the base thereof, and an insulated conductor positioned within said socket.

1,459,672. RUNNER CONSTRUCTION FOR PELTON WHEELS. ELY C. HUTCHINSON, Oakland, Calif., assignor to Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed Apr. 17, 1922. Serial No. 553,525. 6 Claims. (Cl. 253—136.)



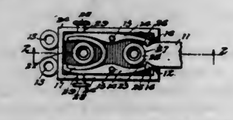
1. A water wheel comprising a two part structure consisting of a center for securing to a shaft, and a bucket carrying ring removably mounted on the periphery thereof, means for detachably securing the parts together, and a plurality of buckets carried by the ring, said ring mounting the buckets adapted for removal with the buckets as a unit from the center.

1,459,673. CLASP. LOUIS JABNER, Jersey City, N. J. Filed Sept. 26, 1922. Serial No. 590,669. 2 Claims. (Cl. 24—230.)



1. A clasp comprising a casing having an opening in one end, a substantially U-shaped spring mounted in the closed end of the casing and having its arms extending towards the open end, a pair of fingers pivotally mounted in the casing having their opposite innermost ends disposed within the arms of the spring, a member having a head adapted to be engaged by the innermost ends of the fingers to lock the clasp upon insertion of the head therebetween, and means extending through the opposite walls of the casing bearing on the outermost ends of the fingers for coupling the clasp.

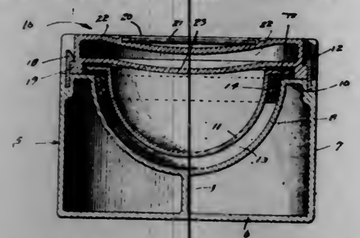
1,459,674. CLASP. LOUIS JABNER, Jersey City, N. J. Filed Sept. 26, 1922. Serial No. 590,670. 3 Claims. (Cl. 24—230.)



1. A clasp of the character described comprising a casing having an opening in one end, a pair of levers pivotally mounted therein having complementary clamping jaws at one extremity adjacent the opening in the

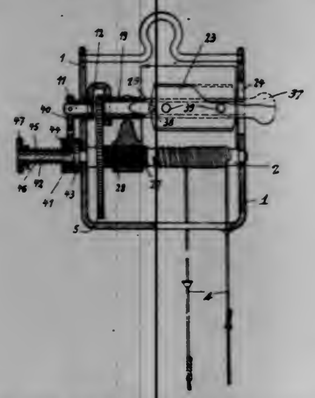
end of the casing, means normally urging said jaws together, a coupling member adapted to be engaged by the jaws upon insertion in the open end of the casing, and a member fixed in the casing between the levers and forming an abutment point for the coupling member and jaws, at which point said jaws and coupling member will interchange to lock the clasp.

1,459,675. HOT-SLAG RECEPTACLE. EDWARD E. JAMES, San Francisco, Calif. Filed Nov. 7, 1921. Serial No. 513,491. 1 Claim. (Cl. 220—9.)



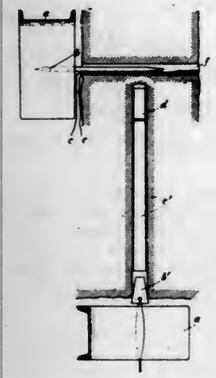
A receptacle of the class described comprising a hollow body, a false bottom in said body comprising a basin shaped closure for the top of the bottom, a basin shaped slag container adapted to be supported above said false bottom with a vacuum space therebetween, a cap for closing the top of the receptacle and having a vacuum space adapted to overlie the top of the slag container when the cap is in place on the receptacle, said cap having notches at spaced intervals in its periphery and rabbeted ledges in the inside of said notches, and catches carried adjacent the edge of the body in the top thereof adapted to engage said rabbeted ledges for holding the cap in place, the top surface of said cap being countersunk and a handle in said countersunk for carrying the receptacle, the handle adapted to lie within the countersunk below the surface of the cap when not in use.

1,459,676. GRINDING OR SHARPENING DEVICE FOR RAZOR BLADES. FRIEDRICH KIERSTEN, Celle in Hanover, Germany. Filed Aug. 11, 1920. Serial No. 402,931. 1 Claim. (Cl. 51—41.)



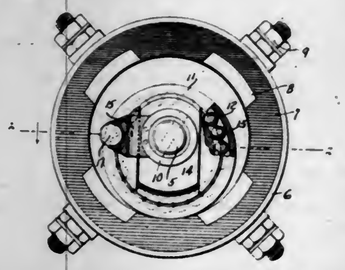
A razor blade sharpener, comprising a frame, a shaft in the frame, a gear on the shaft, a pair of hollow shafts mounted for axial movement in the frame, pinions on the hollow shafts meshing with said gear for rotating hollow shafts, means for turning said first shaft in opposite directions, said first shaft having a threaded portion, a sleeve mounted on the threaded portion and having arms engaging said hollow shafts, said sleeve being adapted to be reciprocated axially upon the turning of the first shaft in opposite directions to shift the hollow shafts during rotation, grinding rollers carried by the hollow shafts, and a blade holder, arranged between said rollers, substantially as described.

1,459,677. METHOD OF AND MEANS FOR EXTINGUISHING OR SMOTHERING EXPLOSIONS IN MINES. HERMANN KRUSKOPF, Dortmund, Germany. Filed Dec. 15, 1920. Serial No. 431,056. 5 Claims. (Cl. 102—5.)



1. An improved method of avoiding explosions in mines by firing shots in layers of coals, which consists in introducing natural quartz-dust into suitable easily destroyable tubes, inserting said tubes into the blast-holes and securing other containers filled with dust centrally in front of said blast-holes, substantially as set forth.

1,459,678. TIMER. ELMER J. LEE, Bangor, Pa. Filed Jan. 24, 1922. Serial No. 531,415. 4 Claims. (Cl. 200—26.)

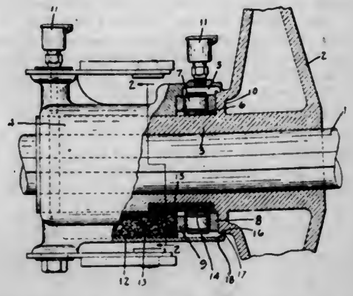


2. A timer including a ring, a contact member encircling said ring, antifriction means interposed between said ring and member, a collar carrying said ring, a plate carried by said collar and extending outwardly therefrom, a sleeve carried by the outer end of said plate, and a spring pressed pin mounted within said sleeve, said pin bearing against said contact member.

1,459,679. OILING DEVICE. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed July 14, 1921. Serial No. 484,602. 7 Claims. (Cl. 64—24.)

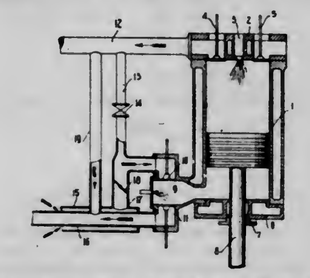
2. The combination with a combined radial and thrust bearing, having a reservoir therein, of a fibrous material

in said reservoir for dispensing the lubricant onto the bearing parts at a uniform flow, and means for collecting



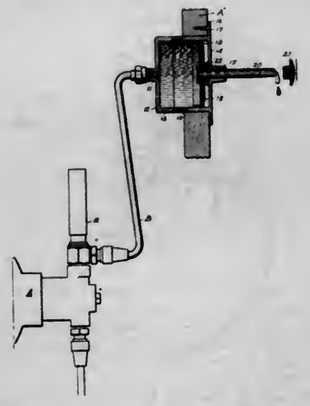
and returning the lubricant to said reservoir, and causing the same to circulate through the fibrous material.

1,459,680. DOUBLE-ACTING INTERNAL-COMBUSTION ENGINE. GERARD JOHAN LUOT, Amsterdam, Netherlands. Filed Dec. 3, 1921. Serial No. 520,061. 9 Claims. (Cl. 123—61.)



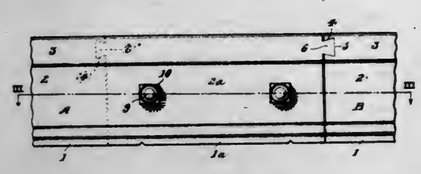
1. In a double-acting internal combustion piston engine the cylinder side opposite the crank having a higher ration of compression than the crank side of the cylinder.

1,459,681. OIL INDICATOR AND PUMP PRIMER. GEORGE FREDERICK MADDEN, Roosevelt, Utah. Filed Nov. 30, 1921. Serial No. 519,022. 5 Claims. (Cl. 103—202.)



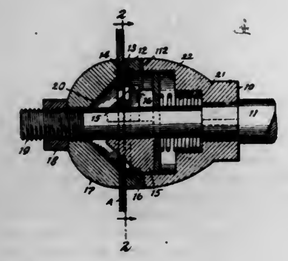
1. A primer for pumps of the class described, including an indicator reservoir adapted to be connected with a pump to receive oil therefrom, and a plunger in said reservoir optionally movable to return oil from the reservoir to the pump for priming.

1,459,682. RAIL JOINT. SAM MORYLIN, Bolivar, Pa. Filed Dec. 19, 1922. Serial No. 607,787. 2 Claims. (Cl. 238—237.)



1. In a device of the character described, a base portion, a head portion, a web portion connecting said base and head, the said base, web, and head portions being cut away on a central vertical plane, the said head portion having a transversely extending dove-tail-shaped recess formed at the inner end of the cutaway portion and a transversely extending dove-tail-shaped lug formed at the outer end of the cutaway portion.

1,459,683. CENTERING AND CLAMPING MEANS FOR SAWS AND OTHER ARTICLES. GEORGE L. NORRIS, Wilmington, Del. Filed Sept. 14, 1922. Serial No. 588,225. 2 Claims. (Cl. 143—155.)



1. An assemblage of the class described including a chamber ring presenting an annular shoulder disposed toward the head and spaced webs extending toward the center of the ring, a plurality of tapered bush members within said head and guided between said web members and said ring, said members being tapered to center a saw wheel, and provided with members projecting therefrom at the periphery adapted to be accommodated in the chamber of the ring, a collar fitted on the arbor coaxial with the head, said collar and said ring adapted to clamp a saw or wheel therebetween, and means on the arbor engaging said collar adapted to cause a clamping axis thereon.

1,459,684. FACING FOR CEMENT WALLS. FRED A. NORTHWALL, Portland, Oreg. Filed May 26, 1922. Serial No. 563,759. 1 Claim. (Cl. 72—21.)

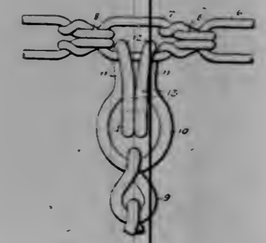
A facing element of the character described, comprising a plate-like formation having offsets in its faces along each end thereof and each side thereof, the offsets upon one side and upon one end occurring upon opposite faces with respect to the offsets upon the other side and other end respectively, and one face having its offset occurring along its upper longitudinal edge ex-

tended inwardly intermediate the ends thereof and the walls forming the termination of the offset comprising



two divergent end walls and an intermediate or connecting wall, and each of said walls sloping inwardly for the purpose described.

1,459,685. ANTISKID DEVICE. CHARLES FREDRICH AGUSTUS NUEBLING, Hewlett, N. Y. Filed Feb. 17, 1923. Serial No. 619,684. 1 Claim. (Cl. 24—237.)



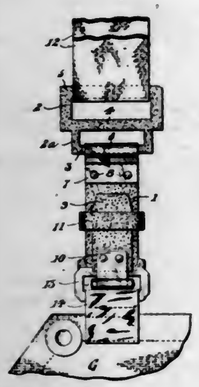
A hook member for joining an end link of one of the cross chains of an anti-skid device to a link of one of the side chains thereof, said member being formed with a single length of material bent to provide a bight for receiving a link of one of said chains, the extremities of said material being curved and a portion thereof between the curved extremities and said bight being bent over upon said bight to form a second bight for receiving a link of the other chain, said curved extremities being adapted to limit the movement of the last named link toward the closed end of the first named bight.

1,459,686. AUTOMATIC LOCK COCK. JOHN T. O'GORMAN, New York, N. Y. Filed June 24, 1922. Serial No. 570,681. 2 Claims. (Cl. 251—165.)



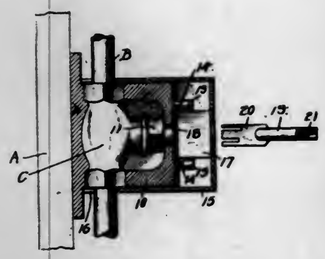
1. The combination with a valve or cock having a casing, a plug and a handle for moving the plug to an open or closed position, of a flange secured to the casing having diametrically opposite apertures, an arm extending from said plug beneath said handle, and a bolt slidingly mounted in said arm, said bolt having a head for preventing the bolt from leaving the arm in one direction, said arm being positioned sufficiently near said handle to cause the head of said bolt to strike the handle when moved in the opposite direction a predetermined distance, said bolt being adapted to ride on said flange when the valve is open or partially open and to automatically drop into either of said apertures when the valve is moved to a closed position.

1,459,687. BUCKLE. JOSEPH PACH, Stone, Ky. Filed Nov. 23, 1922. Serial No. 602,841. 5 Claims. (Cl. 24—201.)



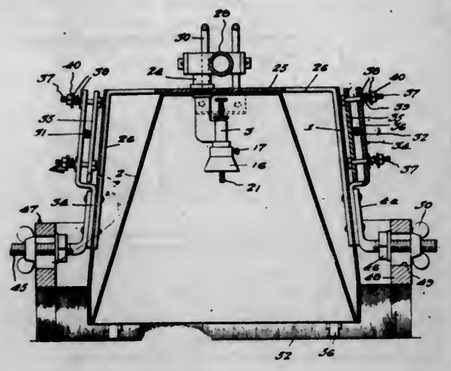
1. In a buckle of the type described, wherein the same is constructed of relatively heavy leather, a main body portion substantially rectangular in plan view, a retaining clasp hingedly connected to one end of the body portion, and a suspender strap attaching loop hingedly connected to the other end of the body portion.

1,459,688. LOCK FOR AUTOMOBILE GAS LINES. DANIEL M. PARKINSON, Springfield, Ohio. Filed June 17, 1922. Serial No. 568,052. 6 Claims. (Cl. 70—123.)



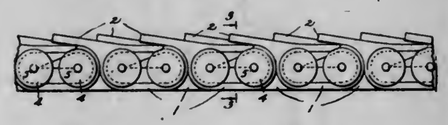
1. The combination with the gas line of an automobile of a valve interposed in said gas line, a casing fitted around the valve casing to enclose the same except for a socket for the insertion of a key to engage the valve stem, a second casing adapted to fit over and enclose said first casing outside said socket, a lock enclosed in said second casing adapted to engage with keepers or locking pins carried by said first casing and a key for operating the lock and the valve stem, substantially as set forth.

1,459,689. SPRAYING MACHINE. JOHN PASCHALL, Chicago, Ill. Filed June 14, 1921. Serial No. 477,529. 12 Claims. (Cl. 91—25.)



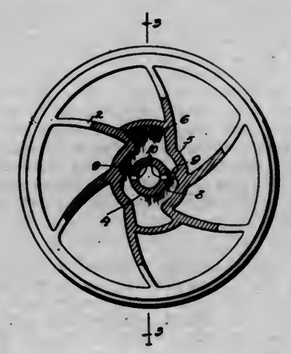
7. In a spraying machine, a body, a guard therein, a spraying nozzle carried by said guard, brackets carried by the body, and material spreading brushes adjustably carried by said brackets.

1,459,690. BELTING. GEORGE E. PERRY, Lincoln, Me. Filed May 20, 1922. Serial No. 562,365. 5 Claims. (Cl. 74—64.)



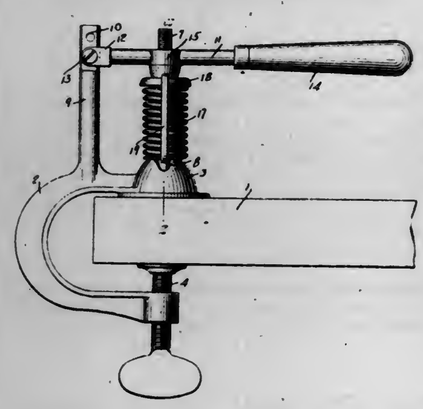
1. A link for belting formed of flexible material, each link having spaced openings and provided with a slit connecting the openings and with another slit leading from one of the openings around said openings and extending out through one edge of the link.

1,459,691. CAR WHEEL. WALTER R. PLITT and WILLIAM A. LLOYD, Meyersdale, Pa. Filed May 27, 1921. Serial No. 472,966. 1 Claim. (Cl. 64—26.)



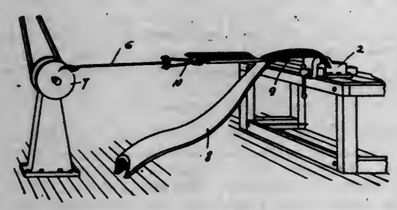
A car wheel consisting of a hub, spokes and a rim forming integral parts; radial projecting front and rear flanges on said hub, cylindrical walls extending between said flanges and connecting some of the spokes forming a cylindrical chamber around said hub, other short cylindrical walls connecting the remaining spokes and extending from the rear flanges, and offset flanges between said first cylindrical walls and said short walls forming pockets communicating with said cylindrical chamber, narrow apertures with wide mouths being provided through the hub extending the entire length of said chamber, and splash ridges of semicircular cross sections across said cylindrical chamber opposite said apertures, and of the same length as the latter, whereby the lubricant contained in said chamber will be forced through said apertures by said ridges during the rotation of the wheel.

1,459,692. SPRING COMPRESSOR. CHARLES A. PRESCOTT, Providence, R. I. Filed Oct. 18, 1921. Serial No. 508,581. 4 Claims. (Cl. 29—86.3.)



3. In a spring compressor, a frame adapted to be attached to a support, a compressor base integral with the frame, a lever pivoted on the frame, a compressor head carried by the lever, a centering device interposed between the base and head, said centering device comprising a post rising from the base and extending through the head, and said base having a groove therein to permit the insertion of one end of a key under a spring in the compressor.

1,459,693. METHOD OF SPLITTING CORD TIRES. WILLIAM MARCHANT RAND, IRVIN C. BROOK, and FREDERICK CAMERON BUTLER, Vancouver, British Columbia, Canada. Filed June 28, 1922. Serial No. 571,515. 2 Claims. (Cl. 154—2.)



1. A method of splitting cord tires without damaging the lower cords which consists in removing the metal

rings from the beads while leaving intact the connection of the ends of the lower cords and the selvage with which the said ends are bound, cutting the casing transversely to transform it into one length, and then pulling apart the upper layer of cords from the lower layer, the end of the lower layer being rigidly secured during the pulling operation.

1,459,694. BOBBIN HOLDER. WILHELM REINERS, Munich-Gladbach, Germany. Filed Sept. 2, 1921. Serial No. 498,179. 1 Claim. (Cl. 242—130.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A bobbin holder for warping creels comprising a sleeve, a flange formed on one end of said sleeve, the other end of said sleeve being threaded, a thumb nut engaging said threads, a plurality of cross-wound bobbins with cross wound cheeses arranged on said sleeve, said bobbins being retained on said sleeve between said flange and nut whereby said sleeve and bobbins may be placed loosely on a warping creel spindle.

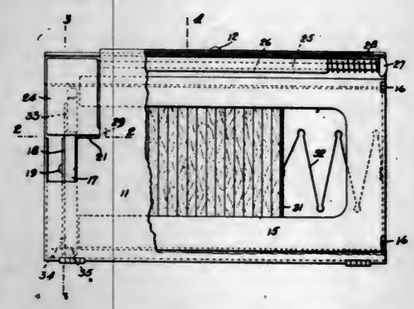
1,459,695. MOUNTING FOR STYLUS LEVERS. GEORGE W. SLIGHT, Brooklyn, N. Y. Filed July 15, 1922. Serial No. 575,242. 4 Claims. (Cl. 274—35.)



1. A device of the character described, comprising a sound box casing, bearings formed in the casing, one of the bearings being in the form of a groove, a stylus arm provided with a trunnion, said trunnion being pivotally mounted in the bearings formed in the casing, and a spring carried by the casing and engaging the trunnion to move the trunnion along the groove to compensate for wear.

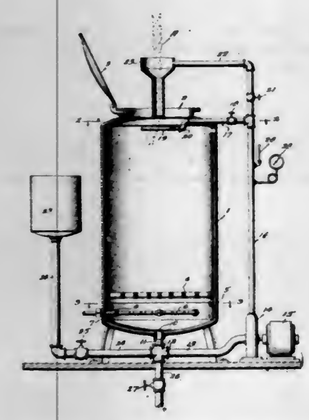
1,459,696. MATCH CASE. SIDNEY SPRAGUE, Brooklyn, N. Y., assignor of one-fourth to Benjamin Futterman, New York, N. Y. Filed Dec. 28, 1921. Serial No. 525,292. 5 Claims. (Cl. 206—34.)

1. A match case comprising an open ended supply chamber adapted to receive a plurality of matches, a match receiving member pivoted adjacent said open end, means for retaining said receiving member in a position to receive the matches from the open end of said supply chamber, means for advancing the supply toward



said open end and forcing the outermost match into said receiving member, and means for releasing said retaining member to deliver the match to the user.

1,459,697. BLEACHING APPARATUS. CHARLES TAYLOR, Paterson, N. J. Filed Oct. 31, 1922. Serial No. 598,140. 1 Claim. (Cl. 8—18.)



In an apparatus of the character described, a kier having an inlet opening, a hopper arranged above said opening, a pipe extending downwardly from said hopper and terminating within said inlet opening to feed the material to be bleached to said kier, a grate in said kier to support the cloth, said grate being arranged adjacent the bottom, a valved outlet pipe arranged in the bottom of said kier, a pipe connecting said outlet pipe to said hopper, a pump arranged in said connecting pipe, a valved branch pipe extending from said connecting pipe, and a perforated rose arranged on the end of said branch pipe and in alinement with said hopper and said first mentioned pipe.

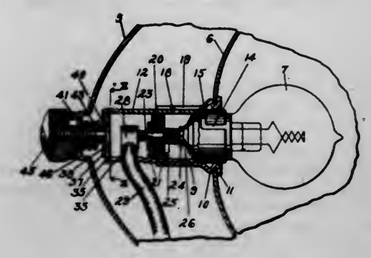
1,459,698. DEPOLARIZER. BORIS H. TEITELBAUM, Brooklyn, N. Y., assignor to Harry M. Koretsky, Brooklyn, N. Y. Original application filed Dec. 3, 1919, Serial No. 342,242. Divided and this application filed Dec. 22, 1920. Serial No. 432,602. 2 Claims. (Cl. 204—38.)

2. A step in the process for making a depolarising mixture for a dry battery, which consists in mixing granular graphite with manganese dioxide composed of grains of such size as to pass through a sieve having 40 meshes to the linear inch, but to be retained on a sieve having 50 meshes to the linear inch, and subjecting the mixture of manganese dioxide and graphite to a current of hot air at a temperature of from 80 to 100 degrees C.

1,459,699. PRODUCTION OF ALCOHOL. JOSEPH VAN RUYMBEKE, Marseille, France. Filed Aug. 15, 1921. Serial No. 492,466. 6 Claims. (Cl. 195—15.)

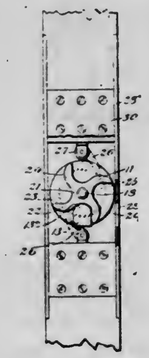
6. The process of producing alcohol of strength 98 to 99 per cent by bringing alcohol vapours into contact with glycerine in a rectifying column, the said glycerine acting as a dehydrating agent.

1,459,700. FOCUSING-LAMP SOCKET. FRED H. WETZEL, Toledo, Ohio, assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Aug. 27, 1920. Serial No. 406,430. 1 Claim. (Cl. 240—44.)



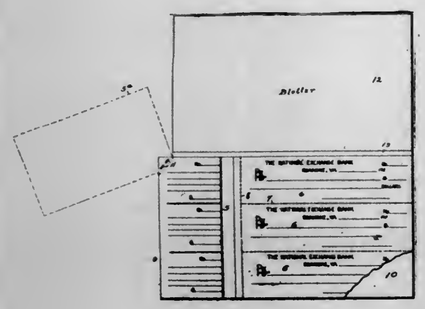
In a lamp having a casing and a reflector therein, a sleeve secured to said reflector, a tubular member slidable in said sleeve, said parts having co-operating elements to prevent relative rotation, a plate at the end of said tubular member, lugs in said member engaging the outer face of said plate, a bolt rigidly secured to said plate, a spring between said casing and said plate and a nut on the outer side of said casing threaded on said bolt.

1,459,701. DOOR LATCH. OSCAR DELLMONT WILLIS, Huntington, W. Va. Filed May 17, 1922. Serial No. 561,672. 3 Claims. (Cl. 292—340.)



1. The combination with a swinging closure and a retractable latch bolt which is normally projected therefrom, of means on the closure support disposed in the path of movement of the latch bolt for permitting of the free movement of the closure to closed position while the latch bolt is in normally projected position and operating to positively lock the closure against opening without retraction of the latch bolt, said means consisting of a rotary keeper having radial blades disposed in the path of movement of the projected latch bolt, and means for limiting the keeper to rotation in one direction.

1,459,702. CHECK BOOK AND THE LIKE. CHARLES MILTON COTT, Roanoke, Va. Filed Apr. 7, 1921. Serial No. 459,216. 1 Claim. (Cl. 283—63.)



A check book comprising a plurality of leaves divided by weakened lines into stub portions and detachable check portions, means for fastening the stub portions together at a corner only of said stub portions to permt of the used stub portions being folded back to give access to the unused stub portions and a combined cover and blotter of a length to cover the exposed portions of the unused stubs and checks but lying inwardly of the used stubs when the latter are thrown bask.

1,459,703. RECOVERY OF AMMONIA FROM GASES CONTAINING THE SAME. HERMANN WIEDERHOLD and CARL EHRENBERG, Furstenwalde-on-the-Oder, Germany, assignors to Industrial Research Limited, London, England, a British Company. Filed Mar. 5, 1923. Serial No. 623,011. 2 Claims. (Cl. 23—21.)

1. A process for the treatment of ammoniacal gases for the purpose described, which consists in bringing the gas in contact with crude carbonaceous material containing the organic acidic bodies, recovering the ammonia absorbed by the crude carbonnceous material by treating the latter with an ammonia liberating alkali, thereafter further treating the carbonaceous material with a mineral acid in slight excess to liberate the organic acids combined with the alkali, and reutilizing the latter for the treatment of further ammonia containing gases.

1,459,704. GAS VENT FOR CONTAINERS. GEORGE W. BENNETT, Cincinnati, Ohio. Filed Aug. 2, 1922. Serial No. 579,219. 3 Claims. (Cl. 215—56.)

1. In a device of the class described, a container, a stopper therefor, a tubular element extending through

the stopper, a receptacle for containing liquid, the tube extending into said receptacle to a point below the liquid



level therein, and said tube being deflected to form receptacle retaining means.

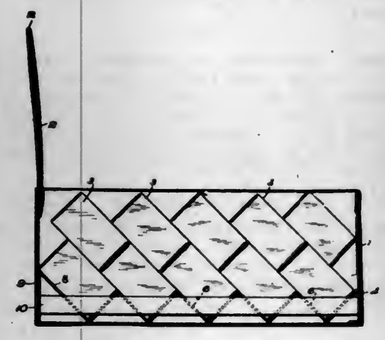
1,459,705. APPLIANCE FOR TEACHING OR PRACTICING THE GAME OF GOLF. CHARLES ASHTON HENRY BULLOCK, London, England, assignor of one-third to Edward J. Waring, Plainfield, N. J., and one-third to Wilbert Edward Stratton, London, England. Filed Jan. 6, 1922. Serial No. 527,325. 4 Claims. (Cl. 46—4.)



1. A device of the class described, comprising a support adapted to be attached to the head of the player, a rod attached at one end to said support, a flexible string attached to the outer end of said rod, and a relatively light ball suspended by and attached to said string.

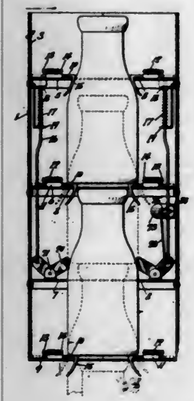
1,459,706. CORRUGATED DISPLAY RACK. GEORGE C. MACDONALD, Elmhurst, N. Y., assignor to Loose Wiles Biscuit Company, Long Island City, N. Y. a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,721. 5 Claims. (Cl. 206—44.)

1. In combination with a carton or other receptacle for packaging and displaying articles, a corrugated member 4 adapted to be placed in the carton or receptacle and to rest upon the bottom thereof, said member having a series of aligned openings 6, and a longitudinally folded rib 10



frictionally held within said openings thereby to maintain constant the angle between corrugations of said member.

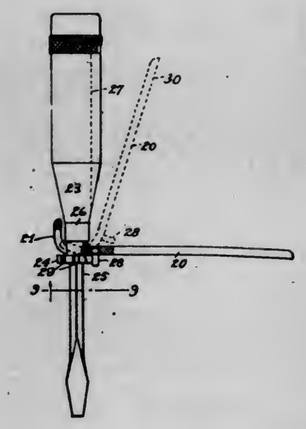
1,459,707. BOTTLE HOLDER. CHARLES F. SHOENFELT, Vandalia, GEORGE H. COOK, Dayton, and FREDERICK H. COOK, Tippecanoe, Ohio; said George H. Cook assignor to said Shoenfelt. Filed July 5, 1921. Serial No. 482,410. 19 Claims. (Cl. 232—41.)



1. A bottle holder through which the bottles are movable axially in a vertical direction, locking means for preventing the removal of a bottle therefrom and means to release said bottle by the insertion of a second bottle.

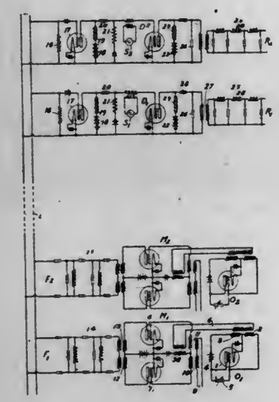
1,459,708. SCREW DRIVER. TIMOTHY B. POWERS, Brooklyn, N. Y. Filed Aug. 9, 1922. Serial No. 580,776. 7 Claims. (Cl. 145—71.)

1. A screw driver comprising the handle, a shank, a collar on the shank adjacent the handle, a lever arm formed of a strip having at one end portion an aperture, the lever being bent to one side at the apertured end, said apertured end portion being arranged to surround the shank adjacent the collar to permit the lever when brought to extend upwardly in proximity to the handle to turn freely around the handle, said apertured portion



also permitting the lever to be swung outwardly to extend transverse to the handle by the apertured portion moving across the shank, which apertured lever portion and the adjacent portion of the device are provided with cooperating means that engage at said transverse position of the lever.

1,459,709. MULTIPLEX SIGNALING. BURTON W. KENDALL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 13, 1916. Serial No. 125,349. 45 Claims. (Cl. 179—15.)



1. The method of multiplex signaling, which consists in modulating each of a plurality of different frequency carrier oscillations in accordance with a signal, eliminating the unmodulated components, transmitting pure modulated waves to distant receiving circuits, and selecting said signals at the proper receiving circuits by restoring in each circuit an unmodulated component similar to that suppressed at the corresponding sending circuit.

Patents Nos. 1,459,710 to 1,460,360.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Issue of June 26, 1923.

Trade-Marks	172—No.	169,577 to No.	169,748, inclusive.
Labels	57—No.	26,104 to No.	26,160, inclusive.
Prints	24—No.	6,763 to No.	6,786, inclusive.
Reissues	6—No.	15,634 to No.	15,639, inclusive.
Designs	38—No.	62,560 to No.	62,597, inclusive.
Patents	651—No	1,459,710 to No.	1,460,360, inclusive.
Total	948		

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) Patent 1,344,570 *Held* invalid for want of invention. *Harmon Paper Co.* v. *Prager*, 287 Fed. Rep., 841.

(U. S. C. C. A. N. Y.) Design Patent 54,152 invalid for want of invention. *Harmon Paper Co.* v. *Prager*, 287 Fed. Rep., 841.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,155,478, T. M. Freeble, Safety apparatus for railway trains, claim 8.

Pat. 1,309,492, A. H. Swett, Package fastener, claims 1, 2, and 3.

Pat. 1,381,700, R. N. Bressler, Inflating valve, claims 5 and 6.

Interference Notice.

U. S. Patent Office, *Washington, June 15, 1923.*

Adolf Bromberg, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application for patent filed by Adolf Bromberg, 167 Wooster Street, New York, N. Y., and an application for patent filed by Elmer S. Rutter, 510 Palisade Avenue, Weehawken Heights, N. J., and a notice of such declaration sent to said Bromberg at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Bromberg, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Notice of Cancellation.

U. S. Patent Office, *Washington, June 8, 1923.*

Reed, Walsh & Lange, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Duffy-Mott Company, Inc., of No. 502 West Twenty-fifth Street, New York, N. Y., to effect the cancellation of trade-mark registration No. 28,448, registered June 23, 1896, to Reed, Walsh & Lange, of Nos. 65 and 67 South Water Street, Chicago, Ill., and the notice of such proceeding sent by registered mail to said Reed, Walsh & Lange at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Reed, Walsh & Lange, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Access to Pending Applications.

No person except the applicant, the assignee whose assignment is of record, or the attorney of record will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

Amendments to Amendments.

Rule 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendment shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

Condition of Applications Under Examination at Close of Business June 15, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,280: Trade-Mark Division, 3,952. Oldest new case, July 3, 1922; oldest amended, June 6, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Sept. 18	Sept. 20	1,209
128	2. HADEN, C. F. (Acting), Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Aug. 7	Sept. 12	1,544
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 14	June 6	1,873
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 14	*Feb. 8	1,481
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	July 28	July 29	1,387
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Sept. 9	*Jan. 15	1,785
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Aug. 24	Nov. 17	2,637
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Jan. 2	*Mar. 14	1,471
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Oct. 2	*May 1	815
235	10. MITCHELL, T. H., Land Vehicles: Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Aug. 29	Sept. 28	1,472
154	11. ARMSTRONG, H. C., Boot and Shoe Making: Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Dec. 6	Dec. 13	999
322	12. PIERCE, P. P., Machine Elements	Oct. 30	Dec. 23	1,480
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Aug. 22	*Feb. 26	1,268
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 16	*Apr. 14	1,188
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 1	Oct. 12	2,090
112	16. BACKUS, C. D., Radiant Energy Telegraphy; Telephony	Aug. 16	Aug. 15	2,468
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Aug. 18	Nov. 22	1,486
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	July 22	July 25	2,034
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Sept. 19	*Feb. 9	794
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Oct. 25	Nov. 20	2,042
212	21. THURBER, W. L., Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Aug. 3	*Jan. 12	1,042
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Sept. 28	Dec. 6	637
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers Sound Recording and Reproducing.	Aug. 5	July 5	856
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Aug. 7	Nov. 1	1,422
315	25. LIGHTFOOT, J. B., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Jan. 26	*Jan. 15	502
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Aug. 14	Sept. 5	948
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 1	July 24	2,135
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 4	Oct. 11	1,519
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 11	Dec. 18	715
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Sept. 1	*Jan. 8	1,961
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 21	Dec. 7	1,725
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 1	Oct. 2	1,346
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Oct. 3	Oct. 5	1,609
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Dec. 4	*Jan. 17	822
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 25	*Mar. 8	1,122
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Dec. 13	Nov. 6	1,954
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 23	Aug. 21	1,930
378	38. IDE, O. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Aug. 26	July 26	1,909
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	July 3	July 27	1,467
269	40. OBERLIN, J. J., Beverages; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woolen Receptacles.	Aug. 22	*Jan. 24	2,038
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Nov. 22	Oct. 24	974
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Sept. 15	Oct. 6	1,684
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 23	Sept. 26	1,330
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Aug. 19	*Jan. 17	1,228
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Aug. 9	Oct. 9	1,531
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 4	Oct. 16	1,412
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Aug. 5	Dec. 26	1,225
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Aug. 3	July 31	2,368
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Oct. 9	Aug. 18	679
102	DESIGNS: C. O. MARKHAM (Acting)	Sept. 13	*Jan. 8	2,667
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, Jr. {Trade-Marks	*Feb. 10	*Mar. 28	3,867
	{Labels and Prints	*June 5	*June 9	85

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

E-Z WAIST COMPANY *v.* RELIANCE MANUFACTURING COMPANY.

No. 1,534. Decided February 5, 1923.

1. TRADE-MARKS—"E-Z", "E-Z-ON"—SAME DESCRIPTIVE PROPERTIES.

The manufacture of work shirts would come within the natural development of the opposer's business as a manufacturer of children's waists, union suits, sleeping garments, etc. The goods belong to the same class and possess the same descriptive properties.

2. SAME—SAME—RIGHTS OF OWNERS.

The owner of a trade-mark will not be hampered or embarrassed in the legitimate extension of his business by the registration of the mark to another.

3. SAME—SAME—SAME DESCRIPTIVE PROPERTIES.

It is not enough in all cases that the effect would not be to induce the intending purchaser to accept goods of one kind when he desired those of another. It is not likely that a person desiring a child's sleeping garment would accept a work shirt in its stead; but he might be deceived into believing that the sleeping garment was produced by the same concern as that which put out the work shirt, because of the similarity of the marks.

4. SAME—SAME—DOUBT RESOLVED AGAINST NEWCOMER.

If there is doubt whether confusion or mistake would result from the registration of a mark, the doubt must be resolved against the newcomer. The field from which a person may select a trade-mark is practically unlimited, and hence there is no excuse for his impinging upon or even closely approaching the mark of his business rival.

Mr. J. W. Milburn for E-Z Waist Co.

Mr. E. F. Pierce for Reliance Mfg. Co.

Before SMYTH, Chief Justice, ROBB and VAN ORSDEL, Associate Judges.

SMITH, *C. J.:*

The Reliance Manufacturing Company sought registration of the trade-mark "E-Z-On" for work shirts. Opposition was interposed by the E-Z Waist Company as the owner and user of the registered trade-mark "E-Z", applied by it to children's knitted waists, knitted and nainsook union suits, and sleeping garments, on the ground that the goods of both parties were of the same class, and that because of this the registration of the mark to the manufacturing company would be likely to lead to confusion. Applicant claims use of the mark since November 14, 1916, while the opposer's date is as far back as 1895. The opposer, therefore, is entitled to priority. It is admitted by the applicant that its mark and that of the opposer so nearly resemble each other that if used on goods of the same descriptive properties confusion might result, but it insists that work shirts to which the one is applied do not belong to the same class of goods as those upon which the other is used. The two tribunals of the Patent Office united in holding that the opposition was not well founded, and that the application for registration should be granted.

Section 5 of the Trade-Mark Act (33 Stat., 725) says that no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration except in certain cases which are immaterial here. This means that a mark by which the goods of the owner may not be distinguished from other goods of the same class shall not be registered. If the marks before us so nearly resemble each other that the mark of the applicant would not distinguish its goods from those of the opposer it should not be registered.

[1, 2] The opposer is the pioneer user of the mark. We think manufacture of work shirts would come within the natural development of its business as a maker of children's waists, union suits, sleep garments, etc. The goods belong to the same class and possess the same descriptive properties. We have said that the owner of a trade-mark will not be hampered or embarrassed in the legitimate extension of his business by the registration of the mark to another. (*Canton Culvert & Silo Company v. Consolidated Car-Heating Co.*, 44 App. D. C., 491; 226 O. G., 1799.) In another case Mr. Justice Van Orsdel, speaking for this court, declared that the word "class," as used in the statute, means broadly a genus including as species any goods upon which the use of the same mark, when the goods are exposed side by side, would tend to mislead the purchasing public. The goods of the contending parties in that case were knitted and textile undershirts, drawers and union suits on the one hand; and men's, women's, and children's stockings on the other. It was held that they possessed the same descriptive properties, and registration of the mark to the last comer was denied. (*N. Wolf & Sons v. Lord & Taylor*, 41 App. D. C., 514; 202 O. G., 632.) This decision followed *Church & D. Co. v. Russ* (99 Fed., 276; 91 O. G., 228), where it was held to be a recognized rule that different species of goods are of the same class when a certain trade-mark used on them would enable an unscrupulous dealer to palm off on an unsuspecting purchaser the goods of one make when he supposed he was receiving the goods of another. If a person familiar with the goods of the opposer in this case desired to purchase work shirts and was offered some bearing the mark "E-Z-On" he would likely be led to believe that they were produced by the opposer. Another authority bearing on the point is *Collins & Co. v. Oliver Ames & Sons* (18 Fed., 561).

[3, 4] Appellee has brought to our attention decisions wherein it was held that confusion would not result from the use of the same mark by different parties if the effect would not be to induce the intending purchaser to accept goods of one kind when he desired those of another; as, for instance, to accept tea when he desired coffee. While this test may be satisfactory in some cases it is not in all. It is not likely that a person desiring a child's sleeping garment would accept a work shirt in its stead, but he might be deceived into believing that the sleeping garment was produced by the same concern as that which put out the work shirt, because of the similarity of the marks. The purpose of the Trade-Mark Act is to prevent fraud and mistake. That purpose would not be served if we permitted this mark to be registered by the applicant. If it be said that it is not clear that confusion or mistake would result from the registration of the mark we answer that it is not necessary that it should be in order that registration may be denied. If we doubt upon the subject the doubt must be resolved against the newcomer. The reason for this is that the field from which a person may select a trade-mark is practically unlimited, and hence there is no excuse for his impinging upon, or even closely approaching, the mark of his business rival. (*William Waltke & Co.* v. *Geo. H. Schafer & Co.*, 49 App. D. C., 254; 263 Fed., 650; 273 O. G., 630.)

We think, therefore, that the opposition should have been sustained, and consequently the decision of the commissioner is reversed.

Reversed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

638,588, L. de F. Munger, Elastic and pneumatic tires, suit filed Jan. 4, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/277, *L. de F. Munger* v. *Perlman Rim Corp. and Others.*

837,017, C. A. Von Welsbach, Pyrophoric alloy, suit filed Jan. 26, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/38, *A. Harris and Others* v. *Alexander Industries, Inc.* Order that bill be taken pro confesso Feb. 27, 1923. Consent order dismissing suit without prejudice Mar. 13, 1923.

876,906, G. W. Pickard, Intelligence intercommunication by magnetic-wave components, suit filed Dec. 29, 1922, U. S. D. C., S. D. N. Y., Doc. E 25/258, *Wireless Specialty Apparatus Co.* v. *Cutting & Washington Radio Corp. and Others.* Final decree sustaining patent, adjudging infringement, and perpetually enjoining defendants.

943,358, P. W. Litchfield, Tires, suit filed Apr. 24, 1923, U. S. D. C., N. D. Ohio (E. D.), Doc. 886, *Goodyear Tire & Rubber Co.* v. *Michelin Tire Co.*

958,478, W. E. Davey, Process of reenforcing trees, suit filed Mar. 30, 1923, U. S. D. C., E. D. Wis., Doc. C. D. 1306, *The Davey Tree Expert Co.* v. *W. Hintz.* Final consent decree in favor of plaintiff Apr. 13, 1923.

962,790, A. F. Shore, Scleroscope, suit filed Jan. 17, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/10, *The Shore Instrument & Mfg. Co.* v. *The Finland Corp.*

1,004,847, L. S. Brach, Composition of matter, suit filed Apr. 19, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/254, *The Solderall Co.* v. *Sodder-Rite Co., Inc.*

1,045,200, C. D. Severance, Tools, suit filed Jan. 31, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/65, *Goodell-Pratt Co.* v. *Consolidated Tool Works, Inc.*

1,116,850, G. C. Schmitz, Suction cleaning devices, suit filed Nov. 4, 1919, U. S. D. C., E. D. Wis., Doc. C. D. 957, *F. J. Osius* v. *Phillip Gross Hardware Co.* Decree dismissing bill for want of equity Apr. 3, 1923.

1,180,159, I. Langmuir, Incandescent electric lamps, suit filed Mar. 27, 1923, U. S. D. C., D. R. I., Doc. E 166, *General Electric Co.* v. *Brite-Lite Lamp Mfg. Co., Inc., and Others.*

1,201,270. (See 1,377,405.)

1,204,104, Wilcox & Cavanagh, Ignition mechanism for internal-combustion engines, suit filed Apr. 20, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/260, *Connecticut Telephone & Electric Co., Inc.* v. *Brown-Green Ignition Sales Co., Inc.*

1,292,466, H. B. Hills, Deck construction, suit filed Feb. 7, 1923, U. S. D. C., D. Pa., Doc. 2697, *Marine Decking & Supply Co.* v. *Pennsylvania Flooring & Woodoleum Co.*

1,314,799, G. K. Guinzburg, Garment protector, suit filed Jan. 29, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/53, *I. B. Kleinert Rubber Co.* v. *Polkare Mfg. Co., Inc., et al.*

1,369,517, Re. 15,427, H. M. Boe, Grease or oil dispensing apparatus, suit filed Apr. 25, 1923, U. S. D. C., N. D. Ohio, (E. D.), Doc. 888, *H. M. Boe and Others* v. *The Marvel Equipment Co. and Others.*

1,369,994, G. W. Weaver, Hair waver, final decree sustaining patent, adjudging infringement, and granting injunction, U. S. D. C., S. D. N. Y., *A. Klar* v. *T. B. M. Gates.*

1,377,405, L. de Forest, Audion circuit; 1,201,270, same, Oscillating current generator, suit filed Jan. 29, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/54, *De Forest Radio Telephone & Telegraph Co.* v. *C. Freshman Co.* Same, suit filed Jan. 12, 1923, U. S. D. C., S. D. N. Y., Doc. E 25/382, *De Forest Radio Telephone & Telegraph Co.* v. *The Electrad Corp. of America.* Same, suit filed Mar. 5, 1923, U. S. D. C., D. Pa., Doc. 2703, *De Forest Radio Telephone & Telegraph Co.* v. *Durham & Co., Inc.*

1,388,434, G. V. Johnston, Method and apparatus for butt-welding thin-gage tubing; 1,435,306, same, Butt-welded thin-walled tubing, suit filed Mar. 17, 1923, U. S. D. C., E. D. N. Y., Doc. 1234, *The Elyria Iron & Steel Co.* v. *Mohegan Tube Co., Inc., et al.*

1,400,007, W. Sparks, Brackets, suit filed Apr. 26, 1923, U. S. D. C., E. D. Mich. (S. D.), Doc. 541, *The Sparks-Withington Co.* v. *Schwarze Electric Co.*

1,405,962, J. M. Atkinson, Combination garments, suit filed Jan. 25, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/50, *Oppenheim, Oberndorf & Co., Inc.*, v. *McLoughlin Mfg. Co.*

1,425,956, E. O. Frederics, Hair-waving means, suit filed Apr. 19, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/253, *E. Frederics, Inc.*, v. *Eugene, Ltd.*

1,435,306. (See 1,388,434.)

1,435,660, W. M. Rogerson, Educational appliances, suit filed Jan. 24, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/47, *Wallace Institute* v. *R. B. Wheelan (Pat Wheelan).*

Des. 43,459, Kellner & Worms, Knitted necktles, suit filed Apr. 12, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/244, *Franklin Knitting Mills, Inc.*, v. *Gropper Knitting Mills, Inc.*

Des. 61,733, M. H. Daudy, Lace, suit filed Jan. 25, 1923, U. S. D. C., S. D. N. Y., Doc. E 26/49, *North American Lace Co.* v. *American Textile Co., Inc.* Temporary injunction restraining defendants.

Re. 15,427. (See 1,369,517.)

Changes in Classification.

(ORDER NO. 2,817.)

U. S. PATENT OFFICE, *Washington, May 24, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 202, Charcoal and Coke (Division XXXI), establish subclasses—

12. **Bone-black apparatus—**
13. Kilns or retorts.

The patents contained in these subclasses have been taken for the most part from class 127, Sugar and Salt, subclass 2, Bone black, hereinafter abolished.

In class 252, Substance Preparation (Division VI), establish subclasses—

1. **Miscellaneous.**
2. **Absorbents—**
3. Carbon type.
4. **Volatile-organic-liquid recovery.**
5. **Cooling and refrigerating compositions.**
6. **Colloids and suspensoids.**
7. **Waste sulphite liquor.**
8. **Chemical purification of mineral substances.**

The patents contained in subclass 2 have been taken for the most part from class 127, Sugar and Salt, subclass 2, Bone black, hereinafter abolished, and from class 252, Substance Preparation, and those contained in subclass 3 have been taken for the most part from class 127, Sugar and Salt, subclass 2, Bone black, hereinafter abolished, and from various subclasses in class 210, Liquid Separation or Purification, and include compositions of matter in solid form for absorbing gaseous, liquid, or solid matter, which function by occlusion, absorption, capillarity, or other surface effect. The patents contained in subclasses 1, 4, 5, 6, 7, and 8 have been taken for the most part from the patents contained in class 252, Substance Preparation, as it previously existed without being divided into subclasses.

In class 127, Sugar and Salt (Division XXXI), change the title of the class to read *127, Sugar, Starch, and Carbohydrates*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions, the patents formerly contained in subclass 2, Bone black, having been placed for the most part in class 202, Charcoal and Coke, subclass 12, Bone-black apparatus, and the subclass indented thereunder, and class 252, Substance Preparation, subclass 2, Absorbents, and the subclass indented thereunder, hereinbefore established; those formerly contained in subclasses 9, Evaporating pans, and 18, Vacuum pans, with part of those formerly contained in subclass 15, Refining sugar, having been placed in class 159, Concentrating Evaporators, hereinafter established; those formerly contained in subclasses 14, Refining salt, and 16, Salt making, having been placed partly in class 159, Concentrating Evaporators, hereinafter established, and partly in class 23, Chemicals, subclass 13, Salines (see the fifth note following the class definition of class 159); and those formerly contained in subclass 24, Vacuum coolers, having been placed for the most part in class 62, Refrigeration, subclass 152, Liquid coolers, Vacuum, and the subclass indented thereunder:

127.—SUGAR, STARCH, AND CARBOHYDRATES.

Apparatus—
1. Hydrolyzing,
2. Treating sacchariferous material—
3. Leaching or diffusion—
4. Combined disintegrator,
5. Advancing solid material—
6. Multiple stage,
7. Tubular cell,
8. Diffusion batteries,
9. Treating sacchariferous solutions—
10. Dialyzers,
11. Defecating apparatus—
12. Gas and liquid contact,
13. Separating tanks,
14. Mixing tanks,
15. Forming crystals—
16. Concentrating and crystallizing,
17. Treating crystals—
18. Purging and molding—
19. Centrifugal,
20. Purging,
21. Granulating and mixing,
22. Melting or dissolving,
23. Treating amylaceous material—
24. Separating and purifying—
25. Screens or washers,
26. Tables,
27. Decanters or settling tanks,
28. Cookers.

Products—
29. Miscellaneous,
30. Sugars only—
31. Lactose,
32. Modified starches—
33. Added chemical.

Processes—
34. Carbohydrate manufacture and refining—
35. Biochemical treatments,
36. Hydrolysis of carbohydrates—
37. Cellulose material,
38. Amylaceous material—
39. With preliminary purification of starch,
40. With purification of product,
41. Inversion of sucrose,
42. Sugar manufacture and refining—
43. Extracting from solid material—
44. Chemical treatment,
45. Counterflow,
46. Treatment of sacchariferous solutions—
47. Chemical precipitation of sucrose,
48. Chemical precipitation of impurities—
49. Impregnated absorbent,
50. Alkaline reagent followed by precipitant,
51. Acid reagent followed by precipitant,
52. Gassing,
53. Physical separation of impurities—
54. Dialysis,
55. Filtering or absorption,
56. Centrifuging,
57. Settling or flotation,
58. Crystallizing or solidifying—
59. Molding,
60. Seeding,
61. Evaporating to crystallization—
62. Return of intermediate products,
63. Treating solid sugar or crystals—
64. Purging or bleaching,
65. Starch manufacture and refining—
66. Tubers,
67. Treatment of starch-bearing material—
68. Steeping,
69. Treatment of amylaceous liquids—
70. Chemical,
71. Treating starch.

Establish, in Division XXXI, Class 159, Concentrating Evaporators, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from class 127, Sugar and Salt, subclasses 9, Evaporating pans; 14, Refining Salt; 15, Refining sugar; 16, Salt making; and 18, Vacuum pans, hereinbefore abolished, and from various subclasses in classes 122, Liquid Heaters and Vaporizers; 257, Heat Exchange; and 261, Gas and Liquid Contact Apparatus:

159.—CONCENTRATING EVAPORATORS.
1. Miscellaneous.
2. Superheating and pressure release.
3. Spray type—
4. Gaseous current.
5. Film type—
6. Centrifugal,
7. Moving-film apport—
8. Gaseous current—
9. Rotary drum or disk—
10. Exterior surface,
11. Rotary drum or disk—
12. Inclosing chamber,
13. Moving film—
14. Climbing,
15. Zigzag.
16. Gaseous blast or current.
17. Multiple effects—
18. Superimposed,
19. Combined closed and open,
20. Variable or counter flow.
21. Combined closed and open pans,
22. Closed evaporating chambers—
23. Indirectly heated—
24. Regenerative,
25. Rotatable agitator or coil,
26. Heated tubes—
27. Vertical,
28. Heating elements,
29. Directly heated,
30. Samplers,
31. Liquid traps or separators.
32. Open pans—
33. With rakes,
34. Tiltable, removable, or portable,
35. Interposed liquid receptacle,
36. Steam and furnace heated,
37. Steam heated,
38. Furnace heated—
39. Liquid tubes in flue,
40. Flues in pan,
41. With dampers.
42. Strainers or skimmers.
43. Fluid feed or discharge devices—
44. Automatic.
45. Apparatus for graining and separating crystals.
46. Preliminary heaters and heat economizers.
47. Processes—
48. Spray,
49. Film,
50. Concentration and crystallization.

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,818.)

U. S. PATENT OFFICE, *Washington, May 25, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 200, Electricity, Circuit Makers and Breakers (Division XXXVII), establish the following subclass and definition:

Thermal current—
115.5. Combined connector.

115.5. THERMAL CURRENT, COMBINED CONNECTOR. The thermal-current cut-out is incorporated as a part of or in combination with a connector.

Note.—Connectors generally are classified in class 173 ELECTRICITY, CONDUCTORS, subclass 324, Connectors, and the subclasses indented thereunder.

The patents contained in this subclass have been taken from various subclasses indented under subclass 324, Connectors, in class 173, Electricity, Conductors.

In class 200, Electricity, Circuit Makers and Breakers (Division XXXVII), subclass 114, Thermal current, Combined switch, abolish the existing definition and establish in lieu thereof the following definition:

In which the thermal element is combined with a switch or circuit controller.

THOMAS E. ROBERTSON, *Commissioner.*

182.—SEWERAGE.
1. Miscellaneous.
2. Catch basins—
3. Liquid-seal outlet—
4. Automatic valve,
5. Automatic outlet valve,
6. Street-curb inlet.
Traps—
7. Liquid seal—
8. Refrigerator type,
9. Grease trap,
10. Hopper,
11. Air port,
12. Refiller,
13. Mercury seal,
14. Automatic valve—
15. Inlet,
16. Outlet,
17. Hand valve,
18. Plural connection,
19. Projecting inlet and outlet,
20. Projecting inlet,
21. Projecting outlet,
22. Flushing pipe,
23. Internal strainer,
24. Closures,
Valve seal—
25. Vertical pipe,
26. Horizontal pipe.
27. Air valves.
28. Flushers.
29. Cleaners.
30. Animal stops.
31. Grated inlets,

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,820.)

U. S. PATENT OFFICE, *Washington, June 6, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 182, Sewerage (Division XLIII), abolish the existing subclasses and establish in lieu thereof the following subclasses and definitions:

Changes in Classification.

(ORDER No. 2,821.)

U. S. PATENT OFFICE, *Washington, June 7, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 211, Store Furniture (Division VIII), abolish subclasses—

Cabinets—
41. Type—
42. Delivering.

The patents formerly contained in these subclasses have been placed for the most part in class 276, Type Setting, subclasses 44, Type cases, and 45, Type cases, Feeding, hereinafter established.

In class 276, Type Setting (Division XVII), establish the following subclasses and definitions, the patents contained therein having been taken for the most part from class 211, Store Furniture, subclasses 41, Cabinets, Type, and 42, Cabinets, Type, Delivering, hereinbefore abolished:

44. Type cases—
45. Feeding.

44. TYPE CASES. Means for holding or storing type for the compositor. Includes type cases proper and also accessories such as stands, cabinets, etc.

Search Classes—
199—TYPE CASTING, subclass 44, Integral line, Magazines.
211—STORE FURNITURE, subclass 7, Cabinets.

45. TYPE CASES, FEEDING. Means for feeding type to the delivery point of the holding means or means for delivering the type to be set up or stored.

Search this class, subclass 37.
Search Classes—
199—TYPE CASTING, subclasses 15, Integral line, Assembling and distributing, Multiple-magazine machines, and the subclasses indented thereunder; 19, Integral line, Assembling, Multiple-magazine machines, and the subclasses indented thereunder; and 44, Integral line, Magazines, and the subclasses indented thereunder.
211—STORE FURNITURE, subclass 8, Cabinets, Delivering.

In class 276, Type Setting (Division XVII), add to the main class definition, before the note, the words:

Also cabinets, trays, or other means for holding or storing type for the compositor, together with means for feeding the type to the delivery point of the holding means or from the type cabinet.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 26, 1923.

[VOL. 311. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,793. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BALTIMORE BARGAIN HOUSE, Baltimore and Cumberland, Md. Filed Apr. 24, 1919.

Baltimore Bargain House

Particular description of goods.—Shoe Lasts, Blind Awnings, Animal Traps, Rat Traps, Rubber Cloth, Rubber Carriage Drill and Duck, Paper Makers' and Printers' Felting, Corks, Rubber Mats, Plaster Bas-Reliefs, Statuary, Statuettes, Mechanical Signs, Metallic Bindings for Oilcloths, Banners, Panels, Sticky Fly Paper, Rubber Floor and Bath Mats, Felting Made from Cattle Hair, and All Cotton Dress Goods Prepared by Fireproof Process, Bronzes, Artificial Leather, Imitation Chamois Skins, Waterproof Cloths, Cloth or Canvas Backed Leather, Leatherboard, Compressed Vegetable Fiber in Sheet Form, Fly and Insect Catchers, Stepladders, Canvas Canopies, Bottle Stoppers, Artificial Straws, Mousetraps, Bottle Corks, Blackboards, Substitute for Leather Consisting of Pulpboard, Make-Ready Fabric for Printers, Holders for Spreading and Hanging Coats, Vests, Trousers, Skirts, Waists, and Other Apparel; Imitation Leather, Waterproof Fabric, Tents, Awnings, Wagon Tops, Tarpaulins, Roll Felts, Moth Catchers, Tablets with Figures in Relief, Shoe-Trees; Elastic Felt for Mattresses, Cushions, and Stair and Other Pads; Cloth Felts, Shoe Felts, and Hat Felts; Fabrics of Asbestos, Waterproof Fabrics Impregnated with Oils or Waxes or Chemicals and Wagon Covers Made Therefrom, Hollow Shoe Forms, Flags and Banners, Glass and Metal Advertising Signs, Wooden Ladders of All Kinds, Caps and Corks, India-Rubber Stair Nosings, India-Rubber Binding for Mats or Carpets, Bottle and Prescription Corks, Metallic Bottle Stopper, Bungs, Apparatus for Cooking by Retained Heat, Sheet Rubber, Waterproofed Cotton Piece Goods, Straw Pipes or Tubes Through Which Liquids may be Drawn; Wreaths, Crosses, Garlands, and Funeral Decorations Formed of Beads; Statuary, Memorial Tablets, Ornamental Tablets and Trimmings of Bronze and Other Metals, Stoppers Constructed of Tin and Cork; Chemically-Treated and Compressed Vegetable-Fiber Sheets, Rolls, Tubes; Fireless Cook Stoves, Flag Poles, Pyrographic Outfits, Felts in the Piece, Skirt and Trousers Hangers Made of Metal, Textile Cotton Fabric Waterproofed with Oil, Pyrographical or Burning Instruments or Tools and Appliances Therefor, Rubber Sheeting; Poultry Fountains, Cups, and Feeders; Waterproofed Woolen, Worsted, Cotton, and Linen Tarpaulins; Hayrick Covers, Tents, Paper and Porcelain Bottle Closures, Poultry Markers, Pyrographic Pencil, Leather Cloth, Electrotypes, Curtain Stretchers; Planks Used in Cooking Fish, Steaks, and the Like; Sticky Insect Banding for Fruit Trees, Mechanical Impact Fly Killers, Felt Pennants, Packing-Lined Metallic Caps for Bottles and the Like, Implements for Disabling or Killing Insects, Waterproofed and Spotproofed Silks, Poultry Perches, Display Figures, Garment Hangers, Poultry Drinking Pans Constructed of Metal, Devices for Catching Flies, Advertising Signs of a Structural or Mechanical Nature or of a Nature Not Susceptible of Being Made by a Printer, Boot and Shoe Trees, Badges and Buttons, Waterproofed Merchandise Covers, Dress-Forms, Paper-Makers' Jackets, Pennants, Emblem Pins and Display Emblems Not Made of Precious Metal, Metal Signs, Rubber in the Piece Used as Soling for Canvas and Leather Shoes, Waterproofed Fabric for Vehicle Tops, Fireproof Textiles, Clothes-Marking Clips, Garment Folders or Flat Forms Placed Inside a Coat or Garment to Keep Same from Creasing; Porcelain, Glass, and Vitreous-Ware Stoppers for Bottles; Pyroxylin-Coated Fabrics, Photo-Engravings in the Nature of Engraved Plates, Granulated-Composition-Cork Disks and Tin Bottle Caps Made Up with Granulated-Cork Disks, Wood-Top Corks, Portable Garment Hangers for Household and Travelers' Use, Ladders, Ladder Brackets, Mason Horses, Extension Planks, Telescoping Extension Planks, Ladder Bumpers, Trestles, Platforms and Parts of Same, Packing Forms for Garments and Garment-Display Forms, Vulcanized Fiber, Translucent Material for Decorating Window Glass, Lithographed and Etched Metal Signs and Name Plates, Carriage Cloth, Auto Touring Tents, Cork Innersoling for Shoes, Hat Blocks; Silk, Satin, Serge, and Other Woven Fabrics Provided with a Coating to Give the Appearance of Leather; Asbestos Table Pads, Trouser Stretchers, Pile Fabrics and Corduroys Treated to be Waterproof, Oiled and Treated Cotton Piece Goods to be Used as a Substitute for Window Glass, Rubberized Top Fabric for Vehicles, Millinery Felts in the Piece, Fly Swatters, Plant and Tree Protectors Made of Tar-Felt Paper.

Claims use since 1881.

Ser. No. 121,865. (CLASS 15. OILS AND GREASES.) INTER-STATE OIL COMPANY, Minneapolis, Minn. Filed Aug. 21, 1919.



We disclaim the right to the exclusive use of the expression "Runs Winter and Summer."

Particular description of goods.—Lubricating Oils and Greases.

Claims use since Nov. 1, 1918.

Ser. No. 141,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED SCHRATTER, doing business as Schratter Brothers, New York, N. Y. Filed Dec. 15, 1920.

GALLO

Particular description of goods.—Canned Peppers.
Claims use since Feb. 1, 1918.

Ser. No. 142,829. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARRY A. DOUGLAS, doing business as H. A. D. Sales & Engineering Co., Not Incorporated, Bronson, Mich. Filed Jan. 27, 1921.



The shading upon the drawing is a copy of the shading as it appears upon the trade-mark as actually used.
Particular description of goods.—Electric Connectors, Electric Connecting Plugs, Electric Sockets, Electric-Wiring Outfits, Dash Incandescent Lamps, Electric Cowl Lamps, Electric Inspection Lamps, Electric Switches, Electric Headlights, Electric Spark Plugs, and Electric Spotlights.
Claims use since Nov. 1, 1920.

Ser. No. 147,289. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HARTMANN TRUNK COMPANY, Racine, Wis. Filed May 6, 1921.

BROCADEL

Particular description of goods.—Waterproof Cloth or Fabric Which Forms the Outside Covering for Trunks and Which is Cemented or Otherwise Fastened to and Forms Part of the Trunk.
Claims use since Apr. 11, 1921.

Ser. No. 150,871. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MENOO PRODUCTS COMPANY, Pittsburgh, Pa. Filed July 23, 1921.

MENOO

Particular description of goods.—Adhesive Patches.
Claims use since Feb. 1, 1918.

Ser. No. 152,799. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM H. HENDRICKS, doing business as Daisy Dish Pan Company, New Haven, Conn. Filed Sept. 10, 1921.



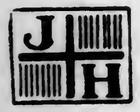
Particular description of goods.—Nonenameled Dish Pans.
Claims use since about May 20, 1921.

Ser. No. 153,200. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELMER T. CUNNINGHAM, San Francisco, Calif. Filed Sept. 22, 1921.

REMLER

Particular description of goods.—Radio Apparatus—Namely, Variometers, Variocouplers, Detector Panels, Amplifier Panels, Rotary Cam Switches, Rheostats, Dials, Knobs, Levers, Potentiometers, Grid Leaks, Condensers, Coil Plugs, Panel Plugs, Coupling Plugs, Coil Units, Crystal-Detector Stands, Rotary Lever Switches, Inductance Coils, Tube Sockets, Tuning Coils, Variable Resistances and Complete Radio Receiving Equipments.
Claims use since February, 1919.

Ser. No. 153,507. (CLASS 39. CLOTHING.) JOSEPH HILTON, New York, N. Y. Filed Sept. 29, 1921.



Particular description of goods.—Men's, Young Men's, and Boys' Clothing and Haberdashery—Namely, Suits in One, Two, and Three Piece Garments.
Claims use since Sept. 12, 1921.

Ser. No. 154,346. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN STEAM GAUGE & VALVE MANUFACTURING COMPANY, Boston, Mass. Filed Oct. 20, 1921. Under section 9 of the act of Mar. 19, 1920.

AMERICAN

Particular description of goods.—Indicating Gauges, Recording Gauges, Indicating Thermometers, Recording Thermometers, Engine Indicators, Revolution Counters, and Gauge Testers.
Claims use since on or about the dates below: Jan. 1, 1851, upon gauges; since Jan. 1, 1875, upon indicators and revolution counters; since Jan. 1, 1907, upon gauge testers; since Jan. 1, 1915, upon thermometers.

Ser. No. 156,248. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BERGUSON-SKINNER CORPORATION, Chicago, Ill. Filed Dec. 5, 1921.

Lite-Iron

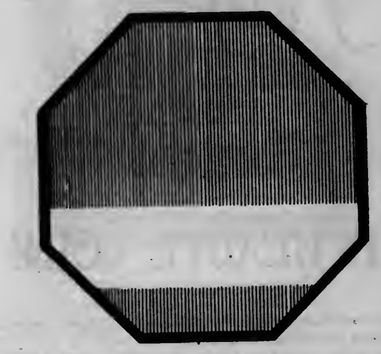
No claim is made to the words "Lite-Iron" except as shown, no common-law rights, however, being waived.
Particular description of goods.—Pistons.
Claims use since Oct. 15, 1922.

Ser. No. 156,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. NORFLETT, doing business as Royal Progressive Company, Brooklyn, N. Y. Filed Dec. 5, 1921.



No claim made to the words "System Regulator" apart from the mark shown in the accompanying drawing.
Particular description of goods.—General Tonic.
Claims use since Mar. 15, 1920.

Ser. No. 156,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH STERN & SONS, INC., New York, N. Y. Filed Dec. 14, 1921.



The trade-mark consists of an octagonal black border inclosing a horizontal white band interposed between upper and lower red bands. The lining of the drawing indicates the color red.
Particular description of goods.—Packaged Meats and Meat Products in General—Namely, Bacon, Ham, and Lard.
Claims use since June 15, 1920.

Ser. No. 157,032. (CLASS 39. CLOTHING.) GREENWALD BROTHERS INCORPORATED, Philadelphia, Pa. Filed Dec. 22, 1921.

SUPERIOR "KLOSFIT" HOSIERY QUALITY

The word "Hosiery" and the words "Superior Quality" form no part of the mark.
Particular description of goods.—Hosiery.
Claims use since Sept. 6, 1921.

Ser. No. 157,185. (CLASS 37. PAPER AND STATIONERY.) W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Dec. 27, 1921.

LIFETIME

Particular description of goods.—Fountain Pens.
Claims use since April, 1920.

Ser. No. 157,336. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SOMMER & RUNGE, Berlin, Germany. Filed Dec. 30, 1921.

SuR BERLIN

The word "Berlin" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Laboratory Apparatus for Investigating Oils and Fats and Parts of Such Apparatus, Such as Petroleum Gauges, Flame-Point Testers, Viscosimeters, Viscidity Meters, Distilling Apparatus, and Distillation Proving Apparatus for Oil, Benzine, and Petroleum; Consistency Meters, Apparatus for the De-

termination of the Viscosity of Oil under Varying Conditions, Leptometers, Shale-Determination Meters; Measuring Apparatus, Such as Longitudinal and Circular Dividing Apparatus, Instruments of Comparison; Scales for the Determination of the Specific Weight of Grain.
Claims use since Jan. 20, 1921.

Ser. No. 158,727. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed Feb. 1, 1922.

QUARTZ-QUALITY
Silicate *Service*
Philadelphia Quartz Company - Philadelphia, Pa.
Manufacturers of Silicate of Soda in Its Various Forms

Without waiving any rights at common law no claim is made to the exclusive use of the words "Silicate," "Service," "Philadelphia, Pa." "Manufacturers of Silicate of Soda in Its Various Forms," and "Philadelphia Quartz Company" apart from the mark shown in the drawing.
Particular description of goods.—Sodium Silicate.
Claims use since on or about Jan. 10, 1922.

Ser. No. 158,900. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SWARTZ BROTHERS, Chicago, Ill. Filed Feb. 4, 1922.

SWARTZ
INTIRE
BRAND

No claim is made for the word "Brand" apart from the mark shown.
Particular description of goods.—Automobile and Cycle Tire Boots and Patches and Patching Material for Rubber Tires Other Than Tire Tape and Adhesive Gum.
Claims use since Dec. 15, 1921.

Ser. No. 159,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMILY R. WEISBERG, doing business as Evol Chemical Company, New York, N. Y. Filed Feb. 7, 1922.

APHRODENE

Particular description of goods.—Medicine for the Treatment of Impotence and Frigidity.
Claims use since Feb. 1, 1922.

Ser. No. 159,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELIC A. HOFFMAN, doing business as E. A. Hoffman Candy Co., also as Hoffman's, Los Angeles, Calif. Filed Feb. 8, 1922.

Hoffman's

Particular description of goods.—Candy and Chocolates in Boxes and Bulk.
Claims use since Mar. 1, 1921.

Ser. No. 159,118. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

SALTEXTILE
SILK SEAL

No claim is made to the exclusive right to the use of the words "Silk Seal" apart from the mark shown. The mark consists of the words "Saltextile Silk Seal."
Particular description of goods.—Pile fabrics in the Piece.
Claims use since Jan. 4, 1922.

Ser. No. 159,176. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEOPLE'S FUEL & SUPPLY CO., Chicago, Ill. Filed Feb. 10, 1922.

People's

Particular description of goods.—Ice Cream.
Claims use since Mar. 20, 1921.

Ser. No. 160,312. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

De BEAUTE VOILE

No claim being made to the word "Voile" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 14, 1921.

Ser. No. 160,318. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 7, 1922.

Voil-Art

Particular description of goods.—Cotton Piece Goods Containing Silk Stripe.
Claims use since Feb. 14, 1921.

Ser. No. 160,335. (CLASS 43. THREAD AND YARN.) THE BARBOUR BROTHERS CO., Paterson, N. J. Filed Mar. 8, 1922.

LION
SHOE THREAD
ONE 10 H.B. POUND

No claim made to the exclusive use of the words, character, and abbreviation "Shoe Thread One Pound 10 H. B." apart from the mark as shown in the drawing.
Particular description of goods.—Shoe Thread.
Claims use since 1877.

Ser. No. 160,978. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SAFETY CAR HEATING AND LIGHTING COMPANY, Orange, N. J., and New Haven, Conn. Filed Mar. 20, 1922.

Particular description of goods.—Electric-Lighting Systems for Use on Railroad Passenger Cars, Electric Fans for Use on Railroad Passenger Cars and Other Purposes, Electric Water Coolers, and Electric Storage Batteries.
Claims use since August, 1920.

Ser. No. 161,652. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SCHMIDT-HOLLAND INC., New York, N. Y. Filed Apr. 1, 1922.

Particular description of goods.—Gut and Metal Strings for Stringed Musical Instruments.
Claims use since July 1, 1921.

Ser. No. 162,199. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RESPRO INC., Providence, R. I. Filed Apr. 12, 1922.

"Voltape"

Particular description of goods.—Electrical Insulating Material of Unwoven Fabric Impregnated with an Adhesive Substance.
Claims use since Sept. 15, 1920.

Ser. No. 162,397. (CLASS 39. CLOTHING.) FOREST CITY MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 17, 1922.

Forest Maid

Particular description of goods.—Ladies' and Misses' Aprons and House Dresses.
Claims use since Mar. 12, 1919.

Ser. No. 162,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH COORS COMPANY, Golden, Colo. Filed Apr. 21, 1922.

SKIMMILK CRYSTALS

Applicant disclaims "Skimmilk" except in the particular relationship shown.
Particular description of goods.—Dried or Desiccated Milk.
Claims use since about November, 1920.

Ser. No. 162,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AXEL U. STERNLOF, Worcester, Mass. Filed Apr. 22, 1922.

Vel-vo-let

Particular description of goods.—Cold Cream Having Vanishing Qualities.
Claims use since Apr. 15, 1922.

Ser. No. 162,917. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. COARI, doing business as Coari Peanut Products Co., Chicago, Ill. Filed Apr. 26, 1922.



Particular description of goods.—Peanuts and All Kinds of Nut Meats and Nut Products.
Claims use since Mar. 1, 1919.

Ser. No. 162,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. H. FROMM, doing business as F. H. Fromm & Co., Philadelphia, Pa. Filed Apr. 26, 1922.

HARMONY

Particular description of goods.—Sardines Packed in Oil.
Claims use since 1913.

Ser. No. 163,160. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE WILLS AND SONS, LTD., London, England, and San Francisco, Calif. Filed May 1, 1922.

Universal Turps

Applicant disclaims the exclusive right to use the word "Turps" apart from the mark as shown. The lining on the monogram forming part of the trade-mark is for the purpose of shading only.
Particular description of goods.—Turpentine Substitute.
Claims use since Feb. 26, 1919.

Ser. No. 164,694. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CAMEL DRY STORAGE BATTERY CO., Dallas, Tex. Filed May 31, 1922.



Particular description of goods.—Storage Batteries.
Claims use since Dec. 1, 1921.

Ser. No. 166,036. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RAYMOND BOYAKIN, Salt Lake City, Utah. Filed June 26, 1922.

Boyakin's "VELVETEEN"

No claim made to the word "Boyakin's," apart from the mark shown in the drawing.
Particular description of goods.—Auto and Furniture Cleaner.
Claims use since Mar. 2, 1917.

Ser. No. 166,326. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STANDARD MEDICAL SOCIETY, INC., Baltimore, Md. Filed June 30, 1922.

"A.B.C.D."

Particular description of goods.—Tablets for Colds, Coughs, La Grippe, Headache, and Neuralgia.
Claims use since January, 1906.

Ser. No. 166,459. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ELI LILLY AND COMPANY, Indianapolis, Ind. Filed July 3, 1922. Under section 9 of the act of Mar. 19, 1920.

Lilly

Particular description of goods.—Soap.
Claims use since Feb. 19, 1921.

Ser. No. 166,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES FOLTZER, doing business as French Swiss Noodle Company, Cincinnati, Ohio. Filed July 5, 1922.



The picture of the girl shown in the drawing and on the specimens is fanciful and not a living person.
Particular description of goods.—Noodles.
Claims use since May 1, 1922.

Ser. No. 166,683. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GUEST, KEEN & NETTLEFOLDS LIMITED, Smethwick, England. Filed July 10, 1922.

NETTLEFOLDS.

Trade-mark consists of the word "Nettlefolds."
Particular description of goods.—Wood Screws, Metal-Thread Screws, Nuts, Band Fasteners, Bolts, Rivets, Nails, Laying-In Shanks, Metal Washers, Coach Screws, Tire Bolts, Tire Nuts, Tire Nails, Carriage Bolts and Nuts, Gas Hooks and Eyes, Guide Hooks, Vine Eyes, Screw Rings, Cotter Pins, S Hooks, Hat and Coat Hooks, Tacks, Brads, Hook Bolts, Brass Screw Cups, Bedstead Studs, Lock Studs, Cricket Spikes, Straining Eyes and Cages, Wire Staples, Panel Pins, Gas Hooks, and Pig Rings.
Claims use since 1872.

Ser. No. 166,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT W. SISK & SON, Preston, Md. Filed July 10, 1922.

BEECH-WOOD

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 167,229. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, Jersey City, N. J. Filed July 22, 1922.

de Forest

Trade-mark is a portion of the facsimile signature of Lee de Forest.
Particular description of goods.—Radio Telephone and Telegraph Apparatus—Namely, Aerials, Binding Posts, Coil Mountings, Coil Supports, Coil Plugs, Switches, Microphones, Amplifiers, Condensers, Detectors, Dials, Dry Cells, Knobs, Oscillators, Potentiometers, Inductance Coils, Radio Receiving Sets, Radio Transmitting Sets, Rheostats, Storage Batteries, Resistances, Transformers, Telephone Receivers, Telephone Jacks, Telephone Plugs, Vacuum-Tube Receivers, Tuners, Thermionic Vacuum Tubes.
Claims use since 1913.

Ser. No. 167,529. (CLASS 38. PRINTS AND PUBLICATIONS.) MERCHANTS PUBLISHING COMPANY, doing business as Kalasign Company of America, Kalamazoo, Mich. Filed July 28, 1922.

KALASIGNS

No claim made to the word "Signs," apart from the mark shown.
Particular description of goods.—Advertising Cards and Placards Used for Window Displays and Similar Purposes.
Claims use since October, 1919.

Ser. No. 167,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. E. A. BLAKE, doing business as Austin Manufacturing Co., Detroit, Mich. Filed Aug. 4, 1922.

World's Wonder

Particular description of goods.—Preparation for Use in the Treatment of Hair and Scalp.
Claims use since 1912.

Ser. No. 168,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN J. M. CARAMETOS, doing business as E. B. Candy Co., Chicago, Ill. Filed Aug. 21, 1922.



No claim is made to the phrase "Genuine Turkish Bar 5¢" or to the word "Halva" apart from the mark as shown. The lining on the drawing is intended to represent the color yellow.

Particular description of goods.—Candy Bars.

Claims use since Aug. 5, 1922.

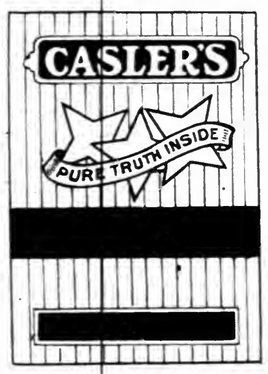
Ser. No. 168,732. (CLASS 27. HOROLOGICAL INSTRUMENTS.) CHAS. SCHWARTZ & SON, Washington, D. C. Filed Aug. 26, 1922.

TIME—PILOT

Particular description of goods.—Watch Movements.

Claims use since June 15, 1922.

Ser. No. 168,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED M. CASLER, Los Angeles, Calif. Filed Aug. 28, 1922.



Particular description of goods.—Mayonnaise, Catchup, Thousand Island Dressing, Marshmallow Cream, Sirup for Food-Flavoring Purposes, Crème de Menthe Flavoring for Food Purposes, Horse-Radish, Tartar Sauce, Salad Dressing, and Chili Sauce.

Claims use since May 1, 1922.

Ser. No. 168,919. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONNAUGHT ANTITOXIN LABORATORIES, UNIVERSITY OF TORONTO, Toronto, Ontario, Canada. Filed Aug. 31, 1922.

INSULIN

Particular description of goods.—A Substance Which Will Effect the Combustion of the Carbohydrates in the Animal Body and Remove the Cardinal Objective Symptoms of Diabetes Mellitus.

Claims use since June 30, 1922.

Ser. No. 169,080. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Sept. 5, 1922.

PARAMOUNT

Particular description of goods.—Canned Fruits.

Claims use since April, 1917.

Ser. No. 169,249. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. L. HULBURT, doing business as Jely-Rite Fruit Company, San Jose, Calif. Filed Sept. 9, 1922.

JELY-RITE

Particular description of goods.—Concentrated Fruit Pectin or Pectinized Fruit Juices or Compounds of Fruit, Meaning Juices or Fruits, Fruit Preserves, Jellies, Jams, Marmalades, or Other Congealed Fruit Mixtures, Containing Added Pectin or Concentrated Pectin to form Heavy Jellylike Fruit Preparation.

Claims use since July 29, 1922.

Ser. No. 169,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM G. ROBBINS, doing business as Webber Chemical Co., Los Angeles, Calif. Filed Sept. 9, 1922.

KICK-OLA

Particular description of goods.—Compound Sirups, Compound Extract of Coca Leaves and Kola Nuts.

Claims use since July 19, 1922.

Ser. No. 169,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSWALD SEIFERT, Salt Lake City, Utah. Filed Sept. 12, 1922.

CAROFERT

Particular description of goods.—Blood Purifiers, Stomach Tonic, Cough Sirup; Liniment for Rheumatism, Neuralgia, Sprains, etc.; Pills for Nervous Complaint and Constipation, Healing Salve, Toilet Cream, Mouth Wash, Tooth Paste, Hair Balm, and Cleansing Cream.

Claims use since Sept. 17, 1915.

Ser. No. 169,917. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NIAGARA ALKALI COMPANY, Niagara Falls, N. Y. Filed Sept. 25, 1922.



No claim made to the words "Niagara Flake Lye" for the purposes of the present registration, applicant, however, reserving its common law right thereto. The drawing is not lined to represent color, the lines merely being used for shading.

Particular description of goods.—Flake Lye Used as Detergent.

Claims use since Aug. 3, 1922.

Ser. No. 169,949. (CLASS 39. CLOTHING.) BENNIE COHN, Los Angeles, Calif. Filed Sept. 26, 1922.

BENCO

Particular description of goods.—Hosiery, Suspenders, Garters, Arm Bands; Underwear of Knitted and Textile Fabrics for Men, Women, and Children; Work Shirts; Belts and Gloves of Leather, Fabric, and of Leather and Fabric Combined.

Claims use since Jan. 1, 1915.

Ser. No. 170,196. (CLASS 39. CLOTHING.) THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo. Filed Oct. 2, 1922.

KATZENJAMMER KIDS

Particular description of goods.—Boots and Shoes of Kid, Canvas, and Leather.

Claims use since about Jan. 2, 1917.

Ser. No. 170,198. (CLASS 39. CLOTHING.) THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo. Filed Oct. 2, 1922.

COOLFUT

Particular description of goods. Boots and Shoes of Kid, Canvas, and Leather.

Claims use since about Jan. 2, 1917.

Ser. No. 170,199. (CLASS 39. CLOTHING.) THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo. Filed Oct. 2, 1922.



Particular description of goods.—Boots and Shoes of Kid, Canvas, and Leather.

Claims use since about Jan. 2, 1917.

Ser. No. 170,209. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WILLIAM CHANDLER PEAK, Chicago, Ill. Filed Oct. 2, 1922.

Fōno-tell

Particular description of goods.—Phonograph Records.

Claims use since Sept. 11, 1922.

Ser. No. 170,307. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) "3 W" POWDER COMPANY, Los Angeles, Calif. Filed Oct. 4, 1922.

"3W"

We claim particularly, the mark "3 W" irrespective or independently of the quotation marks shown in the drawing, or any other device or devices.

Particular description of goods.—Washing Powder.

Claims use since Feb. 1, 1922.

Ser. No. 170,431. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Oct. 7, 1922.

PROM

Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pyjamas, Dress Shirts, Undershirts, Nightshirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Sack Suits, Trousers, Hats, and Caps Made Out of Textile Material; and Gloves, Sweaters, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats, and Caps Made out of Knitted Material; and Women's, Girls', and Misses' Furnishings, Undergarments and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Neckties, Scarfs, Cravats, Collars, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Neckties, Scarfs, Cravats, Collars, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material; and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees, Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Materials.

Claims use since Mar. 1, 1921.

Ser. No. 170,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE CO., Cambridge, Mass. Filed Oct. 11, 1922.

PEANUT BUTTER SMACKS

Applicant hereby disclaims the words "Peanut Butter" apart from the mark as shown.

Particular description of goods.—Candy.

Claims use since 1903.

Ser. No. 170,589. (CLASS 39. CLOTHING.) MAY HOSIERY MILLS, INCORPORATED, Burlington, N. C. Filed Oct. 11, 1922.

GREENBACK

Particular description of goods.—Hosiery, Underwear of Knitted or Textile Fabric for Men, Women, and Children, and Outer Garments Consisting of Dresses, Skirts, and Sweaters.

Claims use since 1910.

Ser. No. 170,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. FOX, Hancock, Mich. Filed Oct. 12, 1922.

JOHN J. FOX'S



EXTOL

Particular description of goods.—Hair Tonic.

Claims use since July 25, 1922.

Ser. No. 170,748. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE BARBER ASPHALT COMPANY, Philadelphia, Pa. Filed Oct. 16, 1922.

IROQUOIS

Particular description of goods.—Fire Wagons, Surface Heaters, Stationary Melting Kettles, and Portable Melting Kettles.

Claims use since July 1, 1904.

Ser. No. 170,806. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BROOKS, San Francisco, Calif. Filed Oct. 17, 1922.



Particular description of goods.—Meat Pies, Meat Dumplings, and Foods Having a Meat Filler and Cover Made from Flour or Any Cereal.

Claims use since about Jan. 7, 1922.

Ser. No. 170,887. (CLASS 39. CLOTHING.) KENILWORTH MANUFACTURING CO. INC., New York, N. Y. Filed Oct. 18, 1922.

Athletic-Knicks

No claim made to the word "Knicks" per se.

Particular description of goods.—Knickerbockers or Bloomers to be Worn as Outer Garments or Undergarments.

Claims use since Sept. 21, 1922.

Ser. No. 171,112. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR C. WATSON, doing business as Nancy Hubbard Company, Los Angeles, Calif. Filed Oct. 23, 1922.

Nancy Hubbard

Cupboard
CANDIES

No claim is made to the words "Nancy Hubbard" and "Candies" apart from the mark as shown in the drawing.

Particular description of goods.—Confections—Namely, Candy.

Claims use since Nov. 20, 1921.

Ser. No. 171,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIKE GEORGE PETRICH, Cleveland, Ohio. Filed Oct. 25, 1922.

Petricin



The portrait shown in the accompanying drawing is that of the applicant.

Particular description of goods.—Preparation for the Treatment of Cancer.

Claims use since May, 1922.

Ser. No. 171,270. (CLASS 39. CLOTHING.) W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif. Filed Oct. 27, 1922.



Particular description of goods.—Hosiery and Men's Knitted and Textile Fabric Underwear.

Claims use since about 1902.

Ser. No. 171,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGS COUNTY PACKING CO., Armona, Calif. Filed Oct. 28, 1922.

KING-KO

Particular description of goods.—Canned and Preserved Figs, Canned Fruits, and Canned Vegetables.

Claims use since 1916.

Ser. No. 171,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGS COUNTY PACKING CO., Armona, Calif. Filed Oct. 28, 1922.

KINGS CHOICE

Particular description of goods.—Canned Fruits.

Claims use since 1916.

Ser. No. 171,331. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KLEIN-MESSNER CO., INC., New York, N. Y. Filed Oct. 28, 1922.



No claim made to the exclusive use of the word "Fabrics" apart from the mark as shown on the drawing.

Particular description of goods.—Cotton Piece Goods.

Claims use since July 31, 1922.

Ser. No. 171,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATASCADERO FRUIT EXCHANGE, Atascadero, Calif. Filed Oct. 28, 1922.

Pine Mountain

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 1, 1922.

Ser. No. 171,490. (CLASS 39. CLOTHING.) EAGLE SKIRT COMPANY, New York, N. Y. Filed Nov. 2, 1922.

"Kumfort"

Particular description of goods.—Women's Bloomers, Pantalets, and Petticoats.
Claims use since Aug. 15, 1922.

Ser. No. 171,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARRETT AND SWANK, North Manchester, Ind. Filed Nov. 3, 1922.

P and S

Particular description of goods.—Compound for the Treatment of Cancers.
Claims use since Oct. 1, 1920.

Ser. No. 171,552. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM EMMETT ROCHE, doing business as The Roche Fruit and Produce Co., Yakima, Wash. Filed Nov. 3, 1922.

YAK

Particular description of goods.—Fresh Apples.
Claims use since Sept. 24, 1922.

Ser. No. 171,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VALENTINO BALDACCI, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy. Filed Nov. 7, 1922.

AGLICOLO

Particular description of goods.—Pharmaceutical Preparations Used as Medicines for the Treatment of Diabetes, Glycosuria, and Similar Diseases.
Claims use since Sept. 28, 1921.

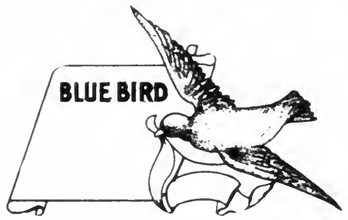
Ser. No. 171,710. (CLASS 39. CLOTHING.) SHAMROCK OVERALL MFG. CO., Louisville, Ky. Filed Nov. 7, 1922.

SHAMROCK



Particular description of goods.—Overalls.
Claims use since 1915.

Ser. No. 171,779. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLUE BIRD INC. PERFUMERS, New York, N. Y. Filed Nov. 1, 1922.



No claim made for the words "It Draws" and "Mud Pack."
Particular description of goods.—Cold Creams, Vanishing Creams, Depilatories, Hair Growers, Hair Tonics, Hair Dyes, Hair Color Restorers, Hair Dressings, Eyelash and Eyebrow Preparations, Skin Astringents; Face, Hand, and Foot Lotions; Face Powders, Talcum Powders, Perfumes, Toilet Waters, Bath Salts, Rouges for Face and Lips, Shampoos, Sachets; Mud Pack, Lemon Pack, and Similar Face Packs; Finger-Nail Polishes; Cuticle Creams, Cuticle Removers, and Cuticle Lotions; Finger-Nail-Polish Removers, Scalp Ointments.
Claims use since September, 1915.

Ser. No. 171,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & CO., Evansville, Ind. Filed Nov. 13, 1922.

DEXTRO MALTO de MEAD

Particular description of goods.—Specially-Prepared Food for Infants.
Claims use since 1910.

Ser. No. 171,989. (CLASS 39. CLOTHING.) FAY HOSIERY MILLS, INCORPORATED, Philadelphia, Pa. Filed Nov. 14, 1922.



Particular description of goods.—Hosiery.
Claims use since Oct. 25, 1922.

Ser. No. 171,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NACHEM JAKOBS, doing business as Netherlands Haarlem Oil Manufacturing Company, Philadelphia, Pa. Filed Nov. 14, 1922.



The words "Laboratories, Haarlem, Holland, Sole Manufacturers of The Original Gold Medal Brand, Genuine Haarlem Imported, Haarlem Oil Capsules, Trade-Mark Reg. U. S. Pat. Off. Sole U. S. Distributors, Philadelphia, Pa.," and "None Genuine without the Signature of," are disclaimed apart from the mark shown.
Particular description of goods.—Medicinal Oil for Treatment of Kidney, Liver, Bladder, Rheumatism, and Uric-Acid Troubles.
Claims use since on or about Nov. 1, 1922.

Ser. No. 172,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENTLEY & TWOHEY SILK CO., Newton, N. J., and New York, N. Y. Filed Nov. 18, 1922.

"Kordelaine"

Particular description of goods.—Silk Piece Goods and Artificial-Silk, Cotton, Wool, and Worsted Piece Goods and Combinations Thereof.
Claims use since May 16, 1922.

Ser. No. 172,397. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DAVID I. SALOMON, doing business as David I. Salomon Silk Co., New York, N. Y. Filed Nov. 22, 1922.



No claim made to the word "Silks" apart from the mark shown on the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Nov. 1, 1922.

Ser. No. 172,878. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 4, 1922.

Battleship



Particular description of goods.—Baking Powder, Bluing, Lye, and Laundry Starch.
Claims use since 1902 on baking powder; since 1913 on bluing; since 1913 on lye; since 1906 on laundry starch.

Ser. No. No. 172,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAPELL SALT COMPANY, Salt Lake City, Utah. Filed Dec. 6, 1922.

CARNATION

Trade-mark consists of the word "Carnation."
Particular description of goods.—Salt (Sodium Chloride).
Claims use since Dec. 31, 1916.

Ser. No. 173,103. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, INC., New York, N. Y. Filed Dec. 8, 1922.

ANGELUS

Particular description of goods.—Rouge, Powder, and Rouge Compacts, Brilliantines, Nail Polish, Face Powders, Toilet Waters, Massage Creams, Cold Creams, Face and Hand Lotions, Lip Sticks, Perfumery, Tooth Pastes, and Face Pastes.
Claims use since 1913.

Ser. No. 173,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD VAN ERP, Oakland, Calif. Filed Dec. 9, 1922.



Particular description of goods.—Horse-Radish and Mustard, Jellies, Jams, Cranberry Sauce, Oyster-Cocktail Sauce, Apple-Cider Vinegar, Honey, Prepared Mustard, Distilled Vinegar, Mayonnaise, Salad Oil, Chili Sauce, Orange Marmalade, Horse-Radish, and White Vinegar.
Claims use since Aug. 1, 1922.

Ser. No. 173,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARK & TILFORD, New York, N. Y. Filed Dec. 12, 1922.

PARK & TILFORD

Particular description of goods.—Cream of Tartar.
Claims use since Sept. 1, 1921.

Ser. No. 173,331. (CLASS 38. PRINTS AND PUBLICATIONS.) KAUFMAN-CLIFFORD, INC., Chicago, Ill. Filed Dec. 14, 1922.

Health and Beauty

Particular description of goods.—Magazines Published Monthly.
Claims use since Aug. 9, 1922.

Ser. No. 173,351. (CLASS 39. CLOTHING.) EARLE TEXTILE COMPANY, Morgantown, N. C. Filed Dec. 15, 1922.



Earle Bird Hosiery

No claim is made to the word "Hosiery" apart from that shown in the accompanying drawing.
Particular description of goods.—Hosiery.
Claims use since May, 1922

Ser. No. 173,395. (CLASS 39. CLOTHING.) BEN LEVENE INC., New York, N. Y. Filed Dec. 16, 1922.



No claim made to the exclusive use of the word "Hosiery" apart from the mark as shown on the drawing.
Particular description of goods.—Ladies' Hosiery of Silk, Cotton, and Combination of Silk and Cotton.
Claims use since Jan. 10, 1922.

Ser. No. 173,416. (CLASS 39. CLOTHING.) SAMUEL GOODMAN, Baltimore, Md. Filed Dec. 16, 1922.

Robin Hood Clothes

No claim made to the word "Clothes" apart from the mark shown.
Particular description of goods.—Suits of Wash Materials and Woolen Materials.
Claims use since Dec. 7, 1922.

Ser. No. 173,449. (CLASS 39. CLOTHING.) THE L. D. STICKLES SHOE CO., Red Wing, Minn. Filed Dec. 16, 1922.

Outdoor Girl

Particular description of goods.—Shoes Made of Leather, Fabric, Rubber, and Combination of Said Materials.
Claims use since October, 1922.

Ser. No. 173,498. (CLASS 39. CLOTHING.) MADAME IRENE, New York, N. Y. Filed Dec. 18, 1922.

Irènette

Color is no particular feature of the mark, the lining being for purposes of shading only.
Particular description of goods.—Brassières and Women's Knitted and Textile Underwear.
Claims use since Aug. 15, 1922.

Ser. No. 173,503. (CLASS 38. PRINTS AND PUBLICATIONS.) LEVEY PRINTING COMPANY, Indianapolis, Ind. Filed Dec. 18, 1922.

THE SHIELD

Particular description of goods.—Periodical Magazine Relating to the Production and Sale of Printed Matter, Stationery, Office and Bank Supplies, and Furniture.
Claims use since January, 1910.

Ser. No. 173,564. (CLASS 39. CLOTHING.) LOUIS N. COHEN & CO., INC., New York, N. Y. Filed Dec. 19, 1922.

Duble-Duti

Particular description of goods.—Raincoats and Rainproof Men's and Children's Clothing—Namely, Overcoats, Coats, Vests, and Trousers.
Claims use since Nov. 25, 1922.

Ser. No. 173,702. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SAMUEL ESHBORN, New York, N. Y. Filed Dec. 22, 1922.



No claim is made to the exclusive use of the words "The House of Quality and Service" and "65 Fifth Ave., New York" apart from the mark as shown in the drawing.
Particular description of goods.—Phonographs and Phonograph Accessories—Namely, Talking Machine Needles, Attachments on Tone Arms Consisting of Producers and Reproducers, Spring Barrels for Phonographs, Turntables for Phonographs, and Wool Felts Cut to Fit the Turntables.
Claims use since Dec. 1, 1922.

Ser. No. 173,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ICY HUNNI CO., Milwaukee, Wis. Filed Dec. 22, 1922.



Particular description of goods.—Confectionery—Namely, Ice Cream or Other Frozen Dainties.
Claims use since Oct. 15, 1922.

Ser. No. 173,724. (CLASS 39. CLOTHING.) RHODES & RIPLEY CLOTHING COMPANY, Boston, Mass. Filed Dec. 22, 1922.

CETERBLO

Particular description of goods.—Overcoats for Men, Women, and Children.
Claims use since Aug. 1, 1922.

Ser. No. 173,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISIDORE ROCHON, Fall River, Mass. Filed Dec. 22, 1922.



ISIDORE ROCHON

The portrait shown in the accompanying drawing is that of the applicant.
Particular description of goods.—Salve for Piles, Burns, and Open Sores.
Claims use since Dec. 1, 1921.

Ser. No. 173,733. (CLASS 39. CLOTHING.) STANDARD OILED CLOTHING CO., New York, N. Y. Filed Dec. 22, 1922.

STANDARD STUDENT

Particular description of goods.—Raincoats and Rain Articles—Namely, Suits, Coats, Overalls, Aprons, Jackets, Caps, Slickers, Capes, Ponchos, and Leggings Made of Either Waterproof Oiled Cloth, Rubberized-Surface Cloth, or Cravenette-Proofed Cloth, and Also Overcoats Made of Woolen Material, Sheepskin Coats, and Mackinaws.
Claims use since about Nov. 1, 1922.

Ser. No. 173,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

PESTEDO

Particular description of goods.—Specific Vaccine.
Claims use since Mar. 14, 1922.

Ser. No. 173,746. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

MELEDO

Particular description of goods.—Specific Vaccine.
Claims use since Mar. 14, 1922.

Ser. No. 173,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

DYSEDO

Particular description of goods.—Specific Vaccine.
Claims use since Mar. 14, 1922.

Ser. No. 173,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

RUBYL

Particular description of goods.—Double Iodide of Quinine and Bismuth.
Claims use since July 7, 1922.

Ser. No. 173,749. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

TABEDO

Particular description of goods.—Specific Vaccine.
Claims use since Mar. 14, 1922.

Ser. No. 173,750. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

CHOLEDO

Particular description of goods.—Specific Vaccine.
Claims use since Mar. 14, 1922.

Ser. No. 173,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

GELO DISQUES

Particular description of goods.—Barium Sulphate.
Claims use since Mar. 14, 1922.

Ser. No. 173,762. (CLASS 39. CLOTHING.) FEDERAL KNITTING COMPANY, INC., Philadelphia, Pa. Filed Dec. 23, 1922.

Flint-Wear

Particular description of goods.—Men's, Women's, and Children's Silk and Cotton Hosiery, Both Full Fashioned and Seamless, Also Men's Crochet and Knitted Neckwear, Such as Neckties, Scarfs, and Cravats.
Claims use since Nov. 22, 1922.

Ser. No. 173,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM GASH, New York, N. Y. Filed Dec. 26, 1922.



THE ITALIAN COOK

The exclusive use of the word "Oil" appearing on the drawing is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Winter-Pressed Cottonseed Salad Oil Flavored with Pure Olive Oil.
Claims use since about 1907.

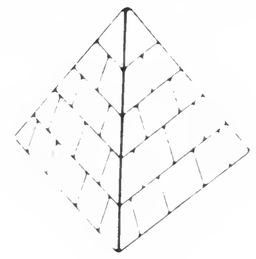
Ser. No. 173,875. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, a Corporation of New York. Filed Dec. 27, 1922.

1930 Made 1930

Particular description of goods.—Perfume, Toilet Water, Rouges, Face Powder, Talcum Powder, Brilliantine, Sachet Powder, and Dentifrices.
Claims use since Dec. 1, 1913.

Ser. No. 174,092. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MICHIGAN STATE AUTO SCHOOL, INC., Detroit, Mich. Filed Jan. 2, 1923.

PYRAMID



Particular description of goods.—Electric Batteries.
Claims use since Nov. 1, 1921.

Ser. No. 174,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL PETRICH, doing business as Coronado Fish Co., San Diego, Calif. Filed Jan. 3, 1923.

Emma Gann

Particular description of goods.—Canned Fish.
Claims use since July, 1922.

Ser. No. 174,361. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ESKILSTUNA STÅLPRESSNINGS AKTIEBOLAG, Eskilstuna, Sweden. Filed Jan. 9, 1923.

JANUS

Particular description of goods.—Metal Lamp Shades.
Claims use since Nov. 30, 1922.

Ser. No. 174,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YARDLEY & CO., LIMITED, London, England. Filed Jan. 9, 1923.



No claim is made to the word "Freesia" and "8 New Bond St. London" apart from the mark shown.

Particular description of goods.—Bath-Salt Tablets, Toilet Water, Hair Lotion, Complexion Cream, Perfume, Sachet, Face Powder, Brilliantine, Bath-Salt Crystals, and Talcum Powder.

Claims use since December, 1919.

Ser. No. 174,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN OSMAN, Atlanta, Ga. Filed Jan. 10, 1923.

DR. OSMAN'S NATUROLA

Particular description of goods.—Intestinal Regulator.

Claims use since Jan. 1, 1922.

Ser. No. 174,451. (CLASS 37. PAPER AND STATIONERY.) INGERSOLL REDIPOINT COMPANY, INC., New York, N. Y. Filed Jan. 11, 1923.

Redipoint Ingersoll

Particular description of goods.—Pencils, Pens, Leads, and Erasers.

Claims use since on or about Apr. 1, 1922.

Ser. No. 174,459. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y. Filed Jan. 11, 1923.

"AMIRAL"

Particular description of goods.—Reducing Soap.

Claims use since Aug. 8, 1916.

Ser. No. 174,532. (CLASS 30. CLOTHING.) BIRDSEY SOMERS COMPANY, New York, N. Y. Filed Jan. 12, 1923.

TyMe

Particular description of goods.—Brassières.

Claims use since Dec. 1, 1922.

Ser. No. 174,556. (CLASS 37. PAPER AND STATIONERY.) THE CINCINNATI CORDAGE & PAPER CO., Cincinnati, Ohio. Filed Jan. 13, 1923.

MONOGRAM

No claim made to the word "Monogram" apart from the mark shown.

Particular description of goods.—Writing Paper (Monogram Linen).

Claims use since 1901.

Ser. No. 174,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHALL & MULLER, Lodi, Calif. Filed Jan. 13, 1923.

CRESCENT

Particular description of goods.—Fresh Deciduous Fruits and Grapes in Their Natural State.

Claims use since 1921.

Ser. No. 174,589. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PARFUMERIE ROGER ET GALLET, Paris, France. Filed Jan. 13, 1923.

VERA-VIOLETTA

Particular description of goods.—Soaps, Soap Pastes, and Soap Powders.

Claims use since May, 1892.

Ser. No. 174,590. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed Jan. 13, 1923. Under ten-year proviso.

VERA-VIOLETTA

Particular description of goods.—Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair, and Perfumery.

Claims use since May, 1892.

Ser. No. 174,638. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE RAGBAG SISTERS COMPANY, Grand Rapids, Mich. Filed Jan. 15, 1923.



The words "Art Novelties" are disclaimed apart from the other features of the mark.

Particular description of goods.—Statuettes.

Claims use since Nov. 12, 1922.

Ser. No. 174,661. (CLASS 12. CONSTRUCTION MATERIALS.) WILLIAM L. KANN, Pittsburgh, Pa. Filed Jan. 16, 1923.

RAKUDA

Particular description of goods.—Lumber, Both Finished and Unfinished.

Claims use since July, 1920.

Ser. No. 174,663. (CLASS 39. CLOTHING.) KASSMAN & KESSNER INC., New York, N. Y. Filed Jan. 16, 1923.

Fashion Park

Particular description of goods.—Men's Hats and Caps.

Claims use since Sept. 15, 1922.

Ser. No. 174,750. (CLASS 39. CLOTHING.) RALPH S. PHILIPS, New York, N. Y. Filed Jan. 18, 1923.



No exclusive rights are claimed in the words "Silk Undies" appearing on the drawing apart from the mark as shown.

Particular description of goods.—Underwear of Textile Material for Women and Girls—Namely, Silk Gowns, Bodices, Bloomers, and Chemises.

Claims use since about July 7, 1922.

Ser. No. 174,764. (CLASS 39. CLOTHING.) BARRIST & CO., Philadelphia, Pa. Filed Jan. 19, 1923.

Sportabout

Particular description of goods.—Women's, Misses' and Children's Coats, Skirts, and Suits.

Claims use since Dec. 21, 1922.

Ser. No. 174,784. (CLASS 39. CLOTHING.) INTERNATIONAL CORSET COMPANY, Aurora, Ill. Filed Jan. 19, 1923.

Super-all

Particular description of goods.—Combination Corsets and Brassières.

Claims use since Dec. 1, 1922.

Ser. No. 174,785. (CLASS 39. CLOTHING.) INTERNATIONAL CORSET COMPANY, Aurora, Ill. Filed Jan. 19, 1923.



Particular description of goods.—Corsets, Brassières and Combination Corsets and Brassières.

Claims use since June 30, 1919.

Ser. No. 174,789. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACKSON D. LEE, Wyncote, Pa. Filed Jan. 19, 1923.

BROMO-FOAM

Particular description of goods.—Powders and Tablets Used in Dry Form or Dissolved in Water in Aid of Digestion and to Relieve Neuralgia, Headache, and the Like.

Claims use since 1910.

Ser. No. 174,799. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RED-O-LED PLASTER CO., Morgantown, W. Va. Filed Jan. 19, 1923.

RED-O-LED
DRAWING PLASTER

No claim made to the words "Drawing Plaster" apart from the mark shown.

Particular description of goods.—Drawing Plaster.

Claims use since Jan. 1, 1922.

Ser. No. 174,999. (CLASS 39. CLOTHING.) DOROTHY BICKUM, New York, N. Y. Filed Jan. 24, 1923.

Dorothea

Particular description of goods.—Brassières.
Claims use since August, 1922.

Ser. No. 175,053. (CLASS 39. CLOTHING.) D. BALLANTYNE BROTHERS & COMPANY, LIMITED, Peebles, Scotland. Filed Jan. 25, 1923.

BELLENDEN

Particular description of goods.—Knitted Wear for Ladies, Gentlemen, and Children, as follows: Coats, Jackets, Waistcoats, Sweaters, Knicker Hose, Scarfs, Hose, Stockings, Gloves, Vests, Shirts, Union Suits, Drawers, Undershirts, Pants, Caps, Dresses, Dressing Gowns, Petticoats, Jerseys, Gnernseys, Jumpers, and Cardigans.
Claims use since Aug. 10, 1922.

Ser. No. 175,076. (CLASS 39. CLOTHING.) JOHN S. ELLIS, doing business as Shirland Knitting Mills, Philadelphia, Pa. Filed Jan. 25, 1923.

Shirland

Particular description of goods.—Knitted Coats, Jackets, and Sweaters.
Claims use since about January, 1910.

Ser. No. 175,091. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LYRADION MANUFACTURING COMPANY, Mishawaka, Ind. Filed Jan. 25, 1923.

Lyradion

Particular description of goods.—Radio Receiving Sets, Loud Speakers, Batteries, Amplifying Horns, Selector Units Consisting of a Coupler, Condenser and Switch, Radiofrequency Amplifiers, Audiofrequency Amplifiers, Switches, Couplers, Condensers, Audiofrequency Transformers, and Radiofrequency Transformers; Also Radio Receiving Sets, Both Single and in Combination with Phonographs in Consoles, Cabinets, and Concert Grand Cabinets.
Claims use since about March, 1922.

Ser. No. 175,145. (CLASS 39. CLOTHING.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Jan. 26, 1923.

Clincher

Particular description of goods.—Rubber Boots and Rubber Shoes.
Claims use since 1905.

Ser. No. 175,149. (CLASS 39. CLOTHING.) MENGART KNITTING MILLS, New York, N. Y. Filed Jan. 26, 1923.

Mengart

Particular description of goods.—Sweaters, Dresses, Bathing Suits, Mufflers, Knitted Gloves, Stockings, Hats for Women and Children, Scarfs, Necktie, and Caps for Men.
Claims use since Sept. 1, 1919.

Ser. No. 175,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SURPASS CHEMICAL CO. INC., Albany, N. Y. Filed Jan. 26, 1923.

SURCHEMCO

Particular description of goods.—Chemical Preparation for Bleaching Material.
Claims use since Aug. 29, 1922.

Ser. No. 175,243. (CLASS 39. CLOTHING.) LOUIS HOLTZ AND SONS, INC., Rochester, N. Y. Filed Jan. 29, 1923.

RAIN OR SHINE Scotch Heather SHOWER PROOF

No claim is made to the words "Rain or Shine" and "Shower Proof" apart from the mark as illustrated.
Particular description of goods.—Dress Coats, Overcoats and Topcoats.
Claims use since Jan. 2, 1923.

Ser. No. 175,281. (CLASS 15. OILS AND GREASES.) UNITED PETROLEUM ASIATIC COMPANY, San Francisco, Calif. Filed Jan. 29, 1923.



The interpretation of the Chinese characters shown on the trade-mark is as follows: The characters at the left of the figure mean "Kerosene"; those above the peacock mean "Trade-Mark" and "Peacock"; those to the right of the figure mean "American"; and those below the peacock mean "Company" "Petroleum" "American" and "China." The characters are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Kerosene.
Claims use since Dec. 27, 1922.

Ser. No. 175,371. (CLASS 31. FILTERS AND REFRIGERATORS.) WM. REED ENGINEERING COMPANY, Louisville, Ky. Filed Jan. 31, 1923.

ADHESINE

Particular description of goods.—Oily Liquid for Impregnating the Filling Mass of Air Filters.
Claims use since Dec. 1, 1922.

Ser. No. 175,407. (CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH RICHARDS COMPANY, INC., New York, N. Y. Filed Feb. 1, 1923.

"Facts First - then Advertising"

Particular description of goods.—Printed Books and Their Component Parts Published from Time to Time.
Claims use since May, 1922.

Ser. No. 175,408. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANFORD, CHAMBERLAIN & ALBERS COMPANY, Knoxville, Tenn. Filed Feb. 1, 1923.



No claim is made to the word "Excellence."
Particular description of goods.—Salicylic Acid, Sulphate Quinine, Domestic Ammonia, Sirup of Squills, Turpentine (Medicinal), Bay Rum, Sirup Ipecac, Red Coloring (Chemical), Balsam Copaiba, Castor Oil, Sweet Spirits Niter, Hart's Headache Tablets, Hive Sirup, Tincture Ginger, Spirits of Camphor, Sweet Oil, Tincture Iodine, Paregoric, Godfrey's Cordial, Bateman Drops, Oil Cinnamon, Mineral Oil (Medicinal), British Oil (Medicinal), Glycerin, Tincture Iron, Carbolic Acid, White Pine Compound and Tar Cough Sirup, Sulphur, Epsom Salts, Hart's White Liniment.
Claims use since Jan. 1, 1896.

Ser. No. 175,472. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. DE FOREST RADIO TELEPHONE & TELEGRAPH COMPANY, Jersey City, N. J. Filed Feb. 3, 1923.

"His Daddy's Choice"

Particular description of goods.—Radio Telephone and Telegraph Receiving Sets and Transmitting Sets and Parts.
Claims use since Dec. 15, 1922.

Ser. No. 175,483. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAURA GASPARI, New York, N. Y. Filed Feb. 3, 1923.



Particular description of goods.—Deodorants.
Claims use since Oct. 18, 1922.

Ser. No. 175,610. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif. Filed Feb. 6, 1923.

CHIMES

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Nov. 1, 1921.

Ser. No. 175,627. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD CRAYON MANUFACTURING COMPANY, Danvers, Mass. Filed Feb. 6, 1923.

Anti-Itis

Particular description of goods.—Medicinal Preparation for Inflammatory, Congested and Painful Conditions Where Local Treatment is Indicated.
Claims use since June, 1901.

Ser. No. 175,631. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Feb. 6, 1923.



No claim is made for the words "N. Y.," "American Products" apart from the mark shown on the drawing.
Particular description of goods.—Chemical Compound Used as an Accelerator in the Manufacture of Rubber Products to Hasten the Curing of Rubber.
Claims use since Nov. 1, 1922.

Ser. No. 175,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COCKNUT CORPORATION, Baltimore, Md. Filed Feb. 7, 1923.

BAKWELL

Particular description of goods.—Vegetable Lard Substitute.
Claims use since October, 1922.

Ser. No. 175,657. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUYLER'S, New York, N. Y. Filed Feb. 7, 1923.

"A Token of Good Taste"

Particular description of goods.—Candy.
Claims use since Dec. 5, 1922.

Ser. No. 175,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. MCDONAGH & SONS, New York, N. Y. Filed Feb. 7, 1923.



No claim made to the exclusive use of the words "Pasta para los Dientes, Para Preservar los Dientes, Recomendamos el Uso de, al Levantarse y Retirarse, 180 Front St., Nueva York, N. Y.," and "Made in U. S. A." apart from the mark as shown on the drawing.
Particular description of goods.—Toilet Articles—viz, Tooth Paste.
Claims use since Aug. 11, 1922.

Ser. No. 175,680. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROMB IMPORTING CO., New York, N. Y. Filed Feb. 7, 1923.

BELVEDERE

The trade-mark consists of the word "Belvedere."
Particular description of goods.—Olive Oil.
Claims use since Jan. 17, 1923.

Ser. No. 175,683. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SNOW CLOUD AMMONIA COMPANY, Boston, Mass. Filed Feb. 7, 1923.

ROYAL
SNOW
CLOUD

Particular description of goods.—Ammonia.
Claims use since July 1, 1919.

Ser. No. 175,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SKRATCH MANUFACTURING CO., Los Angeles, Calif. Filed Feb. 8, 1923.

SKRATCH

Particular description of goods.—Ointment for Itching Scalp, Itching Eczema, Itching Feet, Itching Piles, Seven-Year Itch, and Barbers' Itch.
Claims use since Aug. 1, 1921.

Ser. No. 175,747. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Filed Feb. 8, 1923.

VOLTEX

Particular description of goods.—Transformer Oil.
Claims use since Dec. 22, 1922.

Ser. No. 175,769. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM CLUFF COMPANY, Wilmington, Del., and San Francisco, Calif. Filed Feb. 9, 1923.

POL-I-GON

Particular description of goods.—Laundry Soap.
Claims use since Nov. 10, 1922.

Ser. No. 175,784. (CLASS 11. INKS AND INKING MATERIALS.) VALENTINE A. GLEICH, doing business as G & H Products Co., Columbus, Ohio. Filed Feb. 9, 1923.

DE-LUXE

Particular description of goods.—Writing Inks.
Claims use since Nov. 6, 1922.

Ser. No. 175,785. (CLASS 43. THREAD AND YARN.) GUDEBROD BROS. SILK CO., New York, N. Y. Filed Feb. 9, 1923.



Particular description of goods.—Spool Silk.
Claims use since May 1, 1922.

Ser. No. 175,794. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LABORATORIO CHIMICO FARMACEUTICO MODERNO DI GRANELLI CANDIANI & C., Turin, Italy. Filed Feb. 9, 1923.



The word "Magnesia" forms no part of the mark.
Particular description of goods.—Magnesia Used for Pharmaceutical Purposes.
Claims use since Apr. 30, 1912.

Ser. No. 175,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRINCE MACARONI MFG. CO., Boston, Mass. Filed Feb. 9, 1923.



Particular description of goods.—Sauce Consisting of a Combination of Mushrooms, Tomatoes, Chicken, and Tomato Paste.
Claims use since May, 1922.

Ser. No. 175,815. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPANGLER CANDY CO., Bryan, Ohio. Filed Feb. 9, 1923.

GOLD LEAF



The representation of the leaf being lined to indicate the color gold.
Particular description of goods.—Candy.
Claims use since January, 1915.

Ser. No. 175,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS WILE SONS & CO., New York, N. Y. Filed Feb. 9, 1923.

WILWIN

Particular description of goods.—Tooth Paste, Cold Cream, Talcum Powder, and Perfume.
Claims use since Jan. 24, 1923.

Ser. No. 175,853. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUARTE-MONROVIA FRUIT EXCHANGE, Duarte, Calif. Filed Feb. 10, 1923.

IRIS

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Jan. 1, 1896.

Ser. No. 175,856. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. HARVEY FOOTE, doing business as Stain-Off Company, Burlington, Vt. Filed Feb. 10, 1923.



Particular description of goods.—Preparation for Use in Removing Discoloration from the Teeth.
Claims use since Oct. 15, 1922.

Ser. No. 175,862. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. GRAHAM, doing business as Parkstone Laboratory, Chicago, Ill. Filed Feb. 10, 1923.

NAX-E-LAX

Particular description of goods.—Biliary Antiseptic.
Claims use since Oct. 1, 1922.

Ser. No. 175,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS LIEBER GROCERY CO., St. Louis, Mo. Filed Feb. 10, 1923.

WHITE KING

Particular description of goods.—Coffee.
Claims use since Feb. 1, 1923.

Ser. No. 175,874. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANMAN & KEMP, INC., New York, N. Y. Filed Feb. 10, 1923.



The exclusive use of the wording shown in the drawing, with the exception of the words "Naturalax," "Lanman & Kemp Inc.," "L & K," and "Est. 1808" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Medicinal Seed—viz, a Bowel Regulator.
Claims use since Jan. 13, 1923.

Ser. No. 175,912. (CLASS 38. PRINTS AND PUBLICATIONS.) BETTER PICTURES PUBLISHING CO., Chicago, Ill. Filed Feb. 12, 1923.

BETTER-PICTURES
Magazine
The National Screen Journal

No claim is made to the word "Magazine" and "The National Screen Journal" except in the specified relation shown.
Particular description of goods.—Monthly Periodical.
Claims use since Feb. 3, 1923.

Ser. No. 175,951. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed Feb. 12, 1923.



Particular description of goods.—Metal Electrodes.
Claims use since Jan. 10, 1923.

Ser. No. 176,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN CRAIG COMPANY, Newport, R. I. Filed Feb. 13, 1923.

GREEN BAND

Particular description of goods.—Prophylactic Ointment.
Claims use since November, 1922.

Ser. No. 176,048. (CLASS 37. PAPER AND STATIONERY.) SAUQUOIT TOILET PAPER CO., INC., New Hartford, N. Y. Filed Feb. 14, 1923.

DOUBLE A

Particular description of goods.—Toilet Paper and Paper Towels.
Claims use since Feb. 9, 1923.

Ser. No. 176,159. (CLASS 39. CLOTHING.) DOROTHY BICKUM, New York, N. Y. Filed Feb. 17, 1923.

Dorothy Bickum

The handwriting appearing in said trade-mark is a facsimile of applicant's signature.
Particular description of goods.—Brassières.
Claims use since Aug. 22, 1922.

Ser. No. 176,168. (CLASS 27. HOROLOGICAL INSTRUMENTS.) DINHOFER BROS. INC., New York, N. Y. Filed Feb. 17, 1923.

ADORA

Particular description of goods.—Watchcases.
Claims use since Dec. 1, 1922.

Ser. No. 176,214. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES L. POOR CO., New York, N. Y. Filed Feb. 17, 1923.

SWAN GIRL

Trade-mark consists of the words "Swan Girl."
Particular description of goods.—Cotton Piece Goods.
Claims use since about Feb. 10, 1922.

Ser. No. 176,224. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMITH, HOGG & CO., New York, N. Y. Filed Feb. 17, 1923.

PHARAO

Particular description of goods.—Cotton Piece Goods.
Claims use since August, 1922.

Ser. No. 176,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COAST FISHING COMPANY INCORPORATED, Wilmington, Calif. Filed Feb. 20, 1923.

TESORO

Particular description of goods.—Canned Fish.
Claims use since Dec. 1, 1922.

Ser. No. 176,335. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FLASH CHEMICAL COMPANY, Cambridge, Mass. Filed Feb. 20, 1923.

Everybody's

Particular description of goods.—Hand Soap.
Claims use since June, 1913.

Ser. No. 176,343. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRANS VAN DER VYGH, doing business as Hikecut Company, New York, N. Y. Filed Feb. 20, 1923.

HIKENIFE

Particular description of goods.—Pocket Tool Knives
Claims use since Dec. 30, 1921.

Ser. No. 176,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. C. BROWN, Newark, Ohio. Filed Feb. 23, 1923.

ELKCLUB

Particular description of goods.—Salad Dressings.
Claims use since Jan. 1, 1923

Ser. No. 176,595. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Feb. 26, 1923.

PETITE

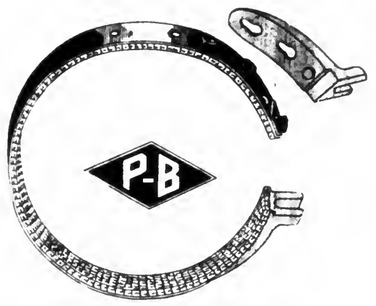
Particular description of goods.—Hosiery.
Claims use since Feb. 1, 1923.

Ser. No. 176,620. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Feb. 26, 1923.



The trade-mark shown in the accompanying drawing consisting of coloring the face of the driving gear a high gloss vermillion red, and by coloring the gear supporting frame black, no claim being made to the representation of the tool apart from the trade-mark as shown.
Particular description of goods.—Breast Drills, Bench Drills, and Hand Drills.
Claims use since July, 1895.

Ser. No. 176,645. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PARKS & BOHNE, INC., St. Louis, Mo. Filed Feb. 26, 1923.



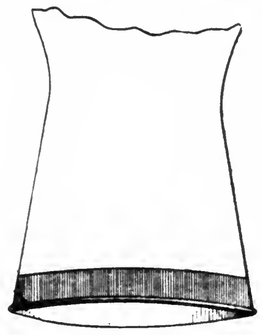
No exclusive claim, apart from the present mark, being made to the representation of a transmission band, except in so far as the same is colored red. The lining indicates the color red.
Particular description of goods.—Automobile Transmission Bands.
Claims use since Feb. 1, 1922.

Ser. No. 176,655. (CLASS 39. CLOTHING.) SACHS BROS. AND JALKUT, New York, N. Y. Filed Feb. 26, 1923.

SAX-MADE

Particular description of goods.—Infants' Wear—Namely, Dresses, Rompers, Caps, Coats, and Hats.
Claims use since Jan. 29, 1923.

Ser. No. 176,721. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DAVOL RUBBER COMPANY, Providence, R. I. Filed Feb. 28, 1923.



The mark as indicated by the lines in the drawing is a red band which is attached to the cuff of the glove to form part thereof and is preferably of rubber.
Particular description of goods.—Surgeons' Gloves.
Claims use since Jan. 1, 1923.

Ser. No. 176,739. (CLASS 39. CLOTHING.) INTERSTATE CORSET COMPANY, New York, N. Y. Filed Feb. 28, 1923.

Primrose

Particular description of goods.—Corsets and Brassières.
Claims use since Oct. 10, 1922.

Ser. No. 176,773. (CLASS 7. CORDAGE.) WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y. Filed Feb. 28, 1923.

FIBORE

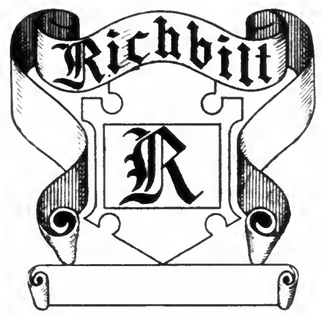
Trade-mark consists of the word "Fibore."
Particular description of goods.—Manila Rope.
Claims use since Feb. 7, 1923.

Ser. No. 176,902. (CLASS 39. CLOTHING.) LARRY J. MARGULIES, New York, N. Y. Filed Mar. 3, 1923.

PETER - BOB

Particular description of goods.—Women's Dresses and Waists.
Claims use since July, 1922.

Ser. No. 176,916. (CLASS 39. CLOTHING.) HARRY B. PLATT, New York, N. Y. Filed Mar. 3, 1923.



Particular description of goods.—Men's and Boys' Outer Garments—Namely, Overcoats, Suits, Knickerbockers, Jackets, Vests, Coats, Trousers.
Claims use since Aug. 12, 1922.

Ser. No. 176,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HEIDBRINK COMPANY, Minneapolis, Minn. Filed Mar. 5, 1923.

CA
CET-QUI
PHEN

Particular description of goods.—Medicinal Preparation for Internal Use, Acting as an Analgesic to Relieve Pain.
Claims use since Feb. 1, 1923.

Ser. No. 177,019. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL NOTIONS COMPANY, New York, N. Y. Filed Mar. 5, 1923.

Mignonette

Trade-mark consists of the word "Mignonette."
Particular description of goods.—Hair Nets.
Claims use since Feb. 1, 1923.

Ser. No. 177,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CHEMICAL COMPANY OF AMERICA, Wilmington, Del., and Washington, D. C. Filed Mar. 8, 1923.



No claim is made to the language appearing in the drawing with the exception of the letters "L" and "D" apart from the association shown. However, no common-law rights incident thereto are waived.
Particular description of goods.—Insecticide Spray (a Chemical Preparation).
Claims use since Nov. 7, 1922.

Ser. No. 177,151. (CLASS 30. CLOTHING.) PHILIP TRABULSI, doing business as Trabulsi Knit Fabric Co., New York, N. Y. Filed Mar. 8, 1923.

TRUE KNIT

No claim made to the word "Knit" apart from the mark shown in the drawing. The vertical lines represent red.
Particular description of goods. Knitted Cravats.
Claims use since Jan. 15, 1923.

Ser. No. 177,181. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GILLET & FILS, Villeurbanne, France. Filed Mar. 9, 1923.

"HÈMÉRA"

Particular description of goods.—Apparatus for Permitting the Matching of Color Shades by Artificial Light Just as with Solar Light.
Claims use since Aug. 22, 1922.

Ser. No. 177,245. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SANDERSON'S TINTINE CO., Lincoln, Nebr. Filed Mar. 10, 1923.

SANDERSON'S
QUICK
SHYN
DYE

The words appearing on the drawing are not claimed apart from the other features of the mark.
Particular description of goods.—Shoe-Shining Preparation Having Incidental Dyeing Properties.
Claims use since Sept. 8, 1921.

Ser. No. 177,283. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, doing business as Lincoln Knit Goods Mills, St. Louis, Mo. Filed Mar. 12, 1923.

"Stan-Knox"

Particular description of goods.—Sweaters.
Claims use since about Feb. 1, 1923.

Ser. No. 177,495. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HORACE LEHR, doing business as H. Lehr & Co., Easton, Pa. Filed Mar. 15, 1923.

LAFAYETTE

Particular description of goods.—Upright and Grand Pianos, Player Pianos, Electric and Reproducing Pianos, and Phonographs.
Claims use since December, 1907.

Ser. No. 177,672. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABICS.) W. V. JUDKINS & SON, Boston, Mass. Filed Mar. 19, 1923.

LUSTRO

Particular description of goods.—Silk Ribbons in the Piece.
Claims use since Feb. 1, 1922.

Ser. No. 177,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. D. JUILLIARD & CO., INC., New York, N. Y. Filed Mar. 19, 1923.

ALBATROSS

Particular description of goods.—Cotton, Duck, and Canvas Piece Goods.
Claims use since 1906.

Ser. No. 177,693. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RHEINAUER-ROTH KNITTING MILLS, INC., New York, N. Y. Filed Mar. 19, 1923.

Vest-o-knit
REG U.S. PAT OFF.

The term "Reg. U. S. Pat. Off." as shown on the drawing in specimen is disclaimed.
Particular description of goods.—Knitted Piece Goods of Wool, Worsted, Silk, Fiber Silk, or Mixtures of the Same.
Claims use since Jan. 1, 1923.

Ser. No. 177,713. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARENCE WHITMAN & SON, INC., Katonah and New York, N. Y. Filed Mar. 19, 1923.

BILLOWY

Particular description of goods.—Printed and Piece Dyed Silk and Cotton and Cotton Fabrics.
Claims use since Feb. 13, 1922.

Ser. No. 177,790. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYRADION MANUFACTURING COMPANY, Mishawaka, Ind. Filed Mar. 21, 1923.

Lyradion

Particular description of goods.—Phonographs Both Alone and in Combination with Radio Receiving Sets, Such Combined Instruments Being Contained in Cases, Consoles, Cabinets, and Concert Grand Cabinets.
Claims use since in or about March, 1922.

Ser. No. 177,891. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN VARNISH CO., Chicago, Ill. Filed Mar. 23, 1923.

Auto-Var

Trade-mark consists of the invented word "Auto-Var."
Particular description of goods.—Paint Enamels.
Claims use since Mar. 7, 1923.

Ser. No. 177,892. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN VARNISH CO., Chicago, Ill. Filed Mar. 23, 1923.

ARTSPAR

Trade-mark consists of the invented word "Artspar."
Particular description of goods.—Paint Enamels.
Claims use since Mar. 7, 1923.

Ser. No. 178,122. (CLASS 15. OILS AND GREASES.) THE PURE OIL COMPANY, Columbus, Ohio. Filed Mar. 27, 1923.

TROJAN

Particular description of goods.—Cylinder Oil.
Claims use since July, 1912.

Ser. No. 178,136. (CLASS 15. OILS AND GREASES.) THE PURE OIL COMPANY, Columbus, Ohio. Filed Mar. 27, 1923.

TROJAN ENGINE

No claim is made to the word "Engine" apart from the mark as illustrated.
Particular description of goods.—Engine Oil.
Claims use since May, 1910.

Ser. No. 178,247. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) HEIDNER & GRINNELL, INC., Tacoma, Wash. Filed Mar. 29, 1923.

OXFORD

Particular description of goods.—Toothbrushes, Hairbrushes, and Nailbrushes.
Claims use since Jan. 1, 1915.

Ser. No. 178,631. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES SCRIBNER'S SONS, New York, N. Y. Filed Apr. 5, 1923.

ARCHITECTURE

Trade-mark consists of the word "Architecture."
Particular description of goods.—Monthly Publication.
Claims use since Jan. 1, 1900.

Ser. No. 178,783. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) U. S. TOOL COMPANY, INC., Newark, N. J. Filed Apr. 7, 1923.

TUNUP

Particular description of goods.—Apparatus and Appurtenances Used in Radiotelephony, and More Particularly to Multiple-Plate Condensers.
Claims use since Jan. 11, 1923.

Ser. No. 178,816. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BROWN & SEHLER COMPANY, Grand Rapids, Mich. Filed Apr. 9, 1923.

GORILLA

Particular description of goods.—Storage Batteries.
Claims use since Sept. 8, 1922.

Ser. No. 178,955. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CANDY MANUFACTURER PUBLISHING CO., Chicago, Ill. Filed Apr. 11, 1923.

The Candy Foreman

Particular description of goods.—Magazines Published Semiannually.
Claims use since Apr. 7, 1923.

Ser. No. 178,957. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELMER T. CUNNINGHAM, San Francisco, Calif. Filed Apr. 11, 1923.

Cunningham

The trade-mark consists of a facsimile of my signature.
Particular description of goods.—Thermionic Detector, Amplifier, and Oscillator Tubes.
Claims use since October, 1920.

Ser. No. 178,959. (CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH A. CUNNINGHAM, Philadelphia, Pa. Filed Apr. 11, 1923.

RUFUS McGOOFUS

Particular description of goods.—Newspaper Cartoon Section.
Claims use since Nov. 6, 1922.

Ser. No. 179,015. (CLASS 38. PRINTS AND PUBLICATIONS.) TREE LOVERS ASSOCIATION OF AMERICA, Aurora, Ill. Filed Apr. 11, 1923.

PLAN TO PLANT ANOTHER TREE

Particular description of goods.—Monthly Periodical.
Claims use since Apr. 4, 1923.

Ser. No. 179,122. (CLASS 38. PRINTS AND PUBLICATIONS.) M. WITMARK & SONS, New York, N. Y. Filed Apr. 13, 1923.

THE WITMARK BLACK AND WHITE SERIES

Particular description of goods.—Sheet Music.
Claims use since 1900.

Ser. No. 179,145. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT GOLDEN, New York, N. Y. Filed Apr. 14, 1923.

GOLDEN RAYS

Trade-mark consists of the words "Golden Rays."
Particular description of goods.—Spotlights and Light Projectors.
Claims use since Jan. 3, 1923.

Ser. No. 179,190. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLEXIBLE STEEL LACING CO., Chicago, Ill. Filed Apr. 16, 1923.

FLEXCO-LOK

Trade-mark consists of the compound word "Flexco-Lox."
Particular description of goods.—Guards for Electric Lamps.
Claims use since early in 1916.

Ser. No. 179,218. (CLASS 38. PRINTS AND PUBLICATIONS.) NORTHWESTERN BELL TELEPHONE COMPANY, Des Moines, Iowa, and Omaha, Nebr. Filed Apr. 16, 1923.

The Northwestern Bell

Particular description of goods.—Monthly Periodical.
Claims use since Jan. 1, 1920.

Ser. No. 179,337. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TEAGLE COMPANY, Cleveland, Ohio. Filed Apr. 18, 1923.

ADAPTAFONE

Particular description of goods.—Telephone Adapters for Coupling Telephone Receivers to Sound Amplifiers.
Claims use since Mar. 23, 1922.

Ser. No. 179,380. (CLASS 38. PRINTS AND PUBLICATIONS.) SIGMUND NEWMAN, doing business as S. Newman & Company, New York, N. Y. Filed Apr. 19, 1923.

THE RADIO CONSTRUCTOR

Particular description of goods.—Name of a Magazine or Publication Published from Time to Time Specializing on Subjects Pertaining to Radio Telegraphy and Telephony.
Claims use since Dec. 20, 1922.

Ser. No. 179,401. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC APPLIANCES, INC., Muncie, Ind. Filed Apr. 20, 1923.

Kook-Rite

Particular description of goods.—Electric Stoves.
Claims use since Nov. 29, 1922.

Ser. No. 179,402. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC HEAT UNIT CO., St. Louis, Mo. Filed Apr. 20, 1923.

SOLDERETTE

Trade-mark consists of the word "Solderette."
Particular description of goods.—Electrical Soldering Irons.
Claims use since Oct. 31, 1922.

Ser. No. 179,780. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DEAN-HICKS COMPANY, Grand Rapids, Mich. Filed Apr. 27, 1923.

FURNISHINGS for BETTER HOMES

Particular description of goods.—Magazines Published Monthly.
Claims use since January, 1923.

Ser. No. 179,869. (CLASS 38. PRINTS AND PUBLICATIONS.) ELSIE D. HOUTAIN, Brooklyn, N. Y. Filed Apr. 28, 1923.

HIGH LIFE

Particular description of goods.—Magazine Published Monthly.
Claims use since Mar. 22, 1923.

Ser. No. 179,927. (CLASS 15. OILS AND GREASES.) GRACE B. CARRAN, doing business as Central Petroleum Company, Cleveland, Ohio. Filed Apr. 30, 1923.

CPCo

Particular description of goods.—Lubricating Oils and Greases.
Claims use since January, 1914.

Ser. No. 179,971. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SAMUEL F. STEIN, Williamsport, Pa. Filed Apr. 30, 1923.

TEMPOPHONE

Particular description of goods.—Telephone Instruments.
Claims use since Sept. 27, 1922.

Ser. No. 180,409. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN STEAM GAUGE & VALVE MANUFACTURING COMPANY, Boston, Mass. Filed May 10, 1923. Section 9 of the act of Mar. 19, 1920.

AMERICAN

Particular description of goods.—Steam Traps, Feed-Water Grease Extractors, Pot Safety Valves, and Relief Valves.
Claims use since on or about Jan. 1, 1885, on valves; since on or about Jan. 1, 1910, on grease extractors; since on or about Jan. 1, 1913, on steam traps.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 26, 1923.

169,577. FURNITURE POLISH HAVING INCIDENTAL PROPERTIES AS A METAL POLISH. JOHN F. DUTRA, doing business as Galtra Manufacturing Co., Fall River, Mass.
Filed June 1, 1922. Serial No. 164,792. PUBLISHED MARCH 27, 1923.

169,578. COUGH SIRUPS. PUENTE & CICERO, doing business as Lemonium Company, Los Angeles, Calif.
Filed March 27, 1922. Serial No. 161,334. PUBLISHED MARCH 6, 1923.

169,579. FACE POWDER, TALCUM POWDER, PERFUME. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed March 4, 1922. Serial No. 160,185. PUBLISHED MARCH 6, 1923.

169,580. TOILET SOAPS. MYRURGIA S. A., Barcelona, Spain.
Filed February 15, 1922. Serial No. 159,369. PUBLISHED MARCH 27, 1923.

169,581. LEATHER BOOTS AND SHOES. THE KROHN-FECHHEIMER CO., Cincinnati, Ohio.
Filed March 1, 1922. Serial No. 160,013. PUBLISHED AUGUST 22, 1922.

169,582. TOILET SOAPS. MYRURGIA S. A., Barcelona, Spain.
Filed February 15, 1922. Serial No. 159,368. PUBLISHED MARCH 27, 1923.

169,583. TONIC, BLOOD PURIFIER, AND RHEUMATISM MEDICINE. JOSEPHINE G. SKEEHAN, San Francisco, Calif.
Filed January 30, 1922. Serial No. 158,651. PUBLISHED FEBRUARY 27, 1923.

169,584. HAIR NETS. PARISTYLE NOVELTY CO. INC., New York, N. Y.
Filed January 25, 1922. Serial No. 158,436. PUBLISHED SEPTEMBER 5, 1922.

169,585. LAXATIVES. MARMOLA COMPANY, Detroit, Mich.
Filed November 14, 1921. Serial No. 155,357. PUBLISHED JULY 18, 1922.

169,586. GOITER MEDICINE. ALLEN REMEDY COMPANY, Sheffield, Iowa.
Filed January 21, 1922. Serial No. 158,209. PUBLISHED MARCH 6, 1923.

169,587. LINIMENTS. CLAUDE A. BURKE, doing business as Koronkowa Medicine Company, Lufkin, Tex.
Filed January 18, 1922. Serial No. 158,074. PUBLISHED MARCH 6, 1923.

169,588. FACE POWDER, FACE CREAMS, PERFUME, TOILET WATER, ROUGE, AND TALCUM POWDER. CHARLES L. KLAPP, St. Louis, Mo.
Filed November 21, 1921. Serial No. 155,696. PUBLISHED FEBRUARY 27, 1923.

169,589. PLASTER. IOWANA GYPSUM PRODUCTS CO., Fort Dodge, Iowa.
Filed October 26, 1921. Serial No. 154,603. PUBLISHED FEBRUARY 6, 1923.

169,590. METAL BUILDING SPECIALTIES. THE DONLEY BROTHERS CO., Cleveland, Ohio.
Filed October 24, 1921. Serial No. 154,491. PUBLISHED MARCH 13, 1923.

169,591. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. CONTINENTAL DRUG & CHEMICAL CO., INCORPORATED, El Paso, Tex.
Filed July 27, 1921. Serial No. 150,995. PUBLISHED FEBRUARY 27, 1923.

169,592. MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM. BERNARDO PEREZ, Mexico, Mexico.
Filed May 6, 1921. Serial No. 147,307. PUBLISHED MARCH 6, 1923.

169,593. PAINT BRUSHES, ETC. JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts.
Filed November 17, 1920. Serial No. 139,776. PUBLISHED JULY 11, 1922.

169,594. BUCKLES AND STRAPS FOR BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS. JOHN HOWARD TABLER, Washington, D. C.
Filed October 5, 1920. Serial No. 137,973. PUBLISHED MARCH 27, 1923.

169,595. MEDICAL AND SURGICAL BANDAGES. MAX KERMES, Hainichen, Germany.
Filed October 5, 1920. Serial No. 137,944. PUBLISHED MARCH 27, 1923.

169,596. PAINT FOR GENERAL USE, INCLUDING DRY, READY MIXED, AND PASTE. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,129. PUBLISHED MARCH 27, 1923.

169,597. MALT SIRUP. DECATUR BREWING CO., Decatur, Ill.
Filed July 24, 1919. Serial No. 120,869. PUBLISHED OCTOBER 25, 1921.

169,598. PERFUME AND FACE POWDER. J. GROSSMITH & SON, LIMITED, London, England.
Filed October 20, 1922. Serial No. 170,979. PUBLISHED MARCH 20, 1923.

169,599. HAIR PREPARATIONS. HENRY L. TROTMAN, doing business as Henry L. Trotman & Co., Cleveland, Ohio.
Filed October 30, 1922. Serial No. 171,394. PUBLISHED MARCH 20, 1923.

169,600. A PREPARATION FOR EXTERMINATING RODENTS. THEODORE MEYER, Philadelphia, Pa.
Filed November 8, 1922. Serial No. 171,739. PUBLISHED MARCH 20, 1923.

169,601. A PREPARATION FOR EXTERMINATING RODENTS. THEODORE MEYER, Philadelphia, Pa.
Filed November 8, 1922. Serial No. 171,740. PUBLISHED MARCH 20, 1923.

169,602. PIECE GOODS OF COTTON. LIBERTY & CO. LIMITED, London, England.
Filed November 10, 1922. Serial No. 171,808. PUBLISHED MARCH 27, 1923.

169,603. A HEALING SALVE. JULIEN FÉRAUT, Sacramento, Calif.
Filed November 11, 1922. Serial No. 171,828. PUBLISHED MARCH 20, 1923.

169,604. CHEMICAL SUBSTITUTES FOR CAMPHOR USED IN THE MANUFACTURE OF CELLULOID. H. A. METZ & CO., INC., New York, N. Y.
Filed November 13, 1922. Serial No. 171,940. PUBLISHED MARCH 20, 1923.

169,605. SKIN-STERILIZING PREPARATION USED IN SURGERY. EMPIRE BIOCHEMICAL COMPANY, New York, N. Y.
Filed November 22, 1922. Serial No. 172,373. PUBLISHED FEBRUARY 27, 1923.

169,606. FACE-TREATING CLAY. GUY A. ROBINSON, doing business as The Neptune Laboratories, Dallas, Tex.
Filed November 23, 1922. Serial No. 172,440. PUBLISHED FEBRUARY 27, 1923.

169,607. A CERTAIN NAMED MEDICINAL PREPARATION. ABEL WATELET, doing business as Abel Watelet & Cie., Paris, France.
Filed November 23, 1922. Serial No. 172,455. PUBLISHED FEBRUARY 27, 1923.

169,608. TONIC FOR THE SKIN. IMPERIAL HYGIENIC CO., Suffern, N. Y.
Filed November 24, 1922. Serial No. 172,476. PUBLISHED FEBRUARY 27, 1923.

169,609. A CERTAIN NAMED CHEMICAL PREPARATION. AARON KOSOFSKY, doing business as Hudson Bay Fur Company, New York, N. Y.
Filed November 24, 1922. Serial No. 172,479. PUBLISHED MARCH 6, 1923.

169,610. PREPARATION FOR CLEANING THE SCALP. ATLANTA BARBERS SUPPLY COMPANY, Atlanta, Ga.
Filed November 25, 1922. Serial No. 172,502. PUBLISHED MARCH 6, 1923.

169,611. A CERTAIN NAMED MEDICINAL PREPARATION. SAMUEL CHASE, Fort Wayne, Ind.
Filed November 25, 1922. Serial No. 172,513. PUBLISHED MARCH 6, 1923.

169,612. LINIMENT. CHARLES E. CLAFLIN, Rensselaer, N. Y.
Filed November 25, 1922. Serial No. 172,515. PUBLISHED FEBRUARY 27, 1923.

169,613. A CERTAIN NAMED MEDICINAL PREPARATION. THE LAFAYETTE PHARMACAL COMPANY, La Fayette, Ind.
Filed November 25, 1922. Serial No. 172,541. PUBLISHED MARCH 6, 1923.

169,614. OIL TO PREVENT PERSPIRATION OF THE FEET. KONSTANTIN KOSINSKI, Ipswich, Mass.
Filed November 27, 1922. Serial No. 172,601. PUBLISHED MARCH 6, 1923.

169,615. WALL-FINISH PAINTS OR CALCIMINES IN POWDER FORM. MCPHEE & MCGINNITY COMPANY, Denver, Colo.
Filed November 27, 1922. Serial No. 172,605. PUBLISHED MARCH 27, 1923.

169,616. HAIR TONIC. GEORGE A. MENZIE, Duluth, Minn.
Filed November 27, 1922. Serial No. 172,606. PUBLISHED MARCH 6, 1923.

169,617. HAIR-COMBING CREAM. EDWARD WESLEY & COMPANY, Cincinnati, Ohio, assignor to Clifford F. Eha, Cincinnati, Ohio.
Filed November 27, 1922. Serial No. 172,625. PUBLISHED MARCH 6, 1923.

169,618. CERTAIN NAMED TOILET PREPARATIONS. MARIETTA B. WILLATS, doing business as "Dolly Varden Co.," Los Angeles, Calif.
Filed November 27, 1922. Serial No. 172,628. PUBLISHED MARCH 6, 1923.

169,619. MATERIAL FOR BLEACHING AND DEGUMMING SILK. SURPASS CHEMICAL CO. INC., Albany, N. Y.
Filed November 28, 1922. Serial No. 172,658. PUBLISHED MARCH 6, 1923.

169,620. OFFICE-RECORD RACKS AND PHONOGRAPH-RECORD RACKS. LA SALLE MANUFACTURING COMPANY, La Salle, Ill.
Filed December 1, 1922. Serial No. 172,748. PUBLISHED MARCH 27, 1923.

169,621. CERTAIN NAMED MEDICINAL PREPARATIONS. PAXTONIC BLOOD FOOD CO. INC., Birmingham, Ala.
Filed December 1, 1922. Serial No. 172,760. PUBLISHED MARCH 6, 1923.

169,622. PAINT PIGMENTS, ESPECIALLY LITHOPONE AND CADMIUM YELLOW. THE KREBS PIGMENT & CHEMICAL COMPANY, Newport, Del.
Filed December 2, 1922. Serial No. 172,841. PUBLISHED MARCH 27, 1923.

169,623. COMBS FOR DRESSING, ORNAMENTING, AND CLEANING THE HAIR. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed December 7, 1922. Serial No. 173,025. PUBLISHED MARCH 27, 1923.

169,624. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed December 8, 1922. Serial No. 173,084. PUBLISHED MARCH 20, 1923.

169,625. NURSING BOTTLES. CORNING GLASS WORKS, Corning, N. Y.
Filed December 16, 1922. Serial No. 173,405. PUBLISHED MARCH 27, 1923.

169,626. CARDCASES, POCKETBOOKS, AND PORTFOLIOS. LOUIS STEIN, doing business as Stein Bros. & Co., Chicago, Ill.
Filed December 16, 1922. Serial No. 173,448. PUBLISHED MARCH 27, 1923.

169,627. ARTIFICIAL SILK IN THE PIECE. L. & E. STIRN, New York, N. Y.
Filed December 21, 1922. Serial No. 173,685. PUBLISHED MARCH 13, 1923.

169,628. CANDLES. WEST INDIA OIL COMPANY, New York, N. Y.
Filed December 23, 1922. Serial No. 173,798. PUBLISHED MARCH 27, 1923.

169,629. MEDICINAL PREPARATION RECOMMENDED AS A PAIN ALLEVIATOR. SCHERING & GLATZ, INC., New York, N. Y.
Filed December 30, 1922. Serial No. 174,033. PUBLISHED FEBRUARY 27, 1923.

169,630. CLOSET AND WALL BEDS. ROBERTI BROS., Los Angeles, Calif.
Filed January 2, 1923. Serial No. 174,110. PUBLISHED MARCH 27, 1923.

169,631. PAPER BOXES. SCHMEER'S PAPER BOX COMPANY, Syracuse, N. Y.
Filed January 2, 1923. Serial No. 174,112. PUBLISHED MARCH 27, 1923.

169,632. KITCHEN CABINETS. MCDOUGALL COMPANY, Frankfort, Ind.
Filed January 20, 1923. Serial No. 174,846. PUBLISHED MARCH 27, 1923.

169,633. COMMERCIAL FERTILIZER. ARMOUR FERTILIZER WORKS, Chicago, Ill., and Louisville, Ky.
Filed January 23, 1923. Serial No. 174,952. PUBLISHED MARCH 27, 1923.

169,634. LUBRICATING OILS. UNITED MARINE & FUEL CORPORATION, New York, N. Y.
Filed January 24, 1923. Serial No. 175,034. PUBLISHED MARCH 27, 1923.

169,635. CELLULOSE NONSHRINKING, NONCRACKING CAPPING FLUID. ARMIN DEGENER, INC., New York, N. Y.
Filed January 25, 1923. Serial No. 175,072. PUBLISHED MARCH 27, 1923.

169,636. SUSPENSORY BANDAGES OR JOCK STRAPS. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed January 26, 1923. Serial No. 175,146. PUBLISHED MARCH 27, 1923.

169,637. LUBRICATING OILS. STANDARD OIL COMPANY, San Francisco, Calif.
Filed January 27, 1923. Serial No. 175,223. PUBLISHED MARCH 27, 1923.

169,638. LUBRICATING OILS, GREASES, AND GASOLINE. KANSAS CITY REFINING SALES COMPANY, Kansas City, Kans.
Filed January 29, 1923. Serial No. 175,248. PUBLISHED MARCH 27, 1923.

169,639. MANICURE BUFFERS. C. J. BATES & SON, Chester, Conn.
Filed January 30, 1923. Serial No. 175,295. PUBLISHED MARCH 27, 1923.

169,640. PERFUMES. LIONEL TRADING CO. INC., New York, N. Y.
Filed October 28, 1922. Serial No. 171,333. PUBLISHED JANUARY 30, 1923.

169,641. A PRUNE LAXATIVE PREPARATION. JOHN F. MURRAY, New York, N. Y.
Filed October 19, 1922. Serial No. 170,945. PUBLISHED MARCH 20, 1923.

169,642. CERTAIN NAMED TOILET PREPARATIONS. LA SOCIETE ANONYME "PARFUMS GUELDY," Paris, France.
Filed October 19, 1922. Serial No. 170,938. PUBLISHED MARCH 6, 1923.

169,643. CERTAIN NAMED TOILET AND PHARMACEUTICAL PREPARATIONS. WILBERT M. BENEDICT, New York, N. Y.
Filed October 11, 1922. Serial No. 170,556. PUBLISHED MARCH 20, 1923.

169,644. AN EYEWASH. I-EZ Co., Brooklyn, N. Y.
Filed October 7, 1922. Serial No. 170,438. PUBLISHED MARCH 20, 1923.

169,645. ICE-BOX DEODORANTS. KANAK COMPANY, INC., New York, N. Y.
Filed October 3, 1922. Serial No. 170,249. PUBLISHED FEBRUARY 27, 1923.

169,646. CERTAIN NAMED TOILET PREPARATIONS. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,082. PUBLISHED FEBRUARY 27, 1923.

169,647. DESIGNS USED FOR ART NEEDLEWORK. ESTELLA MAY HAMMOND, East Cleveland, Ohio.
Filed September 28, 1922. Serial No. 169,852. PUBLISHED MARCH 27, 1923.

169,648. PREPARATION FOR THE RELIEF AND CURE OF INDIGESTION. GIUSEPPE P. MARANTO, Baltimore, Md.
Filed September 18, 1922. Serial No. 169,600. PUBLISHED MARCH 20, 1923.

169,649. READY-MIXED PAINT. THE H. B. DAVIS COMPANY, Baltimore, Md.
Filed September 16, 1922. Serial No. 169,538. PUBLISHED MARCH 27, 1923.

169,650. ASTHMATIC PASTILS. SAMUEL KIDDER & CO. INC., Boston, Mass.
Filed September 1, 1922. Serial No. 168,974. PUBLISHED MARCH 20, 1923.

169,651. AUTOMOBILE AND FURNITURE POLISHES. T. & A. CHEMICAL COMPANY, Boston, Mass.
Filed August 19, 1922. Serial No. 168,742. PUBLISHED MARCH 27, 1923.

169,652. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. CHESEBROUGH MANUFACTURING CO., (CONSOLIDATED), New York, N. Y.
Filed August 23, 1922. Serial No. 168,596. PUBLISHED MARCH 6, 1923.

169,653. HOUSEHOLD FURNITURE FOR THE LIVING ROOM, DINING ROOM, BEDROOM, AND KITCHEN, AND OFFICE FURNITURE. O. W. RICHARDSON & CO., Chicago, Ill.
Filed August 21, 1922. Serial No. 168,553. PUBLISHED MARCH 27, 1923.

169,654. BATTERY COMPOUND. HANSON & MOE, St. Paul, Minn.
Filed August 19, 1922. Serial No. 168,468. PUBLISHED MARCH 20, 1923.

169,655. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed August 18, 1922. Serial No. 168,435. PUBLISHED FEBRUARY 27, 1923.

169,656. ANTISEPTIC MOUTH WASHES. MILLER & MEISSNER, Cuero, Tex.
Filed July 29, 1922. Serial No. 167,578. PUBLISHED MARCH 6, 1923.

169,657. HAIR GROWER. THE ROBINETTE CO., Syracuse, N. Y.
Filed July 21, 1922. Serial No. 167,195. PUBLISHED MARCH 6, 1923.

169,658. POCKET HOLY-WATER FOUNTAINS. MATRE & COMPANY, Chicago, Ill.
Filed July 15, 1922. Serial No. 166,951. PUBLISHED MARCH 27, 1923.

169,659. PAINTS AND PAINTERS' MATERIALS. CALIFORNIA PAINT COMPANY, Oakland, Calif.
Filed July 13, 1922. Serial No. 166,812. PUBLISHED MARCH 27, 1923.

169,660. HAIR-STRAIGHTENING COMBS. OSCAR RICHARD ALTWEIN, doing business as O. R. Altwein & Co., Asheville, N. C.
Filed July 11, 1922. Serial No. 166,733. PUBLISHED MARCH 27, 1923.

169,661. A SOLDERING FLUX IN SALTS, PASTE, AND FLUID FORMS. FRANK CHAPMAN, doing business as The M. W. Dunton Co., Providence, R. I.
Filed September 30, 1922. Serial No. 170,123. PUBLISHED MARCH 20, 1923.

169,662. ULTRAMARINE BLUE. THE STANDARD ULTRAMARINE CO., Huntington, W. Va.
Filed October 18, 1922. Serial No. 170,906. PUBLISHED MARCH 20, 1923.

169,663. CATARRH JELLY. CROWN TARTAREX CO., INC., New York, N. Y.
Filed October 19, 1922. Serial No. 170,929. PUBLISHED MARCH 20, 1923.

169,664. TOOTH PASTE AND TONIC FOR THE GUMS. CROWN TARTAREX CO., INC., New York, N. Y.
Filed October 19, 1922. Serial No. 170,930. PUBLISHED MARCH 20, 1923.

169,665. LAVENDER WATER. J. GROSSMITH & SON, LIMITED, London, England.
Filed October 20, 1922. Serial No. 170,976. PUBLISHED MARCH 20, 1923.

169,666. PERIODICAL AT PRESENT ISSUED WEEKLY. NATIONAL ASSOCIATION OF HOSIERY AND UNDERWEAR MANUFACTURERS, New York, N. Y.
Filed October 21, 1922. Serial No. 171,033. PUBLISHED MARCH 27, 1923.

169,667. MEDICINAL PREPARATION OF TONIC AND LAXATIVE PROPERTIES. THOMPSON MEDICAL CO., Titusville, Pa.
Filed October 21, 1922. Serial No. 171,046. PUBLISHED MARCH 27, 1923.

169,668. MASSAGE CREAM. JOHN E. HOPKE, Brooklyn, N. Y.
Filed October 25, 1922. Serial No. 171,169. PUBLISHED MARCH 27, 1923.

169,669. COTTON GOODS AND LINENS IN THE PIECE. FERDINAND SICHEL, New York, N. Y.
Filed January 24, 1923. Serial No. 175,028. PUBLISHED MARCH 27, 1923.

169,670. COTTON PIECE GOODS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed January 24, 1923. Serial No. 175,023. PUBLISHED MARCH 27, 1923.

169,671. COTTON PIECE GOODS, COTTON SHEETS, AND COTTON PILLOWCASES. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed January 24, 1923. Serial No. 175,022. PUBLISHED MARCH 27, 1923.

169,672. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed January 17, 1923. Serial No. 174,687. PUBLISHED MARCH 27, 1923.

169,673. COTTON AND COTTON AND SILK MIXTURE FABRICS IN THE PIECE. WAUMBEK MANUFACTURING COMPANY, New York, N. Y.
Filed January 12, 1923. Serial No. 174,548. PUBLISHED MARCH 27, 1923.

169,674. DRAPERY FABRICS. JOSEPH DERK & Co., Philadelphia, Pa.
Filed January 10, 1923. Serial No. 174,385. PUBLISHED MARCH 27, 1923.

169,675. FACE POWDERS AND ROUGES. LIONEL TRADING CO., INC., New York, N. Y.
Filed January 2, 1923. Serial No. 174,085. PUBLISHED APRIL 24, 1923.

169,676. TEXTILE FABRICS CONSISTING OF COTTON PIECE GOODS. W. R. GRACE & Co., New York, N. Y., and San Francisco, Calif.
Filed December 28, 1922. Serial No. 173,927. PUBLISHED MARCH 27, 1923.

169,677. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed December 28, 1922. Serial No. 173,909. PUBLISHED MARCH 27, 1923.

169,678. CIGARETTE HOLDERS. JOSEPH F. RIOUX, doing business as Bliss Brothers Company, Attleboro, Mass.
Filed December 20, 1922. Serial No. 173,610. PUBLISHED MARCH 27, 1923.

169,679. A PREPARATION FOR USE IN THE TREATMENT OF THE HAIR. H. L. HOLT, doing business as The Hepsall Company, Ogamaw, Ark.
Filed December 13, 1922. Serial No. 173,285. PUBLISHED MARCH 27, 1923.

169,680. MEDICINAL PREPARATIONS FOR CRAMPS, DIARRHEA, AND COLDS. WALKER BROS. Co., Boston, Mass., assignor to Za-Rex Food Products Inc., Boston, Mass., a Corporation of Massachusetts.
Filed December 12, 1922. Serial No. 173,263. PUBLISHED MARCH 27, 1923.

169,681. A TREATED CLOTH FOR DUSTING AND POLISHING. JOHN E. EASTMOND, doing business as Work Savers Company, Brooklyn, N. Y.
Filed December 11, 1922. Serial No. 173,181. PUBLISHED MARCH 27, 1923.

169,682. CALCIUM CARBIDE, NITRIC ACID, AND NITRATES. ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland.
Filed December 7, 1922. Serial No. 173,022. PUBLISHED MARCH 27, 1923.

169,683. INSECTICIDE. CHAS. PETERSON, Duluth, Minn.
Filed December 1, 1922. Serial No. 172,761. PUBLISHED MARCH 20, 1923.

169,684. PLUMBING AND HEATING PERIODICAL. DOMESTIC ENGINEERING CO., Chicago, Ill.
Filed November 27, 1922. Serial No. 172,587. PUBLISHED MARCH 27, 1923.

169,685. CERTAIN NAMED CHEMICAL PREPARATION. JAMES GOOD, INC., Philadelphia, Pa.
Filed July 11, 1922. Serial No. 166,740. PUBLISHED MARCH 20, 1923.

169,686. A NEUTRAL CONSTANT MEDICINAL IRON PREPARATION. A/S FERROSAN, Copenhagen, Denmark.
Filed July 3, 1922. Serial No. 166,430. PUBLISHED MARCH 27, 1923.

169,687. COFFEE. THE LOUISVILLE COFFEE COMPANY, Louisville, Ky.
Filed June 26, 1922. Serial No. 166,080. PUBLISHED APRIL 17, 1923.

169,688. SILK AND COTTON PIECE GOODS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed June 23, 1922. Serial No. 165,923. PUBLISHED MARCH 27, 1923.

169,689. DENTAL PREPARATIONS. C. SMITH LONG, doing business as Smith Long Laboratories, Portland, Oreg.
Filed June 21, 1922. Serial No. 165,798. PUBLISHED FEBRUARY 27, 1923.

169,690. TRADE PAPERS AND BULLETINS USED AT IRREGULAR INTERVALS. NATIONAL RETAIL DRY GOODS ASSOCIATION, New York, N. Y.
Filed June 19, 1922. Serial No. 165,704. PUBLISHED MARCH 27, 1923.

169,691. ASH TRAYS. REBEKAH E. RANEY, San Francisco, Calif.
Filed January 16, 1922. Serial No. 158,007. PUBLISHED MARCH 27, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

169,692. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Feb. 8, 1923. Serial No. 175,730.

GROSVENOR

Particular description of goods.—Silver-Plated Flatware, Silver-Plated Tableware, and Silver-Plated Cutlery.
Claims use since Feb. 26, 1921.

169,693. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OTIS ELEVATOR COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 2, 1923. Serial No. 175,436.



Particular description of goods.—Elevators, Escalators, Endless Carriers, Inclined Railways, Blast-Furnace Hoists, Ammunition Hoists, and Gravity Spiral Conveyers.
Claims use since January, 1920.

169,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER KURY, St. Louis, Mo. Filed Jan. 29, 1923. Serial No. 175,251.

THE BETTER KIND

Particular description of goods.—Ham and Bacon.
Claims use since January, 1915.

169,695. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE CLOSE Co., Cambridge, Mass. Filed Jan. 24, 1923. Serial No. 175,005.

WINDSOR

Particular description of goods.—Chocolate-Covered Candies.
Claims use since 1903.

169,696. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CRESCENT COAL CO., Peoria, Ill. Filed Jan. 18, 1923. Serial No. 174,726.

La Marsh Coal

Particular description of goods.—Coal.
Claims use for not less than one year.

169,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARAH ESTHER DONOHUE, doing business as the Peerless Dentists, Eugene, Oreg. Filed Jan. 8, 1923. Serial No. 174,331.

Day-lite Sleep

PUTS THE TEETH TO SLEEP

Particular description of goods.—Dental Anæsthetic.
Claims use since Nov. 1, 1921.

169,698. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEO. W. CONNER, Boston, Mass. Filed Jan. 6, 1923. Serial No. 174,235.

GRIP-TITE

Particular description of goods.—Metal Canopies for Electric-Light Fixtures.
Claims use since Jan. 1, 1919.

169,699. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PETER J. MICHELS, New York, N. Y. Filed Dec. 9, 1922. Serial No. 173,140.

MERIT

Trade-mark consists of the word "Merit."
Particular description of goods.—Cutlery—Namely, Razors and Shears.
Claims use since Apr. 1, 1922.

169,700. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 1, 1922. Serial No. 172,742.

GOOD VALUE

Particular description of goods.—Coffee.
Claims use since 1904.

169,701. (CLASS 39. CLOTHING.) HOUSEHOLD HOSIERY MILLS, INC., Chattanooga, Tenn. Filed Dec. 1, 1922. Serial No. 172,739.

HOUSEHOLD HOSIERY

Particular description of goods.—Hosiery.
Claims use since Mar. 1, 1922.

169,702. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. W. GODDARD & SONS, INCORPORATED, New York, N. Y. Filed Nov. 25, 1922. Serial No. 172,528.

GODDARD'S INDELIBLE

Particular description of goods.—Cotton Piece Goods.
Claims use since February, 1922.

169,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Nov. 18, 1922. Serial No. 172,222.

Herbert's

Particular description of goods.—Canned Fruits and Vegetables, Dried Fruits.
Claims use since Nov. 11, 1919.

169,704. (CLASS 39. CLOTHING.) ROSENWALD & WEIL, INC., Chicago, Ill. Filed Nov. 13, 1922. Serial No. 171,958.

ATHLETIC STOUT

Particular description of goods.—Men's, Young Men's, Boys', and Women's Suits.
Claims use since Feb. 1, 1922.

169,705. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CURTIS CORPORATION, Wilmington, Del., and Long Beach, Calif. Filed Oct. 28, 1922. Serial No. 171,306.

GLENWOOD

Particular description of goods.—Ripe Olives.
Claims use since 1910.

169,706. (CLASS 39. CLOTHING.) JOSEPH S. FLEISCHER, Brooklyn, N. Y. Filed Oct. 25, 1922. Serial No. 171,161.

FLEISCHER

SWEATERS

Particular description of goods.—Sweater.
Claims use since July 11, 1921.

169,707. (CLASS 17. TOBACCO PRODUCTS.) SIG. C. MAYER & COMPANY, INC., Philadelphia, Pa. Filed Oct. 23, 1922. Serial No. 171,097.

JOHN B. STETSON

Particular description of goods.—Cigars.
Claims use since February, 1906.

169,708. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYDRO MANUFACTURING COMPANY, Little Rock, Ark. Filed Sept. 20, 1922. Serial No. 169,712.

Hydro

Particular description of goods.—Chemical for Recharging Batteries.
Claims use since Dec. 10, 1921.

169,709. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENICK & FORD, LTD., INCORPORATED, New Orleans, La. Filed Sept. 18, 1922. Serial No. 169,646.

Penick

Particular description of goods.—Table Sirup.
Claims use since Jan. 19, 1921.

169,710. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) IMPROVED EQUIPMENT COMPANY, New York, N. Y. Filed Aug. 23, 1922. Serial No. 168,615.

DOHERTY BENCH FUEL ECONOMIZER

Particular description of goods.—Apparatus Used in the Manufacture of Gas from Coal.
Claims use since April, 1907.

169,711. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE PEERLESS LEVEL & TOOL CO., Sterling, Ill. Filed Mar. 15, 1923. Serial No. 177,513.

PEERLESS

Particular description of goods.—Tools, and Particularly Levels.
Claims use since 1916.

169,712. (CLASS 39. CLOTHING.) ALLANDALE KNITTING MILLS, INC., New York, N. Y. Filed Feb. 19, 1923. Serial No. 176,245.

ALLANDALE
Allandale
The 4 Season Jacket

Particular description of goods.—Knitted Sport Coats, Sweaters, Jackets, and Bathing Suits.
Claims use since about Oct. 21, 1922.

169,713. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OTIS ELEVATOR COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 21, 1923. Serial No. 176,425.

THE WORLD'S WORD FOR ELEVATOR SAFETY

Particular description of goods.—Elevators, Escalators, Endless Carriers, Inclined Railways, Blast-Furnace Hoists, Ammunition Hoists, and Gravity Spiral Conveyers.
Claims use since January, 1920.

169,714. (CLASS 39. CLOTHING.) R. H. WHITE COMPANY, Boston, Mass. Filed Mar. 7, 1923. Serial No. 177,117.

Choice-of-the-House

Particular description of goods.—Men's, Women's, and Children's Suits and Coats; Women's and Children's Dresses and Waists; and Men's, Women's, and Children's Shoes of Leather, Rubber, Fabric, and Combinations.
Claims use since 1912.

169,715. (CLASS 39. CLOTHING.) D. SALWEN & CO., INC., New York, N. Y. Filed Mar. 3, 1923. Serial No. 176,910.

NOTAIR

Particular description of goods.—Hosiery.
Claims use since July 14, 1921.

169,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif. Filed Mar. 10, 1923. Serial No. 177,230.

MERIT
LINDSAY CO-OPERATIVE CITRUS ASSN.
LINDSAY, TULARE CO. CALIFORNIA

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Nov. 1, 1921.

169,717. (CLASS 39. CLOTHING.) LONG'S HAT STORES, New York, N. Y. Filed Mar. 10, 1923. Serial No. 177,233.

LONG'S HAT STORES

Particular description of goods.—Men's Hats.
Claims use since Mar. 31, 1922.

169,718. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLUMBUS MANUFACTURING COMPANY, Columbus, Ga. Filed Mar. 12, 1923. Serial No. 177,276.

COLUMBUS

Particular description of goods.—Cotton Sheetings.
Claims use since January, 1911.

169,719. (CLASS 39. CLOTHING.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Mar. 12, 1923. Serial No. 177,307.

Lorraine
SEERSUCKER

Particular description of goods.—Men's Suits, Coats, and Pants, Also Ladies' Skirts and Suits and Coats.
Claims use since April, 1917.

169,720. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAURICE LEVY, New York, N. Y. Filed Mar. 13, 1923. Serial No. 177,393.

Veri-Flat

Particular description of goods.—Powder Puffs.
Claims use since Feb. 1, 1922.

169,721. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NATIONAL ACME COMPANY, Cleveland, Ohio. Filed Mar. 13, 1923. Serial No. 177,401.

GRIDLEY

Particular description of goods.—Metal-Working Machines and Tools—Namely, Screw Machines, Lathes, Nut and Bolt Machines, Thread-Cutting Tools, Drills and Drilling Tools, Box Tools, Shaving Tools, Knurling Tools, Cutting Tools, Forming Tools, Cutting-Off Tools, and Shaping Tools.
Claims use since 1909.

169,722. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NATIONAL ACME COMPANY, Cleveland, Ohio. Filed Mar. 13, 1923. Serial No. 177,402.

GRIDLEY AUTOMATICS

Particular description of goods.—Metal-Working Machines and Tools—Namely, Screw Machines, Lathes, Nut and Bolt Machines, Thread Cutting Tools, Drills and Drilling Tools, Box Tools, Shaving Tools, Knurling Tools, Cutting Tools, Forming Tools, Cutting Off Tools, and Shaping Tools.
Claims use since 1909.

169,723. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HENRY M. LEVIN, doing business as Rawhide Products Distributing Co., Kenilworth, N. J. Filed Mar. 17, 1923. Serial No. 177,609.

GRIPPER

Particular description of goods.—Blow-Out Patches for Pneumatic Tires and Fan Belts for Automobile Engines, Brake Linings, Transmission Linings, Tube-Patch Kits, and Rim Liners.
Claims use since November, 1921.

169,724. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LITTERER BROS. MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 19, 1923. Serial No. 177,681.

LITTERER BROS. MFG. CO. FERRO METAL CHICAGO ILLINOIS

Particular description of goods.—Steel Toilet Partitions.
Claims use since Feb. 1, 1922.

169,725. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUTO PEDAL PAD CO., New York, N. Y. Filed Mar. 27, 1923. Serial No. 178,085.

PERFECTION

Particular description of goods.—Automobile Pedal Pads and Accelerator Heel Rests.
Claims use since Jan. 1, 1918.

169,726. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLARK-MESKER COMPANY, Cleveland, Ohio. Filed Apr. 20, 1923. Serial No. 179,398.

CLEVELAND

Particular description of goods.—Milling Machines, Relieving Machines, and Profile Grinders.
Claims use since July 10, 1919.

169,727. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 26, 1923. Serial No. 179,741.

Radio WORLD WIDE WIRELESS Corporation of America

Particular description of goods.—Radio Receiving, Detecting, Amplifying, and Transmitting Apparatus and Parts Thereof.
Claims use since Apr. 19, 1922.

169,728. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MCKIBBIN, DRISCOLL & DORSEY, INC., St. Paul, Minn. Filed Apr. 16, 1921. Serial No. 146,266.

McKibbin Protecto In-Bands

Particular description of goods.—Hatbands.
Claims use since Apr. 1, 1920.

169,729. (CLASS 39. CLOTHING.) ALLIGATOR OIL CLOTHING COMPANY, St. Louis, Mo. Filed Sept. 16, 1921. Serial No. 152,976.

ALLIGATORS NEVER LEAK

Particular description of goods.—Waterproof Clothing—Namely, Raincoats, Capes, Jackets, Overalls, Hats, Caps, and Ponchos.
Claims use since July 1, 1910.

169,730. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BAY STATE STAMPING COMPANY, Worcester, Mass. Filed Oct. 24, 1921. Serial No. 154,471.

BENNETT'S

Particular description of goods.—Machine and Bearing Lubricators, Oil-Hole Covers, Oil Cups, Grease Cups, Emery-Wheel Dressers, Tools and Cutters for Turning and Truing Emery Wheels and Screw-Driver Ferrules.
Claims use since January, 1900.

169,731. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Dec. 27, 1921. Serial No. 157,124.

MANHATTAN

Particular description of goods.—Suspenders and Belts.
Claims use since Nov. 10, 1921.

169,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAKER ICE CREAM COMPANY, Cleveland, Ohio. Filed Jan. 5, 1922. Serial No. 157,511.

BAKERS HYGRADE ICE CREAM

Particular description of goods.—Ice Cream, Water Ices, and Sherbets.
Claims use since about June 1, 1919.

169,733. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WESTCOTT RULE COMPANY, INCORPORATED, Seneca Falls, N. Y. Filed Jan. 28, 1922. Serial No. 158,588.

Snap

Particular description of goods.—Folding Rules.
Claims use since September, 1921.

169,734. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AUGUSTE BUFFET, Paris, France. Filed Feb. 18, 1922. Serial No. 159,492.

Auguste
BUFFET
PARIS

Particular description of goods.—Musical Instruments—Namely, Clarinets, Hautboys, English Horns, Bagpipes, Drone Pipes, Bassoons, Low and Alto Clarinets, Flutes (Big and Small), Flageolets, Fifes, Trumpets, Horns, Bugles, Barytone and Alto Horns, Bass Horns and Counterbasses, Helicons, Trombones, Saxophones, Clarions, Hunting Horns, Cymbals, and Reeds, and Parts for These Instruments.
Claims use since Aug. 1, 1919.

169,735. (CLASS 39. CLOTHING.) SHAFT PIERCE SHOE COMPANY, Faribault, Minn. Filed Mar. 3, 1922. Serial No. 160,154.



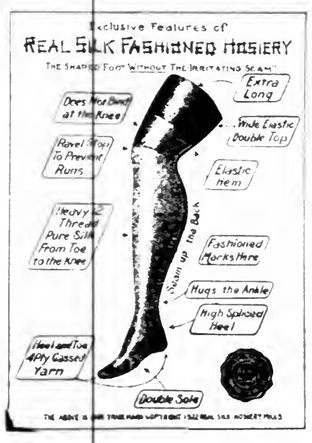
Particular description of goods.—Fabric, Leather, Rubber, and Rubber Composition Shoes.
Claims use since about Feb. 1, 1922.

169,736. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CARLISLE TIRE CORPORATION, Stamford, Conn. Filed Mar. 10, 1922. Serial No. 160,487.



Particular description of goods.—Pneumatic Vehicle Tires.
Claims use since Feb. 17, 1922.

169,737. (CLASS 39. CLOTHING.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed Mar. 17, 1922. Serial No. 160,836.



Particular description of goods.—Hosiery.
Claims use since Feb. 23, 1922.

169,738. (CLASS 38. PRINTS AND PUBLICATIONS.) J. F. WIGGIN, doing business as Kyograph Photo System, New York, N. Y. Filed Apr. 11, 1922. Serial No. 162,153.



Particular description of goods.—Photographs.
Claims use since June 1, 1905.

169,739. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FREEMAN DAUGHADAY CO., doing business as Providence Collar Button Company, Chartley, Mass., and Providence, R. I. Filed Apr. 13, 1922. Serial No. 162,251.



Particular description of goods.—Collar Buttons Made of or Plated with Precious Metals.
Claims use since Feb. 11, 1922.

169,740. (CLASS 39. CLOTHING.) THE OHIO GLOVE & MANUFACTURING COMPANY, Columbus, Ohio. Filed Apr. 18, 1922. Serial No. 162,502.



Particular description of goods.—Fabric Gloves, Leather Gloves, and Gloves Made of Leather and Fabric.
Claims use since Jan. 2, 1922.

169,741. (CLASS 39. CLOTHING.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Apr. 19, 1922. Serial No. 162,537.

EVERFAST

Particular description of goods.—Outer Wash Garments for Men, Women, and Children.
Claims use since Apr. 10, 1922.

169,742. (CLASS 37. PAPER AND STATIONERY.) WEST DISINFECTING COMPANY, New York, N. Y. Filed Apr. 21, 1922. Serial No. 162,706.



Particular description of goods.—Paper Towels.
Claims use since Mar. 11, 1922.

169,743. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE "81" TIRE STORES, Birmingham, Ala. Filed May 13, 1922. Serial No. 163,831.

THE "81" TIRE STORES

Particular description of goods.—Tires and Inner Tubes of Rubber.
Claims use since Feb. 1, 1922.

169,744. (CLASS 39. CLOTHING.) HARRY C. ROSENBERG, Waterbury, Conn. Filed June 5, 1922. Serial No. 165,037.

BURTS FINEST FITTING FOOTWEAR

Particular description of goods.—Shoes Made of Leather and Fabric.
Claims use since 1912.

169,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN WALDOW, doing business as South Side Drug Co., Buffalo, N. Y. Filed July 20, 1922. Serial No. 167,154.

LACTO-ASPIRIN

Particular description of goods.—Tablets and Capsules for Headaches, Colds, and Neuralgia.
Claims use since May 1, 1922.

169,746. (CLASS 37. PAPER AND STATIONERY.) HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed Aug. 16, 1922. Serial No. 168,300.

Old Hampshire Vellum

Particular description of goods.—Printing and Writing Paper.
Claims use since Feb. 1, 1912.

169,747. (CLASS 37. PAPER AND STATIONERY.) HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed Aug. 16, 1922. Serial No. 168,307.

Old Hampshire Lawn

Particular description of goods.—Printing and Writing Paper.
Claims use since Apr. 1, 1916.

169,748. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDREWS BROTHERS COMPANY, INC., Pittsburgh, Pa. Filed Feb. 17, 1923. Serial No. 176,153.

MECCA

Particular description of goods.—Fresh Citrous Fruits, Dried Fruits, Evaporated Fruits, Canned Vegetables, Fresh Vegetables.
Claims use since May 3, 1922.

LABELS

REGISTERED JUNE 26, 1923.

26,104.—*Title:* OLIO D'OLIVA PURO. For Imported Italian Olive Oil. ANTONIO ANTONIADIS, New York, N. Y. Published August 1, 1922.

26,105.—*Title:* MYRYKLE FRUIT BALLS. For Glass Jars Containing Medicated Fruit Balls Having Laxative Properties. MARY A. BAINBRIDGE, Caldwell, N. J. Published April 10, 1923.

26,106.—*Title:* BEVERLEY CLUB. For Ginger Ale. BARTOW BEVERAGES, INC., Nashville, Tenn. Published February 24, 1923.

26,107.—*Title:* BROWNIES ROOT BEER. For Root Beer, a Nonintoxicating Beverage. EDWARD H. BROWN, Minneapolis, Minn. Published December 1, 1922.

26,108.—*Title:* BLOK-TITE. For Adhesives. CAPITAL RODEWITE COMPANY, INCORPORATED, South Washington, Va. Published January 19, 1923.

26,109.—*Title:* COLONIAL MUSH. For Corn Meal Mush. COLONIAL MUSH COMPANY, Chicago, Ill. Published May 1, 1923.

26,110.—*Title:* NEW LUSTER FURNITURE POLISH. For Liquid Polishing Substance. FRED W. CROSS & CO., Binghamton, N. Y. Published December 26, 1922.

26,111.—*Title:* FERNDALE. For Butter. DAVIS-CLEAVER PRODUCE COMPANY, Quincy, Ill. Published March 28, 1923.

26,112.—*Title:* DELLO INK. For Containers Holding Ink. DELLO INK CORP., New York, N. Y. Published March 21, 1923.

26,113.—*Title:* FASHUNFIT. For Union Suits. GEO. ENGLISH JR. & CO., Shamokin, Pa. Published April 21, 1923.

26,114.—*Title:* AUNT SUSAN'S FAMOUS HOMEMADE SANDWICHES. For Sandwiches. FACTORY SERVICE COMPANY, New York, N. Y. Published March 26, 1923.

26,115.—*Title:* LUNA DE ORO. For Flour. GREAT WEST MILL AND ELEVATOR COMPANY, Amarillo, Tex. Published April 13, 1923.

26,116.—*Title:* SUNDAY. For Canned Sauerkraut. HAMILTON & SONS CANNING CO., New London, Wis. Published February 1, 1923.

26,117.—*Title:* TESTO. For Canned Sauerkraut. HAMILTON & SONS CANNING CO., New London, Wis. Published February 1, 1923.

26,118.—*Title:* HAMILTON'S. For Canned Sauerkraut. HAMILTON & SONS CANNING CO., New London, Wis. Published February 1, 1923.

26,119.—*Title:* MONDEL. For Canned Sauerkraut. HAMILTON & SONS CANNING CO., New London, Wis. Published February 1, 1923.

26,120.—*Title:* HOLLYWOOD. For Hose. HARRINGTON & WARING, New York, N. Y. Published March 7, 1923.

26,121.—*Title:* HARTMAN'S LINIMENT. For Liniment. GIDEON HARTMAN, doing business as Hartman Co., Altoona, Pa. Published June 1, 1922.

26,122.—*Title:* DE LUXE. For Canned Peas. HAYES & CO., INC., Boston, Mass. Published May 14, 1923.

26,123.—*Title:* BLUE-DOT. For Malt Sirup. LEE M. HIRSCHLER, doing business as Hirschler & Co., Cincinnati, Ohio. Published April 18, 1923.

26,124.—*Title:* INDIAN APPLE-US. For Cartons for Gloves. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Published September 26, 1922.

26,125.—*Title:* KIDDIE KUP. For Children's Cups. INTERNATIONAL SILVER COMPANY, Meriden, Conn. Published May 15, 1923.

26,126.—*Title:* CUT-TO FIT-THE-MOUTH. For Candy. JAMES BROTHERS, Atlantic City, N. J. Published May 9, 1923.

26,127.—*Title:* KELLOGG'S KRUMBLES. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published April 30, 1923.

26,128.—*Title:* KRANKS SKIN-HEALTH FACE POWDER. For Face Powder. ALFRED J. KRANK, St. Paul, Minn. Published November 23, 1922.

26,129.—*Title:* EVERY SIP IS DELICIOUS. For Coffee. THE LEVERING COFFEE COMPANY, Baltimore, Md. Published May 11, 1923.

26,130.—*Title:* ROYALL'S FRENCH SALAD DRESSING. For French Salad Dressing. CHARLES F. MATTLAGE & SONS, INC., New York, N. Y. Published March 1, 1923.

26,131.—*Title:* STERLING ICE CREAM. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Metropolitan Ice Cream Co., Newark, N. J. Published April 16, 1923.

26,132.—*Title:* MITY NICE BREAD. For Wrappers for Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to B. C. Reich & Son, Fort Worth, Tex. Published April 24, 1923.

26,133.—*Title:* WEBER. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Weber Ice Cream Co., Jefferson City, Mo. Published April 16, 1923.

26,134.—*Title:* VALDAIR CREAMERY BUTTER. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Valley Dairy Products Co., Appleton, Wis. Published April 27, 1923.

26,135.—*Title:* RELIABLE BRAND. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to S. C. Jensen Creamery Co., Milwaukee, Wis. Published March 24, 1923.

26,136.—*Title:* SUGAR LOAF. For Wrappers for Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Hastings Bakery, Hastings, Nebr. Published May 9, 1923.

26,137.—*Title:* HEALTH-O. For Rubbing and Massage Alcohol. THE MIHALOVITCH CO., Cincinnati, Ohio. Published February 28, 1923.

26,138.—*Title:* WHITE HORSE BRAND NO. 1 COMMON LIME. For Lime Barrels. MISSISQUOI LIME WORKS, INC., St. Albans and Highgate Springs, Vt. Published March 15, 1923.

26,139.—*Title:* RED INDIAN BRAND FINISHING LIME. For Lime Barrels. MISSISQUOI LIME WORKS, INC., St. Albans and Highgate Springs, Vt. Published March 15, 1923.

26,140.—*Title:* "NO-LEAK-O" OIL SEALING. For Piston Rings. NO-LEAK-O PISTON RING COMPANY, Muskegon, Mich. Published May 1, 1923.

26,141.—*Title:* CHE-RENE. For a Carbonated Beverage. PABST CORPORATION, Milwaukee, Wis. Published May 14, 1923.

26,142.—*Title:* GRAP-DI VINE. For a Carbonated Beverage. PABST CORPORATION, Milwaukee, Wis. Published May 14, 1923.

26,143.—*Title:* THE OMAR LOAF. For Bread. EDWARD B. PAYNE, Berkeley, Calif. Published May 14, 1923.

26,144.—*Title:* BROOK-HILL WATER. For Bottled Water and Water Supplied in Other Containers. HARRY L. PHILLIPS & ALVERDA B. PHILLIPS, Wichita, Kans. Published May 1, 1923.

26,145.—*Title:* POKODOT. For Pancake Flour. POKODOT CEREAL COMPANY, Fargo, N. Dak. Published April 28, 1923.

26,146.—*Title:* DWARFIES. For Breakfast Food. POKODOT CEREAL COMPANY, Fargo, N. Dak. Published April 28, 1923.

26,147.—*Title:* REAL SILK GUARANTEED HOSIERY. For Hosiery. REAL SILK HOSIERY MILLS, Indianapolis, Ind. Published May 21, 1923.

26,148.—*Title:* REAL SILK SUPER-SERVICE SOCKS. For Hosiery. REAL SILK HOSIERY MILLS, Indianapolis, Ind. Published May 21, 1923.

26,149.—*Title:* MI TE GOOD. For Tobacco. STEACY-SHAFFFER TOBACCO CO. INC., York, Pa. Published May 18, 1923.

26,150.—*Title:* SUPREME. For Malt Extract. LOUIS STETELMAN, Columbus, Ohio. Published March 3, 1923.

26,151.—*Title:* CEDAR CREEK STEAMED CRAB. For Steamed Crabs. U. S. STEWART & BRO., Baltimore, Md. Published April 28, 1923.

26,152.—*Title:* CANYON CREST. For Valencias. J. H. STRAIT & COMPANY, Redlands, Calif. Published April 16, 1923.

26,153.—*Title:* ALASKAN. For Sugar Wafers. TAGGART BAKING COMPANY, Indianapolis, Ind. Published April 11, 1923.

26,154.—*Title:* T-O-T TURNOVER GAS TOASTER. For Bread Toasters. TURN-OVER-TOASTER COMPANY, INC., New York, N. Y. Published December 1, 1922.

26,155.—*Title:* PITIRRE. For Paper Bags. THE U. S. PAPER GOODS CO., Cincinnati, Ohio. Published May 1, 1923.

26,156.—*Title:* ULMANITE POLISH. For a Polish for All Painted and Varnished Surfaces. LEWIS S. ULMER, Pittsburgh, Pa. Published April 30, 1923.

26,157.—*Title:* AFTER SHAVE. For an After Shaving Lotion. HARRY E. VALENTINE, doing business as After-Shave Laboratories, Los Angeles, Calif. Published April 23, 1923.

26,158.—*Title:* TEMPT-HER. For Candy. CHAS. WEINHAGEN & CO., St. Paul, Minn. Published August 1, 1922.

26,159.—*Title:* AUTOMATIC SALESMAN. For a Machine Vending Packages of Confection. OLLIE A. WILLIAMS, doing business as Silver King Novelty Co., Indianapolis, Ind. Published November 25, 1922.

26,160.—*Title:* UMACO. For Coffee. J. ZINSMEISTER & SONS, INCORPORATED, Louisville, Ky. Published March 1, 1923.

PRINTS

REGISTERED JUNE 26, 1923.

6,763.—*Title:* PETER PORKER SAYS. For Goods. ALLIED PACKERS, INC., Chicago, Ill. Published July 30, 1922.

6,764.—*Title:* SUNBEAM. For Pure Food Products. AUSTIN, NICHOLS & Co., Brooklyn, N. Y. Published May 1, 1922.

6,765.—*Title:* "B. V. D." RED WOVEN LABEL. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 19, 1923.

6,766.—*Title:* THERE IS ONLY ONE "B. V. D." For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 22, 1923.

6,767.—*Title:* BROWNIES ROOT-BEER. For Root Beer, a Nonintoxicating Beverage. EDWARD H. BROWN, Minneapolis, Minn. Published December 1, 1922.

6,768.—*Title:* PIONEERS OF SAFETY. For First-Mortgage Real-Estate Gold Bonds. COCHRAN & MCCLUER COMPANY, Chicago, Ill. Published April 8, 1923.

6,769.—*Title:* COLUMBIA NEW PROCESS RECORDS. For Graphophone Records. COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Published February 1, 1923.

6,770.—*Title:* A VACANCY IN THE DEPARTMENT OF THE INTERIOR. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published May 10, 1923.

6,771.—*Title:* HARTMANN CUSHION TOP WARDROBE TRUNKS. For Wardrobe Trunks. HARTMANN TRUNK COMPANY, Racine, Wis. Published May 21, 1923.

6,772.—*Title:* PICKLES IN PATTERNS. For Heinz 57 Varieties (Food Products.) H. J. HEINZ COMPANY, Pittsburgh, Pa. Published February 3, 1923.

6,773.—*Title:* FINE FLAVOR COMES FROM FINE QUALITY. For Coffee. HILLS BROS., San Francisco, Calif. Published April 17, 1923.

6,774.—*Title:* THE ORIGINAL VACUUM PACK. For Coffee. HILLS BROS., San Francisco, Calif. Published April 13, 1923.

6,775.—*Title:* FLAVOR IS THE HIDDEN DIFFERENCE. For Coffee. HILLS BROS., San Francisco, Calif. Published April 20, 1923.

6,776.—*Title:* THE HIDDEN DIFFERENCE. For Coffee. HILLS BROS., San Francisco, Calif. Published April 10, 1923.

6,777.—*Title:* THE HIDDEN DIFFERENCE IS FLAVOR! For Coffee. HILLS BROS., San Francisco, Calif. Published April 6, 1923.

6,778.—*Title:* THE ORIGINAL VACUUM PACK KEEPS ITS FINE FLAVOR FRESH FOR YOU. For Coffee. HILLS BROS., San Francisco, Calif. Published April 24, 1923.

6,779.—*Title:* KRANK'S "POMPA" COMB. For Combination Comb and Brush for Training the Hair. ALFRED J. KRANK, St. Paul, Minn. Published May 14, 1923.

6,780.—*Title:* SO EASY TO USE. For Allen's Foot-Ease, a Toilet Preparation. ALLEN S. OLMSTED, Le Roy, N. Y. Published April 24, 1923.

6,781.—*Title:* "ONYX" HOSIERY. For Hosiery. "ONYX" HOSIERY INC., New York, N. Y. Published May 1, 1923.

6,782.—*Title:* SHE LOOKS AS YOUNG AS EVER. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published May 20, 1923.

6,783.—*Title:* EXCLUSIVE FEATURES OF REAL SILK GUARANTEED HOSIERY. For Hosiery. REAL SILK HOSIERY MILLS, Indianapolis, Ind. Published April 23, 1923.

6,784.—*Title:* JANEZ LOOPS. For a Protector and Support for Earrings. Mrs. EVA COULSON STOUGH, San Francisco, Calif. Published April 21, 1923.

6,785.—*Title:* FOLLY TOWNS. For Candy. UNIVERSAL THEATRES CONCESSION CO., Chicago, Ill. Published April 15, 1923.

6,786.—*Title:* TARTAROFF. For Preparations for Removing Tartar Film and Discolorations from the Teeth. WALTER H. WADDELL and BERTHA WADDELL, doing business as Tartaroff Co., Chicago, Ill. Published May 1, 1923.

REISSUES.

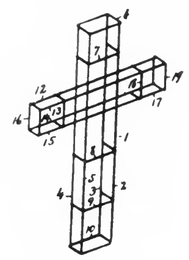
JUNE 26, 1923.

15,634. WINDOW-SASH WEIGHT. CHRISTIAN L. SCHNEIDER, Davenport, Iowa. Filed Mar. 14, 1923. Serial No. 625,119. Original No. 1,426,224, dated Aug. 15, 1922, Serial No. 436,193, filed Jan. 10, 1921. 5 Claims. (Cl. 16—219.)



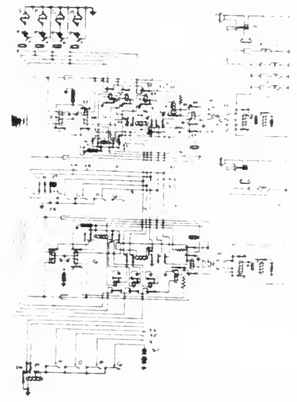
1. A window sash weight comprising a rectangular body having a hook arranged at its bottom end and parallel arms extending from its other end and further having a longitudinally centrally arranged recess that opens out at the base of said arms, and a pulley mounted in the upper ends of the arms so as to be spaced from the open end of said recess, and weights adapted to be passed under the pulley and deposited in the open end of the recess.

15,635. WIRE FRAME. JESSE J. WILLIAMS, Utica, N. Y. Filed May 12, 1921. Serial No. 469,076. Original No. 1,302,888, dated May 6, 1919, Serial No. 112,079, filed July 29, 1916. 1 Claim. (Cl. 44—12.)



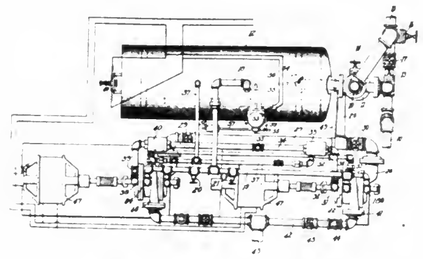
A florist's form comprising a pair of frames rectangular in cross section, each frame comprising outline wires and brace wires, one of said frames being disposed within the other and at right angles thereto, the adjacent portions of the outline wires serving as braces for the respective outline wires of the respective frames.

15,636. TELEPHONE SYSTEM. SIDNEY A. BEYLAND, Long Meadow, N. Y., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 26, 1921. Serial No. 455,987. Original No. 1,298,441, dated Mar. 25, 1919, Serial No. 35,757, filed June 23, 1915. 22 Claims. (Cl. 179—35.)



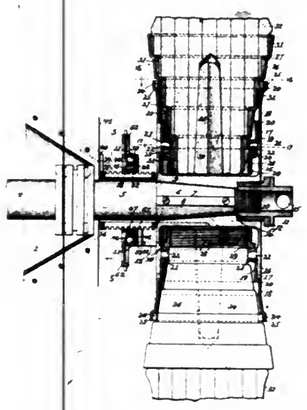
18. In a telephone system, the combination of a ringing circuit, a ringing relay, a ringing key, a conductor normally connecting the ringing key to the ringing relay, a second relay controlling said conductor, each of said relays being controlled by said ringing key and a switch in the ringing circuit controlling each of said relays.

15,637. WET VACUUM PUMPING APPARATUS. IRVING C. JENNINGS, South Norwalk, Conn., assignor to Nash Engineering Company, South Norwalk, Conn., a Corporation of Connecticut. Filed May 15, 1923. Serial No. 639,189. Original No. 1,447,854, dated Mar. 6, 1923, Serial No. 774,953, filed June 15, 1917. 19 Claims. (Cl. 103—26.)



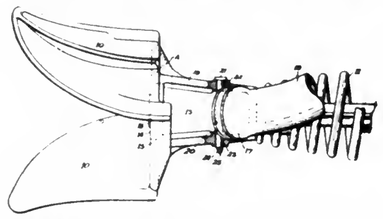
1. A water and air pumping apparatus for use in a vacuum steam heating system comprising a receiver for air and water, a pump for withdrawing water from said receiver and a hydro-turbine pump for withdrawing air from said receiver, and means for supplying said latter pump with make-up water from water in the system.

15,638. VARIABLE-PITCH PROPELLER FOR AIRPLANES. CLARENCE LYMAN PARKER, Los Angeles, Calif. Filed Aug. 15, 1922. Serial No. 582,035. Original No. 1,386,274, dated Aug. 2, 1921, Serial No. 417,915, filed Oct. 19, 1920. 29 Claims. (Cl. 170—163.)



1. A propeller for airplanes, comprising a hub for receiving the airplane drive shaft, said hub being provided with sockets, a stepped taper sleeve in each socket with the large end of the sleeve outermost, a propeller blade for each socket, and a stepped ferrule for each propeller blade adapted to enter a stepped socket.

15,639. AUTOMATIC TRAIN-PIPE CONNECTOR. JOSEPH V. ROBINSON, New York, N. Y. Filed May 14, 1920. Serial No. 381,491. Original application filed Apr. 7, 1914, Serial No. 830,234. Renewed Aug. 3, 1917, Serial No. 184,358. Original No. 1,300,652, dated Apr. 15, 1919. 14 Claims. (Cl. 285—58.)

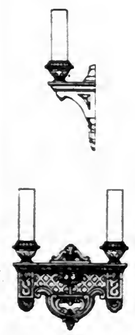


1. In an automatic train pipe connector, the combination of a coupling head provided with a face and having an aperture therein, a suitable support for said head including a hollow shank extending rearwardly from the head, a conduit in said shank and aperture for directing a fluid to the head, said conduit being curved laterally of the head out of said shank, a flexible pipe connected to said conduit, and means for maintaining the conduit in said shank and aperture and for permitting removal therefrom while said head is coupled up in service.

DESIGNS.

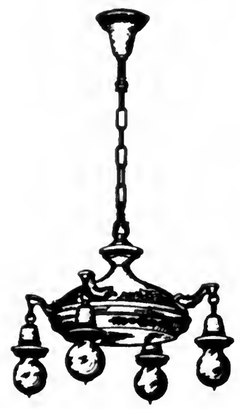
JUNE 26, 1923.

62,560. LIGHTING-FIXTURE PART. PERCY I. ANSORGE, Brooklyn, N. Y. Filed Aug. 1, 1922. Serial No. 3,261. Term of patent 7 years.



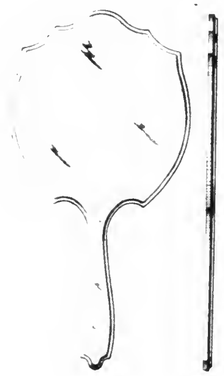
The ornamental design for a lighting fixture part as shown and described.

62,561. LIGHTING FIXTURE. ROBERT SAYER ASPINWALL, Detroit, Mich. Filed Apr. 18, 1921. Serial No. 462,449. Term of patent 3½ years.



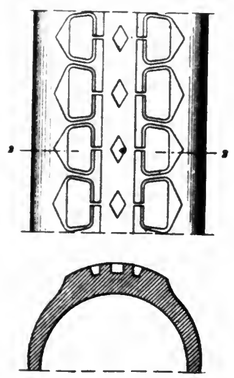
The ornamental design for a lighting fixture, as shown.

62,562. MIRROR, BRUSH, OR SIMILAR ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Apr. 14, 1922. Serial No. 1,761. Term of patent 14 years.



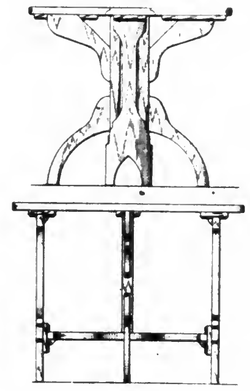
The ornamental design for a mirror, brush, or similar article, as shown.

62,563. TIRE TREAD. WILLIAM D. CARNAL, Akron, Ohio, assignor to Western Tire Company, Omaha, Nebr., a Copartnership. Filed Sept. 7, 1922. Serial No. 3,644. Term of patent 3½ years.



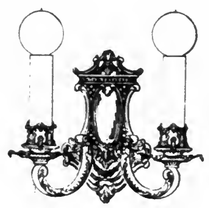
The ornamental design for a tire tread, as shown.

62,564. TABLE. FREDERICK A. COADY, Long Beach, Calif. Filed Mar. 4, 1922. Serial No. 1,030. Term of patent 7 years.



The ornamental design for a table, as shown.

62,565. LIGHTING FIXTURE. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,919. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

62,566. WATCH MOVEMENT FRAME. WILLIAM W. DUDLEY, Lancaster, Pa. Filed Oct. 2, 1922. Serial No. 3,864. Term of patent 14 years.



The ornamental design for a watch movement frame.

62,567. TEXTILE FABRIC. HAROLD B. FELDMAN, New York, N. Y., assignor to Arden Mills, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 27, 1922. Serial No. 4,726. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

62,568. SPINDLE FOR LIGHTING FIXTURES. RUTH L. GERTH, Minneapolis, Minn., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 27, 1922. Serial No. 1,405. Term of patent 14 years.



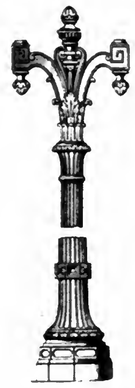
The ornamental design for a spindle for lighting fixtures, as shown.

62,569. SPINDLE FOR LIGHTING FIXTURES. RUTH L. GERTH, Minneapolis, Minn., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 27, 1922. Serial No. 1,406. Term of patent 14 years.



The ornamental design for a spindle for lighting fixtures, as shown.

62,570. LAMP STANDARD. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 22, 1922. Serial No. 3,173. Term of patent 14 years.



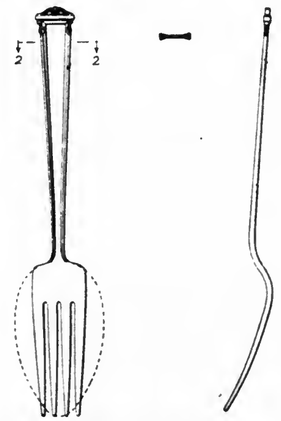
The ornamental design for a lamp standard as shown.

62,571. BOTTLE. LOUIS J. ISOLA, Boston, Mass., assignor to P. Pastene & Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1922. Serial No. 2,468. Term of patent 14 years.



The ornamental design for a bottle, as shown.

62,572. FORK OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Sept. 16, 1921. Serial No. 501,201. Term of patent 14 years.



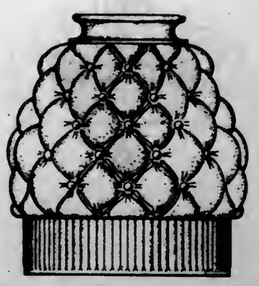
The ornamental design for a fork or similar article as shown.

62,573. SHADE FOR LIGHTING FIXTURES. NICHOLAS KOPP, Pittsburgh, Pa. Filed Aug. 25, 1922. Serial No. 3,553. Term of patent 14 years.



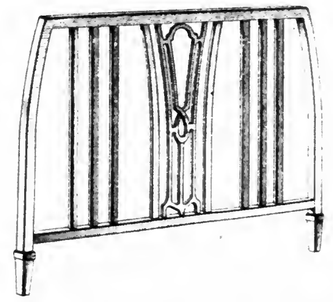
The ornamental design for a shade for lighting fixtures, as shown.

62,574. SHADE FOR LIGHTING FIXTURES. NICHOLAS KOPP, Pittsburgh, Pa. Filed Aug. 25, 1922. Serial No. 3,554. Term of patent 14 years.



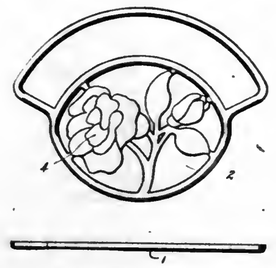
The ornamental design for a shade for lighting fixtures as shown.

62,575. END FRAME FOR A BEDSTEAD. WILLIAM LIES, Brooklyn, N. Y., assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y., a Firm composed of David Frank, John Trounstine, and William Lies. Filed June 7, 1921. Serial No. 475,740. Term of patent 3½ years.



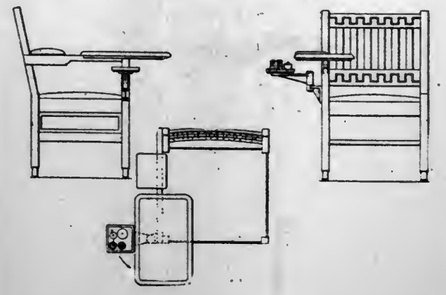
The ornamental design for an end frame for a bedstead, as shown.

62,576. AUTOMOBILE NAME PLATE. WALTER M. LONG and LOU S. LEMERE, Seattle, Wash. Filed Oct. 24, 1922. Serial No. 4,070. Term of patent 7 years.



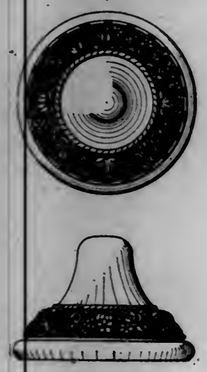
The ornamental design for an automobile name plate as shown.

62,577. LUNCH-ROOM CHAIR. MARTIN A. MALIA, Thompsonville, Conn. Filed June 17, 1922. Serial No. 2,723. Term of patent 7 years.



The ornamental design for a lunch room chair, as shown.

62,578. CANOPY FOR LIGHTING FIXTURES. GLENN E. MCFADDEN, Lakewood, Ohio. Filed July 17, 1922. Serial No. 3,102. Term of patent 14 years.



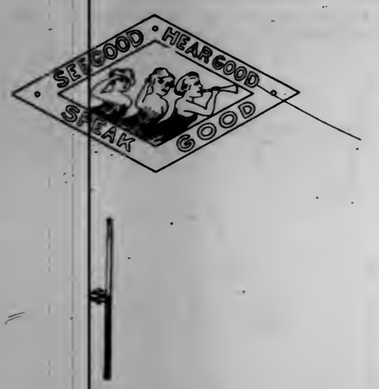
The ornamental design for a canopy for lighting fixtures, as shown.

62,579. SPECTACLES DISPLAY HOLDER. ARTHUR MENG, Cleveland, Ohio. Filed June 7, 1922. Serial No. 2,557. Term of patent 7 years.



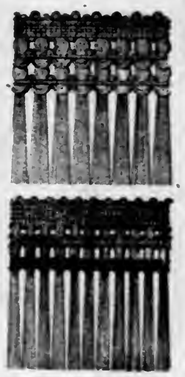
The ornamental design for a spectacles display holder, as shown.

62,580. PIN OR EMBLEM. JANNETTE MILLER, Eau Claire, Wis. Filed June 14, 1922. Serial No. 2,683. Term of patent 3½ years.



The ornamental design for an emblem or pin as shown.

62,581. FRINGE. FRANKLIN W. OEHRLE, Philadelphia, Pa., assignor to Oehrle Brothers Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1922. Serial No. 379. Term of patent 3½ years.



The ornamental design for fringe, as shown.

62,582. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,013. Term of patent 7 years.



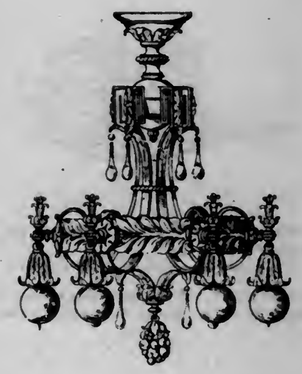
The ornamental design for a lighting fixture, substantially as shown.

62,583. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,014. Term of patent 7 years.



The ornamental design for a lighting fixture, substantially as shown.

62,584. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,015. Term of patent 7 years.



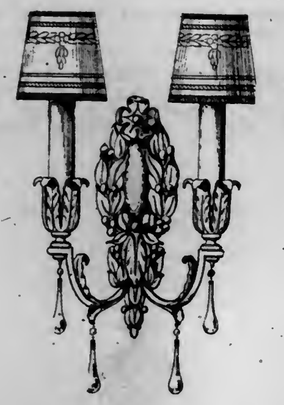
The ornamental design for a lighting fixture, substantially as shown.

62,585. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,016. Term of patent 7 years.



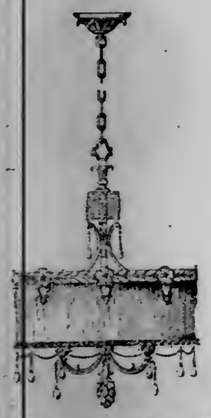
The ornamental design for a lighting fixture, substantially as shown.

62,586. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,017. Term of patent 7 years.



The ornamental design for a lighting fixture, substantially as shown.

62,587. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,018. Term of patent 7 years.



The ornamental design for a lighting fixture, substantially as shown.

62,588. LIGHTING FIXTURE. ROSCOE C. PFLEAGER, Cleveland, Ohio, assignor to Benjamin F. Klein, Cleveland, Ohio. Filed July 10, 1922. Serial No. 3,019. Term of patent 7 years.



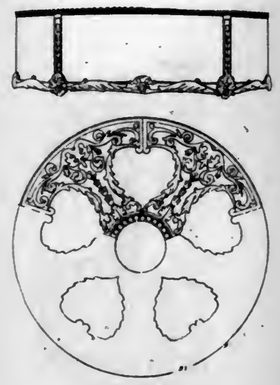
The ornamental design for a lighting fixture, substantially as shown.

62,589. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 23, 1922. Serial No. 3,529. Term of patent 3½ years.



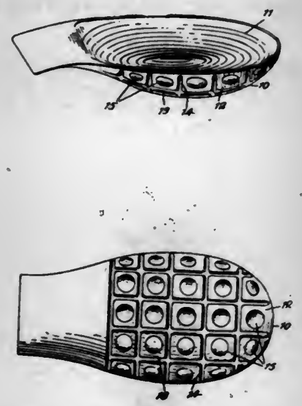
The ornamental design for a chandelier, as shown.

62,590. SHADE FOR LIGHTING FIXTURE. HENRY E. RAINAUD, Meriden, Conn., assignor to The H. E. Rainaud Company, Meriden, Conn., a Corporation of Connecticut. Filed Aug. 15, 1921. Serial No. 492,516. Term of patent 7 years.



The ornamental design for a shade for lighting fixture, as shown.

62,591. HEEL-CUSHION FOR BOOTS AND SHOES. BENJAMIN ROSS, Brooklyn, N. Y. Filed Feb. 21, 1922. Serial No. 821. Term of patent 14 years.



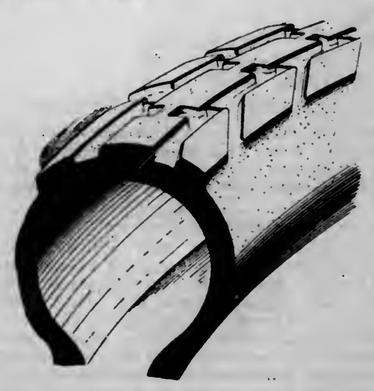
The ornamental design for heel cushions for boots and shoes, as shown.

62,592. BRACELET. WILLIAM SEOMAN, New York, N. Y. Filed Aug. 29, 1922. Serial No. 3,592. Term of patent 7 years.



The ornamental design for a bracelet, as shown.

62,593. TIRE. JOHN TENNEY, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation, New Brunswick, N. J. Filed July 23, 1921. Serial No. 487,199. Term of patent 14 years.



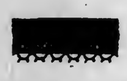
The ornamental design for a tire, as shown.

62,594. TRIMMING BRAID FOR GARMENTS. ERNEST WALBRECKER, Wyomissing, Pa., assignor to The Narrow Fabric Co., West Reading, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1923. Serial No. 5,094. Term of patent 7 years.



The ornamental design for a trimming braid for garments, as shown.

62,595. TRIMMING BRAID FOR GARMENTS. ERNEST WALBRECKER, Wyomissing, Pa., assignor to The Narrow Fabric Co., West Reading, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1923. Serial No. 5,095. Term of patent 7 years.



The ornamental design for a trimming braid for garments, as shown.

62,596. TRIMMING BRAID FOR GARMENTS. ERNEST WALBRECKER, Wyomissing, Pa., assignor to The Narrow Fabric Co., West Reading, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1923. Serial No. 5,096. Term of patent 7 years.



The ornamental design for a trimming braid for garments, as shown.

62,597. TRIMMING BRAID FOR GARMENTS. ERNEST WALBRECKER, Wyomissing, Pa., assignor to The Narrow Fabric Co., West Reading, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1923. Serial No. 5,097. Term of patent 7 years.



The ornamental design for a trimming braid for garments, as shown.

PATENTS

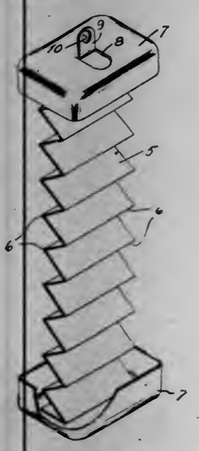
GRANTED JUNE 26, 1923.

1,459,710. COMBINED SIDEREAL AND MEAN SOLAR TIMEPIECE. SAMUEL W. BALCH, Montclair, N. J. Filed May 24, 1919. Serial No. 299,408. 7 Claims. (Cl. 58—3.)



1. The combination of indicating means for showing sidereal minutes and hours, an intermediate spindle, a gear train which connects the two sidereal indicating means through the intermediate spindle, means for showing mean solar minutes and hours, a second intermediate spindle, a gear train which connects the two mean solar indicating means through the second intermediate spindle and gearing which connects the two sets of indicating means through the two intermediate spindles whereby the two kinds of time are properly related.

1,459,711. FLYPAPER. ALFONSO A. BANKS, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,586. 2 Claims. (Cl. 200—61.)

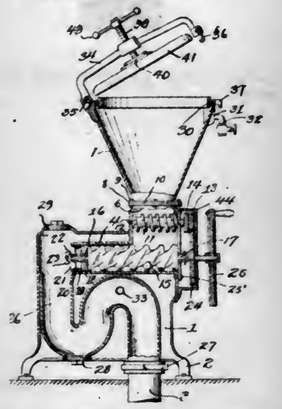


1. A device of the class described comprising a strip of material, the entire surface of which is coated with an adhesive and creased to fold alternately in opposite direction and a cup at each end of the strip to completely enclose said strip when the device is out of operation and to receive the adhesive that drips from said strip.

1,459,712. PROCESS FOR THE PRODUCTION OF BASIC STEEL. RENÉ BAUBET, Paris, France, assignor to La Société dite: Usines Metallurgiques de la Basse-Loire, Paris, France. Filed May 11, 1921. Serial No. 468,762. 10 Claims. (Cl. 75—46.)

1. The process for the production of basic steel by the treatment in the converter of grey pig iron with a silicon content above the normal, and consequently low in phosphorus, which consists in preparing in the converter before the pig iron is added, a liquid bath comprising oxides and lime, adapted to immediately oxidize the silicon of the pig iron, adding the charge of pig iron and blowing the contents of the converter with an air-blast to complete the conversion.

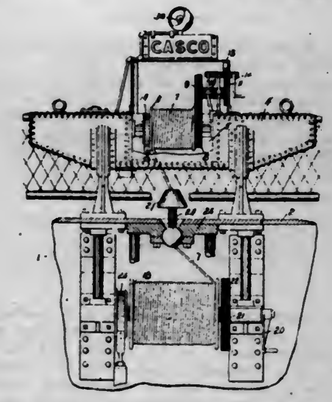
1,459,713. GARBAGE DESTROYER. LESLIE W. BEGGS, Wilmington, Del. Filed Apr. 18, 1922. Serial No. 555,178. 2 Claims. (Cl. 83—12.)



1. In a machine of the character described, a casing, a hopper arranged above and communicating with the casing, means for flushing the hopper, combined crushing, grinding and conveying means mounted in the casing beneath the hopper and communicating therewith and extending in one direction in the casing, and a trap arranged in the casing beneath and in communication with the outer end of the conveying means and extending beneath the conveying means in the direction opposite to that which the conveying means extends and having its outer end adapted for connection with a sewer pipe.

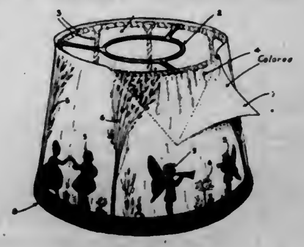
1,459,714. VESSEL LOCATING AND RECOVERING MEANS. JOSEPH T. BISHOP, Toledo, Ohio, assignor of one-half to James A. Pecord, Toledo, Ohio. Filed Dec. 6, 1920. Serial No. 428,445. 1 Claim. (Cl. 9—9.)

The combination with a vessel, of a pontoon carried thereby for free releasing movements therefrom when the vessel sinks, a windlass drum carried by the pontoon, a windlass drum carried by the vessel, adjustable means associated with each drum to resist a turning thereof in



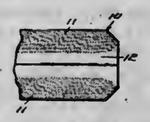
one direction, a cable connecting the two drums and winding on each, one drum being adapted to unwind before the other upon a separation of the vessel and pontoon.

1,459,715. SHADE. ELSIE ST. C. BLISS, Brookline, Mass. Filed Dec. 11, 1919. Serial No. 344,041. 1 Claim. (Cl. 240—108.)



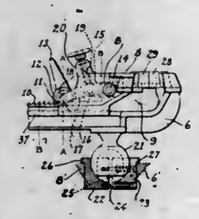
An ornamental shade for a source of light comprising an open frame, a plurality of sheets of translucent fabric stretched on said frame and secured thereto, one of said sheets of translucent material being colored, an attractive scene formed between said sheets by providing ornamental figures of opaque material and dried grasses and parts of plants so arranged between said sheets as to simulate trees and shrubbery and cooperating with said figures to form said scene and whereby the elements of said scene will appear in silhouette when viewed by the shaded light, and binding material covering the points at which said fabric sheets are secured to said frame.

1,459,716. DEVICE FOR SECURING MAILABLE MATTER. JOHN B. S. BLITCH, Beach, Ga. Filed June 1, 1921. Serial No. 474,117. 1 Claim. (Cl. 229—92.5.)



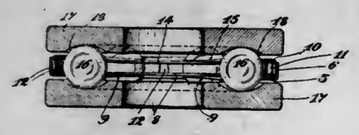
A device for securing mailable matter comprising a flexible strip folded longitudinally and provided with an adhesive spaced from the fold line of the strip, whereby when the device is applied an intermediate longitudinal portion is provided to form a severing line free from the adhesive.

1,459,717. UNIVERSAL VISE AND VISE JAW. WILLIAM GUSTAVE BLOMSTRAN, Menominee, Mich. Filed Dec. 16, 1919. Serial No. 345,218. 1 Claim. (Cl. 81—30.)



The combination in a universal vise, of the class set forth, a statonary held vise member provided with a spherical member and a longitudinally slidable rear clamping jaw, a vise-jaw clamping means, located in the longitudinally slidable rear clamping jaw, consisting of a toggle-joint operatively controlled by a hand screw threaded into the upper part of said slidable clamping jaw, and, one of the members of said toggle-joint adapted to engage angular notches formed in the upper portion of the tail end part of the lower or stationary vise member, and, means on the notch engaging member of said toggle-joint for disengaging same from engagement with the notches in the said lower vise portion; a floor stand having two half component counterpart spherical socket clamping jaws mounted in the upper end thereof to receive the spherical member mounted on the underside of said stationary held vise jaw.

1,459,718. CAGE FOR ANTIFRICTION BEARINGS. GEORGE R. BOTT, New Rochelle, N. Y., assignor to Norma Company of America, Long Island City, N. Y., a Corporation of New York. Filed July 24, 1920. Serial No. 398,772. 9 Claims. (Cl. 64—59.)

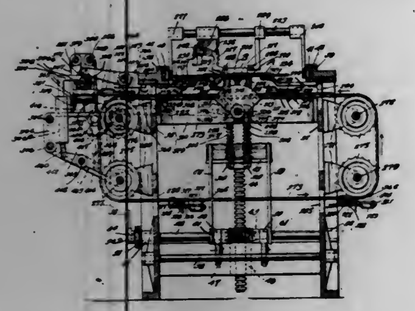


9. A bearing cage comprising separable spring metal units each having an annular body wall normally of shallow conical form, and provided upon its inner edge with spaced fingers extending in convergent relation to each other, and recesses alternately arranged with respect to said fingers, said units adapted for arrangement on opposite sides of a series of bearing elements and the body walls of said unit having means to retain the bearing elements in spaced relation to each other, said body walls adapted to be buckled inwardly beyond medial planes paralleling the common plane of rotation of the bearing elements to thereby cause the fingers of each unit to interlockingly engage with the recesses on the opposed unit and lock said units in assembled relation.

1,459,719. WRAPPING MACHINE. CHARLES E. CAMPBELL, Woodhaven, N. Y. Filed June 20, 1919. Serial No. 305,568. 12 Claims. (Cl. 93—2.)

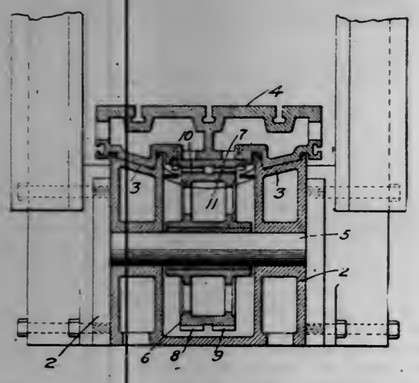
1. In a wrapping machine, a wrapper holder, feeding means adapted to singly remove wrappers from said wrapper holder and deposit said wrappers at a point removed from said wrapper holder, a support for said

wrappers, means adapted to intermittently raise said support after each removal of said wrappers to maintain the uppermost wrappers in a predetermined plane, a plurality of paste applying means disposed above said wrapper holder, each comprising a reservoir, a paste roller adapted to receive paste therefrom, means adapted to constantly rotate said paste roller, a rotary paste



applying brush member adapted to receive paste from said paste roller and apply said paste to successive wrappers at predetermined portions thereof prior to their removal from said wrapper holder, means adapted to deposit said articles to be wrapped in superimposed relation to said deposited wrappers, and means adapted to cause said wrappers to be wrapped and pasted about said articles.

1,459,720. ACTUATING MEANS FOR MACHINE PLATENS. CONRAD M. CONRADSON, Madison, Wis., assignor to Joseph T. Ryerson & Son, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1919. Serial No. 333,053. 2 Claims. (Cl. 74—27.)



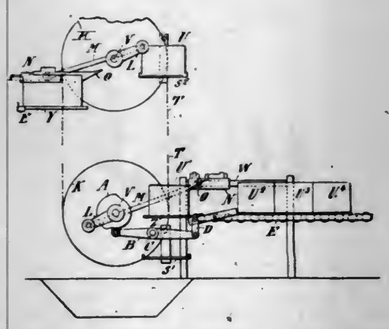
1. The combination of a frame having double walls and long journal bearings therethrough and oppositely inclined runways, a reciprocating platen having a base extending over the runways with oppositely inclined surfaces fitting those of the frame runways, a rack between the runways rigidly secured to the platen and a bull wheel having its axis journaled at both ends in said journal bearings and having sets of oppositely inclined cogs the cogs of one set being staggered relatively to the cogs of the other set and corresponding sets of cogs on the platen rack to intermesh with those on the wheel, herring bone gearing also journaled between the frame walls for driving the bull wheel whereby wear between the surfaces is taken up and chatter between the gearing and the rack is prevented.

1,459,721. METHOD OF TREATING CORRESPONDING PARTS OF PAIRS OF SHOES. NEWELL V. DYER, Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 3, 1918, Serial No. 232,278. Divided and this application filed May 18, 1920. Serial No. 382,365. 2 Claims. (Cl. 101—32.)



1. That improvement in the method of making shoe uppers which comprises the steps of preparing a pair of corresponding parts, one for a right and the other for a left shoe, assembling them with the outlines of the two parts substantially in registration with the grain side of one part in surface contact with the grain side of the other part so that each finished surface protects the other, and then simultaneously placing identifying symbols on the outer or flesh sides of the pair of parts to facilitate assembling said parts in the same pair of shoes.

1,459,722. AUTOMATIC CASE LIFT. ROLF AAGE ERSLEV, Copenhagen-Valby, Denmark. Filed Sept. 30, 1921. Serial No. 504,471. 3 Claims. (Cl. 198—20.)

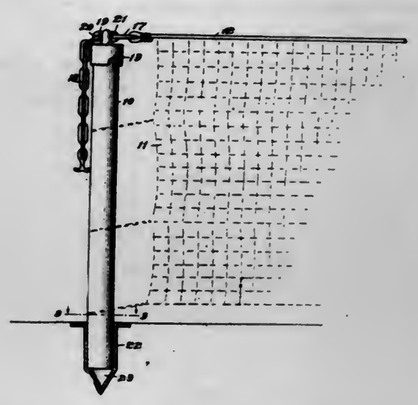


1. An automatic case-lift including horizontal shafts carrying chain-wheels, endless chains passed around said wheels, lift-chairs suspended in said chains, horizontal tracks to and from the case-lift, horizontal reciprocating sliders operated by said chain-wheels and provided with noses for engaging cases, a rocking-member for the tilting of the cases directly operated by the chain-wheel shaft in front of the entrance-track, and stopping-noses on said rocking-member; substantially as and for the purpose specified.

1,459,723. MEANS FOR SUPPORTING AND TENSIONING TENNIS NETS AND THE LIKE. DOUGLAS VICTOR ESKELL, New York, N. Y. Filed Oct. 29, 1921. Serial No. 511,251. 2 Claims. (Cl. 46—24.)

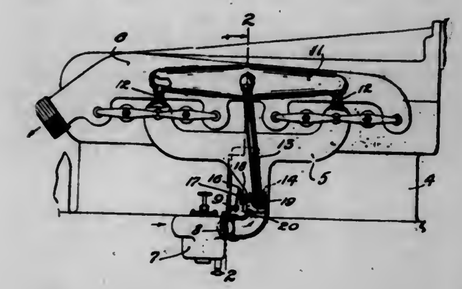
1. In a device for securing a tennis net cable under tension, the combination with an upright post and a tennis net provided with a cable, of adjustable means for securing the cable to the post, said means including a cap fitted to the upper end of the post and provided

with a U-shaped link socket projecting upwardly therefrom and a link chain secured to the cable and adapted



when the cable is stretched towards the post to have any of the links of the chain engaging in the socket thereby to hold the net in its stretched position.

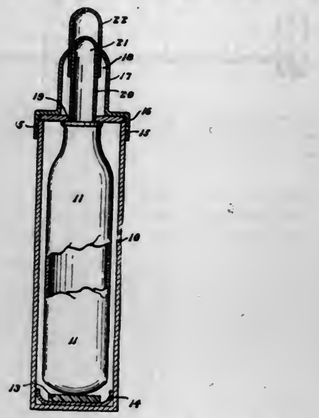
1,459,724. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. HUGO P. FESENMAIER, Morton, Minn. Filed Dec. 10, 1921. Serial No. 521,359. 2 Claims. (Cl. 123—122.)



1. An intake manifold structure for internal combustion engines having two delivery conduits, one of which is arranged to be heated while the other remains relatively cold, a valve which when closed causes the vapor to pass through the heated conduit, a carburetor arranged to deliver to the conduits of said manifold structure, a main throttle valve for controlling the delivery of vapor from said carburetor to said manifold structure, and a connection between said two valves whereby said first noted valve will be moved to open position when said throttle valve is moved to substantially an extreme open position.

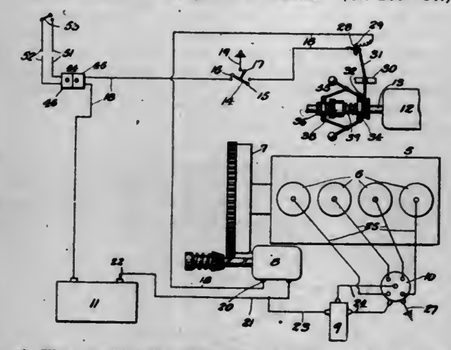
1,459,725. UNBREAKABLE NURSING BOTTLE. PHILIP W. FAEHAFER, Schuylkill Haven, Pa. Filed Oct. 2, 1922. Serial No. 591,884. 2 Claims. (Cl. 215—11.)

1. In a device of the class described, the combination of a metallic container, an inner fragile container, a perforate cap threadedly engaged with said metallic container adapted to have a liquid-tight contact with



said fragile container, a tube removably secured in said cap, and a nipple gripped between said tube and said cap.

1,459,726. APPARATUS FOR AUTOMATICALLY STARTING ENGINES OF MOTOR VEHICLES. ALBERT GOODHEIM, West Hoboken, N. J. Filed July 15, 1920. Serial No. 396,558. 4 Claims. (Cl. 200—37.)



4. The combination with the ignition and starting mechanism circuits of the engine of a motor vehicle, of make and break devices in said circuits, a governor device adapted to operate said devices to control the opening and closing of the circuit therethrough whereby said governor device will operate to automatically close the starting mechanism circuit through said make and break devices to start the engine when stalled, a switch device for controlling said starting mechanism and ignition circuits, and another switch device in the circuit to the starting mechanism, said switch device being provided with means for normally closing said circuit, means involving circuit wires for opening the circuit through said last named switch device, and a switch device in the circuit wires of said last named means for controlling the circuit to said starting mechanism.

1,459,727. BOBBIN-ANTISPLITTING DEVICE. FRED B. GUYETTE and FREDERICK M. GUNN, Guild, N. H. Filed Apr. 18, 1922. Serial No. 554,934. 2 Claims. (Cl. 242—120.)

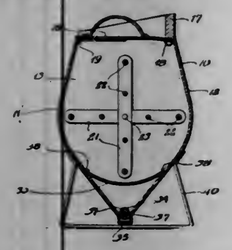
1. A device of the character specified including a bobbin stem having the usual annular reinforcing ribs and an annular groove spaced from the ribs and of a

width substantially equal to the width of one of said ribs, a split band of resilient material fitted in said



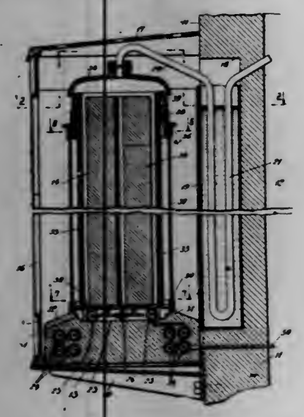
groove and of a width and thickness to fill said groove and project beyond the plane of the surface of the stem, said band adapted to reinforce and strengthen the stem.

1,459,728. WASHING MACHINE. ZENO C. HABERMAN, Watertown, S. Dak. Filed Feb. 24, 1920. Serial No. 361,076. 1 Claim. (Cl. 220—32.)



A device of the class described comprising a support, a receptacle having curved rear and front walls secured to said support, said rear wall being provided with a thickened portion extending above the upper edge of said front wall, laterally disposed flanges extending around the upper end of said receptacle on opposite sides of said thickened portion, a cover pivotally secured to the thickened portion of said rear walls, a depending flange extending from one end of said cover and adapted to engage the front wall of said receptacle, and a handle secured to the top of said cover.

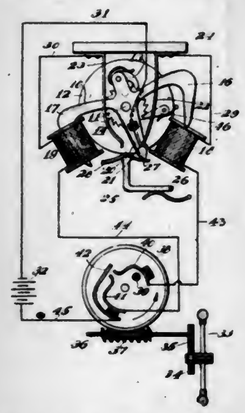
1,459,729. ELECTRIC HEATER. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Dec. 30, 1915, Serial No. 69,334. Renewed Oct. 27, 1921. Serial No. 510,947. 30 Claims. (Cl. 126—85.)



5. Heating apparatus comprising a member constructed to form a fuel combustion chamber and electro-responsive means for heating a carrier of oxygen prior to its ignition to a temperature required to initiate combustion of the fuel in said chamber and for discharging said heated carrier against said fuel to initiate combustion thereof.

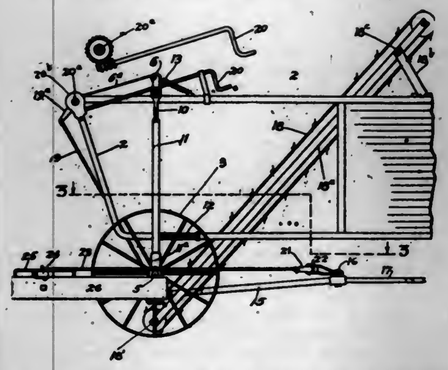
26. The herein described method of heating which comprises heating a vapor by other means than by ignition thereof to a temperature above the ignition temperature of a fuel, applying a current of the heated vapor to the fuel, and admitting air to the point of combustion.

1,459,730. OPERATING MECHANISM FOR REGISTERS. FRANK C. HARRIS, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,735. 9 Claims. (Cl. 235—92.)



1. In a device of the class described, the combination of a rocking member, a register, pawl and ratchet mechanism connecting said member and said register, a first electromagnetic device for moving said member in one direction, a second electromagnetic device for moving said member in the other direction, a source of current, an operating circuit extending from said source to each of said devices, a first switching mechanism for successively closing said circuits, a second switching mechanism actuated by said member for opening the circuit of said first device after its operation and placing the circuit of said second device in condition for operation by said first switching mechanism, and mechanical means for moving said member through the latter part of its motion in either direction.

1,459,731. FRAME FOR GATHERING MACHINES. HENRY HENDERSON, Halstad, Minn. Filed Nov. 15, 1918. Serial No. 262,671. 9 Claims. (Cl. 56—345.)



1. The combination, with a frame, and a forwardly and downwardly inclined pick-up elevator mounted there-

in, of carrying and guiding wheels for said frame, a yoke having its end portions supported by said wheels and straddling said frame and elevator, and means yieldingly connecting the sides of said frame with said yoke, and permitting relative oscillation of said yoke and said machine frame and elevator.

1,459,732. PROCESS FOR TREATING OILS. GERALD EDWIN HUGHES, Sr., Kansas City, Mo. Filed Feb. 14, 1921. Serial No. 444,935. 11 Claims. (Cl. 134—56.)

9. A method of making paints and varnishes including heating linseed oil with glue, in the proportions of one gallon of oil to one pound of glue, until action ceases, removing the glue, soaking the same in water to soften it, and heating the resultant jelly with kerosene in the proportions of one pound of the jelly to one gallon of kerosene, then mixing the treated linseed oil with the treated kerosene.

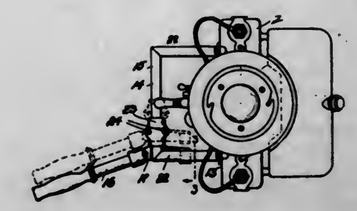
10. An oil for paints including linseed oil and kerosene treated with glue.

1,459,733. DRIER OR FILLER FOR PAINTS AND METHOD OF MAKING THE SAME. GERALD EDWIN HUGHES, Sr., Kansas City, Mo. Original application filed Feb. 14, 1921, Serial No. 444,935. Divided and this application filed Mar. 17, 1922. Serial No. 544,680. 4 Claims. (Cl. 134—57.)

2. A filler for paint including glue preliminarily treated with linseed oil and kerosene, and then combined with resin and litharge.

4. The method of preparing a filler for paints which consists in heating glue with oil, separating the residue of the glue from the oil, mixing the same with resin and litharge, heating the mixture above the melting point of the resin, allowing the result to cool, and then grinding it.

1,459,734. TILLER FOR OUTBOARD MOTORS. LOUIS J. JOHNSON, Mishawaka, Ind., assignor to Johnson Bros. Engineering Corporation, South Bend, Ind. Filed Feb. 13, 1922. Serial No. 536,319. 4 Claims. (Cl. 115—17.)



1. The combination with an outboard motor movable in a vertical plane and in a horizontal plane, of a tiller for controlling said motor in its movement, said tiller being pivotally connected to the motor and movable upwardly in a vertical plane, limiting means for limiting the downward movement of the tiller in a vertical plane and means whereby said tiller may be moved transversely and swung upwardly and downwardly in a vertical plane.

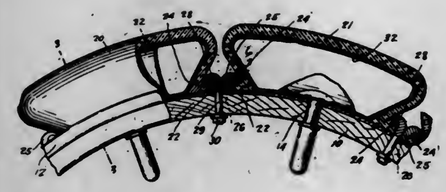
1,459,735. CLOSURE FOR ICE BAGS. HENRY P. KRAFT, Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 31, 1919. Serial No. 286,346. 4 Claims. (Cl. 24—30.5.)

1. A closure for ice bags or the like, comprising two members pivoted together at one end and adapted to embrace between them the opposite sides of the neck of the bag, one of the members being of concave form and having longitudinal beaded edges on its side which en-



gages the bag and the other being of convex form on such side whereby to enter the concavity in the first, and means for detachably connecting the free ends of said members.

1,459,736. VEHICLE WHEEL. SAMUEL KRAMER, Newark, N. J. Filed July 8, 1921. Serial No. 483,198. 3 Claims. (Cl. 152—22.)

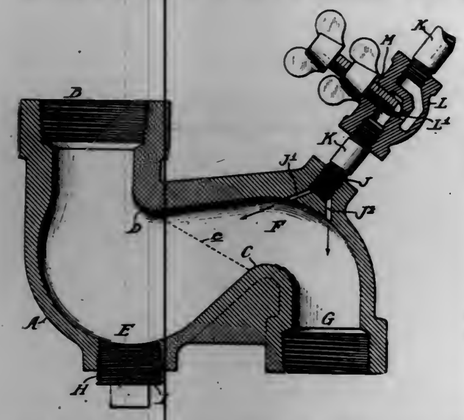


1. A vehicle wheel tread comprising, in combination with the felly and channelled rim, a plurality of segmental shoes provided with undercut ends disposed on said rim between the flanged sides thereof, an inflatable element in each shoe, independent inlet valves for each inflatable element, said valves extending through said rim and felly, means fixed to said rim for engaging one of the undercut ends of said shoes and means removably engaging said rim and felly for clamping the opposite undercut ends of said shoes.

1,459,737. TRACK SANDER. RALPH A. LIGHT and JOSEPH W. PRICE, Jr., Philadelphia, Pa., assignors to The United States Metallic Packing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 27, 1922. Serial No. 597,240. 3 Claims. (Cl. 291—11.)

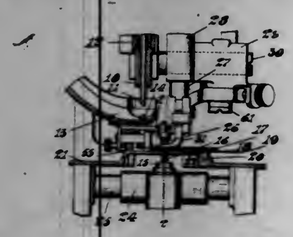
1. A track sander comprising a trap adapted to receive sand by gravity from a sand box and having a bowl wherein the sand is normally retained, a discharge opening separated from the bowl by an upwardly ex-

tending wall and a passage connecting the bowl and discharge opening over the wall, in combination with a



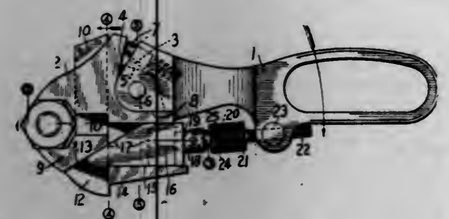
blast nozzle located in the connecting passage above the normal sand level therein and directed toward the bowl portion of the trap.

1,459,738. MACHINE FOR INSERTING EYELETS. JAMES E. MCINTIRE, Weymouth, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 20, 1919. Serial No. 339,364. 30 Claims. (Cl. 218—15.)



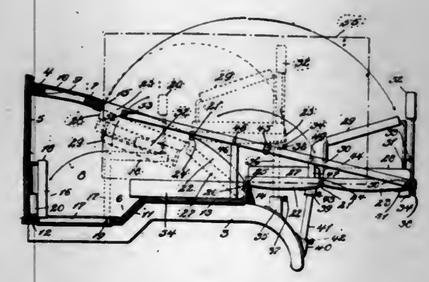
30. In a fastener-inserting machine having work-feeding mechanism, an adjustable unit comprising a gage for indicating the initial position for a leading portion of the work and means for guiding an edge of the work during the feeding thereof.

1,459,739. WRENCH. JOHN B. MENZL, Dayton, Ohio. Filed Feb. 15, 1922. Serial No. 536,615. 15 Claims. (Cl. 81—129.)



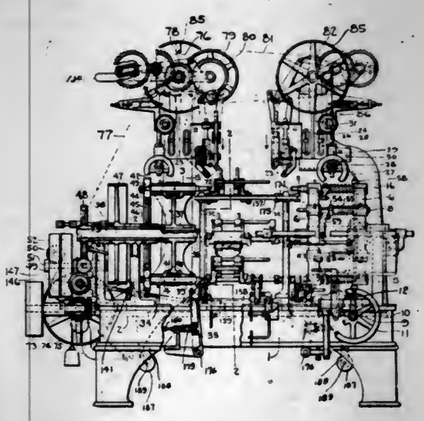
1. In a wrench, a handle for supporting and manipulating said wrench, a jaw pivotally mounted on said handle, a second jaw movable toward and from the said pivoted jaw, and a device movable relatively to said handle and controlled by the relative movement of the pivoted jaw and the handle to control the movement of said second jaw.

1,459,740. VEHICLE BODY. FRANK J. MUECK, St. Louis, Mo., assignor to The Mueck Auto Body Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 22, 1922. Serial No. 590,214. 2 Claims. (Cl. 296—66.)



1. In combination with a hollow tonneau, a closure for said tonneau composed of parts rotatively secured together, said closure rotatively secured to said tonneau at its one extremity, means of selectively securing the closure of said tonneau in a horizontal position external to said tonneau.

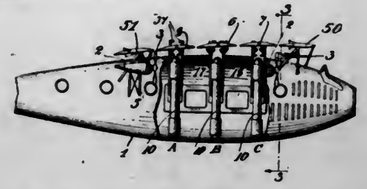
1,459,741. MACHINE FOR FINISHING FLANGED ARTICLES. JOHN M. NASH, Milwaukee, Wis. Filed Feb. 17, 1921. Serial No. 445,580. 39 Claims. (Cl. 51—145.)



1. A machine for sanding flanged members, disks and similar articles comprising means for successively presenting and continuously rotating such articles, and means for sanding the outer peripheries thereof, said last means adapted for adjustment, whereby either a cylindrical surface or a rounded corner may be produced upon the outer peripheries of said articles.

2. A machine for sanding flanged members, disks and similar articles, comprising means for rotating said articles, a sanding belt adapted to travel across the margins thereof, and means for varying the point of application of the belt upon the margins.

1,459,742. AIRSHIP. JOHN NEFF, Sr., West Hoboken, N. J. Filed Oct. 27, 1921. Serial No. 510,778. 14 Claims. (Cl. 244—13.)



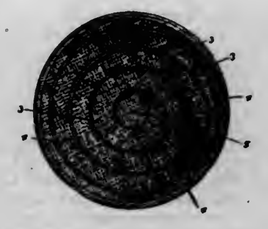
1. In an aero vehicle, in combination, a pair of relatively flat reciprocating wings, sets of valves in said wings each set mounted on a common pivot, and means for rotating said pivotes to open said valves at one part of the reciprocatory movement of the wings and to close said valves at another part of said movement.

1,459,743. TONE ARM. FRANK OBERST, Glendale, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed June 6, 1919. Serial No. 302,105. 1 Claim. (Cl. 274—23.)



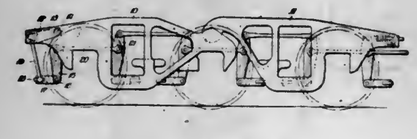
A tone-arm for talking machines, comprising a horizontally swinging main portion provided at its outer end with a barrel having an integral head closing one end thereof and open and interiorly screw-threaded at its other end, said barrel having a circumferential slot, a swivel head having a radial bore and adapted to be fitted endwise in the barrel through the open end thereof, an extension for said tone-arm adapted to be inserted through the slot in said barrel and detachably fixed in the bore of said swivel head, an absorbent lubricant containing washer fitted in the open end of said swivel head, and a plug cap for the open end of said barrel having a reduced externally screwthreaded portion adapted to engage the interiorly screwthreaded end of the barrel to hold the washer and swivel head in place and provided with a milled flange adapted to engage the edge of the barrel and substantially of the same diameter and flush with the outer circumference of the barrel.

1,459,744. FLEXIBLE PACKING AND PROCESS FOR MAKING IT. JAMES OSTRANDER, Indianapolis, Ind., assignor to Grapho-Metal Packing Company, Indianapolis, Ind., a Corporation. Filed Dec. 9, 1920. Serial No. 429,349. 20 Claims. (Cl. 154—45.5.)



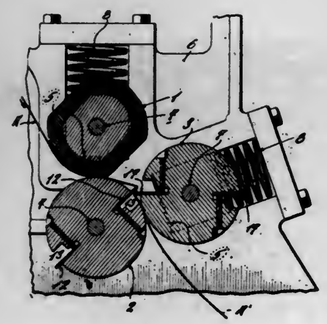
1. The process of manufacturing packing, which consists in impregnating a sheet of fibrous material with a lubricant, spreading a layer of metallic packing composition thereon, rolling said sheet to form a mass, and compressing said mass into any desired shape.

1,459,745. BRAKE MECHANISM. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 18, 1920. Serial No. 417,684. 5 Claims. (Cl. 188—205.)



5. In a railway car truck, the combination of oppositely arranged side frames, a member connecting said side frames, and lever supporting means carried by said connecting member on substantially the same level, one in the plane of an associated truck wheel and the other located laterally with respect to said plane.

1,459,746. WEB-SEVERING DEVICE. CHARLES F. PFLANZE, St. Louis, Mo. Filed Dec. 17, 1919. Serial No. 345,605. 17 Claims. (Cl. 164—66.)

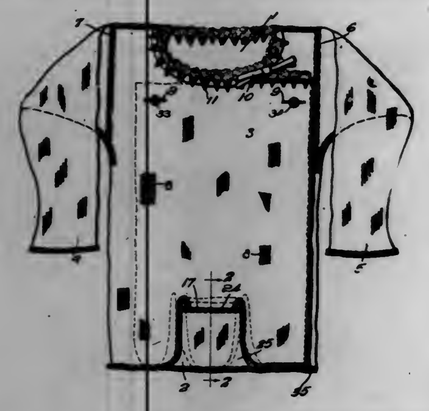


1. In a device for feeding and severing a traveling web of paper, a rotary severing blade movable with the traveling web, and a rotary tightening blade also movable with the traveling web, said bladea being engaged with opposite sides of the traveling web so that the edge of the rotary tightening blade will intersect the path of said severing blade to tighten said web on the severing blade, said tightening blade having a smooth edge engaging the web and said severing blade being provided with a serrated edge which engages the web.

1,459,747. INFANT'S GARMENT. HARRIET LYONS REDMOND, Boston, Mass., assignor to The William Carter Company, Needham Heights, Mass., a Corporation of Massachusetts. Filed June 16, 1921. Serial No. 478,153. 2 Claims. (Cl. 2—41.)

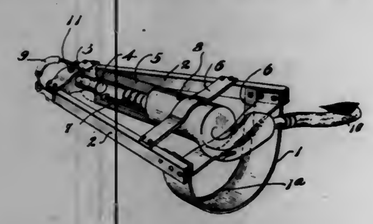
2. An infant's shirt having overlapping front portions, the under portion being provided at its lower end with a transverse slit and the upper portion with a reentrant

or cut-out 25 having a tab 26 of substantially the width of said cut-out and adapted to be passed through said



transverse slit, the back of the garment having attached thereto a tab 30, said tabs being adapted to have a diaper or the like attached thereto.

1,459,748. PNEUMATIC EARTH SCRAPER. LEIGH RANDALL RHODES, Cleveland, Ohio. Filed Nov. 10, 1920. Serial No. 423,047. 11 Claims. (Cl. 37—1.)



1. A portable hand controlled earth excavating device of the character described, including an earth scraping blade, a frame carrying the blade and providing a means for pulling the blade through the earth, and a power operating driving element mounted upon and carried by the frame.

1,459,749. CASKET. WILLIAM J. RILEY, St. Louis, Mo. Filed July 17, 1922. Serial No. 575,584. 1 Claim. (Cl. 27—8.)



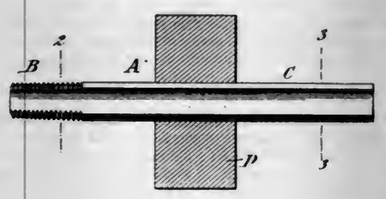
A casket having an opaque monolithic body portion and transparent plate glass cover, the edges of the plate glass cover being beveled and the upper edges of the body portion being beveled permitting the lid or cover to be fused to the body portion so that the surface of the lid or cover will be flush with the sides of the body portion.

1,459,750. SHIRT RETAINER. DAVID SCHREIBER, New York, N. Y. Filed Aug. 10, 1921. Serial No. 491,066. 1 Claim. (Cl. 241—3.)



A shirt retainer adapted to be worn interiorly of the trousers and exteriorly of the shirt, comprising a body encircling strap, a portion intermediate the ends of which constitutes a frictional section adapted to overlie the lumbar region of the body and frictionally engage the shirt and the remainder of which strap is elastic, and cooperating attaching means associated with the free ends of the strap to permit the ends to be secured together with the elastic portions of the strap under tension around the body over the shirt and beneath the trousers.

1,459,751. TOOL FOR TIRE VALVES OR THE LIKE. MAXIMILIAN CHARLES SCHWEINERT, New York, N. Y. Original application filed Feb. 24, 1915, Serial No. 10,346. Divided and this application filed May 28, 1920. Serial No. 384,907. 3 Claims. (Cl. 10—141.)



1. A tap comprising a rod of channeled metal having a shank of uniform diameter, and having cutting threads formed at one end, said threaded end being of less diameter than said unthreaded portion, and the unthreaded shank being of undiminished dimensions.

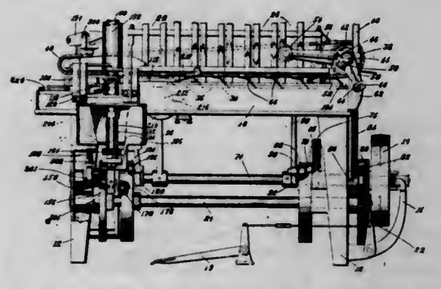
1,459,752. SPECIFIC-GRAVITY INDICATOR. ROBINSON P. SEARLE, Toledo, Ohio. Filed Feb. 2, 1921. Serial No. 441,749. 2 Claims. (Cl. 265—45.)

1. A device of the class described for testing the specific gravity of a liquid which should be maintained at a desired standard, said device comprising an elongated buoyant member having one end weighted relative to the other, the weight being such that the weighted end will not sink if the liquid has a specific gravity corresponding to that of the desired standard, the member



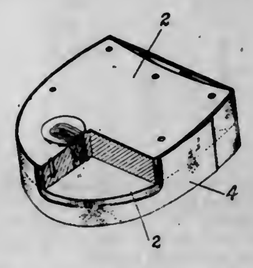
then floating in a horizontal position but taking various angular positions in liquids having lesser specific gravity than that of the standard.

1,459,753. HEEL-BUILDING MACHINE. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Oct. 24, 1918, Serial No. 259,578. Renewed Dec. 2, 1920. Serial No. 427,847. 28 Claims. (Cl. 12—50.)



1. In a heel building machine, the combination of a series of lift magazines, a support adjacent to the magazines, means for removing a series of lifts from the magazines and depositing them upon the support in spaced relation, means for receiving a heel pile and means movable in one direction only for advancing said series of lifts along the support in spaced relation and delivering them one upon another to said receiving means.

1,459,754. PACKAGED ARTICLE. WILLIAM HENRY SMITH, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 30, 1919. Serial No. 334,551. 2 Claims. (Cl. 216—46.)



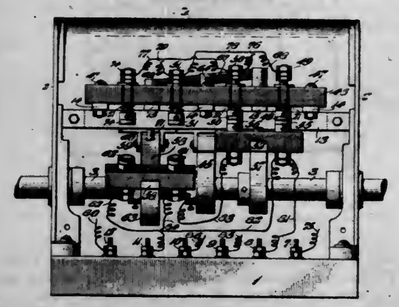
1. A package of rubber heels which have the size marks on the tread faces thereof comprising a pair of heels superposed one upon the other with their heel seat faces abutting and their tread faces exposed, and a piece of tape of a width not greater than the combined heights of the heels wrapped about the edges of the heels and fastened to said edges whereby the heels are held from separation and the tread face of each heel is exposed to view to permit the color and size of the heels to be learned from inspection.

1,459,755. CARRYING HANDLE FOR CAMERAS. CHARLES F. SPEIDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 16, 1922. Serial No. 582,122. 3 Claims. (Cl. 95—11.)



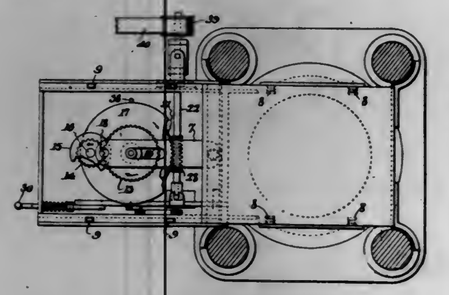
1. In a carrying handle, the combination with a body to be supported, having spaced bearings and spring actuated links mounted at their lower ends in the bearings to normally swing downwardly against the body, of a hand grip adapted to lie close against the body between the bearings and having longitudinal slots in its ends through which the outer ends of the links extend in sliding engagement.

1,459,756. ELECTRICAL CONTROLLING MECHANISM. HARRY E. STAHL, Trenton, N. J., assignor to The Willey Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1922. Serial No. 590,120. 5 Claims. (Cl. 172—240.)



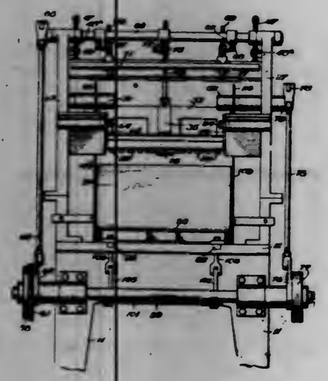
1. The combination with a motor having a double winding to effect its rotation in either direction, of a controller comprising a driven shaft, a cam thereon having a plurality of cam faces, a rock arm actuated by said cam, contacts carried by said rock arm, resistance controlled by said contacts, a pair of rock arms, contacts thereon, cams on said shaft to actuate in timed relationship each of said pair of rock arms, resiliently mounted contacts to co-operate with the contacts of said rocker arms, and electrical connections with said contacts and motor windings whereby the direction of rotation of the motor is changed during the rotation of said driven shaft.

1,459,757. SEMIAUTOMATIC TABLE-MOVING ATTACHMENT FOR PRESSES. FRANCIS E. STEVENSON, Mount Gilead, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed Nov. 19, 1921. Serial No. 516,500. 12 Claims. (Cl. 192—139.)



1. In a device of the class described, a reciprocating table, an arm connected to said table, a housing, a pin rigidly mounted therein, said arm having a slot engaging said pin and means for giving said arm a longitudinal movement and a rotary movement about said pin, thereby reciprocating said table.

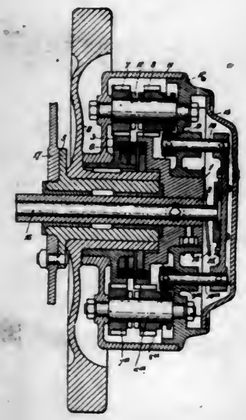
1,459,758. BLANK FEED FOR SLITTERS. CLARENCE M. SYMONDS, San Anselmo, Calif., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1919. Serial No. 303,663. 5 Claims. (Cl. 271—10.)



1. The combination of slitting rolls, means for feeding sheets horizontally thereto, a stack holder above said rolls, means for lifting sheets edgewise upward from said stack holder and releasing them to drop edgewise by gravity, means for guiding the sheets downwardly and rearwardly to said horizontally feeding means so that the formerly top edges of the sheets are presented towards the slitting rolls, and actuating mechanism for operating said lifting means and horizontally feeding means and slitting rolls.

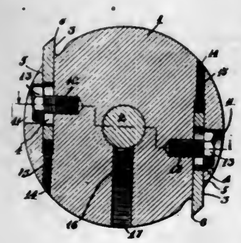
1,459,759. MEANS FOR STARTING, STOPPING, AND DRIVING MACHINERY. EMILE JOHN WELLFENS, Manchester, England. Filed Aug. 1, 1922. Serial No. 578,979. 4 Claims. (Cl. 74—34.)

1. A device of the class described, comprising, in combination, a driving member and a driven member, a sun wheel secured to said driven member for rotation therewith, a second sun wheel rotatable relative to said driven member, a resilient connection between said sun wheels, pairs of planetary pinions carried by said driving member, the pinions of each pair being in mesh with the respective sun wheels and having cooperating clutch



members, and means for shifting one pinion of each pair thereby to bring the clutch members into operative engagement, the ratio of the gearing being such that when the clutch members are in engagement the resilient connection will be placed under tension by the rotation of the driving member.

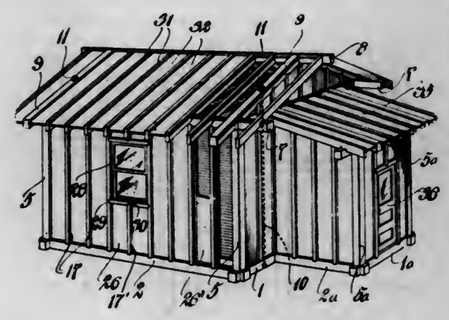
1,459,760. CUTTER HEAD. HARRY G. ALDRIDGE, Rochester, N. Y., assignor to Huther Bros. Saw Mfg. Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 23, 1922. Serial No. 545,953. 2 Claims. (Cl. 144—225.)



1. In a cutter, the combination with a cylindrical head having slots therein lying in chords of the circumference, of knives occupying the slots and separate end plates clamped to the head and provided with channels in which the sides of the knives are seated.

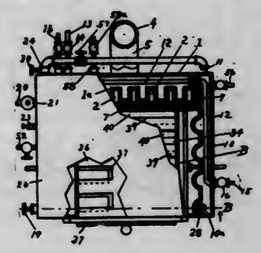
1,459,761. PORTABLE HOUSE. CHARLES W. ANDREWS, Spokane, Wash. Filed Apr. 12, 1921. Serial No. 460,710. 4 Claims. (Cl. 20—2.)

1. The combination in a knock-down house with an end sill and grooved side sill having complementary mortises and intercepting mortises in the upper face of the grooved side sill, of grooved studs seated in said intercepting mortises, an upper beam supported on said studs and provided with a groove in its under face, side boards having their edges in said grooved members, a roof mem-



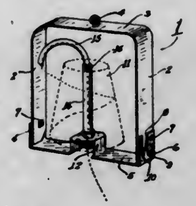
ber comprising notched rafters, means for keying said rafters to said upper beam, and tie rods extending through said rafters, beam and sill.

1,459,762. TRIUNE HEAT EQUIPMENT FOR THE HOME. OLIVER S. BOWMAN, Colorado Springs, Colo. Filed May 13, 1922. Serial No. 560,764. 40 Claims. (Cl. 126—5.)



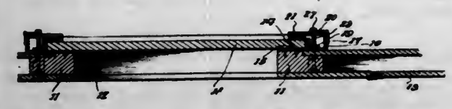
1. In an equipment of the class described, in combination; a rear wall, comprising a vertical water chamber, having vertical grooves in the front thereof; an insulation wall disposed in front of said grooves, thereby forming downwardly-extending flues; for the purposes set forth.

1,459,763. CORD HOLDER. JOHN W. BROWN and JAMES N. FITZSIMMONS, Newark, Ohio. Filed Feb. 1, 1922. Serial No. 533,320. 2 Claims. (Cl. 242—141.)



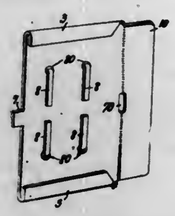
1. In a cord holder, a frame including depending sides, a base plate connecting the lower ends of said sides, wings provided upon the ends of said base plate, a pivotal connection between said wings and the sides of said frame, and a rigidly mounted cord receiving member arising centrally from said base plate.

1,459,764. CAR-DOOR CLAMP. JAMES E. COSSAIRT, Platte Center, Nebr. Filed June 24, 1922. Serial No. 570,602. 4 Claims. (Cl. 20—30.)



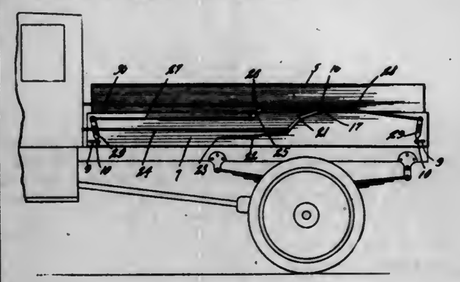
2. The combination with the wall of a car having a door opening therein, of a door fitting across said opening, a supporting member on the inner side of the wall of the car, a jamb on the inner side of the wall of the car between the door opening and the supporting member, a flap swingingly attached to the supporting member and adapted to overlap the edge of the door and bear flat against the inner side of the door, and means mounted in the jamb and housed in the wall of the car and engaging the flap to bind the same against the door and the door against the wall of the car.

1,459,765. INTERCHANGEABLE SIGN LETTERS. WORDSWORTH M. ELLIOTT, Crete, and SHELDON E. COOK, Lincoln, Nebr. Filed Mar. 18, 1922, Serial No. 544,818. Renewed Nov. 28, 1922. 7 Claims. (Cl. 40—140.)



1. A formative indicator composed of a plurality of units each of like contour and each comprising a body portion on which is received a letter or character, the said body portion having an extension at one side and having its upper and lower edges back-turned to form keeper flanges, the keeper flanges of one unit being adapted for telescopically receiving the side extension of another unit, and means on the two units for holding them together.

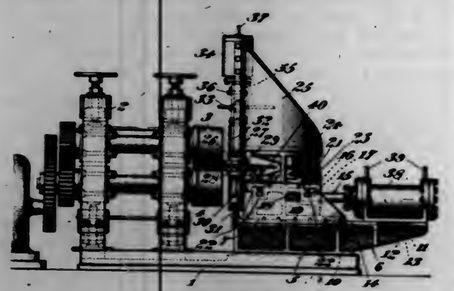
1,459,766. GRAVEL DUMP. THEODORE AUGUST HARTUNG, Austin, Tex. Filed Jan. 25, 1922. Serial No. 531,785. 1 Claim. (Cl. 298—33.)



In a wagon body, side and end members, said end members having slotted portions formed in the inner surface thereof adjacent to their lower edges, locking plates adapted to slide within the slotted portions, means at each end of each locking plate for moving the locking plates within the slotted portions throughout their entire lengths of the locking plates, a sectional bottom, the sec-

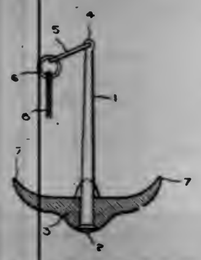
tions of the bottom being pivotally supported, means for moving the sections of the bottom to their active positions, and the ends of said sections adapted to rest on the locking plates to hold the sections of the bottom in their active positions.

1,459,767. DISK-ROLLING MACHINE. HENRY Y. HILDEBRAND, Johnstown, Pa., assignor, by mesne assignments, to Bethlehem Steel Products Company, a Corporation of Pennsylvania. Filed May 3, 1920, Serial No. 378,631. Renewed Aug. 8, 1922. Serial No. 580,566. 3 Claims. (Cl. 80—16.)



3. In a disk rolling machine, a pair of overhung rolls, means for rotating the same, a base, a guide frame mounted longitudinally thereon, the guides of which extend longitudinally thereof in the general direction of the roll axes, a carriage slidably mounted on said guide-frame, fluid-pressure operated means for advancing and retracting said carriage, a superstructure mounted upon said carriage, means for adjusting said superstructure transversely of said carriage, a pair of opposed rotatable clamping jaws mounted on said superstructure and fluid-pressure operated means adapted to advance, retract and hold one of said clamping jaws.

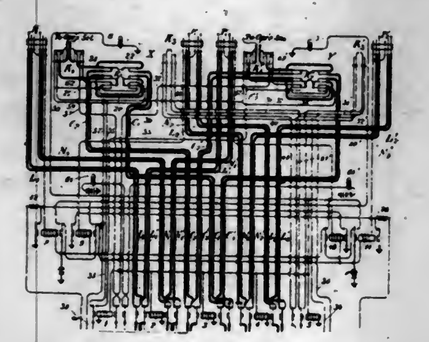
1,459,768. ANCHOR. FREDERICK JAMES JACKSON, Auckland, New Zealand. Filed June 16, 1922. Serial No. 568,808. 1 Claim. (Cl. 114—207.)



An anchor comprising a shank formed with a stop at one end and acting when the anchor is in operative position and an eye at the other end; an elongated link attached to said eye and a ring connected to said link and serving as a stop when the anchor is folded; a head provided with flukes, slidable on the shank and said link between the first mentioned stop and the ring and a flexible element attached to said ring.

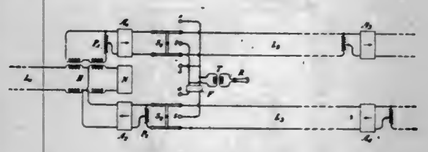
1,459,769. REPEATER CIRCUITS. OLIVER B. JACOBS, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 17, 1919. Serial No. 297,866. 17 Claims. (Cl. 179—170.)

1. In a signaling system, a repeater, a plurality of lines, manual switching apparatus at one operator's position for associating said repeater with any one of said lines, a second manual switching apparatus at another operator's position for associating said repeater



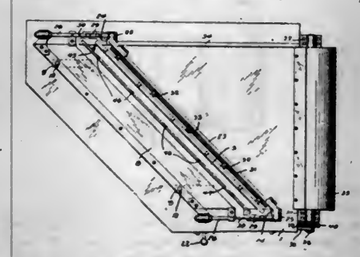
with one of a plurality of lines, and means for placing said repeater under the control of either switching apparatus.

1,459,770. SYSTEM FOR TESTING LINE BALANCE. ALVA L. JONES, Asbury Park, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 15, 1921. Serial No. 515,369. 10 Claims. (Cl. 179—175.)



1. The method of measuring unbalance between a two-wire line and its network at the junction with a four-wire line having repeater elements therein, which consists in disconnecting said repeater elements on their sides away from the two-wire line and connecting them in tandem, and adjusting their gain to the singing point.

1,459,771. METHOD AND MACHINE FOR FORMING SHEET TILING. WILLIAM J. KENT, Brooklyn, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Aug. 12, 1922. Serial No. 581,355. 7 Claims. (Cl. 154—1.)



1. A machine for forming sheets from relatively long strips of material which comprises a table along which

the strips and sheet are moved in a definite path in the formation of the sheet, a supply magazine set at an inclined angle to said path for supporting a stack of strips with their longitudinal edges at said inclined angle, a pusher device set at said inclined angle for engaging the successive strips of the stack, and means for moving said pusher device in said path for applying said strips to the partially formed sheet upon the table.

1,459,772. WINDOW-SHADE ROLLER. CHARLES W. KIRSCH, Sturgis, Mich. Filed May 29, 1922. Serial No. 564,334. 3 Claims. (Cl. 150—25.)



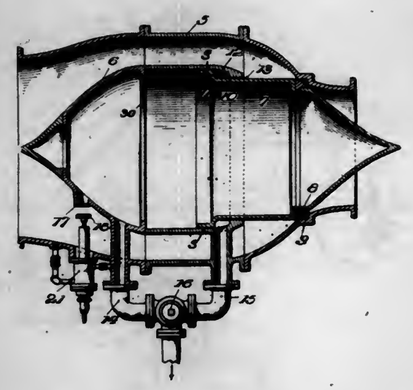
2. A window shade roller provided in its outer face with a groove extending from end to end thereof, the walls of said groove presenting sharp corners where they meet the circumferential face of the roller, projections extending into the ends of said groove, spaced from the bottom and side walls thereof, a plurality of arcuate spring members adapted to yieldably embrace the roller and each terminating at one end in a projection adapted to engage in said groove the shade adapted to be depressed at one end portion into said groove and held engaged therein by the projections of said spring members, the latter slidable longitudinally of the roller while engaged with the shade whereby the members nearest adjacent the ends of the roller may be moved to bring the projections thereof into engaging relation to the projections extending into the ends of said groove, the latter preventing said projections from being sprung out of said groove, the sharp corners aforesaid coacting with said spring members to prevent slippage of the shade.

1,459,773. PROCESS FOR RECOVERING THE RESIDUAL SOAP FROM CARBONATE-OF-LIME SLUDGE. PETER KREBITZ, Munich, Germany. Original application filed June 15, 1921, Serial No. 477,787. Divided and this application filed Nov. 16, 1922. Serial No. 601,391. 1 Claim. (Cl. 87—16.)

In the herein described process of recovering residual soap from carbonate of lime sludge, the step which consists in adding to the sludge a sufficient quantity of resin soap so that the entire soap content of the sludge will consist of at least twenty per cent of saponified resin.

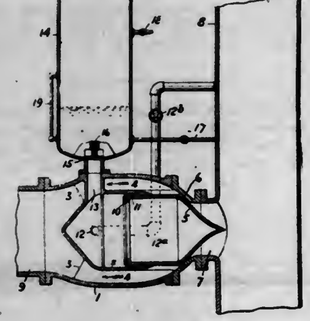
1,459,774. PLUNGER VALVE. CHESTER W. LARNER, Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company, a Corporation of Pennsylvania. Filed Jan. 22, 1918. Serial No. 213,171. 11 Claims. (Cl. 137—139.)

3. In a valve comprising a body, a fixed hollow valve element spaced from the body to afford a fluid way, a hollow plunger valve element adapted to co-operate with the body as a seat and forming with the fixed element an internal chamber and an annular chamber, and in combination therewith, a communication stopping short of the body and provided through the wall of the fixed element only and between the fluid way and said internal chamber whereby pressure is supplied to said internal



chamber to close the plunger element to its seat when pressure beyond the plunger falls as by leakage due to a break, substantially as described.

1,459,775. PRESSURE-RELIEF VALVE. CHESTER W. LARNER, Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company, a Corporation of Pennsylvania. Filed Dec. 7, 1920. Serial No. 428,882. 12 Claims. (Cl. 137—53.)

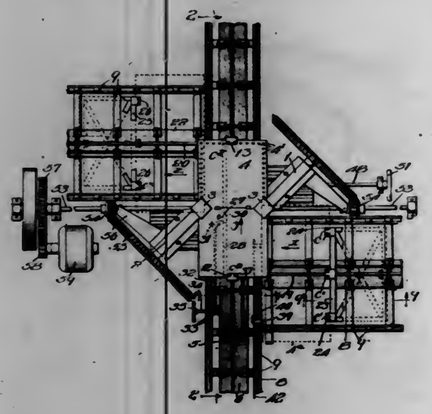


1. A relief valve comprising the combination of a body containing an internal cylinder closed at one end and having between it and the body an annular water way through which pressure is relieved, an air tank communicating with the cylinder, and a piston arranged in the cylinder and co-operating with the body as a valve seat and having differential areas of which one is exposed to the pressure to be relieved and of which the other is exposed to the pressure in the tank to normally hold the valve closed.

1,459,776. PLATE-PUNCHING MACHINE. GEORGE LASKER, Chicago, Ill. Filed Nov. 8, 1919. Serial No. 336,700. 19 Claims. (Cl. 164—117.)

1. In a mechanism of the kind described and in combination, punch mechanism, and means for guiding and

intermittently feeding the work to be punched to said punch mechanism in a predetermined manner in a plu-



rality of transversely intersecting directions, the feeding movements automatically moving the work a distance equal to the spacing between punch holes.

1,459,777. PROCESS AND APPARATUS FOR THE CHLORINATION OF METHANE (CH_4). RICHARD LEISER and FRITZ ZIFFER, Vienna, Austria. Filed Feb. 14, 1920. Serial No. 358,716. 2 Claims. (Cl. 260—166.)

1. In the process of manufacturing methyl-chlorid from methane and chlorin gas, exposing a mixture of methane containing gas with chlorin gas in the presence of an excess of methane in the proportion of one volume of chlorin to about six volumes of methane to the action of actinic light with starting the reaction by external heating.

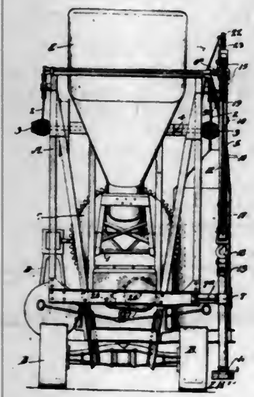
1,459,778. TEMPLE FOR EYEGLASSES. THOMAS LEYTHAM, Rochester, N. Y., assignor to Shur-On Optical Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 27, 1922. Serial No. 590,971. 2 Claims. (Cl. 18—59.)



1. The method of forming temples for ophthalmic mountings which consists in expanding a tubular body member at one end, inserting into the tubular body member a reinforcing wire substantially throughout the length of the latter and a filling piece in the expanded end, and molding the parts to the desired shape.

1,459,779. LOADING DEVICE. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 17, 1920. Serial No. 389,632. 19 Claims. (Cl. 212—51.)

1. In a lifting crane of the character described, the combination with a movably mounted supporting frame, of a mast slidably mounted thereon and adapted to engage the ground when in a lowered position, means for holding the mast in an elevated position operable



automatically to permit the mast to engage the ground when a load is imposed thereon, and batch box engaging means associated with the mast.

1,459,780. UPHOLSTERING PADDING. ADOLPH H. LICHTER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 21, 1919. Serial No. 305,842. 7 Claims. (Cl. 155—184.)

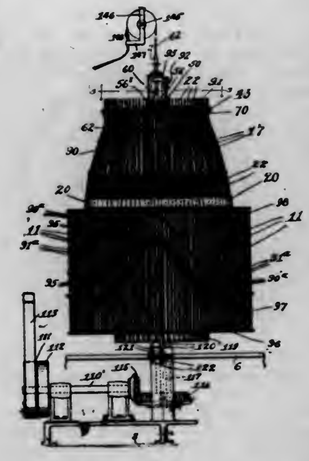


1. An upholstering padding having raised tufted portions consisting of a layer of loose fibrous tufting material secured by stitches between a sheet material and a freely extensible sheet material that will extend to conform to the raised portions of the upholstering padding and tufts while stitching.

1,459,781. REED-WEAVING MACHINE. MARSHALL B. LLOYD, Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1917. Serial No. 171,431. 39 Claims. (Cl. 139—14.)

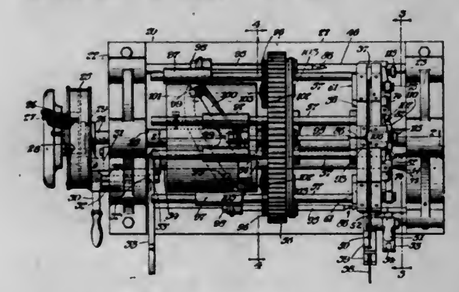
7. An apparatus for weaving reed fabric and the like embodying therein fabric limiting means against which the fabric is formed, means for holding the stakes in weaving relation thereto, means having a plurality of grooves in alignment with the stake holding means for receiving the free ends of the stakes and normally retaining them, means for actuating the free ends of the desired stakes to project them from said grooves, means

for holding the ejected stakes in ejected position for a period to permit placement of the filler strand, and



means for inserting the filler strand, whereby a fabric can be formed as a separate unit apart from the fabric limiting means.

1,459,782. MACHINE FOR MAKING HAIR WAVERS. EVARTS G. LOOMIS, Newark, N. J., assignor to Brett Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 14, 1920. Serial No. 373,743. 15 Claims. (Cl. 140—71.)



1. In a machine for making hair wavers, the combination with a movable element adapted to support and progressively advance a strand of wire, of sets of complementary clamps and cutters arranged in spaced relation to each other and in proximity to the path of the wire, means for progressively actuating said clamps and cutters during the travel of the wire, whereby the wire is clamped and cut at intervals to produce predetermined lengths, and mechanism, including rotary and longitudinally movable wire engaging devices, whereby each succeeding wire length is doubled upon itself and longitudinally twisted.

1,459,783. MAILING TUBE. JOSEPH LOUFEK, Keokuk, Iowa, assignor to Iowa Can Company, Keokuk, Iowa, a Corporation of Iowa. Filed Oct. 15, 1921. Serial No. 507,888. 2 Claims. (Cl. 229—40.)

1. A mailing tube comprising a tubular container having an open end provided with a plurality of diametrically-opposite perforations through the wall of the tube in spaced relation to the open end thereof, a closure cap fitting the said open end of the tube, and a single cord passed through the perforations and formed



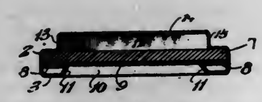
with a pair of loops, said loops being engaged with each other and crossing at the center of the cap, the ends of the cord being secured together.

1,459,784. POWDER-DISPENSING BOX. JOSEPH LOUFEK, Keokuk, Iowa, assignor to Iowa Can Company, Keokuk, Iowa, a Corporation of Iowa. Filed Dec. 28, 1921. Serial No. 525,425. 1 Claim. (Cl. 43—146.)



A box for dispensing powders, insecticides or the like comprising an open-ended paste board cylinder forming a body member, a concavo-convex head mounted at each end of the cylinder, with the convex side outwardly, each head being formed of paste board and having an integral, depending flange adapted to embrace the ends of the cylinder, each head having impressed on its inner, concave side radially disposed ribs formed of the material of the head and adapted to strengthen the same and retain the normal concavo-convex form under-pressure, the outer faces of each head being smooth.

1,459,785. MATCH BOX. THOMAS G. LOVEGROVE, Philadelphia, Pa. Filed Dec. 21, 1920. Serial No. 432,232. 4 Claims. (Cl. 206—33.)

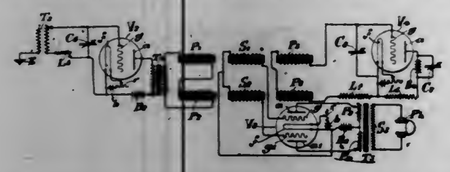


1. A match box consisting of a body and a cover therefor, said body being adapted to contain therein matches and a match-striking surface, said cover being hinged at one end to said body and having therein near the other end thereof a passage which is adapted to form a communication with and expose said match-striking surface, the walls of said passage being continued inwardly toward the striking surface.

1,459,786. METHOD OF AND APPARATUS FOR ELECTRICAL COMMUNICATION. DAVID G. MCCAA, Lancaster, Pa., assignor of one-third to Federal Telegraph Compnay, San Francisco, Calif., a Corporation of California. Filed Jan. 19, 1920. Serial No. 352,463. 8 Claims. (Cl. 250—8.)

1. The method of electrically transmitting intelligence, which consists in producing high frequency oscillations, modulating the amplitude thereof at a constant frequency above audibility, controlling the same to represent the intelligence to be transmitted, impressing the energy upon a transmitting medium, receiving the energy from said transmitting medium and effecting thereby current of said constant modulation frequency, impressing said current upon different paths whose joint effect upon

a translating instrument is substantially nil, causing to react with said current locally produced current waves



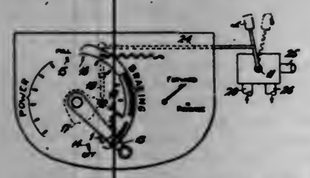
of frequency producing equal and opposite beats of constant frequency, and causing said beats to affect said signal translating instrument cumulatively.

1,459,787. UMBRELLA RACK. FRANK R. MCGEE, Steubenville, Ohio. Filed Dec. 30, 1921. Serial No. 525,912. 3 Claims. (Cl. 45—33.)



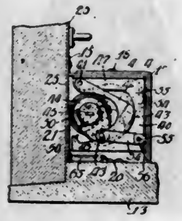
2. An umbrella rack comprising in combination a plurality of wall bracket members adapted to be rigidly secured to a supporting structure, said bracket members comprising a back plate, an integral upwardly and outwardly convexly curved hook portion projecting from the upper edge of said back plate, and an integral outwardly projecting lug projecting from the lower edge of said back plate, said lug having its forward end projecting downwardly, and a combined wall shield and drip pan adapted to be securely supported by said bracket members, said wall shield and drip pan comprising an integral metal plate having means adjacent its upper edge for resiliently engaging over the hook portion and under the bottom lug of said wall brackets, and said plate having its lower end curved and projected forwardly to form a drip pan portion.

1,459,788. BRAKE FOR TRAMWAY AND RAILWAY ROLLING STOCK. ALFRED WALTER MALEY, West Bromwich, England. Filed June 21, 1920. Serial No. 390,567. 5 Claims. (Cl. 188—159.)



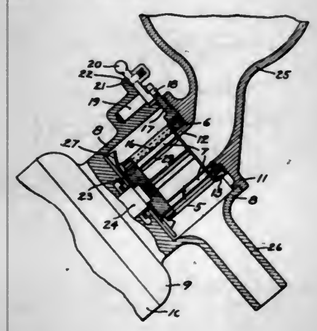
1. In an electrically driven rail vehicle the combination with a regenerative braking controller of a track brake, and means actuated by said controller for applying said track brake by pressure exerted between said brake and said vehicle.

1,459,789. CURTAIN-ROLLER SUPPORT. HUGH M. MARSH, Chicago, Ill., assignor to Catherine A. Fox, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,595. 5 Claims. (Cl. 156—39.)



3. The combination of means defining a window opening, a curtain roller extending thereacross, a curtain wound on said roller, a mounting at each end of the roller and secured adjacent to the window opening, interengaging means between the roller at each end and the mounting thereat for holding the roller for automatic movement in a path toward a predetermined plane when the curtain is drawn upon so as to unwind some thereof from the roller, and means for limiting the movement of the roller toward such predetermined plane whereby the place where the curtain unwinds from the roller is in such predetermined plane at all times when being so unwound therefrom.

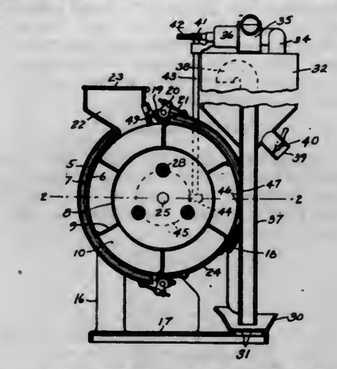
1,459,790. COFFEE MILL. CONDICT M. NEVIUS, Hornell, N. Y. Filed June 27, 1922. Serial No. 571,159. 6 Claims. (Cl. 83—6.)



1. A coffee-mill comprising: a cylindrical container provided with a plurality of longitudinal slots; a cutter-blade projecting into the container at each slot; and means, for imparting revolution to coffee within the container, comprising a circle of impelling members revoluble close to and substantially parallel with the edges of the blades; the respective numbers of blades and of impelling members being prime to each other.

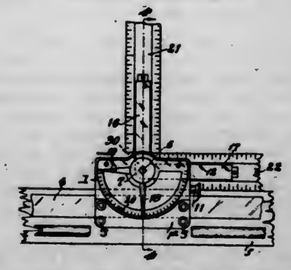
1,459,791. COFFEE ROASTER. CONDICT M. NEVIUS, Hornell, N. Y. Filed Sept. 8, 1922. Serial No. 586,980. 3 Claims. (Cl. 34—4.)

1. A coffee-roaster comprising: a continuously-movable endless carrier provided with a peripheral series of outwardly-open receptacles for coffee; a housing closely embracing the carrier and constituting normally a closure for all of the receptacles, but provided with openings for the introduction and removal of the coffee; and stationary



radiant heating means located within and embraced by the carrier so as to heat all parts of the carrier simultaneously.

1,459,792. DRAFTING INSTRUMENT. CHARLES PHILIPE LOUIS NILANT, Haarlem, Netherlands. Filed June 14, 1921. Serial No. 477,524. 6 Claims. (Cl. 33—79.)



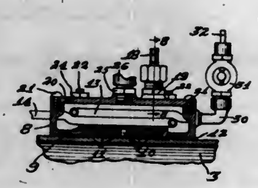
1. In a drafting instrument in combination, a runway adapted to be secured to the blade of a conventional square, a base mounted on the runway, a rigid member pivoted in the base, a pair of arms on the member, a pair of motion transmitting elements, one mounted on the rigid member and the other on the base, and means for retaining said elements out of engagement.

1,459,793. WATER BOMB. MAX CARL AUGUST HERMANN PAPE, Neumuhlen-Dietrichsdorf, near Kiel, Germany, assignor to the Firm of Carbonit Aktiengesellschaft, Hamburg, Germany. Filed Sept. 30, 1920. Serial No. 413,885. 3 Claims. (Cl. 102—3.)



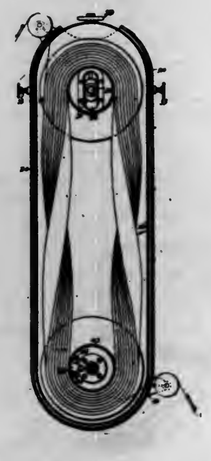
1. A water bomb comprising a number of superposed sections detachably connected with one another to form a single unit, each section having a fuse and a charge of explosives, the sections becoming detached from one another on being dropped into the water to adjust themselves one above the other.

1,459,794. HUMIDIFIER. JAMES O. PATTY, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,785. 6 Claims. (Cl. 123—25.)



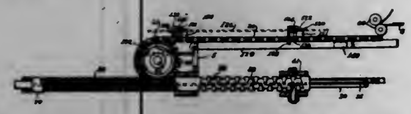
1. The combination with an explosive engine and its intake and exhaust manifolds, of a humidifier comprising a casing adapted to be mounted on said exhaust manifold, an apertured boss formed on the inner surface of the base of said casing, means permitting water to drip on said apertured boss, a steam outlet tube connected with the top of said casing, an air pipe coil in said casing above said apertured boss, means connected with one end of said pipe coil for controlling the flow of air through said pipe coil, an air outlet tube connected with the other end of said pipe coil, and a three-way connector mounted on the engine intake manifold to which said air outlet tube and said steam outlet tube are connected.

1,459,795. COILING STRIP MATERIAL SUCH AS CINEMATOGRAPH FILM. ARTHUR GEORGE PAVELY and CHARLES FRIEDRICH OSCAR EDUARD SCHMITT, Johannesburg, Transvaal, South Africa. Filed Mar. 14, 1922. Serial No. 543,691. 9 Claims. (Cl. 88—18.7.)



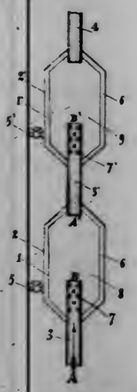
1. A strip coil composed of a number of superimposed convolutions each of which has two half twists formed in it.

1,459,796. INTERMITTENT DRIVE MECHANISM. HAROLD D. PENNEY, Pelham, and CHARLES E. WHITEMAN, Richmond Hill, N. Y., and GEORGE F. RUSS, Jersey City, N. J., assignors to Automatic Inserting Machine Corporation, New York, N. Y., a Corporation of New York. Original application filed Nov. 17, 1917, Serial No. 201,950. Patent No. 1,317,387. Divided and this application filed Aug. 12, 1919. Serial No. 317,002. 14 Claims. (Cl. 74—40.)



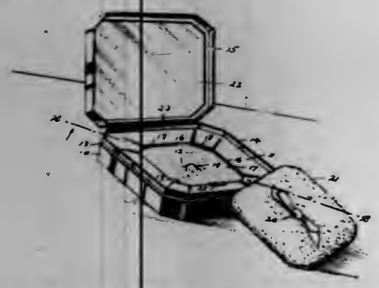
2. In combination, a worm; a shaft; a continuously rotated sleeve slidable on said shaft, and provided with a worm thread engaging said worm and with a pair of intersecting spiral grooves joined at their ends and of opposite pitch; and a positioning means engaging in said grooves.

1,459,797. SILENCER FOR INTERNAL-COMBUSTION ENGINES. CESARE PAROLINI and GUSTAVE PERRON, Paris, France. Filed Aug. 16, 1921. Serial No. 492,788. 2 Claims. (Cl. 137—160.)



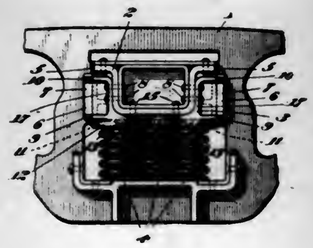
1. A silencer for the exhaust of internal combustion engines, characterized by the arrangement of one or more large chambers wherein the exhaust gases are allowed to expand, said chambers being constructed with double walls comprising between them a space in which a vacuum is produced.

1,459,798. VANITY BOX. CARLYLE C. PRINDLE, Douglaston, N. Y. Filed Feb. 12, 1923. Serial No. 618,479. 4 Claims. (Cl. 132—83.)



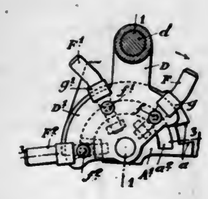
1. A vanity box comprising a powder holding compartment; an open-centered top therefor; a covering pan removably secured in service on said top for closing the center thereof; means communicating with the interior of said compartment for delivering a small quantity of powder from said compartment to the upper side of said pan; and a closure cover for said box adapted when closed for pressing a manipulator for said powder close upon said pan for limiting the delivery of said powder from said compartment to said pan.

1,459,799. COMBINED SPRING CAP AND TRUCK BOLSTER COLUMN GUIDE. RALPH V. SAGE, Philadelphia, and GEORGE E. THACKRAY, Westmont Borough, Pa. Filed Oct. 31, 1921. Serial No. 511,640. 5 Claims. (Cl. 105—197.)



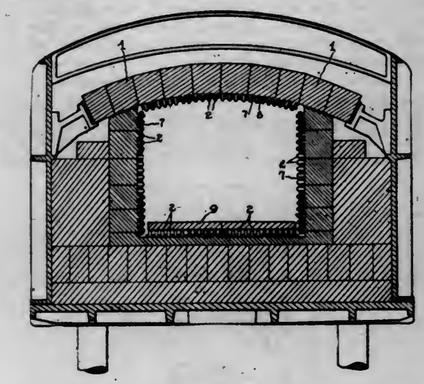
1. The combination with a bolster, the lower end portions of which are narrower than the upper portions of the bolster ends, of a spring cap and column guide secured to the end portion thereof, comprising a plate portion under the bolster end provided with spring pockets in its lower surface and with integral column guides, said plate portions and column guides extending laterally from the bolster end.

1,459,800. GUN CARRIAGE HAVING CRANKED AXLETREES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Nov. 27, 1922. Serial No. 603,697. 2 Claims. (Cl. 89—40.)



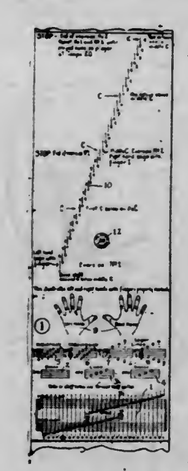
1. In a wheeled gun carriage, the combination of a sheath secured to said carriage, a cranked axle tree rotatably engaging said sheath, a half-disc secured to said sheath and having formed therein a plurality of notches and a concentric groove, a plurality of locking bolts pivotally secured to each crank-portion of said axle tree and having lugs adapted to engage said notches, a plurality of springs for automatically forcing said bolts into engagement with said notches when the gun is being lifted, a portion of said bolts being normally held in inoperative position by engagement with one face of said half-disc, and means secured to said crank and extending into said groove for limiting the angular distance through which said crank and disc may be relatively moved.

1,459,801. ELECTRIC FURNACE. EDWIN L. SMALLEY, East Orange, N. J. Filed Aug. 6, 1020. Serial No. 401,717. 5 Claims. (Cl. 204—64.)



1. An electric furnace having its housing exposed to the furnace interior, means engageable with the housing for the inwardly uncovered, removable lodgement of a resistance conductor, and movable securing means for said conductor.

1,459,802. MEANS OF TEACHING PIANO PLAYING. IRVING M. SMITH, San Diego, Calif., assignor to The Q R S Music Company. Filed June 5, 1919. Serial No. 301,958. 16 Claims. (Cl. 84—164.)



1. A music instruction strip comprising, a movable sheet bearing visual textual precept, and an immediately following perforation adapted to result in an actuation of a musical instrument in audible illustration of the precept, combined substantially as set forth.

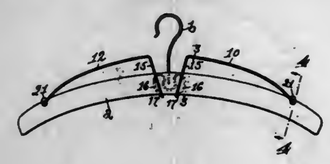
1,459,803. DIAPHRAGM FOR SOUND-REPRODUCING APPARATUS. JOHN A. STEURER, New York, N. Y. Filed May 29, 1922. Serial No. 564,352. 9 Claims. (Cl. 181—32.)

1. As a new article of manufacture, a diaphragm for sound reproducing apparatus comprising a disc of non-absorbent material, provided on at least one face with a concentric coating composed of dried liquid adhesive material, combined with finely divided damping material, distributed substantially uniformly therethrough, and submerged therein.



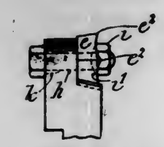
6. As a new article of manufacture a diaphragm for sound reproducing apparatus, comprising a disc of non-absorbent material provided on at least one face with a concentric coating of dried liquid adhesive material comprising a phenolic condensation product dissolved in a volatile vehicle.

1,459,804. GARMENT HANGER. WALTER M. P. TARR, Lowell, Mass. Filed Aug. 19, 1922. Serial No. 583,019. 8 Claims. (Cl. 211—13.)



4. The combination with a garment hanger, of a clamping device cooperating therewith and provided with means for bearing upon one surface of the hanger at two points spaced apart and with means for bearing upon the opposite surface of the hanger at a third point intermediate said two bearing points, and having means for gripping the opposite sides of the hanger at said intermediate point, said means being connected together to be applied to and removed from the said hanger as a unit.

1,459,805. TOOL AND TOOL HOLDER FOR TURNING, PLANING, AND LIKE OPERATIONS. WALTER TOM TASKER, Cliftonville, Margate, England. Filed Nov. 17, 1920. Serial No. 424,724. 10 Claims. (Cl. 29—100.)

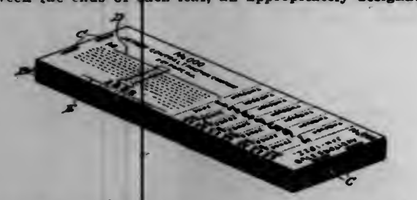


1. A tool holder comprising a metal bar adapted to be fixed in a slide rest or equivalent support and having a recessed front end portion formed with a hole designed to receive holding down means whereby a cutting tool can be rigidly fixed on said recessed portion of the bar and a rear end wall the surface of which is inclined backwardly and upwardly to engage with and support laterally the tool seated on the recessed portion of the bar.

1,459,806. RAILWAY TICKET. CHARLES L. S. TINGLEY, St. Davids, Pa. Filed May 18, 1922. Serial No. 561,811. 3 Claims. (Cl. 283—23.)

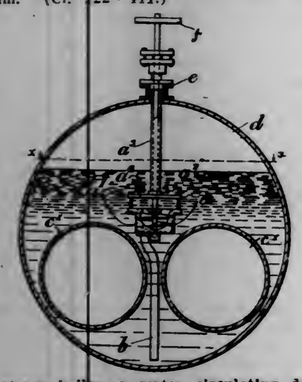
1. A railway ticket for commutation travel comprising a plurality of leaves secured together at each end, said

leaves comprising a plurality of zone coupons disposed between the ends of each leaf, an appropriately designated



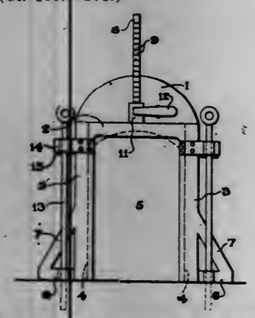
detachable auditor's stub at one of the ends and an appropriately designated passenger's stub at the other end.

1,459,807. STEAM BOILER. ISAAC TODD, Belfast, Ireland. Filed Sept. 30, 1920. Serial No. 413,766. 1 Claim. (Cl. 122—411.)



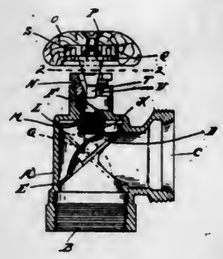
In a steam boiler, a water circulating device comprising in combination, a pump casing, a cover for said casing, a tubular member attached, at one end, to the boiler and, at the other end, to said cover, means securing said cover to said pump casing so as to leave discharge orifices therebetween, a pipe leading from the interior of said casing to the bottom of the water space of the boiler, a pump rotatably mounted in said casing, a spindle for said pump extending through said tubular member, a steam tight joint around said spindle, and a pulley on said spindle outside the boiler, all substantially as set forth.

1,459,808. FURNACE DOOR. PORTER G. WALL, Arapal, N. C. Filed June 12, 1922. Serial No. 567,715. 1 Claim. (Cl. 110—173.)



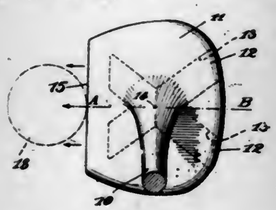
A door for a furnace comprising a frame having openings in its rear for receiving binding means for connecting it with the front of a furnace, said frame having guideways therein, a slide vertically movable in the guideways, latch means for holding the slide in adjusted position, a base member at each side of the frame having a hole therein, a bracket at each side of the frame adjacent the upper end thereof, a rod passing through the bracket and the hole in each base member and adapted to have its end enter the ground to hold the frame in position and a projection on each rod for forming a rest for each bracket.

1,459,809. VALVE. ADOLPH V. WANGENHEIM, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 27, 1922. Serial No. 539,437. 8 Claims. (Cl. 251—36.)



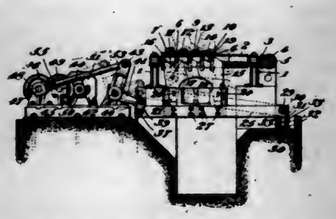
1. The combination with a casing having inlet and outlet openings and a cylindrical portion intermediate the same, of a disk valve arranged obliquely across the cylindrical casing in peripheral sealing contact therewith, and means for rotating said disk from a position for obstructing the flow of fluid through said casing to a position permitting such flow.

1,459,810. GOLF CLUB. CHARLES M. WILLS, Atlantic City, N. J. Filed Oct. 19, 1921. Serial No. 508,752. 2 Claims. (Cl. 46—4.)



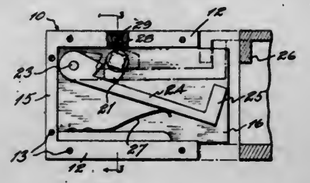
1. In a golf club, in combination, a head, a shaft fixedly attached to the head and an X-shaped weighting material within the head, so positioned that the center of its arm intersection will coincide with the center of the shaft and head juncture.

1,459,811. ROLLING-MILL APPLIANCE. TOM WILSON, Johnstown, Pa. Filed Aug. 13, 1921. Serial No. 491,936. 11 Claims. (Cl. 80—48.)



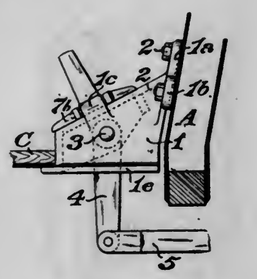
11. A rolling mill appliance comprising a stationary feed table provided with a plurality of rollers, each having a number of collars thereon forming a plurality of aligned grooves in said rollers, a plurality of manipulators mounted between said rollers and provided with a series of saw-tooth serrations in their upper surfaces corresponding to the grooves in said rollers, said manipulators being mounted upon actuating bars of considerable length pivoted near their ends, means for lifting and lowering the other ends of said bars and manipulators, whereby pieces are lifted from one groove of the rollers, slid laterally and downwardly in the serrations, and deposited in the next groove while being turned ninety degrees on their axes by contact with the collars as they are lowered on said rollers.

1,459,812. CAR LOCK. FRANK ZEMAN, Little Falls, Minn. Filed Jan. 26, 1922. Serial No. 531,841. 1 Claim. (Cl. 292—124.)



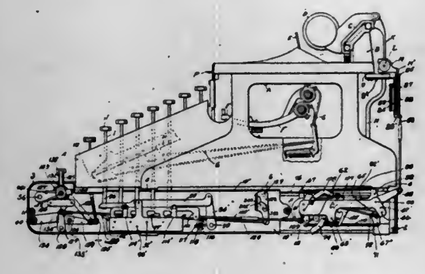
A lock comprising a casing, open at one end, guides on the open end of the casing, a keeper adapted to fit between the guides, a locking hook pivoted within the casing, the free end of said hook being operable between the guides and to enter the keeper, a barrel pivoted in the casing, said barrel having a notch in its periphery, a rectangular extension on the barrel, a key for engaging the extension to rotate the barrel, a cam on the barrel for engaging and moving the hook out of the keeper, a spring impelled detent normally engaging in the barrel notch whereby said cam is held against the hook when in open position, means formed with said key for retracting said detent when the key is inserted, and yieldable means for urging the hook into locking position.

1,459,813. LOCOMOTIVE GRATE SHAKER. GEORGE B. ASHWORTH, Amsterdam, N. Y. Filed Feb. 6, 1923. Serial No. 617,285. 3 Claims. (Cl. 126—169.)



1. In a grate shaking appliance, the combination of a supporting casing, having a plurality of slots in its top portion; a fulcrum pin, fitted transversely in said casing; grate levers, each journalled on said pin, and extending through a casing slot; and locking members, each pivoted to the casing and adapted to engage a grate shaking lever and cover the spaces between the front and rear sides of said lever and the ends of the slot through which it passes.

1,459,814. COMBINED TYPEWRITING AND ADDING MACHINE. GLENN J. BARRETT, Grand Rapids, Mich., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 13, 1909. Serial No. 532,889. 124 Claims. (Cl. 235—60.)



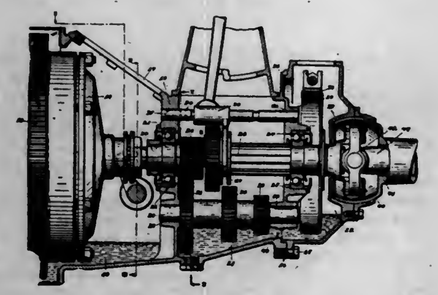
1. In an adding machine, selecting mechanism comprising a series of movable feelers, means for moving the entire series of said feelers, and means for obstructing a selected one of said feelers to modify its motion.

25. In a combined typewriting and adding machine, the combination of the carriage, the printing instrumentalities and the tabulator of a typewriter, said tabulator including one or more adjustable column stops and co-operating stops, adding mechanism for adding numbers written on the typewriter, and a denomination selecting device for said adding mechanism operated by the column stop or stops of the typewriter tabulator.

71. In an adding machine, the combination of a register, means for setting up a number to be added on said register, operating mechanism for operating said register in accordance with the number set up, and a shield for said register controlled by said setting-up means and said operating mechanism.

112. In an adding machine, the combination of a series of register wheels, a series of racks for operating said register wheels, means for imparting to any one of said racks on occasion an additional increment of motion to transfer, and means for splitting the machine comprising one or more abutments that can be interposed into the path of one or more of said bars and thus prevent transfer by the particular bar or bars affected.

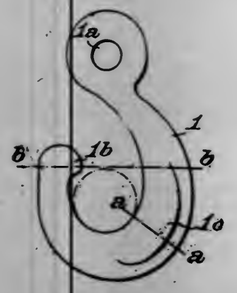
1,459,815. LUBRICATING SYSTEM. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 7, 1917. Serial No. 205,966. 14 Claims. (Cl. 184—11.)



1. A lubricating system for motor vehicles comprising the combination of a gear casing, provided with a parti-

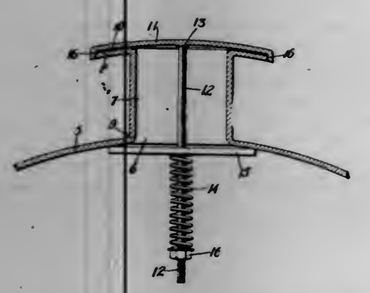
tion dividing it into separate chambers, a port in said partition above the oil level in the chambers, means in one of the chambers for directing lubricating oil against the side walls of the chamber, and a horizontally inclined flange integrally secured to the side wall of that chamber and extending to the partition to direct oil through said port into the second chamber.

1,459,816. HOOK FOR CRANE-SLING CHAINS. WILLIAM J. BENIS, Schenectady, N. Y. Filed Sept. 15, 1921. Serial No. 500,863. 1 Claim. (Cl. 24—230.5.)



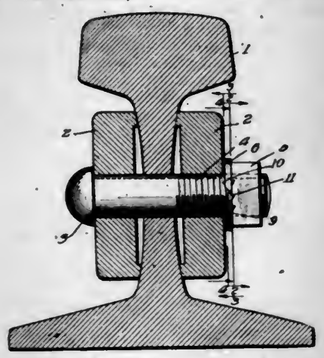
A crane sling hook, having the free end of its bill shaped to form a rounded knob projecting inwardly only, whereby danger of the load becoming hung on the end of the bill and of its slipping off therefrom is obviated.

1,459,817. SAFETY RELIEF DEVICE. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 27, 1919. Serial No. 333,787. 2 Claims. (Cl. 220—85.)



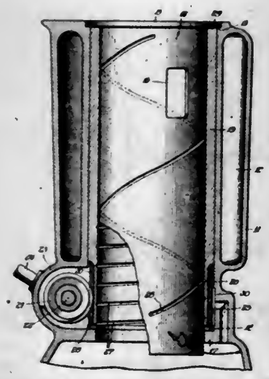
1. A safety relief device for a transformer tank comprising an outlet member extending above an opening in the transformer tank top and having an outwardly extending circumferential flange thereon, a cover plate for said outlet having its edges extending over said flange to normally make sealing contact therewith and adapted to move upward therefrom to provide a free substantially radial opening and increase the area of the cover plate exposed to the pressure from the outlet, and spring means normally resiliently holding said cover plate closed with a pressure less than the opening force due to the pressure and reaction against the entire under surface of the cover plate when opened by pressure from within, so that the cover plate when lifted slightly will be held open by both the pressure and reaction of the escaping gases to quickly reduce the pressure within the transformer tank to a safe amount before closing.

1,459,818. NUT LOCK. TONY BLANKENSHIP, Kincaid, Ill., assignor of one-half to Joseph J. Davis, Kincaid, Ill. Filed Mar. 30, 1922. Serial No. 548,060. 1 Claim. (Cl. 151—13.)



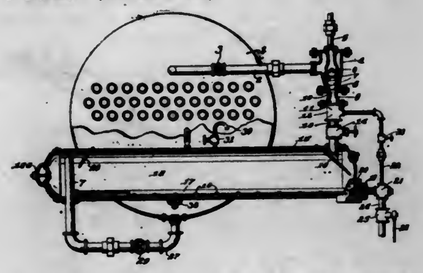
The combination with a threaded bolt, a nut threadedly engageable therewith, a split washer arranged on said bolt between the work and said nut, the major portion of said washer constituting the body thereof being of a substantial thickness and non-resilient, said washer having a beveled edge at the thickened side of the split therein and being reduced substantially in thickness from a point near the edge of the other side thereof to provide a resilient tongue at one end of the washer, said tongue along its edge having an upwardly projecting beveled surface extending across said edge and overlapping the beveled edge of the thickened side of the washer, said tongue also having an outstanding tooth projecting forwardly beyond one side of the washer to engage said nut, the side faces of said washer lying normally in a plane substantially parallel with the side of the nut and the surfaces to be engaged by said washer, whereby when the nut is tightened a gripping engagement is effected between the nut and the washer by said tooth without placing the thickened body portion of the washer under tension.

1,459,819. LUBRICATING SYSTEM. CLARENCE E. BONNER, New York, N. Y., assignor to Bonner-Charter Motor Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 8, 1921. Serial No. 459,699. 17 Claims. (Cl. 123—190.)



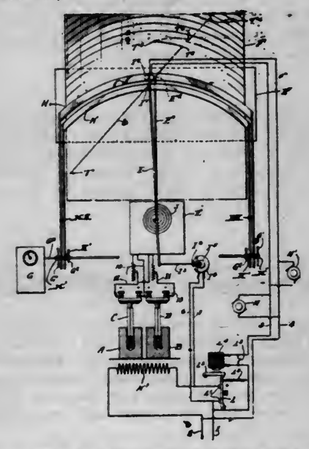
1. In combination with an engine cylinder having an inner cylinder member, an outer case, and a sleeve valve operating between said member and case, a spiral oil distributing groove formed upon the outer surface of the cylinder member, and a coacting reversely extending spiral groove formed upon the inner surface of the valve member.

1,459,820. WATER PURIFIER. EDWARD J. BROCK, St. Louis, Mo. Filed July 25, 1919. Serial No. 313,352. 4 Claims. (Cl. 122—441.)



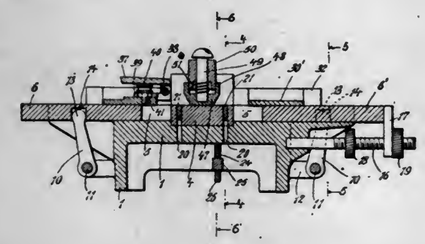
1. In a water purifier apparatus for steam boilers, the combination of a purifying tank, a mixing chamber, a pipe connected to the boiler below the water level therein and leading to said mixing chamber, a feed-water pipe also entering said mixing chamber, an inlet pipe leading from said mixing chamber and entering said tank at one end thereof, a pipe provided with perforations in its under side and extending along the bottom of said tank, a by-pass pipe leading from the inlet pipe and connected to said perforated pipe, a pipe and blow off valve connected with the by-pass pipe beyond the perforated pipe and a valved pipe connected to and extending through the bottom of the boiler, projecting into said purifying tank and having an open end located near the top thereof at the opposite end of said tank from that at which the inlet pipe enters.

1,459,821. CONTROL APPARATUS. RICHARD P. BROWN, Philadelphia, Pa., assignor to Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1921. Serial No. 452,077. 11 Claims. (Cl. 266—5.)



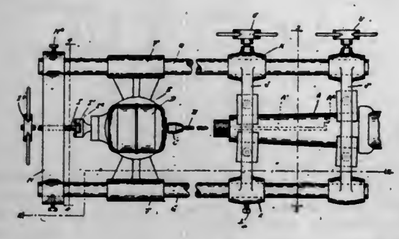
1. Apparatus for subjecting a body to heat treatment comprising in combination thermometric means responsive to the relation between the rate at which heat is being absorbed or given off by the body undergoing heat treatment and the corresponding change in temperature of the body and a control device actuated by said means on the variation in said relation occurring when the body passes through a transformation point.

1,459,822. FILM PATCHING MACHINE. WALTER E. CARLETON, Brooklyn, N. Y. Filed Sept. 10, 1920. Serial No. 409,416. 7 Claims. (Cl. 154—42.)



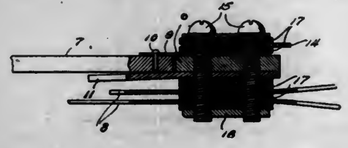
3. In a film patching machine, a pair of knives spaced apart to move in parallel planes, a pair of reciprocatory slides located on opposed sides of said knives and movable transversely thereto, said slides being provided with means for holding film ends in selected positions thereon, means for limiting the movement of said slides in one direction with a selected point on the film ends registering with the said knives, and in an opposite direction with the cut film ends properly overlapping to form the patch, and a gauge element adapted to bear on one of the film ends at a selected distance from the severed edge when advanced in the last mentioned direction.

1,459,823. DRILLING DEVICE. CHESTER C. CODDING, Detroit, Mich., assignor of one-half to George T. Hunter, Detroit, Mich. Filed Sept. 30, 1921. Serial No. 504,292. 11 Claims. (Cl. 77—18.)



1. A portable drilling device comprising a drill, a mounting for said drill composed of spaced bars, means carried by said mounting for clamping and supporting the same upon a spindle, said means axially aligning the drill and spindle, and means for rotating the drill and feeding the same toward the spindle.

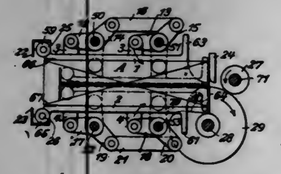
1,459,824. ELECTROMAGNETIC DEVICE. WILLIAM H. D. FORD, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,240. 5 Claims. (Cl. 175—336.)



1. In an electro-magnetic device, a magnetic circuit including an armature and a core, flexible means for se-

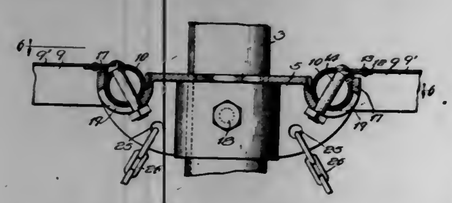
curing the armature to the core, means co-operating with said armature and said core for decreasing the reluctance of the magnetic circuit at the point where the armature is secured to the core.

1,459,825. DEVICE FOR FOLDING PAPER BAGS. PAUL GANGLER, Esslingen, Germany. Filed May 15, 1922. Serial No. 561,038. 5 Claims. (Cl. 93—8.)



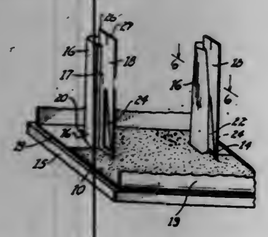
1. In a device for folding angular paper bags, the combination of a top and bottom plate, means for moving said plates substantially parallel towards each other and rearwards, a pair of knives, and means for moving said knives substantially parallel towards each other and rearwards at right angles to said plates.

1,459,826. BERTH. ALTON E. Gosso, Chicago, Ill., assignor to The Gosso Company, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1921. Serial No. 488,412. 8 Claims. (Cl. 5—9.)



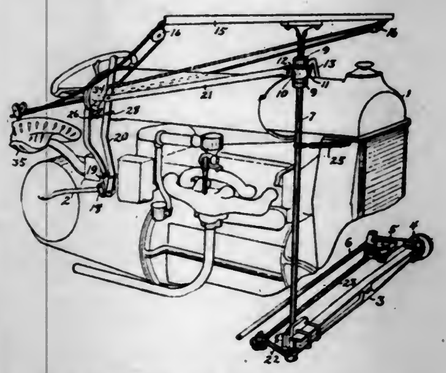
1. In a device of the kind described, a cot comprising side and end frame members, said end frame members having integral tubular bearings at their ends, the side frame members being enclosed at their ends within said bearing ends of the end frame members, and brackets adapted to be arranged on upright posts to pivotally receive and engage the tubular bearing portions of said end frame members and means for supporting the free edge of said frame members from said posts.

1,459,827. SHINGLE. NORMAN P. HARSHBERGER, Chicago, Ill. Filed Jan. 27, 1922. Serial No. 532,173. 8 Claims. (Cl. 206—46.)



1. A shingle former comprising a strip adapted to pass through a slit in a shingle, said strip having a tapering flange projecting at an acute angle therefrom, and adapted to bend a portion of said shingle adjacent the slit.

1,459,828. STEERING ATTACHMENT FOR TRACTORS. CALVIN GLENN HARTLEY, Roanoke, Ind., assignor to Knox Engineering and Manufacturing Company, a Corporation of Indiana. Filed Aug. 8, 1921. Serial No. 490,523. 5 Claims. (Cl. 180—77.)



1. In an attachment for a tractor having a steering gear and clutch, an auxiliary steering member including a post and tiller fixed thereon; a universal bearing on the tractor for supporting the post near the lower end thereof, said post having operable relation with the steering gear of the tractor and being adapted to have swinging and turning movement in said bearing; a movable bearing near the upper end of the post having means in connection therewith for guiding the same; an auxiliary lever having fixed relation with the clutch pedal of the tractor; a bar having connection with the movable bearing on the post and the auxiliary lever for imparting movement from the post to said lever; a latch adapted to have locking engagement with the auxiliary lever; and a pair of lines having connection with the auxiliary lever and respective operable relations with the corresponding opposite ends of the tiller.

1,459,829. WATERPROOF ELECTRIC HEATER AND ITS METHOD OF MANUFACTURE. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Oct. 18, 1921. Serial No. 508,542. 23 Claims. (Cl. 219—63.)

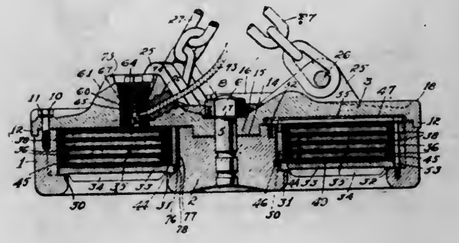


1. The mode of manufacturing an electric heater which consists in shaping a metallic shell by pressing a tube into the desired form and inserting therein a heating conductor with insulation and connecting terminals.

1,459,830. LIFTING MAGNET. FRANCIS W. JESSOP, Cleveland, Ohio, assignor to The Ohio Electric & Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 20, 1918. Serial No. 231,565. 20 Claims. (Cl. 175—367.)

2. In a lifting magnet, the combination of a casing for the coil consisting of an annular coil protecting

wall and constituting a pole shoe, a pole piece, a cover for application to the casing and pole piece and by means of which said parts are properly positioned with respect to each other, means disposed within the diameter of the casing wall and connecting the cover to said wall and pole piece, the cover having protecting parts for shielding the connecting means, and a coil within the casing about the pole piece.



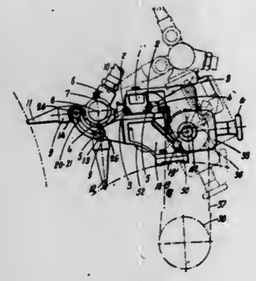
1,459,831. TOOTHBRUSH-HOLDING DEVICE. CHARLEY L. JONES, Altus, Okla. Filed Sept. 19, 1922. Serial No. 589,250. 3 Claims. (Cl. 206—15.1.)



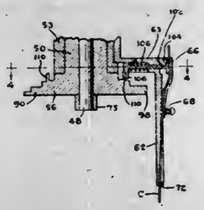
1. A device for holding and sterilizing a tooth brush, comprising a tube, a receptacle for holding a disinfectant removably mounted in one end of the tube, a cap element detachably mounted in the opposite end of the tube and having a longitudinally extending opening removably holding the end of the handle of a tooth brush.

1,459,832. VACUUM APPARATUS FOR STRIPPING CARDS. PAUL KESTNER, Boulogne-sur-Seine, France, assignor to Etablissements de Ventilation Kestner & Neu, Centeleu-Lille, Nord, France, a French Corporation. Filed Dec. 10, 1920. Serial No. 429,741. 4 Claims. (Cl. 19—109.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)

1. In a vacuum stripping apparatus for carding machines, the combination with a carding cylinder and doffer, of a support including a guideway coextensive with the axial length of the carding elements, a carriage movable along the guideway, suction nozzles mounted on the carriage to traverse the carding elements, and means for hinging the support to the machine frame so that said support, together with the carriage and nozzles, can be turned to and from the carding elements.



1,459,833. KNOTTING MECHANISM FOR TYING SACKS. FRANK O. LINDGREN, Minneapolis, Minn. Filed Apr. 3, 1922. Serial No. 549,345. 7 Claims (Cl. 226—57.)

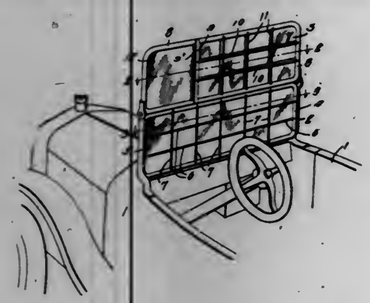


1. A knotting mechanism for tying sacks comprising means for laying a cord around the mouth of the sack, an oscillating arm, two spaced fingers on the free end of said arm, a rock shaft mounted on said arm, a finger carried by said rock shaft and adapted to move into and out of the space between said spaced fingers, means for causing the first portion of the laid cord to pass back of all of said fingers, means for causing the second portion of the laid cord to pass behind said spaced fingers and in front of the other finger, and means for closing the last mentioned finger upon the second portion of the laid cord.

1,459,834. WINDSHIELD PROTECTOR. ANGUS C. MCKINNON, Maxton, N. C. Filed Oct. 24, 1921. Serial No. 509,956. 1 Claim. (Cl. 296—84.)

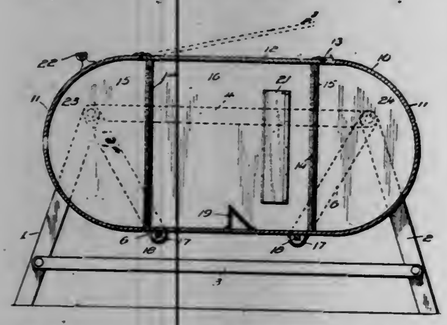
A windshield, comprising a metallic frame and glass pane therein, horizontally and vertically disposed metallic elements connected with said frame and extending across the panel, said elements lying adjacent the surfaces of said glass pane and having their free ends

rigidly united in position, the metallic elements at one side of the frame positioned in front of the driver's seat,



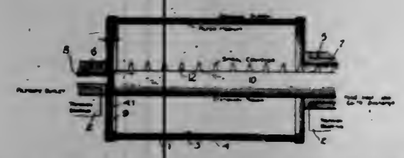
being arranged so as to leave that portion of the glass pane uncovered to provide a clear vision space.

1,459,835. WASHING MACHINE. RUDOLPH MADSEN, Klamath Falls, Oreg. Filed Oct. 28, 1921. Serial No. 511,115. 1 Claim. (Cl. 68—21.)



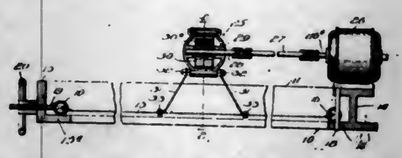
In a washing machine, a supporting frame, a swinging receptacle carried thereby and having the inner face of each of its side walls provided with a pair of spaced vertical guides, the guides on one side wall opposing the guides on the other side wall, a pair of transversely disposed foraminous partitions slidably mounted in said guides and providing said receptacle centrally thereof with a clothes chamber, and clothes turning elements secured to each side wall and to the bottom of said receptacle.

1,459,836. FILTER. FRED W. MANNING, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,507. Renewed Nov. 6, 1922. Serial No. 599,442. 11 Claims. (Cl. 210—180.)



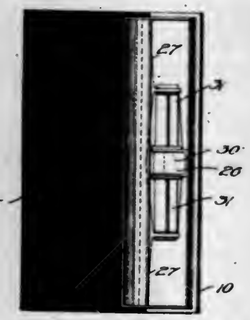
2. A filter, comprising the combination of a hollow cylindrical shell, end members closing said shell, a sludge inlet in one of said end members, a filtrate outlet in the other of said end members, filtering means within said shell, and a conveyor for removing through said sludge inlet the solids filtered from the sludge.

1,459,837. VIBRATING SCREEN. BENJAMIN A. MITCHELL, Garfield, Utah, assignor of two-thirds to Minnie L. Mitchell, Magna, Utah. Filed Jan. 2, 1918. Serial No. 209,920. 17 Claims. (Cl. 83—56.)



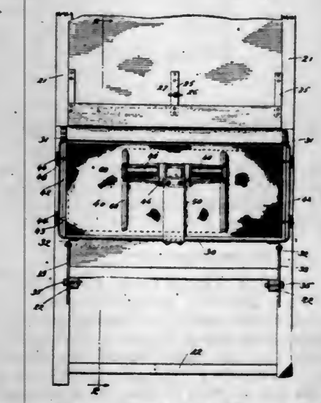
1. In apparatus of the class described, a screen, means for supporting said screen and maintaining a high tension therein, and means positively connected to said screen for producing minute circular vibrations therein.

1,459,838. VIBRATING SCREEN. BENJAMIN A. MITCHELL, Garfield, Utah, assignor of two-tairds to Minnie L. Mitchell, Magna, Utah. Filed May 6, 1918, Serial No. 232,798. Renewed Jan. 25, 1923. 20 Claims. (Cl. 83—56.)



1. In apparatus of the class described, a screen, supporting means connected to said screen, means located in the plane of the screen for producing high frequency vibrations in a plane perpendicular to the plane of the screen, and means for transmitting said vibrations to said screen.

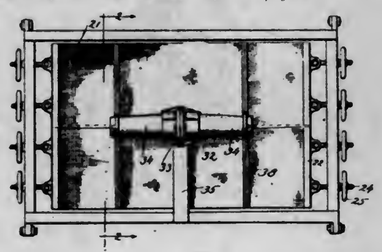
1,459,839. VIBRATING SCREEN. BENJAMIN A. MITCHELL, St. George, N. Y., assignor of two-thirds to Minnie L. Mitchell, Magna, Utah. Filed Oct. 16, 1918, Serial No. 258,466. Renewed May 17, 1923. 26 Claims. (Cl. 83—56.)



1. In apparatus of the class described, an inclined screen supported in substantially fixed position, and means

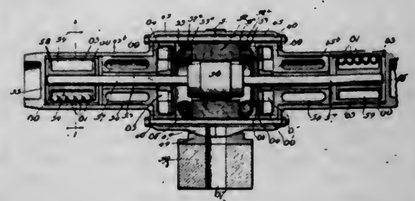
for producing in said screen a plurality of simultaneously acting series of minute circular vibrations in planes perpendicular to the plane of the screen.

1,459,840. VIBRATING SCREEN. BENJAMIN A. MITCHELL, Garfield, Utah, assignor of two-thirds to Minnie L. Mitchell, Magna, Utah. Filed Oct. 21, 1918. Serial No. 258,981. 12 Claims. (Cl. 83—56.)



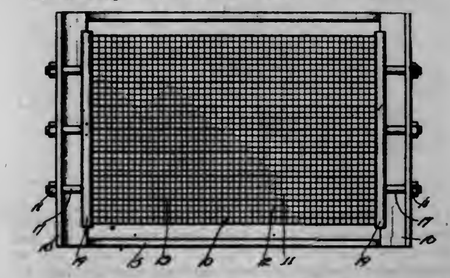
1. The combination in a screening machine, of a stationarily supported screening medium, means for mounting said screening medium in an inclined position with the lower parts thereof having a lesser slope than the upper parts thereof, means for introducing loose materials on to the upper part of said screening medium, and means for producing substantially circular vibrations in said screening medium as said materials pass thereover.

1,459,841. VIBRATOR FOR SCREENING MACHINES, ETC. BENJAMIN A. MITCHELL, Garfield, Utah. Filed Feb. 6, 1919. Serial No. 275,321. 26 Claims. (Cl. 74—14.)



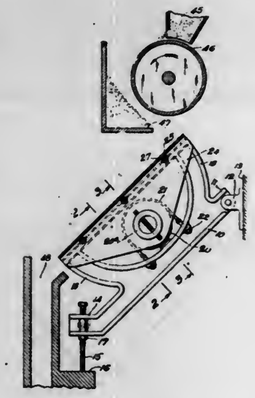
1. In combination, a rotating system mounted to have freedom of motion in a plane transverse to the axis of rotation, and means mechanically free of said system, and impelled thereby adapted to provide an eccentrically disposed mass center, whereby a moment having a rotating instantaneous axis is set up producing harmonic motion by said system in closed orbits transverse to said axis.

1,459,842. SCREENING MACHINE AND SCREEN CLOTH THEREFOR. BENJAMIN A. MITCHELL, St. George, N. Y. Filed May 23, 1919, Serial No. 299,090. Renewed Apr. 26, 1923. 7 Claims. (Cl. 83—56.)



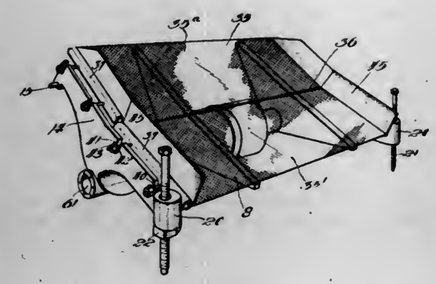
1. A woven wire screen cloth adapted to be supported in a state of tension and set into vibration by impact comprising a warp and weft of relatively fine wires, said fine wires being replaced at predetermined intervals with relatively heavy wires arranged to receive initially the stress of vibration.

1,459,843. VIBRATING SCREEN. BENJAMIN A. MITCHELL, St. George, N. Y. Filed July 7, 1919, Serial No. 308,922. Renewed Apr. 19, 1923. 18 Claims. (Cl. 83—56.)



1. In combination, a vibrator, supporting members carried by said vibrator arranged to be actuated in different phases, and a screen mounted on said supporting members.

1,459,844. VIBRATING SCREEN. BENJAMIN A. MITCHELL, Garfield, Utah. Filed Dec. 22, 1919. Serial No. 346,751. 19 Claims. (Cl. 83—56.)

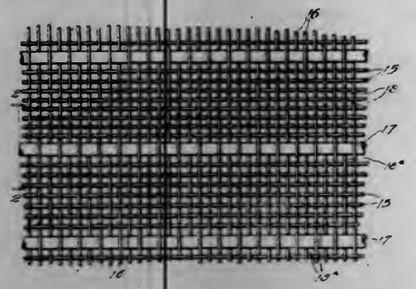


1. In screening apparatus, a supporting frame comprising upstanding parallel end members, a horizontal supporting base member arranged to connect integrally said end members, and means for pivotally supporting said frame.

1,459,845. SCREENING MACHINE AND SCREEN CLOTH THEREFOR. BENJAMIN A. MITCHELL, Garfield, Utah. Filed Sept 30, 1920. Serial No. 413,843. 10 Claims. (Cl. 83—56.)

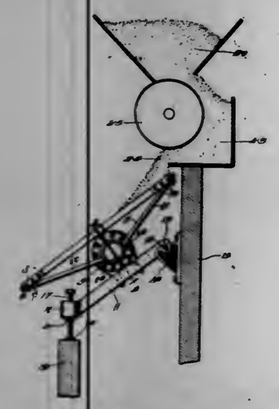
1. A wire screen cloth adapted to be vibrated in screening machines comprising a warp and weft of relatively

fine wires, said fine wires being replaced at predetermined intervals with relatively heavy wires having an oblong



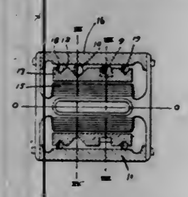
cross-section whereby a reinforced screen cloth having substantially uniform mesh throughout is provided.

1,459,846. VIBRATING SCREEN. BENJAMIN A. MITCHELL, Garfield, Utah. Filed Sept. 30, 1920. Serial No. 413,844. 12 Claims. (Cl. 83—56.)



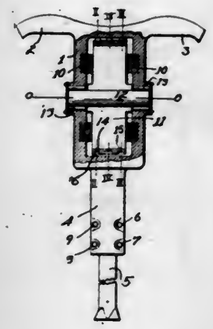
1. In a screening machine, the combination with a vibrator having a casing adapted to execute vibration in paths forming closed orbits, of a plurality of supporting devices respectively mounted on different parts of said casing, and screens on each of said devices.

1,459,847. DIFFERENTIAL VIBRATOR. BENJAMIN A. MITCHELL, Garfield, Utah. Filed July 26, 1921. Serial No. 487,818. 9 Claims. (Cl. 74—14.)



1. In a vibrator, a frame and a rotor adapted to rotate with respect to said frame and in running balance, a mass radially disposed and adapted to rotate at less than the speed of the rotor, a second mass driven at the speed of the rotor, both of said masses driven by but free from fixture with said rotor.

1,459,848. PERCUSSION DRILL AND THE LIKE. BENJAMIN A. MITCHELL, Garfield, Utah. Filed July 26, 1921. Serial No. 487,819. 15 Claims. (Cl. 74—14.)



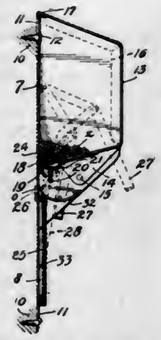
1. In percussion apparatus, a rotor, a stationary frame having a circular surface adjacent to the rotor in running balance adapted to rotate in said frame, an annular path between said rotor and said surface, and a mass adapted to roll therein in contact with said frame surface and said rotor, a second mass in a pocket within said rotor in contact with and adapted to contact with said stationary surface during the revolution of the rotor, and means for rotating the rotor.

1,459,849. PACKAGE FOR BRAID OR THE LIKE. OLIVER MITCHELL, Brookline, Mass. Filed Mar. 30, 1921. Serial No. 456,892. 3 Claims. (Cl. 206—51.)



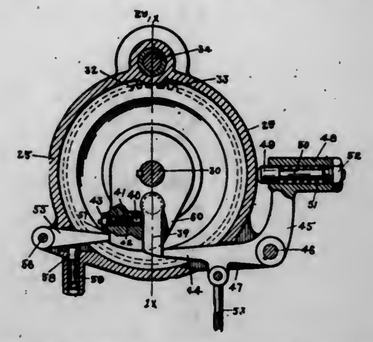
1. A package for braid or the like, made up of a pair of relatively wide cover parts, connected at their ends and carrying a relatively narrow spindle, or load receiving extension at the free ends of the cover, adapted to be folded in between the covers.

1,459,850. MATCH BOX. LEWIS S. MOORE, Minneapolis, Minn. Filed Nov. 10, 1921. Serial No. 514,233. 14 Claims. (Cl. 206—21.)



1. The combination with a receptacle having a match escape passageway, of a feed blade movable into and out of the receptacle through said passageway, and an escapement normally closing said passageway and arranged to be operated by the feed blade to open said passageway.

1,459,851. CLUTCH. WILLIAM F. MORSE, Rochester, N. Y., assignor to Samuel R. Parry, Rochester, N. Y. Original application filed June 29, 1918, Serial No. 242,648. Divided and this application filed Sept. 28, 1920. Serial No. 413,399. 2 Claims. (Cl. 192—29.)

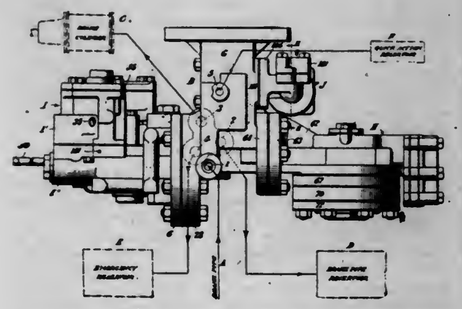


1. A clutch for a box covering machine, comprising a hub, having a keyway therein, a sleeve on which said hub is adapted to rotate, said sleeve hving a key therein, a crank for rocking said key into engagement with the keyway in the hub and causing the sleeve and hub to rotate together, a spring back of said crank, an arm integral with said sleeve having a recess therein, said crank swinging in said recess and projecting beyond it, a latch engaging the forward side of said crank to move it and disengage said key from said keyway, a latch engaging the rear side of said arm to prevent backward movement thereof, said latches being pivoted on a stationary casing and being substantially in line with and pointing toward each other to hold said arm stationary between said latches.

1,459,852. MANUFACTURE OF ETHYL ACETATE. MARTIN MUGDAN and WILLY HERRMANN, Nuremberg, Germany, assignors to Consortium für Elektrochemische Industrie G. m. b. H., Nuremberg, Germany. Filed Nov. 26, 1913. Serial No. 803,279. 13 Claims. (Cl. 260—106.)

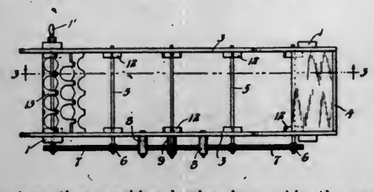
1. The process of making ethyl acetate which comprises bringing acetaldehyde in contact with aluminum alcoholate and a substance containing a halogen.

1,459,853. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 24, 1921. Serial No. 503,011. 85 Claims. (Cl. 303—27.)



1. An air brake apparatus comprising a triple valve, a brake cylinder, a brake pipe connected to the triple valve, a main slide valve in said triple valve, a main actuating piston connected to said slide valve, and a pilot valve to admit brake pipe pressure on opposite sides of the main actuating piston independently of the main slide valve, said pilot valve operating upon a reduction of brake pipe pressure to exhaust brake pipe air from one side of said actuating piston to permit brake pipe air on the opposite side of said piston to move it and the main slide valve into position to admit air to the brake cylinder.

1,459,854. POTATO-SORTING MACHINE. HJALMER A. NELSON, Detroit, Minn. Filed Jan. 2, 1923. Serial No. 610,138. 14 Claims. (Cl. 130—32.)



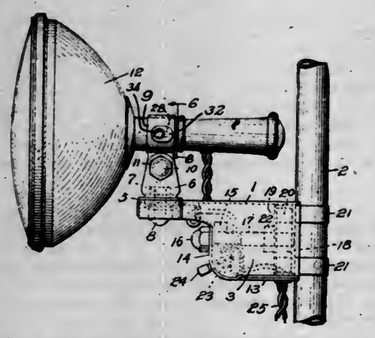
1. A sorting machine having in combination, a frame having longitudinally extending side members, a reticulate articulated endless apron disposed between said side members agitating and propelling members at each end of said apron over which said apron travels and means for positively driving said agitating and propelling member.

1,459,855. SHEET-METAL ROOFING. HARRY LOUIS OLDEN, Cincinnati, Ohio. Filed Nov. 30, 1920. Serial No. 427,401. 1 Claim. (Cl. 108—18.)



A metal roofing sheet having non-complementary V-ridges along two opposite ends thereof, adapted for relative ridge nesting for lap joining two sheets to provide a connecting seam, with the crowns of the nested ridges in contact, one ridge of the sheet having its opposite walls and at the base thereof corrugated longitudinally for breaking a continuous contact between the walls of the non-complementary ridge when nested to form a connecting seam.

1,459,856. SPOTLIGHT BRACKET. OTHO M. OTTE, Tarentum, Pa. Filed Sept. 10, 1920. Serial No. 409,425. 5 Claims. (Cl. 240—7.)



1. In a spot-light bracket, a hollow main arm, adjustable clamping means for mounting said arm on a sup-

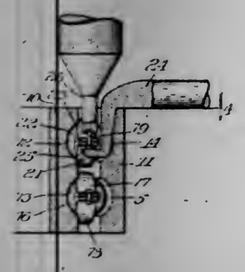
port, including support-engaging elements spaced longitudinally with relation to the support, a single tightening device for said elements and means for evenly distributing the pull of said device on said elements, a switch for the spot light circuit and a conduit for wires, said tightening device, switch and conduit being contained in said hollow arm.

1,459,857. SLIDE RULE. OLIN D. PARSONS, West Englewood, N. J. Filed May 26, 1919. Serial No. 299,964. 9 Claims. (Cl. 235—70.)



1. A calculating device comprising a member having a scale thereon unequally graduated to indicate a series of values raised to a predetermined power, and relatively movable graduated means adapted to cooperate therewith for adding or subtracting powers or roots of said values.

1,459,858. BALL BEARING. HARRY N. PARSONS, Chicago, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1922. Serial No. 559,781. 6 Claims. (Cl. 64—59.)



1. In a ball bearing, inner and outer concentric race members, parallel raceways therein, one of said raceways having filling slots, the other raceway being uninterrupted by filling slots, a set of balls in each raceway, said uninterrupted raceway being adapted to be filled with balls by displacing the race members eccentrically to each other, and a separate retainer for each set of balls, each retainer comprising two pieces, one of which lies on the inside of said balls, the other on the outside of said balls.

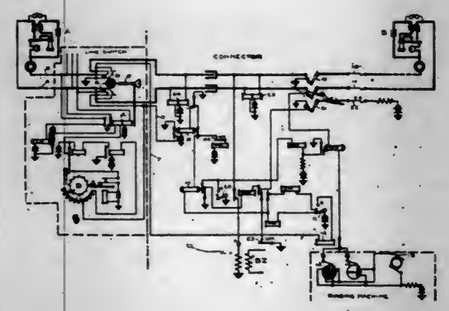
1,459,859. MECHANICAL SWITCHING SYSTEM. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed June 12, 1919. Serial No. 303,621. 18 Claims. (Cl. 179—18.)

1. In a telephone system, a telephone line, an impulse transmitting device for sending combinations of impulses differing only in character over two sides of said telephone line in series, an impulse receiving device variably operated in response to said impulse transmitting device,



and an automatic switch which assumes a position in accordance with the adjustment of said impulse receiving device.

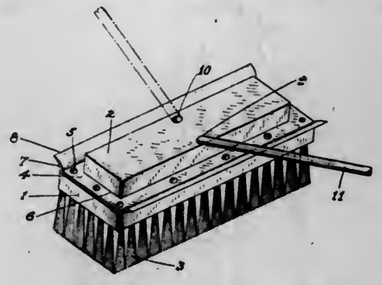
1,459,860. AUTOMATIC TELEPHONE SYSTEM. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed July 15, 1919. Serial No. 311,064. 11 Claims. (Cl. 179—18.)



1. In an automatic telephone system, a plurality of subscribers' lines of different classes, means including final connector switches for interconnecting said lines, a single trunk terminating at each of said switches, a signaling device associated with each subscriber's line, and means for discriminating in which class of lines a call originates for variably operating said signaling devices.

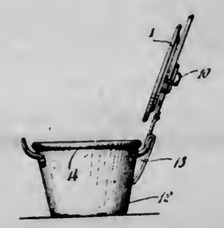
1,459,861. COMBINED BRUSH AND SCRAPER. JOHN J. REARDON, Philadelphia, Pa. Filed Apr. 29, 1922. Serial No. 557,344. 1 Claim. (Cl. 15—111.)

The combination with a street cleaning brush having a body formed with an upwardly projecting, rectangular, central position, of a plate having a central opening corresponding in shape to and receiving the upwardly projecting portion of the body of the brush, means passing through the plate and engaging the body of the brush for holding said plate in position, said plate having its opposite longitudinal portions provided with upwardly and outwardly diverging scraping blades, the brush body being formed at its middle with oppositely disposed,



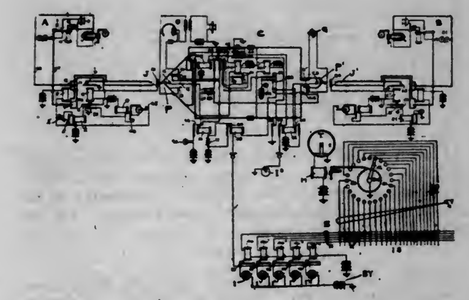
downwardly and convergently extending sockets, and a handle adapted to be disposed in either of said sockets whereby either blade may be used.

1,459,862. HINGE FOR VESSEL COVERS. CHARLES SCUDDER, Long Island City, N. Y. Filed Feb. 3, 1922. Serial No. 533,794. 5 Claims. (Cl. 220—32.)



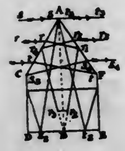
1. In combination, a vessel provided with a handle and a cover having a projection, a hinge, a recessed portion for said hinge engaging said handle around which the cover may be rotated, and a movable clamp for said hinge to engage and hold the projection on said cover.

1,459,863. MEASURED-SERVICE TELEPHONE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,415. 11 Claims. (Cl. 179—7.)



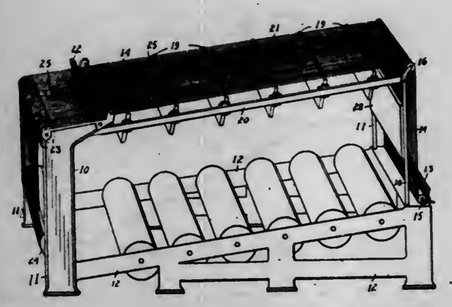
1. In a telephone system, the combination with a subscriber's telephone line, of a register mechanism for the said line located at a main station, of a second register mechanism for the said line located at a substation on the line, and means operative under the control of the main station registration mechanism to operate the substation mechanism a fractional number of times the main station mechanism is operated.

1,459,864. ERECTING PRISM FOR TELESCOPES AND OTHER OPTICAL INSTRUMENTS. ALFRED TAYLOR and HAROLD DENNIS TAYLOR, York, England. Filed July 20, 1920. Serial No. 397,712. 4 Claims. (Cl. 88—1.)



4. A roof erecting prism formed of one solid piece having a single roof edge prism formed on each of two of the opposite sides of a central parallel sided portion the vertices of the roof-edged prisms being at right angles to each other.

1,459,865. YARN-INSPECTING MACHINE. HERVEY W. UNGER, Falconer, N. Y. Filed July 9, 1921. Serial No. 483,446. 6 Claims. (Cl. 28—57.)

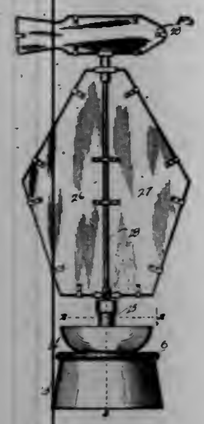


1. The combination in a frame having a plurality of spools over which yarn is run, of a plurality of spaced inspection boards mounted thereon over which said yarn is also run, the parts being so located that said spools can be seen through the spaces between said boards.

1,459,866. SIGN SUPPORT. CLARENCE DALE VEST, Stockton, Calif. Filed Mar. 28, 1922, Serial No. 547,593. Renewed May 15, 1923. 1 Claim. (Cl. 40—145.)

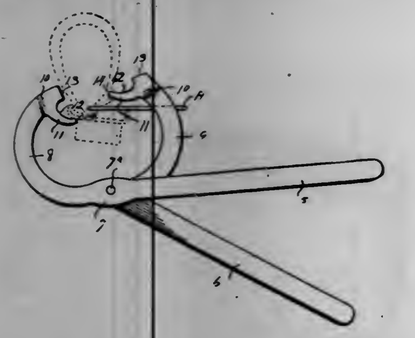
In a device of the character described, the combination of a base, a plate mounted on said base, a filler mounted within said base and adapted to add weight thereto, a bead formed upon the upper edge of said base, a bowl adapted to rock on said plate and to contact said bead, a shaft rotatably secured to said bowl,

display means carried on said shaft, said display means consisting of flat wing-like surfaces adapted to be con-



tacted by a wind to cause a rocking motion of said bowl and means for returning said bowl to its normal position.

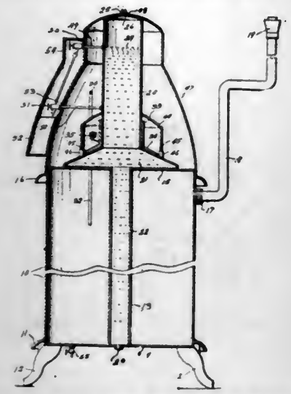
1,459,867. TIRE TOOL. JULES A. VOIROL, Hartford, Conn. Filed Aug. 14, 1920. Serial No. 403,476. 2 Claims. (Cl. 157—6.)



1. A tire tool comprising a pair of handles, each handle having one of its end portions extended to one side of said handle to provide a jaw, an extension extending from the inner longitudinal edge of each jaw, each of said extensions being disposed substantially at right angles to the jaw thereof and inwardly of the end face of the jaw, the end face of each jaw adjacent said extensions being arranged to alternately engage the side wall of a tire, said extensions being arranged to alternately engage a tire rim and the side wall of the tire remote from the wall engaged by the end face of the opposite jaw, the extension engaged with the tire rim serving as a fulcrum for the tool.

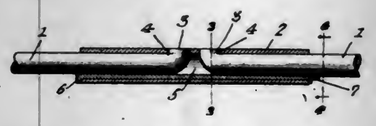
1,459,868. ELECTRIC STOVE. WILLIAM RALPH WILLIAMSON, Thayer, Mo. Filed Oct. 10, 1921. Serial No. 506,614. 9 Claims. (Cl. 219—38.)

1. A stove of the character described comprising a drum provided with a steam outlet pipe, a boiler located above the drum, a pipe leading from the upper end of the boiler and coiled to define a super heater coil, a U-shaped pipe connected with said super heater coil



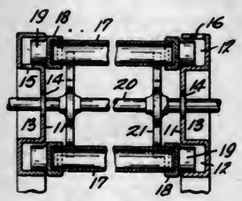
and connected with pipes leading downwardly into the drum for discharging steam into the latter, and a heating coil carried by the outside of the boiler.

1,459,869. ROD COUPLING. HIRAM ALLEN, Williamsburg, Kans. Filed Apr. 13, 1922. Serial No. 552,250. 2 Claims. (Cl. 287—113.)



1. In a device of the class described, a sleeve having a transverse opening; a rod in the sleeve and having a projection received in the opening; a retainer located between the sleeve and the rod and constituting means for retaining the projection in the opening, the retainer being provided at one end with a flange engaging one end of the sleeve; and a removable securing device in the retainer and engaging the other end of the sleeve.

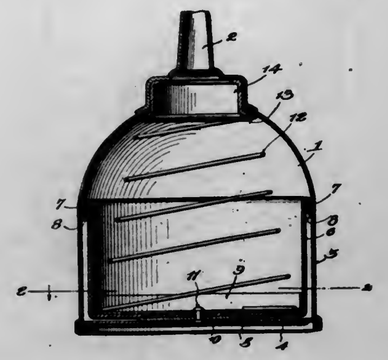
1,459,870. FURNACE GRATE. EMIL R. ANDERSON, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 443,080. 8 Claims. (Cl. 110—40.)



6. In a furnace, a grate comprising an endless series of hollow grate bars and guides therefor, the construction comprising means for effecting a circulation of air through said guides and grate bars from the ash pit to the fire box of the furnace.

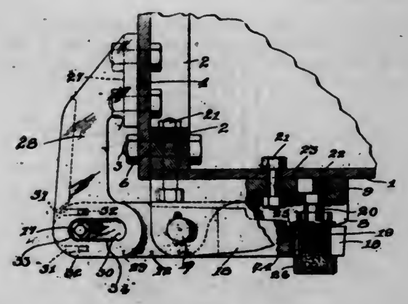
1,459,871. OIL CAN. TOLLEF O. BAKKEN, Bode, Iowa. Filed Sept. 19, 1921. Serial No. 501,795. 6 Claims. (Cl. 221—48.)

1. An oil can comprising a body section having its upper end offset inwardly and its bottom formed with a central opening, a flexible cup-member having its upper edge turned over and engaged with the offset portion of the body section, a pressure disk secured to the bottom of the cup-member and normally closing the bottom opening of the body section, a rigid pan se-



cured in the bottom of the cup-member, a top section fitted over the turned over edge portion of the cup-member on the body offset portion and securing the cup-member to the latter, and a coil spring compressed between the pan and the top section for manually holding the cup member extended.

1,459,872. HINGE. CHARLES R. BELK, Pittsburgh, Pa. Filed Apr. 19, 1922. Serial No. 555,648. 11 Claims. (Cl. 16—179.)

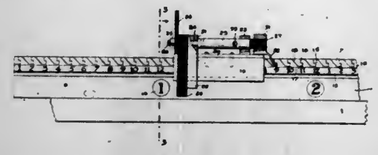


1. A hinge of the character described comprising a body plate carried by a stationary object, spaced ribs on said plate, perforated ears on the plate between said ribs, movable supporting arms mounted upon said ears for pivotal movement, spaced plates carried by a movable object, bracket arms formed integral with said plates and having pivotal connection with one end of the supporting arms and means engaging the other end of said supporting arms for adjusting the position of the same.

1,459,873. SAW GAUGE. ALLEN H. BLACKBURN, Hayward, Calif. Filed Feb. 8, 1922. Serial No. 535,062. 7 Claims. (Cl. 143—168.)

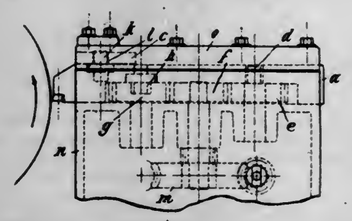
1. A saw gauge comprising a graduated bar adapted to extend from one side of a saw along the upper side of a saw table, a plurality of equi-distantly spaced upward projections on said bar, a channel shaped body member adapted to fit over the upper side of the bar,

a detent carried by said channel shaped member adapted to extend between any two and engage one of said pro-



jections and a member on said channel shaped member against which an edge of material to be sawed is adapted to engage.

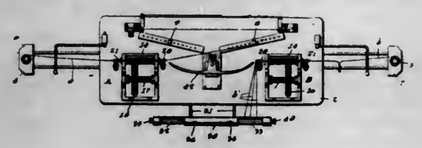
1,459,874. CURVE-FORMING REST FOR MACHINE TOOLS. ERNST BLAU, Ratibor, Germany. Filed Apr. 12, 1922. Serial No. 551,990. 7 Claims. (Cl. 82—14.)



1. A curve rest for the manufacture of curved profiles comprising a swinging tool holder having a pivot; a template adapted to guide said pivot; and driving means for moving said holder including a crank pin.

4. A curve forming rest for machine tools comprising a frame; a tool holder slidably mounted in said frame; a cover for said support and provided with a groove; a pin secured to said tool holder and projecting into said groove; and means including a gear wheel for moving said tool holder in the predetermined manner.

1,459,875. THREAD-SPLICING MACHINE. ARTHUR A. BRIGHAM, Boston, Mass. Filed Apr. 15, 1922. Serial No. 552,915. 5 Claims. (Cl. 117—6.)

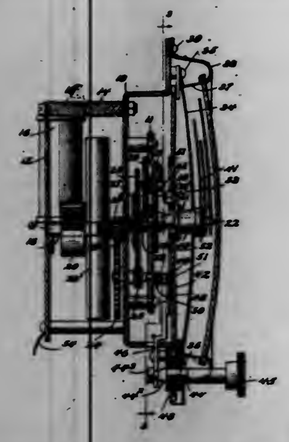


1. In a thread splicing machine, the combination of two opposed twister heads mounted substantially in alinement with each other, each constructed to hold a thread and each rotatable in opposite directions to twist or untwist a thread, and a spiral spring mounted in front of said heads to hold the individual strands of untwisted thread.

1,459,876. ALARM-CONTROLLING MECHANISM FOR CLOCKS. THADDEUS STEPHENS CASNER, Plainfield, N. J., assignor, by mesne assignments, to George Rawak, New York, N. Y. Filed Sept. 18, 1920, Serial No. 411,071. Senewed May 8, 1923. 9 Claims. (Cl. 58—19.)

1. In a clock, in combination, a frame, clock mechanism supported on the frame, and an electrical alarm controlling mechanism also supported on the frame, in

cluding a spring contact, a rotatable insulating member having a contact ring thereon against which the spring



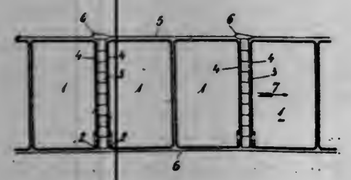
contact normally bears, and manually operable means for separating said spring contact and contact ring, for the purpose set forth.

1,459,877. CAPPED NAIL AND TACK. LEWIS DANIEL, Newport, Ky., assignor to Clarence J. Rennekamp, Cincinnati, Ohio. Filed Nov. 21, 1921. Serial No. 516,613. 6 Claims. (Cl. 85—55.)



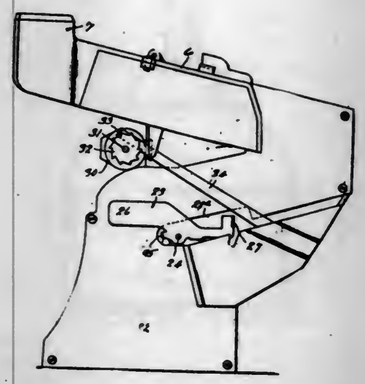
1. In combination with a headed tack or nail or the like, a piece having split outwardly curved edges, said piece being adapted to slip over the shank of the tack or nail, and a top piece adapted to cover the top of the said head, and engage over the split edges of said first mentioned piece.

1,459,878. GAS DUCT IN AIRSHIPS. LUDWIG DÜRR, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany, a Corporation of Germany. Filed June 28, 1920. Serial No. 392,537. 7 Claims. (Cl. 244—3.)



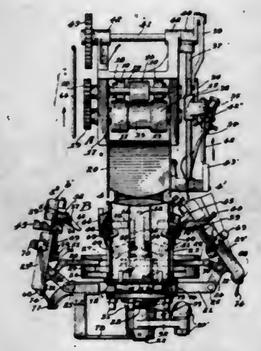
1. In an airship in combination, a gas cell, a valve in the wall of said cell near the bottom thereof, a flue extending from said valve upwards into the outer air and means for preventing the pressure exerted by said wall from throttling said flue.

1,459,879. REGISTER-OPERATING MECHANISM. JAMES H. EGAN, Ventnor, N. J. Original application filed Nov. 8, 1919, Serial No. 336,648. Divided and this application filed Apr. 22, 1920, Serial No. 375,842. Renewed Sept. 1, 1922. Serial No. 585,837. 3 Claims. (Cl. 235—91.)



1. The combination with duplicate delivery mechanisms each having a turning part and an escapement controlling the same, of a register, and means actuated by said turning parts respectively to operate the register differently.

1,459,880. BAG-OPENING MACHINE. EDWARD T. ENRIGHT, Jersey City, N. J., assignor to P. Lorillard Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1922. Serial No. 567,324. 18 Claims. (Cl. 226—49.)

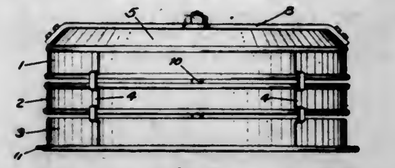


1. In a bag opening machine, a bag holder, provisions for opening a bag therein including mechanism operative for gripping the side edges of the bag for maintaining the same open, and means for permitting a second bag present in the holder to lie flat therein upon operation of the said mechanism, whereby the presence of the second bag will not interfere with the opening activity of the first bag.

1,459,881. WASHING MACHINE. WILLIAM FOBSTER FRASER, Port Robinson, Ontario, Canada. Filed Oct. 7, 1922. Serial No. 593,056. 3 Claims. (Cl. 259—140.)

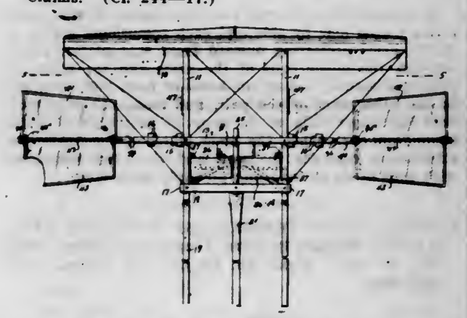
1. In a washing machine, a plunger ring having a peripheral conduit formed at the lower end thereof of substantially U shaped cross section, the outer wall of

the conduit coinciding with the ring proper, the lower edge of the outer wall of the conduit turned outwardly to form a substantially horizontal flange, and the lower



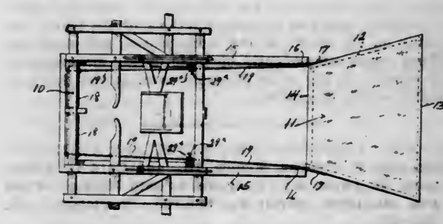
edge of the inner wall of the conduit turned inwardly to form a substantially horizontal flange, and the upper edge of the ring inclined inwardly.

1,459,882. AEROPLANE. EDWARD L. GOODIN, Copeland, Ark., assignor of one-half to George B. M. Will, Crabtree, Ark. Filed Feb. 8, 1922. Serial No. 534,946. 4 Claims. (Cl. 244—17.)



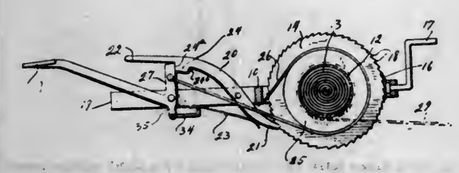
1. In an aeroplane, the combination with a supporting plane and a fuselage, of spaced pairs of spaced braces arranged at each side of the fuselage and extending fore and aft thereof, a lever extending intermediate each outer pair of spaced braces and pivotally connected thereto and provided at its outer end with propeller mechanism, the inner ends of said levers operating intermediate the inner pairs of spaced braces, other levers extending intermediate the inner pairs of spaced braces and having portions affording handles extending within the fuselage, the outer ends of said levers operating intermediate the outer pair of spaced braces, and a link connection between the inner ends of the first named levers and the outer ends of the last named levers.

1,459,883. AEROPLANE. EDWARD L. GOODIN, Copeland, Ark., assignor of one-third to George B. M. Will, Crabtree, Ark. Original application filed Feb. 8, 1922. Serial No. 534,946. Divided and this application filed Oct. 28, 1922. Serial No. 597,657. 1 Claim. (Cl. 244—29.)



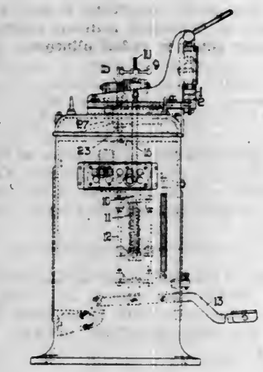
In an aeroplane, the combination with a warping normally horizontally disposed tail plane, of means for elevating or depressing either side of said plane embodying side members for said plane, pivoted T levers having the stems thereof secured to said side members, a pair of pivoted foot controls, flexible control elements connected at opposite sides of each of said foot controls and to the ends of the head of the T lever, and a yielding brake element engaged with each of said flexible control elements.

1,459,884. LAUNCHING DEVICE FOR AEROPLANES. EDWARD L. GOODIN, Copeland, Ark., assignor of one-third to George B. M. Will, Crabtree, Ark. Filed Jan. 20, 1923. Serial No. 613,926. 5 Claims. (Cl. 244—2.)



1. In a launching device for aeroplanes, a spring drum carried by the aeroplane and having wound thereon a cable unwound by tensioning of the springs of the drum, a ratchet and pawl means for preventing rotation of the drum in a direction winding the cable thereon, a brake for the drum, an operating mechanism for the brake, an engagement between the brake operating means and said pawl locking the brake operating means against movement when the brake is tensioned.

1,459,885. WELDING. CECIL ALLARTON HADLEY, Bradford, England, assignor to The Rose Street Foundry and Engineering Company, Limited, Inverness, Scotland. Filed Sept. 11, 1922. Serial No. 587,488. 3 Claims. (Cl. 219—4.)

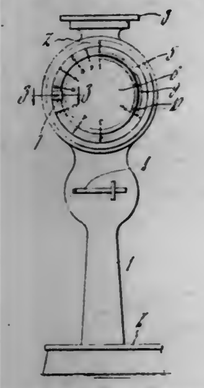


1. An electrode welding machine comprising electrodes, means to displace said electrodes towards one another and means to control the speed of displacement of said electrodes throughout their range of travel.

1,459,886. COMPUTING MACHINE. KARL R. HAMMOND, Springfield, Mass. Filed Dec. 31, 1919. Serial No. 348,655. 9 Claims. (Cl. 235—1.)

1. In a ratio computing machine, a pair of relatively movable and adjacent dials for indicating weight values,

and a separate gravity actuated measuring device controlling each dial arranged to move the same graphically



in accordance with the logarithms of weight values measured whereby a ratio of measured values of the same kind may be determined by said dials.

1,459,887. PATCH FOR TIRES. EARL C. HANDSCHUG, St. Louis, Mo. Filed Feb. 28, 1921. Serial No. 448,289. 1 Claim. (Cl. 152—24.)



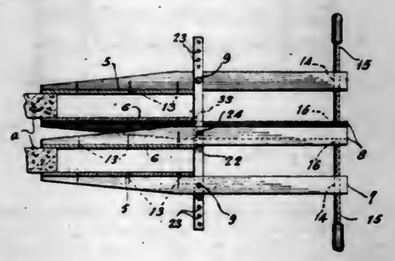
An inside tire patch, comprising a split sleeve composed of layers of fabricated material bonded together and having their edges in radial alinement, a series of separate loops secured to the sleeve at each side of the split, a non-metallic pliable rod passing through all of said loops between the edges of the sleeve to bind the sleeve around an inner tube, and a flap having one edge overlapped by one of the layers of the sleeve at one side of the split beyond the ends of the series of loops at that side of the split, said flap extending across the split beyond the opposite ends of the loops at the opposite side of the split, and said flap extending beyond each end of the sleeve.

1,459,888. PROCESS AND TOOL FOR MAKING LEATHER BUTTONS. MOSES D. HEYMAN, Ozone Park, N. Y., assignor to Felix Hertz, New York, N. Y. Filed July 11, 1922. Serial No. 574,238. 8 Claims. (Cl. 79—1.)



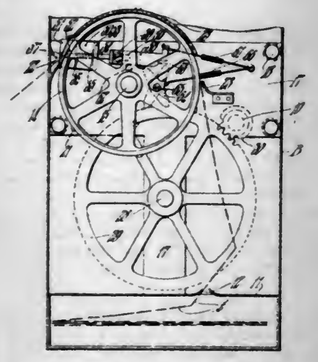
1. A method of making a leather button with a loop shank, comprising the interweaving of a strip upon itself, bringing a marginal loop of the weave opposite an intermediate mesh of the weave, and pressing the loop upon the end of a rigid outstanding member to force it through said mesh and contract the weave around the stem of the loop.

1,459,889. CONCRETE-WALL FORM. GLEN B. HOAG, Fullerton, Calif. Filed Nov. 7, 1921. Serial No. 513,477. 1 Claim. (Cl. 25—131.)



In a concrete wall form, the combination of two single forms placed side by side and each comprising a pair of plates, arms projecting upward from said plates, means between the upper ends of the arms and the plates to pivotally connect one of the arms of each pair of plates to the other arm of the pair, and means to adjustably hold the upper ends of the arms of each pair of plates away from each other, the inner plates of the forms constituting a core for the wall and the arms associated with said inner plates being pivotally connected.

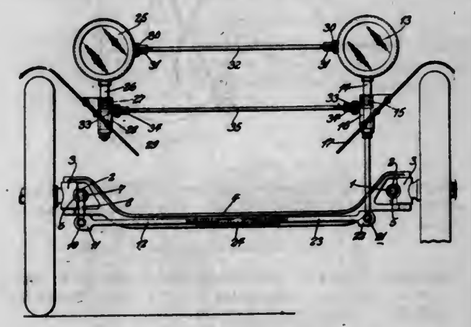
1,459,890. STRIP FEEDING AND PUNCHING APPARATUS. EDWARD B. HINE, Longmeadow, Mass. Filed May 9, 1922. Serial No. 559,679. 13 Claims. (Cl. 234—34.)



1. The combination with a measuring pump, of a member movable back and forth by and proportionately with the pump piston, ticket feeding means operable on movement of said member in one direction to move the ticket by distances equal to various fractions of its length depending on the stroke of the pump piston, and auxiliary feeding means subsequently operable during movement of said member in the other direction to move the ticket by complementary distances.

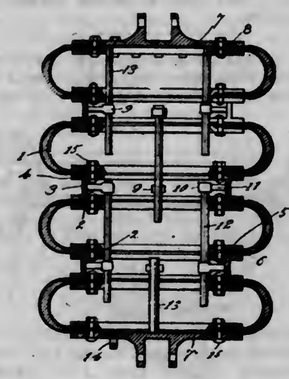
1,459,891. DIRIGIBLE HEADLIGHT FOR VEHICLES. CHARLES F. HOOVER, Venice, Ill., and ORIE L. THOMASON, St. Louis, Mo., assignors to said Hoover. Filed Aug. 30, 1922. Serial No. 585,193. 2 Claims. (Cl. 240—62.)

1. In a vehicle having a front axle, a steering knuckle arranged to turn on a vertical axis at one end of the axle, and a socket on the inner side of the steering knuckle, the combination of a steering arm extending forwardly through said socket and beyond the front side thereof for turning the steering knuckle, clamping nuts at the front and rear sides of said socket securing said arm in rigid position, a rod separate from said steering arm secured in the nut at the front side of said socket and extending downwardly and forwardly to the plane of the



axle, a transverse rod in the plane of the front axle having swivel connection with said first-named rod, a vertical lamp spindle mounted for turning movements, a forwardly extended rod in connection with the lower end of said spindle in the same horizontal plane with the forward end of said first-named rod and having swivel connection with said second rod, a lamp on the upper end of said spindle, a second lamp spindle, a lamp mounted on the second spindle, and a connection for turning the second lamp from the first one.

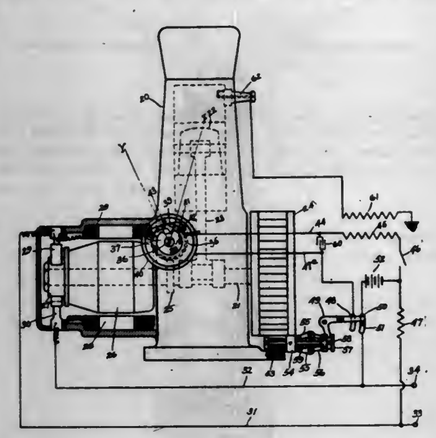
1,459,892. PNEUMATIC SPRING. JAMES G. HUGHES, Cincinnati, Ohio. Filed Apr. 6, 1922. Serial No. 550,020. 5 Claims. (Cl. 267—65.)



1. In a pneumatic spring device, the combination with a pneumatic tire casing of resilient material, of closing members for confining said ring lying across the axial opening therein at both sides thereof, so as to confine a body of air between the closing members, said air space being confined at its periphery by the casing.

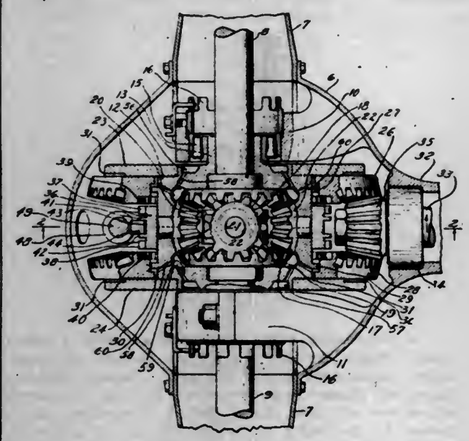
1,459,893. IGNITION SYSTEM. JOHN H. HUNT, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 10, 1919. Serial No. 288,938. 10 Claims. (Cl. 123—148.)

1. In an ignition system, the combination with an engine; of a relatively low voltage current source; a relatively high voltage current source; an ignition coil arranged to provide a spark at the instant of connection with the high voltage source, or a spark at the instant of break of connection with the low voltage source; a timer



arranged to time the make of the ignition circuit at the proper advance for engine running, and to time the break of the ignition circuit at the proper retard for engine starting; and means for connecting either current source with the ignition coil and timer.

1,459,894. REVERSIBLE DIFFERENTIAL GEARING FOR VEHICLES. GEORGE H. IRWIN, Chicago, Ill., assignor to Utilities Development Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 10, 1919. Serial No. 276,034. 10 Claims. (Cl. 74—99.)



1. In differential driving mechanism, the combination with differential gearing, of a rotatable hub, a shaft structure connected to rotate with said hub, end plates secured to said hub, peripheral flanges on said hub adjacent said end plates, transmission gears confined on said hub between said end plates and flanges and rotatable on said hub, means for rotating said gears, and clutch mechanism located between said end plates for clutching either of said gears in driving connection with said hub.

1,459,895. BLAST-FURNACE STOCK-LINE PROTECTION. EDWARD L. IVES, Chicago, Ill., assignor to Freyn, Brassert & Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 24, 1921. Serial No. 509,774. 2 Claims. (Cl. 266—31.)



1. In a blast furnace, protecting plates located at the stock line thereof, said plates containing in excess of three per cent of manganese.

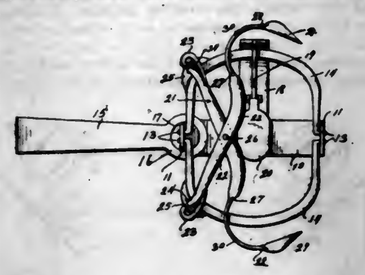
1,459,896. COUNTERSINK GAUGE. WILLIAM N. JOHN, Milwaukee, Wis. Filed Dec. 8, 1921. Serial No. 520,827. 3 Claims. (Cl. 33—169.)



1. A countersink gauge comprising a barrel, a sleeve slidable within the barrel, a plunger mounted for longitudinal adjustment within the sleeve, means yieldably urging said plunger to project outwardly from said barrel, said sleeve and said barrel having cooperating marks thereon for indicating the relative amount of projection of said plunger, and a stem in said sleeve for locking said plunger in adjusted position.

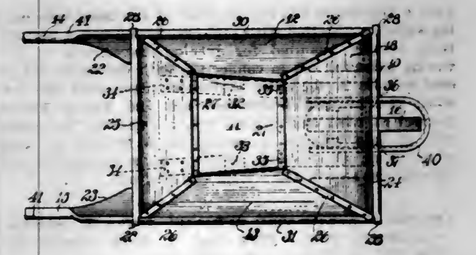
1,459,897. ANIMAL TRAP. LOUIS J. LA VALLE, Warren, Pa. Filed Sept. 9, 1922. Serial No. 587,185. 8 Claims. (Cl. 43—90.)

2. In a trap of the character described, a pair of main jaws, spring means normally tending to close the jaws, a trip mechanism for holding the jaws open in set position, a pair of pivotally connected pincher members operatively connected with the jaws, the pincher



members being of hook formation with their intermediate portions formed rigid and their hook portions reduced to define springs permitting yielding.

1,459,898. METAL WHEELBARROW. DANIEL C. MELVIHILL, Hannibal, Mo. Filed Feb. 10, 1922. Serial No. 535,482. 12 Claims. (Cl. 280—52.)



1. A metal wheel barrow having integral bottom, sides and handles.

1,459,899. GARAGE-DOOR-HOLDER DEVICE. OLE P. OVERLIEN, Black River Falls, Wis. Filed June 17, 1922. Serial No. 569,074. 2 Claims. (Cl. 292—278.)



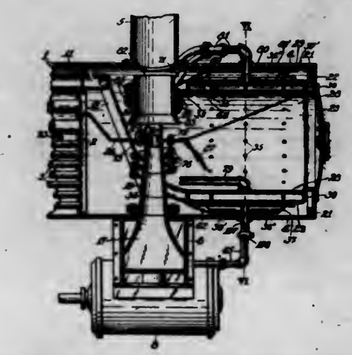
1. In a device of the character described, a pair of brackets adapted to be secured to the inner sides of a pair of outwardly swinging doors, a rod adjustable in length and having one extremity pivoted to one of the brackets, said rod being pivoted near its other end to the other bracket but projecting beyond said last named pivot, a spring catch engageable with said projecting end to lock the same when the doors are opened and means secured to the catch and extending to a point adjacent the door for releasing said catch.

1,459,900. METHOD OF MAKING SALICYLATES. MARK E. PUTNAM and JOHN MCCRADIE, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Feb. 21, 1921. Serial No. 446,745. 7 Claims. (Cl. 260—11.)

1. In a method of making an alkali-metal salt of salicylic acid, the steps which consist in neutralising

a solution of such acid with a carbonate of the desired metal, adding to the neutralising solution a small percentage, relatively to the amount of the resulting alkali-metal salicylate present, of a soluble salt of a common metal of the fourth group, secondary series of the periodic system, passing hydrogen sulphide through such solution, separating the latter from the resultant precipitate, and concentrating such solution to dryness.

1,459,901. MEANS FOR HEATING BOILER FEED WATER. BURR R. SKINNER, Aberdeen, S. Dak. Filed June 20, 1919. Serial No. 305,618. 4 Claims. (Cl. 122—428.)



1. A feed-water heater including two concentrically arranged rings, one end of each ring having two concavely curved portions, a head connected to the ends of the rings and having two curved portions connected to the curved portions of the rings, a head connected to the opposite ends of the rings, a feed-pipe arranged above and adjacent to the lower portion of the inner one of the rings and connected directly thereto, and two steam-jacket wall segments having top and bottom portions and also end portions secured to the outer side of the outer one of the two rings, the upper and lower portions of one end portion of each segment having concavely-curved portions corresponding to the curved head portions of the two rings.

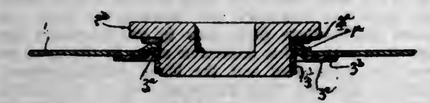
1,459,902. SEARCHLIGHT FOR THE GUIDANCE OR DETECTION OF AIRCRAFT. ELMER A. SPERRY, Brooklyn, N. Y. Filed Apr. 19, 1918. Serial No. 229,485. 16 Claims. (Cl. 176—51.)



8. In combination, an electric arc searchlight pivoted for movement about a substantially horizontal axis, a light condenser in said searchlight and means controlled by the position of the searchlight for passing a cooling draught of air over said condenser when any portion thereof is above the horizontal plane of the arc.

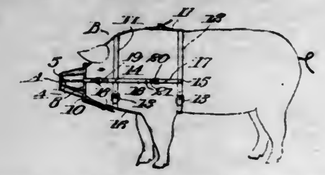
1,459,903. BUNG FOR METALLIC RECEPTACLES. GROVER F. BEHRINGER, Defiance, Ohio, assignor to The American Steel Package Company, Defiance, Ohio, a Corporation of Ohio. Filed Feb. 18, 1921. Serial No. 446,026. 5 Claims. (Cl. 220—39.)

1. In combination with a receptacle provided with a bung opening and an annular reinforcing plug sealing portion, a threaded sput having an annular flange extending laterally from said bung opening and terminating in an annular portion seated beneath each interlocking with said plug sealing portion, and a threaded



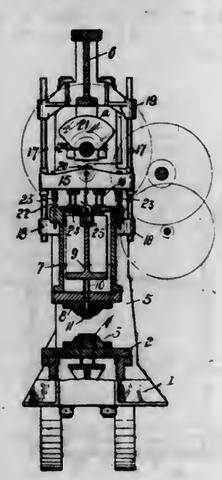
plug in said sput seated on said plug sealing portion and drawing the latter and said sput toward each other in clamping and sealing relation to said annular reinforcing portion of the receptacle surrounding said bung opening when drawn up.

1,459,904. BROOD-SOW MUZZLE. CARL F. BRACHT, Twin Brooks, S. Dak. Filed July 15, 1920. Serial No. 396,623. 1 Claim. (Cl. 119—133.)



A muzzle for the purpose specified having an attaching harness consisting of spaced straps, buckles to adjustably secure the straps in endless formation, sectional straps in crossing said straps secured thereto and having adjustable buckle connection, for the sections arranged intermediate the first straps, and the second straps having portions projecting beyond one of the first straps to mount the muzzle and buckles to secure the free ends of said portions located on the portions at a distance from the free ends.

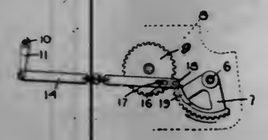
1,459,905. DRAWING PRESS. ARTHUR A. BYERLEIN, Toledo, Ohio, assignor to The Toledo Machine & Tool Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 3, 1920. Serial No. 421,491. 1 Claim. (Cl. 113—38.)



In a drawing press, a frame, a hollow vertically reciprocable shaping plunger carried by the frame, a vertically reciprocable blank holding plunger in the shap-

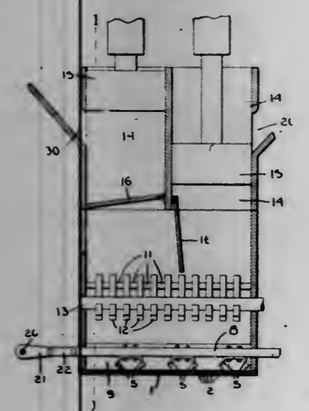
ing plunger, vertically alined guides carried by the frame and the opposite sides of the shaping plunger, cross bars spaced above the upper end of the blank holding plunger, means in said space for adjustably connecting the cross bars to the upper end of the blank holding plunger, guide rods projecting upwardly and downwardly from and secured intermediate their ends to the cross-bars and received in said guides, adjustable studs in the space between the cross bars and the blank holding plunger, extending upwardly from the upper end of the shaping plunger, spring bumpers carried by the cross bars and in registry with said studs and also arranged in the space between the cross bars and the blank holding plunger, a crank shaft carried by the frame and connected to the shaping plunger to actuate the latter, and cams on the crank shaft located in close relation to the tops of the cross bars and in the space between the upper ends of the guide rods to actuate the latter and thereby the blank holding plunger.

1,459,906. COMPRESSION-RELIEVING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HONORE DEMERS, Manchester, N. H. Filed June 17, 1921. Serial No. 478,330. 1 Claim. (Cl. 123—182.)



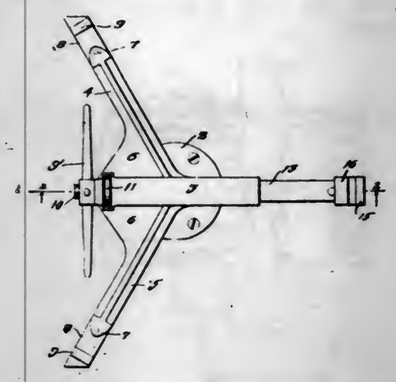
In a motor cycle, the combination with a motor cycle frame having a gear box, of an internal combustion engine having a shaft by which the compression in the cylinders may be relieved, a starting gear, a starting pedal, a sector gear rigid with the starting pedal and adapted to actuate the starting gear, an arm fast on said shaft, a slotted link pivoted to said arm, a guiding pin extending from the gear box and operating in said slot and by which the link is guided, and a cam on the periphery of said sector gear adapted to engage the end of the link and thereby operate the shaft to relieve the pressure in the engine cylinders.

1,459,907. PEAT MACHINE. FRED T. DOW, Bangor, Me. Filed Dec. 17, 1921. Serial No. 523,200. 10 Claims. (Cl. 41—28.)



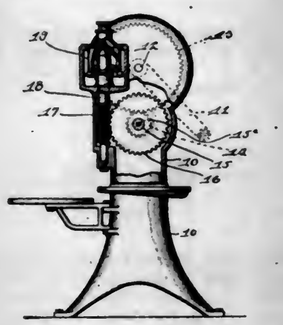
1. The combination with a plate-like member having a plurality of small apertures, of means for cutting peat adjacent the plate and for rubbing the peat through said apertures thereby to produce a peat product in the form of elongated fragments of closely-compacted peat having relatively small diameter.

1,459,908. RIM-STRAIGHTENING DEVICE. ALBERT J. DROLSHAGEN, Milwaukee, Wis., assignor to Milwaukee Pattern & Mfg. Co., Milwaukee, Wis. Filed Nov. 15, 1920. Serial No. 424,177. 1 Claim. (Cl. 153—32.)



An attachment for a machine of the class described having stationary arms and a movable arm adapted to support thereon a rim, a curved plate, a socket in the end of said movable arm adapted to receive therein the intermediate portion of said plate, and means at the ends of said plate for engagement with the inner side of a rim when straightening the same.

1,459,909. DEVICE FOR ADJUSTING BOWL AND BOWL SPINDLES ON CENTRIFUGAL SEPARATORS. GORDON F. FOWLER, Oak Park, Ill., assignor to Sears, Roebuck and Company, a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,587. 2 Claims. (Cl. 233—23.)

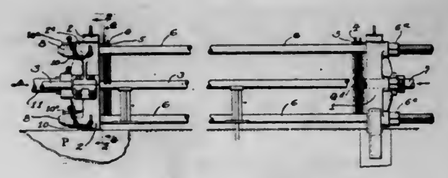


1. In a centrifugal separator the combination with a bowl of a spindle for supporting said bowl, said bowl and spindle being provided with counterpart recesses and projections for locking said spindle in relation to said bowl, a gear casing, a shaft journalled in said gear casing, a worm on said spindle, a worm gear connected with said shaft and engaging said worm on said spindle, a second gear on said shaft, a third gear for driving said second gear at a multiplied speed, means for driving said third gear, one extremity of said shaft being journalled in the wall of said gear casing and accessible from the exterior thereof, said shaft being provided on said extremity accessible from the exterior of the gear casing with means adapted to receive a tool for imparting rotation thereto in locating said bowl and spindle in relation to said counterpart recesses and projections thereon, and a detachable tool having a part corresponding with and being adapted to engage the said tool receiving part on said shaft.

1,459,910. METHOD OF REMOVING RUST FROM METAL ARTICLES. JULIAN S. GRAVELY, Wytheville, Va., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed July 22, 1922. Serial No. 576,865. 1 Claim. (Cl. 148—8.)

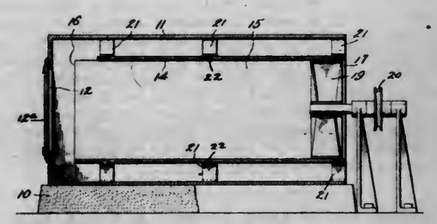
A method of removing rust from metal articles consisting in subjecting them to the action of a substantially neutral solution of the ammonium salt of an organic acid, and then, after a due interval of time, washing off the resulting slime produced by the reaction of the ammonium salt solution upon the rusted surface of the article.

1,459,911. FILTER PRESS. ALANSON McD. GRAY, Elizabeth, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 8, 1922. Serial No. 542,110. 1 Claim. (Cl. 210—177.)



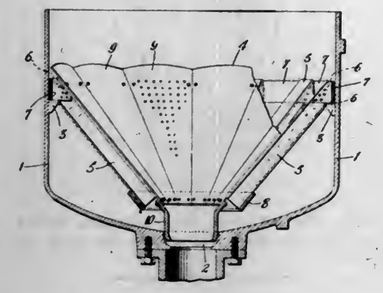
A filter press comprising in combination a fixed head, a movable head, tie-rods extending between said heads, extension heads threaded on said tie-rods at the end of the rods co-operating with said movable head, said extension heads having slots therethrough and keys for said slots normally co-operating with the outer face of said movable head for transmitting the thrust from said head to said tie-rods.

1,459,912. DRYING MACHINE. GIOVANNI IANIERI, Philadelphia, Pa. Filed Jan. 27, 1922. Serial No. 532,308. 5 Claims. (Cl. 34—19.)



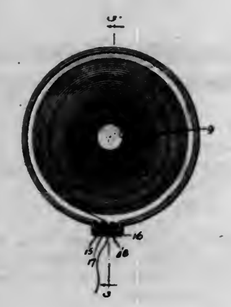
3. A device of the character described comprising an outer casing open at one end and having its other end provided with air inlet openings, means for regulating the passage of air through said inlet openings, an inner casing disposed within said outer casing in spaced relation to the walls thereof and having its rear end open and its forward end provided with a large opening, and a rotary ventilator fan mounted in said large opening.

1,459,913. DIGESTER AND STRAINER THEREFOR. FRANCIS E. JOHNSON, Jr., Orange, N. J., assignor to The M. W. Kellogg Company, a Corporation of Delaware. Filed June 1, 1921. Serial No. 474,245. 4 Claims. (Cl. 92—7.)



1. A digester apparatus comprising a tank and a strainer therein supported at one end only.

1,459,914. ROLL-FILM HOLDER. JOHN A. KNOBR, Bayonne, N. J. Filed June 8, 1921. Serial No. 475,952. 4 Claims. (Cl. 242—71.)

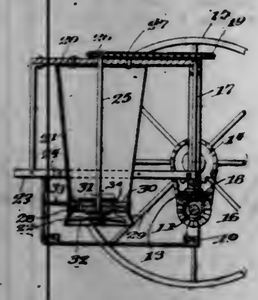


4. A roll film holder comprising a tubular body having a slot in its periphery, the edges of said slot being bent outwardly and then inwardly upon itself to form a pair of jaws, said jaws being adapted to press against each other, a piece of felt for each jaw to prevent admission of light in the holder, a side member at each end of the tubular body and each formed with a projection extending beyond the periphery of the tubular body and adapted to lie adjacent the ends of said jaws, said projections at the sides being formed with lateral members adapted to overlap a portion of the outer surface of the jaws whereby to prevent light entering into the holder from the ends of the jaws.

1,459,915. INSECTICIDE SPRAYER. VALENTINE KOEHMSTEDT, Grafton, N. Dak. Filed Apr. 6, 1921. Serial No. 459,090. 2 Claims. (Cl. 275—15.)

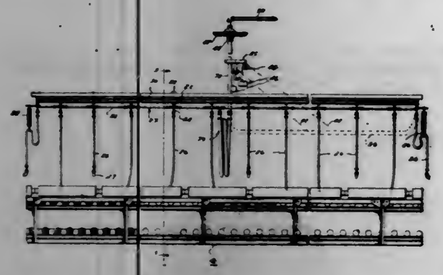
1. An insecticide sprayer for plants including a stationary insecticide hopper, a powder discharging means in the bottom of the hopper, a downwardly and outwardly flaring baffle wall carried by the bottom of the

hopper below the discharging means, and a centrifugal throwing means within the flared wall in position to re-



ceive powder thereon from the discharging means and throw said powder outwardly against the inner face of the said wall.

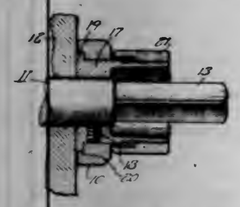
1,459,916. CONVEYING SYSTEM. JESSE E. MCBRIDE, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 21, 1921. Serial No. 516,564. 17 Claims. (Cl. 18—4.)



6. The combination with a conveyor for carrying molds having expansible cores, of a fluid conveying main moving with said conveyor, and conductors connected to said main and adapted to be detachably connected to said molds.

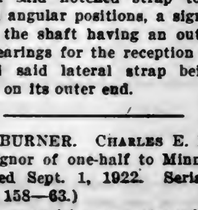
11. In the method of manipulating molds in the manufacture of molded articles, the continuous advancement of the molds and the inflation of portions thereof during their continuous advancement.

1,459,917. DIAL. ALFRED R. MCCANN, Hamilton, Ohio, assignor to The Liberty Machine Tool Co., Hamilton, Ohio, a Corporation of Ohio. Filed Apr. 20, 1921. Serial No. 464,999. 1 Claim. (Cl. 116—129.)



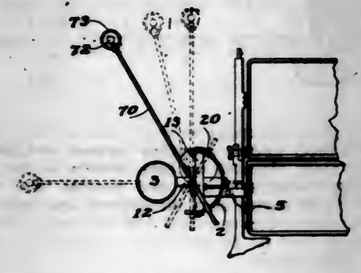
In a planer or the like, the combination of a support, a shaft rotatably journaled in the support, a sleeve fixed on the shaft and provided with a shoulder, a dial loosely fitted on the sleeve and against its shoulder, the inner face of the dial lying closely adjacent but not contacting the faces of the support, and a nut threaded on the sleeve and adapted to clamp the dial against the shoulder, the face of the support and the periphery of the dial being formed with co-operative indices.

1,459,918. STEPLADDER. SIDNEY A. MCGAW, Fresno, Calif. Filed Feb. 20, 1922. Serial No. 538,127. 2 Claims. (Cl. 228—38.)



1. In a step ladder having runners and a plurality of steps extending between the runners, a plurality of step braces, each brace having a socket adapted to receive an end of a step, the under wall of the socket extending beyond the face of the socket, an extension of said under wall being bent at an acute angle backward to the runner, and a portion of said under wall being pressed out so it depends downward in a common plane with the end wall of said socket.

1,459,919. VEHICLE SIGNAL. EDWARD F. MCGILLICUDDY, Seattle, Wash. Filed Aug. 9, 1922. Serial No. 580,699. 3 Claims. (Cl. 116—54.)

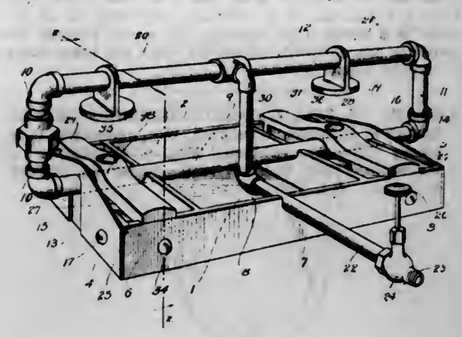


1. The combination with a bracket comprising a longitudinal strap having journal bearings along its upper edge, a circular-segmental strap having spaced notches in its edge, a transverse strap connecting the longitudinal strap and the circular-segmental strap, and extending outwardly of the longitudinal strap, and a supporting clamp secured to said longitudinal strap, of a shaft rotative within said bearings, and terminating at its rear end in an integral laterally extending control handle cooperating with said notched strap to maintain the shaft in adjusted angular positions, a signal arm secured upon said shaft, the shaft having an outward extension forward of its bearings for the reception and support of a spotlight, and said lateral strap being adapted to support a mirror on its outer end.

1,459,920. OIL BURNER. CHARLES E. MCKEE, Kansas City, Mo., assignor of one-half to Minnie Toner, Camden, Mo. Filed Sept. 1, 1922. Serial No. 585,683. 1 Claim. (Cl. 158—63.)

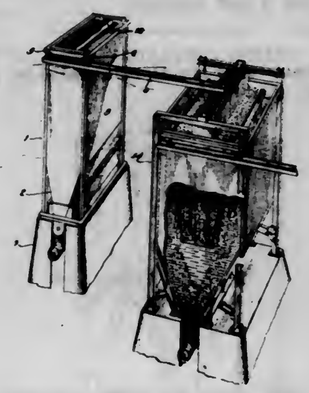
An oil burner comprising a rectangular base having two longitudinal side walls, two end walls and a bottom, two transverse partitions spaced from the end walls, the partitions and end walls having pipe receiving seats, a loop of pipe having an intake connection and orifices through which the fuel may discharge, said

pipe being received in the seats in the end walls and partitions, means fastened to the ends of the base for clamping the pipe onto the seats, and cross bars fastened to the base and having openings in line with the discharge



orifices of the pipe, the openings in the cross bars being in line with openings in the bottom of the base whereby air may pass up through the bottom of the base around the outlet orifices for the loop and after combining with the air, pass through the openings in the bars.

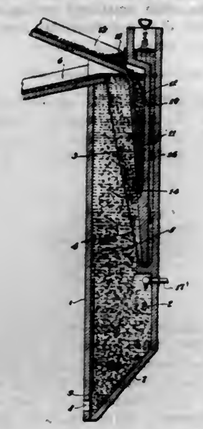
1,459,921. METHOD OF AND APPARATUS FOR THE HYDRODYNAMIC SEPARATION OF PARTICLES. THEODORE NAGEL, Brooklyn, N. Y. Filed Nov. 7, 1921. Serial No. 513,236. 9 Claims. (Cl. 83—82.)



1. The method of separating a material from a mixture of two materials and a liquid which method consists in projecting the mixture upwardly through and out of a liquid body to cause the materials of the mixture to travel at different velocities and the slower moving material to pass out of the mixture below the exit of the other material.

1,459,922. METHOD OF AND APPARATUS FOR THE HYDRODYNAMIC SEPARATION OF PARTICLES. THEODORE NAGEL, Brooklyn, N. Y. Filed Mar. 4, 1922. Serial No. 540,958. 6 Claims. (Cl. 83—82.)

1. The method which consists in projecting an unclassified unseparated mixture of particles through and in contact with a quiescent liquid body to dilute the same and thereafter projecting the particles into an upwardly moving liquid body at an angle to the direction of motion of said upwardly moving liquid body while so controlling the velocity and direction of the upwardly moving liquid as to cause the particles of one material to be carried upwardly with the upwardly moving liquid body and the particles of the other material to traverse or cross the upwardly moving liquid and to pass out of the same.



1,459,923. METHOD OF AND APPARATUS FOR TREATING MATERIAL WITH GAS. THEODORE NAGEL, Brooklyn, N. Y. Filed Apr. 26, 1922. Serial No. 556,810. 4 Claims. (Cl. 263—25.)

1. The method which consists in advancing a charge of material and a gas through a chamber horizontally and in opposite directions, all of the gas at all times during its passage through the chamber flowing in practically a uniform, helical, annular path, to force substantially all of the gas during each helical advancement thereof to contact with the charge and to present every particle of the charge to the gas during its passage through the chamber.

2. In an apparatus of the class described, a cylindrical member or shell, a cylindrical member within said shell extending longitudinaly thereof and spaced from the walls thereof and a helical member within the space between the shell and said cylindrical member, said cylindrical members and said helical member being rotatable as a unit.

1,459,924. CUSHION CAP FOR STAPLING MACHINES AND THE LIKE. LOU OBSTFELD, New York, N. Y., assignor to Markwell Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 550,048. 1 Claim. (Cl. 1—21.)



A cushion cap for stapling machines and the like comprising an upper dome-shaped cushioning member hav-

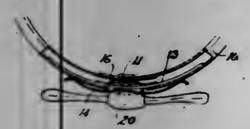
ing an inner dome-shaped face and an obliquely and inwardly disposed peripheral member, said upper member being provided with auxiliary pneumatic cushioning means in the form of a substantially centrally disposed indentation on the inner face thereof.

1,459,925. FLUID STRAINER. AUGUST OLIN, Alameda, Calif., assignor to Atlas Imperial Engine Company, Oakland, Calif., a Corporation of California. Filed Feb. 16, 1922. Serial No. 536,912. 5 Claims. (Cl. 210—164.)



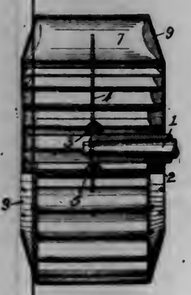
1. A strainer comprising an internally threaded casing, adapted to have fluid pressure conduits secured to the opposite ends thereof, and a plug screw threadedly arranged within said casing of a cross sectional area less than that of the internal cross section of the said casing having flattened sides that do not extend the entire length thereof.

1,459,926. TIE HOLDER. PETER OASI, Stockton, Calif. Filed Jan. 4, 1922. Serial No. 526,889. 3 Claims. (Cl. 24—60.)



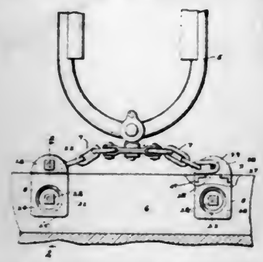
1. A necktie holder comprising a frame bar, an inwardly projecting member mounted on the inner side thereof and having a slot therein for engaging a collar button, a fastening element secured to the outer side of the frame bar for detachably connecting a tie thereto, and spring fingers arranged on the outer side of the frame bar to engage the collar and secure the device in a proper position thereon.

1,459,927. FAN. GERALD E. OTIS, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed May 9, 1921. Serial No. 468,201. 1 Claim. (Cl. 230—11.)



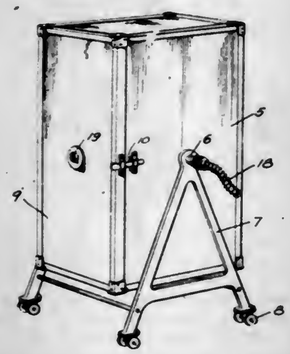
In a fan of the class described, a hub, a disk axially secured to the hub and projecting radially therefrom, said disk having a set of equidistantly spaced inwardly projecting slots provided in its periphery entirely around the same, a set of blades of curved form in cross section each having a centrally disposed slot in its inner edge and adapted to enter a slot of the disk with its slot straddling the inner end wall of the disk slot, and annular side members disposed at the outer ends of the blades in rigid stud and slot connection therewith, the side members being spaced at their inner edges from the hub and each extending outwardly at an incline to a radial plane whereby the spaces between the members are narrowed outwardly from the inner edges of the side members.

1,459,928. LOWER-STANCHION-SECURING MEANS. ROBERT F. RASMUSSEN, Oshkosh, Wis., assignor to C. A. Libbey Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1919. Serial No. 347,276. 4 Claims. (Cl. 119—149.)



1. A stall appliance comprising separate bracket members adapted to embrace a curbing, an upwardly projecting ear carried by each bracket member, and a transversely extending bolt extending through and connecting the ears of the bracket members and said bracket members with a stall appliance.

1,459,929. DRYING APPARATUS. ORWELL C. REEVES, Toledo, Ohio. Filed Jan. 24, 1921. Serial No. 439,412. 4 Claims. (Cl. 34—39.)

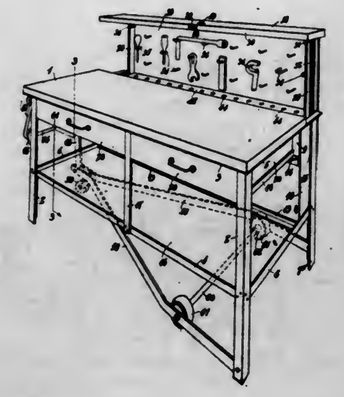


2. A drying apparatus comprising a frame, a cabinet rotatably mounted thereon, the cabinet having an apertured pipe adjacent one wall for the introduction of heated air and the like and its opposite wall being formed with a vent for the outlet of the air and moisture, friction means surrounding said pipe for holding the cabinet in any angular position, and a series of spaced screens for the support of the articles to be dried arranged between said pipe and vent.

1,459,930. TOOL RACK. ALBERT J. RIEHLE, Cincinnati, Ohio. Filed Mar. 2, 1922. Serial No. 540,523. 9 Claims. (Cl. 144—285.)

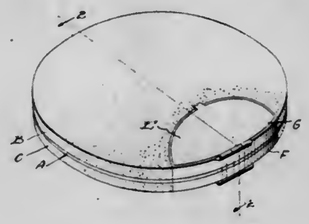
1. In a tool rack, a structure comprising a compartment having one upright side movable up and down

and provided with means whereby said side holds articles on its inner surface, to be enclosed in said compartment or exposed for access as said side is moved one



way or another, a drawer in said structure, and means whereby said drawer is locked when said side is moved to enclose said articles.

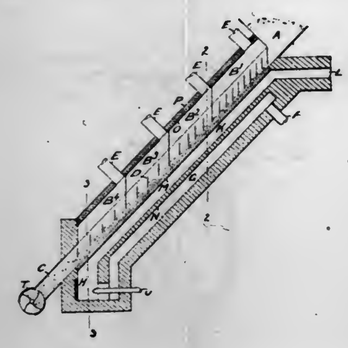
1,459,931. COMBINED ROUGE AND POWDER PUFF. WADSWORTH D. ROY, Birmingham, Mich. Filed Nov. 10, 1921. Serial No. 514,170. 6 Claims. (Cl. 132—82.)



1. In combination with a centrally disposed layer, a surface layer of fluffy fabric disposed on each face of said central layer, each of said surface layers having a correspondingly positioned cut away portion which leaves the adjacent portion of the central layer exposed, a pair of outwardly opening containers located in the cut-away portions of said fabric pieces on each side of said central layer, and resilient means for holding said containers in position relatively to one another and in detachable relation about the otherwise exposed portion of said central layer.

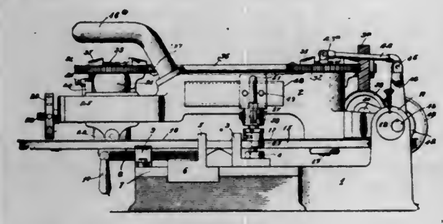
1,459,932. PROCESS OF HEAT-TREATMENT. EDGAR STANSFIELD, Ottawa, Ontario, Canada. Filed Apr. 3, 1920. Serial No. 371,136. 10 Claims. (Cl. 202—8.)

10. The process of heat treatment of carbonaceous material which consists in comminuting it, passing it, by gravity, in narrow streams, inclined at a greater angle to the horizontal than the angle of repose of the material, in the absence of air and with agitation, causing the layer to be increased in thickness and to be subjected from below to heat sufficient to remove volatile substances from it, which heat increases in tempera-



ture as the material moves downward, and controlling the time of treatment by means of the rate of withdrawal of the treated material.

1,459,933. BAND-SAW MACHINE. EMANUEL STAUDER, Rochester, N. Y., assignor to Huther Bros. Saw Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 25, 1921. Serial No. 464,158. 15 Claims. (Cl. 29—68.)



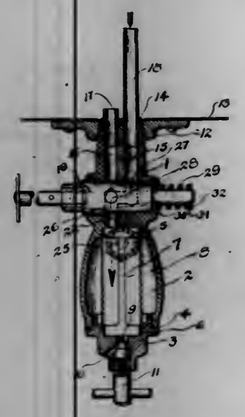
1. In a band saw machine, the combination with a work holder, of a pair of pulley wheels, a band saw running on said wheels, a drive shaft and a driving connection between the latter and each of the wheels

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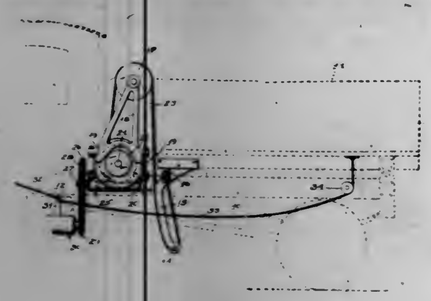
1,459,934. VALVE. EUGENE A. STILES, Kokomo, Ind., assignor to Kokomo Brass Works, Kokomo, Ind., a Corporation of Indiana. Filed May 16, 1921. Serial No. 469,934. 1 Claim. (Cl. 158—46.5.)

A valve comprising a body having a plug rotatably mounted transversely thereof, the body having at one end thereof two longitudinal passages arranged substantially parallel and spaced from each other, and having at the other end a chamber provided with a cap nut, the cap nut and the opposite end of the chamber having cooperating recesses to receive and hold in position therebetween a screen member, the cap nut having a discharge passage communicating with the lower end of the interior of the screen member and having a closure for the discharge opening, the chamber having an outlet tube ad-

jacent to its upper end and outside of the screw member, and the said plug having ports therein for establishing communication interchangeably between the two parallel passages and the interior of the screen member.



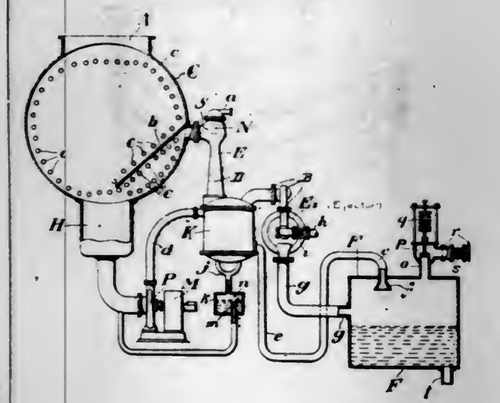
1,459,935. HOIST FOR VEHICLE BODIES. HENRY C. STRUCHEN, St. Paul, Minn. Filed July 12, 1920. Serial No. 395,524. 1 Claim. (Cl. 298—21.)



In a hoist for a tiltable vehicle body, a power take-off device operatively connected with the propelling mechanism of the vehicle, a pair of winding drums journaled on the vehicle frame, driving mechanism between said take-off device and drums adapted to hold the drums against rotation by the weight of the body and to turn said drums in either direction upon engagement of the take-off device with the vehicle propelling mechanism, arms depending from the body, a sheave at the lower extremity of each arm, a sheave near the upper end of each arm and above the frame of the vehicle, a cable having one end thereof attached to one drum and the other end thereof to the other drum, each reach of the cable passing beneath the lower sheave and over the upper sheave of one of said arms, as and for the purposes described.

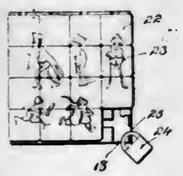
1,459,936. EJECTOR SYSTEM. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 17, 1922, Serial No. 553,573. Renewed May 9, 1923. 28 Claims. (Cl. 230—13.)

1. The combination with means forming a passage between regions having different pressures, of means for withdrawing elastic fluid from the region of lower pressure and discharging it at higher pressure comprising ejector apparatus having a suction chamber, a diffuser and nozzle structure, means for delivering elastic motive fluid to said nozzle structure to effect jet formation of said motive fluid for entraining thereby said first named



elastic fluid in said suction chamber, said suction chamber communicating with and receiving elastic fluid from said region of lower pressure, said suction chamber and diffuser included in said passage, and automatically operating valve structure preventing reverse flow of fluid through said passage.

1,459,937. COMBINED PUZZLE AND EDUCATIONAL DEVICE. HENRY C. TEIPEL, Hartford, Wis. Filed May 5, 1921. Serial No. 467,200. 2 Claims. (Cl. 46—41.)

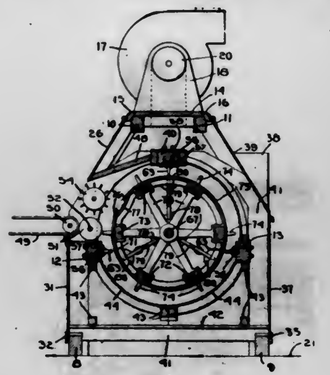


1. A device of the character described comprising a strip of metal folded on itself so as to form transverse channels and T-shaped portions between the channels, longitudinal slots being cut to connect the transverse channels and side strips secured to the sides of the first named strip after it has been folded so as to form closures for the transverse channels.

1,459,938. CONE DUSTER. CHARLES P. R. THIEL, North Andover, Mass., assignor to Davis & Furber Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed July 20, 1922. Serial No. 576,323. 13 Claims. (Cl. 19—90.)

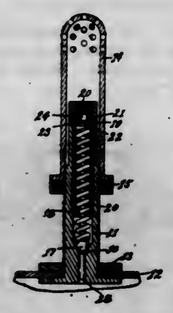
11. A cone duster comprising a cabinet, a reticulated cage mounted in the cabinet, a feed opening through the cabinet wall and cage, a discharge opening through the cabinet wall and cage, a beater mechanism within the cage, a continuous space surrounding the cage between

it and the cabinet, and a suction fan connected to the said space whereby, as the material is fed through the



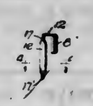
cage and beaten, the heavier dirt is discharged on the bottom of the cabinet and the lighter dust is sucked out from all parts of the cabinet by the fan.

1,459,939. BLOW-OFF VALVE FOR PNEUMATIC TIRES. ALFRED H. UATUMMS, Minneapolis, Minn. Filed Apr. 10, 1922. Serial No. 551,967. 1 Claim. (Cl. 137—53.)



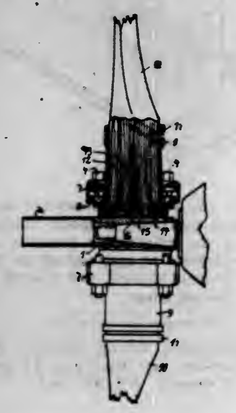
A valve of the character described having a spring adapted to yieldingly keep the same closed, an adjusting member adapted to regulate the tension of the valve spring and a locking member adapted to lock the adjusting member, said members being threaded within the valve, said adjusting member having a transverse groove in its upper face and said locking member having a transverse groove in its upper face and said locking member having a transverse slot through which a tool may be dropped to engage said channel.

1,459,940. COLLAR BUTTON. ANDREW VANCSO, Chicago, Ill. Filed Sept. 8, 1922. Serial No. 586,835. 5 Claims. (Cl. 24—101.)



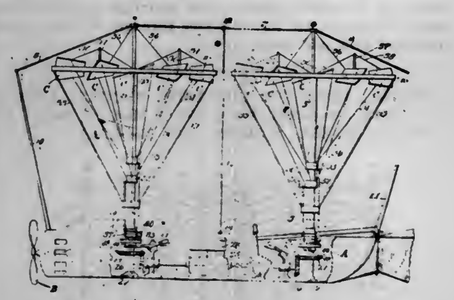
1. A collar button of integral construction comprising a flat collar button hole and shirt button hole engaging portion, a shirt collar engaging portion curved throughout its length and attached at one of its edges to an adjacent edge of the first-mentioned portion, and an elongated collar engaging portion tubular in cross-section and attached at one end to said flat portion with the free end of said collar engaging portion flattened and said end turned outwardly away from the shirt collar engaging portion.

1,459,941. ADJUSTABLE PROPELLER NAVE. ERWIN WESNIGK, Berlin, Germany. Filed Aug. 17, 1921. Serial No. 493,122. 3 Claims. (Cl. 170—162.)



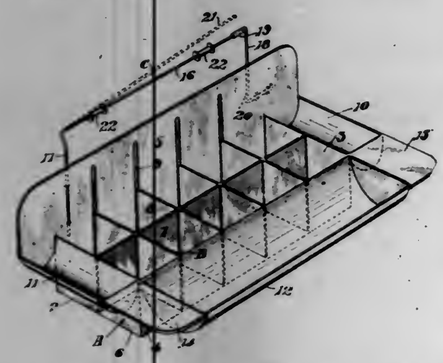
1. In an adjustable aerial propeller, in combination, a shaft; a nave comprising a body adapted to be fixed upon said shaft; hollow blade shank sleeves for the blades, provided with outwardly directed flanges, and a thrust ball bearing cooperating with the outer face of each of said flanges and fastened to said nave body, each of said thrust bearings being so large in diameter as to include the resultant of the centrifugal force and air thrust acting upon the blade and to be able without the aid of additional bearings to hold the blade in the manner of a turntable.

1,459,942. AIRPLANE. JESSE M. ARROWOOD, Valparaiso, Ind. Filed Apr. 9, 1920. Serial No. 372,422. 10 Claims. (Cl. 244—15.)



1. In a flying machine, a hull, a propeller therefor, a rotatable mast journaled in and arising from the hull, a circular plane mounted on said mast, an outer series of equi-distant vanes, and an inner series of equi-distant vanes the axes of which extend radially from said mast, devices for simultaneously tilting said vanes, and means for rotating said propeller.

1,459,943. SUTURE BOX. ETHEL M. BAILEY, Yreka, Calif. Filed June 21, 1922. Serial No. 569,783. 4 Claims. (Cl. 206—16.)



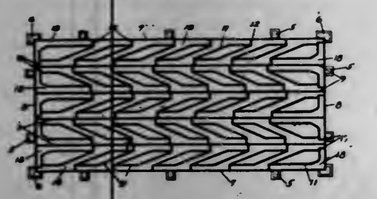
1. A device of the character described comprising a rectangular shaped container, a spacer disposed in the container dividing the same into a plurality of compartments, a trough disposed at each end of the container, a trough disposed in front thereof, and a spool support on the rear side of the container.

1,459,944. TELESCOPE RIFLE SIGHT. WARREN S. BELDING, Philipsburg, Pa. Filed Jan. 18, 1922. Serial No. 530,060. 2 Claims. (Cl. 33—50.)



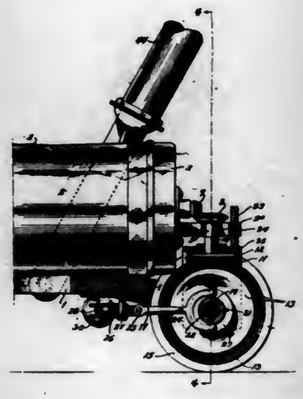
1. In a telescope rifle sight the combination of a base bar, a plate, a rear sight band, and telescope holders, the base bar being pivoted to the plate and the plate adapted to interlocking engagement with the rear sight band and having at either end a part adapted to coact with the telescope holders, a V-shaped block on the underside of the base bar adapted to securely engage with the cartridge receiver, the cartridge receiver itself and a thumb screw which passes through the bar and is threaded into said plate.

1,459,945. MOLD FOR CONCRETE BLOCKS. EMIL C. BONIGER, Davenport, Iowa. Filed Mar. 21, 1921. Serial No. 453,885. 2 Claims. (Cl. 25—121.)



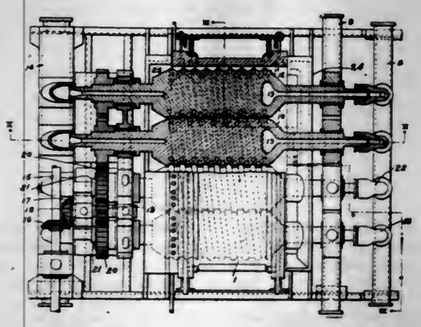
1. A device of the class described, comprising a frame; and a series of substantially diamond-shaped forms arranged in said frame in spaced-apart overlapping relation, and provided at their ends with oppositely disposed extensions adapted for engagement with said frame.

1,459,946. VACUUM CLEANER. VINCENT CAMARATA, JOHN CODRICK, and RAYMOND P. DANLEY, Philadelphia, Pa. Filed Nov. 20, 1922. Serial No. 602,173. 8 Claims. (Cl. 15—18.)



1. A vacuum cleaner comprising a frame; a motor; a nozzle; propelling wheels adjustably mounted on the frame and operatively connected to the motor; reversing means operatively connected to the motor and propelling wheels, and means for controlling the propelling wheels and reversing means at the will of the operator.

1,459,947. COOLING AND FRAGMENTING APPARATUS AND METHOD. HENRY C. CRONEMEYER, Beaver, Pa. Filed July 10, 1922. Serial No. 573,880. 3 Claims. (Cl. 83—91.)

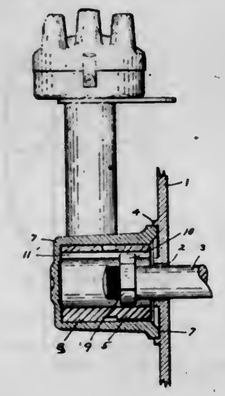


1. Solidifying and fragmenting apparatus including a casing and two pairs of rollers mounted on parallel axes lying within a single plane and arranged within the casing, the rollers of each pair rotatable in the same direction and the direction of rotation as between the pairs being opposite, said rollers being provided with spiral surface corrugations, the corrugations of the two rollers of each pair being in register, and said rollers being spaced at intervals from the inner wall of the casing and from one another.

1,459,948. GEAR DRIVE. JAMES KENDALL DELANO, Yonkers, N. Y. Filed Aug. 1, 1922. Serial No. 579,040. 1 Claim. (Cl. 74—7.)

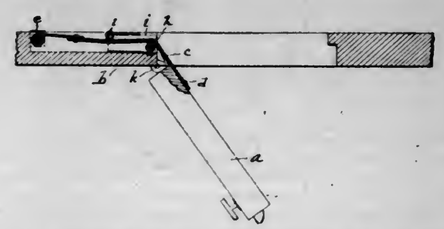
In a universal drive for gearing, in combination with a gear cover formed with a locating boss and a concentric bole, and a drive shaft extending through said cover

and eccentric with said boss, of a gear housing on said cover and provided with a bearing concentric with said boss, a gear rotatably mounted in said bearing and formed with a bore and keyway therein, a drive nut adapted to be secured upon the end of the shaft and of less diameter



than the diameter of the bore of said gear, a lug formed on said nut of less width than the width of said keyway, said lug adapted to engage said keyway and drive said gear, and having a limited free movement within said gear and said keyway to compensate for the eccentricity of said shaft with respect to said gear.

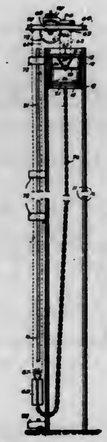
1,459,949. CHECKSTRAP FOR DOORS. WALTER P. DORL, Detroit, Mich., assignor to Door Control Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 6, 1920. Serial No. 415,135. 5 Claims. (Cl. 16—78.)



1. In combination with a swinging door and the jamb to which the same is hinged, a flexible strap one end of which is secured to the door, the other end of which is secured to a spindle so as to be wound therearound when the spindle is rotated in one direction, such spindle carried by the jamb and mounted for rotation, spring means encircling such spindle and so connected therewith and with the jamb as to maintain the spindle under rotary tension tending to revolve the same in a direction to retract the strap when the door is closed, the tension of such spring, however, being insufficient to retract the strap and close the door.

1,459,950. GRAVITY DROP. JOHN DOWNIE, Seattle, Wash. Filed Mar. 7, 1922. Serial No. 541,735. 7 Claims. (Cl. 187—28.)

5. A gravity drop of the class described including a carriage, means for guiding said carriage for vertical movement, a shaft journalled in the upper portion of said carriage, a brake drum secured on said shaft, a pulley secured on said shaft, flexible carriage supporting means passing around said pulley and arranged to rotate said brake drum as said carriage moves up and down, brake shoes for said brake drum, a cradle movable on said carriage, releasable means for normally supporting said cradle and means connecting said cradle with said brake



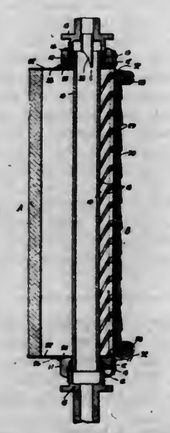
shoes and arranged to apply said brake shoes to said brake drum when said cradle supporting means is moved to release said cradle.

1,459,951. DENTAL BRIDGE. HIERONYMUS EISELE, Omaha, Nebr. Filed Aug. 7, 1922. Serial No. 580,077. 2 Claims. (Cl. 32—12.)



1. In means for removably connecting the saddle of a dental bridge with a pair of natural teeth disposed adjacent to its ends, bands connecting the natural teeth with the saddle each band having a holder of loop-form for engaging a natural tooth and having a curvature conforming to the shape of the gum-tissue at the inner side of a natural tooth and being of resilient material for yieldingly resisting stresses directed to the bridge.

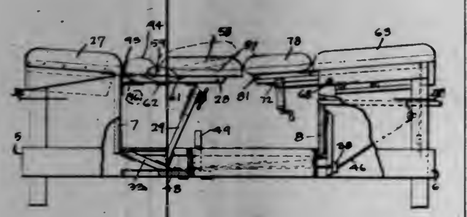
1,459,952. SAFETY GAUGE GLASS. GEORGE ERNST, Newark, N. J. Filed Dec. 7, 1920. Serial No. 428,964. 5 Claims. (Cl. 73—54.)



1. The herein described indicator bar for gauge glasses, the same comprising a straight bar having a flat surface

with parallel edges, and a sheet material member fitted over said flat surface and having edge flanges embracing the edges of the bar, said member having color markings on its inner surface.

1,459,953. OSTEOPATHIC TABLE. ALBERT M. FREISE, San Francisco, Calif. Filed Feb. 21, 1920. Serial No. 360,429. 9 Claims. (Cl. 128—72.)



1. In a chiropractic table such as described, in combination with a head and dorsal portion, of a foot portion having a stationary top; a slide guided within said stationary top; an extension on said slide hingedly connected thereto; and means for controlling and limiting the movement of said slide relative to said dorsal portion.

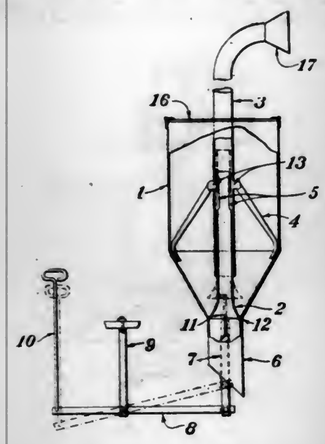
1,459,954. SUPPORT FOR VEHICLES. JOHN EDWARD HANCOCK, Charleston, S. C. Filed July 21, 1921. Serial No. 486,422. 9 Claims. (Cl. 254—88.)



1. In an apparatus of the character described, a base including sills having inclines presenting runways, blocks at the ends of said sills constituting supports, a cross piece, roller shafts journaled in said cross piece and said sills, rollers on said shafts, a cradle associated with said base and including side bars mounted on the rollers of the base, end cross bars and an intermediate cross bar, one of said end cross bars and said intermediate cross bar having guide openings, a swinging guide arranged on the cross piece of the base and cooperating with the guide openings of said cross bars, wheels carried by the side bars of the cradle, a pair of pedestals at one end of the cradle including inclines, supports and stops, latch mechanism associated with said pedestals and including pivoted latches, trips comprising pivoted trip bars, and a second pair of pedestals at the opposite ends of the cradle.

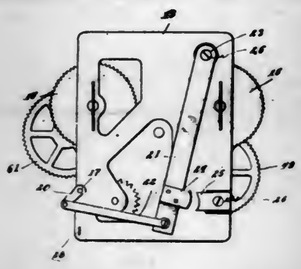
1,459,955. POWDER SPRAYER. ELMER JOHNSON, Washington, D. C.; dedicated, by mesne assignments, to the People of the United States. Filed Feb. 28, 1923. Serial No. 621,876. 1 Claim. (Cl. 43—147.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

In a dusting machine, a hopper containing insecticide, a tube leading from said hopper, pipes leading inside said hopper from said tube, a funnel at the top of said tube for introducing air into said tube and said pipes, an



outlet in said hopper, and a valve controlling said outlet for distributing insecticide from the hopper to be mixed with the air introduced into said tube.

1,459,956. ELECTRIC SWITCH. BEN MAZZA, Grand Junction, Colo. Filed Apr. 25, 1919. Serial No. 292,588. 2 Claims. (Cl. 200—40.)

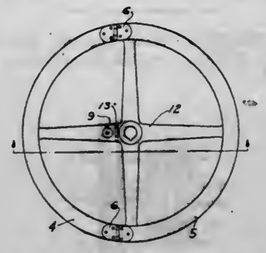


1. In a time control switch, the combination with a clock mechanism including an auxiliary motor, of a switch including a stationary contact and a movable contact, means operated by the clock mechanism for alternately moving the movable contact in opposite directions, a rotatable element included in such clock operated means, means located in the path of said rotatable element for stopping the movement of the movable contact when the switch reaches a closed position, means including a transversely movable bar also located in the path of the rotatable element for stopping the movement of said movable contact when the switch is opened and means whereby the switch operating mechanism may be controlled to release the rotatable element at predetermined times.

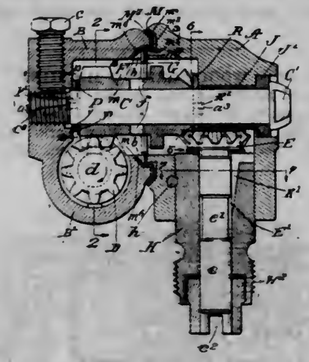
1,459,957. FOLDING STEERING WHEEL. FREDRICK B. MERRITT, Sacramento, Calif. Filed Jan. 10, 1922. Serial No. 528,350. 1 Claim. (Cl. 74—33.)

A steering wheel comprising fixed and movable rim segments, a hub provided with the former, the segments being split on a line to one side of the hub, a spoke on the

movable segment at right angles to the split line and extending to the hub, and hinges between said rim segments and between the said spoke and hub arranged to enable the movable segment being folded up onto the fixed segment.



1,459,958. SWIVEL-GEAR JOINT AND HOUSING. JOHN K. OLSEN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 30, 1922. Serial No. 548,238. 9 Claims. (Cl. 74—101.)



9. A swivel gear joint comprising two gear housing members, each adapted for housing a pair of intermeshing gears constituting a continuous train and adapted for seating upon each other at a plane transverse to the two intermediate gears of said train, the housing member having the outleading driven shaft of the train comprising two parts, one of which is a sleeve bearing for said outleading driven shaft, said sleeve having its exterior diameter at least as great as that of the gear on said outleading shaft whereby said outleading shaft with its gear mounted in said sleeve may be inserted bodily into the other part of said housing member, and means for keying said inserted sleeve in place therein.

1,459,959. PROCESS FOR THE ACCELERATION OF PROPIONIC FERMENTATION. JAMES M. SHERMAN, Washington, D. C., and ROSCOE H. SHAW, Chicago, Ill.; dedicated, by mesne assignments, to the People of the United States. Filed Aug. 26, 1922. Serial No. 584,541. 15 Claims. (Cl. 260—120.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The use of *Lactobacillus casei* to increase the rate of production of propionates from carbohydrates by action of organisms of the type of *Bacterium acidi propionici*.

2. The use of *Proteus vulgaris* to increase the rate of production of propionates from carbohydrates by action of organisms of the type of *Bacterium acidi propionici*.

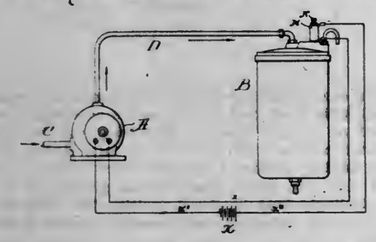
3. The use of *Bacterium viscosus* to increase the rate of production of propionates from carbohydrates by action of organisms of the type of *Bacterium acidi propionici*.

4. The use of *Lactobacillus casei* to increase the rate of production of propionates from salts of organic acids by action of organisms of the type of *Bacterium acidi propionici*.

5. The use of *Proteus vulgaris* to increase the rate of production of propionates from salts of organic acids by action of organisms of the type of *Bacterium acidi propionici*.

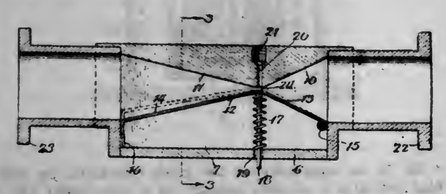
12. The use of organisms which produce lactic acid from carbohydrates, the salts of which acid are also acted upon by the propionic organism to yield propionates and acetates, to increase the rate of production of propionates from carbohydrates by action of organisms of the type of *Bacterium acidi propionici*.

1,459,960. ELECTRIC PUMP-OPERATED FUEL-FEEDING DEVICE. WALTER VAN GUILDER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 8, 1922. Serial No. 550,600. 4 Claims. (Cl. 158—36.)



1. In a combination for the purpose of supplying fuel by gravity to the carbureter of an internal combustion engine from a fuel source at a lower level, an electrically operated pump having its intake connected with said fuel source; a fuel receptacle at a higher lever with which the discharge of the pump is connected, said receptacle having above the liquid-containing space thereof two inlet ports, and means for opening them alternately, one at a high level and the other at a low level of liquid in the receptacle; an air inlet passage leading to the port which is opened at high level; a circuit in which the pump motor is energized extending in part in said passage, and having a gap therein, and means for opening and closing said gap which is moved for opening said gap by the movement for opening said last mentioned port.

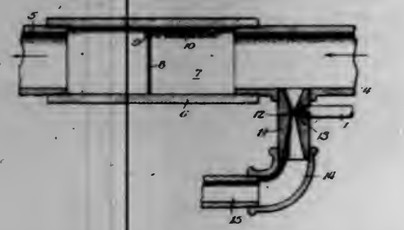
1,459,961. VARIABLE VENTURI FOR SUCTION FEED SYSTEMS. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 14, 1922. Serial No. 552,806. 10 Claims. (Cl. 158—36.)



1. In combination with an internal combustion engine having an exhaust passage and liquid fuel feeding means employing suction for moving the fuel for distribution to the engine, a suction producing device comprising a

Venturi tube constituting a part of the engine exhaust passage, and having an inlet leading to its constricted portion from the fuel feeding means for producing a suction effect thereon, said Venturi tube being variable in shape for regulating such suction effect.

1,459,962. EXHAUST-PRESSURE GOVERNOR FOR SUCTION-FEED SYSTEMS. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 14, 1922. Serial No. 552,807. 4 Claims. (Cl. 158—36.)



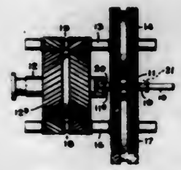
1. The combination of an internal combustion engine provided with liquid fuel feeding means operated by suction and an exhaust passage comprising two branches, one branch having a venturi with an inlet leading from the fuel feeding means to the constricted portion of the venturi, and the other branch being provided with a valve yieldingly held in closed position but adapted to open to relieve excessive back pressure in the exhaust passage.

1,459,963. MECHANICAL MOVEMENT. JAMES ALLINGHAM, Chicago, Ill. Filed Nov. 1, 1918, Serial No. 260,664. Renewed Sept. 4, 1920. Serial No. 408,307. 12 Claims. (Cl. 64—100.)



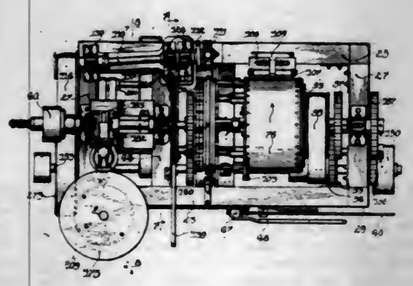
12. In an apparatus of the class described, the combination with a suitable support, of a drive shaft and a transmission shaft journaled thereon, a drive wheel on the drive shaft, a transmission wheel on the transmission shaft, a piston carrying cylinder mounted on the drive wheel near its periphery, means connecting the piston of said cylinder with the periphery of the transmission wheel, and elastic fluid pressure adapted for entrance into the cylinder for coaction with the ends of said pistons.

1,459,964. GEARING. KARL ALQUIST, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,859. 5 Claims. (Cl. 74—7.)



1. In a gearing, a high speed pinion comprising a right hand helical pinion member and a left hand pinion member, separate quill shafts for said pinion members, a length of shaft extending through said quill shafts and connected at spaced points thereto whereby the pinion members can adjust themselves relatively to each other, a low speed gear wheel means, and intermediate speed gear wheel means for transmitting power between said pinion members and said low speed gear wheel means.

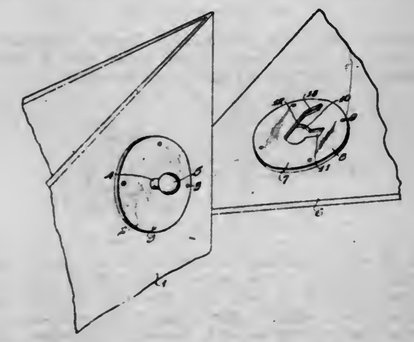
1,459,965. WOODWORKING MACHINE. CARL F. ANDERSON, Brookfield, and LESTER W. KNAPP, Berwyn, Ill., assignors to Conlon Electric Washer Company, Cicero, Ill., a Corporation of New York. Filed Aug. 27, 1920. Serial No. 406,388. 28 Claims. (Cl. 144—2.)



1. In a machine of the class described, the combination of a rotary cutter knife for performing a cutting operation on a head blank, a head clamp adapted to retain said head blank during the cutting operation and to present by relative movement the entire periphery of said head blank to the knife, and boring mechanism associated in timed relation with said head clamp for boring a plurality of holes about the face of said head blank during the cutting operation.

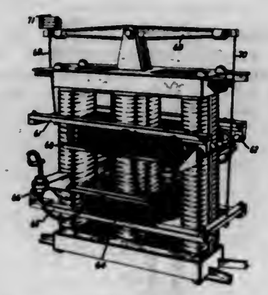
1,459,966. GARMENT FASTENER. ROY H. ANDERSON, St. James, Minn. Filed Oct. 14, 1920. Serial No. 416,908. 1 Claim. (Cl. 24—224.)

A garment fastener comprising a pair of complementary disks, one of said disks having a centrally located stud having an enlarged spherical head, the other disk being provided with a central opening having communication with a rectangular slot, said opening being sufficiently large to receive the head of said stud, a resilient spring formed on the edge of the central opening at a point opposite the rectangular slot, and a finger angularly disposed on the end of the resilient spring so that same is positioned directly over the rectangular slot



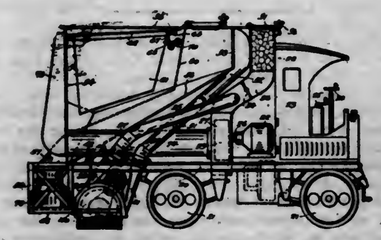
and engages the spherical head for holding the stud in the slot when the complementary fastening members are assembled.

1,459,967. REGULATING DEVICE. LYMAN ARNOLD, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 19, 1917. Serial No. 202,758. 14 Claims. (Cl. 171—119.)



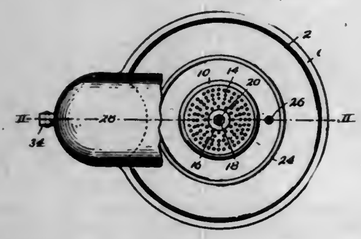
9. In a constant-current transformer having relatively movable coils, mounting means for the relatively movable coils constraining their pivotal movement in parallel planes.

1,459,968. VACUUM CLEANER. LOUIS BAILLY, Columbus, Ohio, assignor to The Ohio Municipal Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,019. 1 Claim. (Cl. 15—14.)



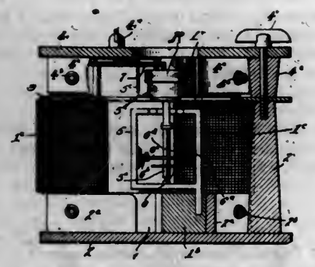
In a vacuum street sweeper having a rotating brush, a hollow saddle over the brush, suction and blast pipes, suction and blast nozzles connected to the said saddle and flexibly joined to the suction and blast pipes, a wheeled frame, and manually actuated connections on the frame for adjusting the saddle and its nozzles vertically with respect to the brush, including a rod carried by the said saddle and its nozzles, bell cranks mounted on the frame and engaging the rod, and a manually actuated winding shaft having flexible connections secured to the bell cranks.

1,459,969. OIL BURNER. JAMES K. BEAUCHAMP, Kansas City, Mo. Filed Apr. 15, 1922. Serial No. 553,210. 2 Claims. (Cl. 158—91.)



1. An oil burner consisting of a combustion chamber, a generator chamber formed integral with the bottom of said combustion chamber, a perforated cap forming the upper portion of said generator chamber, means for supplying the combustion chamber with oil, and an air intake tube terminating above said generator chamber.

1,459,970. METHOD OF AND APPARATUS FOR TESTING MAGNETIZABLE OBJECTS. CHARLES W. BURROWS, Washington, D. C., assignor of one-fourth to Rudolph J. Wig, Washington, D. C. Filed July 25, 1917. Serial No. 182,716. 7 Claims. (Cl. 175—183.)

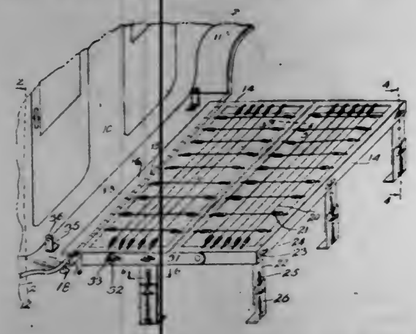


1. The herein described method of ascertaining the hardness, tensile strength, homogeneity, presence of flaws and previous heat treatment, of magnetizable objects, consisting in subjecting such object to the action of a relatively rotating or whirling magnetic field, yieldingly restraining the relative deflection of said objects and field, and determining the physical properties of the object by the extent of the magnetic interaction or strength of the torque developed between the object and the field.

1,459,971. PROCESS OF PRODUCING ESTERS. CARNIE B. CARTER, Pittsburgh, Pa., and ALBERT E. COXE, Chicago, Ill., assignors, by mesne assignments, to S. Karpen & Bros., a Corporation of West Virginia. Filed Nov. 13, 1920. Serial No. 423,870. 11 Claims. (Cl. 260—106.)

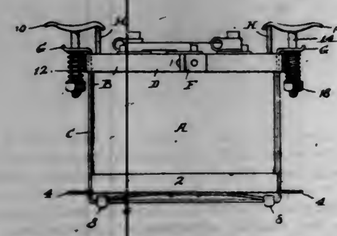
1. The method of producing an ester which comprises causing a reaction, at elevated temperature, between a halogen derivative of natural gas and a metallic salt of an acid, in the presence of a solvent comprising alcohol.

1,459,972. COMBINED BED AND LUGGAGE CARRIER. FERDINAND C. CLAWSON, Des Moines, and GEORGE GRANT KIBBEE, Forest City, Iowa. Filed Jan. 16, 1922. Serial No. 529,624. 1 Claim. (Cl. 5—119.)



In a device of the class described, a bed and luggage carrier structure designed for use with a vehicle having a running board, comprising first and second frames, each having means forming a support for bed clothing, means for hinging the first frame at one edge to the outer edge of the running board to move from horizontal to vertical position, means for hinging the outer edge of said first frame to the edge of the second frame to permit the frames to stand in aligned horizontal position or in vertical, folded position with the second frame outside the first frame adjacent thereto, braces pivoted to the ends of the second frame, means for securing said braces in overlapped positions to the ends of the first frame when the frames are extended, and means for securing said braces to the vehicle in positions inclined inwardly and downwardly from the frames for rigidly supporting the frames in vertical position and forming end members of a luggage carrier.

1,459,973. BATTERY SHOCK ABSORBER. EDWARD J. COLGAN, Kansas City, Mo. Filed Feb. 10, 1921. Serial No. 443,978. 2 Claims. (Cl. 180—68.5.)



1. In combination with a storage battery and its support, a tray in which the battery is set, and a bow spring interposed between said tray and the battery support and provided with lugs to prevent its displacement relative to the support.

1,459,974. ROLLER BEARING. FRANK ARCHELAUS CRITZ, Jr., West Point, Miss. Filed Nov. 4, 1921. Serial No. 512,779. 3 Claims. (Cl. 64—62.)



2. In roller bearings, the combination of rollers each having a collar in the center with reduced adjacent bearing surfaces at each side, trunnions at each end of the roller, engaging cage rings having openings receiving said trunnions and rotatably mounting said rollers, the collar and adjacent reduced bearing surfaces of the roller having a cone shape, and engaging corresponding beveled surfaces of inner and outer sleeves, the diameters of the reduced adjacent bearings, at the circular lines where said bearings join said collar, being to the diameters of the collar through said circular lines, respectively, as the diameters of the inner sleeve at said circular lines of juncture are to the diameters of the inner surface of the outer sleeve, at the points of contact with each edge of said collar, respectively.

1,459,975. NOZZLE FOR THE DELIVERY OF WATER OR OTHER LIQUID UNDER PRESSURE. CLIFFORD ROGER FLEMING-WILLIAMS, Lake Windermere, England. Filed Sept. 1, 1921. Serial No. 497,778. 7 Claims. (Cl. 299—107.)

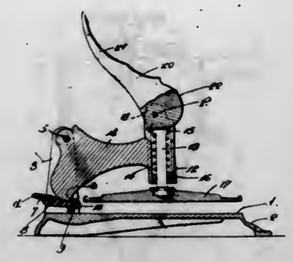


1. A nozzle of the kind herein referred to and comprising a tubular portion having a restricted orifice at one end, and a bulbous chamber of larger cross sectional dimensions than said tubular portion, said chamber communicating with said tubular portion and having a relatively large delivery orifice in axial alignment with said tubular portion substantially as set forth.

1,459,976. TORTILLA PRESS. ALFRED C. GORE and CHARLES L. GORE, San Antonio, Tex. Filed May 17, 1921. Serial No. 470,452. 2 Claims. (Cl. 107—15.)

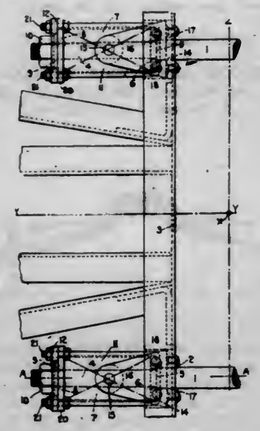
1. An apparatus of the character described comprising a base plate, a pressure plate, a supporting arm pivotally mounted above the base plate, means to swing the supporting arm, a sleeve carried by the supporting arm and adapted to be disposed vertically above the said base plate or swung to a position above and to one side of the base plate when the said supporting arm is swung on its pivot, latch means to maintain the supporting arm in fixed position when the said sleeve is disposed above the base plate, an operating arm pivotally mounted above the sleeve and equipped with a cam member, means for connecting the sleeve with the

said pressure plate, said means being adapted to be engaged by the said cam member whereby a pressure



may be exerted on the pressure plate when the said operating arm is swung to move the said cam across the said means.

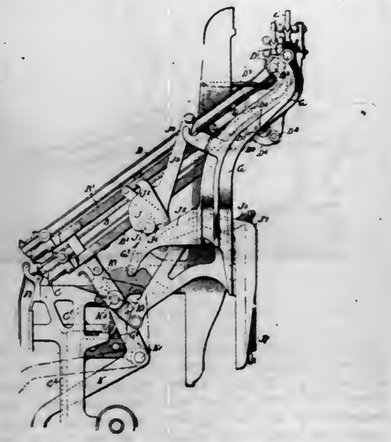
1,459,977. RAILWAY AND TRAMWAY VEHICLE. HERBERT NIGEL GRESLEY, Doncaster, England, assignor to The Leeds Forge Company, Limited, Leeds, England. Filed Oct. 23, 1922. Serial No. 596,264. 7 Claims. (Cl. 105—4.)



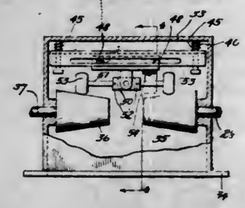
1. In a coupling arrangement for railway and tramway vehicles of the kind in which the adjacent ends of two vehicles are supported by one common bogie, spring control gear fitted to the vehicle headstocks and adapted to steady the vehicles when traveling on curved portions of the track.

1,459,978. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 16, 1922. Serial No. 568,711. 19 Claims. (Cl. 199—16.)

1. In a typographical machine, the combination of two series of matrix magazines arranged side by side or in tandem, distributing mechanism cooperating continuously with all the magazines of both series, assembling mechanism common to the two series, and supporting and shifting means whereby any selected magazine of either series may be moved into operative relation to the assembling mechanism without disturbing the cooperative relation existing between the magazines and the distributing mechanism.



1,459,979. WIND-PROPELLED SHIP. FRANK OTTO KOHN, Hudson, Iowa. Filed Jan. 11, 1923. Serial No. 611,914. 2 Claims. (Cl. 115—34.)

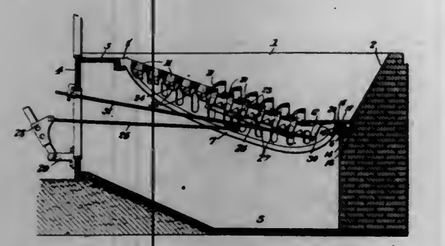


2. In a ship propulsion means, a propeller shaft, a transmission shaft aligned therewith and separated therefrom, conical pulleys at the ends of said shafts, the peripheries of said pulleys converging toward each other, a casing journalling the pulley ends of said shafts, a floating platform having longitudinal slots therein, a second platform, pintles in said second platform slidable in the slots of said first-named platform, ears on the second-named platform, a sleeve trunnioned between said ears, a spindle rotatably mounted in said sleeve, spherical-surfaced rollers rigidly mounted on the ends of said spindle and contacting with the conical pulleys, said rollers being adapted to shift up on one pulley and down on the other to decrease or increase the speed of the propeller shaft with respect to the transmission shaft, and a lever arm adapted to shift the spindle rollers.

1,459,980. STOKING GRATE. WILLARD B. MCBURNEY, Atlanta, Ga. Filed June 6, 1921. Serial No. 475,345. 9 Claims. (Cl. 110—39.)

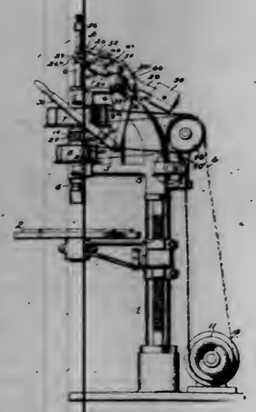
4. In a stoking grate, a grate bar comprising a grate portion, ribs extending longitudinally of the bar, plates on the opposite ends of the ribs and grate portion, an apron extending from the lower edge of one of the

ribs, and a shaking arm displaceably seated at one end between the ends of said apron and ribs and against the adjacent end plate.



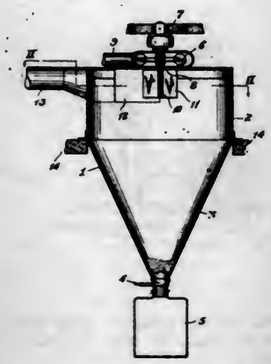
8. In a stoking grate, a unitary section comprising opposite supporting beams rearwardly declined and having bearings in their upper edges, spacing members between and interlocking with the upper and lower ends respectively of the opposite supporting beams, a succession of grate bars mounted between said beams and having end trunnions journaled in said bearings, an anchoring plate supporting the lower end of the grate section, said anchoring plate having openings therein and projections on the lower ends of the supporting beams seated in said openings.

1,459,981. TAPPING MACHINE. EDWARD J. MCCLELLAN, New York, N. Y., assignor to The Garvin Machine Company, a Corporation of New York. Filed Apr. 23, 1921. Serial No. 463,988. 15 Claims. (Cl. 10—136.)



1. In a tapping machine, the combination of a tapping spindle, driving mechanism for rotating the spindle respectively in opposite directions, an actuating-lever operable to initiate the rotation of the spindle by the driving mechanism for the tapping operation, automatic means for causing the reverse rotation of the spindle by the driving mechanism on the completion of the tapping operation, and means operated solely by said actuating lever for causing the reverse rotation of the spindle independantly of the automatic reverse.

1,459,982. METHOD OF AND APPARATUS FOR CLEANING GASES. ARTHUR G. MCKEE, Cleveland, Ohio. Filed Mar. 29, 1920. Serial No. 369,563. 17 Claims. (Cl. 153—77.)



1. The method of cleaning air or other gas which consists of imparting a primary rotating motion to a column of the gas, constantly removing the particles of foreign matter from the zone of action of the rotating column rejected by centrifugal force, imparting to the central portion of the rotating column a secondary rotating motion whereby all of the outgoing gases are subjected to said secondary rotating motion, and withdrawing cleaned gas away from the center of said rotating column.

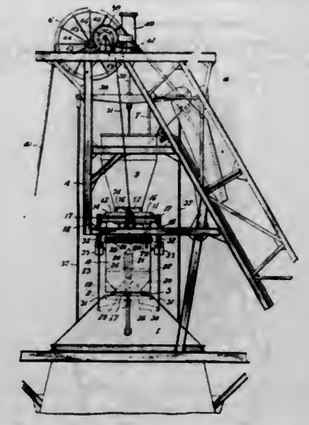
1,459,983. SHOCK-ABSORBING SPRING. EDWARD MATTHEWS, Denver, Colo. Filed Oct. 17, 1921. Serial No. 508,097. 2 Claims. (Cl. 267—45.)



1. In combination a supporting member, a spring perch secured to the same, a main spring, a shackle connecting the end of the spring to the perch, a member clamped to said perch, a bolt non-rotatably connected with said member, a helical spring surrounding said bolt, a plate provided with an opening slidably connected with said bolt and resting on said spring, an auxiliary spring centrally connected with the first mentioned spring, an opening in the end of said auxiliary spring, said opening engaging the bolt, and a nut cooperating with said bolt whereby the end of the auxiliary spring may be adjusted with relation to the main spring.

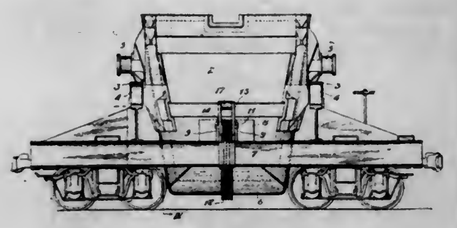
1,459,984. FURNACE-CHARGING APPARATUS. ALFRED C. NELSON, Lakewood, Ohio, assignor to The William B. Pollock Company, Youngstown, Ohio, a Corporation of Ohio. Filed Dec. 4, 1920. Serial No. 428,247. 10 Claims. (Cl. 214—19.)

1. In furnace charging apparatus, a furnace having a top-opening and a closure therefor, a rotatable, traveling car adapted to be moved back and forth over said furnace, said car having a bottom-opening adapted to register with said top-opening and a closure for said bottom-opening, means for loading material into said car when it is at one side of said furnace, means for moving said car back and forth across said furnace,



means for rotating said car, and means for opening and closing said closures when they are in registering position.

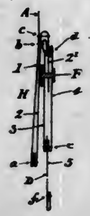
1,459,985. LADLE-TILTING MECHANISM. ALFRED C. NELSON, Lakewood, Ohio, assignor to The William B. Pollock Company, Youngstown, Ohio, a Corporation of Ohio. Filed Aug. 6, 1921. Serial No. 490,248. 16 Claims. (Cl. 105—273.)



5. The combination of a ladle, brackets secured to opposite sides of said ladle, a flexible member loosely encompassing the bottom of said ladle, having its ends supported by said brackets, one of said ends being detachably supported by one of said brackets and provided with an eye adapted to be engaged by a crane hook, said flexible member being constructed and supported to present said eye outwardly of the side of said ladle.

1,459,986. UNION SUIT. WALTER L. PENDERGRASS, Mobile, Ala., assignor to Sol Kahn and Leo Kahn, Mobile, Ala., doing business as Kahn Manufacturing Company. Filed June 8, 1922. Serial No. 566,720. 1 Claim. (Cl. 2—144.)

A union garment comprising a shirt and trousers joined, a strip of material attached to the inner face of the shirt at the lower rear edge thereof and having a free edge at a distance from the shirt edge, a waist band attached to the free edge of said strip and having fastening means, an apron attached to the lower edge of the waist band, the trousers being split at the sides from the waist band downwardly to provide a drop seat,



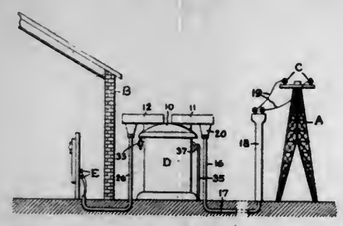
and cooperative fastening means on the upper part of the drop seat, the fastening means being hidden by the lower edge of the shirt.

1,459,987. METER BEARING. WILLARD E. PORTER, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Original application filed Feb. 26, 1917, Serial No. 151,060. Divided and this application filed Sept. 2, 1919. Serial No. 321,032. 3 Claims. (Cl. 64—25.)



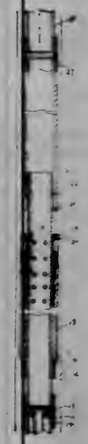
1. In a meter, in combination, a plug having an enlarged head and a chamber in its opposite end, a metallic cup mounted in said chamber, a non-metallic bearing member adapted to support the movable element of said meter, mounted in said cup, a lubricant in said chamber, said cup having openings communicating with said chamber whereby said lubricant can reach the bearing surface of said member, and a cap covering said chamber and provided with an opening adapted to permit the entry of the movable element of the meter.

1,459,988. TRANSFORMER INSTALLATION. WILBUR A. PRESSEY, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,704. 1 Claim. (Cl. 175—361.)



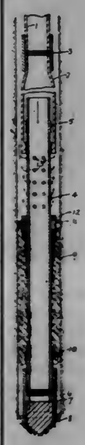
In a transformer installation, an outdoor high tension transformer enclosed in a grounded metal casing, metal connection compartments extending outwardly from said casing and having depending portions at their outer ends, conductors from underground to the high tension side of said transformer, other conductors from underground to the low tension side of said transformer, said conductors passing through openings in the depending portions of said connection compartments and being provided with connections within said compartments, and grounded metal protection enclosing the conductors between the ground and said compartments.

1,459,989. PROCESS OF AND APPARATUS FOR SETTING CASING AND SCREEN IN WELLS AND CEMENTING. WARREN B. REED, Morgan City, La., assignor of one-fourth to J. R. Suman, Houston, Tex., and one-fourth to E. A. Pharr, one-eighth to W. G. Reed, and one-eighth to Walter Hepler, all of Morgan City, La. Filed Mar. 30, 1922. Serial No. 548,068. 11 Claims. (Cl. 166—1.)



1. In the operation of completing a well, the process of introducing into the hole a casing, wash pipe and screen, washing the screen, setting the screen on the bottom, expanding a packing means above said screen, washing the outside of said casing above the packer, closing said screen from the interior of said casing, cementing the space about said casing above said packing means, lowering said casing onto said packer, washing the interior of said casing, opening said washpipe, washing said screen and removing said wash pipe.

1,459,990. PROCESS OF SETTING CASING AND CEMENTING THE SAME. WARREN B. REED, Morgan City, La. Filed May 8, 1922. Serial No. 559,243. 5 Claims. (Cl. 166—21.)



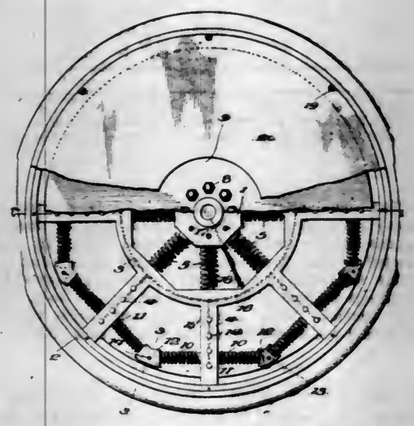
1. In the operation of setting and cementing casing in wells, the improvement consisting of setting the casing firmly on the bottom, closing the space outside the casing adjacent the bottom by a packing means, forcing cement downwardly through the casing into the space above said packing means, washing out the interior of the casing and allowing the cement to set.

1,459,991. SHIPPING CONTAINER. LUTHER E. ROOKS, Jackson, Tenn. Filed Feb. 25, 1922. Serial No. 539,126. 8 Claims. (Cl. 217—72.)



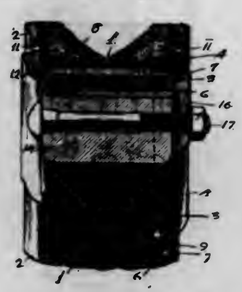
1. A shipping container comprising body sections to be assembled end to end, hoops surrounding the said sections adjacent their meeting ends and affording circumscribing shoulders, and a binding hoop for encompassing the said ends of the sections and constructed to fit over the first mentioned hoops and engage behind the shoulders provided by their edges.

1,459,992. RESILIENT WHEEL. JAMES W. ROUPRICH, Washington, D. C. Filed June 24, 1920. Serial No. 391,323. 5 Claims. (Cl. 152—28.)



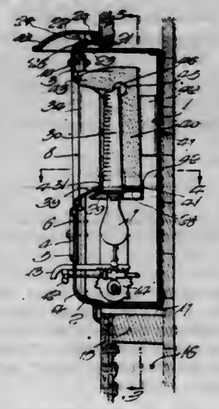
1. A wheel of the class described comprising a hub, an annular member floating with respect to said hub, said member comprising an inner and outer rim integrally connected, yielding means between said hub and inner rim, additional yielding means cooperating with the aforesaid yielding means to retain said annular member in position, side plates secured to said hub, the peripheries thereof extending to points immediately adjacent the inner periphery of said outer rim, permitting a clearance with respect to the latter and dust shields secured to the outer rim overlapping said side plate extending the points adjacent said hub.

1,459,993. DEMOUNTABLE RIM. WILLIAM RYAN, Paso Robles, Calif. Filed May 21, 1921. Serial No. 471,426. 1 Claim. (Cl. 301—35.)



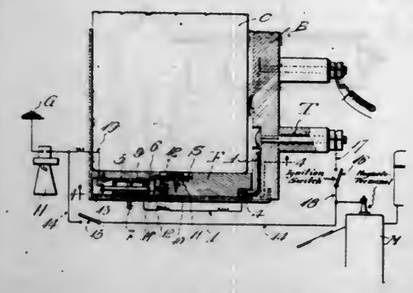
A demountable rim comprising a continuous rim having an annular flange on one side thereof and radially disposed lugs formed integral therewith on the opposite edge of said ring; and a member having an annular flange similar to the annular flange of the ring and provided with an inwardly projecting flange of a diameter adapted to fit within the ring, said inwardly projecting flange having slots formed in the edge thereof to engage the radially disposed lugs of the ring whereby said ring and inwardly disposed flange may be retained in overlapping relation with the edge of the ring abutting against the inner side of the annular flange to form an unbroken annular channel adapted to receive a tire.

1,459,994. GAS HEATER. HENRY H. SANFORD, Mansfield, Ohio. Filed May 29, 1922. Serial No. 564,466. 5 Claims. (Cl. 126—92.)



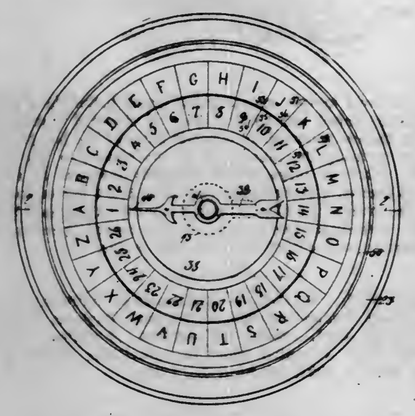
1. A heater comprising a casing having an opening in its front and provided with a horizontal support extending across its interior, a burner below said support, a fire back resting on said support and free to move upwardly therefrom, and a plurality of radiants resting on said support in front of said fire back, said fire back and radiants being relatively movable and being provided with co-acting means for securing the radiants in place when the fire back is lowered and for releasing said radiants from engagement with the fire back when said fire back is raised.

1,459,995. HIDDEN SWITCH FOR COIL BOXES. COURTLAND SARING, Sharon, Pa. Filed Mar. 6, 1922. Serial No. 541,469. 7 Claims. (Cl. 175—360.)



1. A coil box including a terminal for connection with a source of energy, a flooring board for the coil box, a conductor strip extending longitudinally of the flooring board, a contact extending from said conductor strip, a switch carried by the flooring board and including an element movable into and out of engagement with the contact, and a conductor for connecting the switch with a source of energy terminal carried by the coil box.

1,459,996. EDUCATIONAL AND AMUSEMENT TOY. CHARLES SCHWARZ, Bayonne, N. J. Filed Apr. 18, 1922. Serial No. 555,017. 5 Claims. (Cl. 35—9.)

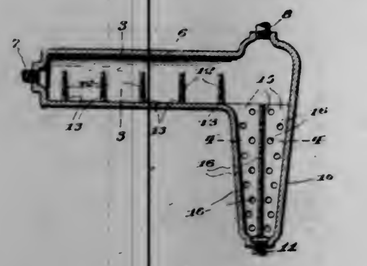


1. In a toy the combination of a supporting platform, a disc with indications thereon detachably supported on the platform, a rotatable indicating disc journaled to the platform, a pointer on the latter disc and means to vary the speed of rotation of the rotatable indicating disc.

1,459,997. BOILER CLEANER. HARGUS G. SHELLY, Mulvane, Kans. Filed Mar. 28, 1922. Serial No. 547,476. 2 Claims. (Cl. 210—60.)

1. A boiler cleaner comprising a horizontally disposed elongated vessel having an inlet connection at one end, the other end of said vessel terminating in a dome shaped enlargement, said enlargement having an outlet connection, a depending sediment collecting well forming a continuation of said vessel and said enlargement, said

enlargement and said well having downwardly tapering walls, a series of vertical, radially disposed perforated



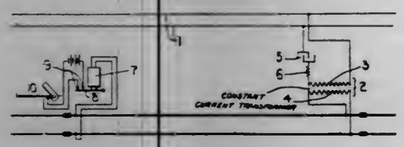
baffle plates in said well and a series of vertical, transversely disposed baffle plates in said horizontally disposed vessel.

1,459,998. LAWN MOWER. EPHRIAM W. SIMMONS, Corinth, Miss. Filed Aug. 10, 1921. Serial No. 491,192. 5 Claims. (C. 56—25.)



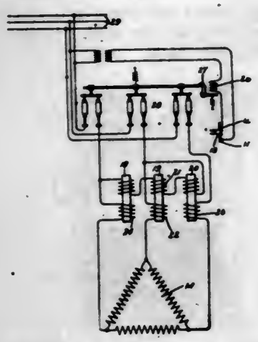
1. A lawn mower comprising a frame including a rectangular shaped bed plate, a pair of inverted U-shaped wheel frames arranged on opposite sides of the bed plate, means securing the inner ends of the frames to the bed plate, relatively large wheels rotatably mounted in said wheel frames, a transversely extending brace bar connecting the frames together, a motor mounted upon said bed plate, a reciprocating cutter bar, and means operatively connecting said cutter bar with said motor.

1,459,999. RAILWAY SIGNALING APPARATUS. ARTHUR EWART TATTERSALL, Harrow, England. Filed Feb. 24, 1921. Serial No. 447,576. 2 Claims. (Cl. 246—34.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



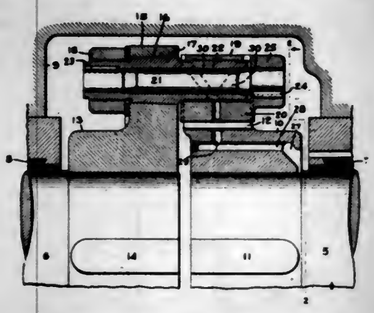
1. The combination, with a track section having insulated rails, of a constant current transformer having primary and secondary coils, leads connecting the primary coil with a source of alternating current, leads connecting the secondary coil with the said rails, the said transformer having a large magnetic leakage and operating to maintain a constant current in the secondary circuit whether the rails are occupied by a train or not, and a local circuit operatively connected with the said rails and having a signal and a relay included in it.

1,460,000. PROTECTIVE DEVICE FOR POLYPHASE CIRCUITS. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 7, 1920. Serial No. 371,798. 4 Claims. (Cl. 175—294.)



3. In a protective device for a polyphase circuit, a switch tripping mechanism, an electromagnet in each phase, the electromagnets having each a shunt coil, a series coil acting in opposition to the shunt coil, and a movable member acted upon by the shunt and series coils for operating the tripping mechanism, whereby upon the failure of any phase the opposing effect of the series coil substantially ceases and the shunt coil of the electromagnet in that phase attracts its movable member and moves the tripping mechanism to open the said circuit.

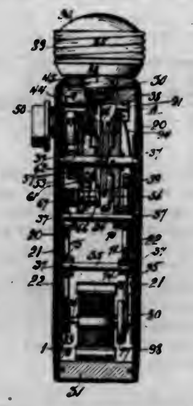
1,460,001. SHAFT COUPLING. ERNEST N. TWOGOOD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,805. 13 Claims. (Cl. 64—89.)



1. In a coupling for adjacent shaft ends, the combination of a set of outwardly projecting members, a set of inwardly projecting members, said members engaging each other, and means connecting said sets to the shaft ends, the means for connecting one of said sets comprising torsional shaft members.

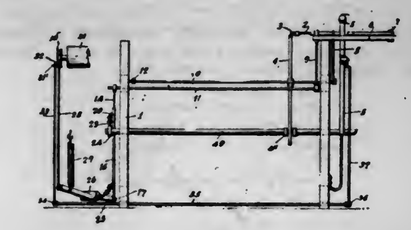
1,460,002. FLASH LIGHT. ANDREW URAN, New York, N. Y., assignor of one-half to Julius Weiss, New York, N. Y. Filed Feb. 9, 1922. Serial No. 535,343. 2 Claims. (Cl. 240—8.5.)

2. In a flashlight the combination of a casing comprising a pair of side members having openings formed therein, a strip having journal bearings formed therein fastened to the inner face of each of said side members, said journal bearings coaxial with the openings in said side members, removable covers on the outer face of said side members covering the openings therein, a frame constituting a permanent magnet forming with the said side members a compartment for said flashlight, an electric lamp connected to one end of the casing, an electric generator in the casing in electric circuit with said lamp,



means to operate the electric generator in said compartment and supported in the journal bearings of said strips, an operating arm on the outside of the casing and a connection between said arm and the said means to operate the electric generator.

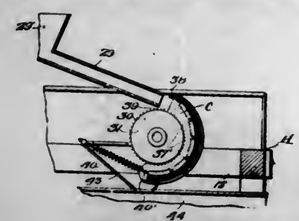
1,460,003. STOP MECHANISM FOR ROTARY BOX LOOMS. JOSEPH EMILE WAGEMANS and GUSTAVE LEDEWYN, Brussels, Belgium. Filed June 8, 1914. Serial No. 843,856. 2 Claims. (Cl. 139—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In a loom, a carrier actuated when a weft thread breaks or a cop is exhausted, a lever operated thereby, a rotatable shuttle barrel, means in connection with the lever for producing the rotation of the shuttle barrel, an operating lever for starting and stopping the loom, and means for actuating the operating lever only when all of the shuttles in the barrel have been used, said means comprising a projection rotatable with the barrel, a hook for engaging the projection, and a connection from the hook to the operating lever.

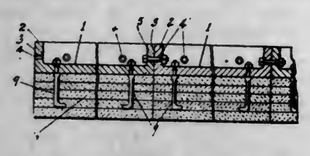
1,460,004. METHOD AND APPARATUS FOR DECORTICATING NUTS. HALL WARREN, Galveston, Tex. Original application filed Apr. 12, 1920, Serial No. 373,303. Divided and this application filed July 7, 1920, Serial No. 394,560. Renewed Jan. 12, 1923. Serial No. 519,799. 11 Claims. (Cl. 83—36.)

1. In an apparatus for decorticating nuts, a husker for removing the outer fibrous layer comprising a rotary cutter and a flexible stationary cutter cooperating with said rotary cutter to effect the removal of the husks consisting of a housing having an open end adjacent the rotary cutter, a plurality of cutter segments linked to each other and disposed in said housing, flanges secured to the side wall of said housing to limit the movement of said cutter segments toward said rotary cutter, a cross head carried by the upper end of said housing and connected to said cutter segments to hold them against



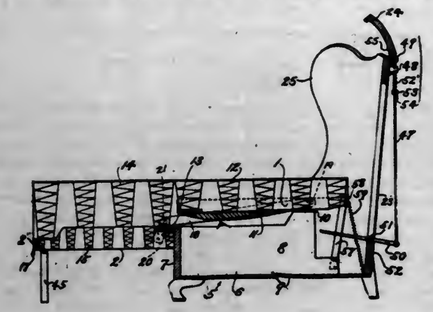
movement in the direction of rotation of said cutter, a pneumatic tube for resiliently resisting the movement of said cutter segments away from said rotary cutter, and a retractile coil spring for maintaining said cutter segments against said flanges and resiliently resisting motion of said cutter segments in the direction opposite to the rotation of said rotary cutter, all as and for the purposes set forth.

1,460,005. WALL BLOCK OR MEMBER. OTTO H. L. WERNICKE, Gull Point, Fla. Filed Jan. 12, 1922. Serial No. 528,734. 6 Claims. (Cl. 72—16.)



3. A wall member consisting of a metal back plate having rearwardly projecting coupling members provided with holes to receive coupling bolts, and a facing anchored to said plate.

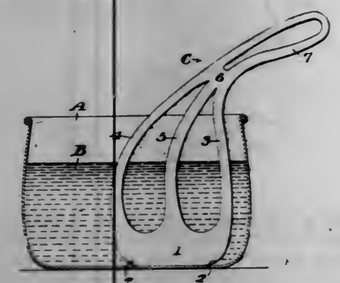
1,460,006. COMBINED DAVENPORT AND BED. WILLIAM WESTPHAL, Los Angeles, Calif. Filed Apr. 18, 1922. Serial No. 555,015. 16 Claims. (Cl. 5—44.)



1. In furniture of the character described; a base; a reversible back frame pivotally connected to said base at one side thereof; a reversible seat frame pivotally connected to said base at the other side thereof and at a level lower than that at which the back frame is pivoted; arms fixed to and projecting from the base and a link at each end of said seat and back frames pivotally connected at one end to said seat frame and at its other end

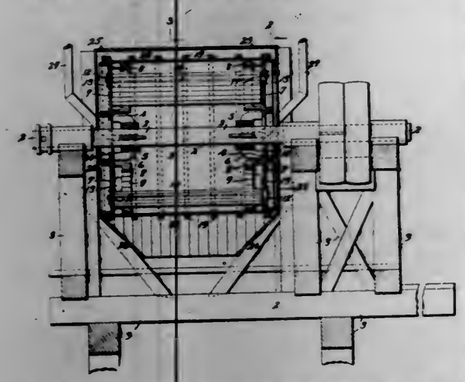
to said back frame, said links being below the level of the seat frame when the frames are in seat form and adapted to simultaneously turn said back frame with said seat frame.

1,460,007. STIRRING PADDLE. ALLIE M. WILLIAMS, Fort Smith, Ark. Filed Mar. 16, 1923. Serial No. 625,494. 6 Claims. (Cl. 259—144.)



1. A stirring paddle comprising a bottom portion with straight edge and curved corners, a body portion rising therefrom and inclined to one side in the plane thereof and having curved edges, and a handle portion forming a continuation of said body and following the inclination thereof.

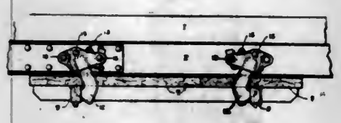
1,460,008. ROCK PULVERIZER. CARL S. WILLIS, Bellingham, Wash. Filed May 29, 1922. Serial No. 564,373. 3 Claims. (Cl. 83—9.)



1. A rod pulverizer, comprising ends spaced apart and secured together, each end having a corresponding series of rod supporting frames secured to it to project from its inner face and support the rods intermediate their ends, the inner surfaces of which frames have means for preventing the rods moving collectively round the frame as the rods rotate and apertured between the rod supports and the ends to provide escape of the material from that space, a group of freely movably rods supported in the corresponding frame of each end and extending between them, means for rotating the ends with their supported rods, means for delivering the material to be pulverized on the upper surfaces of the rods in the several groups, and means for screening the material as it falls from the rods.

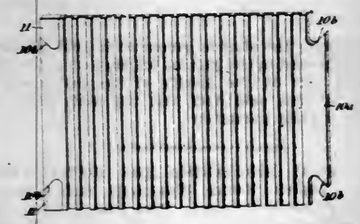
1,460,009. RAILWAY CAR. WILLIAM E. WISE, Toledo, Ohio. Filed June 23, 1921. Serial No. 479,723. 10 Claims. (Cl. 105—308.)

1. In a door device for railway cars, a door hinged to the car body, with the door pintles arranged longitudinally of the car, a pair of door-supporting members pivoted upon the car body and arranged to cooperatively engage portions of the door to retain the same in closed position, the said members being disposed in opposite directions with respect to each other and being arranged



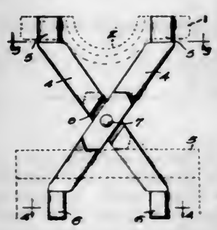
to cooperate between the door and the car body in such manner that one of said members will arrest the door against slippage longitudinally of the car, in one direction and the other against such slippage in the opposite direction.

1,460,010. ISOLATOR FOR BATTERY SEPARATORS. CHESTER M. ANGELL, Chicago, Ill., assignor to Vesta Battery Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 26, 1922. Serial No. 563,854. 8 Claims. (Cl. 204—29.)



5. Device according to claim 1 in which the plate portion is provided with a number of small perforations.

1,460,011. BEARING HOLDER. MATHIAS B. BANOWETZ, Charlotte, Iowa. Filed Aug. 12, 1922. Serial No. 581,485. 3 Claims. (Cl. 81—38.)



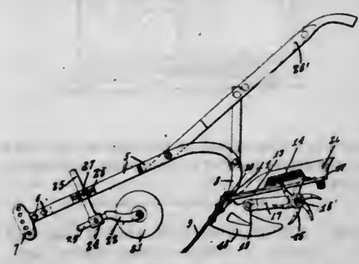
1. A supporting device for bearing members, comprising a pair of crossed arms pivoted to each other intermediate their ends and adapted to be arranged between the jaws of a vise, said arms being provided with offset ends disposed substantially parallel to each other, the ends of each arm being of different size and the two small ends of the arms being arranged adjacent to each other.

1,460,012. METHOD OF PREPARING COLLOIDAL METALS AND METALLOIDS AND COMPOUNDS OF SAME. LUDWIG BEREND, Amoneburg, near Biebrich-on-the-Rhine, Germany. Filed June 28, 1920. Serial No. 392,535. 13 Claims. (Cl. 252.)

1. A process of preparing inorganic substances in colloidal form consisting in inorganic substances being

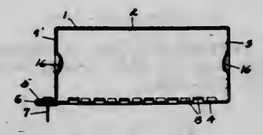
treated with cellulose waste liquor while heating until the desired insoluble substance is obtained in colloidal form.

1,460,013. PLOW. CLARENCE R. BOULDIN, McKenzie, Tenn. Filed June 10, 1921. Serial No. 476,552. 1 Claim. (Cl. 55—144.)



A harvesting plow comprising spaced beams having curved rear ends, a plow blade having connection with the curved rear ends of the beams, slides secured to the plow blade and extending rearwardly therefrom, a pivoted screening member comprising a plurality of spaced bars, a bar connecting the rear ends of the spaced bars, a hood supported by the screening member, pivoted arms carried by the slides, said pivoted arms extending inwardly and lying in proximity to each other, a wheel supported between the adjacent ends of the arms, said wheel adapted to contact with the hood to move the screening member vertically, and side boards carried by the screening member.

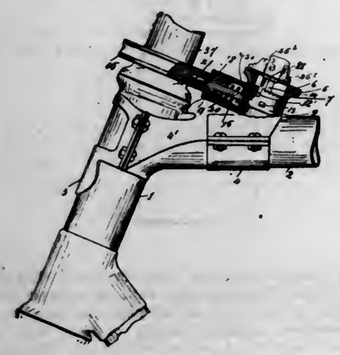
1,460,014. FLOOR AND CEILING CONSTRUCTION. HENRY D. CONWAY, Detroit, Mich. Filed Sept. 1, 1920. Serial No. 407,470. 7 Claims. (Cl. 72—66.)



6. A sheet metal tile member for floor and ceiling structures comprising top, sides and bottom, the bottom being slotted at one end to receive the edges of a coacting member telescoped therewith.

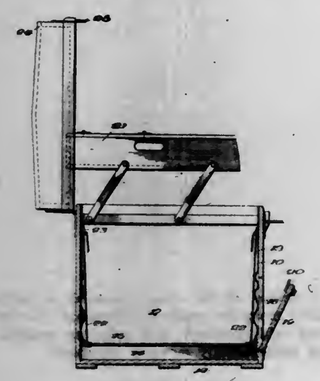
1,460,015. LOCK FOR VEHICLES. ALFONSO CAPPELLARI, Bologna, Italy, assignor of one-half to Luigi Donzelli, Bologna, Italy. Filed June 23, 1922. Serial No. 570,333. 5 Claims. (Cl. 70—18.)

1. A safety device including a cylindrical box mounted on one of the parts to be locked, a sliding block in said box provided with a bolt, a spring for forcing said bolt toward the other part to be locked, a bore in the last mentioned part adapted to receive said bolt, a stem projecting from said block and extending in a direction opposite to that of said bolt, manually operated means for moving said block in one direction against the action of said spring, a cylindrical tube arranged at right angles to said box and provided with an aperture to permit the passage of said stem, a tubular chamber arranged at right angles to said box and provided with an aperture to permit the passage of said stem, a rotatable tube arranged in said chamber, a block arranged in said tube and axially guided by the latter, a cover for said chamber, a pivot pin mounted in said cover and provided with an integral angle piece, the upper face of said cover forming a dial, a block provided with radial pointers loosely connected to the pivot piece, radial groooves in the upper face of the block arranged in the tube, one of said grooves being of greater depth than the remainder of the grooves to permit the arm of the



angle piece to enter the same and allow the block within the tube to move toward said cover, and a projection on said tube adapted to be engaged by the arm of the angle piece to cause rotation of the tube, a series of peripherally arranged small apertures in the wall of said rotatable tube lying in the plane in which the stem moves, said tube being also provided with larger holes adapted to receive said stem when one of the last mentioned holes registers with the aperture in the cylindrical chamber.

1,460,016. BAGGAGE RECEPTACLE. FRANK B. EMERY, Petersburg, Va. Filed May 9, 1921. Serial No. 468,022. 6 Claims. (Cl. 190—19.)



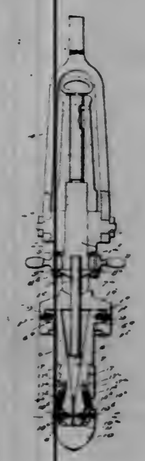
1. In a baggage receptacle, the combination of a soft, pliant partition member permanently secured to the upper portions of the side walls of the receptacle and dividing the interior of said receptacle into a plurality of separate, distinct compartments, said partition being movable toward and away from the bottom of the receptacle whereby the areas of the respective compartments may be varied at will, the area of either compartment being limited only by the capacity of the receptacle.

1,460,017. JAR CLOSURE. CHARLES C. EMICK, Lancaster, Pa. Filed Aug. 17, 1922. Serial No. 582,446. 5 Claims. (Cl. 215—46.)



1. The combination with a jar closure having threads pressed in its circumferential wall, of a finger piece for the closure having portions extending in opposite directions therefrom circumferentially of said wall of the closure and seated and secured within the valleys of the threads.

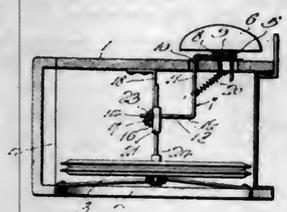
1,460,018. CASING ELEVATOR. JAMES D. GIBBS, Louisville, Ky. Filed Dec. 2, 1921. Serial No. 519,452. 11 Claims. (Cl. 294—102.)



1. In a device of the class described, a carrier member, radially movable members supported thereby, means for moving said members, and gripping wedges slidably carried by said radially movable members.

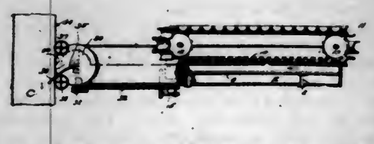
1,460,019. AUTOMATIC ALARM. FRANK PERLEY HARTLEY, Bangor, Me. Filed Oct. 23, 1922. Serial No. 596,366. 4 Claims. (Cl. 116—102.)

2. An automatic alarm comprising a casing having a slot in one side, a bracket in the casing spaced from said slot, alarm means, an alarm control lever extending through said slot and fulcrumed upon the casing, and yieldably held against movement into a set position, said lever when in a set position preventing operation of the alarm means, a latch pivoted on said bracket for normally holding said lever against movement out of a



set position, a thermostat at one side of the casing, and a releasing device pivoted to said latch and engaging said thermostat.

1,460,020. MECHANISM FOR HANDLING BOTTLES, ETC. MERTON C. HEATH, Terre Haute, Ind. Filed Feb. 28, 1920. Serial No. 361,971. 1 Claim. (Cl. 198—22.)



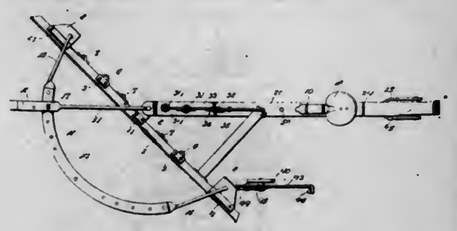
In a mechanism for handling bottles, the combination with a movable apron and a conveyor adjacent thereto, of a rotary disk in close relation to the apron and in position to receive bottles from the apron, means overlying and terminating at the center of the disk and projecting over the conveyor in position to intercept a bottle on the disk and to direct it onto the conveyor, a guard wheel overlying the disk and the conveyor and mounted to rotate on an axis parallel with the axis of the disk, and means for rotating the disk and for moving the apron in the direction to discharge thereto.

1,460,021. STOVEPIPE. JOHN T. HILDEBRAND, Ritz, Ark. Filed Sept. 22, 1922. Serial No. 589,825. 1 Claim. (Cl. 126—309.)



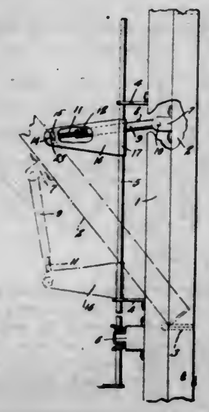
A stove pipe section formed from a single sheet of metal having one of its meeting edges bent upon itself inwardly and then outwardly to form a longitudinal groove having a plurality of slits therein, and its opposite meeting edge bent to provide a bevelled flange adapted to accommodate the outermost portion of the groove so as to make the meeting edges engage in parallelism to provide an even surface, and inwardly and downwardly inclined lugs projecting from the bevelled flange and designed to engage the slits for holding the meeting edges in locked engagement as described.

1,460,022. GRADER. GEORGE E. KETCHUM, Marceline, Mo. Filed Dec. 31, 1921. Serial No. 526,112. 7 Claims. (Cl. 37—178.)



1. A grader comprising a blade, a main supporting beam extending rearwardly from the blade and having detachable pivotal connection therewith, and a plurality of draft members extending from the blade and having detachable pivotal connections with the same, one of said draft members constituting the connection between the blade and the main supporting beam.

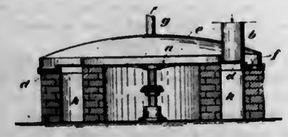
1,460,023. TRANSOM LIFT. GEORGE LEAKE, Mason City, Iowa. Filed May 8, 1922. Serial No. 559,325. 3 Claims. (Cl. 268—17.)



1. The combination with a frame and a transom hinged to the frame, of an operating member mounted for right-line sliding movement on the frame; an arm carried by the operating member and projecting away from the transom; a link extended across the operating member when the transom is closed; means for effecting a pivotal connection between the link and the transom at a point closely adjacent to the transom and on one side of the operating member when the transom is closed; and means for pivoting the link to the arm, on the opposite side of the operating member, the two pivoting means being located nearly in horizontal alinement when the transom is closed.

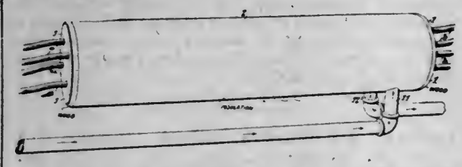
1,460,024. APPARATUS FOR THE SEMICOKING OF COAL, SLATE, OR OTHER BITUMINOUS SUBSTANCES. KARL FAINZ ZU LÖWENSTEIN, Berlin, Germany. Filed Aug. 22, 1921. Serial No. 494,213. 4 Claims. (Cl. 202—4.)

1. An apparatus of the character described comprising in combination a horizontally arranged disk, means for housing said disk, means for rotating said disk, an annular heating channel arranged below said disk whereby heat may be applied directly to the lower face



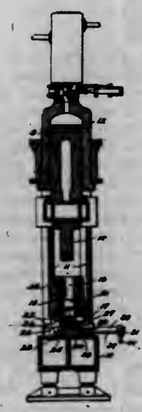
of said disk and a feeding tube arranged above said disk substantially as and for the purpose specified.

1,460,025. INSTANTANEOUS HEATER. CHARLES D. MCLEAN, Berlin, N. H., assignor to Mechanical & Electrical Manufacturing Co., Incorporated, Berlin, N. H. Filed May 18, 1922. Serial No. 561,940. 8 Claims (Cl. 219—39.)



1. A heating appliance of the character stated comprising two independent pairs of heating units, each of which units including a heating core and a water passage surrounding the core, means insulating the core from the water passage, the several water passages being arranged in series and in communication and terminating with an inlet at one end and with an outlet at the other end for connection with a supply or service pipe.

1,460,026. SALT PRESS. JAMES PATRICK MADDEN, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Oct. 12, 1921. Serial No. 507,221. 15 Claims. (Cl. 100—57.)



1. In a device of the class described, the combination of a stationary vertically arranged die chamber open at its ends, a plunger adapted to enter the upper end of said chamber and move downwardly therein, a movable bottom die member adapted to close the lower end of said chamber, means operating through one continuous movement for moving said lower die member hori-

mentally to position below the lower end of said chamber and then vertically against the lower end of said chamber, closing it and operating through one continuous reverse movement to move said die member downwardly on vertical lines and then laterally to one side of the lower end of said chamber.

5. In a device of the class described, the combination of a stationary vertically arranged die chamber open at its ends, a plunger adapted to enter the upper end of said chamber and move downwardly therein, a horizontal support a distance below the lower end of said chamber greater than the height of the compressed material, a supporting and operating member adapted to slide across said support under said chamber from one side, a lower die member longitudinally movable with and on said supporting member with its upper surface normally slightly below the plane of the lower end of said chamber, the contact surfaces of said die member and supporting member being at a vertical incline to the line of movement, a fixed stop for interrupting the horizontal movement of said die member when it reaches a position below said chamber whereby the continued movement of said supporting member will by the wedging action of the inclined contact surfaces force said die member vertically into close contact with the lower end of said chamber.

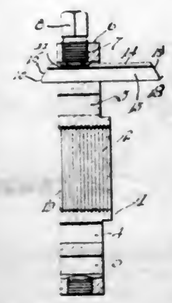
1,460,027. AIR-RELEASE DEVICE. WALTER A. E. MADDOCK, Hamilton, N. Dak. Filed Apr. 14, 1921. Serial No. 461,214. 1 Claim. (Cl. 152—12.)



As an article of manufacture, an air releasing device for tire valves comprising a tubular body having its forward portion interiorly threaded for engaging the threads of a valve stem, a cone shaped perforated head fitted in the forward portion of said body at a point spaced from the screw threads and having a pointed forward end for engaging and depressing the valve, the rear portion of said head and adjacent portion of the tubular body being formed with inwardly pressed interfitting annular beads forming an attaching means for the head, the rear portion of the tubular body being reduced in cross sectional area to form a small air outlet opening, and to prevent foreign matter from freely entering the tubular body.

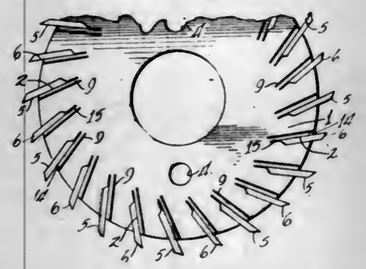
1,460,028. MILLING-MACHINE CUTTER. JULIUS MATTSON, Chicago, Ill. Filed Sept. 8, 1922. Serial No. 586,904. 2 Claims. (Cl. 29—105.)

1. A device of the character described comprising a cutter plate adapted to be carried by the spindle of a milling machine or the like, said plate being provided with an opening disposed transversely therethrough and a threaded bore extending outwardly from one wall of said opening to the peripheral wall of said plate, a threaded set screw adapted to be received in the threaded bore, a gripping plate disposed in said opening and in registration with the lower end of said threaded bore, and means for limiting the movement of said gripping plate in one direction and a cutting blade having a sectional contour



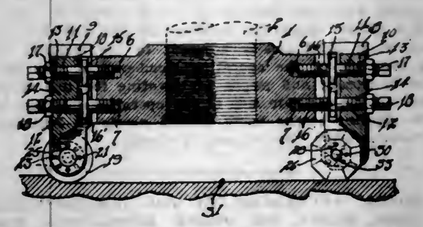
corresponding with the side walls of said opening adapted to be received in said opening and locked in position by said set screw.

1,460,029. MILLING-MACHINE CUTTER. JULIUS MATTSON, Chicago, Ill. Filed Oct. 30, 1922. Serial No. 597,898. 5 Claims. (Cl. 29—105.)



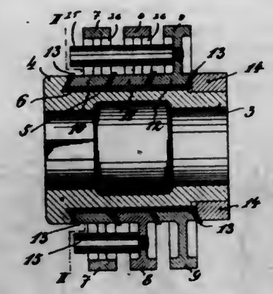
1. A milling machine cutter comprising a circular plate adapted to be rotated, said plate having recesses in its outer periphery, cutters disposed in said recesses, and means for locking said cutters in place, certain of said cutters extending further from the axis of rotation of said plate than the other cutters, while the work engaging portions of the other cutters extend below the work engaging portions of the first named cutters.

1,460,030. MILLING-MACHINE CUTTER. JULIUS MATTSON, Chicago, Ill. Filed Dec. 21, 1922. Serial No. 608,270. 8 Claims. (Cl. 29—105.)



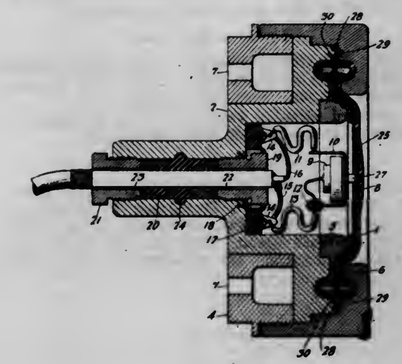
1. A device of the type described comprising a tool plate, and circular and non-circular cutters carried by said tool plate, said non-circular cutters being turned more at right angles to the direction of travel of said circular cutters than the circular cutters.

1,460,031. MOUNTING FOR SLIP RINGS OF DYNAMO-ELECTRIC MACHINES. ERNST MEYERCORDT, Locknits, near Stettin, Germany. Filed Sept. 9, 1920. Serial No. 409,281. 4 Claims. (Cl. 171—322.)



1. In combination with a slip ring support having an axially presented recess, a slip ring having an axial projection engaging said recess, said slip ring having an axially presented recess on the side opposite to said projection, and means clamping said slip ring against said support in axial direction, said clamping means having an axial projection engaging the recess in said slip ring.

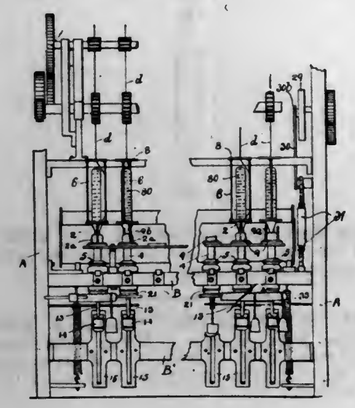
1,460,032. VIBRATION DETECTOR. CHARLES R. MOORE, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,495. 18 Claims. (Cl. 177—386.)



1. In a vibration detector for use under varying pressures, a stretched diaphragm, a current-varying device supported by said diaphragm, and means for rendering the degree of stretching of said diaphragm substantially independent of variations in pressure.

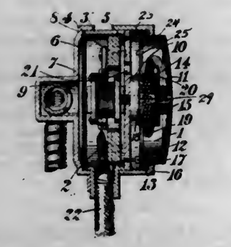
1,460,033. SPINNING, DOUBLING, TWISTING, AND LIKE MACHINE. SAMUEL MOORHOUSE, Leeds, England. Filed Apr. 26, 1921. Serial No. 464,501. 8 Claims. (Cl. 118—49.)

1. In a machine of the character described, the combination of a vertically positioned spindle, means for reciprocating said spindle, a substantially conical shaped cup surrounding the spindle with the smaller end directed



downward, said cup being supported in an upright position at both its upper and lower ends, and means for rotating the cup.

1,460,034. TELEPHONE TRANSMITTER. ROBERT LAMBERT MURRAY, Bushey Heath, England, assignor to Telephone Manufacturing Company Limited, London, England. Filed Aug. 24, 1921. Serial No. 494,771. 3 Claims. (Cl. 179—138.)



2. In a telephone transmitter, a support, a microphone comprising a fixed element in the form of a disc carried by the support and a movable element comprising a cup-shaped member having carbon granules therein arranged to co-operate with the fixed element, a diaphragm domed to present an external convex surface, said diaphragm being secured solely at its circumferential margin to said support, and provided with an integral central boss to which said cup-shaped element is attached with its open mouth directed towards but spaced away from said fixed element.

1,460,035. CONCRETE INSERT. LAURITS A. NIELSEN, Seattle, Wash. Filed Nov. 9, 1920. Serial No. 422,856. 1 Claim. (Cl. 72—105.)

A device of the class described, comprising a tubular body of the same diameter throughout its length having a threaded opening at its upper end and provided at its lower end with anchor legs formed integral with and

continuing downwardly from opposite sides of the body, in a converging manner, and provided at their ends with



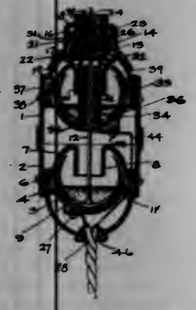
outturned feet; said legs and feet lying within the lines of the body portion, and an anchor bolt mounted within the threaded aperture.

1,460,036. SCREW DRIVER. WILLIAM J. PARSONS, Montague, Mass., assignor to Millers Falls Company, Millers Falls, Mass., a Corporation of Massachusetts. Filed June 28, 1922. Serial No. 571,360. 2 Claims. (Cl. 279—95.)



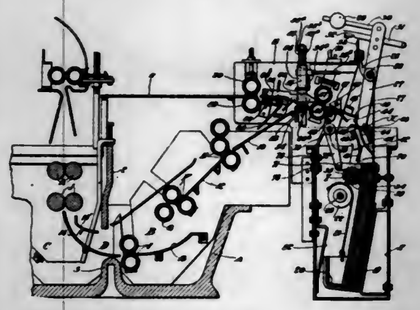
1. A tool of the character stated, comprising, in combination, a handle having a longitudinal central bore, enlarged at the outer end of the handle, to form a socket concentric with the main portion of the bore, a shank formed to fit and move endwise in the main portion of the bore, a head of greater diameter than, and concentric with, the shank, and having an annular flange, formed to bear on the outer end of the handle, said head being formed to be moved endwise into, and to fit the handle socket, and to engage the outer end portion of the shank, attaching means adapted to secure the head to the shank, when the outer end of the shank and the head are outside the handle, and attaching means adapted to secure the inner end portion of the shank to the handle, when the head is inserted in the handle socket, to prevent relative endwise movement of the shank and handle, the head and handle being provided with complemental clutch parts, adapted to be interengaged by movement of the head into the socket, and to prevent rotation of the handle on the shank.

1,460,037. ROTATABLE CONNECTOR. ISAAC PIERSON, Wellesley, Mass.; PHILIP H. PIERSON, administrator of said Isaac Pierson, deceased. Filed Apr. 17, 1919. Serial No. 290,893. 7 Claims. (Cl. 173—324.)



3. In a swivel connector an electrode carrying member; a casing; means connecting said member and casing; a plurality of substantially spheroidal contact cups having axial openings therein; means for mounting said cups in said casing; a plurality of electrodes concentrically mounted on said electrode carrying member and having the free ends extending into said cups, said ends being provided with contact members following the inner contour of said cup.

1,460,038. DEFLECTOR FOR PLATE-FEEDING MECHANISMS. ELMER C. POOL, New Castle, Pa. Filed July 28, 1922. Serial No. 578,187. 7 Claims. (Cl. 271—56.)

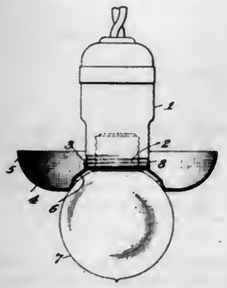


1. In an automatic plate feeding mechanism, a pair of calipering members, means for feeding said plates from a pack, a switch member pivotally mounted for vertical movement at a point forward of said calipering members, said switch member being normally held in its upper position out of the path of travel of said plates by one of said calipering members, said calipering member being adapted to be moved upwardly away from said switch by the plates when more than one plate passes between the calipering members, whereby said switch member will fall into the path of travel of the plates and effect them out of their normal path.

1,460,039. CLEANING PASTE. CARL AXEL ROBERT SAMSIOE, Stockholm, Sweden. Filed Feb. 5, 1920. Serial No. 356,369. 1 Claim. (Cl. 87—5.)

An approved cleaning paste consisting essentially of a mixture of bicarbonate of soda and glycerine.

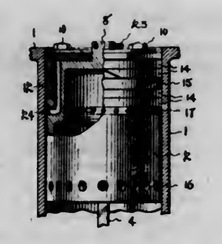
1,460,040. HUSK FOR ELECTRIC-LIGHT FIXTURES. JOHN WILLIAM SCHULZE, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Dec. 10, 1920. Serial No. 429,681. 1 Claim. (Cl. 173—362.)



The combination with an electric light socket of a husk provided with means to engage the lower surface thereof, said husk comprising an annular member depending

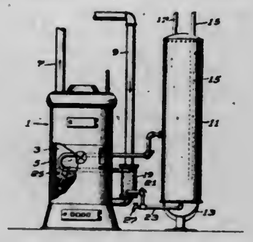
downwardly from said socket to form a concave portion for the reception of a lamp in relative close position thereto, and thence flaring outwardly and upwardly.

1,460,041. PISTON. THOMAS C. SMITH, Bridgeport, Conn., assignor, by direct and mesne assignments, of one-third to George P. Smith and Roger E. Dickinson, both of New Haven, Conn., and one-third to Albert C. Menges and Robert L. Carr, both of Memphis, Tenn. Filed Sept. 3, 1921. Serial No. 498,390. 7 Claims. (Cl. 74—109.)



1. In a device as described, a piston having a reduced portion upon which a piston packing ring is seated and a longitudinal slot in said reduced portion adapted to receive a tool employed for removing said ring.

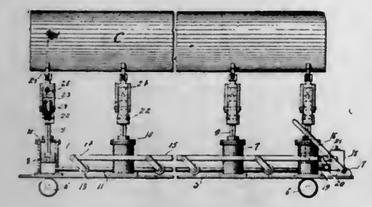
1,460,042. WATER-HEATING APPARATUS. WALTER S. SMITH, Foxboro, Mass. Filed Feb. 9, 1923. Serial No. 618,130. 9 Claims. (Cl. 126—366.)



1. The combination of a hot water heater having a fire-box, a water chamber and pipes for conducting water to and from said chamber; a water storage tank, a casing interposed in the pipe for conducting water to the heater chamber, a coil in said casing, a pipe connecting one end of the coil with the tank, and a pipe leading from the opposite end of the coil into the fire-box and thence from the latter to the tank, that the water may circulate from the tank through the coil and the pipes associated therewith, to be preliminarily heated by the water passing through the casing, and further heated by the fire in the fire-box.

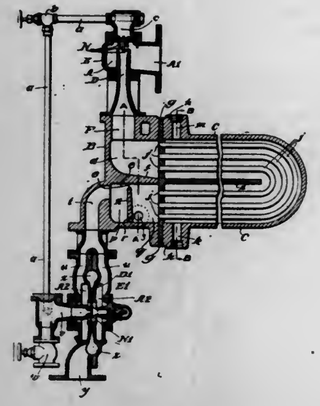
1,460,043. APPARATUS FOR SUPPORTING GLASS CYLINDERS. THOMAS STENHOUSE, Washington, Pa., assignor, by direct and mesne assignments, of sixteen and two-thirds per cent to Alexander L. Duval D'Adrian, Washington, Pa., and sixteen and two-thirds per cent to Bernhard F. Drakenfeld, jr., New York, N. Y. Original application filed Nov. 25, 1919, Serial No. 340,630. Divided and this application filed Mar. 25, 1921. Serial No. 455,583. Renewed Apr. 7, 1923. 1 Claim. (Cl. 49—14.)

In a support for glass cylinders, a fluid sustained series of cylinder supports, and means to control the sustaining influence of the fluid, and thereby equally distribute the weight of the cylinder betwen the supports, each support including a piston and piston rod, a carriage mounted upon the upper end of the piston rod



for movement transversely relative to the normal axis of the cylinder, a saddle on said carriage to receive the cylinder, and means acting to cushion the transverse movement of the carriage, and to return the same to its normal central position, when the cylinder is removed.

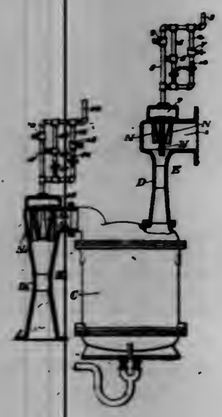
1,460,044. METHOD OF AND APPARATUS FOR COMPRESSING FLUID. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1919, Serial No. 271,362. Renewed May 9, 1923. 11 Claims. (Cl. 230—13.)



1. The method of compressing an uncondensable elastic fluid in a plurality of stages, which consists in ejecting the same by condensable motive fluid to a higher pressure, passing the mixture in divided streams at high velocity through a plurality of continuous passages which are long as compared to their diameter, extracting heat from the walls of said passages, condensing said motive fluid, and ejecting the uncondensed fluid by motive fluid to a higher pressure, the ratio of compression in the first stage being higher than the ratio of compression in the later stage.

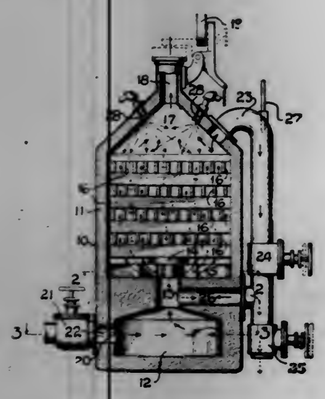
3. Combined ejector-condenser structure comprising ejectors, an interstage condenser comprising a plurality of continuous tubes extending forwardly and backwardly and connecting the discharge of one ejector with the suction of another ejector, and a baffle between the forwardly and backwardly extending portions of said tubes.

1,460,045. METHOD OF AND APPARATUS FOR COMPRESSING FLUID. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 13, 1921, Serial No. 469,163. Renewed May 9, 1923. 20 Claims. (Cl. 230—13.)



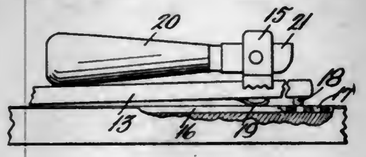
5. Ejector apparatus comprising expansion nozzle structure, co-operating diffuser structure, means for conveying motive fluid to said nozzle structure, means for diminishing the pressure of said motive fluid to predetermined degree, and means for bypassing said last named means.

1,460,046. APPARATUS FOR APPLYING HEAT AND METHOD OF USING SUCH APPARATUS. RUDOLPH VUILLEUMIER, New Rochelle, N. Y., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed May 5, 1917. Serial No. 166,676. 9 Claims. (Cl. 48—74.)



6. In apparatus of the class described, in combination, means provided with a heat-absorbing surface, means forming a combustion chamber, means adapted to lead gases from said combustion chamber through said heat-absorbing means, means adapted to lead gases from the remote side of said heat-absorbing means back into said gases on the inlet side of said heat-absorbing means, and means adapted to cause rotation of the burning gases in said combustion chamber.

1,460,047. DOOR HOLDER. BENJAMAN B. WALSTON, Dallas, Tex. Filed Oct. 31, 1922. Serial No. 598,108. 3 Claims. (Cl. 292—263.)

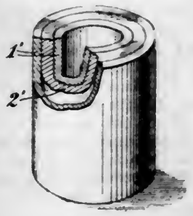


1. The combination with a hinged door and a fixed support adjacent thereto, of a connection pivoted to the said support, a spring pressed latch bar pivoted to the connection, a plate secured to the door at the outer end of the said bar, said plate being provided with a plurality of sockets, means on the latch bar for engaging in said sockets, and means for engaging said latch bar, holding said means in one of said sockets, whereby both ends of the said bar are locked and the door is held rigid.

1,460,048. ELECTRICAL HEATING ELEMENT. PERCY A. E. ARMSTRONG, Loudonville, and RALPH P. DE VRIES, Newtonville, N. Y.; said De Vries assignor to said Armstrong. Filed July 29, 1921. Serial No. 488,471. 9 Claims. (Cl. 219—76.)

1. An electrical heating element made of alloy steel containing carbon about .05 to 1%, chromium more than 10% and less than 30% silicon about 2 to 6%, a high melting point metal or metals other than chromium of the sixth group of Mendeleff's table about .20 to about 10%, and the principal part of the remainder iron.

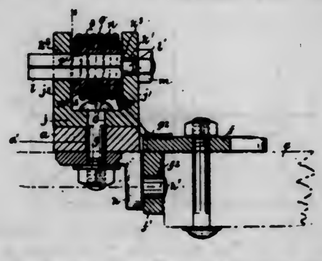
1,460,049. WORKABLE METAL ARTICLE. WILLIAM BOWMAN BALLANTINE, London, England. Filed Mar. 29, 1921. Serial No. 456,750. 2 Claims. (Cl. 50—75.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A workable metal article comprising a core of corrodible ferrous material having a non-corrodible ferro-alloy united thereto to render said article non-corrodible and permit working thereof.

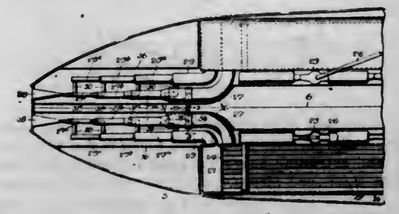
1,460,050. LOOM. EDWARD BLOOM, Paterson, N. J. Filed Apr. 18, 1922. Serial No. 554,779. 4 Claims. (Cl. 267—1.)

1. The combination of a support, a structure to be controlled movable back and forth therein, a spring having a helical body part and one end portion bearing against the support and the other opposing movement of said mem-



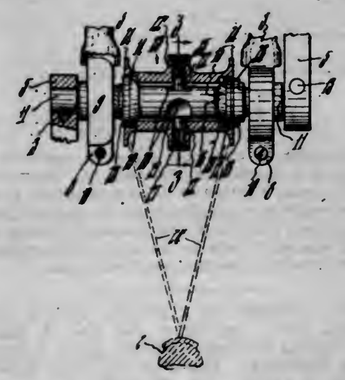
ber in one direction, and a bearing member embraced by the body part of the spring and freely revoluble in the support on the axis of said body part.

1,460,051. PROPULSION DEVICE. LOUIS G. BOSTEDO, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 328,034. 10 Claims. (Cl. 115—11.)



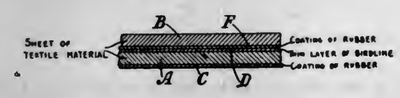
1. In a propulsion apparatus for craft navigating a fluid medium, the combination of a furnace, a steam generator through which the products of combustion from said furnaces are led, an exhaust flue for the products of combustion leading off from said generator, one or more jet compressors in said flue supplied with steam from said generator, and a propulsion tube communicating at its forward end with said flue and open at its rear end to the fluid medium being navigated.

1,460,052. CYCLE. GEORGE W. CLARK, Westfield, Mass., assignor to Westfield Manufacturing Company, Westfield, Mass., a Corporation of Massachusetts. Filed Mar. 7, 1921. Serial No. 450,258. 6 Claims. (Cl. 208—38.)



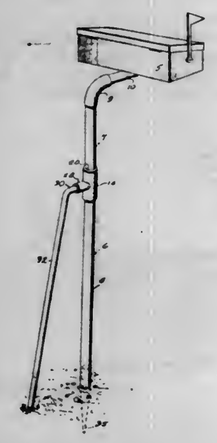
1. In a cycle, a drive shaft, a driven wheel mounted thereon comprising a hub with spaced apart spoke flanges, said hub having a recessed portion centrally disposed between said spoke flanges, and a one way clutching means to provide balanced driving mechanism for said wheel comprising elements on said driven wheel housed in said centrally disposed recess adapted to interconnect with elements on said drive shaft to permit rotation of the driven wheel relative to the drive shaft in one direction and to prevent rotation of the driven wheel relative to the drive shaft in the opposite direction.

1,460,053. BALLOON FABRIC AND METHOD OF MAKING SAME. CHARLES ANGUS CLEGHORN, Woburn Sands, England. Filed Nov. 26, 1919. Serial No. 340,942. 27 Claims. (Cl. 154—2.)



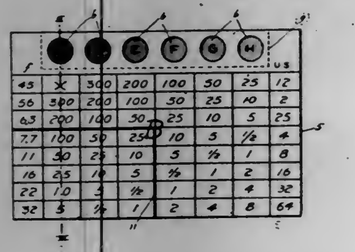
2. A balloon or like fabric composed of two sheets of thin textile material placed face to face, whereof one sheet is of a absorbent material and has on its inner face a "thin layer" of "birdlime" and the other sheet is so prepared that the "birdlime" does not so readily adhere to it as to the first sheet, diatomaceous earth and shellac being incorporated in the birdlime.

1,460,054. MAIL-BOX SUPPORT. EVERETT DAVIS, Elkland, Mo. Filed Feb. 25, 1922. Serial No. 539,138. 1 Claim. (Cl. 248—41.)



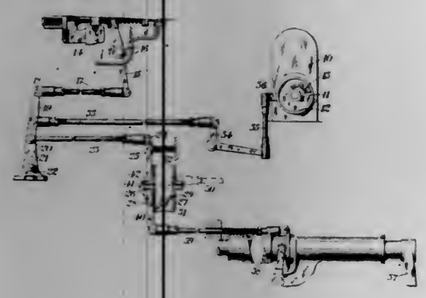
A support for mail boxes comprising a standard consisting of upper and lower tubular sections and a coupling arranged between the sections and formed with a lateral branch, a brace for said standard connected with said lateral branch, a screw threaded plug mounted in the upper portion of the coupling and having a pin of reduced diameter formed integral centrally thereof to provide rotatable connection with the upper section of the standard, said plug being provided with upwardly directed ears on each side of the pin and the lower edge of the upper section being provided with notches for receiving the upwardly directed ears for holding the upper section in a fixed position.

1,460,055. LIGHT GAUGE. CLAYTON L. DREW, San Francisco, Calif. Filed Nov. 17, 1921. Serial No. 515,914. 1 Claim. (Cl. 88—23.)



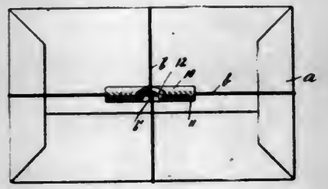
In a light gauge, a plate doubled at its top and having windows formed in said plate in the doubled portion and body, the windows in said doubled portion and body registering, said film strip having portions of varying density, said portions of said film being adapted to register with said windows, a chart formed on the face of the body of said plate, said chart having columns formed below each of said windows, figures vertically arranged in said columns, said figure designating shutter speeds, and additional columns having figures vertically arranged and denoting shutter apertures, the figures in said columns beneath said windows being in horizontal alignment with said figures in said additional columns, substantially as and for the purpose specified.

1,460,056. AUTOMATIC CONTROLLING MEANS FOR THE IGNITION TIMING IN INTERNAL-COMBUSTION ENGINES. CHARLES KEARNS EDWARDS and DUDLEY EUGENE BATTY, London, England, assignors to Associated Equipment Company, Limited, London, England, a British Company. Filed July 14, 1921. Serial No. 484,735. 5 Claims. (Cl. 123—117.)



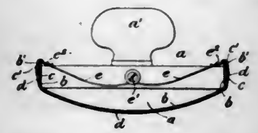
1. In an internal combustion engine, the combination with an ignition timing device, a valve controlling a supply of fluid to the engine cylinder, and a member operative according to changes in the speed of the engine, of a cam operatively connected with said valve and adjusted simultaneously with the same, said cam being shaped to suit the particular characteristics of the engine, and spring controlled means connected with said ignition timing device and arranged to be actuated by said cam and by said member in such a manner that the ignition timing device can be regulated according to changes in the speed of the engine and to changes in the supply of fluid to the engine.

1,460,057. HANDLE. WILLIAM C. J. EISEN, Jersey City, N. J. Filed Jan. 20, 1922. Serial No. 530,555. 3 Claims. (Cl. 229—52.)



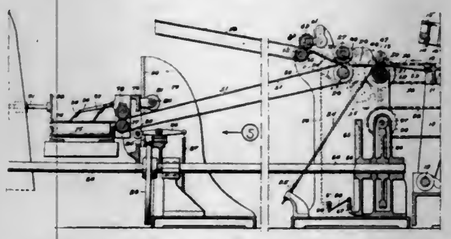
1. A detachable handle for parcels for packages tied by a string or the like, comprising a rod having a groove in the circumference extending throughout the entire length thereof and serving to engage the string.

1,460,058. DUPLICATING MEANS. HERBERT BRUNEL ARMITAGE EVERSHED, Guildford, England. Filed Oct. 19, 1920. Serial No. 417,876. 2 Claims. (Cl. 101—125.)



1. In a duplicating appliance, the combination comprising a body portion, an arcuate plate below the body portion and extending above the same at each end of the appliance, a felt pad disposed over the said arcuate plate, a clip at each end of the appliance each adapted to engage one end of the said arcuate plate and one end of the said pad, a gripping device on the top of the appliance at each end, a stencil paper adapted to enclose the said pad and clips and to be gripped at each end by the said gripping device.

1,460,059. SHEET-STACKING MECHANISM. BERNARD M. FINE, Deptford Township, Gloucester County, N. J., assignor to Samuel M. Langston Company, Camden, N. J., a Corporation of New Jersey. Filed Oct. 17, 1921. Serial No. 508,082. 30 Claims. (Cl. 93—93.)

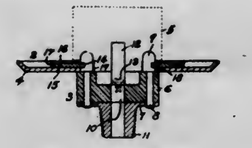


1. A machine of the class described, including two spaced pairs of superposed feed rolls, the lower roll of each pair having portions of reduced diameter, separate sets of conveyor belts engaging with the reduced diameter portions of said lower rolls, and means for guiding material from one set of rolls to the other, independently of the conveyor belts of the first mentioned rolls.

1,460,060. ELECTRICAL FIXTURE. MONROE GUETT, Hartford, Conn., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 30, 1920. Serial No. 413,763. 2 Claims. (Cl. 173—330.)

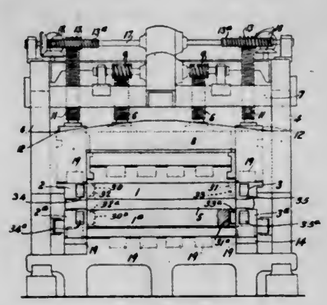
1. An electrical fixture comprising a receptacle and a plug attachably associated therewith, and provided

with means for securing an electrical connection therebetween when the members are connected and which is broken by the separation of the members, the plug having diametrically opposite notched rigid heads, the receptacle



having a rotary internally notched ring which when the notches thereof register with said openings, permits the separation or connection of the plug and the receptacle, and cam means for turning the ring to cause the solid part thereof to enter the notches of the studs when the members are connected.

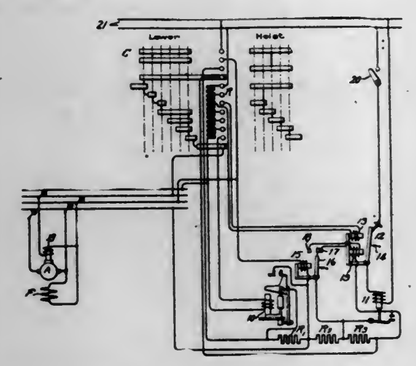
1,460,061. AXLE MILL. GAVIN SHEARER HAMILTON, Motherwell, and THOMAS THOMSON, Holytown, Scotland. Filed Feb. 15, 1922. Serial No. 536,664. 2 Claims. (Cl. 80—20.)



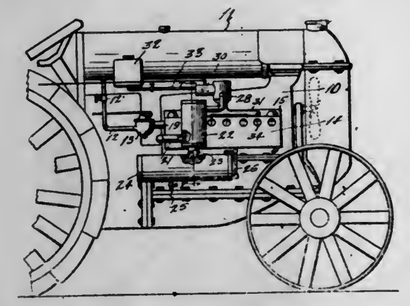
1. An axle mill comprising, in combination, three sets of superposed plates mounted for relative reciprocatory movement and presenting operative faces spaced to accommodate the bar to be treated and shaped to conform with the contour of the finished axle and means for first imparting feeding movements to the intermediate set of the three to form the middle portion of the axle and then imparting feeding movements to the external sets of the three to form the ends of the axle.

1,460,062. MOTOR-CONTROL SYSTEM. BENJAMIN W. JONES, Schenectady, N. Y., and ERNEST C. GOOCH, Estes Park, Colo., assignors to General Electric Company, a Corporation of New York. Filed Jan. 26, 1920, Serial No. 354,086. Renewed Nov. 4, 1922. Serial No. 599,147. 7 Claims. (Cl. 172—179.)

1. The combination with an electric motor having a series field and speed varying controller therefor having means for connecting the motor to a source of supply with the series field and armature in shunt circuits, of a normally short circuited resistance in the motor armature circuit, an electromagnetic switch biased to one position for controlling said resistance, the said switch having two windings, one of which is temporarily energized responsively to the motor current to effect the movement of said switch against its bias, and include the said resistance in the motor armature circuit when the said controller is moved to vary the motor speed, and the other winding is connected across the resistance for subsequently governing the operation of the switch to its biased position to control the short circuiting of the said resistance.



1,460,063. FUEL-OIL SEPARATOR AND VAPORIZER. MARTIN A. JONES, RUDOLPH KROLLAGE, and EARNEST C. YEAGER, McGregor, Tex. Filed June 26, 1922. Serial No. 570,853. 11 Claims. (Cl. 48—107.)

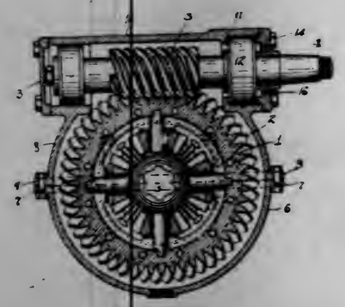


5. In a crude fuel oil separating and vaporizing apparatus for internal combustion engines, a crude oil supply tank, an independent heating coil exposed to the exhaust gases of an engine, a separating and expanding drum connected with the coil, a collecting receptacle for the separated liquids under the drum, and an intake manifold connected with the drum.

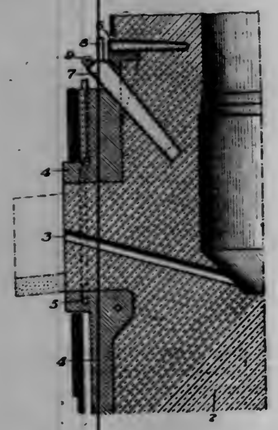
1,460,064. AXLE CONSTRUCTION. ROBERT KECK, Chicago, Ill., assignor to The Double Drive Truck Company, Chicago, Ill., a Corporation of South Dakota. Filed July 23, 1918. Serial No. 246,285. 1 Claim. (Cl. 74—99.)

In a worm driven axle the combination of a differential enclosing casing consisting of an upper and a lower section, said upper section having formed integrally with the upper wall thereof an open-ended transversely extending tubular housing provided with an integral internal flange spaced from its forward end to provide an abutment for the forward bearing of a worm shaft, flanges upon the abutting edges of said upper and lower sections, fastening elements associated with said flanges and serving as the sole means of securing the lower section to said upper section, a differential mechanism maintained in assembled position by said lower section, a

worm shaft mounted within said housing on said upper section and provided with forward and rearward bearings, an annular cover plate removably connected with the forward end of said housing for positioning said forward bearing against said internal flange and a disclike cover plate removably connected with the rearward portion of said tubular housing to provide for access to said rearward bearing.



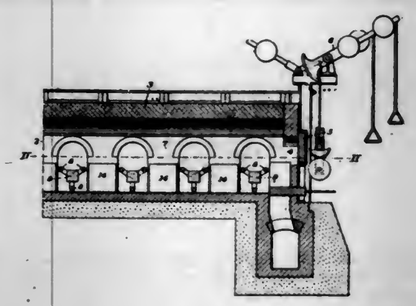
1,460,065. BLAST FURNACE. JULIAN KENNEDY, Pittsburgh, Pa. Filed Jan. 26, 1921. Serial No. 440,083. 8 Claims. (Cl. 202—32.)



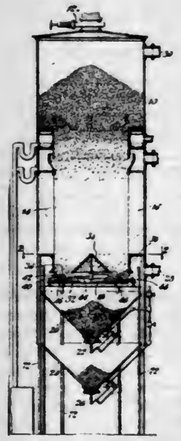
1. The combination with a blast furnace having an iron notch, of a cooler seated in the wall of the furnace directly above and adjacent said notch, and a supplemental cooler seated in said well intermediate said first-mentioned cooler and notch, said supplemental cooler being slightly to one side of the vertical plane of said notch and extending obliquely downward toward the notch, substantially as described.

1,460,066. FURNACE. JAMES H. KNAPP, Edgeworth, Pa., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1920. Serial No. 418,686. 13 Claims. (Cl. 214—18.)

1. Conveyor mechanism for furnaces, comprising a plurality of transversely arranged rotatable conveyor members, each member having a plurality of lifting portions extending transversely of the furnace arranged to successively and intermittently engage the articles to be heated and move them step by step longitudinally of the furnace chamber, and means other than said members for supporting the articles between successive movements thereof, substantially as described.



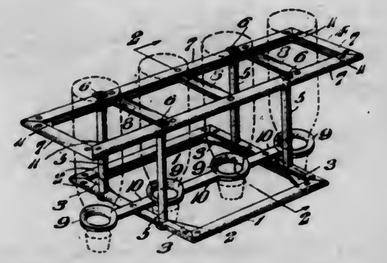
1,460,067. COKE-DISCHARGING APPARATUS. WILBUR G. LAIRD, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y. Filed Nov. 3, 1920. Serial No. 421,441. 11 Claims. (Cl. 202—5.)



10. A coal carbonizing furnace having in combination a gas-tight shell, a support for a column of fuel in said shell comprising an annular plate having its outer edge spaced from the inner face of the shell and arranged to receive fuel discharged from said fuel column, a scraper on said plate, and a pair of separately operated driving means mounted at an angle to one another and connected with said scraper to simultaneously operate on said scraper for imparting a discharging movement thereto.

1,460,068. CRATE FOR BOTTLE-CLEANING MACHINES. BENJAMIN E. LINFOOT, Philadelphia, Pa. Filed Dec. 15, 1920. Serial No. 431,035. 5 Claims. (Cl. 141—7.)

1. In a bottle holding crate of the character stated, a base formed of side bars of channelled form with fillets at the corners thereof, said fillets being seated in the channels of said side bars and secured thereto, and a socket on said base adapted to receive the neck of an inverted bottle and firmly and steadily sustain the same thereon.



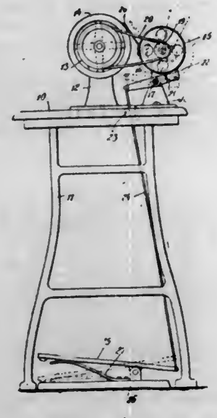
1,460,069. CONSTRUCTION AND REPAIR OF RAILROAD CARS. ANDREW M. MCGILL, Bethlehem, Pa. Filed Mar. 15, 1922. Serial No. 543,998. 6 Claims. (Cl. 105—397.)



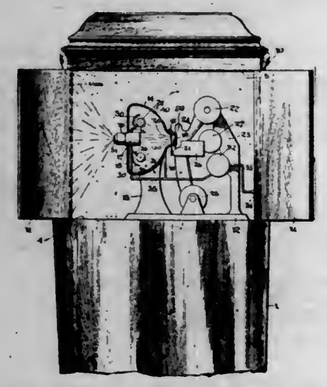
6. A car construction comprising sheathing formed in upper and lower sections, the abutting extremities thereof being cut or formed along an angle extending downwardly and outwardly from the car, and a metal flashing extending between the abutting ends of the upper and lower sections of the sheathing.

1,460,070. MOTOR DRIVE FOR SEWING MACHINES. HYMAN MAIMIN, New York, N. Y. Filed Dec. 29, 1919. Serial No. 348,027. 6 Claims. (Cl. 74—26.)

1. In a sewing machine mounted upon a table and provided with a driving wheel, the combination of a pedestal adapted to be attached to the table of the machine, a motor mounted to swing about an axis on the pedestal and be held in operative relation to the wheel of the machine by its own weight, a lever mounted on the pedestal and formed at one end to engage the motor, and means for automatically actuating the lever to bring its end into engagement with the motor to lift the same out of operative relation to the wheel of the machine.



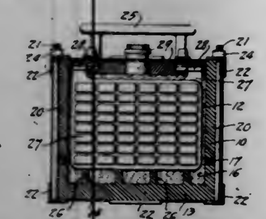
1,460,071. MOTION-PICTURE CABINET. ARTHUR GATES MERRIMAN, Columbus, Ohio. Filed Feb. 14, 1922. Serial No. 536,483. 2 Claims. (Cl. 88—24.)



1. In a cinematographic apparatus, a cabinet casing having a translucent panel in the walls thereof, a substantially hemispherical lamp projector casing supported within said compartment with the larger end thereof facing the translucent panel, said lamp casing being closed at its larger end by an integral wall having an axial opening formed therethrough and having an elongated integral neck portion at its smaller end in axial alinement with the opening through the larger end thereof, said neck portion having vertically alined slots through its walls, adjacent to its extremity and having an additional slot through its walls in parallel relation to the plane of the first slots and between the latter and the body of the lamp projector casing, an edgewise swingable shutter working in said second slot, means for feeding opaque picture ribbon through said first slots to expose portions of the latter within the neck portion of the casing, a mirror disposed transversely of the neck portion of the casing at the extremity of the latter and in confronting relation to said translucent screen, an incandescent lamp disposed within

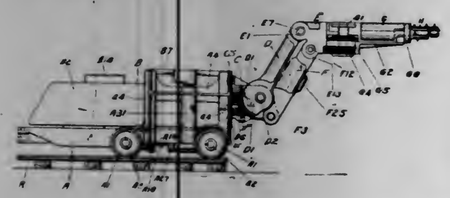
the casing for projecting rays of light upon the exposed portion of picture ribbon, and means for operating said ribbon feeding means and said shutter to feed said ribbon through said neck portion of the casing and to alternately prevent and permit rays of light from the incandescent lamp to strike the exposed portion of ribbon.

1,460,072. STORAGE BATTERY. JACK D. MINTZ, New York, N. Y. Filed Oct. 11, 1922. Serial No. 593,745. 2 Claims. (Cl. 204—29.)



2. In combination, a rectangular frame having partitions dividing the same into a plurality of compartments, a base having its lower end closed and similarly divided into compartments, a gasket arranged between the frame and base and embodying portions extending between adjacent ends of the compartment walls, and clamping elements engaging the upper surface of the frame and the lower surface of the base to compress the base and frame upon said gasket, said base and gasket being provided with aligned slots through which said clamping elements extend.

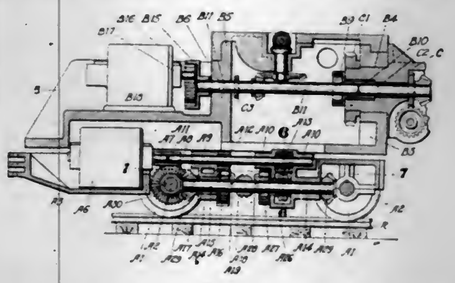
1,460,073. MINING AND QUARRYING MACHINE. CYRUS S. OLDROYD, Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn., a Corporation of Tennessee. Filed May 3, 1917, Serial No. 166,172. Renewed Dec. 11, 1922. 138 Claims. (Cl. 262—25.)



1. In a machine of the nature described, the combination of a cutting mechanism supporting means having a neck seated rotatably in a bearing, an elongated cutting mechanism hinged to said support to permit movement of said mechanism toward and from the axial line of said neck parallel to said axial line, and transmission means extending through said neck for actuating said cutting mechanism, substantially as described.

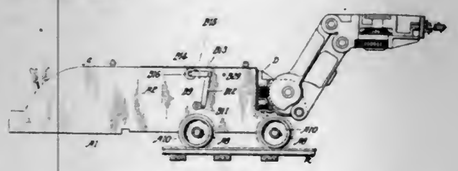
1,460,074. MOTOR-DRIVEN TRUCK. CYRUS S. OLDROYD, Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn., a Corporation of Tennessee. Original application filed May 30, 1917, Serial No. 166,172. Divided and this application filed May 16, 1919, Serial No. 297,501. Renewed Dec. 11, 1922. 3 Claims. (Cl. 105—117.)

1. In a truck of the nature described, the combination of carrying wheels, axles on which said carrying wheels are mounted, a first shaft transverse to said axles, gearing connecting said shaft to one of said axles, a motor, a second shaft driven by the motor and located parallel to the first mentioned shaft, a third shaft transverse to the first and the second shafts, and worm gearing connecting the first shaft to the third shaft and the



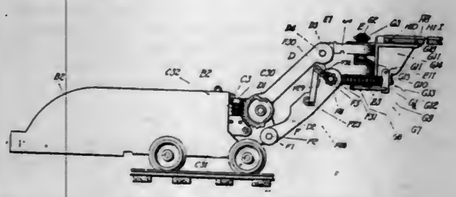
third shaft to the second shaft for reduction of velocity from the second shaft to the first shaft, substantially as described.

1,460,075. MINING AND QUARRYING MACHINE. CYRUS S. OLDROYD, Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn., a Corporation of Tennessee. Filed June 3, 1919, Serial No. 301,478. Renewed Dec. 11, 1922. 18 Claims. (Cl. 262—25.)



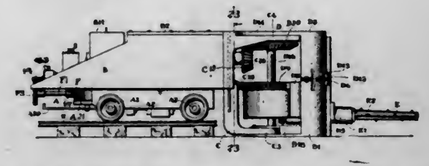
1. In a machine of the nature described, the combination of cutting mechanism and a truck supporting the cutting mechanism, the truck comprising carrying wheels, axles on which said carrying wheels are mounted, a first shaft, gearing connecting said shaft with one of said axles, two gear members loosely surrounding the first shaft, a second driven shaft, means for constantly transmitting motion from said second shaft to one of said gear members, means comprising ratchet mechanism for constantly transmitting motion from one of said members to the other of said gear members, and clutch mechanism slidable on the first shaft for engaging either of said members to compel the rotation of the first shaft, substantially as described.

1,460,076. MINING AND QUARRYING MACHINE. CYRUS S. OLDROYD, Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn., a Corporation of Tennessee. Filed July 14, 1919, Serial No. 310,817. Renewed Dec. 11, 1922. 63 Claims. (Cl. 262—30.)



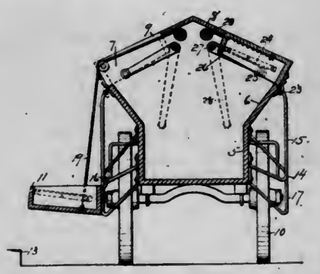
12. In a machine of the nature described, the combination with a neck structure having a neck seated in a horizontal bearing, a head, a tool support hinged to said head on an axial line which is transverse to the length of the machine, and cutting mechanism on the tool support, of a pair of parallel link members hinged to said neck structure and said head by shafts which are parallel to each other and are transverse to the axial line of said neck, a gear member on one of said shafts, power means for rotating said gear member and operator-controlled yielding power transmission mechanism in operative relation with said gear member and the tool support for slowly turning the latter on its axial line for moving the cutting mechanism sidewise for sidewise cutting, substantially as described.

1,460,077. MINING MACHINE. CYRUS S. OLDROYD, Cincinnati, Ohio. Filed Jan. 8, 1921. Serial No. 435,821. 50 Claims. (Cl. 262—25.)



1. In a machine of the nature described, the combination of a body turnable horizontally, means for turning said body, a rotatable neck which is horizontal and parallel to the machine body, means for actuating said neck, a cutting tool, members supported by said neck and comprising a pair of parallel rotatable screws for supporting said tool on said neck for movement on the neck toward and from the axial line of the neck, and means for actuating said cutting tool, substantially as described.

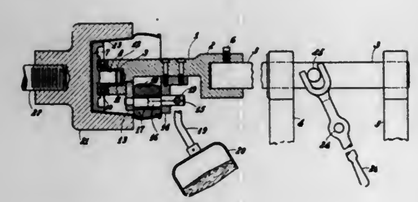
1,460,078. REFUSE-COLLECTING WAGON. JAMES PULLAR, Hartford, Conn. Filed Sept. 10, 1920. Serial No. 409,306. 6 Claims. (Cl. 214—67.)



1. In combination with a wagon body closed on all sides but open at the top for substantially its whole length, a shallow tray closed on all sides but open at the top, means for supporting the tray in a lowered position for the emptying of refuse thereinto from receptacles at different points along its length and dumped from said receptacles by tipping them over the upper edge of said tray, and means for raising the tray and for inverting it over the top of said wagon body to dump said refuse into said body along its whole length.

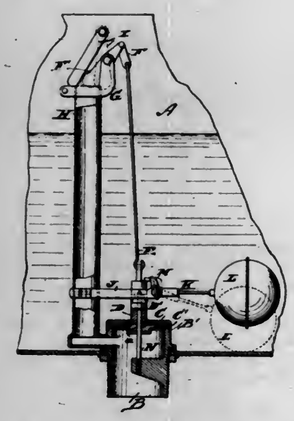
1,460,079. EXPANDING ROLLER TOOL. ROBERT FLOYD SALISBURY, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1922. Serial No. 541,240. 4 Claims. (Cl. 113—52.)

1. An expanding tool comprising a chuck, a body provided with a center plate mounted in the body and adapted to cooperate with the chuck to hold an article operated upon, a stub shaft journaled in the body having an eccentric portion, an expanding roller rotatably



mounted on the said eccentric portion, and means for rotating the shaft to move the roller towards and from the axis of said body.

1,460,080. FLUSH VALVE. WILLIAM SHERWOOD, Detroit, Mich. Filed July 1, 1920. Serial No. 393,282. 2 Claims. (Cl. 4—5.)



1. In a device of the character described an overflow pipe carrying spaced brackets thereon composed of laterally extending arms, a substantially inverted V-shaped bell crank having one arm pivoted to the said bracket and carrying a link on the other arm, a lever carrying a roller at one end connected to the bell crank at the point of intersection of the said arms and extending below the pivot point of the same to the bracket, a vertically sliding valve carried by the lower bracket and connected to said link, and a rocker arm contacting with the lever whereby the valve is elevated.

1,460,081. TOWEL HOLDER. GEORGE A. SOMMERS, Marshfield, Wis. Filed Feb. 7, 1920. Serial No. 356,853. 1 Claim. (Cl. 24—264.)

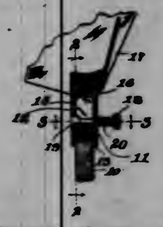
A holder consisting of a length of wire folded upon itself to provide clamping legs substantially throughout and of unequal length with the shorter leg at its free end diverging from the longer leg, the longer leg terminating in a ring by means of which the holder may be pivotally suspended from a support, the short leg terminating below said ring whereby a space is provided between the same and the support by the greater length of the other leg so that said suspending means and ring will not obstruct the attachment of an article to the

holder, the connected end of the legs being lowermost an outwardly extending eye at the free end of the



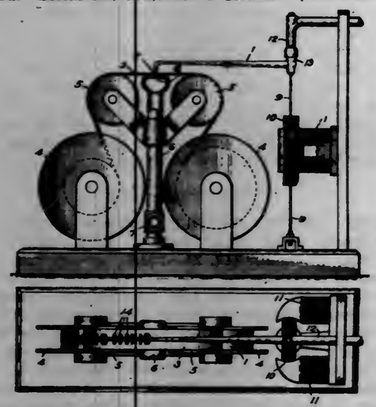
shorter leg, and said legs being spaced apart to enable a suspended article to be wrapped about the holder a plurality of times.

1,460,082. SEPARABLE HEADREST. GEORGE W. SPAHR, Mechanicsburg, Pa. Filed June 17, 1922. Serial No. 569,088. 4 Claims. (Cl. 155—174.)



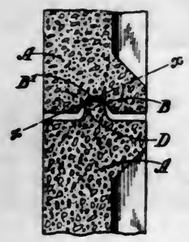
1. The combination of two separable members comprising a post and a socket, the post having a slot through its entire width and a countersink, means for releasably securing said members comprising a transversely extending push pin adapted to slide vertically and transversely through said slot, said pin having a head adapted to be partially seated in said countersink and in a depression in the adjacent wall of the socket.

1,460,083. RECORDING SIGNAL. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 27, 1921. Serial No. 524,939. 7 Claims. (Cl. 17.8—88.)



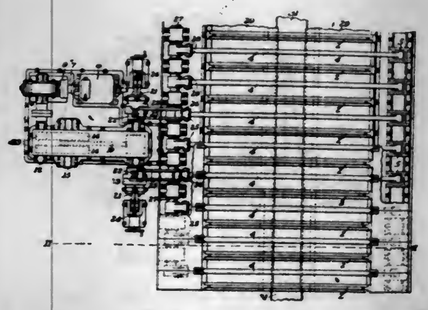
1. A signal recording apparatus comprising a porous strip carrying a material which when exposed to the action of a suitable reagent will change in color, means for moving said strip past an orifice, means for producing from said orifice a jet of gas which will produce a change in color of the material on said strip and means for moving the jet in response to a signaling current.

1,460,084. BUILDING BLOCK. JOHN EDWARD WALLIS, Rickmansworth, England. Filed May 6, 1922. Serial No. 558,946. 5 Claims. (Cl. 72—38.)



1. A building block having horizontal and vertical jointing faces, one of each of said faces having a tapering channel extending substantially the full length thereof, the remaining faces having a centrally disposed rib, each of the latter being provided with a nib adapted to fit within the bottom of the channel of the next adjacent block.

1,460,085. APPARATUS FOR SHAKING OUT CASTINGS. HARRY C. WATSON, Canton, Ohio. Filed May 22, 1920. Serial No. 383,392. 10 Claims. (Cl. 22—94.)

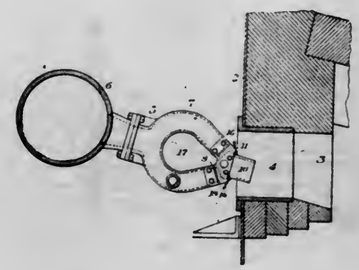


1. Apparatus for shaking out castings, comprising a table having a series of spaced fixed bars, and a series of alternating vertically movable bars, together with actuating connections for the movable bars, said connections being operative to produce a positive raising of the movable bars and then inoperative to permit a substantially true gravity drop thereof independently of further movement of said connections, substantially as described.

1,460,086. GAS BURNER. HENRY T. WATTS, Youngstown, Ohio. Filed July 23, 1920. Serial No. 398,399. 15 Claims. (Cl. 158—99.)

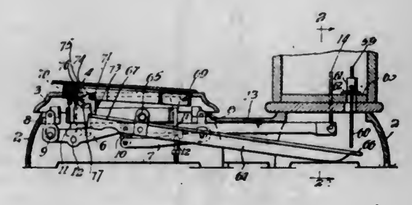
1. A gas burner, comprising two convergingly-directed laterally long gas nozzles, a pipe between the gas streams issuing from the nozzle and serving as a deflector, said

pipe having orifices through which a gaseous medium may be discharged at high pressure if desired to assist



the flow of gas, and a mixing chamber into which the gas together with air is discharged, substantially as described.

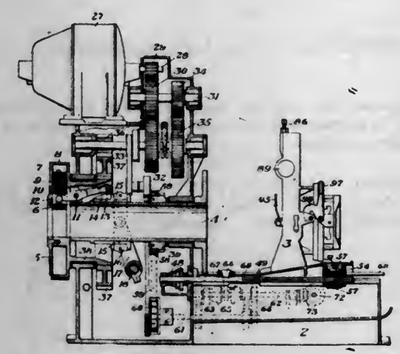
1,460,087. AUTOMATIC SCALE. MATHIAS J. WEBER, Chicago, Ill., assignor to Continental Scale Works, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1920. Serial No. 412,961. 8 Claims. (Cl. 265—68.)



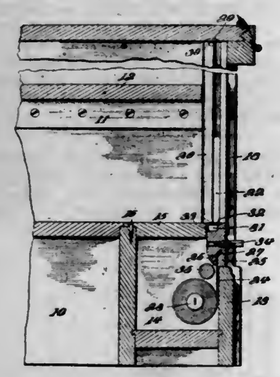
1. The combination with a platform scale, of a member to be moved, a platform upon which the weight is placed, scale levers upon which the platform is supported, means yieldingly holding the platform in elevated position relatively to the levers, an operating lever pivotally mounted between its ends upon the platform, one end of the operating lever arranged to contact with said member for moving same, means carried by the platform for engaging said lever to move the same on its pivot for moving said member as the weight is applied to the platform, and means for automatically releasing the lever when the lever has performed its function, the operating lever being adapted to drop free of said member when released.

1,460,088. PIPE CUTTING, ROUNDING, AND THREADING MACHINE. EDGAR H. WILSON, Chartiers Township, Allegheny County, Pa., assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa., a Corporation of Pennsylvania. Filed June 7, 1920, Serial No. 387,246. Renewed May 4, 1922. Serial No. 558,425. 27 Claims. (Cl. 29—33.)

1. In a machine of the class described, a barrel, means co-operating therewith for gripping the material being operated upon, means for rotating said barrel, a movable threading die, and a plurality of independently operable means driven by said barrel, rotating means for positively advancing said die, one of said means being effective for also retracting said die, substantially as described.



1,460,089. DUST-EXCLUDING DEVICE FOR SHELVING. ALBERT M. WOLTZ, Baltimore, Md., assignor, by mesne assignments, to Leon W. Himmel, Isador Himmel, and Jeannette Himmel, copartners, trading as M. L. Himmel & Son, Baltimore, Md. Filed Dec. 11, 1918. Serial No. 266,240. 3 Claims. (Cl. 211—27.)



1. In a dust excluding structure for store furniture the combination of shelving consisting of a display portion and a supporting base, said base having an opening in the front portion thereof, a spring actuated roller mounted within the normally useless space enclosed by said base, a dust excluding curtain connected at one end to said roller and extended through said opening, a lifting block secured to the other end of the curtain and closing said opening when the curtain is in rolled condition, means carried by the display portion for guiding said lifting block, and means at the top of the display portion for engaging said lifting block to hold the curtain extended over said display portion.

1,460,090. DEFORMED BAR. GEORGE BARBR, Coraopolis, Pa. Filed July 22, 1919. Serial No. 312,494. 4 Claims. (Cl. 72—111.)

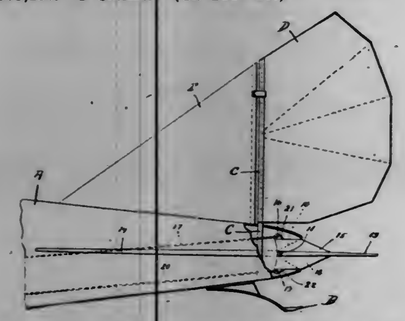
1. A reinforcing bar for concrete having portions thereof square in cross section, successive portions also square

in cross section and turned at 45° to the first portions, and transition portions between said square sections,



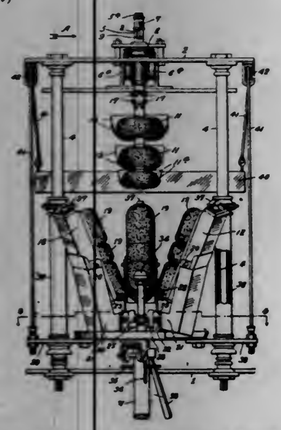
said transition portions being octagonal in cross section and of substantially the same area in cross section as the square portions.

1,460,091. ELEVATOR CONTROL. ERROLD G. BAHL, Lincoln, Nebr. Filed July 15, 1922. Serial No. 575,157. 4 Claims. (Cl. 244—29.)



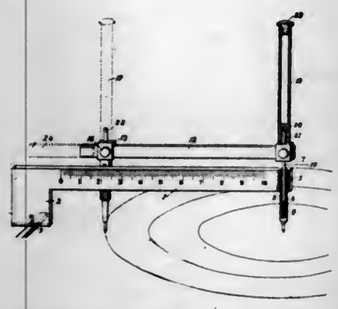
4. In an aeroplane including a fuselage, and a rudder post journaled through the rear end thereof and carrying a rudder, a transverse shaft secured at the rear end of the fuselage to the rear of the rudder post, an elevator formed in one piece pivoted upon said shaft, horns extending from the upper and lower surfaces of the elevator out of alignment with the rudder post, and control wires connected with the extremities of said horns and contained entirely within the fuselage.

1,460,092. APPARATUS FOR DRYING AND POLISHING GLASSES AND ANALOGOUS ARTICLES. HENRY ALFRED COLE, Weston-super-Mare, England. Filed Mar. 21, 1921. Serial No. 454,197. 3 Claims. (Cl. 15—101.)



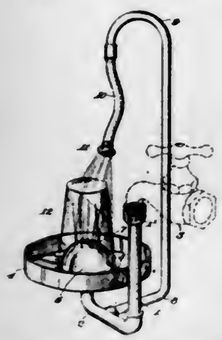
1. A glass drying and polishing machine comprising an internal polisher, a non-rotatable external polisher having a series of pivoted arms provided with polishing surfaces, means for rotating said internal polisher, and means for moving said external polisher axially relative to the internal polisher.

1,460,093. DEVICE FOR DRAWING CIRCLES. NICOLAS BASILE COSTOVICI, Lausanne, Switzerland, assignor to American Nicovici Drawing Instruments Corporation, New York, N. Y., a Company of Delaware. Filed Aug. 28, 1920. Serial No. 406,616. 7 Claims. (Cl. 33—27.)



1. In a device for drawing circles, the combination with a bar, of a center pin comprising two parts rotatable one relatively to the other about an axis common to the two, and whereof one part is mounted on said bar, an arm carrying the other part, and a marker carried by said arm.

1,460,094. TUMBLER WASHER. PETER CUNNEEN, New Rochelle, N. Y. Filed July 23, 1921. Serial No. 487,032. 1 Claim. (Cl. 141—3.)



A tumbler washer, comprising a tumbler-receiving pan, a water supply pipe connected with the bottom of said pan and supporting the same for supplying water to the interior of the tumbler when positioned inverted in said pan, a flexible depending water supply pipe disposed above said pan for discharging water directively against the exterior of the tumbler, a U-shaped pipe to which said flexible pipe is attached at one end and which has its other end tapped into said pan supply pipe, and a common supply pipe adapted for attachment to and detachment from a water faucet and connected to said pan supply pipe, said faucet supply pipe forming the sole support for said pan supply and flexible pipes.

1,460,095. CIGAR LIGHTER. CHARLES H. CUNO, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Sept. 13, 1922. Serial No. 587,905. 14 Claims. (Cl. 219—32.)

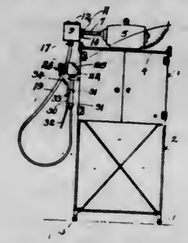
1. In a cigar lighter, an insulating body member having a recessed front end and having a boss at the rear end, said body having a side groove therearound and having longitudinally-extending wire passages from the front

to the rear end, a substantially flat coil of resistance wire positioned in the recess in the front end to form a heater coil, one end of said resistance wire passing to the rear of said body and being electrically connected to a ter-



minal at the end of said boss, said resistance wire being also wound about said body and positioned in said side groove to form a resistance coil, and a metallic ferrule fixed on the side of said body, the other end of said resistance wire being electrically connected to said ferrule.

1,460,096. AUTOMOBILE WASHER. HARRY BRYAN DAVIS, Houston, Pa. Filed Nov. 4, 1921. Serial No. 512,861. 3 Claims. (Cl. 15—29.)

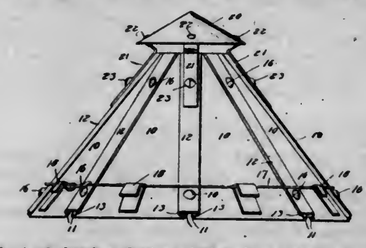


1. In a machine of the character described, a drive shaft, a housing mounted on the shaft to turn freely about the same, a rotatably mounted member adapted to receive a cleaning member, a flexible driving member, driving connections between the flexible driving member and said rotatably mounted member, and driving connections between said shaft and the flexible driving member positioned within the housing and permitting movement of the same about the shaft.

1,460,097. CELLULOSE-ETHER FILM AND COMPOSITION FOR MAKING THE SAME. JOHN M. DONOHUE and EDWARD S. FARROW, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 8, 1923. Serial No. 617,864. 6 Claims. (Cl. 134—79.)

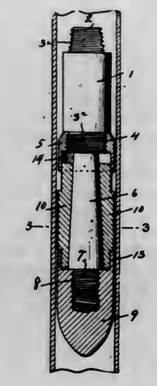
4. A flowable film-forming composition comprising cellulose ether and a high boiling stabilizer capable of maintaining the flexibility of the finished film upon prolonged heating at 65° C., and a volatile liquid comprising a common solvent.

1,460,098. PORTABLE KNOCKDOWN SHELTER. WILLIAM C. HOUSER, Casey, Ill. Filed May 23, 1922. Serial No. 563,096. 4 Claims. (Cl. 108—3.)



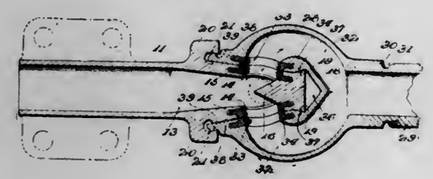
1. A sheltering device of the class described having a hood-shaped body, and spacing means extending therefrom to engage sheltered material to provide a ventilating space.

1,460,099. CASING SPEAR. ELMOND C. IMMEL, Cisco, Tex., assignor of one-half to Edward T. Murray, Eastland, Tex. Filed Sept. 6, 1922. Serial No. 586,527. 4 Claims. (Cl. 294—102.)



1. In a casing spear, the combination with a body provided with a depending axially aligned spindle, said spindle being tapered from its lower end upwardly to the body, a plurality of slips engaging the surface of the tapered spindle, said slips being independently movable by gravity and having upper and lower reduced ends, and means mounted upon the body adjacent the upper and lower ends of the slips and receiving said ends, thereby retaining the slips in position, and yet permitting them to move by gravity into gripping position.

1,460,100. PIPE JOINT. ARTHUR T. KUEHNER, Elkridge, Md. Filed Apr. 12, 1920. Serial No. 373,381. 18 Claims. (Cl. 285—143.)

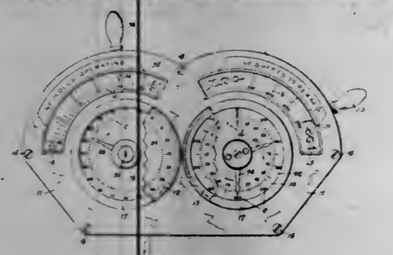


1. A pipe joint including a male member, and a female member straddling the male member and mating therewith, the members being provided with coacting wedging faces, and yieldable means acting upon the members at substantially right angles to the length thereof for urging said faces into wedging engagement.

1,460,101. COUNTING APPARATUS. LOUIS LA VECK, Brooklyn, N. Y., assignor to Simplex Paper Accessories Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 12, 1921. Serial No. 514,461. 11 Claims. (Cl. 235—91.)

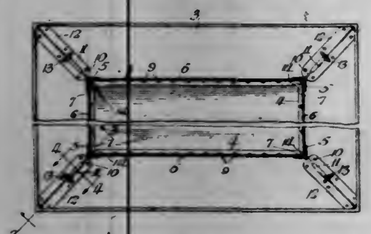
1. A counting mechanism comprising a plurality of counting elements movable in steps corresponding to dif-

ferent numeral units and means whereby any one of said elements may be selectively brought into action and the



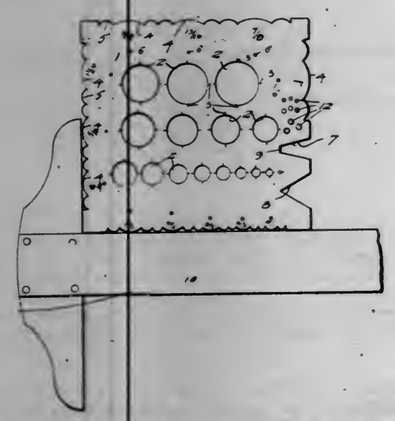
others at the same time rendered inoperative in accordance with changes in the numerical units.

1,460,102. BIRDCAGE CATCH. LEWICKI J. LEON, Chicago, Ill., assignor to L. J. Leon Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed June 8, 1922. Serial No. 566,706. 8 Claims. (Cl. 119—17.)



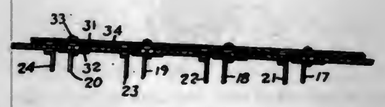
1. A bird-cage, comprising a separable cage-body and pan, both rectangular in shape, said cage-body having corner posts, said pan having a marginal flange surrounding the lower end of the cage-body on the outside thereof, and catch means on said flange at each of the four corners thereof for releasably locking the cage-body and pan together at said corner posts.

1,460,103. COMBINATION SQUARE. DAVID CABRERA LOPEZ, Detroit, Mich. Filed June 9, 1920. Serial No. 387,652. 3 Claims. (Cl. 33—104.)



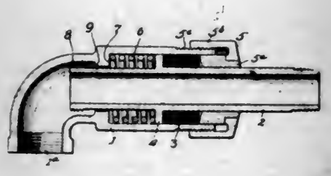
1. A plotter consisting of a generally rectangular body the edges of the body being irregular and having convex portions on arcs of different radii, and the plotter having means representing the centers of said arcs.

1,460,104. ELECTROLYTIC RECTIFIER. ROBERT WELLINGTON MCCLINTOCK and DONALD MCKINNON, Toronto, Ontario, Canada. Filed Aug. 13, 1920. Serial No. 403,266. 2 Claims. (Cl. 175—318.)



1. In a device of the class described, the combination with the rectifier jars, of an insulating cover for the jars, depending stationary electrodes secured to the insulating cover and extending down into the electrolyte in jars, laterally movable electrodes slidably supported on the cover and means for actuating the movable electrodes in unison.

1,460,105. SWING JOINT. ERNEST J. MALONE, Chicago, Ill., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill., a Corporation of New York. Filed Mar. 7, 1921. Serial No. 450,311. 2 Claims. (Cl. 285—124.)



1. A packed telescoping and revolving pipe joint, comprising an inner pipe member and a surrounding pipe member; said pipe members being provided with axially interlocking integral enlargements constructed with intermeshing screw threads upon their opposed circumferential faces and adapted to be screwed one past the other in the assembly of the joint and constitute abutting shoulders which resist axial disassembly of the members.

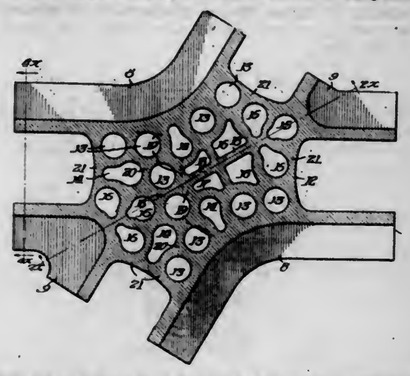
1,460,106. ELECTRIC-FURNACE MELTING OF MANGANESE SCRAP. WESLEY G. NICHOLS, Chicago, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 27, 1921. Serial No. 510,960. 4 Claims. (Cl. 219—64.)

1. The improvement in the process of melting manganese steel, which consists in charging the steel into an electric furnace, and subjecting the same to an electric arc developed by a wattage that, initially, is substantially up to furnace capacity, and continuing such wattage and thereby bringing the mass to molten state quickly and before oxidation materially depreciates the manganese content.

1,460,107. CAST-STEEL RAILWAY-TRACK MEMBER. WESLEY G. NICHOLS, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed July 28, 1922. Serial No. 578,043. 8 Claims. (Cl. 246—454.)

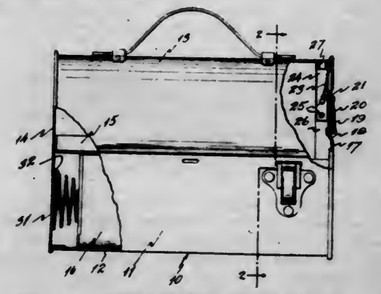
2. A cast steel track member having upon its under side an integral sustaining mass underlying substantially the entire area of the member, and having said mass formed with a plurality of isolated recesses subdividing

the mass into variously directed reinforcing walls, some of which underlie longitudinal lines of tread portions



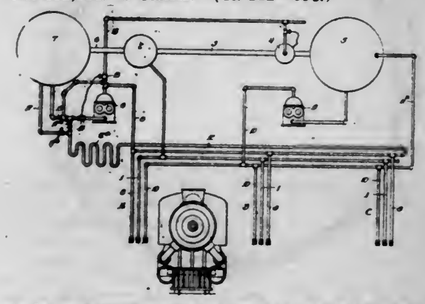
of the track member while others extend transversely thereof.

1,460,108. LUNCH KIT. JOSEPH G. NIKART, Virginia, Minn. Filed June 12, 1922. Serial No. 567,611. 1 Claim. (Cl. 206—4.)



A lunch kit comprising an outer shell, a container fitted into the outer shell, a handle for withdrawing the container from the outer shell, means connected with the handle and actuated upon movement thereof into withdrawing position to unlock said container within the shell, auxiliary locking means to hold the device in assembled position, and means for urging the container out of the shell when the locking means is released and said handle raised.

1,460,109. TEMPERATURE CONTROL FOR BOILER-WASHOUT SYSTEMS. SPENCER OTIS and FRANK S. WICHMAN, Chicago, Ill. Filed July 7, 1921. Serial No. 482,884. 3 Claims. (Cl. 122—396.)



1. In a boiler washing system, a washout tank, a washout line, a pump feeding water from said tank

to said line, a return flow pipe leading from said line, and controllable pipes leading from said return flow pipe, respectively, to the suction side of the pump and to said tank.

1,460,110. PROCESS FOR RECOVERING CATALYST FROM CATALYSIS RESIDUE. ERNEST V. OWEN, Chicago, Ill., assignor to The Hoover Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1922. Serial No. 540,768. 10 Claims. (Cl. 23—13.)

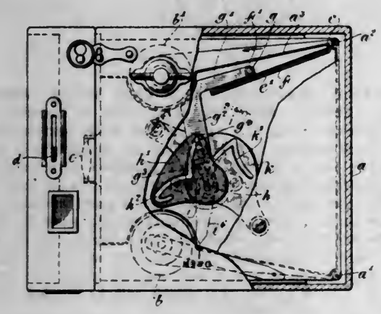
1. The improvement in the art of recovering aluminum chloride from hydrocarbon with which it has combined in the process of catalyzation, which consists in impinging the mixture of hydrocarbon and aluminum chloride while still in a fluid state, against a surface maintained at a temperature sufficient to volatilize the aluminum chloride while permitting hydrocarbon to settle out, and recovering the volatile thus released.

1,460,111. BADGE OR INSIGNIA. WILLIAM L. PANIKOFF, New Haven, Conn. Filed Feb. 27, 1922. Serial No. 539,367. 1 Claim. (Cl. 40—1.5.)



A badge or insignia comprising a bar formed with a series of panels, each panel formed with slots, and a series of individual insignia plates, each formed with prongs adapted to be passed through said slots, whereby the said plates are individually secured in the said panels.

1,460,112. CAMERA. GUNNAR QUARFOTH, New Rochelle, N. Y. Filed Aug. 4, 1922. Serial No. 579,555. 7 Claims. (Cl. 95—36.)

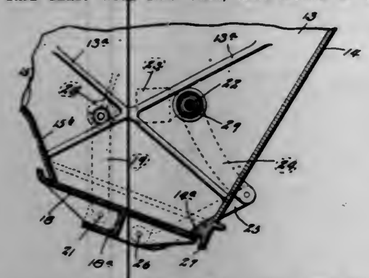


1. In a camera, the combination of a casing, a mask, means to support the mask to swing in the casing, an arm connected to the mask, and cam mechanism for actuating the arm to cause the mask to swing from one position to another.

1,460,113. LOCOMOTIVE ASH PAN. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Cast Steel Locomotive Ash Pan Company, St. Louis, Mo., a Corporation of Delaware. Filed Feb. 4, 1921. Serial No. 442,487. 7 Claims. (Cl. 110—167.)

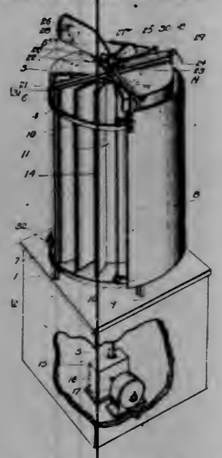
5. A locomotive ash pan provided with a door adapted to close the lower end thereof and supported thereon, an operable shaft journaled in said ash pan and extend-

ing through the interior thereof, means operatively connecting said shaft with said door, and means in said



ash pan enclosing said shaft and provided with an air chamber through which cooling medium may circulate around said shaft.

1,460,114. WIND WHEEL. HENRY D. SHELTON, Hughesville, Mo. Filed Feb. 23, 1922. Serial No. 538,540. 5 Claims. (Cl. 170—15.)



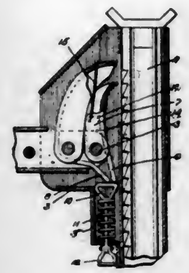
1. A wind wheel comprising a drum having vertical blades, a shaft to which the wind wheel is fastened, a shield pivoted about the axis of the shaft and having a wall part adapted to move about the periphery of the wheel, the shield having a part provided with ratchet teeth, a freely movable vane swinging about an axis in line with the axis of the shaft, and a pawl movable in response to the swinging movement of the vane to ride over the ratchet teeth when the vane moves in one direction and to engage the ratchet teeth when the vane moves in the opposite direction so that when the vane moves in one direction the shield will be shifted with respect to the wheel blades.

1,460,115. REENFORCED-CONCRETE RAILWAY AND THE LIKE SLEEPER. DUDLEY HEPBURN STENT, Delhi, India. Filed Jan. 12, 1923. Serial No. 612,238. 4 Claims. (Cl. 238—117.)



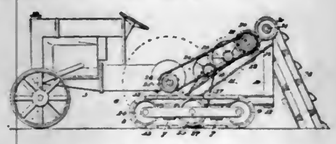
1. In a concrete sleeper pot, a metallic reinforcement including wear plates at the top and bottom of the pot, and a tubular tie bar guide socket exposed at one end only and correlated to and positioned by said reinforcement.

1,460,116. JACK MECHANISM. SAMUEL A. SNELL, St. Louis, Mo., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 14, 1922. Serial No. 536,521. 8 Claims. (Cl. 254—111.)



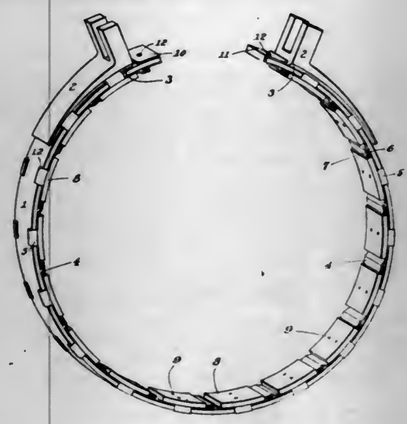
1. In a ratchet jack, a frame, a pair of pawls, a coiled spring connected at one end to one of said pawls, and a link connected at its ends to the other end of said spring and to a fixed point on the frame respectively and having a transverse engagement with the other of said pawls.

1,460,117. TRENCHING MACHINE. DANIEL W. STOOKEY, Cedar Rapids, Iowa. Filed June 11, 1921. Serial No. 476,770. 6 Claims. (Cl. 37—86.)



1. In combination with a tractor, an excavator, actuating mechanism therefor connecting with and driven by the power plant of the tractor, and a supporting and carrying frame for the excavator detachably connected with the tractor.

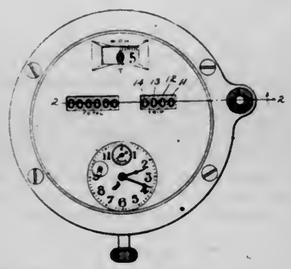
1,460,118. LINKED BRAKE-BAND LINING. ALVIN H. SWEET, Los Angeles, Calif., assignor of one-third to Charles A. Sweet and one-third to Charles R. Twitchell, both of Los Angeles, Calif. Filed July 27, 1922. Serial No. 577,935. 5 Claims. (Cl. 188—259.)



5. In combination, a brake band; a lining comprising a plurality of flexibly connected sections, said sections

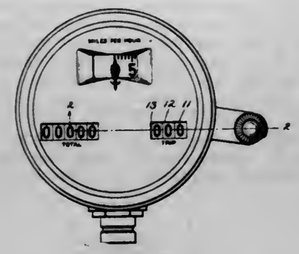
being adapted for mutual disengagement by transverse sliding; end clips adapted for transverse sliding engagement with said sections; means for aligning said sections within said band; and means for removably attaching said clips to said band.

1,460,119. RESETTING MEANS FOR COUNTERS. GEORGE W. TONEY, Waltham, Mass., assignor, by mesne assignments, to Old Colony Trust Company, a Corporation of Massachusetts, trustee. Filed Aug. 16, 1917. Serial No. 186,496. 14 Claims. (Cl. 235—144.)



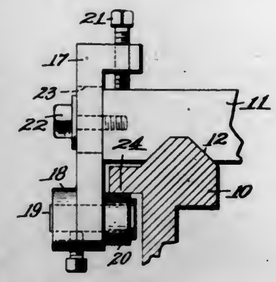
1. The combination in a counter with alined number disks and a driving shaft co-axial with said disks and disconnectibly connected to one of them, of a re-setting device comprising a stem at an angle to the axis of the disks which is movable both axially and rotatably, mechanism operated by axial movement of said stem for disconnecting said disconnectible disk from the said shaft, and mechanism operated by rotation of said stem for turning said disk.

1,460,120. RESETTING MEANS FOR COUNTERS. GEORGE W. TONEY, Waltham, Mass., assignor, by mesne assignments, to Old Colony Trust Company, a Corporation of Massachusetts, trustee. Filed Aug. 16, 1917. Serial No. 186,497. 6 Claims. (Cl. 235—144.)



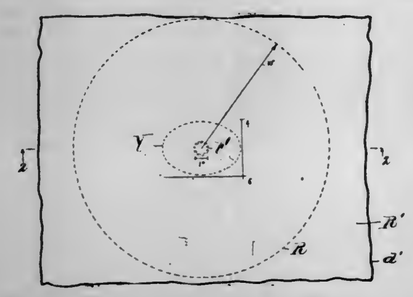
2. The combination with number-exhibiting disks and a drive shaft, of a clutch member connected to said drive shaft, a complemental clutch member connected to said unit disk in a manner permitting axial displacement, a rotatable and endwise movable setting device, intermeshing gears connected to said device and said unit disk for rotating the latter when the setting device is rotated, and a pusher engaged with said device and movable by endwise movement thereof to disconnect the second named clutch member from the first named clutch member.

1,460,121. LATHE-CARRIAGE ATTACHMENT. JOHN J. WITT, Winchendon, Mass., assignor to Goodspeed Machine Company, a Corporation of Massachusetts. Filed Oct. 29, 1919. Serial No. 334,223. 1 Claim. (Cl. 142—1.)



In a lathe, in combination, a carriage, a support on which said carriage is slidably mounted, rollers engaging an under surface of said support to prevent upward movement of said carriage relatively to said support, brackets for said rollers mounted on the side of said carriage for vertical adjustment thereon, said brackets each having an upward offset extension with a screw threaded therein and engaging a horizontal upper surface of said carriage for moving said bracket upward, and additional means to clamp said brackets in adjusted position against the side of said carriage.

1,460,122. PHOTOGRAPH AND METHOD OF MAKING THE SAME. ADELBERT AMES, Jr., Tewksbury, Mass. Filed Jan. 12, 1920. Serial No. 351,012. 13 Claims. (Cl. 95—5.)

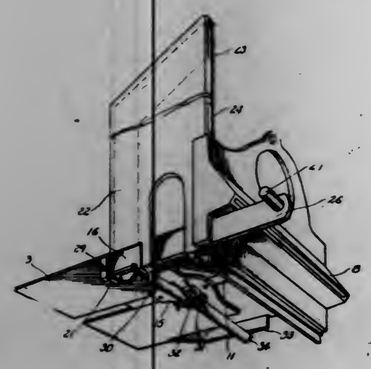


1. A photograph having a region depicted with maximum effect upon the photo-sensitive surface by one color of light and having other regions depicted with maximum effect upon the photo-sensitive surfaces of another color of light, the picture being formed by polychromatic light.

1,460,123. VENDING MACHINE. MELVILLE B. BAIRD and GEORGE A. WALLS, Kansas City, Mo.; Albert H. Steele, administrator of said Melville B. Baird, deceased; said administrator and said Walls, assignors, by direct and mesne assignments, to J. C. W. Bland, Tulsa, Okla. Filed Jan. 5, 1920. Serial No. 349,475. 1 Claim. (Cl. 194—80.)

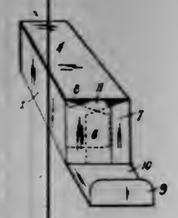
In combination, an article container, a reciprocatory ejector, a coin receiver carried by the ejector, an ejector actuator having a part to abut against the coin receiver, depending lugs adjacent to the coin receiver and spaced

apart to provide guides, a pivoted member having one end weighted and the other end movable between the lugs



and normally lying in a position to obstruct the passage of a coin through the coin receiver, and means for tilting the pivoted member to release the coin.

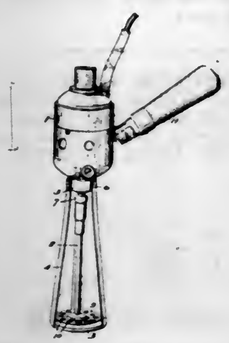
1,460,124. CARTON. FRANK E. BEAM, Toledo, Ohio, assignor, by direct and mesne assignments, to The Automat Molding and Folding Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 7, 1920. Serial No. 415,306. 4 Claims. (Cl. 229—38.)



1. A carton having an inner flap and an outer flap projecting from adjacent ends of adjoining sides and adapted to lap each other when in folded relation, the outer flap having a tongue at its outer end for insertion into the carton body over a side edge of the inner flap, and said inner flap having a tongue at the side edge thereof which is lapped by the outer flap tongue and which coacts therewith to retain the carton sides in folded relation.

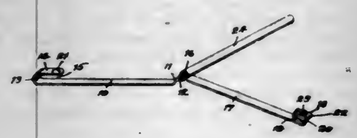
1,460,125. HOUSEHOLD MIXER AND BEATER. GEORGE B. COLEMAN, San Francisco, Calif., assignor to Majik Electric Appliance Company, a Corporation of California. Filed May 16, 1922. Serial No. 561,535. 3 Claims. (Cl. 259—122.)

1. In a household device, a source of motive power, a shaft extending from the source and adapted to be rotated thereby, and means for supporting said device in a substantially upright position for operation comprising a plurality of strips each attached at one end to the source of power, and a member attached to the other ends of the strips, the strips and said member forming a



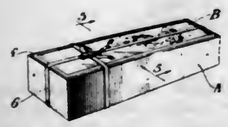
substantially symmetrical arrangement about the extending shaft, and having an axis of symmetry substantially coinciding with the axis of the shaft.

1,460,126. HAIR CRIMPER. JOHN F. DONNELLY, North Plainfield, N. J. Filed June 26, 1922. Serial No. 570,821. 5 Claims. (Cl. 132—41.)



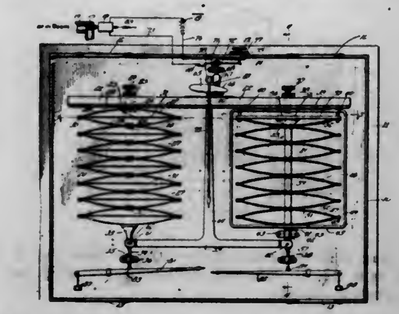
1. A hair crimper, comprising a jaw member, a second jaw member having one of its ends pivoted to one of the ends of the first mentioned jaw member so that both members may be swung to and from each other in spaced parallel arrangement, complemental clamp members on the second ends of both jaw members for releasably fastening both jaw members together, and a third jaw member having one of its ends pivotally held to the pivot of the pair of jaw members so that the third jaw member may be swung to and from lapping position on the second jaw member as well as being detachably engageable by the clamp member of said second jaw member.

1,460,127. BOX FOR CANDY OR THE LIKE. JESSE K. FARLEY, Jr., Kenilworth, Ill. Filed Sept. 30, 1921. Serial No. 504,517. 4 Claims. (Cl. 229—8.)



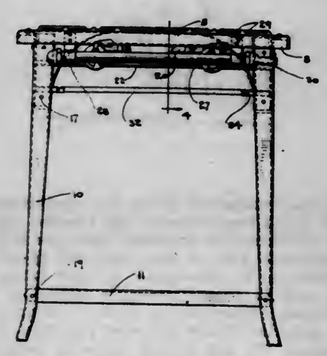
1. In combination, a box open at the top, a tray arranged loosely in the box and resting on the bottom thereof, the tray being slightly shallower than the box, and a cover in the form of a framed picture fitting loosely into the top of the box and resting on the tray.

1,460,128. HYDROTHERMOSTATIC SYSTEM. EARL V. HILL, Chicago, Ill. Filed Mar. 29, 1920. Serial No. 369,527. 6 Claims. (Cl. 236—44.)



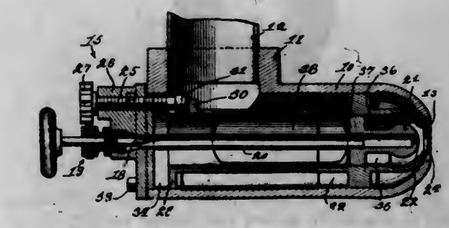
3. The improvement in the art of heating buildings, which consists in maintaining the wet-bulb temperature substantially uniform under varying conditions of humidity.

1,460,129. COMBINED HOT PLATE AND LAUNDRY STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed June 6, 1921. Serial No. 475,501. 11 Claims. (Cl. 126—40.)



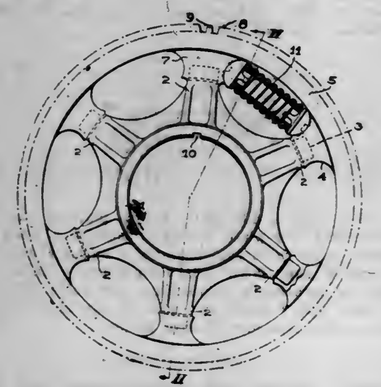
1. A combined hot plate and laundry stove comprising a frame, a pair of supporting members at the opposite ends of said frame and secured directly to the under side thereof, each of said members providing two angular supports, and a pair of legs angular in form and detachably secured to each of said supports, said legs being adapted to fit over the corners of said supports.

1,460,130. LIQUID-FUEL BURNER. GEORGE W. HOFMANN, Chicago, Ill. Filed Oct. 10, 1919. Serial No. 329,808. 6 Claims. (Cl. 158—76.)



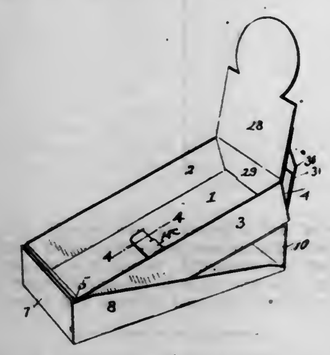
1. In a liquid fuel burner, in combination, a large nozzle, a small nozzle inside said large nozzle slidable along the axis of said large nozzle, an axially located head adapted to discharge a liquid, means for sliding said small nozzle into a position closing said large nozzle or into a position adjacent said discharge head whereby said small nozzle is closed by said head and said large nozzle is opened.

1,460,131. FLEXIBLE GEAR. GEORGE H. F. HOLT, Pittsburgh, Pa., assignor to Western Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1921. Serial No. 526,137. 4 Claims. (Cl. 74—29.)



1. A flexible gear comprising a gear hub provided with a plurality of radial spokes projecting therefrom, a gear rim having a plurality of inwardly depending lugs in alignment with said spokes, one of said spokes and one of said lugs being of different shape from the others, said hub and rim having a key seat and gear tooth, respectively, in central alignment therewith.

1,460,132. DISPLAY CARTON. JOHN V. HORR, Cleveland, Ohio, assignor to Albert T. Fischer, Cleveland, Ohio. Filed Oct. 1, 1920. Serial No. 413,976. 11 Claims. (Cl. 206—44.)



2. A display carton comprising a body portion which serves as a container, a cover for said carton, a member hingedly connected to and extending from one end of the cover and hingedly connected to the bottom of the container and extending upon the outside thereof, said

member having a score and being adapted to fold along the bottom and around the end of the container when the cover is in closed position, the container when in open position having an end of the box inserted within the cover adjacent one end thereof, said member having a portion which lies along the bottom of the box and a portion which extends in substantially upright position to support the opposite end of the container and hold the same in inclined position.

1,460,133. LOCK AND LATCH. NORMAN B. HUBD, New Britain, Conn., assignor to American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 4, 1922. Serial No. 592,235. 6 Claims. (Cl. 292—173.)



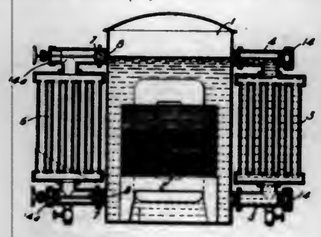
1. In a lock, a side plate, a face plate at one edge thereof, said face plate having a passage, a latch bolt mounted to move in said passage, a separate guide for the tail of said latch bolt comprising a plate, with means for detachably interlocking said guide with said side plate and holding the same at an angle thereto, and a separate latch-retracting means.

1,460,134. DEVICE FOR DETERMINING THE SPECIFIC GRAVITY OF LIQUIDS. JACOB M. JOHLIN, Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y., a Corporation of New York. Filed Oct. 23, 1920. Serial No. 419,146. 1 Claim. (Cl. 265—44.)

A device for determining the specific gravity of liquids consisting of two tubes of unequal length open at one end and adapted to receive at their other ends gas under pressure through constricted openings and a pressure gauge connected between said tubes.

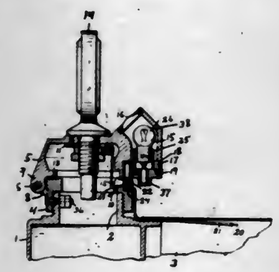
1,460,135. DETACHABLE TRANSFORMER RADIATOR. CARL G. JONES, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,457. 21 Claims. (Cl. 137—21.)

1. A transformer tank and a detachable radiator therefor, said radiator having a plurality of openings in alinement with an opening in said tank, closure means for the opening in said tank and means operable when said



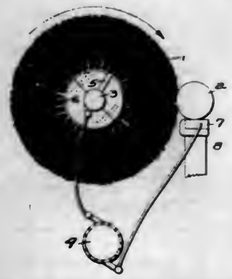
tank and said radiator are operatively connected to remove said closure into said radiator for closing one of the openings therein.

1,460,136. ILLUMINATING DEVICE. CLIFFORD L. LA JEUNESSE, Milwaukee, Wis. Filed Aug. 18, 1921. Serial No. 493,494. 4 Claims. (Cl. 240—2.)



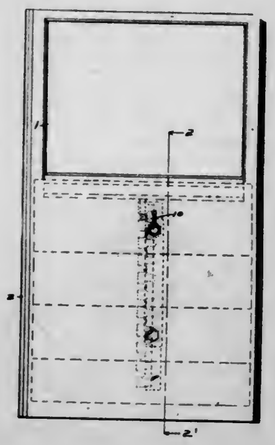
1. In an illuminating device, the combination with a base, of a cap hinged thereto and provided with an object to be illuminated projecting above the cap, the cap being provided with a lamp receiving aperture below the object to be illuminated, a lamp holder secured to the cap, an electric conductor secured to the base and insulated therefrom, an electric conductor secured to the lamp holder and insulated therefrom, and yieldable means for establishing electrical connection between said conductors when the cap is closed.

1,460,137. METHOD OF PLATING METALS. HUBERT A. MYERS, Toledo, Ohio. Filed Mar. 6, 1922. Serial No. 541,304. 15 Claims. (Cl. 219—12.)



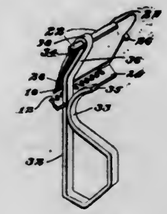
1. The method of metal plating an object, which consists in electrically melting and welding particles of the metal to the surface of the object, and smoothing, by rubbing the surface as the metal is deposited.

1,460,138. WINDOW-LIFTING DEVICE. HUBERT A. MYERS, Toledo, Ohio. Filed Sept. 18, 1922. Serial No. 588,838. 11 Claims. (Cl. 268—4.)



1. In a window lifter, a plurality of members, each of the members having a plurality of engaging elements, means for operating the members to engage and move the window, the elements engaging the window singly and in sequence, and the members by means of their elements successively engaging the window after each engagement of an element of another of the members.

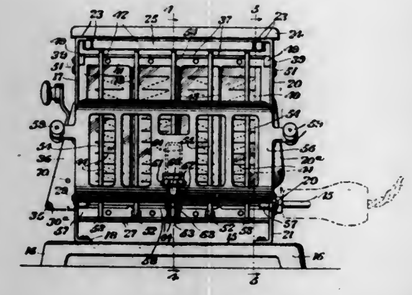
1,460,139. SAFETY RAZOR. CHARLES S. PARKER, Boston, Mass. Filed Apr. 23, 1921. Serial No. 463,812. 13 Claims. (Cl. 30—12.)



1. A safety razor, having a blade; a guard plate, having a guard flange and means to hold the blade when the two are together; and a handle, separable from both and adapted to engage the guard flange and to press together the plate and blade.

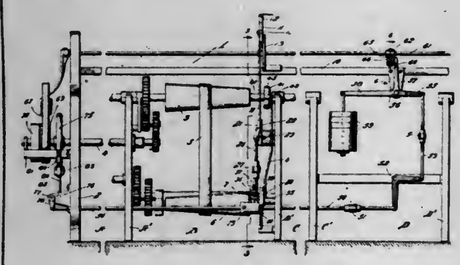
1,460,140. ELECTRIC COOKING DEVICE. MARIUS E. PENSO, New York, N. Y., assignor to National Indicator Company, Long Island City, N. Y., a Corporation of New York. Filed Aug. 9, 1921. Serial No. 490,945. 24 Claims. (Cl. 219—19.)

1. A device of the class set forth comprising a plurality of upstanding electric heating units, a supporting frame for said units, said units and frame forming an



oven heated by said units, and means for supporting slices of bread adjacent the outer sides of said units.

1,460,141. STOP-MOTION MECHANISM FOR FLY FRAMES. GIACOMO PUCCI, Westerly, R. I. Filed Dec. 5, 1922. Serial No. 605,111. 11 Claims. (Cl. 192—8.)

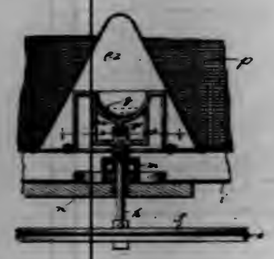


1. In fly frames, the combination of the upper and lower cones of the differential mechanism, a cone belt, a lower cone support pivoted so as to drop on the breaking of the cone belt, a tripping lever adapted to be tripped by the pivoted cone support, and to release the trigger shaft on the breaking of the cone belt, braking means attached to one arm of the tripping lever adapted to brake the upper cone shaft, a trigger shaft, means adapted to forcibly shift the trigger shaft when released by the tripping lever, means connected to the trigger shaft adapted to shift the shipper rod on breakage of the cone belt, and a braking means attached to the driving end of the fly frame connected to the trigger shaft, and adapted on the forcible shifting of the trigger shaft to brake the drive shaft.

1,460,142. CENTRIFUGAL EXTRACTOR. WILLIAM H. ROUSTON, Detroit, Mich.; Grace Duryea Rouston administratrix of said William H. Rouston, deceased. Filed Nov. 26, 1920. Serial No. 426,664. 1 Claim. (Cl. 64—48.)

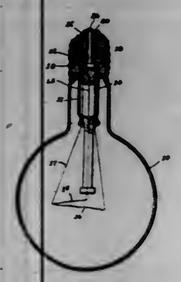
In an extractor of the centrifugal type, the combination with a vat, of a drive shaft extending upwardly through the bottom of the vat, a clutch member in the form of a cup-shaped hub carried at the upper end of said drive shaft, the bottom of said hub provided with an axial depression, a rotatable basket positioned within said vat and having a bottom bent upwardly axially to form a concavity, a clutch plate secured to the bottom of

the basket and extending upwardly interior the concavity and provided with a downwardly convex portion which seats within the hub to form frictional engagement with the side wall thereof to be driven thereby, said con-



vex portion provided with a downwardly projecting axial teat-like member received within the depression in the bottom of the hub to limit the wabble of the basket during rotation.

1,460,143. INCANDESCENT LAMP. LOUIS RYZOWICZ and JOHN J. BOLEK, Cleveland, Ohio. Filed Aug. 6, 1920. Serial No. 401,603. 1 Claim. (Cl. 176—27.)



An electric lamp having a bulb and a base therefor, said base comprising a body of insulating material and a metallic ferrule embracing the insulation, there being a portion of said insulation protruding beyond one end of the ferrule and having a frusto-conical formation, spaced contact members embedded within the insulation on the side of the frusto-conical portion, and a revoluble contact arm having the axis thereof centrally positioned on the base, and having an inclined portion adapted to engage said contacts, said arm providing a contact button adjacent the axis of revolution thereof whereby contact may be made with a centrally disposed contact member in a lamp socket, a plurality of leading in wires passing through the base, each connected to one of the contact members, and a common return wire passing also through the base and connected to the ferrule.

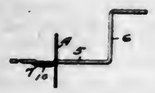
1,460,144. TRAVELER STOP FOR SPINNING RINGS. LITFALLAH G. SABBAG, Boston, Mass., assignor, by mesne assignments, to William W. Miller, Martinsville, Va. Filed June 10, 1922. Serial No. 567,331. 2 Claims. (Cl. 118—69.)

1. A spinning-ring having in connection therewith a traveler-stop permitting the traveler to move undisturbed around the ring during normal spinning but engaging therewith to stop the traveler in a predetermined position



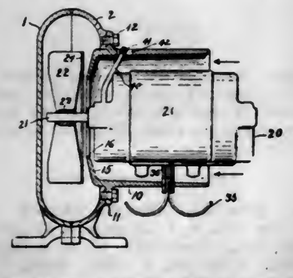
in case of yarn-breakage or stoppage of the spinning-frame.

1,460,145. WHEEL AND SHAFT AND METHOD OF INTERLOCKING SAME. LEONARD A. SEISS, Toledo, Ohio. Filed May 6, 1922. Serial No. 559,047. 2 Claims. (Cl. 29—148.)



2. The process of connecting a sheet metal wheel to a shaft, which consists in bending a central portion of the wheel at right angles to the face of the wheel and bending central portions of the first named portion at an angle to the first named portion and positioning the shaft between the first named portion and the second named portions and forcing a portion of the shaft into the opening formed in the first named portion by bending the second named portions and forcing the second named portions towards each other and against the portion forced in the said opening and causing the ends of the said portions to conform to the parts of the shaft that connect with the portion forced into the said opening with the body of the shaft.

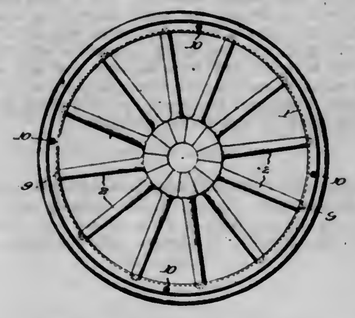
1,460,146. DEVICE FOR AIR COOLING DUSTPROOF FAN MOTORS. MILTON H. SPIELMAN, Cleveland, Ohio. Filed Feb. 8, 1918. Serial No. 216,141. 2 Claims. (Cl. 142—36.)



1. In combination, a motor having a projecting armature shaft, an airtight casing surrounding the motor and

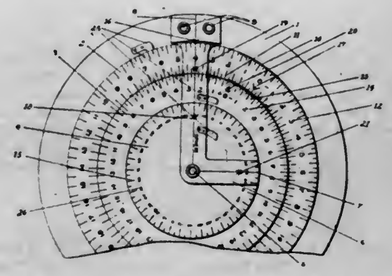
from which the armature shaft projects, a fan on the armature shaft, a tubular casing surrounding the airtight motor casing, the end of the casing adjacent the fan having an inwardly extending flange, and a housing secured to the second mentioned casing and surrounding the fan, a tangential outlet in the housing to provide a blower, said tubular casing fitting within the housing, said flange defining a central opening to the fan for all the air passing through the blower.

1,460,147. METHOD FOR THE MANUFACTURE OF WHEELS. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Original application filed Aug. 13, 1919, Serial No. 317,162. Divided and this application filed Feb. 21, 1921. Serial No. 446,804. Renewed Nov. 25, 1922. 9 Claims. (Cl. 29—174.)



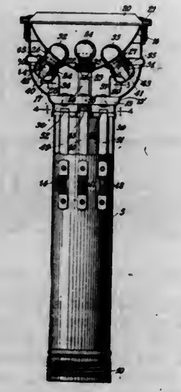
1. A method of wheel manufacture comprising the steps of forming a metallic felloe larger than its finished circumference, forming sockets in the base of said felloe, forming spokes with reduced ends to fit said sockets, assembling the spokes and felloe with the reduced ends of the spokes seated in these sockets and compressing the felloe to form a compact wheel structure.

1,460,148. TRANSPOSITION SCALE. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Feb. 6, 1922. Serial No. 534,443. 9 Claims. (Cl. 235—84.)



1. An index member having different designations for selective indication of points on the different scales, each of the scales having a designation corresponding to the adjacent designation on the index member for cooperation with the readings of the adjacent dial whereby different readings of equal value may be obtained by selection of the figures indicated by corresponding designations.

1,460,149. FLASH LIGHT. EDMUND R. BARANY, Brooklyn, N. Y., assignor to Franco Electric Corporation, a Corporation of New York. Filed July 8, 1922. Serial No. 573,685. 6 Claims. (Cl. 240—8.5.)



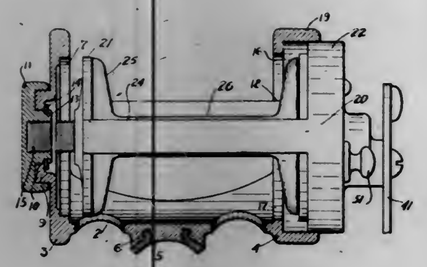
1. A flashlight comprising a casing adapted to receive a source of electrical energy, a reflector associated with said casing, a support arranged at the rear of said reflector, a plurality of lamps associated with said reflector, conductors supported by said suppport and leading individually to said lamps, said conductors cooperating with said lamps to retain said support properly positioned at the rear of said conductor, and means for placing said lamps in circuit with said source of energy through said conductors.

1,460,150. FLASH-LIGHT-BATTERY THRUST CAP. EDMUND R. BARANY, Brooklyn, N. Y., assignor to Franco Electric Corporation, a Corporation of New York. Filed Aug. 14, 1922. Serial No. 581,597. 8 Claims. (Cl. 240—8.5.)



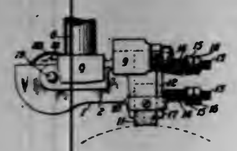
1. A flashlight thrust cap comprising a closure, a resilient thrust element bent intermediate its ends and having a resilient tongue adapted to engage the flashlight battery, said ends being urged into intimate engagement with the wall of said closure by inherent resiliency of said thrust element whereby the same is maintained operatively positioned with respect to said closure.

1,460,151. FISHING REEL. FRANCIS M. CASE, Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 29, 1920. Serial No. 377,654. 26 Claims. (Cl. 242—841.)



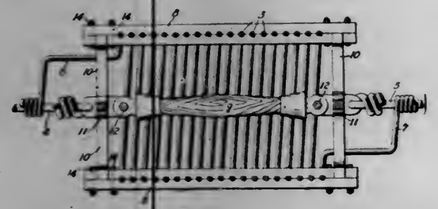
7. A fishing reel, comprising a frame unit having end members and rod attaching means, a spool unit adapted for normal operation of its parts without disconnection thereof when said two units are disassembled, said spool unit including a spool, a supporting frame therefor, and spool operating mechanism, and means for rigidly clamping said units together to prevent lost motion therebetween.

1,460,152. BRUSH HOLDER. JOHN S. DEAN, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 24, 1920. Serial No. 412,421. 7 Claims. (Cl. 171—324.)



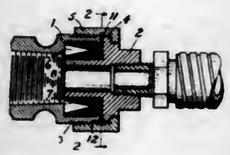
5. A brush-holder provided with a channel, a brush slidably mounted in said channel, a plurality of extensions adjacent to said channel, a plate movably mounted on said extensions, and means for yieldably maintaining said plate in contact with said brushes.

1,460,153. CHOKE COIL. GEORGE C. DILL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,096. 7 Claims. (Cl. 175—360.)



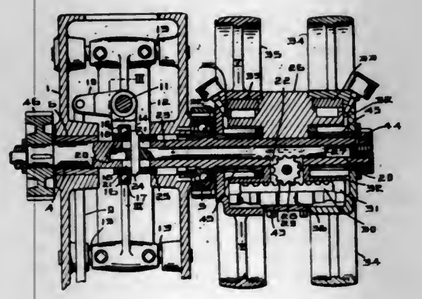
1. A choke coil comprising a strain-resisting insulating member and a coil loosely mounted thereon and surrounding said insulating member to permit bodily movement of the coil with respect to the insulating member.

1,460,154. PIPE COUPLING, JAMES W. FRAZIER and FRED. E. HANSEN, Cleveland, Ohio. Filed Mar. 3, 1921. Serial No. 449,322. 4 Claims. (Cl. 285—122.)



1. In a pipe coupling, in combination, a pair of mating members, a third member carried by one of said members and adapted to receive the other member in engaging relation, and a means inside said third member adapted while the parts are uncoupled to prevent relative displacement between said third member and one of the mating members and adapted when the parts are coupled to prevent accidental unscrewing of said third member from the other of said mating members.

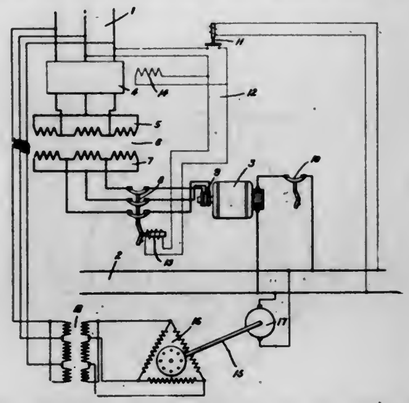
1,460,155. CLUTCH-CONTROL MECHANISM. GEORGE E. HALLENBECK, Toledo, Ohio, assignor to Baker Brothers, Toledo, Ohio, a Firm. Filed Oct. 17, 1918. Serial No. 258,584. 7 Claims. (Cl. 192—48.)



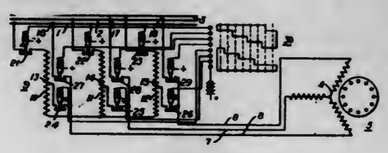
1. A rotary driving member, a split ring for engaging the member, a pair of levers between the ends of the split ring and rockable to spread the ring, a tubular shaft for the driving member, said shaft having a radial opening, a stem reciprocable in the shaft axially of the shaft, and means actuable from the stem and coacting through said opening to engage between the levers for rocking the levers.

1,460,156. AUTOMATIC SUBSTATION. FREDERIC C. HANKER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1918. Serial No. 227,431. 10 Claims. (Cl. 171—312.)

1. In an electrical system, the combination with an alternating-current circuit, a direct-current circuit, a converter and voltage-responsive means for controlling the connection of the converter between both circuits in response to the voltage condition of the direct-current circuit, of means for normally maintaining the voltage of the direct-current circuit while there is no load thereon and for so reducing the voltage of the direct-current circuit, when load is placed thereon, that the voltage-responsive means will be caused to effect the connection of the converter between the two circuits.

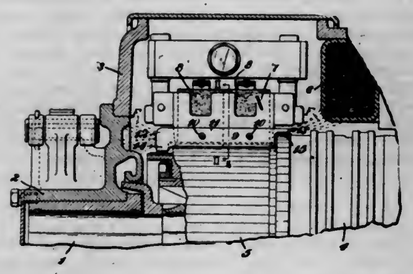


1,460,157. MOTOR-CONTROL SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1918. Serial No. 257,348. 5 Claims. (Cl. 172—274.)



1. The combination with a two-speed induction motor having star-connected phase windings, and a source of electrical energy therefor, of means for connecting said motor to said source for operation at one speed, means for reversing the phase sequence of two of said phase windings, and means for successively changing the connections of the phase windings of said motor to operate said motor at a second speed.

1,460,158. BRUSH HOLDER. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,145. 16 Claims. (Cl. 171—324.)



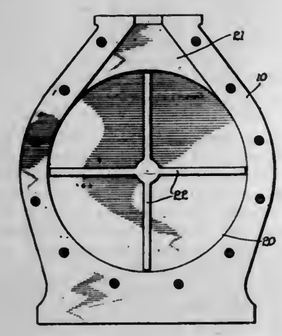
2. A brushholder adapted to maintain a brush in cooperation with a commutator cylinder and provided with means for protecting an arc formed between a brush and the commutator cylinder against the diverting action of magnetic fluxes.

1,460,159. CASTER. JOHN KARPIEJ, Hamtramck, Mich. Filed May 15, 1922. Serial No. 560,913. 1 Claim. (Cl. 16—26.)



A caster comprising a pair of similar lower members having means for enclosing a ball, substantially flat plates rigid with the upper extremities of said members, semicircular threaded grooves in the upper surfaces of said plates, a boss on each plate partly enclosed by said groove, a member adapted to be secured to a leg of an article of furniture, said member being provided with a circular plate having its outer periphery threaded and having a circular recess in the center thereof, said circular plate being adapted to engage said grooves, and said recess being adapted to be engaged by said bosses.

1,460,160. PUMP. HARRY E. LA BOUR, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,349. 1 Claim. (Cl. 103—103.)

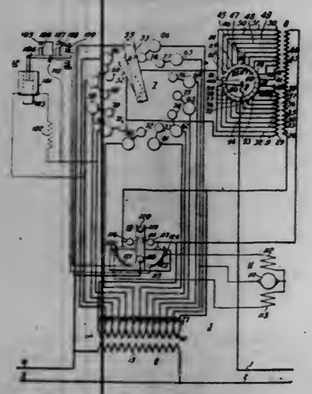


A centrifugal pump having, in combination, rigid blades defining a whirling space bounded by parallel planes, an axial inlet, and a radial outlet opening directly into said space, said outlet having sides flaring into tangency with said space and subtending an arc of the periphery substantially equal to the arc between the tips of adjacent blades.

1,460,161. REGULATOR SYSTEM. EDWIN LEHR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1919. Serial No. 300,393. 21 Claims. (Cl. 171—119.)

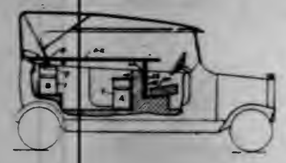
1. In a regulator system for a supply circuit, a transformer energized by said supply circuit, and means comprising a relay and an auxiliary transformer controlled

thereby for varying the number of active turns of said transformer in accordance with the supply-circuit voltage



and for connecting the transformer to the supply circuit to maintain substantially constant voltage on a portion of the supply circuit.

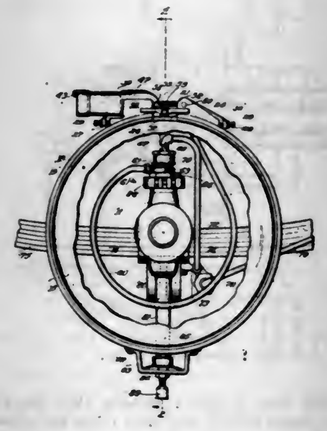
1,460,162. CAMPING OUTFIT. ARTHUR J. LEWIS, Stratford, Conn. Filed July 25, 1921. Serial No. 487,507. 9 Claims. (Cl. 5—2.)



1. A camping outfit comprising a foldable bed, a cabinet provided with a top having a plurality of sections, one of said sections being hinged to the cabinet, supports for one end of the bed secured to said hinged section, said section being mounted so that it may be swung to bring the supports to operative position or to a concealed position within the cabinet at will, and a foldable support independent of the cabinet for the other end of the bed, said cabinet also provided with a compartment adapted to receive the bed and the foldable support when not in use.

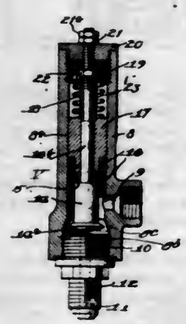
1,460,163. BRAKING APPARATUS. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 17, 1920. Serial No. 431,332. 24 Claims. (Cl. 188—152.)

1. In a braking apparatus, a steering wheel, a brake drum on said wheel, a brake band provided with a gap between its ends, means for causing engagement of said band with said drum, a steering knuckle for said wheel, a supporting arm mounted on and movable with said knuckle, a yoke on said arm for engaging one side of said band, means for guiding the movement of the ends of said band toward each other and for preventing lateral displacement from said drum, said means comprising a rod secured to said supporting arm and extending laterally across the gap in said band, and means for preventing rotary movement of said band with said drum and for preventing lateral displacement thereof from said drum at its lower portion, comprising a torque arm depending from the pivot pin in said steering knuckle, and



rigidly secured thereto, a stop pin secured in the end of said arm co-axial with said pivot pin, and an opening in said band in which said stop pin is positioned.

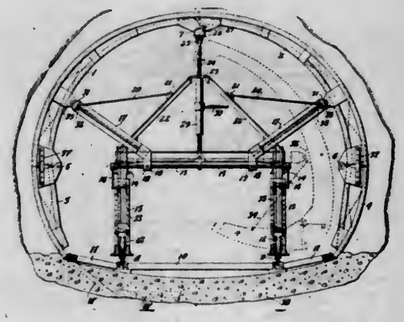
1,460,164. HYDRAULIC BRAKE. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 23, 1922. Serial No. 531,142. 5 Claims. (Cl. 188—152.)



1. A braking apparatus comprising in combination, a fluid-pressure actuated brake operating device, a fluid compressor, a fluid pressure line extending between the compressor and the said brake operating device, and means interposed in said fluid pressure line and controlled by the pressure existing in said line arranged to partially close the communication between the compressor and the fluid-pressure actuated brake operating device when the fluid in said line has attained a predetermined pressure.

1,460,165. FORM FOR TUNNELS AND CULVERTS. CHARLES D. MCARTHUR, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,508. 11 Claims. (Cl. 25—131.6.)

3. A form carrier or traveller for concrete tunnels and the like, comprising in combination a top truss, a longitudinal side truss, and a carriage for both of said trusses, the side truss being supported at its ends by means located outside the plane of the ends of the top truss,



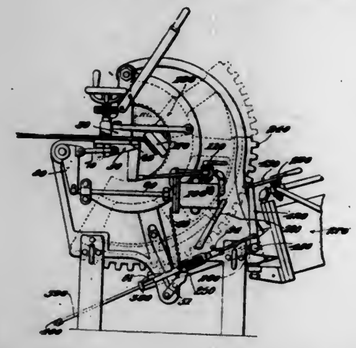
and means at the ends of the side truss for moving the latter toward and away from the center line of the traveller.

1,460,166. DOOR LOCK. JOHN MCARTHUR, Detroit, Mich. Filed Feb. 14, 1922. Serial No. 536,482. 3 Claims. (Cl. 292—37.)

1. A vehicle door locking mechanism having a bolt mounted for projection at its nose beyond the lower edge of the door and movable parallel with the free edge of the door, said bolt being provided at its inner end with a hook shaped head having an outwardly directed finger, and a manually actuable tumbler straddled by said head and provided with an operating arm for engagement with the extremity of said finger, the nose being provided with a lateral shoulder and a bolt engaging spring being disposed in bolt advancing relation with said shoulder.

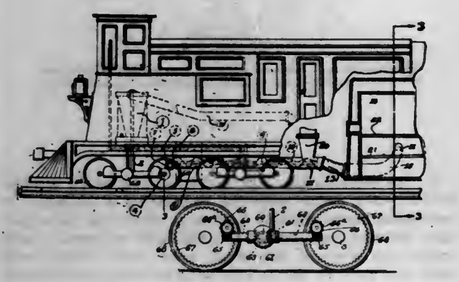
1,460,167. FLANGING MACHINE. HUGH MCCABE, Lawrence, Mass. Filed June 2, 1920. Serial No. 385,885. 7 Claims. (Cl. 153—16.)

1. A flanging machine having, in combination, a driven member, a bender actuated thereby, a driving member capable of being moved into and out of engagement with the driven member to advance the bender step-by-step, means for actuating the driving member, and means for limiting the return movement of the driving member between the steps in the flanging operation subsequent



to the first, including a member operatively connected with the driving member actuating means, and a device mounted upon said rod to rotate axially around the same and to engage a portion of the driving member when rotated into a predetermined position.

1,460,168. FORCE FEED FOR POWDERED FUEL. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker, administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Jan. 3, 1918, Serial No. 210,146. Patent No. 1,292,399. Divided and this application filed Jan. 17, 1919. Serial No. 271,720. 2 Claims. (Cl. 198—15.)



1. The combination of a locomotive tender having a slot through its floor, a screw conveyor underlying the said slot, a pipe communicating with the locomotive fire-box and leading from the said screw conveyor, means for driving the said screw conveyor, the said means consisting in a gear upon one of the locomotive axles, a gear upon the said screw-shaft, and a gear member intermediate the said first-mentioned gear and

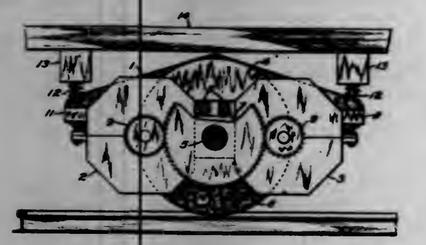
the screw-shaft gear, the said gear member having one gear part adapted to be driven by the first-mentioned gear and another part adapted to drive the said screw-shaft gear.

1,460,169. SHEAVE WHEEL. THOMAS SPENCER MILLER, South Orange, N. J. Filed Dec. 11, 1922. Serial No. 606,039. 4 Claims. (Cl. 295—10.)



2. In an apparatus of the class described, a sheave, a groove in the cable groove in said sheave and a hoop of larger diameter than said sheave and adapted to ride in said groove and bear against the cable.

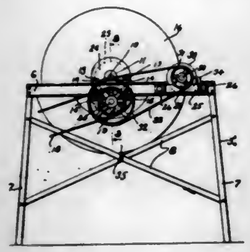
1,460,170. RAILWAY-MOTOR MOUNTING. BENJAMIN S. MOORE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1920. Serial No. 415,048. 6 Claims. (Cl. 105—113.)



1. The combination with a driving axle of an electric vehicle, of a motor mounting comprising a plurality of individual motor casings having a connecting yoke portion therefor, and means for yieldably supporting said casing for vertical movement upon said driving axle with the axes of the motors substantially diametrically opposed with respect to the driving axle.

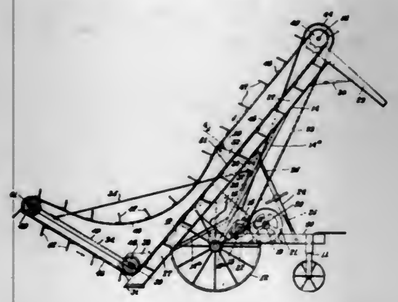
1,460,171. GRINDSTONE. IENAR F. NELSON, Racine, Wis. Filed June 3, 1920. Serial No. 386,247. 2 Claims. (Cl. 51—166.)

1. In combination, a supporting frame including a pair of spaced longitudinally extending members, a bracket secured to one of said members and having two bearings, a bearing associated with the other of said members, a grindstone supporting shaft one end of which is journaled in one of the first mentioned bearings and the other end of which is journaled in the last



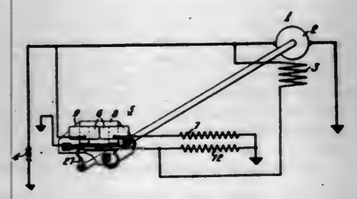
mentioned bearing, a drive shaft journaled in the other of the first mentioned bearings, and means operatively connecting said shafts.

1,460,172. PORTABLE LOADER. NELS P. NELSON, Brooklyn, N. Y. Filed Sept. 3, 1921. Serial No. 498,532. 11 Claims. (Cl. 198—11.)



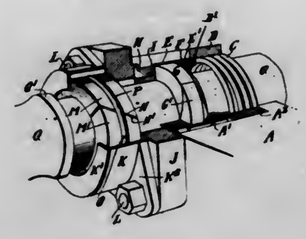
1. In a portable loader of the character described, a pivotally supported elevator frame, a collector frame loosely and adjustably supported at one end of said elevator frame, and a continuous conveyor adapted to traverse the length of said collector and elevator frames.

1,460,173. VOLTAGE-REGULATOR MECHANISM. FRANCIS H. PATTEN, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,099. 6 Claims. (Cl. 200—90.)



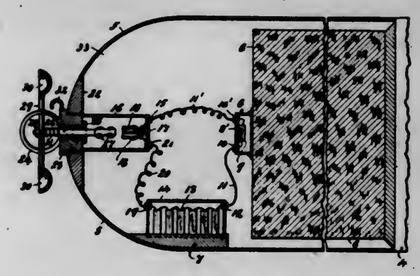
3. In a contact device, a pair of contact members, means for resiliently mounting one of said contact members, an electromagnet for moving the resiliently mounted contact perpendicularly to the surface of contact, intermittently operative means for moving the second contact member in the plane of the surface of contact of said members, and a spring member for returning the second contact member to its initial position when moved by said intermittently operative means.

1,460,174. PISTON-ROD SWAB. JOSEPH W. PRICE, Jr., Philadelphia, Pa., assignor to The United States Metallic Packing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 12, 1921. Serial No. 436,647. 2 Claims. (Cl. 286—20.)



1. A swab for use with piston rods and metallic packings therefor consisting of a segmental ring made up of segments of wood soaked in oil and having ends shaped to overlap each other when said ring segments are assembled on a piston rod.

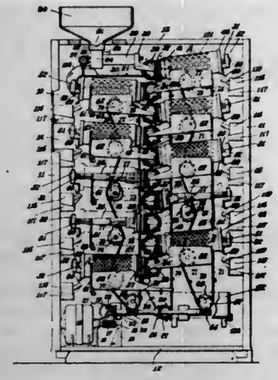
1,460,175. TORPEDO HEAD. JOSEPH A. RAYDER, Philadelphia, Pa. Filed Jan. 16, 1923. Serial No. 613,025. 8 Claims. (Cl. 114—20.)



1. The combination with a torpedo for practice firing, of a head containing an audible signal, and means for actuating said signal comprising means operated by the resistance of the water to the motion of the torpedo.

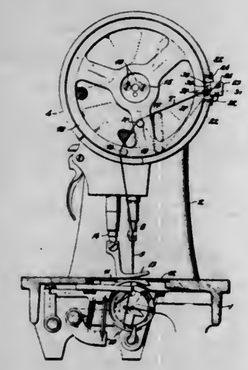
1,460,176. SORTING MACHINE. CHARLES F. RICHARDSON, Woonsocket, R. I., assignor to Karpeles Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 1, 1921. Serial No. 504,679. 26 Claims. (Cl. 130—16.)

4. In a machine for sorting material according to size, the combination with a feeding mechanism for feeding charges of said material to be separated, of a plurality of sorting stations comprising cylindrical screening devices arranged in series at opposite sides of the machine, the screening devices of one series being disposed at a different plane from the corresponding screening devices of the other series, means for continuously rotating and intermittently oscillating said screening devices and operating said feeding mechanism, and oscillating means for collecting the unsorted material



for subsequent separation from each screening device and delivering same to the interior of the succeeding lower screening device of the opposite series.

1,460,177. THREAD CONTROLLER FOR SEWING-MACHINE TAKE UPS. JOHN C. RINGE and HENRY C. NISSEN, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 478,780. 6 Claims. (Cl. 112—248.)

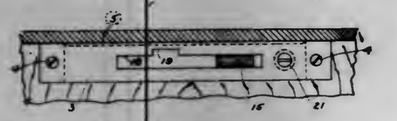


1. In a sewing machine, the combination with a rotary take-up and a thread supply, of means for preventing the drawing of thread from its supply under an abnormal condition of the winding of the thread upon the take-up, said means including relatively movable elements rendered effective by the action of the thread.

1,460,178. LID-OPERATING MECHANISM. ADDENAGO ROGGI, Chicago, Ill. Filed Aug. 7, 1922. Serial No. 580,349. 4 Claims. (Cl. 217—60.)

1. Lid-operating mechanism comprising a link having one end pivotally connected to a lid, a link operatively pivotally connected at one end to a container, the other ends of said links pivotally interconnected, a tension

spring secured at one end to a stationary part and at its other end to said second-mentioned link to yieldably re-



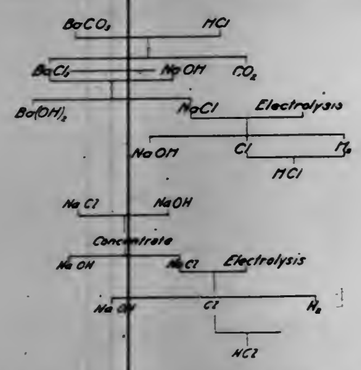
tard the closing of the lid and accelerate the raising thereof, and means operable from the exterior of the container to adjust the tension of said spring.

1,460,179. DENTIFRICE. WILLIAM M. RUTHRAUFF, Philadelphia, Pa. Filed Apr. 24, 1920. Serial No. 376,307. 6 Claims. (Cl. 167—9.)

2. A proteolytic dentifrice comprising, in combination a proteolytic enzyme, acid in amount sufficient to maintain the enzyme and of a nature to stimulate the flow of saliva and to be substantially neutralized thereby, to free the enzyme for adsorption on the mucin plaque, with abrasive and body-forming material.

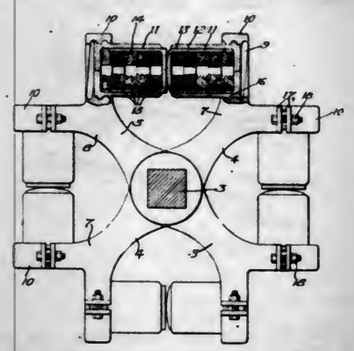
4. A dentifrice including a proteolytic enzyme, lactic acid, the acidity of the dentifrice being sufficient to maintain the enzyme, and an abrasive inert to lactic acid.

1,460,180. PROCESS FOR CONVERTING THE CARBONATES OR SULPHIDES OF BARIUM OR STRONTIUM INTO THE CORRESPONDING HYDRATES. RALPH W. SHAFOR, Denver, Colo. Filed Aug. 27, 1920. Serial No. 406,281. 13 Claims. (Cl. 204—9.)



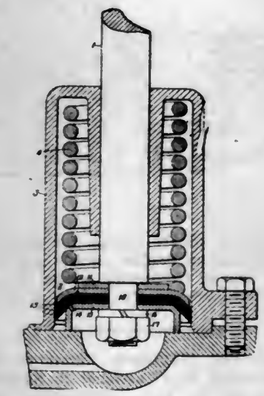
1. A cyclic process of recovering barium compounds from residues containing the same, comprising treating the residues with hydrochloric acid to form barium chloride, adding thereto an excess of sodium hydrate to precipitate barium hydrate and form a sodium chloride solution carrying a small percentage of soluble barium salts, cooling the mixture sufficiently to reduce the solubility of the barium hydrate in the liquid menstruum to a minimum, separating the barium hydrate, adding additional sodium hydrate to the sodium chloride solution to keep the impurities therein in solution, concentrating to produce a mother-liquid carrying suspended sodium chloride crystals, sodium hydrate, and a small quantity of soluble sodium chloride and dissolved barium salts, separating the suspended sodium chloride crystals from the mother-liquid, utilizing the latter carrying a small quantity of soluble barium salts in the barium hydrate precipitation-step, dissolving and electrolyzing the sodium chloride to produce sodium hydrate, chlorine and hydrogen, forming hydrochloric acid from the latter two, utilizing the hydrochloric acid from the latter two, utilizing the hydrochloric acid in the barium chloride formation-step, and returning the sodium hydrate to the solution-cycle.

1,460,181. RESILIENT COUPLING. ROBERT SIEGFRIED, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,898. 9 Claims. (Cl. 64—96.)



1. A flexible coupling comprising two members severally provided with lateral projections having opposing seats, and a shock-absorbing member mounted in each of said seats, independently of the other seats, and comprising a resiliently mounted member provided with a metallic wearing surface.

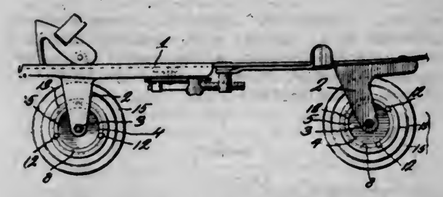
1,460,182. PISTON PACKING. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,857. 4 Claims. (Cl. 154—45.5.)



2. A piston packing comprising inferior-grade leather and non-porous fibrous material located on opposite sides thereof for sealing the leather pores.

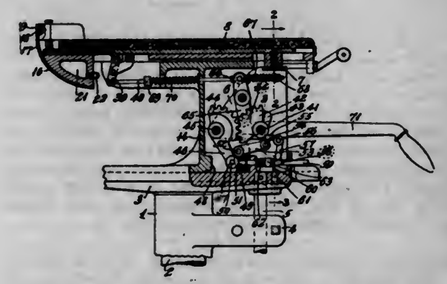
1,460,183. ROLLER FOR SKATES. CHARLES D. SNYDER, Berrien Springs, Mich. Filed June 4, 1921. Serial No. 474,908. 4 Claims. (Cl. 46—52.)

1. The combination with a skate roller comprising a round body member having disposed on the periphery thereof an annular tread receiving rim, tread engaging flanges carried by the rim, of means for holding said tread rim against displacement on the body member,



said means comprising rivets extending through apertures in the body member adjacent its periphery and heads carried by the ends of said rivets and overlying and engaging the sides of the flanges of the annular tread rim.

1,460,184. SHIRT BOARD FOR IRONING MACHINES. CHARLES E. WAREAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed July 2, 1917, Serial No. 178,286. Divided and this application filed July 18, 1917, Serial No. 181,395. Renewed July 18, 1921. Serial No. 485,787. 24 Claims. (Cl. 68—9.)



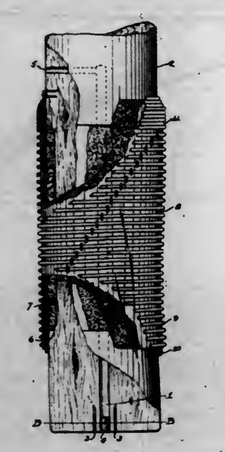
1. A shirt ironing board having its end edges at the neck-band receiving end diverging outwardly and backwardly, and a neck-band former on said board, said end edges being substantially tangent to the curve of the neck-band former.

1,460,185. CONTRACTIBLE DISPLAY AND SHIPPING CASE. MELVIN L. WEBSTER, Independence, Iowa, assignor to Minerva P. Webster, Independence, Iowa. Filed Jan. 7, 1922. Serial No. 527,745. 1 Claim. (Cl. 206—45.)



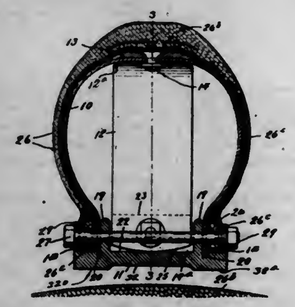
A contractible display and shipping case, comprising an inclined stepped bottom plate shaped by crosswise bending to have raised front walls for the steps thereof providing a plurality of open top compartments, side plates closing the ends of said compartments and having their lower rear corner parts foldable inwardly only to provide easel members, and a rigid flap hinged to the under part of said bottom plate between said corner parts, said flap when swung in one direction acting to prop apart said easel members, and when swung oppositely to release said corner parts permitting them to be folded over inwardly upon said bottom plate to contract the case in dimensions.

1,460,186. POLE-BASE CONSTRUCTION. GEORGE X. WENDLING, San Francisco, Calif. Filed July 5, 1922. Serial No. 572,029. 2 Claims. (Cl. 20—100.)



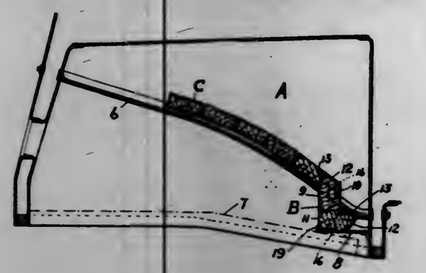
1. In combination with a pole provided with a longitudinal channel in its butt end forming a reservoir for containing a body of wood preservative fluid, said channel terminating at its upper end in a filling inlet opening at one side of the pole, a body of absorbent for surrounding the pole butt within the length of said channel, and means surrounding said body of absorbent for protecting the same and retaining it in position about the pole whereby the preservative seeping outwardly through the pole butt from said reservoir will maintain said absorbent moist.

1,460,187. WHEEL TIRE. ROBERT B. WHITMAN, Boston, Mass. Filed Oct. 4, 1920. Serial No. 414,418. 16 Claims. (Cl. 152—8.)



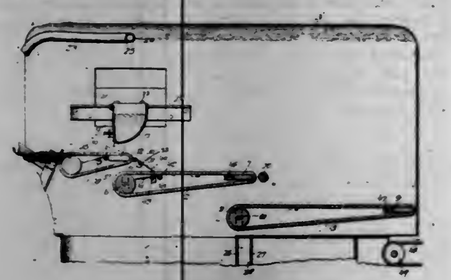
12. A vehicle tire including a rim having opposed annular spring-receiving grooves in its outer face, a set of spaced open loop springs extended from the periphery of said rim having their ends received in said grooves, a second set of spaced open loop springs angularly disposed with relation to the springs of said first set, and having their ends in engagement with the periphery of said rim, and an outer flexible band enclosing and connecting the outer portions of both sets of springs.

1,460,188. BAFFLE-WALL BRICK. ALFRED H. WILLETT, West New York, and HARRY S. MARTIN, Ridgewood, N. J., assignors to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 3, 1919. Serial No. 280,338. 6 Claims. (Cl. 110—87.)



1. In a boiler fire box having inclined circulation tubes and means therebelow for supporting a cross wall, the combination of bricks adapted to be used in one position in the construction of the body portion of said wall and in another position in the construction of the cap portion, each of said bricks having a recess at each end which leaves a shoulder adapted to engage the under portion of an adjacent tube when the brick is in cap forming position whereby forward displacement of the brick is prevented.

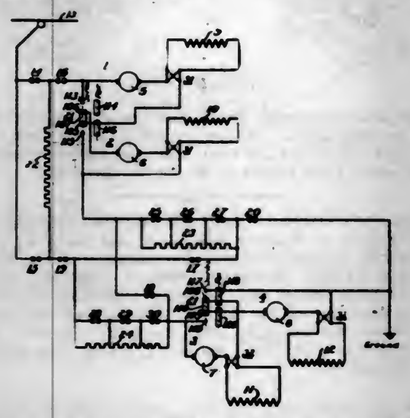
1,460,189. COATING MACHINE. FRANK H. WOOLF, Chicago, Ill. Filed Feb. 3, 1920. Serial No. 355,996. 13 Claims. (Cl. 91—3.)



3. In a coating machine, a receptacle extending transversely across said machine having a slot adjacent its bottom for discharging a substantially uniform curtain of coating material from said receptacle, in combination with a reticulated carrier extending longitudinally of said machine below said receptacle and a second carrier extending from below said first carrier longitudinally of said machine and adapted to receive material from said first carrier, a rotatable member arranged at the discharge end of the second carrier substantially flush with the top face thereof, and means for receiving the material discharged over said member.

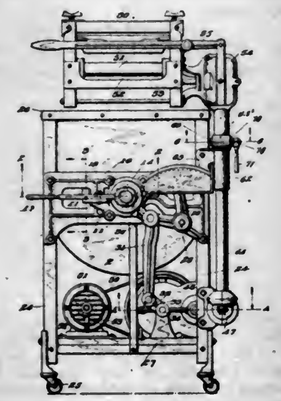
6. In a coating machine, a receptacle extending transversely across said machine having a slot adjacent in its bottom for discharging a substantially uniform curtain of coating material from said receptacle, in combination with a carrier extending longitudinally of said machine below said receptacle, an adjustable apron arranged below the top side of the carrier and an apron arranged at the discharge end of said first carrier, a second carrier extending from below said first carrier longitudinally of said machine and adapted to receive material from said first carrier, an adjustable apron arranged below the top side of the second carrier, a receiving carrier, means at the end of said second carrier for distributing articles discharged from said second carrier.

1,460,190. SYSTEM OF CONTROL. OTTO WORTMAN, Audubon, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1921. Serial No. 502,594. 6 Claims. (Cl. 172—179.)



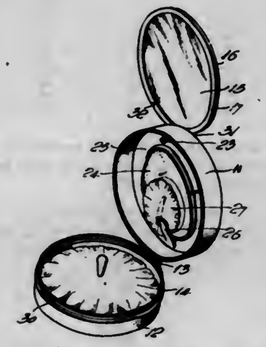
1. In a control system, the combination with a plurality of motors, of a plurality of main controllers for reversing said motors, each of said controllers having a forward and a reverse position, a changeover switch having a plurality of positions for connecting said motors in different relations, a line switch, a master controller for governing said switch and a plurality of interlocks controlled by said reversing controllers and said changeover switch for preventing the closure of said line switch upon any of said reversing controllers or said changeover switch occupying incorrect positions.

1,460,191. DRIVING MECHANISM FOR WASHING MACHINES. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Co., East Peoria, Ill., a Corporation of Illinois. Filed May 23, 1918. Serial No. 236,142. 10 Claims. (Cl. 74—50.)



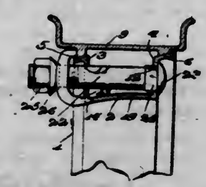
1. In a washing machine, in combination, a casing, a clothes container removably supported in said casing and rotatable alternately in opposite directions, a trunnion connected axially with one side of said container and provided with a clutch socket, a shaft arranged to be moved endwise into and out of clutch engagement with said trunnion, a gear wheel for actuating said shaft and through which the latter may be moved, a hand lever to reciprocate said shaft, said lever extending to one side of said machine, and gearing arranged to continuously impart alternate rotary motion to said gear wheel and said shaft when said shaft is in clutch relation with or declutched from said trunnion.

1,460,192. VANITY CASE. HARRY R. BARR, Philadelphia, Pa., assignor of one-third to Christian Boyd Zacharias and one-third to Wayne E. Byers, both of Chambersburg, Pa. Filed Jan. 24, 1923. Serial No. 614,583. 7 Claims. (Cl. 132—83.)



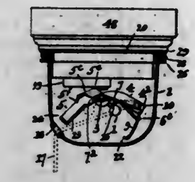
3. A vanity case comprising opposed members normally facing each other to form a closed case, hinge means connecting said members, and a mirror carried exteriorly by one of said members and movable to a position in extension of said member away from said hinge means, whereby said mirror and said members may be positioned in alinement facing in the same direction.

1,460,193. AUTO ATTACHMENT. HERBERT DIVINE COOK, Terre Haute, Ind. Filed July 27, 1922. Serial No. 577,787. 5 Claims. (Cl. 301—24.)



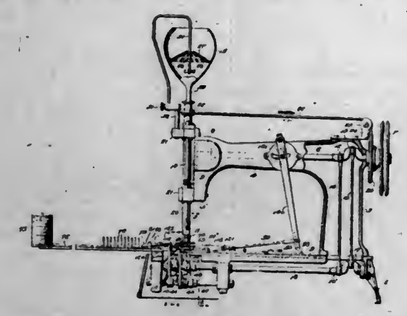
1. The combination with a felloe having a pair of peripheral flanges adapted to support a demountable tire rim, said flanges having aligned bolt receiving openings therethrough and a slot through the felloe at the juncture of the flange and the periphery of the felloe, of a clamp comprising a substantially U-shaped clamping member having a flange at one end adapted to the slot and to abut the inner wall of the slot and having a lip at the outer end of the clamping member, said clamping member having an elongated slot formed therethrough, a bolt extending through the aligned openings of the flange of the felloe and through the elongated opening of the clamping member, and a nut in threaded engagement with the bolt and adapted to contact the clamping member to hold the latter in clamping relation to both the felloe and a portion of the tire rim and to permit movement of the clamping member transversely of the bolt and out of engagement with the tire rim, as desired.

1,460,194. MECHANICAL MOVEMENT. ALFRED CARLYLE DAY, Melbourne, Victoria, Australia. Filed Apr. 6, 1921. Serial No. 458,872. 6 Claims. (Cl. 200—161.)



1. In mechanism of the character described, the combination with two pivoted frames, a hooked member pivotally carried by one of the frames and adapted to engage with the other of said frames, means for swinging in one direction the frame carrying the hooked member to effect the engagement of the latter with the other frame, and means for swinging the hooked member and frame after engagement in the opposite direction, of a pivoted tumbler adapted to be oscillated in opposite directions when the frames are operated as set forth.

1,460,195. MACHINE FOR THREADING TAPE INTO ARTICLES. GEORGE M. EAMES, Bridgeport, and JOHN C. RINGE, Stratford, Conn., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 25, 1919. Serial No. 319,720. 34 Claims. (Cl. 112—2.)

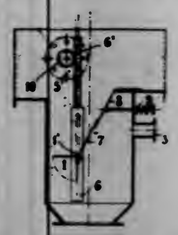


33. A machine for threading tape into buttons and like apertured articles including, in combination, an article-registering pin adapted to engage an aperture of an article, means for feeding an article and the pin engaging the same from an initial into threading position, tape-feeding means, a tape-guide normally directing the tape out of the path of operation of said tape-feeding means, and means whereby the operation of said article-registering pin permits the tape-guide to direct the tape into the path of operation of said feeding means.

1,460,196. MINERAL-WASHING PLANT. ANTOINE FRANCE, Liege, Belgium. Filed June 9, 1922. Serial No. 567,208. 2 Claims. (Cl. 83—82.)

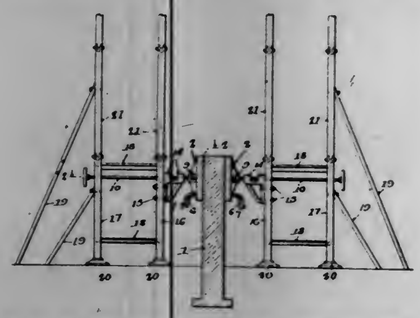
1. In wet-sorting apparatus of the kind comprising a flooded sorting pocket depending from a launder and

having a hopper-like separation chamber formed in the upper portion thereof by a sloping screen leading downwardly to a discharge mouth, and means for supplying water in upward streams through said pocket, the combination of: a sloping screen formed of two independent substantially aligned screen-plates; a movable sector-shaped discharge flap on a pivoted shaft extending horizontally along the lower edge of the screen and projecting at one end through the corresponding wall of the pocket; means on the said projecting end of the shaft for imparting an oscillatory movement to the flap; a pair of



suitably guided vertically movable supporting members for the said shaft and the lower screen-plate, arranged within and adjacent the lateral walls of the pocket; hand-operated means in positive engagement with said supporting members for adjusting the position of same, whereby the depth of the separation chamber above the flap may be varied; means for securing the aforesaid supporting members in any adusted position; and spring pressed means for causing the adjustment of the upper-screen-plate in relation to the lower screen plate; substantially as described.

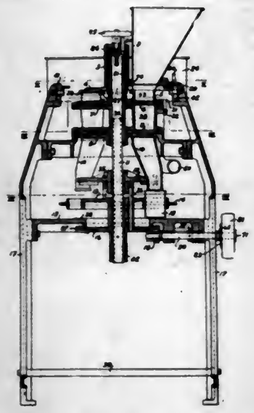
1,460,197. APPARATUS FOR BUILDING WALLS. AYOOB GEORGE, Fond du Lac, Wis. Filed Mar. 29, 1920. Serial No. 369,610. 7 Claims. (Cl. 25—131.)



6. In an apparatus for building concrete walls, the combination with a supporting framework, of a form provided with means adapted to transmit heat to said walls, and means adjustably secured to said framework adapted to position said form in any one of a plurality of positions relative to said framework.

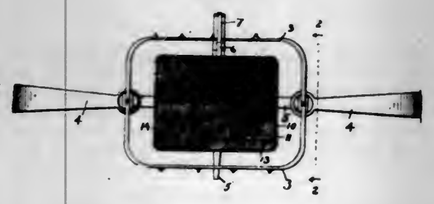
1,460,198. CAN-FILLING MACHINE. OSWALD H. HANSEN, Port Washington, Wis., assignor, by direct and mesne assignments, to Hansen Canning Machinery Corporation, a Corporation of Wisconsin. Filed Oct. 22, 1917. Serial No. 197,809. 72 Claims. (Cl. 226—96.)

1. In a filling machine, an element having an opening, a source of liquid supply communicable with said opening, a series of measuring pockets each having an opening at its lower portion normally sealed by said element, said element and said pockets being relatively movable to establish communication through said openings be-



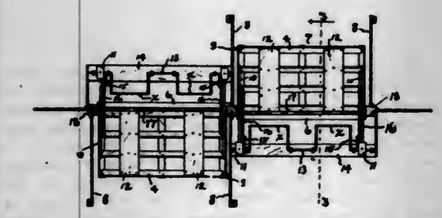
tween said source and successive pockets of said series, and means for delivering material to said pockets when their lower openings are sealed.

1,460,199. ANIMAL TRAP. WILLIE T. HARMON, Sangerville, Me. Filed Aug. 14, 1922. Serial No. 581,605. 2 Claims. (Cl. 43—92.)



1. A spring actuated jaw under-water animal trap having the trigger trencher formed of a closed receptacle with perforated walls for receiving and retaining swimming live bait, whereby the trencher is relieved of the weight of the live bait when the trap is set for operation under water.

1,460,200. AUTOMOBILE GATE. JOHN W. LAWRENCE, Fremont, Nebr. Filed July 2, 1920. Serial No. 393,703. 1 Claim. (Cl. 39—6.)



The herein described means for closing two adjacent passageways, comprising a partition between the passageways, a pair of base-plates each disposed transversely of

a passageway, stop-members on the partition, a pair of gates each provided on one of its sides with a pair of parallel track-plates and pivotally connected with a base-plate, counterbalancing means on said gates to normally cause them to move upwardly in a circle's arc for engaging the stop-members, a pair of rock-shafts in bearings, each being provided with a pair of levers and having a pair of loops inclined toward a gate in line with a track-plate, links arranged in pairs, each pair being pivotally connected with a gate and with the levers of a rock-shaft, said rock-shafts being movable for moving the gates downwardly in a circle's arc, the loops moving toward said track-plates.

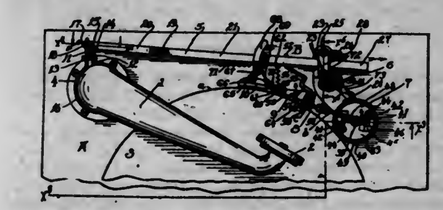
1,460,201. SPIRAL TOOL. GEORGE O. LEOPOLD, Philadelphia, Pa., assignor to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 28, 1922. Serial No. 547,442. 1 Claim. (Cl. 145—53.)



The combination in a spiral tool, of a barrel having an internal shoulder and threaded at one end; a cylindrical nut located in the barrel, one end of said nut resting against the shoulder; a screw-threaded sleeve secured to the threaded end of the barrel and holding the nut in position; a handle secured to the barrel; a spindle having a spiral groove and extending through the sleeve and nut and into the barrel, the nut having a series of longitudinal grooves in its periphery, the rear wall of each groove being in a radial plane of the nut, the base of each groove being in a plane at right angles to the rear wall of the groove; and a roller located in each groove and arranged to lock the nut to the barrel when the nut is turned in one direction

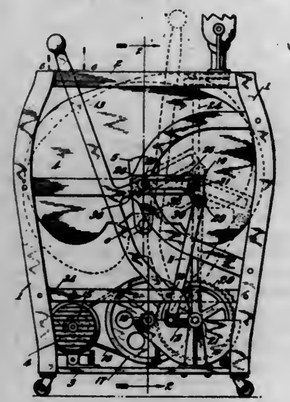
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1,460,202. AUTOMATIC STOP FOR PHONOGRAPHS. AARON S. LINDHOLM, Orange, Calif. Filed Aug. 24, 1920. Serial No. 405,682. 7 Claims. (Cl. 192—118.)



1. The combination with a phonograph turntable and swinging tone-arm; of a governor mounted adjacent the turntable and adapted to be moved toward and away from the same, means connected with the tone-arm for moving the governor toward the turntable in travel of the tone-arm toward the center of a record upon the turntable, brake means for the turntable, and means normally holding the brake means inoperative, and controlled by the governor to release the brake means, said governor having a rotatable part adapted to be turned by contact with the turntable.

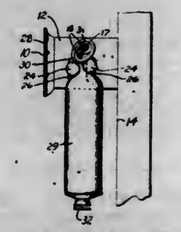
1,460,203. WASHING MACHINE. THOMAS LITWILLER and JOHN LEADER, Morton, Ill., assignors to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois. Filed Feb. 3, 1921, Serial No. 442,336. Renewed Dec. 7, 1922. 24 Claims. (Cl. 74—14.)



1. In a machine of the character described, in combination, a tub mounted for movement and means to move said tub, including an adjustable means adapted when adjusted to one position to restore said tub to its normal position and stop its movement.

15. In a machine of the character described, in combination, a frame, a tub mounted for oscillation in said frame, and operating means for the tub comprising a pivot member arranged in spaced relation to the axial center of the tub, a pivotal controlling means in said operating means, and manually operable means for moving the axis of said controlling means alternately into coincidence with the axis of the tub and the axis of said pivot member, without stopping the movement of said operating means.

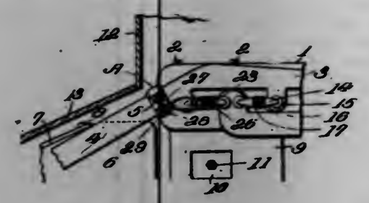
1,460,204. COLLAPSIBLE TUBE HOLDER AND CONTENT EJECTOR. EMILIO A. MARAFFI, Bridgeport, Conn. Filed Feb. 12, 1921. Serial No. 444,402. 3 Claims. (Cl. 221—60.)



1. A device of the character described, comprising a bracket, a slotted key revolubly secured in the bracket,

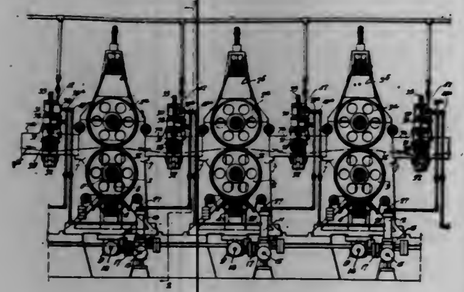
and a pair of spaced apart rollers arranged parallel to the key and carried in slots in the bracket, permitting them to be moved toward and away from the key, said slots being arranged to allow the rollers to bear on the coil of collapsed tube on the key.

1,460,205. MANIFOLD CONNECTION LOCK. LESTER BRYAN MARTIN, Ford, Va. Filed Nov. 10, 1921. Serial No. 514,280. 6 Claims. (Cl. 151—44.)



1. A nut lock, of a hollow hexagonal shape provided with outwardly extending parallel ears, a bolt extending through the ears for compressing the hexagonal clamp, a retaining member having a portion of its length bent in a plane at right angles to its other portion, one of the portions of the retaining member greater in length than the other and provided with an opening, the other portion of the retaining member provided with an opening and an extending end adapted to be bent outwardly at right angles, this end of the member being clamped beneath the nut carried by the clamping member bolt, and the outwardly extending end of the retaining member bent outwardly to lock the clamping nut against rotation.

1,460,206. FABRIC-PRINTING MACHINE. CHARLES H. MASLAND, 2d, Melrose, Pa., assignor to C. H. Masland & Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1920. Serial No. 429,894. 12 Claims. (Cl. 101—181.)



1. In a fabric printing machine, the combination of a plurality of pairs of normally opposed and revolving rolls between which the said fabric is consecutively fed in a continuous strip, with means controlled by the tension of the fabric for separating the rolls of the respective pairs, substantially as and for the purpose set forth.

1,460,207. BAG OR PARCEL TIE. CHARLES F. MITCHELL, Baltimore, Md. Filed Apr. 18, 1922. Serial No. 555,005. 3 Claims. (Cl. 24—30.5.)

1. A bag or parcel tie comprising a plate having two oppositely-projecting tongues punched therefrom and forming openings therein,—said tongues each having a convex lower side whose central portion lies in a plane below the outer central surface portion of the plate while the rim-edge of each tongue has position in a plane



above the said outer side of the plate and said plate having means for attaching a cord thereto whereby when the cord is drawn beneath the convex side of the tongue the latter will clamp the cord against the edges of the plate-opening and bind the cord against slipping.

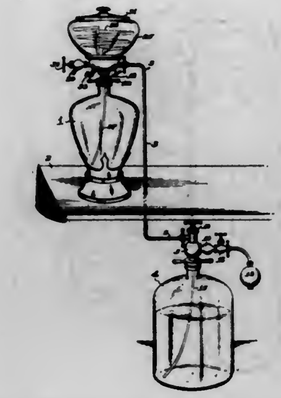
1,460,208. PUMP. JOHN MOHN, Detroit, Mich. Filed Oct. 6, 1919. Serial No. 328,802. 1 Claim. (Cl. 225—16.)



The combination with a pump and a connection carried thereby of a packing device carried by said connection and a telescopic discharge tube extending through said connection and in operative communication with said pump, the tube consisting of two sections, one having a stuffing box connection with the other, and a coiled expansion spring engaging the stuffing box to maintain one section of the tube normally extended relatively to the other.

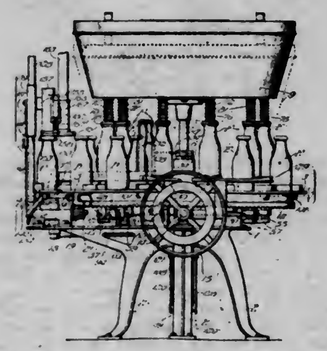
1,460,209. BEVERAGE-DISPENSING APPARATUS. JOHN MOHN, Detroit, Mich. Filed Nov. 7, 1921. Serial No. 513,294. 2 Claims. (Cl. 225—22.)

1. A dispensing device for beverages, comprising a receptacle having a transparent portion adapted to display a beverage contained therein, means for withdrawing beverage from the receptacle, including a dispensing faucet, and means for automatically supplying additional beverage to the display receptacle so as to maintain the liquid therein at a substantially uniform level, a refrigerator chamber and a conduit leading from the receptacle through the refrigerator chamber to the dispensing



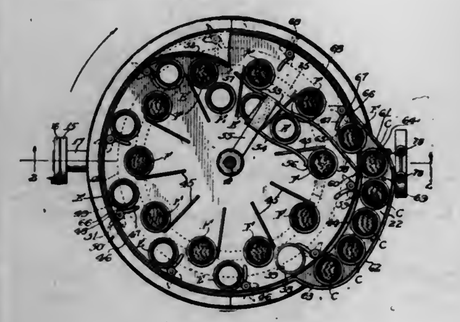
faucet, whereby the temperature of the liquid is lowered only in that portion of the apparatus immediately adjacent to the point of withdrawal.

1,460,210. BOTTLE FILLING AND CAPPING MACHINE OR THE LIKE. ROLLO L. NICHOLAS, Chicago, Ill., assignor to William Ratzenstein, Chicago, Ill. Filed June 26, 1918. Serial No. 241,910. 12 Claims. (Cl. 226—76.)



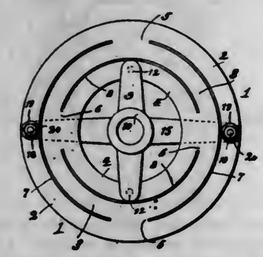
1. In a machine of the kind described and in combination, a rotatable table, a support for said table, a fluid container arranged above said table provided with means for adjustably supporting the same and rotating the container with the table, said container provided with a plurality of discharge pipes on the under side thereof and with a valve for each pipe for controlling the passage of fluid therethrough, a plurality of vertical movable bottle carriers carried by said rotatable table, said carriers arranged one under each discharge pipe on said container, adjustable means for successively moving bottles from the outer edge of said table toward the center thereof and thence outwardly toward the edge, and centering each bottle on its respective carrier, and means for thereafter successively lifting the carrier and bottle carried thereby a distance to engage and open the valve at the discharge pipe thereabove, means for successively lowering said carriers after a predetermined travel of said table, a receiving table arranged at one side of said rotatable table, means for successively moving the bottles from the lowered carriers outwardly from the center of the table on to said receiving table.

1,460,211. BOTTLE-FILLING MACHINE OR THE LIKE. ROLLO L. NICHOLAS and MAURICE GOLDBERGER, Chicago, Ill., assignors to William Ratzenstein, Chicago, Ill. Filed Dec. 29, 1919. Serial No. 348,136. 12 Claims. (Cl. 226—76.)



1. In a bottle filling machine of the kind described and in combination, a rotatable table, a plurality of bottle holders freely movable in any direction in the plane of said table, and means for engaging and sliding said holders on said table in a predetermined manner.

1,460,212. UNIVERSAL JOINT. PAUL OLIVE, Hempstead, N. Y. Filed Apr. 1, 1921. Serial No. 457,634. 5 Claims. (Cl. 64—96.)

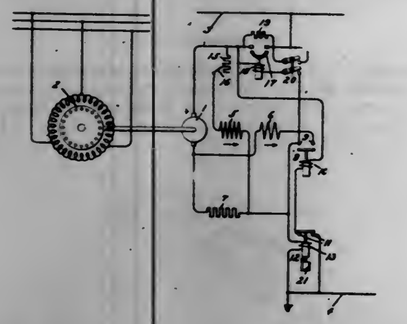


1. A universal joint comprising a flexible disc embodying a plurality of integrally formed, concentrically arranged annular members respectively embodying a plurality of radially connected segments, and means for coupling said disc to oppositely located adjacent shaft sections.

1,460,213. SYSTEM OF ELECTRICAL DISTRIBUTION. GRACIE HALL ROOSEVELT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 8, 1922. Serial No. 550,913. 8 Claims. (Cl. 171—312.)

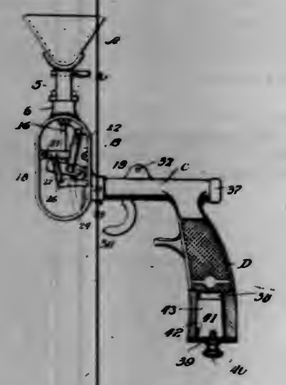
1. In a system of electrical distribution, the combination of a direct current generator having an armature winding, a load circuit arranged to be supplied with current from said generator, a resistance arranged to be connected in series with the armature winding of

said generator and said load circuit, means for causing current to flow through said resistance when the load



connected to said load circuit exceeds a predetermined value, and a field winding for said generator connected in shunt with said armature winding and said resistance.

1,460,214. FLASH-LIGHT GUN. FRANK SCHORIK, Chicago, Ill., assignor to Joseph Kostohryz, Chicago, Ill. Filed Mar. 18, 1922. Serial No. 544,701. 7 Claims. (Cl. 67—33.)

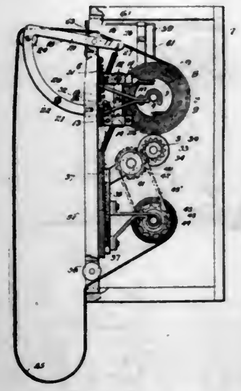


1. In a flash light gun, the combination of a trough, a body on which the trough is mounted, a powder cap seat movably mounted beneath the trough, there being a hole through the trough bottom communicating with the seat and an opening therebelow into the body, a firing pin in the opening, and trigger mechanism within the body adapted to drive the firing pin against the cap to explode the same, substantially as described.

1,460,215. TOWEL-SERVICE MACHINE. OSCAR SCHWIMMER, Los Angeles, Calif., assignor to Patent Products Company, a Corporation of California. Filed Feb. 4, 1919, Serial No. 275,271. Renewed June 21, 1922. Serial No. 569,873. 20 Claims. (Cl. 45—32.)

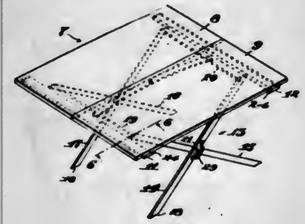
3. A towel service machine comprising a toweling supply spool, means to hold said spool against movement, means operable by a pull on the toweling to release said holding means, said holding means acting also to limit the length of toweling at each pull.

6. A towel service machine comprising a toweling supply spool, bearings in which said spool is operable, a carriage, means to hold said carriage under tension, a take-up roller on said carriage for used toweling, means



on said carriage and held in engagement with and operable by said toweling for operating said take-up roller and holding said spool in its bearings.

1,460,216. FOLDING TABLE. ARTHUR G. SMITH, Los Angeles, Calif. Filed Mar. 22, 1921. Serial No. 454,350. 3 Claims. (Cl. 45—116.)

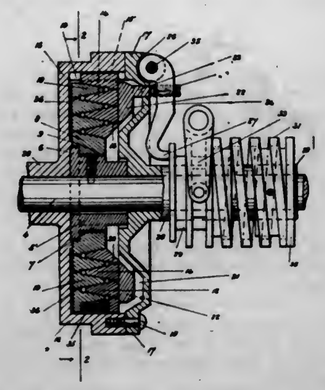


1. A foldable table comprising a pair of panels, a pair of spaced alined cleats secured to the undersides of the ends of said cleats and having inwardly beveled inner edges, hinges connecting the inner ends and lower sides of corresponding cleats to hinge the panels together; a foldable standard comprising two pairs of crossed leg members pivotally connected at their intersections, the upper ends of said members being pointed and adapted to extend into the channels formed by the bevelled edges of the cleats; tie-rods connecting the upper portions of the leg members of one pair with the upper portions of the leg members of the other pair so as to lie close to the under sides of the unfolded panels; said tie-rods being slightly longer than the width of the panels when folded; and a spring strip pivoted at its center to one of the panels and adapted to have its ends sprung under the tie-rods to force the tie-rods against the unfolded panels, to prevent the possibility of the panels folding while in use.

1,460,217. CLUTCH. ARTHUR A. SMITH, Lewis, and ROBERT E. SMITH, Kinsley, Kans. Filed Mar. 20, 1922. Serial No. 545,084. 5 Claims. (Cl. 192—66.)

1. A friction clutch, comprising a revoluble driving shaft, a driving sleeve secured on the driving shaft, a driving clutch member revolving with the said sleeve and free to slide axially and radially thereon, a nonslidable abutment which prevents the driving clutch member from sliding axially in one direction, a driven clutch

member adapted to engage with the driving clutch member and free to slide radially with it, a nonslidable casing inclosing the clutch members and revolving with



the driven clutch member, and means for sliding the driven clutch member into and out of engagement with the driving clutch member.

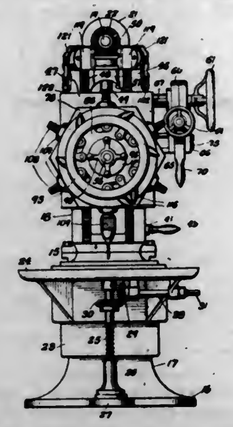
1,460,218. SPEED INDICATOR. WILLIAM H. F. SMITH, Milwaukee, Wis., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 15, 1918. Serial No. 228,743. 3 Claims. (Cl. 116—76.)



3. In a speed indicator, the combination of a rotatable crank, an abutment on the crank, a lug on the crank adjacent the abutment, an oscillator pivoted to the lug and adapted to strike the abutment in one extreme position of its oscillation and give an audible signal.

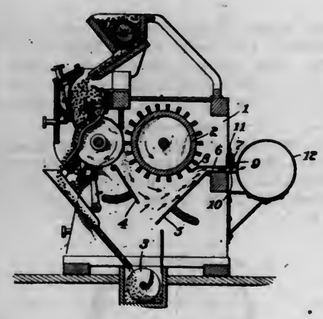
1,460,219. DRILLING MACHINE. GIORDANO ZILOCCKI, Granton, N. J., assignor of thirty per cent to Marino A. Monzione, North Bergen, N. J. Filed June 1, 1921. Serial No. 474,058. 11 Claims. (Cl. 77—25.)

1. A machine of the class described comprising a suitable frame, a carriage adjustably mounted in connection therewith, a chuck head adjustably mounted on said carriage and carried thereby, a plurality of chuck supporting shafts mounted in said chuck head, clutch devices movably mounted upon said shafts and keyed thereto to permit of the rotation of said shafts in one position of said clutch devices, means extending through said chuck head for actuating said clutch devices, and means



involving a plurality of lock arms for interlocking said chuck head with said carriage to retain said chuck head in connection with said carriage in different positions of adjustment.

1,460,220. PNEUMATIC APPARATUS FOR CLEANING, CONVEYING, AND RECOVERING LINT. GEORGE L. ALLEN, Savannah, Ga. Filed Feb. 12, 1921, Serial No. 444,322. Renewed May 11, 1923. 5 Claims. (Cl. 19—59.)

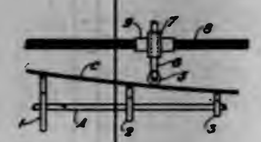


2. In apparatus of the character described a pipe line, a linter, a duct connecting the linter with the pipe line, a gate located in the duct and having a lower bevelled edge and means for independently adjusting the end portions of the gate that the lower edge thereof may be disposed at a desired angle to the plane of the lower wall of the duct.

1,460,221. MECHANISM FOR PRODUCING MOTIONS REPRESENTING A FUNCTION OF TWO INDEPENDENT VARIABLES IN CALCULATING APPARATUS. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Filed Aug. 26, 1921. Serial No. 495,548. 5 Claims. (Cl. 235—61.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

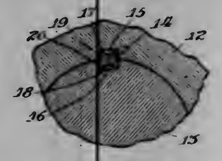
1. Mechanism for producing motions representing a function of two independent variables comprising a

beam capable of lateral deformation in a direction at or approximately at right angles to its surface, means for producing lateral deformation of the beam at a number of positions in its length, a contact member adapted to bear against the surface of the beam, means for



guiding the contact member in a direction parallel or approximately so to the direction of movement imparted in effecting the deformation, and means for affecting the longitudinal adjustment of the contact member on the beam relative to the positions of deformation, for the purposes set forth.

1,460,222. MACHINE KEY. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed May 26, 1922. Serial No. 563,961. 2 Claims. (Cl. 287—52.)



1. As an article of manufacture, a machine key made from relatively soft metal having longitudinal grooves on opposite sides thereby providing deformable portions adapted to be displaced into the grooves when the key is inserted in a keyway of less dimension than the key.

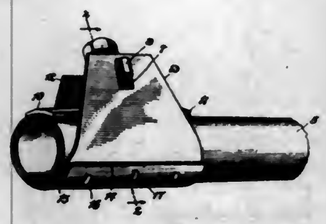
1,460,223. BURIAL VAULT. BENJIMAN MORTON BIRD, GEORGE C. BIRD, and DAVID P. BIRD, Maitland, Mo., assignors of one-half to J. B. Bridgman, Maitland, Mo. Filed July 11, 1922. Serial No. 574,195. 5 Claims. (Cl. 72—7.)



1. A burial vault having a skeleton frame provided with inner and outer linings of wall board to the latter of which is attached metal lathing covered by a plastic protective coating.

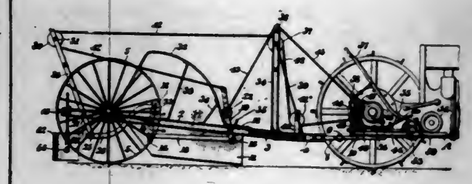
1,460,224. PIPE-REPAIR CLAMP. JEAN WRIGHT BLAIR, New York, N. Y. Filed Oct. 7, 1920. Serial No. 415,330. 2 Claims. (Cl. 24—19.)

1. A pipe repair clamp including a body portion comprising a plurality of sections, means adapted to cooperate with said sections adjacent their upper ends for retaining the same in applied position, one of said sections being formed with openings adjacent its lower end, said openings being arranged in a longitudinal series across the width of the section last mentioned, the second of said sections being formed with tongues arranged in a longitudinal series across the width of the



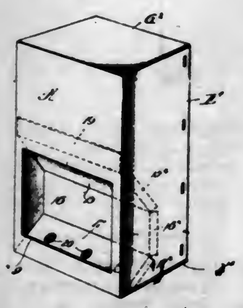
section last mentioned and adjacent its lower end, said tongues extending outwardly and towards the upper end of said section.

1,460,225. WHEELED GRADER. RHINEHARD BOLLHEIMER and EDWARD T. WILKENS, Fort Loramie, Ohio. Filed July 10, 1922. Serial No. 574,046. 13 Claims. (Cl. 37—126.)



1. A road grader comprising a wheeled frame, a scoop, levers attached intermediate their ends to the frame and at their lower ends fastened to the rear portion of the scoop, links connected at one end to the upper ends of the levers and at the other end to a pair of operating levers pivoted to the frame, uprights attached to the front end of the scoop, rollers carried thereby, tracks on which said rollers may run, and a single cable communicating movement to the operating levers and the roller carrying uprights to move them toward each other and thereby dump the scoop.

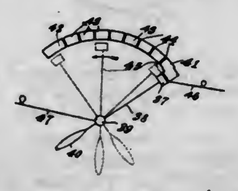
1,460,226. FEEDING HOPPER. OLIVER D. COLLIS, Clinton, Iowa. Filed May 31, 1921. Serial No. 473,722. 3 Claims. (Cl. 119—52.)



1. A collapsible container of the kind described, made from a single blank so formed as to provide a boxlike structure having in one of its walls an opening, and a partition within the structure arranged rearwardly of the opening and formed to provide a wall which is downwardly inclined from above the opening, also a

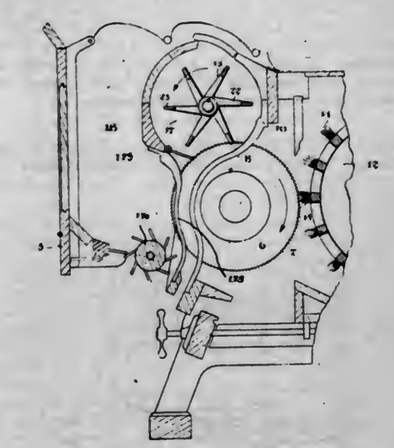
second wall which is substantially parallel therewith, and also a third wall which is upwardly inclined from below the opening, there being smaller openings in the third wall through which may be extracted loose material which lies close to the bottom of the container, substantially as described.

1,460,227. SPARK REGULATOR FOR RESTORING NORMAL IGNITION TO FOULED SPARK PLUGS. JULES COURTIER and PIERRE COURTIER, Paris, France; said Pierre Courtier assignor to said Jules Courtier. Filed Oct. 16, 1917. Serial No. 196,944. 3 Claims. (Cl. 175—183.)



1. A spark regulator of the character described comprising, a plurality of spaced stationary contacts providing sparking gaps therebetween, a movable contact adapted to travel by steps in proximity to the stationary contacts to form a spark gap with any selected one of the stationary contacts, and terminals connected with the movable contact and one of the end stationary contacts.

1,460,228. GIN RIB. FREDERICK B. CUMPSTON, Blooming, Tex. Filed Sept. 17, 1921. Serial No. 501,394. 5 Claims. (Cl. 19—55.)



1. The combination with a gin having a plurality of gin saws, of stationary ribs arranged between said saws, and rotatable ribs extended between said saws.

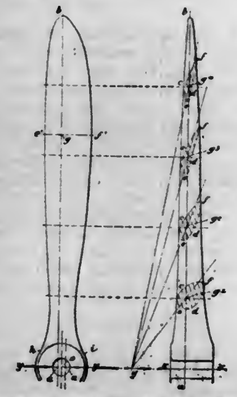
1,460,229. JACK. FRED H. DEAL, Bridgeton, N. J. Filed Feb. 14, 1922. Serial No. 536,605. 9 Claims. (Cl. 254—94.)

1. A jack for raising the wheels of a vehicle off the ground comprising an upright having an arm extending therefrom, a base member attached to the lower end of said upright and adapted to support said upright in equilibrium with the upright tilted forwardly, a leg extending downwardly at an angle from an intermediate portion of said upright and having a base member at its lower end, the base member on said upright being so



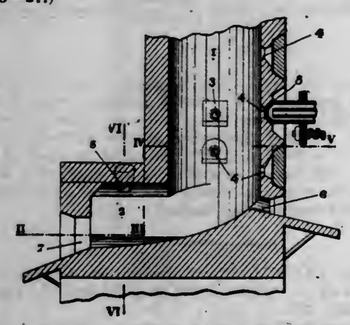
constructed that when the axle of a vehicle rides onto the arm the jack will be rocked to a position with both bases contacting with the ground.

1,460,230. PROPELLER. LOUIS DE MONGE, Paris, France. Filed Oct. 27, 1920. Serial No. 420,000. 2 Claims. (Cl. 170—159.)



1. An aircraft propeller whose configuration is determined by the fact that the point situated upon each cross-section of the blades at the anterior third part of the length (*e f*) and at the middle part of the width (*c d*) of the cross-section is located upon a straight line (*a b*) common to all the cross-sections of a given blade, the said straight line being situated in a plane perpendicular to the axis of rotation of the propeller and at a short distance therefrom.

1,460,231. APPARATUS FOR THE PRODUCTION OF STEEL. CHRISTIAN DE THAL, Paris, France. Filed Apr. 8, 1918. Serial No. 227,358. 2 Claims. (Cl. 263—27.)



1. A furnace for the direct production of steel, consisting of a vertical shaft or body part, a laterally ex-

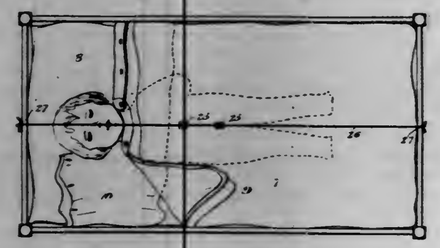
tending part at the lower end thereof in open and in uninterrupted communication with the said vertical shaft or body part, means for supplying heat in the said laterally extending part, and a series of holes in the said vertical shaft or body part for the reception of burners, substantially as described.

1,460,232. CONCRETE MOLD. GENERAL M. DITTO, Joliet, Ill. Filed Mar. 31, 1922. Serial No. 548,328. 7 Claims. (Cl. 25—121.)



7. In a mold for plastic materials, the combination of a body comprising a floor provided with a depressed portion along one edge, said floor terminating in upstanding side walls, molding bars removably secured to each of the side walls, one of said molding bars being suspended to overlie the depressed floor portion, gates for the opposite ends of the body, a plurality of socket members secured in parallel relation to the floor of the body and in transverse relation to the side walls, each socket member being arcuately channeled along its upper edge, a plurality of downwardly converging wedge shaped core pieces, each having its lower edge rounded to fit removably within the associated socket, and a dowel pin for each core piece and socket for removably holding the core piece within the socket, substantially as described.

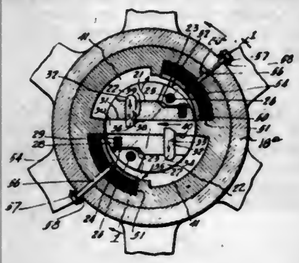
1,460,233. CRIB COVER. ELAINE MARTIN DREW, Barre, Vt. Filed Apr. 21, 1922. Serial No. 555,892. 1 Claim. (Cl. 5—336.)



A cover for cribs comprising two sections, each of which is provided with a cut-out portion serving to form a neck opening when the sections are placed together, means for securing the sections together to form a single cover, and a lining of lighter material for each of said sections, said linings extending to the outer face of the cover sections and so formed as to overlie the defining edge of the neck opening therein.

1,460,234. CLUTCH. RIO P. EILERS, Los Angeles, Calif. Filed July 27, 1920. Serial No. 399,303. 12 Claims. (Cl. 192—26.)

1. In combination, a drive member, a driven member, a wedge jaw carried by one of the members, an eccentric plate carried by the other member to be engaged by the jaw, and resilient means between the plate and the member that carries it adapted to be compressed, when the



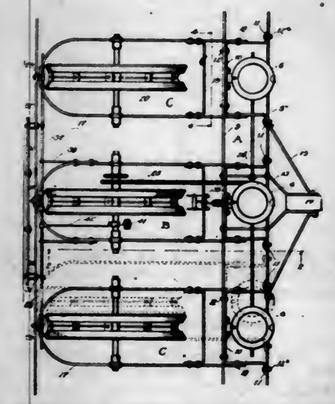
jaw engages the plate, to a point where it is no further resiliently compressible, so that the jaw and plate at first engage frictionally and then solidly.

1,460,235. CHAIN TIGHTENER. FRED VALENTINE FISCHER, Woodbine, Iowa. Filed June 16, 1922. Serial No. 568,815. 5 Claims. (Cl. 24—68.)



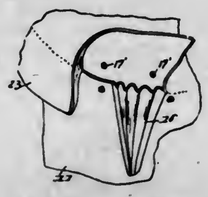
1. In a device of the character described, a chain tightener including an elongated body, a lever fulcrumed in said body, a link pivotally connected to one end of the lever and guided in its movement by one end of the body, and means whereby swinging of the lever varies the distance between the free end of the link and the other end of the body, said link terminating in a hooked extremity adapted to engage with a chain link, said lever terminating in an angular end adapted to overlie and cooperate with said hook to retain a link in place when the lever is moved to one extreme position.

1,460,236. THREE ROW PLANTER. RALPH L. FORD, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Dec. 8, 1919. Serial No. 343,393. 8 Claims. (Cl. 111—54.)



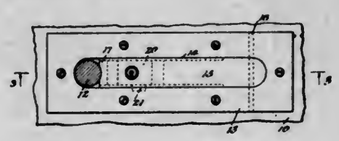
5. In a planter, a forward support comprising parallel transversely extending bars, a supporting bracket including laterally spaced arms mounted between said parallel members, a planting unit mounted between the arms of the bracket, a U-shaped trailer frame having its branches pivoted to the arms of the bracket for movement vertically, a suporting wheel journaled within the trailer frame in alinement with the planting unit and driving means between the wheel and planting unit.

1,460,237. RAINPROOF GARMENT. CHRIS FREEMAN, Blaine, Wash. Filed Oct. 22, 1921. Serial No. 509,546. 1 Claim. (Cl. 2—144.)



A rain-proof garment of one piece construction consisting of connected body and trousers members of which the latter is disconnected from the former at the back on a transverse waist line, the lower end of the back of the body member extending exteriorly below the waist line to provide a protective flap, the trousers members being provided adjacent its points of connection to the body member with accordion placket closing elements covered by the protective flap of said body member, fasteners carried on said flap on opposite sides of said placket closing elements, and corresponding fasteners disposed on the trousers member on opposite sides of said placket closing elements for engagement with the first said fasteners for the purpose specified.

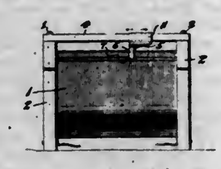
1,460,238. AUTOMOBILE LOCK. JULIUS H. FROST, New York, N. Y. Filed Apr. 11, 1922. Serial No. 551,603. 1 Claim. (Cl. 70—128.)



In an automobile lock, the combination with a slotted member having an operating lever extending through the slot, of a slotted plate secured to the member with its slot registering with the slot of said member and through which the operating lever also extends, a locking bar fitting in the slot of the plate and mounted at one end on a horizontal pivot at one end of the slot to swing in and out of said slot, the bar being of the length of the slot less the size of the operating lever, whereby when the bar is in the slot its free end will engage the operating lever and hold it in engagement with an end of the slot, and a lock secured to the under face of the free end of the locking bar, the bolt of the lock being engageable under the said plate.

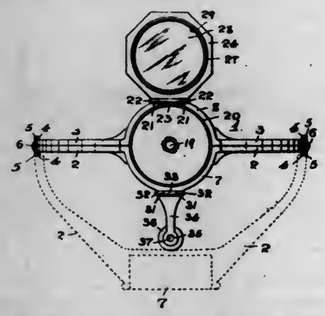
1,460,239. SLIDER FOR TUNING COILS. WILLIAM F. GEHAIG, Newark, N. J., assignor to Essex Specialty Co., Inc., Berkeley Heights, N. J., a Corporation of New Jersey. Filed Apr. 4, 1922. Serial No. 549,454. 1 Claim. (Cl. 219—56.)

In a device of the kind described, the combination with a tuning coil of a longitudinal slide rod having a polygonal cross-sectional shape, a self-locking slider, said slider comprising a bearing sleeve corresponding in cross sectional shape to the cross-sectional shape of said slide rod, said bearing sleeve embracing said slide rod so as to be movable back and forth thereon, and a downwardly curved contact finger extending from the under side of said bearing sleeve with its free end engaging the windings of said coil, said contact finger being under a normal



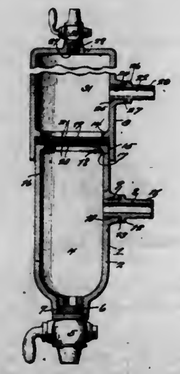
spring tension operating to cant or turn said bearing sleeve on said slide rod whereby the former is frictionally bound on the latter in the desired position to which it has been adjusted thereon.

1,460,240. COMBINATION BAG FRAME AND VANITY OR POWDER BOX. FREDERICK GOERTZ, Newark, N. J., assignor to August Goertz & Co., a Corporation of New Jersey. Filed Oct. 20, 1921. Serial No. 509,106. 15 Claims. (Cl. 150—29.)



12. A bag-frame comprising a pair of hinged frame-sections, said frame-sections being provided with oppositely projecting and laterally extending members adapted when said frame-sections are closed to provide a receiving portion, and means connected with one of said laterally extending members for closing said receiving portion.

1,460,241. GASOLINE FILTER FOR MOTOR-DRIVEN VEHICLES. GEORGE A. HALLAUER, Grover, S. Dak. Filed Oct. 2, 1920. Serial No. 414,232. 2 Claims. (Cl. 210—165.)



1. In a filtering device, a casing comprising upper and lower axially aligned sections, the former threaded over

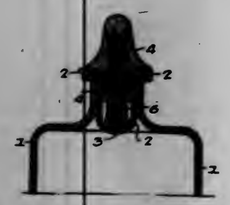
the latter and provided with an internal flange at the terminal of its threads, the marginal edge of the latter having an internal flange, filtering means clamped between the internal flanges of both sections and comprising lower discs of wire fabric, and upper circular pieces of chamois skin, said discs and chamois skin pieces being immediately adjacent each other and superimposed, means for connecting the upper section to a carburetor, an air pet cock for the upper section, a drain pet cock connected to the lower end of the lower section, the lower portion of the inner wall of the lower section curving into the passage of the pet cock to insure carrying off sediment, and means connected to the lower section at a point a substantial distance above the drain pet cock for connection with a gasoline supply.

1,460,242. SHAKING AND DUMPING GRATE. JESSE E. HANCOCK, Dupont, Ga., assignor of five per cent to F. B. Bullard, Dupont, Ga. Filed Sept. 23, 1922. Serial No. 590,088. 3 Claims. (Cl. 126—177.)



1. In a grate of the class described, a main frame, a brace beam extending longitudinally of the main frame at its center and dividing the main frame into halves, other brace beams extending transversely of the main frame and dividing the respective halves into a plurality of sections, a rock shaft extending longitudinally of the main frame beneath each half and journalled to the main frame, grate bar supporting frames fitting in said sections of the main frame and each fixedly mounted on a respective rock shaft, grate bars rockingly supported in the bar supporting frames, rock arms fixed on the respective rock shafts and constituting operating levers whereby to oscillate the rock shafts and tilt the bar supporting frames, means adjacent the main frame in alinement with the longitudinal brace beam to operate said rock arms, and independent means separate from the rock shaft oscillating mechanism and located adjacent the ends of the respective halves and centrally disposed with relation to said respective halves for rocking the bars of the respective sections.

1,460,243. SWAB STOPPER. GILBERT L. HARVEY, Philadelphia, Pa. Filed Nov. 8, 1920. Serial No. 422,539. 7 Claims. (Cl. 128—269.)

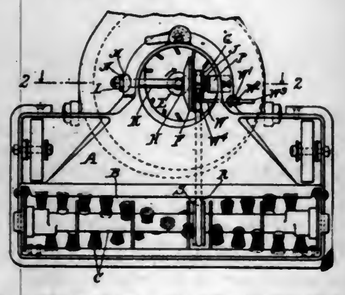


1. The combination of a closure for a medicinal solution container, said closure having a portion puncturable by a needle point; and an applicator carried by and enclosed within said closure.

1,460,244. PROCESS FOR THE MANUFACTURE OF FORMALDEHYDE. ARTHUR HEINEMANN, Berlin-Tempelhof, Germany. Filed June 12, 1922. Serial No. 567,809. 2 Claims. (Cl. 260—138.)

1. A process for the manufacture of formaldehyde from carbon dioxide and hydrogen, wherein carbon dioxide and hydrogen in the presence of steam are passed over porous substances at a temperature of about from 240 to 350 degrees centigrade.

1,460,245. SUCTION CLEANER. HOWARD EARL HOOVER, Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Sept. 4, 1917. Serial No. 189,431. 5 Claims. (Cl. 15—9.)



1. In a suction cleaner the combination of a casing having an inlet mouth with a brush, a driving shaft, a friction driving pulley thereon, a fan driven by the shaft, a speed reduction driving connection between the shaft and the brush containing a frictional pulley and a belt pulley connected together and a stud on which the two pulleys are slidably and rotatably mounted and a cap to enclose the end of the stud adjacent the pulleys and yielding means engaging the cap to hold the friction pulley in operative position.

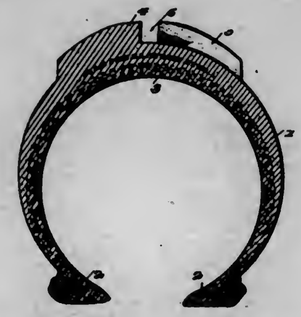
3. In a suction cleaner the combination of a motor with a brush, an intermediate speed reducing transmission mechanism and separate driving connections between the motor and the transmission mechanism and the brush and the transmission mechanism, a stud upon which such mechanism is mounted secured at one end to the casing said stud being provided with a channel leading from the outside of the casing to the interior thereof at the transmission mechanism.

1,460,246. LOCKING LAMP. HARVEY HUBBELL, Bridgeport, Conn. Filed June 18, 1921. Serial No. 478,502. 14 Claims. (Cl. 176—31.)



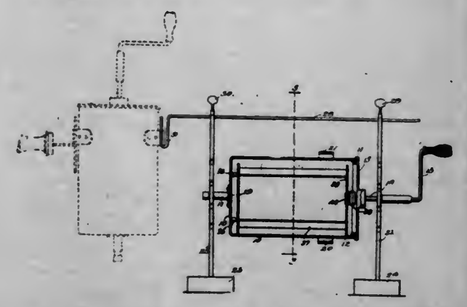
1. An electric lamp comprising a bulb, an inner ferrule secured to said bulb, a contact member connected with but insulated from said inner ferrule, conductors leading from said bulb and connected with said contact member and ferrule respectively, an outer ferrule mounted to turn on said inner ferrule, and adapted for attachment to a lamp socket, said ferrules also adapted for relative longitudinal movement, and a spring connected to one of the ferrules and located between them, said spring and the other ferrule being provided with coacting shoulders to cause said outer ferrule to turn with the inner ferrule when said ferrule is turned in one direction, said spring also adapted to prevent return of the ferrules to their normal position after relative longitudinal movement.

1,460,247. TIRE. JOHN GEORGE JOHNSON, Gordon, Pa. Filed May 29, 1922. Serial No. 564,479. 3 Claims. (Cl. 152—14.)



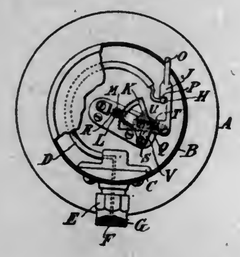
1. A tire body having a tread portion formed with a pair of circumferentially extending series of spaced apart transversely disposed bosses upon the outer periphery thereof, the bosses of the two series being arranged with their inner ends spaced apart and equi-distant from the plane of the longitudinal median line of the tire body, thus producing a circumferential channel extending along the longitudinal median line of the tire body between the two series of bosses, and each boss being thickest adjacent to its inner end and widest at its inner end and decreasing regularly in width toward its outer end, the outer surfaces of said bosses being spaced from the tire body throughout the length of the bosses.

1,460,248. COOKING DEVICE. MICHAEL KOTT, New York, N. Y. Filed June 26, 1922. Serial No. 570,854. 6 Claims. (Cl. 53—5.)



1. A cooking device of the class described, comprising a drum having a removable end and a steam escape opening in the other end, removable means for supporting the victuals to be cooked in the drum, means for rotatably mounting said drum above a source of heat, and means for rotating said drum.

1,460,249. PRESSURE GAUGE. HENRY P. KRAFT, Ridgewood, N. J. Filed May 2, 1919. Serial No. 294,267. 7 Claims. (Cl. 73—109.)



1. A pressure gauge having a rotary indicating member, pressure responsive means, a sector cooperating with said means for rotating said member, means for maintaining said member in pressure indicating position, and manually operable means permanently connected to said sector and extending to the exterior of the gauge for resetting said indicating member.

1,460,250. VALVE CAP. HENRY P. KRAFT, Ridgewood, N. J. Filed Apr. 3, 1920. Serial No. 370,996. 4 Claims. (Cl. 152—12.)



1. A cap for valves, or the like, having a screw-threaded interior, a swivel member carrying a packing washer within said cap above said screw-threaded portion, said swivel member having a substantially flat bearing face contacting with the interior of the cap and of a diameter less than that of the screw threads, whereby the swivel member and packing washer may be inserted into the cap as a unit through the open end thereof and held therein by the action of the packing washer.

1,460,251. WATERPROOFING COMPOSITION AND METHOD OF MAKING THE SAME. GEORGE W. KRAMER, Chicago, Ill. Filed Aug. 31, 1921. Serial No. 497,382. 16 Claims. (Cl. 134—15.)

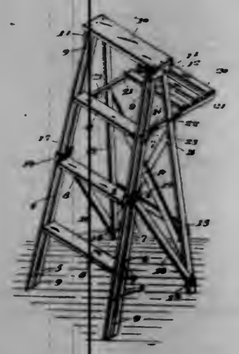
6. A composition of matter comprising wax, aluminum oleate and turpentine in substantially the proportions stated.

16. The process of emulsifying a normally solid waterproofing substance by mixing it in a molten state with an aqueous solution of soap, reacting on the soap solution with a metallic salt to produce a substantially water insoluble soap, allowing it to cool, and adding a thinner.

1,460,252. STEPLADDER. CHARLES W. KRATHWOHL, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,785. 1 Claim. (Cl. 228—29.)

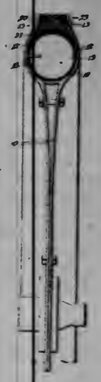
The combination with a ladder composed of laterally spaced side bars and steps extending therebetween; of a supporting leg pivoted to the upper portion of the ladder, said leg consisting of laterally spaced bars and connections therebetween, stay bars pivoted at one end

to the leg bars, and straps pivotally connected to the other ends of the stay bars and slidably straddling the



ladder side bars, into the path of which straps a step of the ladder extends to limit the downward travel of the straps on the ladder side bars.

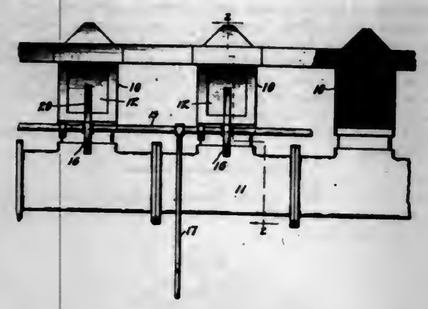
1,460,253. WHEEL. THOMAS C. LACKLAND, Atlanta, Ga. Filed Jan. 27, 1922. Serial No. 532,116. 2 Claims. (Cl. 152—10.)



1. A wheel comprising opposed disk like members formed to provide an annular chamber, a cushioning member made up of a plurality of inflatable units arranged side by side, a fabric casing enclosing all of said units, a valve stem casing wholly disposed within each unit and horizontally disposed, said valve stem casing being wholly concealed from view by one wall of said chamber, and a solid tire supported by said cushioning member and arranged between the walls of said chamber.

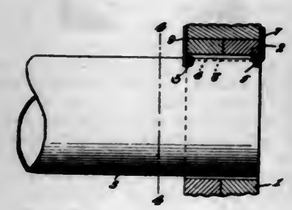
1,460,254. HOLLOW-BLAST GRATE BAR. THOMAS LOUIS LA MALTA, Memphis, Tenn. Filed Apr. 19, 1919. Serial No. 291,337. 3 Claims. (Cl. 110—74.)

1. A hollow grate bar connected near one end with a blast line, a door pivoted at its upper edge to the bar at the opposite end and swinging inwardly, a curved arm pivoted adjacent the door and adapted to swing with its extremity within the bar and a cam carried upon the extremity adapted to engage and open the



door and provided with means for supporting the door in open position and co-operating with the door to prevent return movement of the arm.

1,460,255. STOVEPIPE LOCK. BLANCHE LEACH, Reno, Nev. Filed Dec. 23, 1922. Serial No. 608,692. 1 Claim. (Cl. 126—318.)

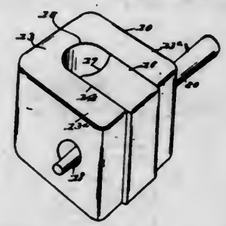


The combination with a chimney having a pipe opening, and a pipe section to be received in said opening which has its seam formed with a channel, of a means for locking the pipe section to the chimney, comprising a shaft received in the groove of the pipe section, plates straddling the shaft and secured to the pipe section, said shaft having one end terminating with one end of the pipe section and arranged at a right angle with respect to the longitudinal plane of the shaft, said shaft having its opposite end extended at an obtuse angle and from thence bent at a right angle to provide a handle designed for bodily turning the shaft and the first mentioned end to bring the latter in the direction of the bore of the chimney to permit of the insertion of the pipe section through the opening therein and to also permit of the handle end of the shaft being brought into contact with the outer face of the chimney and thereafter further turned to bring both ends of the shaft into contacting engagement with the respective inner and outer faces of the chimney.

1,460,256. POLISH-ROD CLAMP. HAWLEY B. LEFLER, Grand Bayou, La., assignor of one-half to D. E. France Russell, Grand Bayou, La. Filed Sept. 29, 1922. Serial No. 591,268. 3 Claims. (Cl. 24—263.)

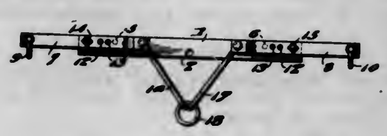
1. A polish rod clamp having a transversely U-shaped body member provided with a throat terminating in a seat for the reception of a drill rod, a follower block fitted in the throat of said body member and movable

toward and from the seat in the latter, and a tapered or wedge pin transversely engaging registering openings



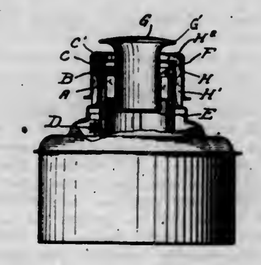
in said body member and follower block for advancing the latter toward the said seat to clamp a rod interposed between the same and the seat.

1,460,257. DRAFT EVENER. MILLARD E. LEIGH, Burley, Idaho. Filed July 8, 1920. Serial No. 394,698. 1 Claim. (Cl. 278—4.)



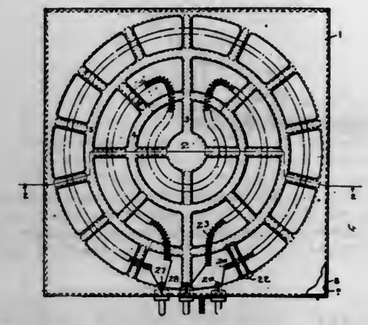
A draft evener comprising with a draft bar having a hitch opening at its center and a plurality of spaced openings adjacent each end, a pair of substantially U-shaped evener bars each having a plurality of spaced openings formed through their middle portions and alined through the two legs, pivot means passed through the openings of said draft bar and evener bars to pivotally mount the evener bars, U-shaped draft members with up-turned ends pivoted in the extremities of the two legs at the inner ends of each of said evener bars, a hitch ring connected in the loops of said draft member, and hitch connections provided at the outer looped ends of said draft bars.

1,460,258. OIL STOVE. WALTER C. LINDEMANN, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed Feb. 21, 1920. Serial No. 360,457. 2 Claims. (Cl. 67—66.)



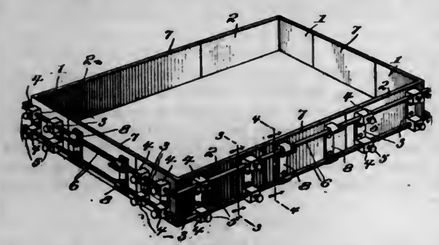
1. In a burner the combination of an inner cylindrical wick tube, adapted to be surrounded by a wick, an outer wick tube concentric therewith and a font upon which the latter is mounted, said outer wick tube having an upper portion extending above the inner wick tube and turned inwardly over the space between the two tubes to form a wick stop, and an outwardly turned lower portion fitting over a portion of the font, whereby a removable connection between said tube and font is formed, the said outer wick tube and its said parts being integral and forming one piece or part of the burner, and a surrounding shield and air deflector removably mounted exterior to said outer wick tube, having members extending inwardly to contact with the exterior of said tube and downwardly to contact with the said lower portion thereof, and maintaining the same in laterally and vertically spaced relation thereto.

1,460,259. ELECTRIC HEATING DEVICE. WALTER C. LINDEMANN, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed Mar. 28, 1922. Serial No. 547,585. 14 Claims. (Cl. 219—19.)



1. An electric heating unit comprising upper and lower sections forming a housing for the unit, each part provided with a portion of a resistance element supporting and insulating device, upper and lower insulating device parts supported in said housing parts, each having a recess therein, and the two recesses formed to produce when brought opposite each other apertures for receiving a resistance element, and a resistance element in said apertures and supported by the insulating device, and means for securing the said upper and lower parts together.

1,460,260. DRYING FRAME. HOMER H. LITCHFIELD, Rockford, Ill. Filed June 26, 1922. Serial No. 570,793. 1 Claim. (Cl. 271—86.)

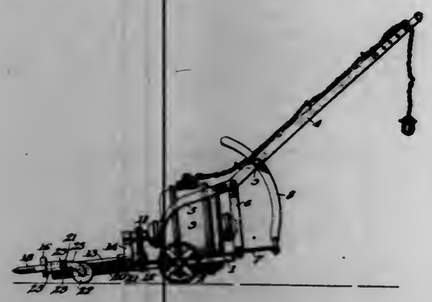


In a drying frame, right angular corner members comprising branches, one of which branches is shorter than the other, spaced eyes on the outer faces of the corner members, rods passing therethrough, binding elements passing through the eyes contacting the rods for holding the corner members adjusted with respect to each other, filler plates between the corner members when the latter are extended, and spring clamps on the outer faces of the filler plates for engaging the rods.

1,460,261. LAWN TRIMMER. THOMAS W. MARTIN, Hibbing, Minn. Filed Nov. 1, 1920. Serial No. 421,059. 6 Claims. (Cl. 56—266.)

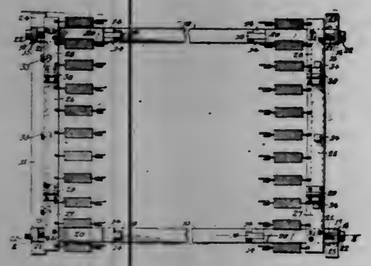
1. An apparatus for trimming hedges and mowing lawns, comprising a wheeled support, a shaft disposed

in the direction of movement of the support, a sickle blade and guard therefor disposed at right angle to the shaft and mounted for pivotal movement about the same as center so as to occupy either one of two positions in the same horizontal plane on opposite sides of



the shaft or any intermediate position and means constructed and arranged for translating the rotary motion of the shaft into reciprocating motion of the sickle blade in all angular positions of the blade relatively to the shaft.

1,460,262. BEDSPRING SUPPORT. WILLIAM H. MATTHEWS, Newburgh, N. Y. Filed June 12, 1922. Serial No. 567,637. 4 Claims. (Cl. 5—202.)



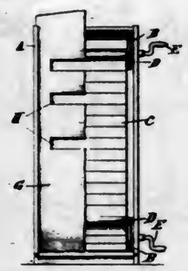
1. A bed spring support comprising spaced side rails, bracket devices adjustably coupled to the head and foot portions of the side rails, transverse members, each in a plurality of hingedly united sections connected to the bracket devices, said hingedly united sections adapted to support a bed spring, and transverse supporting members detachably connected to the hingedly united members.

1,460,263. METALLIC SHEET PILING. JOHN VER MEHR and JOHN S. OWENS, London, England. Filed Mar. 10, 1922. Serial No. 542,700. 2 Claims. (Cl. 61—60.)



1. A metal piling member composed of two straight limbs one of which is disposed at an angle of 135° to the other and having interlocking means formed integrally therewith upon each of its two longitudinal edges.

1,460,264. APPLIANCE FOR DISPLAYING COLORS. MAUD MAPLE MILES, Lombard, Ill. Filed June 27, 1919. Serial No. 307,177. 5 Claims. (Cl. 88—14.)



1. A ribbon having a color scale thereon, comprising a series of hues the wave lengths of which bear substantially the same relation to each other as the wave lengths of a series of notes which comprise a musical scale.

1,460,265. MUSIC-LEAF TURNER. ANDREW H. MILLS, Warsaw, Ind. Filed Aug. 3, 1921. Serial No. 489,524. 5 Claims. (Cl. 84—504.)

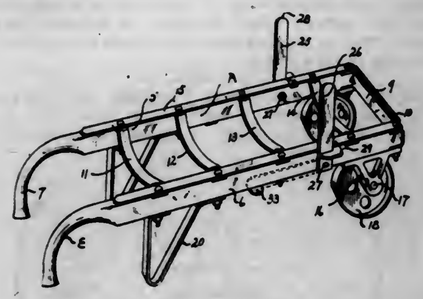


3. In a music leaf turner, a support having a plurality of concentrically arranged guideways, a standard rising from said support, a follower device movable in each of said guideways and having an upwardly projecting pin, a plurality of leaf holding devices swinging upon said standard and over said support, and each having a stud projecting into the path of one of said pins, a spring controlled winding drum associated with each of said guideways, a pull member attached at one end to each of said drums, and at the other end to one of the followers, a stop pawl for each of said followers to hold it in initial position against the action of the winding drums, and means under the control of the player for independently releasing said pawl.

1,460,266. HAND TRUCK. JOHN S. MONROE, Memphis, Mo. Filed June 19, 1922. Serial No. 569,397. 2 Claims. (Cl. 280—83.)

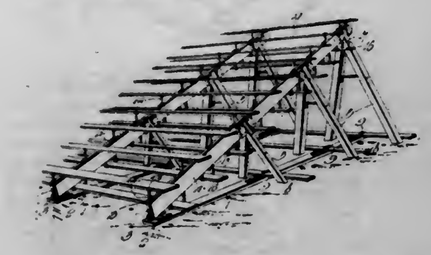
1. The combination with a truck including side beams, of arms secured to said side beams and arranged in opposed relation, said arms being normally disposed at substantially right angles to the side beams, stop members on the side beams to be engaged by the arms when in normal position to prevent movement of the

arms in one direction, said arms being adapted to be disposed parallel with the side beams when not in use, additional stop members on the side beams and in spaced



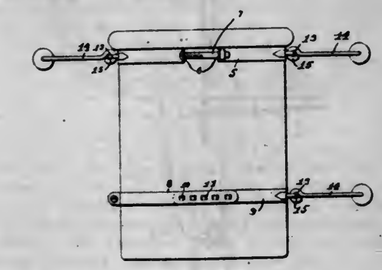
relation with the first stop members to support the arms parallel with the side beams and rounded terminals on said arms disposed in the plane of the faces of the arms.

1,460,267. PORTABLE BLEACHER. HENRY D. OBERDORFER, Champaign, Ill. Filed June 12, 1922. Serial No. 567,700. 2 Claims. (Cl. 304—1.)



1. The combination with a portable stand including a horizontal sill and an inclined seat-supporting stringer resting thereon at its lower front end; of a U-shaped strap secured to said sill and having its intermediate portion bent upwardly therefrom extending in advance of and surrounding the front end of said stringer, and an anchoring bracket secured to said end and removably seated in the bight portion of the strap.

1,460,268. HOOP FOR LIFTING CROCKS. FRANK OTTMAN, Utica, N. Y. Filed Apr. 10, 1922. Serial No. 551,064. 1 Claim. (Cl. 294—15.)



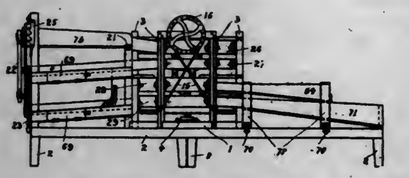
In a device of the character described, a sectional band, each section having depressed portions, loop members having angular end portions extending through the sections and seated in the depressed portion, handles secured to the loop portions, and means for moving the adjacent ends of sections with respect to each other to adjust them on a receptacle.

1,460,269. BOTTLE CAP. CHARLES C. PARKER, Baltimore, Md. Filed July 13, 1921, Serial No. 484,343. Renewed May 8, 1923. 6 Claims. (Cl. 215—51.)



1. A milk-bottle closure comprising a paper disk having a body portion adapted to fit the recess in a milk bottle mouth and having a flange folded inwardly over the body and thence outwardly upon itself, the height between the bottom of the body portion and the outward fold of the flange being substantially less than the distance between the shoulder in the bottle and the top of the bottle.

1,460,270. FRUIT-GRADING MACHINE. FREDERICK BOWMAN PURCHAS, Hitchin, England. Filed Oct. 31, 1922. Serial No. 598,142. 20 Claims. (Cl. 130—32.)



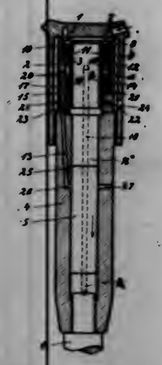
1. A fruit grading machine comprising a rotating grading disc having a zone of apertures therein and a central aperture within said zone and of larger diameter than the apertures in the zone, and stationary guiding means adapted to feed the fruit across the zone of apertures in the rotating disc towards the central aperture.

1,460,271. TRACE CARRIER. WILLIAM F. RAMIGE, Rockwell City, Iowa. Filed June 21, 1922. Serial No. 569,977. 2 Claims. (Cl. 54—56.)



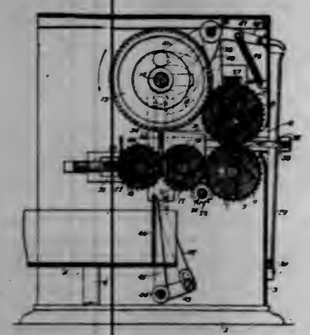
2. A trace carrier comprising a base frame having within its perimeter a pair of upstanding guards, integral transverse members having inward extending hooks, the end portions thereof terminating above the plane of said transverse members, a cross bar centrally positioned and maintained above the plane of the base frame, a flat spring of greater length than the distance between the ends of the hooks, said spring being attached to the cross bar to position its ends beyond the inward extending ends of the hooks, the parts, excepting the spring and cross bar to which the spring is attached, being integral.

1,460,272. PNEUMATIC RIVETER. ERNST REHFELD, Berlin, Germany, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Dec. 27, 1921. Serial No. 525,191. 1 Claim. (Cl. 121—28.)



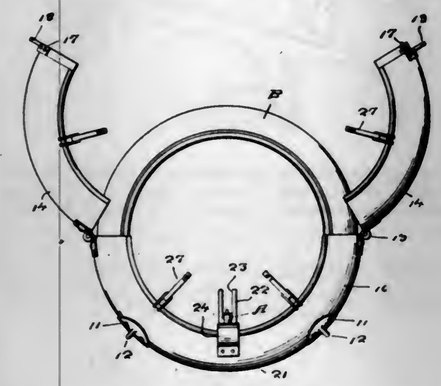
A pneumatic tool comprising a cylinder and a piston reciprocating therein, a compressed air conduit and a tubular valve forming an extension of the cylinder and in which said piston is adapted to travel controlling the inlet and exhaust for both the in and out stroke, said valve having two pairs of surfaces adapted to be acted upon by the compressed air from the said air conduit, one surface of one pair being adapted to shift the valve forwardly, the other surface of said pair being adapted to hold the valve forwardly, one surface of the other pair being adapted to shift the valve rearwardly, the other surface of said second pair being adapted to hold the valve rearwardly, the pressure on one surface of one pair of surfaces being relieved when pressure is applied to one surface of the other pair, and the pressure to the holding surface of the first pair being cut off when pressure is applied to the holding surface of the other pair, ports and passages connecting the cylinder and said surfaces and controlled by the piston whereby air is admitted to actuate said piston.

1,460,273. FOLDING MACHINE. MARTIN O. REHFUSS, Philadelphia, Pa., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1918. Serial No. 252,747. 1 Claim. (Cl. 270—82.)



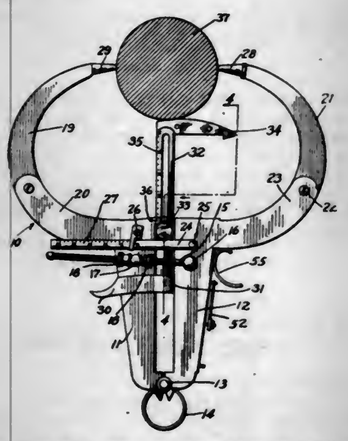
The combination in a folding machine of a casing having in its front wall a transverse slot; a substantially vertical guideway on the front wall of the casing for supporting a sheet so that it extends across said slot; a folding blade movable through the plane of the guideway into the slot; a pair of folding rolls mounted in the casing one above the other in position to receive a sheet forced through the slot by the blade; a second pair of folding rolls parallel with the first rolls; a second folding blade movable across the plane of movement of a sheet folded by the first rolls; and means for actuating the rolls and the blades.

1,460,274. COMBINED TIRE CARRIER AND COVER. THOMAS A. RIANDA, Gonzales, Calif. Filed Nov. 22, 1921. Serial No. 517,132. 4 Claims. (Cl. 224—29.)



1. A device of the character described comprising a relatively stationary shell member of semi-circular form adapted to support a tire, a pair of quarter-circular shell members hingedly connected with the ends of said first named shell member, and means for securing together the free ends of the last named shell sections in interengaging relation, the assembled sections being adapted to entirely enclose a tire mounted upon a rim, and means engaging the rim for centering the tire with respect to the assembled sections whereby to hold the tire spaced away from the shell at all points.

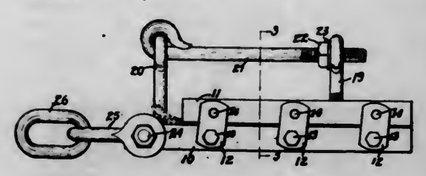
1,460,275. CALIPERS. ANGUS BÉLANGER and FREDERICK P. RICHES, Montreal, Quebec, Canada. Filed Nov. 11, 1920. Serial No. 423,387. 4 Claims. (Cl. 33—148.)



1. In a pair of calipers, the combination of a pair of pivoted plates, a spring connecting said plates, a gauge

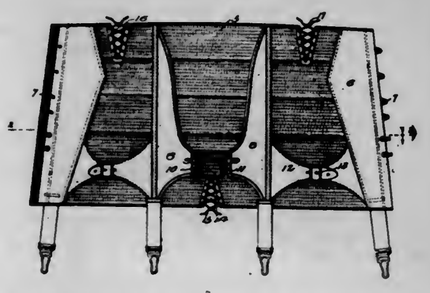
cooperating with said plates to indicate the space between the swinging ends thereof, arms carried by said plates, one of said arms being pivotally mounted, points carried by the arms, and an indicator carried by one of the plates and actuated by the movement of said pivotally mounted arm for indicating fractions of an inch.

1,460,276. CABLE CLAMP. JOHN A. ROBERTSON, St. Joseph, Mo. Filed Apr. 7, 1922. Serial No. 550,301. 7 Claims. (Cl. 24—132.)



1. A clamp comprising a pair of alined members adapted to move longitudinally in opposite directions to clamp a cable or the like between them and means connecting the members at one side to permit hinge-like opening of the clamp, substantially as set forth.

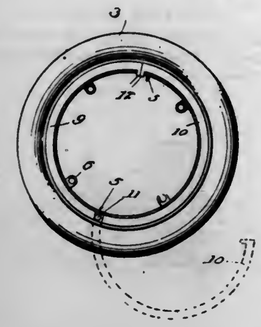
1,460,277. GARMENT. ABRAHAM ROCKE, New York, N. Y., assignor to Peerless Corset Co., Inc., New York, N. Y., a Corporation of New York. Filed May 27, 1922. Serial No. 564,015. 1 Claim. (Cl. 2—73.)



In a garment, a body formed of a single piece of resilient material, reinforcing strips at the ends thereof, other reinforcing strips secured to the central portion thereof in spaced relation to each other, a resilient strip connecting adjacent edges of the last named reinforcing strips, and adjusting straps connecting the central reinforcing strips with the reinforcing strips at the ends of the body.

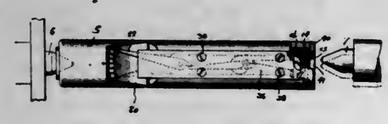
1,460,278. DEMOUNTABLE RIM. JOSEPH B. ROESCH, Old Forge, Pa. Filed Feb. 21, 1922. Serial No. 538,217. 1 Claim. (Cl. 301—11.)

A demountable rim having a tire shoe heel engaging means on one side thereof and a peripherally disposed channel formed therein adjacent its opposite side, a clamping ring receivable over that portion of the rim having the channel therein engageable with the opposite side of the tire shoe and having an undercut side, a locking ring having an interior diameter the same as the exterior diameter of the bottom of the channel of said rim and receivable within said channel, said locking ring composed of two eccentrically pivoted segments, said segments being formed of spring material and having inwardly disposed fingers formed upon the free extremities thereof, the bottom of the channel of said rim having an opening therein whereby one segment of said locking ring may be placed within said channel and the other or longer segment of the locking ring may be snapped within said channel when the fingers of said



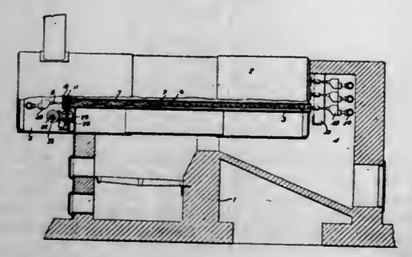
segments are arranged in abutting relation and forced within said opening and the undercut side of said clamping ring being adapted to engage over the locking ring.

1,460,279. CENTERING DEVICE. LEONHARD J. ROSBACH, Brooklyn, N. Y. Filed Mar. 19, 1921. Serial No. 453,838. 10 Claims. (Cl. 33—181.)



1. In a centering tool, a supporting frame, a center receiving socket at one end thereof, a second center receiving socket mounted for angular displacement at the other end of the frame and having a socket recess extending across the axis of the socket support, together with indicating means actuated by the movement of said angularly displaceable socket.

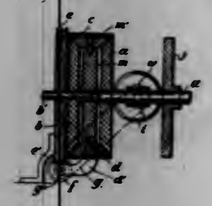
1,460,280. BOILER AND HEATER. PETER O. ROTH, New York, N. Y. Filed July 21, 1921. Serial No. 486,409. 8 Claims. (Cl. 110—97.)



1. In a device of the character described, the combination with a boiler having flues, of means for retarding the passage of the flame and the products of combustion through said flues, said means comprising a central supporting member extending longitudinally through each of said flues, a plurality of sleeves rotatably mounted on said supporting member and provided with spiral formed

webs, each of said sleeves having an overhanging section for transmitting rotary motion to the next adjacent section, and means for rotating the end sleeve in each of the flues.

1,460,281. REGULATING GEAR. EDMUND SCHRÖDER, Berlin, Germany. Filed Aug. 24, 1921. Serial No. 495,146. 1 Claim. (Cl. 74—34.)



A planet-wheel change-speed gear, comprising, in combination; a planet-wheel gear composed of two co-axial wheels, two planet-wheels located oppositely to each other between said co-axial wheels and meshing with them and of a planet-wheel carrier loosely rotatable between the co-axial wheels; a stationary worm-wheel arraged at the free side of one of the said co-axial wheels; a worm meshing with said worm-wheel and being supported by the planet-wheel carrier; a shaft passing through the worm-wheel and having the adjacent co-axial wheel secured to it and supporting the planet-wheel carrier; another shaft arranged co-axially to the former and having the other co-axial wheel affixed to it; a friction disk also affixed to said latter shaft at some distance from the respective co-axial wheel; another friction disk located between this wheel and the first-mentioned friction disk at right angles to both; a shaft having said other disk secured to it; a shaft having the said worm affixed to it and extending parallelly to the shaft of the last-mentioned disk; and means for transmitting rotary motion from the disk shaft to the worm shaft, substantially as set forth.

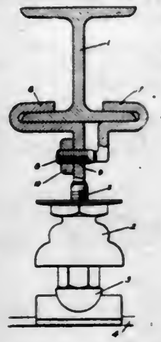
1,460,282. OWNER'S IDENTIFICATION MEANS FOR PROTECTING AUTOMOBILES AGAINST THEFT. THOMAS SHILL, Highland Park, N. J. Filed Feb. 15, 1922. Serial No. 536,700. 6 Claims. (Cl. 40—22.)



1. In an automobile in combination with a metal part of the body of the vehicle formed with a series of perforations, a flanged tubular body inserted in each perforation, each tubular body being formed with a closed end-wall to prevent water from entering back of said body.

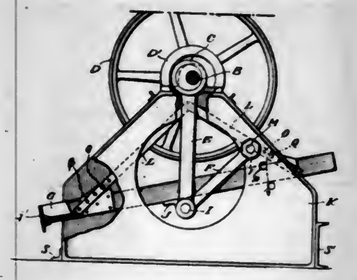
1,460,283. ATTACHING CLAMP. STEPHEN J. SHUTSA, Uniontown, Pa. Filed Apr. 18, 1922. Serial No. 554,490. 1 Claim. (Cl. 191—40.)

In combination with an I-beam, of a means for supporting a trolley wire therefrom, including a hook to engage one side of the lower flange of the I-beam, said hook having a rightangular flattened shank merging into a threaded portion and which shank is disposed directly below the center of the I-beam, a second hook to engage the second side of the lower flange of the I-beam having a depending portion terminating in an angularly threaded extension that passes through the flattened shank of the



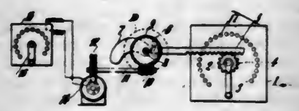
first mentioned book, a nut screwed on said threaded extension for clamping the jaws on the lower flange of the I-beam, and means on the threaded extension of the flattened shank of the first mentioned jaw for clamping a trolley wire thereto.

1,460,284. ADJUSTABLE SHAKING SCREEN. EDWARD S. STADELMAN, Chicago, Ill. Filed Aug. 3, 1922. Serial No. 579,401. 5 Claims. (Cl. 83—56.)



1. A shaking screen having a drive shaft, a screen frame, and means suspending said screen frame from said shaft and tending to impart movement to the screen frame from the drive shaft, in combination with adjustable means restricting said screen frame to curvilinear motion and other means adjustably controlling the inclination of said screen frame.

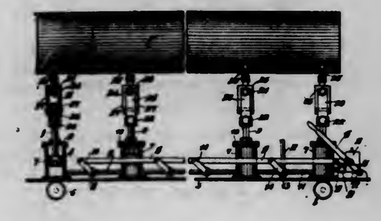
1,460,285. METHOD AND APPARATUS FOR DRAWING GLASS CYLINDERS. THOMAS STENHOUSE, Washington, Pa., assignor, by direct and mesne assignments, of one-sixth to Alexander L. Duval D'Adrian, Washington, Pa., and one-sixth to Bernhard F. Drakenfeld, jr., New York, N. Y. Filed Nov. 25, 1919. Serial No. 340,629. 6 Claims. (Cl. 49—17.1.)



3. In mechanism to control the speed of acceleration of drawing glass cylinders, a movable part controlling the

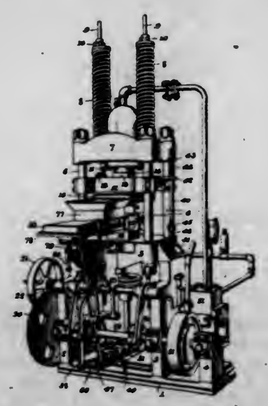
operation of the drawing apparatus, and mechanism to automatically actuate said movable part, including a rectilinearly movable element, a cam coacting with said element, and means to operate said cam at a predetermined speed whereby the speed of the drawing operation is automatically increased in proportion to the decrease in temperature of the glass.

1,460,286. METHOD OF AND APPARATUS FOR SUPPORTING GLASS CYLINDERS. THOMAS STENHOUSE, Washington, Pa., assignor, by direct and mesne assignments, of one-sixth to Alexander L. Duval D'Adrian, Washington, Pa., and one-sixth to Bernhard F. Drakenfeld, jr., New York, N. Y. Filed Nov. 25, 1919. Serial No. 340,630. 20 Claims. (Cl. 49—48.)



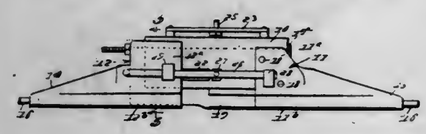
16. In a support for glass cylinders, a plurality of spaced supporting units, each including a cylinder and a piston operating therein, a supporting saddle for the glass cylinder, mounted upon each of the pistons, and transversely movable relative to the axis of the cylinder, fluid supply means connecting and affording communication between the several cylinders, the fluid medium in the respective cylinders exerting a variable sustaining influence upon the pistons thereby to equally distribute the weight of the glass cylinder between the supports, and manually operable valves for closing communication between said cylinders to maintain the sustaining influence of the fluid medium constant and lock the supports against vertical movement during the severance of the glass cylinder into sections.

1,460,287. TILE PRESS. FRANCIS E. STEVENSON, Mount Gilead, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed Mar. 10, 1922. Serial No. 542,623. 19 Claims. (Cl. 25—55.)



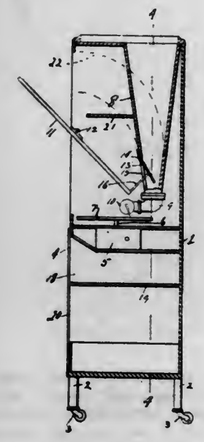
1. A press comprising a fixed lower die, a mold surrounding said die and having its top movable to register with the top of the die, a charging device, means for moving the charging device so that the material carried thereby overlies the die, means for raising the mold and charging device, the means for moving the charging device acting after said movement is completed to withdraw the same leaving the material in the mold, an upper die, and means for moving said upper die to compress the material in the mold.

1,460,288. TROLLEY-WIRE CUT-OUT SWITCH. THOMAS A. THOMAS, Amherstdale, W. Va. Filed July 15, 1921. Serial No. 484,960. 4 Claims. (Cl. 191—39.)



1. A cut-out switch for trolley lines having a body portion consisting of a block of insulating material, terminals carried by said block and provided with means for connection with the adjacent extremities of trolley wire sections, and a switch mounted upon the body portion for simultaneous engagement at its extremities with contacts on said terminals, one of said terminals being longitudinally movable on the block relative to the other terminal and means for securing the same in its adjusted positions.

1,460,289. TALKING-MACHINE CABINET. NICK TOTA, Camden, N. J. Filed June 13, 1922. Serial No. 567,927. 2 Claims. (Cl. 274—2.)

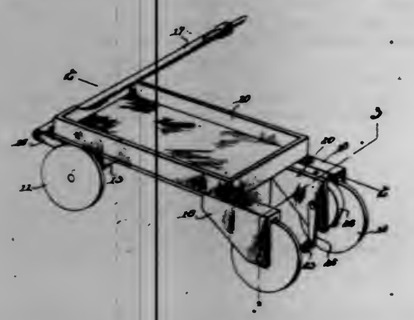


1. In a talking machine cabinet, in combination, a horn mounted therein and having a cut out portion, a baffle pivoted in said horn to normally close said cut out portion and adapted to be swung into the horn for directing some of the sound waves passing through the horn, means to normally close a portion of the cabinet, and means to pivot said cabinet closing means whereby it may be swung to a position for actuating the baffle.

1,460,290. WAGON. BENJAMIN B. TROMBLEY, Syracuse, N. Y. Filed July 7, 1922. Serial No. 573,365. 3 Claims. (Cl. 208—53.)

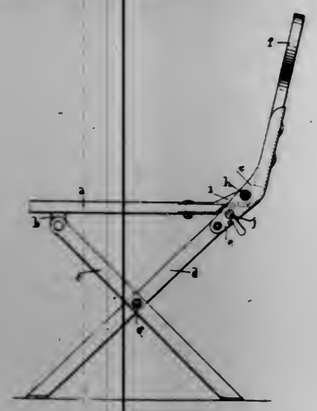
1. A toy wagon comprising a wagon body, front and rear wheels, means for guiding the wagon, bearings pro-

jecting rearwardly from the wagon body for said rear wheels, a step depending from the rear of the wagon body and arranged adjacent one of said bearings, a partition projecting from the wagon body and arranged in juxta-



position to the other bearing, a shaft journaled between said partition and the adjacent bearing, foot operated means for rotating said shaft, and gearing connecting the said shaft with the axle of the adjacent wheel for the purpose specified.

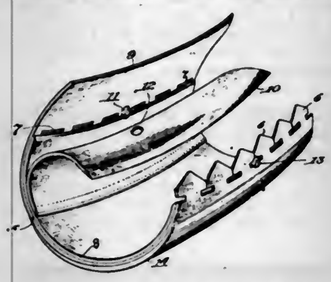
1,460,291. FOLDING SEAT. ANTOINE TRUFFY, Courbevoie, France. Filed Feb. 20, 1920. Serial No. 360,250. 2 Claims. (Cl. 155—147.)



1. A folding seat, comprising a seat proper, a back pivoted to the rear of said seat proper, legs pivotally connected in a non-detachable manner and forming the branches of a jointed X, one of said branches being pivoted to the fore part of the seat proper, and the other branch to a downward extension of the back, at a point nearer to the connection between the seat proper and the back than to the pivot point of the two branches of the leg, for the purpose described, the ends of the said branches being provided with notches, and a revoluble member mounted in the back and having flattened portions to permit it to enter the notches and to be retained in said notches.

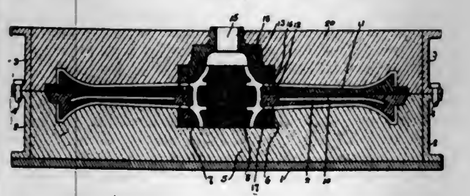
1,460,292. RELINER. IRA CROW VANCE, Howell, Ark. Filed Feb. 7, 1922. Serial No. 534,680. 2 Claims. (Cl. 152—18.)

1. A reliner for tires including a wrapper formed of two superposed sheets secured together, the outer sheet being of greater area than the inner sheet and extending laterally beyond the edges thereof, whereby integral ex-



tensions of reduced thickness are formed, fastening means formed on each of said extensions, and a leaf attached to the wrapper and extending over the fastening means.

1,460,293. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed July 5, 1922. Serial No. 572,832. 8 Claims. (Cl. 22—165.)



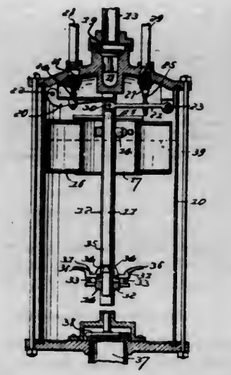
1. In a core member, a tubular member with a pouring aperture therein, a stepped portion on the exterior thereof for engagement with green sand, and a cutaway portion on the interior thereof adapted to form the exterior of a hub of a cast wheel.

1,460,294. WRENCH. LEWIS E. WEGNER, Hagerstown, Md. Filed Aug. 5, 1921. Serial No. 490,113. 16 Claims. (Cl. 81—133.)



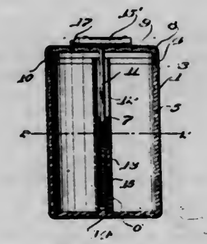
1. The combination, in a wrench, of a shank having a relatively fixed jaw and provided with teeth; a movable jaw slidable on said shank; a handle pivoted to said movable jaw; a pawl carried by the handle in position to engage the said teeth when the handle is moved toward the shank but normally disengaged from the teeth when the handle is extended; and manually actuated auxiliary means secured to said handle for moving the pawl into engagement with said teeth.

1,460,295. PUMP. ANDREW JACKSON WELDEN, Griffin, Ga. Filed Jan. 4, 1922. Serial No. 526,912. 5 Claims. (Cl. 103—248.)



5. A pump having a tank provided with a bottom valved inlet, a water discharge pipe having valved communication at its upper end with a service pipe, oppositely opening pressure and vent valves for respectively controlling the admission of pressure to and the exhaust of pressure from the interior of the tank, a tappet rod having connection with said valves and provided with a transverse tappet pin, a latch mechanism for engaging and holding the tappet rod in its elevated position and provided with a trip arm, and a float mounted for actuation by the liquid contents of the tank and located between said tappet pin and trip for successively actuating the same as it approaches the limits of its movement in opposite directions, the tappet rod being provided with a shoulder and the latch mechanism having pivotally mounted latches yieldingly held in position for engagement with said shoulder.

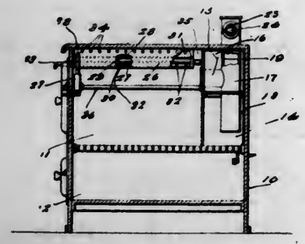
1,460,296. WATERPROOF CIGARETTE CASE. JOHN G. WELSH, Youngstown, Ohio. Filed Oct. 17, 1921. Serial No. 508,103. 3 Claims. (Cl. 206—41.)



2. A waterproof cigarette case comprising a body open at one end, a removable cover, means for sealing the joint between the body and cover when the latter is in closed position, and yielding means within the body and connected with the cover for yieldingly holding the cover under pressure against the body.

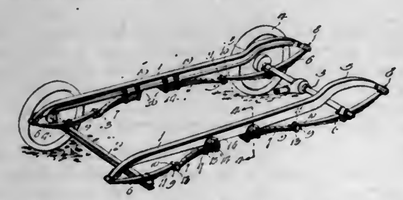
1,460,297. FUEL ECONOMIZER. PETER STEPHEN LEE WEST, Brooklyn, N. Y. Filed Feb. 11, 1922. Serial No. 535,895. 8 Claims. (Cl. 126—79.)

1. The combination with a fire box, of a casing located therein, separate compartments formed within the casing, a pipe extending downwardly through the top of the casing, means whereby communication is established between the fire box and pipe through one of the compartments, means whereby communication is established



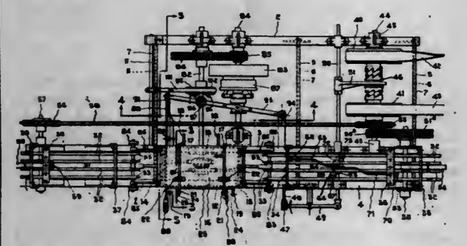
between the pipe and fire box to permit the lighter gases to return to the latter and means whereby the heavier gases will be conducted to the atmosphere.

1,460,298. VEHICLE SPRING. CHRIST WESTERGARD, Denbigh, N. Dak. Filed Apr. 25, 1921. Serial No. 464,105. 5 Claims. (Cl. 267—41.)



1. A spring suspension comprising a spring curving upwardly from a vehicle axle, a second spring curving downwardly from the vehicle frame toward and in substantial alinement with the first named spring, and connecting means between the adjacent ends of said springs for holding them normally in vertically spaced overlapped relation but for guiding them into contact with each other and limiting inward sliding of one along the other when under strain, each spring having a leaf extending beyond said connecting means for contact with a part of the other spring when the suspension is under strain.

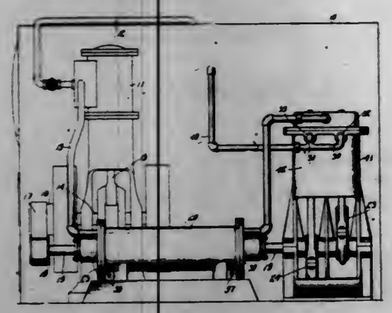
1,460,299. MACHINE FOR THE MANUFACTURE OF BUILDING BLOCKS AND THE LIKE. ARTHUR E. WHITEHOUSE, Montreal, Quebec, Canada. Filed Mar. 16, 1922. Serial No. 544,385. 26 Claims. (Cl. 25—41.)



1. A collapsible mold box including a pair of end walls and a pair of parallel side walls one of said walls being fixed and the other hinged at its bottom edge for the purpose of enabling it to be swung in a direction away from the fixed wall, a cover for closing the top of said box and hinged at one side edge upon said fixed wall,

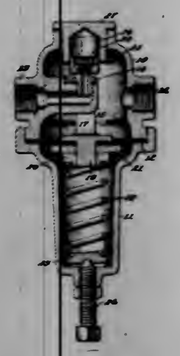
means for locking the cover in closed position said means including a projection upon said hinged wall, and a gravity latch hinged upon said cover and adapted to engage said projection.

1,460,300. COMPRESSING APPARATUS. MARK M. WHITFIELD, Memphis, Tenn. Filed Mar. 18, 1920. Serial No. 366,957. 4 Claims. (Cl. 230—32.)



1. A fluid compressing apparatus comprising a low pressure worm propeller compressor and a high pressure compressor having a reciprocating piston driven directly from the shaft of the worm propeller, substantially as set forth.

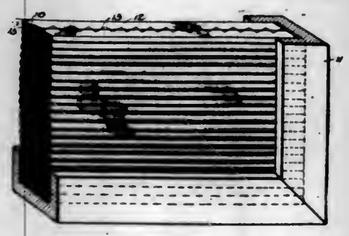
1,460,301. FLUID-PRESSURE REGULATOR. JAMES M. WILKINS, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 8, 1921. Serial No. 506,417. 6 Claims. (Cl. 50—23.)



1. In a regulator, the combination of a casing, a nipple having a valve seat in said casing, a valve supporting member having a passage with a tapered wall, a seat washer carrier having compressible fingers engaging said tapered wall adjustably mounted in said passage, a seat washer in said compressible fingers, and means for actuating said valve.

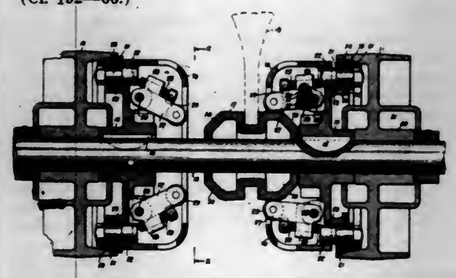
1,460,302. DOUBLE-FACED CHANGEABLE-LETTER SIGN. JOSEPH GILMER WILLIAMS, New York, N. Y., assignor of one-fourth to George T. Keen and one-fourth to Crawford Burton, both of New York, N. Y. Filed July 21, 1922. Serial No. 576,514. 9 Claims. (Cl. 40—142.)

1. A letter sign, comprising a plurality of strips of identical construction and substantially rectangular in cross section, a pad of cloth between the strips for resiliently holding one strip against the other means for



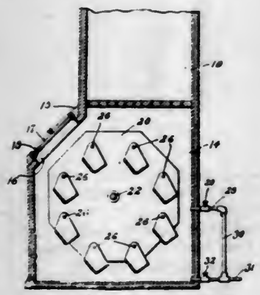
holding said strips together, and a letter formed with ears, said ears being capable of insertion between any of said strips on either face of the sign.

1,460,303. CLUTCH. DAVID WILSON WOOD, Brazil, Ind. Filed July 29, 1921. Serial No. 488,435. 5 Claims. (Cl. 192—66.)



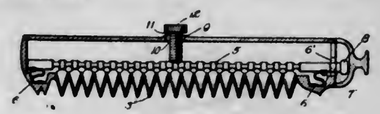
3. In a clutch, a cone pulley provided with a beveled inner face, a clutch member having a beveled face, a floating ring rotating with the said clutch member and having outer and inner beveled faces adapted to optionally engage alternatively either of said beveled faces on the said pulley and clutch member, and means for moving the said floating ring.

1,460,304. BOTTLE-COOLING DEVICE. OSCAR M. WOOLDRIDGE, Evansville, Ind. Filed Apr. 17, 1922. Serial No. 553,457. 2 Claims. (Cl. 211—9.)



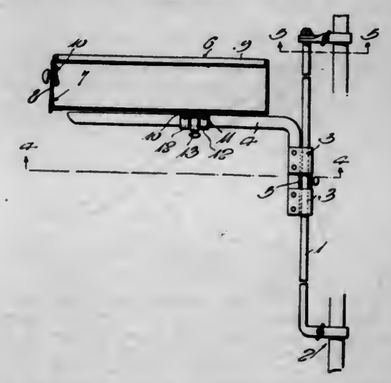
1. A rack for a bottle cooling device, comprising spaced rotatable elements, rods in spaced relation extending between said elements and connected therewith, the rods being parallel with the axis of rotation, and trays approximately V-shaped in cross section pivotally suspended from the rods.

1,460,305. COMB. PETER D. YANKOFF, Fort Smith, Ark. Filed July 14, 1922. Serial No. 575,026. 2 Claims. (Cl. 132—13.)



1. A comb for the purpose set forth, comprising a hollow body open at one end and having hollow teeth whose ends are apertured, a movable valve in each of the teeth, a bar connected with the valves spring influenced in one direction to unseat the valves, means for closing the open end of the body, and means operable exteriorly of the body for exerting a pressure on the bar to seat the valves or to regulate the valves with respect to their seats.

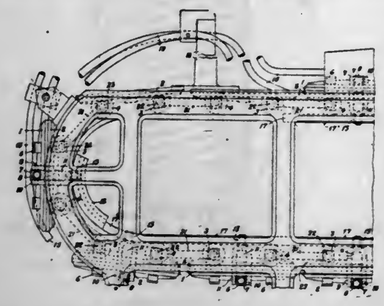
1,460,306. ATTACHMENT FOR BEDS. JAMES R. ANDERSON, Hot Springs, Mont. Filed Nov. 28, 1921. Serial No. 518,401. 1 Claim. (Cl. 45—82.)



An attachment for beds comprising a mounting rod adapted to be connected with a bed post in a vertical position, a supporting arm, means for connecting said supporting arm with said mounting rod with the supporting-arm extending horizontally from the rod and adjustable vertically upon the rod, said arm having a flat upper surface, a horizontally disposed article carrier positioned above said arm, a reinforcing plate secured against the undersurface of said article carrier and extending transversely of said arm, a bearing bracket formed from a plate having its central portion cut out to provide spaced strips, said plate being bent to form U-shaped clips of said strips, and attaching feet extending from said clips and secured to said reinforcing plate, the supporting arm being passed through said clips to slidably mount said article carrier for movement longitudinally of the supporting arm, and a collar loose upon said arm between said clips and having a set screw for engaging the supporting arm and locking the collar in place and thereby prevent movement of said article carrier upon the arm.

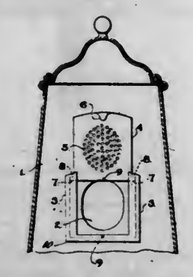
1,460,307. MACHINERY FOR MAKING WAFER BISCUITS, CUP WAFERS, AND SIMILAR ARTICLES FROM LIQUID. THOMAS O. BATES, Liverpool, England. Filed Aug. 24, 1921. Serial No. 494,777. Claim. (Cl. 107—58.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A wafer biscuit and like article making machine, comprising a series of sets of plates adapted to travel along a predetermined line, one of said plates being mounted for movement relative to the other, opening means fixed with relation to said movable plate, a cam way fixed with relation to the path of travel and adapted to cooperate with said opening means to raise said movable plate with respect to its cooperating plate, a locking projection carried by one of said plates and extending beyond the plane of the plates, a pivoted locking member



movable with the plates and having a locking roller to engage beneath said projection to lock the plates together, said locking member being provided with a setting roller arranged below the locking roller, and a guide carried by the machine to engage said setting roller at determinate points in the travel of the plates to operate said locking member to cause its locking roller to engage and disengage the locking projection.

1,460,308. STRAINER. FRANK T. BENTLEY, Platteville, Wis. Filed Apr. 18, 1922. Serial No. 554,374. 1 Claim. (Cl. 53—3.)

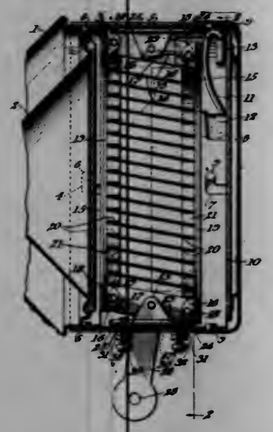


A utensil having a spout, a vertically disposed guideway formed on each side of the opening leading from the utensil into the spout, a shoulder carried by the upper end of each guideway, a horizontally disposed guideway connecting the first mentioned guideways at their lower ends, a projection formed on the horizontally disposed guideway intermediate of its ends, a perforated plate adapted to slide in the vertically disposed guideways and being provided with a depression designed to receive the projection formed on the horizontally disposed guideway when the plate is normally seated, projections carried by the plate to prohibit its upward movement, and a lip integrally formed on said plate as and for the purpose specified.

1,460,309. HEADLIGHT DIMMER. PAUL BIERBRAUER and IRVIN DUNCAN PETERS, Wausau, Wis. Filed May 2, 1922. Serial No. 557,903. 10 Claims. (Cl. 240—45.2.)

3. In a dimming device a plurality of parallel slats, a frame comprising a pair of spaced frame members ar-

ranged at the opposite sides of said slats, non-metallic means between said slats and frame members and pro-



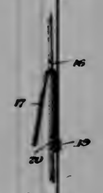
viding pivotal supports for the opposite edges of said slats, and means to move one of said frame members to tilt said slats.

1,460,310. APPARATUS FOR PRESSING COP AND LIKE TUBES UPON SPINDLES. EDWARD BUCK, Middleton Junction, England. Filed May 2, 1922. Serial No. 557,940. 2 Claims. (Cl. 118—16.)



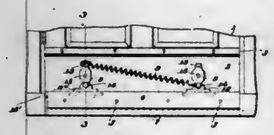
1. Apparatus for use in pressing tubes upon spindles in textile machinery, two plates arranged parallel to each other, corresponding recesses formed in each plate to grip the tubes, two spindles fitted to one plate and passing through the other plate, and rotatable sleeves mounted upon the spindles, and in screwed engagement therewith, and springs between the plates to force same apart.

1,460,311. CHANGEABLE SIGN. ROSCOE C. BURTON, Albany, N. Y. Filed Apr. 3, 1922. Serial No. 549,035. 1 Claim. (Cl. 40—140.)



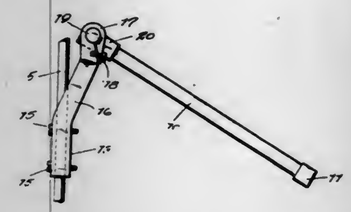
In a sign including a sheet like body formed with slots, sign plates V-shaped in cross section having their bight portions engaging within the respective slots, and retaining clips on the body engaging the lower edges of the sign plates.

1,460,312. AUTOMATIC WEATHER STRIP. FRED CARON, Detroit, Mich. Filed May 5, 1922. Serial No. 558,671. 2 Claims. (Cl. 20—68.)



1. The combination in a weather strip, of a body, levers connected at intermediate points in their lengths with said body and having upper and lower arms, a padded thrust bar pivotally connected to and carried by the lower arms of the levers, and a retractile spring interposed between and connected to the upepr arm of one lever and the lower arm of the other lever.

1,460,313. WINDSHIELD VISOR. JOHN WATTERSON DAVIS, Dallas, Tex. Filed Apr. 27, 1921. Serial No. 464,968. 1 Claim. (Cl. 296—95.)



A visor for windshields comprising a glass panel, a frame carrying said panel, reinforcing members secured to and shaped to embrace the upper corners of said frame, elongated smooth surfaced pivot studs projecting laterally from said reinforcing members and integral therewith, brackets having means for securing the same to the side bars of a windshield and formed upwardly and forwardly extending arms, bearings in the upper extremities of said arms formed to provide flexible gripping members, the length of said pivot studs being greater than the width of said bearings to provide for adjustment of said bearings relative to said studs to adapt said visor to shields of varying widths, and means to frictionally secure said pivot studs in said flexible bearings, whereby to maintain said visor at any desired position.

1,460,314. SEPARATOR FOR FEEDERS. BERT DECK, Winfield, Kans. Filed May 6, 1922. Serial No. 558,906. 2 Claims. (Cl. 271—26.)



1. The combination with a suction foot for drawing the top sheet from a pile of sheets, of means for injecting blasts of air between the top sheet and the sheet next thereto when a suction is created between the suction foot and the top sheet, said means comprising an air conducting apertured foot member arranged along one

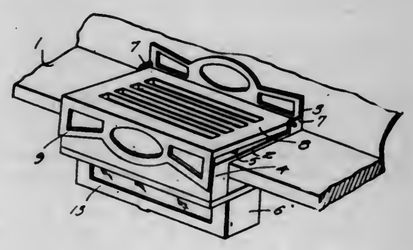
side of the suction foot, a laterally extending plate on said member disposed over the top of the suction foot, and spring means on the end of said plate for contacting the side of the suction foot.

1,460,315. DYESTUFFS OF THE TRIARYLMETHANE SERIES AND PROCESS OF MAKING SAME. GUILLAUME DE MONTMOLLIN, JOSEF SPIELER, and GÉRALD BONHÔTE, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 22, 1921. Serial No. 517,045. 15 Claims. (Cl. 260—65.)

8. The herein described process for the manufacture of dyestuffs of the triarylmethane series, consisting in acting on alphanaphthol-2-carboxylic acid with an arylchloroform, in presence of a catalyst and of a substance capable of binding an acid.

15. As new product the herein described dyestuff of the triarylmethane series derived from phenyl-chloroform and alphanaphthol-2-carboxylic acid, which constitutes, in a dry state, a deep powder, soluble in water containing caustic soda lye with green-blue and in concentrated sulfuric acid with deep-blue coloration and dyeing wool grey tints turning, on subsequent chroming on the fibre, to a green fast to fulling and potting.

1,460,316. COMBINED RUNNING-BOARD MAT AND LIGHT. WALTER DOBSCHUTZ, St. Louis, Mo. Filed Jan. 10, 1922. Serial No. 528,266. 8 Claims. (Cl. 240—7.)



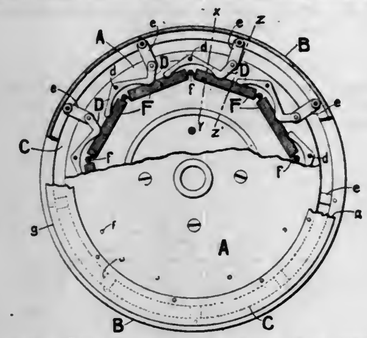
1. A combined mat and light for the running board of an automobile, the same comprising a frame adapted to be secured to the running board, an electric light carried by the frame and included in a circuit containing closing means therefor, and a foot cleaning member mounted upon the frame and adapted to be depressed by weight imposed thereon and when depressed to effect a closing of the circuit of said electric light, whereby to shed rays to insure a safe landing.

1,460,317. COATING COMPOSITION. ANNUAL DUKE, Marion, Ind. Filed May 14, 1920. Serial No. 381,448. 1 Claim. (Cl. 134—58.)

A composition for use upon metallic surfaces for the protection thereof from the elements of erosion consisting of lard oil, lubricating oil and white lead of equal portions mixed with a lesser portion of graphite, and powdered borax and lamp black of equal portions but of less portion than the graphite.

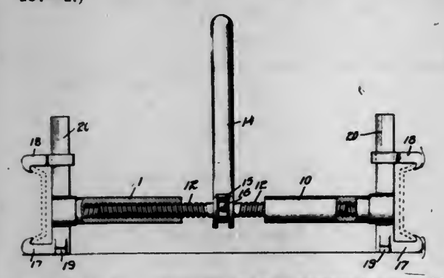
1,460,318. SPRING WHEEL. PIERRE FAIVRE, Le Locle, Switzerland. Filed Jan. 8, 1923. Serial No. 611,524. 3 Claims. (Cl. 152—28.)

1. A spring wheel, comprising an axle body element, a felly element independent from said axle body element, power transmission rocking levers adapted to yieldingly interconnect said two elements, an elastic supporting rim along the wheel circumference and carrying means there-



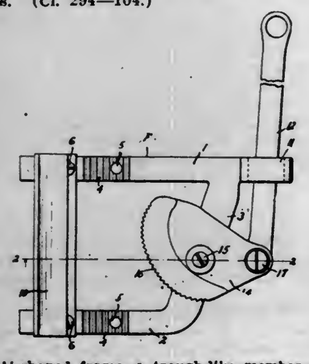
for, said rocking levers being arranged with respect to said elastic supporting rim so as to bear thereon like riders transversely to its length.

1,460,319. RIM CONSTRICTING AND EXPANDING DEVICE. HARVEY FIFER, Deer Lodge, Mont. Filed Feb. 18, 1922. Serial No. 537,574. 2 Claims. (Cl. 157—1.)



1. A device for constricting and expanding demountable automobile rims comprising a pair of bars each having a base adapted to support it in upright position, a fixed lower gripper on each bar adapted to engage the lower edge of a recumbent rim, gravity operated grippers slidably mounted on the bars to engage the upper edge of the rim, and means for moving the bars toward and from each other, substantially as set forth.

1,460,320. LIFTER. THEODORE FREY, Guide Rock, Nebr. Filed Apr. 18, 1922. Serial No. 554,701. 2 Claims. (Cl. 294—104.)



1. A U-shaped frame, a trough-like member adjustably secured thereon, a cam member pivoted thereto opposite

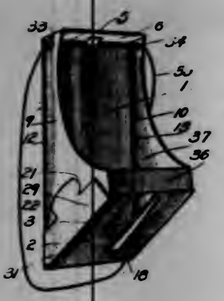
the trough-like member, said cam member having a rounded concaved toothed face disposed opposite the trough-like member, and an operating rod pivoted to the cam and guided through the frame.

1,460,321. ROAD DRAG. HANS H. GOSCH, Randall, Minn. Filed Aug. 25, 1921. Serial No. 495,152. 3 Claims. (Cl. 37—155.)



1. A machine of the class described having a lifting bar, a supporting beam flexibly suspended from the bar, a second supporting beam flexibly suspended from the bar, means permitting relative movement of said bars on a horizontal axis transverse to the machine, and independent drag means supported from said bars.

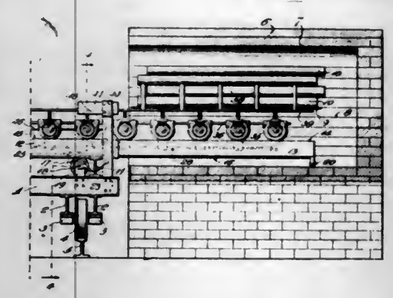
1,460,322. MAILING RECEPTACLE. JOEL E. HAWLEY, Kansas City, Mo., assignor of one-half to William J. Riley, Kansas City, Mo. Filed Aug. 23, 1920. Serial No. 405,347. 4 Claims. (Cl. 229—16.)



3. A device of the class described for receiving fine particles which are ground from precious metals comprising an extensible and collapsible receptacle, the receptacle when extended having a substantially vertical opening to receive the metal ground off, and when collapsed, constituting a mailing envelope by means of which the metal can be transported through the mails.

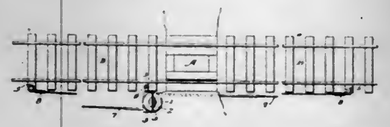
1,460,323. OVEN CHARGING AND UNLOADING APPARATUS. WAYNE S. HODGES, Shelby, Ohio. Filed May 15, 1922. Serial No. 561,179. 8 Claims. (Cl. 214—26.)

1. An oven charging device comprising a truck for moving relative to an oven, tracks carried by said truck and having extensible sections, means for moving the extensible track sections into and out of an oven, a carriage movable upon said tracks, an article carrying pan adapted to rest upon supports in an oven, supports carried by said truck for supporting the pan above said



carriage and vertically movable means carried by the carriage for lifting the pan from the supports of the truck or oven.

1,460,324. SIGNAL MEANS. NOAH J. HOOD, Vance, Ala. Filed Nov. 18, 1922. Serial No. 601,806. 2 Claims. (Cl. 246—294.)



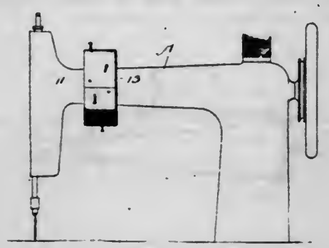
1. A signal means of the class described comprising a standard, signal means carried thereby, a casing in which the standard is rotatably mounted, an arm on the standard, a latch carried by the arm, a rod rotatably mounted in the standard, a keeper thereon for engaging the latch for holding the signal in operative position, a spring for holding the standard in inoperative position, a spring connected with the rod for holding the keeper in engaging position and a part on the rod adapted to be engaged by a train for moving the rod to throw the keeper thereon out of engagement with the latch.

1,460,325. PROCESS AND MEANS FOR SWITCHING RAILROAD CARS. FRANK W. EAGELSTON, Berkeley, Calif. Filed Feb. 11, 1922. Serial No. 535,778. 14 Claims. (Cl. 104—48.)



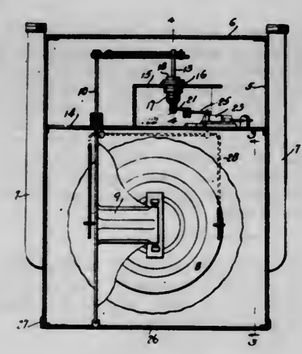
6. In a car switching means, a guide member disposed between the rails of a track, a car moving device movably carried by said guide member and being adapted to move in the direction of the track, and a cylinder having a piston therein, said piston being operatively connected to said car moving device, whereby said device is moved when said piston is actuated.

1,460,326. PINCUSHION. JOHN F. JEWART, Blasdell, N. Y. Filed Apr. 2, 1918. Serial No. 226,215. 1 Claim. (Cl. 223—60.)



The combination with a support, of a pin cushion embodying a normally circular flexible split member having its abutting ends formed to provide an overlapping engagement with one another and defining a substantially continuous member having an inner circular circumference.

1,460,327. METER CONSTRUCTION. ERNEST ARTHUR KERSTEIN, Albany, N. Y. Filed Jan. 13, 1922. Serial No. 528,911. 2 Claims. (Cl. 73—1.)



1. A gas meter including a shaft, means for oscillating said shaft, a stuffing box encircling said shaft, said stuffing box comprising a socket and a plug cooperating with said socket, said shaft extending through said plug and being formed with a reduced end portion extending through the base of said socket member, a collar encircling said socket and carrying the same, and a shield carrying said collar.

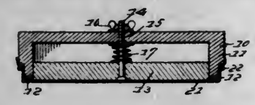
1,460,328. SPINNING AND TWISTING SPINDLE. JOHANN JACOB KEYSER and JOHANN JACOB MÜLLER, Prattein, near Basel, Switzerland. Filed Aug. 27, 1921. Serial No. 495,888. 8 Claims. (Cl. 118—65.)

1. In a sectional spindle for spinning and twisting, a lower spindle section provided with an axial passage, a driving toothed gear connected to said spindle section, a removable upper spindle section with a rod arranged to tightly fit into said axial passage of the lower



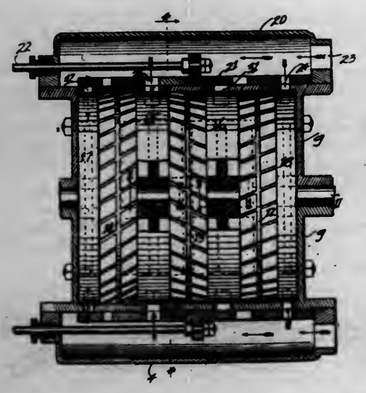
spindle section and to enclose a sectional air space therein, and a friction coupling between the two spindle sections to connect the same, substantially as described.

1,460,329. WAX SPREADER. JAMES KING, Joplin, Mo. Filed July 12, 1921. Serial No. 484,047. 4 Claims. (Cl. 91—37.)



3. A wax spreading and floor rubbing implement having a head provided with a depending flange extending throughout its perimeter, a rubbing cloth spanning the free edges of the flange and detachably secured to the head, and a yielding plunger carried in the space bounded by the flange and bearing upon the cloth to tension the latter.

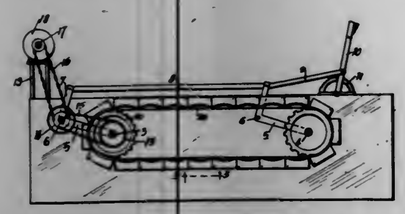
1,460,330. STEAM TURBINE. CLIFTON E. KOONCE, Coalinga, Calif. Filed Sept. 17, 1921. Serial No. 501,242. 1 Claim. (Cl. 253—73.)



In a rotary turbine, the combination of castings, steam chambers formed on said castings, slide valves mounted

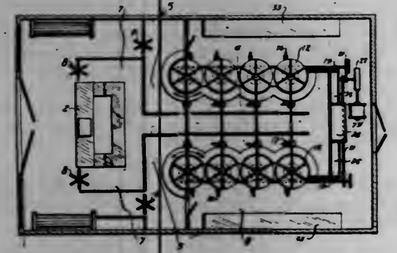
in said steam chambers, ports in said slide valves, ports in said castings, a shaft carried by said castings, rotors placed on said shaft, division members between said rotors, ports in said division members, and buckets formed on said rotors, said buckets on the opposite sides of said rotors being in axial alignment when adapted to receive steam therein for the purpose of causing rotation of said rotors in either a forward or reverse direction.

1,460,331. CURRENT MOTOR. ALBERT TABBET, Lakeside, Calif. Filed Feb. 14, 1921, Serial No. 444,713, Renewed Apr. 23, 1923. 3 Claims. (Cl. 170—90.)



1. A current motor comprising an endless flight movable over sprocket wheels, said flight comprising buckets having arcuate links on the sides thereof linked to one another so that the buckets abut against one another during movement from one sprocket to the other, and pivot with relation to one another as the buckets pass around said sprockets, said links being toothed to engage said sprockets as they pass around the same.

1,460,332. STORE FURNITURE. JESSE TRIPP, Jr., Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,301. 1 Claim. (Cl. 211—8.)



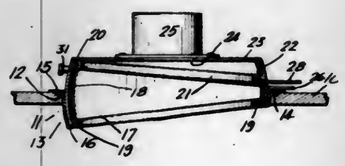
The combination, in a store, of upright merchandise receiving cases, said cases being arranged in two rows, which rows are spaced apart from each other and from the walls of the store to form passageways for customers and for employees, means for simultaneously rotating all of the cases in the two rows, and means associated with said rotating means for selectively stopping the rotation of any one case from the intermediate passageway or the passageways between said cases and the walls of the store.

1,460,333. CLOTHESLINE FASTENER. LUIS AIMÉ, West Hoboken, N. J. Filed Jan. 4, 1923. Serial No. 610,024. 4 Claims. (Cl. 24—123.)



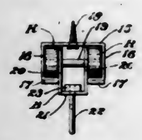
1. In a clothesline fastener of the character described, the combination with the ends of a line which have been interlocked, of a tubular fastener adapted to be slid thereover formed with merging grooves, there being a groove for each line and the end of each line.

1,460,334. LENS MOUNTING. PAUL L. BRADLEY, Los Angeles, Calif. Filed June 20, 1921. Serial No. 479,000. 12 Claims. (Cl. 95—50.)



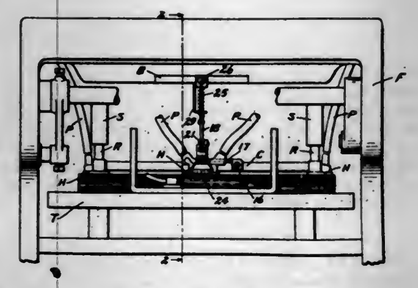
1. An angularly adjustable mount for camera lenses, comprising a plurality of connected independently movable spherical segments each of which is substantially wedge-shaped in cross section.

1,460,335. CURTAIN HANGER. BERNARD L. GLAVIN, Los Angeles, Calif. Filed Dec. 14, 1921. Serial No. 522,365. 1 Claim. (Cl. 156—20.)



A curtain hanger comprising a metal track including an upper sustaining portion, spaced depending portions, and inwardly bent track portions disposed in spaced relation to each other, a bracket of U-shaped formation having the parallel portions thereof extended between the track portions, a stub shaft mounted in the parallel portions of the bracket at a point within the track, rollers carried by the ends of the stub shaft and having rolling contact with the inner sides of said track portions, and a hook swivelly sustained on the horizontal portion of the bracket.

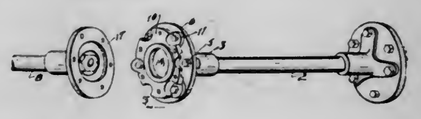
1,460,336. PAPER-FEEDING MECHANISM FOR PRINTING PRESSES. ALBERT P. HART, Santa Ana, Calif. Filed Mar. 9, 1922. Serial No. 542,266. 7 Claims. (Cl. 271—20.)



1. In combination, a paper feeding mechanism including a paper supporting table, a stationary member, a movable member adapted to engage and disengage the paper supported on the table, lifting heads carried by

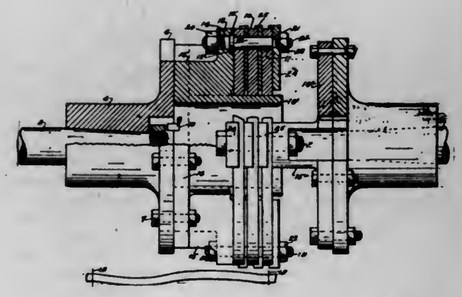
the movable member, a lever sustained for rocking movement on the movable member, means connected to said lever and to the stationary member for effecting movement of the lever about its own axis when the movable member is moved, and a loosening member carried by the lever and adapted to engage the paper on said table during the movement of the movable member toward the paper whereby when the movable member is in actual engagement with the paper, the loosening member will be moved to effect the loosening of the uppermost sheet of paper.

1,460,337. FLEXIBLE COUPLING. ROY B. HOLMES, Los Angeles, Calif.; Nellie I. Holmes, administratrix of said Roy B. Holmes, deceased, assignor, by mesne assignments, to A. W. Saline. Filed Nov. 22, 1919, Serial No. 339,984. Renewed Dec. 29, 1922. 3 Claims. (Cl. 64—96.)



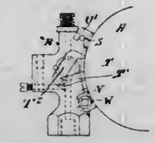
1. A flexible coupling for shafts comprising a coupling member adapted to be applied to one of the shafts, a flexible disc positioned adjacent to said coupling member, bolts seated in said coupling member and said flexible disc, an intermediate plate, lugs formed integral with and projecting from one side of said intermediate plate, which lugs maintain said intermediate plate spaced apart from the flexible disc, fastening means seated in said flexible disc and said lugs, the edge of said intermediate plate having notches formed therein to provide clearance for the bolts that fasten the flexible disc to the first mentioned coupling member, a coupling member adapted to be secured to the other shaft and means for securing the intermediate plate to the last mentioned coupling member.

1,460,338. FLEXIBLE JOINT. ROY B. HOLMES, Los Angeles, Calif.; Nellie I. Holmes, administratrix of said Roy B. Holmes, deceased, assignor, by mesne assignments, to A. W. Saline. Filed Dec. 11, 1919, Serial No. 344,158. Renewed Dec. 29, 1922. 8 Claims. (Cl. 64—96.)



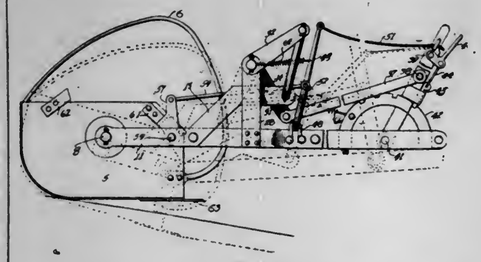
5. A flexible joint coupling comprising a driving part having a plurality of spot lugs, a driven part having a plurality of spot lugs, pliant discs interposed between the parts, friction plates having radial corrugations in faces applicable to the discs to increase the friction of contacting areas, and bolts passed through the plates and discs and arranged to assemble the same with a limited degree of compression, said bolts being also adapted to secure the assembled plates and discs to the lugs.

1,460,339. GAS CONTROLLER AND THE LIKE. ALBERT HORSTMANN, Bath, England, assignor to Horstmann Gear Co. Limited, Bath, England, a Company of Great Britain. Filed Jan. 30, 1923. Serial No. 615,898. 5 Claims. (Cl. 161—9.)



1. An automatic lighting and extinguishing device for street lamps comprising in combination, a fuel conductor for the lamp including a controlling means for the fuel, a time-controlled actuating mechanism for said fuel controlling means, means for attaching and detaching said mechanism as a unit to and from said fuel conductor, said latter means including a latch, and a clamping screw co-operating therewith.

1,460,340. SCRAPER. BRUCE E. ROSE and GEORGE WOOLWINE, Modesto, Calif. Filed Apr. 7, 1922. Serial No. 550,382. 2 Claims. (Cl. 37—140.)



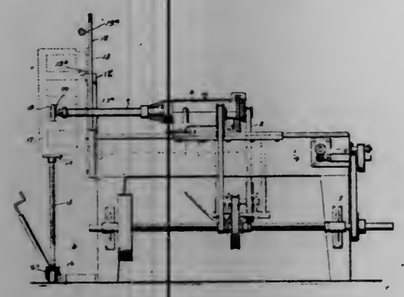
1. In a device of the character described, a scoop, draw bars pivoted to said scoop, said draw bars having offset portions, draft means pivoted to said draw bars, at a point substantially midway of their length, said draft means comprising parallel spaced portions provided with offsets therein, standards secured to said draft means, segments secured to said draft means, a lever pivoted to said draft means and adapted to move over said segment, a bar extending between said standards, levers mounted on the ends of said bars, links extending from said levers, to the free ends of said draw bars and means for rotating said rod through the movement of said first mentioned lever for the purpose of moving the free end of said draw bars toward said draft means.

1,460,341. AGGLUTINANT FOR VENEER. PAUL SCHROT, Bad Sooden, Germany. Filed Aug. 13, 1921. Serial No. 492,143. 3 Claims. (Cl. 87—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. Process for the production of an agglutinant for veneer consisting in admixing with 5 kilograms of leather

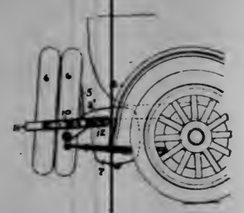
glue which has been soaked in water for 14 hours, 10 kilograms of lenzin, 5 grams of ocher and 3 liters of water.

1,460,342. GRINDING AND BORING MACHINE. VICTOR BARTLEY and JAMES B. WORTHINGTON, Oklahoma, Okla. Filed Aug. 9, 1921. Serial No. 490,936. 4 Claims. (Cl. 51—216.)



1. In a grinding machine of the class described, a frame, a spindle carried by said frame and adapted to carry a tool, means for rotating said spindle, a chucking plate vertically movable adjacent one end of the frame, and a vertically movable table adjacent said end of the frame for carrying the main weight of the work when such work is fixedly attached to the chucking plate to project from the latter substantially horizontally, said table being the sole means of support for engaging a part of the work so projected, whereby on lifting the table the work is lifted therewith and in turn the work lifts the chucking plate while the chucking plate guides the work.

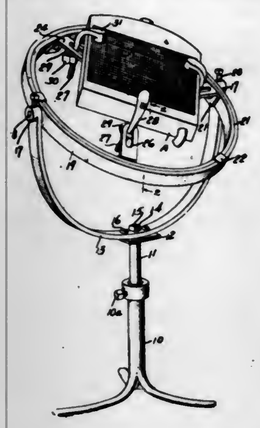
1,460,343. FENDER. WILLIAM G. COX, Cleveland, Ohio. Filed Feb. 3, 1923. Serial No. 616,740. 18 Claims. (Cl. 293—85.)



18. A rear fender for an automobile embracing the spare tire and mounted on a cross bar joining the chassis side bars back of the tire and secured thereto at points outside of the spare-tire supports on the same cross bar.

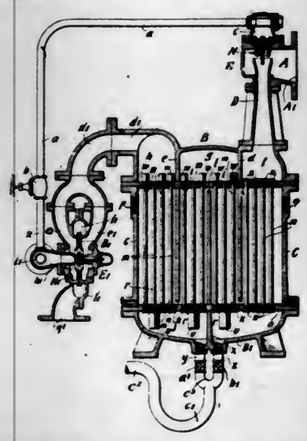
1,460,344. RADIATOR HOLDER. JASPER W. KAGER, Butte, Mont., assignor to Kager Automobile Radiator Holder Company, a Copartnership consisting of Jasper W. Kager, Samuel Barker, Alexander Levinski, and Henry C. Levinski. Filed Nov. 19, 1921. Serial No. 516,352. 5 Claims. (Cl. 29—89.)

1. A holder of the class described including a stand, a vertically adjustable standard thereon, a stirrup-like yoke carried by said standard and presenting bearings at its upper end, an annular frame having trunnions in said bearings to adapt the frame to rock vertically, a ring



turnably fitting within said frame, means to hold said ring against displacement in the frame, and clamp means within said frame to hold a radiator.

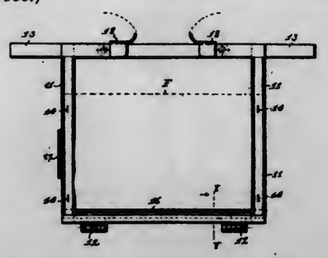
1,460,345. FLUID-COMPRESSING APPARATUS. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1919, Serial No. 317,875. Renewed May 9, 1923. 38 Claims. (Cl. 230—13.)



1. Combined ejector-condenser structure comprising an ejector, a condenser into which said ejector discharges the mixture of motive fluid and fluid to be compressed, said condenser comprising a plurality of substantially vertically extending serially connected conduits into which said ejector discharges, said conduits forming a plurality of passes, and means for circulating cooling fluid around said conduits.

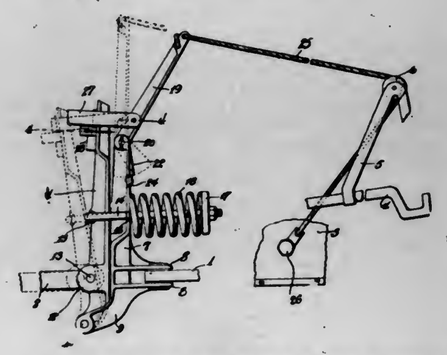
10. Multi-stage ejector condenser structure comprising serially connected ejectors, an interstate condenser into which one of said ejectors discharges the mixture of motive fluid and fluid to be compressed, said condenser comprising a plurality of groups of vertical conduits, chambers serially connecting said groups of conduits, and means for cooling said conduits.

1,460,346. COMBINED FILM SUPPORTER AND HANGER. ARTHUR B. LE P. MESNY, Washington, D. C., and GIFFARD DE J. MESNY, Norfolk, Va. Filed Sept. 24, 1921. Serial No. 502,872. 6 Claims. (Cl. 95—100.)



1. A combined film supporter and holder comprising an open rectangular frame having a lateral extension at its top and a supporting ledge at its bottom portion and a stop at one of its sides, a second open rectangular frame having a lateral extension at its top and hinged to said first mentioned frame so constructed and arranged to clamp a film when said two frames are superimposed upon each other, and means for locking said two frames together.

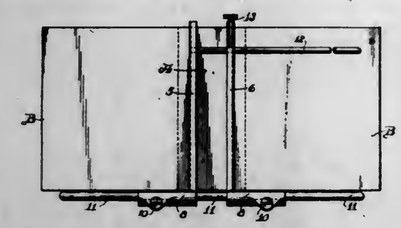
1,460,347. COUPLING APPARATUS FOR TRACTORS. HENRY KAISER, New Holstein, Wis., assignor to The Farm Specialty Mfgr. Co., New Holstein, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1920. Serial No. 355,561. 5 Claims. (Cl. 180—14.)



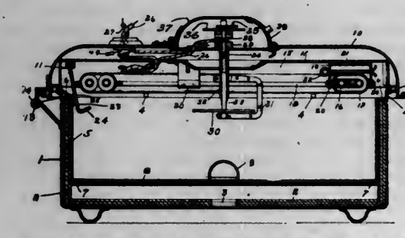
1. A coupling apparatus having a first connecting means and a second connecting means, said means being attachable one to a propelling vehicle and the other to a trailing implement, said means being relatively movable, a resilient means to resist relative separating movement of said means but to permit relative movement of said means upon the implement striking an obstruction, means operable through said relative movement of said means to stop travel of said implement, a device extending from one of said connecting means to cooperate with the other connecting means to limit separating movement of the connecting means, and a block adjustably mounted on one of the connecting means having portions of different thicknesses for selective projection cooperating with said device to vary the extent of separation of said connecting means.

1,460,348. BOOK-COVER GAUGE. CHRISTIAN B. NELSON, Chicago, Ill. Filed Mar. 23, 1922. Serial No. 546,033. 6 Claims. (Cl. 33—180.)

1. A gauge for bookbinders comprising parallel gauge members having arms projecting at right angles from corresponding ends thereof in opposite directions and adapted to stand on edge, and means for adjustably connecting said gauge members whereby they may be moved to and from each other.

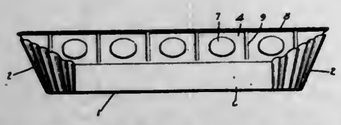


1,460,349. ELECTRIC INCUBATOR. LUCIAN R. OAKES, Tipton, Ind. Filed Nov. 3, 1920. Serial No. 421,538. 2 Claims. (Cl. 119—37.)



1. In an incubator, a hollow body portion, a heat retaining covering within said body, a lining terminating a distance above the bottom of said hollow body portion and having an outwardly and inwardly extending flange at its upper and lower ends, respectively, the outwardly extending flange projecting over the upper edge of said covering, a screen resting upon the inwardly extending flange, a cover for said body, and a heating element in said cover for heating the interior of the body.

1,460,350. FEED TROUGH FOR CHICKS. LUCIAN R. OAKES, Tipton, Ind., assignor to The Oakes Manufacturing Company, Tipton, Ind., a Corporation of Indiana. Filed May 5, 1922. Serial No. 558,723. 2 Claims. (Cl. 119—61.)

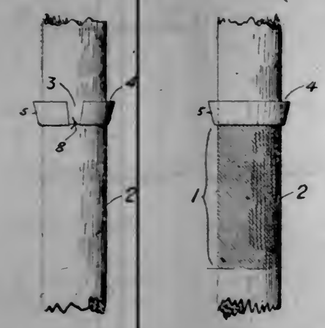


1. In a feed trough, a body having integral outwardly flared ends and side walls, the side walls of which are of less height than the height of the ends, the top edges of said end walls being inclined downwardly from their centers, a cover having flanges thereon for holding the cover in position over the body, said cover being inclined from its longitudinal center to its outer edges and said inclined portions having a plurality of openings therethrough, said inclined top edges of the end walls fitting against the inclined faces of said cover.

1,460,351. HIGHWAY-SIGN PAINT PROTECTOR. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor to Maxwell Paint Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1922. Serial No. 584,216. 3 Claims. (Cl. 40—145.)

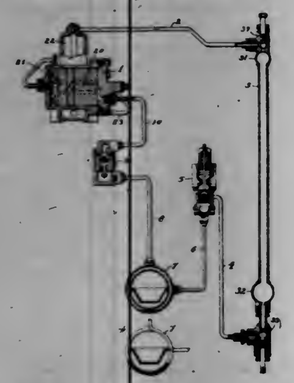
1. A protector for preventing descending wood juices and extracts from staining the conspicuous portions of

the painted base parts of posts marking highways which consists of a gutter adapted to encircle the post above the painted base part and having its ends spaced apart and equipped with a tie means providing between the



spaced ends a passage in communication with the gutter for deflecting the descending juices and extracts away from the conspicuous part and to an inconspicuous part of the paint.

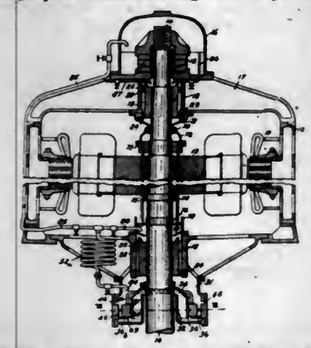
1,460,352. METHOD FOR PREVENTING THE FORMATION OF FROST CRYSTALS IN THE CIRCULATING LINES OF REFRIGERATING MACHINES. HAZOR JUDSON SMITH, Springfield, Mass. Filed June 8, 1922. Serial No. 566,880. 4 Claims. (Cl. 62—178.)



1. A method of preventing the formation of frost crystals in the circulating lines of a refrigerating machine which includes the step of mixing with the refrigerant a liquid highly miscible with water, providing a non-freezing sludge in the low side circulating the sludge through the lines and collecting it in low spots thereby preventing interference in the circulating lines.

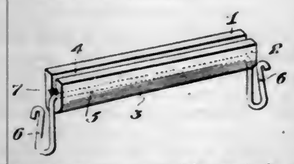
1,460,353. LUBRICATING APPARATUS. ROBERT B. WILLIAMSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 8, 1922. Serial No. 559,152. 15 Claims. (Cl. 184—6.)

1. In combination in a vertical shaft machine, a bearing for the shaft, a reservoir secured in position below said bearing and adapted to receive oil from said bearing, a viscosity pump in said reservoir, said pump comprising relatively rotatable and co-operatively engageable parts, one of said parts being rotatable with said shaft in a body of lubricating material in said reservoir, and one of said parts having a recess at its face engageable with the other part, the depth of said recess decreasing from the leading edge thereof, and said recessed part having a discharge port communicating with a portion of said



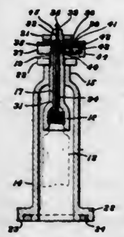
recess of decreased depth, and a conduit connection from said discharge port to the upper side of said bearing.

1,460,354. PACKAGE HANDLE. GEORGE W. CARVER, Orange, N. J., assignor of one-half to Horace G. Stripe, New York, N. Y. Filed Apr. 16, 1921. Serial No. 461,866. 2 Claims. (Cl. 224—57.)



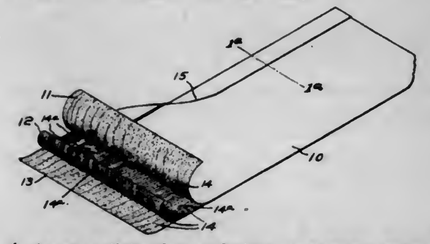
2. A package carrier comprising a body portion provided with an open ended longitudinal slot extending throughout the length thereof, said body portion being substantially U-shaped in cross section, a wire in said slot and having hooked ends projecting from said slot, said body portion being upset at its ends at the slot portion thereof whereby said upset portions retain said wire in said slot.

1,460,355. AIR AND DUST CAP FOR PNEUMATIC TIRES. ALVA K. HINCHMAN, Philadelphia, Pa., assignor of one-half to Reginald M. Adams, Philadelphia, Pa. Filed Jan. 20, 1922. Serial No. 530,649. 6 Claims. (Cl. 152—115.)



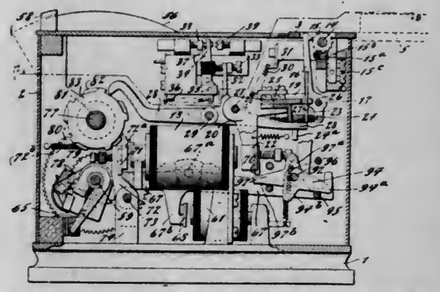
1. A combined air and dust cap for pneumatic tires comprising a tubular body having an outwardly directed flange at one end, a resilient packing ring concentrically bedded in the face of said flange, a neck portion at the other end of said tubular body, means movable axially in said neck portion for engagement with the tit of the tire valve stem, said means comprising a spindle having an internally threaded bell-shaped inner end, a reduced outer end terminating in a manipulating head, said spindle being screw-threaded for a portion of its length adjoining the reduced outer end, and a lock-nut on said screw-threaded portion whereby the device may be secured dust and damp-proof on the tire rim.

1,460,356. REENFORCED-PAPER STRIP. CHARLES H. HOWARD, Saugus, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,134. 11 Claims. (Cl. 154—52.)



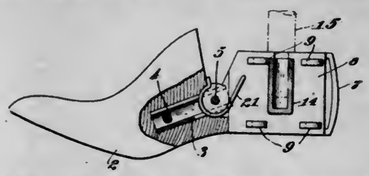
4. As an article of manufacture, a wrapper strip of reenforced paper comprising a centre strip of paper, longitudinally extending unspun fibres adhesively secured to each surface of the centre strip of paper in the form of a thin sheet or layer, exterior strips of paper enclosing the central strip and the reinforcing unspun fibres and adhesively secured thereto, and the reenforced paper having a longitudinally extending edge thereof folded under to further strengthen the same.

1,460,357. TRANSMITTER FOR PRINTING TELEGRAPHS. EDWARD E. KLEINSCHMIDT, Brooklyn, N. Y., assignor to The Kleinschmidt Electric Company, a Corporation of New York. Filed May 1, 1919. Serial No. 293,950. 6 Claims. (Cl. 178—17.)



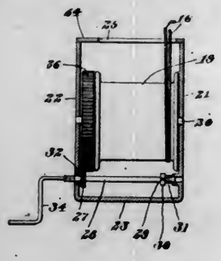
1. A printing telegraph operable with perforated tape, a manually movable member, message transmitting mechanism, means under control of said tape for actuating said transmitting mechanism, means under control of said movable member for actuating said transmitting mechanism, common electro-magnetic means for actuating said tape controlled means and for controlling said movable member, and electrical interlocking means for interrupting operation of said tape controlled means while said manually movable member is operating.

1,460,358. LAST. WALTER A. KRENTLER, Detroit, Mich., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 3, 1918. Serial No. 256,732. 8 Claims. (Cl. 12—134.)



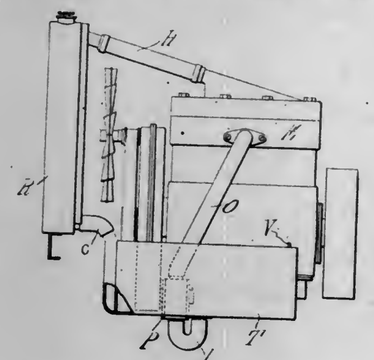
1. A heelpart for a last comprising two members forming the opposite sides of said heelpart, and a removable spacing member between said parts serving to hold them in properly spaced relationship, and means for connecting said heelpart to any one of a plurality of foreparts, said connecting means being operative to secure said parts of the heelpart in their operative positions.

1,460,359. AWNING CONTROL MEANS. JAMES R. MACLEAR, Denver, Colo., assignor to Frank R. Ashley, Denver, Colo. Filed Oct. 6, 1922. Serial No. 592,924. 2 Claims. (Cl. 156—15.)



2. An improved awning operating mechanism comprising a housing, a shaft rotatably mounted therein, a winding drum and a wide faced gear secured to, and rotatable with, said shaft, a second shaft rotatably mounted in said housing parallel to the first said shaft and movable longitudinally with respect thereto, a narrow faced gear secured to said second shaft and meshing with, and driving, the first gear, cooperating locking members on said narrow faced gear and in the housing adapted to lock the second shaft against rotation and thereby prevent rotation of the drum, means mounted on second shaft for forcing the locking members on the narrow faced gear and in the housing into locking association, and means for moving said shaft longitudinally to move said locking members out of locking association and thereafter rotate said second shaft to cause a rotation of the first shaft and winding drum in either direction.

1,460,360. RADIATOR DEVICE FOR GAS ENGINES. LESTER P. BARLOW, New Haven, Conn. Filed Oct. 1, 1918. Serial No. 256,444. 3 Claims. (Cl. 123—174.)



2. A cooling system for gas engines including a cooling unit, connections between the upper portions of said unit and the upper portion of the water jacket of an engine, connections between the lower portion of said unit and the lower portion of said water jacket, a reservoir in communication with said system, the arrangement of said reservoir being such that steam generated in the system forces the water downwardly out of said cooling unit into said reservoir.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

American Hair Felt Co., Chicago, Ill. Felt. 169,084; June 5; Serial No. 173,067; published Feb. 27, 1923.
American Lady Corset Company. (See Schilling Corset Co., assignor.)
American Powder Mills, Boston, Mass. Sporting gunpowder. 23,458; renewed Aug. 8, 1923.
American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Dress shirts. 169,103–4; June 5.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Hosiery. 169,126; June 5.
American Wringer Company, The. (See Bissell Carpet Sweeper Company, assignor.)
Arden, Elizabeth. (See Lewis, Florence N.)
Aspirin-Seltzer Co. (See Smith, George S.)
Barker, H. J., Chicago, Ill. Poultry fountains. 169,102; June 5.
Barrow Mfg. Co., New York, N. Y. Flat underwear of knitted and textile fabrics for women and misses. 169,093; June 5.
Beck, Harry, doing business as Beck's Forced Air Sweet Potato Curing System, Dallas, Tex. Dry-cured sweet potatoes. 169,128; June 5.
Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. 169,069; June 5; Serial No. 172,577; published Feb. 27, 1923.
Bissell Carpet Sweeper Company, Grand Rapids, Mich., assignor to The American Wringer Company, Providence, R. I. Clothes wringers. 23,054; renewed May 16, 1923.
Bond Marble Company, Knoxville, Tenn. Marble in unfinished blocks. 169,065; June 5; Serial No. 172,256; published Mar. 13, 1923.
Bostwick Steel Lath Company, The, Niles, Ohio. Expanded-metal lath and reenforcements for concrete structures, channel irons, etc. 169,094; June 5.
Bostwick Steel Lath Company, The, Niles, Ohio. Metal lath and expanded-metal reenforcements for concrete structures. 169,095; June 5.
Brager of Baltimore, Baltimore, Md. Hosiery. 169,052; June 5; Serial No. 168,198; published Mar. 20, 1923.
Brunning, Charles E., Indianapolis, Ind. Certain named medicines. 23,658; renewed Sept. 26, 1923.
Burgess Battery Company, Madison, Wis. Electric batteries. 169,089; June 5.
Butler & Clarridge, assignors to William C. Field, Washington, D. C. Remedies for rheumatism, gout, neuralgia, sciatica, and kindred ailments. 23,797; renewed Nov. 7, 1923.
C. & B. Rice Mills, Glenn County, Calif. Natural brown rice. 169,042; June 5; Serial No. 155,667; published Dec. 19, 1922.
Cabana, Oliver, jr., Buffalo, N. Y. Glue for mending china, glass, leather, etc. 23,406; renewed July 25, 1923.
Caron Corporation. (See Daltroff, E., & Cie., assignor.)
Clinton Corn Syrup Refining Company, Clinton, Iowa. Corn sirup, gluten feed, oil-cake meal, etc. 169,121; June 5.
Colgate & Co., New York, N. Y., assignor to Colgate & Company, Jersey City, N. J. Toilet soap. 23,623; renewed Sept. 19, 1923.
Controllograph Co., The, Los Angeles, Calif. Ticket printing, registering, issuing, adding, etc., machines. 169,081; June 5; Serial No. 172,978; published Mar. 6, 1923.
Country Editor Publishing Company, The. (See Randolph, Teasdale.)
Dabrooks' Perfume Company. (See Williams, Davis, Brooks & Co., assignors.)
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Perfume, toilet water, rouges, face powder, talcum powder, etc. 169,118; June 5.
David, Albert, New York, N. Y. Artificial-silk fiber. 169,071; June 5; Serial Nos. 170,712–13; published Mar. 13, 1923.
David, Albert, New York, N. Y. Artificial-silk fiber. 169,073; June 5; Serial No. 170,713; published Mar. 13, 1923.
Day-Gormley Leather Co., Boston, Mass. Finished leather. 169,040; June 5; Serial No. 119,153; published Feb. 27, 1923.
Demuth, Wm., & Co., New York, N. Y. Tobacco pipes and cases. 169,111; June 5.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Pyroxylin, nitrocellulose, pyroxylin and artificial ivory. 169,039; June 5; Serial No. 170,241; published Mar. 13, 1923.
Edward Lyman Bill, Inc., New York, N. Y. Monthly magazine. 169,079; June 5; Serial No. 172,662; published Feb. 27, 1923.
Elliott, Clyde E., New York, N. Y. Pictures, motion-picture films, machines for taking and projecting pictures, etc. 169,048; June 5; Serial No. 162,392; published Mar. 13, 1923.
Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Dyestuffs. 169,100; June 5.
Eureka Fire Hose Company, assignor to Eureka Fire Hose Manufacturing Company, New York, N. Y. Hydraulic and fire hose. 23,616–17; renewed Sept. 19, 1923.
Eureka Fire Hose Company, assignor to Eureka Fire Hose Manufacturing Company, New York, N. Y. Hydraulic or fire hose. 23,618; renewed Sept. 19, 1923.
Federal Record Corporation, Albany, N. Y. Talking-machine records. 169,107; June 5.
Fernandez, Philip, doing business as Standard Export Company, Boston, Mass. Leather. 169,064; June 5; Serial No. 171,795; published Mar. 13, 1923.
Field, William C. (See Butler & Clarridge, assignor.)
Fisher, Fred, Inc., New York, N. Y. Sheet music and music books. 169,053; June 5; Serial No. 168,577; published Mar. 13, 1923.
Florida Citrus Exchange, Tampa, Fla. Fresh citrus fruits. 169,047; June 5; Serial No. 162,105; published Feb. 6, 1923.
Former Corporation, The. (See Philipsborn's Inc.)
Fritz, Edward B., Chicago, Ill. Monthly educational journal. 169,062; June 5; Serial No. 171,634; published Mar. 13, 1923.
Gandy Belting Company, The, Baltimore, Md. Publication issued at irregular intervals. 169,082; June 5; Serial No. 173,042; published Feb. 27, 1923.
Gould, Edward H., doing business as Gould Mfg. Co., Philadelphia, Pa. Liniment for the treatment of rheumatism, neuritis, lumbago, sprains, etc. 169,096; June 5.
Grinnell, Willis, assignor to Ridley Watts & Co., New York, N. Y. Bleached, brown, and printed cotton goods. 22,903; renewed May 2, 1923.
Grinnell, Willis, assignor to Ridley Watts & Co., New York, N. Y. Bleached, brown, and printed cotton goods. 23,022; renewed May 16, 1923.
Horstmann, William, Falls City, Nebr. Skin lotion. 169,110; June 5.
Hunt, C. W., Co., assignor to C. W. Hunt Company, Inc., New York, N. Y. Rails, switches, metal cars, wheels, and trucks. 22,959; renewed May 2, 1923.
Hurd, George B., & Co., New York, N. Y. Writing paper and envelopes. 23,708; renewed Oct. 17, 1923.
Illinois Canning Co., assignor to The Illinois Canning Co., Hoopeston, Ill. Canned corn. 23,463; renewed Aug. 8, 1923.
Illinois Women's Athletic Club, Chicago, Ill. Monthly periodical. 169,056; June 5; Serial No. 171,321; published Feb. 27, 1923.
Imperial Tobacco Company of Canada, Limited. (See Ritchie, D. & Co., assignor.)
Jack-O-Lantern Board, Hanover, N. H. Periodical publication of a literary nature. 169,077; June 5; Serial No. 171,084; published Mar. 13, 1923.
Johnson, Jas. G. & Co., New York, N. Y. Silk, artificial-silk, cotton, wool piece goods, etc. 169,112; June 5.
Keystone Consolidated Publishing Company, Pittsburgh, Pa. Industrial and trade directories, directories of one or more specific industries, and combined catalogues. 169,086; June 5; Serial No. 173,288; published Feb. 27, 1923.
Kistler Leather Company, South Boston, Mass. Leather. 169,045; June 5; Serial No. 158,931; published Feb. 27, 1923.
Konroe Merchants. (See Robert, Samuel.)
Koster, Christian H., doing business as Chrs. Koster & Son, New York, N. Y. Eggs. 169,119; June 5.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Perfumes. 169,109; June 5.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Skin lotion. 169,090; June 5.
Little Giant Company, Mankato, Minn. Metal signs. 169,072; June 5; Serial No. 170,394; published Mar. 13, 1923.
Locatelli, Ercole H., doing business as Mattia Locatelli, New York, N. Y. Cheese. 169,122–4; June 5.
McCord Manufacturing Company, Inc., Detroit, Mich. Publications—namely, catalogues. 169,087; June 5; Serial No. 173,291; published Feb. 27, 1923.
Manhattan Electrical Supply Company, Inc., New York, N. Y. Telephonic receivers and head sets. 169,088; June 5; Serial No. 174,253; published Mar. 27, 1923.
Marcus Mason & Co., New York, N. Y., assignor to Marcus Mason & Co., Inc., Boston, Mass. Coffee classifiers, hullers, polishers, power screens, pulpers, and elevators; 22,676; renewed Mar. 21, 1923.
Marcus Mason & Co., New York, N. Y., assignor to Marcus Mason & Co., Inc., Boston, Mass. Coffee machinery. 22,803; renewed Apr. 11, 1923.
Mariani, Scipio, Exeter, Pa. Maltless nonalcoholic beverage to be sold as a soft drink. 169,106; June 5.
Meier, Virginia A. P. (See Petzelt, Christopher, assignor.)

Mifflin Chemical Corp., Philadelphia, Pa. Molasses. 169,127; June 5.
Munsingwear Corporation, The, Minneapolis, Minn. Underwear, knit or woven, and hosiery. 169,038; June 5; Serial No. 175,508; published Apr. 3, 1923.
Napier, Robert L., Bleiheim, S. C. Beverages sold as soft drinks. 169,091; June 5.
Nashville Banner Publishing Company, Nashville, Tenn. Daily newspaper. 169,078; June 5; Serial No. 171,099; published Feb. 27, 1923.
National Association of Hosiery and Underwear Manufacturers, New York, N. Y. Section of a periodical at present issued weekly. 169,076; June 5; Serial No. 171,032; published Feb. 27, 1923.
Nevins, Herbert, doing business as H. Nevins Co., Peoria, Ill. Shoe dressing auto top and carriage dressing. 169,099; June 5.
New York Tribune, Inc., New York, N. Y. Title of a newspaper column. 169,066; June 5; Serial No. 172,430; published Mar. 13, 1923.
Newton, Chambers & Company, Ltd., near Sheffield, England. Disinfectants. 23,664; renewed Sept. 26, 1923.
Niss, C., & Sons, Inc., Milwaukee, Wis. Furniture for homes. 169,041; June 5; Serial No. 149,345; published Feb. 27, 1923.
Norristown Herald, Inc., Norristown, Pa. Periodical publication published daily. 169,059; June 5; Serial No. 171,431; published Mar. 13, 1923.
Norwood, Edwin P., Chicago, Ill. Serial story. 169,063; June 5; Serial No. 172,009; published Feb. 27, 1923.
Ohio Leather Company, The, Girard, Ohio. Leather. 169,049; June 5; Serial No. 165,977; published Mar. 13, 1923.
Parfumerie Caron. (See Daltroff, E., & Cie.)
Pears, A. & F., Ltd., London, England. Certain named toilet articles and preparations. 22,843; renewed Apr. 18, 1923.
Peirson, Lemuel H., Los Angeles, Calif. Face-powder cakes. 169,125; June 5.
Peroxide Chemical Co., The, St. Louis, Mo. Toilet cream. 169,116; June 5.
Petzelt, Christopher, assignor to Virginia A. Petzelt Meier, doing business as C. Petzelt Manufacturing Company, Philadelphia, Pa. Face ointment for beautifying the skin. 22,935; renewed May 2, 1923.
Philipsborn's Inc. (now by change of name The Former Corporation), Chicago, Ill., assignor to Philipsborn's Inc. Ladies' and misses' underwear. 169,092; June 5.
Press Publishing Company, New York, N. Y. Colored comic page in the Sunday World newspaper. 169,075; June 5; Serial No. 170,896; published Feb. 27, 1923.
Randolph, Teasdale, doing business as The Country Editor Publishing Company, New York, N. Y. Title for a monthly magazine. 169,058; June 5; Serial No. 171,389; published Feb. 27, 1923.
Reilly, William J., Brooklyn, N. Y. Leather floor mats and runners. 169,044; June 5; Serial No. 158,154; published Mar. 13, 1923.
Ridley Watts & Co. (See Willis, Grinnell, assignor.)
Ritchie, D., & Co., assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Canada. Tobacco, cigars, cigarettes, and cheroots. 23,349; renewed July 11, 1923.
Robert, Samuel, doing business as Konroe Merchants, New York, N. Y. Horticultural and floricultural products. 169,085; June 5; Serial No. 173,245; published Mar. 13, 1923.
Rocky Mountain Bank Note Company, Pueblo, Colo. Paper, particularly writing and printing papers. 169,098; June 5.
Rogers, Bertram C., Pittsburgh, Pa. Electrical apparatus. 169,097; June 5.
Rogers Brothers, New York, N. Y. Face and talc powders, almond lotion, cold cream, etc. 169,046; June 5; Serial No. 161,453; published July 25, 1922.
Rowden, Walter O., Wills Point, Tex. Selected cottonseed. 169,120; June 5.
Saks & Company, New York, N. Y. Women's aprons. 169,105; June 5.
Schilling Corset Co., assignor to American Lady Corset Company, Detroit, Mich. Corsets. 23,242; renewed June 27, 1923.
Smith, Basil L., System, Inc., The, Philadelphia, Pa. Completely-printed classified advertising forms and instruction sheets. 169,054; June 5; Serial No. 169,228; published Mar. 13, 1923.
Smith, George S., doing business as Aspirin-Seltzer Co., New York, N. Y. Preparation for the treatment of headache, neuralgia, colds, grippe, and rheumatism. 169,117; June 5.
Standard Export Company. (See Fernandez, Philip.)
Stanley Work, The, New Britain, Conn. Rules, levels, squares, marking gauges, and bevels. 169,067; June 5; Serial No. 172,564; published Mar. 6, 1923.
Stanley Works, The, New Britain, Conn. Rules, levels, squares, marking gauges, and bevels. 169,080; June 5; Serial No. 172,692; published Mar. 6, 1923.
Steele, May W. (See White, Edward B., assignor.)
Swastika Fuel Company, Raton, N. Mex. Coal and coke. 169,060–1; June 5; Serial Nos. 171,597–8; published Mar. 27, 1923.
Swift & Company, Chicago, Ill. Substitute for lard. 22,797; renewed Apr. 11, 1923.
Taylor, Edward C., New York, N. Y. Electric-light traffic signals for use on self-propelled vehicles. 169,055; June 5; Serial No. 169,191; published Feb. 13, 1923.
Textile Publishing Company, New York, N. Y. Weekly publication. 169,070; June 5; Serial No. 172,659; published Feb. 27, 1923.
Tiffany & Company, New York, N. Y. Bronzes and silver and plated ware. 23,572; renewed Sept. 5, 1923.
Tiffany & Company, New York, N. Y. Jewelry and watches. 23,573; renewed Sept. 5, 1923.
Tingue, Brown & Co., New York, N. Y. Felt piece goods. 169,083; June 5; Serial No. 173,153; published Feb. 27, 1923.
Tracy Company, Inc., The, New London, Conn. Remedy for indigestion. 169,115; June 5.
Trostel, Albert O., Milwaukee, Wis. Leather. 169,051; June 5; Serial No. 167,274; published Mar. 27, 1923.
Van Lill Preserving Company, assignor to S. J. Van Lill Co., Baltimore, Md. Preserves, jellies, fruit butters, and mincemeat. 23,254; renewed June 27, 1923.
Vita Rice Products Co., Glenn County, Calif. Preparation made from rice in powdered and liquid form. 169,043; June 5; Serial No. 155,718; published Dec. 19, 1922.
Wadsworth, Howland & Company, Incorporated, Boston, Mass. Tinted leads. 23,110; renewed May 30, 1923.
Walden-Worcester Inc., Worcester, Mass. Socket wrenches. 169,057; June 5; Serial No. 171,344; published Mar. 6, 1923.
Watson, Orrin W., doing business as Watson Boat Works, Spokane, Wash. Boats. 169,113; June 5.
White, Edward B., assignor to May White Steele, doing business as White's Neuralgia Remedy, Lancaster, Ohio. Remedy for neuralgia. 22,648; renewed Mar. 14, 1923.
White's Neuralgia Remedy. (See White, Edward B.)
Whitman & Keith Co., Brockton, Mass. Publication issued periodically. 169,074; June 5; Serial No. 170,852; published Feb. 27, 1923.
Whitmore, William A., Baltimore, Md. Liniment. 169,114; June 5.
Williams, Davis, Brooks & Co., assignor to Dabrooks' Perfume Company, Detroit, Mich. Perfumes. 23,223; renewed June 20, 1923.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving sticks. 169,108; June 5.
Willow Weaving Co., Inc., New York, N. Y. Neckties, knitted and woven neckties, cravats, and mufflers. 169,129; June 5.
World Publication Company, Los Angeles, Calif. Weekly newspaper. 169,068; June 5; Serial No. 172,571; published Feb. 27, 1923.
Yunker, J. B., & Sons, Milwaukee, Wis. Leather. 169,050; June 5; Serial No. 167,037; published Mar. 13, 1923.
Zion's Co-Operative Mercantile Inst., Salt Lake City, Utah. Overalls, coats, play suits, auto suits, khaki pants, and shirts. 169,101; June 5.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bechtold, Charles, Brooklyn, N. Y. PorceVeneer. For Dental Crowns and Bridges. 26,041; June 5.
Bennington Wax Paper Company, Bennington, Vt. Slip-Sheet Package. For Paper Specialties, and Especially on Wax Paper. 26,042; June 5.
Edwards, Henry C., also doing business as Imperial Fruit Products Co., Los Angeles, Calif. Eatem. For Dates Stuffed with Nuts. 26,043; June 5.
Emerson Drug Co., Baltimore, Md. Emerson's Ginger-Mint Julep. For a Nonalcoholic Beverage and Sirups and Concentrates for Use in said Beverage. 26,044; June 5.
Freund, Freund & Company, New York, N. Y. Slovaka Nankin. For Nankins. 26,045; June 5.
Goodman, A., & Sons, Inc., New York, N. Y. Goodman's Pure Matzoth Meal. For Matzoth Meal. 26,046; June 5.
Hearn, James A., & Son, Inc., New York, N. Y. Hearn Infants Wear. For Infants' Wear. 26,047; June 5.
Hirschman, Jerome, Ocean Park, Calif. Pepkik. For Hamburger-Sausage Sandwiches. 26,048; June 5.
Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Butter-Kist. For Pop Corn. 26,049; June 5.
Imperial Fruit Products Co. (See Edwards, Henry C.)
Karp, Joseph H., New York, N. Y. Noble-Heart Egyptian Henna Powder. For a Preparation for Brightening and Glinting the Hair. 26,050; June 5.
Kellogg Company, Battle Creek, Mich. Kellogg's Corn Flakes. For Cereal Food. 26,051; June 5.

Modern Pure Food Products Co., New York, N. Y. Nocock Eagle Brand Malthop. For Malt Extract. 26,052; June 5.
Northern Paper Mills, Green Bay, Wis. Northern Towels. For Wrapper for Folded Paper Towels. 26,053; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Vitacreme Pancake Flour. For Cereal Products. 26,054; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Vitems of Corn. For Cereal Products. 26,055; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Vitawheat Flour. For Cereal Products. 26,056; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Marvel Meal. For Cereal Products. 26,057; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Marvel Hog Chops. For Cereal Products. 26,058; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Marvel Scratch Feed. For Cereal Products. 26,059; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Marvel Chick Feed. For Cereal Products. 26,060; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Vitems of Wheat. For Cereal Products. 26,061; June 5.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, Owensboro, Ky. Vita Wheat. For Cereal Products. 26,062; June 5.
Standard Biscuit Company, San Francisco, Calif. One Biscuit Morning, Noon & Night. For Biscuits. 26,063; June 5.
Stimpson, Edwin B., Company, Brooklyn, N. Y. Forked Rivets. For Rivets. 26,064; June 5.
Swantex Products Corporation, New York, N. Y. Swantex Sanitary Napkins. For Packages and Cartons of Sanitary Paper Napkins. 26,065; June 5.
Vapo Products Co., Inc., Sandpoint, Idaho. Vapo Products. For Rug and Carpet Cleaning Compound. 26,066; June 5.
Vapo Products Co., Inc. Sandpoint, Idaho. Vapo Products. For a Natural Hand Cleanser. 26,067; June 5.
Vrhel, Chas. F., Chicago, Ill. Praz Droy. For Malt Extract. 26,068; June 5.
West Electric Hair Curler Company, Philadelphia, Pa. Every Day. For Hair Nets. 26,069; June 5.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Boyd, Charles G., Bethlehem, Pa. Six Feet Foot Comfort. For Foot Powders for Foot Baths. 6,744; June 5.
Carleton & Hovey Company, Lowell, Mass. Father John Between Two Billboards. For Father John's Medicine. 6,745; June 5.
Carleton & Hovey Company, Lowell, Mass. Fortified For Life. For Father John's Medicine. 6,746; June 5.
Gladding Dry Goods Co., Providence, R. I. Thriftables. For Women's Apparel. 6,747; June 5.
Hills Bros., San Francisco, Calif. First on the List. For Coffee. 6,748; June 5.
Kant-Break Ladders, Inc., St. Louis, Mo. Kant-Break. For Ladders. 6,749; June 5.
"Onyx" Hosiery Inc., New York, N. Y. "Onyx" Hosiery. For Hosiery. 6,750; June 5.
Palmolive Company, The, Milwaukee, Wis. Now I Ask a Favor of the Ladies. For Palmolive Shampoo. 6,751; June 5.
Park & Pollard Company, The, Boston, Mass. The Park & Pollard Co. Lay or Bust Poultry Feeds. For Poultry Feeds. 6,752; June 5.
Swantex Products Corporation, New York, N. Y. Swantex. For Sanitary Paper Napkins. 6,753; June 5.
Whyt-E-Naml Specialty Co., Inc., New York, N. Y. Whyr E Naml. For Enamel Fixtures. 6,754; June 5.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A-I Manufacturing Co., Bradford, England. Electric welding machines and parts thereof and electric tools for welding purposes and parts thereof. 125,101; June 5.
Abilene Flour Mills Co., The, Abilene, Kans. Wheat flour. 171,780; June 5.
Adams, Alfred B., New York, N. Y. Biotherapeutic and opotherapeutic products. 176,004–7; June 5.
Adams, Alfred B., New York, N. Y. Biotherapeutic and opotherapeutic products. 176,009–10; June 5.
American Dealers Trading Corporation, Huntington, Pa. Wheat flour. 173,990; June 5.
American Lock Manufacturing Co., assignor, by mesne assignments, to J. Junkung, Chicago, Ill. Locks. 155,292; June 5.
American Milling Company, Peoria, Ill. Chick mash. 172,926; June 5.
American Milling Company, Peoria, Ill. Egg mash. 172,925; June 5.
American Motorsign Company, Cincinnati, Ohio. Moving-advertisement-projection machines. 172,971; June 5.
American Summer Clo Co., New York, N. Y. Men's mohair suits. 170,553; June 5.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Knitted underwear, sweaters, and bathing suits. 172,817; June 5.
Amsterdam, Peter, doing business as The Amsterose Co., Philadelphia, Pa., and New York, N. Y. Shaving cream. 171,720; June 5.
Amsterose Co., The. (See Amsterdam, Peter.)
Anaconda Copper Mining Company, New York, N. Y. Finished commutator copper bars and strips. 177,063; June 5.
Anaconda Copper Mining Company, New York, N. Y. Finished commutator copper bars and strips. 177,209; June 5.
Angel, H. Reeve, & Co., Inc., New York, N. Y. Bond and correspondence paper. 178,020; June 5.
Apfelbaum, Frederick A., New York, N. Y. Lantern slides. 158,280; June 5.
Archibald & Lewis Company, New York, N. Y. Spices, birdseed, bird food, seasoning herbs, tapioca. 165,475; June 5.
Arden, Elizabeth. (See Lewis, Florence N.)
Arkelian, Ben H., & Co., Fresno, Calif. Fresh grapes and cantaloupes. 164,482; June 5.
Armand Company, The, Des Moines, Iowa. Cold-cream powder. 174,994; June 5.
Atlantic Overall & Shirt Co., Philadelphia, Pa. Overalls, trousers, and work shirts. 173,992; June 5.
Atlas Rubber Company. (See Schulthess, Ernest.)
Baker, Jos. G., Richmond, Va. Cleanser for all kinds of finished surfaces, such as paint, varnish, tile, glass, etc. 175,458; June 5.
Ballard and Ballard Company, Louisville, Ky. Wheat flour—namely, self-rising flour. 156,434; June 5.
Ballard & Ballard Company, Louisville, Ky. Wheat flour—namely, self-rising flour. 159,078; June 5.
Bankers Supply Co., The, Denver, Colo., and Chicago, Ill. Safety paper—viz, blank checks. 179,391; June 5.
Barlith Company, The, San Francisco, Calif. Liquid waterproofing composition for wood, brick, etc. 173,126; June 5.
Battle Creek Food Company, Battle Creek, Mich. Cereal breakfast food. 174,722; June 5.
Baumann, Carl A., doing business as Lake Mills Milk Company, Jefferson, Wis. Canned evaporated milk. 155,661; June 5.
Beck, Wm. & Chas., Inc., Lawrence, Mass. Cotton fire hose. 177,950; June 5.
Bell, Claude A., Tyngsboro, Mass. Artificial-vanilla flavoring compound for candies, cakes, pies, puddings, and ice cream. 169,148; June 5.
Berger Hosiery Company, Philadelphia, Pa. Hosiery. 167,040; June 5.
Bernhard Ulmann Co. Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 176,378; June 5.
Bernhard Ulmann Co. Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 176,380; June 5.
Best & Co. Inc., New York, N. Y. Women's and misses' furnishings and clothing. 174,884; June 5.
Bieg, Elsie W., Chicago, Ill. Chinaware. 177,472; June 5.
Biltmore Industries. (See Grove Park Inn, Inc.)
Birdsey-Somers Co., New York, N. Y. Corsets, brassières, and girdles. 177,212; June 5.
Black Bros. Flour Mills, Beatrice, Nebr. Poultry feed. 172,792; June 5.
Black Bros. Flour Mills, Beatrice, Nebr. Wheat flour. 167,703; June 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Blanchette, Auguste, Pawtucket, R. I. Ointment for external use for cuts, bruises, sprains, and eruptions. 174,887; June 5.
Bonded Products Corporation, New York, N. Y. Soap and soap products. 177,352–3; June 5.
Boyd, Lunham & Company, Chicago, Ill. Lard. 174,607; June 5.
Bozeman, Mike E., doing business as Hampton Medicine Company, Winnfield, La. Preparation for impure blood. 173,871; June 5.
Bramberger Reinthal Company, The, Cleveland, Ohio. Caps. 173,459; June 5.
Brawner, Henry N., jr., doing business as Chestnut Farms Dairy, Washington, D. C. Butter. 161,347; June 5.
Breit, Antol M., doing business as Crescent Rubber Specialty Company, Chicago, Ill. Bloomers for babies and children. 175,296; June 5.
Brogan, Byard F., Philadelphia, Pa. Finger rings, pendants, scarfpins, etc. 176,716; June 5.
Brooks, Robert W., doing business as Brooks Paper Company, St. Louis, Mo. Stereotyping and copying tissue. 176,534; June 5.
Brooks, William H., San Francisco, Calif. Meat pies, meat dumplings, and foods having a meat filler. 167,597; June 5.
Brown & Bigelow, St. Paul, Minn. Caps for men, women, or children, and aprons made of cloth. 160,743; June 5.
Brueck, Joseph, doing business as Glossine Chemical Co., New York, N. Y. Composition of matter for facilitating the extraction of hairs from the faces and hands of humans. 175,130; June 5.
Bullet Proof & Non-Shatterable Glass Corporation, New York, N. Y. Glass. 176,717–8; June 5.
Burnham & Morrill Company, Portland, Me. Fish cakes, codfish cakes, clams, alimentary paste products, etc. 173,399; June 5.
Burnstine, Abraham, Washington, D. C. Watches, clocks, chronometers, and parts for same. 172,632; June 5.
Butler, J. W., Paper Company, Chicago, Ill. Paper. 177,213; June 5.
Cafe L' Aiglon. (See Patton, John G.)
California Jelly-Juce Company. (See Hulburt, H. L.)
Calverley, Charles D., doing business as C. D. Calverley & Co., East St. Louis, Ill. Corn meal. 174,064; June 5.
Calvert, Howard R., Medina, Ohio. Shoe and leather polishes. 177,358; June 5.
Central Wisconsin Canneries, Beaver Dam, Wis. Canned peas. 173,807; June 5.
Chacon, R. M. A., doing business as The Chacon Trading Company, New York, N. Y. Hydrocarbon materials or asphaltum products. 175,000; June 5.
Challenge Company, Batavia, Ill. Windmills, gasoline engines, windmill pumps, siphon pumps, etc. 174,724; June 5.
Chamberlin, Benjamin F., doing business as B. F. Chamberlin, Boston, Mass. Molded rubber heels and soles, fiber soles and heels, shoes, and rubber and fiber top lifts. 141,855–6; June 5.
Chase, L. C., & Company, Boston, Mass. Rug and carpet bolders and materials for same. 174,289; June 5.
Chemical Novelty Co., Inc., New York, N. Y. Colors for frosting lamps. 174,071; June 5.
Chemitex Products Company, The, Akron, Ohio. Artificial patent and suede leather and rubber surface cloth. 174,233; June 5.
Chestnut Farms Dairy. (See Brawner, Henry N., jr.)
Ciepiela, Peter, Fall River, Mass. Hand soap. 175,850; June 5.
Clyde Creamery Company, Clyde, N. Y. Butter. 167,290; June 5.
Cocroft, Susanna, Laboratories, Inc., New York, N. Y. Perfume, toilet water, sachet powder, face powder, etc. 175,467–8; June 5.
Cohen & Edelman, New York, N. Y. Women's coats, skirts, knickerbockers, suits, and dresses. 170,740; June 5.
Cole Chemical Company, St. Louis, Mo. Tonics, preparations for use in the treatment of hyperthyroidism, goiter, etc. 175,770; June 5.
Concordia Silk Hosiery Company, Philadelphia, Pa. Hosiery. 172,521–2; June 5.
Copperstone Products Co., The, Toledo, Ohio. Mineral aggregate as ingredients for road surfacing, pavements, floors, etc. 177,277; June 5.
Corby Baking Company, Inc., The, Washington, D. C. Bread. 167,292; June 5.
Corrado & Marranzini, New York, N. Y. Olive oil. 164,493; June 5.
Coty, Francois J. de S., Suresnes, France. Perfumes, toilet waters, face powders, sachet powders, etc. 169,238; June 5.
Crescent Rubber Specialty Company. (See Breit, Antol M.)
Daggett & Miller Co. Inc., Providence, R. I. Hair tonics. 175,007; June 5.
Dainty Maid Company, Somerville, Mass. Salad dressing, mayonnaise, tartar sauce, mustard, olive pimento mayonnaise, etc. 150,138; June 5.
Da Roza-Doherty Company, The, San Francisco, Calif. Dried fruits and vegetables, canned fruits and vegetables, fresh grapes, melons, etc. 174,428; June 5.
Davenport-Taylor Mfg. Company, Chicago, Ill. Interchangeable cut-to-shape letters and figures of resilient material. 175,471; June 5.
Davis-Smith Company, The, Boston, Mass. Yearly almanac. 172,640; June 5.
De Klyn Candy Company, The, Cleveland, Ohio. Confectionery. 156,520; June 5.
Deming Company, The, Salem, Ohio. Pumps, including hydraulic rams. 175,923; June 5.
Denio, J. W., Milling Company, The, Sheridan, Wyo. Wheat flour. 164,024; June 5.
Detroit Celery and Produce Company. (See Perlmon, Sol.)
Detroit Lubricator Company, Detroit, Mich. Locomotive lubricators, stationary lubricators, valve and oil cups. 176,955; June 5.
Dickinson, Albert, Company, The, Chicago, Ill. Dairy feed. 175,074; June 5.
Dickinson, Albert, Company, The, Chicago, Ill. Poultry feed. 175,073; June 5.
Dickson, Hugh F., Covington, Tenn. Salve for the treatment of pneumonia, influenza, croup, asthma, and colds. 174,768; June 5.
Dorr, Arthur E., & Co., Boston, Mass. Butter, olives, and oleomargarine. 80,177; June 5.
Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons. 178,236; June 5.
Dubilier Condenser and Radio Corporation, New York, N. Y. Crystal detectors and rectifiers. 178,333; June 5.
Dunlop Milling Co., Clarksville, Tenn. Wheat flour. 162,808; June 5.
Eastern Auto Products Co., Providence, R. I. Chemical carbon remover for internal-combustion engines. 167,076; June 5.
Eddine Manufacturing Co., The, Cleveland, Ohio. Medicinal agents for the external treatment of bodily pains. 175,548; June 5.
Edelstein Company, New York, N. Y. Watches and watchcases. 174,895; June 5.
Eiseman, Samuel, & Co. Inc., New York, N. Y. Silk piece goods and silk and cotton mixture piece goods. 171,691; June 5.
Elizabeth Arden. (See Lewis, Florence N.)
Elson & Church, Los Angeles, Calif. Fireplaces. 177,431; June 5.
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. 152,791; June 5.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. 166,821; June 5.
Fabrik Stolzenberg, Deutsche Bureau-Einrichtungs-Gesellschaft mit beschrankter Haftung, Oos, Germany. Typewriting machines and parts thereof and mechanical copying machines. 171,988; June 5.
Fabriques des Montres Zenith, Le Locle, Switzerland. Vehicle watches, clocks, alarm clocks, and parts of clocks. 171,015; June 5.
Fairbank, N. K., Company, The, New York, N. Y. Common soap. 177,905; June 5.
Federal Rubber Company of Illinois, The, Chicago, Ill., and Cudahy, Wis. Tires made wholly or in part of rubber. 178,336; June 5.
Feinburg, David, Company, doing business as Snappee Co., Chelsea, Mass. Spring covers and grease boots. 172,643; June 5.
Fendelman Brothers Cap and Hat Manufacturing Company, St. Louis, Mo. Caps for men, women, and children. 177,287; June 5.
Field & Flint Co., Boston and Brockton, Mass. Shoes. 175,717–8; June 5.
Fitzgerald Manufacturing Company, The, Torrington, Conn. Sheet-metal and asbestos gaskets. 174,730; June 5.
Flashner, Joseph, doing business as Hirsch & Flashner, New York, N. Y. Pearls and artificial pearls. 175,138; June 5.
Flexo Co., The, Fredericksburg, Va. Dressing oil suitable for softening and preserving articles of leather and similar substances. 178,243; June 5.
Fogarty Manufacturing Company, The, Dayton, Ohio. Tags. 175,783; June 5.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,989; June 5.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,992–4; June 5.
Franklin Knitting Mills, Inc., New York, N. Y. Knitted scarfs and bow ties. 175,238; June 5.
Frenkel, L. & E., Inc., New York, N. Y. Flours—namely, wheat and semolinas. 174,433; June 5.
Frostilla Company, The. (See Shoemaker, Flora H.)
Fuhrman, O., Inc., New York, N. Y. Leather shoes and storm rubbers. 170,741; June 5.
Garbarini, André, Courbevoie, France. Portable heating apparatus. 165,750; June 5.
Garrett, Clara E., New York, N. Y. Hand-decorated silk and velvet goods in the piece. 178,915; June 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gerhardt, Jacob, & Company, Incorporated, New York, N. Y. Outer, negligee, and work shirts for men. 172,670; June 5.
Glossine Chemical Co. (See Brueck, Joseph.)
Goodrich, B. F., Company, The, New York, N. Y. Inner tubes. 175,720; June 5.
Goudey Gum Company, The, Boston, Mass. Chewing gum. 156,001; June 5.
Graffin & Dolson, New York, N. Y. Cretonnes in the piece. 176,462; June 5.
Graham, Edward A., doing business as Alfred Graham & Co., London, England. Telephonic receivers. 146,021; June 5.
Grande Maison De Blanc, Inc., New York, N. Y. Handkerchiefs, lace trimmings, ribbons, etc. 175,142; June 5.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Butter. 174,776; June 5.
Great Notch Paper Company, Inc., New York, N. Y. Wrapping paper. 178,502; June 5.
Grindle Fuel Equipment Company, Harvey, Ill. Apparatus for preparing, conveying, and burning comminuted fuel. 175,551; June 5.
Grove Park Inn, Inc., doing business as Biltmore Industries, Asheville, N. C. Woolen homespun textile fabrics in the piece. 172,988; June 5.
Hall, C. C., Inc., Rochester, N. Y. Dried fruits 173,421; June 5.
Hampton Medicine Company. (See Bozeman Mike E.)
Harriss, William H., New York, N. Y. Cotton, silk, woolen, or jute fabrics. 177,780; June 5.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 175,241; June 5.
Heimbach Incinerator Co., St. Paul, Minn. Incinerators. 175,427; June 5.
Hergy Company, The, Hillsboro, Tex. Salve for eczema, piles, ringworm, etc. 175,082; June 5.
Heron, Norman C., doing business as N. C. Heron Co., Los Angeles, Calif. Eucalyptus remedies for colds, catarrh, and rheumatism. 161,312; June 5.
Hicks Corporation, The, Pittsburgh, Pa. Dish-washing machines. 173,355; June 5.
Hirsch & Flashner. (See Flashner, Joseph.)
Hockmeyer Bros., New York, N. Y. Cotton piece goods. 179,369; June 5.
Holland O'Neal Milling Co., Mount Vernon and Springfield, Mo. Wheat flour. 175,102; June 5.
Homo Phone Co., The. (See Miller, Howard A.)
Hooven, Owens, Rentschler Company, The, Hamilton, Ohio. Piston rings. 173,356; June 5.
Howse, Mead & Sons, Lt., London, England. Serges in the piece. 178,722; June 5.
Huey & Mathews, Inc., Pittsburgh, Pa. Coffee, tea, bread, pastry flour, marshmallow creme, and salad dressing. 170,019; June 5.
Huff, Barnes & Opie, Inc., Pittsburgh, Pa. Wrapping paper. 174,520; June 5.
Hulburt, H. L., doing business as California Jely-Juce Company, San Jose and Santa Clara, Calif. Fruit or berry juice to make jelly. 173,648; June 5.
Hulse, Abram C., jr., New York, N. Y. Hosiery. 174,080; June 5.
Irwin, I. Isaac, doing business as Irwin & Co., San Diego, Calif. Foods and feed for poultry, livestock, and cattle. 170,821; June 5.
Jamison, Jacob, Philadelphia, Pa. Outer suits for men and boys. 172,335; June 5.
Jay Garment Company, The, Portland, Ind. Work shirts. 172,839; June 5.
Jennings, George W., Chicago, Ill. Face creams, lotions, manicuring preparations, perfumes, etc. 175,058; June 5.
Johns-Manville, Incorporated, New York, N. Y. Fireproof non-heat-conducting materials. 177,786; June 5.
Johnson & Company, St. Peter, Minn. Negligee and work shirts, pants, overalls, and coats for men and children. 164,808; June 5.
Jones, Charles L., St. Louis, Mo. Insecticide for roaches, water bugs, ants, bedbugs, etc. 175,084; June 5.
Junkung, John. (See American Lock Manufacturing Co., assignor.)
Kandle, Albert L., doing business as Muturo Mfg. Co., Richmond, Va. Hair tonic. 158,047; June 5.
Knapp Brothers Manufacturing Company, Chicago, Ill. Bull-nose corner beads, small-nose corner beads, rail corner beads, etc. 174,082; June 5.
Kasco Mills, Inc., Waverly, N. Y. Dairy feed and rations. 158,872; June 5.
Kaufman, J., & Sons, New York, N. Y. Boys' sport caps. 175,499; June 5.
Keely & Watson, New York, N. Y. Woolen piece goods. 164,852; June 5.
Keeley Stove Company, The, Columbia, Penn. Cooking and heating stoves and ranges, furnaces, and hot-water heaters. 178,393; June 5.
Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. 179,275; June 5.
Kelly-Leater Milk Company, Philadelphia, Pa. Raw milk, raw cream, butter, milk and cottage cheese. 168,717; June 5.
Keystone Perfume Company. (See Vail Brothers.)
Kingsbury Company, The, Fort Wayne, Ind. Foot-bath preparations. 167,965; June 5.
Kirschbraun & Sons, Inc., Omaha, Nebr. Butter. 161,687; June 5.
Kittle, A. F., doing business as A. F. Kittle & Co., Los Angeles, Calif. Canned fish, fruit, and vegetables. 173,772; June 5.
Krank, A. J., Mfg. Co., St. Paul, Minn. Shampoo. 169,858; June 5.
Krueger-Tobin Co., Inc., New York, N. Y. Hosiery. 175,087; June 5.
Lake Mills Milk Company. (See Baumann, Carl A.)
Laskin-Swatt Co., El Paso, Tex. Cotton and wool piece goods. 170,145; June 5.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory cements. 170,029; June 5.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Scratch feed for poultry. 174,314; June 5.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Self-rising flour. 170,771; June 5.
Lea, Leander A., Bossier, La. Hair tonic. 175,503; June 5.
Lehman Brothers, Inc., New York, N. Y. Ladies' and misses' wearing apparel. 170,656; June 5.
Lehr, Horace, doing business as H. Lehr & Co., Easton, Pa. Upright and grand pianos, player pianos, electric and reproducing pianos, and phonographs. 177,494; June 5.
Leolith Products Corporation, New York, N. Y. Wall board, shingles, tiles, etc. 162,995; June 5.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Lip pastes and lip pencils. 174,842; June 5.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Rouge or powder. 177,856; June 5.
Libiach, Francois, Paris, France. Perfumery, scents, toilet water, hair water and dyes, etc. 170,982; June 5.
Linton, Robert H., New York, N. Y. Woolen piece goods. 178,930; June 5.
Lissauer & Company. (See Mirabeau, Marcel M.)
Loyd, Creth J., doing business as C. J. Loyd & Co., Greensburg, Ind. Dressed poultry and eggs. 175,255; June 5.
McDonaugh, Wm., & Sons, New York, N. Y. Disinfectants. 175,403; June 5.
McNasby Oyster Co., Annapolis, Md. Raw oysters and oysters in the shell. 155,269; June 5.
Majestic Manufacturing Company, St. Louis, Mo. Steamers, seamless steam kettles, copper-jacketed kettles, etc. 152,763; June 5.
Manchester Knitting Mills, Inc., Los Angeles, Calif. Men's, women's, and children's knitted and textile bathing suits. 174,844; June 5.
Manhattan Baking Powder Co., New York, N. Y. Cocoa pudding and cornstarch. 174,316; June 5.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 158,632; June 5.
Martin, W. & J., Glasgow, Scotland. Leather. 175,148; June 5.
Mauerhofer Söhne & Co., Trubschachen, near Langnau, Switzerland. Cheese and preserved cheese of Swiss origin. 173,936; June 5.
Mebane, Alexander D., Lockhart, Tex. Selected cottonseed. 173,848; June 5.
Mer-Sha Candies, St. Paul, Minn. Candy. 160,621; June 5.
Metro Electrical Co., Inc., Newark, N. J. Electrical telephone receivers. 177,795; June 5.
Midland Creamery Co. (See Perkins, William.)
Midland Flour Milling Co., The, Kansas City, Mo. Wheat flour. 175,095; June 5.
Milk Producers Association of Central California, Modesto, Calif. Butter. 172,281; June 5.
Miller, Howard A., doing business as The Homo Phone Co., Newark, N. J. Sound-record tablets and recording attachments for phonographs. 177,797; June 5.
Millman, S., & Son, Inc., New York, N. Y. Misses' and children's hats. 173,849; June 5.
Milwaukee Knitting Mills. (See Mirsky, I., M., & Son.)
Mirabeau, Marcel M., doing business as Lissauer & Company, New York, N. Y. Watchcases. 178,765; June 5.
Mirsky, I. M., & Son, doing business as Milwaukee Knitting Mills, Milwaukee, Wis. Knitted and textile hosiery and underwear. 170,591; June 5.
Mitchell, Harry, Chicago, Ill. Cloth commonly known as serge and usually sold by the piece. 176,492; June 5.
Mooney, Douglas & Pearson, Inc., New York, N. Y. Asphalt roofing, slate surfaced and talc surfaced. 172,486; June 5.
Moorhead Knitting Company, Harrisburg, Pa. Hosiery. 174,404; June 5.
Morris Levy Clothing Co., Inc., New York, N. Y. Suits, trousers, coats, topcoats, etc. 172,340; June 5.
Motor Curve Light Company, Delta, Colo. Electric lights and lighting fixtures for electric lights for motor cars. 177,987; June 5.
Mountain State Laboratories, Wheeling, W. Va. Hair dressing. 176,272; June 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Moviglass Company, Milford, Mass. Eyeglasses. 144,095; June 5.
Murdock, Wm. J., Co., Chelsea, Mass. Wireless apparatus. 167,482; June 5.
Muturo Mfg. Co. (See Kandle, Albert L.)
Nebraska Mill & Elevator Co., North Platte, Nebr. Wheat flour. 175,100; June 5.
Netherlands Corporation For Overseas Trade, Inc., New York, N. Y. Kapok and crude rubber. 173,522; June 5.
Netherlands Corporation For Overseas Trade, Inc., New York, N. Y. Sugar, rice, pepper, coffee, spices, condiments. 173,523; June 5.
Netherlands Corporation For Overseas Trade, Inc., New York, N. Y. Kapok and crude rubber. 173,524; June 5.
Netherlands Corporation For Overseas Trade, Inc., New York, N. Y. Sugar, rice, pepper, coffee, spices, and condiments. 173,525; June 5.
New York Girl Coat Co., New York, N. Y. Girls' coats. 169,491; June 5.
Nix Produce Company, Hastings, Fla. Irish potatoes. 165,300; June 5.
North American Mercantile Co., Inc., San Francisco, Calif. Canned fish, fruit, and vegetables. 174,909; June 5.
North Star Chemical Works, Inc., Lawrence, Mass. Leather preservatives. 155,630; June 5.
Northfield Flour Mills Company, Northfield, Minn. Wheat flour. 174,630; June 5.
Nuloid Corporation, Wilmington, Del., and New York, N. Y. Hard-rubber composition. 174,668; June 5.
Ohio Confection Company, The, Cleveland, Ohio. Candy. 162,763; June 5.
Orono Pulp & Paper Company, Bangor, Me. Wrapping paper. 179,549; June 5.
Otis Orchards Apple Company, Otis Orchards, Wash. Fresh apples. 173,361; June 5.
Pacent Electric Company, New York, N. Y. Control dials for use with radio apparatus. 177,241; June 5.
Pacific Coast Biscuit Company, Seattle, Wash. Fancy cookies. 174,854; June 5.
Palmolive Company, The, Milwaukee, Wis. Face powder. 175,942; June 5.
Parfumerie Roger & Gallet, Paris, France. Paste and powders for beautifying and preserving the teeth, skin, and hair, and perfumery. 171,866; June 5.
Parke, Davis & Company, Detroit, Mich. Hypodermic solutions. 176,361; June 5.
Parks & Parks, Inc., Troy, N. Y. Shoe brushes. 173,527; June 5.
Parks & Parks, Inc., Troy, N. Y. Shoe brushes. 173,529; June 5.
Patton, John G., doing business as Cafe L'Aiglon, Philadelphia, Pa. Raw and cooked oysters, and clams, cooked lobsters, scallops, etc. 101,176; June 5.
Perkins, William, doing business as Midland Creamery Co., St. Louis, Mo. Butter. 174,027; June 5.
Perlmon, Sol, doing business as Detroit Celery and Produce Company, Detroit, Mich. Fresh vegetables. 170,597; June 5.
Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. 174,334; June 5.
Pitts, A. E., Shoe Co., The, Columbus, Ohio. Shoes. 172,435–8; June 5.
Powell, Samuel S., Winterset, Iowa. Insecticide for fowls. 174,409; June 5.
Producers Canning and Packing Company, The, Salem, Oreg. Canned fruits. 164,258; June 5.
Quaker Oats Company, The, Chicago, Ill. Horse feed. 174,103–4; June 5.
Quaker Oats Company, The, Chicago, Ill. Mixed stock feed. 174,101; June 5.
Quaker Oats Company, The, Chicago, Ill. Poultry feed. 174,921; June 5.
Quaker Oats Company, The, Chicago, Ill. Rolled oats. 173,983; June 5.
Quaker Oats Company, The, Chicago, Ill. Rolled oats and wheat food. 174,935; June 5.
Quaker Oats Company, The, Chicago, Ill. Rolled oats and oatmeal. 174,915; June 5.
Quaker Oats Company, The, Chicago, Ill. Stock feed. 174,105; June 5.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 174,916; June 5.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 174,920; June 5.
Quality Specialty Company, Worcester, Mass. Salad dressings, mayonnaise dressings, horse-radish relishes, and mustard relishes. 172,393; June 5.
Quinn Reade Motor Vehicle Fender Co., Quebec, Quebec, Canada, and New York, N. Y. Automobile bumpers and parts therefor. 165,811; June 5.
Reading Textiles. (See Wetherbold, William R.)
Red Star Milling Company, The, Wichita, Kans. Wheat flour. 173,242; June 5.
Reese, Edward, doing business as Standard Crystal Company, Newark, N. J. Detector crystals used in wireless receiving sets. 172,494; June 5.
Rheinauer-Roth Knitting Mills, Inc., New York, N. Y. Knitted piece goods of wool, worsted, fiber silk, etc. 177,692; June 5.
Richmond Cedar Works, Richmond, Va. Filters and refrigerators. 177,694; June 5.
Rigaud, Henri, doing business as Rigaud, Paris, France, and New York, N. Y. Perfume, toilet water, face and talcum powder, etc. 175,025; June 5.
Ritestone Products Corporation, New York, N. Y. Stucco and composition of a cementitious nature for making flooring. 176,628; June 5.
Roessel, Louis & Co. Inc., New York, N. Y. Crêpes and veilings in the piece. 175,523; June 5.
Root, A. I., Co., The, Medina, Ohio. Beehives and comb foundations. 128,133; June 5.
Rostold, Pauline, New York, N. Y. Infants' and children's dresses, rompers, overslips, and petticoats. 172,558; June 5.
Roubaix Mills, Inc., Clinton, Mass., and New York, N. Y. Piece goods made of wool. 179,167; June 5.
Roulston, Thos., Inc., Brooklyn, N. Y. Coffee. 171,039; June 5.
Ruwe, Edgar C., Company, Inc., New York, N. Y. Envelopes and paper. 154,889; June 5.
Salomon & Wiener, Inc., New York, N. Y. Fur. 173,214; June 5.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Underwear of textile fabric. 168,376; June 5.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Underwear of textile fabric. 168,379–80; June 5.
Salwen, D., & Co. Inc., New York, N. Y. Boys' stockings. 174,338; June 5.
Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Hardened and tempered steel bands. 178,873; June 5.
Sandvikstahl G. m. b. H., Ohligs, Germany. Razor blades. 171,243; June 5.
Saxon Perfume Company, The, Cincinnati, Ohio. Toilet waters, shampoos, hair tonics, etc. 170,039; June 5.
Sayre-Level Radio Company, The, Philadelphia, Pa. Radio apparatus and parts thereof. 175,740; June 5.
Schindel & McDaniels, New York, N. Y. Bed sheets, spreads, and pillowcases. 177,521; June 5.
Schult, William J., doing business as W. J. Schult & Company, Elkhart, Ind. Men's and boys' hats, caps, shirts, etc. 154,242; June 5.
Schuithess, Ernest, doing business as Atlas Rubber Company, New York, N. Y. Rubber hose. 170,794; June 5.
Schwarzenbach Huber Company, The, West Hoboken, N. J. Silk piece goods. 174,412; June 5.
Scranton Cap Manufacturing Company, Scranton, Pa. Men's and boys' hats and caps. 175,214; June 5.
Scully, D. B., Syrup Company, Chicago, Ill. Sirup for table purposes. 173,786; June 5.
Seibach, Max, Pforzheim-Dillstein, Germany. Strings for violins and similar musical instruments. 171,287; June 5.
Shapero, Lewis & Co., New York, N. Y. Dresses. 170,551; June 5.
Shane, C. B., Co., Chicago, Ill. Raincoats and topcoats. 175,110; June 5.
Shoemaker, Flora H., doing business as The Frostilla Company, Elmira, N. Y. Lotions for the treatment of the skin. 175,451; June 5.
Shortt, Vivian A., Indianapolis, Ind. Compound for removing carbon and other foreign particles from internal-combustion engines. 156,663; June 5.
Shotwell's Inc., Houston, Tex. Children's clothing—namely, suits, overcoats, mackinaws, etc. 158,403; June 5.
Sifo Products Company, St. Paul, Minn. Shingle strips. 155,836; June 5.
Smith, J. Bond, Washington, D. C. Soaps. 178,142; June 5.
Smith, Phoebe, Detroit, Mich. Lamp shades. 174,980; June 5.
Snappee Co. (See Felnburg, David, Company.)
Societa Italiana di Fonotipia, Milan, Italy. Talking machines and talking-machine records. 170,045; June 5.
South-Eastern Medicine Co. (See Stowe, I. N., M. D.)
Spratt's Patent Limited, London, England. Milk food in powder form for dogs and cats. 153,858; June 5.
Stafford, George A., doing business as G. A. Stafford & Co., New York, N. Y. Woven cotton fabrics in the piece. 135,736; June 5.
Standard Crystal Company. (See Reese, Edward.)
Standard Oil Company, San Francisco, Calif. Harness and sole-leather oils. 167,833-4; June 5.
Stewart, William H., New York, N. Y. Woolen fabrics. 175,629; June 5.
Stowe, I. N., M. D., doing business as South-Eastern Medicine Co., Atlanta, Ga. Female tonic and regulator. 141,241; June 5.
Strachan, James F., Montreal, Quebec, Canada. Bread. 149,938; June 5.
Strachan, James F., Montreal, Quebec, Canada. Bread. 163,006; June 5.
Symns Grocer Co., The, Atchison, Kans. Canned fruits, vegetables, and fish. 173,152; June 5.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Syracuse Glass Company, Syracuse, N. Y. Plate glass, mirror glass, and crystal sheeting. 178,007; June 5.
Tacoma Biscuit & Candy Company, Tacoma, Wash. Candy. 174,600; June 5.
Taylor, Arthema, Jeffersonville, Ind. Hair grower, hair tonic, shampoo, tetter salve, etc. 171,517; June 5.
Tekna, Springfield, Mass. Shampoos, hair tonic, perfume, etc. 175,112; June 5.
Tetralin-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Wood and food preservatives, photographic chemicals, dyestuffs, dyes, etc. 142,042; June 5.
Thompson, John R., Co., Chicago, Ill. Canned vegetables. 175,031; June 5.
Toomey, D. J., Produce Co., Spearfish, S. D., and Newcastle, Wyo. White and graham flour. 174,188; June 5.
Tuckett, H. A., Company, Salt Lake City, Utah. Spices, flavoring essences for food, extracts, etc. 162,075; June 5.
U. S. Manufacturing Corporation, Decatur, Ill. Implements for killing and disabling insects, flies, and the like. 172,453; June 5.
U. S. Manufacturing Corporation, Decatur, Ill. Fly swatters. 175,686–8; June 5.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarn, thread for art needlework, embroidery, crocheting, etc. 177,421; June 5.
United Alfalfa Co., Omaha, Nebr. Stock and poultry feed. 162,783–4; June 5.
United Chemical Companies, Kansas City, Mo. Cleanser, disinfectant, and deodorizer. 174,546; June 5.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 169,428; June 5.
United States Gypsum Company, Chicago, Ill. Calcined gypsum wall plasters. 176,514; June 5.
United States Portland Cement Company, The, Denver, Colo. Portland cement. 178,642; June 5.
United States Refractories Co., San Luis Obispo, Calif. Bricks. 177,254; June 5.
Vail Brothers, doing business as Keystone Perfume Company, Philadelphia, Pa. Bay rum. 168,341; June 5.
Veenstra Produce Co., Climax, Mich. Butter. 170,452; June 5.
Virden Packing Company, South San Francisco, Calif. Meat loaf, sugar-cured bacon, souse, etc. 164,282; June 5.
Voss & Stern, New York, N. Y. Cotton and silk mixture piece goods. 160,313; June 5.
Voss & Stern, New York, N. Y. Cotton and silk mixture piece goods. 160,315; June 5.
Walnott Knitting Company, Utica, N. Y. Infants' wrappers. 171,049; June 5.
Washington Radio Corp., Washington, D. C. Radio sets and parts thereof. 164,617; June 5.
Watt, James A. D., London, England. Safety razors and blades thereof. 166,758; June 5.
Wauregan Company, The, Wauregan, Conn., and Providence, R. I. Cotton fabrics and silk fabrics in the piece. 176,517; June 5.
Weber Manufacturing Co., Tampa, Fla. Ladies' and children's aprons. 155,791; June 5.
Weisberg, Benjamin, Philadelphia, Pa. Neckties. 174,502; June 5.
Weldene Manufacturing Company, Chicago, Ill. Solder. 149,048; June 5.
West Branch Knitting Company, Milton, Pa. Union suits and hosiery. 170,455; June 5.
Wethershold, William R., doing business as Reading Textiles, Reading, Pa. Hosiery for men and women. 173,062; June 5.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 179,288–9; June 5.
Wolf Brothers, Philadelphia, Pa. Window envelopes. 178,942; June 5.
Wolf, Helen E., New York, N. Y. Ladies' and children's dresses. 173,803; June 5.
Wolfson, I. D., Inc., New York, N. Y. Neckties. 171,005; June 5.
Worthley, Abbott, Marlboro, N. J. Fresh potatoes. 171,777; June 5.
Yellow Cab Manufacturing Co., Chicago, Ill. Motor-driven passenger vehicles. 173,988; June 5.
Yellow Cab Manufacturing Co., Chicago, Ill. Motor-driven passenger vehicles. 176,105; June 5.
Zabriskie, George A., New York, N. Y. Wheat flour. 167,155; June 5.
Zagat Inc., New York, N. Y. Laxative. 175,047; June 5.
Zellerbach Paper Co., San Francisco, Calif. Writing paper, tablets, and envelopes. 178,587; June 5.
Zoller, William, Company, Pittsburgh, Pa. Skinned and regular hams, breakfast bacon. 172,924; June 5.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal and coke. Swastika Fuel Company. 169,060–1; June 5; Serial Nos. 171,507–8; published Mar. 27, 1923.
Cottonseed, Selected. W. O. Rowden. 169,120; June 5.
Horticultural and floricultural products. S. Robert. 169,085; June 5; Serial No. 173,245; published Mar. 13, 1923.
Leather. P. Fernandez. 169,064; June 5; Serial No. 171,795; published Mar. 13, 1923.
Leather. Kistler Leather Company. 169,045; June 5; Serial No. 158,931; published Feb. 27, 1923.
Leather. Ohio Leather Company. 169,049; June 5; Serial No. 165,977; published Mar. 13, 1923.
Leather. A. O. Trostel. 169,051; June 5; Serial No. 167,274; published Mar. 27, 1923.
Leather. J. B. Yunker & Sons. 169,050; June 5; Serial No. 167,037; published Mar. 13, 1923.
Leather, Finished. Day-Gormley Leather Co. 169,040; June 5; Serial No. 119,153; published Feb. 27, 1923.
Marble. Bond Marble Company. 169,065; June 5; Serial No. 172,256; published Mar. 13, 1923.
Pyroxylin, nitrocellulose, pyroxylin and artificial ivory. E. I. du Pont de Nemours & Company. 169,039; June 5; Serial No. 170,241; published Mar. 13, 1923.
Silk fiber, Artificial-. A. David. 169,071; June 5; Serial Nos. 170,712–13; published Mar. 13, 1923.
Silk fiber, Artificial-. A. David. 169,073; June 5; Serial No. 170,713; published Mar. 13, 1923.

CLASS 4.

Shaving sticks. J. B. Williams Company. 169,108; June 5.
Shoe dressing, auto top and carriage top dressing. H. Nevins. 169,099; June 5.

CLASS 5.

Glue for mending china, glass, leather, etc. O. Cabana, jr. 23,406; renewed July 25, 1923.

CLASS 6.

Cream, Toilet. Peroxide Chemical Co. 169,116; June 5.
Disinfectants. Newton, Chambers & Company. 23,664; renewed Sept. 26, 1923.
Dyestuffs. N. Erlanger, Blumgart & Co. 169,100; June 5.
Liniment. E. H. Gould. 169,096; June 5.
Liniment. W. A. Whitmore. 169,114; June 5.
Lotion, Skin. W. Horstmann. 169,110; June 5.
Lotion, Skin. F. N. Lewis. 169,090; June 5.
Medicines, Certain named. C. E. Brunning. 23,658; renewed Sept. 26, 1923.
Ointment, Face. C. Petzelt. 22,935; renewed May 2, 1923.
Perfume, toilet water, rouge, face powder, talcum powder, etc. E. Daltroff & Cie. 169,118; June 5.
Perfumes. F. N. Lewis. 169,109; June 5.
Perfumes. Williams, Davis, Brooks & Co. 23,223; renewed June 20, 1923.
Powder cakes, Face-. L. H. Peirson. 169,125; June 5.
Powders, almond lotion, cold cream, etc., Face and talc. Rogers Brothers. 169,046; June 5; Serial No. 161,453; published July 25, 1922.
Preparation for the treatment of headache, neuralgia, colds, grippe, and rheumatism. G. S. Smith. 169,117; June 5.
Remedy for indigestion. Tracy Company. 169,115; June 5.
Remedy for neuralgia. E. B. White. 22,648; renewed Mar. 14, 1923.
Remedies for rheumatism, gout, neuralgia, sciatica, and kindred ailments. Butler & Clarridge. 23,797; renewed Nov. 7, 1923.
Soap, Toilet. Colgate & Co. 23,632; renewed Sept. 19, 1923.
Toilet articles and preparations, Certain named. A. & F. Pears, Ltd. 22,843; renewed Apr. 18, 1923.

CLASS 8.

Tobacco pipes and cases. Wm. Demuth & Co. 169,111; June 5.

CLASS 9.

Gunpowder, Sporting. American Powder Mills. 23,458; renewed Aug. 8, 1923.

CLASS 12.

Lath and expanded-metal reenforcements for concrete structures. Metal. Bostwick Steel Lath Company. 169,095; June 5.
Lath and reenforcements, channel irons, etc., Expanded-metal. Bostwick Steel Lath Company. 169,094; June 5.

CLASS 16.

Leads, Tinted. Wadsworth, Howland & Company. 23,110; renewed May 30, 1923.

CLASS 17.

Tobacco, cigars, cigarettes, and cheroots. D. Ritchie & Co. 23,349; renewed July 11, 1923.

CLASS 19.

Boats. O. W. Watson. 169,113; June 5.
Rails, switches, metal cars, wheels, and trucks. C. W. Hunt Co. 22,959; renewed May 2, 1923.

CLASS 21.

Electric batteries. Burgess Battery Company. 169,089; June 5.
Electric-light traffic signals for use on self-propelled vehicles. E. C. Taylor. 169,055. June 5; Serial No. 169,191; published Feb. 13, 1923.
Electrical apparatus. B. C. Rogers. 169,097; June 5.
Telephonic receivers and head sets. Manhattan Electrical Supply Company. 169,088; June 5; Serial No. 174,253; published Mar. 27, 1923.

CLASS 23.

Coffee classifiers, hullers, polishers, power screens, pulpers, and elevators. Marcus Mason & Co. 22,676; renewed Mar. 21, 1923.
Coffee machinery. Marcus Mason & Co. 22,803; renewed Apr. 11, 1923.
Wrenches, Socket. Walden-Worcester Inc. 169,057; June 5; Serial No. 171,344; published Mar. 6, 1923.

CLASS 24.

Clothes wringers. Bissell Carpet Sweeper Company. 23,054; renewed May 16, 1923.

CLASS 26.

Pictures, motion-picture films, machines for taking and projecting pictures, etc. C. E. Elliott. 169,048; June 5; Serial No. 162,392; published Mar. 13, 1923.
Rules, levels, squares, etc. Stanley Works. 169,067; June 5; Serial No. 172,564; published Mar. 6, 1923.
Rules, levels, squares, marking gauges, and levels. Stanley Works. 169,080; June 5; Serial No. 172,692; published Mar. 6, 1923.
Ticket printing, registering, adding, etc., Machines. Controllograph Co. 169,081; June 5; Serial No. 172,978; published Mar. 6, 1923.

CLASS 28.

Jewelry and watches. Tiffany & Company. 23,573; renewed Sept. 5, 1923.

CLASS 32.

Furniture for homes. C. Niss & Sons, Inc. 169,041; June 5; Serial No. 149,345; published Feb. 27, 1923.

CLASS 35.

Hose, Hydraulic or fire. Eureka Fire Hose Company. 23,618; renewed Sept. 19, 1923.
Hydraulic and fire hose. Eureka Fire Hose Company. 23,616-17; renewed Sept. 19, 1923.

CLASS 36.

Talking-machine records. Federal Record Corporation. 169,107; June 5.

CLASS 37.

Paper and envelopes, Writing. George B. Hurd & Co. 23,708; renewed Oct. 17, 1923.
Papers, Writing and printing. Rocky Mountain Bank Note Company. 169,098; June 5.

CLASS 38.

Advertising forms and instruction sheets, Completely-printed classified. Basil L. Smith System, Inc. 169,054; June 5; Serial No. 169,228; published Mar. 13, 1923.
Cartoons, Series of. Bell Syndicate Inc. 169,069; June 5; Serial No. 172,577; published Feb. 27, 1923.
Comic page, Colored. Press Publishing Company. 169,075; June 5; Serial No. 170,896; published Feb. 27, 1923.
Directories, combined catalogues, etc. Keystone Consolidated Publishing Company. 169,086; June 5; Serial No. 173,288; published Feb. 27, 1923.
Journal, Monthly educational. E. B. Fritz. 169,062; June 5; Serial No. 171,634; published Mar. 13, 1923.
Magazine, Monthly. Edward Lyman Bill, Inc. 169,079; June 5; Serial No. 172,662; published Feb. 27, 1923.
Magazine title, Monthly. T. Randolph. 169,058; June 5; Serial No. 171,386; published Feb. 27, 1923.
Music and music books, Sheet. Fred Fisher, Inc. 169,053; June 5; Serial No. 168,577; published Mar. 13, 1923.
Newspaper-column title. New York Tribune, Inc. 169,066; June 5; Serial No. 172,430; published Mar. 13, 1923.
Newspaper, Daily. Nashville Banner Publishing Company. 169,078; June 5; Serial No. 171,099; published Feb. 27, 1923.
Newspaper, Weekly. World Publication Co. 169,068; June 5; Serial No. 172,571; published Feb. 27, 1923.
Periodical, Monthly. Illinois Women's Athletic Club. 169,056; June 5; Serial No. 171,321; published Feb. 27, 1923.
Periodical section. National Association of Hosiery and Underwear Manufacturers. 169,076; June 5; Serial No. 171,032; published Feb. 27, 1923.
Publication issued at irregular intervals. Gandy Belting Company. 169,082; June 5; Serial No. 173,042; published Feb. 27, 1923.
Publication, Periodical. Jack-O-Lantern Board. 169,077; June 5; Serial No. 171,084; published Mar. 13, 1923.
Publication, Periodical. Norristown Herald, Inc. 169,059; June 5; Serial No. 171,431; published Mar. 13, 1923.
Publication, Periodical. Whitman & Keith Co. 169,074; June 5; Serial No. 170,852; published Feb. 27, 1923.
Publication, Weekly. Textile Publishing Company. 169,070; June 5; Serial No. 172,659; published Feb. 27, 1923.
Publications—namely, catalogues. McCord Manufacturing Company. 169,087; June 5; Serial No. 173,291; published Feb. 27, 1923.
Story, Serial. E. P. Norwood. 169,063; June 5; Serial No. 172,009; published Feb. 27, 1923.

CLASS 39.

Aprons, Women's. Saks & Company. 169,105; June 5.
Corsets. Schilling Corset Co. 23,242; renewed June 27, 1923.
Hosiery. American Wholesale Corporation (Baltimore Bargain House). 169,126; June 5.
Hosiery. Brager of Baltimore. 169,052; June 5; Serial No. 168,198; published Mar. 20, 1923.
Neckties, knitted and woven neckties, cravats, and mufflers. Willow Weaving Co. 169,129; June 5.
Overalls, coats, play suits, auto suits, khaki pants, and shirts. Zion's Co-Operative Mercantile Inst. 169,101; June 5.
Shirts, Dress. American Wholesale Corporation (Baltimore Bargain House). 169,103–4; June 5.
Underwear and hosiery. Munsingwear Corporation. 169,038; June 5; Serial No. 175,508; published Apr. 3, 1923.
Underwear, Ladies' and misses'. Philipsborn's, Inc. 169,092; June 5.
Underwear, Women's and misses'. Barrow Mfg. Co. 169,093; June 5.

CLASS 42.

Cotton goods, Bleached, brown, and printed. Grinnell Willis. 22,903; renewed May 2, 1923.
Cotton goods, Bleached, brown, and printed. Grinnell Willis. 23,022; renewed May 16, 1923.
Silk, artificial-silk, cotton, wool piece goods, etc. Jas. G. Johnson & Co. 169,112; June 5.

CLASS 45.

Beverages to be sold as a soft drink. S. Mariani. 169,106; June 5.
Beverages sold as soft drinks. R. L. Napier. 169,091; June 5.

CLASS 46.

Canned corn. Illinois Canning Co. 23,463; renewed Aug. 8, 1923.
Cheese. E. H. Locatelli. 169,122–4; June 5.
Eggs. C. H. Koster. 169,119; June 5.
Fruits, Fresh citrous. Florida Citrus Exchange. 169,047; June 5; Serial No. 162,105; published Feb. 6, 1923.
Lard, Substitute for. Swift & Company. 22,797; renewed Apr. 11, 1923.
Molasses. Mifflin Chemical Corp. 169,127; June 5.
Potatoes, Dry-cured sweet. H. Beck. 169,128; June 5.
Preparation made from rice in powdered and liquid form. Vita Rice Products Co. 169,043; June 5; Serial No. 155,718; published Dec. 19, 1922.
Preserves, jellies, fruit butters, and mincemeat. Van Lill Preserving Company. 23,254; renewed June 27, 1923.
Rice, Natural brown. C. & B. Rice Mills. 169,042; June 5; Serial No. 155,667; published Dec. 19, 1922.
Sirup, gluten feed oil-cake meal, etc., Corn. Clinton Corn Syrup Refining Company. 169,121; June 5.

CLASS 50.

Bronzes and silver and plated ware. Tiffany & Company. 23,572; renewed Sept. 5, 1923.
Felt. American Hair Felt Co. 169,084; June 5; Serial No. 173,067; published Feb. 27, 1923.
Felt piece goods Tingue, Brown & Co. 169,083; June 5; Serial No. 173,153; published Feb. 27, 1923.
Floor mats and runners, Leather. W. J. Reilly. 169,044; June 5; Serial No. 158,154; published Mar. 13, 1923.
Poultry fountains. H. J. Barker. 169,102; June 5.
Signs, Metal. Little Giant Company. 169,072; June 5; Serial No. 170,394; published Mar. 13, 1923.

ALPHABETICAL LIST OF LABELS.

Butter-Kist. For Pop Corn. Holcomb & Hoke Mfg. Co. 26,049; June 5.
Eatem. For Dates Stuffed with Nuts. H. C. Edwards. 26,043; June 5.
Emerson's Ginger-Mint Julep. For a Nonalcoholic Beverage and Sirups and Concentrates for Use in Said Beverage. Emerson Drug Co. 26,044; June 5.
Every Day. For Hair Nets. West Electric Hair Curler Company. 26,069; June 5.
Forked Rivets. For Rivets. Edwin B. Stimpson Company; 26,064; June 5.
Goodman's Pure Matzoth Meal. For Matzoth Meal. A. Goodman & Sons, Inc. 26,046; June 5.
Hearn Infants Wear. For Infants' Wear. James A. Hearn & Son, Inc. 26,047; June 5.
Kellogg's Corn Flakes. For Cereal Food. Kellogg Company. 26,051; June 5.
Marvel Chick Feed. For Cereal Products. C. O. Sandefur. 26,060; June 5.
Marvel Hog Chops. For Cereal Products. C. O. Sandefur. 26,058; June 5.
Marvel Meal. For Cereal Products. C. O. Sandefur. 26,057; June 5.
Marvel Scratch Feed. For Cereal Products. C. O. Sandefur; 26,059; June 5.
Noble-Heart Egyptian Henna Powder. For a Preparation for Brightening and Glinting the Hair. J. H. Karp. 26,050; June 5.
Nocook Eagle Brand Malthop. For Malt Extract. Modern Pure Food Products Co. 26,052; June 5.
Northern Towels. For Wrapper for Folded Paper Towels. Northern Paper Mills. 26,053; June 5.
One Biscuit Morning, Noon & Night. For Biscuits. Standard Biscuit Company. 26,063; June 5.
Pepkik. For Hamburger-Sausage Sandwiches. J. Hirschman. 26,048; June 5.
PorceVeneer. For Dental Crowns and Bridges. C. Bechtold. 26,041; June 5.
Praz Droy. For Malt Extract. C. F. Vrhel. 26,068; June 5.
Slip-Sheet Package. For Paper Specialties, and Especially on Wax Paper. Bennington Wax Paper Company. 26,042; June 5.
Slovaka Mankin. For Mankins. Freund, Freund & Company. 26,045; June 5.
Swantex Sanitary Napkins. For Packages and Cartons of Sanitary Paper Napkins. Swantex Products Corporation. 26,065; June 5.
Vapo Products. For a Natural Hand Cleanser. Vapo Products Co. 26,067; June 5.
Vapo Products. For Rug and Carpet Cleaning Compound. Vapo Products Co. 26,066; June 5.
Vita Wheat. For Cereal Products. C. O. Sandefur. 26,062; June 5.
Vitacreme Pancake Flour. For Cereal Products. C. O. Sandefur. 26,054; June 5.
Vitems of Corn. For Cereal Products. C. O. Sandefur. 26,055; June 5.
Vitawheat Flour. For Cereal Products. C. O. Sandefur. 26,056; June 5.
Vitems of Wheat. For Cereal Products. C. O. Sandefur. 26,061; June 5.

ALPHABETICAL LIST OF PRINTS.

Father John Between Two Billboards. For Father John's Medicine. Carleton & Hovey Company. 6,745; June 5.
First on the List. For Coffee. Hills Bros. 6,748; June 5.
Fortified For Life. For Father John's Medicine. Carleton & Hovey Company. 6,746; June 5.
Kant-Break. For Ladders. Kant-Break Ladders, Inc. 6,749; June 5.
Now I Ask a Favor of the Ladies. For Palmolive Shampoo. Palmolive Company. 6,751; June 5.
"Onyx" Hosiery. For Hosiery. "Onyx" Hosiery Inc. 6,750; June 5.
Six Feet Foot Comfort. For Foot Powders for Foot Baths. C. G. Boyd. 6,744; June 5.
Swantex. For Sanitary Paper Napkins. Swantex Products Corporation. 6,753; June 5.
The Park & Pollard Co. Lay or Bust Poultry Feeds. For Poultry Feeds. Park & Pollard Company. 6,752; June 5.
Thriftables. For Women's Apparel. Gladding Dry Goods Co. 6,747; June 5.
Whyr E Naml. For Enamel Fixtures. Whyt-E-Naml Specialty Co. 6,754; June 5.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Cottonseed. A. D. Mebane. 173,848; June 5.
Fur. Salmon & Wiener. 173,214; June 5.
Hydrocarbon materials or asphaltum products. R. M. A. Chacon. 175,000. June 5.
Kapok and crude rubber. Netherlands Corporation for Oversea Trade, Inc. 173,522; June 5.
Kapok and crude rubber. Netherlands Corporation for Overseas Trade, Inc. 173,524; June 5.
Leather. W. & J. Martin. 175,148; June 5.
Rubber composition, Hard. Nuloid Corporation. 174,668;

CLASS 4.

Cleanser for all kinds of finished surfaces. J. G. Baker. 175,458; June 5.
Cream, Shaving. P. Amsterdam. 171,720; June 5.
Leather preservatives. North Star Chemical Works, Inc. 155,630; June 5.
Oil, Dressing. Flexo Co. 178,243; June 5.
Oils, Harness and sole-leather. Standard Oil Company. 167,833–4; June 5.
Polishes, Shoe and leather. H. R. Calvert. 177,358; June 5.
Soap and soap products. Bonded Products Corporation. 177,352–3; June 5.
Soap, Common. N. K. Fairbank Company. 177,905; June 5.
Soap, Hand. P. Ciepilla. 175,850; June 5.
Soaps. J. B. Smith. 178,142; June 5.

CLASS 6.

Bay rum. Vail Brothers. 168,341; June 5.
Biotherapeutic and opotherapeutic products. A. B. Adams. 176,004–7; June 5.
Biotherapeutic and opotherapeutic products. A. B. Adams. 176,009–10; June 5.
Carbon remover for internal-combustion engines, Chemical. Eastern Auto Products Co. 167,076; June 5.
Cleanser, disinfectant and deodorizer. United Chemical Companies. 174,546; June 5.
Cream powder, Cold-. Armand Company. 174,994; June 5.
Creams, lotions, manicuring preparations, etc., Face. G. W. Jennings. 175,658; June 5.
Depilatory. J. Brueck. 175,130; June 5.
Disinfectants. Wm. McDonagh & Sons. 175,403; June 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Engines, Compound for removing carbon, etc., from internal-combustion. V. A. Shortt. 156,663; June 5.
Eucalyptus remedies for colds, catarrh, and rheumatism. N. C. Heron. 161,312; June 5.
Foot-bath preparation. Kingsbury Company. 167,965; June 5.
Hair dressing. Mountain State Laboratories. 176,272; June 5.
Hair grower, hair tonic, shampoo, tetter salve, etc. A. Taylor. 171,517. June 5.
Hair tonic. A. L. Kandle. 158,047; June 5.
Hair tonic. L. A. Lee. 175,503; June 5.
Hair tonics. Daggett & Miller Co. 175,007; June 5.
Hypodermic solutions. Parke, Davis & Company. 176,361; June 5.
Insecticide for fowls. S. S. Powell. 174,409; June 5.
Insecticide for roaches, etc. C. L. Jones. 175,084; June 5.
Lamps, Colors for frosting. Chemical Novelty Co. 174,071; June 5.
Laxative. Zagat Inc. 175,047; June 5.
Lip pastes and pencils. F. N. Lewis. 174,842; June 5.
Lotions for treatment of skin. F. H. Shoemaker. 175,451; June 5.
Medicinal agents for treatment of bodily pains. Eddine Manufacturing Co. 175,548; June 5.
Ointment for cuts, bruises, sprains, and eruptions. A. Blanchette. 174,887; June 5.
Pastes and powders and perfumery. Parfumerie Roger & Gallet. 171,866; June 5.
Perfume, toilet water, face and talcum powders, etc. H. Rigaud. 175,025; June 5.
Perfume, toilet water, sachet powder, face powder, etc. Susanne Cocraft Laboratories, Inc. 175,467–8; June 5.
Perfumes, toilet waters, face powders, sachet powders, etc. F. J. de S. Cory. 169,238; June 5.
Perfumery, scents, toilet water, hair waters, etc. F. Libisch. 170,982; June 5.
Powder, Face. Palmolive Company. 175,942; June 5.
Preparation for the treatment of impure blood, Liquid. M. E. Bozeman. 173,871; June 5.
Rouge or powder. F. N. Lewis. 177,856; June 5.
Salve for eczema, etc. Hergy Company. 175,082; June 5.
Salve for the treatment of pneumonia, influenza, croup, asthma, and colds. H. F. Dickson. 174,768; June 5.
Shampoo. A. J. Krank Mfg. Co. 169,858; June 5.
Shampoos, hair tonic, perfume, etc. Tekna. 175,112; June 5.
Toilet waters, shampoos, hair tonics, etc. Saxon Perfume Company. 170,039; June 5.
Tonic and regulator, Female. I. N. Stowe, M. D. 141,241; June 5.
Tonics and preparations. Cole Chemical Company. 175,770; June 5.
Waterproofing composition for wood, brick, etc. Barlith Company. 173,126; June 5.
Wood and food preservatives, photographic chemicals, dyestuffs, etc. Tetralin-Gesellschaft mit beschränkter Haftung. 142,042; June 5.

CLASS 12.

Bricks. United States Refractories Co. 177,254; June 5.
Cement, Portland. United States Portland Cement Company. 178,642; June 5.
Corner beads, metal bases, metal door casings, etc. Knapp Brothers Manufacturing Company. 174,082; June 5.
Fireproof non-heat-conducting materials. Johns-Manville, Incorporated. 177,786; June 5.
Mineral aggregate as ingredients for road surfacing, pavements, floors, etc. Copperstone Products Co. 177,277; June 5.
Plasters, Calcined gypsum wall. United States Gypsum Company. 176,514; June 5.
Refractory cements. E. J. Lavino and Company. 170,029; June 5.
Roofing, slate surfaced and talc surfaced, Asphalt. Mooney, Douglas & Pearson. 172,486; June 5.
Shingle strips. Sisco Products Company. 155,836; June 5.
Stucco and composition of cementitious nature for making flooring. Ritestone Products Corporation. 178,628; June 5.
Wall board, shingles, tiles, etc. Leolith Products Corporation. 162,995; June 5.

CLASS 13.

Steamers, seamless steam kettles, copper-jacketed kettles, etc. Majestic Manufacturing Company. 152,763; June 5.

CLASS 14.

Solder, Weldene Manufacturing Company. 149,048; June 5.

CLASS 19.

Automobile bumpers and parts therefor. Quinn Reade Motor Vehicle Fender Co. 165,821; June 5.
Spring covers and grease boots. David Feinburg Company. 172,643; June 5.
Vehicles, Motor-driven passenger. Yellow Cab Manufacturing Co. 173,988; June 5.
Vehicles, Motor-driven passenger. Yellow Cab Manufacturing Co. 176,105; June 5.

CLASS 21.

Copper bars and strips, Finished commutator. Anaconda Copper Mining Company. 177,063; June 5.
Copper bars and strips, Finished commutator. Anaconda Copper Mining Company. 177,209; June 5.
Crystal detectors and rectifiers. Dubilier Condenser and Radio Corporation. 178,333; June 5.
Dials for use with radio apparatus, Control. Pacent Electric Company. 177,241; June 5.
Electric lights and lighting fixtures for motor cars. Motor Curve Light Company. 177,987; June 5.
Radio apparatus and parts thereof. Sayre-Level Radio Company. 175,740; June 5.
Radio sets and parts thereof. Washington Radio Corporation. 164,617; June 5.
Sad-irons, Electric. Dover Manufacturing Company. 178,236; June 5.
Telephone receivers. E. A. Graham. 176,021; June 5.
Telephone receivers, Electrical. Metro Electrical Co. 177,795; June 5.
Welding machines and electric tools for welding purposes and parts thereof, Electric. A-I Manufacturing Co. 125,101; June 5.
Wireless apparatus. Wm. J. Murdock Co. 167,482; June 5.
Wireless receiving sets, Detector crystals used in. E. Reese. 172,494; June 5.

CLASS 23.

Dish-washing machines. Hicks Corporation. 173,355; June 5.
Locomotive and stationary lubricators, valve and oil cups. Detroit Lubricator Company. 176,955; June 5.
Pumps, including hydraulic rams. Deming Company. 175,923; June 5.
Razor blades. Sandvikstahl G. m. b. H. 171,243; June 5.
Razors and blades thereof, Safety. J. A. D. Watt. 166,758; June 5.
Typewriting machines and parts thereof and mechanical copying machines. Fabrik Stolzenberg Deutsche Bureau-Einrichtungs-Gesellschaft mit beschrankter Haftung. 171,988; June 5.
Windmills, gasoline engines, windmill pumps, siphon pumps, etc. Challenge Company. 174,724; June 5.

CLASS 25.

Locks. American Lock Manufacturing Co. 155,292; June 5.

CLASS 26.

Advertisement-projecting machines, Moving-. American Motorsign Company. 172,971; June 5.
Eyeglasses. Moviglass Company. 144,095; June 5.
Lantern slides. F. A. Apfelbaum. 158,280; June 5.

CLASS 27.

Watchcases. M. M. Mirabeau. 178,765; June 5.
Watches and watchcases. Edelstein Company. 174,895; June 5.
Watches, clocks, alarm clocks, and parts of clocks, Vehicle. Fabriques des Montres Zenith. 171,015; June 5.
Watches, clocks, chronometers, and parts for same. A. Burnstine. 172,632; June 5.

CLASS 28.

Pearls and artificial pearls. J. Flashner. 175,138; June 5.
Rings, pendants, scarfpins, bar pins, etc., Finger. B. F. Brogan. 176,716; June 5.

CLASS 29.

Brushes, Shoe. Parks & Parks, Inc. 173,527; June 5.
Brushes, Shoe. Parks & Parks, Inc. 173,529; June 5.

CLASS 30.

Chinaware. E. W. Bieg. 177,472; June 5.

CLASS 31.

Filters and refrigerators. Richmond Cedar Works. 177,694; June 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 32.

Glass. Bullet Proof & Non-Shatterable Glass Corporation. 176,717–18; June 5.
Glass and crystal sheeting, Plate and mirror. Syracuse Glass Company. 178,007; June 5.

CLASS 34.

Fireplaces. Elson & Church. 177,431; June 5.
Fuel, Apparatus for preparing, conveying, and burning comminuted. Grindle Fuel Equipment Company. 175,551; June 5.
Heating apparatus, Portable. A. Garbarini. 165,750; June 5.
Incinerators. Heimbach Incinerator Co. 175,427; June 5.
Lamp shades. P. Smith. 174,980; June 5.
Stoves, ranges, furnaces, and hot-water heaters. Keeley Stove Company. 178,393; June 5.

CLASS 35.

Gaskets, Sheet-metal and asbestos. Fitzgerald Manufacturing Company. 174,730; June 5.
Hose, Cotton fire. Wm. & Chas. Beck, Inc. 177,950; June 5.
Piston rings. Hooven, Owens, Rentschler Company. 173,356; June 5.
Rubber hose. E. Schulthess. 170,794; June 5.
Steel bands, Hardened and tempered. Sandvikens Jernverks Aktiebolag. 178,873; June 5.
Tires. Federal Rubber Company of Illinois. 178,336; June 5.
Tubes, Inner. B. F. Goodrich Company. 175,720; June 5.

CLASS 36.

Phonographs, Sound-record tablets and recording attachments for. H. A. Miller. 177,797; June 5.
Pianos and phonographs. H. Lehr. 177,494; June 5.
Talking machines and talking-machine records. Societa Italiana di Fonotipia. 170,045; June 5.
Violins and similar musical instruments, Strings for. M. Selbach. 171,287; June 5.

CLASS 37.

Checks, Bank. Bankers Supply Co. 179,391; June 5.
Envelopes and paper. Edgar C. Ruwe Company. 154,889; June 5.
Envelopes, Window. Wolf Brothers. 178,942; June 5.
Paper. J. W. Butler Paper Company. 177,213; June 5.
Paper, Bond and correspondence. H. Reeve Angel & Co. 178,020; June 5.
Paper, tablets, and envelopes, Writing. Zellerbach Paper Co. 178,587; June 5.
Paper, Wrapping. Great Notch Paper Company. 178,502; June 5.
Paper, Wrapping. Huff, Barnes & Opie, Inc. 174,520; June 5.
Paper, Wrapping. Orono Pulp & Paper Comany. 179,549; June 5.
Stereotyping and copying tissue. R. W. Brooks. 176,534; June 5.

CLASS 38.

Almanac. Yearly. Davis-Smith Company. 172,640; June 5.

CLASS 39.

Apparel, Ladies' and misses' wearing. Lehman Brothers, Inc. 170,656; June 5.
Aprons. Weber Manufacturing Co. 155,791; June 5.
Bloomers for babies and children. A. M. Breit. 175,296; June 5.
Caps. Bamberger Reinthal Company. 173,459; June 5.
Caps. Fendelman Brothers Cap and Hat Manufacturing Company. 177,287; June 5.
Caps and aprons. Brown & Bigelow. 160,743; June 5.
Caps, Boys' sport. J. Kaufman & Sons. 175,499; June 5.
Clothing, Children's. Shotwell's Inc. 158,403; June 5.
Coats, Girls'. New York Girl Coat Co. 160,491; June 5.
Coats, skirts, knickerbockers, suits and dresses, Women's. Cohen & Edelman. 170,740; June 5.
Corsets, brassières, and girdles. Birdseye-Somers Co. 177,212; June 5.
Dresses. Shapero, Lewis & Co. 170,551; June 5.
Dresses. H. E. Wolf. 173,803; June 5.
Dresses, rompers, overslips, and petticoats, Infants' and children's. P. Rostoid. 172,558; June 5.
Furnishings and clothing, Women's and misses'. Best & Co. 174,884; June 5.
Hats and caps. Scranton Cap Manufacturing Company. 175,214; June 5.
Hats, caps, shirts, etc., Men's and boys'. W. J. Schult. 154,242; June 5.
Hats, Misses' and children's. S. Millman & Son, Inc. 173,840; June 5.
Heels, soles, shoes, and top lifts. B. F. Chamberlin. 141,855–6; June 5.
Hosiery. Berger Hosiery Company. 167,040; June 5.
Hosiery. Concordia Silk Hosiery Company. 172,521–2; June 5.
Hosiery. A. C. Hulse, jr. 174,080; June 5.
Hosiery. Krueger-Tobin Co. 175,087; June 5.
Hosiery. Moorhead Knitting Company. 174,404; June 5.
Hosiery. United Hosiery Mills Corporation. 169,428; June 5.
Hosiery and underwear, Knitted and textile. I. M. Mirsky & Son. 170,591; June 5.
Hosiery for men and women. W. R. Wetherbold. 173,062; June 5.
Knitted and textile bathing suits. Manchester Knitting Mills, Inc. 174,844; June 5.
Knitted scarfs and bow ties. Franklin Knitting Mills, Inc. 175,238; June 5.
Knitted underwear, sweaters, and bathing suits. American Wholesale Corporation (Baltimore Bargain House). 172,817; June 5.
Neckties. B. Weisberg. 174,502; June 5.
Neckties. I. D. Wolfson, Inc. 171,005; June 5.
Overalls, trousers, and work shirts. Atlantic Overall & Shirt Co. 173,992; June 5.
Raincoats and topcoats. C. B. Shane Co. 175,110; June 5.
Shirts for men, Outer, negligee, and work. Jacob Gerhardt & Company. 172,670; June 5.
Shirts, pants, overalls, and coats for men and children. Johnson & Company. 164,808; June 5.
Shirts, Work. Jay Garment Company. 172,839; June 5.
Shoes. Field & Flint Co. 175,717–8; June 5.
Shoes. A. E. Pitts Shoe Co. 172,435–8; June 5.
Shoes and storm rubbers, Leather. O. Fuhrman, Inc. 170,741; June 5.
Shoes, Leather. Endicott Johnson Corporation. 152,791; June 5.
Stockings, Boys. D. Salwen & Co. 174,338; June 5.
Suits and hosiery, Union. West Branch Knitting Company. 170,455; June 5.
Suits for men and boys, Outer. J. Jamison. 172,335; June 5.
Suits, Men's mohair. American Summer Clo. Co. 170,553; June 5.
Suits, trousers, coats, topcoats, etc. Morris Levy Clothing Co. 172,340; June 5.
Underwear of textile fabric. Salt's Textile Manufacturing Company. 168,376; June 5.
Underwear of textile fabric. Salt's Textile Manufacturing Company. 168,379–80; June 5.
Wrappers, Infants'. Walnott Knitting Company. 171,049; June 5.

CLASS 42.

Cotton and silk mixture piece goods. Voss & Stern. 160,313; June 5.
Cotton and silk mixture piece goods. Voss & Stern. 160,315; June 5.
Cotton and wool piece goods. Laskin-Swatt Co. 170,145; June 5.
Cotton fabrics and silk fabrics in the piece. Wauregan Company. 176,517; June 5.
Cotton fabrics in the piece, Woven. G. A. Stafford. 135,736; June 5.
Cotton piece goods. Hockmeyer Bros. 179,369; June 5.
Cotton piece goods. Kelsey Textile Corporation. 179,275; June 5.
Cotton piece goods. Wilton Manufacturing Company. 179,288–9; June 5.
Cotton, silk, woolen, or jute fabrics. W. H. Harries. 177,780; June 5.
Crêpes and veilings in the piece. Louis Roessel & Co. 175,523; June 5.
Cretonnes in the piece. Graffin & Dolson. 176,462; June 5.
Handkerchiefs, ribbons, nets, etc. Grande Maison De Blanc, Inc. 175,142; June 5.
Knitted piece goods of wool, worsted, etc. Rheinauer-Roth Knitting Mills, Inc. 177,692; June 5.
Serge piece goods. H. Mitchell. 176,492; June 5.
Serges in the piece. Howse, Mead & Sons, Lt. 178,722; June 5.
Sheets, spreads, and pillowcases, Bed. Schindel & McDaniels. 177,521; June 5.
Shirtings and percales, Printed. Everett, Heaney & Co. 166,821; June 5.
Silk and velvet goods in the piece, Hand-decorated. C. E. Garratt. 178,915; June 5.
Silk piece goods. Schwarzenbach Huber Company. 174,412; June 5.
Silk piece goods, and silk and cotton mixture piece goods. Samuel Eiseman & Co. 171,691; June 5.
Wool piece goods. Roubaix Mills, Inc. 179,167; June 5.
Woolen fabrics. W. H. Stewart. 175,629; June 5.
Woolen homespun textile fabrics in the piece. Grove Park Inn, Inc. 172,988; June 5.
Woolen piece goods. Forstmann & Huffmann Company. 178,989; June 5.
Woolen piece goods. Forstmann & Huffmann Company. 178,992–4; June 5.
Woolen piece goods. Keely & Watson. 164,852; June 5.
Woolen piece goods. R. A. Linton. 178,930; June 5.

CLASS 43.

Threads. Manufacturers Supplies Company. 158,632; June 5.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Yarn, thread for art needlework, embroidery, etc. Bernhard Uhlmann Co. 177,421; June 5.
Yarns. Bernhard Uhmann Co. 176,378; June 5.
Yarns. Bernhard Uhmann Co. 176,380; June 5.

CLASS 46.

Apples, Fresh. Otis Orchards Apple Company. 173,361; June 5.
Bread. Corby Baking Company. 167,292; June 5.
Bread. J. F. Strachan. 149,938; June 5.
Bread. J. F. Strachan. 163,006; June 5.
Butter. H. N. Brawner, jr. 161,347; June 5.
Butter. Clyde Creamery Company. 167,290; June 5.
Butter. Great Atlantic and Pacific Tea Company. 174,776; June 5.
Butter. Kirschbraun & Sons, Inc. 161,687; June 5.
Butter. Milk Producers Association of Central California. 172,281; June 5.
Butter. W. Perkins. 174,027; June 5.
Butter. Veenstra Produce Co. 170,452; June 5.
Butter, olives, and oleomargarine. Arthur E. Dorr & Co. 80,177; June 5.
Candy. Mer-Sha Candies. 160,621; June 5.
Candy. Ohio Confection Company. 162,763; June 5.
Candy. Tacoma Biscuit & Candy Company. 174,600; June 5.
Canned evaporated milk. C. A. Baumann. 155,661; June 5.
Canned fish, fruit, and vegetables. A. T. Kittle. 173,772; June 5.
Canned fish, fruit, and vegetables. North American Mercantile Co. 174,909; June 5.
Canned fruits. Producers Canning and Packing Company. 164,258; June 5.
Canned fruits, vegetables, and fish. Symns Grocer Co. 173,152; June 5.
Canned peas. Central Wisconsin Canneries. 173,807; June 5.
Canned vegetables. John R. Thompson Co. 175,031; June 5.
Cheese. Meuerhofer Söhne & Co. 173,936; June 5.
Chick mash. American Milling Company. 172,926; June 5.
Cocoa pudding and cornstarch. Manhattan Baking Powder Co. 174,316; June 5.
Coffee. Thos. Roulston, Inc. 171,039; June 5.
Coffee, tea, bread, pastry flour, marshmallow creme, and salad dressing. Huey & Mathews, Inc. 170,019; June 5.
Confectionery. DeKlyn Candy Company. 156,520; June 5.
Cookies, Fancy. Pacific Coast Biscuit Company. 174,854; June 5.
Corn meal. C. D. Calverley. 174,064; June 5.
Egg mash. American Milling Company. 172,925; June 5.
Feed and rations, Dairy. Kasco Mills, Inc. 158,872; June 5.
Feed, Dairy. Albert Dickinson Company. 175,074; June 5.
Feed for poultry, Scratch. Lawrenceburg Roller Mills Co. 174,314; June 5.
Feed, Horse, Quaker Oats Company. 174,103–4; June 5.
Feed, Mixed stock. Quaker Oats Company. 174,101; June 5.
Feed, Poultry. Black Bros. Flour Mills. 172,792; June 5.
Feed, Poultry. Albert Dickinson Company. 175,073; June 5.
Feed, Poultry. Quaker Oats Company. 174,921; June 5.
Feed, Stock. Quaker Oats Company. 174,105; June 5.
Feed, Stock and poultry. United Alfalfa Co. 162,783–4; June 5.
Fish cakes, codfish cakes, clams, etc. Burnham & Morrill Company. 173,399; June 5.
Flavoring compound, Artificial-vanilla. C. A. Bell. 169,148; June 5.
Flour, Salt-rising. Ballard & Ballard Company. 159,078; June 5.
Flour, Self-rising. Lawrenceburg Roller Mills Co. 170,771; June 5.
Flour, Wheat. Abilene Flour Mills Co. 171,780; June 5.
Flour, Wheat. American Dealers Trading Corporation. 173,990; June 5.
Flour, Wheat. Ballard and Ballard Company. 156,434; June 5.
Flour, Wheat. Black Bros. Flour Mills. 167,703; June 5.
Flour, Wheat. J. W. Denio Milling Company. 164,024; June 5.
Flour, Wheat. Dunlop Milling Co. 162,808; June 5.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 175,241; June 5.
Flour, Wheat. Holland O'Neal Milling Co. 175,102; June 5.
Flour, Wheat. Midland Flour Milling Co. 175,095; June 5.
Flour, Wheat. Nebraska Mill & Elevator Co. 175,100; June 5.
Flour, Wheat. Northfield Flour Mills Company. 174,630; June 5.
Flour, Wheat. Pillsbury Flour Mills Company. 174,334; June 5.
Flour, Wheat. Quaker Oats Company. 174,916; June 5.
Flour, Wheat. Quaker Oats Company. 174,920; June 5.
Flour, Wheat. Red Star Milling Company. 173,242; June 5.
Flour, Wheat. George A. Zabriskie. 167,155; June 5.
Flour, White and Graham. D. J. Toomey Produce Co. 174,188; June 5.
Flours. L. A. E. Frenkel, Inc. 174,433; June 5.
Food, Cereal breakfast. Battle Creek Food Company. 174,722; June 5.
Food for dogs and cats, Milk. Spratt's Patent Limited. 153,858; June 5.
Foods and feed for poultry, live stock, and cattle. I. I. Irwin. 170,821; June 5.
Fruit or berry juice to make jelly. H. L. Hulburt. 173,648; June 5.
Fruits and vegetables, canned fruits and vegetables, fresh grapes, melons, etc., Dried. da Roza-Doherty Company. 174,428; June 5.
Fruits, Dried. C. C. Hall Inc. 173,421; June 5.
Grapes and cantaloupes, Fresh. Ben H. Arkelian & Co. 164,482; June 5.
Gum, Chewing. Goudey Gum Company. 156,001; June 5.
Hams, breakfast bacon. William Zoller Company. 172,924; June 5.
Lard. Boyd, Lunham & Company. 174,607; June 5.
Meat loaf, sugar-cured bacon, souse, etc. Virden Packing Company. 164,282; June 5.
Meat pies, dumplings, etc. W. H. Brooks. 167,597; June 5.
Milk and cream, butter, milk, and cottage cheese, Raw. Kelly-Lester Milk Company. 168,717; June 5.
Oats and oatmeal, Rolled. Quaker Oats Company. 174,915; June 5.
Oats and wheat food, Rolled. Quaker Oats Company. 174,335; June 5.
Oats, Rolled. Quaker Oats Company. 173,983; June 5.
Oil, Olive. Corrado & Marranzini. 164,493; June 5.
Oysters. McNasby Oyster Co. 155,269; June 5.
Oysters and clams, cooked lobsters, scallops, etc. J. G. Patton. 101,176; June 5.
Potatoes, Fresh. A. Worthley. 171,777; June 5.
Potatoes, Irish. Nix Produce Company. 165,300; June 5.
Poultry and eggs, Dressed. C. J. Loyd. 175,255; June 5.
Salad dressing, mayonnaise, tartar sauce, etc. Dainty Maid Company. 150,138; June 5.
Salad dressings, mayonnaise dressings, horse-radish relishes, and mustard relishes. Quality Specialty Company. 172,393; June 5.
Sirup, Table. D. B. Scully Syrup Company. 173,786; June 5.
Spices, birdseed, seasoning herbs, etc. Archibald & Lewis Company. 165,475; June 5.
Spices, flavoring essences for food, extracts, etc. H. A. Tuckett Company. 162,075; June 5.
Sugar, rice, coffee, etc. Netherlands Corporation For Overseas Trade, Inc. 173,525; June 5.
Sugar, rice, pepper, etc. Netherlands Corporation For Overseas Trade, Inc. 173,523; June 5.
Vegetables, Fresh. S. Perlmon. 170,597; June 5.

CLASS 50.

Beehives and comb foundations. A. I. Root Co. 128,133; June 5.
Fly swatters. U. S. Manufacturing Corporation. 175,686–8; June 5.
Implements for killing and disabling insects, flies, and the like. U. S. Manufacturing Corporation. 172,453; June 5.
Leather and rubber surface cloth. Chemitex Products Company. 174,233; June 5.
Letters and figures of resilient material, Interchangeable cut-to-shape. Davenport-Taylor Mfg. Company. 175,471; June 5.
Rug and carpet holders and materials for same. L. C. Chase & Company. 174,289; June 5.
Tags. Fogarty Manufacturing Company. 175,783; June 5.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acme Fishing Tool Company. (See Nutter, Orda D., assignor.)
Acme Staple Company. (See Michener, Elwood H., assignor.)
Adam, Matthew, Philadelphia, Pa. Sifting device. 1,457,292; June 5.
Adams, Arthur J., assignor to The Fulton Company, Bay City, Mich. Manufacture of spokes. 1,457,808; June 5.
Adams, Harold A., Bakersfield, Calif. Motor meter. 1,457,481; June 5.
Adams, James R., Philadelphia, Pa. Casting ingots and seal for ingot molds. 1,457,763; June 5.
Adams, Victor, Chicago, Ill. Head for brooms and brushes. 1,457,414; June 5.
Adsit, George, assignor to Benjamin Eastwood Company, Paterson, N. J. Quilling machine. 1,457,294; June 5.
Adsit, George, assignor to Benjamin Eastwood Company, Paterson, N. J. Warping machine. 1,457,293; June 5.
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Balancing circuits. 1,457,336; June 5.
Aiken, Robert H., Winthrop Harbor, Ill. Erection of concrete buildings. 1,457,684; June 5.
Aktiengesellschaft Brown Boveri & Cie. (See Gaudenzi, Arthur, assignor.)
Albany Perforated Wrapping Paper Company. (See Crandell, Willis S., assignor.)
Alberts, Jacob L., New York, N. Y. Corset construction. 1,457,482; June 5.
Allbright-Nell Co., The. (See Harris, John P., assignor.)
Allen, George W., Hyde Park, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Muffler. 1,457,809; June 5.
Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
Alsager, Arne O., Willow Creek Township, Lee County, Ill. Comb cleaner. 1,458,018; June 5.
Altmeier, Joseph, Evansville, Ind. Violin. 1,457,415; June 5.
Alvord, Earl B. (See Howard, H., and Alvord.)
Alwart, Paul J., Chicago, Ill. Screening apparatus. 1,457,810; June 5.
American Bank Note Company. (See Woodhull, Daniel E., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfang E., assignor.)
American Can Company. (See Cullen, W. J., and Rutkowski, assignors.)
American Can Company. (See Leighton, George A., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Barrows, L. D., and Darrow, assignors.)
Anderson, Carl A., Boston, Mass. Boomerang thrower. 1,457,764; June 5.
Aoki, Tokujiro, Tokyo-fu, Japan. Life preserver. 1,458,019; June 5.
Arian, Edward D., assignor of one-third to C. D. Thomas and one-third to F. J. Rich, San Francisco, Calif.; F. J. Rich, administrator of said C. P. Thomas, deceased. Desiccator. 1,457,483; June 5.
Atkinson, Frederick C., Indianapolis, Ind. Purifying acid liquor. 1,457,484; June 5.
Atkinson, George C., Georgetown, Tex. Resilient wheel. 1,458,020; June 5.
Atlantic Refining Company. (See Nichols, Howard M., assignor.)
Atlas Axle Company. (See Whittingham, Richard A., assignor.)
Automatic Machinery Company. (See Hallock, G. H., Frederick, and Purcell, assignors.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Avera, Arch U., Florence, Ala. Tractor. 1,457,647; June 5.
Avey, George S., Cincinnati, Ohio. Automobile top stay strap. 1,457,685; June 5.
Ayres, Webb W., assignor of three-eighths to R. W. White and two-eighths to A. A. Merry, Rochester, N. Y. Method and apparatus for illumination. 1,457,485; June 5.
Babbitt, Charles E., South Portland, assignor to Hamlin Rocking Grate Co., Portland, Me. Rocking and dumping grate. 1,457,416; June 5.
Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Apparatus for processing pumpkin and like material. 1,457,417; June 5.
Bado, Santino, Mount Vernon, N. Y. Pipe protector. 1,457,295; June 5.
Badois, Louis, Paris, France. Fountain pen. 1,457,765; June 5.
Bager, Svante R. W. M. (See Ferris, W., and Bager.)
Bailey, Walter C., Long Beach, assignor to Regan Forge & Engineering Company, Los Angeles, Calif. Casing and tubing hook. 1,457,648; June 5.
Baits, Stuart G. (See Fekete, S. I., and Baits.)
Baker, J. M., et al. (See Bloodgood, James H., assignor.)
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Displacement element for liquid containers. 1,457,811; June 5.
Baker, Thomas W. (See Magee, Frederick W., assignor.)
Baldwin, Frederic E., Philadelphia, Pa. Closure for fruit and other wide-mouthed jars. 1,457,418; June 5.
Bamford, Frank L., Detroit, Mich. Toasting machine. 1,458,021; June 5.
Banin, Frank, Detroit, Mich. Ironing board. 1,457,661; June 5.
Barnes, Charles R., Rochester, N. Y. Zone fare system. 1,457,488; June 5.
Barrett Company, The. (See Miller, S. P., and Hess.)
Barrett, Harry A. (See Reddig, C. H., and Barrett.)
Barrow, A. C., & Company. (See Barrow, Alfred C., assignor.)
Barrow, Alfred C., assignor to A. C. Barrow & Company, Lynchburg, Va. Patch pocket. 1,457,812; June 5.
Barrow, Alfred C., assignor to A. C. Barrow & Company, Lynchburg, Va. Pocket. 1,457,813; June 5.
Barrows, Earle M., Minneapolis, Minn. Shotgun shell. 1,457,337; June 5.
Barrows, Leon D., and L. H. Darrow, New York, N. Y., assignors to American Telephone and Telegraph Company. Selective connection of trunk lines. 1,457,338; June 5.
Barthel, Oliver E., Detroit, Mich. Motor suspension. 1,457,486; June 5.
Bartholomew, Roy J. (See Conts, E. O., and Bartholomew.)
Bartley, Joseph S., Denver, Colo. Grinding mill. 1,457,487; June 5.
Barton, Theodore V., New York, N. Y. Combined foot brake and accelerator-control mechanism for automobiles. 1,457,489; June 5.
Barwell, John W., J. Ward, N. Nelson, J. Hingher, W. E. Booth, and W. L. Blows, assignors to Blatchford Calf Meal Company, Waukegan, Ill. Feeder for mills. 1,457,490; June 5.
Bassler, Edwin M., Milwaukee, Wis. Kiln and burner therefor. 1,457,339; June 5.
Bastheim, Gustave, Pittsburgh, Pa. Pin, brooch, bracelet, finger ring, or article of similar nature. Des. 62,439; June 5.
Batcheller, Hugh W., assignor of one-half to H. F. Farrell, Worcester, Mass. Antifriction bearing for bicycle crank shafts, etc. 1,457,954; June 5.
Bawden, Fred M. (See Cheetham, Arthur, assignor.)
Beadle, Francis P. H., East Boldre, England. Variable-camber aerofoils for aircraft. 1,457,955; June 5.
Beaman, Vane. (See Strawmyer, W. A., and Beaman.)
Beans, John F., Canton, assignor to The Beans Spring Company, Massillon, Ohio. Spring forming and quenching machine. 1,457,340; June 5.
Beans Spring Company, The. (See Beans, John F., assignor.)
Beaumont, R. H., Company. (See Hale, William E., assignor.)
Beaver Company, The. (See Schlitzer, Frank C., assignor.)
Bechtel, William F., Lehigh, Iowa. Mail-bag catcher. 1,458,022; June 5.
Becker, Howard I., Schenectady, N. Y., assignor to General Electric Company. Amplifier. 1,457,814; June 5.
Bednarz, Edward, Everett, Wash. Signal for vehicles. 1,458,023; June 5.

Beebe, Daniel S., Oak Park, Ill., assignor to The Vitrolite Company, Parkersburg, W. Va. Tool for cutting glass while in a plastic state. 1,457,491; June 5.
Beers, Edward C., Rochester, N. Y. Range. 1,457,686; June 5.
Behan, Thomas W., Binghamton, N. Y. Clothes wringer. 1,457,419; June 5.
Belvoir, Thomas B. (See Kelly, C., and Belvoir.)
Benczaiski, Wojciech, Roquiam, Wash. Laundry hanger. 1,457,956; June 5.
Bender, Frederick W., Cape Charles, Va. Potato-bug and aphis exterminator. 1,457,420; June 5.
Benson, Wade E., Baton Rouge, La. Coal box. 1,458,024; June 5.
Berger, Gustav W., and C. Jedele, Newark, N. J. Shield for side cars. 1,457,491; June 5.
Berman, Joseph, Baltimore, Md. Bridle for brooms and similar devices. 1,457,815; June 5.
Bethlehem Shipbuilding Corporation. (See Neitzel, Frank E., assignor.)
Bethlehem Steel Company. (See Coffey, John J., assignor.)
Betts Sole Protector Company. (See Betts, William H., assignor.)
Betts, William H., assignor to Betts Sole Protector Company, St. Louis, Mo. Combined punching and forming press. 1,457,816; June 5.
Bialy, Pete. (See Marx, L., and Bialy.)
Biehl, Bernard, sr. (See Harding, T., and Biehl.)
Biele, Carl F., Montclair, N. J. Adjustable jamb unit. 1,458,025; June 5.
Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company. Means and method for starting airplane engines and the like. 1,457,687; June 5.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Binns, William B., assignor of one-half to J. D. Mander, Bingley, York, England. Textile spinning and twisting process. 1,457,817; June 5.
Birkigt, Marc, Bois-Colombes, France. Machine provided with valves. 1,457,967; June 5.
Bischof, Ulrich, assignor to Gebr. Staubli, Horgen, Switzerland. Laying-on apparatus for book-fastening machines. 1,458,026; June 5.
Black, Stanley D. (See Mathews, F., and Black.)
Blackwelder, Bert R., Laporte, Ind. Tire fabric. 1,457,892; June 5.
Blatchford Calf Meal Company. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows, assignors.)
Blessen, Frederick C., Creston, Nebr. Harvester. 1,457,341; June 5.
Bloodgood, James H., assignor to J. M. Baker and H. L. Dollve, Tampa, Fla. Universal woodworking tool. 1,457,492; June 5.
Blows, Wilbur L. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
Blunt, James G., Schenectady, N. Y. Hub liner for railway vehicles. 1,457,894; June 5.
Blunt, James G., Schenectady, N. Y. Truck-box cellar. 1,457,893; June 5.
Body, Paul E., Walkerville, Ontario, Canada. Container cap. 1,458,027; June 5.
Bohan, William J., St. Paul, Minn. Car construction. 1,457,296; June 5.
Bohnhardt, Charles F. H., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Process of and apparatus for renovating coated metal sheets. 1,457,688; June 5.
Bolton, Jack R. (See Williams, J. D., Bolton, and Strune.)
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,457,421; June 5.
Bonslakes, Michael, San Francisco, Calif. Aeroplane construction. 1,457,871; June 5.
Booker, Charles A., Monier, Ill. Hand rest. 1,457,958; June 5.
Booth, Walter E. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
Borges, Alfredo E., Fortaleza, Ceara, Brazil. Power brake for railway cars. 1,457,766; June 5.
Borowsky, Peter. (See Majka, S., and Borowsky.)
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Knitted glove and making the same. 1,458,102; June 5.
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Sinker or web-holder cam mechanism for knitting machines. 1,458,103; June 5.
Bouchard, Emile E., Burlington, Vt. Curtain for automobiles. 1,457,649; June 5.
Boulia, Victor, Orwell, Vt. Milk-bottle carrier. 1,457,342; June 5.
Bowen, David R., assignor to Farrel Foundry & Machine Company, Ansonia, Conn. Rubber mixer or like machine. 1,457,343; June 5.
Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Crossover for overhead-trolley lines. 1,457,689; June 5.
Boynton, Vern K. (See Perry, R. S., Webster, and Boynton.)
Bradner, Donald B., Edgewood, Md. Making phosgene. 1,457,493; June 5.
Braucher, William B., Chicago, Ill. Ventilator. 1,457,959; June 5.
Brewer, Henry, Wilmette, Ill., assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring and indicating apparatus. Re15,617; June 5.
Brine, Percival F., Boston, Mass., assignor to Oil Wells Renewal Company, Chicago, Ill. Electrical heater for oil wells. 1,457,690; June 5.
Britten, Frank S., South English, Iowa. Disk scraper and fender. 1,457,960; June 5.
Brix, Harold, assignor to Sharp & Smith, Chicago, Ill. Detachable-blade knife. 1,458,104; June 5.
Brockman, Joseph W., assignor to The Cincinnati Last Company, Cincinnati, Ohio. Shoe last. 1,457,872; June 5.
Brophy, John J., Philadelphia, Pa. Machine for treating textile materials or products. 1,457,297; June 5.
Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. 1,458,121; June 5.
Brown, Charles W., Cleveland, Ohio. Signal. 1,457,818; June 5.
Brown, Derrell E., Mondamin, Iowa. Illuminating device for burial caskets. 1,457,650; June 5.
Brown, Sol, assignor to Dunbar Molasses & Syrup Co., New Orleans, La. Sirup can. 1,457,614; June 5.
Brown, William A., Philadelphia, Pa. Counterbalancing and oscillating device for electric heaters and lamps. 1,457,874; June 5.
Brown, William A., Philadelphia, Pa. Heat-focusing device for combined electric lamps, heaters, and blowers. 1,457,873; June 5.
Browning, John M., Ogden, Utah. Firearm. 1,457,961; June 5.
Brunka, Oscar, Fort Wayne, Ind. Rug reenforcement. 1,457,921; June 5.
Brunswick-Balke-Collender Company. (See Hine, Cicero.)
Bryant, James E. (See Murray, Edward W., assignor.)
Buckler, Leon T., Philadelphia, assignor to G. B. Clay, Elkins Park, Pa. Drain-valve device for hydrants. 1,457,422; June 5.
Buckley, Mert T., Wichita, Kans. Ventilator. 1,457,298; June 5.
Bucyrus Company. (See Ferris, W., and Bager, assignors.)
Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Trial frame. 1,457,494; June 5.
Buggie, Horace H., assignor to Dura Company, Toledo, Ohio. Runway for glass. 1,457,495; June 5.
Bull, George E., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Wire-hoop machine. 1,457,691; June 5.
Bullock, Charles A. H., London, England. Typesetting appliance. 1,457,423; June 5.
Bunch, Walter R., La Verne, assignor of one-half to A. G. Hamilton, Fontana, Calif. Brush-cutting machine. 1,457,424; June 5.
Bunker, Ward S., Waukesha, Wis. Shaving brush. 1,457,615; June 5.
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,440; June 5.
Burnay, Manoel De Ortigao. (See Roquette, José C. F., assignor.)
Burnham, Fred T., Newton Center, Mass. Glass-washing machine. 1,458,028; June 5.
Busby, Junius E., Hazard, Ky. Track and curve gauge. 1,457,425; June 5.
Busby, Robert S., Jacksonville, Fla. Tilting and locking device for steering wheels. 1,457,722; June 5.
Bush, Burnett, Kennedy, N. Y., assignor of one-half to A. C. Keppler, South Bend, Ind. Direction indicator. 1,457,723; June 5.
Butler, Henry E., Schenectady, N. Y. Packing receptacle. 1,457,496; June 5.
Butterfield, Daniel J., Los Angeles, Calif. Coin-controlled apparatus for dispensing cups. 1,457,616; June 5.
Byrne Manufacturing Company, The. (See Runser, Fredrick J., assignor.)
Caldwell, William T., Glendale, Calif. Housing for flexible service tubes and cables. 1,458,115; June 5.
Came, Samuel, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Locking device for the take-up mechanism of looms. 1,457,651; June 5.
Cameron, Charles R., Los Angeles, Calif. Indicating means. 1,457,426; June 5.
Campanella, Joseph, New York, N. Y. Sanitary lather-making device. 1,457,895; June 5.
Campbell, Jesse T., Hornbreak, Tenn. Pick sack. 1,457,344; June 5.
Caps, Myrtle B. (See Cross, Walter M., assignor.)
Caraballo, Abelardo, Habana, Cuba. Machine for making cigar bunches. 1,457,724; June 5.
Cardy, Fred E., Chicago, Ill. Eraser. 1,457,497; June 5.
Carey, William A., Toledo, Ohio. Mold for plastic flower boxes or the like. 1,457,767; June 5.
Cargill, James H., Jersey City, N. J. Safety pin. 1,458,029; June 5.
Carlson, C. G., Ice Cream Company, The. (See Fox, Willis H., assignor.)
Carlson, John, La Tuque, Quebec, Canada. Adjustable caster. 1,457,617; June 5.

Carr, Edward G., Chicago, Ill. Concrete-road machine. 1,457,299; June 5.
Carstens, Hanns, Leverkusen, and C. Hansen, Wisedorf, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Disinfecting, insecticidal, and fungicidal composition. 1,457,652; June 5.
Carter, Samuel C., Los Angeles, Calif. Tractor. 1,457,692; June 5.
Cassidy, Daniel P., et al. (See Cochran, William R., assignor.)
Casterline, Stanley M. (See Kenney, C. L., and Casterline.)
Castle, Oliver H., Indianapolis, Ind. Condensing pump. 1,457,427; June 5.
Caulfield, Edward W., Taylor, Tex. Slack take-up for valve mechanism. 1,457,819; June 5.
Central Brass and Fixture Company, The. (See Crabill, P. P., and Turner, assignors.)
Cerrato, Luis, Florida, Argentina. Wheel bearing. 1,457,653; June 5.
Chain Belt Company. (See Shafer, Samuel, jr., assignor.)
Chambers, Arthur B., Memphis, Tenn. Door or gate latch. 1,457,962; June 5.
Chandler and Price Company, The. (See Tyler, Ralph S., assignor.)
Chaney, Lee F., assignor to The Chaney Manufacturing Company, Springfield, Ohio. Gas jet. 1,458,030; June 5.
Chaney Manufacturing Company, The. (See Chaney, Lee F., assignor.)
Cheetham, Arthur, assignor of one-half to F. M. Bawden, Toronto, Ontario, Canada. Sheet-cutting machine. 1,458,122; June 5.
Chemische Fabrik Griesheim-Elektron. (See Wiss, Ernst, assignor.)
Chester, Frank R., Asbury Park, N. J. Advertising device. 1,458,050; June 5.
Chiles, George S., assignor of one-half to J. W. Dalman, Chicago, Ill. Car truck. 1,457,345; June 5.
Cincinnati Last Company. (See Brockman, Joseph W., assignor.)
Clark, Bolden et al. (See Leece, Charles E., assignor.)
Clark, Macmullen & Riley, Inc. (See Riley, Champlain L., assignor.)
Clay, George B. (See Buckler, Leon T., assignor.)
Cleveland, Ernest E., Springfield, Mass. Tree-holding stand. 1,457,820; June 5.
Clifford, Harlon A., assignor to E. D. Clifford, Greenfield, Mass. Nail puller. 1,457,346; June 5.
Clifford, Emma D. (See Clifford, Harlon A., assignor.)
Coates, Noel H., Oakland, Calif. Stylographic fountain pen. 1,457,875; June 5.
Coats, Edward O., and R. J. Bartholomew, Leeton; said Coats assignor to J. L. Stacy and E. F. Hausam, Sedalia, Mo. Refacing tool. 1,457,725; June 5.
Coats, Henry B., Veedersburg, Ind. Vacuum tank. 1,457,922; June 5.
Cochran, William R., assignor of four-fifths to D. P. Cassidy, J. C. Cross, T. W. Parker, and S. W. Sorensen, Detroit, Mich. Stabilizer for motor-vehicle spring suspensions. 1,457,498; June 5.
Coffey, John J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Drill shank. 1,457,499; June 5.
Coggins, Shirley M., San Francisco, Calif. Folding table. 1,457,618; June 5.
Cohen, Samuel, Brooklyn, N. Y. Audio-frequency coupling transformer. 1,457,619; June 5.
Cohen, Wolfe, Revere, Mass. Coin-controlled dispensing apparatus. 1,457,300; June 5.
Collins, Frank, New York, N. Y. Telephone cabinet or housing. 1,457,347; June 5.
Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
Comstock, Daniel F., Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic film. 1,457,500; June 5.
Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)
Connell, William J., Huntington, W. Va. Check lock. 1,457,348; June 5.
Cook, Clara L., assignor of one-half to E. T. Nolen, El Monte, Calif. Calendar. 1,457,821; June 5.
Cook, Joel R., assignor to Domestic Electric Company, Cleveland, Ohio. Motor-brush holder. 1,457,896; June 5.
Cooper, James C., and J. J. Sigrist, assignors of one-fifth to F. E. Shaffer, Altoona, Pa. Sectional-tire-carrying rim. 1,458,031; June 5.
Coppée, Maurice, Mont-sur-Marchienne, Belgium. Method and apparatus for measuring electric resistances and the like. 1,457,923; June 5.
Cornelis, Jean, Liege, Belgium. Cigar-making machine. 1,457,876; June 5.
Cornell, Joseph G., Brooklyn, N. Y. Elevator. 1,452,032; June 5.
Cornellier, Arthur, Dracut, Mass. Barber's comb. 1,457,726; June 5.
Corona Typewriter Company. (See de Clamecy, Philippe, assignor.)
Costmeter Company. (See Quigley, John T., assignor.)
Cox, Charles C. (See Loofs, W. J., and Cox.)
Cox, Paul F., Chicago, Ill. Impression throw off and on device for traveling-cylinder presses. 1,457,501; June 5.
Crabill, Pearl P., and J. Turner, assignors to The Central Brass and Fixture Company, Springfield, Ohio. Automobile bumper. 1,457,502; June 5.
Crandell, Willis S., Elsmere, N. Y. Paper-making machine. 1,457,349; June 5.
Crandell, Willis S., Elsmere, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Machine for and process of producing rolls of paper for towels, toilet paper, etc. 1,457,822; June 5.
Cribben & Sexton Company. (See Wilkinson, George D., assignor.)
Crocker, William W., Junction City, Kans. Clothes stick. 1,457,727; June 5.
Crompton & Knowles Loom Works. (See Came, Samuel, assignor.)
Crosby, Edwin L. (See Marshick, O. J., and Crosby.)
Cross, John G., et al. (See Cochran, William R., assignor.)
Cross, Walter M., Kansas City, Mo., assignor to M. B. Caps, Wilmette, Ill. Method of and apparatus for the purification of water. 1,457,503; June 5.
Crown Cork and Seal Company of Baltimore City, The. (See Bohnhardt, Charles F. H., assignor.)
Cullen, William J., and W. L. Rutkowski, St. Louis, Mo., assignors to American Can Company, New York, N. Y. Soldering machine. 1,457,504; June 5.
Cullison, Harvey L., Baltimore, Md. Air brake. 1,458,033; June 5.
Cummings, Edmund O. (See Norris, J. F., and Cummings.)
Curran, Edward T., Detroit, Mich. Liquid-cooling radiator for motor vehicles. 1,457,768; June 5.
Curran, Thomas, Streator, Ill. Water-controlling device. 1,457,505; June 5.
Currie, James G., Philadelphia, Pa. Lace. Des. 62,441; June 5.
Currie, James G., Philadelphia, Pa. Lace. Des. 62,442; June 5.
D. X. Instrument Company. (See Hipple, Solomon R., assignor.)
Dalla Bona, Giuseppe, Como, Italy. Automatic apparatus for signaling railway trains in motion. 1,457,728; June 5.
Dalman, John W. (See Chiles, George S., assignor.)
Damiano, Fedora, Cambridge, Mass. Ornamental and supporting article. 1,457,350; June 5.
Dammel, Immanuel and T. G., Geraldine, Mont. Wheeled weeder. 1,457,823; June 5.
Dammel, Thos. G. (See Dammel, Immanuel and T. G.)
Daniel, Henry J., Sutherlin, Va. Cooking utensil. 1,457,654; June 5.
Daniel, Henry J., Sutherlin, Va. Water carrier. 1,457,655; June 5.
Dannreuther, Lewis C., Oklahoma, Okla. Stove. 1,457,506; June 5.
Darrow, Edwin A. (See Koester, Charles E., jr., assignor.)
Darrow, Leo H. (See Barrows, L. D., and Darrow.)
Davenport, Clifton E., et al. (See Smith, Luther E., assignor.)
Davin, Michael J., Danville, Ill. Mold. 1,458,034; June 5.
Davis, Carleton E. (See Spence, Thomas, assignor.)
Davis, David L., assignor to Davis-Pope Company, Incorporated, South Norwalk, Conn. Producing polo felt. 1,457,769; June 5.
Davis-Pope Company. (See Davis, David L., assignor.)
Davison, Maggie T., Nashville, Tenn., and C. W. Thompson, Chicago, Ill. Automobile light. 1,458,035; June 5.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Turret mounting for heavy guns. 1,457,924; June 5.
De Clamecy, Philippe, Charlestown, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. 1,457,730; June 5.
Dee, William E., Company. (See Furmidge, Samuel, assignor.)
Delage, Gustave, Paris, assignor to Societe Anonyme des Etablissements Nieuport, Issy-les-Moulineaux, Seine, France. Method permitting to regulate and adjust the dynamic characteristics of surfaces moving through a fluid. 1,457,507; June 5.
Dellman, Alexander, Mount Clemens, Mich. Fountain soldering tool. 1,457,508; June 5.
De Nise, George R., Rochester, Minn. Tooth holder. 1,457,824; June 5.
Denny, Benjamin, and M. Kaufman, New York, N. Y. Kneeling stool. 1,457,567; June 5.
De Ortigao Burnay, Manoel. (See Roquette, José C. F., assignor.)
De Ram, Georges H. E., Paris, France. Suspension of automobiles and other vehicles. 1,457,884; June 5.
Derrer, Rudolf, assignor to Maschinenfabrik Rüti formerly Caspar Honegger, Ruti, Zurich, Switzerland. Device for releasably locking the loose reeds of power looms. 1,458,036; June 5.
Deucher, Eugene G., assignor to The Universal Crane Company, Cleveland, Ohio. Vehicle outrigger. 1,457,897; June 5.
Devan, Paul J., Windber, Pa. Screw jack. 1,457,825; June 5.

Dickey, Laurence P., Mountain Lakes, N. J. Vanity case. 1,457,925; June 5.
Dickey, Orville H., Williamstown, Mo. Wrench. 1,458,037; June 5.
Dinsmore, Walter F., East Orange, N. J., assignor to R. L. Polk & Company, Inc., New York, N. Y. Card holder. 1,457,885; June 5.
Ditta "Rema." (See Mannowski, Walter, assignor.)
Dodge, Ryland T., Chester, Va. Mailing tube. 1,457,770; June 5.
Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,457,498; June 5.
Doherty Research Company. (See Loebell, Henry O., assignor.)
Dolive, H. L., et al. (See Bloodgood, James H., assignor.)
Dollinger, Lewis L., Rochester, N. Y. Air filter. 1,457,351; June 5.
Domestic Electric Company. (See Cook, Joel R., assignor.)
Doose, George, and C. Gartner, Pasadena, Calif. Traffic signal for motor vehicles. 1,458,116; June 5.
Dorn, Charles A., Canton, Ohio. Pulverizing machine. 1,457,693; June 5.
Dorr Company, The. (See Piper, William E., assignor.)
Dorschel, John L., Kitchener, Ontario, Canada. Cue tip. 1,457,729; June 5.
Doty, Harry, Caldwell, N. J. Record appliance. 1,457,964; June 5.
Doty, Leman E., Elyria, Ohio. Recovery of ammonia. 1,457,877; June 5.
Douglas, William H., New York, N. Y. Power-transmission device. 1,457,604; June 5.
Dowd, Bernard J., and A. Utz, Hartford, Conn., assignors to Royal Typewriter Company Inc., New York, N. Y. Typewriting machine. 1,457,620; June 5.
Drake, Guy, Whitman, Nebr. Broom head. 1,458,095; June 5.
Dreher, Charles H., Buffalo, N. Y. Apparatus for conveying and spacing articles. 1,457,352; June 5.
Dreher, Charles H., Buffalo, N. Y. Apparatus for spacing articles. 1,457,353; June 5.
Duggan, Thomas R., assignor to The Permutit Company, New York, N. Y. Method of and apparatus for softening water. Re15,618; June 5.
Dukas, James K., Edwardsville, Pa. Fishing net. 1,457,886; June 5.
Du Mais, Leo J., assignor to Garbell Typewriter Corporation, Chicago, Ill. Typewriting machine. 1,457,965; June 5.
Dunbar Molasses & Syrup Co. (See Brown, Sol, assignor.)
Dunkelberger, Milton S., Dayton, Ohio. Casting lure. 1,457,926; June 5.
Dunn, Edmund L., et al. (See Dunn, Louis, assignor.)
Dunn, Louis, St. Paul, Minn., assignor of two-thirds to E. L. Dunn, Millbourne, Pa., and one-third to A. V. Fabian, St. Paul, Minn. Train-stopping apparatus. 1,457,899; June 5.
Dunstan, Albert E., and F. B. Thole, Sanbury-on-Thames, England. Desulphurizing petroleum and petroleum distillates. 1,457,650; June 5.
Dupuis, Noel, assignor of one-half to C. M. King, Tacoma, Wash. Occupant-propelled vehicle. 1,457,731; June 5.
Dura Company. (See Buggie, Horace H., assignor.)
Duratex Corporation. (See Wilson, John A., assignor.)
Durgin, William B., Company. (See Hayford, Harry N., assignor.)
Eardley, George S., San Jose, Calif. Smoker's appliance. 1,458,038; June 5.
Eastman Kodak Company. (See Underwood, Ernest E., assignor.)
Eastman, Watson, assignor to Western Cooperage Company, Portland, Oreg. Wood-splitting machine. 1,457,966; June 5.
Eastwood, Benjamin Company. (See Adsit, George, assignor.)
Ebel, Frederick E., New York, N. Y. Hydraulic motor. 1,457,927; June 5.
Edwards, Oliver P., Leipsic, Ohio. Shock-absorbing apparatus for vehicles. 1,457,509; June 5.
Egerton, Henry C., Ridgewood, N. J. Making shoes, boots, etc. 1,457,826; June 5.
Eiermann, William, Brooklyn, N. Y. Boring spade. 1,458,039; June 5.
Eitutis, John A., Chicago, Ill. Repeating device for phonographs. 1,457,428; June 5.
Eley, William, Suffolk, Va. Twine holding and dispensing device. 1,457,621; June 5.
Eliopulos, Christ, Marion, Ind. Cream whipper. 1,457,622; June 5.
Ellwood, William, Hempstead, assignor to Nicholas Power Company, Inc., New York, N. Y. Automatic fire shutter for moving-picture machines. 1,457,510; June 5.
Enterprise Foundry Company. (See Lougheed, Victor, assignor.)
Erb, Irwin H., Lake Mills, assignor of three-fourths to C. C. Hobson, Ryan, and O. O. Hobson, Vinton, Iowa. Head-topping ensilage harvester. 1,457,827; June 5.
Erb, Irwin H., Lake Mills, assignor of three-fourths to C. C. Hobson, Ryan, and O. O. Hobson, Vinton, Iowa. Juice-extracting ensilage harvester. 1,457,828; June 5.
Erhardt, Ludwig, assignor of one-half to W. Siedersleben & Co., Bernburg, Germany. Knife control in machines for harvesting sugar beets. 1,457,829; June 5.
Erhardt, Oscar P., West Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Motor handle and switch. 1,457,967; June 5.
Escher, Charles, Jersey City, N. J. Tire. 1,458,040; June 5.
Esnault-Pelterie, Robert, Paris, France. Continuous-action synchronizer. 1,457,968; June 5.
Essex Motors. (See Fekete, S. I., and Baits, assignors.)
Evans, Edwin R., assignor of one-half to B. F. Everitt, Detroit, Mich. Tool holder. 1,457,511; June 5.
Everitt, B. F. (See Evans, Edwin R., assignor.)
Fabian, A. V., et al. (See Dunn, Louis, assignor.)
Fahsbender, Frank, Paterson, N. J. Lifting device. 1,457,657; June 5.
Fair Foundry Co. (See Holloway, Frank P., assignor.)
Fairbairn, John J., Roosevelt, N. Y. Stanchion for supporting barrier rails. 1,457,900; June 5.
Fairchild, Alson F., Elkhorn, Wis. Wind instrument. 1,457,623; June 5.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Carstens, H., and Hansen, assignors.)
Farrel Foundry & Machine Company. (See Bowen, David R., assignor.)
Farrell, H. F. (See Batcheller, Hugh W., assignor.)
Favary, Ethelbert, New York, N. Y. Resilient tire. 1,457,512; June 5.
Fay, Joseph W., Milwaukee, Wis., assignor to Fred Pabst Company. Electric welding machine. 1,457,513; June 5.
Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Internal-combustion engine. 1,457,695; June 5.
Fergusson, Alan R., Buffalo, N. Y. Toy railway. 1,457,771; June 5.
Ferris, Philomene, Westwood, Calif. Nursing-bottle cover. 1,458,041; June 5.
Ferris, Walter, Milwaukee, and S. R. W. M. Bager, South Milwaukee, assignors to Bucyrus Company Milwaukee, Wis. Rope-thrusting shovel. 1,457,301; June 5.
Fischer, Albert T. (See Horr, John V., assignor.)
Fisher, Alfred E., Oshawa, Ontario, Canada. Gramophone repeating device. 1,457,354; June 5.
Fisher, William F., Minneapolis, Minn. Bifocal eyeglass lens. 1,457,355; June 5.
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fiske, Bradley A., Washington, D. C. Reading machine. 1,457,429; June 5.
Fletcher, John B., assignor of one-eighth to J. D. Fletcher, one-fourth to L. Lewis, one sixteenth to L. M. Fletcher, and one-sixteenth to M. L. Fletcher, Louisville, Ky. Sirup pump. 1,458,042; June 5.
Fletcher, John D., et al. (See Fletcher, John B., assignor.)
Fletcher, L. M., et al. (See Fletcher, John B., assignor.)
Fletcher, Minnie L., et al. (See Fletcher, John B., assignor.)
Flewelling, Willard M., Healdsburg, Calif. Street indicator. 1,457,732; June 5.
Flower, John W., assignor, by mesne assignments, to Michigan Valve Foundry and Engineering Company, Detroit, Mich. Filtration chamber. 1,457,514; June 5.
Foans, Andrew B., New York, N. Y. Race game. 1,457,901; June 5.
Foliansbee, Frank S., Grant Town, W. Va. Method of and apparatus for loading material. 1,458,043; June 5.
Forbes, Alexander, Hampstead, London, England. Tennis and other racket press and case and the like. 1,457,356; June 5.
Force, William A., jr., Kew Gardens, assignor to Wm. A. Force & Company, Inc., New York, N. Y. Hand-stamp frame. 1,457,697; June 5.
Force, Wm. A., & Company. (See Force, William A., jr., assignor.)
Force, Wm. A., & Company. (See Spielman, Charles, assignor.)
Ford, Ethelbert T., assignor to Fordartic Refrigeration Company, Los Angeles, Calif. Compressor. 1,457,696; June 5.
Ford, Silas M., St. Paul, Minn. Machine for making lath boards. 1,457,664; June 5.
Ford, Silas M., St. Paul, Minn. Machine for making shingles. 1,457,662; June 5.
Ford, Silas M., St. Paul, Minn. Shingle-making machine. 1,457,663; June 5.
Ford, William W., Avinger, Tex. Peanut harvester. 1,458,044; June 5.
Fordartic Refrigeration Company. (See Ford, Ethelbert T., assignor.)
Forsyth, George H., Harvey, Ill. Forming and tempering disk wheels. 1,457,772; June 5.
Foster Machine Company. (See Kylin, Oskar, assignor.)
Foster, Theodore W., and Brother Company. (See Foster, Theodore W., assignor.)
Foster, Theodore W., Providence, R. I., assignor to Theodore W. Foster and Brother Company. Vanity case. Des. 62,443; June 5.
Four Wheel Hydraulic Brake Company. See Lougheed, Malcolm, assignor.)
Fox, Willis H., assignor of one-half to The C. G. Carlson Ice Cream Company, Denver, Colo. Ice-cream-cutting machine. 1,457,624; June 5.

Fraser, William M., Perth Amboy, N. J. Calculator. 1,458,045; June 5.
Frazier, Homer G., La Fayette, Ind. Wagon-dump-body latch. 1,457,357; June 5.
Frederick, George F. (See Hallock, G. H., Frederick, and Purcell.)
Frederickson, Clayton E., Chicago, Ill. Turning steering wheel and lock. 1,457,733; June 5.
Frey, Raymond I. (See Shimer, E. F., and Frey.)
Freydberg, Aaron, Mount Vernon, N. Y. Fabric binding strip. 1,457,625; June 5.
Frisch, Paul, Chicago, Ill. Stair construction. 1,457,515; June 5.
Fritz, Louis, Memphis, Tenn. Woodworking machinery. 1,457,626; June 5.
Frommel, Albert E., Groton, S. Dak. Grain grader and cleaner. 1,457,734; June 5.
Frumveller, Joseph, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Water heater. 1,457,773; June 5.
Fulghum, Charles C., Richmond, Ind. Boiler magazine front. 1,457,516; June 5.
Fulghum, Charles C., Richmond, Ind. Boiler grate. 1,457,517; June 5.
Fulton Company, The. (See Adams, Arthur J., assignor.)
Fulton, Richards C., White Plains, N. Y. Automatically-operated road map for motor vehicles. 1,457,358; June 5.
Furmidge, Samuel, Chicago, Ill., assignor, by mesne assignments, to William E. Dee Company. Supplementary vehicle spring. 1,457,518; June 5.
Fussner, George, Menominee, Mich., assignor to Signal Electric Mfg. Co. Electromagnetic apparatus. 1,457,519; June 5.
Futch, Victor H. (See Powell, A. R., and Futch.)
Gadd, William O., San Antonio, Tex. Clothespin. 1,457,969; June 5.
Gagné, Augustin, Central Falls, R. I. Web-holder cam for knitting machines. 1,457,903; June 5.
Gail, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bedspring fabric. 1,457,430; June 5.
Gammon, Tillman H., Los Angeles, Calif. Spring tire. 1,458,117; June 5.
Garbell, Max., assignor to Garbell Typewriter Corporation, Chicago, Ill. Typewriting machine. 1,457,970; June 5.
Garbell, Max., assignor to Garbell Typewriter Corporation, Chicago, Ill. Typewriting machine. 1,457,971; June 5.
Garbell Typewriter Corporation. (See Du Mais, Leo J., assignor.)
Garbell Typewriter Corporation. (See Garbell, Max, assignor.)
Gardeen, Carl J., St. Paul, Minn. Current rectifier. 1,457,902; June 5.
Garden, Alexander T., Augusta, Kans. Oil regulator. 1,457,520; June 5.
Garlatti, Daniele, Iroquois Falls, Ontario, Canada. Combination instrument. 1,458,046; June 5.
Garner, F. H. (See Wilson, John D., assignor.)
Garrett, Emerson E., Wallace, W. Va. Chain. 1,458,096; June 5.
Gartner, Carl. (See Doose, G., and Gartner.)
Garvey, James D., Chicago, Ill. Mop wringer. 1,457,568; June 5.
Gashyesva, Harold. Tuba City, Ariz. Necktie and handkerchief holder. Des. 62,444; June 5.
Gasser, Joseph, Trenton, N. J., assignor to New Jersey Twin Hoist Company. Dump wagon. 1,458,047; June 5.
Gaudenzi, Arthur, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. System of connections for multiphase choking coils. 1,457,359; June 5.
Gebr. Stanbli. (See Bischof, Ulrich, assignor.)
General Electric Company. (See Becker, Howard I., assignor.)
General Electric Company. (See Bower, George W., assignor.)
General Electric Company. (See Norris, Marvin L., assignor.)
General Electric Company. (See Twiss, Paul E., assignor.)
General Electric Company. (See Valentine, Irving R., assignor.)
General Industrial X-Ray Co. (See Guilliaume, William, assignor.)
General Motors Corporation. (See Short, Charles R., assignor.)
Gerhardt, Reginald R., Sparrows Point, Md. Automatic work feeder. 1,457,830; June 5.
Gerstein, Frank. (See Gerstein, Harry and F.)
Gerstein, Harry, Arverne, and F. Gerstein, New York, N. Y. Shoulder strap. 1,457,904; June 5.
Gilbert, A. C., Company, The. (See Erhardt, Oscar P., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Floor chime. 1,457,360; June 5.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Container for toy sets and the like. 1,457,361; June 5.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy. 1,457,972; June 5.
Gile, Daniel W., Madison, S. Dak. Grain-shocking attachment for harvesters. 1,457,627; June 5.
Gill, Walter A., Riverside, N. J. Hair curler. 1,457,698; June 5.
Goens, James E., Roanoke, Va. Mold for making metal castings. 1,457,362; June 5.
Goodyear Tire & Rubber Company, The. (See Shively, Walter E., assignor.)
Graff, George, New York, N. Y., assignor to Graff, Washbourne & Dunn. Support for lamps and the like. Des. 62,446; June 5.
Graff, Washbourne & Dunn. (See Graff, George, assignor.)
Graham, Archibald P., Elkhorn, Wis. Mold for forming saxophone mouthpieces. 1,458,048; June 5.
Graham, Jessie F., Standard City, Calif. Butt hook. 1,457,887; June 5.
Grasselli Chemical Company. (See Howard, H., and Alvord, assignors.)
Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Seat spring. 1,457,658; June 5.
Grieshaber, Eugene, assignor of one-half to M. Scheckenbach, Ridgewood, N. Y. Swing. 1,458,049; June 5.
Griffin, William L., Dallas, N. C. Automatic grade-crossing block. 1,458,051; June 5.
Guilliaume, William, assignor to General Industrial X-Ray Co., Milwaukee, Wis. Cabinet. Des. 62,445; June 5.
Grindle, Aubrey J., Chicago, Ill., assignor to Grindle Fuel Equipment Company. Powdered-coal apparatus. 1,457,521; June 5.
Grindle, Aubrey J., Chicago, Ill., assignor to Grindle Fuel Equipment Company. Powdered-coal apparatus. 1,457,522; June 5.
Grindle Fuel Equipment Company. (See Grindle, Aubrey J., assignor.)
Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-testing mechanism for coin-controlled machines. 1,457,699; June 5.
Gruss, Walter C., Pittsburgh, Pa. Hair curler. 1,458,052; June 5.
Gnetl, John I., Buffalo, N. Y. Shaft bearing. 1,457,831; June 5.
Gusdorf, Harold M., Indianapolis, Ind. Transmission V belt. 1,457,569; June 5.
Guthard, Edgar C., Chicago, Ill. Tool handle and the like. 1,457,570; June 5.
Guthridge, Richard, Norristown, Pa. Receptacle and agitator therefor. 1,457,431; June 5.
Guthrie, Charles B., Washington, D. C. Consolidated tariff index. 1,457,363; June 5.
Guyot, Arthur F. (See Guyot, Gaston A. and A. F.)
Guyot, Gaston A. and A. F., Attleboro, Mass. Watch-bracelet hook. 1,457,432; June 5.
Hackworth, Lindall G., Ruble, Mo. Demountable rim for vehicle wheels. 1,457,888; June 5.
Haerting, Karl R., Berlin, Germany. Stone and like working machine. 1,458,097; June 5.
Hager, William R., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Dry-room tumbler. 1,457,905; June 5.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Brake and clutch operating mechanism for hoists. 1,457,973; June 5.
Hall, James T., Albany, Ga. Cotton opener. 1,457,832; June 5.
Hallock, George H., G. F. Frederick, and B. H. Purcell, assignors to Automatic Machinery Company, Terre Haute, Ind. Conveyer system. 1,457,364; June 5.
Halpern, Meyer, New York, N. Y. Toothbrush holder. Des. 62,447; June 5.
Hamelin, Antoine. (See Hamelin, Joseph, assignor.)
Hamelin, Joseph, assignor, by mesne assignments, of one-half to A. Hamelin, Bienville, Quebec, Canada. Spring wheel. 1,457,433; June 5.
Hamilton, Arthur G. (See Bunch, Walter R., assignor.)
Hamilton, David, Greensburg, Pa. Wall facing. 1,457,523; June 5.
Hamlin Rocking Grate Co. (See Babbitt, Charles E., assignor.)
Hammond, John H., jr., Gloucester, Mass. Mechanism for sinking torpedoes. 1,457,700; June 5.
Hammond, Joseph D., Jackson, Mich. Centrifugal casting machine. 1,457,834; June 5.
Hancock, William E., Tulsa, Okla. Gas burner. 1,457,833; June 5.
Handly, William G., St. Albans, Vt. Patch. 1,458,053; June 5.
Hanemann, Max., Munster, Germany. Making wood everlastingly flexible. 1,457,974; June 5.
Hansen, Christian. (See Carstens, H., and Hansen.)
Hansen, Edward W., Minden, Nebr. Pitman. 1,457,434; June 5.
Hapgood, Clarence H., Toledo, Ohio, assignor of one-half to F. V. Waltz, St. Louis, Mo. Flush-tank valve mechanism. 1,457,571; June 5.

Harder, Frederick E., Detroit, Mich. Rail joint. 1,457,302; June 5.
Harding, Thomas, and B. Biehl, sr., Newark, N. J., assignors to J. L. Sommer Manufacturing Co. Can-opening wrench. 1,457,774; June 5.
Harnett, James H., Nutley, N. J. Spindle. 1,457,572; June 5.
Harpham, Julius C., Lincoln, Nebr. Harness rosette. 1,457,659; June 5.
Harris, John P., assignor to The Allbright-Nell Co., Chicago, Ill. Process for producing catalytic materials for hydrogenating unsaturated oils and fats to harden them. 1,457,835; June 5.
Harris, Walter K., Lockhart, Tex. Equalized platform automatic scale. 1,457,628; June 5.
Hartvig, John A., Oakland, Calif. Waver for hair. 1,457,836; June 5.
Haus, John G., Weirton, W. Va. Gas water heater. 1,457,365; June 5.
Hausam, Edwin F., et al. (See Coats, E. O., and Bartholomew, assignors.)
Hayes Manufacturing Company. (See Richard, Joseph O., assignor.)
Hayford, Harry N., assignor to William B. Durgin Company, Concord, N. H. Work-controlling attachment for lathes. 1,457,837; June 5.
Heberling, John, assignor to Hickok Mfg. Company, Inc., Rochester, N. Y. Belt buckle. 1,457,573; June 5.
Heisler, Frederick W., Schenectady, N. Y. Crane door-operating mechanism. 1,457,907; June 5.
Heiser, Joseph B., Williamsport, Pa. Valve-protecting tire carrier. 1,457,735; June 5.
Hemphill, Alvin, Joliet, Ill. Mold for corncrib staves. 1,458,054; June 5.
Hemphill Company. (See Bosworth, George P., assignor.)
Henderson, Carl, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Separating mechanism for sheet material. 1,457,775; June 5.
Henderson, Carl, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-separating mechanism. 1,457,776; June 5.
Henry, Charles P., Fairfax, Va. Time slot meter. 1,457,888; June 5.
Hess, John R. (See Miller, S. P., and Hess.)
Hesselman, Knut J. E., Saltsjo-Storangen, Sweden. Fuel-injecting device for internal-combustion engines. 1,457,701; June 5.
Heurtley, Ernest S., London, England. Method or means for amplifying or otherwise indicating small mechanical effects. 1,458,098; June 5.
Hey, Edmund A., La Grange, J. G. Le Pere and L. K. Webber, assignors to The Williams Sealing Corporation, Decatur, Ill. Semiautomatic bottle-capping machine. 1,458,123; June 5.
Heymann, Hans. (See Lawaczeck, F., and Heymann.)
Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
Hickok Mfg. Company. (See Heberling, John, assignor.)
Higgins, Joseph F., Brooklyn, N. Y. Heel-attaching device. 1,457,435; June 5.
Higgins, Thomas, Davenport, Iowa. Checkrow-corn-planter attachment. 1,458,055; June 5.
Higgins, Thomas, Glenshaw, Pa. Structural shape. 1,457,303; June 5.
Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
Hill, Jonas N., Deep Run, N. C. Screen. 1,458,056; June 5.
Hill, N. N., Brass Co., The. (See Kidney, Josiah R., assignor.)
Hinds, Sherwood, Richmond Heights, assignor to St. Louis Pump & Equipment Company, St. Louis, Mo. Valve. 1,457,374; June 5.
Hine, Cicero, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Game table. Des. 62,448; June 5.
Hine, Cicero, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Game table. Des. 62,449; June 5.
Hine, Cicero, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Game table. Des. 62,450; June 5.
Hingher, Joseph. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
Hinrichs, Henry C., New Orleans, La. Drawing stand. 1,457,889; June 5.
Hipple, Solomon B., Williamsport, assignor to D. X. Instrument Company, Harrisburg, Pa. Rheostat. 1,458,105; June 5.
Hobson, Claude C., et al. (See Erb, Irwin H., assignor.)
Hobson, Ota O., et al. (See Erb, Irwin H., assignor.)
Hodgson, Harriette E., New York, N. Y. Fire rescue bag. 1,457,304; June 5.
Hoff, Sigurd J., New York, N. Y. Keyhole guard. 1,457,702; June 5.
Hoffman, John C., et al. (See Smith, Luther E., assignor.)
Hoffman, Joseph, Philadelphia, Pa. Steering stabilizing device. 1,457,975; June 5.
Hollister, Willoughby F., Cowen, W. Va. Fishing rod. 1,458,057; June 5.
Holloway, Frank P., assignor to Fair Foundry Co., Knoxville, Tenn. Stove. 1,457,660; June 5.
Hopedale Manufacturing Company. (See Spencer, Moses, assignor.)
Hopfield, Lewis D., Natoma, Calif. Land-leveling device. 1,457,878; June 5.
Hoppes, Henry, Wilsonville, Nebr. Stock-feed mixer and dispenser. 1,458,058; June 5.
Horne, James. (See Dawson, A. T., and Horne.)
Horner, Albert V., Toronto, Ontario, Canada. Window construction. 1,457,366; June 5.
Horovitz, Morris R., Brooklyn, assignor to Standard Metal Spinning Co., New York, N. Y. Stamping for lighting fixtures. Des. 62,451; June 5.
Horr, John V., assignor to A. T. Fischer, Cleveland, Ohio. Display carton. 1,457,305; June 5.
Howard, Henry, and E. B. Alvord, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Making metal sulphides. 1,457,436; June 5.
Howe, Ernest G., trustee. (See Stevens, H. R., and Rockwell, assignors.)
Hubbard, William A., Hoquiam, Wash. Car-replacing device. 1,458,059; June 5.
Hubers, Henry W., Davenport, Iowa. Automatic control device for washing machines. 1,457,367; June 5.
Hughes, James F., Bridgeport, Conn. Automobile signal. 1,457,703; June 5.
Hunter, George D., Bloomington, Ind. Boiler attachment. 1,457,839; June 5.
Huntting, Samuel E., San Francisco, Calif. Pump. 1,457,368; June 5.
Hurl, Charles W., Nanty Glo, assignor to Miners Supply and Equipment Company, Johnstown, Pa. Mine alarm instrument. 1,458,060; June 5.
Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
Hutt, Albert E., Detroit, Mich. Bus. 1,457,840; June 5.
Hydraulic Steel Company, The. (See Kranz, Harry W., assignor.)
Industrial Research Corporation. (See Green, Charles F., assignor.)
Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
International Motor Company. (See Leipert, August H., assignor.)
Isbill's, William L., Elizabeth, N. J. Friction wheel. 1,457,524; June 5.
Isbills, William L., Elizabeth, N. J. Friction wheel. 1,457,525; June 5.
Jackson, Elmer G., Elmhurst, Ill. Rerailer. 1,458,061; June 5.
Jackson, Ernest W., Sausalito, Calif. Speed-change gear. 1,457,526; June 5.
Jansen, Anton F., Douglas, Ill. Dumping attachment for farm wagons. 1,457,575; June 5.
Jarvin, John H. (See Mueller, Augusto E., assignor.)
Jarvis, Herbert C., Toronto, Ontario, Canada. Manufacture of wall paper. 1,457,369; June 5.
Jedele, Christian. (See Berger, G. W., and Jedele.)
Jefferies, Richard H., Richmond, Va. Molding substance for dental and other uses and making same. 1,457,370; June 5.
Jenonis, Peter, Chicago, Ill. Clothesline clamp. 1,457,576; June 5.
Joerger, George B., Chicago, Ill. Cigar or cigarette holder. 1,457,577; June 5.
Johnsen, Wilhelm, New Brighton, assignor to J. Petterson, Brooklyn, N. Y. Cutting shears. 1,457,527; June 5.
Johnson, Alfred A., Chico, Calif. Tool for pulling gears, etc., from their shafts. 1,457,841; June 5.
Johnson, Charles W. (See Tooley, R. P., and Johnson.)
Johnson, Lewis A. W., Los Angeles, Calif. Headlight. 1,457,630; June 5.
Johnson, Oscar C., Pittsburgh, Pa. Lock nut. 1,457,736; June 5.
Johnston, John A., Springfield, Mass. Spreader for road material. 1,457,928; June 5.
Jones, Arthur M. (See Taber, Hubert C., assignor.)
Jones, Earle M., assignor to O. B. McClintock Company, Minneapolis, Minn. Clock. Des. 62,452; June 5.
Jordan, Harry I., Auburn, Me. Golf-club shaft. 1,457,528; June 5.
Kane, Walter, Sarnia, Ontario, Canada. Car-door fastener. 1,457,737; June 5.
Kanet, Nathan. (See Mitzenmacher, Sam, assignor.)
Kashmere, John C., and J. K. Roberts, assignors to W. C. Williams, Wilkes-Barre, Pa. Toy vehicle. 1,457,842; June 5.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,453; June 5.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,454; June 5.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,455; June 5.
Kaufman, Matthew. (See Denny, B., and Kaufman.)
Keith, Frederick W., Belfast, Me., assignor to S. H. Reynolds Sons Co., Boston, Mass. Dentist's articulating paper. 1,458,062; June 5.
Keller, Paul E. (See Petty, L. L. and Keller.)
Kelley, George H., Lowell, Mass. Tassel. 1,457,738; June 5.
Kellogg, Charles B., Chicago, Ill. Display card. 1,457,306; June 5.
Kellogg Manufacturing Co. (See Miller, Charles R., assignor.)
Kelly, Anthony L., et al. (See Williams, Frank E., assignor.)

Kelly, Caroline, and T. B. Belvoir, Warden, Isle of Sheppey, England. Building block. 1,457,437; June 5.
Kelly, Frank S., et al. (See Williams, Frank E., assignor.)
Kelsall, George A., Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Permeameter furnace. 1,457,438; June 5.
Kennedy, Bert, and L. Saiger, Gloversville, N. Y. Fly shooter. 1,457,674; June 5.
Kennedy, James E., Washington, D. C. Gas burner. 1,457,371; June 5.
Kennedy, James E., Washington, D. C. Waterheating grid. 1,457,372; June 5.
Kenney, Carl L., Dormont, and S. M. Casterline, Crafton, Pa.; said Kenney assignor to said Casterline. Metal crosstie. 1,457,704; June 5.
Keppler, A. C. (See Bush, Burnett, assignor.)
Kerns, Orlando C., Akron, Ohio. Vise. 1,457,307; June 5.
Kershenstein, John, Johnstown, Pa. Railway frog. 1,457,632; June 5.
Kessel, Fritz, New York, N. Y. Fishhook. 1,457,373; June 5.
Kessler, Louis, Chicago, Ill. Filler tube. 1,457,976; June 5.
Kidd, Cameron A., Ansted, W. Va. Chimney. 1,457,739; June 5.
Kidney, Josiah R., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Bicycle bell. 1,457,705; June 5.
Killam, Walter S., Detroit, Mich. Priming device. 1,457,308; June 5.
Kimmel, George P. (See Stivers, William D., assignor.)
King, Charles M. (See Dupuis, Noel, assignor.)
Kirgan, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Jet augmenter or ejector. 1,457,777; June 5.
Kitsee, Isidor, Philadelphia, Pa. Producing artificial silk. 1,457,977; June 5.
Knight, William W., Birmingham, Ala. Signal system for vehicles. 1,458,099; June 5.
Knopf, Ernest R., Greenwich, Conn. Laundry-bag support. 1,458,100; June 5.
Koch, Bernard J., Pittsburgh, Pa. Printing frame. 1,457,578; June 5.
Koch, Heinrich, Hamm, Germany. Pressure-equalizing valve for piston valves. 1,458,101; June 5.
Koch, Henry J., Chicago, Ill., assignor to Wirebounds Patents Company, Kittery, Me. Wirebound box machine. 1,457,529; June 5.
Koester, Charles E., jr., Koester, assignor of one-half to E. A. Darrow, St. Louis, Mo. Mop holder. 1,458,063; June 5.
Kohlbach, Henry F. W., Fort H. G. Wright, N. Y. Attachment for lawn mowers. 1,457,309; June 5.
Kraft, Henry P., Ridgewood, N. J. Safety device for bottles. 1,457,706; June 5.
Kranz, Harry W., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Method and apparatus for shaping and trimming brake drums. 1,457,579; June 5.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,456; June 5.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,457; June 5.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,458; June 5.
Kubovcik, Jozef, Edwardsville, Pa. Ceiling-board support. 1,457,633; June 5.
Kupsche, Alexander B., Chicago, Ill. Swimming device. 1,457,908; June 5.
Kurtz, Stanley, Lorain, Ohio. Sewer-trap valve. 1,457,580; June 5.
Kushlan, Anton, Brownsville, Pa. Blow-off valve. 1,458,064; June 5.
Kylin, Oskar, assignor to Foster Machine Company, Elkhart, Ind. Core-making machine. 1,457,439; June 5.
Lang, Anton, Munich, Germany. Surety windlass for attachment to walls. 1,457,778; June 5.
Larkins, Emil H., Cleveland, Ohio. Key fastener. 1,458,065; June 5.
Larsen, Victor P., New York, N. Y., assignor to New York Blue Print Paper Co. Inc. Blue-print frame. 1,457,530; June 5.
Lasher, Elias, Catskill, N. Y. Vehicle seat. 1,457,843; June 5.
Lawaczeck, Franz, Halle-on-the-Saale, and H. Heymann, Darmstadt, Germany. Apparatus for balancing machinery. 1,457,629; June 5.
Lazar, William T., Appleton, Wis. Paper-interfolding machine. 1,457,978; June 5.
Lazarus, Albert, New York, N. Y. Chopper. 1,457,374; June 5.
Leavenworth, Seth H., Rochester, N. Y. Metal surfacing or abrading machine. 1,457,979; June 5.
Le Compte, Edward P., Park City, Utah. Coat adjuster. 1,458,066; June 5.
Leece, Charles E., assignor of one-third to Robert F. Leece and one-third to B. Clark, Youngstown, Ohio. Incandescent electric lamp. 1,457,440; June 5.
Leece, Robert F., et al. (See Leece, Charles E., assignor.)
Leeds & Northrup Company. (See Brewer, Henry, assignor.)
Leighton, George A., Roslindale, Mass., assignor to American Can Company, New York, N. Y. Soldering machine. 1,457,441; June 5.
Leipert, August H., assignor to International Motor Company, New York, N. Y. Cam-shaft unit. 1,457,707; June 5.
Leitner, Henry, London, England. Production of metal airscrews or propellers. 1,457,844; June 5.
Lemen, William W. (See Withrow, P. C., and Lemen.)
Leonardi, Bartholomew C., New Rochelle, assignor to George D. Wright Corporation, New York, N. Y. Dyeing. 1,457,581; June 5.
Le Pere, John G. (See Hey, E. A., Le Pere, and Webber.)
Lewandoski, Valentine, Chicago, Ill. Combination furniture. 1,457,582; June 5.
Lewes, Lee, et al. (See Fletcher, John B., assignor.)
Lewis, Semon S., New York, N. Y. Fabric board. 1,457,740; June 5.
Liebeck, Harry, Swarthmore, Pa., assignor to Scott Paper Company. Steam drying system for paper-making and other machines. 1,457,779; June 5.
Lindenmayer, Arthur, Lansdowne, Pa. Receptacle for holding powdered material or the like. 1,457,879; June 5.
Linton, Michael S., Memphis, Tenn. Piston-ring tool. 1,458,067; June 5.
Lippy, Charles H., Snohomish County, Wash. Glare shield. 1,457,929; June 5.
Liptak Fire Brick Arch Co. (See Liptak, Michael, assignor.)
Liptak, Michael, St. Paul, assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn. Furnace. 1,457,443; June 5.
Liptak, Michael, St. Paul, assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn. Furnace arch. 1,457,442; June 5.
Little, Emery F., Hudson, S. Dak. Wire stretcher. 1,457,531; June 5.
Livingston, Stanley D., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Current regulator for ignition systems. 1,457,310; June 5.
Ljungström, Fredrik, Brevik, Lidingon, Sweden. Means for preventing formation of rust in turbines being at rest. 1,458,068; June 5.
Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Wall covering. 1,457,909; June 5.
Lochhead, James S., Pittsburgh, Pa. Bar-grinding machine. 1,457,845; June 5.
Loebell, Henry O., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Gas-fired melting furnace. 1,457,780; June 5.
Loichot, Paul F., Louisville, Ohio. Electric power mechanism. 1,457,010; June 5.
London, Willis, Franklin, Ky. Fastener for automobile chains. 1,458,069; June 5.
Long, Charlie P. (See Long, Willis C. and C. P., and Stephens.)
Long, Willis C. and C. P., and J. M. Stephens, Hastings, Okla. Insect exterminator. 1,458,070; June 5.
Loofs, William J., and C. C. Cox, Houston, Tex. Sample-taking device. 1,457,583; June 5.
Louden Machinery Company, The. (See Neller, Albert H., assignor.)
Loughead, Malcolm, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif. Nonexpansive hose and making same. 1,457,781; June 5.
Lougheed, Victor, assignor to Enterprise Foundry Company, San Francisco, Calif. Mold mixture. 1,457,375; June 5.
Lucas, William B., Oak Park, Ill. Combination pneumatic jack and tire inflater. 1,457,665; June 5.
Luckenbach Processes, Inc. (See Luckenbach, Royer, assignor.)
Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Composition of matter. 1,457,708; June 5.
Ludl, Adolf, Grenchen, Switzerland. Thermostatic circuit closer. 1,457,376; June 5.
Ludwig, Hans, Oberursel am Taunus, Germany. Free wheel hub. 1,457,311; June 5.
Lundsgaard, Christen J. S., Vejen, Denmark. Explosive. 1,457,709; June 5.
Lyon, George A., Philadelphia, Pa. Automobile buffer attacher. 1,457,533; June 5.
Lyon, George A., Philadelphia, Pa. Resilient front buffer. 1,457,534; June 5.
Lyon, George A., Philadelphia, Pa. Vehicle buffer device. 1,457,532; June 5.
Maatschappij tot Vervaar diging van Snijmachines Volgens "Van Berkel's Patent" en van Andere Werktuigen. (See Van Berkel, Cornelis F. M., assignor.)
MacDonald, James M., East Orange, N. J. Arm lock for golf players. 1,457,710; June 5.
MacDonald, Joseph N., Arlington, Mass. Building construction. 1,457,981; June 5.
MacKenzie, George A., Bay City, Mich. Grate. 1,457,377; June 5.
Maclean, David A., San Francisco, Calif. Centrifugal compressor. 1,457,536; June 5.
MacMartin, James, Albany, N. Y. Railway tie. 1,457,537; June 5.

MacPherson, Hugh D., Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,457,912; June 5.
Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Water heater. 1,457,890; June 5.
Magny, Daniel, Issoudun, France. Machine for setting and mixing pig bristles. 1,457,783; June 5.
Maibrunn, Myron, New York, N. Y. Lamp bracket. 1,457,587; June 5.
Majewski, Joseph M., jr. Kansas City, Mo. Automatic band-saw filing and setting machine. 1,457,588; June 5.
Majka, Steve, and P. Borowsky, Dover, N. H. Station indicator. 1,457,378; June 5.
Makower, Dave, San Francisco, Calif. Camera support. 1,457,982; June 5.
Malone, Ira E., Beeville, Tex. Fishgig. 1,457,983; June 5.
Mandel, Carl, San Francisco, Calif. Folding automobile bed. 1,457,984; June 5.
Mander, Joseph D. (See Binns, William, assignor.)
Mann, Julius, New York, N. Y. Lock. 1,457,985; June 5.
Mannowski, Walter, Berlin-Nowawes, Germany, assignor to the Firm Ditta "Roma", Milan, Italy. Apparatus for displaying advertisements. 1,457,666; June 5.
Marcum, Harve, Booneville, assignor of one-half to R. B. Roberts, Hazard, Ky. Grappling tongs. 1,457,445; June 5.
Marcy, Frank E., Los Angeles, Calif. Roller mill. Re15,620; June 5.
Marcy, Frank E., Los Angeles, Calif. Roller mill. Re15,621; June 5.
Marcy, Frank E., Los Angeles, Calif. Roller mill. Re15,622; June 5.
Mareau, Perry D., Binghamton, N. Y. Can lifter. 1,457,379; June 5.
Mark, Louis, and P. Bialy, Portland, Oreg. Spring wheel. 1,457,538; June 5.
Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Preparing inner tubes for vulcanization. 1,457,986; June 5.
Marshick, Oliver J., and E. L. Crosby, Detroit, Mich. Reversing mechanism. 1,457,312; June 5.
Maschinenfabrik Rüti. (See Derrer, Rudolf, assignor.)
Masow, Frank H., Berkeley, Calif. Saw-filing device. 1,457,880; June 5.
Massoll, Curtis A., assignor to J. A. Whittaker, Detroit, Mich. Latch. Re15,619; June 5.
Mathews, Frank, Croydon, and S. D. Black, London, England. Registering ticket punch. 1,457,913; June 5.
Matthaei, Max, Cassel-Wilhelmshohe, Germany. Permanent way. 1,457,539; June 5.
Matthews, John F., Dover, England. Chimney for buildings or other structures. 1,457,540; June 5.
Maurer, Edward P., Cleveland, Ohio. Transformer. 1,457,784; June 5.
Maynard, Albert C., Berkeley, Calif. Vanity case. 1,457,541; June 5.
McCaleb, Lon, Dyersburg, Tenn. Drying support for articles. 1,457,444; June 5.
McClintock, O. B., Company. (See Jones, Earle M.)
McCuen, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Sealed bearing. 1,457,584; June 5.
McCuen, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Valve. 1,457,585; June 5.
McCune, Merle B., Woodlawn, Pa. Nozzle. 1,457,535; June 5.
McDonald, Thomas H., Adelanto, Calif. Means for patching blow-outs in pneumatic tires. 1,457,846; June 5.
McEwen, Lawrence D., Des Moines, Iowa. Condenser. 1,457,847; June 5.
McGettigan, Frank J., Portland, Oreg. Picture-projector attachment. 1,457,782; June 5.
McIntosh, Peter E., and R. O'Connell, Kalamazoo, Mich. Boiler plug. 1,457,911; June 5.
McLain, Dan B., and E. M. Tatum, assignors of one-third to J. A. Milam, Little Rock, Ark. Rail brace. 1,457,586; June 5.
McLaughlin, Wilson L., Decatur, Ill. Making fuel. 1,458,106; June 5.
McMasters, Walter B., Wheeling, W. Va. Headlight lens. 1,457,980; June 5.
Mechau, Robert. (See Villiger, W., and Mechau.)
Melling, George, Lansing, Mich. Making flanged nuts. 1,457,914; June 5.
Menger, Emil, Wiesbaden, Germany. Gasifying burner for liquid fuel. 1,457,542; June 5.
Meridian, Fred, Vancouver, Wash. Valve grinder. 1,457,785; June 5.
Merriam, Edmund S., Marietta, Ohio. Recovery of gasoline from natural gas, etc. 1,457,786; June 5.
Merrimac Chemical Company. (See Stantial, Frank G., assignor.)
Merry, Ambrose A., et al. (See Ayers, Webb W., assignor.)
Metcalfe, Harry, Somersworth, N. H. Process and machine for continuous dyeing. 1,457,741; June 5.
Metzger, William, New York, N. Y. Means for distributing lubricating grease. 1,457,380; June 5.
Michener, Elwood H., Woodlynne, assignor to Acme Staple Company, Camden, N. J. Stapling machine for driving wire staples. 1,457,446; June 5.
Michigan Valve Foundry and Engineering Company. (See Flower, John W., assignor.)
Mickelson, Ole, Hoquiam, Wash. Safety lock for logging books. 1,457,987; June 5.
Midgley, Albert H., Uxbridge, England. Dynamo-electric machine. 1,457,381; June 5.
Midon, Charles A., Paris, France. Roller skate. 1,457,667; June 5.
Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
Mikkelson, Berent A., Seattle, Wash. Line-shaft shock absorber. 1,457,711; June 5.
Milam, Jesse A. (See McLain, D. B., and Tatum, assignors.)
Miller, Charles A., New York, N. Y. Valve-rod-adjusting device. 1,457,589; June 5.
Miller, Charles R., Collinsville, Tex., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Grease gun. 1,457,988; June 5.
Miller, Ernest R., Montgomery County, near Centerville, Ohio. Safety device for tractors. 1,457,712; June 5.
Miller, Henry C., Waterford, N. Y. Buttonhole machine. 1,457,742; June 5.
Miller, Moses A., St. Albans, Vt. Sash lock and holder. 1,457,382; June 5.
Miller, Stuart P., and J. R. Hess, Philadelphia, Pa., assignors to The Barrett Company. Nitrating aromatic hydrocarbon. 1,457,543; June 5.
Miller, William H., Hillsboro, Ill. Puzzle. 1,457,383; June 5.
Miller, William R., Park Place, Pa. Bearing box for mine cars. 1,457,384; June 5.
Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving circuits. 1,457,447; June 5.
Milwaukee Stamping Co. (See Petrie, August J., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miners Supply and Equipment Company. (See Hurl, Charles W., assignor.)
Misner, Julius C., Terre Haute, Ind. Oil burner. 1,457,590; June 5.
Mitzenmacher, Sam, assignor of one-half to N. Kanet, Chicago, Ill. Turnstile registering apparatus. 1,457,448; June 5.
Moetteli, Arnold, Ober-Winterthur, Switzerland. Coke-quenching process. 1,457,713; June 5.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Cloth plate for sewing machines. 1,457,449; June 5.
Mojonnier Bros. Co. (See Mojonnier, Timothy, assignor.)
Mojonnier, Timothy, Oak Park, assignor to Mojonnier Bros. Co., Chicago, Ill. Agitator. 1,457,848; June 5.
Moldenke, Edel, assignor to Moldenke Process Corporation, Watchung, N. J. Treating aluminous materials. 1,457,787; June 5.
Moldenke Process Corporation. (See Moldenke, Edel, assignor.)
Monks, Michael S., Pittsfield, Mass. Mixing device for internal-combustion engines. 1,457,989; June 5.
Monson, George S., St. Paul, Minn. Dental articulator. 1,457,385; June 5.
Montagna, Cherubino, Cecil, Pa. Spring for doors. 1,457,714; June 5.
Moore, Merrill, Creston, Iowa. Mold for tiles or blocks of concrete. 1,457,991; June 5.
Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Large jet condenser. 1,457,788; June 5.
Morgan, Edward C., New York, N. Y. Display stand. 1,457,990; June 5.
Morgan, Wilbert H., Brooklyn, N. Y. Drier for photographic prints. 1,457,451; June 5.
Morgan, Willis H., Connersville, Ind. Cupola-charging hoist. 1,457,450; June 5.
Morris, Henry, assignor to The Western Tool & Manufacturing Company, Springfield, Ohio. Dressing tool for emery wheels. 1,457,452; June 5.
Morris, Thomas C., Harrisville, W. Va. Valve for tanks, etc. 1,457,743; June 5.
Morrison, Hackley, Richmond, Va. Safety device for pipe-cutting machines. 1,457,992; June 5.
Morrison, Ralph W., Omaha, Nebr. Phonograph. 1,457,313; June 5.
Morse, Albert W., Forest Hills, N. Y. Burner. 1,457,849; June 5.
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Augusto E., assignor of one-half to J. H. Jarvin, Chicago, Ill. Occupant-propelled sled. 1,457,591; June 5.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Float-valve-operating mechanism. 1,457,314; June 5.
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Flush valve for tanks. 1,457,315; June 5.
Munning, A. P., & Co. (See Zucker, Henry L., assignor.)
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murphy, Patrick A., Lynn, assignor to Textile Rubber Co., Boston, Mass. Drawing roll. 1,457,453; June 5.

Murray, Edward W., assignor of forty-five one-hundredths to J. E. Bryant, Detroit, Mich. Lock washer. 1,457,592; June 5.
Murray, George A., Concord, N. H. Sewing cabinet. Des. 62,459; June 5.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Flexible power transmission. 1,457,789; June 5.
Myers, Alfred B., Gates, Oreg. Safety valve. 1,457,544; June 5.
Myers, Alfred B., Gates, Oreg. Brake retainer. 1,457,545; June 5.
Myers, William M., Hannibal, Mo. Belt buckle. 1,457,386; June 5.
Mylchreest, Thomas G., Thorner, near Leeds, England. Doffing mechanism for spinning and like machines. 1,457,593; June 5.
Nakamura, Mitsutaro, Chico, Calif. Insect-destroying device. 1,458,071; June 5.
Namura, Takeo, Walnut Grove, Calif. Pump. 1,457,546; June 5.
National Retarder Company. (See Stagner, Bert A., assignor.)
Naugle, Girardus G., York, Pa. Lubricating system for automobiles. 1,457,993; June 5.
Neal, C. B. (See Powell, A., and Neal.)
Neary, Philip, Seattle, Wash. Excavating device. 1,457,742; June 5.
Nedland, Ivan T., Hillsboro, N. Dak. Chuck. 1,457,994; June 5.
Neitzel, Frank E., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation. Multiple-spindle drill. 1,457,387; June 5.
Nelems, Charles W., Birmingham, assignor of one-half to J. W. Riddle, East Lake, Ala. Folding hatchet. 1,457,930; June 5.
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Division for animal mangers. 1,457,850; June 5.
Nelson, Nicolay. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
Nelson, Nordahl O., Westby, Wis. Runner carrier. 1,457,595; June 5.
Nelson, Peter T., Gem, Kans. Water-elevating device. 1,457,995; June 5.
Nelson, Steven C., Finley, N. Dak. Grass eradicator. 1,457,996; June 5.
Neri, Manuel H., Los Angeles, Calif. Device for spraying hot fluid substances. 1,457,634; June 5.
Nesbit, Arthur F., Wilkinsburg, Pa. Voltage regulator. 1,457,851; June 5.
Netter, Adelaide F., executrix. (See Netter, Raphaël.)
Netter, Raphaël, deceased, New York, N. Y.; A. F. Netter, executrix. Attachment to sewing machines. 1,457,547; June 5.
New Jersey Twin Hoist Company. (See Gasser, Joseph, assignor.)
New York Blue Print Paper Co. (See Larsen, Victor P., assignor.)
Newman, Earnest, Lake Providence, La. Decoy. 1,457,388; June 5.
Newman, Edward A. (See Newman, Emil C. and E. A.)
Newman, Emil C., Cincinnati, Ohio, and E. A. Newman, Chicago, Ill. Containing cabinet. 1,457,744; June 5.
Nicholas Power Company. (See Ellwood, William, assignor.)
Nichols, Howard M., Swarthmore, assignor to The Atlantic Refining Company, Philadelphia, Pa. Container. 1,457,790; June 5.
Noel, Mae, Washington, D. C. Plaiting apparatus. 1,457,997; June 5.
Nolen, Emmie T. (See Cook, Clara L., assignor.)
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Northrup, Elmer C., San Francisco, and E. H. Specht, Oakland, Calif. Apparatus for treating packaged goods. 1,457,852; June 5.
Norris, James F., and E. O. Cummings, Cambridge, Mass. Making succinic acid. 1,457,791; June 5.
Norris, Marvin L., Fort Wayne, Ind., assignor to General Electric Company. Friction governing device. 1,457,745; June 5.
Norwood, Harry G., Baltimore, Md. Table article. 1,457,998; June 5.
Null, Fay E., Urbana, Ill. Manure loader. 1,457,668; June 5.
Nutter, Orda D., assignor to Acme Fishing Tool Company, Parkersburg, W. Va. Tubing spear. 1,457,596; June 5.
O'Bryan, James W. (See O'Bryan, Kenneth C. and J. W.)
O'Bryan, Kenneth C. and J. W., Washington, D. C. Justifying device for typewriters and the like. 1,457,853; June 5.
O'Connell, Russell. (See McIntosh, P. E., and O'Connell.)
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity spring. 1,457,931; June 5.
Odle, Guy L. (See Odle, Paul L. and G. L.)
Odle, Paul L. and G. L., Detroit, Mich. Moving sign. 1,457,669; June 5.
Ohler, Chester, Sugar Creek, Mo. Piston ring. 1,458,072; June 5.
Ohmart, Otto, Cairo, Ill. Battery and bulb tester. 1,457,597; June 5.
Oil Wells Renewal Company. (See Brine, Percival F., assignor.)
Older, Roy B., Danville, Ill. Electrically-heated flatiron. 1,457,792; June 5.
Olsen, Frank A., San Gabriel, Calif. Water meter. 1,457,932; June 5.
Osborne, Raymond G., Los Angeles, Calif. Protecting reenforcement in concrete and the like. 1,457,598; June 5.
Otis Company. (See Rood, William B., assignor.)
Owsianek, John P., Ituna, Saskatchewan, Canada. Automobile jack. 1,457,881; June 5.
Pabst, Fred, Company. (See Fay, Joseph W., assignor.)
Pace, Edgar J., assignor to E. L. Payne, Los Angeles, Calif. Valve. 1,457,599; June 5.
Packard Motor Car Company. (See Peterson, Walter C., assignor.)
Packard Motor Car Company. (See Stanbrough, Duncan G., assignor.)
Padilla, Rafael, New York, N. Y. Display device for advertising and educational purposes. 1,458,073; June 5.
Parker, Daniel W., Everett, Wash., assignor to The Parker Rotary Stone Saw Company, San Francisco, Calif. Saw guide. 1,457,600; June 5.
Parker Rotary Stone Saw Company, The. (See Parker, Daniel W., assignor.)
Parker, Thomas W., et al. (See Cochran, William R., assignor.)
Parks, Robert D., assignor to W-M-P Manufacturing Co., Lohrville, Iowa. Corn popper. 1,457,854; June 5.
Patee, Fred, Casper, Wyo. Building block. 1,457,454; June 5.
Payne, El Roy L. (See Pace, Edgar J., assignor.)
Pedersen, Waldemar J., Floral Park, N. Y. Concrete form. 1,457,999; June 5.
Peele Company, The. (See Wexler, Benjamin, assignor.)
Permutit Company, The. (See Duggan, Thomas R., assignor.)
Perry & Webster Incorporated. (See Perry, R. S., Webster, and Boynton, assignors.)
Perry, Robert S., Cave Spring, Ga., P. W. Webster, Pelham Manor, and V. K. Boynton, New York, N. Y., assignors to Perry & Webster Incorporated. Obtaining sulphur. 1,457,793; June 5.
Peters, Walter C., Graffham, Petworth, England. Lock nut. 1,457,455; June 5.
Peterson, Walter C., assignor to Packard Motor Car Company, Detroit, Mich. Mechanism for testing piston rings. 1,457,933; June 5.
Petit, Amédée, assignor to Societe Generale Agricole, Paris, France. Mixed-driving windlass vehicle for tilling purposes. 1,457,548; June 5.
Petrie, August J., assignor to Milwaukee Stamping Co., West Allis, Wis. Disk wheel. 1,457,456; June 5.
Petterson, John. (See Johnsen, Wilhelm, assignor.)
Petty, Le Roy L., Phoenix, Ariz., and P. E. Keller, Marion, Ohio. Spark plug. 1,457,389; June 5.
Peyer, Emil, Wangen, assignor to the Firm Walder & Co., Brutisellen, Zurich, Switerland. Device for inserting screws. 1,457,457; June 5.
Pfaff, Ernest C. (See Renner, F. K., and Pfaff.)
Pierce, James B., jr., Charleston, W. Va. Making precipitated barium sulphate and sodium sulphydrate 1,457,934; June 5.
Pierce, James B., jr., Charleston, W. Va. Making precipitated barium sulphate. 1,457,935; June 5.
Pietrok, Andrew N., Stayton, Oreg. Animal trap. 1,457,670; June 5.
Pikoos, Abraham, Baltimore, Md. Toothbrush. 1,458,074; June 5.
Piper, William E., New Canaan, Conn., assignor to The Dorr Company, New York, N. Y. Settling apparatus. 1,457,794; June 5.
Pittsburgh Steel Company. (See Bull, George E., assignor.)
Pizzuti, Giuseppe, Chicago, Ill. Wheel remover. 1,457,795; June 5.
Plamondon, Isidore J., Dubuque, Iowa. Book holder. 1,457,458; June 5.
Plante, Joseph A., San Pedro, Calif. Cutting overshot. 1,458,118; June 5.
Plasschaert, Hector, Wachtebeke-lez-Gand, Belgium. Valve for pneumatic tires. 1,457,390; June 5.
Plasschaert, Hector. Wachtebeke-lez-Gand, Belgium. Printing mechanism for registering machines. 1,457,391; June 5.
Pneumercator Company. (See Stancliffe, Cecil W., assignor.)
Polk, R. L., & Co. (See Dinsmore, Walter F., assignor.)
Pond, Charles P., assignor of one-half to G. L. Traffarn, Camden, N. Y. Top for vehicle bodies. 1,458,075; June 5.
Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Coffee urn. 1,457,392; June 5.
Potter & Buffinton Company. (See Weed, Edward L., assignor.)
Potts, Clifton W., Plano, Tex. Extracting device. 1,458,976; June 5.
Pougher, Arthur W., Manchester, England. Duplex lens. 1,457,393; June 5.
Powell, Alva R., and V. H. Futch, Nashville, Ga. Dispensing apparatus. 1,458,000; June 5.

Powell, Arthur, and C. B. Neal, McAlester, Okla. Rail joint. 1,457,746; June 5.
Prentice, Arthur T., Somerset West, Cape of Good Hope, South Africa. Burning sulphur. 1,458,001; June 5.
Prescett, George H., Oakland, Calif. Pin guard for trailer hitches. 1,457,747; June 5.
Pressed Steel Car Company. (See Winell, Karl O., assignor.)
Price, Arthur R., assignor of one-half to S. M. Ross, Detroit, Mich. Window-control mechanism. 1,457,316; June 5.
Priebe, Samuel W., Wyaconda, Mo. Frame for stacking grain. 1,457,936; June 5.
Pruet, Paul M., Kansas City, Kans. Legging. 1,457,601; June 5.
Pruitt, Marion C., Atlanta, Ga. Blood-transfusion apparatus. 1,457,796; June 5.
Puc, Vojtěch, Prague-Vinohardy, Bohemia. Feed mechanism for small metal articles. 1,457,459; June 5.
Purcell, Benjamin H. (See Hallock, G. H., Frederick, and Purcell.)
Queen City Material Co. (Steele, Edward B., assignor.)
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing equipment. 1,458,112; June 5.
Radle, Paul, Arkansaw, Wis. Harness-loop reenforcement. 1,457,602; June 5.
Raebse, Paul W., Hamburg, Germany. Bottle-stopper-varnishing device. 1,457,748; June 5.
Rankin, Thomas, Lake Bluff, Ill. Nipple-threading machine. 1,457,603; June 5.
Rast, Julius H., Charleston, S. C. Lock nut. 1,457,749; June 5.
Rathman, John H., Wichita, Kans. Bathing suit. 1,457,604; June 5.
Raymond, Harry C., Salt Lake City, Utah. Vehicle signal. 1,457,460; June 5.
Rector, William H., Williamson, W. Va. Battery case and switch. 1,457,671; Jan. 5.
Reddig, Clyde H., and H. A. Barrett, Lincoln, Nebr. Portable oven. 1,458,092; June 5.
Regan Forge & Engineering Company. See Bailey, Walter C., assignor.)
Reich, Celia, Brooklyn, N. Y. Undergarment. 1,457,394; June 5.
Reid, Albert T., Leavenworth, Kans. Baby jumper. 1,458,077; June 5.
Reilly, John F., New York, N. Y. Apparatus for disposing of snow. 1,457,797; June 5.
Reisenauer, Aloys J., Colton, Wash. Animal poke. 1,457,672; June 5.
Reisler, Joseph H., Milwaukee, Wis. Traction device. 1,457,295; June 5.
Renner, Frank K., and F. C. Pfaff, Chicago, Ill. Washing machine. 1,457,750; June 5.
Renshaw, Joseph H., Canton, Ohio. Metallic packing. 1,457,461; June 5.
Resolute Manufacturing Company. (See McCuen, Charles L., assignor.)
Reuse, Charles, Brussels, Belgium. Elastic wheel. 1,457,396; June 5.
Reynolds, Joy S., San Francisco, Calif., assignor to Reynolds Torch and Regulator Co., Seattle, Wash. Pressure-regulating valve. 1,457,937; June 5.
Reynolds, S. H., Sons Co. (See Keith, Frederick W., assignor.)
Reynolds Torch and Regulator Co. (See Reynolds, Joy S., assignor.)
Rice, Charles E., Livermore, Ky. Water-supply device for locomotive tenders. 1,457,715; June 5.
Rich, Frank J., administrator of C. P. Thomas, deceased. (See Arian, Edward D.)
Rich, Frank J., et al. (See Arian, Edward D., assignor.)
Richard, Joseph O., assignor to Hayes Manufacturing Company, Detroit, Mich. Curling machine. 1,457,549; June 5.
Richards, Harvey W., assignor to Score Mining Company, Portland, Oreg. Amalgamator support. 1,457,635; June 5.
Richardson, George R., Greene, N. Dak. Transmission attachment. 1,458,003; June 5.
Richardson, Sidney, Hatton Garden, London, England. Machinery for beveling the edges of glass lenses and the like. 1,457,855; June 5.
Riddle, John W. (See Nelems, Charles W., assignor.)
Riker, Andrew L., Fairfield, Conn. Circuit breaker for ignition systems. 1,457,462; June 5.
Riley Champlain L. North Plainfield N. J. assignor to Clark Macmullen & Riley, Inc. Carrier apparatus. 1,457,938; June 5.
Roberts, Carolina. (See Roberts, John, assignor.)
Roberts, Elmer O., Olympia, Wash. Disappearing table. 1,457,751; June 5.
Roberts, James K. (See Kashmere, J. C., and Roberts.)
Roberts, John, Elmira, N. Y., assignor of one-half to C. Roberts, White Haven, Pa. Track construction. 1,458,078; June 5.
Roberts, John F., Fresno, Calif. Grouter for wheels. 1,458,119; June 5.
Roberts, Rutherford B. (See Marcum, Harve, assignor.)
Robinson, Benjamin E., Ballyards, Kans. Fluid-discharge means for bottles. 1,458,004; June 5.
Rockwell, Robert L. (See Stevens, H. R., and Rockwell.)
Rogers, Carlyle W., Warren, Pa. Spring structure. 1,457,856; June 5.
Rober, Daniel, Spokane, Wash. Air-purifying device for motor-driven tire pumps. 1,458,005; June 5.
Rood, William B., assignor to Otis Company, Ware, Mass. Undergarment. 1,457,752; June 5.
Roquette, José C. F., assignor to M. De Ortigao Burnay, Paris, France. Thermostatic circuit closer. 1,457,939; June 5.
Ross, Secord M. (See Price, Arthur R., assignor.)
Rothschild, Max, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,460; June 5.
Royal Typewriter Company. (See Dowd, B. J., and Utz, assignors.)
Ruddell, William A., Asbury Park, N. J. Metal polish. 1,457,857; June 5.
Ruddell, William A., Asbury Park, N. J. Swimming mitt. 1,457,858; June 5.
Rugg, Walter S. (See Murray, H. J., and Rugg.)
Runkel, Grant A., Lancaster, Pa. Detachable fishhook. 1,457,550; June 5.
Runser, Frederick J., assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Making plugs. 1,458,006; June 5.
Ruppe, Cecil P., Oakley, Kans. Gate fastener. 1,458,079; June 5.
Russell, Annis O., Story City, Iowa. Railway signal. 1,457,673; June 5.
Rutkowski, Walter L. (See Cullen, W. J., and Rutkowski.)
S. K. Neckwear Limited, The. (See Stonge, Harvey E., assignor.)
Saiger, Lewis. (See Kennedy, B., and Saiger.)
Sargent & Company. (See Sargent, Edward R., assignor.)
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket handle. 1,457,859; June 5.
Schaub, Alfred J., sr., Oakland, Calif. Envelope moistener. 1,457,605; June 5.
Scheckenbach, Michael. (See Grieshaber, Eugene, assignor.)
Schiehr, Joseph A., Chicago, Ill. Handle for cutlery articles. 1,457,606; June 5.
Schiltzer, Frank C., Buffalo, N. Y., assignor to The Beaver Company. Sample container. 1,457,551; June 5.
Schmid, Julius, Montgomery, N. Y. Powder puff. 1,457,798; June 5.
Schmidt, Charles, Clifton, N. J. Nail-driving device. 1,457,552; June 5.
Schmidt, Gustave F., Chicago, Ill. Gas heater. 1,457,553; June 5.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-translating device. 1,457,799; June 5.
Schmitt, Frederick, Oakland, Calif. Boiler-flue-setting device. 1,457,753; June 5.
Schoeller, Walter, Freiburg, Breisgau, Germany. Pharmaceutical product. 1,457,675; June 5.
Schrader's, A., Son, Incorporated. (See Wahl, John, assignor.)
Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Combination frame. 1,457,608; June 5.
Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Magneto. 1,457,463; June 5.
Schwed, Bertie S., Far Rockaway, N. Y. Sewing case. 1,457,860; June 5.
Score Mining Company. (See Richards, Harvey W., assignor.)
Scott Paper Company. (See Liebeck, Harry, assignor.)
Seddon, Samuel M. (See Wigton, G. H., and Seddon.)
Seed, Mack, Billett, Ill. Demountable rim. 1,458,007; June 5.
Sell, Daniel G., Kansas City, Mo. Drip coffeepot. 1,457,317; June 5.
Seufert, Friedrich, Munich, Germany, and H. Seufert, Brooklyn, N. Y. Moving-picture machine. 1,457,554; June 5.
Seufert, Hermann. (See Seufert, Friedrich and H.)
Sexton, Roy W., Wytheville, Va. Filler form. 1,458,008; June 5.
Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Derrick. 1,457,397; June 5.
Shaffer, Frank E. (See Cooper, J. C., and Sigrist, assignor.)
Sharp & Smith. (See Brix, Harold, assignor.)
Shaver, Allan C., Montreal, Quebec, Canada. Composition for removing rust from fabrics. 1,457,609; June 5.
Sherman, John Q., Dayton, Ohio. Flat-bed manifolding machine. 1,457,940; June 5.
Sherrod, Rufus M., assignor of forty-nine-one-hundredths to B. H. Sullenger, Dyersburg, Tenn. Pool-ball carrier. 1,457,464; June 5.
Sherwin, Isaac S., Chattanooga, Tenn. Shade fixture. 1,457,465; June 5.
Shevlin, George F., Glens Falls, N. Y. Valve. 1,457,318; June 5.
Shevlin, George F., Glens Falls, N. Y. Cooler for reclaimed liquor and gas in paper-pulp processes. 1,457,941; June 5.
Shimer, Edward F., and R. I. Frey, Phillipsburg, N. J. Brake-shoe spreader. 1,458,080; June 5.

Shively, Walter E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 1,457,942; June 5.
Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Cooling system for internal-combustion engines. 1,457,944; June 5.
Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon motor. 1,457,943; June 5.
Shott Manufacturing Company, The. (See Gail, Charles H., assignor.)
Shrauger, Darius E., Atlantic, Iowa. Farrowing-rail bracket. 1,457,636; June 5.
Shrum, Peter J., Monaco Heights, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Thread protector. 1,457,882; June 5.
Siedersleben, W. & Co. (See Erhardt, Ludwig, assignor.)
Sievers, William O., Newell, Iowa. Device for conducting surface water to drain tiles. 1,457,637; June 5.
Signal Electric Mfg. Co. (See Fussner, George, assignor.)
Sigrist, John J. (See Cooper, J. C., and Sigrist.)
Silander, Arthur E., Berlin, Germany. Brush-making machine. 1,457,398; June 5.
Simone, Benedetto P., Providence, R. I. Razor-blade sharpener. 1,457,399; June 5.
Simonsville Manufacturing Company, The. (See Snagg, Cornelius N., assignor.)
Sincell, James A., Grafton, W. Va. Antiskid chain. 1,458,107; June 5.
Siptroth, Erwin F., Easton, Pa. Coaling device. 1,457,400; June 5.
Skelton, David P., Chattanooga, Tenn. Cotton file. 1,457,638; June 5.
Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Mounting for fusion kettles. 1,458,108; June 5.
Smith, Claude R., Washington, D. C. Purifying gelatin and glue. 1,457,466; June 5.
Smith, Clement C., Wheeling, W. Va. Car-dumping platform. 1,457,754; June 5.
Smith, Harry, Scioto Mills, Ill. Automobile tire chain. 1,458,081; June 5.
Smith, Henry, Turnersville, Tex. Fishing device. 1,457,401; June 5.
Smith, Hubert G. (See Thoke, A. R., and Smith.)
Smith, James H., Chicago, Ill. Bearing. 1,457,555; June 5.
Smith, John F., Taunton, Mass. Safety shoe. 1,457,402; June 5.
Smith, Joseph J., Cambridge, Mass. Device for operating upon the cards of carding engines. 1,457,467; June 5.
Smith, Luther E., Shelburne Falls, Mass., assignor of one-third to C. E. Davenport and one-third to J. C. Hoffman, New Britain, Conn. Cider mill. 1,457,755; June 5.
Smith, Sydney A., Boston, Mass. Transmission gear. 1,457,945; June 5.
Smith, Theodore M., New York, N. Y. Educational device. 1,457,468; June 5.
Smythe, Horace E., Pittsburgh, Pa. Furnace. 1,457,556; June 5.
Smythe, Horace E., Pittsburgh, Pa. Furnace. 1,457,557; June 5.
Snagg, Cornelius N., assignor to The Simonsville Manufacturing Company, Waterbury, Conn. Auxiliary air-inlet device for internal-combustion engines. 1,457,403; June 5.
Snyder, John E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Blade shrouding. 1,457,404; June 5.
Societe Anonyme des Etablissements Nieuport. (See Delage, Gustave, assignor.)
Societe Generale Agricole. (See Petit, Amédée, assignor.)
Sommer, J. L., Manufacturing Co. (See Harding, T., and Biehl, assignors.)
Sommer, J. L., Manufacturing Co. (See Sommer, John L., assignor.)
Sommer, John L., Newark, N. J. Garment hanger. 1,458,114; June 5.
Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Garment hanger. 1,458,113; June 5.
Sommers, Edward P., Los Angeles, Calif. Starter for internal-combustion engines. 1,457,946; June 5.
Sorensen, Herman I. (See Tabor, Clinton D., assignor.)
Sorensen, S. Waldeman, et al. (See Cochran, William R., assignor.)
Sparling, Benjamin F., Unionville, N. Y. Splice. 1,458,009; June 5.
Specht, Edward H. (See Northrup, E. C., and Specht.)
Spence, Thomas, assignor of one-half to C. E. Davis, Philadelphia, Pa. Record-filing device. 1,458,109; June 5.
Spencer, Moses, Saylesville, R. I., assignor, by mesne assignments, to Hopedale Manufacturing Company, Milford, Mass. Spinning frame. 1,457,405; June 5.
Spielman, Charles, Richmond Hill, assignor to Wm. A. Force & Company, Inc., New York, N. Y. Ink-pad mechanism for numbering machines. 1,457,756; June 5.
Spindel, Moses, Innsbruck, Austria. Testing machine. 1,457,800; June 5.
Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
Sprague, Henry H., assignor to The Sprague Meter Company, Bridgeport, Conn. Gas meter. 1,458,010; June 5.
Sprague, Henry H., assignor to The Sprague Meter Company, Bridgeport, Conn. Gas meter. 1,458,011; June 5.
Sprague Meter Company, The. (See Sprague, Henry H., assignor.)
Sproule, Albert H., London, England. Internal-combustion engine. 1,457,322; June 5.
St. Louis Pump & Equipment Company. (See Hinds, Sherwood, assignor.)
Stackhouse, John A., Dover, N. J. Grate. 1,458,012; June 5.
Stacy, John L., et al. (See Coats, E. O., and Bartholomew, assignors.)
Stagner, Bert A., Pittsburgh, Pa., assignor to National Retarder Company, Chicago, Ill. Growing of yeast. 1,457,319; June 5.
Stagner, Bert A., Pittsburgh, Pa., assignor to National Retarder Company, Chicago, Ill. Growing of yeast. 1,457,320; June 5.
Stanbrough, Duncan G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,457,947; June 5.
Stancliffe, Cecil W., assignor to Pneumercator Company, New York, N. Y. Depth and specific-gravity measuring apparatus. 1,457,406; June 5.
Standard Metal Spinning Co. (See Horovitz, Morris R., assignor.)
Standard Oil Company. (See Wall, Myron S., assignor.)
Stantial, Frank G., Melrose, assignor to Merrimac Chemical Company, Woburn, Mass. Making sulphuric acid and apparatus therefor. 1,457,676; June 5.
Stebler, Fred, assignor to Stebler Parker Co., Riverside, Calif. Fruit cleaner. 1,457,861; June 5.
Stebler Parker Co. (See Stebler, Fred, assignor.)
Steele, Edward B., Rochester, assignor to Queen City Material Co., Buffalo, N. Y. Engraver's transferring device. 1,457,469; June 5.
Stein, Jacob, New York, N. Y. Ventilated sanitary garment. 1,458,082; June 5.
Steinkamp, George F., Cincinnati, Ohio. Combined stationary washstand and bath chair. 1,457,470; June 5.
Stephens, Joseph M. (See Long, Willis C. and C. P., and Stephens.)
Stephenson, Spencer H., Center Point, Iowa. Attachment for music stands. 1,458,083; June 5.
Stern, Harry L., Philadelphia, Pa. Lace. Des. 62,461; June 5.
Stettner, John, Philadelphia, Pa. Comb cleaner. 1,457,757; June 5.
Stevens, Henry R., and R. L. Rockwell, assignors, by mesne assignments, to E. G. Howe, trustee, Seattle, Wash. Combination air valve and electric switch. 1,457,558; June 5.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. 1,458,110; June 5.
Stiegler, George, Cincinnati, Ohio. Watch-chain holder. 1,457,716; June 5.
Stivers, William D., Detroit, Mich., assignor of one-half to G. P. Kimmel, Washington, D. C. Automobile gasoline gauge. 1,457,471; June 5.
Stockham, Charles E., Oskaloosa, Iowa. Cow-tail holder. 1,457,631; June 5.
Stockland, Charles K., Minneapolis, Minn. Road-grading machine. 1,457,862; June 5.
Stockwell, Austin F., Los Angeles, Calif. Folding non-skid armor equipment for automobile tires. 1,457,948; June 5.
Stokes, Charles L., Los Angeles, Calif. Liquid-feed system. 1,457,758; June 5.
Stokes, James G. P., New York, N. Y. Rifle demonstrator. 1,457,407; June 5.
Stonge, Harvey E., assignor to The S. K. Neckwear Limited, Toronto, Ontario, Canada. Tie. 1,457,559; June 5.
Straight, Merton T., Adel, Iowa. Truck for handling hollow blocks and tile. 1,457,639; June 5.
Strawmyer, William A., and V. Beaman, Atlanta, Ga. Device to control the temperature of storage batteries in automobiles. 1,457,863; June 5.
Strieker, Harry C., Cincinnati, Ohio. Photographic-film holder. 1,457,864; June 5.
Strong, Benjamin H., West Point, Miss. Crawfish destroyer. 1,457,321; June 5.
Strout, Myron B., Poland, Me. Movable headlight. 1,458,084; June 5.
Struve, Felix L. (See Williams, J. D., Bolton, and Struve.)
Stubbs, William P., Leek, England. Collapsible carton. 1,457,641; June 5.
Stubbs, William P., Leek, England. Collapsible stand. 1,457,640; June 5.
Sturtevant, B. F., Company. (See Allen, George W., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Electrically-vibrated screen. 1,458,111; June 5.
Sullenger, Bynum H. (See Sherrod, Rufus M., assignor.)

Summers, Bertrand S., Port Huron, Mich. Making paper pulp. 1,457,915; June 5.

Sunderman, Frederick R., Detroit, Mich., assignor to Sunderman Products, Inc., Newburgh, N. Y. Carburetor. 1,457,408; June 5.

Sunderman Products, Inc. (See Sunderman, Frederick R., assignor.)

Susquehanna Silk Mills. (See Bunting, James H., assignor.)

Susquehanna Silk Mills. (See Katz, Clara, assignor.)

Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)

Susquehanna Silk Mills. (See Rothschild, Max, assignor.)

Susquehanna Silk Mills. (See Weiss, Virginia, assignor.)

Sykes, Miles M., San Francisco, Calif. Trolley replacer 1,457,677; June 5.

Taber, Hubert C., assignor of one-half to A. M. Jones, Los Angeles, Calif. Centrifugal amalgamator. 1,457,560; June 5.

Tabor, Clinton D., Huntington, assignor of one-half to H. I. Sorenson, New York, N. Y. Sash center. 1,457,323; June 5.

Tabor, Milton B., Swanton, Vt. Potato grader. 1,458,085; June 5.

Tampier, René J. C., Boulogne-sur-Seine, France. Operating handle for control or other mechanisms. 1,458,013; June 5.

Tatum, Elbert M. (See McLain, D. B., and Tatum.)

Taylor, Bayard E., Chicago, Ill. Coupling connection and noncorrosive coating therefor. 1,457,561; June 5.

Taylor, James A., Waco, Ky. Collar button and tie holder. 1,457,324; June 5.

Technicolor Motion Picture Corporation. (See Comstock, Daniel F., assignor.)

Textile Rubber Co. (See Murphy, Patrick A., assignor.)

Thatcher, Martin F., York, Pa. Feed-mixing machine. 1,457,325; June 5.

Theroz Company, The. (See Popper, Isaac C., assignor.)

Thiel, Ignatius L., Derrick City, Pa. Chain hook. 1,458,086; June 5.

Thoke, Albert R., Pittsburgh, and H. G. Smith, Wilkinsburg, Pa. Threading tool. 1,457,409; June 5.

Thole, Ferdinand B. (See Dunstan, A. E., and Thole.)

Thomas, Charles P., et al. (See Arian, Edward D., assignor.)

Thomas, Wion P., Carlton, N. Y. Fruit elevator. 1,457,562; June 5.

Thompson, Charles W. (See Davison, Maggie T., and Thompson.)

Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car end. 1,457,916; June 5.

Thompson, William H., New York, N. Y. Time atamp. 1,457,410; June 5.

Thorsen, Kristen A., Grenoble, France. Apparatus for comminuting, refining, and triturating paper or cardboard pulps. 1,457,565; June 5.

Tichota, August. (See Tichota, Vencel J. & A.)

Tichota, Vencel J. and A., Dodge, Nebr. Draft equalizer. 1,457,472; June 5.

Tinker, Alfred E., Stockton, Calif. Combination tail light and direction indicator. 1,457,473; June 5.

Tober, Carl, Berlin, Germany. Braiding machine. 1,457,474; June 5.

Toledo Standard Commutator Company, The. (See Van Dusen, Charles A., assignor.)

Tompkins, John D., Valatie, N. Y. Process of and apparatus for cooking fibrous materials. 1,457,326; June 5.

Tooley, Roy P., and C. W. Johnson, Wichita Falls, Tex. Safety valve. 1,458,087; June 5.

Traffarn, George L. (See Pond, Charles P., assignor.)

Tremain, Charles A., Bellingham, Wash. Phonograph-tone rectifier and amplifier. 1,457,678; June 5.

Trout, Hiram B., Mattoon, Ill. Ventilating window for passenger cars and the like. 1,457,949; June 5.

Troy Laundry Machinery Co. (See Hager, William R., assignor.)

Tucker, Charles O., Hutchinson, Kans. Tone regulator. 1,457,327; June 5.

Turner, James. (See Crabill, P. P., and Turner.)

Twiss, Paul E., Swampscott, Mass., assignor to General Electric Company. Controlling mechanism for electric vehicles and the like. 1,457,759; June 5.

Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Annealing and apparatus used therein. 1,457,883; June 5.

Tyler, Ralph S., Cleveland Heights, assignor to The Chandler and Price Company, Cleveland, Ohio. Printing press. No. 1,457,717; June 5.

Tyner, Eva., Canon City, Colo. Candy. Des. 62,462; June 5.

Uberto, Amedeo L., Oakland, Calif. Household refrigerator. No. 1,457,940; June 5.

Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)

Underwood Computing Machine Company. (See Vance, Rice B., assignor.)

Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)

Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter-operating device. 1,457,563; June 5.

Union Special Machine Company. (See Moffatt, James R., assignor.)

Universal Crane Company, The. (See Deucher, Eugene G., assignor.)

Unnold, Leroy F., Brooklyn, N. Y. Shoe lace. 1,458,088; June 5.

Unruh, Albert A., assignor of one-half to E. J. Vennewitz, Portland, Oreg. Garage-door opener. 1,457,642; June 5.

Urbanik, Andrew, Central Falls, R. I. Cutting implement. 1,457,643; June 5.

Utz, Anthony. (See Dowd, B. J., and Utz.)

Valentine, Irving R., Erie, Pa., assignor to General Electric Company. Electric furnace. 1,457,718; June 5.

Van Berkel, Cornelis F. M., assignor to Maatschappij tot Vervaardiging van Snijmachines Volgens "Van Berkel's Patent" en van Andere Werktuigen, Rotterdam, South Holland, Netherlands. Damping device for weighing apparatus. 1,457,328; June 5.

Van Dusen, Charles A., assignor to The Toledo Standard Commutator Company, Toledo, Ohio. Commutator segment and producing the same. 1,457,801; June 5.

Van Norden, Rudolph W., San Francisco, Calif. Electromagnetic apparatus. 1,457,475; June 5.

Vance, Rice B., Detroit, Mich., assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. 1,457,411; June 5.

Vapor Car Heating Company. (See Frumveller, Joseph, assignor.)

Varley Duplex Magnet Company. (See Varley, Richard, assignor.)

Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Lockout for automatic starters. 1,457,917; June 5.

Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Stoker-controlling mechanism. 1,457,564; June 5.

Vennewitz, E. J. (See Unruh, Albert A., assignor.)

Vicars, Edward L. (See Vicars, Thomas and E. L.)

Vicars, Thomas and E. L., Earlestown, England. Biscuit or like embossing and cutting machine. 1,457,760; June 5.

Vickers, Harry H., Corona, assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. 1,457,476; June 5.

Vickers Limited. (See Dawson, A. T., and Horne, assignors.)

Vigliano, Joseph, New York, N. Y. Rotary engine. 1,457,951; June 5.

Villiger, Walter, and R. Mechau, assignors to the Firm of Carl Zeiss, Jena, Germany. Arrangement for the examination of collective optical systems. 1,457,918; June 5.

Vincent, Sidney C., Baltimore, Md. Umbrella. 1,457,679; June 5.

Vitrolite Company, The. (See Beebe, Daniel S., assignor.)

Von der Schmalz, Carl, Philadelphia, Pa. Weighting and dyeing silks. 1,457,607; June 5.

Voorhies, Felix E., Dallas, Tex. Cottonseed-linting machine. 1,457,329; June 5.

W-M-P Manufacturing Co. (See Parks, Robert D., assignor.)

Wahl, John, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Wrench. 1,457,719; June 5.

Walles, Leonard A., New Orleans, La. Self-registering scale for fishing rods. 1,458,014; June 5.

Wainwright, Frank R., Jersey City, N. J. Scale attachment. 1,458,089; June 5.

Walder & Co. (See Peyer, Emil, assignor.)

Waldron, Harold E., Highland Park, Mich. Water-heating apparatus. 1,458,090; June 5.

Wall, Myron S., Berkeley, assignor to Standard Oil Company, San Francisco, Calif. Sign. Des. 62,463; June 5.

Walther, Fritz and G., Zella-Mehlis, Germany. Automatic firearm. 1,457,477; June 5.

Walther, Georg. (See Walther, Fritz and G.)

Waltz, Foster V. (See Hapgood, Clarence H., assignor.)

Wandersleb, Ernst, assignor to the Firm of Carl Zeiss, Jena, Germany. Exposure meter. 1,457,802; June 5.

Ward, Jerome. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)

Warrick, Charles F., Detroit, Mich. Headlight lens. 1,457,565; June 5.

Wasilieff, Ivan A., Bridgeport, Conn. Clothesline bracket. 1,457,720; June 5.

Watt, Robert S., Brooklyn, N. Y. Alarm clock. 1,457,919; June 5.

Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)

Webber, Lyle K. (See Hey, E. A., Le Pere., and Webber.)

Webster, Paul W. (See Perry, R. S., Webster, and Boynton.)

Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Badge. 1,458,091; June 5.

Weiss, Virginia, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,464; June 5.

Weiss, Virginia, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 62,465; June 5.

Werner, Charles A. (See White, J. H., and Werner.)

Western Cooperage Company. (See Eastman, Watson, assignor.)

Western Electric Company. (See Dodge, William L., assignor.)

Western Electric Company. (See Kelsall, George A., assignor.)

Western Electric Company. (Se MacPherson, Hugh D., assignor.)

Western Electric Company. (See Mills, John, assignor.)

Western Tool & Manufacturing Company, The. (See Morris, Henry, assignor.)

Westinghouse Electric and Manufacturing Company. (See Morgan, David W. R., assignor.)

Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)

Westinghouse Electric and Manufacturing Company. (See Snyder, John E., assignor.)

Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. 1,457,566; June 5.

Whaley, Earl E., Tacoma, Wash. Door hanger. 1,458,015; June 5.

Wharton, Astley W., Churchville, Pa. Automobile buffer. 1,457,330; June 5.

Wharton, Astley W., Churchville, Pa. Automobile buffer. 1,457,331; June 5.

Wharton, Astley W., Churchville, Pa. Automobile buffer. 1,457,332; June 5.

Wheeler, Seth, Castleton, N. Y. Dispensing cabinet. 1,457,333; June 5.

Whitaker, William A., New York, N. Y. Flotation process. 1,457,680; June 5.

White, Almon J., San Antonio, Tex. Apparatus for separating solids from liquids. 1,457,803; June 5.

White, John H., and C. A. Werner, Berkeley, Calif. Towel rack. 1,457,644; June 5.

White, Richard W., et al. (See Ayers, Webb W., assignor.)

White, William E., Chicago, Ill. Concrete spacer. 1,457,610; June 5.

White, William E., Chicago, Ill. Hanger insert. 1,457,611; June 5.

Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. 1,457,334; June 5.

Whittaker, John A. (See Massoll, Curtis A., assignor.)

Whittingham, Richard A., Newark, assignor to Atlas Axle Company, Wilmington, Del. Motor-truck axle. 1,457,681; June 5.

Whittingham, Richard A., Newark, assignor to Atlas Axle Company, Wilmington, Del. Motor-truck axle. 1,457,682; June 5.

Whittingham, Richard A., Newark, assignor to Atlas Axle Company, Wilmington, Del. Truck wheel. 1,457,683; June 5.

Wigand, Albert, assignor to the Firm of Carl Zeiss, Halle, Germany. Contact bowl. 1,457,804; June 5.

Wigton, George H., Eureka, and S. M. Seddon, Salt Lake City, Utah. Treating silicious ores. 1,458,016; June 5.

Wilde, Jerome G. (See Zurborg, John H., assignor.)

Wilkinson, George D., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Oven thermometer. 1,457,335; June 5.

Williams, Frank E., assignor of one-third to A. L. Kelly and one-third to F. S. Kelly, Hayward, Calif. Garment supporter. 1,457,952; June 5.

Williams Gold Refining Co. (See Williams, Reginald V., assignor.)

Williams, John D., J. R. Bolton, Sulphur Springs, and F. L. Struve, Greenville, Tex. Lemon and lime squeezer. 1,457,478; June 5.

Williams, Lewis G., Corsyrhelig, Godrergraig, Wales. Pneumatic tire for vehicles. 1,457,412; June 5.

Williams, Phillip H., Fresno, Calif. Ball compressor. 1,457,866; June 5.

Williams, Ralph E., Los Angeles, Calif. Spotlamp. 1,457,645; June 5.

Williams, Reginald V., assignor to Williams Gold Refining Co., Buffalo, N. Y. Lingual bar. 1,457,867; June 5.

Williams Sealing Corporation, The. (See Hey, E. A., Le Pere, and Webber, assignors.)

Williams, Walter C. (See Kashmere, J. C., and Roberts, assignors.)

Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Magnet and dynamo-electric-machine structure. 1,458,120; June 5.

Wilson, John A., Elizabeth, assignor to Duratex Corporation, Newark, N. J. Machine for treating or processing fabrics and other goods. 1,457,413; June 5.

Wilson, John D., Jacksonville, Fla., assignor of one-half to F. H. Garner, Union, S. C. Timber-felling apparatus. 1,457,761; June 5.

Wilson, Lyman A., New York, N. Y. Water-cooled lamp. 1,457,646; June 5.

Wilson, Thomas, Indio, Calif. Vehicle frame suspension. 1,458,092; June 5.

Winell, Karl O., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake mechanism. 1,457,868; June 5.

Winkle, Solomon A. (See Winklepleck, Solomon A.)

Winklepleck, Solomon A., (now by judicial change of name Solomon A. Winkle), Santa Ana, Calif. Razor-strop container. 1,457,612; June 5.

Wipp, Henry C. A., Port Elgin, Ontario, Canada. Fish-hook. 1,457,762; June 5.

Wirebounds Patents Company. (See Koch, Henry J., assignor.)

Wiss, Ernst, Griesheim on-the-Main, assignor to the Firm Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Method of and apparatus for preventing the burning of gas-pressure-reducing valves. 1,457,869; June 5.

Wistoft, Sören, Copenhagen, Denmark. Dial for scales. 1,458,093; June 5.

Withrow, Paul C., and W. W. Lemen, Denver, Colo. Valve. 1,457,613; June 5.

Wolcott, Edson R., Los Angeles, Calif. Increasing the yield of oil wells. 1,457,479; June 5.

Wolf, Austin M., Plainfield, N. J. Liquid-feeding system. 1,457,721; June 5.

Wolf, Charles S., sr., Houston, Tex. Shoe-lace tip. 1,458,017; June 5.

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Cooling device for curved stereotype printing plates. 1,457,480; June 5.

Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)

Woodhull, Daniel E., New York, N. Y., assignor to American Bank Note Company. Making plates for printing safety tints. 1,457,806; June 5.

Woodhull, Daniel E., New York, N. Y., assignor to American Bank Note Company. Safety tint paper. 1,457,805; June 5.

Worcester, William W., Baltimore, Md. Rat trap. 1,457,953; June 5.

Wright, George D. Corporation. (See Leonardo, Bartholomew C., assignor.)

Yassenovsky, Joseph, New York, N. Y. Weather stripping. 1,458,094; June 5.

Zeiss, Firm of Carl. (See Villiger, W., and Mechau, assignor.)

Zeiss, Firm of Carl. (See Wandersleb, Ernst, assignor.)

Zeiss, Firm of Carl. (See Wigand, Albert, assignor.)

Zucker, Henry Y., Matawan, N. J., assignor to A. P. Munning & Co., New York, N. Y. Buffing wheel. 1,457,807; June 5.

Zurborg, John H., assignor of one-half to J. G. Wilde, Covington, Ky. Gas-saving and carbon-eliminating attachment for automobile gas engines. 1,457,870; June 5.

Zweigbergk, Thorsten, London, England. Electric-motor-control system. 1,457,920; June 5.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid liquor, Purifying. F. C. Atkinson. 1,457,484; June 5.
Advertisements, Apparatus for displaying. W. Mannowski. 1,457,666; June 5.
Advertising and educational purposes, Display device for. R. Padilla. 1,457,073; June 5.
Advertising device. F. R. Chester. 1,458,050; June 5.
Aeroplane construction. M. Bonslakos. 1,457,871; June 5.
Agitator. T. Mojonnier. 1,457,848; June 5.
Air brake. H. L. Cullison. 1,458,033; June 5.
Air filter. L. L. Dollinger. 1,457,351; June 5.
Aircraft. Variable-camber aerofoil for. F. B. H. Beadle. 1,457,955; June 5.
Airplane engines and the like, Means and method for starting. J. Bijur. 1,457,687; June 5.
Airscrews or propellers, Production of metal. H. Leitner. 1,457,844; June 5.
Aluminous materials, Treating. E. Moldenke. 1,457,787; June 5.
Amalgamator, Centrifugal. H. C. Taber. 1,457,560; June 5.
Amalgamator support. H. W. Richards. 1,457,635; June 5.
Ammonia, Recovery of. L. E. Doty. 1,457,877; June 5.
Amplifier. H. I. Becker. 1,457,814; June 5.
Amplifying or otherwise indicating small mechanical effects, Method or means for. E. S. Heurtley. 1,458,098; June 5.
Animal trap. A. N. Petrok. 1,457,670; June 5.
Annealing and apparatus used therein. F. Twyman. 1,457,883; June 5.
Antiskid chain. J. A. Sincell. 1,458,107; June 5.
Automobile buffer. A. W. Wharton. 1,457,330-2; June 5.
Automobile buffer attacher. G. A. Lyon. 1,457,533; June 5.
Automobile bumper. P. P. Crabill and J. Turner. 1,457,502; June 5.
Automobile chains, Fastener for. W. London. 1,458,069; June 5.
Automobile curtain. E. E. Bouchard. No. 1,457,649; June 5.
Automobile gas engines, Gas-saving and carbon-eliminating attachment for. J. H. Zurborg. 1,457,870; June 5.
Automobile gasoline gauge. W. D. Stivers. 1,457,471; June 5.
Automobile jack. J. P. Owsianek. 1,457,881; June 5.
Automobile light. M. T. Davison and C. W. Thompson. 1,458,035; June 5.
Automobile signal. J. F. Hughes. 1,457,703; June 5.
Automobile top stay strap. G. S. Avey. 1,457,685; June 5.
Automobiles and other vehicles, Suspension of. G. H. E. de Ram. 1,457,884; June 5.
Automobiles, Combined foot brake and accelerator-control mechanism for. T. V. Barton. 1,457,489; June 5.
Automobiles, Device to control the temperature of storage batteries in. W. A. Strawmyer and V. Beaman. 1,457,863; June 5.
Automobiles, Lubricating system for. G. G. Naugle. 1,457,993; June 5.
Axle, Motor-truck. R. A. Whittingham. 1,457,681-2; June 5.

Baby jumper. A. T. Reid. 1,458,077; June 5.
Badge. E. L. Weed. 1,458,091; June 5.
Bag: *See*—
Fire rescue bag.
Ball carrier, Pool-. R. M. Sherrod. 1,457,464; June 5.
Bar: *See*—
Lingual bar.
Bar-grinding machine. J. S. Lochhead. 1,457,845; June 5.
Barber's comb. A. Cornellier. 1,457,726; June 5.
Barium sulphate and sodium sulphydrate, Making precipitated. J. B. Pierce, jr. 1,457,934; June 5.
Barium sulphate, Making precipitated. J. B. Pierce, jr. 1,457,935; June 5.
Bathing suit. J. H. Rathman. 1,457,604; June 5.
Battery and bulb tester. O. Ohmart. 1,457,597; June 5.
Battery case and switch. W. H. Rector. 1,457,671; June 5.
Bearing. J. H. Smith. 1,457,555; June 5.
Bearing for bicycle crank shafts, etc., Antifriction. H. W. Batcheller. 1,457,954; June 5.

Bearing, Sealed. C. L. McCuen. 1,457,584; June 5.
Bearing, Shaft. J. I. Guetl. 1,457,831; June 5.
Bearing, Wheel. L. Cerrato. 1,457,653; June 5.
Bed, Folding automobile. C. Mandel. 1,457,984; June 5.
Bedspring fabric. C. H. Gail. 1,457,430; June 5.
Bell, Bicycle. J. R. Kidney. 1,457,705; June 5.
Binding strip, Fabric. A. Freydberg. 1,457,625; June 5.
Blade shrouding. J. E. Snyder. 1,457,404; June 5.
Block: *See*—
Building block. Grade-crossing block.
Blocks and tile, Truck for handling hollow. M. T. Straight. 1,457,639; June 5.
Blood-transfusion apparatus. M. C. Pruitt. 1,457,796; June 5.
Blue-print frame. V. P. Larsen. 1,457,530; June 5.
Board: *See*—
Fabric board. Ironing board.
Boiler attachment. G. D. Hunter. 1,457,839; June 5.
Boiler-fire-setting device. F. Schmitt. 1,457,753; June 5.
Boiler magazine front. C. C. Fulghum. 1,457,516; June 5.
Boiler plug. P. E. McIntosh and R. O'Connell. 1,457,911; June 5.
Book-fastening machines, Laying-on apparatus for. U. Bischof. 1,458,026; June 5.
Book holder. I. J. Plamondon. 1,457,458; June 5.
Boomerang thrower. C. A. Anderson. 1,457,764; June 5.
Bottle-capping machine, Semiautomatic. E. A. Hey, J. G. Le Pere, and L. K. Webber. 1,458,123; June 5.
Bottle carrier, Milk-. V. Boulia. 1,457,342; June 5.
Bottle cover, Nursing. P. Ferris. 1,458,041; June 5.
Bottle-stopper-varnishing device. P. W. Raehse. 1,457,748; June 5.
Bottles, Fluid-discharge means for. B. E. Robinson. 1,458,004; June 5.
Bottles, Safety device for. H. P. Kraft. 1,457,706; June 5.
Box machine, Wirebound-. H. J. Koch. 1,457,529; June 5.
Boxes or the like, Mold for plastic flower. W. A. Carey. 1,457,767; June 5.
Brace: *See*—
Rail brace.
Bracket: *See*—
Clothesline bracket. Rail bracket.
Lamp bracket.
Braiding machine. C. Tober. 1,457,474; June 5.
Brake: *See*—
Air brake.
Brake mechanism. K. O. Winell. 1,457,868; June 5.
Brake retainer. A. B. Myers. 145,745; June 5.
Brake-shoe spreader. E. F. Shimer and R. I. Frey. 1,458,080; June 5.
Broom head. G. Drake. 1,458,095; June 5.
Brooms and brushes, Head for. V. Adams. 1,457,414; June 5.
Brooms and similar devices, Bridle for. J. Berman. 1,457,815; June 5.
Brush-cutting machine. W. R. Bunch. 1,457,424; June 5.
Brush holder, Motor-. J. R. Cook. 1,457,896; June 5.
Brush-making machine. A. E. Silander. 1,457,398; June 5.
Brush, Shaving. W. S. Bunker. 1,457,615; June 5.
Buckle, Belt. J. Heberling. 1,457,573; June 5.
Buckle, Belt. W. M. Myers. 1,457,386; June 5.
Buffer, Resilient front. G. A. Lyon. 1,457,534; June 5.
Buffing wheel. H. L. Zucker. 1,457,807; June 5.
Building block. C. Kelly and T. B. Belvoir. 1,457,437; June 5.
Building block. F. Patee. 1,457,454; June 5.
Building construction. J. N. MacDonald. 1,457,981; June 5.
Buildings or other structures, Chimney for. J. F. Matthews. 1,457,540; June 5.
Burner: *See*—
Gas burner. Oil burner.
Burner. A. W. Morse. 1,457,849; June 5.
Bus. A. E. Hutt. 1,457,840; June 5.
Butt hook. J. F. Graham. 1,457,887; June 5.
Button and tie holder, Collar. J. A. Taylor. 1,457,324; June 5.
Buttonhole machine. H. C. Miller. 1,457,742; June 5.
Cabinet. W. Guilliaume. Des. 62,445; June 5.

Cabinet, Containing. E. C. and E. A. Newman. 1,457,744; June 5.
Cabinet, Dispensing. S. Wheeler. 1,457,333; June 5.
Calculator. W. M. Fraser. 1,458,045; June 5.
Calendar. C. L. Cook. 1,457,821; June 5.
Camera support. D. Makower. 1,457,982; June 5.
Can: *See*—
Syrup can.
Can lifter. P. D. Mareau. 1,457,379; June 5.
Can-opening wrench. T. Harding and B. Biehl, sr. 1,457,774; June 5.
Candy. E. Tyner. Des. 62,462; June 5.
Carburetor. F. R. Sunderman. 1,457,408; June 5.
Car construction. W. J. Bohan. 1,457,296; June 5.
Car-door fastener. W. Kane. 1,457,737; June 5.
Car-dumping platform. C. C. Smith. 1,457,754; June 5.
Car end. W. D. Thompson. 1,457,916; June 5.
Car-replacing device. W. A. Hubbard. 1,458,059; June 5.
Car roof. C. D. Bonsall. 1,457,421; June 5.
Car truck. G. S. Chiles. 1,457,345; June 5.
Cars and the like, Ventilating window for passenger. H. B. Trout. 1,457,949; June 5.
Cars, Bearing box for mine. W. R. Miller. 1,457,384; June 5.
Cars, Power brake for railway. A. E. Borges. 1,457,766; June 5.
Cars, Shield for side. G. W. Berger and C. Jedele. 1,457,891; June 5.
Card, Display. C. B. Kellogg. 1,457,306; June 5.
Card holder. W. F. Dinsmore. 1,457,885; June 5.
Carrier: *See*—
Ball carrier. Tire carrier.
Bottle carrier. Water carrier.
Runner carrier.
Carrier apparatus. C. L. Riley. 1,457,938; June 5.
Carton, Collapsible. W. P. Stubbs. 1,457,641; June 5.
Carton, Display. J. V. Horr. 1,457,305; June 5.
Case: *See*—
Sewing case. Vanity case.
Casing and tubing hook. W. C. Bailey. 1,457,648; June 5.
Casket handle. E. R. Sargent. 1,457,859; June 5.
Caskets, Illuminating device for burial. D. E. Brown. 1,457,650; June 5.
Caster, Adjustable. J. Carlson. 1,457,617; June 5.
Casting ingots and seal for ingot molds. J. R. Adams. 1,457,763; June 5.
Casting machine, Centrifugal. J. D. Hammond. 1,457,834; June 5.
Castings, Mold for making metal. J. E. Goens. 1,457,362; June 5.
Ceiling-board support. J. Kubovcik. 1,457,633; June 5.
Chain. E. E. Garrett. 1,458,096; June 5.
Chain hook. I. L. Thiel. 1,458,086; June 5.
Check lock. W. J. Connell. 1,457,348; June 5.
Chimney. C. A. Kidd. 1,457,739; June 5.
Chopper. A. Lazarus. 1,457,374; June 5.
Chuck. I. T. Nedland. 1,457,994; June 5.
Cider mill. L. E. Smith. 1,457,755; June 5.
Cigar bunches, Machine for making. A. Caraballo. 1,457,724; June 5.
Cigar-making machine. J. Corneils. 1,457,876; June 5.
Cigar or cigarette holder. G. B. Joerger. 1,457,577; June 5.
Cinematographic film. D. F. Comstock. 1,457,500; June 5.
Circuit closer, Thermostatic. A. Ludi. 1,457,376; June 5.
Circuit closer, Thermostatic. J. C. F. Roquette. 1,457,939; June 5.
Circuits, Balancing. H. A. Affel. 1,457,336; June 5.
Clamp: *See*—
Clothesline clamp.
Cleaner: *See*—
Comb cleaner. Fruit cleaner.
Clock. E. M. Jones. Des. 62,452; June 5.
Clock, Alarm. R. S. Watt. 1,457,919; June 5.
Clothes stick. W. W. Crocker. 1,457,727; June 5.
Clothes wringer. T. W. Behan. 1,457,419; June 5.
Clothesline bracket. I. A. Wasilieff. 1,457,720; June 5.
Clothesline clamp. P. Jenonis. 1,457,576; June 5.
Clothespin. W. O. Gadd. 1,457,969; June 5.
Coal apparatus, Powdered-. A. J. Grindle. 1,457,521-2; June 5.
Coal box. W. E. Benson. 1,458,024; June 5.
Coaling device. E. F. Siptroth. 1,457,400; June 5.
Coat adjuster. E. P. Le Compte. 1,458,066; June 5.
Coffeepot, Drip. D. G. Sell. 1457,317; June 5.
Coils, System of connections for multiphase choking. A. Gaudenzi. 1,457,359; June 5.
Coin-controlled dispensing apparatus. W. Cohen. 1,457,300; June 5.
Coin-controlled machines, Coin-testing mechanism for. A. D. Grover. 1,457,699; June 5.
Coke-quenching process. A. Moetteli. 1,457,713; June 5.
Collapsible stand. W. P. Stubbs. 1,457,640; June 5.
Comb: *See*—
Barber's comb.
Comb cleaner. A. O. Alsager. 1,458,018; June 5.
Comb cleaner. J. Stettner. 1,457,757; June 5.
Combination frame. E. L. Schumacher. 1,457,608; June 5.
Commutator segment and producing same. C. A. Van Dusen. 1,457,801; June 5.
Composition of matter. R. Luckenbach. 1,457,708; June 5.
Compressor. E. T. Ford. 1,457,696; June 5.
Compressor, Ball. P. H. Williams. 1,457,806; June 5.
Compressor, Centrifugal. D. A. Maclean. 1,457,536; June 5.
Computing machine. B. C. Stickney. 1,458,110; June 5.
Computing machine. R. B. Vance. 1,457,411; June 5.
Computing machine. H. H. Vickers. 1,457,476; June 5.
Concrete buildings, Erection of. R. H. Aiken. 1,457,684; June 5.
Concrete form. W. J. Pedersen. 1,457,999; June 5.
Concrete, Mold for tiles or blocks of. M. Moore. 1,457,991; June 5.
Concrete, Protecting reenforcement in. R. G. Osborne. 1,457,598; June 5.
Concrete-road machine. E. G. Carr. 1,457,299; June 5.
Concrete spacer. W. E. White. 1,457,610; June 5.
Condenser. L. D. McEwen. 1,457,847; June 5.
Contact bowl. A. Wigand. 1,457,804; June 5.
Container. H. M. Nichols. 1,457,790; June 5.
Container cap. P. E. Body. 1,458,027; June 5.
Control or other mechanism, Operating handle for. R. J. C. Tampier. 1,458,013; June 5.
Conveyer system. G. H. Hallock, G. F. Frederick, and B. H. Purcell. 1,457,364; June 5.
Conveying and spacing articles, Apparatus for. C. H. Dreher. 1,457,352; June 5.
Cooking utensil. H. J. Daniel. 1,457,654; June 5.
Core-making machine. O. Kylin. 1,457,439; June 5.
Corn popper. R. D. Parks. 1,457,854; June 5.
Corset construction. J. L. Alberts. 1,457,482; June 5.
Cotton opener. J. T. Hall. 1,457,832; June 5.
Cottonseed linting machine. F. E. Voorhies. 1,457,329; June 5.
Coupling connection and noncorrosive coating therefor. B. E. Taylor. 1,457,561; June 5.
Cow-tail holder. C. E. Stockham. 1,457,631; June 5.
Crawfish destroyer. B. H. Strong. 1,457,321; June 5.
Cream whipper. C. Eliopulos. 1,457,622; June 5.
Crosstie, Metal. C. L. Kenney and S. M. Casterline. 1,457,704; June 5.
Cue tip. J. L. Dorschel. 1,457,729; June 5.
Cups, Coin-controlled apparatus for dispensing. D. J. Butterfield. 1,457,616; June 5.
Curling machine. J. O. Richard. 1,457,549; June 5.
Current rectifier. C. J. Gardeen. 1,457,902; June 5.
Cutlery articles, Handle for. J. A. Schiehr. 1,457,606; June 5.
Cutting implement. A. Urbanik. 1,457,643; June 5.
Cutting overshot. J. A. Plante. 1,458,118; June 5.
Decoy. E. Newman. 1,457,388; June 5.
Dental and other uses and making same, Molding substance for. R. H. Jefferies. 1,457,370; June 5.
Dental articulator. G. S. Monson. 1,457,385; June 5.
Derrick. S. Shafer, jr. 1,457,397; June 5.
Desiccator. E. D. Arian. 1,457,483; June 5.
Direction indicator. B. Bush. 1,457,723; June 5.
Disappearing table. E. O. Roberts. 1,457,751; June 5.
Disinfecting, insecticidal, and fungicidal composition. H. Carstens and C. Hansen. 1,457,652; June 5.
Disk scraper and fender. F. S. Britten. 1,457,960; June 5.
Disk wheel. A. J. Petrie. 1,457,456; June 5.
Dispensing apparatus. A. R. Powell and V. H. Futch. 1,458,000; June 5.
Display stand. E. C. Morgan. 1,457,990; June 5.
Door hanger. E. E. Whaley. 1,458,015; June 5.
Door opener, Garage-. A. A. Unruh. 1,457,642; June 5.
Door-operating device, Crane. F. W. Heisler. 1,457,907; June 5.
Doors, Spring for. C. Montagna. 1,457,714; June 5.
Draft equalizer. V. J. and A. T. Tichota. 1,457,472; June 5.
Drawing roll. P. A. Murphy. 1,457,453; June 5.
Drawing stand. H. C. Hinrichs. 1,457,889; June 5.
Drill: *See*—
Spindle drill.
Drill shank. J. J. Coffey. 1,457,499; June 5.
Drums, Method and apparatus for shaping and trimming brake. H. W. Kranz. 1,457,579; June 5.
Drying support for articles. L. McCaleb. 1,457,444; June 5.
Dyeing. B. C. Leonardi. 1,457,581; June 5.
Dyeing, Process and machine for continuous. H. Metcalfe. 1,457,741; June 5.
Educational device. T. M. Smith. 1,457,468; June 5.
Elastic wheel. C. Reuse. 1,457,396; June 5.
Electric furnace. I. R. Valentine. 1,457,718; June 5.
Electric machine, Dynamo-. A. J. Brown. 1,458,121; June 5.
Electric machine, Dynamo-. A. H. Midgley. 1,457,381; June 5.
Electric resistances, Method and apparatus for measuring. M. Coppée. 1,457,923; June 5.
Electrically-vibrated screen. T. J. Sturtevant. 1,458,111; June 5.
Electromagnetic apparatus. G. Fussner. 1,457,519; June 5.
Electromagnetic apparatus. R. W. Van Norden. 1,457,475; June 5.
Elevator: *See*—
Fruit elevator.
Elevator. J. G. Cornell. 1,458,032; June 5.

Elevator door. B. Wexler. 1,457,566; June 5.
Embossing and cutting machine, Biscuit or like. T. and E. L. Vicars. 1,457,760; June 5.
Emery wheels, Dressing tool for. H. Morris. 1,457,452; June 5.
Engine: *See*—
Internal-combustion engine. Rotary engine.
Engines, Auxiliary air-inlet device for internal-combustion. C. N. Snagg. 1,457,403; June 5.
Engines, Cooling system for internal-combustion. C. R. Short. 1,457,944; June 5.
Engines, Device for operating upon the cards of carding. J. J. Smith. 1,457,467; June 5.
Engines, Fuel-injecting device for internal-combustion. K. J. E. Hesselman. 1,457,701; June 5.
Engines, Mixing device for internal-combustion. M. S. Monks. 1,457,989; June 5.
Engines, Starter for internal-combustion. E. P. Sommers. 1,457,946; June 5.
Engraver's transferring device. E. B. Steele. 1,457,469; June 5.
Envelope moistener. A. J. Schaub, sr. 1,457,605; June 5.
Eradicator, Grass. S. C. Nelson. 1,457,996; June 5.
Eraser. F. E. Cardy. 1,457,497; June 5.
Excavating device. P. Neary. 1,457,594; June 5.
Explosive. C. J. S. Lundgaard. 1,457,709; June 5.
Exposure meter. E. Wandersleb. 1,457,802; June 5.
Extracting device. C. W. Potts. 1,458,076; June 5.
Fabric: *See*—
Bedspring fabric. Tire fabric.
Fabric board. S. S. Lewis. 1,457,740; June 5.
Fabrics and other goods, Machine for treating or processing. J. A. Wilson. 1,457,413; June 5.
Fabrics, Composition for removing rust from. A. C. Shaver. 1,457,609; June 5.
Fare system, Zone. C. R. Barnes. 1,457,488; June 5.
Feed mixer and dispenser, Stock-. H. Hoppes. 1,458,058; June 5.
Feed-mixing machine. M. F. Thatcher. 1,457,325; June 5.
Felt, Producing polo. D. L. Davis. 1,457,769; June 5.
Fibrous materials, Process of and apparatus for cooking. J. D. Tompkins. 1,457,326; June 5.
File, Cotton. D. P. Skelton. 1,457,638; June 5.
Filing equipment. J. T. Quigley. 1,458,112; June 5.
Filler equipment. R. W. Sexton. 1,458,008; June 5.
Filler form. R. W. Sexton. 1,458,008; June 5.
Filler tube. L. Kessler. 1,457,976; June 5.
Filtration chamber. J. W. Flower. 1,457,514; June 5.
Fire rescue bag. H. E. Hodgson. 1,457,304; June 5.
Firearm. J. M. Browning. 1,457,961; June 5.
Firearm, Automatic. F. and G. Walther. 1,457,477; June 5.
Fishgig. I. E. Malone. 1,457,983; June 5.
Fishhook. F. Kessel. 1,457,373; June 5.
Fishhook. H. C. A. Wipo. 1,457,762; June 5.
Fishhook, Detachable. C. A. Runkel. 1,457,550; June 5.
Fishing device. H. Smith. 1,457,401; June 5.
Fishing net. J. K. Dukas. 1,457,886; June 5.
Fishing rod. W. F. Hollister. 1,458,057; June 5.
Flatiron, Electrically-heated. R. B. Older. 1,457,792; June 5.
Floor chime. A. C. Gilbert. 1,457,360; June 5.
Flotation process. W. A. Whitaker. 1,457,680; June 5.
Fluid substances, Device for spraying hot. M. H. Neri. 1,457,634; June 5.
Fluid-translating device. H. F. Schmidt. 1,457,799; June 5.
Fly shooter. B. Kennedy and L. Saiger. 1,457,674; June 5.
Folding table. S. M. Coggins. 1,457,618; June 5.
Frame: *See*—
Blue-print frame. Spinning frame.
Combination frame. Stamp frame.
Printing frame. Trial frame.
Friction governing device. M. L. Norris. 1,457,745; June 5.
Friction wheel. W. L. Isbills. 1,457,524–5; June 5.
Fruit cleaner. F. Stebler. 1,457,861; June 5.
Fruit elevator. W. P. Thomas. 1,457,562; June 5.
Fuel, Making. W. L. McLaughlin. 1,458,106; June 5.
Fulcrum, Reversible. L. L. Whitney. 1,457,334; June 5.
Furnace: *See*—
Electric furnace. Permeameter furnace.
Melting furnace.
Furnace. M. Liptak. 1,457,443; June 5.
Furnace. H. E. Smyth. 1,457,556–7; June 5.
Furnace arch. M. Liptak. 1,457,442; June 5.
Furniture, Combination. V. Lewandoski. 1,457,582; June 5.
Game, Race. A. B. Fouts. 1,457,901; June 5.
Game table. C. Hine. Des. 62,448–50; June 5.
Garment hanger. J. L. Sommer. 1,458,113–14; June 5
Garment supporter. F. E. Williams. 1,457,952; June 5.
Garment, Ventilated sanitary. J. Stein. 1,458,082; June 5.
Gas burner. W. E. Hancock. 1,457,833; June 5.
Gas burner. J. E. Kennedy. 1,457,371; June 5.
Gas, etc., Recovery of gasoline from natural. E. S. Merriam. 1,457,786; June 5.
Gas heater. G. F. Schmidt. 1,457,553; June 5.
Gas jet. L. F. Chaney. 1,458,030; June 5.
Gas meter. H. H. Sprague. 1,458,010–11; June 5.
Gate fastener. C. P. Ruppe. 1,458,079; June 5.
Gauge: *See*—
Automobile gasoline gauge.
Gear, Speed-change. E. W. Jackson. 1,457,526; June 5.
Gear, Transmission. S. A. Smith. 1,457,945; June 5.
Gears, etc., from their shafts, Tool for pulling. A. A. Johnson. 1,457,841; June 5.
Gelatin and glue, Purifying. C. R. Smith. 1,457,466; June 5.
Glass, Runway for. H. H. Buggie. 1,457,495; June 5.
Glass-washing machine. F. T. Burnham. 1,458,028; June 5.
Glass while in a plastic state, Tool for cutting. D. S. Beebe. 1,457,491; June 5.
Golf-club shaft. H. I. Jordan. 1,457,528; June 5.
Golf players, Arm lock for. J. M. MacDonald. 1,457,710; June 5.
Grade-crossing block, Automatic. W. L. Griffin. 1,458,051; June 5.
Grain, Frame for stacking. S. W. Priebe. 1,457,936; June 5.
Grain grader and cleaner. A. E. Frommel. 1,457,734; June 5.
Gramophone repeating device. A. E. Fisher. 1,457,354; June 5.
Grate. G. A. MacKenzie. 1,457,377; June 5.
Grate. J. A. Stackhouse. 1,458,012; June 5.
Grate, Roller. C. C. Fulghum. 1,457,517; June 5.
Grate, Rocking and dumping. C. E. Babbitt. 1,457,416; June 5.
Grease, Means for distributing lubricating. W. Metzger. 1,457,380; June 5.
Grinding mill. J. S. Bartley. 1,457,487; June 5.
Gun, Grease. C. R. Miller. 1,457,988; June 5.
Guns, Turret mounting for heavy. A. T. Dawson and J. Horne. 1,457,924; June 5.
Hair curler. W. A. Gill. 1,457,698; June 5.
Hair curler. W. C. Gruss. 1,458,052; June 5.
Hair waver. J. A. Hartvig. 1,457,836; June 5.
Hand rest. C. A. Booker. 1,457,958; June 5.
Handle: *See*—
Casket handle.
Handle and switch, Motor. O. P. Erhardt. 1,457,967; June 5.
Handle and the like, Tool. E. C. Guthard. 1,457,570; June 5.
Hanger: *See*—
Door hanger. Laundry hanger.
Garment hanger.
Hanger insert. W. E. White. 1,457,611; June 5.
Harness-loop reenforcement. P. Radle. 1,457,602; June 5.
Harness rosette. J. C. Harpham. 1,457,659; June 5.
Harvester. F. G. Blessen. 1,457,341; June 5.
Harvester, Head-topping ensilage. I. H. Erb. 1,457,827; June 5.
Harvester, Juice-extracting ensilage. I. H. Erb. 1,457,828; June 5.
Harvester, Peanut. W. W. Ford. 1,458,044; June 5.
Harvesters, Grain-shocking attachment for. D. W. Glie. 1,457,627; June 5.
Harvesting sugar beets, Knife control in machines for. L. Erhardt. 1,457,829; June 5.
Hatchet, Folding. C. W. Nelems. 1,457,930; June 5.
Headlight. L. A. W. Johnson. 1,457,630; June 5.
Headlight lens. W. B. McMasters. 1,457,980; June 5.
Headlight lens. C. F. Warrick. 1,457,565; June 5.
Headlight, Movable. M. B. Strout. 1,458,084; June 5.
Heater: *See*—
Gas heater. Water heater.
Heaters and lamps, Counterbalancing and oscillating device for electric. W. A. Brown. 1,457,874; June 5.
Heel-attaching device. J. F. Higgins. 1,457,435; June 5.
High-capacity spring. J. F. O'Connor. 1,457,931; June 5.
Hoist, Cupalo-charging. W. H. Morgan. 1,457,450; June 5.
Hoists, Brake and clutch operating mechanism for. W. E. Hale. 1,457,973; June 5.
Hook: *See*—
Butt hook. Watch-bracelet hook.
Chain hook.
Hose and making same, Nonexpansive. M. Loughead. 1,457,781; June 5.
Hub, Free-wheel. H. Ludwig. 1,457,311; June 5.
Hydraulic motor. F. E. Ebel. 1,457,927; June 5.
Hydrocarbon motor. C. R. Short. 1,457,943; June 5.
Hydrocarbon, Nitrating aromatic. S. P. Miller and J. R. Hess. 1,457,543; June 5.
Ice-cream-cutting machine. W. H. Fox. 1,457,624; June 5.
Ignition systems, Circuit breaker for. A. L. Riker. 1,457,462; June 5.
Ignition systems, Current regulator for. S. D. Livingston. 1,457,310; June 5.
Index, Consolidated tariff. C. B. Guthrie. 1,457,363; June 5.
Indicator: *See*—
Direction indicator. Street indicator.
Station indicator.
Indicating means. C. R. Cameron. 1,457,426; June 5.
Illumination, Method and apparatus for. W. W. Ayres. 1,457,485; June 5.
Insect-destroying device. M. Nakamura. 1,458,071; June 5.

Insect exterminator. W. C. and C. P. Long and J. M. Stephens. 1,458,070; June 5.
Instrument, Combination. D. Garlatti. 1,458,046; June 5.
Internal-combustion engine. S. I. Fekete and S. G. Baits. 1,457,695; June 5.
Internal-combustion engine. A. H. Sproule. 1,457,322; June 5.
Ironing board. F. Bania. 1,457,661; June 5.
Jack: *See*—
Automobile jack. Screw jack.
Jack and tire inflater, Combination pneumatic. W. B. Lucas. 1,457,665; June 5.
Jamb unit, Adjustable. C. F. Biele. 1,458,025; June 5.
Jars, Closure for fruit and other wide-mouthed. F. E. Baldwin. 1,457,418; June 5.
Jet augmenter or ejector. J. F. Kirgan. 1,457,777; June 5.
Jet condenser, Large. D. W. R. Morgan. 1,457,788; June 5.
Joint: *See*—
Rail joint.
Kettles, Mounting for fusion. O. S. Sleeper. 1,458,108; June 5.
Key fastener. E. H. Larkins. 1,458,065; June 5.
Keyhole guard. S. J. Hoff. 1,457,702; June 5.
Kiln and burner therefor. E. M. Bassler. 1,457,339; June 5.
Knife, Detachable-blade. H. Brix. 1,458,104; June 5.
Knitted glove and making same. G. P. Bosworth. 1,458,102; June 5.
Knitting machines, Sinker or web-holder cam mechanism for. G. P. Bosworth. 1,458,103; June 5.
Knitting machines, Web-holder cam for. A. Gagné. 1,457,903; June 5.
Lace. J. G. Currie. Des. 62,441–2; June 5.
Lace. H. L. Stern. Des. 62,461; June 5.
Lace, Shoe. L. F. Unnold. 1,458,088; June 5.
Lace tip, Shoe. C. S. Wolf, sr. 1,458,017; June 5.
Lamp bracket. M. Maibrunn. 1,457,587; June 5.
Lamp, Incandescent electric. C. E. Leece. 1,457,440; June 5.
Lamp, Water-cooled. L. A. Wilson. 1,457,646; June 5.
Lamps and the like, Support for. G. Graff. Des. 62,446; June 5.
Lamps, heaters, and blowers, Heat-focusing device for combined electric. W. A. Brown. 1,457,873; June 5.
Land-leveling device. L. D. Hopfield. 1,457,878; June 5.
Latch. C. A. Massoll. Re15,619; June 5.
Latch, Door or gate. A. B. Chambers. 1,457,962; June 5.
Latch, Wagon-dump-body. H. G. Frazier. 1,457,357; June 5.
Lath boards, Machine for making. S. M. Ford. 1,457,664; June 5.
Lathes, Work-controlling attachment for. H. N. Hayford. 1,457,837; June 5.
Laundry-bag support. E. R. Knopf. 1,458,100; June 5.
Laundry hanger. W. Benezalski. 1,457,956; June 5.
Legging. P. M. Pruet. 1,457,601; June 5.
Lemon and lime squeezer. J. D. Williams, J. R. Bolton, and F. L. Struve. 1,457,478; June 5.
Lens, Bifocal eyeglass. W. F. Fisher. 1,457,355; June 5.
Lens, Duplex. A. W. Pougher. 1,457,393; June 5.
Lenses and the like, Machinery for beveling the edges of glass. S. Richardson. 1,457,855; June 5.
Life preserver. T. Aoki. 1,458,019; June 5.
Lifter: *See*—
Can lifter.
Lifting device. F. Fahsbender. 1,457,657; June 5.
Light: *See*—
Automobile light.
Light and direction indicator, Combustion tail. A. E. Tinker. 1,457,473; June 5.
Lighting fixtures, Stamping for. M. R. Horovitz. Des. 62,451; June 5.
Lingual bar. R. V. Williams. 1,457,867; June 5.
Liquid containers, Displacement element for. L. E. Baker. 1,457,811; June 5.
Liquid-feed system. C. L. Stokes. 1,457,758; June 5.
Liquid-feeding system. A. M. Wolf. 1,457,721; June 5.
Liquid fuel, Gasifying burner for. E. Menger. 1,457,542; June 5.
Loading material, Method of and apparatus for. F. S. Follansbee. 1,458,043; June 5.
Lock: *See*—
Check lock.
Lock. J. Mann. 1,457,985; June 5.
Lock washer. E. W. Murray. 1,457,592; June 5.
Locomotive tenders, Water-supply device for. C. E. Rice. 1,457,715; June 5.
Logging hooks, Safety lock for. O. Mickelson. 1,457,987; June 5.
Looms, Device for releasably locking the loose reeds of power. R. Derrer. 1,458,036; June 5.
Looms, Locking device for the take-up mechanism of. S. Came. 1,457,651; June 5.
Lure, Casting. M. S. Dunkelberger. 1,457,926; June 5.
Machinery, Apparatus for balancing. F. Lawaczeck and H. Heymann. 1,457,629; June 5.
Magnet and dynamo-electric-machine structure. R. B. Williamson. 1,458,120; June 5.
Magneto. W. E. Schwarzmann. 1,457,463; June 5.
Mail-bag catcher. W. F. Bechtel. 1,458,022; June 5.
Mailing tube. R. T. Dodge. 1,457,770; June 5.
Making sulphuric acid and apparatus therefor. F. G. Stantial. 1,457,676; June 5.
Mangers, Division for animal. A. H. Neller. 1,457,850; June 5.
Manifolding machine, Flat-bed. J. Q. Sherman. 1,457,940; June 5.
Manure loader. F. E. Null. 1,457,668; June 5.
Measuring and indicating apparatus. H. Brewer. Re15,617; June 5.
Measuring apparatus, Depth and specific-gravity. C. W. Stancliffe. 1,457,406; June 5.
Melting furnace, Gas-fired. H. O. Loebell. 1,457,780; June 5.
Meter: *See*—
Exposure meter. Time slot meter.
Gas meter. Water meter.
Motor meter.
Metal articles, Feed mechanism for small. V. Puc. 1,457,459; June 5.
Metal polish. W. A. Ruddell. 1,457,857; June 5.
Metal sheets, Process of and apparatus for renovating coated. C. F. H. Bohnhardt. 1,457,688; June 5.
Metal surfacing or abrading machine. S. H. Leavenworth. 1,457,979; June 5.
Mill: *See*—
Cider mill. Roller mill.
Grinding mill.
Mills, Feeder for. J. W. Barwell, J. Ward, N. Nelson, J. Hingher, W. E. Booth, and W. L. Blows. 1,457,490; June 5.
Mine alarm instrument. C. W. Hurl. 1,458,060; June 5.
Mold. M. J. Davin. 1,458,034; June 5.
Mold mixture. V. Lougheed. 1,457,375; June 5.
Mop holder. C. E. Koester, jr. 1,458,063; June 5.
Mop wringer. J. D. Garvey. 1,457,568; June 5.
Motor: *See*—
Hydraulic motor. Hydrocarbon motor.
Motor-control system, Electric-. T. Zweigbergk. 1,457,920; June 5.
Motor meter. H. A. Adams. 1,457,481; June 5.
Motor suspension. O. E. Barthel. 1,457,486; June 5.
Mowers, Attachment for lawn. H. F. W. Kohlbach. 1,457,309; June 5.
Muffler. G. W. Allen. 1,457,809; June 5.
Nail-driving device. C. Schmidt. 1,457,552; June 5.
Nail puller. H. A. Clifford. 1,457,346; June 5.
Necktie and handkerchief holder. H. Gasbyesva. Des. 62,444; June 5.
Nozzle. M. B. McCune. 1,457,535; June 5.
Numbering machines, Ink-pad mechanism for. C. Spielman. 1,457,756; June 5.
Nut, Lock. O. C. Johnson. 1,457,736; June 5.
Nut, Lock. W. C. Peters. 1,457,455; June 5.
Nut, Lock. J. H. Rast. 1,457,749; June 5.
Nuts, Making flanged. G. Melling. 1,457,914; June 5.
Oil burner. J. C. Misner. 1,457,590; June 5.
Oil regulator. A. T. Garden. 1,457,520; June 5.
Oils and fats to harden them, Producing catalytic material for hydrogenating unsaturated. J. P. Harris. 1,457,835; June 5.
Optical systems, Arrangement for the examination of collective. W. Villiger and R. Mechau. 1,457,918; June 5.
Ores, Treating silicious. G. H. Wigton and S. M. Seddon. 1,458,016; June 5.
Ornamental and supporting article. F. Damiano. 1,457,350; June 5.
Oven, Portable. C. H. Reddig and H. A. Barrett. 1,458,002; June 5.
Packaged goods, Apparatus for treating. E. C. Northrup and E. H. Specht. 1,457,852; June 5.
Packing, Metallic. J. H. Renshaw. 1,457,461; June 5.
Paper, Dentist's articulating. F. W. Keith. 1,458,062; June 5.
Paper for towels, toilet paper, etc., Machine for and process of producing rolls of. W. S. Crandell. 1,457,822; June 5.
Paper-interfolding machine. W. T. Lazar. 1,457,978; June 5.
Paper-making and other machines, Steam drying system for. H. Llebeck. 1,457,779; June 5.
Paper-making machine. W. S. Crandell. 1,457,349; June 5.
Paper, Manufacture of wall. H. C. Jarvis. 1,457,369; June 5.
Paper or cardboard pulps, Apparatus for comminuting, refining, and triturating. K. A. Thorsen. 1,457,865; June 5.
Paper pulp, Making. B. S. Summers. 1,457,915; June 5.
Paper pulp processes, Cooler for reclaimed liquor and gas in. G. F. Shevlin. 1,457,941; June 5.
Paper, Safety tint. D. E. Woodhull. 1,457,805; June 5.
Patch. W. G. Handly. 1,458,053; June 5.
Pen, Fountain. L. Badois. 1,457,765; June 5.
Pen, Stylographic fountain. N. H. Coates. 1,457,875; June 5.
Permeameter furnace. G. A. Kelsall. 1,457,438; June 5.
Permanent way. M. Matthael. 1,457,539; June 5.
Petroleum and petroleum distillates, Desulphurizing. A. E. Dunstan and F. B. Thole. 1,457,656; June 5.
Pharmaceutical products. W. Schoeller. 1,457,675; June 5.
Phonograph. R. W. Morrison. 1,457,313; June 5.

Phonograph repeating device. J. A. Eltutis. 1,457,428; June 5.
Phonograph-tone rectifier and amplifier. C. A. Tremain. 1,457,678; June 5.
Phosgene, Making. D. B. Bradner. 1,457,493; June 5.
Photographic-film holder. H. C. Strieker. 1,457,864; June 5.
Photographic prints, Dryer for. W. H. Morgan. 1,457,451; June 5.
Photographic-shutter-operating device. E. E. Underwood. 1,457,563; June 5.
Picture machine, Moving-. F. and H. Seufert. 1,457,554; June 5.
Picture machines, Automatic fire shutter for moving-. W. Ellwood. 1,457,510; June 5.
Picture-projector attachment. F. J. McGettigan. 1,457,782; June 5.
Pig bristles, Machine for setting and mixing. D. Magny. 1,457,783; June 5.
Pin: *See*—
Safety pin
Pin, brooch, bracelet, finger ring, or similar article. G. Basthelm. Des. 62,439; June 5.
Pipe-cutting machines, Safety device for. H. Morrison. 1,457,992; June 5.
Pipe protector. S. Bado. 1,457,295; June 5.
Piston ring. C. Ohler. 1,458,072; June 5.
Piston-ring tool. M. S. Linton. 1,458,067; June 5.
Piston rings, Mechanism for testing. W. C. Peterson. 1,457,933; June 5.
Pitman. E. W. Hansen. 1,457,434; June 5.
Plaiting apparatus. M. Noel. 1,457,997; June 5.
Planter attachment, Checkrow-corn-. T. Higgins. 1,428,055; June 5.
Plugs, Making. F. J. Runner. 1,458,006; June 5.
Pocket. A. C. Barrow. 1,457,813; June 5.
Pocket, Patch. A. C. Barrow. 1,457,812; June 5.
Poke, Animal. A. J. Reisenauer. 1,457,672; June 5.
Potato-bug and aphis exterminator. F. W. Bender. 1,457,420; June 5.
Potato grader. M. B. Tabor. 1,458,085; June 5.
Powder puff. J. Schmid. 1,457,798; June 5.
Power mechanism, Electric. P. F. Loichot. 1,457,910; June 5.
Power transmission, Flexible. H. J. Murray and W. S. Rugg. 1,457,789; June 5.
Power-transmission device. W. H. Douglas. 1,457,694; June 5.
Press: *See*—
Printing press.
Presses, Impression throw off and on device for traveling-cylinder. P. F. Cox. 1,457,501; June 5.
Priming device. W. S. Killam. 1,457,308; June 5.
Printing frame. B. J. Koch. 1,457,578; June 5.
Printing plates, Cooling device for curved stereotype. H. A. W. Wood. 1,457,480; June 5.
Printing press. R. S. Tyler. 1,457,717; June 5.
Printing safety tints, Making plates for. D. E. Woodhull. 1,457,806; June 5.
Puller: *See*—
Nail puller.
Pulverizing machine. C. A. Dorn. 1,457,693; June 5.
Pump. S. E. Huntting. 1,457,368; June 5.
Pump. T. Namura. 1,457,546; June 5.
Pump, Condensing. O. H. Castle. 1,457,427; June 5.
Pump, Sirup. J. B. Fletcher. 1,458,042; June 5.
Pumps, Air-purifying device for motor-driven tire. D. Rohrer. 1,458,005; June 5.
Pumpkin and like material, Apparatus for processing. L. A. Babcock. 1,457,417; June 5.
Punching and forming press, Combined. W. H. Betts. 1,457,816; June 5.
Puzzle. W. H. Miller. 1,457,383; June 5.
Quilling machine. G. Adsit. 1,457,294; June 5.
Rack: *See*—
Towel rack.
Radio receiving circuits. J. Mills. 1,457,447; June 5.
Rail brace. D. B. McLain and E. M. Tatum. 1,457,586; June 5.
Rail bracket, Farrowing-. D. E. Shrauger. 1,457,636; June 5.
Rail joint. F. E. Harder. 1,457,302; June 5.
Rail joint. A. Powell and C. B. Neal. 1,457,746; June 5.
Rails, Stanchion for supporting barrier. J. J. Fairbairn. 1,457,900; June 5.
Railway frog. J. Kershenstein. 1,457,632; June 5.
Railway signal. A. O. Russell. 1,457,673; June 5.
Railway tie. J. MacMartin. 1,457,537; June 5.
Railway vehicles, Hub liner for. J. G. Blunt. 1,457,894; June 5.
Range. E. C. Beers. 1,457,686; June 5.
Rat trap. W. W. Worcester. 1,457,953; June 5.
Razor-strop container. S. A. Winkiepleck. 1,457,612; June 5.
Reading machine. B. A. Fiske. 1,457,429; June 5.
Receptacle and agitator therefor. R. Guthridge. 1,457,431; June 5.
Receptacle for holding powdered material. A. Lindenmayer. 1,457,879; June 5.
Receptacle, Packing. H. E. Butler. 1,457,496; June 5.
Record appliance. H. Doty. 1,457,964; June 5.
Record-filing device. T. Spence. 1,458,109; June 5.
Refacing tool. E. O. Coats and R. J. Bartholomew. 1,457,725; June 5.
Refrigerator, Household. A. L. Uberto. 1,457,950; June 5.
Registering machines, Printing mechanism for. H. Plasschaert. 1,457,391; June 5.
Regulator: *See*—
Oil regulator. Voltage regulator.
Tone regulator.
Rerailer. E. G. Jackson. 1,458,061; June 5.
Resilient wheel. G. C. Atkinson. 1,458,020; June 5.
Reversing mechanism. O. J. Marshick and E. L. Crosby. 1,457,312; June 5.
Rheostat. S. R. Hipple. 1,458,105; June 5.
Rifle demonstrator. J. G. P. Stokes. 1,457,407; June 5.
Rim, Demountable. M. Seed. 1,458,007; June 5.
Ring: *See*—
Piston ring.
Road-grading machine. C. K. Stockland. 1,457,862; June 5.
Road material, Spreader for. J. A. Johnston. 1,457,928; June 5.
Rod: *See*—
Fishing rod.
Roller mill. F. E. Marcy. Re16,620–2; June 5.
Rotary engine. J. Vigliano. 1,457,951; June 5.
Rubber mixer or like machine. D. R. Bowen. 1,457,343; June 5.
Rug reenforcement. O. Brunka. 1,457,921; June 5.
Runner carrier. N. O. Nelson. 1,457,595; June 5.
Sack, Pick. J. T. Campbell. 1,457,344; June 5.
Safety pin. J. H. Cargill. 1,458,029; June 5.
Sample container. F. C. Schlitzer. 1,457,551; June 5.
Sample-taking advice. W. J. Loofs and C. C. Cox. 1,457,583; June 5.
Sanitary leather-making device. J. Campanella. 1,457,985; June 5.
Sash center. C. D. Tabor. 1,457,323; June 5.
Sash lock and holder. M. A. Miller. 1,457,382; June 5.
Saw filing and setting machine, Automatic band-. J. M. Majewski, jr. 1,457,588; June 5.
Saw-filing device. F. H. Masow. 1,457,880; June 5.
Saw guide. D. W. Parker. 1,457,600; June 5.
Saxaphone mouthpieces, Mold for forming. A. P. Graham. 1,458,048; June 5.
Scale attachment. F. R. Wainwright. 1,458,089; June 5.
Scale, Equalized platform automatic. W. K. Harris. 1,457,628; June 5.
Scale for fishing rods, Self-registering. L. A. Wallen. 1,458,014; June 5.
Scales, Dial for. S. Wistoft. 1,458,093; June 5.
Screen: *See*—
Electrically-vibrated screen.
Screen. J. N. Hill. 1,456,056; June 5.
Screening apparatus. P. J. Alwart. 1,457,810; June 5.
Screw jack. P. J. Devan. 1,457,825; June 5.
Screws, Device for inserting. E. Peyer. 1,457,457; June 5.
Seat: *See*—
Vehicle seat.
Seat spring. C. F. Green. 1,457,658; June 5.
Settling apparatus. W. E. Piper. 1,457,794; June 5.
Sewing cabinet. G. A. Murray. Des. 62,459; June 5.
Sewing case. B. S. Schwed. 1,457,860; June 5.
Sewing machines, Attachment to. R. Netter. 1,457,547; June 5.
Sewing machines, Cloth plate for. J. R. Moffatt. 1,457,449; June 5.
Shade fixture. I. S. Sherwin. 1,457,465; June 5.
Shaft unit, Cam-. A. H. Leipert. 1,457,707; June 5.
Sharpener, Razor-blade. B. P. Simone. 1,457,399; June 5.
Shears, Cutting. W. Johnsen. 1,457,527; June 5.
Sheet-cutting machine. A. Cheetham. 1,458,122; June 5.
Sheet material, Separating mechanism for. C. Henderson. 1,457,775; June 5.
Sheet-separating mechanism. C. Henderson. 1,457,776; June 5.
Shield, Glare. C. H. Lippy. 1,457,929; June 5.
Shingle-making machine. S. M. Ford. 1,457,662–3; June 5.
Shock absorber, Line-shaft. B. A. Mikkelson. 1,457,711; June 5.
Shoe last. J. W. Brockman. 1,457,872; June 5.
Shoe, Safety. J. F. Smith. 1,457,402; June 5.
Shoes, boots, etc., Making. H. C. Egerton. 1,457,826; June 5.
Shotgun shell. E. M. Barrows. 1,457,337; June 5.
Shoulder strap. H. and F. Gerstein. 1,457,904; June 5.
Shovel, Rope-thrusting. W. Ferris and S. R. W. M. Bager. 1,457,301; June 5.
Sifting device. M. Adam. 1,457,292; June 5.
Sign. M. S. Wall. Des. 62,463; June 5.
Sign, Moving. P. L. and G. L. Odle. 1,457,669; June 5.
Signal: *See*—
Automobile signal. Vehicle signal.
Railway signal.
Signal. C. W. Brown. 1,457,818; June 5.
Silk, Producing artificial. I. Kitsee. 1,457,977; June 5.
Silks, Weighting and dyeing. C. Von der Schmalz. 1,457,607; June 5.
Sirup can. S. Brown. 1,457,614; June 5.
Skate, Roller. C. A. Midon. 1,457,667; June 5.

Sled, Occupant-propelled. A. E. Mueller. 1,457,591; June 5.
Smoker's appliance. G. S. Eardley. 1,458,038; June 5.
Snow, Apparatus for disposing of. J. F. Reilly. 1,457,797; June 5.
Soldering machine. W. J. Cullen and W. L. Rutkowski. 1,457,504; June 5.
Soldering machine. G. A. Leighton. 1,457,441; June 5.
Soldering tool, Fountain. A. Deliman. 1,457,508; June 5.
Solids from liquids, Apparatus for separating. A. J. White. 1,457,803; June 5.
Spacing articles, Apparatus for. C. H. Dreher. 1,457,353; June 5.
Spade, Boring. W. Elermann. 1,458,039; June 5.
Spark plug. L. L. Petty and P. E. Keller. 1,457,389; June 5.
Spear, Tubing. O. D. Nutter. 1,457,596; June 5.
Spindle. J. H. Harnett. 1,457,572; June 5.
Spindle drill, Multiple-. F. E. Neitzel. 1,457,387; June 5.
Spinning and like machines, Doffing mechanism for. T. G. Mylchreest. 1,457,503; June 5.
Spinning frame. M. Spencer. 1,457,405; June 5.
Splice. B. F. Sparling. 1,458,009; June 5.
Spokes, Manufacture of. A. J. Adams. 1,457,808; June 5.
Spotlamp. R. E. Williams. 1,457,645; June 5.
Spring: *See*—
High-capacity spring. Seat spring.
Spring forming and quenching machine. J. F. Beans. 1,457,340; June 5.
Spring structure. C. W. Rogers. 1,457,856; June 5.
Spring wheel. J. Hamelin. 1,457,433; June 5.
Spring wheel. L. Mark and P. Bialy. 1,457,538; June 5.
Stair construction. P. Frisch. 1,457,515; June 5.
Stamp frame, Hand-. W. A. Force, jr. 1,457,697; June 5.
Stamp, Time. W. H. Thompson. 1,457,410; June 5.
Stand: *See*—
Collapsible stand. Drawing stand.
Display stand. Tree-holding stand.
Stands, Attachment for music. S. H. Stephenson. 1,458,083; June 5.
Starters, Lockout for automatic. R. Varley. 1,457,917; June 5.
Station indicator. S. Majka and P. Borowsky. 1,457,378; June 5.
Staves, Mold for cornerib. A. Hemphill. 1,458,054; June 5.
Steering-stabilizing device. J. Hoffman. 1,457,975; June 5.
Steering wheel and lock, Turning. C. E. Frederickson. 1,457,733; June 5.
Steering wheels, Tilting and locking device for. R. S. Busby. 1,457,722; June 5.
Stoker-controlling mechanism. V. V. Veenschoten. 1,457,564; June 5.
Stool, Kneeling. B. Denny and M. Kaufman. 1,457,567; June 5.
Stone and like working machine. K. R. Haerting. 1,458,097; June 5.
Stove. L. C. Dannreuther. 1,457,506; June 5.
Stove. F. P. Holloway. 1,457,660; June 5.
Strap: *See*—
Automobile top stay strap. Shoulder strap.
Street indicator. W. M. Flewelling. 1,457,732; June 5.
Structural shape. T. Higgins. 1,457,303; June 5.
Succinic acid, Making. J. F. Norris and E. O. Cummings. 1,457,791; June 5.
Sulphides, Making metal. H. Howard and E. B. Alvord. 1,457,436; June 5.
Sulphur, Burning. A. T. Prentice. 1,458,001; June 5.
Sulphur, Obtaining. R. S. Perry, P. W. Webster, and V. K. Boynton. 1,457,793; June 5.
Surfaces moving through a fluid, Method permitting to regulate and adjust the dynamic characteristics of. G. Delage. 1,457,507; June 5.
Swimming device. A. B. Kupsche. 1,457,908; June 5.
Swimming mitt. W. A. Ruddell. 1,457,858; June 5.
Swing. E. Grieshaber. 1,458,049; June 5.
Synchronizer, Continuous-action. R. Esnault-Pelterie. 1,457,968; June 5.
Table: *See*—
Disappearing table. Folding table.
Table article. H. G. Norwood. 1,457,998; June 5.
Tank: *See*—
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Tassel. G. H. Kelley. 1,457,738; June 5.
Telephone cabinet or housing. F. Collins. 1,457,347; June 5.
Telephone system. W. L. Dodge. 1,457,898; June 5.
Telephone system. H. D. MacPherson. 1,457,912; June 5.
Tennis and other racket press and case and the like. A. Forbes. 1,457,356; June 5.
Testing machine. M. Spindel. 1,457,800; June 5.
Textile fabric. J. H. Bunting. Des. 62,440; June 5.
Textile fabric. C. Katz. Des. 62,453–5; June 5.
Textile fabric. E. Krupicka. Des. 62,456–8; June 5.
Textile fabric. M. Rothschild. Des. 62,460; June 5.
Textile fabric. V. Weiss. Des. 62,464–5; June 5.
Textile materials or products, Machine for treating. J. J. Brophy. 1,457,297; June 5.
Textile spinning and twisting process. W. Binns. 1,457,817; June 5.
Thread protector. P. J. Shrum. 1,457,882; June 5.
Threading machine, Nipple-. T. Rankin. 1,457,603; June 5.
Threading tool. A. R. Thoke and H. G. Smith. 1,457,409; June 5.
Thermometer, Oven. G. D. Wilkinson. 1,457,335; June 5.
Ticket punch, Registering. F. Mathews and S. D. Black. 1,457,913; June 5.
Tie: *See*—
Railway tie.
Tie. H. E. Stonge. 1,457,559; June 5.
Tiles, Device for conducting surface water to drain. W. O. Sievers. 1,457,637; June 5.
Timber-felling apparatus. J. D. Wilson. 1,457,761; June 5.
Time slot meter. C. P. Henry. 1,457,838; June 5.
Tire. C. Escher. 1,458,040; June 5.
Tire carrier, Valve-protecting. J. B. Heiser. 1,457,735; June 5.
Tire-carrying rim, Sectional. J. C. Cooper and J. J. Sigrist. 1,458,031; June 5.
Tire chain, Automobile. H. Smith. 1,458,081; June 5.
Tire fabric. B. R. Blackwelder. 1,457,892; June 5.
Tire, Pneumatic. W. E. Shively. 1,457,942; June 5.
Tire, Resilient. E. Favary. 1,457,512; June 5.
Tire, Spring. T. H. Gammon. 1,458,117; June 5.
Tires, Folding, nonskid armor equipment for automobile. A. F. Stockwell. 1,457,948; June 5.
Tires, Means for patching blow-outs in pneumatic. T. H. McDonald. 1,457,846; June 5.
Tires, Valve for pneumatic. H. Plasschaert. 1,457,390; June 5.
Toasting machine. F. L. Bamford. 1,458,021; June 5.
Tone regulator. C. O. Tucker. 1,457,327; June 5.
Tongs, Grappling. H. Marcum. 1,457,445; June 5.
Tool holder. E. R. Evans. 1,457,511; June 5.
Toothbrush. A. Pikoos. 1,458,074; June 5.
Toothbrush holder. M. Halpern. Des. 62,447; June 5.
Tooth holder. G. R. De Nise. 1,457,824; June 5.
Torpedoes, Mechanism for sinking. J. H. Hammond, jr. 1,457,700; June 5.
Towel rack. J. H. White and C. A. Werner. 1,457,644; June 5.
Toy. A. C. Gilbert. 1,457,972; June 5.
Toy railway. A. R. Fergusson. 1,457,771; June 5.
Toy sets and the like, Containers for. A. C. Gilbert. 1,457,361; June 5.
Toy vehicle. J. C. Kashmere and J. K. Roberts. 1,457,842; June 5.
Track and curve gauge. J. E. Bushy. 1,457,425; June 5.
Track construction. J. Roberts. 1,458,078; June 5.
Traction device. J. H. Reisler. 1,457,395; June 5.
Tractor. A. U. Avera. 1,457,647; June 5.
Tractor. S. C. Carter. 1,457,692; June 5.
Tractors, Safety device for. E. R. Miller. 1,457,712; June 5.
Trailer hitches, Pin guard for. G. H. Prescott. 1,457,747; June 5.
Train-stopping apparatus. L. Dunn. 1,457,899; June 5.
Trains in motion, Automatic apparatus for signaling railway. G. Dalla Bona. 1,457,728; June 5.
Transformer. E. P. Maurer. 1,457,784; June 5.
Transformer, Audiofrequency coupling. S. Cohen. 1,457,619; June 5.
Transmission attachment. G. R. Richardson. 1,458,003; June 5.
Trap: *See*—
Animal trap. Rat trap.
Tree-holding stand. E. E. Cleveland. 1,457,820; June 5.
Trial frame. L. W. Bugbee. 1,457,494; June 5.
Trolley lines, Crossover for overhead-. G. W. Bower. 1,457,689; June 5.
Truck-box cellar. J. G. Blunt. 1,457,893; June 5.
Trolley replacer. M. M. Sykes. 1,457,677; June 5.
Truck wheel. R. A. Whittingham. 1,457,683; June 5.
Trunk lines, Selective connection of. L. D. Barrows and L. H. Darrow. 1,457,338; June 5.
Tube: *See*—
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Tubes and cables, Housing for flexible service. W. T. Caldwell. 1,458,115; June 5.
Tubes for vulcanization, Preparing inner. M. A. Marquette. 1,457,986; June 5.
Tumbler, Dry-room. W. R. Hager. 1,457,905; June 5.
Turbines being at rest, Means for preventing formation of rust in. F. Ljungström. 1,458,068; June 5.
Turnstile registering apparatus. S. Mitzenmacher. 1,457,448; June 5.
Twine holding and dispensing device. W. Eley. 1,457,621; June 5.
Typesetting appliance. C. A. H. Bullock. 1,457,423; June 5.
Typewriters and the like, Justifying device for. K. O'Bryan and J. W. O'Bryan. 1,457,853; June 5.
Typewriting machine. P. de Clamecy. 1,457,739; June 5.
Typewriting machine. B. J. Dowd and A. Utz. 1,457,620; June 5.
Typewriting machine. L. J. Du Mais. 1,457,965; June 5.
Typewriting machine. M. Garbell. 1,457,970–1; June 5.
Umbrella. S. C. Vincent. 1,457,679; June 5.
Undergarment. C. Reich. 1,457,394; June 5.

Undergarment. W. B. Reed. 1,457,752; June 5.
Urn, Coffee. I. C. Popper. 1,457,392; June 5.
Vacuum tank. H. B. Coats. 1,457,922; June 5.
Valve. S. Hinds. 1,457,574; June 5.
Valve. C. L. McCuen. 1,457,585; June 5.
Valve. E. J. Pace. 1,457,599; June 5.
Valve. G. F. Shevlin. 1,457,318; June 5.
Valve. P. C. Withrow and W. W. Lemen. 1,457,613; June 5.
Valve and electric switch, Combination air. H. R. Stevens and R. L. Rockwell. 1,457,558; June 5.
Valve, Blow-off. A. Kushlan. 1,458,064; June 5.
Valve device for hydrants, Drain-. L. T. Buckler. 1,457,422; June 5.
Valve for tanks, etc. T. C. Morris. 1,457,743; June 5.
Valve for tanks, Flush. P. Mueller. 1,457,315; June 5.
Valve grinder. F. Merdian. 1,457,785; June 5.
Valve mechanism, Flush-tank. C. H. Hapgood. 1,457,571; June 5.
Valve mechanism, Slack take-up for. E. W. Caulfield. 1,457,819; June 5.
Valve-operating mechanism, Float-. P. Mueller. 1,457,314; June 5.
Valve, Pressure-regulating. J. S. Reynolds. 1,457,937; June 5.
Valve-rod-adjusting device. C. A. Miller. 1,457,589; June 5.
Valve, Safety. A. B. Myers. 1,457,544; June 5.
Valve, Safety. R. P. Tooley and C. W. Johnson. 1,458,087; June 5.
Valve, Sewer-trap. S. Kurtz. 1,457,580; June 5.
Valves, Machine provided with. M. Birkigt. 1,457,957; June 5.
Valves, Method of and apparatus for preventing the burning of gas-pressure-reducing. E. Wiss. 1,457,869; June 5.
Valves, Pressure-equalizing valve for piston. H. Koch. 1,458,101; June 5.
Vanity case. L. P. Dickey. 1,457,925; June 5.
Vanity case. T. W. Foster. Des. 62,443; June 5.
Vanity case. A. C. Maynard. 1,457,541; June 5.
V-belt, Transmission. H. M. Gusdorf. 1,457,569; June 5.
Vehicle bodies, Top for. C. P. Pond. 1,458,075; June 5.
Vehicle buffer-device. C. A. Lyon. 1,457,532; June 5.
Vehicle for tilling purposes, Mixed-driving windless. A. Petit. 1,457,548; June 5.
Vehicle frame suspension. T. Wilson. 1,458,092; June 5.
Vehicle, Motor. D. G. Stanbrough. 1,457,947; June 5.
Vehicle, Occupant-propelled. N. Dupuis. 1,457,731; June 5.
Vehicle outrigger. E. G. Deucher. 1,457,897; June 5.
Vehicle seat. E. Lasher. 1,457,843; June 5.
Vehicle signal. H. C. Raymond. 1,457,460; June 5.
Vehicle spring, Supplementary. S. Furmidge. 1,457,518; June 5.
Vehicle spring suspensions, Stabilizer for motor-. W. R. Cochran. 1,457,498; June 5.
Vehicles and the like, Controlling mechanism for electric. P. E. Twiss. 1,457,759; June 5.
Vehicles, Automatically-operated road map for motor. R. C. Fulton. 1,457,358; June 5.
Vehicles, Liquid-cooling radiator for motor. E. T. Curran. 1,457,768; June 5.
Vehicles, Pneumatic tire for. L. G. Williams. 1,457,412; June 5.
Vehicles, Signal for. E. Bednarz. 1,458,023; June 5.
Vehicles, Signal system for. W. W. Knight. 1,458,099; June 5.
Vehicles, Shock absorbing apparatus for. O. P. Edwards. 1,457,509; June 5.
Vehicles, Traffic signal for motor. G. Doose and C. Gartner. 1,458,116; June 5.
Ventilators. W. B. Braucher. 1,457,959; June 5.
Ventilator. M. T. Buckley. 1,457,298; June 5.
Violin. J. Altmeier. 1,457,415; June 5.
Vise. O. C. Kerns. 1,457,307; June 5.
Voltage regulator. A. F. Nesbit. 1,457,851; June 5.
Wagon, Dump. J. Gasser. 1,458,047; June 5.
Wagons, Dumping attachment for farm. A. F. Jansen. 1,457,575; June 5.
Wall covering. M. B. Lloyd. 1,457,909; June 5.
Wall facing. D. Hamilton. 1,457,523; June 5.
Warping machine. G. Adsit. 1,457,293; June 5.
Washer: *See*—
Lock washer.
Washing machine. F. K. Renner and E. C. Pfaff. 1,457,750; June 5.
Washing machines, Automatic control device for. H. W. Hubers. 1,457,367; June 5.
Washstand and bath chair, Combined stationary. G. F. Steinkamp. 1,457,470; June 5.
Watch-bracelet hook. G. A. and A. F. Guyot. 1,457,432; June 5.
Watch-chain holder. G. Stiegler. 1,457,716; June 5.
Water carrier. H. J. Daniel. 1,457,655; June 5.
Water-controlling device. T. Curran. 1,457,505; June 5.
Water-elevating device. P. T. Nelson. 1,457,995; June 5.
Water heater. J. Frumveller. 1,457,773; June 5.
Water heater. F. W. Magee. 1,457,890; June 5.
Water heater, Gas. J. G. Haus. 1,457,365; June 5.
Water-heating apparatus. H. E. Waldren. 1,458,090; June 5.
Water-heating grid. J. E. Kennedy. 1,457,372; June 5.
Water meter. F. A. Olsen. 1,457,932; June 5.
Water, Method of and apparatus for the purification of. W. M. Cross. 1,457,503; June 5.
Water, Method of and apparatus for softening. T. R. Duggan. Re15,618; June 15.
Weather stripping. J. Yassenovsky. 1,458,094; June 5.
Weeder, Wheeled. I. and T. G. Dammiel. 1,457,823; June 5.
Weighing apparatus, Damping device for. C. F. M. van Berkel. 1,457,328; June 5.
Welding machine, Electric. J. W. Fay. 1,457,513; June 5.
Wells, Electrical heater for oil. P. F. Brine. 1,457,690; June 5.
Wells, Increasing the yield of oil. E. R. Wolcott. 1,457,479; June 5.
Wheel: *See*—
Buffing wheel.
Disk wheel.
Elastic wheel.
Friction wheel.
Resilient wheel.
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Wheel remover. G. Pizzuti. 1,457,795; June 5.
Wheels, Demountable rim for vehicle. L. G. Hackworth. 1,457,888; June 5.
Wheels, Forming and tempering disk. G. H. Forsyth. 1,457,772; June 5.
Wheels, Grouter for. J. F. Roberts. 1,458,119; June 5.
Wind instrument. A. F. Fairchild. 1,457,623; June 5.
Windlass for attachment to walls, Surety. A. Lang. 1,457,778; June 5.
Window construction. A. V. Horner. 1,457,366; June 5.
Window-control mechanism. A. R. Price. 1,457,316; June 5.
Wire-hoop machine. G. E. Bull. 1,457,691; June 5.
Wire staples, Stapling machine for driving. E. H. Michener. 1,457,446; June 5.
Wire stretcher. E. F. Little. 1,457,531; June 5.
Wood everlastingly flexible, Making. M. Hanemann. 1,457,974; June 5.
Wood-splitting machine. W. Eastman. 1,457,966; June 5.
Woodworking machinery. L. Fritz. 1,457,626; June 5.
Woodworking tool, Universal. J. H. Bloodgood. 1,457,492; June 5.
Work feeder, Automatic. R. B. Gerhardt. 1,457,830; June 5.
Wrench: *See*—
Can opening wrench.
Wrench. O. H. Dickey. 1,458,037; June 5.
Wrench. J. Wahl. 1,457,719; June 5.
Wringer: *See*—
Clothes wringer.
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Yeast, Growing of. B. A. Stagner. 1,457,319-20; June 5.

CLASSIFICATION OF PATENTS

ISSUED JUNE 5, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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	91: 1,457,603	34—	4: 1,457,451		415: 1,457,341		67: 1,457,560		43: 1,458,099		1,457,599				
	96: 1,457,409		5: 1,457,905		423: 1,457,627		85: 1,457,680		51: 1,457,460		160: 1,457,809				
12—	125: 1,457,435		19: 1,458,056	58—	16: 1,457,919	84—	275: 1,457,415		54: 1,457,723	138—	9: 1,457,665				
	133: 1,457,872		39: 1,457,483	62—	4: 1,457,950		392: 1,457,623		1,458,023	139—	77: 1,458,036				
15—	22.3: 1,457,497		48: 1,457,779	63—	1: 1,457,350	87—	7: 1,457,466		67: 1,458,060		304: 1,457,651				
	138: 1,457,615	35—	9: 1,457,468	64—	10: 1,457,384	88—	1: 1,457,426		159: 1,457,705	140—	88: 1,457,691				
	153: 1,458,063	36—	1.5: 1,457,601		1,457,555		14: 1,457,918	118—	17: 1,457,503	141—	3: 1,458,028				
	167: 1,458,074		50: 1,457,402		24: 1,457,831		17: 1,457,510		69: 1,457,817	143—	6: 1,457,492				
	170: 1,457,815	37—	117: 1,457,594		1,457,893		18: 1,457,554	119—	16: 1,457,636		22: 1,457,626				
	171: 1,457,414		145: 1,457,878		25: 1,457,894		18.2: 1,457,666		27: 1,457,850		165: 1,457,600				
	1,458,095		156: 1,457,862		36: 1,457,584		19.5: 1,457,500		51: 1,458,058	144—	34: 1,457,761				
	262: 1,457,508	40—	1.5: 1,458,091		100: 1,457,711		20: 1,457,494		105: 1,457,631		193: 1,457,966				
16—	19: 1,457,617		15: 1,457,348		36: 1,457,954		24: 1,457,782		136: 1,457,672		309: 1,457,974				
	72: 1,457,714		1,457,703	65—	15: 1,457,998		39: 1,457,429	120—	42: 1,457,765	145—	2: 1,457,930				
	112: 1,457,859		28: 1,458,089		51: 1,457,751		47: 1,457,608		45: 1,457,875		50: 1,457,457				
	142: 1,457,323		1,458,100	66—	4: 1,458,102		54: 1,457,355		54: 1,457,958		62: 1,457,570				
18—	2: 1,457,343		32: 1,457,669		26: 1,457,903		1,457,804	121—	134: 1,458,101	146—	12: 1,457,643				
	5: 1,458,048		42: 1,457,358		1,458,103	89—	37: 1,457,924	122—	212: 1,457,516		14: 1,457,861				
	54: 1,457,977		1,457,378	67—	115: 1,458,087	90—	60: 1,457,307		249: 1,457,773		210: 1,457,374				
	56: 1,457,986		90: 1,457,732	68—	3: 1,457,720		133: 1,457,837	123—	1: 1,457,968	148—	32: 1,457,370				
	59: 1,457,826		93: 1,458,073		6: 1,457,727	91—	44: 1,457,634		11: 1,457,951	150—	2: 1,457,344				
19—	44: 1,457,329		109: 1,457,821		10: 1,457,661		51: 1,457,605		53: 1,457,322	151—	5: 1,457,736				
	95: 1,457,832		126: 1,457,306		21: 1,457,750		55: 1,457,413		90: 1,457,589		15: 1,457,455				
	109: 1,457,467		1,458,050		32: 1,457,419		60: 1,457,748		1,457,695		21: 1,457,749				
	143: 1,457,453		149: 1,457,640	70—	8: 1,457,702		68: 1,457,625		1,457,707		35: 1,457,592				
20—	12: 1,458,025	41—	1: 1,457,469		14: 1,457,985		1,457,892		1,457,819	152—	1: 1,457,512				
	15: 1,457,909		26: 1,457,806		65: 1,458,065		70: 1,457,598		148: 1,457,310		8: 1,458,117				
	23: 1,458,015	42—	4: 1,457,477	72—	19: 1,457,523	92—	7: 1,457,326		169: 1,457,389		10: 1,457,412				
	49: 1,457,366		10: 1,457,961		41: 1,457,437		11: 1,457,915		173: 1,457,943		12: 1,457,390				
	56: 1,457,949		94: 1,457,407		44: 1,457,981		1,457,941		1,457,944		13: 1,457,942				
	69: 1,458,094	43—	3: 1,457,388		90: 1,457,540		24: 1,457,865		180: 1,457,570		14: 1,457,395				
22—	13: 1,457,439		5: 1,457,401		92: 1,457,454		43: 1,457,349		185: 1,457,946		1,458,081				
	65: 1,457,834		12: 1,457,886		96: 1,457,515	94—	44: 1,457,299		187.5: 1,457,308		1,458,096				
	128: 1,457,362		23: 1,458,057		105: 1,457,611		1,457,928		188: 1,457,957		1,458,107				
	139: 1,457,763		27: 1,457,762		122: 1,457,610	95—	10: 1,457,802	124—	1: 1,457,764		16: 1,457,948				
	188: 1,457,375		28: 1,457,550	73—	1: 1,458,010		53: 1,457,563		7: 1,457,983		24: 1,457,846				
23—	1: 1,457,676		38: 1,457,373		1,458,011		76: 1,457,530	125—	38: 1,457,452		1,458,053				
	1,458,001		48: 1,457,926		37: 1,457,932		100: 1,457,864	126—	36: 1,457,686		28: 1,457,396				
	10: 1,457,793		49: 1,457,906		51: 1,457,629	96—	6: 1,457,474		39: 1,457,506		36: 1,458,040				
	13: 1,457,436		69: 1,457,953		1,457,800	97—	10: 1,457,996		41: 1,458,021		37: 1,457,433				
	1,457,787		91: 1,457,670		1,457,883		27: 1,457,647		53: 1,457,372		49: 1,458,020				
	1,457,934		135: 1,457,674		1,457,933		40: 1,457,823		58: 1,457,660		51: 1,457,538				
	1,457,935		137: 1,458,071		52: 1,457,481		223: 1,457,960		92: 1,457,553	153—	2: 1,457,579				
	21: 1,457,877		140: 1,457,420		54: 1,457,406	98—	4: 1,457,298		125: 1,457,739		1,457,816				
	28: 1,457,835		144: 1,458,070		82: 1,457,471		22: 1,457,959		169: 1,457,517		49: 1,457,549				
24—	3: 1,457,716	45—	13: 1,458,066		119: 1,457,335	99—	2: 1,457,325		70: 1,457,377	154—	30: 1,457,664				
	63: 1,457,324		27: 1,457,744		166: 1,457,811		1,457,417		1,458,012		49: 1,457,921				
	73: 1,457,650		32: 1,457,644	74—	7: 1,457,682	100—	37: 1,457,755		176: 1,457,416	155—	7: 1,457,843				
	133: 1,457,576		80: 1,457,458		1,457,683		41: 1,457,478		272: 1,457,852		1,457,984				
	139: 1,457,969		109: 1,457,889		1,457,789		57: 1,457,866		275: 1,458,002		18: 1,458,077				
	143: 1,458,017		110: 1,457,982		1,457,910	101—	83: 1,457,756		283: 1,458,024		59: 1,458,049				
	1,458,088		116: 1,457,618		1,457,917		97: 1,457,578		341: 1,457,444		80: 1,457,562				
	150: 1,458,029	46—	4: 1,457,528		17: 1,457,434		108: 1,457,697		343.5: 1,457,797		167: 1,457,567				
	183: 1,457,602		1,457,710		26: 1,457,524		283: 1,457,501		350: 1,457,365		180: 1,457,658				
	191: 1,457,573		6: 1,457,464		1,457,525		338: 1,457,717		359: 1,457,890	156—	27: 1,457,465				
	191: 1,457,386		9: 1,457,729		33: 1,457,722		426: 1,457,369	127—	9: 1,457,803		40: 1,457,738				
	230.5: 1,458,069		24: 1,457,356		1,457,733	102—	15: 1,457,337	128—	214: 1,457,796	158—	7: 1,457,833				
	233: 1,457,648		41: 1,457,383		34: 1,457,526	103—	194: 1,457,995		28: 1,458,082		36: 1,457,721				
	237: 1,457,432		47: 1,457,360		1,457,945		205: 1,457,368	129—	1: 1,457,885		1,457,758				
	239: 1,458,086		51: 1,457,667		39: 1,458,013		225: 1,457,546		15: 1,457,638		1,457,922				
	241: 1,457,987		58: 1,457,901		62: 1,457,809	104—	91: 1,457,938		16: 1,458,109		74: 1,457,542				
	242: 1,457,887		61: 1,458,083		81: 1,457,489		112: 1,457,655		1,458,112		76: 1,457,590				

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252: 1,458,120
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239: 1,457,475
175— 183: 1,457,597
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356: 1,457,619
361: 1,457,784
363: 1,457,359
364: 1,457,902
176— 26: 1,457,440
177— 329: 1,457,818
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179— 15: 1,457,336
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50: 1,457,898
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72: 1,457,970
171: 1,457,814
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54: 1,458,003
82: 1,457,712
182— 7: 1,457,637
14: 1,457,580
183— 48: 1,458,005
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184— 7: 1,457,380
11: 1,457,993
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79: 1,457,681
97: 1,457,328

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17: 1,457,973
141: 1,457,367
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194— 2: 1,457,616
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102: 1,457,699
195— 20: 1,457,319
1,457,320
196— 25: 1,457,786
29: 1,457,656
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33: 1,457,620
43: 1,457,971
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126: 1,457,940
160: 1,457,730
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92: 1,458,043
154: 1,457,562
200— 25: 1,457,462
87: 1,457,519
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140: 1,457,939
157: 1,457,967
201— 11: 1,457,713
204— 1: 1,457,688
9: 1,457,791
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64: 1,457,312
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206— 1: 1,457,361
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62: 1,457,496
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55: 1,457,794
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211— 8: 1,457,300
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13: 1,458,113
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24: 1,457,990
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145: 1,457,897
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42: 1,457,400
55: 1,457,754
94: 1,457,947
135: 1,457,301
215— 11: 1,458,041
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64: 1,457,708
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100: 1,457,342
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35: 1,457,792
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53: 1,457,690
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24: 1,457,911
86: 1,457,976
221— 23: 1,457,614
62: 1,457,879
79: 1,457,988
103: 1,458,042
223— 39: 1,457,997
53: 1,457,860
224— 29: 1,457,595
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226— 81: 1,458,123
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227— 11: 1,457,304
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87: 1,457,551
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230— 13: 1,457,777
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27: 1,457,427
34: 1,457,585

230— 50: 1,457,696
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36: 1,457,391
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235— 31: 1,457,488
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62: 1,458,035
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101: 1,457,956
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18: 1,457,871
29: 1,457,507
31: 1,457,687
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12: 1,458,009
246— 186: 1,457,899
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293: 1,457,673
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251— 18: 1,457,613
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102: 1,457,825
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257— 25: 1,457,847
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63: 1,458,014
266— 6: 1,457,340
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267— 19: 1,457,884
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27: 1,458,094
42: 1,457,574
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279— 55: 1,457,994
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38: 1,457,357
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29: 1,457,888
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A-B Stove Company, Battle Creek, Mich. Gas ranges. 169,260; June 12; Serial No. 172,073; published Mar. 13, 1923.

Ace Motor Corporation, Philadelphia, Pa. Motor cycles. 169,234; June 12; Serial No. 175,908; published Mar. 13, 1923.

Achilles Guard Company, Grand Rapids, Mich. Heel guards made of fabric for shoes. 169,373; June 12; Serial No. 169,698; published Mar. 6, 1923.

Advance Battery Manufacturing Company, Louisville, Ky. Storage batteries. 169,405; June 12; Serial No. 154,633; published Mar. 27, 1923.

Advance Knitting Mills. (See Block, Felix.)

Air Way Company, assignor to Air Way Electric Appliance Corporation, Toledo, Ohio. Electric vacuum cleaners. 169,281; June 12; Serial No. 126,441; published May 11, 1920.

Air Way Electric Appliance Corporation. (See Air Way Company, assignor.)

Akron Barrow Company, The, Akron and Cleveland, Ohio. Tubular wheelbarrows, contractors' wheelbarrows, and concrete carts. 169,136; June 12; Serial No. 154,909; published Mar. 13, 1923.

Aktiebolaget Mölnbacka-Trysil, Forshaga, Sweden. Craft paper. 169,364; June 12; Serial No. 175,178; published Mar. 27, 1923.

Albemarle Mills Company, Inc., Charlottesville, Va. Wood flooring. 169,338; June 12; Serial No. 173,312; published Mar. 27, 1923.

Albert, J., and Son. (See Albert, Michael F.)

Albert, Michael F., doing business as J. Albert and Son, Sydney, New South Wales, Australia. Mouth organs, accordions, flutes, and flageolets. 169,176; June 12; Serial No. 169,488; published Mar. 6, 1923.

Allegretti Chocolate Cream Co., Chicago, Ill. One, two, three, and five pound boxes of assorted chocolates. 169,137; June 12; Serial No. 155,469; published Aug. 1, 1922.

American Burtonizing Company and Wallerstein Laboratories, New York, N. Y. Invertase used in making sugar sirups. 169,208; June 12; Serial No. 166,340; published Mar. 27, 1923.

American Hair Felt Company, Chicago, Ill. Felt insulating material. 169,332; June 12; Serial No. 174,354; published Mar. 7, 1923.

American Mayonnaise Company, Inc., Ithaca, N. Y. Salad dressing. 169,369; June 12; Serial No. 169,433; published Mar. 27, 1923.

American Products Company. (See Mills Brothers Company.)

American Refractories Company, Pittsburgh, Pa. Refractory bricks and special shapes of clay, tile, and brick. 169,200–1; June 12; Serial Nos. 169,046–7; published Feb. 27, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Hosiery. 169,423; June 12.

American Wringer Company, The, Providence, R. I. Clothes wringers. 23,635; renewed Sept. 19, 1923.

American Wringer Company, The, Providence, R. I. Clothes wringers and driers. 23,636; renewed Sept. 19, 1923.

Anti-Hydro Waterproofing Company, Newark, N. J. Liquid for use with concrete and cement mixtures. 169,330; June 12; Serial No. 174,423; published Mar. 27, 1923.

Apel-Schneider Co., Philadelphia, Pa. Shoes, boots, and slippers. 169,372; June 12; Serial No. 169,667; published Mar. 6, 1923.

Arbuckle Brothers, New York, N. Y., and Chicago, Ill., and also doing business as Arbuckles & Company, Pittsburgh, Pa. Coffee. 169,297; June 12; Serial No. 166,162; published Mar. 27, 1923.

Arbuckles & Company. (See Arbuckle Brothers.)

Archer Strauss Rubber Company, Framingham, Mass. Waterproof fabrics. 169,247; June 12; Serial No. 170,705; published Mar. 13, 1923.

Armstrong Cork Company, Pittsburgh, Pa. Crown seals and closures for bottles, etc. 169,153; June 12; Serial No. 164,292; published Mar. 27, 1923.

Armstrong Cork Company, Pittsburgh, Pa. Crown seals and closures for bottles, cork and cork-composition closures, etc. 169,154; June 12; Serial No. 164,294; published Mar. 13, 1923.

Associated Growers Inc., Lodi, Calif. Fresh grapes. 169,263; June 12; Serial No. 157,402; published Mar. 27, 1923.

Atascadero Fruit Exchange, Atascadero, Calif. Canned fruits and vegetables. 169,257; June 12; Serial No. 171,300; published Mar. 27, 1923.

Automobile Appliances Co., Philadelphia, Pa. Vacuum-operated mechanical stop signal and direction-indicating device for automobiles. 169,252; June 12; Serial No. 170,923; published Mar. 20, 1923.

B-B Shoe Company, The, Milwaukee, Wis. Shoes and slippers made wholly or in part of leather. 169,383; June 12; Serial No. 171,891; published Mar. 20, 1923.

Babcock & Wilcox Company, The, Elizabethport, N. J., and New York, N. Y. Steam generators. 23,692; renewed Oct. 10, 1923.

Baker, R. & L. Company, The, Cleveland, Ohio. Elevating industrial trucks and structural parts thereof. 169,206; June 12; Serial No. 168,705; published Mar. 13, 1923.

Bangert, Adolph. (See Bangert Improved Tool Co., assignor.)

Bangert Improved Tool Co., Inc., Union, assignor, by mesne assignments, to A. Bangert, Jersey City, N. J. Mechanics' wrenches, hammers, pliers, and pincers. 169,262; June 12; Serial No. 158,073; published Mar. 20, 1923.

Barrett Company, The, New York, N. Y. Roofing and sheathing felt. 169,149; June 12; Serial No. 160,992; published Feb. 27, 1923.

Bassick Company, The, Bridgeport, Conn. Pintles for casters. 169,359; June 12; Serial No. 172,505; published Mar. 27, 1923.

Bastian-Morley Co., Laporte, Ind. Gas water heaters. 169,235; June 12; Serial No. 173,951; published Mar. 13, 1923.

Bay, H. C., Company, Chicago, Ill. Pianos. 169,188; June 12; Serial No. 173,060; published Mar. 6, 1923.

Bay Side Canning Company, Alviso, Calif. Canned fruits, vegetables, and fish. 169,386; June 12; Serial No. 168,751; published Mar. 27, 1923.

Beck & Belaief, New York, N. Y. Caps for men and boys. 169,394; June 12; Serial No. 165,910; published Mar. 6, 1923.

Becker, Smith & Page, Inc., Philadelphia, Pa. Wall paper. 169,333; June 12; Serial No. 173,619; published Mar. 27, 1923.

Berg, Mannie, Baltimore, Md. Men's furnishings. 169,379; June 12; Serial No. 171,118; published Mar. 6, 1923.

Berkowitz, Julius, New Bedford, Mass. Shoes. 169,368; June 12; Serial No. 169,149; published Dec. 19, 1922.

Bernhardt, Max E., New York, N. Y. Smokers' articles. 169,190; June 12; Serial No. 169,394; published Mar. 13, 1923.

Bethelite Co., The. (See Lafans, Walter S.)

Biertuempfel Bros. Cork Company, Newark, N. J. Corks. 169,261; June 12; Serial No. 172,076; published Mar. 13, 1923.

Black Bros. Flour Mills, Beatrice, Nebr. Wheat flour. 169,382; June 12; Serial No. 171,609; published May 1, 1923.

Blackburn, Felix, Springfield, Mass. Sauce for meats, fish, soups, salads, and potatoes. 169,219; June 12; Serial No. 153,172; published Jan. 17, 1922.

Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Bar candy. 169,399; June 12; Serial No. 162,528; published Mar. 27, 1923.

Block, Felix, doing business as Advance Knitting Mills, New York, N. Y. Knitted goods—viz. sweaters, scarfs, mufflers, and capes. 169,314; June 12; Serial No. 169,528; published Mar. 20, 1923.

Body, Thomas, Co., Oakland, Calif. Canned fruits. 169,304; June 12; Serial No. 168,020; published Mar. 27, 1923.

Bonney Forge & Tool Works, Philadelphia, Pa.; New York, N. Y.; Allentown, Pa., and Chicago, Ill. Wrenches. 169,360; June 12; Serial No. 172,633; published Mar. 27, 1923.

Boston Insulated Wire & Cable Co., Boston, Mass. Electric conductors, wires, and cables. 160,286; June 12; Serial No. 160,534; published July 18, 1922.

Brody, N., & Co., New York, N. Y. Ladies' suits, coats, and dresses. 169,177; June 12; Serial No. 169,527; published Mar. 20, 1923.

Bronson, Emma, Waldo, Kans. Spark catcher for locomotives. 169,145; June 12; Serial No. 157,206; published Mar. 13, 1923.

Buddie Saw Rig Works. (See Johnson, Oliver W.)

Byron Weston Company, Dalton, Mass. Writing paper. 169,355; June 12; Serial No. 172,142; published Mar. 27, 1923.

Cable, John E., doing business as Edison Rubber Co., Akron, Ohio. Slabs and sheets of rubber composition material particularly for shoe soles. 169,225; June 12; Serial No. 160,660; published Aug. 15, 1922.

Ceramic Products Corp., Old Bridge, N. J. Ceramic products used for building purposes, face brick, terra cotta, hollow tile, etc. 169,242; June 12; Serial No. 169,967; published Mar. 13, 1923.

Challenge Cutlery Corporation. (See Estate of Frederick Weibusch, assignor.)

Chocolishus Company, The. (See Hunter, H. Blount.)

Cincinnati Cordage & Paper Co., Cincinnati, Ohio. Writing paper. 169,328; June 12; Serial No. 174,555; published Mar. 27, 1923.

Claravox Company, The, Youngstown, Ohio. Reproducers for phonographs and other talking machines. 169,183; June 12; Serial No. 172,583; published Mar. 6, 1923.

Clark Tructractor Company, Buchanan, Mich. Motor-propelled trucks. 169,144; June 12; Serial No. 157,136; published Feb. 27, 1923.

Cohen, A., & Sons, New York, N. Y. Silver-plated hollow and flat ware excluding knives, for table service, and candlesticks. 169,428; June 12.

Cohn & Kaplan, New York, N. Y. Hats for women and misses. 169,393; June 12; Serial No. 166,039; published Mar. 6, 1923.

Colucci, Fred. C., Ashtabula, Ohio. Confectionery in the form of frozen dainties. 169,229; June 12; Serial No. 166,290; published Mar. 20, 1923.

Comstock-Bolton Company, Kansas City, Mo. Bottle cappers. 169,269; June 12; Serial No. 154,350; published Mar. 20, 1923.

Consolidated Steel Corporation, New York, N. Y. Fabricated structural steel and reenforcing bars for concrete construction. 169,138; June 12; Serial No. 155,485; published Mar. 13, 1923.

Consolidated Steel Corporation, New York, N. Y. Vehicle axles and wheels, mounted wheels, and metal tires. 169,151; June 12; Serial No. 162,982; published Mar. 13, 1923.

Consolidated Steel Corporation, New York, N. Y. Planers, boring, milling, and drilling machines, presses, etc. 169,265; June 12; Serial No. 155,487; published Mar. 20, 1923.

Consolidated Steel Corporation, New York, N. Y. Certain articles of iron or steel, wrought and unwrought. 169,266; June 12; Serial No. 155,486; published Mar. 20, 1923.

Consolidated Steel Corporation, New York, N. Y. Black and galvanized sheets and tin plate. 169,303; June 12; Serial No. 167,935; published Mar. 20, 1923.

Cowen, Joseph, & Co., Blaydon-on-Tyne, assignor to Priestman Collieries Limited, Newcastle-on-Tyne, England. Bricks, retorts, tiles, quarles, pipes, lumps, and other articles made of fire clay. 23,653; renewed Sept. 26, 1923.

Cox, Abram, Stove Company, Philadelphia, Pa. Coal stoves and ranges. 169,159; June 12; Serial No. 165,619; published Mar. 13, 1923.

Curtis Corporation, The, Wilmington, Del. Canned ripe olives, artichokes, tuna fish, pimientos, etc. 169,417; June 12.

Curtis Shoe Company, Marlboro and Boston, Mass. Boots and shoes made wholly or in part of leather. 169,374; June 12; Serial No. 169,703; published Mar. 13, 1923.

Dasco Spring Cover Co., Somerville, Mass. Covers for automobile springs. 169,147; June 12; Serial No. 159,854; published Mar. 13, 1923.

Davis, P. H., Tailoring Company, Cincinnati, Ohio. Men's and young men's clothing. 169,214; June 12; Serial No. 146,069; published Dec. 20, 1921.

Dayton Safety Ladder Company, The, Dayton, Ohio. Stepladders. 169,212; June 12; Serial No. 167,605; published Mar. 13, 1923.

De Roubaix Oedenkoven & Co., Borgerhout, near Antwerp, Belgium. Candles, stearin or stearic acid, oleine and glycerin. 23,528; renewed Aug. 23, 1923.

Desmond-Stephan Manufacturing Company. (See McConnell, George.)

Dessart Brothers Inc., Brooklyn, N. Y. False faces, toy mustaches and beards, toy wigs, etc. 169,185–7; June 12; Serial Nos. 172,979–81; published Mar. 20, 1923.

Dickinson, John, & Co., Limited, London, England. Paper. 23,516; renewed Aug. 22, 1923.

Di Palma, F. & J., New York, N. Y. Olive oil. 169,163; June 12; Serial No. 166,878; published Mar. 27, 1923.

Dryden Corporation, The, Oakland, Calif. Ice cream in brick form. 169,378; June 12; Serial No. 170,680; published Mar. 27, 1923.

Dunwoody, Halsey, Paris, France. Penholders and black and colored pencils. 169,216; June 12; Serial No. 150,154; published Mar. 20, 1923.

Durbrow & Hearne, New York, N. Y. Straw-sewing machines. 169,324; June 12; Serial No. 174,823; published Mar. 20, 1923.

Durbrow & Hearne, New York, N. Y. Straw-sewing machines. 169,325; June 12; Serial No. 174,821; published Mar. 20, 1923.

Edison Rubber Company. (See Cable, John E.)

Egoval Chemical Co. (See Voge, A. Law.)

Empire Hosiery Corporation. (See Van Brunt, W. C., assignor.)

Estate of Frederick Wiebusch, The, by Charles Wiebusch, executor, New York, N. Y., assignor to Challenge Cutlery Corporation, Bridgeport, Conn. Cutlery. 23,639; renewed Sept. 19, 1923.

Euclid Candy Company, Cleveland, Ohio. Candy. 169,278; June 12; Serial No. 144,611; published Mar. 27, 1923.

Fahys Watch Case Co., The, Sag Harbor, N. Y., assignor to Joseph Fahys & Co., New York, N. Y. Watchcases. 22,968; renewed May 9, 1923.

Fair, The, Chicago, Ill. Women's knitted and textile undergarments. 169,292; June 12; Serial No. 164,881; published Mar. 20, 1923.

Famo Nut Co., Los Angeles, Calif. Nuts and peanut butter. 169,280; June 12; Serial No. 132,934; published Mar. 27, 1923.

Federal Institute of Radio Telegraphy, Camden, N. J. Electrical apparatus for radiosignaling. 169,245; June 12; Serial No. 170,633; published Feb. 27, 1923.

Federal Mercantile Company. (See Solomon, Morris.)

Federal Rubber Company, The, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Casings and tires, reliners, outside and inside tire sleeve repair patches, etc. 169,274; June 12; Serial No. 146,898; published Nov. 22, 1921.

Federal Rubber Company, The, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vehicle tires, packing, inner tubes, etc. 169,275; June 12; Serial No. 146,891; published Nov. 22, 1921.

Federal Rubber Company, The, Cudahy, Wis., assignor to The Rubber Company, Chicopee Falls, Mass. Casings and tires, reliners, outside tire sleeves, repair patches, etc. 169,276; June 12; Serial No. 146,884; published Nov. 22, 1921.

Flibert-Greer Manufacturing Company, The, assignor to The Tiny Toter Manufacturing Company, Dayton, Ohio. Hand-propelled conveyances for children. 169,241; June 12; Serial No. 165,077; published Mar. 13, 1923.

Finkelson, Max, New York, N. Y. Boys' blouses. 169,230; June 12; Serial No. 167,351; published Mar. 13, 1923.

Fisk Rubber Company, The. (See Federal Rubber Company, assignor.)

Ford, E. E., Mfg. Co., New York, N. Y. Fuel control or regulator for a carburetor. 169,240; June 12; Serial No. 172,150; published Mar. 20, 1923.

Foster Engineering Company, Newark, N. J. Grease cups. 169,329; June 12; Serial No. 174,568; published Mar. 20, 1923.

Friedman, B., New York, N. Y. Boots, shoes, slippers, and sandals. 169,412; June 12.

Friedman, H., Hat Co., Inc., New York, N. Y. Men's hats. 169,407; June 12.

Fries, Beall & Sharp Co. Inc., Washington, D. C. Coal ranges and stoves, wood and gas stoves, and pipeless furnaces. 169,198; June 12; Serial No. 169,587; published Mar. 13, 1923.

Fromm, Frank H., doing business as F. H. Fromm & Company, Philadelphia, Pa. Canned sardines. 169,285; June 12; Serial No. 159,747; published Mar. 27, 1923.

Frost, Samuel, New York, N. Y. Portable and nonportable electrical lamps. 169,264; June 12; Serial No. 155,999; published Sept. 26, 1922.

General Electric Company, Schenectady, N. Y. Nonmetallic sheet material formed from textile material and a binder. 169,244; June 12; Serial No. 170,524; published Mar. 13, 1923.

General Tire and Rubber Company, The, Akron, Ohio. Rubber tires, tire casings, and inner tubes. 169,130; June 12; Serial No. 114,161; published Feb. 27, 1923.

Getsinger, Orpho C., Los Angeles, Calif. Motion-picture films. 169,171; June 12; Serial No. 168,261; published Mar. 20, 1923.

Gilbert, A. C., Company, The, New Haven, Conn. Toy construction sets. 169,192; June 12; Serial No. 175,192; published Mar. 27, 1923.

Glaser Bros., Boston, Mass. Finger rings. 169,339; June 12; Serial No. 173,188; published Feb. 27, 1923.

Goldstein and Fisher Co., Inc., New York, N. Y. Dress shirts and pyjamas. 169,427; June 12.

Golf Specialty Manufacturing Company, Baltimore, Md. Golf clubs. 169,152; June 12; Serial No. 163,753; published Mar. 20, 1923.

Goodlow Corporation, New York, N. Y. Vests, coats, trousers, and overcoats for men and boys. 169,425; June 12.

Goodyear Rubber Company, New York, N. Y. Rubber and leather goods, and waterproof oiled fabrics. 23,455–6; renewed Aug. 8, 1923.

Goodyear Rubber Company, New York, N. Y., and St. Paul, Minn. Rubber boots and shoes. 169,411; June 12.

Gotham Knitting Mills, New York, N. Y. Knitted sweaters. 169,318; June 12; Serial No. 170,064; published Mar. 20.

Gottschall, Amos H., assignor to P. B. Gottschall, Harrisburg, Pa. Salves, pills, vermifuge, liniment, and cough balm. 22,471; renewed Feb. 14, 1923.

Grant Motor Car Corporation, Cleveland, Ohio. Motor cars. 169,133; June 12; Serial No. 132,237; published Feb. 27, 1923.

Great Atlantic and Pacific Tea Company, Jersey City, N. J. Shelled nuts in their natural state. 169,197; June 12; Serial No. 169,744; published Mar. 27, 1923.

Great Northern Fur Dyeing and Dressing Company. (See Pierini, Attilio.)

Grier-Sutherland Co., Detroit, Mich. Small storage batteries. 169,406; June 12.

Gropper Knitting Mills, Inc., New York, N. Y. Scarfs and neckties. 169,420; June 12.

Grosberg, Joseph E., doing business as Grosberg Packing Co., Schenectady, N. Y. Canned fruits and vegetables and spices. 169,343; June 12; Serial No. 170,683; published Mar. 27, 1923.

Guild Products Corporation, Philadelphia, Pa. Writing ink and fluid in various colors. 169,228; June 12; Serial No. 165,545; published Mar. 6, 1923.

Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories. 169,203; June 12; Serial No. 168,888; published Mar. 13, 1923.

Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories. 169,310; June 12; Serial No. 168,889; published Mar. 13, 1923.

Hale, Alfred, Rubber Company, Atlantic, Mass. Rubber heels and soles, rubbers, overshoes, and rubber shoes. 169,375; June 12; Serial No. 169,953; published Mar. 20, 1923.

Haley-Neeley Company, Sioux City, Iowa. Fresh fruits and vegetables. 169,389; June 12; Serial No. 168,037; published Mar. 27, 1923.

Hall, Harvey H., doing business as The H. H. Hall Company and Hallworthy Poultry Farm, Elyria, Ohio. Electrically-heated brooders. 169,400; June 12; Serial No. 161,925; published Mar. 27, 1923.

Hallworthy Poultry Farm. (See Hall, Harvey H.)

Hauck Manufacturing Company, Brooklyn, N. Y. Asphalt surface and kettle heaters, fire pots, brazing forges, annealing furnaces, etc. 169,208; June 12; Serial No. 168,365; published Mar. 20, 1923.

Hecht & Company. (See Hecht, William.)

Hecht, William, doing business as Hecht & Company, New York, N. Y. Children's suits. 169,150; June 12; Serial No. 162,816; published Mar. 27, 1923.

Henry's Handy Handles Co., Los Angeles, Calif. Spark and throttle control levers for motor vehicles. 169,165; June 12; Serial No. 167,176; published Mar. 13, 1923.

Hildesheimer, J., Co., New York, N. Y. Infants' and children's hats, caps, and bonnets. 169,392; June 12; Serial No. 166,074; published Mar. 6, 1923.

Hill, C. V., & Co. Inc., Trenton, N. J. Refrigerators. 169,180; June 12; Serial No. 170,247; published Mar. 20, 1923.

Hiner, Ward B., doing business as Red Ball Transit Company, Indianapolis, Ind. Moving vans or trucks. 169,251; June 12; Serial No. 170,920; published Mar. 13, 1923.

Hirshfield, Maurice W., doing business as Marfield Radio Mfg. Co., New York, N. Y. Sound amplifiers for wireless telephone and telegraph receiving instruments. 169,387; June 12; Serial No. 168,529; published Mar. 27, 1923.

Hochschild, Kohn & Co., Inc., Baltimore, Md. Shoes. 169,421; June 12.

Holmes, Henry G., doing business as The Mrs. A. G. Holmes & Co., Corsicana, Tex. Yeast. 169,395; June 12; Serial No. 165,497; published Mar. 27, 1923.

Holmquist, Peter C., doing business as Holmquist & Co., Chicago, Ill. Woodenware. 169,272; June 12; Serial No. 151,760; published Feb. 27, 1923.

Hood Rubber Company, Watertown, Mass. Rubber vehicle tires and tubes. 169,179; June 12; Serial No. 169,674; published Mar. 20, 1923.

Hunter, H. Blount, doing business as The Chocollahus Company, Norfolk, Va. Food preparations of chocolate, milk, and sugar, etc. 169,227; June 12; Serial No. 165,444; published Mar. 20, 1923.

Hurwitz, Mitchell A., Jamaica, N. Y. Extract of malt for food purposes. 169,345; June 12; Serial No. 170,777; published Mar. 27, 1923.

Ideal Tire and Rubber Company, The, Cleveland, Ohio. Vehicle tires, inner tubes, etc. 169,302; June 12; Serial No. 167,817; published Mar. 27, 1923.

India Tire and Rubber Company, The, Akron and Mogadore, Ohio. Pneumatic vehicle tires and inner tubes. 169,141; June 12; Serial No. 155,757; published Mar. 13, 1923.

Ingersoll Milling Machine Company, The, Rockford, Ill. Milling fixtures, cutters, and machines and milling-cutter grinders. 169,221; June 12; Serial No. 154,194; published Mar. 27, 1923.

Irving Iron Works Company, Long Island City, N. Y. Metal gratings for floorings and staircases. 169,336; June 12; Serial No. 173,409; published Mar. 27, 1923.

Ivar-Lite Corporation, The, Malden, Mass. Flash lights. 169,284; June 12; Serial No. 159,704; published Sept. 26, 1922.

Jackson & Gutman Company, The, Salisbury, Md. Negligee shirts. 169,432; June 12.

Jefferson Company, The, Follansbee, W. Va. Electric-lamp stands or bases and fixtures therefor. 169,250; June 12; Serial No. 170,768; published Mar. 6, 1923.

Johns-Manville, Incorporated, New York, N. Y. Rod packing, piston-rod packing, piston packing, plunger packing, and asbestos belting used as brake lining. 169,170; June 12; Serial No. 167,818; published Mar. 13, 1923.

Johnson, H. M., Company, Newburyport, Mass. Leather shoes. 169,371; June 12; Serial No. 169,485; published Mar. 20, 1923.

Johnson, Oliver W., doing business as Buddie Saw Rig Works, Geneva, Ohio. Sawing attachments for tractors. 169,362; June 12; Serial No. 175,147; published Mar. 20, 1923.

Jordan Marsh Company, Boston, Mass. Clothing. 169,290; June 12; Serial No. 164,437; published Mar. 20, 1923.

Jordanides, Michael S., New York, N. Y. Cigarettes. 169,233; June 12; Serial No. 173,328; published Mar. 20, 1923.

Karda, Vácslav C., New York, N. Y. Animal traps. 169,211; June 12; Serial No. 167,878; published Mar. 13, 1923.

Karp, Samuel D., Inc., New York, N. Y. Boys' camp suits. 169,291; June 12; Serial No. 164,501; published Mar. 20, 1923.

Kelly-Springfield Tire Company, New York, N. Y. Resilient vehicle tires. 169,306; June 12; Serial No. 168,046; published Mar. 27, 1923.

Kenlit Mfg. Co., Medford, Mass. Textile-fabric sheeting coated with compositions. 169,271; June 12; Serial No. 152,076; published Feb. 27, 1923.

Kent Machine Works, Inc., Brooklyn, N. Y. Jacks. 169,327; June 12; Serial No. 174,578; published Mar. 20, 1923.

Kent-Owens Machine Company, The, Toledo, Ohio. Nonferrous casting alloy. 169,295; June 12; Serial No. 166,077; published Mar. 20, 1923.

Kings County Packing Company, Armona, Calif. Canned fruits and vegetables. 169,207; June 12; Serial No. 168,418; published Mar. 27, 1923.

Kings County Packing Co., Armona, Calif. Canned fruits. 169,210; June 12; Serial No. 168,044; published Mar. 27, 1923.

Kings County Packing Co., Armona, Calif. Canned fruits. 169,305; June 12; Serial No. 168,043; published Mar. 27, 1923.

Kirkendall, F. P., & Co., Omaha, Nebr. Leather shoes and boots. 169,377; June 12; Serial No. 170,488; published Mar. 20, 1923.

Kling Bros. & Co. Inc., Chicago, Ill. Bathing suits, sweaters, sport vests and coats, caps, and mufflers. 169,283; June 12; Serial No. 159,209; published Mar. 20, 1923.

Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Box, stock, gondola, tank, dump, platform, etc., cars. 169,155–8; June 12; Serial Nos. 165,447–50; published Mar. 13, 1923.

Kranish Bros., New York, N. Y. Snap fasteners. 169,424; June12.

Kroneberger, C. H., & Co., Baltimore, Md. Coffee and tea. 169,226; June 12; Serial No. 165,085; published Mar. 20, 1923.

Lacteal Analytical Laboratories, Inc., Buffalo, N. Y. Milk culture. 169,196; June 12; Serial No. 169,767; published Mar. 27, 1923.

Lafans, Walter S., doing business as The Bethellite Co., Minneapolis, Minn. Decorative lanterns. 169,253; June 12; Serial No. 170,980; published Mar. 27, 1923.

La France Manufacturing Co., Philadelphia, Pa. Laundry tablets. 169,416; June 12.

Larson, L. P., Jr., Company, Chicago, Ill. Mint confection. 169,204; June 12; Serial No. 168,770; published Mar. 27, 1923.

Larson, L. P., Jr., Company, Chicago, Ill. Chewing gum. 169,205; June 12; Serial No. 168,769; published Mar. 27, 1923.

La Societe Anonyme des Automobiles Unic, Puteaux, France. Bicycles, automobiles, motor cycles, tricycles, and bicyclettes. 169,166; June 12; Serial No. 167,249; published Mar. 13, 1923.

Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Cements. 169,288; June 12; Serial No. 162,119; published Mar. 27, 1923.

Lederle Antitoxin Laboratories, New York, N. Y. Fermented bottled milk. 169,164; June 12; Serial No. 167,136; published Mar. 27, 1923.

Leitchfield Clothing Co., Leitchfield, Ky. Men's and young men's suits. 169,315; June 12; Serial No. 169,639; published Mar. 20, 1923.

Levine Brothers, Cincinnati, Ohio. Men's suits. 169,433; June 12.

Libby, Lewis L., doing business as Libby Manufacturing Company, Plainfield, N. J. Transmission linings. 169,142; June 12; Serial No. 156,284; published Mar. 13, 1923.

Libby Manufacturing Company. (See Libby, Lewis L.)

Lifschitz, Chas. W., New York, N. Y. Neckbands for men's shirts. 169,300; June 12; Serial No. 166,627; published Mar. 20, 1923.

Linette, David, New York, N. Y. Gravity paper cutter. 169,331; June 12; Serial No. 174,400; published Mar. 20, 1923.

Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Metal culinary, household, and dairy utensils. 169,178; June 12. Serial No. 169,860; published Mar. 20, 1923.

Los Angeles Ice & Cold Storage Co., Los Angeles, Calif. Beverage sold as a soft drink and sirups for making same. 169,390; June 12; Serial No. 167,404; published Oct. 10, 1922.

Luminite Corporation, The, Newark, N. J. Luminous pendants for use with electrical switches and lamps. 169,161; June 12; Serial No. 165,878; published Mar. 13, 1923.

McAllister, W. B., Company, The, Cleveland, Ohio. Electrical cookstoves. 169,404; June 12; Serial No. 154,987; published Mar. 27, 1923.

McConnell, George, doing business as Desmond-Stephan Manufacturing Company, Urbana, Ohio. Emery-wheel dressers. 169,239; June 12; Serial No. 172,279; published Mar. 20, 1923.

McDowell, Pyle & Co., Inc., Baltimore, Md. Candy. 169,248; June 12; Serial No. 170,723; published Mar. 27, 1923.

McPherson, W. G., Company, The, Portland, Oreg. Warm-air furnaces. 169,257; June 12; Serial No. 172,626; published Mar. 13, 1923.
McQuillan, Owen A., Philadelphia, Pa. Candy. 169,370; June 12; Serial No. 169,452; published Mar. 27, 1923.
Maldari, F., & Bros., New York, N. Y. Molds for the manufacture of alimentary pastes. 169,323; June 12; Serial No. 175,018; published Mar. 20, 1923.
Mandel's, B., Sons, Philadelphia, Pa. Men's and young men's serge suits. 169,172; June 12; Serial No. 168,539; published Mar. 20, 1923.
Marfield Radio Mfg. Co. (See Hirshfield, Maurice W.)
Margolis Yelen, Kaiser Co. Inc., Chicago, Ill. Hosiery. 169,267; June 12; Serial No. 155,231; published Mar. 20, 1923.
Marolyn Extract Co. (See Palmer, Marion C.)
Marquette Manufacturing Company, St. Paul, Minn. Rim and tire tools. 169,353; June 12; Serial No. 172,049; published Mar. 27, 1923.
Marsball Candy Company, Brooklyn, N. Y. Candy. 169,256; June 12; Serial No. 171,227; published Mar. 27, 1923.
Marshall Field & Company, Chicago, Ill. Corset waists. 169,419; June 12.
Maryland Packing Co., Baltimore, Md. Prepared mustard, Mayonnaise and olive relishes. 169,402; June 12; Serial No. 160,145; published Mar. 27, 1923.
Massachusetts Cotton Mills, Lowell, Mass., and New York, N. Y. Cotton goods. 23,019; renewed May 16, 1923.
Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather shoes. 169,376; June 12; Serial No. 170,206; published Mar. 6, 1923.
Metalistic Company, New York, N. Y. Metallic packing. 169,167; June 12; Serial No. 167,310; published Feb. 27, 1923.
Metropolitan Roofing Material Co., New York, N. Y. Coal tar for building and construction purposes, slate and tarred roofing. 169,294; June 12; Serial No. 165,555; published Mar. 27, 1923.
Mewhinney, A. B., Co. Inc., also doing business as Mewhinneys, Terre Haute, Ind. Candy. 169,289; June 12; Serial No. 162,562; published Mar. 27, 1923.
Meyer, A. J., Mfg. Co., Inc., West Hoboken, N. J. Radio apparatus, parts, and supplies. 169,296; June 12; Serial No. 165,755; published Mar. 6, 1923.
Mills Brothers Company, The, doing business as American Products Company, Cincinnati, Ohio. Salad-dressing powder and cake-icing powder. 169,213; June 12; Serial No. 140,737; published Mar. 20, 1923.
Modern Devices, Inc., Rockford, Ill. Indoor golf games. 169,191; June 12; Serial No. 175,097; published Mar. 27, 1923.
Momsen-Dunnegan-Ryan Co., El Paso, Tex. Axes. 169,243; June 12; Serial No. 170,074; published Mar. 20, 1923.
Montpelier Manufacturing Company, Montpelier, Ind. Cup packings formed of vulcanized fabric. 169,139; June 12; Serial No. 155,510; published Feb. 27, 1923.
Moore, John D., Tobacco Company. (See Walker, John D., assignor.)
Moray's Watch Case Co., Brooklyn, N. Y. Watchcases. 169,352; June 12; Serial No. 171,762; published Feb. 27, 1923.
Muhlbauer, Otto, & Co., Inc., Brooklyn, N. Y. Canned cherries, June peas, salmon, etc. 169,391; June 12; Serial No. 166,466; published Mar. 27, 1923.
Muller, Frank F., doing business as Pacific Mercantile Co., San Francisco, Calif. Men's and women's undergarments, house and lounging robes, pyjamas. 169,397; June 12; Serial No. 163,281; published Mar. 6, 1923.
Mt. Angel Producers Packing Co., Mount Angel, Oreg. Canned fruits. 169,246; June 12; Serial No. 170,689; published Mar. 27, 1923.
National Indicator Company, Long Island City, N. Y. Braiding machines. 169,361; June 12; Serial No. 172,896; published Mar. 27, 1923.
National Mortar and Supply Company of Pittsburg, Pittsburgh, Pa. Lime. 169,341; June 12; Serial No. 173,102; published Mar. 27, 1923.
National Packing Corporation, Ogden, Utah. Canned fruits, vegetables, etc. 169,309; June 12; Serial No. 168,780; published Mar. 27, 1923.
Neenah Shoe Company, Neenah, Wis. Leather boots and shoes. 169,429; June 12, 1923.
Nekritz, Louis, doing business as Perfect Polish Co., Brooklyn, N. Y. Stove polish. 169,410; June 12.
New York Rubber Company, New York, N. Y. Rubber hose and belting. 169,148; June 12; Serial No. 160,828; published Feb. 27, 1923.
Newman, John W., Hendersonville, N. C. Construction materials for stone veneer for walls, building blocks, bricks, etc. 169,200; June 12; Serial No. 168,330; published Mar. 13, 1923.
Newton, Chambers & Company, Limited, near Sheffield, England. Sheep dips. 23,065; renewed Sept. 26, 1923.
Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 169,434; June 12.
Niagara Knitting Mills Corp., Long Island City and New York, N. Y. Bathing suits. 169,426; June 12.
North American Process Company, Inc., Malone, N. Y. Pneumatic tubes. 169,194; June 12; Serial No. 169,919; published Feb. 27, 1923.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 169,174; June 12; Serial No. 169,074; published Mar. 20, 1923.
Oberg, C. O., & Co.'s Aktiebolaget, Eskilstuna, Sweden. Files and rasps. 169,287; June 12; Serial No. 161,641; published Mar. 20, 1923.
Oklahoma Garment Manufacturing Co., Oklahoma, Okla. Overalls, pants, shirts. 169,215; June 12; Serial No. 149,348; published Mar. 13, 1923.
Olsen & Marggraf, Inc., Brooklyn, N. Y. Metal ceilings and side walls, pressed-brick siding, painted V-crimped roofing, etc. 169,316; June 12; Serial No. 169,922; published Feb. 27, 1923.
Outing Talking Machine Co. Inc., Mount Kisco, N. Y. Phonographs. 169,414; June 12.
Pacific Fire Extinguisher Company, San Francisco, Calif. Fire-prevention apparatus and systems and parts thereof. 169,231; June 12; Serial No. 167,414; published Jan. 9, 1923.
Pacific Mercantile Co. (See Muller, Frank F.)
Packard, M. A., Company, Brockton, Mass. Shoes made wholly or in part of leather. 169,384; June 12; Serial No. 171,865; published Mar. 20, 1923.
Pacz, Aladar, Cleveland Heights, Ohio. Aluminum alloys. 169,277; June 12; Serial No. 144,977; published Mar. 27, 1923.
Palmer, Marion C., doing business as Marolyn Extract Co., Lynn, Mass. Vanilla extract. 169,249; June 12; Serial No. 170,731; published Mar. 27, 1923.
Palmetto Coffee Co., Inc., Dover, Del., and Washington, D. C. Coffee. 169,380; June 12; Serial No. 171,381; published Mar. 27, 1923.
Penick & Ford, Ltd., Incorporated, New Orleans, La. Molasses. 169,344; June 12; Serial No. 170,692; published Mar. 27, 1923.
Peninsular Paper Company, Ypsilanti, Mich. Cover paper. 169,182; June 12; Serial No. 172,554; published Mar. 20, 1923.
Perfect Polish Co. (See Nekritz, Louis.)
Perfecto Gear Differential Co., Bellingham, Wash. Variable-speed axles for motor-driven vehicles and parts of such axles. 169,273; June 12; Serial No. 148,296; published Mar. 27, 1923.
Petrocelli, Joseph, & Co., Inc., New York, N. Y. Canned tomato sauce. 169,311; June 12; Serial No. 169,182; published Mar. 27, 1923.
Phillips-Jones Corporation, New York, N. Y. Dress, negligee, and work shirts, collars, pyjamas, and nightshirts. 169,173; June 12; Serial No. 169,033; published Mar. 20, 1923.
Pierce, James H., Bay City, Mich. Motor trucks. 169,134; June 12; Serial No. 138,098; published Mar. 27, 1923.
Pierini, Attilio, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y. Fur skins and pelts imitating seal. 169,349; June 12; Serial No. 171,387; published Mar. 13, 1923.
Pierini, Attilio, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y. Raw fur skins, and pelts. 169,350; June 12; Serial No. 171,388; published Mar. 13, 1923.
Porter Electric Carbureter, Inc., New York, N. Y. Liquid-level indicators. 169,223; June 12; Serial No. 158,142; published Mar. 20, 1923.
Priestman Collieries Limited. (See Cowen, Joseph, & Co., assignor.)
Primalt Products Co., Chicago, Ill. Malt extract. 169,168; June 12; Serial No. 167,418; published Mar. 27, 1923.
Pup Toys Company, The, Chicago, Ill. Paper weights, inkwells, etc. 169,363; June 12; Serial No. 175,157; published Mar. 27, 1923.
R-W Manufacturing Co., Chicago, Ill. Radio receiving sets and parts thereof. 169,238; June 12; Serial No. 172,357; published Mar. 6, 1923.
Red Ball Transit Company. (See Hiner, Ward B.)
Red Hed Mfg. Co., Boston, Mass. Cocks, stop and waste and corporation. 169,346–7; June 12; Serial Nos. 170,787–8; published Mar. 20, 1923.
Reliable Importing Co. Inc., New York, N. Y. Vegetable salad oil. 169,307; June 12; Serial No. 168,238; published Mar. 27, 1923.
Rich-Maid Mfg. Co., Inc., Richmond, Va. Pop-corn confection. 169,301; June 12; Serial No. 167,328; published Mar. 27, 1923.
Rich Shoe Company, The, Milwaukee, Wis. Boots and shoes. 169,418; June 12.
Richardson Company, The, Lockland, Ohio. Bituminous compositions. 169,299; June 12; Serial No. 167,017; published Mar. 27, 1923.
Richardson Company, The, Lockland, Ohio. Sanitary sound-deadening and insulating fabric. 169,335; June 12; Serial No. 173,533; published Mar. 27, 1923.
Riley Shoe Manufacturing Company, The, Columbus, Ohio. Shoes. 169,431; June 12.
Robbins, Henry A., Boston, Mass. Phonographs. 169,357; June 12; Serial No. 172,439; published Feb. 27, 1923.
Rockland Hosiery Mills, Philadelphia, Pa. Hosiery for women and misses. 169,415; June 12.
Rood Candy Co., The, Pueblo, Colo. Candy. 169,255; June 12; Serial No. 171,188; published Mar. 27, 1923.
Rosenwald & Weil, Chicago, Ill. Wearing apparel for men and women. 169,388; June 12; Serial No. 168,070; published Jan. 9, 1923.

Roth, Ethel, Los Angeles, Calif. Women's aprons. 169,430; June 12.
Rushmore Paper Mills, Inc. Brooklyn and New York, N. Y. Toilet paper and paper towels. 169,367; June 12; Serial No. 175,272; published Mar. 27, 1923.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, capes, suits, costumes, dresses, etc. 169,293; June 12; Serial No. 165,313; published Mar. 20, 1923.
Salz Bros. Inc., New York, N. Y. Fountain pens. 169,534; June 12; Serial No. 173,611; published Mar. 27, 1923.
Sand Company Inc., New York, N. Y. Mousetraps. 169,312; June 12; Serial No. 169,227; published Mar. 13, 1923.
Schelter Last Company, Inc., Rochester, N. Y. Lasts. 169,202; June 12; Serial No. 168,984; published Mar. 13, 1923.
Schmidt, Gustave F., Chicago, Ill. Gas heaters. 169,143; June 12; Serial No. 157,078; published Mar. 20, 1923.
Schmidt, Joh C., Copenhagen, Denmark. Grinding machines and parts of same. 169,224; June 12; Serial No. 159,626; published Mar. 20, 1923.
Schreter, Adolf, Baltimore, Md. Neckties. 169,175; June 12; Serial No. 169,331; published Mar. 20, 1923.
Schwartz-Singer Co., Inc., New York, N. Y. Dresses. 169,321; June 12; Serial No. 170,219; published Mar. Mar. 20, 1923.
Scott, Hutchison, New York, N. Y. Metal cutters for cutting reenforced-concrete bars and wire rigging. 169,259; June 12; Serial No. 172,010; published Mar. 20, 1923.
Scranton Cap Manufacturing Company, Scranton, Pa. Men's and boys' headwear. 169,400; June 12.
Sears, Roebuck and Co., Chicago, Ill. Plowshares, plows, cultivators, corn planters, disk harrows. 169,322; June 12; Serial No. 175,109; published Mar. 20, 1923.
Sexton, John, and Company, Chicago, Ill. Canned vegetables, beans and pork, prepared spaghetti, flavoring extracts, peanut butter, etc. 169,220; June 12; Serial No. 153,625; published Mar. 20, 1923.
Silver Pad Mfg. Co. Inc., The, Herkimer, N. Y. Protecting pad for furniture. 169,320; June 12; Serial No. 170,159; published Mar. 13, 1923.
Simon, M., & Son, New York, N. Y. Hats and caps commonly known as hockey caps. 169,270; June 12; Serial No. 152,385; published Mar. 20, 1923.
Smith, A. W., Shoe Company, Boston, Mass. Leather boots and shoes. 169,401; June 12; Serial No. 160,159; published Mar. 20, 1923.
Smith Tablet Company, Inc., Holyoke, Mass. Writing paper, mailing envelopes, tablets, etc. 169,365; June 12; Serial No. 175,219; published Mar. 27, 1923.
Solomon, Morris, doing business as Federal Mercantile Company, New York, N. Y. Hosiery, underwear, and sweaters. 169,310; June 12; Serial No. 170,099; published Mar. 20, 1923.
Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill. Lard substitute and shortening. 169,222; June 12; Serial No. 158,062; published Mar. 20, 1923.
Spalding, A. G., & Bros., New York, N. Y. Tennis-racket strings. 169,189; June 12; Serial No. 173,541; published Mar. 20, 1923.
Spitz, Samuel, & Sons, Inc., Chicago, Ill. Men's and boys' overcoats, suits, coats, and pants. 169,403; June 12; Serial No. 157,695; published Mar. 20, 1923.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Asphalt and paving filler. 169,351; June 12; Serial No. 171,663; published Mar. 27, 1923.
Stansbury, A. R., Inc., Norfolk, Va. Roofing paper. 169,354; June 12; Serial No. 172,128; published Mar. 27, 1923.
Star Expansion Bolt Company, New York, N. Y. Expansion shields. 169,358; June 12; Serial No. 172,448; published Mar. 20, 1923.
Stein, A., & Company, Chicago, Ill. Arm bands. 169,381; June 12; Serial No. 171,475; published Mar. 20, 1923.
Stein, A., & Company, Chicago, Ill. Suspenders. 169,385; June 12; Serial No. 172,129; published Mar. 20, 1923.
Stevens Brothers and Company, Atlanta, Ga. Brick. 169,326; June 12; Serial No. 174,705; published Mar. 27, 1923.
Tablets and book covers. Smith Tablet Company Inc., Holyoke, Mass. 169,366; June 12; Serial No. 175,220; published Mar. 27, 1923.
Tannehill, Cecelia R., doing business as Tannehill Handmade Underwear Company, Whitetail, Mo. Handmade silk clothing. 169,308; June 12; Serial No. 168,499; published Mar. 20, 1923.
Texas Belting Company, Houston, Tex. Leather belts. 169,317; June 12; Serial No. 169,938; published Mar. 27, 1923.
Thal & Bitter Machine Co., The, Toledo, Ohio. Spotlights, spotlight mountings, and parts thereof. 169,337; June 12; Serial No. 173,450; published Mar. 6, 1923.
Thoma & Son, Inc., Fairfield, Iowa. Automobile sunbeam visor. 169,282; June 12; Serial No. 158,460; published Mar. 13, 1923.
Thompson, George E., Lightning Rod Co., Owatonna, Minn. Lightning rods. 169,408; June 12.
Tiny Toter Manufacturing Company, The. (See Filbert-Greer Manufacturing Company.)
Touraine Company, The, Boston, Mass. Candy and confections. 169,132; June 12; Serial No. 127,669; published Apr. 20, 1920.
Truscon Steel Company, Youngstown, Ohio. Certain articles of foundry equipment. 169,232; June 12; Serial No. 167,697; published Mar. 20, 1923.
Turner, Earl W., doing business as Turner Mfg. Co., Kokomo, Ind. Spark timers for internal-combustion engines. 169,236; June 12; Serial No. 173,302; published Mar. 6, 1923.
U. R. S. Candy Stores, Inc., Long Island City, N. Y. Candy. 169,135; June 12; Serial No. 154,675; published Mar. 27, 1923.
Union Cutlery Co., Olean, N. Y. Razors, pocketknives, and scissors. 169,258; June 12; Serial No. 171,714; published Mar. 20, 1923.
Van Brunt, W. C., assignor to Empire Hosiery Corporation, New York, N. Y. Hosiery. 169,268; June 12; Serial No. 154,422; published Mar. 6, 1923.
Van Camp Sea Food Company, Los Angeles, Calif. Canned fish. 169,348; June 12; Serial No. 171,343; published Mar. 27, 1923.
Virden Packing Company, South San Francisco, Calif. Canned fruits, olives, fruit jams. 169,140; June 12; Serial No. 155,716; published Mar. 27, 1923.
Voge, A. Law, doing business as Egoval Chemical Co., New York, N. Y. Extract to be used in the preparation of soft drinks. 169,181; June 12; Serial No. 172,406; published Mar. 27, 1923.
Von Gal. J. K., Hat Company, Danbury, Conn. Hats. 169,413; June 12.
Wagner, Edward C., & Son, Chicago, Ill. Pop-corn confection. 169,160; June 12; Serial No. 165,650; published Mar. 27, 1923.
Walker, John D., Lexington, Ky., assignor to John D. Moore Tobacco Company, Louisville, Ky. Twist tobacco. 22,425; renewed Feb. 7, 1923.
Warren, Samuel Limited, Sheffield, England. Tool, carbon, shear, mild, spring, etc., steels. 169,217; June 12; Serial No. 152,599; published Mar. 20, 1923.
Warren, Samuel Limited, Sheffield, England. Molding and planing irons, rock and twist drills, milling cutters, etc. 169,218; June 12; Serial No. 152,600; published Mar. 20, 1923.
Waterman, Helen, Orange, N. J. Candy. 169,162; June 12; Serial No. 166,425; published Mar. 27, 1923.
Watkins Manufacturing Company, The, Wichita, Kans. Babbitt bearings. 169,340; June 12; Serial No. 173,113; published Mar. 20, 1923.
Waverly Musical Products Co., Inc., New York, N. Y. Ukulele and banjo pegs, ukulele, mandolin, banjo, and guitar tailpieces, etc. 169,190; June 12; Serial No. 174,601; published Mar. 6, 1923.
Wear-Ever Patch Mfg. Co. Inc., The, Columbus, Ohio. Patches for automobile tubes. 169,193; June 12; Serial No. 169,941; published Feb. 27, 1923.
Westfield Manufacturing Company, Westfield, Mass. Bicycles. 169,254; June 12; Serial No. 171,050; published Feb. 27, 1923.
Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated box toes and box-toe material for use in boots and shoes. 169,195; June 12; Serial No. 169,882; published Mar. 13, 1923.
Wiebusch, Charles, executor. (See estate of Frederick Wiebusch.)
Williamson Heater Company, The, Cincinnati, Ohio. Heated-cabinet laundry driers. 169,313; June 12; Serial No. 169,461; published Feb. 27, 1923.
Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. Canned fruits. 169,396; June 12; Serial No. 163,721; published Mar. 27, 1923.
Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. Canned fruits, vegetables, fish, and jam. 169,398; June 12; Serial No. 163,159; published Mar. 27, 1923.
Willys-Overland Company, The, Toledo, Ohio. Pneumatic tires for motor-driven vehicles. 169,131; June 12; Serial No. 123,149; published Feb. 27, 1923.
Wilson, Kathryn S., Seattle, Wash. Paper and wooden toys. 169,279; June 12; Serial No. 141,339; published Feb. 20, 1923.
Wimelbacher & Rice, New York, N. Y. Fabric gloves. 169,422; June 12.
Winslow Boiler & Engineering Co., Chicago, Ill. Heat-generating plants comprising oil tanks, motors, fans, etc. 169,140; June 12; Serial No. 158,025; published Feb. 27, 1923.
Wirfs, Edward J., St. Louis, Mo. Weather strips. 169,342; June 12; Serial No. 170,230; published Mar. 27, 1923.
Zarracina, Isidro R., Valladolid, Spain. Carburetors. 169,184; June 12; Serial No. 172,711; published Mar. 27, 1923.
Zell, Lucian M., New York, N. Y. Aquamarines. 169,356; June 12; Serial No. 172,193; published Feb. 27, 1923.
Zurn, J A., Manufacturing Company. (See Zurn, John A.)
Zurn, John A., doing business as J. A. Zurn Manufacturing Company, Erie, Pa. Backwater traps, trap ferrules, clean-outs, pipe fittings, insertible joints, etc. 169,169; June 12; Serial No. 167,544; published Mar. 20, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aines Farm Dairy Co., Kansas City, Mo. Crestwood Farms. For Milk. 26,070; June 12.
Bernard, Albert, New York, N. Y. Weebits. For Candies and Confections. 26,071; June 12.
Blair, Jim, Shoe Corporation, St. Joseph, Mo. Jim Blair's Duz Wear Supported Arch Shoe. For Shoes. 26,072; June 12.
Blaisdell Pencil Company, Philadelphia, Pa. Blaisdell Arab. For Lead Pencils. 26,073; June 12.
Brundage Co., The. (See Menasha Printing and Carton Company, assignor.)
Buddy Brooks, Inc., Marshall, Mich. Buddy Brooks A Man's Powder for Men. For Containers for Talcum Powder. 26,074; June 12.
Camel Malt Syrup Company. (See Lindeman, G. D., and Novak.)
Cellas', Inc., New York, N. Y. Fortunella Pure Cottonseed Oil. For Cottonseed Oil. 26,075; June 12.
Champlain Valley Fruit Co. Inc., Burlington, Vt. Aunt Almira's. For Mayonnaise. 26,076; June 12.
Columbia Graphophone Company, New York, N. Y. Emile Coue's Own Method of Self Mastery. For Phonograph Records. 26,077; June 12.
Cottage Creamery Co., The. (See Menasha Printing and Carton Company, assignor.)
Eagle-Picher Lead Company, The, Cincinnati, Ohio. Eagle. For White Lead. 26,078; June 12.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Moth Killer. For Insecticide Preparation for Killing Moths and Carpet Beetles. 26,079; June 12.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Enamel Cleaner. For A Preparation for Cleaning Enamel and Porcelain Ware. 26,080; June 12.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Ozo Waste Pipe Opener. For a Drain Pipe Cleaner and Solvent. 26,081; June 12.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Auto Glo. For An Automobile and Wood Polish. 26,082; June 12.
Holland Bread Co., The. (See Menasha Printing and Carton Company, assignor.)
Houseman Cream Fried Cake Co., Grand Rapids, Mich. Houseman's Puffs. For Fried Cakes. 26,083; June 12.
James Brothers, Atlantic City, N. J. Salt Water Taffy. For Candy. 26,084; June 12.
Jarrett Water Co., Philadelphia, Pa. Jarrett Mineral Springs Water. For Water. 26,085; June 12.
Lindeman, Gaylen D., and Leo V. Novak, doing business as Camel Malt Syrup Company, Cedar Rapids, Iowa. Camel Malt Syrup. For Malt Sirup. 26,086; June 12.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Cottage Creamery Co., Cleveland, Ohio. Good Creamery Butter. For Butter. 26,087; June 12.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. Holland's Twin Loaf Bread. For Bread. 26,088; June 12.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Brundage Co., Cleveland, Ohio. Maple Ridge Creamery Butter. For Butter. 26,089; June 12.
Millus, Gay E. and L., doing business as E. Millus & Co., New Rochelle and New York, N. Y. Genuine Philippine Repp Originated 1915. For Philippine Repp Cloth. 26,090; June 12.
Millus, Lester. (See Millus, Gay E. and L.)
New Amsterdam Bulb Co. Inc., New York, N. Y. Crocus. For a Box of Crocus Bulbs. 26,091; June 12.
Novak, Leo V. (See Lindeman, G. D., and Novak.)
Ohio Salt Co., The, Wadsworth, Ohio. Purex. For Salt. 26,092; June 12.
Parodi Cigar Co., Inc., Jersey City, N. J. Conte Verde. For Cigars. 26,093; June 12.
Parodi Cigar Co., Inc., Jersey City, N. J. Kentucky Chimney. For Cigars. 26,094; June 12.
Parodi Cigar Co., Inc., Jersey City, N. J. Leone di San Marco. For Cigars. 26,095; June 12.
Parodi Cigar Co., Inc., Jersey City, N. J. Blacky. For Cigars. 26,096; June 12.
Parodi Cigar Co., Inc., Jersey City, N. J. Il Progresso. For Cigars. 26,097; June 12.
Scott Paper Company, Chester, Pa. No. 04 Mirror and Scottissue Towel Holder. For Cartons for Shipping Combination Mirrors and Towel Holders. 26,098–9; June 12.
Stearns, Frank R., Delta, Colo. Visitor's Napkin. For Paper Napkins. 26,100; June 12.
United States Foil Company, Louisville, Ky. Trickle Ice. For Silver Ribbon Used for Christmas Trees and Other Decorations. 26,101; June 12.
Walters, Henry V., Long Branch, N. J. Jim Dandy. For Bread. 26,102; June 12.
White Sulphur Springs, Inc., White Sulphur Springs, W. Va. White Sulphur Springs Water. For Mineral Waters. 26,103; June 12.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, Inc., The, New York, N. Y. Fit as a Fiddle. For Athletic Underwear. 6,755; June 12.
B. V. D. Company, Inc., The, New York, N. Y. "B. V. D." Shows the Way to Comfort. For Athletic Underwear. 6,756; June 12.
Crystal Rock Co., Spring Valley, Muhlenberg Township, Berks County, Pa. Crystal Rock. For Carbonated and Plain Nonintoxicating Beverages and Drinking Waters. 6,757; June 12.
Erlanger Dry Goods Company, The, doing business as Stark Dry Goods Co., Canton, Ohio. Johnny On The Spot. For Dry Goods. 6,758; June 12.
Miada Co., The, New York, N. Y. Miada Lingerie Guards For Comfort Neatness Security. For Lingerie Guards. 6,759; June 12.
Sloan, John A., Chicago, Ill. Mother's Bread. For Bread. 6,760; June 12.
Stark Dry Goods Co. (See Erlanger Dry Goods Company.)
Union Paper & Twine Co., The, Cleveland, Ohio. The Wonder Waterproof Wrapping Paper Boyce Perfection Fibre. For Waterproof Wrapping Paper. 6,761; June 12.
Williams, J. B., Company, The, Glastonbury, Conn. The "Never-Say-Dry" Lather. For Shaving Cream. 6,762; June 12.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ace Hardware Manufacturing Corporation, Philadelphia, Pa. Knife and edge-tool sharpening machines. 172,314; June 12.
Aeroshade Company, The, Waukesha, Wis. Porch and window shades. 178,016; June 12.
Akron-Selle Company, The, Akron, Ohio. Liquid gauges. 157,016; June 12.
Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel, Berlin, Germany. Pharmaceutical preparations for promoting the growth of hair. 171,565; June 12.
American Cotton Oil Company, The, New York, N. Y. Edible cottonseed, and vegetable oils. 177,812; June 12.
American Education Press, Inc., Columbus, Ohio. Name of a publication. 176,246; June 12.
American Fibre Chair Seat Corp., Long Island, N. Y. Fiber chair seat. 177,028; June 12.
American Larson Ventilating Co., Pittsburgh, Pa. Industrial ventilators for buildings, Manufacturing and industrial plants, etc. 178,157; June 12.
American Optical Company, Southbridge, Mass. Spectacles, eyeglasses, and ophthalmic lenses. 140,766; June 12.
Artsilk Knitting Mills, West New York, N. J. Silk and silk and cotton goods in piece. 168,348; June 12.
Asbestos, Limited, New York, N. Y. Plastic roofing compound, slate surface shingles, strip shingles, etc. 177,263; June 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Associated Editors, Chicago, Ill. Title for cartoons. 177,119; June 12.
Baggett, James A., doing business as Submarine Pyorrhea Co., Dallas, Tex. Tooth paste or dental cream. 179,452; June 12.
Barnhart, Williamson L., New York, and Babylon, N. Y. Printed articles and letters upon the subject of salesmanship. 175,379; June 12.
Barron-Gray Packing Co., San Jose, Calif. Canned fruits and vegetables and dried fruits. 177,819–20; June 12.
Bassick Company, The, Bridgeport, Conn. Door locks. 178,324; June 12.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 175,671; June 12.
Beautex Laboratories Company, The, Cleveland, Ohio. Vanishing, cleansing, and tissue creams, cream powder, rouge, etc. 176,817; June 12.
Bell, James W., & Co., Chicago, Ill. Monthly magazine. 175,594; June 12.
Biddle, Alice M., doing business as Carrolton Packing Co., Hanford, Calif. Dried fruit. 177,821; June 12.
Bollack, Robert, Paris, France. Veterinary remedies. 173,560; June 12.
Bond, Charles, Company, Philadelphia, Pa. Leather loom sundries. 178,588; June 12.
Bregstein, Nathan, Brooklyn, N. Y. Ladies' underwear made of textile fabrics. 171,250; June 12.
Brown, H. J., Medicine Company, The, Cleveland, Ohio. Remedies for tobacco habit, compositions for alleviating the injurious effects of nicotine, etc. 160,332; June 12.
Bruno, C., & Son, Inc., New York, N. Y. Musical instruments. 177,543; June 12.
Campe-Davis-Blair Co. Inc., New York, N. Y. Women's and girls' stockings and hosiery. 175,462; June 12.
Carrolton Packing Co. (See Biddle, Alice M.)
Cathcart, Herbert J., doing business as The Cathcart Company, New York, N. Y. Handkerchiefs. 177,545; June 12.
Cathcart, Herbert J., doing business as The Cathcart Company, New York, N. Y. Cotton piece goods. 177,546; June 12.
Cellas', Inc., New York, N. Y. Cottonseed oil. 178,090; June 12.
Champion Appliance Manufacturing Company, Inc., Yonkers, N. Y. Clothes-washing machines and clothes wringers. 176,399; June 12.
Checker Taxi Co., Chicago, Ill. Automobiles and taxicabs. 175,001; June 12.
Chemische Fabrik vormals Sandoz, Basel, Switzerland. Pharmaceutical preparations. 176,880; June 12.
Chemische Fabrik vormals Sandoz, Basel, Switzerland. Pharmaceutical preparation. 176,882; June 12.
Christopher, L. J., Co. Los Angeles, Calif. Candies. 177,958–9; June 12.
Clinton Motors Corporation, New York, N. Y. Motor trucks. 176,536; June 12.
Coaster Company, Salt Lake City, Utah. Hand sleds for snow and ice, interchangeable hand sleds with wheels, and toy wagons. 176,603; June 12.
Cole, William H., & Co., Ltd., Painswick, England. Notions and small wares. 167,973; June 12.
Colgate & Company, Jersey City, N. J. Soaps. 171,451; June 12.
Colonial Brass Works, Inc., The, New Britain, Conn. Hand valves for gas, steam, and water. 177,651–2; June 12.
Columbia Ave. Beauty Parlor. (See Holway, Sadie.)
Connolly, Henry G., Los Angeles, Calif. Aromatic oils for the treatment of disorders of the throat, lungs, etc. 176,952; June 12.
Coy, Hunt and Company, New York, N. Y. Paper. 179,399; June 12.
Cromwell, Robert H., doing business as Southern California Cosmetic Mfg. Co., Los Angeles, Calif. Preparation for imparting a glossy appearance to the hair. 176,074; June 12.
Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Condensed and evaporated milk. 178,376; June 12.
Danda-Halpern Co., Inc., New York, N. Y. Linens and decorated linens in the piece. 177,963; June 12.
Dayton Hosiery Mills, Dayton, Tenn. Hosiery. 172,524; June 12.
Delta Sigma Phi Fraternity, The, New York, N. Y. Quarterly publication. 153,715; June 12.
Diamond Laboratories, Inc., The, Seattle, Wash. Hair dressing. 176,791; June 12.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. 178,970–1; June 12.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. 178,973–9; June 12.
Dupuis-Rickman Engraving & Embossing Co., Chicago, Ill. Greeting cards. 157,560; June 12.
Durard Desk Mfg. Co., Los Angeles, Calif. Desks. 166,736; June 12.
Duryea Manufacturing Company, Bayonne, N. J. Belt dressing. 178,742; June 12.
Dyestuffs & Chemicals, Incorporated, St. Louis, Mo. Coal-tar dyes, colors, and intermediates. 176,789; June 12.
Easter Fish Company, Norfolk, Va. Fresh fish and oysters. 177,000; June 12.
Eastern Foundry Company, The, Boyertown, Pa. Cast-iron pipe and fittings and other plumbers' supplies. 178,095; June 12.
Estee Laboratories Co., Dallas, Tex. Hair dressing. 176,259; June 12.
Feinson, Joseph M., New York, N. Y. Cravats, mufflers, and men's lounging robes. 175,854; June 12.
Fellsway Rubber Co., Boston, Mass. Rubber pads for use in the textile and other industries. 178,337; June 12.
Ferguson and Lange Foundry Company, Chicago, Ill. Water-heating apparatus and parts thereof. 169,580; June 12.
Flash Chemical Company, Cambridge, Mass. Toilet soap. 176,334; June 12.
Fly-Hike Company, Springfield, Mo. Liquid preparation to prevent annoyance by flies and vermin on live stock. 176,959; June 12.
Foley & Company, Chicago, Ill. Hair oils. 176,261; June 12.
Foley & Company, Chicago, Ill. Tooth paste, glycerin, castor oil, essence of peppermint. 176,263; June 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,986; June 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,988; June 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,990–1; June 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 178,995–7; June 12.
Forster, Thomas E., doing business as T. E. Foster & Co., Neosho, Mo. Cleaning preparation for bathtubs, sinks, porcelain, marble, etc. 134,467; June 12.
Fort Worth Drilling Tool Company, Fort Worth, Tex. Cable drilling tools, rope sockets, bailers, etc. 175,857; June 12.
Fougera, E., & Co., New York, N. Y. Toilet powder. 177,038; June 12.
Frazer, Stuart F., Pittsburgh, Pa. Roofing materials. 171,417; June 12.
Friedlaender, Oscar O., Co., New York, N. Y. Illuminating glassware. 173,280; June 12.
Frost, Lorenzo S., doing business as L. S. Frost, Cambridge, Mass. Metal material for portable buildings and metal for doors and locks. 177,665; June 12.
Gennert, G., Inc., New York, N. Y. Albums. 175,423; June 12.
Germain Brothers Company, The, Saginaw, Mich. Type of toilet or closet seat. 172,874; June 12.
Giard, Philip, Shoe Company, Inc., The, Brockton, Mass. Boots and shoes. 173,886; June 12.
Gill, Warren D., Los Angeles, Calif. Tooth paste. 176,962; June 12.
Gisholt Machine Company, Madison, Wis. Lathes. 177,482; June 12.
Goethel, Alfred C., Co., The, Milwaukee, Wis. Skylights. 176,619; June 12.
Golden Pheasant, Inc., The, San Francisco, Calif. Candies. 178,385; June 12.
Grady Mfg. Co., The, Long Island City, N. Y. Polish for brass, copper, bronze, nickel, tin, etc. 175,353; June 12.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Electric hair-curling irons. 175,656; June 12.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. 157,922; June 12.
Heil Co., The, Milwaukee, Wis. Truck bodies. 176,466–71; June 12.
Herz, Alexander, doing business as The Hygeia Antiseptic Tooth Pick Co., New York, N. Y. Drinking straws. 167,567; June 12.
Hollbach, John, Company, Paterson, N. J. Woven mesh fabrics. 176,628; June 12.
Holway, Sadie, doing business as Columbia Ave. Beauty Parlor, Philadelphia, Pa. Face powders and creams, perfumes, rouges, etc. 177,299; June 12.
Hoosier Manufacturing Co., The, Indianapolis, Ind. Soap compounds. 179,371; June 12.
Hudson, J. L., Company, The, Detroit, Mich. Shoes made of leather, fabric, and combinations thereof. 167,917; June 12.
Hughes, Herbert E., Cincinnati, Ohio. Collection of motto cards. 177,127; June 12.
Hunter, W. N., and Co., Hot Springs, S. Dak. Ointment for treating eczema, salt rheum, etc. 177,128; June 12.
Hutchins Car Roofing Company, Detroit, Mich. Railroad-car roof. 177,660; June 12.
Hutt & Wasserman Inc., New York, N. Y. Men's hats. 176,418; June 12.
Hygeia Antiseptic Tooth Pick Co. (See Herz, Alexander.)
Inland Engineering Company, Chicago, Ill. Manganese-steel castings. 178,042; June 12.
International Worsted Mills, Methuen, Mass., and New York, N. Y. Tropical worsteds in the piece. 174,786; June 12.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

International Worsted Mills, Methuen, Mass., and New York, N. Y. Novelty worsted fabrics. 174,787; June 12.
Iron Clad Patch Laboratories Inc., New Orleans, La. Adhesive patches for automobile tires and inner tubes. 171,083; June 12.
Irvin, James R., Chicago, Ill. Tooth paste and liquid dentifrice. 176,188; June 12.
Johnston, Matthew R., doing business as M. R. Johnston Coffee Co., Baltimore, Md. Coffee. 178,256; June 12.
Kayser, Julius & Co., New York, N. Y. Gloves. 174,208; June 12.
Kil-Tone Company, The, Vineland, N. J. Insecticide 177,130; June 12.
Kleinschmidt Electric Co., Inc., Long Island City, N. Y. Telegraph apparatus. 168,894; June 12.
Kline, Edward A., doing business as E. A. Kline & Co., New York, N. Y. Cigars. 176,632; June 12.
Knox Pharmacal Company, Rockland, Me. Tonic for cats and kittens. 177,131; June 12.
Kraft Chemical Company, Oklahoma, Okla. Shoe polish containing a dye. 173,651; June 12.
Lace-Net Importing Co., New York, N. Y. Silk laces, silk and fiber and silk and wool laces. 169,766; June 12.
Lecithin Company, New York, N. Y. Medicinal composition for neurasthenic disorders. 176,839; June 12.
Levy, Jack, Inc., New York, N. Y. Dresses. 173,136; June 12.
Levy-Shulman & Co. Inc., New York, N. Y. Women's dresses. 172,996; June 12.
Lorraine Manufacturing Company, Pawtucket, R. I. Cotton goods in the piece. 178,749; June 12.
Luxite Laboratories, Kansas City, Mo. Pictures printed from camera negatives. 177,497; June 12.
Lyon & Healy, assignee to Lyon & Healy, Inc., Chicago, Ill. Musical instruments, merchandise, and goods. 144,290; June 12.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candy. 177,982; June 12.
McDowell, Charles, doing business as McDowell Paper Mills, Manayunk, Pa. Glassine, greaseproof, imitation parchments, writing, wrapping, etc., paper. 179,619; June 12.
Manhattan Knitting Mills, Inc., New York, N. Y. Sweaters. 175,431; June 12.
Marshall-Gerken Company, The, Toledo, Ohio. Electrical binding paste. 173,175; June 12.
Mattei, Andrew, Fresno, Calif. Fresh grapes and raisins. 178,266; June 12.
Matthews, Jas. H., & Company, Pittsburgh, Pa. Forged bodies for hand stamps, fullered forgings, and I forgings. 177,792; June 12.
Matth. Hohner Akt. Ges., Trossingen, Germany. Mouth harmonicas. 138,330; June 12.
Mende, Paul, Inc., New York, N. Y. Plaster. 175,433; June 12.
Merck & Co., New York, N. Y. Antirheumatic. 177,096; June 12.
Milton Manufacturing Company, The, Milton, Pa. Bolts, rivets, and spikes. 177,190; June 12.
Mound City Bottling Company, St. Louis, Mo. Beverage sold as a soft drink and syrups for making same. 173,845; June 12.
Muskegon Motor Specialties Company, Muskegon, Mich. Motor pistons. 177,749; June 12.
National Aniline & Chemical Company, Incorporated. Coal-tar crudes, intermediates, dyestuffs, dyes, etc. 174,971; June 12.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. 163,593; June 12.
National Hair Goods Co., Chicago, Ill. Hair nets. 159,048; June 12.
Nebraska Cement Company, Omaha, Nebr., and Denver, Colo. Portland cement. 177,687; June 12.
Nelson-Kirkwood, Laura, trustee of the estate of W. R. Nelson, deceased, Kansas City, Mo. Newspapers. 167,361; June 12.
New Process Cork Company, Brooklyn, N. Y. Bottle closures of the crown type. 160,076; June 12.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hand mirrors and picture frames. 160,898; June 12.
New York & Pennsylvania Company, Castanea Township, Clinton County, Pa., and New York, N. Y. Book paper in sheets and rolls. 167,922; June 12.
Oriental Silk Printing Company, Haledon, N. J. Silk piece goods. 179,318; June 12.
Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes, and soap powders. 171,867; June 12.
Parsons, Irving R., doing business as I. R. Parsons & Co., Chicago, Ill. Nail polish in powder form. 176,912; June 12.
Pennsylvania Soap Company of Lancester, Pa., Lancaster, Pa. Soaps. 176,277; June 12.
Pettitt & Bickford Company, Wayzata, Minn. Lever casings for bottoms of automobile bodies. 173,981; June 12.
Philip Morris & Co. Ltd., New York, N. Y. Cigarettes. 179,416; June 12.
Poole Engineering and Machine Company, Baltimore and Woodberry, Baltimore, Md. Power and hand operated washing machines. 179,428; June 12.
Ramapo Ajax Corporation, New York, N. Y. Track switches, switch stands, switch plates, and parts thereof. 178,357; June 12.
Reinhertz, Max I., doing business as Reinherts Mfg. Co., San Francisco, Calif. Men's pants. 171,957; June 12.
Reienvalen, D., Cleveland, Ohio. Advertising literature. 156,860; June 12.
Rex Window Advertising Co., Inc., New York, N. Y. Paper and cardboard signs, displays, and billboard sheets. 177,051; June 12.
Rice-Stix Dry Goods Company, St. Louis, Mo. Hosiery. 175,567; June 12.
Rite Form Corset Co. Inc., The, New York, N. Y. Corset steels. 175,107; June 12.
Ross Company, New York, N. Y. Preparation for treating the eyebrows and eyelashes. 176,764; June 12.
Rover Company, Limited, Coventry, England. Motor cars, bicycles, tricycles, motor cars. 173,009; June 12.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Fabrics in the piece, made wholly or in part of wool, worsted, mohair, etc. 159,120; June 12.
San Joaquin County Cherry Growers Assn., Stockton, Calif. Fresh cherries. 177,875; June 12.
Scat Chemical Company. (See Wilson, Wade H.)
Schlueter Manufacturing Co., St. Louis, Mo. Washboilers and galvanized washtubs. 172,904; June 12.
Schwartz, Rudolph, San Francisco, Calif. Cigars. 179,486; June 12.
Seiberling Rubber Company, Akron, Ohio. Soles and heels for boots and shoes. 164,564; June 12.
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys. 175,955; June 12.
Sifers, Harry I., doing business as The Sifers Confection Co., Kansas City, Mo. Candy. 178,067; June 12.
Silveira, Carmo & Companhia, Lisbon, Portugal. Sardines in oil. 169,130; June 12.
Société P. and A. Picard, Paris, France. Knobs, handles, and finger plates for doors. 177,144; June 12.
Southern California Cosmetic Mfg. Co. (See Cromwell, Robert H.)
Spring, C. G., Company, The, Kalamazoo, Mich. Bumpers. 177,072; June 12.
Springfield Seed Company, Springfield, Mo. Agricultural and grass seeds. 176,431; June 12.
Standard Parts Company, The, Cleveland, Ohio. Vehicle springs. 161,066; June 12.
Star Rubber Company, The, Akron, Ohio. Elastic vehicle tires and inner tubes for pneumatic tires. 164,559; June 12.
Stehli Silks Corporation, New York, N. Y. Broad silks in the piece and silk and cotton piece goods. 168,383; June 12.
Stein, S., & Co., New York, N. Y. Woolen cloths in the piece, for suiting, etc. 173,259; June 12.
Stein S., & Co., New York, N. Y. Woolen clothes in the piece for suitings, etc. 164,462; June 12.
Steiner, F. Mfg., Atzgersdorf, near Vienna, Austria. Carriage-lifting jacks, more especially hydraulics. 178,878; June 12.
Stephano Brothers, Philadelphia, Pa. Cigarettes. 178,636; June 12.
Stetelman, Louis, doing business as Supreme Products Company, Columbus, Ohio. Malt extract for food purpose. 178,298; June 12.
Stewart Corporation, Chicago, Ill. Writing and drawing surfaces. 178,880; June 12.
Submarine Pyorrhea Co. (See Baggett, James A.)
Summerour & Son, Vernon, Tex. Farm seeds. 171,773; June 12.
Sumonia, Milan M., doing business as Sumonia Candy Co., Omaha, Nebr. Candy. 178,682; June 12.
Supreme Products Company. (See Stetelman, Louis.)
Sweet, Dominick, doing business as The Sweet Manufacturing Company, Pittsburgh, Pa. General system tonic. 177,115; June 12.
Thompson, Joseph, Sioux City, Iowa. Hair dressing. 177,334; June 12.
Todd, Clarence S., doing business as Todd Drain-A-Tub, Kansas City, Mo. Rinsing and bluing tubs. 176,295; June 12.
Ulmann Bernhard Co. Inc., New York, N. Y. Yarns for knitting, etc. 176,376; June 12.
United Turkey Red Company Limited, The, Glasgow, Scotland. Cotton goods in the piece. 172,134; June 12.
Vary Knit Co., Inc., Union Hill, N. J., and New York, N. Y. Woven and knitted cotton, wool, etc., piece goods. 174,348; June 12.
Vitro Manufacturing Company, Pittsburgh, Pa. Oxides of cobalt, chromium, selenium, etc. 176,234; June 12.
Voss & Stern, New York, N. Y. Cotton piece goods. 160,316; June 12.

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Walther Manufacturing Co., Philadelphia, Pa. Worsted, woolen, and worsted and cotton, etc., piece goods. 179,176–7; June 12.
Wasmuth-Endicott Company, Andrews, Ind. Cabinets. 171,774; June 12.
Water-Witch Company, Lake Odessa, Mich. Artificial fish baits. 176,929; June 12.
White, J. J., Chicago, Ill. Face powders, creams, perfumes, toilet waters, etc. 177,027; June 12.
Williams Bros, Aircraft Corporation, San Francisco, Calif. Motor-vehicle accelerators. 177,570; June 12.
Wilson, John M., San Diego, Calif. Dental anæsthetic. 176,775; June 12.
Wilson, Wade H., doing business as Scat Chemical Company, Jacksonville, Fla. Medicinal preparation for the treatment of the nerves, kidneys, etc. 174,116; June 12.
Yellow Cab Manufacturing Co., Chicago, Ill. Monthly periodical. 178,082; June 12.
Zorro Tobacco Co., Inc., The, New York, N. Y. Smoking tobacco. 177,887; June 12.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Fur skins and pelts imitating seal. A. Pierini. 169,349; June 12; Serial No. 171,387; published Mar. 13, 1923.
Fur, skins, and pelts, Raw. A. Pierini. 169,350; June 12; Serial No. 171,388; published Mar. 13, 1923.

CLASS 4.

Polish, Stove. L. Nekritz. 169,410; June 12.
Tablets, Laundry. La France Manufacturing Co. 169,416; June 12.

CLASS 6.

Salves, pills, vermifuge, liniment, and cough balm. A. H. Gottschall. 22,471; renewed Feb. 14, 1923.
Sheep dips. Newton, Chambers & Company. 23,665; renewed Sept. 26, 1923.

CLASS 8.

Smokers' articles. M. E. Bernhardt. 169,199; June 12; Serial No. 169,394; published Mar. 13, 1923.

CLASS 11.

Ink and fluid, Writing. Guild Products Corporation. 169,228; June 12; Serial No. 165,545; published Mar. 6, 1923.

CLASS 12.

Asphalt and paving filler. Standard Oil Company. 169,351; June 12; Serial No. 171,663; published Mar. 27, 1923.
Bituminous compositions. Richardson Company. 169,299; June 12; Serial No. 167,017; published Mar. 27, 1923.
Brick. Stevens Brothers and Company. 169,326; June 12; Serial No. 174,705; published Mar. 27, 1923.
Bricks and special shapes of clay, tile, and brick, Refractory. American Refractories Company. 169,200–1; June 12; Serial Nos. 169,046–7; published Feb. 27, 1923.
Bricks, retorts, tiles, quarles, and other articles made of fire clay. Joseph Cowen & Co. 23,653; renewed Sept. 26, 1923.
Ceilings and side walls, pressed-brick siding, V-crimped roofing, etc., Metal. Olsen & Marggraf, Inc. 169,316; June 12; Serial No. 169,922; published Feb. 27, 1923.
Cements. Lava Crucible Company of Pittsburgh. 169,288; June 12; Serial No. 162,119; published Mar. 27, 1923.
Ceramic products for building purposes, face brick, terra cotta, etc. Ceramic Products Corp. 169,242; June 12; Serial No. 169,967; published Mar. 13, 1923.
Coal tar and roofing. Metropolitan Roofing Material Co. 169,294; June 12; Serial No. 165,555; published Mar. 27, 1923.
Construction materials for stone veneer for walls, building blocks, bricks, etc. J. W. Newman. 169,209; June 12; Serial No. 168,330; published Mar. 13, 1923.
Felt roofing and sheathing. Barrett Company. 169,149; June 12; Serial No. 160,992; published Feb. 27, 1923.
Flooring, Wood. Albemarle Mills Company. 169,338; June 12; Serial No. 173,312; published Mar. 27, 1923.
Gratings for floorings and staircases, Metal. Irving Iron Works Company. 169,336; June 12; Serial No. 173,490; published Mar. 27, 1923.
Insulating material, Felt. American Hair Felt Company. 169,332; June 12; Serial No. 174,354; published Mar. 27, 1923.
Lime. National Mortar and Supply Company of Pittsburg. 169,341; June 12; Serial No. 173,102; published Mar. 27, 1923.
Liquid for use with concrete and cement mixtures. Anti-Hydro Waterproofing Company. 169,330; June 12; Serial No. 174,423; published Mar. 27, 1923.
Paper, Roofing. A. R. Stansbury, Inc. 169,354; June 12; Serial No. 172,128; published Mar. 27, 1923.
Sound-deadening and insulating fabric, Sanitary. Richardson Company. 169,335; June 12; Serial No. 173,533; published Mar. 27, 1923.
Steel and reenforcing bars for concrete construction, Fabricated structural. Consolidated Steel Corporation. 169,138; June 12; Serial No. 155,485; published Mar. 13, 1923.
Weather strips. E. J. Wirfs. 169,342; June 12; Serial No. 170,230; published Mar. 27, 1923.

CLASS 13.

Carburetors. I. R. Zarracina. 169,184; June 12; Serial No. 172,711; published Mar. 27, 1923.
Casters, Plates for. Bassick Company. 169,359; June 12; Serial No. 172,505; published Mar. 27, 1923.
Cocks. Red Hed Mfg. Co. 169,346–7; June 12; Serial Nos. 170,787–8; published Mar. 20, 1923.
Culinary, household, and dairy utensils, Metal. Lisk Manufacturing Company. 169,178; June 12; Serial No. 169,860; published Mar. 20, 1923.
Shields, Expansion. Star Expansion Bolt Company. 169,358; June 12; Serial No. 172,448; published Mar. 20, 1923.
Traps, trap ferrules, cleanouts, pipe fittings, insertable joints, etc. J. A. Zurn. 169,169; June 12; Serial No. 167,544; published Mar. 20, 1923.

CLASS 14.

Alloy, Nonferrous casting. Kent-Owens Machine Company. 169,295; June 12; Serial No. 166,077; published Mar. 20, 1923.
Alloys, Aluminum. A. Pacz. 169,277; June 12; Serial No. 144,977; published Mar. 27, 1923.
Iron or steel, Certain article of. Consolidated Steel Corporation. 169,266; June 12; Serial No. 155,486; published Mar. 20, 1923.
Sheets and tin plate, Black and galvanized. Consolidated Steel Corporation. 169,303; June 12; Serial No. 167,935; published Mar. 20, 1923.
Steels, Tool, carbon, shear, mild, etc. Samuel Warren Limited. 169,217; June 12; Serial No. 152,599; published Mar. 20, 1923.

CLASS 15.

Candles, Stearin or stearic acid, oleine, and glycerin. De Roubaix, Oedenkoven & Co. 23,528; renewed Aug. 22, 1923.

CLASS 17.

Cigarettes. M. S. Jordanides. 169,233; June 12; Serial No. 173,328; published Mar. 20, 1923.
Tobacco, Twist. J. D. Walker. 22,425; renewed Feb. 7, 1923.

CLASS 19.

Automobile accessories. Haines Manufacturing Corporation. 169,203; June 12; Serial No. 168,888; published Mar. 13, 1923.
Automobile accessories. Haines Manufacturing Corporation. 169,310; June 12; Serial No. 168,889; published Mar. 13, 1923.
Automobile springs, Covers for. Dasco Spring Cover Co. 169,147; June 12; 159,854; Mar. 13, 1923.
Automobile sunbeam visor. Thoma & Son, Inc. 169,282; June 12; Serial No. 158,460; published Mar. 13, 1923.
Axles for motor-driven vehicles and parts of such axles, Variable-speed. Perfecto Gear Differential Co. 169,273; June 12; Serial No. 148,296; published Mar. 27, 1923.
Bicycles. Westfield Manufacturing Company. 169,254; June 12; Serial No. 171,050; published Feb. 27, 1923.
Bicycles, automobiles, motor cycles, tricycles, and bicyclettes. La Societe Anonyme des Automobiles Unic. 169,166; June 12; Serial No. 167,249; published Mar. 13, 1923.
Cars. Koppel Industrial Car & Equipment Company. 169,155–8; June 12; Serial Nos. 165,447–50; published Mar. 13, 1923.
Cars, Motor. Grant Motor Car Corporation. 169,133; June 12; Serial No. 132,337; published Feb. 27, 1923.
Conveyances for children, Hand-propelled. Filbert-Greer Manufacturing Company. 169,241; June 12; Serial No. 165,077; published Mar. 13, 1923.
Motor cycles. Ace Motor Corporation. 169,284; June 12; Serial No. 175,908; published Mar. 13, 1923.
Trucks and structural parts thereof, Elevating industrial. Baker R & L Company. 169,206; June 12; Serial No. 168,705; published Mar. 13, 1923.
Trucks, Motor. J. H. Pierce. 169,134; June 12; Serial No. 138,098; published Mar. 27, 1923.

Trucks, Motor-propelled. Clark Tructractor Company. 169,144; June 12; Serial No. 157,136; published Feb. 27, 1923.
Vans or trucks, Moving. W. B. Hiner. 169,251; June 12. Serial No. 170,920; published Mar. 13, 1923.
Vehicle axles and wheels, mounted wheels, and metal tires. Consolidated Steel Corporation. 169,151; June 12; Serial No. 162,382; published Mar. 13, 1923.
Vehicles, Spark and throttle control levers for motor. Henry's Handy Handles Co. 169,165; June 12; Serial No. 167,176; published Mar. 13, 1923.
Wheelbarrows and concrete carts, Tubular and contractors'. Akron Barrow Company. 169,136; June 12; Serial No. 154,909; published Mar. 13, 1923.

CLASS 21.

Batteries, Small storage. Grier-Sutherland Co. 169,406; June 12.
Batteries, Storage. Advance Battery Manufacturing Company. 169,405; June 12; Serial No. 154,633; published Mar. 27, 1923.
Brooders, Electrically-heated. H. H. Hall. 169,400; June 12; Serial No. 161,925; published Mar. 27, 1923.
Cleaners, Electric vacuum. Air Way Company. 169,281; June 12; Serial No. 126,441; published May 11, 1920.
Electric conductors, wires, and cables. Boston Insulated Wire and Cable Co. 169,286; June 12; Serial No. 160,534; published July 18, 1922.
Engines, Spark timers for internal-combustion. E. W. Turner. 169,236; June 12; Serial No. 173,302; published Mar. 6, 1923.
Fire-prevention apparatus and systems and parts thereof. Pacific Fire Extinguisher Company. 169,231; June 12; Serial No. 167,414; published Jan. 9, 1923.
Flash lights. Ivar-Lite Corporation. 169,284; June 12; Serial No. 159,704; published Sept. 26, 1922.
Lampstands or bases and fixtures therefor. Electric. Jefferson Company. 169,250; June 12; Serial No. 170,768; published Mar. 6, 1923.
Lamps, Portable and nonportable electrical. S. Frost. 169,264; June 12; Serial No. 155,999; published Sept. 26, 1922.
Lightning rods. George E. Thompson Lightning Rod Co. 169,408; June 12.
Radio apparatus, parts and supplies. A. J. Meyer Mfg. Co. 169,296; June 12; Serial No. 165,755; published Mar. 6, 1923.
Radio receiving sets and parts thereof. R-W Manufacturing Co. 169,238; June 12; Serial No. 172,357; published Mar. 6, 1923.
Radiosignaling, Electric apparatus for. Federal Institute of Radio Telegraphy. 169,245; June 12; Serial No. 170,633; published Feb. 27, 1923.
Spotlights, mountings and parts thereof. Thal & Bitter Machine Co. 169,337; June 12; Serial No. 173,450; published Mar. 6, 1923.
Stoves, Electrical cook. W. B. McAllister Company. 169,404; June 12; Serial No. 154,987; published Mar. 27, 1923.
Wireless telephone and telegraph receiving instruments. Sound amplifiers for. M. W. Hirshfield. 169,387; June 12; Serial No. 168,529; published Mar. 27, 1923.

CLASS 22.

False faces, toy mustaches and beards, toy wigs, etc. Dessart Brothers Inc. 169,185-7; June 12; Serial Nos. 172,979-81; published Mar. 20, 1923.
Fishing lines. Newton Line Company. 169,434; June 12.
Games, Indoor golf. Modern Devices, Inc. 169,191; June 12; Serial No. 175,097; published Mar. 27, 1923.
Golf clubs. Golf Specialty Manufacturing Company. 169,152; June 12; Serial No. 163,753; published Mar. 20, 1923.
Tennis-racket strings. A. G. Spalding & Bros. 169,189; June12; Serial No. 173,541; published Mar. 20, 1923.
Toy construction sets. A. C. Gilbert Company. 169,192; June 12; Serial No. 175,192; published Mar. 27, 1923.
Toys, Paper and wooden. K. S. Wilson. 169,279; June 12; Serial No. 141,139; published Feb. 20, 1923.

CLASS 23.

Axes. Momsen-Dunnegan-Ryan Co. 169,243; June 12; Serial No. 170,074; published Mar. 20, 1923.
Bearings, Babbitt. Watkins Manufacturing Company. 169,340; June 12; Serial No. 173,113; published Mar. 20, 1923.
Bottle cappers. Comstock-Bolton Company. 169,269; June 12; Serial No. 154,350; published Mar. 20, 1923.
Braiding machines. National Indicator Company. 169,361; June 12; Serial No. 172,896; published Mar. 27, 1923.
Carburetor, Fuel control or regulator for a. E. E. Ford Mfg. Co. 169,240; June 12; Serial No. 172,150; published Mar. 20, 1923.
Cutlery. Estate of Frederick Wiebusch. 23,639; renewed Sept. 19, 1923.
Files and rasps. C. O. Oberg & Co:s Aktiebolaget. 169,287; June 12; Serial No. 161,641; published Mar. 20, 1923.
Foundry equipment, Certain articles of. Truscon Steel Company. 169,232; June 12; Serial No. 167,697; published Mar. 20, 1923.
Grease cups. Foster Engineering Company. 169,329; June 12; Serial No. 174,568; published Mar. 20, 1923.
Grinding machines and parts of same. J. C. Schmidt. 169,224; June 12; Serial No. 159,626; published Mar. 20, 1923.
Jacks. Kent Machine Works, Inc. 169,327; June 12; Serial No. 174,578; published Mar. 20, 1923.
Metal cutters. H. Scott. 169,259; June 12; Serial No. 172,016; published Mar. 20, 1923.
Milling fixtures, cutters, and machines, etc. Ingersoll Milling Machine Company. 169,221; June 12; Serial No. 154,194; published Mar. 27, 1923.
Molding and planing irons, rock and twist drills, milling cutters, etc. Samuel Warren Limited. 169,218; June 12; Serial No. 152,600; published Mar. 20, 1923.
Molds for the manufacture of alimentary pastes. F. Maldari & Bros. 169,323; June 12; Serial No. 175,018; published Mar. 20, 1923.
Paper cutter, Gravity. D. Linette. 169,331; June 12; Serial No. 174,400; published Mar. 20, 1923.
Planers, boring, milling, and drilling machines, hydraulic presses, etc. Consolidated Steel Corporation. 169,265; June 12; Serial No. 155,487; published Mar. 20, 1923.
Plowshares, plows, cultivators, corn planters, disk harrows. Sears, Roebuck and Co. 169,322; June 12; Serial No. 175,109; published Mar. 20, 1923.
Razors, pocketknives, and scissors. Union Cutlery Co. 169,258; June 12; Serial No. 171,714; published Mar. 20, 1923.
Rim and tire tools. Marquette Manufacturing Company. 169,353; June 12; Serial No. 172,049; published Mar. 27, 1923.
Sewing machines, Straw-. Durbrow & Hearne. 169,324; June 12; Serial No. 174,823; published Mar. 20, 1923.
Sewing machines, Straw-. Durbrow & Hearne. 169,325; June 12; Serial No. 174,821; published Mar. 20, 1023.
Signal and direction-indicating device, Vacuum-operated mechanical stop. Automobile Appliances Co. 169,252; June 12; Serial No. 170,923; published Mar. 20, 1923.
Steam generators. Babcock & Wilcox Company. 23,692; renewed Oct. 10, 1923.
Tractors, Sawing attachments for. O. W. Johnson. 169,362; June 12; Serial No. 175,147; published Mar. 20, 1923.
Wheel dressers, Emery-. G. McConnell. 169,239; June 12; Serial No. 172,279; published Mar. 20, 1923.
Wrenches. Bonney Forge & Tool Works. 169,360; June 12; Serial No. 172,633; published Mar. 27, 1923.
Wrenches, hammers, pliers, and pincers, Mechanics'. Bangert Improved Tool Co. 169,262; June 12; Serial No. 158,073; published Mar. 20, 1923.

CLASS 24.

Clothes wringers. American Wringer Company. 23,635; renewed Sept. 19, 1923.
Clothes wringers and driers. American Wringer Company. 23,636; renewed Sept. 19, 1923.
Laundry drier, Heated-cabinet. Williamson Heater Company. 169,313; June 12; Serial No. 169,461; published Feb. 27, 1923.
Woodenware. P. C. Holmquist. 169,272; June 12; Serial No. 151,760; published Feb. 27, 1923.

CLASS 26.

Level indicators, Liquid-. Porter Electric Carbureter Inc. 169,223; June 12; Serial No. 158,142; published Mar. 20, 1923.
Picture films, Motion-. O. C. Getsinger. 169,171; June 12; Serial No. 168,261; published Mar. 20, 1923.

CLASS 27.

Watchcases. Fahys Watch Case Co. 22,968; renewed May 9, 1923.
Watchcases. Morays Watch Case Co. 169,352; June 12; Serial No. 171,762; published Feb. 27, 1923.

CLASS 28.

Aquamarines. L. M. Zell. 169,356; June 12; Serial No. 172,193; published Feb. 27, 1923.
Rings, Finger. Glaser Bros. 169,339; June 12; Serial No. 173,188; published Feb. 27, 1923.
Silver-plated hollow and flat ware. A. Cohen & Sons. 169,428; June 12.

CLASS 31.

Refrigerators. C. V. Hill & Co. Inc. 169,180; June 12; Serial No. 170,247; published Mar. 20, 1923.

CLASS 34.

Furnaces, Warm-air. W. G. McPherson Company. 169,237; June 12; Serial No. 172,626; published Mar. 13, 1923.
Heat-generating plants. Winslow Boiler & Engineering Co. 169,146; June 12; Serial No. 158,025; published Feb. 27, 1923.
Heaters, fire pots, annealing furnaces, etc., Asphalt surface and kettle. Hauck Manufacturing Company. 169,208; June 12; Serial No. 168,365; published Mar. 20, 1923.
Heaters, Gas. G. F. Schmidt. 169,143; June 12; Serial No. 157,078; published Mar. 20, 1923.
Lanterns, Decorative. W. S. Lafans. 169,253; June 12; Serial No. 170,980; published Mar. 27, 1923.
Locomotive spark catcher. E. Bronson. 169,145; June 12; Serial No. 157,206; published Mar. 13, 1923.

Ranges, Gas. A-B Stove Company. 169,260; June 12; Serial No. 172,073; published Mar. 13, 1923.
Ranges, stoves, and pipeless furnaces. Fries, Beall & Sharp Co. 169,198; June 12; Serial No. 169,587; published Mar. 13, 1923.
Stoves and Ranges. Abram Cox Stove Company. 169,159; June 12; Serial No. 165,619; published Mar. 13, 1923.
Water heaters, Gas. Bastian-Morley Co. 169,235; June 12; Serial No. 178,951; published Mar. 13, 1923.

CLASS 35.

Automobile tubes, Patches for. Wear-Ever Patch Mfg. Co. 169,193; June 12; Serial No. 169,941; published Feb. 27, 1923.
Belts, Leather. Texas Belting Company. 169,317; June 12; Serial No. 169,938; published Mar. 27, 1923.
Casings and tires, reliners, repair-patches, etc. Federal Rubber Company. 169,276; June 12; Serial No. 146,884; published Nov. 22, 1921.
Packing and asbestos belting used as brake lining, Rod, piston-rod, piston, etc. Johns-Manville, Incorporated. 169,170; June 12; Serial No. 167,818; published Mar. 13, 1923.
Packing, Metallic. Metalastic Company. 169,167; June 12; Serial No. 167,310; published Feb. 27, 1923.
Packings formed of vulcanized fabric, Cup. Montpelier Manufacturing Company. 169,139; June 12; Serial No. 155,510; published Feb. 27, 1923.
Rubber hose and belting. New York, Rubber Company. 169,148; June 12; Serial No. 160,828; published Feb. 27, 1923.
Tires and inner tubes, Pneumatic vehicle. India Tire and Rubber Company. 169,141; June 12; Serial No. 155,757; published Mar. 13, 1923.
Tires and tubes, Rubber vehicle. Hood Rubber Company. 169,179; June 12; Serial No. 169,674; published Mar. 20, 1923.
Tires, inner tubes, etc., Vehicle. Ideal Tire and Rubber Company. 169,302; June 12; Serial No. 167,817; published Mar. 27, 1923.
Tires, outside and inside tire sleeves, etc., Vehicle. Federal Rubber Company. 169,274; June 12; Serial No. 146,898; published Nov. 22, 1921.
Tires, packing, inner tubes, etc., Vehicle. Federal Rubber Company. 169,275; June 12; Serial No. 146,891; published Nov. 22, 1921.
Tires, Pneumatic. Willys-Overland Company. 169,131; June 12; Serial No. 123,149; published Feb. 27, 1923.
Tires, Resilient vehicle. Kelly-Springfield Tire Co. 169,306; June 12; Serial No. 168,046; published Mar. 27, 1923.
Tires, tire casings, inner tubes, Rubber. General Tire and Rubber Company. 169,130; June 12; Serial No. 114,161; published Feb. 27, 1923.
Transmission linings. L. L. Libby. 169,142; June 12; Serial No. 156,284; published Mar. 13, 1923.
Tubes, Pneumatic. North American Process Company. 169,194; June 12; Serial No. 169,919; published Feb. 27, 1923.

CLASS 36.

Organs, accordions, flutes, and flageolets, Mouth. M. F. Albert. 169,176; June 12; Serial No. 169,488; published Mar. 6, 1923.
Phonographs. Outing Talking Machine Co. 169,414; June 12.
Phonographs. H. A. Robbins. 169,357; June 12; Serial No. 172,439; published Feb. 27, 1923.
Phonographs and other talking machines, Reproducers for. Clarnvox Company. 169,183; June 12; Serial No. 172,583; published Mar. 6, 1923.
Pianos. H. C. Bay Company. 169,188; June 12; Serial No. 173,069; published Mar. 6, 1923.
Ukulele and banjo pegs, ukulele, mandolin, banjo, and guitar tailpieces, etc. Waverly Musical Products Co. 169,190; June 12; Serial No. 174,601; published Mar. 6, 1923.

CLASS 37.

Paper. John Dickinson & Co. 23,516; renewed Aug. 22, 1923.
Paper and paper towels, Toilet. Rushmore Paper Mills, Inc. 169,367; June 12; Serial No. 175,272; published Mar. 27, 1923.
Paper, Cover. Peninsular Paper Company. 169,182; June 12; Serial No. 172,554; published Mar. 20, 1923.
Paper, Craft. Aktiebolaget Mölnbacka-Trysil. 169,364; June 12; Serial No. 175,178; published Mar. 27, 1923.
Paper, mailing envelopes, tablets, etc., Writing. Smith Tablet Company. 169,365; June 12; Serial No. 175,219; published Mar. 27, 1923.
Paper, Toilet. Northern Paper Mills. 169,174; June 12; Serial No. 169,074; published Mar. 20, 1923.
Paper, Wall. Becker, Smith & Page, Inc. 169,333; June 12; Serial No. 173,619; published Mar. 27, 1923.
Paper weights, inkwells, etc. Pup Toys Company. 169,363; June 12; Serial No.175,157; published Mar. 27, 1923.
Paper, Writing. Byron Weston Company. 169,355; June 12; Serial No. 172,142; published Mar. 27, 1923.
Paper, Writing. Cincinnati Cordage & Paper Co. 169,328; June 12; Serial No. 174,555; published Mar. 27, 1923.
Penholders and black and colored pencils. H. Dunwoody. 169,216; June 12; Serial No. 150,154; published Mar. 20, 1923.
Pens, Fountain. Salz Bros. Inc. 169,334; June 12; Serial No. 173,611; published Mar. 27, 1923.
Tablets and book covers. Smith Tablet Company. 169,366; June 12; Serial No. 175,220; published Mar. 27, 1923.

CLASS 39.

Apparel for men and women, Wearing. Rosenwald & Weil. 169,388; June 12; Serial No. 168,070; published Jan. 9, 1923.
Aprons, Women's. E. Roth. 169,430; June 12.
Arm bands. A. Stein & Company. 169,381; June 12; Serial No. 171,475; published Mar. 20, 1923.
Bathing suits. Niagara Knitting Mills Corp. 169,426; June 12.
Blouses, Boys'. M. Finkelson. 169,230; June 12; Serial No. 167,351; published Mar. 13, 1923.
Boots and shoes. Curtis Shoe Company. 169,374; June 12; Serial No. 169,703; published Mar. 13, 1923.
Boots and shoes. Rich Shoe Company. 169,418; June 12.
Boots and shoes, Leather. Neenah Shoe Company. 169,429; June 12.
Boots and shoes, Leather. A. W. Smith Shoe Company. 169,401; June 12; Serial No. 160,159; published Mar. 20, 1923.
Boots, shoes, slippers, and sandals. B. Friedman. 169,412; June 12.
Caps for men and boys. Beck & Belaief. 169,394; June 12; Serial No. 165,910; published Mar. 6, 1923.
Clothing. Jordan Marsh Company. 169,290; June 12; Serial No. 164,437; published Mar. 20, 1923.
Clothing, Handmade silk. C. R. Tannehill. 169,308; June 12; Serial No. 168,499; published Mar. 20, 1923.
Clothing, Men's and young men's. P. H. Davis Tailoring Company. 169,214; June 12; Serial No. 146,069; published Dec. 20, 1923.
Coats, cloaks, wraps, capes, suits, dresses, etc. Salt's Textile Manufacturing Company. 169,293; June 12; Serial No. 165,313; published Mar. 20, 1923.
Corset waists. Marshall Field & Company. 169,419; June 12.
Dresses. Schwartz-Singer Co. 169,321; June 12; Serial No. 170,219; published Mar. 20, 1923.
Furnishings, Men's. M. Berg. 169,379; June 12; Serial No. 171,118; published Mar. 6, 1923.
Gloves, Fabric. Wimelbacher & Rice. 169,422; June 12.
Hats. J. K. von Gal Hat Company. 169,413; June 12.
Hats and caps, Men's and boys'. Scranton Cap Manufacturing Company. 169,409; June 12.
Hats and caps. M. Simon & Son. 169,270; June 12; Serial No. 152,385; published Mar. 20, 1923.
Hats, caps, and bonnets, Infants' and children's. J. Hildesheimer Co. 169,392; June 12; Serial No. 166,074; published Mar. 6, 1923.
Hats for women and misses. Cohn & Kaplan. 169,393; June 12; Serial No. 166,039; published Mar. 6, 1923.
Hats, Men's. H. Friedman Hat Co. 169,407; June 12.
Heel guards for shoes. Achilles Guard Company. 169,373; June 12; Serial No. 169,698; published Mar. 6, 1923.
Hosiery. American Wholesale Corporation (Baltimore Bargain House.) 169,423; June 12.
Hosiery. Margolis Yelen Kaiser Co. Inc. 169,267; June 12; Serial No. 155,231; published Mar. 20, 1923.
Hosiery. W. C. Van Brunt. 169,268; June 12; Serial No. 154,422; published Mar. 6, 1923.
Hosiery for women and misses. Rockland Hosiery Mills. 169,415; June 12.
Hosiery, underwear, and sweaters. M. Solomon. 169,319; June 12; Serial No. 170,099; published Mar. 20, 1923.
Knitted and textile undergarments, Women's. The Fair. 169,292; June 12; Serial No. 164,881; published Mar. 20, 1923.
Knitted goods. F. Block. 169,314; June 12; Serial No. 169,528; published Mar. 20, 1923.
Knitted sweaters. Gotham Knitting Mills. 169,318; June 12; Serial No. 170,064; published Mar. 20, 1923.
Neckties. A. Schreter. 169,175; June 12; Serial No. 169,331; published Mar. 20, 1923.
Overalls, pants, shirts. Oklahoma Garment Manufacturing Co. 169,215; June 12; Serial No. 149,348; published Mar. 13, 1923.
Overcoats, suits, coats, and pants, Men's and boys'. Samuel Spitz & Sons, Inc. 169,403; June 12; Serial No. 157,695; published Mar. 20, 1923.
Rubber boots and shoes. Goodyear Rubber Company. 169,411; June 12.
Rubber heels and soles, rubbers, overshoes, and rubber shoes. Alfred Hale Rubber Company. 169,375; June 12; Serial No. 169,953; published Mar. 20, 1923.
Scarfs and neckties. Gropper Knitting Mills, Inc. 169,420; June 12.
Shirts and pyjamas, Dress. Goldstein and Fisher Co. 169,427; June 12.
Shirts, collars, pyjamas, and nightshirts. Phillips-Jones Corporation. 169,173; June 12; Serial No. 169,033; published Mar. 20, 1923.
Shirts, Neckbands for men's. C. W. Lifschitz. 169,300; June 12; Serial No. 166,627; published Mar. 20, 1923.
Shirts, Negligee. Jackson & Gutman Company. 169,432; June 12.

Shoes. J. Berkowits. 169,368; June 12; Serial No. 169,149; published Dec. 19, 1922.
Shoes. Hochschild, Kohn & Co. 169,421; June 12.
Shoes. M. A. Packard Company. 169,384; June 12; Serial No. 171,865; published Mar. 20, 1923.
Shoes. Riley shoe Manufacturing Company. 169,431; June 12.
Shoes and boots, Leather. F. P. Kirkendall & Co. 169,377; June 12; Serial No. 170,488; published Mar. 20, 1923.
Shoes and slippers. B-B Shoe Company. 169,383; June 12; Serial No. 171,891; published Mar. 20, 1923.
Shoes, boots, and slippers. Apel-Schneider Co. 169,372; June 12; Serial No. 169,667; published Mar. 6, 1923.
Shoes, Leather. H. M. Johnson Company. 169,371; June 12; Serial No. 169,455; published Mar. 20, 1923.
Shoes, Leather. F. Mayer Boot & Shoe Co. 169,376; June 12; Serial No. 170,206; published Mar. 6, 1923.
Suits, Boys' camp. Samuel D. Karp, Inc. 169,291; June 12; Serial No. 164,501; published Mar. 20, 1923.
Suits, Children's. W. Hecht. 169,150; June 12; Serial No. 162,816; published Mar. 27, 1923.
Suits, coats, and dresses, Ladies'. N. Brody & Co. 169,177; June 12; Serial No. 169,527; published Mar. 20, 1923.
Suits, Men's. Levine Brothers. 169,433; June 12.
Suits, Men's and young men's. Leitchfield Clothing Co. 169,315; June 12; Serial No. 169,639; published Mar. 20, 1923.
Suits, Men's and young men's serge. B. Mandel's Sons. 169,172; June 12; Serial No. 168,539; published Mar. 20, 1923.
Suits, sweaters, sport coats and coats, caps, and mufflers. Kling Bros. & Co. Inc. 169,283; June 12; Serial No. 159,209; published Mar. 20, 1923.
Suspenders. A. Stein & Company. 169,385; June 12; Serial No. 172,129; published Mar. 20, 1923.
Undergarments, house and lounging robes, pyjamas. F. F. Muller. 169,397; June 12; Serial No. 163,281; published Mar. 6, 1923.
Vests, coats, trousers, and overcoats. Goodlow Corporation. 169,425; June 12.

CLASS 40.

Snap fasteners. Kramish Bros. 169,424; June 12.

CLASS 42.

Cotton goods. Massachusetts Cotton Mills. 23,019; renewed May 16, 1923.

CLASS 45.

Beverage sold as a soft drink and sirups for making same. Los Angeles Ice & Cold Storage Co. 169,390; June 12; Serial No. 167,404; published Oct. 10, 1922.
Extract used in the preparation of soft drinks. A. L. Voge. 169,181; June 12; Serial No. 172,406; published Mar. 27, 1923.

CLASS 46.

Candy. Euclid Candy Company. 169,278; June 12; Serial No. 144,611; published Mar. 27, 1923.
Candy. McDowell, Tyle & Co. 169,248; June 12; Serial No. 170,723; published Mar. 27, 1923.
Candy. O. A. McQuillan. 169,370; June 12; Serial No. 169,452; published Mar. 27, 1923.
Candy. Marshall Candy Company. 169,256; June 12; Serial No. 171,227; published Mar. 27, 1923.
Candy. A. B. Mewhinney Co. 169,289; June 12; Serial No. 162,562; published Mar. 27, 1923.
Candy. Rood Candy Co. 169,255; June 12; Serial No. 171,188; published Mar. 27, 1923.
Candy. U. R. S. Candy Stores, Inc. 169,135; June 12; Serial No. 154,675; published Mar. 27, 1923.
Candy. H. Waterman. 169,162; June 12; Serial No. 166,425; published Mar. 27, 1923.
Candy and confections. The Touraine Company. 169,132; June 12; Serial No. 127,669; published Apr. 20, 1920.
Candy, Bar. Val. Blatz, Jr., Candy Co. 169,309; June 12; Serial No. 167,528; published Mar. 27, 1923.
Canned cherries, June peas, salmon, etc. Otto Muhlbauer & Co. 169,391; June 12; Serial No. 166,466; published Mar. 27, 1923.
Canned fish. Van Camp Sea Food Company. 169,348; June 12; Serial No. 171,343; published Mar. 27, 1923.
Canned fruits. Kings County Packing Co. 169,210; June 12; Serial No. 168,044; published Mar. 27, 1923.
Canned fruits. Kings County Packing Co. 169,305; June 12; Serial No. 168,043; published Mar. 27, 1923.
Canned fruits. Mt. Angel Producers Packing Co. 169,246; June 12; Serial No. 170,689; published Mar. 27, 1923.
Canned fruits. Thomas Body Co. 169,304; June 12; Serial No. 168,020; published Mar. 27, 1923.
Canned fruits. George Wills & Sons, Ltd. 169,396; June 12; Serial No. 163,721; published Mar. 27, 1923.
Canned fruits and vegetables. Atascadero Fruit Exchange. 169,257; June 12; Serial No. 171,300; published Mar. 27, 1923.
Canned fruits and vegetables. Kings County Packing Company. 169,207; June 12; Serial No. 168,418; published Mar. 27, 1923.
Canned fruits and vegetables and spices. J. E. Grosberg. 169,343; June 12; Serial No. 170,683; published Mar. 27, 1923.
Canned fruits and vegetables, etc. National Packing Corporation. 169,309; June 12; Serial No. 168,780; published Mar. 27, 1923.
Canned fruits, olives, fruit jams. Virden Packing Company. 169,140; June 12; Serial No. 155,716; published Mar. 27, 1923.
Canned fruits, vegetables, and fish. Bay Side Canning Company. 169,386; June 12; Serial No. 168,751; published Mar. 27, 1923.
Canned fruits, vegetables, fish, and jam. George Wills and Sons, Ltd. 169,398; June 12; Serial No. 163,159; published Mar. 27, 1923.
Canned ripe olives, artichokes, tunny fish, pimientos, etc. Curtis Corporation. 169,417; June 12.
Canned sardines. F. H. Fromm. 169,285; June 12; Serial No. 159,747; published Mar. 27, 1923.
Canned tomato sauce. Joseph Petrocelli & Co. 169,311; June 12; Serial No. 169,182; published Mar. 27, 1923.
Canned vegetables, beans and pork, flavoring extracts, etc. John Sexton and Company. 169,220; June 12; Serial No. 153,625; published Mar. 20, 1923.
Chewing gum. L. P. Larson, Jr., Company. 169,205; June 12; Serial No. 168,769; published Mar. 27, 1923.
Chocolates, Boxes of assorted. Allegretti Chocolate Cream Co. 169,137; June 12; Serial No. 155,469; published Aug. 1, 1922.
Coffee. Arbuckle Brothers. 169,297; June 12; Serial No. 166,162; published Mar. 27, 1923.
Coffee and tea. C. H. Kroneberger & Co. 169,226; June 12; Serial No. 165,085; published Mar. 20, 1923.
Coffee. Palmetto Coffee Co. 169,380; June 12; Serial No. 171,381; published Mar. 27, 1923.
Confection, Mint. L. P. Larson, Jr., Company. 169,204; June 12; Serial No. 168,770; published Mar. 27, 1923.
Confectionery in the form of frozen dainties. F. C. Colucci. 169,229; June 12; Serial No. 166,290; published Mar. 20, 1923.
Flour, Wheat. Black Bros. Flour Mills. 169,382; June 12; Serial No. 171,609; published May 1, 1923.
Food preparations. H. B. Hunter. 169,227; June 12; Serial No. 165,444; published Mar. 20, 1923.
Fruits and vegetables, Fresh. Haley-Neeley Company. 169,389; June 12; Serial No. 168,037; published Mar. 27, 1923.
Grapes, Fresh. Associated Growers Inc. 169,263; June 12; Serial No. 157,402; published Mar. 27, 1923.
Ice cream. Dryden Corporation. 169,378; June 12; Serial No. 170,680; published Mar. 27, 1923.
Invertase used in making sugar sirups. American Buttonizing Company and Wallerstein Laboratories. 169,298; June 12; Serial No. 166,340; published Mar. 27, 1923.
Lard and substitute and shortening. Southern Cotton Oil Company. 169,222; June 12; Serial No. 158,062; published Mar. 20, 1923.
Malt extract. Primalt Products Co. 169,168; June 12; Serial No. 167,418; published Mar. 27, 1923.
Malt extract for food purposes. M. A. Hurwitz. 169,345; June 12; Serial No. 170,777; published Mar. 27, 1923.
Milk culture. Lacteal Analytical Laboratories, Inc. 169,196; June 12; Serial No. 169,767; published Mar. 27, 1923.
Milk, Fermented bottled. Lederle Antitoxin Laboratories. 169,164; June 12; Serial No. 167,136; published Mar. 27, 1923.
Molasses. Penick & Ford, Ltd., Incorporated. 169,344; June 12; Serial No. 170,602; published Mar. 27, 1923.
Mustard, mayonnaise and olive relishes, Prepared. Maryland Packing Co. 169,402; June 12; Serial No. 160,145; published Mar. 27, 1923.
Nuts and peanut butter. Famo Nut Co. 169,280; June 12; Serial No. 132,034; published Mar. 27, 1923.
Nuts, Shelled. Great Atlantic and Pacific Tea Company. 169,197; June 12; Serial No. 169,744; published Mar. 27, 1923.
Oil, Olive. F. & J. di Palma. 169,163; June 12; Serial No. 166,878; published Mar. 27, 1923.
Oil, Vegetable salad. Reliable Importing Co. 169,307; June 12; Serial No. 168,238; published Mar. 27, 1923.
Pop-corn confection. Rich-Maid Mfg. Co. 169,301; June 12; Serial No. 167,328; published Mar. 27, 1923.
Pop-corn confection. Edward C. Wagner & Son. 169,160; June 12; Serial No. 165,650; published Mar. 27, 1923.
Salad dressing. American Mayonnaise Company. 169,369; June 12; Serial No. 169,433; published Mar. 27, 1923.
Salad-dressing and cake-icing powders. Mills Brothers Company. 169,213; June 12; Serial No. 140,737; published Mar. 20, 1923.
Sauce, Dinner. F. Blackburn. 169,219; June 12; Serial No. 153,172; published Jan. 17, 1922.
Vanilla extract. M. C. Palmer. 169,249; June 12; Serial No. 170,731; published Mar. 27, 1923.
Yeast. H. G. Holmes. 169,395; June 12; Serial No. 165,497; published Mar. 27, 1923.

CLASS 50.

Boots and shoes, Fabricated box toes and box-toe material for use in. Frank W. Whitcher Company. 169,195; June 12; Serial No. 169,882; published Mar. 13, 1923.

Bottles, etc., Crown seals and closures for. Armstrong Cork Company. 169,154; June 12; Serial No. 164,294; published Mar. 13, 1923.
Bottles, Seals and closures for. Armstrong Cork Company. 169,153; June 12; Serial No. 164,292; published Mar. 27, 1923.
Corks. Biertuempfel Bros. Cork Company. 169,261; June 12; Serial No. 172,076; published Mar. 13, 1923.
Furniture, Protecting pad for. Silver Pad Mfg. Co. 169,320; June 12; Serial No. 170,159; published Mar. 13, 1923.
Lasts. Schelter Last Company. 169,202; June 12; Serial No. 168,984; published Mar. 13, 1923.
Mousetraps. Sand Company Inc. 169,312; June 12; Serial No. 169,227; published Mar. 13, 1923.
Rubber and leather goods and waterproof oiled fabrics. Goodyear Rubber Company. 23,455–6; renewed Aug. 8, 1928.
Sheet material formed from textile material and a binder, Nonmetallic. General Electric Company. 169,244; June 12; Serial No. 170,524; published Mar. 13, 1923.
Slabs and sheets of rubber composition material, particularly for shoe soles. J. E. Cable. 169,225; June 12; Serial No. 160,660; published Aug. 15, 1922.
Stepladders. Dayton Safety Ladder Company. 169,212; June 12; Serial No. 167,805; published Mar. 13, 1923.
Switches and lamps, Luminous pendants for use with electrical. Luminite Corporation. 169,161; June 12. Serial No. 165,878; published Mar. 13, 1923.
Textile-fabric sheeting coated with compositions. Kenlit Mfg. Co. 169,271; June 12; Serial No. 152,070; published Feb. 27, 1923.
Traps, Animal. V. C. Carda. 169,211; June 12; Serial No. 167,878; published Mar. 13, 1923.
Waterproof fabrics. Archer Strauss Rubber Company. 169,247; June 12; Serial No. 170,705; published Mar. 13, 1923.

ALPHABETICAL LIST OF LABELS.

Aunt Almira's. For Mayonnaise. Champlain Valley Fruit Co. 26,076; June 12.
Blacky. For Cigars. Parodi Cigar Co. 26,086; June 12.
Blaisdell Arab. For Lead Pencils. Blaisdell Pencil Company. 26,073; June 12.
Buddy Brooks A Man's Powder for Men. For Containers for Talcum Powder. Buddy Brooks, Inc. 26,074; June 12.
Camel Malt Syrup. For Malt Sirup. G. D. Lindeman and L. V. Novak. 26,086; June 12.
Conte Verde. For Cigars. Parodi Cigar Co. 26,093; June 12.
Crestwood Farms. For Milk. Aines Farm Dairy Co. 26,070; June 12.
Crocus. For A Box of Crocus Bulbs. New Amsterdam Bulb Co. 26,091; June 12.
Eagle. For White Lead. Eagle-Picher Lead Company. 26,078; June 12.
Emile Coue's Own Method of Self Mastery. For Phonograph Records. Columbia Graphophone Company. 26,077; June 12.
Fortunella Pure Cottonseed Oil. For Cottonseed Oil. Cellas', Inc. 26,075; June 12.
Genuine Philippine Repp Originated 1915. For Philippine Repp Cloth. G. E. and L. Millus. 26,090; June 12.
Good Creamery Butter. For Buttery. Menasha Printing and Carton Company. 26,087; June 12.
Holland's Twin Loaf Bread. For Bread. Menasha Printing and Carton Company. 26,088; June 12.
Houseman's Puffs. For Fried Cakes. Houseman Cream Fried Cake Co. 26,083; June 12.
Il Progresso. For Cigars. Parodi Cigar Co. 26,097; June 12.
Jarrett Mineral Spring Water. For Water. Jarrett Water Co. 26,085; June 12.
Jim Blair's Dux Wear Supported Arch Shoe. For Shoes. Jim Blair Shoe Corporation. 26,072; June 12.
Jim Dandy. For Bread. H. V. Walters. 26,102; June 12.
Kentucky Chimney. For Cigars. Parodi Cigar Co. 26,094; June 12.
Leone di San Marco. For Cigars. Parodi Cigar Co. 26,095; June 12.
Maple Ridge Creamery Butter. For Butter. Menasha Printing and Carton Company. 26,089; June 12.
No. 04 Mirror and Scottissue Towel Holder. For Cartons for Shipping Combination Mirrors and Towel Holders. Scott Paper Company. 26,098–9; June 12.
$1000.00 Guaranteed Auto Glo. For An Automobile and Wood Polish. B. Heller & Company. 26,082; June 12.
$1000.00 Guaranteed Enamel Cleaner. For A Preparation for Cleaning Enamel and Porcelain Ware. B. Heller & Company. 26,080; June 12.
$1000.00 Guaranteed Moth Killer. For Insecticide Preparation for Killing Moths and Carpet Beetles. B. Heller & Company. 26,079; June 12.
$1000.00 Guaranteed Oxo Waste Pipe Opener. For A Drain Pipe Cleaner and Solvent. B. Heller & Company. 26,081; June 12.
Purex. For Salt. Ohio Salt Co. 26,092; June 12.
Salt Water Taffy. For Candy. James Brothers. 26,084; June 12.
Trickle Ice. For Silver Ribbon Used for Christmas Trees and Other Decorations. United States Foil Company. 26,101; June 12.
Visitor's Napkin. For Paper Napkins. F. R. Stearns. 26,100; June 12.
Weebits. For Candies and Confections. A. Bernard. 26,071; June 12.
White Sulphur Springs Water. For Mineral Waters. White Sulphur Springs, Inc. 26,103; June 12.

ALPHABETICAL LIST OF PRINTS.

"B. V. D." Shows the Way to Comfort. For Athletic Underwear. B. V. D. Company. 6,756; June 12.
Crystal Rock. For Carbonated and Plain Nonintoxicating Beverages and Drinking Waters. Crystal Rock Co. 6,757; June 12.
Fit as a Fiddle. For Athletic Underwear. B. V. D. Company. 6,755; June 12.
Johnny On The Spot. For Dry Goods. Erlanger Dry Goods Company. 6,758; June 12.
Miada Lingerie Guards For Comfort Neatness Security. For Lingerie Guards. Miada Co. 6,759; June 12.
Mother's Bread. For Bread. J. A. Sloan. 6,760; June 12.
The "Never-Say-Dry" Lather. For Shaving Cream. J. B. Williams Company. 6,762; June 12.
The Wonder Waterproof Wrapping Paper Boyce Perfection Fibre. For Waterproof Wrapping Paper. Union Paper & Twine Co. 6,761; June 12.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Seeds, Agricultural and grass. Springfield Seed Company. 176,481; June 12.
Seeds, Farm. Summerour & Son. 171,773; June 12.

CLASS 4.

Belt dressing. Duryea Manufacturing Company. 173,742; June 12.
Cleaning preparation for bathtubs, sinks, porcelain, etc. T. E. Forster. 134,467; June 12.
Polish for brass, copper, bronze, etc. Grady Mfg. Co. 175,353; June 12.
Polish, Shoe. Kraft Chemical Company. 173,651; June 12.
Soap compounds. Hoosier Manufacturing Co. 179,371; June 12.
Soap, Toilet. Flash Chemical Company. 176,334; June 12.
Soaps. Colgate & Company. 171,451; June 12.
Soaps. Pennsylvania Soap Company, Lancaster, Pa. 176,277; June 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Soaps, soap pastes, and soap powders. Parfumerie Roger & Gallet. 171,867; June 12.

CLASS 6.

Antirheumatic. Merck & Co. 177,096; June 12.
Coal-tar crudes, intermediates, dyestuffs, dyes, etc. National Aniline & Chemical Company. 174,971; June 12.
Creams, rouge, etc. Beautex Laboratories Company. 176,817; June 12.
Dental anæsthetic. J. M. Wilson. 176,775; June 12.
Dyes and dyestuffs. Grasselli Chemical Company. 157,922; June 12.
Dyes, colors, and intermediates, Coal-tar. Dyestuffs & Chemicals, Incorporated. 176,789; June 12.
Hair dressing. Diamond Laboratories, Inc. 176,791; June 12.
Hair dressing. Estee Laboratories Co. 176,259; June 12.
Hair dressing. J. Thompson. 177,334; June 12.
Hair oils. Foley & Company. 176,261; June 12.
Hair preparation. R. H. Cromwell. 176,074; June 12.
Insecticide. Kil-Tone Company. 177,130; June 12.
Medicinal composition for neurasthenic disorders. Lecithin Company. 176,839; June 12.
Medicinal preparation. W. H. Wilson. 174,116; June 12.
Oils for the treatment of disorders of the throat, lungs, etc., Aromatic. H. G. Connolly. 176,952; June 12.
Ointment. W. N. Hunter and Co. 177,128; June 12.
Oxides of cobalt, chromium, etc. Vitro Manufacturing Company. 176,234; June 12.
Pharmaceutical preparation. Chemische Fabrik vormals Sandoz. 176,880; June 12.
Pharmaceutical preparation. Chemische Fabrik vormals Sandoz. 176,882; June 12.
Pharmaceutical preparations for promoting the growth of hair. Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel. 171,565; June 12.
Polish, Nail. I. R. Parsons. 176,912; June 12.
Powder, Toilet. E. Fougera & Co. 177,038; June 12.
Powders, creams, perfumes, toilet waters, etc. J. J. White. 177,027; June 12.
Powders, creams, perfumes, toilet waters, rouge, hair tonics, etc., Face. S. Holway. 177,299; June 12.
Preparation for treating the eyebrows and eyelashes. Ross Company. 176,764; June 12.
Preparation to prevent annoyance by flies and vermin on live stock, Liquid. Fly-Hike Company. 176,959; June 12.
Remedies for tobacco habit, etc. H. J. Brown Medicine Company. 160,332; June 12.
Tooth paste. W. D. Gill. 176,962; June 12.
Tonic for cats and kittens. Knox Pharmacal Company. 177,131; June 12.
Tonic, General system. D. Sweet. 177,115; June 12.
Tooth paste, glycerin, etc. Foley & Company. 176,263; June 12.
Tooth paste, liquid dentifrice. J. R. Irwin. 176,188; June 12.
Tooth paste or dental cream. J. A. Baggett. 179,452; June 12.
Veterinary remedies. R. Bollack. 173,560; June 12.

CLASS 12.

Buildings and metal for doors and locks, Metal material for portable. L. S. Frost. 177,665; June 12.
Cement, Portland. Nebraska Cement Company. 177,687; June 12.
Plaster. Paul Mende Inc. 175,433; June 12.
Plastic roofing compound, slate-surface shingles, etc. Asbestos, Limited. 177,263; June 12.
Roofing materials. S. T. Frazer. 171,417; June 12.
Skylights. Alfred C. Goethel Co. 176,619; June 12.

CLASS 13.

Alloys, Metal. Seymour Manufacturing Company. 175,955; June 12.
Bolts, rivets, and spikes. Milton Manufacturing Company. 177,190; June 12.
Cast-iron pipe and fittings and other plumbers' supplies. Eastern Foundry Company. 178,095; June 12.
Knobs, handles, and finger plates for doors. Société P. and A. Picard. 177,144; June 12.
Toilet or closet seat, Type of. Germain Brothers Company. 172,874; June 12.
Valves for gas, steam, and water, Hand. Colonial Brass Works, Inc. 177,651-2; June 12.

CLASS 14.

Castings, Manganese-steel. Inland Engineering Company. 178,042; June 12.
Stamps, fullered forgings, and I forgings, Forged bodies for hand. Jas. H. Matthews & Company. 177,792; June 12.

CLASS 17.

Cigars. E. A. Kline. 179,632; June 12.
Cigars. R. Schwartz. 179,486; June 12.
Cigarettes. Philip Morris & Co. Ltd. 179,416; June 12.
Cigarettes. Stephano Brothers. 178,636; June 12.
Tobacco products. Zarro Tobacco Co. 177,887; June 12.

CLASS 19.

Automobile bodies, Lever casings for bottoms of. Pettitt & Bickford Company. 173,981; June 12.
Automobiles and taxicabs. Checker Taxi Co. 175,001; June 12.
Bumpers. C. G. Spring Company. 177,072; June 12.
Car roof, Railway-. Hutchins Car Roofing Company. 177,669; June 12.
Cars, bicycles, etc., Motor. Rover Company. 173,009; June 12.
Springs, Vehicle. Standard Parts Company. 161,066; June 12.
Truck bodies. Heil Co. 176,466-71; June 12.
Trucks, Motor. Clinton Motors Corporation. 176,536; June 12.

CLASS 21.

Hair-curling irons, Electric. W. T. Grant Company. 175,656; June 12.
Paste, Electrical binding. Marshall-Gerken Company. 173,775; June 12.
Telegraph apparatus. Kleinschmidt Electric Co. 168,894; June 12.
Washing machines, Power and hand operated. Poole Engineering and Machine Company. 179,428; June 12.

CLASS 22.

Fish baits, Artificial. Water-Witch Company. 176,929; June 12.
Sleds, hand sleds with wheels, and toy wagons. Caster Company. 176,603; June 12.

CLASS 23.

Carriage-lifting jacks. F. Steiner Mfg. 178,878; June 12.
Drilling tools, rope sockets, bailers, etc., Cable. Fort Worth Drilling Tool Company. 175,857; June 12.
Lathes. Gisholt Machine Company. 177,482; June 12.
Loom sundries, Leather. Charles Bond Company. 178,588; June 12.
Pistons, Motor. Muskegon Motor Specialties Company. 177,749; June 12.
Rubber pads for use in the textile and other industries. Fellsway Rubber Co. 178,337; June 12.
Sharpening machines, Knife and edge-tool. Ace Hardware Manufacturing Corporation. 172,314; June 12.
Truck switches, switch stands, switch plates, and parts thereof. Ramapo Ajax Corporation. 178,357; June 12.
Vehicle accelerators, Motor-. Williams Bros. Aircraft Corporation. 177,579; June 12.

CLASS 24.

Clothes-washing machines and clothes wringers. Champion Appliance Manufacturing Company. 176,399; June 12.
Tubs, Rinsing and bluing. C. S. Todd. 176,295; June 12.
Washboilers and galvanized washtubs. Schlueter Manufacturing Co. 172,904; June 12.

CLASS 25.

Locks, Door. Bassick Company. 178,324; June 12.

CLASS 26.

Gauges, Liquid. Akron-Selle Company. 157,016; June 12.
Spectacles, eyeglasses, and ophthalmic lenses. American Optical Company. 140,766; June 12.

CLASS 32.

Cabinets. Wasmuth-Endicott Company. 171,774; June 12.
Chair-seats, Fiber. American Fibre Chair Seat Corp. 177,028; June 12.
Desks. Durard Desk Mfg. Co. 166,736; June 12.
Mirrors and picture frames, Hand. Newark Tortoise Shell Novelty Co. 160,898; June 12.
Shades, Porch and window. Aeroshade Company. 178,016; June 12.

CLASS 33.

Glassware, Illuminating. Oscar O. Friedlaender Co. 173,280; June 12.

CLASS 34.

Ventilators, Industrial. American Larson Ventilating Co. 178,157; June 12.
Water-heating apparatus and parts thereof. Ferguson and Lange Foundry Company. 169,580; June 12.

CLASS 35.

Tires and inner tubes, Adhesive patches for automobile. Iron Clad Patch Laboratories, Inc. 171,083; June 12.
Tires and inner tubes for pneumatic tires, Elastic vehicle. Star Rubber Company. 164,559; June 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 36.

Harmonicas, Mouth. Matth. Hohner Akt. Ges. 138,330; June 12.
Musical instruments. C. Bruno & Son, Inc. 177,543; June 12.
Musical instruments, merchandise, and goods. Lyon & Healy. 144,290; June 12.

CLASS 37.

Albums. G. Gennert, Inc. 175,423; June 12.
Paper. Coy, Hunt and Company. 179,399; June 12.
Paper, Glassine, greaseproof, imitation-parchment, writing, wrapping, etc. C. McDowell. 179,619; June 12.
Paper in sheets and rolls, Book. New York & Pennsylvania Company. 167,922; June 12.
Writing and drawing surfaces. Stewart Corporation. 178,880; June 12.

CLASS 38.

Advertising literature. D. Reienvalen. 156,860; June 12.
Cards, Collection of motto. H. E. Hughes. 177,127; June 12.
Cards, Greeting. Dupuis-Rickman Engraving & Embossing Co. 157,560; June 12.
Cartoons, Title for. Associated Editors. 177,119; June 12.
Magazine, Monthly. James W. Bell & Co. 175,594; June 12.
Newspapers. L. Nelson-Kirkwood. 167,361; June 12.
Paper and cardboard signs, displays, and billboard sheets. Rex Window Advertising Co. 177,051; June 12.
Periodical, Monthly. Yellow Cab Manufacturing Co. 178,082; June 12.
Pictures printed from camera negatives. Luxite Laboratories. 177,497; June 12.
Printed articles, etc. W. L. Barnhart. 175,370; June 12.
Publication, Name of. American Education Press, Inc. 176,250; June 12.
Publication, Quarterly. Delta Sigma Phi Fraternity. 153,715; June 12.

CLASS 39.

Boots and shoes. Philip Glard Shoe Company. 173,886; June 12.
Boots and shoes, Soles and heels for. Selberling Rubber Company. 164,564; June 12.
Cravats, mufflers, men's lounging robes. J. M. Feinson. 175,854; June 12.
Dresses. Jack Levy, Inc. 173,136; June 12.
Dresses, Women's. Levy-Shulman & Co. 172,096; June 12.
Gloves. Julius Kayser & Co. 174,208; June 12.
Hats, Men's. Hutt & Wasserman. 176,418; June 12.
Hosiery. Bear Brand Hosiery Co. 170,061; June 12.
Hosiery. Dayton Hosiery Mills. 172,524; June 12.
Hosiery. Rice-Stix Dry Goods Company. 175,567; June 12.
Pants, Men's. M. I. Reinhertz. 171,957; June 12.
Shoes. J. L. Hudson Company. 167,917; June 12.
Stockings and hosiery, Women's and girls'. Campe-Davis-Blair Co. 175,462; June 12.
Sweaters. Manhattan Knitting Mills, Inc. 175,431; June 12.
Underwear made of textile fabrics, Ladies'. N. Bregstein. 171,250; June 12.

CLASS 40.

Corset steels. Rite Form Corset Co. 175,107; June 12.
Notions and small wares. William H. Cole & Co. 167,973; June 12.

CLASS 42.

Cotton goods in the piece. Lorraine Manufacturing Company. 178,749; June 12.
Cotton goods in the piece. United Turkey Red Company Limited. 172,134; June 12.
Cotton piece goods. H. J. Cathcart. 177,546; June 12.
Cotton piece goods. Voss & Stern. 160,316; June 12.
Cotton, wool, etc., piece goods, Woven and knitted. Vary Knit Co. 174,348; June 12.
Hair nets. National Hair Goods Co. 159,048; June 12.
Handkerchiefs. H. J. Cathcart. 177,545; June 12.
Laces, silk and fiber and silk and wool, Silk. Lace-Net Importing Co. 169,766; June 12.
Linens and decorated linens in the piece. Danda-Halpern Co. 177,963; June 12.
Silk and silk and cotton goods and artificial silk in piece. Artsilk Knitting Mills. 168,348; June 12.
Silk piece goods. Duplan Silk Corporation. 178,970-1; June 12.
Silk piece goods. Duplan Silk Corporation. 178,973-9; June 12.
Silk piece goods. Oriental Silk Printing Company. 179,318; June 12.
Silks in the piece and silk and cotton piece goods, Broad. Stehli Silks Corporation. 168,383; June 12.
Wool, worsted, mohair, etc., fabrics in the piece. Salt's Textile Manufacturing Company. 159,120; June 12.
Woolen cloths in the piece for suiting, etc. S. Stein & Co. 173,259; June 12.
Woolen cloths in the piece for suitings, etc. S. Stein & Co. 164,462; June 12.
Woolen piece goods. Forstmann & Huffmann Company. 178,986; June 12.
Woolen piece goods. Forstmann & Huffmann Company. 178,988; June 12.
Woolen piece goods. Forstmann & Huffmann Company. 178,990-1; June 12.
Woolen piece goods. Forstmann & Huffmann Company. 178,995-7; June 12.
Worsted fabrics, Novelty. International Worsted Mills. 174,787; June 12.
Worsted, woolen, cotton, worsted and cotton, woolen and cotton, etc., piece goods. Walther Manufacturing Co. 179,176-7; June 12.
Worsteds in the piece, Tropical. International Worsted Mills. 174,786; June 12.
Woven mesh fabrics. John Holbach Company. 176,628; June 12.

CLASS 43.

Yarns. Bernhard Ulmann Co. 176,876; June 12.

CLASS 45.

Beverage sold as soft drinks and sirups for making same. Mound City Bottling Company. 173,845; June 12.

CLASS 46.

Biscuit. National Biscuit Company. 163,593; June 12.
Candies. L. J. Christopher Co. 177,958-9; June 12.
Candies. Golden Pheasant, Inc. 178,385; June 12.
Candy. J. G. McDonald Chocolate Co. 177,982; June 12.
Candy. H. I. Sifers. 178,067; June 12.
Candy. M. M. Sumonia. 178,682; June 12.
Canned fruits and vegetables and dried fruits. Barron-Gray Packing Company. 177,819-20; June 12.
Cherries, Fresh. San Joaquin County Cherry Growers Assn. 177,875; June 12.
Coffee. M. R. Johnston. 178,256; June 12.
Fish and oysters, Fresh. Easter Fish Company. 177,900; June 12.
Fruit, Dried. A. M. Biddle. 177,821; June 12.
Grapes and raisins, Fresh. A. Mattei. 178,266; June 12.
Malt extract for food purposes. L. Stetelman. 178,208; June 12.
Milk, Condensed and evaporated. Dairymen's League Co-Operative Association, Inc. 178,376; June 12.
Oil, Cottonseed. Cellas', Inc. 178,090; June 12.
Oils, Edible cottonseed and vegetable. American Cotton Oil Company. 177,812; June 12.
Sardines in oil. Silveira, Carmo & Companhia. 169,139; June 12.

CLASS 50.

Bottle closures. New Process Cork Company. 160,076; June 12.
Drinking straws. A. Herz. 167,567; June 12.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. A. Simonds-Dayton Company, The. (See Anderson, Edward, assignor.)
Ackerman, Charles L. (See Meyers, William, assignor.)
Acme Road Machinery Company. (See Cookinham, E. F., and Cook, assignors.)
Adams, Gridley, Chicago, Ill. Ironing board. 1,458,314; June 12.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car truck. 1,458,673; June 12.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car truck. 1,458,674; June 12.
Adelmann, Hans, assignor to Ham Boiler Corp., New York, N. Y. Meat-loaf cooker. 1,458,507; June 12.
Agee, Philip C., Pomeroy, Wash. Brake-rod take-up. 1,458,793; June 12.
Aiken, Frank, Elkins Park, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Ignition apparatus. 1,458,375; June 12.
Aiken, Janet R., Branchville, Conn. Clay-modeling book. 1,458,508; June 12.
Airships Incorporated. (See Witmer, C. C., and Havens, assignors.)
Allen, Charles H., Attleboro, Mass. Collar button. 1,458,607; June 12.
Allen, Ernest C., and G. F. Phillips, assignors to Eastman Kodak Company, Rochester, N. Y. Loading fixture for film holders. 1,458,262; June 12.
Alschuler, Ernest, St. Louis, Mo., assignor to United States Electric Manufacturing Corporation, New York, N. Y. Battery handlamp. 1,458,124; June 12.
Alter, Julius M., Brooklyn, N. Y. Safety attachment for automobiles. 1,458,205; June 12.
Aluminum Manufacturers, Incorporated. (See Hook, Henry C., assignor.)
American Forging and Socket Co. (See Rathbun, Edgar A., assignor.)
American Liquid Meter Company. (See Bassler, Carlos J., assignor.)
American Lithographic Company. (See Dietsche, Adolph, jr., assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Shale Reduction Company. (See Postel, Carl, assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
Ames-Droz, Louis F., Geneva, Switzerland. Copy carrier for writing machines, adding machines, and the like. 1,458,457; June 12.
Anderson, Arthur N. (See Saklatwalla, B. D., and Anderson.)
Anderson, Edward, assignor, by mesne assignments, to The A. A. Simonds-Dayton Company, Dayton, Ohio. Making ceramic products. 1,458,376; June 12.
Anderson, Edward, assignor, by mesne assignments, to The A. A. Simonds-Dayton Company, Dayton, Ohio. Storage battery. 1,458,377; June 12.
Anderson, George E., Montpelier, Vt. Adjustable keeper plate. 1,458,637; June 12.
Anderson, Nils A., New York, N. Y. Tool for grinding electrical contact points. 1,458,459; June 12.
Anderson, Robert H., Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company. Apparatus for forming strips of asbestos-cement material. 1,458,675; June 12.
André, Marie J. C., Paris, France. Pneumatic tire. 1,458,458; June 12.
Anson, Edward E., Clarksville, Ohio. Adjustable gate. 1,458,794; June 12.
Arents, Andrew C., et al. (See Gill, Charles H., assignor.)
Arnoll, Arthur G., Glendale, Calif., assignor to National Carbon Company, Inc., New York, N. Y. Switch for portable lamps. 1,458,460; June 12.
Arthur, William, New Haven, Conn. Registering mechanism. 1,458,509; June 12.
Asbestos Shingle, Slate & Sheathing Company. (See Anderson, Robert H., assignor.)
Ashton, William J., Dallas, Tex. Vending rack. 1,458,510; June 12.
Astrom, Carl P., East Orange, N. J., assignor to McKneat Manufacturing Company. Oil burner. 1,458,378; June 12.
Atlas Products Co. Inc. (See Whitman, W. C., and Goodridge, assignors.)
Atwater Kent Manufacturing Company. (See Aiken, Frank, assignor.)
Atwood, Harry N., Smithfield, N. C., assignor to Rubwood, Inc., Lawrence, Mass. Vehicle wheel. 1,458,279; June 12.
Atwood, Harry N., Smithfield, N. C., assignor to Rubwood, Inc., Lawrence, Mass. Vehicle wheel. 1,458,380; June 12.
Ayers, Lorenz K., St. Louis, Mo. Bleaching barytes. 1,458,461; June 12.
Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Fruit-disintegrating machine. 1,458,315; June 12.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Backstay Machine & Leather Company, The. (See Schemmel, Robert C., assignor.)
Bacon, Allan H., St. Louis, Mo. Cuff button. 1,458,164; June 12.
Baehr, George, Pittsburgh, Pa. Finishing roll; 1,458,381; June 12.
Baer, John, Toronto, Ontario, Canada. Elevator lock. 1,458,871; June 12.
Baldwin, Frederick M., Los Angeles, Calif. Three-way safety auto signal. 1,458,316; June 12.
Bangert, Adolph, Union Hill, N. J. Combination tool. 1,458,511; June 12.
Barker, Theodore E. (See Skaer, A. H., Barker, and Clark.)
Barkstrom, Charles E., Chicago, Ill. Organ pipe. 1,458,382; June 12.
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,458,125; June 12.
Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Journal box. 1,458,741; June 12.
Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Draft-rigging backstop. 1,458,742; June 12.
Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Journal box. 1,458,743; June 12.
Barton, Charles, Ford City, Ontario, Canada, assignor to Swedish Crucible Steel Company, Detroit, Mich. Electric-wire fixture. 1,458,263; June 12.
Bassler, Carlos J., assignor to American Liquid Meter Company, Portland, Oreg. Fluid meter. 1,458,383; June 12.
Bate, James, Ypsilanti, Mich. Die-casting machine. 1,458,795; June 12.
Bates, Edmund C., assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Lifting jack. 1,458,676; June 12.
Bathke, Henry H., Oconto, Wis. Cheese hoop and follower sterilizing washer. 1,458,384; June 12.
Baumgardner, Carl W., Tiffin, Ohio. Septic tank. 1,458,796; June 12.
Beach, Fitch H. and F. S., Charlotte, Mich. Wheel scraper. 1,458,512; June 12.
Beach, Fred S. (See Beach, Fitch H. and F. S.)
Beale, Charles M., Minneapolis, Minn. Collar-retaining device. 1,458,797; June 12.
Beck, Charles W., Detroit, Mich. Flexible coupling. 1,458,608; June 12.
Beck, Charles W., assignor to Beck-Frost Corporation, Detroit, Mich. Oil-can holder. 1,458,609; June 12.
Beck, Charles W., assignor to The Beck-Frost Corporation, Detroit, Mich. Priming cup. 1,458,610; June 12.
Beck-Frost Corporation. (See Beck, Charles W., assignor.)
Belcher, Daniel, Webster Groves, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Sheet accumulator. 1,458,317; June 12.
Bell, Ellen W., Los Angeles, Calif. Producing artificial flower petals. 1,458,513; June 12.
Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring suspension. 1,458,318; June 12.
Beloyt Corporation, The. (See Bell, Harvey W., assignor.)
Bemis Bro. Bag Company. (See Belcher, Daniel, assignor.)
Bemis, Sarah E., Philadelphia, Pa. Corset. 1,458,319; June 12.

Bennett, Wilson, Wellington, New Zealand. Producing a rustless iron alloy. 1,458,568; June 12.
Berg, Karl A. T., Hogsnas, Sweden. Pneumatic tool driven by pulsating air. 1,458,569; June 12.
Bergamo, Louis J., et al. (See Gill, Charles H., assignor.)
Bergren, Anton C., Jamestown, N. Y. Yarn cleaner. 1,458,917; June 12.
Berkshire, Clarence R., San Francisco, Calif. Cleaning tool. 1,458,612; June 12.
Berrer, August, Feuerbach, Germany, assignor to Fortuna Machine Company, New York, N. Y. Skiving machine. 1,458,677; June 12.
Best, Albert A., Chicago, Ill. Bushing for radiators. 1,458,678; June 12.
Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Key-cutting machine. 1,458,217; June 12.
Best, Frank E., Inc. (See Best, Frank E., assignor.)
Bethke, Fred, and E. Hicke, Visalia, Calif. Game. 1,458,798; June 12.
Bethlehem Steel Company. (See Hilpert, Meier G., assignor.)
Betteloni, Vittorio, Florence, Italy. Compressed-air water elevator. 1,458,714; June 12.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. 1,458,126; June 12.
Bird, A. M. (See Conler, Joseph M., assignor.)
Bishop, Arthur H., New York, N. Y. Camp and lunch kit. 1,458,679; June 12.
Blackwell, Roland R., Petrolia, Ontario, Canada. Apparatus for dressing bits and rimmers. 1,458,320; June 12.
Blanchard, George N., and C. F. Colmar, assignors to Colmar Burner Company, San Francisco, Calif. Hydrocarbon generator and burner. 1,458,680; June 12.
Blankenberg, William J., Buffalo, N. Y. Moving-picture machine. 1,458,911; June 12.
Bley, Benjamin B., Waco, Tex. Set of playing cards. Des. 62,466; June 12.
Bliss, E. W., Company. (See Klocke, William, assignor.)
Bloch, L. D., & Co. (See Strich, Harold J., assignor.)
Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. 1,458,613; June 12.
Bock, William, Racine, Wis. Guide for match plates. 1,458,206; June 12.
Bogart, Charles W., assignor to Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y. Tap. 1,458,614; June 12.
Bogley, Reuben A., Washington, D. C. Hat holder. 1,458,638; June 12.
Boniface, Arthur, New York, N. Y., assignor to Norton Company, Worcester, Mass. Slipproof stair unit. 1,458,681; June 12.
Bönnelycke, Emil, Washington, D. C. Chart. 1,458,264; June 12.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,458,385; June 12.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,458,386; June 12.
Boring, John W., and G. A. Wagoner, Gibsonville, N. C. Coin assorter. 1,458,515; June 12.
Boston Insulated Wire and Cable Company. (See Burley, H. B., and Rooney, assignors.)
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding salesbook. 1,458,265; June 12.
Boudreaux, Edouard, Paris, France. Lead molding used in galvanoplasty. 1,458,570; June 12.
Bourne, Charles L., Minneapolis, Minn. Treating concrete aggregate. 1,458,387; June 12.
Bowman, Samuel, Redondo Beach, Calif. Water-cooling apparatus for gas engines. 1,458,321; June 12.
Boyd, James C., Pitcairn, Pa. Sign. 1,458,516; June 12.
Boyd, John S. and T. F., assignors to John S. Boyd Co. Inc., Williamstown, Mass. Textile fabric. Des. 62,467; June 12.
Boyd, John S. and T. F., assignors to John S. Boyd Co. Inc., Williamstown, Mass. Textile fabric. Des. 62,468; June 12.
Boyd, John S. and T. F., assignors to John S. Boyd Co. Inc., Williamstown, Mass. Textile fabric. Des. 62,469; June 12.
Boyd, John S., Co. (See Boyd, John S. and T. F., assignors.)
Boyd, Lemuel W., Madison, Ill. Railway-car door stop and seal. 1,458,388; June 12.
Boyd, Thomas F. (See Boyd, John S. and T. F.)
Boyle, Peter J., Saginaw, Mich. Beet harvester. 1,458,615; June 12.
Brach, Leon S., East Orange, N. J. Lightning arrester. 1,458,611; June 12.
Bradfield, Edmund S., Media, Pa. Shock-absorbing device. 1,458,517; June 12.
Braun, Henry. (See Fleuder, John W., assignor.)
Braunstein, Roger, Paris, France. Apparatus for effecting the extraction successively of sheets of paper contained in a magazine and for folding such sheets. 1,458,462; June 12.
Braunstein, Roger, Paris, France. Apparatus for effecting the gripping, the extraction, and the folding of sheets of paper contained in a magazine. 1,458,463; June 12.
Breeding, Robert G., Cincinnati, Ohio. Liquid-fuel-burning appliance. 1,458,266; June 12.
Brenner, John H., Douglas, Wyo. Piston ring. 1,458,207; June 12.
Brewster, James C., Fort Madison, Iowa. Window-washer platform. 1,458,744; June 12.
Brigden, Arthur, Birmingham, Ala. Boll-weevil machine. 1,458,799; June 12.
Brigden, Arthur, Birmingham, Ala. Boll-weevil machine. 1,458,800; June 12.
Brill, J. G., Company, The. (See Adams, Walter S., assignor.)
Brink, Carl A. (See Parks, E. F., Brink, and Taylor.)
Brisben, Ernest J., East Cleveland, Ohio. Sole tip. 1,458,218; June 12.
Brobst, William E., jr., Noblesville, Ind. Food machine. 1,458,872; June 12.
Bronnert, Emile, Mulhouse, France. Manufacture of viscose silk. 1,458,389; June 12.
Brooke, Alec, Glasgow, Scotland. Button. 1,458,873; June 12.
Bross, Ernest E., assignor to The Traub Manufacturing Company, Detroit, Mich. Ring. Des. 62,470; June 12.
Brossman, Kathryn R., New York, N. Y. Flower holder. Des. 62,471; June 12.
Brown Company. (See Richter, George A., assignor.)
Brown, Frank W., Wilkinsburg, and A. R. Marshall, assignors to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. 1,458,745; June 12.
Brown, William L., Wichita, Kans. Electrically-heated display cabinet. 1,458,127; June 12.
Brump, Herbert L., assignor to The Dayton Fan & Motor Company, Dayton, Ohio. Short-circuiting device. 1,458,682; June 12.
Brundage, James W., Akron, Ohio. Bath-cap-reenforcing machine. 1,458,801; June 12.
Bruner, Louis N., New York, and S. D. Olsen, Brooklyn, N. Y. Glass-tube spinning and drawing apparatus. 1,458,518; June 12.
Bryant, Robert B., Gaffney, S. C. Pin or badge. Des. 62,472; June 12.
Buchenberg, Alvin E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Battery terminal. 1,458,901; June 12.
Buchman, Vernon L., Trenton, N. J. Resilient tire. 1,458,267. June 12.
Buckeye Jack Manufacturing Company, The. (See Bates, Edmund C., assignor.)
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buffalo Refractory Corporation. (See Farish, William A., assignor.)
Buffalo Refractory Corporation. (See Ohman, John L., assignor.)
Bufford, George W., Buffalo, assignor to J. H. Williams & Co., Brooklyn, N. Y. Tool holder and tool. 1,458,802; June 12.
Buller, Oliver P., et al. (See Kimes, E. B., and Carson, assignors.)
Bullock, Samuel M., Chicago, and H. S. Lloyd, Oak Park, Ill. Manufacturing abrasive disks. 1,458,322; June 12.
Burdwood, Howard A. (See Cunningham, C. S., and Burdwood.)
Burley, Harry B., and H. E. Rooney, Brookline, Mass., assignors to Boston Insulated Wire and Cable Company. Insulated electric wire. 1,458,803; June 12.
Burlison, Grover W., Grundy, Va. Rail spreader. 1,458,804; June 12.
Burnham, James L., Saco, Me. Hank register. 1,458,323; June 12.
Burns, Henry H., Battle Creek, Mich. Lifting jack. 1,458,324; June 12.
Burrow, George A. (See Burrow, James H. and G. A.)
Burrow, James H., and G. A., Spokane, Wash. Hydraulic transmission. 1,458,390; June 12.
Burton, Thomas J., Murphysboro, Ill. Cover for manholes and analogous devices. 1,458,391; June 12.
Burton, Warren D., Omaha, Nebr. Balloon windlass. 1,458,219; June 12.
Byers, De Forest, Clear Lake, Iowa. Strainer. 1,458,464; June 12.
Cain, Jacob E. (See Reeves, H., and Cain.)
Calhoun, John C., Houston, Tex. Collapsible running board for motor vehicles. 1,458,519; June 12.
Call, Jessie L. (See Spangenberg, Rudolph, assignor.)
Call, Sumner F., Hartford, Conn. Watermelon carrier. 1,458,268; June 12.
Camp, Walter D., Wethersfield, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,458,269; June 12.
Canova, William, Paterson, N. J. Shuttle tension. 1,458,639; June 12.
Cantrall, Forrest L., Likley, Calif., assignor, by mesne assignments to Engineering Specialties Company, San Francisco, Calif. Automobile engine stop. 1,458,270; June 12.
Carder, Frederick, assignor to Corning Glass Works, Corning, N. Y. Vase. Des. 62,517; June 12.
Carlin, Arvid F., Mamaroneck, N. Y. Toy figure. 1,458,683; June 12.
Carlson, Martin O., Chicago, Ill. Push sled. 1,458,392; June 12.

Carpmill, John F., New Britain, Conn. Automobile hood fastener. 1,458,746; June 12.
Carpmill, John F., New Britain, Conn. Automobile hood fastener. 1,458,747; June 12.
Carson, John H. (See Kimes, E. B., and Carson.)
Castell, James H., Westminster, London, England. Lock. 1,458,520; June 12.
Castile, John L., Boone, Iowa. Tank stand. 1,458,521; June 12.
Cavanaugh, Harry F., T. S. Hall, and A. L. Oliver, Oakland, assignors to Wonder Portable Dish Washer Company, Emeryville, Calif. Dishwashing-machine casing. Des. 62,473; June 12.
Caverno, Arthur. (See Meredith-Jones, Hubert, assignor.)
Cee Dee Mfg. Co. (See Cummings, Joseph A., jr., assignor.)
Central Railway Signal Company. (See Brown, F. W., and Marshall, assignors.)
Challenge Machinery Company, The. (See Lee, James E., assignor.)
Chapman, Frank C., Modesto, Calif. Revolving carriage for driers. 1,458,393; June 12.
Charbeneau, John H., Mount Clemens, Mich. Dispensing cabinet. Des. 62,474; June 12.
Charteris, Lillian, New York, N. Y. Animal figure or similar article. Des. 62,475; June 12.
Chase, George R., Jefferson, Oreg. Urinal. 1,458,640; June 12.
Christensen, Niels C., Salt Lake City, Utah. Apparatus for the settlement of solid particles suspended in liquids. 1,458,805; June 12.
Cizek, Vojtech, New York, N. Y. Rotary internal-combustion engine. 1,458,641; June 12.
Clark, Edwin M., Clarkston, Mich. Time-controlled locking mechanism. 1,458,325; June 12.
Clark, James R., Cicero, Ill. Toy boat. Des. 62,518; June 12.
Clark, Lester S., Reisterstown, Md. Repair link. 1,458,571; June 12.
Clark, Omar E. (See Skaer, A. H., Barker, and Clark.)
Clark, Walter G., New York, N. Y. Feed trough for glass furnaces. 1,458,522; June 12.
Clark, William E., Minneapolis, Minn. Auxiliary locking bolt. 1,458,271; June 12.
Clarke, Alex A., Dallas, Tex. Motor-driven surface-treating machine. 1,458,874; June 12.
Clarke, Ira M., assignor to New Martinsville Glass Manufacturing Co., New Martinsville, W. Va. Combined humidor and ash tray. Des. 62,476; June 12.
Clarke, Ira M., assignor to New Martinsville Glass Manufacturing Co., New Martinsville, W. Va. Combined ash tray and jar cover. 62,477; June 12.
Clausen, Martin J., Seattle, Wash. Testing device. 1,458,272; June 12.
Clawson, Monroe S., Upper Montclair, N. J. Welding apparatus. 1,458,273; June 12.
Clawson, Monroe S., Upper Montclair, N. J. Welding process. 1,458,274; June 12.
Clements, George, assignor of one-half to Clements Mfg. Co., Chicago, Ill., and one-half to The Hoover Company, North Canton, Ohio. Vacuum cleaner. Re15,627; June 12.
Clements Mfg. Co., et al. (See Clements, George, assignor.)
Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)
Coanda, Henri, Paris, France. Trailer box and tank car. 1,458,465; June 12.
Cobb, Charles L., et al. (See Neil, Joseph B., assignor.)
Coblentz, William W., Washington, D. C. System of electrical control. 1,458,165; June 12.
Cochran, Eugene S. (See McCrosson, John T., assignor.)
Coffman, George L. (See Harris, D. L., Coffman, and Resnick.)
Coker, Thomas H. (See Collins, F. D., and Coker.)
Colardeau, Emmanuel L. P., assignor to H. Crochat, Paris, France. Electric generating group. 1,458,806; June 12.
Collin, Louis T., Sacred Heart, Minn. Cornstalk lifter. 1,458,875; June 12.
Collins, Frank D., and T. H. Coker, Hartsville, S. C. Hook and eye. 1,458,807; June 12.
Collins, Frederic, Philadelphia, Pa. Adding machine. 1,458,642; June 12.
Collins, Harry L., Delmar, Iowa. Tank heater. 1,458,572; June 12.
Colmar Burner Company. (See Blanchard, G. N., and Colmar, assignors.)
Colmar, Clarence F. (See Blanchard, G. N., and Colmar.)
Colonial Sign and Insulator Company, The. (See Hemphill, James R., assignor.)
Confer, Joe, New York, N. Y. Boiler and water heater. 1,458,876; June 12.
Conley, Joseph M., Greenville Junction, Me., assignor of one-half to A. M. Bird, Megantic, Quebec, Canada. Signal-flag support. 1,458,808; June 12.
Connor, Clyde O., Wichita, Kans. Hair-clipper blade. 1,458,326; June 12.
Connor, Olen W. (See Evans, Lewis L., assignor.)
Consolidated Textile Corporation. (See Howard, Charles W., assignor.)
Constan, Paul A. J. M., Mengam, near Brest, France. Sectional vessel. 1,458,134; June 12.
Cook, Everett J., assignor of one-half to Wisconsin Parts Company, Oshkosh, Wis. Axle construction. 1,458,684; June 12.
Cook, Ornan S., and H. A. Gale, Fitchburg, Mass. Block planer. 1,458,220; June 12.
Cooke, David B. (See Cookinham, E. F., and Cook.)
Cookinham, Edward F., and D. B. Cook, assignors to Acme Road Machinery Company, Frankfort, N. Y. Scarifier. 1,458,394; June 12.
Coombs, George O., Providence, R. I. Composite fabric. 1,458,918; June 12.
Cooper, Hermon C. (See McKee, R. H., and Cooper.)
Corning Glass Works. (See Carder, Frederick, assignor.)
Cossitt, Harold R., Alameda, Calif., assignor to Ninety Nine Publishing Company, Incorporated, Carson City, Nev. Baseball game. 1,458,275; June 12.
Coutant, Benoni L., Jacksonville, Fla. Ejector. 1,458,523; June 12.
Cover, Ralph, Baltimore, assignor to The United Machinery Company, Westminster, Md. Corn-husking machine. 1,458,221; June 12.
Coverdale, Philip H. J., Beaumont, Tex. Curing rack. 1,458,643; June 12.
Cox, William C., Washington, D. C. Photographic-paper receptacle. 1,458,166; June 12.
Cox, William G., Cleveland, Ohio. Vehicle fender. 1,458,276; June 12.
Cox, William G., Cleveland, Ohio. End shield for motor vehicles. 1,458,277; June 12.
Crafts, Otis T., Manchester, N. H. Making shoe-heel bases. 1,458,524; June 12.
Crist & Schilken Company. (See Crist, John H. and L. G., assignors.)
Crist, John H. and L. G., assignors to Crist & Schilken Company, Pittsburgh, Pa. Door construction. 1,458,748; June 12.
Crist, Louis G. (See Crist, John H. and L. G.)
Crochat, Henry. (See Colardeau, Emmanuel L. P., assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton, Randolph, Worcester, Mass. Making traveler rings. 1,458,573; June 12.
Crossley, Alfred, Washington, D. C. Antenna selector switch. 1,458,466; June 12.
Culp, Everett C. (See Hainline, E. E., and Culp.)
Cummings, Joseph A., jr., assignor to Cee Dee Mfg. Co., New York, N. Y. Packing material. 1,458,574; June 12.
Cunningham, Charles S., and H. A. Burdwood, Lynn, Mass. Coupling. 1,458,395; June 12.
Curran, Edward T., Detroit, Mich. Radiator. 1,458,128; June 12.
Curran, Edward T., Detroit, Mich. Water-circulating system. 1,458,129; June 12.
Currier, Frederick W., Minneapolis, Minn. Plate-glass setting. 1,458,396; June 12.
Currier, Frederick W., Minneapolis, Minn. Plate-glass setting. 1,458,397; June 12.
Currier, Frederick W., Minneapolis, Minn. Glass setting. 1,458,398; June 12.
Dahlen, William, Duluth, Minn. Grain door. 1,458,327; June 12.
Dair, John H., Keyport, N. J. Attachment for differential gears. 1,458,877; June 12.
Daniels, Farrington, East Falls Church, Va., and O. R. Wulf, Norwich, Conn. Fixation of atmospheric nitrogen. 1,458,525; June 12.
Darcey, Jesse J. (See Grandjean, S. G., and Darcey.)
Darn E. Z. Laboratorys. (See Plasterer, Purl C., assignor.)
Darrow, Lorenzo D., North Plainfield, N. J. Ensilage packer. 1,458,809; June 12.
Davidson, Scott, Hillsboro, Ill., assignor to Schram Glass Manufacturing Company, St. Louis, Mo. Method of and apparatus for feeding molten glass. 1,458,167; June 12.
Davis, Clarke E., Douglaston, assignor to National Biscuit Company, New York, N. Y. Process and apparatus for classifying food products. 1,458,130; June 12.
Davis, David C., Chester, Pa., assignor to Westinghouse Gear and Dynamometer Company. Pressure-distributing device for double-pinion drives. 1,458,131; June 12.
Davis, Walter T., assignor to Wheeling Stamping Company, Wheeling, W. Va. Casting machine. 1,458,685; June 12.
Dawley, Clarence A., Plainfield, N. J. Injector. 1,458,810; June 12.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance recoil apparatus. 1,458,686; June 12.
Day, Albert V. T., New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Traffic-controlling system. 1,458,616; June 12.
Day, George J., Buffalo, N. Y. Oven thermometer. 1,458,168; June 12.
Dayton Fan & Motor Company, The. (See Brump, Herbert L., assignor.)
Dayton Scale Company. (See Freed, Edward G., assignor.)
De Bretteville, Alexander, and G. J. Henry, San Francisco, Calif. Shock absorber. 1,458,278; June 12.
De Elroza, José, Madrid, Spain. Flaming advertisement. 1,458,526; June 12.
De Glopper, John, assignor to Federal Stamping Company, Holland, Mich. Metal and eye member connection. 1,458,132; June 12.

Delohery, James. (See Grover, George, assignor.)
Dempsey, Joseph E., Acme, Okla. Gate valve. 1,458,644; June 12.
Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Switch mechanism. 1,458,749; June 12.
Dennison Manufacturing Company. (See Macdaid, James J., jr., assignor.)
Dennison Manufacturing Company. (See Scott, Henry F., assignor.)
Denver Rock Drill Manufacturing Company. (See Skaer, A. H., Barker and Clark, assignors.)
De Smidt, John H., Minneapolis, Minn. Window screen. 1,458,617; June 12.
Dessart, Victor E., Brooklyn, N. Y. Decorative lantern. 1,458,687; June 12.
Det Norske Aktieselskab for Elektrokemisk Industri Norsk Industri-Hypotekbank. (See Sem, Mathias O., assignor.)
Dexter, Frank, London, England. Scissors or pruner for cutting fruit, flowers, or the like. 1,458,878; June 12.
Dierker, William C., assignor of one-half to C. Thornton, Peoria, Ill. Casing for a signaling device for vehicles. Des. 62,478; June 12.
Dieter, James F., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Gating castings. 1,458,222; June 12.
Dietsche, Adolph, jr., assignor to American Lithographic Company, New York, N. Y. Display device. 1,458,169; June 12.
Dietsche, Adolph, jr., assignor to American Lithographic Company, New York, N. Y. Display device. 1,458,170; June 12.
Dinkelacker, Jacob, Hazleton, Pa. Horseshoe calk. 1,458,527; June 12.
Ditson, Jesse, and A. E. Peters, Littleton, Colo., assignors to Ingersoll-Rand Company, Jersey City, N. J. Pedestal punch. 1,458,328; June 12.
Dixie Machinery Manufacturing Company. (See Frickey, Edward H., assignor.)
Dixon, Herbert A. (See Montgomery, John N. and G. D., and Dixon.)
Doherty, Henry L., assignor to Doherty Research Company, New York, N. Y. Domestic heating stove. 1,458,279; June 12.
Doherty Research Company. (See Doherty, Henry L., assignor.)
Dolbear, Samuel H., assignor of one-half to E. L. Oliver, San Francisco, Calif. Method of and apparatus for concentrating ores. 1,458,467; June 12.
Donaldson, John S., New York, N. Y. Tool. 1,458,171; June 12.
Doner, Robert, Chicago, Ill. Game. 1,458,468; June 12.
Donon, Pierre, assignor to Etablissements Baudet & Donon, Paris, France. Change-speed device. 1,458,469; June 12.
Dooley, Frank M., Mobile, Ala. Battery box. 1,458,280; June 12.
Dorman, William S., assignor to R. G. Leonard, Brooklyn, N. Y. Speed governor. 1,458,470; June 12.
Dornberger, Victor, San Jose, Calif. Inkwell. 1,458,471; June 12.
Dornier, Claudius, Friedrichshafen, assignor to Zeppelinwerke Lindau, Gesellschaft mit beschränkter Haftung, Lindau-Reutin, Germany. Metallic structure for aircraft. 1,458,645; June 12.
Dossman, Carolina, et al. (See Gill, Charles H., assignor.)
Dossmann, Edward, et al. (See Gill, Charles H., assignor.)
Dowd, Bernard J., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Means for fastening glass panels to their supports. 1,458,618; June 12.
Draper Corporation. (See Roose, Albert J., assignor.)
Draver, Emil R., Richmond, Ind. Shock absorber. 1,458,912; June 12.
Driscoll, Charles. (See Pierce, Charles W., assignor.)
Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Locking link for chain belts. 1,458,172; June 12.
Dunn, Edward L., East Orange, assignor to Otis Elevator Company, Jersey City, N. J. Hand-rope lock for elevators. 1,458,472; June 12.
Dunn, Edward L., assignor, by mesne assignments, to Merchants National Bank, Worcester, Mass. Controller for reversing machines. 1,458,902; June 12.
Duxbury, James F., Providence, R. I. Safety device for power presses. 1,458,688; June 12.
Eastman Kodak Company. (See Allen, E. C., and Phillips, assignors.)
Eastman Kodak Company. (See Robertson, J. A., and Speidel, assignors.)
Eastman Kodak Company. (See Trivelli, Adreaan P. H., assignor.)
Eckert, Grandon E., assignor to The R. Thomas & Sons Co., East Liverpool, Ohio. Insulator connector. 1,458,811; June 12.
Economy engineering Company. (See Pavey, William B., assignor.)
Edwards, Albert Y., Springfield, Ohio. Valve mechanism for internal-combustion engines. 1,458,223; June 12.
Ehrenfeuchter, Julius, Hanover-Wulfel, Germany. Parallel vise. 1,458,610; June 12.
Electric Auto-Lite Corporation. (See Buchenberg, Alvin E., assignor.)
Electric Auto-Lite Corporation. (See Patterson, Harry R., assignor.)
Elfelt, Clifford S., Los Angeles, Calif., assignor to E. Elfelt and D. Weber, Chicago, Ill. Hand bag. 1,458,329; June 12.
Elfelt, Esther, et al. (See Elfelt, Clifford S., assignor.)
Elliott, Arthur M., Oakland, Calif. Tire tread. Des. 62,519; June 12.
Ellis, Charles S., Chicago, Ill. Elapsed-time recorder. 1,458,689; June 12.
Elwell, Franklin H., Chicago, Ill. Spark-plug cleaner. 1,458,690; June 12.
Elwell, Franklin H., Chicago, Ill. Spark-plug cleaner. 1,458,691; June 12.
Emery, Victor J., Wollaston, Mass. Grinding machine. 1,458,528; June 12.
Engelhardt, Rudolf, Leverkusen, near Cologne, W. Lommel, Wiesdorf, near Cologne, and A. Ossenbeck, Cologne-on-the-Rhine, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Absorbing ethylene and its homologues. 1,458,646; June 12.
Engineering Specialties Company. (See Cantrall, Forrest L., assignor.)
Erickson, C. E., Company. (See Erickson, Ernest R., assignor.)
Erickson, Ernest R., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Combined toothbrush and paste holder. Des. 62,479; June 12.
Erman, Ira S., Cincinnati, Ohio. Ice-cream-dispensing device. 1,458,224; June 12.
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Multiple balancing arrangement for multiplex transmission. 1,458,225; June 12.
Etablissements Baudet & Donon. (See Donon, Pierre, assignor.)
Evans, Lewis L., Lancaster, S. C., assignor of one-half to O. W. Connor, Concord, N. C. Renovating attachment for slashers. 1,458,473; June 12.
Everett, Howard E., St. Paul, Minn. Dauber. 1,458,281; June 12.
Fairbanks, Luke J., Los Angeles, Calif. Dispenser. 1,458,282; June 12.
Fairburn, Charles E., London, England. Conductor arrangement of electric traction systems. 1,458,692; June 12.
Fairley, Jesse, Sioux Falls, S. Dak. Fastening device. 1,458,399; June 12.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Engelhartt, R., Lommel, and Ossenbeck, assignors.)
Farish, William A., assignor to Buffalo Refractory Corporation, Buffalo, N. Y. Noncrystallized refractory material. 1,458,913; June 12.
Farley, John W., trustee. (See Tolston, Robert L., assignor.)
Faulds, George D., Philadelphia, Pa. Furnace for melting metals. 1,458,283; June 12.
Fauser, Gustave M., Ardsley, N. Y., assignor to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,480; June 12.
Faust, Casper, Oshkosh, Wis. Paper-box construction. 1,458,750; June 12.
Fay, Edward F., assignor to Foster, Merriam and Company, Meriden, Conn. Caster. 1,458,812; June 12.
Fay, J. A., & Egan Company. (See Hirst, James E., assignor.)
Federal Stamping Company. (See DeGlopper, John, assignor.)
Federal Stamping Company. (See Olinger, Thomas, assignor.)
Felch, Theodore K. (See Gibbons, R. C., and Felch.)
Feldenheimer, William, London, W. W. Plowman, East Sheen, and V. Schidrowitz, London, England. Manufacture of rubber. 1,458,693; June 12.
Ferguson, Milford B. (See Haas, Edward, assignor.)
Ferguson, Samuel W., Washington, D. C. Change-speed mechanism. 1,458,400; June 12.
Ferris, Jesse L., Fort Dodge, Iowa. Thermostatic valve. 1,458,813; June 12.
Fibre Container Company. (See Walter, Harrison B., assignor.)
Fisher, Adam E., St. Louis, Mo. Expansible automobile seat. 1,458,173; June 12.
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisher, Walter E., New Iberia, La. Oil-burning apparatus. 1,458,226; June 12.
Fizesán, Justin, Saugerties, N. Y. Automatic ship-steering mechanism. 1,458,174; June 12.
Flable, Thomas J., Pennville, Ind. Vehicle wheel. 1,458,175; June 12.
Flanigan, Robert, Baltimore, Md. Can-closing machine. 1,458,694; June 12.
Fleisher, W. L., & Co. Inc. (See Lissauer, A. W., and Fleisher, assignors.)
Fleisher, Walter L. (See Lissauer, A. W., and Fleisher.)
Flender, John W., Wexford, assignor of one-half to H. Braun, Pittsburgh, Pa. Producing motion pictures. 1,458,401; June 12.
Flower City Specialty Company. (See Nagle, Peter J., assignor.)

Focht, Nevin S., Pottstown, Pa. Shock absorber. 1,458,814; June 12.
Fogarty, William J., Dayton, Ohio. Holder for signs. Des. 62,481; June 12.
Fones, John H., Oakland, Calif. Wrench. 1,458,474; June 12.
Forbes, Edwin G., Berkeley, Calif. Combined ash tray and pipe rest. Des. 62,520; June 12.
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Circuit controller. 1,458,284; June 12.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Forsberg, John, Chicago, Ill. Track raising and shifting apparatus. 1,458,402; June 12.
Fortuna Machine Company. (See Berrer, August, assignor.)
Foster, Merriam and Company. (See Fay, Edward F., assignor.)
Foster, Merriam & Company. (See Rowntree, Frank L., assignor.)
Foster, Walter H. (See Savico, Charles L., assignor.)
Fowler, Elbert, Baltimore, Md., assignor, by mesne assignments, to G. Rawak, New York, N. Y. Electric clock. 1,458,647; June 12.
Fowler, Reginald H. (See Graul, W. L., and Fowler.)
Franck, Val F., assignor of one-third to C. A. Rowland and one-third to W. H. Rowland, Louisville, Ky. Transmission band. 1,458,815; June 12.
Frank, Julius, and J. D. Pirtle, Chicago, Ill. Almond blanching machine. 1,458,695; June 12.
Freed, Edward G., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Attachment for weighing scales. 1,458,475; June 12.
Freeman, Joseph H., Shickshinny, Pa. Horseshoe calk. 1,458,648; June 12.
Freemon, John P., and E. P. McFadden, Ann Arbor, Mich. Changeable exhibitor. 1,458,227; June 12.
Frickey, Edward H., assignor to Dixie Machinery Manufacturing Company, St. Louis, Mo. Crusher. 1,458,914; June 12.
Friden, Carl M. F. (See Johnston, C. L., and Friden.)
Frink, I. P., Inc. (See Spencer, William H., assignor.)
Frischer, Harry, New York, N. Y. Plaited fabric. Des. 62,482; June 12.
Fritz, Peter C., Philadelphia, assignor, by mesne assignments, to Pittsburgh Hand Truck Mfg. Co., Pittsburgh, Pa. Hand truck. 1,458,285; June 12.
Fussner, George, Menominee, Mich., assignor to Signal Electric Mfg. Co. Fluid-tight apparatus. 1,458,620; June 12.
Fyke, Frank C., and J. E. Hunt, Elizabeth, N. J., assignors to Standard Development Company. Tank-outlet valve. 1,458,816; June 12.
Gallor, William H., Saratoga Springs, N. Y. Roller attachment for power-driven machines. 1,458,751; June 12.
Gale, Henry A. (See Cook, O. S., and Gale.)
Gallagher, Frederick S., Yonkers, N. Y., assignor to Rodger Ballast Car Company, Chicago, Ill. Door locking and releasing mechanism. 1,458,330; June 12.
Gallant, Alphee J., Portland, Me. Door-operating mechanism. 1,458,752; June 12.
Gamble, William, and M. Owen; said Gamble assignor to A. W. Penrose and Company Limited, London, England. Applying sheets to printing cylinders. 1,458,477; June 12.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for plying up tire fabric. 1,458,476; June 12.
Gardner, Richard N., San Francisco, Calif. Time calculator. 1,458,649; June 12.
Gardner, Sydney B., Benson, Minn. Pipe-smoker's kit. 1,458,817; June 12.
Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. 1,458,331; June 12.
Garman, Harry B., Detroit, Mich., assignor to Steel Products Company, Cleveland, Ohio. Drag link. 1,458,332; June 12.
Garver, Joseph P., Charleston, Ill. Adjustable seat back. 1,458,879; June 12.
Garvin, Peter J., New York, N. Y. Plumbing system. 1,458,818; June 12.
Gattiker-Tanner, Heinrich. (See Levaillant, Louis, assignor.)
Geoplanus Company, The. (See Hartman, Frederick D., assignor.)
Gershon, Victor P. (See Lloyd, E. A., and Gershon.)
Gibbons, Robert C., and T. K. Felch, Jersey City, N. J. Smoking pipe. 1,458,479; June 12.
Gibbs, Harry D., Penns Grove, N. J., dedicated, by mesne assignments, to the Government of the United States and to the people thereof. Producing a catalyst from vanadium pentoxide and the product thereof. 1,458,478; June 12.
Gibbs, Walter A., Wilmington, Del. Animal trap. 1,458,286; June 12.
Gilbert, William N., assignor to International Scale Company, Dayton, Ohio. Pendulum scale. 1,458,480; June 12.
Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. 1,458,621; June 12.
Gill, Charles H., assignor of one five-thousandth to L. J. Bergamo, one five-thousandth to A. C. Arents, one hundred five-thousandths to M. H. Higginbottom, one five-thousandth to E. Dossmann, one five-thousandth to C. Dossmann, and one five-thousandth to H. Saxe, Chicago, Ill. Spring-winding mechanism. 1,458,333; June 12.
Gill, Charles H., assignor of one five-thousandth to L. J. Bergamo, one five-thousandth to A. C. Arents, one hundred five-thousandths to M. H. Higginbottom, one five-thousandth to E. Dossmann, one five-thousandth to C. Dossmann, and one five-thousandth to H. Saxe, Chicago, Ill. Slippage-governed transmission mechanism. 1,458,334; June 12.
Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
Glamzo, Paul, Brooklyn, assignor of one-third to F. Grimm, New York, and one-third to R. Rittmeyer, Brooklyn, N. Y. Hair curler. 1,458,176; June 12.
Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Beating machine. 1,458,177; June 12.
Glessner, Charles E., Portland, Oreg. Vacuum dehydrator. 1,458,403; June 12.
Glinchikoff, Alexander, Stockton, Calif. Ball catching and throwing racket. 1,458,335; June 12.
Goddard, Walter T., Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Strain clamp for electrical conductors. 1,458,753; June 12.
Goddard, Walter T., Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,458,754; June 12.
Goddard, Walter T., Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,458,755; June 12.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Strain insulator. 1,458,756; June 12.
Goldfarb, Max, New York, N. Y. Radio horn. Des. 62,483; June 12.
Goldin, Horace, New York, N. Y. Illusion device. 1,458,575; June 12.
Goldsborough, Paul, Minneapolis, Minn. Pillar-post structure for batteries. 1,458,757; June 12.
Goldschmidt, Victor M., Christiania, Norway. Production of calcium chloride. 1,458,650; June 12.
Goldschmidt, Victor M., Christiania, Norway. Production of calcium chloride. 1,458,651; June 12.
Good, John, Garden City, N. Y. Internal-combustion engine. 1,458,481; June 12.
Gooding, James C., Wellston, Ohio. Fireproof partition. 1,458,652; June 12.
Goodman, Henry C., Los Angeles, Calif. Rat trap. 1,458,404; June 12.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company. (See Raymond, Harry K., assignor.)
Goodridge, George E. (See Whitman, W. C., and Goodridge.)
Goodwin, Alfred D., Ripon, Calif. Oil-pressure clutch. 1,458,287; June 12.
Goodwin, Hall, Chicago, Ill. Fuse. 1,458,696; June 12.
Goodyear Redwood Co. (See Lawson, Davenport, assignor.)
Government of the United States and to the people thereof. (See Gibbs, Harry D., assignor.)
Graham, Frank A., Harbor Springs, Mich. Lifeboat apparatus. 1,458,880; June 12.
Graham, Herbert W., Pittsburgh, Pa. Air-blast control for blast furnaces. 1,458,288; June 12.
Graham, John S., U. S. Navy. Vehicle signal. 1,458,819; June 12.
Graham, Leslie B., East Chicago, Ind. Condenser for boiler-washing systems. 1,458,697; June 12.
Grandjean, Sidney G., and J. J. Darcey, Braithwaite, La. Illuminated automobile signal. 1,458,336; June 12.
Granzow, Charles F., jr., Detroit, Mich. Garage-door holder. 1,458,289; June 12.
Graul, Walter L., and R. H. Towler, Detroit, Mich. Discharging platform for coke ovens. 1,458,576; June 12.
Gray, Leo M., and M. H. Terpening, Fulton, N. Y. Baling-press follower block. 1,458,758; June 12.
Grentz, Andrew L., Van Nuys, Calif. Lamp shade. Des. 62,484; June 12.
Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Pneumatic grease gun. 1,458,698; June 12.
Greve, Louis W., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Forming metal articles. 1,458,699; June 12.
Grey, Charles M., East Orange, N. J. Die-casting apparatus. 1,458,482; June 12.
Grier, Thomas J., West Palm Beach, Fla. Coupling. 1,458,337; June 12.
Griesemer, Adam, assignor to Simplex Steel Stamping & Manufacturing Company, St. Louis, Mo. Wheel. 1,458,759; June 12.
Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Planter. 1,458,178; June 12.
Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Keyed shaft coupling. 1,458,820; June 12.

Grimm, Frank, et al. (See Glamzo, Paul, assignor.)
Grimshaw, Ralph, and C. J. Weis, Clyde, Ohio. Height indicator for liquids. 1,458,338; June 12.
Grömer, Wolfgang, New York, N. Y. Elevator system. 1,458,881; June 12.
Grosvenor, William M. (See Lloyd, E. A., and Gershon, assignors.)
Grove, Winfield S., Manila, P. I. Method of and apparatus for decorticating fibrous stock. 1,458,700; June 12.
Grover, George, South Norwalk, assignor of one-half to J. Delohery, Danbury, Conn. Machine for scalding fur-napped bodies. 1,458,483; June 12.
Guardino, Leonardo, Brooklyn, N. Y. Automobile signal-light casing. Des. 62,521; June 12.
Haan, Paul C., Upper Nyack, N. Y. Power-transmission means for boats. 1,458,405; June 12.
Haarlander, Otto J., South Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph cabinet. Des. 62,505; June 12.
Haarlander, Otto J., South Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph cabinet. Des. 62,506; June 12.
Haas, Edward, assignor of one-half to M. B. Ferguson, Brooklyn, N. Y. Conveyer mechanism. 1,458,701; June 12.
Habicht, Franz P., assignor to the Firm "Therma," Fabrik für Elektrische Heizung A.-G., Schwanden, Canton of Glarus, Switzerland. Electric rotary switch. 1,458,484; June 12.
Haddon, Ell. (See Skerpstedt, A. B., and Haddon.)
Haering, Joseph, Louisville, Ky. Cow-tail holder. 1,458,821; June 12.
Hagen, Sigvort O., Minneapolis, Minn. Valve. 1,458,228; June 12.
Hagreen, Elmer J. (See Lee, A. M., and Hagreen.)
Hainline, Ellsworth E., and E. C. Culp, Kansas City, Kans. Sash fastener. 1,458,760; June 12.
Hall, Horace C., assignor to Rolls-Royce Limited, Derby, England. Preparing metallic alloys and refining metals and alloys. 1,458,290; June 12.
Hall, Theodore S. (See Cavanaugh, H. F., Hall, and Oliver.)
Halsam Products Company. (See Smith, Andrew, assignor.)
Halter, Elijah T., Philadelphia, Pa. Life-saving device. 1,458,822; June 12.
Ham Boiler Corp. (See Adelmann, Hans, assignor.)
Hamer, Thurston M., Montreal, Quebec, Canada. Car-cleaning apparatus. 1,458,179; June 12.
Hammond, John H., jr., Gloucester, Mass. Advertising device. 1,458,180; June 12.
Hammond, John H., jr., Gloucester, Mass. Smoke producer. 1,458,181; June 12.
Hancock, Randolph B., Gary, Ind. Automatic feeding device. 1,458,339; June 12.
Hancock, Victor A., Oakland, Calif. Dirigible headlight. 1,458,761; June 12.
Hanson, Charles C., and J. Twardowsky, assignors, by mesne assignments, to Universe Corporation, Chicago, Ill. Compressor. 1,458,702; June 12.
Harris, Daniel L., G. L. Coffman, and H. W. Resnick, Wichita, Kans.; said Harris assignor of one-sixth to R. G. Rogers, Ponca City, Okla. Combined signal, spotlight, and mirror. 1,458,703; June 12.
Harris, Daniel L., G. L. Coffman, and H. W. Resnick, Wichita, Kans.; said Harris assignor of one-sixth to R. G. Rogers, Ponca City, Okla. Combined signal spotlight and mirror. 1,458,704; June 12.
Harris, Ford W., Los Angeles, Calif., assignor to Petroleum Rectifying Company. Apparatus for dehydrating petroleum oils. 1,458,291; June 12.
Harris, Frank E., Laramie, Wyo. Air-brake valve. 1,458,882; June 12.
Hart, Lewis E., Needham, Mass. Locking pliers. 1,458,292; June 12.
Hartgens, Diedrich, Union Hill, N. J., assignor to R. A. Tuttle Company, Boston, Mass. Textile fabric. Des. 62,485; June 12.
Hartman, Frederick D., assignor to The Geoplanus Company, Limited, Toronto, Ontario, Canada. Globe map. 1,458,762; June 12.
Harvey, Louis B., assignor to Harvey Rim and Wheel Company, Inc., Buffalo, N. Y. Sectional and demountable rim. 1,458,406; June 12.
Harvey Rim and Wheel Company. (See Harvey, Louis B., assignor.)
Hasemeier, Marie F., Woodward, Okla. Electrothermal bath cabinet. 1,458,182; June 12.
Havens, Beckwith. (See Witmer, C. C., and Havens.)
Hawks, Estus J., Ames, Iowa. Clipping shears. 1,458,407; June 12.
Hawtin, Charles W., assignor of one-half to W. G. Mason, London, England. Shaving brush. 1,458,408; June 12.
Head, Cecil A., Royal Oak, Mich. Electric radiator. 1,458,763; June 12.
Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Asbestos yarn. 1,458,577; June 12.
Hearing, Samuel D., et al. (See Reeves, H., and Cain, assignors.)
Heideman, Fred J., Detroit, Mich., assignor to Kelvinator Corporation, Wilmington, Del. Shaft Seal for compressors. 1,458,183; June 12.
Heitman, Ernest, North Bergen, N. J. Shade support. 1,458,184; June 12.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Exciting system for phase converters. Re15,623; June 12.
Hemphill Company. (See Lawson, Robert H., assignor.)
Hemphill, James R., Akron, Ohio, assignor to The Colonial Sign and Insulator Company. Glove form. 1,458,185; June 12.
Hendershott, Alvin O., Keokuk, Iowa. Nut lock. 1,458,340; June 12.
Henley, Joseph V., St. Louis, Mo. Carburetor. 1,458,578; June 12.
Henry, George J. (See De Bretteville, A., and Henry.)
Heraucourt, Jacob M., New Orleans, La. Automobile theft alarm. 1,458,823; June 12.
Herbert, Henry E., assignor of one-half to J. M. Herbert, Martin, Mich. Powder sprayer. 1,458,341; June 12.
Herbert, Jans M. (See Herbert, Henry E., assignor.)
Hess, Meyer S., Baltimore, Md. Shoe. 1,458,824; June 12.
Hicke, Evelyn. (See Bethke, E., and Hicke.)
Higginbottom, Mack H., et al. (See Gill, Charles H., assignor.)
Higgins, John M., Boothbay Harbor, Me. Shackle. 1,458,622; June 12.
Higham, John, Los Angeles, Calif. Folding oven. 1,458,409; June 12.
Hill, Claude R., Midland, Mich. Testing apparatus. 1,458,529; June 12.
Hiller, Stanley, San Francisco, assignor to Pacific By-Products Company, San Jose, Calif. Method of and apparatus for producing charcoal and by-products. 1,458,410; June 12.
Hilpert, Meier G., assignor to Bethlehem Steel Company, Bethlehem, Pa. Turntable. 1,458,229; June 12.
Hilton, David F., Dennison, Ohio. Lifting jack. 1,458,530; June 12.
Hinchey, Claude E., Weyauga, Wis. Dental tool. 1,458,293; June 12.
Hirsch, Otto C. L., assignor to Sausage Linking Machine Corporation, Chicago, Ill. Sausage linking and hanging machine. 1,458,653; June 12.
Hirst, James E., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Woodworking machinery. 1,458,411; June 12.
Hixson, Charles T. (See Hixson, Earl C. and C. T.)
Hixson, Earl C. and C. T., Ringwood, Okla. Hot-air and steam cooker. 1,458,412; June 12.
Hodgkinson, Edwin, assignor to Taylor Instrument Companies, Rochester, N. Y. Recording instrument. 1,458,531; June 12.
Hoerr, Louis A., St. Louis, Mo. Car door. 1,458,413; June 12.
Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,458,133; June 12.
Holmquist, August, sr., Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Can-filling machine. 1,458,903; June 12.
Holt, Thomas W. (See Morrison, J. W., and Holt.)
Hook, Henry C., Windsor, Vt., assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio. Swaging apparatus. 1,458,294; June 12.
Hoover Company, The, et al. (See Clements, George, assignor.)
Hopp, Max, and M. Levine, New York, N. Y. Price marker. 1,458,705; June 12.
Hotopp, Walter L., Jersey City, N. J. Clothesline post. 1,458,654; June 12.
Houghton, Henry A., Douglas, Isle of Man. Toy or advertising device. 1,458,208; June 12.
House, Henry A., Bridgeport, Conn. Knockdown metal receptacle. 1,458,579; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,522; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,523; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,524; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,525; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,526; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,527; June 12.
Howard, Charles W., Greenwich, Conn., assignor to Consolidated Textile Corporation, New York, N. Y. Textile fabric. Des. 62,528; June 12.
Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. 1,458,186; June 12.
Hudson, Albert E., Beverly Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. 1,458,187; June 12.
Hudson, Albert E. (See Megathlin, R. S., and Hudson.)

Huenefeld, Walter E., Cincinnati, Ohio. Oil burner for stoves. 1,458,414; June 12.
Humbert, William M., Eastside, Oreg. Nut bowl. Des. 62,486; June 12.
Hunt, John E. (See Fyke, F. C., and Hunt.)
Huntley, Ernest R., assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feed system. 1,458,485; June 12.
Hunziker, Franz, Lucerne, Switzerland. Closure for receptacles. 1,458,883; June 12.
Huyck, Edmund N., assignor to F. C. Huyck & Sons, Albany, N. Y. Paper-maker's felt. 1,458,842; June 12.
Huyck, F. C., & Sons. (See Huyck, Edmund N., assignor.)
Hydraulic Pressed Steel Company, The. (See Kranz, H. W., and Lukes, assignors.)
Industrial Research Corporation. (See Huntley, Ernest R., assignor.)
Ingersoll-Rand Company. (See Ditson, J., and Peters, assignors.)
Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
International Corset Company. (See Schopbach, Charles H., assignor.)
International Motor Company. (See Dieter, James F., assignor.)
International Scale Company. (See Gilbert, William N., assignor.)
International Torpedo Boat Corporation. (See Shearer, William B., assignor.)
Irach, Jacob, Long Island City, and J. Markey, New York, N. Y. Amusement device. 1,458,884; June 12.
Irving, James, jr., Cold Brook, N. Y. Wire fastener for fenceposts. 1,458,825; June 12.
Jacobs, James M., East Peoria, Ill. Mud lug for vehicle wheels. 1,458,295; June 12.
Jacobs, Joseph H., assignor to 3-In-One Pressure Cooker Company, Denver, Colo. Support for cooking vessels. 1,458,296; June 12.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Regulating device. 1,458,297; June 12.
Jacquelin, Armand, Paris, France. Oscillating sieve. 1,458,298; June 12.
Jacquelin, Armand, Paris, France. Grid or riddle for sifting minerals, coal, and other materials. 1,458,299; June 12.
Jaeger, Gebhard, Columbus, Ohio. Spout for concrete-mixing machines. 1,458,706; June 12.
Jaeger, Gebhard, Columbus, Ohio. Water tanks for concrete-mixing machines. 1,458,707; June 12.
Jahn, Max H., Gloversville, N. Y. Agricultural implement. 1,458,855; June 12.
Janovjak, Ferdinand, deceased, by J. Janovjak, administrator, Chicago, Ill. Method of and means for projecting colors. 1,458,826; June 12.
Janovjak, Josef, administrator. (See Janovjak, Ferdinand.)
Jarvis, Marshall N., Gildersleeve, Conn. Tap chuck. 1,458,300; June 12.
Jeffress, M. G. (See Steinkeller, Thomas J., assignor.)
Jennet, Newel A., Ranger, Tex. Elevator for sucker rods. 1,458,415; June 12.
Jeppson, George N., assignor to Norton Company, Worcester, Mass. Safety-tread unit. 1,458,708; June 12.
Jewett, William, Richmond, Va. Hand-operated blower. 1,458,827; June 12.
Johnson, Charles M. and E. M., Sacramento, Calif. Portable heater. 1,458,656; June 12.
Johnson, E. Melvin. (See Johnson, Charles M. and E. M.)
Johnson, Frank A., Norfolk, Va. Antislip composition. 1,458,828; June 12.
Johnson, James, South Pasadena, Calif. Form for concrete wall construction. 1,458,416; June 12.
Johnson, John R., Portland, Oreg. Crossing signal for railways. 1,458,885; June 12.
Johnson, Nels A., Van Nuys, Calif. Friction clamp for tamping bars. 1,458,764; June 12.
Johnson, Oscar A., Minneapolis, Minn. Plate-punching machine. 1,458,417; June 12.
Johnston, Clarence L., Oakland, and C. M. F. Friden, Piedmont, Calif. Safety device and switch. 1,458,418; June 12.
Jones, Laban E., and C. R. Wraith, Anaconda, Mont. Automatic combustion regulator. 1,458,419; June 12.
Kackley, Willard H., Byesville, Ohio. Duplex envelope. 1,458,829; June 12.
Kaiserman, Achille, and A. Zaugg, Detroit, Mich. Oil-burning attachment. 1,458,919; June 12.
Kalmus, Comstock & Wescott, Inc. (See Whitney, Lyman F., assignor.)
Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Building construction. 1,458,230; June 12.
Kato, Michael B., Duquesne, Pa. Double-heating combination boiler. 1,458,135; June 12.
Keaton, Robert H., San Francisco, Calif. Automobile tire. Des. 62,487; June 12.
Keel, Harry T., Chester, Pa. Winding reel. 1,458,420; June 12.
Kelm, Gustav R., assignor to W. M. Levett and Walker M. Levett Co., New York, N. Y. Metal mold for piston castings. 1,458,343; June 12.
Kellogg Switchboard & Supply Company. (See Mueller, George E., assignor.)
Kelly, John P., Pittsfield, Mass. By-pass valve for angle cocks. 1,458,765; June 12.
Kelvinator Corporation. (See Heideman, Fred J., assignor.)
Kempter, Fritz, Stuttgart, Germany. Air accumulator. 1,458,209; June 12.
Kendall, William G., Newark, N. J. Vanity case. 1,458,886; June 12.
Kendall, William G., Newark, N. J. Vanity case. 1,458,887; June 12.
Kennedy, James W., Canton, Ohio. Signaling apparatus. 1,458,301; June 12.
Kesling, Elmer G., Bloomfield, Mo. Shifting means for transmission gearing for automobiles. 1,458,421; June 12.
Keystone Foundry Company. (See Miller, J. H., and Pohl, assignors.)
Killiman, Thomas A., Nashville, Tenn. Motion-picture-projection apparatus. 1,458,210; June 12.
Kimes, Elbert B., and J. H. Carson, assignors of one-fourth to O. P. Buller and one-fourth to R. L. Kimes, Fairmount, Ind. Adjustable thrust-bearing attachment for crank shafts. 1,458,344; June 12.
Kimes, Robert L., et al. (See Kimes, E. B., and Carson, assignors.)
King, Herbert C., Toronto, Ontario, Canada. Portable gramophone. 1,458,580; June 12.
Kingsbury, Edwin F., Rutherford, N. J. Photographic shutter. 1,458,211; June 12.
Kirby, Charles H., Detroit, Mich. Steering-gear replacement. 1,458,581; June 12.
Kline, Charles R., Reading, Pa. Furnace and boiler casing. 1,458,582; June 12.
Klingbeil, Gottlieb L. E., Omaha, Nebr. Spring spreader. 1,458,422; June 12.
Klingbeil, Gottlieb L. E., Omaha, Nebr. Spring spreader. 1,458,423; June 12.
Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. 1,458,709; June 12.
Kloepper, Valentine C., St. Louis, Mo. Releasing mechanism for automobile hand brakes and the like. 1,458,136; June 12.
Kloman, Charles A., Bellevue, Pa. Pulverizer. 1,458,486; June 12.
Knapen, Achille, Brussels, Belgium. Building block. 1,458,888; June 12.
Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Surface-grinding machine. 1,458,623; June 12.
Kohn, Ralph R., Philadelphia, Pa. Draft device for locomotives. 1,458,766; June 12.
Kolczewski, Stephen W., Buffalo, N. Y. Device for catching mail and fuel by an airplane in flight. 1,458,710; June 12.
Kollmorgen, Frederick L. G., Mountain Lakes, N. J. Optical instrument. 1,458,137; June 12.
Konar, John, Chicago, Ill. Link-joint-connecting rod. 1,458,345; June 12.
Koppenhafer, Floyd, Shinrock, Ohio. Vehicle direction indicator. 1,458,711; June 12.
Kops Brothers, Inc. (See Kops, Daniel, assignor.)
Kops, Daniel, assignor to Kops Brothers, Inc., New York, N. Y. Apparel corset. 1,458,767; June 12.
Kozlay, Clarence V., assignor to S. Stroock & Company, Inc., New York, N. Y. Textile fabric. Des. 62,529; June 12.
Kranz, Harry W., and J. Lukes, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Clamp for welding-machine attachments. 1,458,138; June 12.
Krauss, Leopold, Indianapolis, Ind. Masonic ring. Des. 62,488; June 12.
Krentz, Charles J., and G. W. Krentz, Buffalo, N. Y. Attachment for radiator caps and the like. 1,458,346; June 12.
Krentz, George W. (See Krentz, Charles J. and G. W.)
Krischer, Max, and C. Rosenblum, Brooklyn, N. Y. Fastener for metal clips. 1,458,487; June 12.
Kruk, Edward, Coplay, Pa. Shock absorber. 1,458,302; June 12.
Kucharski, Stanislaus, Charlottenburg, near Berlin, Germany. Arrangement of centering the film in the gate of cinematograph projectors. 1,458,303; June 12.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,458,904; June 12.
Kysela, Rudolph, assignor of one-half to L. V. Starr, Los Angeles, Calif. Motor-control means and system and method. 1,458,304; June 12.
Ladebauche, Onesime, Woonsocket, R. I. Can-gill guide. 1,458,830; June 12.
Lahan, Edward J., Quincy, Ill. Mud lug. 1,458,305; June 12.
Lahann, Herman. (See Unger, J. W., and Lahann.)
Lambert, Arthur H., Muskegon, Mich., assignor to Muskegon Motor Specialties Company. Micrometer. 1,458,306; June 12.
Lanchester, Frederick W., London, England. Wheel and tire for road vehicles. 1,458,532; June 12.
Lang, David, Brooklyn, N. Y. Child's garment. 1,458,889; June 12.
Lange, Ernest O., Philadelphia, Pa. Speedometer. 1,458,831; June 12.
Lange, Hildur C., New York, N. Y. Doll. Des. 62,489; June 12.

Lantier, Milfard J., Alexandria Bay, N. Y. Luggage carrier for automobiles. 1,458,347; June 12.
La Rose, Eugene E., assignor to Lasco Corporation, Niagara Falls, N. Y. Humidifying and filtering device for internal-combustion engines. 1,458,657; June 12.
Larson, Albert A., Onawa, Iowa. Freight-car door. 1,458,832; June 12.
Lasco Corporation. (See La Rose, Eugene E., assignor.)
Lawson, Davenport, assignor to Goodyear Redwood Co., Elk, Calif. Lead block. 1,458,231; June 12.
Lawson, Robert H., assignor to Hemphill Company, Central Falls, R. I. Knitting machine and producing split fabric. 1,458,833; June 12.
Lederer, Sigmund L., Providence, R. I. Combined leather and metal fabric watch bracelet. Des. 62,490; June 12.
Lederer, Sigmund L., Providence, R. I. Combined leather and metal fabric watch bracelet. Des. 62,491; June 12.
Lee, Amos M., and E. J. Hagreen, Rochester, N. Y. Desk pad. 1,458,488; June 12.
Lee, Henry B., assignor to The D. E. Whiton Machine Company, New London, Conn. Steam packing. 1,458,489; June 12.
Lee, James E., assignor to The Challenge Machinery Company, Grand Haven, Mich. Galley lock. 1,458,712; June 12.
Leedy Manufacturing Company. (See Leedy, Ulysses G., assignor.)
Leedy, Ulysses G., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Foot-control snare control for snare drums. 1,458,905; June 12.
Le Grand, Ruth A., Wilkes-Barre, Pa. Doll. Des. 62,492; June 12.
Leich Electric Company. (See Leich, Oscar M., assignor.)
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Automatically-adjustable bearing. 1,458,658; June 12.
Lemons, Coleman R. (See Lemons, Joseph F., assignor.)
Lemons, Joseph F., assignor of one-half to C. R. Lemons, Adams, Tenn. Apparatus for distributing powder. 1,458,424; June 12.
Leonard, Ross G. (See Dorman, William S., assignor.)
Leperre, Emile F. A. C., Antwerp, Belgium. Apparatus for cutting diamonds. 1,458,768; June 12.
Le Pontois, Leon J., Lakewood, assignor to The Teagle Company, Cleveland, Ohio. Combined ignition and lighting generator. 1,458,139; June 12.
Letsch, Frederick W., Baltimore, Md. Casting mechanism for typographic machines. 1,458,659; June 12.
Levailiant, Louis, Zurich, assignor to H. Gattiker-Tanner, St. Gallen, Switzerland. Dry electric battery. 1,458,307; June 12.
Le Velle, Clarence W., Wichita, Kans. Disappearing electric-fan mechanism. 1,458,348; June 12.
Levett, W. M., and Walker M., Co. (See Kelm, Gustav R., assignor.)
Levine, Henry, Philadelphia, Pa. Collapsible box and manufacturing same. 1,458,349; June 12.
Levine, Max. (See Hopp, M., and Levine.)
Levy, David, New York, N. Y. Fly-paper holder. 1,458,890; June 12.
Levy, Howard S., Philadelphia, Pa. Copyholder. 1,458,713; June 12.
Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,458,188; June 12.
Lewis-Shepard Company. (See Lovejoy, Ralph M., assignor.)
Lewis, William A., Wooster, Ohio. Auto headlight wrench. 1,458,140; June 12.
Liebau, Karl W., Fresno, Calif. Packing. 1,458,660; June 12.
Lindgren, Waldemar L., assignor to A. A. Norton, Chicago, Ill. Vacuum cleaner. 1,458,714; June 12.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. V-grooved sheave. 1,458,425; June 12.
Lindquist, J. V. (See Sargeant, Newton D., assignor.)
Link Belt Company. (See Dull, Raymond W., assignor.)
Lipschutz, George, Philadelphia, Pa. Ground clamp. 1,458,533; June 12.
Lissauer, Adolph W., and W. L. Fleisher, assignors to W. L. Fleisher & Co. Inc., New York, N. Y. Humidifying-apparatus control. 1,458,490; June 12.
Littell, Emlen T. (See Luce, Charles J., assignor.)
Littrell, Frank. (See Skeppstedt, A. B., and Haddon, assignors.)
Litz, Frank P., Corry, Pa. Foot rest. 1,458,426; June 12.
Lloyd, Ellis A., New York, and V. P. Gershon, Brooklyn, assignors to W. M. Grosvenor, New York, N. Y. Making nitrobenzoic acid and intermediates. 1,458,715; June 12.
Lloyd, Harry S. (See Bullock, S. M., and Lloyd.)
Lloyd, Henry G., Surbiton, England. Manufacture of coal or like briquettes. 1,458,716; June 12.
Loadometer Company. (See Troll, Frederick J., assignor.)
Lochwitzky, Alexander M., Austin, Tex. Shoe. 1,458,717; June 12.
Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
Logan, William J., Cleveland, Ohio. Means for baking powder to plates to be etched. 1,458,583; June 12.
Lommel, Wilhelm. (See Engelhardt, R., Lommel, and Ossenbeck.)
Lord, Lawrence S., Lakewood, Ohio. Faucet. 1,458,718; June 12.
Lott, Clyde R., Washington, D. C., assignor, by mesne assignments, to The Owens Bottle Company. Apparatus for producing charges of molten glass. 1,458,834; June 12.
Louden Machinery Company, The. (See Neller, Albert H., assignor.)
Lovejoy, Ralph M., Meredith, N. H., assignor to Lewis-Shepard Company, South Boston, Mass. Elevating truck. 1,458,534; June 12.
Luce, Charles J., Niantic, Conn., assignor of one-half to E. T. Littell, Bayhead, N. J. Cotton-bale-compressing device. 1,458,584; June 12.
Lukes, John. (See Kranz, H. W., and Lukes.)
Lynn, Nathan O., Tucson, Ariz. Dental casting flask. 1,458,835; June 12.
Lyon, Sidney P., Dayton, Ohio. Aircraft landing-gear-cord clamp. 1,458,212; June 12.
McCauley, Ernest G., Dayton, Ohio. Propeller for aircraft. 1,458,213; June 12.
McCauley, Ernest G., Dayton, Ohio. Synchronizing control mechanism for reversible pitch propellers. 1,458,214; June 12.
McCauley, Ernest G., Dayton, Ohio. Propeller reversible blade and wood-retaining ferrule. 1,458,215; June 12.
McCrosson, John T., Honolulu, Hawaii, assignor of one half to E. S. Cochran, New York, N. Y. Vacuum container for cigars, cigarettes, and smoking tobacco. 1,458,585; June 12.
McCrosson, John T., Honolulu, Hawaii, assignor of one-half to E. S. Cochran, New York, N. Y. Packing and preserving cigars, cigarettes, and smoking tobacco. 1,458,586; June 12.
McDermott, George R., Chicago, Ill. Ladle-drying apparatus. 1,458,350; June 12.
McDowell, William A., Stout, Iowa. Signal attachment for mail boxes. 1,458,836; June 12.
McFadden, Eura P. (See Freemon, J. P., and McFadden.)
McGeorge, William T., Honolulu, Hawaii. Treating fruit juices. 1,458,427; June 12.
McHale, Lois T. (See McHale, Ray A., assignor.)
McHale, Ray A., assignor to L. T. McHale, Syracuse, N. Y. Tie brace for concrete forms. 1,458,769; June 12.
McKean, John O., Westfield, Mass. Cop cone. 1,458,587; June 12.
McKee, Ralph H., New York, and H. C. Cooper, White Plains, N. Y.; said Cooper assignor to said McKee. Making oxidized aromatic substances. 1,458,491; June 12.
McKnight Manufacturing Company. (See Astrom, Carl P., assignor.)
McLeod, George T., Boston, assignor to Thomas G. Plant Company, Roxbury, Boston, Mass. Shoe. 1,458,719; June 12.
McNamara, William T. (See Welpley, Walter W., assignor.)
Macdaid, James J., jr., Allston, Boston, assignor to Dennison Manufacturing Company, Framingham, Mass. Crape-strip decoration. 1,458,624; June 12.
Maienschein, Carl A., Evansville, Ind. Shade and curtain bracket. 1,458,232; June 12.
Malivert, Jules E., assignor to the Societe Anoyme des Appareils J. E. Malivert, Paris, France. Vaporizer for liquid-fuel burners. 1,458,891; June 12.
Mallberg, Gustaf L., Vasteras, Sweden. Method of and arrangement for cutting off ingot blocks. 1,458,428; June 12.
Mallett, Charles S., Toronto, Ontario, Canada. Shade holder. 1,458,233; June 12.
Malone, James P., Pittsburgh, Pa. Vacuum cleaning apparatus. 1,458,720; June 12.
Malonyay, Joseph, Debrecen, Hungary. Power-operated plow or other agricultural implement. 1,458,661; June 12.
Markey, James. (See Irsch, J., and Markey.)
Marks, Herbert E., Sewickley, Pa. Roof construction. 1,458,770; June 12.
Marshall, Archie R. (See Brown, F. W., and Marshall.)
Martinsville Glass Manufacturing Co., The. (See Clarke, Ira M., assignor.)
Mason, Arthur C., Hawthorne, N. J. Stop-motion mechanism for warping machines. 1,458,189; June 12.
Mason, William G. (See Hawtin, Charles W., assignor.)
Mathews, Paul L., and B. M. Willis, Newark, N. J. Apparatus for mixing. 1,458,492; June 12.
Mathieson Alkali Works, Inc., The. (See Mauran, Max, assignor.)
Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Method and apparatus for producing carbon. 1,458,351; June 12.
Matsubayashi, Kichigoro. (See Yoshida, I., and Matsubayashi.)
Mauerhofer, Louis, New York, N. Y. Varnish composition. 1,458,493; June 12.
Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Multiple-unit tank car. 1,458,588; June 12.
May, Robert E. L., Hinesville, Ga. Cultivator. 1,458,837; June 12.
Measuregraph Company, The. (See Wheeler, John L., asignor.)

Megathlin, Ralph S., West Somerville, and A. E. Hudson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe parts. 1,458,190; June 12.
Meldrum, Alexander, Syracuse, assignor to The Smith-Lee Company, Oneida, N. Y. Bottle cap. 1,458,535; June 12.
Menning, Otto H., Houston, Tex. Vehicle body. 1,458,352; June 12.
Merchants National Bank. (See Dunn, Edward L., assignor.)
Meredith-Jones, Hubert, assignor of one-half to A. Caverno, New York, N. Y. Adding machine. 1,458,141; June 12.
Merry, Charles P., New Orleans, La. Composition for facilitating the fitting of bearings. 1,458,772; June 12.
Messinger, Norman A., assignor to Pennsylvania Pump and Compressor Co., Easton, Pa. Balancing means for pumps. 1,458,589; June 12.
Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve lifter. 1,458,625; June 12.
Meyer, Adolph E., Webster Groves, assignor to Textile Products Manufacturing Company, St. Louis, Mo. Cotton picker's sack. 1,458,773; June 12.
Meyer, Henry H., Red Wing, Minn. Grain separator. 1,458,429; June 12.
Meyers, William, assignor of one-half to C. L. Ackerman, Lima, Ohio. Wickless oil burner. 1,458,774; June 12.
Miller, Banks L., San Juan, Tex. Heater for burning petroleum coke. 1,458,536; June 12.
Miller, Frank E., Robinson, Ill. Brake-lever slot closure. 1,458,839; June 12.
Miller, Harold C., Bakersfield, assignor to Standard Oil Company, San Francisco, Calif. Separating solids from liquids. 1,458,234; June 12.
Miller, John H., and G. Pohl, assignors to Keystone Foundry Company, Plymouth, Ind. Laundry stove. 1,458,537; June 12.
Miller, John L., Randall, Kans. Hitch. 1,458,838; June 12.
Miller, John W., Kensett, Ark. Tire. 1,458,662; June 12.
Milliner, Edgar, St. Louis, Mo. Melting or soldering pot. 1,458,430; June 12.
Milton, John L., assignor to The Teagle Company, Cleveland, Ohio. Impulse-starter-mechanism for ignition generators. 1,458,431; June 12.
Minneapolis Heat Regulator Company. (See Denison, Frederick S., assignor.)
Mire, Joseph C., Feitel, La. Armored tire. 1,458,191; June 12.
Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Shock absorber. 1,458,494; June 12.
Mitchell Products Company. (See Mitchell, Harry R., assignor.)
Moffat, John H., Indianapolis, Ind. Undergarment. 1,458,892; June 12.
Monroe-Louisiana Carbon Company. (See Matlock, Chauncey, assignor.)
Montalto, Vito, Allentown, Pa. Washing machine. 1,458,235; June 12.
Montgomery, George D. (See Montgomery, John N. and G. D., and Dixon.)
Montgomery, John N. and G. D., and H. A. Dixon, Washington, D. C. Signal. 1,458,840; June 12.
Moore, Austin, Mount Pleasant, Iowa. Disk harrow. 1,458,841; June 12.
Moore, Joseph D., assignor of one-half to J. S. Peterson, Jacksonville, Fla. Switch lock. 1,458,432; June 12.
Moore, Lester L., Winder, Ga. Boll-weevil trap. 1,458,538; June 12.
Morey, Harold A., and C. P. R. Warren, Sault Ste. Marie, Ontario, Canada. Paper-core bundling device. 1,458,236; June 12.
Morisette, Napoleon W., Coleman Township, Ontario, Canada. Safety clamp for diamond-drill rods. 1,458,906; June 12.
Morley, William H., Manchester, N. H. Drip-pan signal. 1,458,663; June 12.
Morral, Samuel E. and W. W., Morral, Ohio. Butt-removing device. 1,458,142; June 12.
Morral, William W. (See Morral, Samuel E. and W. W.)
Morrison, James W., and T. W. Holt, Staleybridge, England. Doubling, twisting, and winding and such like machine. 1,458,495; June 12.
Morse, Benjamin, New York, N. Y. Hose supporter. 1,458,353; June 12.
Moss, Nathan. (See Soylian, George, assignor.)
Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic telephone system. 1,458,907; June 12.
Mueller, William N., Fredericksburg, Iowa. Milking machine. 1,458,237; June 12.
Muller, Hermann J., New York, N. Y. Optical method and apparatus. 1,458,143; June 12.
Mumford, Charles M., Newton Center, Mass. Chute. 1,458,915; June 12.
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murrell, Richard S., assignor of one-third to C. W. Shigley, Columbus, Ohio. Lock. 1,458,539; June 12.
Muskegon Motor Specialties Company. (See Lambert, Arthur H., assignor.)
Musliner, Louis M., New York, N. Y. Leather. Des. 62,493; June 12.
Myer, Herman A., Yakima, Wash. Tire protector and antiskidding device. 1,458,238; June 12.
Myers, Edmund T. D., jr., Richmond, Va. Locomotive combustion regulator. 1,458,540; June 12.
Nagle, Peter J., assignor to Flower City Specialty Company, Rochester, N. Y. Display receptacle. 1,458,541; June 12.
National Biscuit Company. (See Davis, Clarke E., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Carbon Company Inc. (See Arnoll, Arthur G., assignor.)
Neal, Enoch E., Malden, Mass. Bag-filling device. 1,458,626; June 12.
Neal, Enoch E., Malden, Mass. Fastening device for coal chutes. 1,458,627; June 12.
Nell, Joseph B., York, assignor of one-third to C. L. Cobb, Rock Hill, and one-third to J. C. Wilborn, York, S. C. Cotton picker. 1,458,433; June 12.
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Guide for hoisting wheels. 1,458,354; June 12.
Nelson, Henry L., Cannon Falls, Minn. Corn-husking machine. 1,458,721; June 12.
Nelson, Karl O., Milwaukee, Wis. Valve. 1,458,355; June 12.
New England Trust Company, The, trustee. (See Parks, E. F., Brink, and Taylor, assignors.)
New Jersey Patent Company. (See Haarlander, Otto J., assignor.)
Newland, Barnet, New York, N. Y. Chandelier. Des. 62,494; June 12.
Newland, Barnet, New York, N. Y. Chandelier. Des. 62,495; June 12.
Nichols, John. (See Seat, Woodford O., assignor.)
Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Reenforced blade. 1,458,192; June 12.
Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Screening apparatus. 1,458,434; June 12.
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Nilson, Harold G., Detroit, Mich. Loading attachment for trucks. 1,458,775; June 12.
Ninety Nine Publishing Company. (See Cossitt, Harold R., assignor.)
Noble, Edward I. (See Shee, Parke E., assignor.)
Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
Norton, Alfred A. (See Lindgren, Waldemar L., assignor.)
Norton Company. (See Boniface, Arthur, assignor.)
Norton Company. (See Jettson, George N., assignor.)
Nye, Harry, Akron, Ohio. Ball and making same. 1,458,776; June 12.
Obear-Nester Glass Company. (See Young, James M., assignor.)
Obermaier, John A., assignor to Wilmort Manufacturing Company, Chicago, Ill. Safety-match-box holder. 1,458,230; June 12.
O'Brien, Joseph J., Galveston, Tex. Vehicle spring lubricator. No. 1,458,590; June 12.
Offenhauser, Christopher, Philadelphia, Pa. Apparatus for rendering. 1,458,722; June 12.
Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
Ohman, John L., deceased, Niagara Falls, by C. A. White, administrator, assignor to Buffalo Refractory Corporation, Buffalo, N. Y. Refractory composition. 1,458,723; June 12.
Ohman, John L., deceased, Niagara Falls, by C. A. White, administrator, assignor to Buffalo Refractory Corporation, Buffalo, N. Y. Refractory composition. 1,458,724; June 12.
Ohman, John L., deceased, Niagara Falls, by C. A. White, administrator, assignor to Buffalo Refractory Corporation, Buffalo, N. Y. Refractory composition. 1,458,725; June 12.
Ohman, John L., deceased, Niagara Falls, by C. A. White, administrator, assignor to Buffalo Refractory Corporation, Buffalo, N. Y. Refractory composition. 1,458,726; June 12.
O'Kane, William D., Springfield, Ohio. Receptacle for holding cigarettes. 1,458,356; June 12.
Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Damper and damper-clip construction. 1,458,144; June 12.
Oliver, Albert L. (See Cavanaugh, H. F., Hall, and Oliver.)
Oliver, Edwin L. (See Dolbear, Samuel H., assignor.)
Olsen, Simon D. (See Bruner, L. N., and Olsen.)
Olson, Carl P., Irvington, N. J. Film-making machine. 1,458,591; June 12.
Olson, Carl P., Irvington, N. J. Wrapping tissue. 1,458,592; June 12.
Onion, William H., New Orleans, La. Conveyer. 1,458,435; June 12.
Osborn, Alden E., New York, N. Y. Crank-shaft differential gear. 1,458,496; June 12.

Osborne, Harold S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Multiple balancing arrangement for multiplex transmission. 1,458,193; June 12.
Ossenbeck, Anton. (See Engelhardt, R., Lommel, and Ossenbeck.)
Otis Company. (See Rood, William B., assignor.)
Otis Elevator Company. (See Dunn, Edward L., assignor.)
Otis Elevator Company. (See Lindquist, David L., assignor.)
Otterson, George W., Seattle, Wash. Ash collector or like self-loading vehicle. 1,458,240; June 12.
Otterson, George W., Seattle, Wash. Self-loading vehicle. 1,458,241; June 12.
Overgard, Sam, Winifred, Mont. Awl. 1,458,842; June 12.
Owen, Malcolm. (See Gamble, W., and Owen.)
Owens Bottle Company, The. (See Lott, Clyde R., assignor.)
Pacific By-Products Company. (See Hiller, Stanley, assignor.)
Pagel, William F., Sycamore, Ill. Internal-combustion engine. 1,458,771; June 12.
Palmer, Don H. (See Wood, Harry H., assignor.)
Pameyer, John K., Tacoma, Wash. Palette. 1,458,436; June 12.
Papoulias, Angelo, Steubenville, Ohio. Change-making device. 1,458,843; June 12.
Pardy, Raymond F., Bridgeport, Conn. Auxiliary seat for automobiles. 1,458,628; June 12.
Parks, Edward F., and C. A. Brink, Providence, and G. N. Taylor, East Providence, R. I., assignors, by mesne assignments, to The New England Trust Company, trustee. Starting and stopping mechanism for winding machines. 1,458,194; June 12.
Parmenter, Ray E., Longmeadow, Mass. Direction indicator. Des. 62,496; June 12.
Parsons, John F., Pullman, Mich. Molding apparatus. 1,458,145; June 12.
Patterson, Harry R., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Ignition system. 1,458,908; June 12.
Paulin, Frank. (See Sloan, William J., assignor.)
Pavey, William B., assignor to Economy Engineering Company, Chicago, Ill. Portable elevator. 1,458,195; June 12.
Pennsylvania Pump and Compressor Co. (See Messinger, Norman A., assignor.)
Pennsylvania Textile Mills Inc., The. (See Fauser, Gustave M., assignor.)
Penrose, A. W., and Company Limited. (See Gamble, W., and Owen, assignors.)
Perkins, Charles F., assignor of one-half to M. R. Perkins, Lake View, Me. Protector for footwear. 1,458,497; June 12.
Perkins, Frederick S., Milwaukee, Wis. Submarine boat. 1,458,844; June 12.
Perkins, Mamie R. (See Perkins, Charles F., assignor.)
Perry, Ben G. (See Stowe, J., and Perry.)
Peters, Arthur E. (See Litson, J., and Peters.)
Peterson, James S. (See Moore, Joseph D., assignor.)
Petroleum Rectifying Company. (See Harris, Ford W., assignor.)
Petroleum Sand Products Corporation. (See Schwarz, Alfred, assignor.)
Phillips, George F. (See Allen, E. C., and Phillips.)
Picard, Albert C. (See Springer, W. J., and Picard.)
Pickard, Winford D., Norman, Okla. Shade attachment. 1,458,845; June 12.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Gas range. 1,458,196; June 12.
Piel, Paul M., Lake Parlin, Me. Roof and wall construction. 1,458,498; June 12.
Pierce, Charles W., South Duxbury, Mass., assignor of one-half to C. Driscoll, Brockton, Mass. Leather-finishing machine. 1,458,846; June 12.
Pines Manufacturing Company. (See Raleigh, James F., assignor.)
Pipping, Alf, Altoona, Pa. Mold. 1,458,847; June 12.
Pirtle, Joe D. (See Frank, J., and Pirtle.)
Pittsburgh Hand Truck Mfg. Co. (See Fritz, Peter C., assignor.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Plant, Thomas G., Company. (See McLeod, George T., assignor.)
Plasterer, Purl C., Hamilton, assignor to Darn E. Z. Laboratorys, Dayton, Ohio. Cement. 1,458,308; June 12.
Plauson, Hermann, Hamburg, Germany. Manufacture of dispersoids. 1,458,542; June 12.
Plonka, John, Woodlawn, Pa. Conveyer for sheet material. Re15,626; June 12.
Plopils, Victor J., Port Carbon, Pa. Cabinet. 1,458,848; June 12.
Plowman, Walter W. (See Feldenheimer, W., Plowman, and Schidrowitz.)
Pohl, George. (See Miller, J. H., and Pohl.)
Pollak, Fritz, Vienna, Austria. Condensation product and making same. 1,458,543; June 12.
Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Portable stove. 1,458,544; June 12.
Postel, Carl, assignor to American Shale Reduction Company, New York, N. Y. Apparatus for extracting volatile matter. 1,458,357; June 12.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Impulse transmitter. 1,458,545; June 12.
Pratt & Whitney Company. (See Knowles, Carroll, assignor.)
Pratt & Whitney Company. (See Taylor, Charles H., assignor.)
Pratt & Whitney Company. (See Vokal, Paul F., assignor.)
Pratt, Joshua C., Framingham, Mass. Power-transmission device. 1,458,499; June 12.
Prime, Wallace H., Brooklyn, N. Y. Card game. 1,458,849; June 12.
Prince, Arthur C., Chicago, Ill. Bank. 1,458,146; June 12.
Puech, Jules, Paris, France. Tread grip for the wheels of motor or tractor vehicles. 1,458,437; June 12.
Punches, Bert W., Plymouth, Mich. Air gun. 1,458,147; June 12.
Purdy, Chester A., Chicago, Ill. Doughnut machine. 1,458,197; June 12.
Rahmoeller, Henry C., St. Charles, Mo. Gauge for duplicating keys. 1,458,546; June 12.
Raleigh, James F., assignor to Pines Manufacturing Company, Chicago, Ill. Shutter apparatus for radiators. 1,458,593; June 12.
Rapps, Edward J., Phoenix, Ariz. Washing machine. 1,458,308; June 12.
Rath, Henry C., Appleton, Wis. Water elevator. 1,458,850; June 12.
Rathbun, Edgar A., assignor to American Forging and Socket Co., Pontiac, Mich. Vehicle top. 1,458,242; June 12.
Rawak, George. (See Fowler, Elbert, assignor.)
Raymond, Harry K., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vehicle tire. 1,458,629; June 12.
Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Roller skate. 1,458,243; June 12.
Reed, Ralph, Cincinnati, Ohio. Cushion wheel. 1,458,148; June 12.
Reed, Ralph, Cincinnati, Ohio. Shock-absorbing device. 1,458,149; June 12.
Reeves, Herbert, and J. E. Cain, Columbus, assignors of one-half to S. D. Hearing and H. W. Unkel, Zanesville, Ohio. Automobile lock. 1,458,244; June 12.
Rehfuss, Martin O., Philadelphia, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Chain-making machine. 1,458,851; June 12.
Reid, Albert T., Leavenworth, Kans. Toilet case. 1,458,777; June 12.
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Resnick, Helm W. (See Harris, D. L., Coffman, and Resnick.)
Reynolds, Rohde, Houston, Tex. Auxiliary valve for inflating valve tubes. 1,458,438; June 12.
Rice, Joel A. (See Rice, Joel T., R. A., and J. A.)
Rice, Joel T., R. A., and J. A., New York, N. Y. Antifriction roller bearing. 1,458,150; June 12.
Rice, Royal A. (See Rice, Joel T., R. A., and J. A.)
Richmond Lace Works. (See Seel, Hans, assignor.)
Richter, George A., assignor to Brown Company, Berlin, N. H. Making bisulphite cooking liquor. 1,458,309; June 12.
Richter, George A., assignor to Brown Company, Berlin, N. H. Making sulphite liquor. 1,458,310; June 12.
Riedel Fertilizing Process Co. (See Riedel, Friedrich, assignor.)
Riedel, Friedrich, Essen, Germany, assignor to Riedel Fertilizing Process Co., Inc., Elizabeth, N. J. Utilizing impure gases or exhaust gases containing carbon dioxide. 1,458,595; June 12.
Rietz, William, assignor to White Wagon Works, Sheboygan Falls, Wis. Roller bearing. 1,458,594; June 12.
Riley, Michael J., East Cleveland, Ohio. Bolt machine. 1,458,359; June 12.
Rittmeyer, Rudolf, et al. (See Glamzo, Paul, assignor.)
Rivera, Rubén, Sonsonate, Salvador. Hydraulic motor. 1,458,922; June 12.
Riverbank Laboratories. (See Sabine, Paul E., assignor.)
Robbins, Charles H., jr. (See Schenck, Wilkens A., assignor.)
Roberts, John J., Louisville, Ky. Electrically-driven reciprocating tool for riveting, calking, stonecutting, etc. 1,458,430; June 12.
Robertson, John A., and C. F. Speidel, assignors to Eastman Kodak Company, Rochester, N. Y. Camera casing. Des. 62,530; June 12.
Robinson, Edith A., administratrix. (See Robinson, Lawrence E.)
Robinson, Lawrence E., deceased, by E. A. Robinson, administratrix, Coffeyville, Kans. Oil-well swab. 1,458,151; June 12.
Robison, Franklin R., Gloversville, N. Y. Laundry-net receptacle. 1,458,440; June 12.
Rockbestos Products Corporation. (See Heany, John A., assignor.)

Rodger Ballast Car Company. (See Gallagher, Frederick S., assignor.)
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Registering mechanism of gas-analysis apparatus. 1,458,893; June 12.
Roeder & Co. (See Tonke, Wilhelm, assignor.)
Rogers, Ray G. (See Harris, D. L., Coffman, and Resnick, assignors.)
Rojas, Floricel A., New York, N. Y. Rheostat. 1,458,500; June 12.
Rojas, Floricel A., New York, N. Y. Rheostat. 1,458,501; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,497; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,498; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,499; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,500; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other shade. Des. 62,501; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,502; June 12.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Des. 62,503; June 12.
Rolls-Royce Limited. (See Hall, Horace C., assignor.)
Rood, William B., assignor to Otis Company, Ware, Mass. Undergarment. 1,458,547; June 12.
Rooney, Henry E. (See Burley, H. B., and Rooney.)
Roose, Albert J., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,458,311; June 12.
Rosenberg, Morris, Warren, Ohio. Bed corner. 1,458,245; June 12.
Rosenbrook, Freddie V., Chicago, Ill. Combined fender and spare-tire holder for vehicles. 1,458,727; June 12.
Rosenblum, Charles. (See Krischer, M., and Rosenblum.)
Rosendahl, Nils M., assignor of one-half to S. G. Stevens, Duluth, Minn. Trap. 1,458,630; June 12.
Rosner, Rudolf, assignor, by mesne assignments, to Simplex Ignition Corporation, Chicago, Ill. Igniter. 1,458,548; June 12.
Rothkirch, Herman, New York, N. Y. Phonograph. 1,458,596; June 12.
Roto Pump Mfg. Co. (See Ruttledge, William L., assignor.)
Roulet, Norman L., Toledo, Ohio. Pin, button, badge, emblem, or article of similar nature. Des. 62,504; June 12.
Rowe, William E., Crookston, Minn. Quack-grass eradicator. 1,458,441; June 12.
Rowland, Charles A., et al. (See Franck, Val F., assignor.)
Rowland, William H., et al. (See Franck, Val F., assignor.)
Rowntree, Frank L., assignor to Foster, Merriam & Company, Meriden, Conn. Roller-bearing caster. 1,458,778; June 12.
Royal Typewriter Company. (See Camp, Walter D., assignor.)
Royal Typewriter Company. (See Dowd, Bernard J., assignor.)
Ruatti, Joseph B., Los Angeles, Calif. Wheel for motor vehicles. 1,458,779; June 12.
Rubwood, Inc. (See Atwood, Harry N., assignor.)
Ruff, William, New York, N. Y. Hydrocarbon-vapor generator. No. 1,458,502; June 12.
Rush, Alfred H., Phoenixville, Pa. Tile-making machine. 1,458,198; June 12.
Russell, Burdsall & Ward Bolt and Nut Company. (See Bogart, Charles W., assignor.)
Russell, Charles A., jr., Orange, Tex. Supply device for filling stations or stands. 1,458,852; June 12.
Russell, Herbert O., Los Angeles, Calif., and L. J. Scheben, Dayton, Ohio. Trigger motor. 1,458,360; June 12.
Ruttledge, William L., assignor to Roto Pump Mfg. Co., Detroit, Mich. Rotary pump. 1,458,361; June 12.
Ryder, Ely M. T., Yonkers, N. Y. Welded rail joint. 1,458,362; June 12.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube-frame bracket. 1,458,312; June 12.
Sabine, Paul E., assignor of one-half to Riverbank Laboratories, Geneva, Ill. Sound-absorbing plaster. 1,458,631; June 12.
Sachs, Joseph, Hartford, Conn. Electric-appliance-receiving and meter-protecting box or casing. 1,458,728; June 12.
Saklatwalla, Byramji D., and A. N. Anderson, Crafton, Pa., assignors, by mesne assignments, to Vanadium Corporation of America, New York, N. Y. Interrupter. 1,458,729; June 12.
Saladiner, Joseph M., Bryan, Tex. Gathering attachment for boll-weevil exterminators. 1,458,853; June 12.
Saladiner, Joseph M., Bryan, Tex. Seed and poison pouch. 1,458,854; June 12.
Saliada, Clarence E., Huron, S. Dak. Air moistener. 1,458,549; June 12.
Sampson, Archibald T., assignor to Sampson Axcess System, Inc., Lynn, Mass. Adjustable armored bracket. 1,458,916; June 12.
Sampson Axcess System, Inc. (See Sampson, Archibald T., assignor.)
Sandman, August G., Baltimore, Md. Journal box. 1,458,780; June 12.
Sargent, Eaton D., assignor to The White Mountain Freezer Co., Inc., Nashua, N. H. Ice-cream freezer. 1,458,855; June 12.
Sausage Linking Machine Corporation. (See Hirsch, Otto C. L., assignor.)
Savieo, Charles L., Lima, Ohio, assignor to W. H. Foster, New York, N. Y. Blade-adjusting mechanism for cutter heads. 1,458,363; June 12.
Sawyer, Charles A., jr., Newton, Mass. Leather-cutting machine. 1,458,550; June 12.
Saxe, Henry, et al. (See Gill, Charles H., assignor.)
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Separable loose-leaf ledger. 1,458,364; June 12.
Schaefer, Henry H., Weldona, Colo. Gate fastener. 1,458,664; June 12.
Scheben, Laurence J. (See Russell, H. O., and Scheben.)
Schemmel, Robert C., assignor to The Backstay Machine & Leather Company, Union City, Ind. Bow and bow cover for vehicle tops. 1,458,781; June 12.
Schenck, Wilkens A., assignor to C. H. Robbins, jr., Philadelphia, Pa. T square. 1,458,152; June 12.
Scher, Dave, assignor of one-half to J. Thielman, Tacoma, Wash. Bathtub head cushion. 1,458,503; June 12.
Schermuly, Joseph, Wichita, Kans. Three-row ridge cultivator. 1,458,246; June 12.
Schidrowitz, Philip. (See Feldenheimer, W., Plowman, and Schidrowitz.)
Schilling, August, San Francisco, Calif. Storing salt. 1,458,442; June 12.
Schleper, Johannes F., Amsterdam, Netherlands. Wire clamp. 1,458,247; June 12.
Schmitz, Richard, Chicago, Ill. Automobile brake. 1,458,730; June 12.
Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. 1,458,365; June 12.
Schram Glass Manufacturing Company. (See Davidson, Scott, assignor.)
Schwarz, Alfred, Montclair, N. J., assignor to Petroleum Sand Products Corporation. Treating hydrocarbons. 1,458,443; June 12.
Schwarz, Ernest, New York, N. Y. Flexible coupling. 1,458,894; June 12.
Scisorek, Sig, Newark, N. J. Tack. 1,458,856; June 12.
Scott, Charles R., Bells, Tex. Boll-weevil exterminator. 1,458,857; June 12.
Scott, Henry F., assignor to Dennison Manufacturing Company, Framingham, Mass. Tag. 1,458,444; June 12.
Scott, Henry F., assignor to Dennison Manufacturing Company, Framingham, Mass. Tag and making the same. 1,458,445; June 12.
Seat, Woodford O., assignor of one-half to J. Nichols, Nashville, Tenn. Metal mold for concrete blocks. 1,458,551; June 12.
Seel, Hans, Hopkinton, assignor to Richmond Lace Works, Alton, R. I. Lace. Des. 62,507; June 12.
Seifert, Henry R., East Ellsworth, Wis. Process and apparatus for forming piston rings. 1,458,248; June 12.
Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekbank, Christiania, Norway. Producing homogeneous porous materials. 1,458,858; June 12.
Sergeant, Newton D., assignor of one-third to J. V. Lindquist, Bellingham, Wash. Fruit-picker's ladder and conveyer. 1,458,313; June 12.
Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,458,199; June 12.
Shaeffer, Clarence W., Chicago, Ill. Rubber heel. 1,458,446; June 12.
Shamblin, Harvey C., Miami, Okla. Lubricating device. 1,458,895; June 12.
Shapiro, Barnet, Seagate, Brooklyn, N. Y. Lace. Des. 62,508; June 12.
Shapiro, Harry H., New York, N. Y. Dental apparatus. 1,458,782; June 12.
Shaw, Frank H., East Orange, N. J. Vacuum-tube base and receptacle. 1,458,153; June 12.
Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Boat. 1,458,154; June 12.
Shee, Parke E., assignor of one-half to E. I. Noble, Lancaster, Pa. Garment hanger. 1,458,552; June 12.
Shigley, Clarence W. (See Murrell, Richard S., assignor.)
Shipley, Arthur H., Leicester, England. Brush-making machine. 1,458,783; June 12.
Shipley, Arthur H., Leicester, England. Brush-making machine. 1,458,784; June 12.
Shipley, Arthur H., Leicester, England. Brush-making machine. 1,458,785; June 12.
Shipps, Fred C., Coshocton, Ohio. Belt. 1,458,553; June 12.
Shreeve, Herbert E., Maplewood, N. J. Wire-marking device. 1,458,155; June 12.

Signal Electric Mfg. Co. (See Fussner, George, assignor.)
Silver, Henry, Herkimer, N. Y. Table pad. 1,458,731; June 12.
Simplex Ignition Corporation. (See Rosner, Rudolph, assignor.)
Simplex Steel Stamping & Manufacturing Company. (See Griesemer, Adam, assignor.)
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Door lock. 1,458,597; June 12.
Skaer, Arthur H., T. E. Barker, and O. E. Clark, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Reversible drums. 1,458,554; June 12.
Skeppstedt, Axel B., and E. Haddon; said Haddon assignor to F. Littrell, Chicago, Ill. Pasting machine. 1,458,447; June 12.
Sloan, William J., assignor of one-half to F. Paulin, Cleveland, Ohio. Wall receptacle for receiving deliveries. 1,458,200; June 12.
Sloper, Thomas, Devizes, England. Method of and apparatus for manufacturing articles comprising superposed layers of fabric. 1,458,732; June 12.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. 1,458,555; June 12.
Smallwood, Harry J., San Francisco, Calif. Bottle stopper. 1,458,366; June 12.
Smith, Andrew, assignor to Halsam Products Company, Chicago, Ill. Method of and apparatus for elliminating sharp edges and corners on toy blocks. 1,458,733; June 12.
Smith, Charles S., Providence, R. I. Match scratcher. 1,458,556; June 12.
Smith, Henry M., Salem, Mass. Circular warp-knitting machine. 1,458,156; June 12.
Smith, Henry, Lone Rock, Wis. Guard-tilting device for grain binders. 1,458,367; June 12.
Smith, John L., Los Angeles, Calif. Safety bill holder. 1,458,734; June 12.
Smith-Lee Company. (See Meldrum, Alexander, assignor.)
Smith, Peter, Newark, N. J. Cover device for barrels and the like. 1,458,504; June 12.
Smith, Robert W., Redditch, England. Saddle or seat of motor cycles, cycles, and the like. 1,458,909; June 12.
Snyder, Allen E., Bowmanstown, and M. Snyder, Lehighton, Pa. Train-controlling mechanism. 1,458,448; June 12.
Snyder, John M., York, Pa. Combined bench and music cabinet. 1,458,449; June 12.
Snyder, Moses. (See Snyder, Allen E. and M.)
Societe Anonyme des Appareils J. E. Mallvert. (See Mallvert, Jules E., assignor.)
Soderberg, Andrew W., Munhall, Pa. Conveying mechanism. 1,458,859; June 12.
Solomon, Randolph, Washington, D. C. Apparatus for conserving ink. 1,458,560; June 12.
Sönsthagen, Asbjörn, West Ealing, London, England. Coating or decorating apparatus. 1,458,368; June 12.
Souders, Herbert V., Wilmington, Calif. Rotary valve. 1,458,557; June 12.
Soylian, George, Brooklyn, assignor of one-fourth to N. Moss, New York, N. Y. Cloth-laying machine. 1,458,896; June 12.
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spangenberg, Rudolph, assignor to J. L. Call, Oakland, Calif. Wheel gauge. 1,458,598; June 12.
Speidel, Charles F. (See Robertson, J. A., and Speidel.)
Spencer, William H., assignor, by mesne assignments, to I. P. Frink Inc., New York, N. Y. Illuminating device. Re15,624; June 12.
Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
Sprague Canning Machinery Company. (See Holmquist, August, sr., assignor.)
Springer, William J., and A. C. Picard, Detroit, Mich. Lubricating pump. 1,458,369; June 12.
Springowski, William A., Lorain, Ohio. Self-winding hose reel. 1,458,861; June 12.
Stafford, Frank R., Philadelphia, Pa. Making dies. 1,458,599; June 12.
Stafford, Stephen B. (See Start, L. M. Stafford, and Vedder.)
Standard Development Company. (See Fyke, F. C., and Hunt, assignors.)
Standard Oil Company. (See Miller, Harold C., assignor.)
Stankrauff, Frank C., Detroit, Mich. Furnace. 1,458,249; June 12.
Starr, Leo V. (See Kysela, Rudolph, assignor.)
Start, Lester M., S. B. Stafford, and J. W. Vedder, Worcester, Mass. Fourdrinier paper-making machine. 1,458,558; June 12.
Startup, Kenneth S. (See Young, Frank A., assignor.)
Staudinger, William J., Brooklyn, N. Y. Hedge cutter. 1,458,250; June 12.
Stedman, James H., Braintree, Mass. Shoe sole. 1,458,201; June 12.
Steel Products Company, The. (See Garman, Harry B., assignor.)
Steinkeller, Thomas J. Berkeley, assignor to M. G. Jeffress, San Francisco, Calif. Air-brake-control valve. 1,458,370; June 12.
Stenger, John, McKeesport, Pa. Air-hose coupling. 1,458,862; June 12.
Stern, Morris L., Detroit, Mich. Trousers. 1,458,632; June 12.
Sterrick, Harrison D., Pittsburgh, Pa. Shaving and massage brush. 1,458,371; June 12.
Stevens, S. Geo. (See Rosendahl, Nils M., assignor.)
Stevenson, Walter J., London, England. Plastic composition for films or filaments for cinematographic and other industrial purposes. 1,458,505; June 12.
Steward, George H., Rutland, Vt. Multiple-spindle crimper for capping condensed-milk cans and the like. 1,458,735; June 12.
Stewart, George W., Chicago, Ill. Signal lantern. 1,458,665; June 12.
Stewart, William J., Clinton, Iowa. Demountable poultry-feeding battery. 1,458,736; June 12.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,458,251; June 12.
Stokes, Jane G., New York, N. Y. Toy monkey. Des. 62,509; June 12.
Stone, Joseph, and B. G. Perry, Bessemer, Ala. Molding machine. 1,458,897; June 12.
Stoppello, Ralph F., Providence, R. I. Clamp. 1,458,666; June 12.
Story, John H., Merchantville, N. J. Timer. 1,458,252; June 12.
Stout, Hiram, Newton, Kans. Safety bank counter. 1,458,202; June 12.
Strich, Harold J., Brooklyn, assignor to L. D. Bloch & Co., New York, N. Y. Electric-lighting fixture. 1,458,157; June 12.
Stromberg-Carlson Telephone Manufacturing Company. (See Powell, Winfred T., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
Stroock, S., & Company. (See Kozlay, Clarence V., assignor.)
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. System of vacuum production. 1,458,737; June 12.
Sustarich, Joseph, Chicago, Ill. Power hammer. 1,458,667; June 12.
Sutherland, John, Davenport, Iowa. Automatic car-control mechanism. 1,458,158; June 12.
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Swedish Crucible Steel Company. (See Barton, Charles, assignor.)
Sweet, C. O., and Son Company. (See Sweet, Ervin V., assignor.)
Sweet, Ervin V., Attleboro, Mass., assignor to C. O. Sweet and Son Company. Separable fastener. 1,458,559; June 12.
Symington, T. H., Company, The. (See Barrows, Donald S., assignor.)
Symington, T. H., Company, The. (See Wright, Ira O., assignor.)
Taber, Joseph, Millbrook, N. Y. Spiral propeller. 1,458,600; June 12.
Tamamura, Yusuke, Tokyo-fu, Japan. Ropeway car. 1,458,921; June 12.
Tanner, Harry L., Brooklyn, N. Y. Electrodynamic transmission system for vehicles. 1,458,601; June 12.
Tanner, Perry, Ashland, Ky. Reserve-fuel system for automobiles. 1,458,203; June 12.
Taylor, Charles H., Toronto, Ontario, Canada, assignor to Pratt & Whitney Company, New York, N. Y. Thread cutter. Re15,625; June 12.
Taylor, Cornelius L., Huntington, W. Va. Heating stove. 1,458,668; June 12.
Taylor, George N. (See Parks, E. F., Brink, and Taylor.)
Taylor Instrument Companies. (See Hodgkinson, Edwin, assignor.)
Taylor, Ramford G., Seattle, Wash. Tread for automobile tires. Des. 62,510; June 12.
Teagle Company, The. (See Le Pontois, Leon J., assignor.)
Teagle Company, The. (See Milton, John L., assignor.)
Teeken, Edward, Louisville, Ky. Demountable workbench. 1,458,738; June 12.
Terpening, Milton H. (See Gray, L. M., and Terpening.)
Terryberry, Austin, Duluth, Minn. Sectional fire grate. 1,458,669; June 12.
Terzaghi, Giullo, Turin, Italy. Semielliptical spring. 1,458,786; June 12.
Testa, Joseph, East Boston, Mass. Tide motor. 1,458,372; June 12.
Textile Products Manufacturing Company. (See Meyer, Adolph E., assignor.)
"Therma," Fabrik für elektrische Heizung A.-G. (See Habicht, Franz P., assignor.)
Theroz Company, The. (See Popper, Isaac C., assignor.)
Thew Shovel Company, The. (See Weber, Charles A., assignor.)
Thielman, Jack. (See Scher, Dave, assignor.)
Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Ledger sheet. 1,458,253; June 12.
Thomas, R., & Sons Co., The. (See Eckert, Grandon E., assignor.)
Thomson, Mary A., New York, N. Y. Stocking doll. Des. 62,511; June 12.
Thompson, William H., Burbank, Ohio. Washing machine. 1,458,254; June 12.

Thornton, Charles. (See Dierker, William C., assignor.)
3-In-One Pressure Cooker Company. (See Jacobs, Joseph H., assignor.)
Thrift, Samuel L., Stockton, Calif. Shaping machine for laundered collars. 1,458,255; June 12.
Thron, Heinrich, assignor to the Firm of Vereinigte Chininfabrik- en Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Manufacture of alkylized derivatives of hydrocupreine. 1,458,670; June 12.
Tibbetts, Raymond W., Roxbury, Mass. Pump. 1,458,204; June 12.
Titus, Benjamin F., Brixton, England. Device for washing clothes and the like. 1,458,159; June 12.
Tolson, Robert L., assignor, by mesne assignments, to J. W. Farley, trustee, Memphis, Tenn. Tractor. 1,458,560; June 12.
Tonke, Wilhelm, Mittelsteine, assignor to Firm: Roeder & Co., Hanover, Germany. Potato fork. 1,458,910; June 12.
Torello, Peter J. (See Willman, Allie, assignor.)
Traub Manufacturing Company, The. (See Bross, Ernest E., assignor.)
Trivelli, Adriaan P. H., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,458,256; June 12.
Troll, Frederick J., Baltimore, Md., assignor to the Loadometer Company. Road-bearing meter. 1,458,920; June 12.
Trompeter, Lee R., Cedar Rapids, Nebr. Operating table. 1,458,561; June 12.
Trompeter, Lee R., Cedar Rapids, Nebr. Instrument table. 1,458,562; June 12.
Trucksess, Andrew P., Camden, N. J. Sign. 1,458,160; June 12.
Trumbull Steel Company, The. (See Wille, Frederick, assignor.)
Truscon Steel Company. (See Kane, Thomas H., assignor.)
Tuttle, R. A., Company. (See Hartgens, Diedrich, assignor.)
Twardowsky, John. (See Hanson, C. C., and Twardowsky.)
Ullman, Jacob K., New Haven, Conn. Fountain inkwell. 1,458,863; June 12.
Unger, John W., and H. Lahann, Sioux City, Iowa. Drinking fountain for stock. 1,458,450; June 12.
Unkel, Hershel W., et al. (See Reeves, H., and Cain, assignors.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Thomas, Edward, assignor.)
Union Special Machine Company. (See Seymour, Dudley S., assignor.)
Union Switch & Signal Company, The. (See Day, Albert V. T., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Machinery Company, The. (See Cover, Ralph, assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Hudson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Megathlin, R. S., and Hudson, assignors.)
United States Electric Manufacturing Corporation. (See Alschuler, Ernest, assignor.)
United States Chain and Forging Company. (See Rehfuss, Martin O., assignor.)
Universe Corporation. (See Hanson, C. C., and Twardowsky, assignors.)
Upton, John M., Louisville, Ky. Pull attachment for electric-switch key sockets. 1,458,864; June 12.
Upton, William H., New York, N. Y. Vacuum cleaner. 1,458,602; June 12.
Van Melle, Jean, Dubuque, Iowa. Rubber heel. 1,458,257; June 12.
Vanadium Corporation of America. (See Saklatwalla, B. D., and Anderson, assignors.)
Vedder, John W. (See Start, L. M., Stafford, and Vedder.)
Vereinigte Chininfabriken Zimmer & Co. G. m. b. H. (See Thron, Heinrich, assignor.)
Vergano, Lui C., Berkeley, Calif. Windmill governor. 1,458,865; June 12.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vokal, Paul F., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lathe-tool holder. 1,458,633; June 12.
Waage, Alvin H., Rosedale, N. Y. Transformer cooler and electric heater. 1,458,634; June 12.
Wagoner, George A. (See Boring, J. W., and Wagoner.)
Walden, Dan, Scalp Level, Pa. Combined automobile and aeroplane. 1,458,787; June 12.
Walker, James A., Los Angeles, Calif. Knockdown interlocking frame. 1,458,563; June 12.
Wallace, Anthony, New York, N. Y. Drip-pan alarm. 1,458,898; June 12.
Wallbillich, Anthony F., Newark, N. J. Recording apparatus for vehicles. 1,458,451; June 12.
Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. 1,458,161; June 12.
Wambsgans, William H., Peoria, Ill. Joint for artificial limbs. 1,458,788; June 12.
Ward, Artemas. (See Giles, Harvey, assignor.)
Warren, Christopher P. R. (See Morey, H. A., and Warren, assignors.)
Weager, George, and R. White, Malvern Link, England. Golf club. 1,458,564; June 12.
Webb, Hartwell W., Cresskill, N. J. Recording sound. 1,458,603; June 12.
Weber, Charles A., assignor to The Thew Shovel Company, Lorain, Ohio. Means for mounting apparatus on a hoisting boom. 1,458,739; June 12.
Weber, David, et al. (See Eifelt, Clifford S., assignor.)
Webrle Company, The. (See Pickup, George E., assignor.)
Weis, Carl J. (See Grimshaw, R., and Weis.)
Wells, Frank, Kingston, England. Connecting device for fuses and blasting cartridges, etc. 1,458,740; June 12.
Welpley, Walter W., assignor of one-half to W. T. McNamara, Detroit, Mich. Toothbrush holder. 1,458,566; June 12.
Werner, Albert, assignor to Werner Bros., New York, N. Y. Finger ring. Des. 62,513; June 12.
Werner Bros. (See Werner, Albert, assignor.)
Wesson, Maurice T. G., Richmond, Melbourne, Victoria, Australia. Spring suspension for motor cycles. 1,458,506; June 12.
Westbury, William, Caney, Kans. Cylinder-capping device. 1,458,452; June 12.
Westgard, Anna H. (See Westgard, Anton, assignor.)
Westgard, Anton, assignor of one-half to A. H. Westgard, Chicago, Ill. Saw construction. 1,458,671; June 12.
Westinghouse Gear and Dynamometer Company. (See Davis, David C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Weston, William S., Dallas, Tex. Hydraulic clutch. 1,458,565; June 12.
Wetzel, Charles H., Wayne, Pa. Portable structure. 1,458,866; June 12.
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Reduction-gear drive for measuring machines. 1,458,606; June 12.
Wheeling Stamping Company. (See Davis, Walter T., assignor.)
White, Charles A., administrator. (See Ohman, John L.)
White Mountain Freezer Co., The. (See Sargent, Eaton D., assignor.)
White, Roy. (See Weager, G., and White.)
White Wagon Works. (See Rietz, William, assignor.)
Whitenack, Daniel C., Selah, Wash. Fruit-picking receptacles. 1,458,162; June 12.
Whitman, Warren C., Medford Hillside, and G. E. Goodridge, Reading, assignors to Atlas Products Co, Inc., Boston, Mass. Fruit-pitting machine. 1,458,163; June 12.
Whitney, Lyman F., assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Headlight screen. 1,458,635; June 12.
Whiton, D. E., Machine Company, The. (See Lee, Henry B., assignor.)
Whitton, William W., Oakland, Calif. Control mechanism for automobiles. 1,458,258; June 12.
Widas, Frank S. (See Widas, Joseph P., and F. S.)
Widas, Joseph P. and F. S., Caspian, Mich. Miner's knife. 1,458,789; June 12.
Wilborn, J. C., et al. (See Neil, Joseph B., assignor.)
Wilmort Manufacturing Company. (See Obermaier, John A., assignor.)
Wilson, George W., Hopkinsville, Ky. Fence structure. 1,458,260; June 12.
Wille, Frederick, assignor to The Trumbull Steel Company, Warren, Ohio. Testing machine. 1,458,259; June 12.
Williams, J. H., & Co. (See Bufford, George W., assignor.)
Williamson, James, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 62,512; June 12.
Williamson, James, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 62,514; June 12.
Williamson, R., & Company. (See Williamson, James, assignor.)
Willis, Richard M. (See Mathews, P. L., and Willis.)
Willman, Allie, assignor of one-half to P. J. Torello, New Haven, Conn. Intake lock. 1,458,373; June 12.
Wimberly, Oscar N., Jacksonville, Fla. Pocket safety device. 1,458,867; June 12.
Wisconsin Parts Company. (See Cook, Everett J., assignor.)
Wisniowski, Joseph J., Chicopee, Mass. Spark plug. 1,458,636; June 12.
Witmer, Charles C., and B. Havens, assignors to Airships Incorporated, Hammondsport, N. Y. Ball. 1,458,672; June 12.
Wolfe, Harry W., Philadelphia, Pa. Refrigerating apparatus. 1,458,899; June 12.
Wollmann, Jacob, Freeman, S. Dak. Wheel. 1,458,868; June 12.

Wonder Portable Dish Washer Company. (See Cavanaugh, H. F., Hall, and Oliver, assignors.)
Wood, Earl W., Long Beach, Calif. Ice-cream cone. Des. 62,515; June 12.
Wood, Harry H., assignor of one-half to D. H. Palmer, Seattle, Wash. Bag-holding device. 1,458,216; June 12.
Woods, James A., Wichita, Kans. Collar burster and expander. 1,458,567; June 12.
Woodward, William L., Lakewood, Ohio. Making zinc tubing. 1,458,604; June 12.
Woodward, William L., Lakewood, Ohio. Making seamless tubes rich in zinc. 1,458,605; June 12.
Wooldridge, Powhatan J., Pewee Valley, Ky. Safety apparatus for elevators. 1,458,790; June 12.
Wooldridge, Powhatan J., Pewee Valley, Ky. Safety apparatus for elevators. 1,458,791; June 12.
Wraith, Charles R. (See Jones, L. E., and Wraith.)
Wright, Ira O., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. 1,458,792; June 12.
Wulf, Oliver R. (See Daniels, F., and Wulf.)
Yoshida, Ichitaro, and K. Matsubayashi, Osaka, Japan. Horseshoe. 1,458,869; June 12.
Young, Clifford C., Des Moines, Iowa. Valve-spring lifter. 1,458,374; June 12.
Young, Frank A., assignor of one-half to K. S. Startup, Sultan, Wash. Safety hook. 1,458,453; June 12.
Young, James M., Anderson, Ind., assignor to Obear-Nester Glass Company, St. Louis, Mo. Glass-blowing machine. 1,458,454; June 12.
Young, James M., East St. Louis, Ill., assignor to Obear-Nester Glass Company, St. Louis, Mo. Take-out and delivery device for glass-blowing machines. 1,458,455; June 12.
Young, James M., assignor to Obear-Nester Glass Company, St. Louis, Mo. Take-out and steadying device for glass-blowing machines. 1,458,456; June 12.
Zaugg, Albert. (See Kaiserman, A., and Zaugg.)
Zeppelinwerke, Lindau, Gesellschaft mit beschrankter Haftung. (See Dornier, Claudius, assignor.)
Zimmermann, Alois, Yakima, Wash. Combination rear light and signal for automobiles. Des. 62,516; June 12.
Zink, George J., San Francisco, Calif. Spiral rope and cable grip. 1,458,261; June 12.
Zoeller, August, Sacred Heart, Okla. Cotton cleaner. 1,458,870; June 12.
Zyh, Felix, Chicago, Ill. Chafing iron. 1,458,900; June 12.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid and intermediates, Making nitrobenzoic. E. A. Lloyd and V. P. Gershon. 1,458,715; June 12.
Adding machine. F. Collins. 1,458,642; June 12.
Adding machine. H. Meredith-Jones. 1,458,141; June 12.
Adjustable gate. E. E. Anson. 1,458,794; June 12.
Advertisement, Flaming. J. de Elorza. 1,458,526; June 12.
Advertising device. J. H. Hammond, jr. 1,458,180; June 12.
Agricultural implement. M. H. Jahn. 1,458,655; June 12.
Air accumulator. F. Kemper. 1,458,209; June 12.
Aircraft landing-gear-cord clamp. S. P. Lyon. 1,458,212; June 12.
Aircraft, Metallic structure for. C. Dormier. 1,458,645; June 12.
Aircraft propeller. E. G. McCauley. 1,458,213; June 12.
Air moistener. C. E. Sallada. 1,458,549; June 12.
Airplane in flight, Device for catching mail and fuel by an. S. W. Kolczewski. 1,458,710; June 12.
Alarm: *See*—
Automobile theft alarm. Drip-pan alarm.
Alloy, Producing a rustless iron. W. Bennett. 1,458,568; June 12.
Alloys and of refining metals and alloys, Preparing metallic. H. C. Hall. 1,458,290; June 12.
Almond-blanching machine. J. Frank and J. D. Pirtle. 1,458,695; June 12.
Amusement device. J. Irsch and J. Markey. 1,458,884; June 12.
Animal figure or similar article. L. Charteris. Des. 62,475; June 12.
Animal trap. W. A. Gibbs. 1,458,286; June 12.
Antenna selector switch. A. Crossley. 1,458,466; June 12.
Antislip composition. F. A. Johnson. 1,458,828; June 12.
Armored bracket, Adjustable. A. T. Sampson. 1,458,016; June 12.
Asbestos-cement material, Apparatus for forming strips of. R. H. Anderson. 1,458,675; June 12.
Ash collector or like self-loading vehicle. G. W. Otterson. 1,458,240; June 12.
Ash tray and jar cover, Combined. I. M. Clarke. Des. 62,477; June 12.
Ash tray and pipe rest, Combined. E. G. Forbes. Des. 62,520; June 12.
Automobile and aeroplane, Combined. D. Walden. 1,458,787; June 12.
Automobile brake. R. Schmitz. 1,458,730; June 12.
Automobile engine stop. F. L. Cantrall. 1,458,270; June 12.
Automobile hand brakes and the like, Releasing mechanism for. V. C. Kloepper. 1,458,136; June 12.
Automobile hood fastener. J. F. Carpmill. 1,458,746–7; June 12.
Automobile lock. H. Reeves and J. E. Cain. 1,458,244; June 12.
Automobile seat, Expansible. A. E. Fisher. 1,458,173; June 12.
Automobile signal, Illuminated. S. G. Grandjean and J. J. Darcey. 1,458,336; June 12.
Automobile signal-light casing. L. Guardino. Des. 62,521; June 12.
Automobile theft alarm. J. M. Heraucourt. 1,458,823; June 12.
Automobiles, Auxiliary seat for. R. F. Pardy. 1,458,628; June 12.
Automobiles, Combination rear light and signal for. A. Zimmermann. Des. 62,516; June 12.
Automobiles, Control mechanism for. W. W. Whitton. 1,458,258; June 12.
Automobiles, Luggage carrier for. M. J. Lantier. 1,458,347; June 12.
Automobiles, Reserve-fuel system for. P. Tanner. 1,458,203; June 12.
Automobiles, Safety attachment for. J. M. Alter. 1,458,205; June 12.
Automobiles, Shifting means for transmission gearing for. E. G. Keeling. 1,458,421; June 12.
Auto signal, Three-way safety. F. M. Baldwin. 1,458,310; June 12.
Awl. S. Overgard. 1,458,842; June 12.
Axle construction. E. J. Cook. 1,458,684; June 12.
Bag: *See*—
Hand bag.
Bag-filling device. E. E. Neal. 1,458,626; June 12.
Bag-holding device. H. H. Wood. 1,458,216; June 12.
Baling-press follower block. L. M. Gray and M. H. Terpening. 1,458,758; June 12.
Ball. C. C. Witner and B. Havens. 1,458,672; June 12.
Ball and making same. H. Nye. 1,458,776; June 12.
Balloon windlass. W. D. Burton. 1,458,219; June 12.
Bank. A. C. Prince. 1,458,146; June 12.
Bank counter, Safety. H. Stout. 1,458,202; June 12.
Barrels and the like, Cover device for. P. Smith. 1,458,504; June 12.
Barytes, Bleaching. L. K. Ayers. 1,458,461; June 12.
Bath cabinet, Electrothermal. M. F. Hasemeier. 1,458,182; June 12.
Bath-cap-reenforcing machine. J. W. Brundage. 1,458,801; June 12.
Battery: *See*—
Electric battery. Storage battery.
Poultry feeding battery.
Batteries, Pillar-post structure for. P. Goldsborough. 1,458,757; June 12.
Battery box. F. M. Dooley. 1,458,280; June 12.
Battery terminal. A. E. Buchenberg. 1,458,901; June 12.
Bearing, Antifriction roller. J. T., R. A., and J. A. Rice. 1,458,150; June 12.
Bearing, Automatically-adjustable. O. M. Leich. 1,458,658; June 12.
Bearings, Composition for facilitating the fitting of. C. P. Merry. 1,458,772; June 12.
Bearing, Roller. W. Rietz. 1,458,594; June 12.
Beating machine. P. R. Glass. 1,458,177; June 12.
Bed corner. M. Rosenberg. 1,458,245; June 12.
Belt. F. C. Shipps. 1,458,553; June 12.
Bench and music cabinet, Combined. J. M. Snyder. 1,458,449; June 12.
Bill holder, Safety. J. L. Smith. 1,458,734; June 12.
Binders, Guard-tilting device for grain. H. Smith. 1,458,367; June 12.
Bisulphite cooking liquor. G. A. Richter. 1,458,309; June 12.
Bits and rimmers, Apparatus for dressing. R. R. Blackwell. 1,458,320; June 12.
Blade, Reenforced. W. E. Nickerson. 1,458,192; June 12.
Block: *See*—
Baling-press follower block. Lead block.
Building block.
Blocks, Metal mold for concrete. W. O. Seat. 1,458,551; June 12.
Blocks, Method of and arrangement for cutting off ingot. G. L. Mällberg. 1,458,428; June 12.
Blower, Hand-operated. W. Jewett. 1,458,827; June 12.
Board: *See*—
Ironing board.
Boat. W. B. Shearer. 1,458,154; June 12.
Boat, Submarine. F. S. Perkins. 1,458,844; June 12.
Boats, Power transmission for. P. C. Haan. 1,458,405; June 12.
Boiler: *See*—
Combination boiler.
Boiler and water heater. J. Confer. 1,458,876; June 12.
Boiler-washing systems, Condenser for. L. B. Graham. 1,458,697; June 12.
Boll-weevil exterminator. C. R. Scott. 1,458,857; June 12.
Boll-weevil exterminators, Gathering attachment for. J. M. Saladiner. 1,458,853; June 12.
Boll-weevil machine. A. Brigden. 1,458,799–800; June 12.
Boll-weevil trap. L. L. Moore. 1,458,538; June 12.
Bolt: *See*—
Locking bolt.
Bolt machine. M. J. Riley. 1,458,359; June 12.
Book, Clay-modeling. J. R. Aiken. 1,458,508; June 12.
Bottle cap. A. Meldrum. 1,458,535; June 12.
Bottle stopper. H. J. Smallwood. 1,458,366; June 12.
Bowl, Nut-. W. M. Humbert. Des. 62,486; June 12.
Box: *See*—
Battery box. Journal box.
Box and manufacturing same, Collapsible. H. Levine. 1,458,349; June 12.
Bracket: *See*—
Armored bracket. Tube-frame bracket.
Shade and curtain bracket.
Brake: *See*—
Automobile brake.
Brake-rod take-up. P. C. Agee. 1,458,793; June 12.
Brush-making machine. A. H. Shipley. 1,458,783–5; June 12.
Brush, Shaving. C. W. Hawtin. 1,458,408; June 12.

Brush, Shaving and massage. H. D. Sterrick. 1,458,371; June 12.
Building block. A. Knapen. 1,458,888; June 12.
Building construction. T. H. Kane. 1,458,230; June 12.
Burner: *See*—
Oil burner.
Burners, Vaporizer for liquid-fuel. J. E. Malivert. 1,458,891; June 12.
Button. A. Brooke. 1,458,873; June 12.
Button, Collar. C. H. Allen. 1,458,607; June 12.
Button, Cuff. A. H. Bacon. 1,458,164; June 12.
Butt-removing device. S. E. and W. W. Morral. 1,458,142; June 12.
Cabinet. V. J. Plioplis. 1,458,848; June 12.
Cabinet, Dispensing. J. H. Charbeneau. Des. 62,474; June 12.
Carbon, Method and apparatus for producing. C. Matlock. 1,458,351; June 12.
Calcium chloride, Production of. V. M. Goldschmidt. 1,458,650–1; June 12.
Camera casing. J. A. Robertson and C. F. Speidel. Des. 62,530; June 12.
Can-closing machine. R. Flanigan. 1,458,694; June 12.
Can-filling machine. A. Holmquist, sr. 1,458,903; June 12.
Can-gill guide. O. Ladebauche. 1,458,830; June 12.
Cans and the like, Multiple-spindle crimper for capping condensed-milk. G. H. Steward. 1,458,735; June 12.
Carbon dioxide, Utilizing impure gases or exhaust gases containing. F. Riedel. 1,458,595; June 12.
Carburetor. J. V. Henley. 1,458,578; June 12.
Car-cleaning apparatus. T. M. Hamer. 1,458,179; June 12.
Car-control mechanism, Automatic. J. Sutherland. 1,458,158; June 12.
Car door. L. A. Hoerr. 1,458,413; June 12.
Car door, Freight. A. A. Larson. 1,458,832; June 12.
Car-door stop and seal, Railway-. L. W. Boyd. 1,458,388; June 12.
Car, Multiple-unit tank. M. Mauran. 1,458,588; June 12.
Car roof. C. D. Bonsall. 1,458,385–6; June 12.
Car, Ropeway. Y. Tamamura. 1,458,921; June 12.
Car truck. W. S. Adams. 1,458,673–4; June 12.
Cards, Set of playing. B. B. Bley. Des. 62,466; June 12.
Carrier: *See*—
Watermelon carrier.
Case: *See*—
Toilet case. Vanity case.
Caster. E. F. Fay. 1,458,812; June 12.
Caster, Roller-bearing. F. L. Rowntree. 1,458,778; June 12.
Casting machine. W. T. Davis. 1,458,685; June 12.
Castings, Gating. J. F. Dieter. 1,458,222; June 12.
Castings, Metal mold for piston. G. R. Kelm. 1,458,343; June 12.
Catalyst from vanadium pentoxide and the product thereof. H. D. Gibbs. 1,458,478; June 12.
Cellulose-ether composition. A. P. H. Trivelli. 1,458,256; June 12.
Cement. P. C. Plasteret. 1,458,308; June 12.
Ceramic products, Making. E. Anderson. 1,458,376; June 12.
Chafing iron. F. Zyh. 1,458,000; June 12.
Chain belts, Locking link for. R. W. Dull. 1,458,172; June 12.
Chain-making machine. M. O. Rehfuss. 1,458,851; June 12.
Chandelier. B. Newland. Des. 62,494–5; June 12.
Change-making device. A. Papoulias. 1,458,843; June 12.
Charcoal and by-products, Method of and apparatus for producing. S. Hiller. 1,458,410; June 12.
Chart. E. Bönnelycke. 1,458,264; June 12.
Cheese hoop and follower sterilizing washer. H. H. Bathke. 1,458,384; June 12.
Chuck, Tap. M. N. Jarvis. 1,458,300; June 12.
Chute. C. M. Mumford. 1,458,915; June 12.
Chutes, Fastening device for coal. E. E. Neal. 1,458,627; June 12.
Cigars, cigarettes, and smoking tobacco, Packing and preserving. J. T. McCrosson. 1,458,586; June 12.
Cigars, cigarettes, and smoking tobacco, Vacuum container for. J. T. McCrosson. 1,458,585; June 12.
Cigarettes, Receptacle for holding. W. D. O'Kane. 1,458,356; June 12.
Cinematographic and other industrial purposes, Plastic composition for films or filaments for. W. J. Stevenson. 1,458,505; June 12.
Cinematograph projectors, Arrangement of centering the film in the gate of. S. Kucharski. 1,458,303; June 12.
Circuit controller. H. C. Ford. 1,458,284; June 12.
Circuiting device, Short-. H. L. Brump. 1,458,682; June 12.
Clamp: *See*—
Aircraft landing-gear-cord clamp. Ground clamp.
Wire clamp.
Clamp. R. F. Stoppelli. 1,458,666; June 12.
Cleaner: *See*—
Cotton cleaner. Vacuum cleaner.
Spark-plug cleaner. Yarn cleaner.
Cleaning tool. C. R. Berkshire. 1,458,612; June 12.
Clock, Electric. E. Fowler. 1,458,647; June 12.
Cloth-laying machine. G. Soylian. 1,458,896; June 12.
Clothesline post. W. L. Hotopp. 1,458,654; June 12.
Clutch, Hydraulic. W. S. Weston. 1,458,565; June 12.
Coal or like briquettes, Manufacture of. H. G. Lloyd. 1,458,716; June 12.
Coating or decorating apparatus. A. Sönsthagen. 1,458,368; June 12.
Coin assorter. J. W. Boring and G. A. Wagoner. 1,458,515; June 12.
Coke, Heater for burning petroleum. B. L. Miller. 1,458,536; June 12.
Collar burster and expander. J. A. Woods. 1,458,567; June 12.
Collar-retaining device. C. M. Beale. 1,458,797; June 12.
Collars, Shaping machine for laundered. S. L. Thrift. 1,458,255; June 12.
Colors, Method of and means for projecting. F. Janovjak. 1,458,826; June 12.
Combination boiler, Double-heating. M. B. Kato. 1,458,135; June 12.
Combination tool. A. Bangert. 1,458,511; June 12.
Combustion regulator, Automatic. L. E. Jones and C. R. Wraith. 1,458,419; June 12.
Composite fabric. G. O. Coombs. 1,458,918; June 12.
Compressor. C. C. Hanson and J. Twardowsky. 1,458,702; June 12.
Compressors, Shaft seal for. F. J. Heideman. 1,458,183; June 12.
Concrete aggregate, Treating. C. L. Bourne. 1,458,387; June 12.
Concrete forms, Tie brace for. R. A. McHale. 1,458,769; June 12.
Concrete-mixing machines, Spout for. G. Jaeger. 1,458,706; June 12.
Concrete-mixing machines, Water tank for. G. Jaeger. 1,458,707; June 12.
Concrete wall construction, Form for. J. Johnson. 1,458,416; June 12.
Condensation products and making same. F. Pollak. 1,458,543; June 12.
Cone, Cap. J. O. McKean. 1,458,587; June 12.
Conveyer. W. H. Onion. 1,458,435; June 12.
Conveyer for sheet material. J. Plonka. Re15,626; June 12.
Conveyer mechanism. E. Haas. 1,458,701; June 12.
Conveying mechanism. A. W. Soderberg. 1,458,859; June 12.
Cooker, Hot-air and steam. E. C. and C. T. Hixson. 1,458,412; June 12.
Cooker, Meat-loaf. H. Adelman. 1,458,507; June 12.
Cooking vessels, Support for. J. H. Jacobs. 1,458,296; June 12.
Copyholder. H. S. Levy. 1,458,713; June 12.
Corn-husking machine. R. Cover. 1,458,221; June 12.
Corn-husking machine. H. L. Nelson. 1,458,721; June 12.
Cornstalk lifter. L. T. Collin. 1,458,875; June 12.
Corset. S. E. Bemis. 1,458,319; June 12.
Corset. C. H. Schopbach. 1,458,365; June 12.
Corset, Apparel. D. Kops. 1,458,767; June 12.
Cotton-bale-compressing device. C. J. Luce. 1,458,584; June 12.
Cotton cleaner. A. Zoeller. 1,458,870; June 12.
Cotton picker. J. B. Neil. 1,458,433; June 12.
Cotton-picker's sack. A. E. Meyer. 1,458,773; June 12.
Coupling: *See*—
Flexible coupling. Hose coupling.
Shaft coupling.
Coupling. C. S. Cunningham and H. A. Burdwood. 1,458,395; June 12.
Coupling. T. J. Grier. 1,458,337; June 12.
Cow-tail holder. J. Haering. 1,458,821; June 12.
Crape-strip decoration. J. J. Macdaid, jr. 1,458,624; June 12.
Crusher. E. H. Frickey. 1,458,914; June 12.
Cultivator. R. E. L. May. 1,458,837; June 12.
Cultivator, Three-row ridge. J. Schermuly. 1,458,246; June 12.
Cups: *See*—
Priming cup.
Curing rack. P. H. J. Coverdale. 1,458,643; June 12.
Cushion: *See*—
Head cushion.
Cushion wheel. R. Reed. 1,458,148; June 12.
Cutter: *See*—
Hedge cutter. Thread cutter.
Cutter heads, Blade-adjusting mechanism for. C. L. Savieo. 1,458,363; June 12.
Cylinder-capping device. W. Westbury. 1,458,452; June 12.
Cylinders, Applying sheets to printing. W. Gamble and M. Owen. 1,458,477; June 12.
Damper and damper-clip construction. T. Olinger. 1,458,144; June 12.
Dauber. H. E. Everett. 1,458,281; June 12.
Dehydrator, Vacuum. C. E. Giesener. 1,458,403; June 12.
Dental apparatus. H. H. Shapiro. 1,458,782; June 12.
Dental casting flask. N. O. Lynn. 1,458,835; June 12.
Dental tool. C. E. Hinchey. 1,458,293; June 12.
Desk pad. A. M. Lee and E. J. Hagreen. 1,458,488; June 12.
Diamonds, Apparatus for cutting. E. F. A. C. Leperre. 1,458,768; June 12.
Die-casting apparatus. C. M. Grey. 1,458,482; June 12.
Die-casting machine. J. Bate. 1,458,795; June 12.
Dies, Making. F. R. Stafford. 1,458,599; June 12.
Direction indicator. R. E. Parmenter. Des. 62,496; June 12.

Disks, Manufacturing abrasive. S. M. Bullock and H. S. Lloyd. 1,458,322; June 12.
Display cabinet, Electrically-heated. W. L. Brown. 1,458,127; June 12.
Display device. A. Dietsche, jr. 1,458,169–70; June 12.
Dispenser. L. J. Fairbanks. 1,458,282; June 12.
Dispersoids, Manufacture of. H. Plauson. 1,458,542; June 12.
Dishwashing-machine casing. H. F. Cavanaugh, T. S. Hall, and A. L. Oliver. Des. 62,473; June 12.
Doll. H. C. Lange. Des. 62,489; June 12.
Doll. R. A. Le Grand. Des. 62,492; June 12.
Doll, Stocking. M. A. Thomson. Des. 62,511; June 12.
Door construction. J. H. and L. G. Crist. 1,458,748; June 12.
Door lock. E. G. Simpson. 1,458,597; June 12.
Door locking and releasing mechanism. F. S. Gallagher. 1,458,330; June 12.
Door-operating mechanism. A. J. Gallant. 1,458,752; June 12.
Doubling, twisting, and winding and such like machines. J. W. Morrison and T. W. Holt. 1,458,495; June 12.
Doughnut machine. C. A. Purdy. 1,458,197; June 12.
Draft rigging. I. O. Wright. 1,458,792; June 12.
Draft-rigging backstop. D. S. Barrows. 1,458,742; June 12.
Drag link. H. B. Garman. 1,458,331–2; June 12.
Driers, Revolving carriage for. F. C. Chapman. 1,458,393; June 12.
Drip-pan alarm. A. Wallace. 1,458,898; June 12.
Drip-pan signal. W. H. Morley. 1,458,663; June 12.
Drum, Reversible. A. H. Skaer, T. E. Barker, and O. E. Clark. 1,458,554; June 12.
Drums, Foot-control snare control for snare. U. G. Leedy. 1,458,905; June 12.
Ejector. B. L. Coutant. 1,458,523; June 12.
Electric-appliance-receiving and meter-protecting box or casing. J. Sachs. 1,458,728; June 12.
Electric battery, Dry. L. Levailliant. 1,458,307; June 12.
Electric generating groups. E. L. P. Colardeau. 1,458,806; June 12.
Electric rotary switch. F. P. Habicht. 1,458,484; June 12.
Electrical conductors, Strain clamp for. W. T. Goddard. 1,458,753; June 12.
Electrical contact points, Tool for grinding. N. A. Anderson. 1,458,459; June 12.
Electrical control system. W. W. Coblentz. 1,458,165; June 12.
Elevator: *See*—
Portable elevator. Water elevator.
Elevator lock. J. Baer. 1,458,871; June 12.
Elevator system. W. Grömer. 1,458,881; June 12.
Elevators, Hand-rope lock for. E. L. Dunn. 1,458,472; June 12.
Elevators, Safety apparatus for. P. J. Wooldridge. 1,458,790–1; June 12.
Engine: *See*—
Internal-combustion engine.
Engines, Humidifying and filtering device for internal-combustion. E. E. La Rose. 1,458,657; June 12.
Engines, Valve mechanism for internal-combustion. A. Y. Edwards. 1,458,223; June 12.
Engines, Water-cooling apparatus for gas. S. Bowman. 1,458,321; June 12.
Envelope packer. L. D. Darrow. 1,458,809; June 12.
Envelope, Duplex. W. H. Hackley. 1,458,829; June 12.
Ethylene and its homologues, Absorbing. R. Engelhardt, W. Lommel, and A. Ossenbeck. 1,458,646; June 12.
Exhibitor, Changeable. J. P. Freemon and E. P. McFadden. 1,458,227; June 12.
Fabric: *See*—
Composite fabric. Tire fabric.
Fabric, Method and apparatus for manufacturing articles comprising superposed layers of. T. Sloper. 1,458,732; June 12.
Fabric, Plaited. H. Frischer. Des. 62,482; June 12.
Fan mechanism, Disappearing electric. C. W. Le Velle. 1,458,348; June 12.
Fastener for metal clips. M. Krischer and C. Rosenbium. 1,458,487; June 12.
Fastener, Separable. E. V. Sweet. 1,458,559; June 12.
Fastener-setting machine. A. E. Hudson. 1,458,186; June 12.
Fastening device. J. Fairley. 1,458,399; June 12.
Faucet. L. S. Lord. 1,458,718; June 12.
Feeding device, Automatic. R. B. Hancock. 1,458,339; June 12.
Felt, Paper-maker's. E. N. Huyck. 1,458,342; June 12.
Fenceposts, Wire fastener for. J. Irving, jr. 1,458,825; June 12.
Fence structure. G. W. Wilson. 1,458,260; June 12.
Fender: *See*—
Vehicle fender.
Fibrous stock, Method of and apparatus for decorticating. W. S. Grove. 1,458,700; June 12.
Film holders, Loading fixture for. E. C. Allen and G. F. Phillips. 1,458,262; June 12.
Film-making machine. C. P. Olson. 1,458,591; June 12.
Finger ring. A. Werner. Des. 62,513; June 12.
Fire grate, Sectional. A. Terryberry. 1,458,669; June 12.
Fireproof partition. J. C. Gooding. 1,458,652; June 12.
Flag support, Signal-. J. M. Conley. 1,458,808; June 12.
Flexible coupling. C. W. Beck. 1,458,608; June 12.
Flexible coupling. E. Schwarz. 1,458,894; June 12.
Flower holder. K. R. Brossman. Des. 62,471; June 12.
Fluid meter. C. J. Bassler. 1,458,383; June 12.
Fluid-tight apparatus. G. Fussner. 1,458,620; June 12.
Fork: *See*—
Potato fork.
Food machine. W. E. Brobst, jr. 1,458,872; June 12.
Food products, Process and apparatus for classifying. C. E. Davis. 1,458,130; June 12.
Foot rest. F. P. Litz. 1,458,426; June 12.
Footwear, Protector for. C. F. Perkins. 1,458,497; June 12.
Frame: *See*—
Interlocking frame.
Fruit-disintegrating machine. L. A. Babcock. 1,458,315; June 12.
Fruit juices, Treating. W. T. McGeorge. 1,458,427; June 12.
Fruit-picking receptacle. D. C. Whitenack. 1,458,162; June 12.
Fruit-pitting machine. W. C. Whitman and G. E. Goodridge. 1,458,163; June 12.
Fuel-feed system. E. R. Huntley. 1,458,485; June 12.
Furnace. F. C. Stankrauff. 1,458,249; June 12.
Furnace and boiler casing. C. R. Kline. 1,458,582; June 12.
Furnace for melting metals. G. D. Faulds. 1,458,283; June 12.
Furnaces, Air-blast control for blast. H. W. Graham. 1,458,288; June 12.
Furnaces, Feed trough for glass. W. G. Clark. 1,458,522; June 12.
Fur-napped bodies, Machine for scalding. G. Grover. 1,458,483; June 12.
Fuse. H. Goodwin. 1,458,696; June 12.
Fuses and blasting cartridges, etc., Connecting device for. F. Wells. 1,458,740; June 12.
Galley lock. J. E. Lee. 1,458,712; June 12.
Game. F. Bethke and E. Hicke. 1,458,798; June 12.
Game. R. Doner. 1,458,468; June 12.
Game, Baseball. H. R. Cossitt. 1,458,275; June 12.
Game, Card. W. H. Prime. 1,458,849; June 12.
Garage-door holder. C. F. Granzow, jr. 1,458,289; June 12.
Garment, Child's. D. Lang. 1,458,889; June 12.
Garment hanger. P. E. Shee. 1,458,552; June 12.
Gas-analysis apparatus, Registering mechanism of. O. Rodhe. 1,458,893; June 12.
Gate: *See*—
Adjustable gate.
Gate fastener. H. H. Schaefer. 1,458,664; June 12.
Gauge: *See*—
Wheel gauge.
Gear, Crank-shaft differential. A. E. Osborn. 1,458,496; June 12.
Gears, Attachment for differential. J. H. Dair. 1,458,877; June 12.
Generator: *See*—
Hydrocarbon-vapor generator.
Ignition and lighting generator.
Generator and burner, Hydrocarbon. G. N. Blanchard and C. F. Colmar. 1,458,680; June 12.
Generators, Impulse-starter mechanism for ignition. J. L. Milton. 1,458,431; June 12.
Glass, Apparatus for producing charges of molten. C. R. Lott. 1,458,834; June 12.
Glass-blowing machine. J. M. Young. 1,458,454; June 12.
Glass-blowing machines, Take-out and delivery device for. J. M. Young. 1,458,455; June 12.
Glass-blowing machines, Takeout and steadying device for. J. M. Young. 1,458,456; June 12.
Glass, Method of and apparatus for feeding molten. S. Davidson. 1,458,167; June 12.
Glass panels to their supports, Means for fastening. B. J. Dowd. 1,458,618; June 12.
Glass setting, Plate-. F. W. Currier. 1,458,396–8; June 12.
Glove form. J. R. Hemphill. 1,458,185; June 12.
Golf club. G. Weaver and R. White. 1,458,564; June 12.
Governor, Windmill. L. C. Vergano. 1,458,865; June 12.
Grain door. W. Dahlen. 1,458,327; June 12.
Grain separator. H. H. Meyer. 1,458,429; June 12.
Gramophone, Portable. H. C. King. 1,458,580; June 12.
Grass eradicator, Quack-. W. E. Rowe. 1,458,441; June 12.
Grinding machine. V. J. Emery. 1,458,528; June 12.
Grinding machine, Surface-. C. Knowles. 1,458,623; June 12.
Ground clamp. G. Lipschutz. 1,458,533; June 12.
Gun, Air. B. W. Punches. 1,458,147; June 12.
Gun, Pneumatic grease. L. W. Greve. 1,458,698; June 12.
Hair-clipper blade. C. O. Connor. 1,458,326; June 12.
Hair curler. P. Glamzo. 1,458,176; June 12.
Hammer, Power. J. Sustarich. 1,458,667; June 12.
Hand bag. C. S. Eifelt. 1,458,329; June 12.
Hanger: *See*—
Garment hanger.
Hank register. J. L. Burnham. 1,458,323; June 12.
Harrow, Disk. A. Moore. 1,458,841; June 12.
Harvester, Beet. P. J. Boyle. 1,458,615; June 12.
Hat holder. R. A. Bogley. 1,458,638; June 12.
Head cushion, Bathtub. D. Scher. 1,458,503; June 12.
Headlight, Dirigible. V. A. Hancock. 1,458,761; June 12.
Headlight screen. L. F. Whitney. 1,458,635; June 12.

Headlight wrench, Auto. W. A. Lewis. 1,458,140; June 12.
Heater: *See*—
Boiler and water heater
Tank heater.
Portable heater.
Hedge cutter. W. J. Staudinger. 1,458,250; June 12.
Hitch. J. L. Miller. 1,458,838; June 12.
Hoisting boom, Means for mounting apparatus on a. C. A. Weber. 1,458,739; June 12.
Hook: *See*—
Safety hook.
Hook and eye. F. D. Collins and T. H. Coker. 1,458,807; June 12.
Horseshoe. I. Yoshida and K. Matsubayashi. 1,458,869; June 12.
Horseshoe calk. J. Dinkelacker. 1,458,527; June 12.
Horseshoe calk. J. H. Freeman. 1,458,648; June 12.
Hose coupling, Air-. J. Stenger. 1,458,862; June 12.
Hose reel, Self-winding. W. A. Springowski. 1,458,861; June 12.
Hose supporter. B. Morse. 1,458,353; June 12.
Humidifying apparatus control. A. W. Lissauer and W. L. Fleisher. 1,458,490; June 12.
Humidor and ash tray, Combined. I. M. Clarke. Des. 62,476; June 12.
Hydraulic motor. R. Rivera. 1,458,922; June 12.
Hydrocarbon-vapor generator. W. Ruff. 1,458,502; June 12.
Hydrocarbons, Treating. A. Schwarz. 1,458,443; June 12.
Hydrocupreine, Manufacture of alkylized derivatives of. H. Thron. 1,458,670; June 12.
Ice-cream cone. E. W. Wood. Des. 62,515; June 12.
Ice-cream dispensing device. I. S. Erman. 1,458,224; June 12.
Ice-cream freezer. E. D. Sargent. 1,458,855; June 12.
Igniter. R. Rosner. 1,458,548; June 12.
Ignition and lighting generator, Combined. L. J. Le Pontois. 1,458,139; June 12.
Ignition apparatus. F. Aiken. 1,458,375; June 12.
Ignition system. H. R. Patterson. 1,458,908; June 12.
Illuminating device. W. H. Spencer. Re15,624; June 12.
Illusion device. H. Goldin. 1,458,575; June 12.
Impulse transmitter. W. T. Powell. 1,458,545; June 12.
Indicator: *See*—
Vehicle direction indicator.
Injector. C. A. Dawley. 1,458,810; June 12.
Ink, Apparatus for conserving. R. Solomon. 1,458,860; June 12.
Inkwell. V. Dornberger. 1,458,471; June 12.
Inkwell, Fountain. J. K. Ullman. 1,458,863; June 12.
Instrument table. L. R. Trompeter. 1,458,562; June 12.
Insulator. W. T. Goddard. 1,458,754–5; June 12.
Insulator connector. G. E. Eckert. 1,458,811; June 12.
Insulator strain. W. T. Goddard. 1,458,756; June 12.
Intake lock. A. Willman. 1,458,373; June 12.
Interlocking frame, Knockdown. J. A. Walker. 1,458,563; June 12.
Internal-combustion engine. J. Good. 1,458,481; June 12.
Internal-combustion engine. W. F. Pagel. 1,458,771; June 12.
Internal-combustion engine, Rotary. V. Cizek. 1,458,641; June 12.
Interrupter. B. D. Saklatwalla and A. N. Anderson. 1,458,729; June 12.
Iron: *See*—
Chafing iron.
Ironing board. G. Adams. 1,458,314; June 12.
Jack: *See*—
Lifting jack.
Joint: *See*—
Welded rail joint.
Journal box. D. S. Barrows. 1,458,741; June 12.
Journal box. D. S. Barrows. 1,458,743; June 12.
Journal box. A. G. Sandman. 1,458,780; June 12.
Keeper plate, Adjustable. G. E. Anderson. 1,458,637; June 12.
Key cutting machine. F. E. Best. 1,458,217; June 12.
Keys, Gauge for duplicating. H. C. Rahmoeller. 1,458,546; June 12.
Kit, Camp and lunch. A. H. Bishop. 1,458,679; June 12.
Kit, Pipe-smoker's. S. B. Gardner. 1,458,817; June 12.
Knife miner's. J. P. and F. S. Widas. 1,458,789; June 12.
Knitting machine and producing split fabric. R. H. Lawson. 1,458,833; June 12.
Knitting machine, Circular warp-. H. M. Smith. 1,458,156; June 12.
Lace. H. Seel. Des. 62,507; June 12.
Lace. B. Shapiro. Des. 62,508; June 12.
Ladder and conveyer, Fruit-picker's. N. D. Sergeant. 1,458,313; June 12.
Ladle-drying apparatus. G. R. McDermott. 1,458,350; June 12.
Lamp, Battery hand. E. Aischuler. 1,458,124; June 12.
Lamp or other pedestal. F. Roettges. Des. 62,497–500; June 12.
Lamp or other pedestal. F. Roettges. Des. 62,502–3; June 12.
Lamp or other shade. F. Roettges. Des. 62,501; June 12.
Lamp shade. A. L. Grentz. Des. 62,484; June 12.
Lamps, Switch for portable. A. G. Arnoll. 1,458,460; June 12.
Lantern, Decorative. V. E. Dessart. 1,458,687; June 12.
Lantern, Signal. G. W. Stewart. 1,458,665; June 12.
Lathe-tool holder. P. F. Vokal. 1,458,633; June 12.
Lead block. D. Lawson. 1,458,231; June 12.
Lead molding used in galvanoplasty. E. Boudreaux. 1,458,570; June 12.
Leather. L. M. Musliner. Des. 62,493; June 12.
Leather-cutting machine. C. A. Sawyer, jr. 1,458,550; June 12.
Leather-finishing machine. C. W. Pierce. 1,458,846; June 12.
Ledger, Separable loose-leaf. J. Schade. 1,458,364; June 12.
Ledger sheet. E. Thomas. 1,458,253; June 12.
Lever slot closure, Brake-. F. E. Miller. 1,458,839; June 12.
Lifeboat apparatus. F. A. Graham. 1,458,880; June 12.
Life-saving device. E. T. Halter. 1,458,822; June 12.
Lifter: *See*—
Cornstalk lifter.
Valve-spring lifter.
Valve lifter.
Lifting jack. E. C. Bates. 1,458,676; June 12.
Lifting jack. H. H. Burns. 1,458,324; June 12.
Lifting jack. D. F. Hilton. 1,458,530; June 12.
Lighting fixture. J. Williamson. Des. 62,512; June 12.
Lighting fixture. J. Williamson. 62,514; June 12.
Lighting fixture, Electric-. H. J. Strich. 1,458,157; June 12.
Lightning arrester. L. S. Brach. 1,458,611; June 12.
Limbs, Joint for artificial. W. H. Wambsgans. 1,458,788; June 12.
Link-joint-connecting rod. J. Komar. 1,458,345; June 12.
Link, Repair. L. S. Clark. 1,458,571; June 12.
Liquid-fuel-burning appliance. R. G. Breeding. 1,458,266; June 12.
Liquids, Apparatus for the settlement of solid particles suspended in. N. C. Christensen. 1,458,805; June 12.
Liquids, Height indicator for. R. Grimshaw and C. J. Weis. 1,458,338; June 12.
Lock: *See*—
Automobile lock.
Door lock.
Elevator lock.
Galley lock.
Switch lock.
Intake lock.
Nut lock.
Lock. J. H. Castell. 1,458,520; June 12.
Lock. R. S. Murrill. 1,458,539; June 12.
Locking bolt, Auxiliary. W. E. Clark. 1,458,271; June 12.
Locomotive combustion regulator. E. T. D. Myers, jr. 1,458,540; June 12.
Locomotives, Draft device for. R. R. Kohn. 1,458,766; June 12.
Looms, Feeler mechanism for. A. J. Roose. 1,458,311; June 12.
Lubricator: *See*—
Vehicle spring lubricator.
Lubricating device. H. C. Shamblin. 1,458,895; June 12.
Lug, Mud. E. J. Lahan. 1,458,305; June 12.
Mail boxes, Signal attachment for. W. A. McDowell. 1,458,836; June 12.
Manholes and analogous devices, Cover for. T. J. Burton. 1,458,391; June 12.
Map, Globe. F. D. Hartman. 1,458,762; June 12.
Masonic ring. L. Krauss. Des. 62,488; June 12.
Match-box holder, Safety-. J. A. Obermaier. 1,458,239; June 12.
Match plates, Guide for. W. Bock. 1,458,206; June 12.
Match scratcher. C. S. Smith. 1,458,556; June 12.
Measuring machines, Reduction-gear drive for. J. L. Wheeler. 1,458,606; June 12.
Metal and eye member connection. J. De Glopper. 1,458,132; June 12.
Metal articles, Forming. L. W. Greve. 1,458,699; June 12.
Melting or soldering pot. E. Millner. 1,458,430; June 12.
Meter: *See*—
Fluid meter.
Road-bearing meter.
Micrometer. A. H. Lambert. 1,458,306; June 12.
Milking machine. W. N. Mueller. 1,458,237; June 12.
Minerals, coal, and other materials, Grid or riddle for sifting. A. Jacquelin. 1,458,299; June 12.
Mixing, Apparatus for. P. L. Mathews and R. M. Willis. 1,458,492; June 12.
Mold. A. Pipping. 1,458,847; June 12.
Molding apparatus. J. F. Parsons. 1,458,145; June 12.
Molding machine. J. Stone and B. G. Perry. 1,458,897; June 12.
Motor: *See*—
Hydraulic motor.
Trigger motor.
Motor-control means and system and method. R. Kysela. 1,458,304; June 12.
Motor cycles, cycles, and the like, Saddle or seat of. R. W. Smith. 1,458,909; June 12.
Motor cycles, Spring suspension for. M. T. G. Wesson. 1,458,506; June 12.
Nitrogen, Fixation of atmospheric. F. Daniels and O. R. Wulf. 1,458,525; June 12.
Nut lock. A. O. Hendershott; 1,458,340; June 12.
Oil burner. C. P. Astrom. 1,458,378; June 12.
Oil burner, Wickless. W. Meyers. 1,458,774; June 12.
Oil-burning apparatus. W. E. Fisher. 1,458,226; June 12.
Oil-burning attachment. A. Kaiserman and A. Jaugg. 1,458,919; June 12.
Oil-can holder. C. W. Beck. 1,458,609; June 12.
Oil-pressure clutch. A. D. Goodwin. 1,458,287; June 12.
Oils, Apparatus for dehydrating petroleum. F. W. Harris. 1,458,291; June 12.
Operating table. L. R. Trompeter. 1,458,561; June 12.

Optical instrument. F. L. G. Kollmorgen. 1,458,137; June 12.
Optical method and apparatus. H. J. Muller. 1,458,143; June 12.
Ordnance recoil apparatus. A. T. Dawson and G. T. Buckham. 1,458,686; June 12.
Ores, Method of and apparatus for concentrating. S. H. Dolbear. 1,458,467; June 12.
Organ pipe. C. E. Barkstrom. 1,458,382; June 12.
Oven, Folding. J. Higham. 1,458,409; June 12.
Ovens, Discharging platform for coke. W. L. Graul and R. H. Towler. 1,458,576; June 12.
Oxidized aromatic substances, Making. R. H. McKee and H. C. Cooper. 1,458,491; June 12.
Packing. K. W. Liebau. 1,458,660; June 12.
Packing material. J. A. Cummings, jr. 1,458,574; June 12.
Pad: *See*—
Desk pad.
Table pad.
Palette. J. K. Pameyer. 1,458,436; June 12.
Paper-box construction. C. Faust. 1,458,750; June 12.
Paper contained in a magazine and for folding such sheets, Apparatus for effecting the extraction successively of sheets of. R. Braunstein. 1,458,462; June 12.
Paper contained in a magazine, Apparatus for effecting the gripping, the extraction, and the folding of sheets of. R. Braunstein. 1,458,463; June 12.
Paper-core bundling device. H. A. Morey and C. P. R. Warren. 1,458,236; June 12.
Paper holder, Fly-. D. Levy. 1,458,890; June 12.
Paper-making machine, Fourdrinier. L. M. Start, S. B. Stafford, and J. W. Vedder. 1,458,558; June 12.
Pasting machine. A. B. Skeppstedt and E. Haddon. 1,458,447; June 12.
Petals, Producing artificial flower. E. W. Bell. 1,458,513; June 12.
Phase converters, Exciting system for. R. E. Hellmund. Re15,623; June 12.
Phonograph. H. Rothkirch. 1,458,596; June 12.
Phonograph cabinet. O. J. Haarlander. Des. 62,505–6; June 12.
Photographic-paper receptacle. W. C. Cox. 1,458,166; June 12.
Photographic shutter. E. F. Kingsbury. 1,458,211; June 12.
Picker: *See*—
Cotton picker.
Picture machine, Moving-. W. J. Blankenberg. 1,458,911; June 12.
Picture-projection apparatus, Motion-. T. A. Killman. 1,458,210; June 12.
Pictures, Producing motion. J. W. Flender. 1,458,401; June 12.
Pin, button, badge, emblem, or article of similar nature. N. L. Rouiet. Des. 62,504; June 12.
Pin or badge. R. B. Bryant. Des. 62,472; June 12.
Pinion drives, Pressure-distributing device for double-. D. C. Davis. 1,458,131; June 12.
Pipe: *See*—
Organ pipe.
Smoking pipe.
Piston ring. J. H. Brenner. 1,458,207; June 12.
Piston rings, Process and apparatus for forming. H. R. Seifert. 1,458,248; June 12.
Planer and system of motor control therefor. H. L. Blood. 1,458,613; June 12.
Planer, Block. O. S. Cook and H. A. Gale. 1,458,220; June 12.
Planter. R. H. Griffith. 1,458,178; June 12.
Plaster, Sound absorbing. P. E. Sabine. 1,458,631; June 12.
Plate-punching machine. O. A. Johnson. 1,458,417; June 12.
Plates to be etched, Means for baking powder to. W. J. Logan. 1,458,583; June 12.
Pliers, Locking. L. E. Hart. 1,458,292; June 12.
Plow or other agricultural implement, Power-operated. J. Malofnay. 1,458,661; June 12.
Plumbing system. P. J. Garvin. 1,458,818; June 12.
Pneumatic tool driven by pulsating air. K. A. T. Berg. 1,458,569; June 12.
Pocket safety device. O. N. Wimberly. 1,458,867; June 12.
Porous material, Producing homogeneous. M. O. Sem. 1,458,858; June 12.
Portable elevator. W. B. Pavey. 1,458,195; June 12.
Portable heater. C. M. and E. M. Johnson. 1,458,656; June 12.
Post: *See*—
Clothesline post.
Potato fork. W. Touke. 1,458,910; June 12.
Pouch, Seed and poison. J. M. Saladiner. 1,458,854; June 12.
Poultry-feeding battery, Demountable. W. J. Stewart. 1,458,736; June 12.
Powder, Apparatus for distributing. J. F. Lemons. 1,458,424; June 12.
Power-driven machines, Roller attachment for. W. H. Gailor. 1,458,751; June 12.
Power-transmission device. J. C. Pratt. 1,458,499; June 12.
Press. A. E. Hudson. 1,458,187; June 12.
Press. W. Klocke. 1,458,709; June 12.
Presses, Safety device for power. J. F. Duxbury. 1,458,688; June 12.
Price marker. M. Hopp and M. Levine. 1,458,705; June 12.
Priming cup. C. W. Beck. 1,458,610; June 12.
Propeller reversible blade and wood-retaining ferrule. E. G. McCauley. 1,458,215; June 12.
Propeller, Spiral. J. Taber. 1,458,609; June 12.
Propellers, Synchronizing control mechanism for reversible pitch. E. G. McCauley. 1,458,214; June 12.
Pulverizer. C. A. Kloman. 1,458,486; June 12.
Pump. R. W. Tibbetts. 1,458,204; June 12.
Pump, Lubricating. W. J. Springer and A. C. Picard. 1,458,369; June 12.
Pump, Rotary. W. L. Ruttledge. 1,458,361; June 12.
Pumps, Balancing means for. N. A. Messinger. 1,458,589; June 12.
Punch, Pedestal. J. Ditson and A. E. Peters. 1,458,328; June 12.
Rack: *See*—
Curing rack.
Vending rack.
Racket, Ball catching and throwing. A. Glinchikoff. 1,458,335; June 12.
Radiator. E. T. Curran. 1,458,128; June 12.
Radiator bushing. A. A. Best. 1,458,678; June 12.
Radiator caps and the like, Attachment for. C. J. and G. W. Krentz. 1,458,346; June 12.
Radiator, Electric. C. A. Head. 1,458,763; June 12.
Radiators, Shutter apparatus for. J. F. Raleigh. 1,458,593; June 12.
Radio horn. M. Goldfarb. Des. 62,483; June 12.
Rail spreader. G. W. Burlison. 1,458,804; June 12.
Railway-traffic-controlling apparatus. L. V. Lewis. 1,458,188; June 12.
Railways, Crossing signal for. J. R. Johnson. 1,458,885; June 12.
Range, Gas. G. E. Pickup. 1,458,196; June 12.
Rat trap. H. C. Goodman. 1,458,404; June 12.
Receptacle, Display. P. J. Nagle. 1,458,541; June 12.
Receptacle, Knockdown metal. H. A. House. 1,458,579; June 12.
Receptacle, Laundry-net. F. R. Robison. 1,458,440; June 12.
Receptacles, Closure for. F. Hunziker. 1,458,883; June 12.
Recording instrument. E. Hodgkinson. 1,458,531; June 12.
Reel: *See*—
Hose reel.
Winding reel.
Refractory composition. J. L. Ohman. 1,458,723–6; June 12.
Refractory material, Noncrystallized. W. A. Farish. 1,458,913; June 12.
Refrigerating apparatus. H. W. Wolfe. 1,458,899; June 12.
Register: *See*—
Hank register.
Registering mechanism. W. Arthur. 1,458,509; June 12.
Regulating device. D. S. Jacobus. 1,458,297; June 12.
Regulator: *See*—
Combustion regulator.
Locomotive combustion regulator.
Rendering apparatus. C. Offenhauser. 1,458,722; June 12.
Reversing machines, Controller for. E. L. Dunn. 1,458,902; June 12.
Rheostat. F. A. Rojas. 1,458,500–1; June 12.
Rim, Sectional and demountable. L. B. Harvey. 1,458,406; June 12.
Ring: *See*—
Piston ring.
Ring. E. E. Bross. Des. 62,470; June 12.
Rings, Making traveler. R. Crompton. 1,458,573; June 12.
Riveting, calking, stonecutting, etc., Electrically-driven reciprocating tool for. J. J. Roberts. 1,458,439; June 12.
Road-bearing meter. F. J. Troll. 1,458,920; June 12.
Rod: *See*—
Link-joint-connecting rod.
Rods, Elevator for sucker. N. A. Jennet. 1,458,415; June 12.
Rods, Safety clamp for diamond-drill. N. W. Morisette. 1,458,906; June 12.
Roll, Finishing. G. Baehr. 1,458,381; June 12.
Roof and wall construction. P. M. Piel. 1,458,498; June 12.
Roof construction. H. E. Marks. 1,458,770; June 12.
Rope and cable grip, Spiral. G. J. Zink. 1,458,261; June 12.
Rubber heel. C. W. Shaeffer. 1,458,446; June 12.
Rubber heel. J. Van Melle. 1,458,257; June 12.
Rubber, Manufacture of. W. Feldenheimer, W. W. Plowman, and P. Schidrowitz. 1,458,693; June 12.
Safety device and switch. C. L. Johnston and C. M. F. Friden. 1,458,418; June 12.
Safety hook. F. A. Young. 1,458,453; June 12.
Salesbook, Manifolding. E. K. Bottle. 1,458,265; June 12.
Salt, Storing. A. Schilling. 1,458,442; June 12.
Sash fastener. E. E. Hainline and E. C. Culp. 1,458,760; June 12.
Sausage linking and hanging machine. O. C. L. Hirsch. 1,458,653; June 12.
Saw construction. A. Westgard. 1,458,671; June 12.
Scale, Pendulum. W. N. Gilbert. 1,458,480; June 12.
Scales, Attachment for weighing. E. G. Freed. 1,458,475; June 12.

Scarifier. E. F. Cookinham and D. B. Cook. 1,458,394; June 12.
Scissors or pruners for cutting fruit, flowers, or the like. F. Dexter. 1,458,878; June 12.
Scraper, Wheel. F. H. and F. S. Beach. 1,458,512; June 12.
Screen: *See*—
Headlight screen. Window screen.
Screening apparatus. W. E. Nickerson. 1,458,434; June 12.
Seat: *See*—
Automobile seat.
Seat back, Adjustable. J. P. Garver. 1,458,879; June 12.
Semielliptical spring. G. Terzaghi. 1,458,786; June 12.
Separator: *See*—
Grain separator.
Septic tank. C. W. Baumgardner. 1,458,796; June 12.
Sewing machines, Feeding mechanism for. D. S. Seymour. 1,458,199; June 12.
Shackle. J. M. Higgins. 1,458,622; June 12.
Shade and curtain bracket. C. A. Maienschein. 1,458,232; June 12.
Shade attachment. W. D. Pickard. 1,458,845; June 12.
Shade holder. C. S. Mallett. 1,458,233; June 12.
Shade support. E. Heitman. 1,458,184; June 12.
Shaft coupling, Keyed. R. H. Griffith. 1,458,820; June 12.
Shafts, Adjustable thrust-bearing attachment for crank. E. B. Kimes and J. H. Carson. 1,458,344; June 12.
Shears, Clipping. E. J. Hawks. 1,458,407; June 12.
Sheave, V-grooved. D. L. Lindquist. 1,458,425; June 12.
Sheet accumulator. D. Belcher. 1,458,317; June 12.
Ship-steering mechanism, Automatic. J. Fizesán. 1,458,174; June 12.
Shock absorber. N. S. Focht. 1,458,814; June 12.
Shock absorber. A. De Bretteville and G. J. Henry. 1,458,278; June 12.
Shock absorber. E. R. Draver. 1,458,912; June 12.
Shock absorber. E. Krak. 1,458,302; June 12.
Shock absorber. H. R. Mitchell. 1,458,494; June 12.
Shock-absorbing device. E. S. Bradfield. 1,458,517; June 12.
Shock-absorbing device. R. Reed. 1,458,149; June 12.
Shoe. M. S. Hess. 1,458,824; June 12.
Shoe. G. T. McLeod. 1,458,719; June 12.
Shoe. A. M. Lochwitzky. 1,458,717; June 12.
Shoe-heel bases, Making. O. T. Crafts. 1,458,524; June 12.
Shoe parts, Machine for operating upon. R. S. Megathlin and A. E. Hudson. 1,458,190; June 12.
Shoe sole. J. H. Stedman. 1,458,201; June 12.
Shuttle tension. W. Canova. 1,458,639; June 12.
Sieve, Oscillating. A. Jacquelin. 1,458,298; June 12.
Sign. J. C. Boyd. 1,458,516; June 12.
Sign. A. P. Trucksess. 1,458,160; June 12.
Sign holder. W. J. Fogarty. Des. 62,481; June 12.
Signal: *See*—
Auto signal. Drip-pan signal.
Automobile signal. Vehicle signal.
Signal. J. N. and G. D. Montgomery and H. A. Dixon. 1,458,840; June 12.
Signal, spotlight, and mirror, Combined. D. L. Harris, G. L. Coffman, and H. W. Resnick. 1,458,703–4; June 12.
Signaling apparatus. J. W. Kennedy. 1,458,301; June 12.
Silk, Manufacture of viscose. E. Bronnert. 1,458,389; June 12.
Skate, Roller. W. F. Resch. 1,458,243; June 12.
Skiving machine. A. Berrer. 1,458,677; June 12.
Slashers, Renovating attachment for. L. L. Evans. 1,458,473; June 12.
Sled, Push. M. O. Carlson. 1,458,392; June 12.
Smoke producer. J. H. Hammond, jr. 1,458,181; June 12.
Smoking pipe. R. C. Gibbons and T. K. Felch. 1,458,479; June 12.
Sockets, Pull attachment for electric switch key. J. M. Upton. 1,458,864; June 12.
Sole tip. E. J. Brisben. 1,458,218; June 12.
Solids from liquids, Separating. H. C. Miller. 1,458,234; June 12.
Sound, Recording. H. W. Webb. 1,458,603; June 12.
Spark plug. J. J. Wisniowski. 1,458,636; June 12.
Spark-plug cleaner. F. P. Elwell. 1,458,690–1; June 12.
Speed device, Change-. F. Donon. 1,458,469; June 12.
Speed governor. W. S. Dorman. 1,458,470; June 12.
Speed mechanism, Change-. S. W. Ferguson. 1,458,400; June 12.
Speedometer. E. O. Lange. 1,458,831; June 12.
Sprayer, Powder. H. E. Herbert. 1,458,341; June 12.
Spring: *See*—
Semielliptical spring.
Spring spreader. G. L. E. Klingbell. 1,458,422–3; June 12.
Spring suspension. H. W. Bell. 1,458,318; June 12.
Spring-winding mechanism. C. H. Gill. 1,458,333; June 12.
Stair unit, Slipproof. A. Boniface. 1,458,681; June 12.
Stand: *See*—
Tank stand.
Stapling machine, Multiple. H. B. Walter. 1,458,161; June 12.
Stations or stands, Supply device for filling. C. A. Russell, jr. 1,458,852; June 12.
Steam packing. H. B. Lee. 1,458,489; June 12.
Steering-gear replacement. C. H. Kirby. 1,458,581; June 12.
Stock, Drinking fountain for. J. W. Unger and H. Lahaun. 1,458,450; June 12.
Stopper: *See*—
Bottle stopper.
Storage battery. E. Anderson. 1,458,377; June 12.
Stove, Domestic heating. H. L. Doherty. 1,458,279; June 12.
Stove, Heating. C. L. Taylor. 1,458,668; June 12.
Stove, Laundry. J. H. Miller and G. Pohl. 1,458,537; June 12.
Stove, Portable. I. C. Popper. 1,458,544; June 12.
Stoves, Oil burner for. W. E. Huenefeld. 1,458,414; June 12.
Strainer. D. Byers. 1,458,464; June 12.
Structure, Portable. C. H. Wetzel. 1,458,866; June 12.
Surface-treating machine, Motor-driven. A. A. Clarke. 1,458,874; June 12.
Sulphite liquor, Making. G. A. Richter. 1,458,310; June 12.
Switch: *See*—
Antenna selector switch. Electric rotary switch.
Switch lock. J. D. Moore. 1,458,432; June 12.
Switch mechanism. F. S. Denison. 1,458,749; June 12.
Swaging apparatus. H. C. Hook. 1,458,294; June 12.
Table: *See*—
Instrument table. Operating table.
Table pad. H. Silver. 1,458,731; June 12.
Tack. S. Scisorek. 1,458,856; June 12.
Tag. H. F. Scott. 1,458,444; June 12.
Tag and making the same. H. F. Scott. 1,458,445; June 12.
Tamping bars, Friction clamp for. N. A. Johnson. 1,458,764; June 12.
Tank: *See*—
Septic tank.
Tank heater. H. L. Collins. 1,458,572; June 12.
Tank stand. J. L. Castile. 1,458,521; June 21.
Tap. C. W. Bogart. 1,458,614; June 12.
Telephone system. F. M. Slough. 1,458,555; June 12.
Telephone system, Automatic. G. E. Mueller. 1,458,907; June 12.
Testing apparatus. C. R. Hill. 1,458,529; June 12.
Testing device. M. J. Clausen. 1,458,272; June 12.
Testing machine. F. Wille. 1,458,259; June 12.
Textile fabric. J. S. T. F. Boyd. Des. 62,467–9; June 12.
Textile fabric. G. M. Fauser. Des. 62,480; June 12.
Textile fabric. D. Hartgens. Des. 62,485; June 12.
Textile fabric. C. W. Howard. Des. 62,522–8; June 12.
Textile fabric. C. V. Kozlay. Des. 62,529; June 12.
Thermometer, Oven. G. J. Day. 1,458,168; June 12.
Thread cutter. C. H. Taylor. Re15,625; June 12.
Tide motor. J. Testa. 1,458,372; June 12.
Tile-making machine. A. H. Rush. 1,458,198; June 12.
Time calculator. R. N. Gardner. 1,458,649; June 12.
Time-controlled locking mechanism. E. M. Clark. 1,458,325; June 12.
Time recorder, Elapsed-. C. S. Ellis. 1,458,689; June 12.
Timer. J. H. Story. 1,458,252; June 12.
Tire. J. W. Miller. 1,458,662; June 12.
Tire, Armored. J. C. Mire. 1,458,191; June 12.
Tire, Automobile. R. H. Keaton. Des. 62,487; June 12.
Tire fabric, Apparatus for plying up. J. R. Gammeter. 1,458,476; June 12.
Tire, Pneumatic. M. J. C. André. 1,458,458; June 12.
Tire protector and antiskidding device. H. A. Myer. 1,458,238; June 12.
Tire, Resilient. V. L. Buchman. 1,458,267; June 12.
Tire tread. A. M. Elliott. Des. 62,519; June 12.
Tire, Vehicle. H. K. Raymond. 1,458,629; June 12.
Tires, Tread for automobile. R. G. Taylor. Des. 62,510; June 12.
Tissue, Wrapping. C. P. Olson. 1,458,592; July 12.
Toilet case. A. T. Reid. 1,458,777; June 12.
Tool. J. S. Donaldson. 1,458,171; June 12.
Tool holder and tool. G. W. Bufford. 1,458,802; June 12.
Toothbrush and paste holder, Combined. E. R. Erickson. Des. 62,479; June 12.
Toothbrush holder. W. W. Welpley. 1,458,566; June 12.
Torpedo, Railway signal. F. W. Brown and A. R. Marshall. 1,458,745; June 12.
Toy boat. J. R. Clark. Des. 62,518; June 12.
Toy blocks, Method of and apparatus for eliminating sharp edges and corners on. A. Smith. 1,458,733; June 12.
Toy figure. A. F. Carlin. 1,458,683; June 12.
Toy monkey. J. G. Stokes. Des. 62,509; June 12.
Toy or advertising device. H. A. Houghton. 1,458,208; June 12.
Tractor. R. L. Tolson. 1,458,560; June 12.
Track raising and shifting apparatus. J. Forsberg. 1,458,402; June 12.
Traction system, Conductor arrangement of electric. C. E. Fairburn. 1,458,692; June 12.
Traffic-controlling system. A. V. T. Day. 1,458,616; June 12.
Trailer box and tank car. H. Coanda. 1,458,465; June 12.
Train-controlling mechanism. A. E. and M. Snyder. 1,458,448; June 12.
Transformer. R. V. Bingay. 1,458,126; June 12.
Transformer cooler and electric heater. A. H. Waage. 1,458,634; June 12.
Transmission band. V. F. Franck. 1,458,815; June 12.
Transmission, Hydraulic. J. H. and G. A. Burrow. 1,458,390; June 12.

Transmission, Multiple balancing arrangement for multiplex. L. Espenschied. 1,458,225; June 12.
Transmission mechanism, Slippage-governed. C. H. Gill. 1,458,334; June 12.
Transmission, Multiple balancing arrangement for multiplex. H. S. Osborne. 1,458,193; June 12.
Trap: *See*—
Animal trap. Rat trap.
Boll-weevil trap.
Trap. N. M. Rosendahl. 1,458,630; June 12.
Tread unit, Safety-. G. N. Jeppson. 1,458,708; June 12.
Trigger motor. H. O. Russell and L. J. Scheben. 1,458,360; June 12.
Trousers. M. L. Stern. 1,458,632; June 12.
Truck, Elevating. R. M. Lovejoy. 1,458,534; June 12.
Truck, Hand. P. C. Fritz. 1,458,285; June 12.
Trucks, Loading attachment for. H. G. Nilson. 1,458,775; June 12.
T square. W. A. Schenck. 1,458,152; June 12.
Tube-frame bracket. E. H. Ryon. 1,458,312; June 12.
Tubes rich in zinc, Making seamless. W. L. Woodward. 1,458,605; June 12.
Turntable. M. G. Hilpert. 1,458,229; June 12.
Typographic machines, Casting mechanism for. F. W. Letsch. 1,458,650; June 12.
Typewriting machine. E. E. Barney. 1,458,125; June 12.
Typewriting machine. W. D. Camp. 1,458,269; June 12.
Typewriting machine. J. B. Holden. 1,458,133; June 12.
Typewriting machine. A. G. F. Kurowski. 1,458,904; June 12.
Typewriting machine. B. C. Stickney. 1,458,251; June 12.
Undergarment. J. H. Moffat. 1,458,892; June 12.
Undergarment. W. B. Rood. 1,458,547; June 12.
Urinal. G. R. Chase. 1,458,640; June 12.
Vacuum cleaner. G. Clements. Re15,627; June 12.
Vacuum cleaner. W. L. Lindgren. 1,458,714; June 12.
Vacuum cleaner. W. H. Upton. 1,458,602; June 12.
Vacuum cleaning apparatus. J. P. Malone. 1,458,720; June 12.
Vacuum production, System of. R. Suczek. 1,458,737; June 12.
Vacuum-tube base and receptacle. F. H. Shaw. 1,458,153; June 12.
Valve. S. O. Hagen. 1,458,228; June 12.
Valve. K. O. Nelson. 1,458,355; June 12.
Valve, Air-brake. F. E. Harris. 1,458,882; June 12.
Valve, Air-brake-control. T. J. Steinkeller. 1,458,370; June 12.
Valve for angle cocks, By-pass. J. P. Kelly. 1,458,765; June 12.
Valve lifter, Plate-. C. W. Metzgar. 1,458,625; June 12.
Valve, Gate. J. E. Dempsey. 1,458,644; June 12.
Valve, Rotary. H. V. Souders. 1,458,557; June 12.
Valve-spring lifter. C. C. Young. 1,458,374; June 12.
Valve, Tank-outlet. F. C. Fyke and J. E. Hunt. 1,458,816; June 12.
Valve, Thermostatic. J. L. Ferris. 1,458,813; June 12.
Valve tubes, Auxiliary valve for inflating. R. Reynolds. 1,458,438; June 12.
Vanity case. W. G. Kendall. 1,458,886–7; June 12.
Varnish composition. L. Mauerhofer. 1,458,493; June 12.
Vase. F. Carder. Des. 62,517; June 12.
Vehicle body. O. H. Menning. 1,458,352; June 12.
Vehicle direction indicator. F. Koppenhafer. 1,458,711; June 12.
Vehicle fender. W. G. Cox. 1,458,276; June 12.
Vehicle signal. J. S. Graham. 1,458,819; June 12.
Vehicle, Self-loading. G. W. Otterson. 1,458,241; June 12.
Vehicle spring lubricator. J. J. O'Brien. 1,458,590; June 12.
Vehicle top. E. A. Rathbun. 1,458,242; June 12.
Vehicle tops, Bow and bow cover for. R. C. Schemmel. 1,458,781; June 12.
Vehicle wheel. H. N. Atwood. 1,458,379–80; June 12.
Vehicle wheel. T. J. Fiahie. 1,458,175; June 12.
Vehicles, Casing for a signaling device for. W. C. Dierker. Des. 62,478; June 12.
Vehicles, Collapsible running board for motor. J. C. Calhoun. 1,458,519; June 12.
Vehicles, Combined fender and spare-tire holder for. F. V. Rosenbrook. 1,458,727; June 12.
Vehicles, Electrodynamic transmission system for. H. L. Tanner. 1,458,601; June 12.
Vehicles, End shield for motor. W. G. Cox. 1,458,277; June 12.
Vehicles, Recording apparatus for. A. F. Wallbillich. 1,458,451; June 12.
Vehicles, Tread grip for the wheels of motor or tractor. J. Puech. 1,458,437; June 12.
Vehicles, Wheel and tire for road. F. W. Lanchester. 1,458,532; June 12.
Vending machine, Coin-controlled. H. Giles. 1,458,621; June 12.
Vending rack. W. J. Ashton. 1,458,510; June 12.
Vessel, Sectional. P. A. J. M. Constan. 1,458,134; June 12.
Vise, Parallel. J. Ehrenfechter. 1,458,619; June 12.
Volatile matter, Apparatus for extracting. C. Postel. 1,458,357; June 12.
Wall receptacles for receiving deliveries. W. J. Sloan. 1,458,200; June 12.
Warping machine, Stop-motion mechanism for. A. C. Mason. 1,458,189; June 12.
Washing clothes and the like, Device for. B. F. Titus. 1,458,159; June 12.
Washing machine. V. Montalto. 1,458,235; June 12.
Washing machine. E. J. Rapps. 1,458,358; June 12.
Washing machine. W. H. Thompson. 1,458,254; June 12.
Watch bracelet, Combined leather and metal fabric. S. L. Lederer. Des. 62,490–1; June 12.
Water-circulating system. E. T. Curran. 1,458,129; June 12.
Water elevator. H. C. Rath. 1,458,850; June 12.
Water elevator, Compressed-air. V. Betteloni. 1,458,514; June 12.
Watermelon carrier. S. F. Call. 1,458,268; June 12.
Welded rail joint. E. M. T. Ryder. 1,458,362; June 12.
Welding apparatus. M. S. Clawson. 1,458,273; June 12.
Welding-machine attachments, Clamp for. H. W. Kranz and J. Lukes. 1,458,138; June 12.
Welding process. M. S. Clawson. 1,458,274; June 12.
Well swab, Oil-. L. E. Robinson. 1,458,151; June 12.
Wheel: *See*—
Cushion wheel. Vehicle wheel.
Wheel. A. Griesemer. 1,458,759; June 12.
Wheel. J. Wollmann. 1,458,868; June 12.
Wheel for motor vehicles. J. B. Ruatti. 1,458,779; June 12.
Wheel gauge. R. Spangenberg. 1,458,598; June 12.
Wheels, Guide for hoisting. A. H. Neller. 1,458,354; June 12.
Wheels, Mud lug for vehicle. J. M. Jacobs. 1,458,295; June 12.
Winding machines, Starting and stopping mechanism for. E. F. Parks, C. A. Brink, and G. N. Taylor. 1,458,194; June 12.
Winding reel. H. T. Keel. 1,458,420; June 12.
Window screen. J. H. De Smidt. 1,458,617; June 12.
Window-washer platform. J. C. Brewster. 1,458,744; June 12.
Wire clamp. J. F. Schleper. 1,458,247; June 12.
Wire fixture, Electric-. C. Barton. 1,458,263; June 12.
Wire, Insulated electric. H. B. Burley and H. E. Rooney. 1,458,803; June 12.
Wire-marking device. H. E. Shreeve. 1,458,155; June 12.
Woodworking machinery. J. E. Hirst. 1,458,411; June 12.
Work bench, Demountable. E. Teeken. 1,458,738; June 12.
Wrench: *See*—
Headlight wrench.
Wrench. J. H. Fones. 1,458,474; June 12.
Writing machines, adding machines, and the like, Copy carrier for. L. F. Amez-Droz. 1,458,457; June 12.
Yarn, Asbestos. J. A. Heany. 1,458,577; June 12.
Yarn cleaner. A. C. Bergren. 1,458,917; June 12.
Zinc tubing, Making. W. L. Woodward. 1,458,604; June 12.

CLASSIFICATION OF PATENTS

ISSUED JUNE 12, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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35: 1,458,908
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114: 1,458,746
1,458,747
205: 1,458,388
247: 1,458,664
274: 1,458,289
340: 1,458,637
293— 55: 1,458,276
1,458,277
294— 41: 1,458,292
49: 1,458,910
91: 1,458,415
296— 23: 1,458,352
63: 1,458,173
97: 1,458,845
116: 1,458,242
118: 1,458,781
300— 11: 1,458,783
301— 31: 1,458,267
1,458,406
43: 1,458,437
63: 1,458,759
303— 19: 1,458,158
78: 1,458,370
1,458,882
86: 1,458,765
304— 24: 1,458,744
40: 1,458,666

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acorn Watch Case Co. (See Gottlieb, Joseph.)

Alger & Mowry Manufacturing Company, Stockton, Calif. Dressing for motor-vehicle tops and leather and rubber goods. 169,508; June 19; Serial No. 171,606; published Mar. 20, 1923.

American Glue Company, Boston, Mass. Flint paper and cloth, garnet paper and cloth, and emery paper and cloth. 169,485; June 19; Serial No. 174,648; published Mar. 20, 1923.

Armiger Chemical Co., Chicago, Ill. Friction compound in wafer form for application to brake linings, etc. 169,467; June 19; Serial No. 173,618; published Mar. 20, 1923.

Azor Motor Mfg. Co., The, Cleveland, Ohio. Electric motors. 169,479; June 19; Serial No. 174,285; published Mar. 27, 1923.

Baker Paint & Varnish Co., Jersey City, N. J. Varnish stain. 169,484; June 19; Serial No. 174,603; published Mar. 20, 1923.

Barnängens Teckn. Fabrikers A. Bolag, Stockholm, Sweden. Drawing, indelible, marking, printing, etc., inks. 169,452; June 19; Serial No. 172,722; published Mar. 27, 1923.

Barnängens Teckn. Fabrikers A. B., Stockholm, Sweden. Drawing, indelible, marking, printing, etc., inks. 169,453; June 19; Serial No. 172,720; published Mar. 27, 1923.

Bemis Bro. Bag Co., St. Louis, Mo. Burlap bags. 169,435; June 19; Serial No. 173,555; published Mar. 20, 1923.

Billard, William W., doing business as Black Bear Coal Co., Baltimore, Md. Coal. 169,566; June 19.

Black Bear Coal Co. (See Billard, William W.)

Borsum Bros., New York, N. Y., and Jersey City, N. J. Metal polish. 169,491; June 19; Serial No. 137,512; published Sept. 5, 1922.

Buffalo Box Factory, Buffalo, N. Y. Paper and fiber boxes. 169,570; June 19.

Burt, F. N., Company Limited, Buffalo, N. Y. Paper boxes. 169,502–3; June 19; Serial No. 159,494–5; published Mar. 20, 1923.

Butter-Nut Candy Company, Inc., Pittsburgh, Pa. Candies. 169,549; June 19.

Byrnes-Linn Products Co., Chicago, Ill. Polish for automobiles and painted, varnished, and lacquered surfaces. 169,445; June 19; Serial No. 172,860; published Mar. 20, 1923.

Central Flatiron Mfg. Co., Johnson City, N. Y. Electrically heated hot plates and flatirons. 169,468; June 19; Serial No. 173,622; published Mar. 27, 1923.

Childs, Charles M., & Co. Inc., Brooklyn, N. Y. Ready-mixed paints. 169,443; June 19; Serial No. 173,031; published Mar. 20, 1923.

Circle Music Publishing Company, The, Cincinnati, Ohio. Sheet music. 169,447; June 19; Serial No. 172,827; published Mar. 20, 1923.

Clapp, Edwin, & Son, Inc., East Weymouth, Mass. Boots and shoes. 169,522; June 19; Serial No. 172,639; published Mar. 27, 1923.

Clarendon M'f'g Company, New York, N. Y. Silk, linen, cotton, and jute piece goods and piece goods composed of combinations and mixtures. 169,542; June 19; Serial No. 170,054; published Nov. 7, 1922.

Cohagan Patent Piston Ring Manufacturing Company, The, Denver, Colo. Piston rings. 169,504; June 19; Serial No. 160,046; published Oct. 10, 1922.

Cohen & Kraus, New York, N. Y. Ribbons and hatbands in piece and bolts. 169,541; June 19; Serial No. 169,892; published Mar. 20, 1923.

Cohen, Nathan M., New York, N. Y. Handkerchiefs. 169,449; June 19; Serial No. 172,796; published Mar. 20, 1923.

Colgate & Company, Jersey City, N. J. Soap. 169,480; June 19; Serial No. 174,292; published Mar. 20, 1923.

Colonial Lamp & Fixture Works, Chicago, Ill. Electric-lighting fixtures. 169,440–1; June 19; Serial Nos. 173,176–7; published Mar. 27, 1923.

Davis-Pope Company Incorporated, Norwalk, Conn. Men's and women's hats. 169,519; June 19; Serial No. 172,585; published Mar. 27, 1923.

Dayton Steel Racquet Company, The, Dayton, Ohio. Lawn-tennis rackets, court-tennis rackets, etc. 169,567; June 19.

Dewey and Almy Chemical Company, Cambridge, Mass. Cements for sealing tin cans, glass or metal containers, and bottle caps, etc. 169,515; June 19; Serial No. 172,033; published Mar. 20, 1923.

Dorsey, Arthur, Brooklyn, N. Y. Clocks. 169,560; June 19.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Clocks. 169,543; June 19; Serial No. 170,285; published March 27, 1923.

Dyer, W. J., & Bro., St. Paul and Minneapolis, Minn. Guitars, mandolins, banjos, and zithers. 23,193; renewed June 13, 1923.

Eaton, Inez N., Gorham, Mass. Preparation for removing grease spots from clothing, carpets, and coarse goods, washing the head, cleaning silverware, and killing bedbugs. 169,528; June 19; Serial No. 165,359; published Dec. 26, 1922.

Eberson-Lindsley Paint Company, St. Louis, Mo. Ready-mixed paint. 169,556; June 19.

Elliott Bay Mill Company, Seattle, Wash. Ply wood which is glued up of three or more thicknesses of thin veneer. 169,546; June 19.

Emerson Drug Co., Baltimore, Md. Beverage sold as a soft drink. 169,553; June 19.

Engelhard, A., & Sons Co., Louisville, Ky. Coffee. 169,539; June 19; Serial No. 169,289; published Feb. 27, 1923.

Enterprise Paint Mfg. Co., Chicago, Ill. Ready-mixed and paste paints, varnishes, paint enamels, wood fillers, etc. 169,451; June 19; Serial No. 172,735; published Mar. 20, 1923.

Ever-Ready Paste Packing Co., Pittsburg, Kans. Paste packing for steam pipes. 169,552; June 19.

Fallkill Radio & Electrical Co., Poughkeepsie, N. Y. Radio parts. 169,444; June 19; Serial No. 172,983; published Mar. 27, 1923.

Florence Manufacturing Company, Florence, Mass.; New York, N. Y.; and Chicago, Ill. Toothbrushes. 23,179; renewed June 6, 1923.

Forsch-Summers Co., The. (See Summers, Charles G., & Co.)

Frost, Jack, Sales Agency, Chicago, Ill. Ice-cream cones. 169,530; June 19; Serial No. 166,299; published Mar. 20, 1923.

Gargoyle Textile Corporation, New York, N. Y. Piece goods of cotton, silk, or wool, etc. 169,489; June 19; Serial No. 118,507; published Nov. 4, 1919.

George Close Co., The, Cambridge, Mass. Candy. 169,547; June 19.

George & Co., Leipzig, Germany. Artistic prints, color prints, picture post cards. 169,492; June 19; Serial No. 137,521; published Jan. 3, 1922.

Gerace, Joseph, Lebanon, Pa. Ice-cream cones. 169,564; June 19.

Gorton-Pew Fisheries Company, Gloucester, Mass. Canned potatoes and salt fish combined for fish cakes. 169,562; June 19.

Gottlieb, Joseph, doing business as Acorn Watch Case Co., New York, N. Y. Watches and watchcases. 169,497; June 19; Serial No. 154,269; published Mar. 27, 1923.

Greenberg-Kantor Company, Kansas City, Mo. Cotton pants, khaki pants, work shirts, and overalls. 169,535; June 19; Serial No. 168,033; published Jan. 30, 1923.

Grossmith, J., & Son, Limited, London, England. Perfumed soap. 169,545; June 19; Serial No. 170,978; published Mar. 20, 1923.

Harley, Erskine P., Oklahoma, Okla. Fabricated cushions having air-circulation space. 169,565; June 19.

Hood Rubber Company, Watertown, Mass. Batteries and parts thereof. 169,483; June 19; Serial No. 174,577; published Mar. 27, 1923.

Hooven & Allison Company, Xenia, Ohio. Sisal rope. 169,486; June 19; Serial No. 117,596; published Dec. 30, 1919.

Hooven & Allison Company, Xenia, Ohio. New Zealand hemp rope. 169,487; June 19; Serial No. 117,598; published Dec. 30, 1919.

Hoover Company, The. (See Hoover Suction Sweeper Company.)

Hoover Suction Sweeper Company, The, assignor to The Hoover Company, North Canton, Ohio. Electric suction sweepers. 169,520; June 19; Serial No. 172,594; published Mar. 27, 1923.

Hurst, Adolphe, & Company, Inc., New York, N. Y. Shellac, shellac gums, varnishes, etc. 169,526; June 19; Serial No. 161,777; published Mar. 20, 1923.

Hygienic Products Company, The, Canton, Ohio. Cleaning powder for water-closet bowls. 169,498; June 19; Serial No. 155,436; published Feb. 28, 1922.

Iner-Guard Tube & Rubber Company, St. Louis, Mo. Inner tubes for pneumatic tires. 169,563; June 19.

Italian Book Co., New York, N. Y. Music rolls for self-playing musical instruments. 169,510; June 19; Serial No. 171,922; published Mar. 27, 1923.

Jansen, F. W., Clock Company, Chicago, Ill. Alarm clocks. 169,500; June 19; Serial No. 157,615; published Mar. 27, 1923.

Jensen, Frank H., Boston, Mass. Arch supporters, foot bands, and chiropodist bandages. 169,569; June 19.

Johns-Pratt Company, The, Hartford, Conn. Electrical apparatus, machines, and supplies. 169,454; June 19; Serial No. 172,680; published Mar. 27, 1923.

Jordan Marsh Company, Boston, Mass. Hot-water bottles and bags and syringes. 169,476; June 19; Serial No. 173,889; published Mar. 20, 1923.
Jovis Watch Co., New York, N. Y. Watches. 169,507; June 19; Serial No. 171,498; published Mar. 27, 1923.
Karlson, Gordonville & Johnson, Incorporated, New York, N. Y. Yearly almanacs. 169,540; June 19; Serial No. 169,762; published Mar. 20, 1923.
Kentucky Fruit Laxative Co. Inc., St. Louis, Mo. Laxative medicine. 169,571; June 19.
Keuffel & Esser Co., Hoboken, N. J., and New York, N. Y. Proportional dividers. 23,640; renewed Sept. 19, 1923.
King, Leslie I., Columbus, Ohio. Toy banks. 169,557–8; June 19.
Krebs Pigment & Chemical Company, The, Newport, Del. Paint pigments. 169,448; June 19; Serial No. 172,840; published Mar. 27, 1923.
Lady Janis Perfume Co., Chicago, Ill. Soap. 169,469; June 19; Serial No. 173,653; published Mar. 20, 1923.
Lamborn & Company, New York, N. Y. Toilet soaps. 169,481; June 19; Serial No. 174,397; published Mar. 20, 1923.
Liko Co., The. (See Siegel, Morris.)
Lummis & Co., Philadelphia, Pa. Salted peanuts, peanut candies, and peanut butter. 169,499; June 19; Serial No. 156,230; published June 13, 1923.
Lyon & Healy, Chicago, Ill. Musical instruments. 169,493; June 19; Serial No. 148,605; published Mar. 27, 1923.
McLeod, John, (Bradford District), Haverhill, Mass. Paint in paste form. 169,505; June 19; Serial No. 160,360; published Mar. 20, 1923.
Manchester Coal Co., The, Manchester, Ala. Coal. 169,568; June 19.
Mappin & Webb Limited, Sheffield and London, England. Table and household ware. 169,555; June 19.
Mappin & Webb Limited, Sheffield and London, England. Table and household ware. 169,561; June 19.
Marshall-Wells Company, Duluth, Minn. Electric laundry washing machines. 169,576; June 19.
Mason, John, doing business as Mason Mfg. Co., Sausalito and San Francisco, Calif. Substitute for turpentine. 169,544; June 19; Serial No. 170,395; published Mar. 20, 1923.
Mason Mfg. Co. (See Mason, John.)
Mewshaw, James C., doing business as J. C. M. Accelerator Company, Baltimore, Md. Emergency gasoline and oil tanks. 169,477; June 19; Serial No. 174,021; published Feb. 27, 1923.
Minot, Hooper & Co., New York, N. Y. Cotton piece goods. 169,455; June 19; Serial No. 175,204; published Mar. 20, 1923.
Mohawk Shirt Co., New York, N. Y. Boys' and men's work shirts. 169,533; June 19; Serial No. 166,893; published Feb. 20, 1923.
Motor Player Corporation, Chicago, Ill. Motors for player pianos. 169,501; June 19; Serial No. 158,630; published Mar. 27, 1923.
Mouquin Rt. & Wine Co., Inc., New York, N. Y. Beverage sold as a soft drink. 169,559; June 19.
Naturaline Corset Company, Boston, Mass. Brassières. 169,516; June 19; Serial No. 172,116; published Mar. 27, 1923.
New Process Company, The, Warren, Pa. Overcoats and ulsters. 169,573; June 19.
New Process Company, The, Warren, Pa. Raincoats. 169,574; June 19.
Nitrogen Electric Company, Newark, N. J. Incandescent lamp. 169,466; June 19; Serial No. 173,577; published Mar. 27, 1923.
North Bros. & Co., Baltimore, Md. Men's and boys' dress and negligee shirts. 169,572; June 19.
North Packing and Provision Company, Boston, Mass. Lard. 23,258; renewed June 27, 1923.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Impression compound. 169,511; June 19; Serial No. 171,946; published Mar. 20, 1923.
Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. 169,456; June 19; Serial No. 175,154; published Mar. 20, 1923.
Paskocil, Catherine, Cleveland, Ohio. Metal cleaning and polishing powder. 169,437; June 19; Serial No. 173,296; published Mar. 20, 1923.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's garters. 169,532; June 19; Serial No. 166,710; published Mar. 27, 1923.
Philadelphia Carpet Company, Philadelphia, Pa. Wilton carpets. 169,531; June 19; Serial No. 166,604; published Mar. 20, 1923.
Presato Leather Products Corporation, Brooklyn and New York, N. Y. Spectacle cases. 169,473; June 19; Serial No. 173,720; published Mar. 20, 1923.
Progressive Weaving Co., Camden, N. J. Padding or covering for flatwork ironers. 169,548; June 19.
Radio Frequency Laboratories, Inc., Boonton, N. J. Radio equipment. 169,478; June 19; Serial No. 174,260; published Mar. 27, 1923.
Remiller Co., The, New York, N. Y. Soap. 169,470; June 19; Serial No. 173,673; published Mar. 20, 1923.
Richards & Brennan Co., Randolph, Mass. Shoes, rubbers, overshoes, etc. 169,534; June 19; Serial No. 167,011; published Mar. 27, 1923.
Richardson, O. W., & Co., Chicago, Ill. Phonographs and parts thereof. 169,506; June 19; Serial No. 171,038; published Mar. 27, 1923.
Rieser Company Inc., The. (See Rieser, N., Company Inc.)
Rieser, N., Company Inc., The (now by change of name The Rieser Company Inc.), New York, N. Y. Soap. 169,523–5; June 19; Serial Nos. 172,654–6; published Mar. 20, 1923.
Samson Cordage Works, Boston, Mass. Braided sash cord. 23,509; renewed Aug. 15, 1923.
San Antonio Bible Institute, Inc., San Antonio, Tex. Monthly periodical. 169,439; June 19; Serial No. 173,215; published Mar. 20, 1923.
Semet-Solvay Company, Solvay, N. Y. Concrete hardener and accelerator. 169,438; June 19; Serial No. 173,250; published Mar. 27, 1923.
Shaw, Welsh & Company, Galesburg, Ill. Metal plates to hold the heat under the bottoms of cooking vessels and utensils. 169,551; June 19.
Sheet Lathing Corporation, assignor to Plastuc Mfg. Corporation, Syracuse, N. Y. Sheet lathing. 169,512; June 19; Serial No. 171,962; published Mar. 27, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, stains, and fillers. 169,471–2; June 19; Serial Nos. 173,680–1; published Mar. 20, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, stains, and fillers. 169,474; June 19; Serial No. 173,789; published Mar. 20, 1923.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, stains, and fillers. 169,475; June 19; Serial No. 173,787; published Mar. 20, 1923.
Shirley Manufacturing Co., Shreveport, La. Finger rings and ring mountings. 169,509; June 19; Serial No. 171,820; published Mar. 27, 1923.
Siegel, Morris, doing business as The Liko Co., Los Angeles, Calif. Stove polish. 169,513; June 19; Serial No. 171,965; published Mar. 20, 1923.
Smack Company, The. (See Tropical Fruit Juice Company.)
Smith, H. Bridgman, Company, Brooklyn, N. Y. Cloth and bolt boards, fabric winders, etc. 169,538; June 19; Serial No. 169,277; published Mar. 20, 1923.
Spectro-Chrome Institute Incorporated, Camden, N. J., and Philadelphia, Pa. Apparatus for the treatment of diseases by spectrochrome therapy. 169,554; June 19.
Spicky Polish Corporation, San Francisco, Calif. Aluminum and metal polish. 169,482; June 19; Serial No. 174,539; published Mar. 20, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 169,459–60; June 19; Serial No. 174,939–40; published Mar. 20, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 169,461–2; June 19; Serial Nos. 174,936–7; published Mar. 20, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 169,463; June 19; Serial No. 174,934; published Mar. 20, 1923.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 169,464; June 19; Serial No. 174,931; published Mar. 20, 1923.
Stanton, Clyde B., Walla Walla, Wash. Carryall or bag. 169,527; June 19; Serial No. 163,295; published Mar. 20, 1923.
Stevens Brothers and Company, Atlanta, Ga. Fire brick. 169,465; June 19; Serial No. 174,706; published Mar. 27, 1923.
Sturm & Sebelnberg, New York, N. Y. Garters and arm bands. 169,494; June 19; Serial No. 148,822; published Mar. 27, 1923.
Sullivan Company, The, Memphis, Tenn. Composition for use in hardening cement. 169,436; June 19; Serial No. 173,305; published Mar. 27, 1923.
Summers, Charles G., & Co., Inc., Baltimore, Md., assignor to The Torsch-Summers Co. Canned fruits and vegetables. 169,488; June 19; Serial No. 118,451; published Nov. 2, 1920.
Taunton Rubber Company, Taunton, Mass. Rubber heels. 169,514; June 19; Serial No. 171,969; published Mar. 27, 1923.
Taylor and Atkinson, Washington, D. C., assignor to The Wells Process Company, Cleveland, Ohio. Soap. 169,490; June 19; Serial No. 124,556; published May 9, 1922.
Texas Company, The, Houston, Tex., and New York, N. Y. Lubricating oils. 169,537; June 19; Serial No. 169,143; published Mar. 20, 1923.
Tin Decorating Company of Baltimore, The, Baltimore, Md. Boxes or receptacles of various shapes and sizes. 169,521; June 19; Serial No. 172,619; published Mar. 20, 1923.
Towner, Orrin W., doing business as Two Laboratories, Kansas City, Mo. Radiodetectors of the Crystal type. 169,458; June 19; Serial No. 174,947; published Mar. 27, 1923.
Tropical Fruit Juice Company (now by change of name The Smack Company), Chicago, Ill. Nonalcoholic, maltless beverages and sirups for making same. 169,496; June 19; Serial No. 153,058; published May 9, 1922.

True Tone Radio Mfg. Co. (Not Inc.), Chicago, Ill. Radiotelephone, wireless telegraph and telephone receivers. 169,575; June 19.
Two Laboratories. (See Towner, Orrin W.)
U. S. Oil & Supply Co., Providence, R. I. Lubricating greases. 169,495; June 19; Serial No. 148,904; published Mar. 20, 1923.
Uhl, Charles J., assignor to Charles J. Uhl, Chicago, Ill. Ointment or jelly for external use. 23,670; renewed Oct. 3, 1923.
Underwood, William, Company, Boston, Mass. Potatoes and salt fish combined as fish cakes. 169,550; June 19.
United Electrical Manufacturing Co., Adrian, Mich. Electrical motor horns. 169,450; June 19; Serial No. 172,787; published Mar. 27, 1923.
United Paint-Up Stores, Inc., Reading, Pa. Paste and ready-mixed paints, varnishes, stains, and enamel paints. 169,517; June 19; Serial No. 172,302; published Mar. 20, 1923.
Universal Engineering Company, Maywood, Ill. Electric light and power plant units for farms, country homes, stores, etc. 169,448; June 19; Serial No. 172,810; published Mar. 27, 1923.
Utensils Company, The, Fort Wayne, Ind. Laundry ironing machines. 169,529; June 19; Serial No. 165,612; published Mar. 27, 1923.
Virginia Cotton Mills, Swepsonville, N. C. Cotton goods in the piece. 169,457; June 19; Serial No. 175,043; published Mar. 20, 1923.
Walker Publishing Co., Aurora and Marionville, Mo. Name or title of a weekly newspaper. 169,442; June 19; Serial No. 173,159; published Mar. 20, 1923.
Wells Process Company, The. (See Taylor and Atkinson.)
Whitman & Keith Co., Brockton, Mass. Boots and shoes. 169,518; June 19; Serial No. 172,311; published Mar. 27, 1923.
Williamsport Leather Goods Company, Williamsport, Pa. Gun and rifle cases, revolver and pistol holders, and belts. 169,536; June 19; Serial No. 168,396; published Mar. 20, 1923.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Allied Factories Corporation, Kansas City, Mo. Household electrical devices. 177,118; June 19.
Alpha Game & Toy Company, Inc., New York, N. Y. Educational puzzle game. 174,275; June 19.
American Character Doll Co., Inc., New York, N. Y. Dolls. 179,130; June 19.
American Chicle Company, Long Island City, N. Y. Chewing gum. 175,834; June 19.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Mouth harmonica. 172,816; June 19.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper and mailing envelopes. 179,701; June 19.
Arrow Knitting Company. (See Cohen, Jacob H.)
Artsilk Knitting Mills, New York, N. Y. Broad silk in the piece. 169,743; June 19.
Asbestos, Limited, New York, N. Y. Paints. 177,262; June 19.
Askegaard, E. D., Moorhead, Minn. Potatoes in their natural state. 175,911; June 19.
Atlas Sweater Mills, Inc., The, New York, N. Y. Knitted sweaters, scarfs, ties. 168,506; June 19.
Auerlicht Gesellschaft m. b. H. Kommanditgesellschaft, Berlin, Germany. Electrical household appliances. 177,538; June 19.
Bailey & Company, Inc., Atlanta, Ga. Piston rings. 179,131; June 19.
Baker Brush Co., Inc., New York, N. Y. Paintbrushes 178,490; June 19.
Baker & Co., Inc., Newark, N. J. Dental band material. 178,949; June 19.
Baker & Co., Inc., Newark, N. J. Dental metal. 178,950–1; June 19.
Bancroft, Joseph, & Sons Company, Wilmington, Del. Cotton piece goods. 176,440; June 19.
Battle Creek Food Company, The, Battle Creek, Mich. Cereal breakfast food. 175,701; June 19.
Battle Creek Food Company, The, Battle Creek, Mich. Vegetable flavors for food-flavoring purposes. 175,704; June 19.
Battle Creek Food Company, The, Battle Creek, Mich. Nut cereal food. 175,838; June 19.
Beatrice Creamery Company, Chicago, Ill., and Topeka, Kans. Milk and cream. 175,459; June 19.
Beebe Laboratories, Incorporated, doing business as Ward and Pierre, St. Paul, Minn. Face creams. 172,724; June 19.
Bemis Bro. Bag Company, St. Louis, Mo. Cotton, burlap, and paper bags. 145,544; June 19.
Benson, Benj. D., & Sons, Inc., New York, N. Y. Labeling clips for use with loose-leaf binders. 152,536; June 19.
Benzo-Gas Motor Fuel Company, Kansas City, Mo. Liquid motor fuel. 179,086; June 19.
Berger, Elmer C. A., doing business as Berger & Company, Los Angeles, Calif. Rear-view mirrors for automobiles. 177,646; June 19.
Berman, Charles M., New York, N. Y. Powder puffs. 174,230; June 19.
Bernard, Albert, New York, N. Y. Candies. 176,155–6; June 19.
Berthorn Chemical Co., New York, N. Y. Chemical preparation recommended for relief of acids and gases in stomach and intestines. 176,320; June 19.
Bestmake Boys Clothing Co., Inc., New York, N. Y. Suits and topcoats. 171,199; June 19.
Bird, Mellen T., doing business as T. Bird & Co., Boston, Mass. Correspondence paper, cards, envelopes, etc. 179,846; June 19.
Bluebell Malt Co. (See Kats, Sigmund.)
Blue Bird Inc. Perfumers, New York, N. Y. Ointment for acne and other skin diseases. 170,804; June 19.
Borgfeldt, George, & Co., New York, N. Y. Hair nets. 177,120; June 19.
Bouton, Emile, Paris, France. Hat linings. 145,430; June 19.
Bovee Novelty Company, Chicago, Ill. Vanity kits and cases. 178,326; June 19.
Brillio Chemical Company. (See La Loue, Wilfred.)
Brine, James W., Company, Boston, Mass. Football pants and jackets, knit worsted union suits, football shoes, etc. 172,579; June 19.
Britex Chemical Products Limited, London, England. Disinfectants. 176,397; June 19.
Brooks Chemical Co., New Cumberland, W. Va. Salve for treating sore throat, croup, asthma, etc. 176,599; June 19.
Buddy-Bouncer Company, Dallas, Tex. Seesaw toy. 179,395; June 19.
Buddy-Products Co., Chicago, Ill. Furniture polish. 178,217; June 19.
Buffalo Paper & Post Card Co. (See Hooz, Joseph.)
Burden, Everett, doing business as Burden Manufacturing Company, East Liverpool, Ohio. Fruit sirups for beverages sold as soft drinks. 172,507; June 19.
Burnham, Alvie, doing business as Burnham Packing Company, Clay City, Ind. Canned pimientos. 175,064; June 19.
Burns, Frederick M., Mount Vernon, N. Y. Umbrellas and parasols. 177,956; June 19.
Calcium Products, Incorporated, Chicago, Ill. Antiseptic, astringent, and deodorizing lotion. 176,322; June 19.
Canton Forge & Axle Company, Canton, Ohio. Steel forgings, rail anchors, rail-anchor springs, and railroad switch clamps. 177,215; June 19.
Cardinell, John D., doing business as Cardinell Vellum Mfg. Co., Montclair, N. J. Tracing paper. 179,712–13; June 19.
Carter Dry Goods Company, Louisville, Ky. Percales in the piece. 169,280; June 19.
Cassoff, Louis F., doing business as Central Shellac Works, Brooklyn, N. J. Specially-prepared shellac products. 175,343; June 19.
Cato Oil and Grease Co., Oklahoma, Okla. Lubricating oils and greases. 179,293–4; June 19.
Central Indiana Coal Co., Indianapolis, Ind. Coal. 179,516; June 19.
Central Shellac Works. (See Cassoff, Louis F.)
Chocolate Products Company, Wilmington, Del., and Baltimore, Md. Candy. 175,711; June 19.
Church Bulletin, Inc., The, New York, N. Y. Church bulletin. 158,178; June 19.
Cleveland Metal Products Company, The, Cleveland, Ohio. Burner drums. 176,951; June 19.
Clifford, Joseph A., Philadelphia, Pa. Cotton, wool, and silk hosiery. 176,013; June 19.
Cohen, Jacob H., doing business as Arrow Knitting Company, New York, N. Y. Sweaters and sport coats. 175,851; June 19.
Colorado Milling & Elevator Co., also doing business as The Mesa Flour Mills, Denver and Grand Junction, Colo. Wheat flour. 175,470; June 19.
Colter & Bernie, New York, N. Y. Hosiery and underwear of knitted and textile fabric. 171,152; June 19.
Concordia Silk Hosiery Company, Philadelphia, Pa. Hosiery. 172,523; June 19.
Continental Auto Parts Company, Columbus, Ind. Spring shackle and other bolts, nuts, and metal washers. 170,475; June 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Continental-Caoutchouc und Gutta-Percha-Compaignie, Hanover, Germany. Solid and pneumatic tires, inner tubes, tire valves and treads, etc. 172,977; June 19.
Cook, Jerome I., doing business as Research Advertising Bureau, St. Louis, Mo. Blank-form books. 176,165; June 19.
Corenson, Abe, Los Angeles, Calif. Combination head dress and waistband for dolls. 179,840; June 19.
Cosin, Joseph J., doing business as The Cosin Co., New York, N. Y. Powder puffs. 177,167; June 19.
Crown Brewing Co., The, Cincinnati, Ohio. Malt or cereal beverage and malt sirup for making same. 179,032; June 19.
Cutino Company, The, Kansas City, Mo. Toilet articles—namely, puff boxes, hair receivers, and jewel boxes, 173,407; June 19.
Cutino Company, The, Kansas City, Mo. Toilet mirrors and ornamental picture frames. 178,223; June 19.
Cutino Company, The, Kansas City, Mo. Hairbrushes. 178,230; June 19.
Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. 175,826; June 19.
Davidson, David, Providence, R. I. Pictures. 148,932; June 19.
Deemer & Company, Wilkes-Barre, Pa. Writing ink, typewriter ribbons, carbon paper, etc. 171,206; June 19.
De Garcy Co., Inc., New York, N. Y. Breakfast coats and like negligees. 181,821; June 19.
Dennison Manufacturing Co., Framingham, Mass. Crêpe paper. 178,093; June 19.
Dentrol Sales Corporation, Wilmington, Del., and New York, N. Y. Fabric rolls impregnated with a dentifrice and holders therefor. 175,009; June 19.
Dixie Oil & Grease Company, Atlanta, Ga. Lubricating oils and greases. 164,659; June 19.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Lacquers and enamels. 162,384; June 19.
Durbrow & Hearne, New York, N. Y. Cutting machines for use in the manufacture of hats. 174,822; June 19.
East Coast Trading Co. Baltimore, Md. Shell and grit. 173,075; June 19.
Eberhard Faber Pencil Company, Brooklyn, N. Y. Lead pencils. 177,835; June 19.
Ely & Walker Dry Goods Company, doing business as Lincoln Knit Goods Mills, St. Louis, Mo. Sweaters. 177,284; June 19.
Empire Carpet Co., New York, N. Y. Floor covering. 179,092; June 19.
Erie Steel Construction Company, Erie, Pa. Holding and measuring apparatus for stone, gravel, etc. 171,308; June 19.
Etna Radio Co. Inc., New York, N. Y. Loud-speaking telephones, telephone receivers, transmitters, plugs, jacks, etc. 177,218; June 19.
Evans, Mrs. C. H., Wichita Falls, Tex. Salad dressing. 174,430; June 19.
Excella Pattern Company, New York, N. Y. Dress patterns. 177,660; June 19.
Excella Pattern Company, New York, N. Y. Periodicals. 177,661; June 19.
Excelo Manufacturing Company. (See Head, Hamilton D.)
Fabys, Joseph, & Company, New York, N. Y. Watch-cases. 177,597; June 19.
Foley & Company, Chicago, Ill. Talcum powder. 176,260; June 16.
Frank, A. B., Company, San Antonio, Tex. Hosiery and sweaters, scarfs, caps, bootees, and knit sets. 170,634; June 19.
Freund, Henry, Houston, Tex. Power whistles. 177,289; June 19.
Gerson & Breyer, San Francisco, Calif. Hosiery. 176,174; June 19.
Globe Wire Co., Sharpsburg, Pa. Steel rods suitable for the making of taps and small tools. 174,773; June 19.
Golden Nugget Sweets, San Francisco, Calif. Fudge. 137,927; June 19.
Graham, Edward A., doing business as Alfred Graham & Co., London, England. Talking machine and parts thereof. 176,964; June 19.
Granger Mineral Co., Camas, Wash. Medicinal preparation for internal use in the treatment of chronic disorders of the stomach, kidneys, liver, etc. 175,014; June 19.
Greenwald, Friedman & Co., Inc., New York, N. Y. Tailor-made dresses. 177,164; June 19.
Gries, Joseph M., Battle Mountain, Nev. Ice cream. 174,832; June 19.
Grip Bow Tie Company, Omaha, Nebr. Neckties. 173,353; June 19.
Grosner, Gerald D., doing business as Grosner's, Washington, D. C. Men's dress and negligee shirts, night-shirts, and pyjamas. 173,419; June 19.
Hall Baking Co., Buffalo, N. Y. Bread. 175,787; June 19.
Head, Hamilton D., doing business as Excelo Manufacturing Company, Texarkana, Tex. Polish for furniture and varnished surfaces. 173,705; June 19.
Henle, Walter, doing business as Blackhawk Extract Company, Davenport, Iowa. Malt sirup. 178,248; June 19.
Herbrand Company, The, Fremont, Ohio. Wrenches, pliers, hammers, etc. 179,729; June 19.
Holbrook, W. H., Company, Boston, Mass. All-wool textile piece goods. 177,489; June 19.
Hopkins, Nevil M., New York, N. Y. Dentifrices. 174,207; June 19.
Hooker, Grace B., East Providence, R. I. Candy. 174,778; June 19.
Hoos, Joseph, doing business as Buffalo Paper & Post Card Co., Philadelphia, Pa. Cover and writing paper, envelopes, and wrapping paper. 179,868; June 19.
Howdy Company, The, St. Louis, Mo. Grape-flavored concentrate. 180,183; June 19.
Huber, Rudolfo, Nashville, Tenn. Automobile lock. 160,287; June 19.
Ideal Coated Paper Company, assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper. 130,477; June 19.
Indianapolis Abattoir Company, Indianapolis, Ind. Hams, bacon, and sausage. 174,837; June 19.
Irwin Auger Bit Company, The, Wilmington, Ohio. Bits and augers. 179,098–103; June 19.
Johnson, W. E., doing business as Mrs. W. E. Johnson, Great Falls, Mont. Salad dressing. 158,188; June 19.
Joy Paper Products Co. (See Mayer Coating Machines Co.)
Kane, Thomas B., doing business as Philadelphia Bottling Co., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making the same. 179,046; June 19.
Katz, Sigmund, doing business as Bluebell Malt Co., New York, N. Y. Pure malt extracts. 172,047; June 19.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants comprising oils and greases. 178,738; June 19.
King, Frank O., Chicago, Ill. Toy dogs. 177,229; June 19.
Kobayashi, H., & Co., Inc., New York, N. Y. Broad silks and silk and cotton goods in the piece. 170,769; June 19.
Konroe Merchants. (See Robert, Samuel.)
Krippendorf-Tuttle White Cliffs Products Co., The, Cincinnati, Ohio. Fertilizers. 177,744; June 19.
La Lone, Wilfred, doing business as Brillio Chemical Company. Polish and cleaner for automobiles, phonographs, hardwood floors, furniture, etc. 178,615; June 19.
Laux, John, doing business as Wilsonville Roller Mills, Wilsonville, Nebr. Wheat flour. 175,501; June 19.
Liberty Produce Company. (See Maeda, Y.)
Lilly, Eli, & Company, Indianapolis, Ind. Medicinal ointment. 176,559; June 19.
Lincoln Knit Goods Mills. (See Ely & Walker Dry Goods Company.)
Lindsay Co-Operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 175,609; June 19.
Link, Anton, Chicago, Ill. Combination mop and duster. 177,395; June 19.
Little Giant Company, Mankato, Minn. Road-building machinery, metal-working equipment, etc. 159,210; June 19.
Little Giant Tow Line Co. (See Ursone, Joseph.)
Lubbers and Bell Manufacturing Company, Clinton, Iowa. Game. 178,753; June 19.
Lubi-Kool Company, The, Casper, Wyo. Appliance for lubricating and cooling internal-combustion engines. 179,156; June 19.
Lyons, Langston L., doing business as Yo! Mammy's Milk Co., St. Louis, Mo. Evaporated milk. 175,668; June 19.
McGuire, William A., Cliffside, N. J. Liniments. 175,365; June 19.
McLaurin-Jones Co. (See Ideal Coated Paper Company, assignor.)
McNulty, Joseph A., New York, N. Y. Red oxides. 177,684; June 19.
Macdonald, Helen M., Vancouver, British Columbia, Canada. Herbal remedy for expectant mothers. 157,492; June 19.
Maeda, Y., doing business as Liberty Produce Company, Livingston, Calif. Deciduous fruits and grapes in their natural state. 158,782; June 19.
Mah-Jongg Sales Company of America, San Francisco, Calif. Dolls. 179,614; June 19.
Manchester Handle & Turning Company. (See Shurtz, Thomas M.)
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Machinery belting, hose, and packing. 160,825; June 19.
Maple Producer's Co-Operative Association, Inc., Syracuse, N. Y. Maple sirup and sugar. 175,432; June 19.
Marshall-Wells Company, Duluth, Minn. Pack sacks, saddles, horse collars, harness, etc. 178,533; June 19.
Martoccio, F. A., Macaroni Co., Minneapolis, Minn. Macaroni. 175,258; June 19.
Mayer Coating Machines Co. Inc., doing business as Joy Paper Products Co., Rochester, N. Y. Paper cups. 169,028; June 19.
Meridian Grain & Elevator Company. (See Wilson, John M.)

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Merrell-Soule Company, Syracuse, N. Y. Powdered milk. 174,146; June 19.
Merrick and Rice, Kendal, Fla. Fresh grapefruit. 154,317; June 19.
Merritt, George W., Company, Inc., Norfolk, Va. Floral antiseptic hair tonic. 176,748; June 19.
Merritt, George W., Company, Inc., Norfolk, Va. Antiseptic hair grower. 176,749; June 19.
Mesa Flour Mills, The. (See Colorado Milling & Elevator Co.)
Mesquita & Lange, New York, N. Y. Spun silk. 174,665; June 19.
New Jersey Zinc Company, The, Newark and Franklin, N. J. Paste for paint purposes. 178,402; June 19.
Milwaukee Malting & Grain Co., Milwaukee, Wis. Concentrated malt sirup and extract. 147,303; June 19.
Morrison, Alexander, & Company, Incorporated, Newark, N. J. Steam boilers, coal, coke, gas, and oil heated furnaces, gas heaters, etc. 160,456; June 19.
Mouquin Restaurant and Wine Company, Limited, The, New York, N. Y. Olive oil, canned fruits and vegetables. 176,687; June 19.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Food-flavoring extracts and coffee. 175,805; June 19.
National Record Exchange Company, Iowa City, Iowa. Phonograph-record cabinets. 159,717; June 19.
Nicholson, Lloyd E., New York, N. Y. Hosiery. 176,275; June 19.
Olympia Manufacturing Company, New York, N. Y. Cotton goods, particularly cotton and silk shirting. 175,153; June 19.
Orientalische Tabak- u. Cigarettenfabrik Yenidge, Inhaber, Hugo Zietz, Dresden, Germany. Raw tobacco, tobacco for smoking and chewing, and snuff, cigars, etc. 157,507; June 19.
Pacific Mills, Lawrence and Boston, Mass. Yarns. 176,499; June 19.
Pamlico Cottons, Ltd., New York, N. Y. Cretonnes, tapestries, and draperies in the piece. 150,464; June 19.
Parisian Specialty Co., Seattle, Wash. Facial packs. 171,382; June 19.
Pastene, P., & Co., Inc., Boston, Mass. Canned peeled tomatoes and tomato sauce. 178,278; June 19.
Peyton Packing Company, Charleston, W. Va., and El Paso, Tex. Breakfast bacon and picnics. 175,625; June 19.
Philadelphia Bottling Co. (See Kane, Thomas B.)
Philadelphia Paper Manufacturing Company, Philadelphia and Manayunk, Pa. Paper board. 174,855; June 19.
Pictogram Company, The. (See Talman, Charles F.)
Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 175,042; June 19.
Porter, Kenneth E., doing business as Rustnot Products Company, Cleveland, Ohio. Table, kitchen, butcher, and hunting knives and forks. 173,106; June 19.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 166,250; June 19.
Preserving Mushroom Co., Cleveland, Ohio. Salad dressing. 176,693; June 19.
Progressive Farmer Co., The, Raleigh, N. C., and Birmingham, Ala. Weekly magazine. 176,569; June 19.
Pup Toys Company, The, Chicago, Ill. Candy boxes, wrappers, and receptacles. 175,159; June 19.
Pyraid Products Corporation, Newark, N. J. Mouth-wash preparation. 176,428; June 19.
Queen City Extract Company, The, Cincinnati, Ohio. Grape-flavored sirup for beverage purposes. 163,413; June 19.
Rawlings Manufacturing Co., St. Louis, Mo. Baseballs, ball-players' gloves and mitts. 178,283; June 19.
Reed Oil Company, Rogers, Ark. Lubricating oils and greases. 176,366; June 19.
Reid, Murdock & Co., Chicago, Ill. Baking powder and baking soda. 176,283; June 19.
Reiff, Ronald A., Pottstown, Pa. Ladies' knitted underwear. 176,216; June 19.
Renulife Electric Co., Detroit, Mich. Electric therapeutic apparatus, including violet-ray, ozone generators, etc. 178,193; June 19.
Research Advertising Bureau. (See Cook, Jerome I.)
Resler, Herman & Company, Chicago, Ill. Cotton and silk and cotton piece goods, ladies' woolen dress fabrics, and dress linens. 159,286; June 19.
Rex Knitting Co., Little Falls, N. Y. Sweaters and sweater coats. 176,570; June 19.
Rich-Maid Mfg. Co., Inc., Richmond, Va. Popcorn confection. 171,816; June 19.
Roach, W. R., & Company, Grand Rapids, Mich. Fresh fruits and vegetables. 159,054; June 19.
Robert, Samuel, doing business as Konroe Merchants, New York, N. Y. Egg slicers and cake forms. 173,246; June 19.
Robertson Leather Company, Inc., New York, N. Y. Leathers. 177,329; June 19.
Rosemary Manufacturing Company, Roanoke Rapids, N. C. Jacquard-woven fabrics—namely, table, damask, tablecloths, and napkins. 175,027; June 19.
Ross Company, New York, N. Y. Rouge. 176,763; June 19.
Rothman, Nathan, doing business as Rough Rider Manufacturing Company, San Francisco, Calif. Khaki, corduroy, and worsted pants. 167,019; June 19.
Rough Rider Manufacturing Company. (See Rothman, Nathan.)
Rustnot Products Company. (See Porter, Kenneth E.)
Ryerson, Joseph T., & Son, Chicago, Ill. Cone-driven and geared-head engine lathes, turret lathes, etc. 177,023; June 19.
Sampson-Martin Corporation, New York, N. Y. Hot-water bags and bottles. 176,046; June 19.
Samson Candy Company, Mechanicsburg, Pa. Candies. 175,538; June 19.
Schaefer, John L., New York, N. Y. Paper toilet-seat covers. 179,683; June 19.
Schumacher, P. J., Co., Inc., New York, N. Y. Face cream and powder. 175,999; June 19.
Scott, Lewis L., St. Louis, Mo. Golf clubs. 179,746; June 19.
Segall, M. R., doing business as M. R. Segall & Co., Baltimore, Md. Coal, coke, and charcoal. 179,169; June 19.
Senora Paint Works, Inc., Long Island City, N. Y. Mixed liquid paints. 177,752; June 19.
Seymour Manufacturing Company, The, Seymour, Conn. Metals. 175,953; June 19.
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys, wire, and rods. 175,956; June 19.
Sheppard, George W., San Francisco, Calif. Parlor games. 179,383; June 19.
Sheppard, Osmond M., Bellingham, Wash. Candy. 173,367; June 19.
Shurtz, Thomas M., doing business as Manchester Handle & Turning Company, Manchester, Mich. Baseball bats. 177,458; June 19.
Simmons, Georgia A., Washington, D. C. Preparation for growing hair and the eradication of dandruff. 169,829; June 19.
Simplicity Sales Company, Seattle, Wash. Loose-leaf books of accounting, packages and pages therefor. 178,068; June 19.
Sinclair Refining Company, Chicago, Ill. Oils made from petroleum. 180,503; June 19.
Smart, David, Chicago, Ill. Title of monthly magazine. 177,112; June 19.
Smith & Dove Manufacturing Co., Andover, Mass. Cotton thread. 179,230; June 19.
Smith & Hofsess, Eldorado, Kans. Bread. 175,682; June 19.
Smith, J. Allen, & Co., Knoxville, Tenn. Self-rising flour. 175,527; June 19.
Sociedad Anonima Financiera y Comercial Fuhrmann Limitada, Buenos Aires, Argentina. Wool. 178,633; June 19.
South Bend Wholesale Grocery Company, South Bend, Ind. Canned corn, peas, beans, succotash, etc. 175,814; June 19.
Spoehr's, Chicago, Ill. Candy. 139,134; June 19.
Standard Drug Company, Los Angeles, Calif. Preparation used in the treatment of kidney and bladder diseases, etc 176,289; June 19.
Standard Drug Company, Los Angeles, Calif. Preparation used in the treatment of general debility, lost vitality, etc. 176,290; June 19.
Standard Oil Company of New York, New York, N. Y. Floor oilers, yarn mops, dust cloths, etc. 177,576; June 19.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Liquid petrolatum. 180,249; June 19.
Standard Ultramarine Co., The, Huntington, W. Va. Laundry blue. 176,699; June 19.
Stevens, J., Arms Company, New York, N. Y. Sporting rifles. 159,186–8; June 19.
Stroock, S., & Company, Inc., New York, N. Y. Pile fabric in the piece. 176,434; June 19.
Style-Center Tailoring Company, The, Cincinnati, Ohio. Women's and young women's clothing and garments. 172,566; June 19.
Sugar Cone Manufacturing Corp., Brooklyn, N. Y. Sugar cones. 167,538; June 19.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Phonographs, talking machines, and reproducers, horns, etc. 140,683; June 19.
Talman, Charles F., doing business as The Pictogram Company, Washington, D. C. Informational picture books. 177,055; June 19.
Tenny, William H. F., doing business as Tenny Vitalamine Co., Buffalo, N. Y. Tablets for relieving dyspepsia and constipation and increasing strength and vitality. 160,644; June 19.
Tetralin Gesellschaft mit beschränkter Haftung, Berlin, Germany. Lubricants and solvents, kerosene, benzine, gasoline, etc. 142,040; June 19.
Tetralin Gesellschaft mit beschränkter Haftung, Berlin, Germany. Glue, mucilage, and paste. 142,041; June 19.
Thornley and Booth Limited, Hyde, England. Socks for boots and shoes. 174,643; June 19.
Tilton & Keeler, Inc., New York, N. Y. Silk and cotton crêpe in the piece. 177,149; June 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Torbay & Dart Paint Co. Limited, The. Waterproofing compound for cement. 69,692; June 19.
Trojan Middy Co., Inc., Troy, N. Y. Middies, smocks, and children's dresses. 176,382; June 19.
Turner, Halsey Co., New York, N. Y. Cotton piece goods. 174,158; June 19.
Tut Manufacturing Company, Los Angeles, Calif. Dolls. 178,885; June 19.
Tuxedo Shirt Co. Inc., New York, N. Y. Dress, negligee, and work shirts. 173,944; June 19.
Uncle Wiggily Doll Co., The, New York, N. Y. Dolls simulating animal characters. 179,754; June 19.
Union Hosiery Company. (See Wallach, David.)
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 176,861; June 19.
United States Overall Manufacturing Company, The, Cincinnati, Ohio. Convertible coats. 175,972; June 19.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Coats. 175,580; June 19.
United Turkey Red Company Limited, Glasgow, Scotland. Cotton yarns. 165,838; June 19.
Universal Feature & Specialty Company, Chicago, Ill. Dolls and puzzle games. 177,344; June 19.
Ursone, Joseph, doing business as Little Giant Tow Line Co., Columbus, Ohio. Automobile tow-lines. 178,417; June 19.
Uswald, Harry, Brooklyn, N. Y. Coats, wraps, capes, and neckpieces. 155,280; June 19.
Uswald, Harry, Brooklyn, N. Y. Fur coats, wraps, capes, and neck pieces. 155,281; June 19.
Virden Packing Company, San Francisco, Calif. Canned tomatoes. 175,633; June 19.
Voluma Corporation, The, Baltimore, Md. Talking machines, reproducers, recorders, and needles for talking machines, and parts therefor. 155,328; June 19.
Voss & Stern, New York, N. Y. Cotton piece goods. 160,323; June 19.
Voss & Stern, New York, N. Y. Silk piece goods. 160,325; June 19.
Voss & Stern, New York, N. Y. Cotton and silk mixture piece goods. 160,328; June 19.
Waldorf, Isaac, Baltimore, Md. Union suits of textile fabric. 170,511; June 19.
Walker, Madam C. J., Mfg. Co., The, Indianapolis, Ind. Hair salve. 173,017; June 19.
Wall Paper Manufacturers Limited, The, London, England. Dry, ready-mixed, and paste paints. 169,381; June 19.
Wallach, David, doing business as Union Hosiery Company, New York, N. Y. Hosiery. 176,772; June 19.
Wallau, Alex L., New York, N. Y. Knitted wear. 173,018–19; June 19.
Ward and Pierre. (See Beebe Laboratories, Incorporated.)
Watson Manufacturing Company, Lancaster, Pa. Poultry-raising appliances. 115,304; June 19.
Welbilt Auto-Body Co., Los Angeles, Calif. Vehicles, particularly automobile bodies. 177,338; June 19.
Western Reserve Oil Company, The, Cleveland, Ohio. Lubricating oils and greases. 178,366; June 19.
Wetmore, L. S., Company, The, Stockton, Calif. Grape juice. 179,575; June 19.
Wilder & Jacobs, Boston, Mass. Processed coffee. 175,045; June 19.
Wilkin & Adler, Inc., New York, N. Y. Ladies' coats and suits. 176,519; June 19.
Wilkins, E. J., Co., Gloversville, N. Y. Coin purses, pocketbooks, hand bags, roll-ups, etc. 175,448; June 19.
Wilson, John M., doing business as Meridian Grain Elevator Company, Meridian, Miss. Horse and mule feed, ox, hog, scratch, and dairy feed. 175,536; June 19.
Wilsonville Roller Mills. (See Laux, John.)
Wortendyke Manufacturing Co., Richmond, Va. Toilet paper, paper towels. 166,864; June 19.
Wortendyke Manufacturing Co., Richmond, Va. Toilet paper. 179,911; June 19.
Wyman, Partridge & Co., Minneapolis, Minn. Hosiery. 176,306; June 19.
Wyman, Partridge & Co., Minneapolis, Minn. Underwear. 176,307; June 19.
Yo! Mammy's Milk Co. (See Lyons, Langston L.)
Young Folks Mf'g. Co., New York, N. Y. Children's suits, wash suits, and play suits. 164,528; June 19.
Young, Sverre, Christiania, Norway. Knapsacks, baggage, and baggage devices, etc. 178,201–2; June 19.
Zielinski, Alexander, Trenton, N. J. Salves. 175,905; June 19.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. W. W. Billard. 169,566; June 19.
Coal. Manchester Coal Co. 169,568; June 19.

CLASS 2.

Bags, Burlap. Bemis Bro. Bag. Co. 169,435; June 19; Serial No. 173,555; published Mar. 20, 1923.
Boards, fabric winders, etc., Cloth and bolt. H. Bridgman Smith Company. 169,538; June 19; Serial No. 169,277; published Mar. 20, 1923.
Boxes or receptacles of various shapes and sizes. Tin Decorating Company of Baltimore. 169,521; June 19; Serial No. 172,619; published Mar. 20, 1923.
Boxes, Paper and fiber. Buffalo Box Factory. 169,570; June 19.
Carryall or bag. C. B. Stanton. 169,527; June 19; Serial No. 163,295; published Mar. 20, 1923.
Gasoline and oil tanks, Emergency. J. C. Mewshaw. 169,477; June 19; Serial No. 174,021; published Feb. 27, 1923.
Paper boxes. F. N. Burt Company. 169,502–3; June 19; Serial Nos. 159,494–5; published Mar. 20, 1923.
Spectacle cases. Pressto Leather Products Corporation. 169,473; June 19; Serial No. 173,720; published Mar. 20, 1923.

CLASS 4.

Cleaning and polishing powder, Metal. C. Paskocil. 169,437; June 19; Serial No. 173,296; published Mar. 20, 1923.
Cleaning powder for water-closet bowls. Hygienic Products Company. 169,498; June 19; Serial No. 155,436; published Feb. 28, 1922.
Friction compound. Armiger Chemical Co. 169,467; June 19; Serial No. 173,618; published Mar. 20, 1923.
Metal polish. Barsum Bros. 169,491; June 19; Serial No. 137,512; published Sept. 5, 1922.
Paper and cloth, Flint, garnet, and emery. American Glue Company. 169,485; June 19; Serial No. 174,648; published Mar. 20, 1923.
Polish, Aluminum and metal. Spicky Polish Corporation. 169,482; June 19; Serial No. 174,539; published Mar. 20, 1923.
Polish, Stove. M. Siegel. 169,513; June 19; Serial No. 171,965; published Mar. 20, 1923.
Preparation for removing grease spots, washing the head, cleaning silverware, and killing bedbugs. I. N. Eaton. 169,528; June 19; Serial No. 165,359; published Dec. 26, 1922.
Soap. Colgate & Company. 169,480; June 19; Serial No. 174,292; published Mar. 20, 1923.
Soap. Lady Janis Perfume Co. 169,469; June 19; Serial No. 173,653; published Mar. 20, 1923.
Soap. Remiller Co. 169,470; June 19; Serial No. 173,673; published Mar. 20, 1923.
Soap. N. Rieser Company. 169,523–5; June 19; Serial Nos. 172,654–6; published Mar. 20, 1923.
Soap. Taylor and Atkinson. 169,490; June 19; Serial No. 124,556; published May 9, 1922.
Soap, Perfumed. J. Grossmith & Son, Limited. 169,545; June 19; Serial No. 170,978; published Mar. 20, 1923.
Soaps, Toilet. Lamborn & Company. 169,481; June 19; Serial No. 174,397; published Mar. 20, 1923.
Vehicle tops and leather and rubber goods, Dressing for Motor-. Alger & Mowry Manufacturing Company. 169,508; June 19; Serial No. 171,606; published Mar. 20, 1923.

CLASS 5.

Cements for sealing tin cans, glass or metal containers, and bottle caps, etc. Dewey and Almy Chemical Company. 169,515; June 19; Serial No. 172,033; published Mar. 20, 1923.

CLASS 6.

Laxative medicine. Kentucky Fruit Laxative Co. 169,571; June 19.
Ointment or jelly for external use. C. F. Uhl. 23,670; renewed Oct. 3, 1923.

CLASS 7.

Cord, Braided sash. Samson Cordage Works. 23,509; renewed Aug. 15, 1923.
Rope, Hemp. Hooven & Allison Company. 169,487; June 19; Serial No. 117,598; published Dec. 30, 1919.
Rope, Sisal. Hooven & Allison Company. 169,486; June 19; Serial No. 117,596; published Dec. 30, 1919.

CLASS 9.

Gun and rifle cases, revolver and pistol holders, and belts. Williamsport Leather Goods Company. 169,536; June 19; Serial No. 168,396; published Mar. 20, 1923.

CLASS 11.

Inks. Barnängens Teckn. Fabrikers A. B. 169,453; June 19; Serial No. 172,720; published Mar. 27, 1923.
Inks. Barnängens Teckn. Fabrikers A. Bolag. 169,452; June 19; Serial No. 172,722; published Mar. 27, 1923.

CLASS 12.

Cement, Composition for use in hardening. Sullivan Company. 169,436; June 19; Serial No. 173,305; published Mar. 27, 1923.
Concrete hardener and accelerator. Semet-Solvay Company. 169,438; June 19; Serial No. 173,250; published Mar. 27, 1923.
Fire brick. Stevens Brothers and Company. 169,465; June 19; Serial No. 174,706; published Mar. 27, 1923.
Lathing, Sheet. Sheet Lathing Corporation. 169,512; June 19; Serial No. 171,962; published Mar. 27, 1923.
Pipes, Paste packing for steam. Ever-Ready Paste Packing Company. 169,552; June 19.
Wood, Ply. Elliott Bay Mill Company. 169,540; June 19.

CLASS 15.

Greases, Lubricating. U. S. Oil & Supply Co. 169,495; June 19; Serial No. 148,904; published Mar. 20, 1923.
Oils, Lubricating. Texas Company. 169,537; June 19; Serial No. 169,143; published Mar. 20, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 169,459–60; June 19; Serial Nos. 174,939–40; published Mar. 20, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 169,461–2; June 19; Serial Nos. 174,936–7; published Mar. 20, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 169,463; June 19; Serial No. 174,934; published Mar. 20, 1923.
Petroleum and products of petroleum. Standard Oil Company of New York. 169,464; June 19; Serial No. 174,931; published Mar. 20, 1923.

CLASS 16.

Paint. J. McLeod. 169,505; June 19; Serial No. 160,360; published Mar. 20, 1923.
Paint pigments. Krebs Pigment & Chemical Company. 169,446; June 19; Serial No. 172,840; published Mar. 27, 1923.
Paints. Eberson-Lindsley Paint Company. 169,556; June 19.
Paints, paint enamels, japans, varnishes, stains, and fillers. Sherwin-Williams Company. 169,471–2; June 19; Serial No. 173,680–1; published Mar. 20, 1923.
Paints, paint enamels, japans, varnishes, stains, and fillers. Sherwin-Williams Company. 169,474; June 19; Serial No. 173,789; published Mar. 20, 1923.
Paints, paint enamels, japans, varnishes, stains, and fillers. Sherwin-Williams Company. 169,475; June 19; Serial No. 173,787; published Mar. 20, 1923.
Paints, Ready mixed. Charles M. Childs & Co. Inc. 169,443; June 19; Serial No. 173,031; published Mar. 20, 1923.
Paints, varnishes, and stains. United Paint-Up Stores, Inc. 169,517; June 19; Serial No. 172,302; published Mar. 20, 1923.
Paints, varnishes, enamels, wood fillers, etc. Enterprise Paint Mfg. Co. 169,451; June 19; Serial No. 172,735; published Mar. 20, 1923.
Polish for automobiles, etc. Byrnes-Linn Products Co. 169,445; June 19; Serial No. 172,860; published Mar. 20, 1923.
Shellac, shellac gums, varnishes, etc. Adolphe Hurst & Company. 169,526; June 19; Serial No. 161,777; published Mar. 20, 1923.
Turpentine substitute. J. Mason. 169,544; June 19; Serial No. 170,395; published Mar. 20, 1923.
Varnish stain. Baker Paint & Varnish Co. 169,484; June 19; Serial No. 174,603; published Mar. 20, 1923.

CLASS 21.

Batteries and parts thereof. Hood Rubber Company. 169,483; June 19; Serial No. 174,577; published Mar. 27, 1923.
Electric light and power plant units. Universal Engineering Company. 169,448; June 19; Serial No. 172,810; published Mar. 27, 1923.
Electric-lighting fixtures. Colonial Lamp & Fixture Works. 169,440–1; June 19; Serial Nos. 173,176–7; published Mar. 27, 1923.
Electrical apparatus, machines, and supplies. Johns-Pratt Company. 169,454; June 19; Serial No. 172,680; published Mar. 27, 1923.
Hot plates and flatirons, Electrically-heated. Central Flatiron Mfg. Co. 169,468; June 19; Serial No. 173,622; published Mar. 27, 1923.
Lamps, Incandescent. Nitrogen Electric Company. 169,466; June 19; Serial No. 173,577; published Mar. 27, 1923.
Motor horns, Electrical. United Electrical Manufacturing Co. 169,450; June 19; Serial No. 172,787; published Mar. 27, 1923.
Motors, Electric. Azor Motor Mfg. Co. 169,479; June 19; Serial No. 174,285; published Mar. 27, 1923.
Pianos, Motors for player. Motor Player Corporation. 169,501; June 19; Serial No. 158,630; published Mar. 27, 1923.
Radiodetectors. O. W. Towner. 169,458; June 19; Serial No. 174,947; published Mar. 27, 1923.
Radio equipment. Radio Frequency Laboratories, Inc. 169,478; June 19; Serial No. 174,260; published Mar. 27, 1923.
Radio parts. Failkill Radio & Electrical Co. 169,444; June 19; Serial No. 172,983; published Mar. 27, 1923.
Radiotelephone, wireless telegraph and telephone receivers. True Tone Radio Mfg. Co. 169,575; June 19.
Sweepers, Electric suction. Hoover Suction Sweeper Company. 169,520; June 19; Serial No. 172,594; published Mar. 27, 1923.

CLASS 22.

Rackets, Lawn-tennis, etc. Dayton Steel Racquet Company. 169,567; June 19.
Toy banks. L. I. King. 169,557–8; June 19.

CLASS 24.

Ironing machines, Laundry. Utensils Company. 169,529; June 19; Serial No. 165,612; published Mar. 27, 1923.
Washing machines, Electric laundry. Marshall-Wells Company. 169,576; June 19.

CLASS 26.

Dividers, Proportional. Keuffel & Esser Co. 23,640; renewed Sept. 19, 1923.

CLASS 27.

Clocks. A. Dorsey. 169,560; June 19.
Clocks. E. I. du Pont de Nemours & Company. 169,543; June 19; Serial No. 170,235; published Mar. 27, 1923.
Clocks, Alarm. F. W. Jansen Clock Company. 169,500; June 19; Serial No. 157,615; published Mar. 27, 1923.
Watches. Jovis Watch Co. 169,507; June 19; Serial No. 171,498; published Mar. 27, 1923.
Watches and watchcases. J. Gottlieb. 169,497; June 19; Serial No. 154,269; published Mar. 27, 1923.

CLASS 28.

Rings and ring mountings, Finger. Shirley Manufacturing Co. 169,509; June 19; Serial No. 171,820; published Mar. 27, 1923.
Table and household ware. Mappin & Webb Limited. 169,555; June 19.
Table and household ware. Mappin & Webb Limited. 169,561; June 19.

CLASS 29.

Toothbrushes. Florence Manufacturing Company. 23,179; renewed June 6, 1923.

CLASS 32.

Cushions, Fabricated. E. P. Harley. 169,565; June 19.

CLASS 35.

Piston rings. Cohagan Patent Piston Ring Manufacturing Company. 169,504; June 19; Serial No. 160,046; published Oct. 10, 1922.
Tires, Inner tubes for pneumatic. Inner Guard Tube & Rubber Company. 169,563; June 19.

CLASS 36.

Guitars, mandolins, banjos, and zithers. W. J. Dyer & Bro. 23,193; renewed June 13, 1923.
Musical instruments. Lyon & Healy. 169,493; June 19; Serial No. 148,605; published Mar. 27, 1923.
Musical instruments, Music rolls for self-playing. Italian Book Co. 169,510; June 19; Serial No. 171,922; published Mar. 27, 1923.
Phonographs and parts thereof. O. W. Richardson & Co. 169,506; June 19; Serial No. 171,038; published Mar. 27, 1923.

CLASS 38.

Almanacs, Yearly. Karlson, Gordonville & Johnson, Incorporated. 169,540; June 19; Serial No. 169,762; published Mar. 20, 1923.
Music, Sheet. Circle Music Publishing Company. 169,447; June 19; Serial No. 172,827; published Mar. 20, 1923.
Newspaper, Name or title of a weekly. Walker Publishing Co. 169,442; June 19; Serial No. 173,159; published Mar. 20, 1923.
Periodical, Monthly. San Antonio Bible Institute, Inc. 169,439; June 19; Serial No. 173,215; published Mar. 20, 1923.
Prints and post cards. Georgi & Co. 169,492; June 19; Serial No. 137,521; published Jan. 3, 1923.

CLASS 39.

Boots and shoes. Edwin Clapp & Son, Inc. 169,522; June 19; Serial No. 172,639; published Mar. 27, 1923.
Boots and shoes. Whitman & Keith Co. 169,518; June 19; Serial No. 172,311; published Mar. 27, 1923.
Brassières. Naturaline Corset Company. 169,516; June 19; Serial No. 172,116; published Mar. 27, 1923.
Garters and arm bands. Sturm & Scheinberg. 169,494; June 19; Serial No. 148,822; published Mar. 27, 1923.
Garters, Men's. J. C. Penney Company. 169,532; June 19; Serial No. 166,710; published Mar. 27, 1923.

Hats, Men's and women's. Davis-Pope Company Incorporated. 169,519; June 19; Serial No. 172,585; published Mar. 27, 1923.
Overcoats and ulsters. New Process Company. 169,573; June 19.
Pants, khaki pants, work shirts, and overalls, Cotton. Greenberg-Kantor Company. 169,535; June 19; Serial No. 168,033; published Jan. 30, 1923.
Raincoats. New Process Company. 169,574; June 19.
Rubber heels. Taunton Rubber Company. 169,514; June 19; Serial No. 171,069; published Mar. 27, 1923.
Shirts, Boys', men's, and work. Mohawk Shirt Co. 169,533; June 19; Serial No. 166,893; published Feb. 20, 1923.
Shirts, Dress and negligee. North Bros. & Co. 169,572; June 19.
Shoes, rubbers, overshoes, etc. Richards & Brennan Co. 169,534; June 19; Serial No. 167,011; published Mar. 27, 1923.

CLASS 42.

Carpets, Wilton. Philadelphia Carpet Co. 169,531; June 19; Serial No. 166,604; published Mar. 20, 1923.
Cotton goods in the piece. Virginia Cotton Mills. 169,457; June 19; Serial No. 175,043; published Mar. 20, 1923.
Cotton piece goods. Minot, Hooper & Co. 169,455; June 19; Serial No. 175,204; published Mar. 20, 1923.
Cotton, silk, etc., piece goods. Gargoyle Textile Corporation. 169,489; June 19; Serial No. 118,597; published Nov. 4, 1919.
Hair nets. Paristyle Novelty Co. Inc. 169,456; June 19; Serial No. 175,154; published Mar. 20, 1923.
Handkerchiefs. N. M. Cohen. 169,449; June 19; Serial No. 172,796; published Mar. 20, 1923.
Padding or covering for flatwork ironers. Progressive Weaving Co. 169,549; June 19.
Ribbons and hatbands. Cohen & Kraus. 169,541; June 19; Serial No. 169,892; published Mar. 20, 1923.
Silk, linen, cotton, and jute piece goods and mixtures. Clarendon M'f'g Company. 169,542; June 19; Serial No. 170,054; published Nov. 7, 1922.

CLASS 44.

Arch supporters, foot bands, and bandages. F. H. Jensen. 169,569; June 19.
Bottles and bags and syringes, Hot-water. Jordan Marsh Company. 169,476; June 19; Serial No. 173,889; published Mar. 20, 1923.
Impression compound. Novocol Chemical Mfg. Co. 169,511; June 19; Serial No. 171,946; published Mar. 20, 1923.
Spectrochrome therapy, Apparatus for the treatment of diseases by. Spectro-Chrome Institute (Incorporated). 169,554; June 19.

CLASS 45.

Beverage sold as a soft drink. Emerson Drug Co. 169,553; June 19.
Beverage sold as a soft drink. Mouquin Rt. & Wine Co. 169,559; June 19.
Beverages and sirups for making same. Nonalcoholic, maltless. Tropical Fruit Juice Company. 169,496; June 19; Serial No. 153,058; published May 9, 1922.

CLASS 46.

Candies. Butter-Nut Candy Co. 169,549; June 19.
Candy. George Close Co. 169,547; June 19.
Canned fruits and vegetables. Charles G. Summers & Co. 169,488; June 19; Serial No. 118,451; published Nov. 2, 1920.
Coffee. A. Engelhard & Sons Co. 169,539; June 19; Serial No. 169,289; published Feb. 27, 1923.
Fish cakes. William Underwood Company. 169,550; June 19.
Fish cakes. Gorton-Pew Fisheries Company. 169,562; June 19.
Ice-cream cones. J. Gerace. 169,564; June 19.
Ice-cream containers, Edible. Jack Frost Sales Agency. 169,530; June 19; Serial No. 166,299; published Mar. 20, 1923.
Lard. North Packing and Provision Company. 23,258; renewed June 27, 1923.
Peanuts, peanut candies, and peanut butter, Salted. Lummis & Co. 169,499; June 19; Serial No. 156,230; published June 13, 1923.

CLASS 50.

Metal plates to hold the heat under cooking vessels. Shaw, Welsh, & Company. 169,551; June 19.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Coal. Central Indiana Coal Co. 179,516; June 19.
Coal, coke, and charcoal. M. R. Segall. 179,169; June 19.
Leathers. Robertson Leather Company. 177,329; June 19.
Shell and grit. East Coast Trading Co. 173,075; June 19.
Wool. Sociedad Anonima Financiera y Comercial Fuhrmann Limitada. 178,633; June 19.

CLASS 2.

Bags, Cotton, burlap, and paper. Bemis Bro. Bag Company. 145,544; June 19.
Boxes, hair receivers, and jewel boxes, Puff. Cutino Company. 173,407; June 19.
Boxes, wrappers, and receptacles, Candy. Pup Toys Company. 175,159; June 19.
Cups, Paper. Mayer Coating Machines Co. 169,028; June 19.

CLASS 3.

Kits and cases, Vanity. Bovee Novelty Company. 178,325; June 19.
Knapsacks, baggage, and luggage devices, etc. S. Young. 178,201-2.
Purses, pocketbooks, handbags, and roll-ups, Coin. E. J. Wilkins Co. 175,448; June 19.
Sacks, saddles, horse collars, etc., Pack. Marshall-Wells Company. 178,533; June 19.

CLASS 4.

Polish. H. D. Head. 173,705; June 19.

CLASS 5.

Glue, mucilage, and paste. Tetralin-Gesellschaft mit beschränkter Haftung. 142,041; June 19.

CLASS 6.

Baking powder and soda. Reid, Murdoch & Co. 176,283; June 19.
Chemical preparation. Berthorn Chemical Co. 176,320; June 19, 1923.
Cream, and powder, Face. P. J. Schumacher Co. 175,999; June 19.
Creams, Face. Beebe Laboratories, Incorporated. 172,724; June 19.
Dentifrices. N. M. Hopkins. 174,207; June 19.
Disinfectants. Britex Chemical Products Limited. 176,397; June 19.
Facial packs. Parisian Specialty Co. 171,382; June 19.
Hair grower, Antiseptic. George W. Merritt Company. 176,749; June 19.
Hair salve. Madam C. J. Walker Mfg. Co. 173,017; June 19.
Hair tonic, Floral antiseptic. George W. Merritt Company. 176,748; June 19.
Laundry blue. Standard Ultramarine Co. 176,699; June 19.
Liniments. W. A. McGuire. 175,365; June 19.
Lotion, Antiseptic, astringent, and deodorizing. Calcium Products, Incorporated. 176,322; June 19.
Ointment for acne and other skin diseases. Blue Bird Inc. Perfumers. 170,804; June 19.
Medicinal ointment. Eli Lilly & Company. 176,359; June 19.
Medicinal preparation. Granger Mineral Co. 175,014; June 19.
Mouth-wash preparation. Pyraid Products Corporation. 176,428; June 19.
Powder, Talcum. Foley & Company. 176,260; June 19.
Preparation for growing hair and eradication of dandruff. G. A. Simmons. 169,829; June 19.
Preparation used in the treatment of kidney and bladder diseases, etc. Standard Drug Company. 176,289; June 19.
Preparation used in the treatment of general debility, lost vitality, etc. Standard Drug Company. 176,290; June 19.
Remedy for expectant mothers, Herbal. H. M. Macdonald. 157,492; June 19.
Rouge. Ross Company. 176,763; June 19.
Salve for treating sore throat, croup, etc. Brooks Chemical Co. 176,599; June 19.
Salves. A. Zielinski. 175,905; June 19.
Tablets for relieving dyspepsia and constipation, etc. W. H. F. Tenny. 160,644; June 19.

CLASS 7.

Automobile towlines. J. Ursone. 178,417; June 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 9.

Rifles, Sporting. J. Stevens Arms Company. 159,186–8; June 19.

CLASS 10.

Fertilizers. Krippendorf-Tuttle White Cliffs Products Co. 177,744; June 19.

CLASS 11.

Ink, typewriter ribbons, carbon paper, etc., Writing. Deemer & Company. 171,206; June 19.

CLASS 12.

Cement, Waterproofing compound for. Torbay & Dart Paint Co. Limited. 169,692; June 19.

CLASS 13.

Egg slicers and cake forms. S. Robert. 173,246; June 19.
Metals. Seymour Manufacturing Company. 175,953; June 19.
Spring shackle, bolts, nuts, and metal washers. Continental Auto Parts Company. 170,475; June 19.

CLASS 14.

Alloys and wire, Metal. Seymour Manufacturing Company. 175,956; June 19.
Steel forgings, rail anchors, rail-anchor springs, etc. Canton Forge & Axle Company. 177,215; June 19.
Steel rods suitable for the making of taps and small tools. Globe Wire Co. 174,773; June 19.

CLASS 15.

Liquid Motor Fuel. Benzo-Gas Motor Fuel Company. 179,086; June 19.
Lubricants and solvents, kerosene, benzine, gasoline, etc. Tetralin Gesellschaft mit beschränkter Haftung. 142,040; June 19.
Oils. Sinclair Refining Company. 180,503; June 19.
Oils and greases. Keystone Lubricating Company. 178,738; June 19.
Oils and greases, Lubricating. Cato Oil and Grease Co. 179,293–4; June 19.
Oils and Greases, Lubricating. Dixie Oil & Grease Company. 166,659; June 19.
Oils and greases, Lubricating. Reed Oil Company. 176,366; June 19.
Oils and greases, Lubricating. Western Reserve Oil Company. 178,366; June 19.
Petrolatum, Liquid. Standard Oil Company. 180,249; June 19.

CLASS 16.

Lacquers and enamels. E. I. du Pont de Nemours & Company. 162,384; June 19.
Oxides, Red. J. A. McNulty. 177,684; June 19.
Paint purposes, Paste for. New Jersey Zinc Company. 178,402; June 19.
Paints. Asbestos, Limited. 177,262; June 19.
Paints. Wall Paper Manufacturers Limited. 169,881; June 19.
Paints, Mixed liquid. Senora Paint Works, Inc. 177,752; June 19.
Polish and cleaner for automobiles, phonographs, etc. W. La Lone. 178,615; June 19.
Polish, Furniture. Buddy Products Co. 178,217; June 19.
Shellac products, Specially-prepared. L. F. Cassoff. 175,343; June 19.

CLASS 17.

Tobacco, tobacco for smoking and chewing, and snuff, etc., Raw. Orientalische Tabak- u. Cigarettenfabrik Yenidze, Inhaber, Hugo Zietz. 157,507; June 19.

CLASS 19.

Mirrors for automobiles, Rear-view. E. C. A. Berger. 177,646; June 19.
Vehicles, particularly automobile bodies. Welbilt Auto-Body Co. 177,338; June 19.

CLASS 20.

Floor covering. Empire Carpet Co. 179,092; June 19.

CLASS 21.

Electric household appliances. Auerlicht Gesellschaft m. b. H. Kommanditgesellschaft. 177,538; June 19.
Electrical devices, Household. Allied Factories Corporation. 177,118; June 19.
Telephones, telephone receivers, transmitters, plugs, etc., Loud-speaking. Etna Radio Co. 177,218; June 19.

CLASS 22.

Baseball bats. T. M. Shurtz. 177,458; June 19.
Baseballs, ball-players' gloves and mitts. Rawlings Manufacturing Co. 178,283; June 19.
Dolls. American Character Doll Co. 179,130; June 19.
Dolls. Mah-Jongg Sales Company of America. 179,614; June 19.
Dolls. Tut Manufacturing Company. 178,885; June 19.
Dolls. Uncle Wiggily Doll Co. 179,754; June 19.
Dolls and puzzle games. Universal Feature & Specialty Company. 177,344; June 19.
Dolls, Combination headdress and waistband for. A. Corenson. 179,840; June 19.
Game. Lubbers and Bell Manufacturing Company. 178,753; June 19.
Game, Educational puzzle. Alpha Game & Toy Company. 174,275; June 19.
Games, Parlor. G. W. Sheppard. 179,383; June 19.
Golf clubs. L. L. Scott. 179,746; June 19.
Toy dogs. F. O. King. 177,229; June 19.
Toy, Seesaw. Buddy-Bouncer Company. 179,395; June 19.

CLASS 23.

Bits and augers. Irwin Auger Bit Company. 179,098–103; June 19.
Cutting machines for use in the manufacture of hats. Durbrow & Hearne. 174,822; June 19.
Engines, Appliance for lubricating and cooling internal-combustion. Lubi Kool Company. 179,156; June 19.
Knives and forks, Table, kitchen, butcher, and hunting. K. E. Porter. 173,106; June 19.
Lathes, Milling and drilling machines, etc. Joseph T. Ryerson & Son. 177,023; June 19.
Road-building machinery, metal-working equipment, etc. Little Giant Company. 159,210; June 19.
Whistles, Power. H. Freund. 177,289; June 19.
Wrenches, pliers, hammers, etc. Herbrand Company. 179,729; June 19.

CLASS 25.

Automobile lock. R. Huber. 160,287; June 19.

CLASS 26.

Holding and measuring apparatus for stone, gravel, etc. Erie Steel Construction Company. 171,308; June 19.
Patterns, Dress. Excella Pattern Company. 177,660; June 19.

CLASS 27.

Watchcases. Joseph Fahys & Company. 177,597; June 19.

CLASS 29.

Hairbrushes. Cutino Company. 178,230; June 19.
Mop and duster, Combination. A. Link. 177,395; June 19.
Oilers, yarn mops, dust cloths and yarn dust brushes, Floor. Standard Oil Company of New York. 177,576; June 19.
Paintbrushes. Baker Brush Co. 178,490; June 19.
Powder puffs. C. M. Berman. 174,230; June 19.
Powder puffs. J. J. Cosin. 177,167; June 19.

CLASS 32.

Mirrors and ornamental picture frames, Toilet. Cutino Company. 178,228; June 19.

CLASS 34.

Boilers, furnaces, and heaters, etc., Steam. Alexander Morrison & Company. 160,456; June 19.
Burner drums. Cleveland Metal Products Company. 176,951; June 19.

CLASS 35.

Belting, hose, and packing, Machinery. Manhattan Rubber Mfg. Co. 160,825; June 19.
Rings, Piston. Bailey & Company. 179,131; June 19.
Tires, inner tubes, tire valves and treads, etc., Solid and pneumatic. Continental-Caoutchouc- und Gutta-Percha-Compagnie. 172,977; June 19.

CLASS 36.

Harmonica, Mouth. American Wholesale Corporation (Baltimore Bargain House). 172,816; June 19.
Phonograph-record cabinets. National Record Exchange Company. 159,717; June 19.
Phonographs, talking machines, and reproducers, horns, etc. Supplee-Biddle Hardware Company. 140,683; June 19.
Talking machines and parts thereof. E. A. Graham. 176,964; June 19.
Talking machines, reproducers, records, etc. Voluma Corporation. 155,328; June 19.

CLASS 37.

Books, Blank-form. J. I. Cook. 176,165; June 19.
Books of accounting and packages and pages therefor, Loose-leaf. Simplicity Sales Company. 178,068; June 19.
Labeling clips for use with loose-leaf binders. Benj. D. Benson & Sons, Inc. 152,536; June 19.
Paper and mailing envelopes, Writing and printing. American Writing Paper Company. 179,701; June 19.

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Paper, and towels, Toilet. Wortendyke Manufacturing Co. 166,864; June 19.
Paper board. Philadelphia Paper Manufacturing Company. 174,855; June 19.
Paper, cards, envelopes, etc., Correspondence. M. T. Bird. 179,846; June 19.
Paper, Crêpe. Dennison Manufacturing Co. 178,093; June 19.
Paper, envelopes, and wrapping paper, Cover and writing. J. Hooz. 179,868; June 19.
Paper, Gummed. Ideal Coated Paper Company. 130,477; June 19.
Paper, Toilet. Wortendyke Manufacturing Co. 179,911; June 19.
Paper toilet-seat covers. J. L. Schaefer. 179,683; June 19.
Paper, Tracing. J. D. Cardinell. 179,712–3; June 19.
Pencils, Lead. Eberhard Faber Pencil Company. 177,835; June 19.

CLASS 38.

Books, Informational picture. C. F. Talman. 177,055; June 19.
Bulletin. Church. Church Bulletin, Inc. 158,178; June 19.
Magazine, Title of monthly. D. Smart. 177,112; June 19.
Magazine, Weekly. Progressive Farmer Co. 176,569; June 19.
Periodicals. Excella Pattern Company. 177,661; June 19.
Pictures. D. Davidson. 178,932; June 19.

CLASS 39.

Clothing and garments, Women's and young women's. Style-Center Tailoring Company. 172,566; June 19.
Coats. United States Rubber Company. 175,580; June 19.
Coats and like negligees, Breakfast. De Garcy Co. 161,821; June 19.
Coats and suits, Ladies'. Wilkin & Adler, Inc. 176,519; June 19.
Coats, Convertible. United States Overall Manufacturing Company. 175,972; June 19.
Coats, wraps, capes, and neckpieces. H. Uswald. 155,280; June 19.
Coats, wraps, capes, and neckpieces, Fur. H. Uswald. 155,281; June 19.
Dresses, Tailor-made. Greenwald, Friedman & Co. 177,184; June 19.
Football pants and jackets, knit worsted union suits, football shoes, etc. James W. Brine Company. 172,579; June 19.
Hat linings. E. Bouton. 145,430; June 19.
Hosiery. J. A. Clifford. 176,013; June 19.
Hosiery. Concordia Silk Hosiery Company. 172,523; June 19.
Hosiery. Daisy Whitehead Knitting Co. 175,826; June 19.
Hosiery. Gerson & Breyer. 176,174; June 19.
Hosiery. L. E. Nicholson. 176,275; June 19.
Hosiery. Powell Knitting Company. 166,250; June 19.
Hosiery. United Hosiery Mills Corporation. 176,861; June 19.
Hosiery. D. Wallach. 176,772; June 19.
Hosiery. Wyman, Partridge & Co. 176,206; June 19.
Hosiery and sweaters, scarfs, caps, bootees, and knit sets. A. B. Frank Company. 170,634; June 19.
Hosiery and underwear of knitted and textile fabric. Colter & Bernie. 171,152; June 19.
Knitted sweaters, scarfs, and ties. Atlas Sweater Mills, Inc. 168,506; June 19.
Knitted underwear, Ladies'. R. A. Reiff. 176,216; June 19.
Knitted wear. A. L. Wallau. 173,018–9; June 19.
Middies, smocks, and children's dresses. Trojan Middy Co. 176,582; June 19.
Neckties. Grip Bow Tie Company. 173,353; June 19.
Pants, Khaki, corduroy, and worsted. N. Rothman. 167,019; June 19.
Shirts, Dress, negligee, and work. Tuxedo Shirt Co. 173,944; June 19.
Shirts, nightshirts, and pyjamas, Men's dress and negligee. G. D. Grosner. 173,419; June 19.
Socks for boots and shoes. Thornley and Booth Limited. 174,643; June 19.
Suits and topcoats. Bestmake Boys Clothing Co. 171,199; June 19.
Suits, Children's wash and play. Young Folks M'f'g. Co. 164,528; June 19.
Suits, Union. I. Waldorf. 170,511; June 19.
Sweaters. Ely & Walker Dry Goods Company. 177,284; June 19.
Sweaters and sport coats. J. H. Cohen. 175,851; June 19.
Sweaters and sweater coats. Rex Knitting Co. 176,570; June 19.
Underwear. Wyman, Partridge & Co. 176,307; June 19.

CLASS 41.

Umbrellas and parasols. F. M. Burns. 177,956; June 19.

CLASS 42.

Cotton and silk mixture piece goods. Voss & Stern. 160,328; June 19.
Cotton goods. Olympia Manufacturing Company. 175,153; June 19.
Cotton piece goods. Joseph Bancroft & Sons Company. 176,440; June 19.
Cotton piece goods. Charles L. Poor Co. 175,042; June 19.
Cotton piece goods. Turner, Halsey Co. 174,158; June 19.
Cotton piece goods. Voss & Stern. 160,323; June 19.
Cotton piece goods, silk and cotton goods, ladies' woolen dress fabric, etc. Herman Kesler & Company. 159,286; June 19.
Cretonnes, tapestries, and draperies in the piece. Pamlico Cottons, Ltd. 150,464; June 19.
Fabric in the piece, Pile. S. Stroock & Company. 176,434; June 19.
Fabrics, Jacquard-woven. Rosemary Manufacturing Company. 175,027; June 19.
Hair nets. George Borgfeldt & Co. 177,120; June 19.
Percales in the piece. Carter Dry Goods Company. 169,280; June 19.
Silk and cotton crêpe in the piece. Tilton & Keeler, Inc. 177,149; June 19.
Silk in the piece, Broad. Artsilk Knitting Mills. 169,743; June 19.
Silk piece goods. Voss & Stern. 160,325; June 19.
Silks and silk and cotton goods in the piece, Broad. H. Kobayashi & Co. 170,769; June 19.
Wool textile piece goods. W. H. Holbrook Company. 177,489; June 19.

CLASS 43.

Silk, Spun. Mesquita & Lange. 174,665; June 19.
Thread, Cotton. Smith & Dove Manufacturing Co. 179,230; June 19.
Yarns. Pacific Mills. 176,499; June 19.
Yarns, Cotton. United Turkey Red Company. 165,838; June 19.

CLASS 44.

Bags and bottles, Hot-water. Sampson-Martin Corporation. 176,046; June 19.
Dental band material. Baker & Co. 178,949; June 19.
Dental metal. Baker & Co. 178,950–1; June 19.
Electric therapeutic apparatus. Renulife Electric Co. 178,193; June 19.
Fabric rolls impregnated with a dentifrice and holders therefor. Dentrol Sales Corporation. 175,009; June 19.

CLASS 45.

Beverages sold as soft drinks and sirups for making the same. T. B. Kane. 179,046; June 19.
Grape flavored sugar drink, Concentrate for making. Howdy Company. 180,183; June 19.
Grape juice. L. S. Wetmore Company. 179,575; June 19.
Sirup for beverage purposes, Grape-flavored. Queen City Extract Company. 163,413; June 19.
Sirups, Nonalcoholic, maltless fruit. E. Burden. 172,507; June 19.

CLASS 46.

Bacon and picnics, Breakfast. Peyton Packing Company. 175,625; June 19.
Bread. Hall Baking Co. 175,787; June 19.
Bread. Smith & Hofsess. 175,682; June 19.
Candies. A. Bernard. 176,155–6; June 19.
Candies. Samson Candy Co. 175,538; June 19.
Candy. Chocolate Products Company. 175,711; June 19.
Candy. G. B. Hooker. 174,778; June 19.
Candy. O. M. Sheppard. 173,367; June 19.
Candy. Spoehr's. 139,134; June 19.
Canned corn, peas, beans, succotash, etc. South Bend Wholesale Grocery Company. 175,814; June 19.
Canned peeled tomatoes and tomato sauce. P. Pastene & Co. 178,278; June 19.
Canned pimientos. A. Burnham. 175,064; June 19.
Canned tomatoes. Virden Packing Company. 175,633; June 19.
Coffee, Processed. Wilder & Jacobs. 175,045; June 19.
Cones, Sugar. Sugar Cone Manufacturing Corp. 167,538; June 19.
Feeds. J. M. Wilson. 175,536; June 19.
Flour, Self-rising. J. Allen Smith & Co. 175,527; June 19.
Flour, Wheat. Colorado Milling & Elevator Co. 175,470; June 19.
Flour, Wheat. J. Laux. 175,501; June 19.
Food, Cereal breakfast. Battle Creek Food Company. 175,701; June 19.
Food-flavoring extracts and coffee. C. A. Murdock Mfg. Co. 175,805; June 19.
Food, Nut cereal. Battle Creek Food Company. 175,838; June 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fruits and grapes, Deciduous. Y. Maeda. 158,782; June 19.
Fruits and vegetables, Fresh. W. R. Roach & Company. 159,054; June 19.
Fruits, Fresh citrous. Lindsay Co-Operative Citrus Association. 175,609; June 19.
Fudge. Golden Nugget Sweets. 137,927; June 19.
Grapefruit, Fresh. Merrick and Rice. 154,317; June 19.
Gum, Chewing. American Chicle Company. 175,834; June 19.
Hams, bacon, and sausage. Indianapolis Abattoir Company. 174,837; June 19.
Ice cream. J. M. Gries. 174,832; June 19.
Macaroni. F. A. Martoccio Macaroni Co. 175,258; June 19.
Milk and cream. Beatrice Creamery Company. 175,459; June 19.
Milk, Evaporated. L. L. Lyons. 175,668; June 19.
Milk, Powdered. Merrell-Soule Company. 174,146; June 19.
Oil and canned fruits and vegetables, Olive. Mouquin Restaurant and Wine Company. 176,687; June 19.
Popcorn confection. Rich-Maid Mfg. Co. 178,816; June 19.
Potatoes. E. D. Askegaard. 175,911; June 19.
Salad dressing. Mrs. C. H. Evans. 174,430; June 19.
Salad dressing. W. E. Johnson. 158,188; June 19.
Salad dressing. Preserving Mushroom Co. 176,693; June 19.
Sirup and sugar, Maple. Maple Producers' Co-Operative Association, Inc. 175,432; June 19.
Vegetable flavors. Battle Creek Food Company. 175,704; June 19.

CLASS 48.

Beverage and malt sirup for making same, Malt or cereal. Crown Brewing Co. 179,032; June 19.
Malt extracts, Pure. S. Katz. 172,047; June 19.
Sirup and extract, Concentrated malt. Milwaukee Malting & Grain Co. 147,303; June 19.
Sirup, Malt. W. Henle. 178,248; June 19.

CLASS 50.

Poultry-raising appliances. Watson Manufacturing Company. 115,304; June 19.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. S. Gilman Printing Company, The. (See Gilman, A. S., Bennett, and Kiesling, assignors.)
Abel, Siegfried, Berlin, Germany. Electric immersion liquid heater. 1,459,065; June 19.
Abrahams, Marks, Chicago, Ill. Safety holder. 1,459,429; June 19.
Adams, Victor L., Waco, Tex. Pressure-controlling device. 1,459,666; June 19.
Aesdale, Wilson J. (See Van Vickle, William H., assignor.)
Air Brake Safety Appliance Company. (See Hellmann, L. F., and Baxter, assignors.)
Aitkens, Eric H., Sydney, New South Wales, Australia. Rubber-cushion wheel. 1,459,430; June 19.
Aldendorff, Fritz, Berlin-Wilmersdorf, Germany. Telephone-exchange system. 1,459,175; June 19.
Alexander, Armastead M., Independence, Mo. Confection and making the same. 1,459,078; June 19.
Alexander, Claude H., Oxford, Pa. Device for pulling bearing cups, sleeves, and the like. 1,459,131; June 19.
Alice, Princess Andrew of Greece, St. Cloud, France. Crimper. 1,459,132; June 19.
Allen, Adolphus M., Minneapolis, Minn. Oil burner. 1,459,133; June 19.
Allen, Julius L., Sacramento, Calif. Farm tractor. 1,459,608; June 19.
Allen, Louis M., assignor to Western Electric Company, Incorporated, New York, N. Y. Controlling system. 1,459,431; June 19.
Allen, William M. (See Bloom, David, assignor.)
American Can Company. (See Wood, Frederick P., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Laabs, Max A., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Telephone and Telegraph Company. (See Morehouse, Lyman F., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
Andersen, Alfred R., assignor of one-half to J. F. Dominiski, Rock Springs, Wyo. Mounting for mine-car wheels. 1,459,134; June 19.
Anderson, Duncan M., Mainz, Germany. Artificial arm. 1,458,923; June 19.
Anderson, Earl A., Cleveland, Ohio, assignor to General Electric Company. Light fixture. Des. 62,542; June 19.
Anderson, Virgil C., assignor to Federal Generator Association, Seattle, Wash. Vaporizer. 1,459,667; June 19.
Andrews, Edgar J., Rupert, Idaho. Scraper attachment for tractors. 1,459,566; June 19.
Andrews, John G., Murphysboro, Ill. Sanitary soap tray. 1,459,043; June 19.
Andrews, John S., Gary, Ind. Combustion apparatus. 1,459,649; June 19.
Andrews, John S., Gary, Ind. Steam boiler. 1,459,648; June 19.
Ansardi, Adam. (See Gravolet, J. D., and Ansardi.)
Anthony, James T., East Orange, N. J. Washing machine. 1,459,079; June 19.
Apffel, Charles, Cincinnati, Ohio. Knitting machine. 1,459,352; June 19.
Archer, Lenah B., executrix. (See Burrows, Linus P.)
Arkell Safety Bag Company. (See Widmer, Howard G., assignor.)
Arms, Leland J., Berkeley, Calif. Carton for folded tissue paper. 1,459,275; June 19.
Arms Products Company. (See Newton, Richard T., assignor.)
Armstrong, Henry W., New Haven, assignor of one-half to H. Wyman, Plantsville, Conn. Hydraulic jack. 1,459,432; June 19.
Armstrong Siddeley Motors Limited. (See Viale, Spirito M., assignor.)
Arnstein, Hugo, and C. M. Mardel, Oakland, Calif. Movable unloading platform. 1,459,080; June 19.
Ashley, Frank R., Edgewater, Colo. Operating mechanism for awnings. 1,459,009; June 19.
Ashworth, Asa, Salamanca, N. Y. Yarn cleaner. 1,459,135; June 19.
Athey, Isaac H., assignor, by mesne assignments, to Athey Truss Wheel Co., Chicago, Ill. Traction mechanism. 1,458,962; June 19.
Athey Truss Wheel Co. (See Athey, Isaac H., assignor.)
Aultman, Riley J., Ovid, Mich. Tractor. 1,458,963; June 19.
Aurora Steel Products Company. (See Fohn, Adolph E., assignor.)
Austin, Earle R., Breckenridge, Tex. Oil-saving stack for gas-flowing wells. 1,459,461; June 19.
Austin, John H., Albuquerque, N. Mex. Nut cracker, sheller, and separator. 1,459,609; June 19.
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Autosales Corporation. (See Grover, A. D., and Barber, assignors.)
Avery, Arch E., Michigantown, Ind. Fishing reel. 1,459,567; June 19.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,459,492; June 19.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Badische Anilin- & Soda-Fabrik. (See Kačer, Filip, assignor.)
Baille-Barrelle, André H., Paris, France. Manufacture of coke for metallurgical uses. 1,458,964; June 19.
Baldwin, Clarence D. (See Elderton, R., and Baldwin.)
Bambara, Charles F., Chicago, Ill. Washing apparatus. 1,459,136; June 19.
Banan, Horace F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostat. 1,458,924; June 19.
Barab, Jacob, Atlantic City, N. J., assignor to Hercules Powder Company, Wilmington, Del. Detonator. 1,458,925; June 19.
Barber Asphalt Paving Company, The. (See Forrest, C. N., Hayden, and Douthett, assignors.)
Barber, Earl E. (See Grover, A. D., and Barber.)
Barbet, Pierre A., Paris, France. Continuous sulphonation of benzene, applicable to impure benzenes. 1,459,081; June 19.
Barker, Leroy A. (See Maxwell, W., and Barker.)
Barlow, George H., et al. (See Seley, Charles C., assignor.)
Barnett, Edward J. (See Clark, F. H., and Barnett.)
Barr, Sidney U., Brooklyn, N. Y. Window. 1,459,668; June 19.
Barrett, Arthur M., Winnetka, Ill. Lifting truck. 1,459,044; June 19.
Barrick, Donald C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Foundry flask. 1,459,137; June 19.
Bartlett, Harold W., Alvarado, assignor to Continental Salt and Chemical Company, San Francisco, Calif. For preparing salt and the like. 1,459,082; June 19.
Bassett, Robert S., Buffalo, N. Y. Liquid meter. 1,458,965; June 19.
Bassick Manufacturing Company, The. (See Mansel, Charles W., assignor.)
Bauer, Perry S., Chicago, Ill. Tilting steering wheel. 1,459,493; June 19.
Baumann, Karl, Urmston, England, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Air pump for condensers. 1,459,433; June 19.
Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Plaque board. 1,458,966; June 19.
Baxter, William W. (See Hellmann, L. F., and Baxter.)
Becker, Albert W., Windsor, Conn. Electric lamp. 1,459,083; June 19.
Becker, Harry E. (See Robertson, W. J., and Becker.)
Becker, Joseph, West Hoboken, N. J. Attachment for dental articulators. 1,458,967; June 19.
Beckette, Edmund S., East St. Louis, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Drawbar pocket. 1,459,276; June 19.
Beezley, Reginald R., Memphis, Tenn. Decarbonizing torch. 1,458,968; June 19.
Bell, Horace, Erie, Pa. Carrier for containers and the like. 1,459,102; June 19.
Bender, Ernest G., and L. F. Graf, assignors to R. A. Cook, Independence, Iowa. Eye testing device. 1,459,353; June 19.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. 1,459,494; June 19.

Bennett, Augustus A. (See McWhorter, E. D., and Bennett.)
Bennett, Charles C., Los Angeles, Calif. Distance fare or wage chart. 1,459,176; June 19.
Bennett, George W., Cincinnati, Ohio. Gas vent for containers. 1,459,704; June 19.
Bennett, Samuel C. (See Gilman, A. S., Bennett, and Kiesling.)
Bennie, George, Bute, Scotland. System of aerial transport. 1,459,495; June 19.
Bensa, Felice, Genoa, Italy. Oxidizing ammonia and recovering acid as alkali-metal salts. 1,458,969; June 19.
Benson, Cyril L. (See Downey, O. F., and Benson.)
Berens, Conrad, jr., New York, N. Y. Medicine dropper. 1,459,354; June 19.
Berold, Frederick H., Cincinnati, Ohio. Printing plate and making the same. 1,459,669; June 19.
Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. 1,459,388; June 19.
Betts, Benjamin B., St. Louis, Mo. Rail anticreeper. 1,458,970; June 19.
Bevan, Edward J., deceased. (See Cross, C. F., and Bevan.)
Bezanson, Osborne, assignor to Merrimac Chemical Company, Woburn, Mass. Treating acid sludge. 1,459,084; June 19.
Biflex Products Company. (See Ericson, Willard E., assignor.)
Bilhuber, Paul H., Douglaston, N. Y. Tractor board for player pianos and organs. 1,459,355; June 19.
Binkley, Robah J. (See Hartburg, Herman L., assignor.)
Bird, Frank M., Oakland, Calif. Valve-grinding tool. 1,459,356; June 19.
Birdsall, Edwin H., Thornton, Iowa. Foot accelerator. 1,459,317; June 19.
Birdsall, Edwin H., Thornton, Iowa. Radiator air circulation-control device. 1,459,318; June 19.
Black, John S., Olivette, assignor to Simmons Hardware Company, St. Louis, Mo. Knife-polishing machine. 1,459,085; June 19.
Blackwell, Charles, St. Louis, Mo. Metal-casing wheel. 1,458,971; June 19.
Blake, Eliza M., executrix. (See Cross, C. F., and Bevan.)
Blaney, Francis R. (See MacDonald, W. J., Blaney, and MacDonald.)
Blattner, David G., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,459,434; June 19.
Blomquist, August E. R., Cleveland, Ohio, assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Wheel-making machine. 1,459,010; June 19.
Bloom, David, Berkeley, assignor of one-fourth to W. M. Allen, San Francisco, Calif. Closure for containers. 1,459,277; June 19.
Bloss, Guy E., Portland, Oreg. Tire case. 1,459,319; June 19.
Blue, Chilton W., assignor to Janney & Company, Montgomery, Ala. Meter box. 1,459,462; June 19.
Blum, Joseph K., Greenburgh, assignor to K-B Pulverizer Company, Inc., New York, N. Y. Hammer adjustment. 1,459,568; June 19.
Bobeldyk, Marinus, Armour, S. Dak. Indicator for grain spouts. 1,459,463; June 19.
Bock Bearing Company, The. (See Flaherty, John F., assignor.)
Boe, Helmer J., Chicago, and B. J. Egert, Brookfield, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Stop mechanism. 1,459,435; June 19.
Boland, William P. (See Dougherty, John J., assignor.)
Bolens, Harry W., Port Washington, Wis. Chair iron. 1,459,138; June 19.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Metal car roof. 1,459,436; June 19.
Booth, William N., Detroit, Mich. Wheel boring and facing machine. 1,459,011; June 19.
Booze, Macdonald C., assignor to Norton Company, Worcester, Mass. Ceramic article and making the same. 1,459,357; June 19.
Borden Company, The. (See Nonneman, Ira W., assignor.)
Bossbart, John W., and E. W. Mackison, Louisville, Ky. Dust collector. 1,459,610; June 19.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Hosiery and making the same. 1,459,496; June 19.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Hosiery and making the same. 1,459,497; June 19.
Bowman, George S., assignor to M. H. Bowman, James Post Office, Md. Receptacle closure and seal. 1,459,437; June 19.
Bowman, Mary H. (See Bowman, George S., assignor.)
Boyden, John C., Elmwood Place, Ohio. Combined shade-roller and curtain-pole fixture. 1,459,611; June 19.
Boyd, John S. and T. F., assignors to John S. Boyd Co. Inc., Williamstown, Mass. Textile fabric. Des. 62,531; June 19.
Boyd, John S., Co. (See Boyd, John S. and T. F., assignors.)
Boyd, Thomas F. (See Boyd, John S. and T. F.)
Bradley, John W., Buffalo, N. Y. Molder's chaplet. 1,459,464; June 19.
Brand, John M., Columbus, Ohio. Pole support. 1,459,438; June 19.
Brandtjen & Kluge, Incorporated. (See Kluge, Abel and E., assignors.)
Braude, Paul, New York, N. Y. Fire extinguisher. 1,458,972; June 19.
Brauer, Adolph K., deceased; S. D. Brauer, executrix, assignor to S. D. Brauer, Los Angeles, Calif. Lawn and garden sprinkling apparatus. 1,459,012; June 19.
Brauer, Serena D., executrix. (See Brauer, Adolph K.)
Bricker, Abraham H., Brooklyn, N. Y. Trousers. 1,459,498; June 19.
Briggs Manufacturing Company. (See Maise, Herman C., assignor.)
Bristow, John A. (See Wofford, G. M., and Bristow.)
Brook, Albert Z., Mountain Grove, Mo. Match box. 1,459,278; June 19.
Brook, Irvie C. (See Rand, W. M., Brook, and Butler.)
Brown, Herman E., Kingston, N. Y., and J. H. Stover, Nutley, N. J., assignors, by mesne assignments, to Multi-Fabric Corporation, New York, N. Y. Waterproof sheet material and making the same. 1,459,499; June 19.
Brown, Louis C., Sasakwa, Okla. Game appliance. 1,459,389; June 19.
Brown, Oscar E., Buffalo, N. Y. Adjustable chain hook. 1,459,670; June 19.
Brubaker, William A., assignor to The Lyon Rubber Co., Incorporated, Akron, Ohio. Automobile tire. Des. 62,532; June 19.
Bruner, Reuben G., Windsor, Ontario, Canada. Weeder. 1,459,139; June 19.
Brunswick-Balke-Collender Company, The. (See Davenport, H. F., and Whelan, assignors.)
Bruyère, Joanny G. (See Proton, C. A., and Bruyère.)
Buchenberg, Alvin E., assignor to Industrial Research Corporation, Toledo, Ohio. Engine starter. 1,459,358; June 19.
Buckley, Daniel P., assignor, by mesne assignments, to Simonds Saw and Steel Company, Fitchburg, Mass. Saw frame. 1,459,359; June 19.
Buckley, Thomas F., Scranton, Pa. Spring-forming machine. 1,459,045; June 19.
Bufford, George W., Buffalo, assignor to J. H. Williams & Co., Brooklyn, N. Y. Tool holder and tool. 1,458,973; June 19.
Bugatti, Ettore, Molsheim, France. Valve mechanism. 1,459,193; June 19.
Bugbee, Lucian W., Indianapolis, Ind., assignor to American Optical Company, Southbridge, Mass. Grinding machine. 1,459,569; June 19.
Buker, Ray, Castlerock, Wash. Pliers. 1,459,612; June 19.
Bullock, Charles A. H., London, England, assignor of one-third to E. J. Waring, Plainfield, N. J., and one-third to W. E. Stratton, London, England. Appliance for teaching or practicing the game of golf. 1,459,705; June 19.
Burgos, Juan A. X., Manila, P. I. Cushion tire. 1,458,926; June 19.
Burkholder, John H., assignor to Elite Manufacturing Company, Ashland, Ohio. Pawl and ratchet jack. 1,459,194; June 19.
Burnett, Richard W., Chicago, Ill. Hand brake for railway cars. 1,459,650; June 19.
Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix. Forgeable steel as an article of manufacture. 1,459,570; June 19.
Burton, Charles S., Oak Park, Ill. Music-roll container. 1,459,439; June 19.
Burton Page Company, The. (See Shippert, Warren A., assignor.)
Busch, Edward H., Chicago, assignor to Weber Costello Company, Cook County, Ill. Base for terrestrial and celestial globes and the like. Des. 62,543; June 19.
Butcher, Wilfred H., Burwell, Nebr. Calculator. 1,459,279; June 19.
Butler, Frederick C. (See Rand, W. M., Brook, and Butler.)
Butte, Charles F., San Francisco, Calif. Aisle light. 1,459,440; June 19.
Cady, Fred B., Utica, N. Y. Micrometer caliper height and surface gauge. 1,459,500; June 19.
Cain, William H., Los Angeles, Calif. Gas radiator. 1,459,390; June 19.
Card, Calvin G., Los Angeles, Calif. Refrigerator. 1,459,280; June 19.
Carlson, Walter C., Milwaukee, Wis. Advertising stand. Des. 62,544; June 19.
Carper, Charles W., Amma, W. Va. Harrow. 1,459,571; June 19.
Carr, Oscar L., Baton Rouge, La. Headlight plug. 1,459,651; June 19.
Carrier Engineering Corporation. (See Lewis, Leo L., assignor.)
Carrier, Milton L., Centralia, Wash. File holder. 1,459,613; June 19.
Carter, Carnie B., Pittsburgh, Pa., and A. E. Coxe, Chicago, Ill., assignors, by mesne assignments, to S. Karpen & Bros. Producing normal and mixed ethers. 1,459,177; June 19.
Carter, Jacob U., Cardston, Alberta, Canada. Automobile door. 1,459,281; June 19.

Casey-Hedges Co., The. (See Stimmel, Frederick C., assignor.)
Central Scientific Company. (See de Khotinsky, Achilles, assignor.)
Central Talking Machine Shop, Inc. (See Hadley, Walter C., assignor.)
Cesoni, Francesco, and A. Lirussi, Vigevano, Italy. Arrangement for drawing frames in spinning machines. 1,459,572; July 19.
Charlton, Albert J., Lowden, Iowa. Combined cooling and carbureting system for internal-combustion engines. 1,458,974; June 19.
Chemische Fabrik vorm. Goldenberg Geremont & Cie. (See Hamburger, Toni, assignor.)
Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track structure. 1,459,140; June 19.
Chodubski, Leo. (See Czelusniak, T., and Chodubski.)
Clark, Bernard E., et al. (See Walper, Curry O., assignor.)
Clark, Frank H., New York, N. Y., and E. J. Barnett, Chicago, Ill.; said Barnett assignor to said Clark. Throttle valve. 1,459,046; June 19.
Clark, Gilbert, Morpeth, England. Apparatus for ejecting, accelerating, or controlling liquid discharge from bottles and the like. 1,459,282; June 19.
Clausen, Henry P., Mamaroneck, assignor to Western Electric Company, Incorporated, New York, N. Y. Humidity indicating and regulating device. 1,459,391; June 19.
Clauson, William Everett, assignor to The Friendly Service Co., Boston, Mass. Mixing apparatus. 1,458,975; June 19.
Clauss, Edward P., Lyons, N. Y. Angle cock. 1,459,654; June 19.
Cleveland, Arthur, Detroit, Mich. Manually-propelled wagon. 1,459,573; June 19.
Cline, Fred G., Neosho, Mo. Lifting device. 1,459,655; June 19.
Cohen, Louis, Johnstown, N. Y. Windshield cleaner. 1,459,614; June 19.
Colborne Manufacturing Company. (See Smith, Dennis W., assignor.)
Cole, Eugene S., Covington, Pa. Tractor. 1,459,361; June 19.
Cole, Frank H., Chelsea, Mass. Pump. 1,459,360; June 19.
Collins, Charles T., Chicago, Ill., assignor to Donna Lee Perfumed Deodorant Company. Plaque or ornament. Des. 62,559; June 19.
Colombelle, Henri, Le Raincy, France. Portable drilling machine. 1,459,195; June 19.
Commonwealth Steel Company. (See Beckette, Edmund S., assignor.)
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Compagnie Generale d'Electricite. (See Van de Wiel, Fernand, assignor.)
Conroy, Michael T., Akron, Ohio. Tire. 1,459,362; June 19.
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
Consolidated Paper and Box Manufacturing Company. (See Kusterer, Aloysius J., assignor.)
Continental Salt and Chemical Company. (See Bartlett, Harold W., assignor.)
Cook, Frederick H. (See Shoenfelt, C. F., and Cook.)
Cook, George H. (See Shoenfelt, C. F., and Cook.)
Cook, Roy A. (See Bender, E. G., and Graf, assignors.)
Cook, Walter F., Fort Atkinson, Wis. Game. 1,459,615; June 19.
Cooklin, Isaac, Liverpool, England. Dining table. 1,459,086; June 19.
Cooper, Harry W. (See Morrison, W. E., and Korpelainen, assignors.)
Cooper Hewitt Electric Company. (See Flitner, Stanwood E., assignor.)
Cornell, Joseph G., Brooklyn, N. Y. Lazy tongs. 1,459,656; June 19.
Corset, Lucien A. M., Paris, France. Punching machine. 1,459,320; June 19.
Cossitt, Harold R., Alameda, and J. Sinel, San Francisco, Calif., assignors to Ninety Nine Publishing Company, Incorporated, Carson City, Nev. Dice-casting container. 1,459,196; June 19.
Cott, Charles M., Roanoke, Va. Check book and the like. 1,459,702; June 19.
Cover, Harry A., and A. McKinney, Mount Vernon, Ill. Brake device. 1,459,574; June 19.
Cox, Claude E., Detroit, Mich. Recording instrument. 1,459,087; June 19.
Cox, William G., Cleveland, Ohio. End shield for motor vehicles. 1,459,321; June 19.
Cox, William G., Cleveland, Ohio. Shock-absorbing fender. 1,459,652; June 19.
Coxe, Albert E. (See Carter, C. B., and Coxe.)
Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Illuminating weighing scale. 1,459,441; June 19.
Creager, Edwin F., and S. Rogers, Anderson, Ind., assignors to The Remy Electric Company. Coil-winding machine. 1,459,013; June 19.
Crescent Paper Box Factory. (See Levy, Harold M., assignor.)
Crone, Seth A., East Orange, N. J. Railway brake beam. 1,459,141; June 19.
Crosno, Charles R., Albuquerque, N. Mex. Pressure gauge. 1,459,014; June 19.
Cross, Charles F., and E. J. Bevan, deceased; E. M. Blake, executrix, assignors to I. P. M. Syndicate Limited, Westminster, London, England. Treatment of fibrous cellulose for the production of hydrated derivatives. 1,459,616; June 19.
Crossley, Alfred, Washington, D. C. Grounding box for electrical piloting cables. 1,459,047; June 19.
Crossman, Martin R., Boston, Mass. Arch support. 1,459,015; June 19.
Crowell, William de F., St. Louis, Mo. Clear-vision windshield. 1,459,392; June 19.
Cruzen, Calvin L., and C. E. Gay, Lacey, Iowa. Stock waterer. 1,459,142; June 19.
Culp, Franklin M. (See Hudson, G. R., and Culp.)
Culver, Frank L., and G. W. Horjes, Los Angeles, Calif.; said Horjes assignor to said Culver. Spring wheel. 1,459,363; June 19.
Cumfer, Harry A., Chicago, Ill., assignor to Guyton & Cumfer Mfg. Co. Looper. 1,459,048; June 19.
Curran, M. Donovan, Toledo, Ohio. Testing coke. 1,459,143; June 19.
Curtis Coaster Toy Co. (See Griffin, Sidney S., assignor.)
Cushing, Ralph A., Brockton, Mass. Portable power washing machine adaptable to set tubs. 1,459,016; June 19.
Cutler, Samuel C., Brookline, Mass. Air-washing apparatus. 1,459,442; June 19.
Czarnecki, Boleslaw V., Schenectady, N. Y. Bracket. 1,459,364; June 19.
Czelusniak, Tony, and L. Chodubski, Oswego, N. Y. Razor-blade-sharpening machine. 1,459,653; June 19.
Dains, Frank J., Cedar Rapids, Iowa. Automobile bumper. 1,459,365; June 19.
Dajka, Mike, Torrington, Conn. Compressed-air engine-control device. 1,459,575; June 19.
Daniels, George, St. Louis, Mo. Chair. Des. 62,545; June 19.
Das, Pieter, Delft, Netherlands. Electric emergency lighting installation. 1,459,283; June 19.
Date, Goichi, Sublet, Wyo. Attachment for miners' lamps. 1,459,576; June 19.
Davenport, Harmon F., Chicago, Ill., and M. J. Whelan, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Cue. 1,459,144; June 19.
Davis, Arthur, Kidderminster, assignor to Thomas Bond Worth & Sons Limited, Stourport, England. Loom for weaving tufted fabrics. 1,458,976; June 19.
Davis, Ida, San Antonio, Tex. Closure for milk bottles. 1,459,443; June 19.
Davis, Madaline V., assignor of one-half to C. Van Deusen, Milwaukee, Wis. Breast protector. 1,459,145; June 19.
Davison, Frank G. (See Sebell, Harry, assignor.)
Davitt, James E., Groton, N. Y. Eye-shielding attachment for windshields. 1,459,322; June 19.
Dean, Walter K., Erie, Pa. Packing case. 1,459,017; June 19.
Decker, William J., Detroit, Mich. Frame. 1,459,146; June 19.
Declaye, Joseph, Liege, Belgium. Sight for firearms. 1,459,284; June 19.
Declaye, Joseph, Liege, Belgium. Means for securing the barrels of automatic pistols having removable barrels. 1,459,285; June 19.
Declaye, Joseph, Liege, Belgium. Movable breech for automatic pistols. 1,459,286; June 19.
De Escobales, Hilarion, assignor to H. Escobales Co. Inc., New York, N. Y. Package structure and making the same. 1,458,977; June 19.
De Jongh, Bernardus P. J., Breda, Netherlands. Apparatus for sharpening razors. 1,459,617; June 19.
De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Electric heater. 1,459,049; June 19.
Delano, James K., New York, N. Y. Sound recording and reproducing apparatus. 1,459,088; June 19.
Del Castillo, Jose F. (See Diaz, Antonio, assignor.)
De Martini, John W. (See De Martini, Joseph S., and J. W.)
De Martini, Joseph S. and J. W., San Francisco, Calif. Automobile bumper. 1,459,323; June 19.
Dempsey, Thomas G., New York, N. Y. Mixer. 1,459,657; June 19.
Dennis, Alfred A., Grand Rapids, Mich. Sound box. 1,459,577; June 19.
Densmore, Albert A., Boston, Mass. Power-transmission mechanism. 1,459,578; June 19.
De Pfyffer, Paul, Kelowna, British Columbia, Canada. Resilient wheel. 1,459,089; June 19.
Des Moines Hosiery Mills. (See Harlan, Mac., assignor.)
Desmond, J. J., et al. (See Seley, Charles C., assignor.)
Deutsch, Edward I., Milwaukee, Wis. Engine starter. 1,459,618; June 19.
De Ville, Walter, East Liverpool, Ohio. Plate or similar article. Des. 62,546; June 19.
De Ville, Walter, East Liverpool, Ohio. Plate or similar article. Des. 62,547; June 19.
De Ville, Walter, East Liverpool, Ohio. Plate or similar article. Des. 62,548; June 19.

De Ville, Walter, East Liverpool, Ohio. Plate or similar article. Des. 62,549; June 19.
De Ville, Walter, East Liverpool, Ohio. Plate or similar article. Des. 62,550; June 19.
De Wolf, Leon, St. Nicholas, Belgium. Resilient wheel and tire. 1,459,018; June 19.
Diamond Match Company, The. (See Pfersch, Clarence L., assignor.)
Diamond Match Company, The. (See Snyder, Eugene, assignor.)
Diamond Match Company, The. (See Turner, George, assignor.)
Diaz, Antonio, assignor to J. F. Del Castillo, Barcelona, Spain. Suspension of motor cars and other vehicles. 1,459,287; June 19.
Diebold, Leo J., Mount Vernon, Ind. Sliding drawer and lock. 1,459,324; June 19.
Dingman, Elmer, Michigan City, Ind. Milk-bottle closure. 1,459,579; June 19.
Dings, Alvin, assignor to Magnetic Manufacturing Company, Milwaukee, Wis. Magnetic separator. 1,459,147; June 19.
Disston, Henry, & Sons. (See Himes, Joseph, assignor.)
Dockson, Charles H., Detroit, Mich. High-pressure regulator. 1,459,501; June 19.
Dodd, Jacob E., Orange, Tex. Pipe. 1,459,619; June 19.
Dodge Brothers. (See Huff, Russell, assignor.)
Dominiski, Joe F. (See Andersen, Alfred R., assignor.)
Domoto, Takanoshin, San Francisco, Calif. Wash wringer. 1,459,444; June 19.
Donaldson, Charles A., San Antonio, Tex. Steering wheel. 1,459,090; June 19.
Donna Lee Perfumed Deodorant Company. (See Collins, Charles T., assignor.)
Dooley, Patrick J. (See Finton, Thomas J., assignor.)
Doren, William A., Newark, Ohio, assignor to Holophane Glass Co. Inc., New York, N. Y. Illuminating appliance. 1,459,325; June 19.
Dorn, John A., Mobile, Ala. Bedspring. 1,459,620; June 19.
Dougherty, John J., assignor of one-half to W. P. Boland, Scranton, Pa. Chain-link shoe. 1,459,091; June 19.
Douthett, Orin R. (See Forrest, C. N., Hayden, and Douthett.)
Dow, Fred T., Bangor, Me. Apparatus for and method of drying or otherwise treating material. 1,459,326; June 19.
Downey, Oscar F., and C. L. Benson, Chestnut, Ill. Sharpening machine for shears. 1,459,580; June 19.
Draper, Charles D., Portland, Oreg. Flexible varnish. 1,459,581; June 19.
Drevitson, Carl B., Somerville, Mass. Skate and making the same. 1,459,050; June 19.
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Foundry flask. 1,459,197; June 19.
Dubee, Adelard J., Glens Falls, N. Y. Brush and mop holder. 1,459,582; June 19.
Dunajeff, Leonid A., New York, N. Y. Projectile. 1,459,198; June 19.
Du Pont, E. I., de Nemours & Company. (See Moran, Robert C., assignor.)
Easterwood, Joseph A. (See Trapnell, W. E., and Easterwood.)
Edstrom, Otto E., Chicago, Ill. Adjustable wrench. 1,459,583; June 19.
Egert, Benjamin J. (See Boe, H. J., and Egert.)
Eggers, Clarence C. C., Hooper, Nebr. Torch. 1,459,658; June 19.
Ehrenberg, Carl. (See Wiederhold, H., and Ehrenberg.)
Elderton, Robert, and C. D. Baldwin, Independence, Iowa. Clamp. 1,459,445; June 19.
Elite Manufacturing Company. (See Burkholder, John H., assignor.)
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Ellis, Howard, P. S. Hast, and W. G. Nunnelly, New Florence, Mo. Electrolyte for storage batteries. 1,459,659; June 19.
Ellis, James G., St. Lambert, and G. W. Mingie, Montreal, Quebec, Canada. Fire grate for locomotives. 1,459,288; June 19.
Ellis, William H. (See Koenig, J., and Ellis.)
Emond, Robert A. (See Hockaday, John K., assignor.)
Ericson, Emile, Pelham, and R. Weiss, New York, N. Y., assignors to The Pennsylvania Textile Mills Inc., Glenriddle, Pa. Textile fabric. Des. 62,533; June 19.
Ericson, Willard E., Evanston, assignor to Bidex Products Company, Waukegan, Ill. Bumper-attaching bracket. 1,458,927; June 19.
Ericsson, Otto J., Warren, Pa. Lock mechanism. 1,459,584; June 19.
Escobales, H., Co. Inc. (See de Escobales, Hilarion, assignor.)
Esnault-Pelterie, Robert, Paris, France. Motor system with direct transmission. 1,459,019; June 19.
Etheridge, James H., assignor to Etheridge Printing Company, Dallas, Tex. Envelope folder. 1,459,092; June 19.
Etheridge Printing Company. (See Etheridge, James H., assignor.)
Eureka Metallurgical Company. (See Smith, Reinold V., assignor.)
Eureka Rough Dry Pin System Co. (See Hanney, Angus F., assignor.)
Evitt, Harry G. (See Parker, E. A., and Evitt.)
Eytchison, Purly B., Mitchell, Nebr. Stapling machine. 1,459,020; June 19.
Fancher, Ray C., Utica, N. Y. Pressure regulator and cut-off for inflating tubes. 1,458,928; June 19.
Federal Generator Association. (See Anderson, Virgil C., assignor.)
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Federal Telegraph Company. (See McCaa, David G., assignor.)
Felten, Abram V., assignor to The New England Metal Barrel Corporation, Danbury, Conn. Machine for making retaining rings for receptacle closures. 1,459,660; June 19.
Felton, Joseph A., Atlanta, Ga. Plumbing system. 1,459,585; June 19.
Fenn, Ray, Providence, assignor to Hemphill Company, Central Falls, R. I. Inturned-welt-knitting machine. 1,459,446; June 19.
Fenton, Oscar T., Hightstown, N. J. Safety catch. 1,459,526; June 19.
Ferm, Peter L., Kansas City, Mo. Fountain brush. 1,459,021; June 19.
Fernekes, Irvin J., Chicago, Ill. Railway switch and rail. 1,459,022; June 19.
Ferris, Howard J., Harvard, Ill. Wheel for coaster wagons. 1,459,527; June 19.
Finton, Thomas J., Springfield, assignor to P. J. Dooley, Holyoke, Mass. Mop. 1,459,525; June 19.
Fitz, Charles L., Fond du Lac, Wis. Signal. 1,459,586; June 19.
Flaherty, John F., assignor to The Bock Bearing Company, Toledo, Ohio. Roll-gauging machine. 1,458,929; June 19.
Flaherty, John F., assignor to The Bock Bearing Company, Toledo, Ohio. Spindle-driving mechanism. 1,458,930; June 19.
Flath, Otto S., Chicago, Ill. Storage tanks. 1,459,327; June 19.
Fletcher, Henry P. (See Gosper, Amos, assignor.)
Fletcher, John F. (See Whitney, G. M., and Fletcher.)
Flitner, Stanwood E., Englewood, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Packing device. 1,459,300; June 19.
Flynt, Anthony L., Philadelphia, Pa. Mixing and beating device. 1,459,148; June 19.
Foard, Robert H., Cleveland, N. C. Veneer-cutting-machine spur bit and block. 1,459,587; June 19.
Fohn, Adolph E., Montgomery, assignor to Aurora Steel Products Company, Aurora, Ill. Switchbox. 1,459,502; June 19.
Folsche, Karl, Halle-on-the-Saale, Germany. Process and device for emptying beetroot silos. 1,459,621; June 19.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Ribbon mechanism for typewriting machines. 1,459,199; June 19.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Spacing mechanism. 1,459,200; June 19.
Ford Motor Company. (See Galamb, Joseph, assignor.)
Forest Products Company. (See Hice, Robert L., assignor.)
Forrest, Charles N., Rahway, H. P. Hayden, Raritan Township, Middlesex County, N. J., and O. R. Douthett, Beaver Falls, Pa., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa. Gilsonitic products. 1,459,328; June 19.
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming annular bodies. 1,458,931; June 19.
Freeman, John, assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y. Convertible furniture. 1,459,201; June 19.
Freeman, Victor E., et al. (See Kreipe, Theodore, assignor.)
French, Elsamur S., Denver, Colo. Clamp. 1,459,093; June 19.
French, Elsamur S., Denver, Colo. Clamp. 1,459,094; June 19.
French, Laurence E., Sebastopol, Calif. Automatic cut-off for oil burners. 1,459,149; June 19.
Friendly Service Co., The. (See Clauson, William, assignor.)
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Fire extinguisher. Des. 62,534; June 19.
Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Sensitizing the telephone. 1,459,202; June 19.
Futterman, Benjamin. (See Sprague, Sidney, assignor.)
Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Starting switch. 1,459,051; June 19.
Gallager, Albert J. (See Laise, C. A., and Gallager.)
Gallucci, Oreste, Cleveland, Ohio. Sanitary garbage can. 1,459,622; June 19.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Windowpane-fastening strip. 1,459,095; June 19.
Garbis, Spiro D., Calcutta, British India. Mouthpiece for receptacles to contain liquids and means for sealing the same. 1,458,932; June 19.

Gardiner, John R., Fullerton, Calif. Interchangeable cultivating and trench-forming apparatus. 1,459,393; June 19.
Gaston, Audley D., Sarnia, Ontario, Canada. Fluid-distributing manifold. 1,459,150; June 19.
Gavlak, Joseph G., Monongahela, Pa. Spark plug. 1,459,447; June 19.
Gay, Clarence E. (See Cruzen, C. L., and Gay.)
Gemayel, Joseph. (See Linké, Charles, assignor.)
General Electric Company. (See Anderson, Earl A., assignor.)
General Tire and Rubber Company, The. (See Iredell, Robert, assignor.)
General Tire & Rubber Company, The. (See O'Neil, William, assignor.)
Gent, Edgar W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Centrifugal governor. 1,459,394; June 19.
Gentzel, Perry H., Newton, Mass. Oil atomizer. 1,459,448; June 19.
Gerrard, Alec J., and P. Wright, Chicago, Ill. Machine for making bale ties. 1,459,623; June 19.
Gibbons, James W., Boston, Mass. Ash receiver. 1,459,096; June 19.
Gilman, Arthur S., S. C. Bennett and F. W. Kiesling, assignors to The A. S. Gilman Printing Company, Cleveland, Ohio. Manifold printed form. 1,459,151; June 19.
Girot, Leo A., Oakland, Calif. Rope fastener. 1,459,329; June 19.
Glover, Rex C., Flint, Mich. Radiator construction. 1,459,503; June 19.
Glowacki, John B., Chicago, Ill. Fuse plug. 1,459,203; June 19.
Good Inventions Co. (See Good, John, assignor.)
Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Combustion-engine oil purifier. 1,459,301; June 19.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodwin Car & Mfg. Company. (See Van Scoy, Howard, assignor.)
Gosper, Amos, Banksia, near Sydney, assignor to H. P. Fletcher, Sydney, New South Wales, Australia. Expanding auger. 1,459,366; June 19.
Graf, Louis F. (See Bender, E. G., and Graf.)
Graham, Lillian, Philadelphia, Pa. Scouring device. 1,459,152; June 19.
Grant, Perry M. (See Holmes, Garnet B., assignor.)
Graupe, William, assignor to Hospital Supply Company and Watters Laboratories, Consolidated, New York, N. Y. Adjustable knee support. 1,458,933; June 19.
Gravolet, Joseph D., and A. Ansardi, Phoenix, La. Animal trap. 1,459,661; June 19.
Greenburg, Andrew. (See Greenburg, Rudolph P. and A.)
Greenburg, Rudolph P. and A., Glastonbury, Conn. Guard for oil ranges. 1,459,624; June 19.
Greene, Stanley K. (See Young, William R., assignor.)
Gregg, William H. (See Hachmann, Frederick, assignor.)
Greisch, Nicholas, Milwaukee, Wis. Demountable-rim fastener. 1,459,204; June 19.
Griesemer, Abraham R., San Francisco, Calif. Hydraulic ejector. 1,459,153; June 19.
Griffin, Sidney S., assignor to Curtis Coaster Toy Co., Seattle, Wash. Sled. 1,459,528; June 19.
Griffiths, Thomas, Kensington, Liverpool, England. Pneumatic tire. 1,459,529; June 19.
Grobe, Walter W., Hamilton, Ohio. Thimble construction. 1,459,530; June 19.
Grover, Albert D., New York, N. Y., and E. E. Barber, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation. Vending machine. 1,459,504; June 19.
Gruzier, Leopolt, Chicago, Ill. Electric signal for gasoline tanks. 1,459,154; June 19.
Guest, Albert H., Stourbridge, England. Match stand, inkstand, ash bowl, and the like article. 1,459,023; June 19.
Guimont, Joseph W., assignor of one-half to M. Langlois, Montreal, Quebec, Canada. Welding radiators. 1,458,934; June 19.
Guiline, Henry L., Montreal, assignor of one-half to J. Hyde, Westmount, Quebec, Canada. Mounting for advertisements, calendars, and pictures. 1,459,052; June 19.
Gulliver, Arthur P., Brockton, Mass. Pipe-cleaning device. 1,459,625; June 19.
Gunderson, Joseph C., Grand Forks, N. Dak. Envelope-feeding attachment. 1,459,179; June 19.
Gustafson, Gottfried, Brooklyn, N. Y. Pump for boat-propelling devices. 1,459,330; June 19.
Guth, Frederick A. (See Guth, Harold F., assignor.)
Guth, Harold F., London, assignor to F. A. Guth, Columbus, Ohio. Gate. 1,459,505; June 19.
Guttman, Hyman, New York, N. Y. Knitted fabric. Des. 62,551; June 19.
Guttman, Hyman, New York, N. Y. Knitted fabric. Des. 62,552; June 19.
Guyton & Cumfer Mfg. Co. (See Cumfer, Harry A., assignor.)
Habenicht, Charles A., Modesto, Calif. Lock. 1,459,290; June 19.
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Sales-book cover. 1,459,506; June 19.
Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. Re15,629; June 19.
Hall, Arthur J., Winchcombe, England, and P. L. Mardis, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control system and apparatus. 1,458,935; June 19.
Hall, Lewis L., Clendenin, W. Va. Wrench. 1,459,291; June 19.
Halpern, Emanuel, New York, N. Y. Voice for dolls. 1,459,053; June 19.
Hamburger, Toni, Berlin-Dahlem, assignor to Chemische Fabrik vorm. Goldenberg Geromont & Cie., Wiesbaden, Germany. Purifying lactic acid. 1,459,395; June 19.
Hamilton, Maurice E., New York, N. Y., and W. H. Johnson, Terre Haute, Ind. Automatic train-speed control. Re15,633; June 19.
Hammersley Manufacturing Company, The. (See Hatch, Raymond S., assignor.)
Hanna Engineering Works. (See Krause, William P., assignor.)
Hanney, Angus F., assignor to Eureka Rough Dry Pin System Co., Chicago, Ill. Laundry-sorting appliance. 1,459,205; June 19.
Hansen, Morten F., New Auburn, Wis. Planter. 1,459,097; June 19.
Hanson, Emil J., Viroqua, Wis. Combination tool. 1,459,531; June 19.
Harden, James A., Ada, Okla. Boll-weevil exterminator. 1,459,626; June 19.
Hardinge, Henry H., Chicago, Ill. Plane. 1,459,206; June 19.
Harlan, Mac, assignor to Des Moines Hoisery Mills, Des Moines, Iowa. Exhibitor for goods. 1,459,532; June 19.
Harley-Davidson Motor Co. (See Harley, William S., assignor.)
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Distributor cap or the like. 1,459,671; June 19.
Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)
Hart Brothers. (See Rocheleau, Alphonso, assignor.)
Hart, Charles W., Charles City, Iowa. Harvesting grain. 1,458,936; June 19.
Hart, Charles W., Milwaukee, Wis. Tractor-wheel fluke. 1,458,937; June 19.
Hart, Pearly S. (See Ellis H., Hart, and Nunnelly.)
Hartburg, Herman L., Denver, Colo., assignor of one-half to R. J. Binkley. Heat-exchange apparatus. 1,459,024; June 19.
Hatch, Raymond S., Nutley, N. J., assignor to The Hammersley Manufacturing Company, New York, N. Y. Wrapping machine. 1,459,054; June 19.
Hawes, Newell H., Arlington, assignor to Wm. F. Schrafft & Sons, Corporation, Boston, Mass. Article-feeding device. 1,459,367; June 19.
Hawley, Agnes M., assignor to Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candleholder. Des. 62,553; June 19.
Hayden, Harold P. (See Forrest, C. N., Hayden, and Douthett.)
Heggelund, Ragnar O., Lake Preston, S. Dak. Insect destroyer. 1,459,396; June 19.
Hein, George N., San Francisco, Calif. Sun and glare shade for vehicles. 1,459,180; June 19.
Heine, Frederick J., Huntington, Mass. Reed hook. 1,459,465; June 19.
Heise, William H. (See Schurch, Jacob, assignor.)
Heister, Louis H., jr. (See Walther, Adolph F., assignor.)
Hellmann, Lui F., and W. W. Baxter, assignors to Air Brake Safety Appliance Company, Indianapolis, Ind. Automatic safety control for air-brake systems. 1,459,098; June 19.
Hellmann, Lui F., and W. W. Baxter, Indianapolis, Ind. Automatic brake lock. 1,459,099; June 19.
Heltzel, John N., Warren, Ohio. Concrete form. 1,459,207; June 19.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Pivot retainer. 1,459,449; June 19.
Heming, Edward F., Swan River, Manitoba, assignor of one-fourth to J. M. Iredale, Winnipeg, Manitoba, Canada. Coal chute. 1,458,978; June 19.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Penn, Ray, assignor.)
Hemphill Company. (See Hineline, Edson S., assignor.)
Hemphill Company. (See Lawson, Robert H., assignor.)
Hendrickson, Niels E., assignor to The Mather Spring Co., Toledo, Ohio. Spring manufacture. 1,459,208; June 19.
Henning, Fredrick G., Brooklyn, N. Y. Safety gas hose. 1,459,100; June 19.
Henshaw, George C., and W. H. Myers, Ranger, Tex. Automatic packer, flowhead, and pumping device. 1,459,368; June 19.
Hercules Powder Company. (See Barab, Jacob, assignor.)
Hering, Emil R., Cleveland, Ohio. Means employed in bookkeeping. 1,459,331; June 19.
Herrmann, Max, New York, N. Y. Rotary lime-burning kiln. 1,459,302; June 19.
Herrmann, Raymond R., assignor to Western Electric Company, Incorporated, New York, N. Y. Self-induction coil. 1,459,397; June 19.

Heyman, Knut W., Stockholm, Sweden. Knife sharpener. 1,458,938; June 19.
Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard Process Corporation, New York, N. Y. Puddling furnace. 1,459,533; June 19.
Hibbard Process Corporation. (See Hibbard, Henry D., assignor.)
Hice, Robert L., Montgomery, Ala., assignor to Forest Products Company. Making automobile chock blocks. 1,459,055; June 19.
Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
Hifner, Annie M., assignor to N. T. Hifner, Lexington, Ky. Apron. 1,459,101; June 19.
Hifner, Nancy T. (See Hifner, Annie M., assignor.)
Hilker, Anthony H., Fort Wayne, Ind. Woodworking tool. 1,459,534; June 19.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Glass cutter. 1,459,369; June 19.
Himes, Joseph, assignor to Henry Disston & Sons, Seattle, Wash. Planer knife. 1,459,398; June 19.
Hineline, Edson S., Providence, R. I., assignor to Hemphill Company, Central Falls, R. I. Means for maintaining uniform the tension upon yarn or thread. 1,459,332; June 19.
Hiorth, Albert, Asker, near Christiania, Norway. Process and apparatus for performing thermic processes of any kind. 1,459,627; June 19.
Hipwood, George, New York, N. Y. Crutch. 1,459,333; June 19.
Hird, William, Cuba City, Wis. Hog trough. 1,459,535; June 19.
Hirsch, Herbert S., Newark, N. J. Collapsible display box. 1,459,399; June 19.
Hockaday, John K., assignor of one-half to R. A. Emond, Birmingham, Ala. Refreshment booth for motorists. 1,459,628; June 19.
Hocker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-emitting cathode and making the same. 1,459,400; June 19.
Hodge, Thomas A., Franklin, Ind. Cooker. 1,459,466; June 19.
Hoffman, Edmund, Brooklyn, N. Y. Closure for receptacles. 1,459,588; June 19.
Hoffman, Edmund, Brooklyn, N. Y. Closure for receptacles. 1,459,589; June 19.
Holmes, Garnet B., Los Angeles, assignor of one-half to P. M. Grant, Venice, Calif. Automobile hood rest. 1,459,370; June 19.
Holophane Glass Co. (See Dorey, William A., assignor.)
Hook, C. Howard. (See Miller, Arnold W., assignor.)
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Horjes, George W. (See Culver, F. L., and Horjes.)
Hospital Supply Company, et al. (See Graupe, William, assignor.)
Hottel, Louis W., Chicago, Ill. Reenforced ribbed pneumatic tube. 1,459,401; June 19.
Hough, Earl B., assignor to G. M. Peters, trustee, Chicago, Ill. Dumping gear. 1,459,209; June 19.
House, Samuel G., Miami, Fla. Liquid-fuel vaporizer. 1,459,507; June 19.
Housworth, Augusta C., Mason City, Ill. Polishing composition. 1,459,056; June 19.
Howard, Charles E., Anaconda, Mont. Grate. 1,459,467; June 19.
Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Multiple-unit bearing. 1,459,468; June 19.
Howe, George A., and J. L. Kosmann, Pittsburgh, Pa. Bottle filling machine. 1,458,979; June 19.
Hudson, George R., Portland, and F. M. Culp, Corvallis, Oreg. Tire changer. 1,459,303; June 19.
Huff, Russell, assignor to Dodge Brothers, Detroit, Mich. Service brake. 1,459,304; June 19.
Hughes, Howard R., Houston, Tex. Load indicator. 1,459,102; June 19.
Hughes, Robert E., jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 1,459,103; June 19.
Hume, John T., assignor to Hurley Machine Company, Chicago, Ill. Vacuum cleaner. 1,458,939; June 19.
Hurley Machine Company. (See Hume, John T., assignor.)
Hutchins, William H., assignor to North East Electric Company, Rochester, N. Y. Engine starter. 1,459,025; June 19.
Hutchinson, Ely C., Oakland, assignor to Pelton Water Wheel Co., San Francisco, Calif. Runner construction for pelton wheels. 1,459,672; June 19.
Hyde, John. (See Gulline, Henry L., assignor.)
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Weatherproof electric heater. 1,458,940; June 19.
I. P. M. Syndicate Limited. (See Cross, C. F., and Bevan, assignors.)
Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
Industrial Research Corporation. (See Buchenberg, Alvin E., assignor.)
Industrial Research Limited. (See Wiederhold, H., and Ehrenberg, assignors.)
International Corset Company. (See Schopbach, Charles H., assignor.)
Ioor, John P., Philadelphia, Pa. Window screen. 1,459,135; June 19.
Iowa Can Company. (See Loufek, Joseph, assignor.)
Iredale, James M. (See Heming, Edward F., assignor.)
Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Resilient tire. Des. 62,536; June 19.
Irey, John H., Muscatine, Iowa, assignor to Portable Elevator Mfg. Co., Bloomington, Ill. Wall structure for corncribs and the like. Re15,630; June 19.
Jabner, Louis, Jersey City, N. J. Clasp. 1,459,673; June 19.
Jabner, Louis, Jersey City, N. J. Clasp. 1,459,674; June 19.
James, Edward E., San Francisco, Calif. Hot-slag receptacle. 1,459,675; June 19.
Jameson, Clarence W., Lombard, Ill. Apparatus for testing the fading action of light. 1,458,941; June 19.
Janney & Company. (See Blue, Chilton W., assignor.)
Jenkins Brothers. (See Yardley, Farnham, assignor.)
Johns, William H., Kingsport, Tenn. Heating apparatus for leaches. 1,459,629; June 19.
Johnson, Charles E., Philadelphia, Pa. Stove top. 1,459,210; June 19.
Johnson, Herbert S., Nuneaton, England. Lamp. 1,459,104; June 19.
Johnson, Peter A., assignor to T. V. Standifer, Portland, Oreg. Screw-bolt-nut-tightening means. 1,459,402; June 19.
Johnson, Smith M., Middlefield, Ohio. Pail closure. 1,459,469; June 19.
Johnson, William H. (See Hamilton, M. E., and Johnson.)
Jones, Jesse G., East Ham, England. Bridge for stringed musical instruments. 1,459,057; June 19.
Judd, Morton F., Stratford, assignor to The Raybestos Company, Bridgeport, Conn. Transmission and brake mechanism. 1,459,470; June 19.
Junker, Anthony, Gloversville, N. Y. Stocking. 1,459,590; June 19.
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
K-B Pulverizer Company. (See Blum, Joseph K., assignor.)
Kaćer, Filip, Manheim, assignor to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of vat coloring matters. 1,459,536; June 19.
Kalisz, Steve, Chicago, Ill. Drier. 1,459,211; June 19.
Kapatas, Gregore K., Providence, R. I. Roving stop motion for spinning frames. 1,458,980; June 19.
Karpen, S., & Bros. (See Carter, C. B., and Coxe, assignors.)
Kath, Willy, Berlin-Friedenau, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Rate-of-flow indicators for Venturi meters. 1,459,212; June 19.
Kawasaki, Utakichi, San Francisco, Calif. Means for preventing drafts in doorways. 1,459,508; June 19.
Keckler, Charles W., Newark, and W. B. Strickler, East Orange, N. J., assignors to Western Electric Company Incorporated, New York, N. Y. Signaling system. 1,459,403; June 19.
Kegler, John J., Cedar Rapids, Iowa. Bromo-seltzer dispenser. 1,458,942; June 19.
Kelnath, Georg, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electric measuring appliance. 1,459,213; June 19.
Kelleher, Rose I., San Francisco, Calif. Copy holder. 1,459,334; June 19.
Keller, James D., Detroit, Mich. Harness saddle. 1,459,214; June 19.
Keller, Mary A., Winona, Minn. Cooking stove. 1,458,981; June 19.
Kelly, Andrew J., assignor of one-half to J. I. Kelly, Baltimore, Md. Convertible vehicle. 1,459,371; June 19.
Kelly, John I. (See Kelly, Andrew J., assignor.)
Kelsey Wheel Company. (See Blomquist, August E. R., assignor.)
Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiplex signaling. 1,459,709; June 19.
Kendall, Edwin J., Beaver Cove, British Columbia, Canada. Sanitary soap box. 1,458,982; June 19.
Kennedy, Joseph E., New York, N. Y. Crushing apparatus. 1,459,305; June 19.
Kern, Maximilian H., Ridgewood, N. Y., assignor to Roberts Numbering Machine Company. Wheel-printing machine. 1,459,215; June 19.
Kiesling, Fred W. (See Gilman, A. S., Bennett, and Kiesling.)
Kimball, Frank I., assignor to Sargent & Company, New Haven, Conn. Floor scraper. 1,459,216; June 19.
King, Clinton S., Edgewood, R. I. Armrest for banjos. 1,459,591; June 19.
King, Lea M., Morristown, Tenn. Coupling mechanism for train pipes. 1,459,537; June 19.
Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
Kinney, J. Stanley, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bushing. 1,458,943; June 19.

Kirby, William K., Golden, Colo. Process and apparatus for treating oil shales. 1,458,983; June 19.
Kirkpatrick, William L. (See O'Flaherty, L. F. and Kirkpatrick.)
Kirsten, Friedrich, Celle in Hanover, Germany. Grinding or sharpening device for razor blades. 1,459,676; June 19.
Kistner, Charles E., Cincinnati, Ohio. Reflector for lights. 1,459,372; June 19.
Klatt, Joseph, assignor to W. W. Wilcox Mfg. Co., Chicago, Ill. Card register. 1,459,538; June 19.
Klebba, Eileen M., Minneapolis, Minn. Toilet case. 1,459,181; June 19.
Klein, Emil A., Los Angeles, Calif. Fumigation tent. 1,459,217; June 19.
Kleffman, John. (See Kleffman, Ray C., assignor.)
Kleffman, Ray C., Chicago, Ill., assignor of one-third to J. Kleffman, Hibbing, Minn. Supporting device. 1,459,404; June 19.
Kluge, Abel and E., assignors, by mesne assignments, to Brandtjen & Kluge, Incorporated, St. Paul, Minn. Gauge for printing presses. 1,459,105; June 19.
Kluge, Eneval. (See Kluge, Abel and E.)
Knaak, George A., Milwaukee, Wis. Controlling apparatus. 1,459,218; June 19.
Knerr, Hugh J., U. S. Army. Gasoline-consumption indicator for motor vehicles. 1,459,106; June 19.
Knibbs, Norman V. S., London, England. Distillation and cracking of mineral oils and other hydrocarbon-containing material. 1,459,156; June 19.
Knöfel, Heinrich, Frankfort-on-the-Main, Germany. Apparatus for removing blast gases from water-gas generators. 1,459,058; June 19.
Knothe, Paul J., Fort Wayne, assignor to Montpelier Manufacturing Company, Montpelier, Ind. Cup packing for pumps and the like. 1,459,509; June 19.
Knutzon, Henry K., Thor, Iowa. Burial-vault temporary handle lock. 1,459,219; June 19.
Kocher, Charles E., Detroit, assignor to The Wyandott-Mor-Powr Truck Company, Wyandotte, Mich. Transmission mechanism. 1,459,026; June 19.
Kodama, Isami, Philadelphia, Pa. Fuel device for internal-combustion engines. 1,459,306; June 19.
Koehler, Dell, San Francisco, Calif. Fluid turbine. 1,459,510; June 19.
Koenig, Joseph, and W. H. Ellis, Two Rivers, Wis. Percolator. 1,459,289; June 19.
Kohlmann, John D., Milwaukee, Wis. Combined milling and turning machine. 1,458,944; June 19.
Kohn, Jacob, New York, N. Y. Hanger. 1,459,471; June 19.
Koretsky, Harry M. (See Teitelbaum, Boris H., assignor.)
Korpelainen, Kelle. (See Morrison, W. E., and Korpelainen.)
Kosmann, Julius L. (See Howe, G. A., and Kosmann.)
Krantz, Hermann, Memmingen, Germany. Refining organic matter used as manure. 1,459,059; June 19.
Krause, John J., Portage, Pa. Ship siren. 1,459,220; June 19.
Krause, Lou, New York, N. Y., assignor to Slyt Edge Company, Inc. Means for making fringe for ladies' hats. 1,459,472; June 19.
Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Molding machine. 1,459,221; June 19.
Kreipe, Theodore, Floral Park, assignor to V. E. Freeman and L. P. Whitaker, New York, N. Y. Flax-harvesting machine. 1,459,060; June 19.
Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
Krentler, Walter A., Detroit, Mich., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Combined link and hinge last. 1,459,061; June 19.
Kritikson Bros., Inc. (See Peters, Stanley E., assignor.)
Krol, Andy, Uniontown, Pa. Animal trap. 1,459,027; June 19.
Kruesheld, Henry, New Washington, Ohio, assignor to The Perfection Electric Products Co. Electric cooking utensil. 1,459,539; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage-twisting device. 1,459,062; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage linking and twisting device. 1,459,063; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage-twisting device. 1,459,064; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage-twisting device. 1,459,065; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage-twisting device. 1,459,066; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Sausage-twisting machine. 1,459,067; June 19.
Kruse, Ferdinand, New York, N. Y. Sausage-twisting machine. 1,459,068; June 19.
Kruse, Ferdinand, Port Richmond, N. Y. Method and machine for forming sausages. 1,459,069; June 19.
Kruskopf, Hermann, Dortmund, Germany. Method of and means for extinguishing or smothering explosions in mines. 1,459,677; June 19.
Kruttschnitt, Julius, New Canaan, Conn. Reenforced-concrete railway tie. 1,458,945; June 19.
Kruttschnitt, Julius, New Canaan, Conn. Reenforced-concrete railway tie. 1,458,946; June 19.
Kunkel, Thomas C., Madrid, Nebr. Screened drain. 1,458,984; June 19.
Kusterer, Aloysius J., assignor to Consolidated Paper and Box Manufacturing Company, Richmond, Va. Binder-blank-shaping mechanism. 1,459,107; June 19.
Kuzmann, Alexander, Philadelphia, Pa. Cranking device. 1,459,222; June 19.
Laabs, Max A., assignor to American Optical Company, Southbridge, Mass. Lens. 1,459,373; June 19.
Labenz, Ernst, Detroit, Mich. Sectional mattress. 1,459,540; June 19.
Laise, Clemens A., Weehawken, and A. J. Gallager, West Orange, N. J. Electric heating unit. 1,459,307; June 19.
Lane, Fred A., Shelburn, Ind. Tire carrier. 1,459,473; June 19.
Langlois, Mendoza. (See Guimont, Joseph W., assignor.)
Lanzerotti-Spina, Ettore, Bayswater, London, England. Internal combustion engine. 1,459,630; June 19.
Lanzius, Evelyn E. F., executrix. (See Lanzius, George.)
Lanzius, George, deceased, New York, N. Y.; E. E. F. Lanzius, executrix. Elastic shaft connection. 1,459,223; June 19.
Latta, James D. (See Latta, John and J. D.)
Latta, John and J. D., Ayr, Scotland. Die-forging hammer. 1,459,592; June 19.
Lawson, Robert H., assignor to Hemphill Company, Central Falls, R. I. Knitting machine and forming reenforcements. 1,459,157; June 19.
Lee, Elmer J., Bangor, Pa. Timer. 1,459,678; June 19.
Leeds, Hosmer W., Seligman, Ariz. Car ventilator. 1,459,405; June 19.
Leitner, Henry, London, England. Metal propeller. 1,459,335; June 19.
Lennox, Talbot, Marshalltown, Ia. Machine for forming sheet-metal baskets. 1,459,224; June 19.
Leveque, Bernard T., Wenham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. 1,459,374; June 19.
Levy, Harold M., assignor to Crescent Paper Box Factory, New Orleans, La. Paper box. 1,459,225; June 19.
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Oiling device. 1,459,679; June 19.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Lewis, Frank D. (See Widmann, E. A., and Lewis.)
Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. 1,459,406; June 19.
Lewis, George S., assignor to Page-Lewis Arms Company, Chicopee Falls, Mass. Firearm. 1,459,108; June 19.
Lewis, Leo L., Plainfield, assignor to Carrier Engineering Corporation, Newark, N. J. Air-conditioning apparatus. 1,458,985; June 19.
Liedstrand, Karl E. L., Stockholm, Sweden. Machine for effecting slots in cards for statistic or similar purposes. 1,459,407; June 19.
Lind, John, Clearwater, Idaho. Gate and operating mechanism therefor. 1,459,631; June 19.
Lindauer, Alfred C., Madison, Wis., dedicated, by mesne assignments, to the people of the United States. Blood-albumin glue. 1,459,541; June 19.
Linde, Erick D., Burdick, Kans. Radiator cover. 1,459,593; June 19.
Lindell, Gustave, Pictou, Nova Scotia, Canada. Safety-razor-blade holder. 1,459,028; June 19.
Link, Walter, Ajo, Ariz. Testing device for flash-light batteries and lamps. 1,459,336; June 19.
Linké, Charles, assignor of one-half to J. Gemayel, Paris, France. Burner for liquid combustibles. 1,459,226; June 19.
Lirussi, Arturo. (See Cesoni, F., and Lirussi.)
Lisse, Leopold, Berlin, Germany. Apparatus for generating respirable air from liquefied gases. 1,459,158; June 19.
Lloyd, William A. (See Plitt, W. R., and Lloyd.)
Lockett, Andrew M., New Orleans, La. Water heater with percolator. 1,459,408; June 19.
Loose Wiles Biscuit Company. (See Macdonald, George C., assignor.)
López, Jesús M., San Antonio, Tex. Roller distributor. 1,459,109; June 19.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 62,554; June 19.
Loufek, Joseph, assignor to Iowa Can Company, Keokuk, Iowa. Paper carton. 1,459,110; June 19.
Lovejoy, Andrew W., Kansas City, Mo. Tool-box attachment for motor cars. 1,459,337; June 19.
Lugt, Gerard J., Amsterdam, Netherlands. Double-acting internal-combustion engine. 1,459,680; June 19.
Lyon, George A., Philadelphia, Pa. Rear attaching device. 1,459,227; June 19.
Lyon Rubber Co., The. (See Brubaker, William A., assignor.)
McAllister, John E. (See Patton, J. F., and McAllister.)
McCaa, David G., Lancaster, Pa., assignor of one-third to Federal Telegraph Company, San Francisco, Calif. Signaling apparatus. 1,459,308; June 19.
McCall, Charles W., Oakland, Calif. Detachable book leaf. 1,459,338; June 19.
McCathron, Henry N., Bridgeport, Conn. Boiler-tube repair plug. 1,459,542; June 19.
McClintock, Ora D., Chicago, Ill. Hair curler. 1,459,228; June 19.

McComas, Jesse C., Indianapolis, Ind. Shipping deck. 1,459,511; June 19.
McCreary, Sarah E., Highland, Kans. Hose supporter. 1,458,986; June 19.
McDonald, A. Y., Mfg. Co. (See McDonald, John M., assignor.)
McDonald, John M., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa. Air valve and the like. 1,459,543; June 19.
McGee, Jesse E., Guntown, Miss. Combined shield and package carrier. 1,459,111; June 19.
McKinney, Albert. (See Cover, H. A., and McKinney.)
McLeroth, Thomas B., assignor to T. B. McLeroth (Tubes) Limited, London, England. Air tube for pneumatic tires. 1,459,544; June 19.
McLeroth, T. B., (Tubes) Limited. (See McLeroth, Thomas B., assignor.)
McQuaid, Harry W., assignor to The Timken Roller Bearing Company, Canton, Ohio. Carburizing hollow articles. 1,459,409; June 19.
McWhorter, Emmett D., and A. A. Bennett, Coffeyville, Kans. Separator. 1,459,594; June 19.
Mabee, May C., Toledo, Ohio. Device for heating, pasteurizing and evaporating liquids. 1,459,182; June 19.
MacDonald, Edith M. (See MacDonald, W. J., Blaney, and MacDonald.)
Macdonald, George C., Elmhurst, assignor to Loose Wiles Biscuit Company, Long Island City, N. Y. Corrugated display rack. 1,459,706; June 19.
MacDonald, Wilfred J., F. R. Blaney, and E. M. MacDonald, Winnipeg, Manitoba, Canada. Amusement appliance. 1,459,474; June 19.
MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. 1,459,947; June 19.
Mackison, Elmer W. (See Bosshart, J. W., and Mackison.)
Macy, R. H., & Co. (See Von Kersburg, Harry E., assignor.)
Madden, George F., Roosevelt, Utah. Oil indicator and pump primer. 1,459,681; June 19.
Magee Furnace Company. (See Wiley, Clarence F., assignor.)
Magnetic Manufacturing Company. (See Dings, Alvin, assignor.)
Mail Receptacle Company, The. (See Murphy, Thomas F., assignor.)
Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Vehicle body. 1,459,159; June 19.
Mallan, George, Troy, Mo. Operating attachment for lift pumps. 1,459,632; June 19.
Malsin, Albert, et al. (See Weinstein, William, assignor.)
Manzel, Charles W., Buffalo, N. Y., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system. 1,459,662; June 19.
Mardel, Charles M. (See Arnstein, H., and Mardel.)
Mardis, Paul L. (See Hall, A. J., and Mardis.)
Marheine, Fredrick W., Spokane, Wash. Toy. 1,459,475; June 19.
Marshall, William H., Denver, Colo., assignor, by mesne assignments, to L. F. Raymond, Chicago, Ill. Humidifier for internal-combustion engines. 1,459,183; June 19.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Measured-service automatic telephone system. 1,459,229; June 19.
Martus, Martin L., Woodbury, Conn. Primary battery. 1,459,512; June 19.
Masien, Frank A., et al. (See Walper, Curry O., assignor.)
Mather Spring Co., The. (See Hendrickson, Niels E., assignor.)
Matheson, James H., Reading, Pa. Apparatus for making lapwelded tubes. 1,459,595; June 19.
Matre & Company. (See Matre, Victor G., assignor.)
Matre, Victor G., assignor to Matre & Company, Chicago, Ill. Pocket holy-water fountain. 1,459,230; June 19.
Maxwell, William, and L. A. Barker, Fredericktown, Ohio. Train stop. 1,459,023; June 19.
Mayo, Edward H., Moss Point, Miss. Paper-roll plug. 1,459,596; June 19.
Mechler, Julius F. (See Mechler, Sebastian T., assignor.)
Mechler, Sebastian T., assignor, by mesne assignments, of one-half to J. F. Mechler, San Antonio, Tex. Cushion wheel. 1,459,633; June 19.
Mehl, Charles F., Euclid, Ohio. Invalid bed. 1,459,112; June 19.
Meinholdt, Otto R., assignor of one-half to E. Meyhoefer, Dallas, Tex. Ice tongs. 1,459,339; June 19.
Mélotte, Alfred, Remicourt, Belgium. Speed indicator. 1,459,292; June 19.
Meredith, William C., Atlanta, Ga. Multiple conduit. 1,459,476; June 19.
Merrimac Chemical Company. (See Bezanson, Osborne, assignor.)
Merritt, S. Whyle, Co. (See Thamm, Paul, assignor.)
Meyer, Peter, Newark, N. J. Automatic multiple-tapping machine. 1,458,948; June 19.
Meyhoefer, Erich. (See Meinholdt, Otto R., assignor.)
Michell, Philip A., Fort Wadsworth, N. Y. Vehicle. 1,459,545; June 19.
Middleton, Lilian H., Wellington, New Zealand. Loose-leaf book. 1,459,231; June 19.
Midwestern Tractor Wheel Co. (See Walker, Glenn J., assignor.)
Milani, Edward, San Francisco, Calif. Preserving food products. 1,459,232; June 19.
Miller, Arnold W., assignor to C. H. Hook, Pittsburgh, Pa. Relief valve. 1,459,548; June 19.
Miller, Arthur E., Sacramento, Calif. Means for protecting negotiable instruments. 1,459,634; June 19.
Miller, Edgar J., St. Joseph, Mo. Valve lifter. 1,459,635; June 19.
Miller, Edward P., Atwater, Minn. Hub and wheel holding device. 1,459,597; June 19.
Miller, Elizabeth, New York, N. Y. Box reenforcement. 1,459,309; June 19.
Miller, Nicholas, Hartford, Conn. Stamp-affixing device. 1,459,636; June 19.
Minami, Fusakichi, San Francisco, Calif. Stem stripper. 1,459,598; June 19.
Mingle, George W. (See Ellis, J. G., and Mingle.)
Minor, William T., Ashland, Oreg. Fruit-picker's bag. 1,459,599; June 19.
Mix, Edwin S., Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc. Belt. 1,459,113; June 19.
Moldenhauer, Otto A., Milwaukee, Wis. Foot accelerator. 1,459,233; June 19.
Monica, Pasquale D., Harrison, N. Y. Garden implement. 1,458,987; June 19.
Monroe, James D., Birmingham, Ala. Manufacture of vinegar. 1,459,513; June 19.
Montpelier Manufacturing Company. (See Knothe, Paul J., assignor.)
Moore, George C., and T. F. Moore, Westerly, R. I. Elastic woven fabric. 1,459,547; June 19.
Moore, Thomas F. (See Moore, George C. and T. F.)
Moran, Robert C., Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovery of by-products in mercury fulminate manufacture. 1,459,410; June 19.
Morgan, Alfred P., Montclair, N. J. Rheostat. 1,459,070; June 19.
Morgan, Charles W., Chicago, Ill. Testing device for ignition systems. 1,459,114; June 19.
Morehouse, Lyman F., Montclair, N. J., assignor to American Telephone and Telegraph Company. Means for equalizing transmission over lines of different electrical characteristics. 1,458,988; June 19.
Morison, Donald B., Hartlepool, England. Cap nut. 1,459,548; June 19.
Morris, Archibald W., Russel Pocket, Kulara, via Cairns, Queensland, Australia. Lock. 1,459,234; June 19.
Morrison, William E., and K. Korpelainen, assignors to H. W. Cooper, Harrisburg, Pa. Artificial leg. 1,459,235; June 19.
Morris, Stanley S., New Orleans, La. Combination clock stand and pad support. Des. 62,535; June 19.
Morton, John A., Williston, Tenn. Sanitary milk and butter cooler. 1,459,184; June 19.
Morylin, Sam, Bolivar, Pa. Rail joint. 1,459,682; June 19.
Moss, Charles, New York, N. Y. Clasp or connecting device. 1,459,310; June 19.
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Philip, Decatur, Ill., assignor to A. Mueller, trustee, Decatur, Ill. Service clamp. 1,459,030; June 19.
Muhleisen, Henry W., assignor to W. S. Rush & Co., Los Angeles, Calif. Brake. 1,459,237; June 19.
Multi-Fabric Corporation. (See Brown, H. E., and Stover, assignors.)
Mumaw, Carl F., Scranton, Pa. Window cleaner. 1,459,071; June 19.
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murphy, Thomas F., assignor to The Mail Receptacle Company, Inc., New York, N. Y. Mail box. 1,459,031; June 19.
Myers, George F., New York, N. Y. Vehicle. 1,459,411; June 19.
Myers, William H. (See Henshaw, G. C., and Myers.)
Nace, Clarence L., Oakland, Calif. Bottle cap. 1,459,477; June 19.
Naslin, John O., Seattle, Wash. Doorcheck. 1,459,238; June 19.
National Equipment Company. (See Bausman, Alonzo L., assignor.)
Nevill, David J., Denver, Colo., assignor to The Stearns-Roger Manufacturing Company. Crusher. 1,459,340; June 19.
New England Metal Barrel Corporation, The. (See Felten, Abram V., assignor.)
New Haven Clock Company, The. (See Porter, Wilson E., assignor.)
New Safety Paper Co. (See Ruzicka, Rudolph, assignor.)
Newton, Richard T., assignor to Arms Products Company, Inc., New York, N. Y. Projectile. 1,459,600; June 19.
Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier radiotelephone system. 1,458,949; June 19.
Nickerson, William H., Brookline, Mass. Shank stiffener. 1,459,230; June 19.
Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic translating device. 1,459,412; June 12.
Nims, Frank B. and V. J., Stockton, Calif. Water circulator for gas engines. 1,459,160; June 19.

Nims, Voigt J. (See Nims, Frank B. and V. J.)
Ninety Nine Publishing Company. (See Cossitt, H. R., and Sinel, assignors.)
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Adapter for diestocks. 1,459,240; June 19.
Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Portable power hoist. 1,459,032; June 19.
Norris, George L., Wilmington, Del. Centering and clamping means for saws and other articles. 1,459,683; June 19.
Norström, Karl F. L., Skonvik, Sweden. Sleeve adapted to serve as core for paper rolls. 1,459,241; June 19.
North East Electric Company. (See Hutchins, William H., assignor.)
Northwall, Fred A., Portland, Oreg. Facing for cement walls. 1,459,684; June 19.
Norton Company. (See Booze, Macdonald C., assignor.)
Nuebling, Charles F. A., Hewlett, N. Y. Antiskid device. 1,459,685; June 19.
Nunnelly, William G. (See Ellis H., Hart, and Nunnelly.)
O'Donnell, John, jr., Philadelphia, Pa. Phonograph-record cleaner and clarifier. 1,459,549; June 19.
O'Donoghue, Aloysius S. (See Wrenn, H. B. P., and O'Donoghue.)
O'Flaherty, Leo F., and W. L. Kirkpatrick, Elgin, Ill. Valve. 1,459,242; June 19.
O'Flaherty, Leo F., and W. L. Kirkpatrick, Elgin, Ill. Valve. 1,459,243; June 19.
O'Gorman, John T., New York, N. Y. Automatic lock cock. 1,459,686; June 19.
Olsen, Christopher B., jr., Honolulu, Hawaii. Safety receptacle for bottles and the like. 1,459,375; June 19.
Olsen, John C., Rock Island, Ill. Attachment for lathes. 1,459,514; June 19.
O'Neil, William, assignor to The General Tire & Rubber Company, Akron, Ohio. Manufacture of cord tires. Re15,631; June 19.
Ordung, Henry H., assignor of one-third to J. Wade and one-third to G. T. Sharp, Laporte, Ind. Locking device for fruit cans or the like. 1,458,989; June 19.
Orstad, Elmer M., Park River, N. Dak. Horse protector. 1,459,601; June 19.
Orth, Fred W., Ocean Park, Wash. Perpetual calendar. 1,459,236; June 19.
Oscanyan, Paul C., Bogota, N. J., assignor to Star Ball Player Company, New York, N. Y. Score or bulletin board. 1,459,341; June 19.
Otto, Henry M., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer for ticket-distributing systems. 1,459,413; June 19.
Owens, Charles, Chattanooga, Tenn. Farm implement. 1,458,990; June 19.
Ozlek, Herman, Philadelphia, Pa. Sanitary drinking device. 1,459,311; June 19.
Pach, Joseph, Stone, Ky. Buckle. 1,459,687; June 19.
Page-Lewis Arms Company. (See Lewis, George S., assignor.)
Page, William A., Cleveland, Ohio. Inhaling tube. 1,459,478; June 19.
Palmer, John F., St. Joseph, Mich. Means for making pneumatic tires. 1,459,244; June 19.
Paradowski, Wawzyniec, Toledo, Ohio. Life-saving belt. 1,459,245; June 19.
Parker, Edwin A., and H. G. Evitt, Baltimore, Md. Detachable tire tread. 1,459,376; June 19.
Parker, George D., assignor to Stebler Parker Co., Riverside, Calif. Vertical elevating apparatus. 1,459,246; June 19.
Parkinson, Daniel M., Springfield, Ohio. Lock for automobile gas lines. 1,459,688; June 19.
Parks, Frederick J., New York, N. Y. Automatically manufacturing envelopes. 1,459,415; June 19.
Parks, Frederick J., New York, N. Y. Envelope. 1,459,414; June 19.
Paschall, John, Chicago, Ill. Spraying machine. 1,459,689; June 19.
Pathe Freres Phonograph Company. (See Widmann, E. A. and Lewis, assignors.)
Patterson, James A., Laurinburg, N. C. Match scratcher. 1,459,550; June 19.
Patton, James F., and J. E. McAllister, Cleveland, Ohio. Milling machine for continuous milling. 1,459,248; June 19.
Peebles, Thomas A., Pittsburgh, assignor to J. M. Hopwood, Dormont, Pa. Regulation of combustion of gas and powdered fuel. 1,459,072; June 19.
Peeples, Mark B., Scotia, S. C. Reenforcing strip for tires. 1,459,377; June 19.
Pedersen, Julius, Bridgeport, Conn. Clothesline support. 1,459,115; June 19.
Pelton Water Wheel Company. (See Hutchinson, Ely C., assignor.)
Pennington, Gordon R., Cleveland, and S. K. Wellman, Cleveland Heights, Ohio. Slide-operating mechanism. 1,459,185; June 19.
Penniman, William B. D., Baltimore, Md. Apparatus for cracking oils. 1,459,515; June 19.
Pennsylvania Textile Mills Inc., The. (See Ericson, E., and Weiss, assignors.)
People of the United States. (See Lindauer, Alfred C., assignor.)
Perfection Electric Products Co., The. (See Kruesheld, Henry, assignor.)
Perkins, Earl G., Youngatown, Ohio. Lamp stand. 1,459,249; June 19.
Perry, George E., Lincoln, Me. Belting. 1,459,690; June 19.
Peters, Guy M., trustee. (See Hough, Earl B., assignor.)
Peters, Stanley E., assignor, by mesne assignments, to Kritikson Bros., Inc., Chicago, Ill. Self-filling fountain pen. 1,459,073; June 19.
Peterson, Marius A., Marcus Hook, Pa. Toilet kit. 1,459,602; June 19.
Pettersson, Johan G., Borgholm, Sweden. Fire protector for moving-picture machines. 1,459,551; June 19.
Pfersch, Clarence L., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Book match. 1,459,033; June 19.
Pfiager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Articulated car. 1,459,250; June 19.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Gas cock. 1,459,416; June 19.
Pierce, Clarence A., Lowell, Mass. Spinning frame. 1,459,251; June 19.
Piotrowski, Paul, Newport, N. H. Support for window shades and curtains. 1,459,342; June 19.
Piqué, Jean J., London, England. Cooling and freezing of fish and the like. 1,458,991; June 19.
Plitt, Walter R., and W. A. Lloyd, Meyersdale, Pa. Car wheel. 1,459,691; June 19.
Plumm, Gottfried, Berlin-Lichterfelde, Germany, assignor to M. Polak, Groningen, Netherlands. Ignition system for internal-combustion engines. 1,459,252; June 19.
Plummer, Clarence H., Kewaunee, Wis. Conveying apparatus. 1,459,253; June 19.
Poirmeur, Louis T., Meru, France. Explosion rotating engine. 1,458,950; June 19.
Polak, Moritz. (See Plumm, Gottfried, assignor.)
Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,459,186; June 19.
Poole, Harry, and G. P. Romain, Dillon, Mont. Miter box. 1,458,951; June 19.
Portable Elevator Mfg. Co. (See Irey, John H., assignor.)
Porter, Wilson E., assignor to The New Haven Clock Company, New Haven, Conn. Self-contained removable power unit for clock movements. 1,459,343; June 19.
Powell, Ernest A., Rawson, Ohio. Stock-watering device. 1,459,293; June 19.
Powers, Timothy B., Brooklyn, N. Y. Screw driver. 1,459,708; June 19.
Poyet, Maurice J., Paris, France. Rotary machine. 1,459,637; June 19.
Pratt, Emil B., East Cleveland, Ohio. Reducing metallic oxides. 1,459,187; June 19.
Prescott, Charles A., Providence, R. I. Spring compressor. 1,459,692; June 19.
Prindle, William E., Columbus, Ohio. Drier. 1,459,254; June 19.
Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Printing press. 1,459,312; June 19.
Prokesch, Samuel J., New York, N. Y. Pocketbook. 1,458,952; June 19.
Proton, Claude A., and J. G. Bruyère, Lyon, France. Cinematographic and the like projection screen. 1,459,603; June 19.
Pyke, Harold A., Grafton, Auckland, New Zealand. Window cleaner. 1,459,255; June 19.
Quimby, William E., Inc. (See Rathman, Gilbert, assignor.)
Quimby, William E., Orange, N. J. Guard for lawn mowers. 1,459,034; June 19.
Raisig, Charles, Pittsburgh, Pa. Flexible coupling. 1,459,035; June 19.
Ramapo Ajax Corporation. (See Strong, James B., assignor.)
Ramirez, Andres, Guadalupe, Tex. Combination cotton cultivator. 1,459,256; June 19.
Rand, William M., I. C. Brook, and F. C. Butler, Vancouver, British Columbia, Canada. Splitting cord tires. 1,459,693; June 19.
Rasmussen, Ernest A., Oakland, Calif. Building-wall construction. 1,459,344; June 19.
Rathman, Gilbert, assignor to W. E. Quimby, Inc., New York, N. Y. Rotary pump. 1,459,552; June 19.
Raybestos Company, The. (See Judd, Morton F., assignor.)
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Bobbin-winding machine. 1,459,074; June 19.
Raymond, Louis F. (See Marshall, William H., assignor.)
Reed, James, and G. Washington, New Orleans, La. Automobile rim tool. 1,459,294; June 19.
Reger, Robert V. (See Reger, Scott N., assignor.)
Reger, Scott N., Berryburg, W. Va., assignor of one-half to R. V. Reger, Clarksburg, W. Va. Multiple-compartment container. 1,459,257; June 19.
Reichard, Harold D., Akron, Ohio. Tire tread. Des. 62,537; June 19.
Reineke, William F., Lakefield, Minn. Combined clutch actuator and brake. 1,459,258; June 19.
Reiners, Wilhelm, Munich-Gladbach, Germany. Bobbin holder. 1,459,694; June 19.

Reinhold, Otto F., Maplewood, N. J. Deodorizing material. 1,459,036; June 19.
Reisler, Simon, Indianapolis, Ind., and H. B. Tobias, Philadelphia, Pa. Operating urethroscope. 1,459,313; June 19.
Rémondy, Léon E., Rueil, France. Fuse for artillery and aviation projectiles. 1,459,075; June 19.
Remy Electric Company, The. (See Creager, E. F., and Rogers, assignors.)
Resk, Michell, New York, N. Y. Automatic life protector for automobiles. 1,459,314; June 19.
Rheinische Metallwaaren- und Maschinenfabrik. (See Schweitzer, Heinrich, assignor.)
Richardson, Orlo D., Chicago, Ill. Composite sheet material. 1,459,259; June 19.
Rite Form Corset Co., et al. (See Weinstein, William, assignor.)
Roberts, A. Boake, and Company Limited. (See Vago, Alfred E., assignor.)
Roberts, Charles F., assignor to Roberts Manufacturing Co., Lockport, N. Y. Cleaning device for paper-making machines. 1,459,161; June 19.
Roberts, Lewis D., Washington, D. C. Paper can. 1,459,260; June 19.
Roberts, Lewis D., Washington, D. C. Can opener. 1,459,261; June 19.
Roberts Manufacturing Co. (See Roberts, Charles F., assignor.)
Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)
Robertson, William J., and H. E. Becker, Fullerton, Calif. Well-cementing apparatus. 1,459,345; June 19.
Robeson, Edna G., Atlanta, Ga. Stationery cabinet. 1,458,953; June 19.
Rocbeleau, Alphonso, assignor to Hart Brothers, Saginaw, Mich. Feed device for bean-sorting machines. 1,459,553; June 19.
Rodopulos, Michael P., Chicago, Ill. Ice-cream scoop. 1,459,638; June 19.
Rode, Charles R., Lima, Ohio. Viscosimeter. 1,459,262; June 19.
Rogers, Samuel. (See Creager, E. F., and Rogers.)
Rogers, Wilbur L., Boston, Mass. Steering attachment for sleds. 1,459,263; June 19.
Rohlin, Karl W., Philadelphia, Pa., assignor to Warren Webster & Company, Camden, N. J. Combination regulating valve for feed-water heaters. 1,459,516; June 19.
Romain, George P. (See Poole, H., and Romain.)
Rouanet, Louis, Ivry-Port, assignor to Compagnie d'Applications Mecaniques, Paris, France. Roller bearing. 1,458,954; June 19.
Routt, Orville L., Los Angeles, Calif. Making wall board. 1,459,264; June 19.
Ruggiero, Frank J., New York, N. Y. Guard for punch presses. 1,459,162; June 19.
Rush, W. S., & Co. (See Muhleisen, Henry W., assignor.)
Russakov, Jacob I., Chicago, Ill. Receptacle cover. 1,458,955; June 19.
Ruzicka, Rudolph, Dobbs Ferry, N. Y., assignor to New Safety Paper Co., Boston, Mass. Safety paper. Des. 62,538; June 19.
Safety Car Heating & Lighting Company, The. (See Vuilleumier, Rudolph, assignor.)
Salm, John, Torrance, Calif. Handle for a manicure article. Des. 62,555; June 19.
Salm, John, Torrance, Calif. Handle for a manicure article. Des. 62,556; June 19.
Sandage, Isaac H., Sandpoint, Idaho. Reciprocating saw. 1,459,604; June 19.
Sargent & Company. (See Kimball, Frank I., assignor.)
Saundry, Edward, New Haven, Conn. Rope-joining clamp. 1,459,265; June 19.
Save-A-Room Furniture Manufacturing Company. (See Freeman, John, assignor.)
Sawyier, Thomas C., Indianapolis, Ind. Pen and pencil holder. 1,459,517; June 19.
Sayer, John, Stone Lake, Wis. Socket wrench. 1,458,956; June 19.
Schachenmeier, Richard H., Karlsruhe, Germany. Course drafter for marine and aeronautic vessels. 1,458,957; June 19.
Schaefer, Adolph, Vallejo, Calif. Internal-combustion engine. 1,459,479; June 19.
Scheele, Walter T., Hackensack, N. J., assignor to H. M. Specht, New York, N. Y. Production of camphoric acid. 1,458,992; June 19.
Scheele, Walter T., Hackensack, N. J., assignor to H. M. Specht, New York, N. Y. Production of camphor. 1,458,993; June 19.
Schenuit, Henry F., Pasadena, Calif. Tremolo for pianos. 1,459,378; June 19.
Schea, William C., Los Angeles, Calif. Orchard heater. 1,459,076; June 19.
Schieberl, Aubrey M., Moundville, Mo. Checkrow-wire support. 1,459,163; June 19.
Schmalz, Peter J., Howard, Mont. Metal fencepost. 1,459,116; June 19.
Schmidt, Emil, Elmhurst, N. Y. Dispensing receptacle. 1,459,450; June 19.
Schmidt, Lambert, Brooklyn, N. Y. Attachment for electric lamps. 1,458,994; June 19.
Schneider, Ralph F., Jersey City, N. J. Bleeding apparatus. 1,458,958; June 19.
Schorik, Frank, Chicago, Ill. Water heater. 1,459,164; June 19.
Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. 1,458,995; June 19.
Schrafft, Wm. F., & Sons, Corporation. (See Hawes, Newell H., assignor.)
Schreiner, Arthur W., Brooklyn, N. Y. Phonograph reproducer. 1,459,605; June 19.
Schurch, Jacob, assignor of one-half to W. H. Heise, Los Angeles, Calif. Electric drive for vehicles. 1,459,165; June 19.
Schwartz, John O., Hope, Ind. Front drive. 1,459,639; June 19.
Schweitzer, Heinrich, Soemmerda, Germany, assignor to the Firm of Rheinische Metallwaaren- und Maschinenfabrik of Duesseldorf-Derendorf, Germany. Typewriting machine. 1,459,554; June 19.
Schwerin, Paul, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,459,417; June 19.
Scott, Charles D., assignor to The Scott Weighing Machine Co., Topeka, Kans. Scale. 1,459,188; June 19.
Scott, James R., St. Louis, Mo. Antiskidding device for motor vehicles. 1,459,418; June 19.
Scott Weighing Machine Co., The. (See Scott, Charles D., assignor.)
Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Multistage amplifier circuits. 1,459,419; June 19.
Sebell, Harry, Somerville, assignor of one-half to F. G. Davison, Cambridge, Mass. Cover for cracker cans and similar containers. 1,459,266; June 19.
Seche, Joseph M., Philadelphia, Pa. Electric iron. 1,459,451; June 19.
Seifert, Henry R., East Ellsworth, Wis. Machine for making piston rings. 1,459,117; June 19.
Seley, Charles C., Erie, assignor to G. H. Barlow and J. J. Desmond, Corry, Pa. Corset. 1,459,518; June 19.
Seng, Camille, Romilly-sur-Seine, France. Pipe coupling. Re15,632; June 19.
Shaler, Clarence A., Waupun, Wis. Vulcanizer. 1,459,555; June 19.
Sharp, Gibson T., et al. (See Ordung, Henry H., assignor.)
Shea, Arthur E., Eckley, Colo. Shim plate for demountable rims. 1,459,346; June 19.
Shepherd, Frank E., North Kingsville, Ohio. Lifting apparatus. 1,459,556; June 19.
Shima, Adam S., Pasadena, Calif. Testing device for spark plugs. 1,459,379; June 19.
Shimp, Frederick A., assignor to Skillkrafters Incorporated, Philadelphia, Pa. Ring. Des. 62,539; June 19.
Shippert, Warren A., assignor to The Burton Page Company, Chicago, Ill. Milking machine. 1,459,420; June 19.
Shoenfelt, Charles F., Vandalia, G. H. Cook, Dayton, and F. H. Cook, Tippecanoe, Ohio; said G. H. Cook assignor to said Shoenfelt. Bottle holder. 1,459,707; June 19.
Showers, Ernest S., Michigamme, Mich. Figure toy. 1,459,118; June 18.
Shutoff, Michael, Freehold, N. J. Animal trap. 1,459,267; June 19.
Siegel, Jacob, Chicago, Ill. Automobile curtain. Des. 62,557; June 19.
Siemens & Halske Aktiengesellschaft. (See Kath, Willy, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Keinath, George, assignor.
Siglin, Bert R., Aurelia, Iowa. Hog ringing and loading chute. 1,458,996; June 19.
Simmons Hardware Company. (See Black, John S., assignor.)
Simmons, Robert P., Cleveland, Ohio. Sheet-metal radius rod. 1,459,519; June 19.
Simonds Saw and Steel Company. (See Buckley, Daniel P., assignor.)
Sinel, Joseph. (See Cossitt, H. R., and Sinel.)
Skillkrafters Incorporated. (See Shimp, Frederick A., assignor.)
Sleeper & Hartley, Inc. (See Sleeper, Frank H., assignor.)
Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Winding and cabling machine. 1,458,997; June 19.
Sletto, Henry, Atascadero, Calif. Pumpkin-peeling machine. 1,458,998; June 19.
Slight, George W., Brooklyn, N. Y. Mounting for stylus levers. 1,459,695; June 19.
Slusher, Clyde H., Lexington, Mo. Target-throwing device for trap shooting. 1,459,421; June 10.
Slyt Edge Company. (See Krause, Lou, assignor.)
Smith, A. O., Corporation. (See Westmore, Halward G., assignor.)
Smith Cannery Machines Co. (See Waugh, Edward H., assignor.)
Smith, Cecil C., Sydney, New South Wales, Australia. Dirigible headlight. 1,459,268; June 19.
Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Pie machine. 1,459,166; June 19.
Smith, Reinold V., assignor to Eureka Metallurgical Company, Salt Lake City, Utah. Concentrating ores. 1,459,167; June 19.

Smith, Thomas F., Tulsa, Okla. Burner. 1,459,295; June 19.
Snyder, Cairo L., Marion, Ind. Electric-light device. 1,458,999; June 19.
Snyder, Eugene, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for packing matches. 1,459,037; June 19.
Sommerhof, William A., Erie, Pa. Phonograph cabinet. 1,459,000; June 19.
Sonne, Thomas, Vancouver, British Columbia, Canada. Awning. 1,459,480; June 19.
Souvielle, Elisa M., Jacksonville, Fla. Thrust bearing. 1,459,452; June 19.
Specht, H. Mortimer. (See Scheele, Walter T., assignor.)
Spindel, Enos S. (See Wenneborg, Henry, assignor.)
Spiro, Walter J., White Plains, N. Y. Multiple-control switch. 1,459,557; June 19.
Sprague, Sidney, Brooklyn, N. Y., assignor of one-fourth to B. Futterman, New York, N. Y. Match case. 1,459,696; June 19.
Stambaugh, Russell H., Galesburg, Ill. Cutter. 1,459,296; June 19.
Standard Conveyor Company. (See Wright, Fred, assignor.)
Standifer, Thomas V. (See Johnson, Peter A., assignor.)
Star Ball Player Company. (See Oscanyan, Paul C., assignor.)
Stark, Albert, assignor of one-half to H. Stark, Paterson, N. J. Jar closure. 1,459,558; June 19.
Stark, Harry. (See Stark, Albert, assignor.)
Starkenstein, Emil, Prague, Czechoslovakia. Pharmaceutical product. 1,459,347; June 19.
Stearns-Roger Manufacturing Company, The. (See Nevill, David J., assignor.)
Stebler Parker Co. (See Parker, George D., assignor.)
Stephens, Earl R., Dover, N. J. Stove. 1,459,559; June 19.
Stevens and Company. (See Stevens, Frederick A., assignor.)
Stevens, Frederick A., assignor to Stevens and Company, Inc., Providence, R. I. Ophthalmic mounting. 1,459,348; June 19.
Stewart, Gladys M., Cincinnati, Ohio. Girl's dress. Des. 62,540; June 19.
Stimmel, Frederick C., Chattanooga, Tenn., assignor to The Casey-Hedges Co. Baffle wall for horizontal water-tube boilers. 1,459,560; June 19.
Stimmel, Frederick C., assignor to The Casey-Hedges Co., Chattanooga, Tenn. Vertical water-tube boiler. 1,459,561; June 19.
Stohiman, William F., Long Beach, Calif. Grease dispenser. 1,459,606; June 19.
Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical system. 1,459,422; June 19.
Stouffer, Ralph E., assignor to Yellow Cab Company, Chicago, Ill. Lamp lock. 1,459,562; June 19.
Stover, Jordan H. (See Brown, H. E., and Stover.)
Stratton, Wilbert E., et al. See Bullock, Charles A. H., assignor.)
Strickler, Walter B. (See Keckler, C. W., and Strickler.)
Strong, James B., Hillburn, N. Y., assignor to Ramapo Ajax Corporation, New York, N. Y. Switch rod for slip switches. 1,459,001; June 19.
Subic, Anton, Big Piney, Wyo. Stop for talking machines. 1,459,640; June 19.
Swan, Albert S. (See Yeats, J. A., and Swan.)
Swan, Gustave, Sioux Falls, S. Dak. Bicycle boat. 1,459,297; June 19.
Swanson, Guss A., Chicago, Ill. Building block. 1,459,189; June 19.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Carton support for drinking cups. 1,459,002; June 19.
Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,459,119; June 19.
Taylor, Charles, Paterson, N. J. Bleaching apparatus. 1,459,697; June 19.
Teare, Philip, Melbourne, Victoria, Australia. Filing device for loose leaves. 1,459,298; June 19.
Teltelbaum, Boris H., assignor to H. M. Koretsky, Brooklyn, N. Y. Depolarizer. 1,459,698; June 19.
Thamm, Paul, assignor to S. Whyte Merritt Co. Inc., New York, N. Y. Electric light and power plant. 1,459,563; June 19.
Thompson, Milton, Roland, Iowa. Funnel for automobiles. 1,459,299; June 19.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Means for equalizing transmission over lines of different electrical characteristics. 1,459,003; June 19.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Means for equalizing transmission over lines of different electrical characteristics. 1,459,004; June 19.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Means for equalizing transmission over lines of different electrical characteristics. 1,459,005; June 19.
Thörig, Werner K., Zurich, Switzerland. Mold for manufacturing money chests and the like. 1,459,120; June 19.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens-protecting composition. 1,459,380; June 19.
Timken Roller Bearing Company., The. (See McQuaid, Harry W., assignor.)
Tobias, Herrmann B. (See Reisler, S., and Tobias.)
Toledo Scale Company. (See Crane, Samuel G., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Topfner, Peter, Detroit, Mich. Trousers protector. 1,459,641; June 19.
Trachtenberg, Samuel, Cleveland, Ohio. Music-leaf turner. 1,458,959; June 19.
Tracy, Edward M., Cleveland, Ohio. Artificial foot. 1,459,564; June 19.
Trapnell, William E., and J. A. Easterwood, Madisonville, Ky. Excavating machine. 1,459,481; June 19.
Trigwell, Alfred J., San Jose, Calif. Pump. 1,459,453; June 19.
Trotter, Henry R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thrust bearing. 1,459,454; June 19.
Trunko, John, Arden, W. Va. Trolley-wheel guard. 1,459,663; June 19.
Tully, Henry C., Toledo, Ohio. Crosstie. 1,459,168; June 19.
Turner, George, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making match books. 1,459,038; June 19.
Turner, John, jr., assignor of one-half to W. Whittle, Rexfield, Iowa. Liquid dropper. 1,459,642; June 19.
Ullman, Louis, New York, N. Y. Method of and apparatus for removing and replacing bearing sleeves of propeller shafts. 1,459,269; June 19.
Underwood, George T., Maxwell, Calif. Liquid-fuel burner. 1,459,482; June 19.
United States Envelope Company. (See Swift, Willard E., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
Union Metal Manufacturing Company, The. (See Barrick, Donald C., assignor.)
Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)
Union Special Machine Company. (See Hughes, Robert R., jr., assignor.)
Union Special Machine Company. (See Tate, Samuel G., assignor.)
Unruh, Cornelius C., Freeman, S. Dak. Dolly for washing machines. 1,459,483; June 19.
Uptegraff, Alexander G., New York, N. Y. Coupon system for commodities. 1,459,423; June 19.
Vago, Alfred E., Middlesex, assignor to A. Boake Roberts and Company Limited, London, England. Container for cards for recording statistical and other information. 1,459,455; June 19.
Van Ackeren, Fred, Cedar Rapids, Nebr. Fowl powderer. 1,459,349; June 19.
Van Deusen, Carrie. (See Davis, Madaline V., assignor.)
Van de Wiel, Fernand, assignor to Compagnie Generale d'Electricite, Paris, France. Stopper for closing the containers of electric accumulators. 1,459,121; June 19.
Van Horn, Charles B., Detroit, Mich. Bottle scrubbing and washing machine. 1,459,643; June 19.
Van Ruymbeke, Joseph, Marseille, France. Production of alcohol. 1,459,699; June 19.
Van Scoy, Howard, Chicago, Ill., assignor to Goodwin Car & Mfg. Company, Inc., Wilmington, Del. Dumping cargo carrier. 1,459,315; June 19.
Van Vickle, William H., assignor of one-half to W. J. Aesdale, Mound City, Mo. Road drag. 1,459,122; June 19.
Veniero, Frank, Moreno Stage, Calif. Ladder. 1,459,350; June 19.
Vinle, Spirito M., assignor to Armstrong Siddeley Motors Limited, Coventry, England. Engine cylinder. 1,459,039; June 19.
Vilar y Pazos, José, Trinidad, Cuba. Machine for cutting cane and similar plants. 1,459,247; June 19.
Vincent, Edward H., Detroit, Mich. Steering wheel. 1,459,040; June 19.
Volz, Chris L., Detroit, Mich. Electric switch. 1,459,520; June 19.
Von Enzeln, Harry F., Ludell, Kans. Wheat stacker. 1,459,271; June 19.
Von Kersburg, Harry E., assignor to R. H. Macy & Co., Inc., New York, N. Y. Safety attachment for stop watches. 1,459,006; June 19.
Von Post, Gustaf, New York, N. Y. Automatic balance weighing apparatus. 1,459,272; June 19.
Von Serkey, Joseph, San Francisco, Calif. Spirit level. 1,459,381; June 19.
Vuilleumier, Rudolph, New Rochelle, N. Y., assignor to The Safety Car Heating & Lighting Company. Method of and apparatus for heat differentiation. 1,459,270; June 19.
Wade, Joseph, et al. (See Ordung, Henry H., assignor.)
Wagar, Duane H., Ocean Park, Calif. Savings bank. 1,459,424; June 19.

Wagenhorst, James H., Jackson, Mich. Making spokes. 1,459,169; June 19.
Wagner, Arthur J., Rochester, N. Y. Lingerie clasp. 1,459,382; June 19.
Wagner, Martin, Argusville, N. Dak. Washing machine. 1,459,607; June 19.
Wagner, William F., Washington, D. C. Suit hanger. Re15,628; June 19.
Wahl, George L., Minneapolis, Minn. Force-feed oiling system. 1,459,484; June 19.
Walker, Glenn J., assignor to Midwestern Tractor Wheel Co., Detroit, Mich. Tractor wheel. 1,459,190; June 19.
Walper, Curry O., assignor of one-third to F. A. Maslen and one-third to B. E. Clark, Detroit, Mich. Wall construction. 1,459,170; June 19.
Walther, Adolph F., assignor to L. H. Heister, jr., Cleveland, Ohio. Hoist tower for building operations. 1,459,123; June 19.
Waring, Edward J., et al. (See Bullock, Charles A. H., assignor.)
Warren Webster & Company. (See Rohlin, Karl W., assignor.)
Washington, George. (See Reed, J., and Washington.)
Watson, George W., London, England. Apparatus for measuring products of two variable quantities. 1,459,644; June 19.
Watters Laboratories, Consolidated, et al. (See Graupe, William, assignor.)
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Fish slitting and cleaning machine. 1,459,273; June 19.
Weber Costello Company. (See Busch, Edward H., assignor.)
Webster, Hyleman A., Columbia, Tenn. Continuous process of making superphosphate. 1,459,124; June 19.
Wehrle Company, The. (See Pickup, George E., assignor.)
Weinstein, William, assignor of one-half to A. Malsin and one-half to Rite Form Corset Co., Inc., New York, N. Y. Corset clasp. 1,459,316; June 19.
Weiss, Roger. (See Ericson, E., and Weiss.)
Wellman, Samuel K. (See Pennington, G. R., and Wellman.)
Wepneborg, Henry, assignor of one-half to E. S. Spindel, Springfield, Ill. Trailer. 1,459,521; June 19.
Western Electric Company. (See Allen, Louis M., assignor.)
Western Electric Company. (See Blattner, David G., assignor.)
Western Electric Company. (See Boe, H. J., and Egert, assignors.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Gent, Edgar W., assignor.)
Western Electric Company. (See Herrmann, Raymond R., assignor.)
Western Electric Company. (See Hocker, Carl D., assignor.)
Western Electric Company. (See Keckler, C. W., and Strickler, assignors.)
Western Electric Company. (See Kendall, Burton W., assignor.)
Western Electric Company. (See Nicolson, Alexander M., assignor.)
Western Electric Company. (See Otto, Henry M., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Schwerin, Paul, assignor.)
Western Electric Company. (See Scriven, Edward O., assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company. (See Wheeler, Clyde H., assignor.)
Western Electric Company. (See Wold, Peter I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bann, Horace F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baumann, Karl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Mardis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kinney, J. Stanley, assignor.)
Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric & Manufacturing Company. (See Nichols, Harold W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trotter, Henry R., assignor.)
Westmore, Halward G., assignor to A. O. Smith Corporation, Milwaukee, Wis. Method of and apparatus for uniting the parts of vehicle frames. 1,459,456; June 19.
Wetzel, Fred H., assignor to Willys Corporation, Toledo, Ohio. Focusing-lamp socket. 1,459,700; June 19.
Wetzig, Alfred, New Ellington, S. Dak. Fish-dressing tool. 1,459,007; June 19.
Wheeler, Clyde H., Midland Park Borough, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Armature backstop. 1,459,425; June 19.
Wheeler, William I., Scottville, Ill. Power-transmission mechanism. 1,459,125; June 19.
Whelan, Michael J. (See Davenport, H. F., and Whelan.)
Whitaker, Louis P., et al. (See Kreipe, Theodore, assignor.)
White, William E., Chicago, Ill. Bar spacer. 1,458,960; June 19.
Whitney, Gary M., Greybull, Wyo. Emptying device or emptier. 1,459,485; June 19.
Whitney, Gary M., and J. F. Fletcher, Greybull, Wyo. Automatic float valve for the separation of two immiscible liquids. 1,459,486; June 19.
Whittle, Walter. (See Turner, John, jr., assignor.)
Widiger, Emanuel, Hammond, Ind. Pipe-flange protector. 1,459,126; June 19.
Widmann, Eugene A., Brooklyn, N. Y., and F. D. Lewis, West Orange, N. J., assignors to Pathe Freres Phonograph Company, New York, N. Y. Combined phonograph and sound-character exhibiting device. 1,459,426; June 19.
Widmer, Howard G., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Machine for operating on paper. 1,459,041; June 19.
Wiederhold, Hermann, and C. Ehrenberg, Furstenwalde-on-the-Oder, Germany, assignor to Industrial Research Limited, London, England. Recovery of ammonia from gases containing the same. 1,459,703; June 19.
Wilcox, W. W., Co. (See Klatt, Joseph, assignor.)
Wilburger, William, Brooklyn, N. Y. Album for disk records. 1,459,457; June 19.
Wiley, Clarence F., Taunton, assignor to Magee Furnace Company, Inc., Boston, Mass. Air-inlet control for combination coal and gas ranges. 1,459,383; June 19.
Wilharm, Adolph J., Ashland, Wis. Dust collector. 1,459,008; June 19.
Wilkinson, Robert H., Ponca City, Okla. Flushing attachment for automobile radiators. 1,459,384; June 19.
Will & Baumer Candle Co. (See Hawley, Agnes M., assignor.)
Willard, Frederick A. and M. D., Jackson, Mich. Apparatus for removing abrasive disks from grinding wheels. 1,459,171; June 19.
Willard, Mathew D. (See Willard, Frederick A. and M. D.)
Willis, Oscar D., Huntington, W. Va. Door latch. 1,459,701; June 19.
Williams, Alfred. (See Williams, Leo D. and A.)
Williams, Fred O., Brookline, Mass. Liquid container. 1,459,191; June 19.
Williams, J. H., & Co. (See Bufford, George W., assignor.)
Williams, Leo D. and A., London, England. Determining the composition of gases. 1,459,127; June 19.
Williams, Seldon T., Philadelphia, Pa. Tool. 1,458,961; June 19.
Wills, Ernest C. and E. S., Clinton, Iowa. Dump body. 1,459,385; June 19.
Wills, Ernest S. (See Wills, Ernest C. and E. S.)
Willys Corporation. (See Wetzel, Fred H., assignor.)
Wilson, John A., Beaumont, Tex. Walking-beam system for pumping water. 1,459,645; June 19.
Winans, Harold J., Nashville, Tenn. Cigarette-salvage case. 1,459,077; June 19.
Wise, Joseph C., Los Angeles, Calif. Inner tube. 1,459,172; June 19.
Wiseman, Thomas A., Tullahoma, Tenn. Lock. 1,459,128; June 19.
Wittig, Alfred E., Rochester, N. Y. Attachment for jars. 1,459,129; June 19.
Witzenmann, Emil, Pforzheim, Germany. Flexible metal hose. 1,459,487; June 19.
Wloszek, John, Donora, Pa. Double window shade and curtain support. 1,459,173; June 19.
Wofford, George M., and J. A. Bristow, Athens, Tex. Hook. 1,459,488; June 19.
Wojan, Richard, Elmont, N. Y. Apparatus for repairing shoes. 1,459,458; June 19.
Wold, Peter I., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic regulator. 1,459,427; June 19.
Wold, Peter I., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic regulator. 1,459,428; June 19.
Wolk, Joseph, Bridgeport, Conn. Piston for internal-combustion engines. 1,459,664; June 19.
Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Can. 1,459,523; June 19.
Wood, John C., Quay, N. Mex. Stop for talking machines. 1,459,646; June 19.
Wood, Walter S., Charleston, W. Va. Display cover. 1,459,647; June 19.
Woods, Charles S., Indianapolis, Ind. Window guard. 1,459,522; June 19.
Woodworth, William W., South Berkeley, Calif. Foldable and collapsible container. 1,459,459; June 19.
Woronzoff, Dionysie, New York, N. Y. Advance-order device. 1,459,351; June 19.

Worth, Thomas B., & Sons Limited. (See Davis, Arthur, assignor.)
Wrege, Jay L., Stearns, Ky. Artificial bait. 1,459,042; June 19.
Wrenn, Henry B. P., and A. S. O'Donoghue, Cleveland, Ohio. Overhead electrical conductor system. 1,459,174; June 19.
Wright, Fred, Waukegan, Ill., assignor, by mesne assignments, to Standard Conveyor Company, North St. Paul, Minn. Conveying machine. 1,459,524; June 19.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Wright, Thomas H., Los Angeles, Calif. Monorail car. 1,459,386; June 19.
Wyandott-Mor-Powr Truck Company, The. (See Kocher, Charles E., assignor.)
Wyman, Harold. (See Armstrong, Henry W., assignor.)
Yamada, Kinsaku, Tokyo, Japan. Therapeutical apparatus. 1,459,489; June 19.
Yankauer, Sidney, Flushing, N. Y. Resilient wheel. 1,459,565; June 19.
Yardley, Farnham, assignor to Jenkins Brothers, New York, N. Y. Valve. 1,459,460; June 19.
Yeats, John A., Richmond, and A. S. Swan, Coburg, Victoria, Australia. Side car of motor cycles. 1,459,387; June 19.
Yellow Cab Company. (See Stouffer, Ralph E., assignor.)
Yokoyama, Fukutaro, Tokyo, Japan. Electric pocket lamp with signal pane and compass. 1,459,274; June 19.
Yost, Joseph, New York, N. Y. Toy whistle. Des. 62,541; June 19.
Young, Bengt J., Minneapolis, Minn. Tire tool. 1,459,490; June 19.
Young, William R., assignor to himself and S. K. Greene, Brooklyn, N. Y. Rock crusher. 1,459,130; June 19.
Ziegler, George J., Los Angeles, Calif. Tractor transmission. 1,459,491; June 19.
Zunino, Lorenzo, Berkeley, Calif. Pedestal. Des. 62,558; June 19.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accelerator, Foot. E. H. Birdsall. 1,459,317; June 19.
Accelerator, Foot. O. A. Moldenhauer. 1,459,233; June 19.
Acid, Production of camphoric. W. T. Scheele. 1,458,992; June 19.
Acid, Purifying lactic. T. Hamburger. 1,459,395; June 19.
Adjustable wrench. O. E. Edstrom. 1,459,583; June 19.
Advance-order device. D. Woronzoff. 1,459,351; June 19.
Advertisements, calendars, and pictures, Mounting for. H. L. Gulline. 1,459,032; June 19.
Advertising stand. W. C. Carlson. Des. 62,544; June 19.
Aerial transport, System of. G. Bennie. 1,459,495; June 19.
Air-brake systems, Automatic safety control for. L. F. Hellmann and W. W. Baxter. 1,459,098; June 19.
Air-conditioning apparatus. L. L. Lewis. 1,458,985; June 19.
Air from liquefied gases, Apparatus for generating respirable. L. Lisse. 1,459,158; June 19.
Aisle light. C. F. Butte. 1,459,440; June 19.
Alcohol production. J. Van Ruymbeke. 1,459,699; June 19.
Ammonia and recovering acid as alkali-metal salts, Oxidizing. F. Bensa. 1,458,960; June 19.
Ammonia from gases containing the same, Recovery of. H. Wiederhold and C. Ehrenberg. 1,459,703; June 19.
Amplifier circuits, Multistage. E. O. Scriven. 1,459,419; June 19.
Amusement appliance. W. J. MacDonald, F. R. Blaney, and E. M. MacDonald. 1,459,474; June 19.
Amusement device. W. C. Hadley. Re15,629; June 19.
Animal trap. J. D. Gravolet and A. Ansardi. 1,459,661; June 19.
Animal trap. A. Krol. 1,459,027; June 19.
Animal trap. M. Shutoff. 1,459,267; June 19.
Antiskidding device for motor vehicles. J. R. Scott. 1,459,418; June 19.
Antiskid device. C. F. A. Nuebling. 1,459,685; June 19.
Apron. A. M. Hifner. 1,459,101; June 19.
Arch support. M. R. Crossman. 1,459,015; June 19.
Arm, Artificial. D. M. Anderson. 1,458,923; June 19.
Armature backstop. C. H. Wheeler. 1,459,425; June 19.
Atomizer, Oil. P. H. Gentzel. 1,459,448; June 19.
Attaching device, Rear. G. A. Lyon. 1,459,227; June 19.
Auger, Expanding. A. Gesper. 1,459,366; June 19.
Ash receiver. J. W. Gibbons. 1,459,096; June 19.
Automobile bumper. F. J. Dains. 1,459,365; June 19.
Automobile bumper. J. S. and J. W. De Martini. 1,459,323; June 19.
Automobile chock blocks, Making. R. L. Hice. 1,459,055; June 19.
Automobile curtain. J. Siegel. Des. 62,557; June 19.
Automobile door. J. U. Carter. 1,459,281; June 19.
Automobile funnel. M. Thompson. 1,459,299; June 19.
Automobile gas lines, Lock for. D. M. Parkinson. 1,459,688; June 19.
Automobile hood rest. G. B. Holmes. 1,459,370; June 19.
Automobile radiators, Flushing attachment for. R. H. Wilkinson. 1,459,384; June 19.
Automobile rim tool. J. Reed and G. Washington. 1,459,294; June 19.
Automobiles, Automatic life protector for. M. Resk. 1,459,314; June 19.
Awning. T. Sonne. 1,459,480; June 19.
Awnings, Operating mechanism for. F. R. Ashley. 1,459,009; June 19.
Bag: *See*—
Fruit-picker's bag.
Bait, Artificial. J. L. Wrege. 1,459,042; June 19.
Bale ties, Machine for making. A. J. Gerrard and P. Wright. 1,459,623; June 19.
Banjo armrest. C. S. King. 1,459,591; June 19.
Bank, Savings. D. H. Wagar. 1,459,424; June 19.
Baskets, Machine for forming sheet-metal. T. Lennox. 1,459,224; June 19.
Batteries, Electrolyte for storage. H. Ellis, P. S. Hart, and W. G. Nunnelly. 1,459,659; June 19.
Battery: *See*—
Primary battery.
Bean-sorting machines, Feed device for. A. Rocheleau. 1,459,553; June 19.
Bearing cups, sleeves and the like, Device for pulling. C. H. Alexander. 1,459,131; June 19.
Bearing, Multiple-unit. H. A. S. Howarth. 1,459,468; June 19.
Bearing, Roller. L. Rouanet. 1,458,954; June 19.
Bearing, Thrust. E. M. Souvielle. 1,459,452; June 19.
Bearing, Thrust. H. R. Trotter. 1,459,454; June 19.
Bed, Invalid. C. F. Mehl. 1,459,112; June 19.
Bedspring. J. A. Dorn. 1,459,620; June 19.
Belt. E. S. Mix. 1,459,113; June 19.
Belt, Life saving. W. Paradowski. 1,459,245; June 19.
Belting. G. E. Perry. 1,459,690; June 19.
Benzine, applicable to impure benzines, Continuous sulphonation of. P. A. Barbet. 1,459,081; June 19.
Bicycle boat. G. Swan. 1,459,297; June 19.
Binder-blank-shaping mechanism. A. J. Kusterer. 1,459,107; June 19.
Bleaching apparatus. C. Taylor. 1,459,697; June 19.
Bleeding apparatus. R. F. Schneider. 1,458,958; June 19.
Block: *See*—
Building block.
Board: *See*—
Plaque board. Wall board.
Boat-propelling devices, Pump for. G. Gustafson. 1,459,330; June 19.
Bobbin holder. W. Reiners. 1,459,694; June 19.
Bodies, Forming annular. L. T. Frederick. 1,458,931; June 19.
Boiler: *See*—
Steam boiler. Water-tube boiler.
Boilers, Baffle wall for horizontal water-tube. F. C. Stimmel. 1,459,560; June 19.
Boiler-tube repair plug. H. N. McCathron. 1,459,542; June 19.
Boll-weevil exterminator. J. A. Harden. 1,459,626; June 19.
Book, Check. C. M. Cott. 1,459,702; June 19.
Book leaf, Detachable. C. W. McCall. 1,459,338; June 19.
Book, Loose-leaf. L. H. Middleton. 1,459,231; June 19.
Bookkeeping, Means employed in. E. R. Hering. 1,459,331; June 19.
Book match. C. L. Pfersch. 1,459,033; June 19.
Books, Machine for making match. G. Turner. 1,459,038; June 19.
Bottle cap. C. L. Nace. 1,459,477; June 19.
Bottle closure, Milk-. E. Dingman. 1,459,579; June 19.
Bottle-filling machine. G. A. Howe and J. L. Kosmann. 1,458,979; June 19.
Bottle holder. C. F. Shoenfelt, G. H. Cook, and F. H. Cook. 1,459,707; June 19.
Bottle scrubbing and washing machine. C. B. Van Horn. 1,459,643; June 19.
Bottles and the like, Safety receptacle for. C. B. Olsen, jr. 1,459,375; June 19.
Bottles, Apparatus for ejecting, accelerating, or controlling liquid discharge from. G. Clark. 1,459,282; June 19.
Bottles, Closure for milk. I. Davis. 1,459,443; June 19.
Box: *See*—
Display box. Miter box.
Mail box. Soap box.
Match box. Sound box.
Meter box. Switch box.
Box reenforcement. E. Miller. 1,459,309; June 19.
Bracket: *See*—
Bumper-attaching bracket.
Bracket. B. V. Czarnecki. 1,459,364; June 19.
Brake: *See*—
Service brake.
Brake. H. W. Muhleisen. 1,459,237; June 19.
Brake beam, Railway. S. A. Crone. 1,459,141; June 19.
Brake device. H. A. Cover and A. McKinney. 1,459,574; June 19.
Brake lock, Automatic. L. F. Hellmann and W. W. Baxter. 1,459,099; June 19.
Breast protector. M. V. Davis. 1,459,145; June 19.
Bromo-seltzer dispenser. J. J. Kegler. 1,458,942; June 19.
Brush, Fountain. P. L. Ferm. 1,459,021; June 19.
Brush and mop holder. A. J. Dubee. 1,459,582; June 19.
Buckle. J. Fach. 1,459,687; June 19.
Building block. G. A. Swanson. 1,459,189; June 19.
Building-wall construction. E. A. Rasmussen. 1,459,344; June 19.
Bumper-attaching bracket. W. E. Ericson. 1,458,927; June 19.
Burner: *See*—
Liquid-fuel burner. Oil burner.
Burner. T. F. Smith. 1,459,295; June 19.
Bushing. J. S. Kinney. 1,458,943; June 19.

Cabinet, Stationery. E. G. Robeson. 1,458,953; June 19.
Cables, Grounding box for electrical piloting. A. Crossley. 1,459,047; June 19.
Calculator. W. H. Butcher. 1,459,279; June 19.
Calendar, Perpetual. F. W. Orth. 1,459,236; June 19.
Camphor, Production of. W. T. Scheele. 1,458,993; June 19.
Can: *See*—
Garbage can. Paper can.
Can. F. P. Wood. 1,459,523; June 19.
Can-filling machine. C. H. Ayars. 1,459,492; June 19.
Can opener. L. D. Roberts. 1,459,261; June 19.
Cans and similar containers, Cover for cracker. H. Sebell. 1,459,266; June 19.
Candleholder. A. M. Hawley. Des. 62,553; June 19.
Cane and similar plants, Machine for cutting. J. Vilar y Pazos. 1,459,247; June 19.
Cap or the like, Distributor. W. S. Harley. 1,459,671; June 19.
Car, Articulated. H. M. Pflager. 1,459,250; June 19.
Car, Monorail. T. H. Wright. 1,459,386; June 19.
Car roof, Metal. C. D. Bonsall. 1,459,436; June 19.
Car ventilator. H. W. Leeds. 1,459,405; June 19.
Car wheel. W. R. Plitt and W. A. Lloyd. 1,459,691; June 19.
Car wheels, Mounting for mine-. A. R. Andersen. 1,459,134; June 19.
Cars and other vehicles, Suspension of motor. A. Diaz. 1,459,107; June 19.
Cars, Hand brake for railway. R. W. Burnett. 1,459,650; June 19.
Cars, Tool-box attachment for motor. A. W. Lovejoy. 1,459,337; June 19.
Carburizing hollow articles. H. W. McQuaid. 1,459,409; June 19.
Card register. J. Klatt. 1,459,538; June 19.
Cards for recording statistical and other information, Container for. A. E. Vago. 1,459,455; June 19.
Cards for statistic or similar purposes, Machine for effecting slots in. K. E. L. Liedstrand. 1,459,407; June 19.
Cargo carrier, Dumping. H. Van Scoy. 1,459,315; June 19.
Carrier: *See*—
Cargo carrier. Tire carrier.
Case: *See*—
Packing case. Toilet case.
Tire case.
Catch, Safety. O. T. Fenton. 1,459,526; June 19.
Cement walls, Facing for. F. A. Northwall. 1,459,684; June 19.
Cementing apparatus, Well-. W. J. Robertson and H. E. Becker. 1,459,345; June 19.
Ceramic article and making the same. M. C. Booze. 1,459,357; June 19.
Chain hook, Adjustable. O. E. Brown. 1,459,670; June 19.
Chain-link shoe. J. J. Dougherty. 1,459,091; June 19.
Chair. G. Daniels. Des. 62,545; June 19.
Chair iron. H. W. Bolens. 1,459,138; June 19.
Chaplet, Molder's. J. W. Bradley. 1,459,464; June 19.
Chart, Distance fare or wage. C. C. Bennett. 1,459,176; June 19.
Chute, Coal. E. F. Heming. 1,458,978; June 19.
Chute, Hog ringing and loading. B. R. Siglin. 1,458,996; June 19.
Cigarette-salvage case. H. J. Winans. 1,459,077; June 19.
Cinematographic projection screen. C. A. Proton and J. G. Bruyère. 1,459,603; June 19.
Clamp: *See*—
Rope-joining clamp. Service clamp.
Clamp. R. Elderton and C. D. Baldwin. 1,459,445; June 19.
Clamp. E. S. French. 1,459,093–4; June 19.
Clasp: *See*—
Corset clasp. Lingerie clasp.
Clasp. L. Jabner. 1,459,673–4; June 19.
Clasp or connecting device. C. Moss. 1,459,310; June 19.
Cleaner: *See*—
Vacuum cleaner. Windshield cleaner.
Window cleaner. Yarn cleaner.
Clock movements, Self-contained, removable power unit for. W. E. Porter. 1,459,343; June 19.
Clock stand and pad support, Combination. S. S. Morris. Des. 62,535; June 19.
Clothesline support. J. Pedersen. 1,459,115; June 19.
Clutch actuator and brake. W. F. Reineke. 1,459,258; June 19.
Cock, Angle. E. P. Clauss. 1,459,654; June 19.
Coke for metallurgical uses, Manufacture of. A. H. Bailie-Barrelle. 1,458,964; June 19.
Coke, Testing. M. D. Curran. 1,459,143; June 19.
Coloring matters, Manufacture of vat. F. Kačer. 1,459,536; June 19.
Combination tool. E. J. Hanson. 1,459,531; June 19.
Combustibles, Burner for liquid. C. Linké. 1,459,226; June 19.
Combustion apparatus. J. S. Andrews. 1,459,649; June 19.
Composite sheet material. O. D. Richardson. 1,459,259; June 19.
Concrete form. J. N. Heltzel. 1,459,207; June 19.
Concrete railway tie, Reenforced-. J. Kruttschnitt. 1,458,945–6; June 19.
Condensers, Air pump for. K. Baumann. 1,459,433; June 19.
Conduit, Multiple. W. C. Meredith. 1,459,476; June 19.
Confection and making the same. A. M. Alexander. 1,459,078; June 19.
Container closure. D. Bloom. 1,459,277; June 19.
Container, Foldable and collapsible. W. W. Woodworth. 1,459,459; June 19.
Container, Multiple-compartment. S. N. Reger. 1,459,257; June 19.
Containers and the like, Carrier for. H. Bell. 1,459,192; June 19.
Control switch, Multiple-. W. J. Spiro. 1,459,557; June 19.
Control system and apparatus. A. J. Hall and P. L. Mardis. 1,458,935; June 19.
Controlling apparatus. G. A. Knaak. 1,459,218; June 19.
Controlling system. L. M. Allen. 1,459,431; June 19.
Conveying apparatus. C. H. Plummer. 1,459,253; June 19.
Conveying machine. F. Wright. 1,459,524; June 19.
Cooker. T. A. Hodge. 1,459,466; June 19.
Cooking utensil, Electric. H. Kruesheld. 1,459,539; June 19.
Cooler: *See*—
Milk and butter cooler.
Copy holder. R. I. Kelleher. 1,459,334; June 19.
Cornerибs and the like, Wall structure for. J. H. Irey. Re15,630; June 19.
Corset. C. H. Schopbach. 1,458,995; June 19.
Corset. C. C. Seley. 1,459,518; June 19.
Corset clasp. W. Weinstein. 1,459,316; June 19.
Coupling: *See*—
Flexible coupling. Pipe coupling.
Coupon system for commodities. A. G. Uptegraff. 1,459,423; June 19.
Cranking device. A. Kuzmann. 1,459,222; June 19.
Crimper. Alice, Princess Andrew, of Greece. 1,459,132; June 19.
Crosstie. H. C. Tully. 1,459,168; June 19.
Crusher. D. J. Nevill. 1,459,340; June 19.
Crushing apparatus. J. E. Kennedy. 1,459,305; June 19.
Crutch. G. Hipwood. 1,459,333; June 19.
Cue. H. F. Davenport and M. J. Whelan. 1,459,144; June 19.
Cultivating and trench-forming apparatus, Interchangeable. J. R. Gardiner. 1,459,393; June 19.
Cultivator, Combination cotton. A. Ramirez. 1,459,256; June 19.
Cups, Carton support for drinking. W. E. Swift. 1,459,002; June 19.
Cushion wheel. S. T. Mechler. 1,459,633; June 19.
Cutter: *See*—
Glass cutter.
Cutter. R. H. Stambaugh. 1,459,296; June 19.
Cylinder, Engine. S. M. Viale. 1,459,039; June 19.
Dental articulators, Attachment for. J. Becker. 1,458,967; June 19.
Deodorizing material. O. F. Reinhold. 1,459,036; June 19.
Depolarizer. B. H. Teitelbaum. 1,459,698; June 19.
Detonator. J. Barab. 1,458,925; June 19.
Dice-casting container. H. R. Cossitt and J. Sinel. 1,459,196; June 19.
Diestocks, Adapter for. I. W. Nonnemann. 1,459,240; June 19.
Dining table. I. Cooklin. 1,459,086; June 19.
Disks from grinding wheels, Apparatus for removing abrasive. F. A. and M. D. Willard. 1,459,171; June 19.
Display box, Collapsible. H. S. Hirsch. 1,459,399; June 19.
Display cover. W. S. Wood. 1,459,647; June 19.
Display rack, Corrugated. G. C. Macdonald. 1,459,706; June 19.
Doll's voice. E. Halpern. 1,459,053; June 19.
Doorcheck. J. O. Nasilin. 1,459,238; June 19.
Doorways, Means for preventing drafts in. U. Kawasaki. 1,459,508; June 19.
Drag, Road. W. H. Van Vickle. 1,459,122; June 19.
Drain, Screened. T. C. Kunkel. 1,458,984; June 19.
Drawer and lock, Sliding. L. J. Diebold. 1,459,324; June 19.
Drawbar pocket. E. S. Beckette. 1,459,276; June 19.
Dress, Girl's. G. M. Stewart. Des. 62,540; June 19.
Drier. S. Kalisz. 1,459,211; June 19.
Drier. W. E. Prindle. 1,459,254; June 19.
Drilling machine, Portable. H. Colombelle. 1,459,195; June 19.
Dropper: *See*—
Liquid dropper. Medicine dropper.
Drying or otherwise treating material, Apparatus for and method of. F. T. Dow. 1,459,326; June 19.
Dump body. E. C. and E. S. Wills. 1,459,385; June 19.
Dust collector. J. W. Bosshart and E. W. Mackison. 1,459,610; June 19.
Dust collector. A. J. Wilharm. 1,459,008; June 19.
Elastic shaft connection. G. Lanzius. 1,459,223; June 19.
Elastic woven fabric. G. C. and T. F. Moore. 1,459,547; June 19.
Electric accumulators, Stopper for closing the containers of. F. Van de Wiel. 1,459,121; June 19.

Electric emergency lighting installation. P. Das. 1,459,283; June 19.
Electric heater. A. de Khotinsky. 1,459,049; June 19.
Electric iron. J. M. Seche. 1,459,451; June 19.
Electric light and power plant. P. Thamm. 1,459,563; June 19.
Electric-light device. C. L. Snyder. 1,458,999; June 19.
Electric switch. R. B. Benjamin. 1,459,494; June 19.
Electric switch. C. L. Voss. 1,459,520; June 19.
Electrical conductor system, Overhead. H. B. P. Wrenn and A. S. O'Donoghue. 1,459,174; June 19.
Electrical system. H. M. Stoller. 1,459,422; June 19.
Electron-discharge device. P. Schwerin. 1,459,417; June 19.
Electron-emitting cathode and making same. C. D. Hocker. 1,459,400; June 19.
Elevating apparatus, Vertical. G. D. Parker. 1,459,246; June 19.
Emptying device or emptier. G. M. Whitney. 1,459,485; June 19.
Engine: *See*—
Explosion rotating engine. Internal combustion engine.
Engine control device, Compressed-air-. M. Dajka. 1,459,375; June 19.
Engine starter. A. E. Buchenberg. 1,459,358; June 19.
Engine starter. E. I. Deutsch. 1,459,618; June 19.
Engine starter. W. H. Hutchins. 1,459,025; June 19.
Engines, Combined cooling and carbureting system for internal-combustion. A. J. Charlton. 1,458,974; June 19.
Engines, Fuel device for internal-combustion. I. Kodama. 1,459,306; June 19.
Engines, Humidifier for internal-combustion. W. H. Marshall. 1,459,183; June 19.
Engines, Ignition system for internal-combustion. G. Plumm. 1,459,252; June 19.
Engines, Piston for internal combustion. J. Wolk. 1,459,664; June 19.
Engines, Water circulator for gas. F. B. and V. J. Nims. 1,459,160; June 19.
Envelope. F. J. Parks. 1,459,414; June 19.
Envelope-feeding attachment. J. C. Gunderson. 1,459,179; June 19.
Envelope folder. J. H. Etheridge. 1,459,092; June 19.
Envelopes, Automatically manufacturing. F. J. Parks. 1,459,415; June 19.
Ethers, Producing normal and mixed. C. B. Carter and A. E. Coxe. 1,459,177; June 19.
Excavating machine. W. E. Trapnell and J. A. Easterwood. 1,459,481; June 19.
Explosion rotating engine. L. T. Poirmeur. 1,458,950; June 19.
Explosions in mines, Method of and means for extinguishing or smothering. H. Kruskopf. 1,459,677; June 19.
Eye-testing device. E. C. Bender and L. F. Graf. 1,459,353; June 19.
Fabric: *See*—
Elastic woven fabric.
Farm implement. C. Owens. 1,458,990; June 19.
Feeding device, Article-. N. H. Hawes. 1,459,367; June 19.
Fencepost, Metal. P. J. Schmalz. 1,459,116; June 19.
Fender: *See*—
Shock-absorbing fender.
Fibrous cellulose for the production of hydrated derivatives, Treatment of. C. F. Cross and E. J. Bevan. 1,459,616; June 19.
File holder. M. L. Carrier. 1,459,613; June 19.
Filing device for loose leaves. P. Teare. 1,459,298; June 19.
Firearm. G. S. Lewis. 1,459,108; June 19.
Firearms, Sight for. J. Declaye. 1,459,284; June 19.
Fire extinguisher. P. Brande. 1,458,972; June 19.
Fire extinguisher. W. J. Frisbie. Des. 62,534; June 19.
Fish and the like, Cooling and freezing of. J. J. Piqué. 1,458,991; June 19.
Fish-dressing tool. A. Wetzig. 1,459,007; June 19.
Fish slitting and cleaning machine. E. H. Waugh. 1,459,273; June 19.
Fishing reel. A. E. Avery. 1,459,567; June 19.
Flash-light batteries and lamps, Testing device for. W. Link. 1,459,336; June 19.
Flask: *See*—
Foundry flask.
Flexible coupling. C. Ralsig. 1,459,035; June 19.
Fluid-distributing manifold. A. D. Gaston. 1,459,150; June 19.
Foot, Artificial. E. M. Tracy. 1,459,564; June 19.
Foundry flask. D. C. Barrick. 1,459,137; June 19.
Foundry flask. H. C. Drumm. 1,459,197; June 19.
Fountain: *See*—
Holy-water fountain.
Fowl powderer. F. Van Ackeren. 1,459,349; June 19.
Frame: *See*—
Saw frame. Spinning frame.
Frame. W. J. Decker. 1,459,146; June 19.
Frames, Method of and apparatus for uniting the parts of vehicle. H. G. Westmore. 1,459,456; June 19.
Front drive. J. O. Schwartz. 1,459,639; June 19.
Fruit cans or the like, Locking device for. H. H. Ordung. 1,458,980; June 19.
Fruit-picker's bag. W. T. Minor. 1,459,599; June 19.
Furnace: *See*—
Puddling furnace.
Furniture, Convertible. J. Freeman. 1,459,201; June 19.
Fuse plug. J. B. Glowacki. 1,459,203; June 19.
Game. W. F. Cook. 1,459,615; June 19.
Game appliance. L. C. Brown. 1,459,389; June 19.
Garbage can, Sanitary. O. Gallucci. 1,459,622; June 19
Garden implement. P. D. Monica. 1,458,987; June 19.
Gas and powdered fuel, Regulation of combustion. T. A. Peebles. 1,459,072; June 19.
Gas cock. G. E. Pickup. 1,459,416; June 19.
Gas vent for containers. G. W. Bennett. 1,459,704; June 19.
Gases, Determining the composition of. L. D. and A. Williams. 1,459,127; June 19.
Gasoline tanks, Electric signal for. L. Gruzler. 1,459,154; June 19.
Gate. H. F. Guth. 1,459,505; June 19.
Gate and operating mechanism therefor. J. Lind. 1,459,631; June 19.
Gauge: *See*—
Pressure gauge.
Gear, Dumping. E. B. Hough. 1,459,209; June 19.
Generators, Apparatus for removing blast gases from water-gas. H. Knofel. 1,459,058; June 19.
Gilsonitic products. C. N. Forrest, H. P. Hayden, and O. R. Douthett. 1,459,328; June 19.
Glass cutter. H. W. Hill. 1,459,369; June 19.
Globes and the like, Base for terrestrial and celestial. E. H. Busch. Des. 62,543; June 19.
Glue, Blood-albumin. A. C. Lindauer. 1,459,541; June 19.
Golf, Appliance for teaching or practicing the game of. C. A. H. Bullock. 1,459,705; June 19.
Goods, Exhibitor for. M. Harlan. 1,459,532; June 19.
Governor, Centrifugal. E. W. Gent. 1,459,394; June 19.
Grain, Harvesting. C. W. Hart. 1,458,936; June 19.
Grain spouts, Indicator for. M. Bobeldyk. 1,459,463; June 19.
Grate. C. E. Howard. 1,459,467; June 19.
Grease dispenser. W. F. Stohlman. 1,459,606; June 19.
Grinding machine. L. W. Bugbee. 1,459,569; June 19.
Hair curler. O. D. McClintock. 1,459,228; June 19.
Hammer adjustment. J. K. Blum. 1,459,568; June 19.
Hammer, Die-forging. J. and J. D. Latta. 1,459,592; June 19.
Hanger: *See*—
Suit hanger.
Hanger. J. Kohn. 1,459,471; June 19.
Harrow. C. W. Carper. 1,459,571; June 19.
Harvesting machine, Flax-. T. Kreipe. 1,459,060; June 19.
Hats, Means for making fringe for ladies'. L. Krause. 1,459,472; June 19.
Headlight, Dirigible. C. C. Smith. 1,459,268; June 19.
Headlight plug. O. L. Carr. 1,459,651; June 19.
Heater: *See*—
Electric heater.
Orchard heater. Weatherproof electric heater.
Liquid heater.
Heat-exchange apparatus. H. L. Hartburg. 1,459,024; June 19.
Heat differentiation, Method of and apparatus for. R. Vuilleumier. 1,459,270; June 19.
Heating unit, Electric. C. A. Laise. 1,459,307; June 19.
Hoist, Portable power. R. A. Norling. 1,459,082; June 19.
Hoist tower for building operations. A. F. Walther. 1,459,123; June 19.
Holy-water fountain, Pocket. V. G. Matre. 1,459,230; June 19.
Hook: *See*—
Chain hook. Reed hook.
Hook. G. M. Wofford and J. A. Bristow. 1,459,488; June 19.
Horse protector. E. M. Orstad. 1,459,601; June 19.
Hose, Flexible metal. E. Witzenmann. 1,459,487; June 19.
Hose, Safety gas. F. G. Henning. 1,459,100; June 19.
Hose supporter. S. E. McCreary. 1,458,986; June 19.
Hosiery and making same. G. P. Bosworth. 1,459,496–7; June 19.
Hub and wheel holding device. E. P. Miller. 1,459,597; June 19.
Humidity indicating and regulating device. H. P. Clausen. 1,459,391; June 19.
Hydraulic ejector. A. R. Griesemer. 1,459,153; June 19.
Hydraulic jack. H. W. Armstrong. 1,459,432; June 19.
Ice-cream scoop. M. P. Rodopulos. 1,459,638; June 19.
Ice tongs. O. R. Meinholdt. 1,459,339; June 19.
Ignition systems, Testing device for. C. W. Morgan. 1,459,114; June 19.
Illuminating appliance. W. A. Dorey. 1,459,325; June 19.
Indicator: *See*—
Load indicator. Speed indicator.
Induction coil, Self-. R. R. Herrmann. 1,459,397; June 19.
Inner tube. J. C. Wise. 1,459,172; June 19.
Insect destroyer. R. O. Heggelund. 1,459,396; June 19.
Instruments, Means for protecting negotiable. A. E. Miller. 1,459,634; June 19.
Internal-combustion engine. E. Lanzerotti-Spina. 1,459,630; June 19.

Internal-combustion engine. A. Schaefer. 1,459,479; June 19.
Internal-combustion engine, Double-acting. G. J. Lugt. 1,459,680; June 19.
Iron: *See*—
Chair iron. Electric iron.
Jack: *See*—
Hydraulic jack. Pawl and ratchet jack.
Jar attachment. A. E. Wittig. 1,459,129; June 19.
Jar closure. A. Stark. 1,459,558; June 19.
Kiln, Rotary lime-burning. M. Hermann. 1,459,302; June 19.
Knee support, Adjustable. W. Graupe. 1,458,933; June 19.
Knife, Planer. J. Himes. 1,459,398; June 19.
Knitted fabric. H. Guttman. Des. 62,551–2; June 19.
Knitting machine. C. Apfel. 1,459,352; June 19.
Knitting machine and forming reenforcements. R. H. Lawson. 1,459,157; June 19.
Knitting machine, Internal-welt-. R. Fenn. 1,459,446; June 19.
Ladder. F. Veniero. 1,459,350; June 19.
Lamp. H. S. Johnson. 1,459,104; June 19.
Lamp, Electric. A. W. Becker. 1,459,083; June 19.
Lamp lock. R. E. Stouffer. 1,459,562; June 19.
Lamp socket, Focusing-. F. H. Wetzel. 1,459,700; June 19.
Lamp stand. E. G. Perkins. 1,459,249; June 19.
Lamp with signal pane and compass, Electric pocket. F. Yokoyama. 1,459,274; June 19.
Lamps, Attachment for electric. L. Schmidt. 1,458,994; June 19.
Lamps, Attachment for miner's. G. Date. 1,459,576; June 19.
Last, Combined link and hinge. W. A. Krentler. 1,459,061; June 19.
Latch, Door. O. D. Willis. 1,459,701; June 19.
Lathes, Attachment for. J. C. Olsen. 1,459,514; June 19.
Laundry-sorting appliance. A. F. Hanney. 1,459,205; June 19.
Lawn and garden sprinkling apparatus. A. K. Brauer. 1,459,012; June 19.
Leaches, Heating apparatus for. W. H. Johns. 1,459,629; June 19.
Leg, Artificial. W. E. Morrison and K. Korpelainen. 1,459,235; June 19.
Lens. M. A. Laabs. 1,459,373; June 19.
Lens-protecting composition. E. D. Tillyer. 1,459,380; June 19.
Level, Spirit. J. Von Serkey. 1,459,381; June 19.
Lifter: *See*—
Valve lifter.
Lifting apparatus. F. E. Shepherd. 1,459,556; June 19.
Lifting device. F. G. Cline. 1,459,655; June 19.
Light: *See*—
Aisle light.
Light fixture. E. A. Anderson. Des. 62,542; June 19.
Light reflector. C. E. Kistner. 1,459,372; June 19.
Lingerie clasp. A. J. Wagner. 1,459,382; June 19.
Liquid container. F. O. Williams. 1,459,191; June 19.
Liquid dropper. J. Turner, jr. 1,459,642; June 19.
Liquid-fuel burner. G. T. Underwood. 1,459,482; June 19.
Liquid-fuel vaporizer. S. G. House. 1,459,507; June 19.
Liquid heater, Electric immersion. S. Abel. 1,459,665; June 19.
Liquid meter. R. S. Bassett. 1,458,965; June 19.
Liquids, Device for heating, pasteurizing, and evaporating. M. C. Mabee. 1,459,182; June 19.
Load indicator. H. R. Hughes. 1,459,102; June 19.
Lock: *See*—
Brake lock. Vault temporary lock.
Lamp lock.
Lock. C. A. Habenicht. 1,459,290; June 19.
Lock. A. W. Morris. 1,459,234; June 19.
Lock. T. A. Wiseman. 1,459,128; June 19.
Lock cock, Automatic. J. T. O'Gorman. 1,459,686; June 19.
Lock mechanism. O. J. Ericsson. 1,459,584; June 19.
Locomotive fire grate. J. G. Ellis and G. W. Mingle. 1,459,288; June 19.
Loom for weaving tufted fabrics. A. Davis. 1,458,976; June 19.
Looper. H. A. Cumfer. 1,459,048; June 19.
Lubricating system. C. W. Manzel. 1,459,662; June 19.
Magnetic separator. A. Dings. 1,459,147; June 19.
Mail box. T. F. Murphy. 1,459,031; June 19.
Manicure article, Handle for a. J. Salm. Des. 62,555–6; June 19.
Manure, Refining organic matter used as. M. Krantz 1,459,059; June 19.
Match box. A. Z. Brook. 1,459,278; June 19.
Match case. S. Sprague. 1,459,696; June 19.
Match scratcher. J. A. Patterson. 1,459,550; June 19.
Match stand, inkstand, ash bowl, and like article. A. H. Guest. 1,459,023; June 19.
Matches, Machine for packing. E. Snyder. 1,459,037; June 19.
Mattress, Sectional. E. Labenz. 1,459,540; June 19.
Measuring appliance, Electric. G. Keinath. 1,459,213; June 19.
Measuring instrument. P. MacGahan. 1,458,947; June 19.
Measuring products of two variable quantities, Apparatus for. G. W. Watson. 1,459,644; June 19.
Medicine dropper. C. Berens, jr. 1,459,354; June 19.
Mercury fulminate manufacture, Recovery of by-products in. R. C. Moran. 1,459,410; June 19.
Metal-casing wheel. C. Blackwell. 1,458,971; June 19.
Metal propeller. H. Leitner. 1,459,335; June 19.
Meter: *See*—
Liquid meter
Meter box. C. W. Blue. 1,459,462; June 19.
Meters, Rate-of-flow indicator for. W. Kath. 1,459,212; June 19.
Micrometer caliper height and surface gauge. F. B. Cady. 1,459,500; June 19.
Milk and butter cooler, Sanitary. J. A. Morton. 1,459,184; June 19.
Milking machine. W. A. Shippert. 1,459,420; June 19.
Milling and turning machine, Combined. J. D. Kohlmann. 1,458,944; June 19.
Milling machine for continuous milling. J. T. Patton and J. E. McAllister. 1,459,248; June 19.
Miter box. H. Poole and G. P. Romain. 1,458,951; June 19.
Mixer. T. G. Dempsey. 1,459,657; June 19.
Mixing and beating device. A. I. Flynt. 1,459,148; June 19.
Mixing apparatus. W. Clauson. 1,458,975; June 19.
Molding machine. W. P. Krause. 1,459,221; June 19.
Money cheats and the like, Mold for manufacturing. W. K. Thörig. 1,459,120; June 19.
Mop. T. J. Finton. 1,459,525; June 19.
Motor cycles, Side car of. J. A. Yeats and A. S. Swan. 1,459,387; June 19.
Motor system with direct transmission. R. Esnault-Pelterie. 1,459,019; June 19.
Motorists, Refreshment booth for. J. K. Hockaday. 1,459,628; June 19.
Mowers, Guard for lawn. W. E. Quimby. 1,459,034; June 19.
Music-leaf turner. S. Trachtenberg. 1,458,959; June 19.
Music-roll container. C. S. Burton. 1,459,439; June 19.
Musical instruments, Bridge for stringed. J. G. Jones. 1,459,057; June 19.
Nut, Cap. D. B. Morison. 1,459,548; June 19.
Nut cracker, sheller, and separator. J. H. Austin. 1,459,609; June 19.
Oil burner. A. M. Allen. 1,459,133; June 19.
Oil burners, Automatic cut-off for. L. E. French. 1,459,149; June 19.
Oil indicator and pump primer. G. F. Madden. 1,459,681; June 19.
Oil purifier, Combustion-engine. J. Good. 1,459,301; June 19.
Oil shales, Process and apparatus for treating. W. K. Kirby. 1,458,983; June 19.
Oils and other hydrocarbon-containing material, Distillation and cracking of mineral. N. V. S. Knibbs. 1,459,156; June 19.
Oils, Apparatus for cracking. W. B. D. Penniman. 1,459,515; June 19.
Oiling device. D. E. Lewellen. 1,459,679; June 19.
Oiling system, Force-feed. G. L. Wahl. 1,459,484; June 19.
Ophthalmic mounting. F. A. Stevens. 1,459,348; June 19.
Orchard heater. W. C. Scheu. 1,459,076; June 19.
Ores, Concentrating. R. V. Smith. 1,459,167; June 19.
Oxides, Reducing metallic. E. B. Pratt. 1,459,187; June 19.
Package-structure and making same. H. de Escobales. 1,458,977; June 19.
Packer, flowhead, and pumping device, Automatic. G. C. Henshaw and W. H. Myers. 1,459,368; June 19.
Packing case. W. K. Dean. 1,459,017; June 19.
Packing device. S. E. Flitner. 1,459,300; June 19.
Pail closure. S. M. Johnson. 1,459,469; June 19.
Paper box. H. M. Levy. 1,459,225; June 19.
Paper can. L. D. Roberts. 1,459,260; June 19.
Paper carton. J. Loufek. 1,459,110; June 19.
Paper, Carton for folded tissue. L. J. Arms. 1,459,275; June 19.
Paper, Machine for operating on. H. G. Widmer. 1,459,041; June 19.
Paper making machines, Cleaning device for. C. F. Roberts. 1,459,161; June 19.
Paper-roll plug. E. H. Mayo. 1,459,596; June 19.
Paper rolls, Sleeve adapted to serve as core for. K. F. L. Norström. 1,459,241; June 19.
Paper, Safety. R. Ruzicka. Des. 62,538; June 19.
Pawl and ratchet jack. J. H. Burkholder. 1,459,194; June 19.
Pedestal. L. Zunino. Des. 62,558; June 19.
Pen and pencil holder. T. C. Sawyier. 1,459,517; June 19.
Pen, Self-filling fountain. S. E. Peters. 1,459,073; June 19.
Percolator. J. Koenig and W. H. Ellis. 1,459,289; June 19.
Pharmaceutical product. E. Starkenstein. 1,459,347; June 19.
Phonograph and sound-character-exhibiting device, Combined. E. A. Widmann and F. D. Lewis. 1,459,426; June 19.
Phonograph cabinet. W. A. Sommerhof. 1,459,000; June 19.
Phonograph-record cleaner and clarifier. J. O'Donnell, jr. 1,459,549; June 19.

Phonograph reproducer. A. W. Schreiner. 1,459,605; June 19.
Pianos or organs, Tracker board for player. P. H. Billhuber. 1,459,355; June 19.
Pianos, Tremolo for. H. F. Schennit. 1,459,378; June 19.
Picture machines, Fire protector for moving. J. G. Pettersson. 1,459,551; June 19.
Pie machine. D. W. Smith. 1,459,166; June 19.
Pipe. J. E. Dodd. 1,459,619; June 19.
Pipe-cleaning device. A. P. Gulliver. 1,459,625; June 16.
Pipe coupling. C. Seng. Re15,632; June 19.
Pipe-flange protector. E. Widiger. 1,459,126; June 19.
Pistols having removable barrels, Means for securing the barrels of. J. Declaye. 1,459,285; June 19.
Pistols, Movable breech for automatic. J. Declaye. 1,459,286; June 19.
Piston rings, Machine for making. H. R. Seifert. 1,459,117; June 19.
Pivot retainer. H. O. Hem. 1,459,449; June 19.
Plane. H. H. Hardinge. 1,459,206; June 19.
Planter. M. F. Hansen. 1,459,097; June 19.
Plaque board. A. L. Bausman. 1,458,966; June 19.
Plaque or ornament. C. T. Collins. Des. 62,559; June 19.
Plate or similar article. W. De Ville. Des. 62,546–50; June 19.
Platform, Movable unloading. H. Arnstein and C. M. Mardel. 1,459,080; June 19.
Pliers. R. Buker. 1,459,612; June 19.
Plumbing system. J. A. Felton. 1,459,585; June 19.
Pneumatic tube, Reenforced ribbed. L. W. Hottel. 1,459,401; June 19.
Pocketbook. S. J. Prokesch. 1,458,952; June 19.
Pole support. J. M. Brand. 1,459,438; June 19.
Polishing composition. A. C. Houseworth. 1,459,056; June 19.
Polishing machine, Knife-. J. S. Black. 1,459,085; June 19.
Power-transmission mechanism. A. A. Densmore. 1,459,578; June 19.
Power-transmission mechanism. W. I. Wheeler. 1,459,125; June 19.
Preserving food products. E. Milani. 1,459,232; June 19.
Press: *See*—
Printing press.
Pressure-controlling device. V. L. Adams. 1,459,666; June 19.
Pressure gauge. C. R. Crosno. 1,459,014; June 19.
Pressure regulator, High-. C. H. Dockson. 1,459,501; June 19.
Primary battery. M. L. Martus. 1,459,512; June 19.
Printed form, Manifold. A. S. Gilman, C. S. Bennett, and F. W. Kiesling. 1,459,151; June 19.
Printing plate and making the same. F. H. Berold. 1,459,669; June 19.
Printing press. C. G. Pritchard. 1,459,312; June 19.
Printing presses, Gauge for. A. and E. Kluge. 1,459,105; June 19.
Projectile. L. A. Dunaieff. 1,459,198; June 19.
Projectile. R. T. Newton. 1,459,600; June 19.
Projectiles, Fuse for artillery and aviation. L. E. Remondy. 1,459,075; June 19.
Propeller shafts, Method of and apparatus for removing and replacing bearing sleeves of. L. Ullman. 1,459,269; June 19.
Puddling furnace. H. D. Hibbard. 1,459,533; June 19.
Pump. F. H. Cole. 1,459,360; June 19.
Pump. A. J. Trigwell. 1,459,453; June 19.
Pump, Rotary. G. Rathman. 1,459,552; June 19.
Pumps and the like, Cup packing for. P. J. Knothe. 1,459,509; June 19.
Pumps, Operating attachment for lift. G. Mallan. 1,459,632; June 19.
Pumping water, Walking-beam system for. J. A. Wilson. 1,459,645; June 19.
Pumpkin-peeling machine. H. Sletto. 1,458,998; June 19.
Punch presses, Guard for. F. J. Ruggiero. 1,459,162; June 19.
Punching machine. L. A. M. Corset. 1,459,320; June 19.
Rack: *See*—
Display rack.
Radiator air-circulation-control device. E. H. Birdsall. 1,459,318; June 19.
Radiator construction. R. C. Glover. 1,459,503; June 19.
Radiator cover. E. D. Linde. 1,459,593; June 19.
Radiator, Gas. W. H. Cain. 1,459,390; June 19.
Radiators, Welding. J. W. Guimont. 1,458,934; June 19.
Radiotelephone system, Carrier. H. W. Nichols. 1,458,949; June 19.
Rail anticreeper. B. B. Betts. 1,458,970; June 19.
Rail joint. S. Morylin. 1,459,682; June 19.
Railway switch and rail. I. J. Fernekes. 1,459,022; June 19.
Ranges, Air-inlet control for combination coal and gas. C. F. Wiley. 1,459,383; June 19.
Ranges, Guard for oil. R. P. and A. Greenburg. 1,459,624; June 19.
Razor-blade holder, Safety-. G. Lindell. 1,459,028; June 19.
Razor blades, Grinding device or sharpening device for. F. Kirsten. 1,459,676; June 19.
Razors, Apparatus for sharpening. B. P. J. de Jongh. 1,459,617; June 19.
Receptacle closure. E. Hoffman. 1,459,588–9; June 19.
Receptacle closure and seal. G. S. Bowman. 1,459,437; June 19.
Receptacle closures, Machine for making retaining rings for. A. V. Feeten. 1,459,660; June 19.
Receptacle cover. J. I. Russakov. 1,458,955; June 19.
Receptacle, Dispensing. E. Schmidt. 1,459,450; June 19.
Receptacle, Hot-slag. E. E. James. 1,459,675; June 19.
Receptacles to contain liquids and means for sealing the same, Mouthpiece for. S. D. Garbis. 1,458,932; June 19.
Recording instrument. C. E. Cox. 1,459,087; June 19.
Records, Album for disk. W. Wilburger. 1,459,457; June 19.
Reed hook. F. J. Heine. 1,459,463; June 19.
Reel: *See*—
Fishing reel.
Refrigerator. C. G. Card. 1,459,280; June 19.
Register: *See*—
Card register.
Regulator: *See*—
Pressure regulator. Thermionic regulator.
Resilient wheel. P. de Pfyffer. 1,459,089; June 19.
Resilient wheel. S. Yankauer. 1,459,565; June 19.
Rheostat. A. P. Morgan. 1,459,070; June 19.
Rim fastener, Demountable. N. Greisch. 1,459,204; June 19.
Rims, Shim plate for demountable. A. E. Shea. 1,459,346; June 19.
Ring. F. A. Shimp. Des. 62,539; June 19.
Rock crusher. W. R. Young. 1,459,130; June 19.
Rod: *See*—
Sheet-metal radius rod.
Roll-gauging machine. J. F. Flaherty. 1,458,929; June 19.
Roller distributor. J. M. López. 1,459,109; June 19.
Rope fastener. L. A. Girot. 1,459,320; June 19.
Rope-joining clamp. E. Saundry. 1,459,265; June 19.
Rotary machine. M. J. Paget. 1,459,037; June 19.
Rubber-cushion wheel. E. H. Aitkens. 1,459,430; June 19.
Saddle, Harness. J. D. Keller. 1,459,214; June 19.
Safety holder. M. Abrahams. 1,459,429; June 19.
Sales-book cover. F. Hachmann. 1,459,506; June 19.
Salt and the like, Preparing. H. W. Bartlett. 1,459,082; June 19.
Sanitary drinking device. H. Oziek. 1,459,311; June 19.
Sausage linking and twisting device. F. Kruse. 1,459,063; June 19.
Sausage-twisting device. F. Kruse. 1,459,062; June 19.
Sausage-twisting device. F. Kruse. 1,459,064–8; June 19.
Sausages, Method and machine for forming. F. Kruse. 1,459,069; June 19.
Saw frame. D. P. Buckley. 1,459,359; June 19.
Saw, Reciprocating. I. H. Sandage. 1,459,604; June 19.
Saws and other articles, Centering and clamping means for. G. L. Norris. 1,459,683; June 19.
Scale. C. D. Scott. 1,459,188; June 19.
Scale, Illuminating weighing. S. G. Crane. 1,459,441; June 19.
Score or bulletin board. P. C. Oscanyan. 1,459,341; June 19.
Scouring device. L. Graham. 1,459,152; June 19.
Scraper, Floor. F. I. Kimball. 1,459,216; June 19.
Screen: *See*—
Cinematographic projection Window screen.
screen.
Screw-bolt-nut-tightening means. P. A. Johnson. 1,459,402; June 19.
Screw driver. T. B. Powers. 1,459,708; June 19.
Separator: *See*—
Magnetic separator.
Separator. E. D. McWhorter and A. A. Bennett. 1,459,594; June 19.
Service brake. R. Huff. 1,459,304; June 19.
Service clamp. P. Mueller. 1,459,030; June 19.
Sewing machine. R. R. Hughes, jr. 1,459,103; June 19.
Sewing machine, Buttonhole-. B. F. Leneque. 1,459,374; June 19.
Sewing machine, Wax-thread. F. E. Bertrand. 1,459,388; June 19.
Sewing machines, Feeding mechanism for. S. G. Tate. 1,459,119; June 19.
Shade and curtain support, Double window. J. Wloszek. 1,459,173; June 19.
Shade-roller and curtain-pole fixture, Combined. J. C. Boyden. 1,459,611; June 19.
Shades and curtains, Support for window. P. Piotrowski. 1,459,342; June 19.
Shank stiffener. W. H. Nickerson. 1,459,239; June 19.
Sharpener, Knife. K. W. Heyman. 1,458,938; June 19.
Sharpening machine, Razor-blade-. T. Czelusniak and L. Chodubski. 1,459,653; June 19.
Shears, Sharpening machine for. O. F. Downey and C. L. Benson. 1,459,580; June 19.
Sheet-metal radius rod. R. P. Simmons. 1,459,519; June 19.
Shield and package carrier, Combined. J. E. McGee. 1,459,111; June 19.

Shipping deck. J. C. McComas. 1,459,511; June 19.
Shock absorbing fender. W. G. Cox. 1,459,652; June 19.
Shoes, Apparatus for repairing. R. Wojan. 1,459,458; June 19.
Signal. C. L. Fitz. 1,459,586; June 19.
Signaling apparatus. D. G. McCaa. 1,459,308; June 19.
Signaling, Multiplex. B. W. Kendall. 1,459,709; June 19.
Signaling system. C. W. Keckler and W. B. Strickler. 1,459,403; June 19.
Silos, Process and device for emptying beetroot. K. Foische. 1,459,621; June 19.
Siren, Ship. J. J. Krause. 1,459,220; June 19.
Skate and making the same. C. B. Drevitson. 1,459,050; June 19.
Sled. S. S. Griffin. 1,459,528; June 19.
Slide-operating mechanism. G. R. Pennington and S. K. Wellman. 1,459,185; June 19.
Sludge, Treating acid. O. Bezanson. 1,459,084; June 19.
Soap box, Sanitary. E. J. Kendall. 1,458,982; June 19.
Soap tray, Sanitary. J. G. Andrews. 1,459,043; June 19.
Socket wrench. J. Sayer. 1,458,956; June 19.
Sound box. A. A. Dennis. 1,459,577; June 19.
Sound recording and reproducing apparatus. J. K. Delano. 1,459,088; June 19.
Spacer, Bar. W. E. White. 1,458,960; June 19.
Spacing mechanism. H. A. Foothorap. 1,459,200; June 19.
Spark plug. J. G. Gavlak. 1,459,447; June 19.
Spark plug. A. S. Shima. 1,459,379; June 19.
Speed indicator. A. Mélotte. 1,459,292; June 19.
Spindle-driving mechanism. J. F. Flaherty. 1,458,930; June 19.
Spinning frame. C. A. Pierce. 1,459,251; June 19.
Spinning frames, Roving stop motion for. G. K. Kapatas. 1,458,980; June 19.
Spinning machine, Arrangement for drawing frames in. F. Cesoni and A. Lirussi. 1,459,572; June 19.
Spokes, Making. J. H. Wagenhorst. 1,459,169; June 19.
Spraying machine. J. Paschall. 1,459,689; June 19.
Spring compressor. C. A. Prescott. 1,459,692; June 19.
Spring-forming machine. T. F. Buckley. 1,459,045; June 19.
Spring manufacture. N. E. Hendrickson. 1,459,208; June 19.
Spring wheel. L. L. Culver and G. W. Horjes. 1,459,363; June 19.
Stacker, Wheat. H. F. Von Engeln. 1,459,271; June 19.
Stamp-affixing device. N. Miller. 1,459,636; June 19.
Stand: *See*—
Lamp stand.
Stapling machine. P. B. Eytchison. 1,459,020; June 19.
Starting switch. J. Galamb. 1,459,051; June 19.
Steam boiler. J. S. Andrews. 1,459,648; June 19.
Steel as an article of manufacture, Forgeable. L. P. Burrows. 1,459,570; June 19.
Steering attachment for sleds. W. I. Rogers. 1,459,263; June 19.
Steering wheel. C. A. Donaldson. 1,459,090; June 19.
Steering wheel. E. H. Vincent. 1,459,040; June 19.
Steering wheel, Tilting. P. S. Bauer. 1,459,493; June 19.
Stem stripper. F. Minami. 1,459,598; June 19.
Stock waterer. C. L. Cruzen and C. E. Gay. 1,459,142; June 19.
Stocking. A. Junker. 1,459,590; June 19.
Stop mechanism. H. J. Boe and B. J. Egert. 1,459,435; June 19.
Storage tank. O. S. Flath. 1,459,327; June 19.
Stove. E. R. Stephens. 1,459,559; June 19.
Stove, Cooking. M. A. Keller. 1,458,981; June 19.
Stove top. C. E. Johnson. 1,459,210; June 19.
Stylus levers, Mounting for. G. W. Slight. 1,459,695; June 19.
Suit hanger. W. F. Wagner. Re15,628; June 19.
Superphosphate, Continuous process of making. H. A. Webster. 1,459,124; June 19.
Supporting device. R. C. Kleffman. 1,459,404; June 19.
Switch: *See*—
Control switch. Starting switch.
Electric switch.
Switch box. A. E. Fohn. 1,459,502; June 19.
Switches, Switch rod for slip. J. B. Strong. 1,459,001; June 19.
Table: *See*—
Dining table.
Talking machines, Stop for. A. Subic. 1,459,640; June 19.
Talking machines, Stop for. J. C. Wood. 1,459,646; June 19.
Tank: *See*—
Storage tank.
Tapping machine, Automatic multiple-. P. Meyer. 1,458,948; June 19.
Telegraphone, Sensitizing the. L. F. Fuller. 1,459,202; June 19.
Telephone-exchange system. F. Aldendorff. 1,459,175; June 19.
Telephone-exchange system. L. Polinkowsky. 1,459,186; June 19.
Telephone system, Measured-service automatic. T. G. Martin. 1,459,229; June 19.
Tent, Fumigation. E. A. Klein. 1,459,217; June 19.
Testing the fading action of light, Apparatus for. C. W. Jameson. 1,458,941; June 19.
Textile fabric. J. S. and J. F. Boyd. Des. 62,531; June 19.
Textile fabric. E. Ericson and R. Weiss. Des. 62,533; June 19.
Textile fabric. C. E. Lord. Des. 62,554; June 19.
Therapeutical apparatus. K. Yamada. 1,459,489; June 19.
Thermic processes of any kind, Process and apparatus for performing. A. Hlorth. 1,459,627; June 19.
Thermionic regulator. P. I. Wold. 1,459,427–8; June 19.
Thermionic translating device. A. M. Nicolson. 1,459,412; June 19.
Thermostat. H. F. Banan. 1,458,924; June 19.
Thimble construction. W. W. Grobe. 1,459,530; June 19.
Ticket-distributing systems, Conveyer for. H. M. Otto. 1,459,413; June 19.
Tie: *See*—
Concrete railway tie.
Timer. E. J. Lee. 1,459,678; June 19.
Tire. M. T. Conroy. 1,459,362; June 19.
Tire, Automobile. W. A. Brubaker. Des. 62,532; June 19.
Tire carrier. F. A. Lane. 1,459,473; June 19.
Tire case. G. E. Bloss. 1,459,319; June 19.
Tire changer. G. R. Hudson and F. M. Culp. 1,459,303; June 19.
Tire, Cushion. J. A. X. Burgos. 1,458,926; June 19.
Tire, Pneumatic. T. Griffiths. 1,459,529; June 19.
Tire, Resilient. R. Iredell. Des. 62,536; June 19.
Tire tool. B. J. Young. 1,459,490; June 19.
Tire tread. H. D. Reichard. Des. 62,537; June 19.
Tire tread, Detachable. E. A. Parker and H. G. Evitt. 1,459,376; June 19.
Tires, Air tube for pneumatic. T. B. McLeroth. 1,459,544; June 19.
Tires, Manufacture of cord. W. O'Neil. Re15,631; June 19.
Tires, Means for making pneumatic. J. F. Palmer. 1,459,244; June 19.
Tires, Reenforcing strip for. M. B. Peeples. 1,459,377; June 19.
Tires, Splitting cord. W. M. Rand. I. C. Brook and F. C. Butler. 1,459,693; June 19.
Toilet case. E. M. Klebba. 1,459,181; June 19.
Toilet kit. M. A. Peterson and M. Hook. 1,459,602; June 19.
Tongs, Lazy. J. G. Cornell. 1,459,656; June 19.
Tool. S. T. Williams. 1,458,961; June 19.
Tool holder and tool. G. W. Bufford. 1,458,973; June 19.
Torch. C. C. C. Eggers. 1,459,658; June 19.
Torch, Decarbonizing. R. R. Beezley. 1,458,968; June 19.
Toy. F. W. Marheine. 1,459,475; June 19.
Toy, Figure. E. S. Showers. 1,459,118; June 19.
Toy whistle. J. Yost. Des. 62,341; June 19.
Track structure. L. P. Chicoine. 1,459,140; June 19.
Traction mechanism. I. H. Athey. 1,458,962; June 19.
Tractor. R. J. Aultman. 1,458,963; June 19.
Tractor. E. S. Cole. 1,459,361; June 19.
Tractor, Farm. J. L. Allen. 1,459,608; June 19.
Tractor transmission. G. J. Ziegler. 1,459,491; June 19.
Tractor wheel. G. J. Walker. 1,459,190; June 19.
Tractor-wheel fluke. C. W. Hart. 1,458,937; June 19.
Tractors, Scraper attachment for. E. J. Andrews. 1,459,566; June 19.
Trailer. H. Wenneborg. 1,459,521; June 19.
Train pipes, Coupling mechanism for. L. M. King. 1,459,537; June 19.
Train-speed control, Automatic. M. E. Hamilton and W. H. Johnson. Re15,633; June 19.
Train stop. W. Maxwell and L. A. Barker. 1,459,029; June 19.
Transmission and brake mechanism. M. F. Judd. 1,459,470; June 19.
Transmission mechanism. C. E. Kocher. 1,459,026; June 19.
Transmission over lines of different electrical characteristics, Means for equalizing. L. F. Morehouse. 1,458,988; June 19.
Transmission over lines of different electrical characteristics, Means for equalizing. G. K. Thompson. 1,459,003–5; June 19.
Transmission system. D. G. Blattner. 1,459,434; June 19.
Trap: *See*—
Animal trap.
Trapshooting, Target-throwing device for. C. H. Slusher. 1,459,421; June 19.
Trolley-wheel guard. J. Trunko. 1,459,663; June 19.
Trough, Hog. W. Hird. 1,459,535; June 19.
Trousers. A. H. Bricker. 1,459,498; June 19.
Trousers protector. P. Topfner. 1,459,641; June 19.
Truck, Lifting. A. M. Barrett. 1,459,044; June 19.
Tube: *See*—
Inner tube.
Tube, Inhaling. W. A. Page. 1,459,478; June 19.
Tubes, Apparatus for making lap-welded. J. H. Matheson. 1,459,595; June 19.
Tubes, Pressure regulator and cut-off for inflating. R. C. Fancher. 1,458,928; June 19.
Turbine, Fluid. D. Koehler. 1,459,510; June 19.

Typewriting machine. H. Schweitzer. 1,459,554; June 19.
Typewriting machines, Ribbon mechanism for. H. A. Foothorap. 1,459,199; June 19.
Urethroscope, Operating. S. Reisler and H. B. Tobias. 1,459,313; June 19.
Vacuum cleaner. J. T. Hume. 1,458,939; June 19.
Valve. L. F. O'Flaherty and W. L. Kirkpatrick. 1,459,242–3; June 19.
Valve. F. Yardley. 1,459,460; June 19.
Valve and the like, Air. J. M. McDonald. 1,459,543; June 19.
Valve for feed-water heaters, Combination regulating. K. W. Rohlin. 1,459,516; June 19.
Valve for the separation of two immiscible liquids, Automatic float. G. M. Whitney and J. F. Fletcher. 1,459,486; June 19.
Valve-grinding tool. F. M. Bird. 1,459,356; June 19.
Valve lifter. E. J. Miller. 1,459,635; June 19.
Valve mechanism. E. Bugatti. 1,459,193; June 19.
Valve, Relief. A. W. Miller. 1,459,546; June 19.
Valve, Throttle. F. H. Clark and E. J. Barnett. 1,459,046; June 19.
Vaporizer. V. C. Anderson. 1,459,667; June 19.
Varnish, Flexible. C. D. Draper. 1,459,581; June 19.
Vault temporary handle lock, Burial-. H. K. Knutzon. 1,459,219; June 19.
Vehicle. P. A. Michell. 1,459,545; June 19.
Vehicle. G. F. Myers. 1,459,411; June 19.
Vehicle body. H. C. Mabee. 1,459,159; June 19.
Vehicle, Convertible. A. P. Kelly. 1,459,371; June 19.
Vehicles and the like, Top for. F. K. Lewis. 1,459,406; June 19.
Vehicles, Electric drive for. J. Schurch. 1,459,165; June 19.
Vehicles, End shield for motor. W. G. Cox. 1,459,321; June 19.
Vehicles, Gasoline-consumption indicator for motor. H. J. Knerr. 1,459,106; June 19.
Vehicles, Sun and glare shade for. G. N. Hein. 1,459,180; June 19.
Vending machine. A. D. Grover and E. E. Barber. 1,459,504; June 19.
Veneer-cutting-machine spur bit and block. R. H. Foard. 1,459,587; June 19.
Ventilator: *See*—
Car ventilator.
Vessels, Course drafter for marine and aeronautic. R. H. Schachenmeier. 1,458,957; June 19.
Vinegar, Manufacture of. J. D. Monroe. 1,459,513; June 19.
Viscosimeter. C. R. Rode. 1,459,262; June 19.
Vulcanizer. C. A. Shaler. 1,459,555; June 19.
Wagon, Manually-propelled. A. Cleveland. 1,459,573; June 19.
Wagons, Wheel for coaster. H. J. Ferris. 1,459,527; June 19.
Wall board, Making. O. L. Routt. 1,459,264; June 19.
Wall construction. C. O. Walper. 1,459,170; June 19.
Wash wringer. T. Domoto. 1,459,444; June 19.
Washing apparatus. C. F. Bambara. 1,459,136; June 19.
Washing apparatus, Air-. S. C. Cutler. 1,459,442; June 19.
Washing machine. J. T. Anthony. 1,459,079; June 19.
Washing machine. M. Wagner. 1,459,607; June 19.
Washing machine adaptable to set tubs, Portable power. R. A. Cushing. 1,459,916; June 19.
Washing machines, Dolly for. C. C. Unruh. 1,459,483; June 19.
Watches, Safety attachment for stop. H. E. Von Kersburg. 1,459,006; June 19.
Water heater. F. Schorik. 1,459,164; June 19.
Water heater with percolator. A. M. Lockett. 1,459,408; June 19.
Water-tube boiler, Vertical. F. C. Stimmel. 1,459,561; June 19.
Watering device, Stock-. E. A. Powell. 1,459,293; June 19.
Waterproof sheet material and making the same. H. E. Brown and J. H. Stover. 1,459,499; June 19.
Weatherproof electric heater. L. P. Hynes. 1,458,940; June 19.
Weeder. R. G. Bruner. 1,459,139; June 19.
Weighting apparatus, Automatic balance. G. von Post. 1,459,272; June 19.
Wells, Oil-saving stack for gas-flowing. E. R. Austin. 1,459,461; June 19.
Wheel: *See*—
Car wheel. Rubber wheel.
Cushion wheel. Spring wheel.
Metal-casing wheel. Steering wheel.
Resilient wheel. Tractor wheel.
Wheel and tire, Resilient. L. De Wolf. 1,459,018; June 19.
Wheel boring and facing machine. W. N. Booth. 1,459,011; June 19.
Wheel-making machine. A. E. R. Blomquist. 1,459,010; June 19.
Wheel-printing machine. M. H. Kern. 1,459,215; June 19.
Wheels, Runner construction for Pelton. E. C. Hutchinson. 1,459,672; June 19.
Winding and cabling machine. F. H. Sleeper. 1,458,997; June 19.
Winding machine, Bobbin-. E. J. Ray. 1,459,074; June 19.
Winding machine, Coil-. E. F. Creager and S. Rogers. 1,459,013; June 19.
Window. S. U. Barr. 1,459,668; June 19.
Window cleaner. C. F. Mumaw. 1,459,071; June 19.
Window cleaner. H. A. Pyke. 1,459,255; June 19.
Windowpane-fastening strip. J. R. Gammeter. 1,459,095; June 19.
Window guard. C. S. Woods. 1,459,522; June 19.
Window screen. J. P. Ioor. 1,459,155; June 19.
Windshield cleaner. L. Cohen. 1,459,614; June 19.
Windshield, Clear-vision. W. de F. Crowell. 1,459,392; June 19.
Windshields, Eye-shielding attachment for. J. E. Davitt. 1,459,322; June 19.
Wire support, Checkrow-. A. M. Schieberl. 1,459,163; June 19.
Woodworking tool. A. H. Hilker. 1,459,534; June 19.
Wrapping machine. R. S. Hatch. 1,459,054; June 19.
Wrench: *See*—
Adjustable wrench. Socket wrench.
Wrench. L. L. Hall. 1,459,291; June 19.
Wringer: *See*—
Wash wringer.
Yarn cleaner. A. Ashworth. 1,459,135; June 19.
Yarn or thread, Means for maintaining uniform the tension upon. E. S. Hineline. 1,459,332; June 19.

CLASSIFICATION OF PATENTS

ISSUED JUNE 19, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 19: 1,459,458
50: 1,459,020
2— 23: 1,459,590
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267: 1,459,620
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209: 1,459,152
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295— 45: 1,459,134
296— 23: 1,459,521
37: 1,459,337
45: 1,459,159
84: 1,459,392
97: 1,459,180
1,459,322
99: 1,459,111
116: 1,459,408
297— 16: 1,458,924
298— 22: 1,459,209
23: 1,459,385
299— 55: 1,459,012
84: 1,458,975
1,459,136
301— 24: 1,459,346
25: 1,459,204
44: 1,458,937
48: 1,459,190
63: 1,459,527
111: 1,459,597
303— 21: R. 15,633
63: 1,459,098
84: 1,459,099
86: 1,459,654
305— 8: 1,458,962

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Ferrosan, Copenhagen, Denmark. Medicinal iron preparation. 169,686; June 26; Serial No. 166,430; published Mar. 27, 1923.

Allandale Knitting Mills, Inc., New York, N. Y. Knitted outer garments. 169,712; June 26.

Allen Remedy Company, Sheffield, Iowa. Goiter medicine. 169,586; June 26; Serial No. 158,209; published Mar. 6, 1923.

Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. 169,729; June 26.

Altwein, Oscar R., doing business as O. R. Altwein & Co., Asheville, N. C. Hair-straightening combs. 169,660; June 26; Serial No. 160,733; published Mar. 27, 1923.

Aluminium-Industrie-Aktien-Gesellschaft, Neuhausen, Switzerland. Calcium carbide, nitric acid, and nitrates. 169,682; June 26; Serial No. 173,022; published Mar. 27, 1923.

American Hard Rubber Company, Hempstead and New York, N. Y. Combs for dressing, ornamenting, and cleaning the hair. 169,623; June 26; Serial No. 173,025; published Mar. 27, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Suspenders and belts. 169,731; June 26.

Andrews Brothers Company, Inc., Pittsburgh, Pa. Fresh citrous fruits, dried and evaporated fruits, canned and fresh vegetables. 169,748; June 26.

Armour Fertilizer Works, Chicago, Ill., and Louisville, Ky. Commercial fertilizer. 169,633; June 26; Serial No. 174,952; published Mar. 27, 1923.

Atlanta Barbers Supply Company, Atlanta, Ga. Preparation for cleaning the scalp. 169,610; June 26; Serial No. 172,502; published Mar. 6, 1923.

Auto Pedal Pad Co., New York, N. Y. Automobile pedal pads and accelerator heel rests. 169,725; June 26.

Baker Ice Cream Company, Cleveland, Ohio. Ice cream, water ices, and sherbets. 169,732; June 26.

Bates, C. J., & Son, Chester, Conn. Manicure buffers. 169,639; June 26; Serial No. 175,295; published Mar. 27, 1923.

Bay State Stamping Company, Worcester, Mass. Machine and bearing lubricators, oil hole covers, oil cups, etc. 169,730; June 26.

Benedict, Wilbert M., New York, N. Y. Talcum, shampoo jelly, medicinal plasters, and salve. 169,643; June 26; Serial No. 170,556; published Mar. 20, 1923.

Bliss Brothers Company. (See Rioux, Joseph F.)

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 169,672; June 26; Serial No. 174,687; published Mar. 27, 1923.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 169,677; June 26; Serial No. 173,909; published Mar. 27, 1923.

Buffet, Auguste, Paris, France. Musical instruments. 169,734; June 26.

Burke, Claude A., doing business as Koronkowa Medicine Company, Lufkin, Tex. Liniments. 169,587; June 26; Serial No. 158,074; published Mar. 6, 1923.

California Paint Company, Oakland, Calif. Colors, varnish, stain, paints, etc. 169,650; June 26; Serial No. 166,812; published Mar. 27, 1923.

Carlisle Tire Corporation, Stamford, Conn. Pneumatic vehicle tires. 169,736; June 26.

Chapman, Frank, doing business as The M. W. Dunton Co., Providence, R. I. Soldering flux in salts, paste, and fluid forms. 169,661; June 26; Serial No. 170,123; published Mar. 20, 1923.

Chase, Samuel, Fort Wayne, Ind. Preparation for the relief of dyspepsia, indigestion, etc. 169,611; June 26; Serial No. 172,513; published Mar. 6, 1923.

Chesebrough Manufacturing Co., (Consolidated), New York, N. Y. Petroleum jelly, hair pomade, hair tonic, camphor ice, etc. 169,652; June 26; Serial No. 168,596; published Mar. 6, 1923.

Claflin, Charles E., Rensselaer, N. Y. Liniment. 169,612; June 26; Serial No. 172,515; published Feb. 27, 1923.

Clark-Mesker Company, The, Cleveland, Ohio. Milling and relieving machines and profile grinders. 169,726; June 26.

Close, George, Co., The, Cambridge, Mass. Chocolate-covered candies. 169,695; June 26.

Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. 169,718; June 26.

Conner, Geo. W., Boston, Mass. Metal canopies for electric-light fixtures. 169,698; June 26.

Continental Drug & Chemical Co. Incorporated, El Paso, Tex. Bay rum, borax powder, carbolic acid, etc. 169,591; June 26; Serial No. 150,995; published Feb. 27, 1923.

Corning Glass Works, Corning, N. Y. Nursing bottles. 169,625; June 26; Serial No. 173,405; published Mar. 20, 1923.

Crescent Coal Co., Peoria, Ill. Coal. 169,696; June 26.

Crown Tartarex Co., Inc., New York, N. Y. Catarrh jelly. 169,663; June 26; Serial No. 170,929; published Mar. 20, 1923.

Crown Tartarex Co., Inc., New York, N. Y. Tooth paste and tonic for the gums. 169,664; June 26; Serial No. 170,930; published Mar. 20, 1923.

Curtis Corporation, The, Wilmington, Del., and Long Beach, Calif. Ripe olives. 169,705; June 26.

Davis, H. B., Company, The, Baltimore, Md. Ready-mixed paint. 169,649; June 26; Serial No. 169,538; published Mar. 27, 1923.

Decatur Brewing Co., Decatur, Ill. Malt extract in sirup form. 169,597; June 26; Serial No. 120,869; published Oct. 25, 1921.

Degener, Armin, Inc., New York, N. Y. Cellulose nonshrinking, noncracking capping fluid. 169,635; June 26; Serial No. 175,072; published Mar. 27, 1923.

Derk, Joseph, & Co., Philadelphia, Pa. Drapery fabrics made of cotton, wool, silk, etc. 169,674; June 26; Serial No. 174,385; published Mar. 27, 1923.

Dolly Varden Co. (Se Wiliats, Marietta B.)

Domestic Engineering Co., Chicago, Ill. Plumbing and heating periodical. 169,684; June 26; Serial No. 172,587; published Mar. 27, 1923.

Donley Brothers Co., The, Cleveland, Ohio. Metal building specialties. 169,590; June 26; Serial No. 154,491; published Mar. 13, 1923.

Donohue, Sarah E., doing business as The Peerless Dentists, Eugene, Oreg. Dental anæsthetic. 169,697; June 26.

Dunton, M. W., Co., The. (See Chapman, Frank.)

Dutra, John F., doing business as Galtra Manufacturing Co., Fall River, Mass. Furniture polish. 169,577; June 26; Serial No. 164,792; published Mar. 27, 1923.

Eastmond, John E., doing business as Work Savers Company, Brooklyn, N. Y. Treated cloth for dusting and polishing. 169,681; June 26; Serial No. 173,181; published Mar. 27, 1923.

"81" Tire Stores, The, Birmingham, Ala. Tires and inner tubes. 169,743; June 26.

Empire Biochemical Company, New York, N. Y. Skin-sterilizing preparation used in surgery. 169,605; June 26; Serial No. 172,373; published Feb. 27, 1923.

Erlanger, N. Blumgart & Co. Inc., New York, N. Y. Outer wash garments. 169,741; June 26.

Féraut, Julien, Sacramento, Calif. Healing salve. 169,603; June 26; Serial No. 171,828; published Mar. 20, 1923.

Fleischer, Joseph S., Brooklyn, N. Y. Sweaters. 169,706; June 26.

Franklin Simon & Co. Inc., New York, N. Y. Face and talcum powders, perfume. 169,579; June 26; Serial No. 160,185; published Mar. 6, 1923.

Freeman Daugbaday Co., doing business as Providence Collar Button Company, Chartley, Mass., and Providence, R. I. Collar buttons. 169,739; June 26.

Galtra Manufacturing Co. (See Dutra, John F.)

Goddard, J. W., & Sons, Incorporated, New York, N. Y. Cotton piece goods. 169,702; June 26.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for general use. 169,596; June 26; Serial No. 129,129; published Mar. 27, 1923.

Good, James, Inc., Philadelphia, Pa. Preparations for destroying weeds, sprays for plants, shrubs, and trees, Bordeaux mixture, etc. 169,685; June 26; Serial No. 166,740; published Mar. 20, 1923.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Textile fabrics consisting of cotton piece goods. 169,676; June 26; Serial No. 173,927; published Mar. 27, 1923.

Grossmith, J., & Son, Limited, London, England. Perfume and face powder. 169,598; June 26; Serial No. 170,979; published Mar. 20, 1923.

Grossmith, J., & Son, Limited, London, England. Lavender water. 169,665; June 26; Serial No. 170,976; published Mar. 20, 1923.

Hammond, Estella M., East Cleveland, Ohio. Designs used for art needlework. 169,647; June 26; Serial No. 169,852; published Mar. 27, 1923.

Hampshire Paper Company, South Hadley Falls, Mass. Printing and writing paper. 169,746–7; June 26.

Hanson & Moe, St. Paul, Minn. Battery compound. 169,654; June 26; Serial No. 168,468; published Mar. 20, 1923.

Hepsall Company, The. (See Holt, H. L.)

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables and dried fruit. 169,703; June 26.

Holt, H. L., doing business as The Hepsall Company, Ogamaw, Ark. Preparation for use in the treatment of the hair. 169,679; June 26; Serial No. 173,285; published Mar. 27, 1923.

Hopke, John E., Brooklyn, N. Y. Massage cream. 169,668; June 26; Serial No. 171,169; published Mar. 27, 1923.

Household Hosiery Mills, Inc., Chattanooga, Tenn. Hosiery. 169,701; June 26.
Hudson Bay Fur Company. (See Kosofsky, Aaron.)
Hydro Manufacturing Company, Little Rock, Ark. Chemical for recharging batteries. 169,708; June 26.
I-EZ Co., Brooklyn, N. Y. Eyewash. 169,644; June 26; Serial No. 170,433; published Mar. 20, 1923.
Imperial Hygienic Co., Suffern, N. Y. Tonic for the skin. 169,608; June 26; Serial No. 172,476; published Feb. 27, 1923.
Improved Equipment Company, New York, N. Y. Apparatus used in the manufacture of gas from coal. 169,710; June 26.
Iowana Gypsum Products Co., Fort Dodge, Iowa. Plaster. 169,589; June 26; Serial No. 154,603; published Feb. 6, 1923.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. 169,624; June 26; Serial No. 173,084; published Mar. 20, 1923.
Joannes Bros. Co., Green Bay, Wis. Coffee. 169,700; June 26.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. 169,593; June 26; Serial No. 139,776; published July 11, 1922.
Johnson & Johnson, New Brunswick, N. J. Suspensory bandages. 169,636; June 26; Serial No. 175,146; published Mar. 27, 1923.
Kanak Company, Inc., New York, N. Y. Ice-box deodorants. 169,645; June 26; Serial No. 170,249; published Feb. 27, 1923.
Kansas City Refining Sales Company, Kansas City, Kans. Lubricating oils, greases, and gasoline. 169,638; June 26; Serial No. 173,248; published Mar. 27, 1923.
Kermes, Max, Hainichen, Germany. Medical and surgical bandages. 169,595; June 26; Serial No. 137,944; published Mar. 27, 1923.
Kidder, Samuel, & Co. Inc., Boston, Mass. Asthmatic pastils. 169,650; June 26; Serial No. 168,974; published Mar. 20, 1923.
Klapp Charles L., St. Louis, Mo. Face powder, face creams, perfumes, etc. 169,588; June 26; Serial No. 155,696; published Feb. 27, 1923.
Koronkowa Medicine Company. (See Burke, Claude A.)
Kosinski, Konstantin, Ipswich, Mass. Oil to prevent perspiration of the feet. 169,614; June 26; Serial No. 172,601; published Mar. 6, 1923.
Kosofsky, Aaron, doing business as Hudson Bay Fur Company, New York, N. Y. Chemical preparation used on dyed furs. 169,609; June 26; Serial No. 172,479; published Mar. 6, 1923.
Krebs Pigment & Chemical Company, Newport, Del. Paint pigments. 169,627; June 26; Serial No. 172,841; published Mar. 27, 1923.
Krohn-Fechheimer Co., The, Cincinnati, Ohio. Leather boots and shoes. 169,583; June 26; Serial No. 160,013; published Aug. 22, 1922.
Kury, Peter, St. Louis, Mo. Ham and bacon. 169,694; June 26.
Kyograph Photo System. (See Wiggin, J. F.)
Lafayette Pharmacal Company, The, La Fayette, Ind. Pharmaceutical preparation for the treatment of hyperacidity, gastritis, etc. 169,613; June 26; Serial No. 172,541; published Mar. 6, 1923.
La Salle Manufacturing Company, La Salle, Ill. Office and phonograph record racks. 169,620; June 26; Serial No. 172,748; published Mar. 27, 1923.
La Societe Anonyme "Parfums Gueidy," Paris, France. Perfumes, toilet waters, face lotions, etc. 169,642; June 26; Serial No. 170,938; published Mar. 6, 1923.
Lemonium Company. (See Puente & Cicero.)
Levin, Henry M., doing business as Rawhide Products Distributing Co., Kenilworth, N. J. Blow-out patches, fan belts, brake linings, etc. 169,723; June 26.
Levy, Maurice, New York, N. Y. Powder puffs. 169,720; June 26.
Liberty & Co. Limited, London, England. Piece goods of cotton. 169,602; June 26; Serial No. 171,808; published Mar. 27, 1923.
Lindsay Co Operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 169,716; June 26.
Lionel Trading Co., Inc., New York, N. Y. Face powders and rouges. 169,675; June 26; Serial No. 174,085; published Apr. 24, 1923.
Lionel Trading Co. Inc., New York, N. Y. Perfumes. 169,640; June 26; Serial No. 171,333; published Jan. 30, 1923.
Litterer Bros. Manufacturing Company, Chicago, Ill. Steel toilet partitions. 169,724; June 26.
Long, C. Smith, doing business as Smith Long Laboratories, Portland, Oreg. Dental preparations. 169,689; June 26; Serial No. 163,798; published Feb. 27, 1923.
Long's Hat Stores, New York, N. Y. Men's hats. 169,717; June 26.
Lorraine Manufacturing Company, Pawtucket, R. I. Men's suits, coats, and pants, ladies' skirts, suits, and coats. 169,719; June 26.
Louisville Coffee Company, The, Louisville, Ky. Coffee. 169,687; June 26; Serial No. 166,080; published Apr. 17, 1923.
McDougall Company, Frankfort, Ind. Kitchen cabinets. 169,632; June 26; Serial No. 174,846; published Mar. 27, 1923.
McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Hatbands. 169,728; June 26.
McPhee & McGinnity Company, Denver, Colo. Wall-finish paints or calcimines in powder form. 169,615; June 26; Serial No. 172,605; published Mar. 27, 1923.
Maranto, Giuseppe P., Baltimore, Md. Preparation for the relief and cure of indigestion. 169,648; June 26; Serial No. 169,600; published Mar. 20, 1923.
Marmola Company, Detroit, Mich. Laxatives. 169,585; June 26; Serial No. 155,357; published July 18, 1922.
Marshall Field & Company, Chicago, Ill. Silk and cotton piece goods. 169,688; June 26; Serial No. 165,923; published Mar. 27, 1923.
Matre & Company, Chicago, Ill. Pocket holy-water fountain. 169,658; June 26; Serial No. 166,951; published Mar. 27, 1923.
Mayer, Sig. C. & Company, Inc., Philadelphia, Pa. Cigars. 169,707; June 26.
Menzie, George A., Duluth, Minn. Hair tonic. 169,616; June 26; Serial No. 172,606; published Mar. 6, 1923.
Metz, H. A., & Co., Inc., New York, N. Y. Chemical substitutes for camphor used in celluloid. 169,604; June 26; Serial No. 171,940; published Mar. 20, 1923.
Meyer, Theodore, Philadelphia, Pa. Preparation for exterminating rodents. 169,600–1; June 26; Serial Nos. 171,739–40; published Mar. 20, 1923.
Michels, Peter J., New York, N. Y. Cutlery. 169,690; June 26.
Miller & Meissner, Cuero, Tex. Antiseptic mouth washes. 169,656; June 26; Serial No. 167,578; published Mar. 6, 1923.
Murray, John F., New York, N. Y. Prune laxative preparation. 169,641; June 26; Serial No. 170,945; published Mar. 20, 1923.
Myrurgia, S. A., Barcelona, Spain. Toilet soaps. 169,580; June 26; Serial No. 159,369; published Mar. 27, 1923.
Myrurgia, S. A., Barcelona, Spain. Toilet soaps. 169,582; June 26; Serial No. 159,368; published Mar. 27, 1923.
National Acme Company, The, Cleveland, Ohio. Metal-working machines and tools. 169,721–2; June 26.
National Association of Hosiery and Underwear Manufacturers, New York, N. Y. Periodical issued weekly. 169,666; June 26; Serial No. 171,033; published Mar. 27, 1923.
National Retail Dry Goods Association, New York, N. Y. Trade papers and bulletins. 169,690; June 26; Serial No. 165,704; published Mar. 27, 1923.
Neptune Laboratories, The. (See Robinson, Guy A.)
Ohio Glove & Manufacturing Company, The, Columbus, Ohio. Gloves. 169,740; June 26.
Oneida Community, Limited, Oneida, N. Y. Silver-plated flatware, tableware, and cutlery. 169,692; June 26.
Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Elevators, escalators, endless carriers, etc. 169,693; June 26.
Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Elevators, escalators, endless carriers, etc. 169,713; June 26.
Parfumerie Lubin. (See Prot, Paul, & Cie.)
Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. 169,584; June 26; Serial No. 158,436; published Sept. 5, 1922.
Paxtonic Blood Food Co., Inc., Birmingham, Ala. Preparation for the treatment of rheumatism, paralysis, pneumonia, etc. 169,621; June 26; Serial No. 172,760; published Mar. 6, 1923.
Peerless Dentists, The. (See Donohue, Sarah E.)
Peerless Level & Tool Co., The, Sterling, Ill. Tools, and particularly levels. 169,711; June 26.
Penick & Ford, Ltd. Incorporated, New Orleans, La. Table sirup. 169,709; June 26.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Cotton piece goods. 169,670–1; June 26; Serial Nos. 175,022–3; published Mar. 27, 1923.
Pérez, Bernardo, Mexico, Mexico. Medicinal preparation for the treatment of rheumatism. 169,592; June 26; Serial No. 147,307; published Mar. 6, 1923.
Peterson, Chas., Duluth, Minn. Insecticide. 169,683; June 26; Serial No. 172,761; published Mar. 20, 1923.
Prot, Paul, & Cie., doing business as Parfumerie Lubin, Paris, France. Perfumes, toilet waters, face and talcum powders, face lotion, etc. 169,646; June 26; Serial No. 170,082; published Feb. 27, 1923.
Providence Collar Button Company. (See Freeman Daughaday Co.)
Puente & Cicero, doing business as Lemonium Company, Los Angeles, Calif. Cough sirups. 169,578; June 26; Serial No. 161,334; published Mar. 6, 1923.
Radio Corporation of America, New York, N. Y. Radio receiving, detecting, amplifying, and transmitting apparatus and parts thereof. 169,727; June 26.
Raney, Rebekah E., San Francisco, Calif. Ash trays. 169,691; June 26; Serial No. 158,007; published Mar. 27, 1923.
Rawhide Products Distributing Co. (See Levin, Henry M.)
Real Silk Hosiery Mills, Indianapolis, Ind. Hosiery. 169,737; June 26.
Richardson, O. W., & Co., Chicago, Ill. Household furniture. 169,653; June 26; Serial No. 168,553; published Mar. 27, 1923.

Rioux, Joseph P., doing business as Bliss Brothers Company, Attleboro, Mass. Cigarette holders. 169,678; June 26; Serial No. 173,610; published Mar. 27, 1923.
Roberti Bros., Los Angeles, Calif. Closet and wall bels. 169,630; June 26; Serial No. 174,110; published Mar. 27, 1923.
Robinette Co., The, Syracuse, N. Y. Hair grower. 169,657; June 26; Serial No. 167,195; published Mar. 6, 1923.
Robinson, Guy A., doing business as The Neptune Laboratories, Dallas, Tex. Face treating clay. 169,606; June 26; Serial No. 172,440; published Feb. 27, 1923.
Rosenberg, Harry C., Waterbury, Conn. Shoes. 169,744; June 26.
Rosenwald & Weil, Inc., Chicago, Ill. Suits. 169,704; June 26.
Salwen, D., & Co., Inc., New York, N. Y. Hosiery. 169,715; June 26.
Schering & Glatz, Inc., New York, N. Y. Medicinal preparations. 169,629; June 26; Serial No. 174,033; published Feb. 27, 1923.
Schmeer's Paper Box Company, Syracuse, N. Y. Paper boxes. 169,631; June 26; Serial No. 174,112; published Mar. 27, 1923.
Shaft Pierce Shoe Company, Faribault, Minn. Shoes. 169,735; June 26.
Sichel, Ferdinand, New York, N. Y. Cotton goods and linens in the piece. 169,669; June 26; Serial No. 175,028; published Mar. 27, 1923.
Skeehan, Josephine G., San Francisco, Calif. Tonic, blood purifier, and rheumatism medicine. 169,583; June 26; Serial No. 158,651; published Feb. 27, 1923.
Smith Long Laboratories. (See Long, C. Smith.)
South Side Drug Co. (See Waldow, Benjamin.)
Squibb, E. R., & Sons, New York, N. Y. Alteratives, analgesics, anaphrodisiacs, anesthetics, anodynes, antacids, etc. 169,655; June 26; Serial No. 168,435; published Feb. 27, 1923.
Standard Oil Company, San Francisco, Calif. Lubricating oils. 169,637; June 26; Serial No. 175,223; published Mar. 27, 1923.
Standard Ultramarine Co., The, Huntington, W. Va. Ultramarine blue. 169,662; June 26; Serial No. 170,906; published Mar. 20, 1923.
Stein, Louis, doing business as Stein Bros. & Co., Chicago, Ill. Cardcases, pocketbooks, portfolios. 169,626; June 26; Serial No. 173,448; published Mar. 27, 1923.
Stirn, L. & E., New York, N. Y. Artificial silk in the piece. 169,627; June 26; Serial No. 173,685; published Mar. 13, 1923.
Surpass Chemical Co. Inc., Albany, N. Y. Material for bleaching and degumming silk. 169,619; June 26; Serial No. 172,658; published Mar. 6, 1923.
T. & A. Chemical Company, Boston, Mass. Automobile and furniture polishes. 169,651; June 26; Serial No. 168,742; published Mar. 27, 1923.
Tabler, John H., Washington, D. C. Buckles and straps for baggage, horse equipments, portfolios, and pocketbooks. 169,594; June 26; Serial No. 137,973; published Mar. 27, 1923.
Thompson Medical Co., Titusville, Pa. Medicinal preparation of tonic and laxative properties. 169,667; June 26; Serial No. 171,046; published Mar. 27, 1923.
Trotman, Henry L., doing business as Henry L. Trotman & Co., Cleveland, Ohio. Hair elixirs, growers, brilliantines, straighteners, and shampoos. 169,599; June 26; Serial No. 171,394; published Mar. 20, 1923.
United Marine & Fuel Corporation, New York, N. Y. Lubricating oils. 169,634; June 26; Serial No. 175,034; published Mar. 27, 1923.
Waldow, Benjamin, doing business as South Side Drug Co., Buffalo, N. Y. Tablets and capsules for headaches, etc. 169,745; June 26.
Walker Bros. Co., Boston, Mass. Medicinal preparations for cramps, diarrhea, and colds. 169,680; June 26; Serial No. 173,263; published Mar. 27, 1923.
Watelet, Abel, doing business as Abel Watelet & Cie., Paris, France. Pharmaceutical preparation for use in diseases of the stomach, intestines, etc. 169,607; June 26; Serial No. 172,455; published Feb. 27, 1923.
Waumbek Manufacturing Company, New York, N. Y. Cotton and cotton and silk mixture fabrics in the piece. 169,673; June 26; Serial No. 174,548; published Mar. 27, 1923.
Wesley, Edward, & Company, Cincinnati, Ohio. Hair-combing cream. 169,617; June 26; Serial No. 172,625; published Mar. 6, 1923.
West Disinfecting Company, New York, N. Y. Paper towels. 169,742; June 26.
West India Oil Company, New York, N. Y. Candles. 169,628; June 26; Serial No. 173,798; published Mar. 27, 1923.
Westcott Rule Company, Incorporated, Seneca Falls, N. Y. Folding rules. 169,733; June 26.
White, R. H., Company, Boston, Mass. Suits, coats, dresses, and waists, shoes. 169,714; June 26.
Wiggin, J. F., doing business as Kyograph Photo System, New York, N. Y. Photographs. 169,738; June 26.
Willats, Marietta B., doing business as Dolly Varden Co., Los Angeles, Calif. Bath balm, hair pomade, sachets, beautifiers, etc. 169,618; June 26; Serial No. 172,628; published Mar. 6, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

After-Shave Laboratories. (See Valentine, Harry E.)
Antoniadis, Antonio, New York, N. Y. Olio D'Oliva Puro. For Imported Italian Olive Oil. 26,104; June 26.
Bainbridge, Mary A., Caldwell, N. J. Myrykle Fruit Balls. For Glass Jars Containing Medicated Fruit Balls Having Laxative Properties. 26,105; June 26.
Bartow Beverages, Inc., Nashville, Tenn. Beverley Club. For Ginger Ale. 26,106; June 26.
Brown, Edward H., Minneapolis, Minn. Brownies Root Beer. For Root Beer, a Nonintoxicating Beverage. 26,107; June 26.
Capital Rodewite Company, Incorporated, South Washington, Va. Blok-Tite. For Adhesives. 26,108; June 26.
Colonial Mush Company, Chicago, Ill. Colonial Mush. For Corn-Meal Mush. 26,109; June 26.
Cross, Fred W., & Co., Binghamton, N. Y. New Luster Furniture Polish. For Liquid Polishing Substance. 26,110; June 26.
Davis-Cleaver Produce Company, Quincy, Ill. Ferndale. For Butter. 26,111; June 26.
Dello Ink Corporation, New York, N. Y. Dello Ink. For Containers Holding Ink. 26,112; June 26.
English, Geo., Jr., & Co., Shamokin, Pa. Fashunfit. For Union Suits. 26,113; June 26.
Factory Service Company, New York, N. Y. Aunt Susan's Famous Homemade Sandwiches. For Sandwiches. 26,114; June 26.
Great West Mill and Elevator Company, Amarillo, Tex. Luna De Oro. For Flour. 26,115; June 26.
Hamilton & Sons Canning Co., New London, Wis. Sunday. For Canned Sauerkraut. 26,116; June 26.
Hamilton & Sons Canning Co., New London, Wis. Testo. For Canned Sauerkraut. 26,117; June 26.
Hamilton & Sons Canning Co., New London, Wis. Hamilton's. For Canned Sauerkraut. 26,118; June 26.
Hamilton & Sons Canning Co., New London, Wis. Mondel. For Canned Sauerkraut. 26,119; June 26.
Harrington & Waring, New York, N. Y. Hollywood. For Hose. 26,120; June 26.
Hartman, Gideon, doing business as Hartman Co., Altoona, Pa. Hantman's Liniment. For Liniment. 26,121; June 26.
Hastings Bakery. (See Menasha Printing and Carton Company, assignor.)
Hayes & Co., Inc., Boston, Mass. De Luxe. For Canned Peas. 26,122; June 26.
Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. Blue-Dot. For Malt Sirup. 26,123; June 26.
Indianapolis Glove Company, Indianapolis, Ind. Indian Apple-Us. For Cartons for Gloves. 26,124; June 26.
International Silver Company, Meriden, Conn. Kiddie Kup. For Children's Cups. 26,125; June 26.
James Brothers, Atlantic City, N. J. Cut-To-Fit-The-Mouth. For Candy. 26,126; June 26.
Jensen, S. C., Creamery Co. (See Menasha Printing and Carton Company, assignor.)
Kellogg Company, Battle Creek, Mich. Kellogg's Krumbles. For Cereal Breakfast Food. 26,127; June 26.
Krank, Alfred J., St. Paul, Minn. Kranks Skin-Health Face Powder. For Face Powder. 26,128; June 26.
Levering Coffee Company, The, Baltimore, Md. Every Sip Is Delicious. For Coffee. 26,129; June 26.
Mattlage, Charles F., & Sons Inc., New York, N. Y. Royall's French Salad Dressing. For French Salad Dressing. 26,130; June 26.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Metropolitan Ice Cream Co., Newark, N. J. Sterling Ice Cream. For Ice Cream. 26,131; June 26.
Menasha Printing and Carton Company, Menasha, Wis., assignor to B. C. Reich & Son, Fort Worth, Tex. Mity Nice Bread. For Wrappers for Bread. 26,132; June 26.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Weber Ice Cream Co., Jefferson City, Mo. Weber. For Ice Cream. 26,133; June 26.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Valley Dairy Products Co., Appleton, Wis. Valdair Creamery Butter. For Butter. 26,134; June 26.

Menasha Printing and Carton Company, Menasa, Wis., assignor to S. C. Jensen Creamery Co., Milwaukee, Wis. Reliable Brand. For Butter. 26,135; June 26.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Hastings Bakery, Hastings, Nebr. Sugar Loaf. For Wrappers for bread. 26,136; June 26.
Metropolitan Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
Mihalovitch Co., The, Cincinnati, Ohio. Health-O. For Rubbing and Massage Alcohol. 26,137; June 26.
Missisquoi Lime Works, Inc., St. Albans, and Highgate Springs, Vt. White Horse Brand No. 1 Common Lime. For Lime Barrels. 26,138; June 26.
Missisquoi Lime Works, Inc., St. Albans, and Highgate Springs, Vt. Red Indian Brand Finishing Lime. For Lime Barrels. 26,139; June 26.
No-Leak-O Piston Ring Company, Muskegon, Mich. "No-Leak-O" Oil Sealing. For Piston Rings. 26,140; June 26.
Pabst Corporation, Milwaukee, Wis. Che-Rene. For a Carbonated Beverage. 26,141; June 26.
Pabst Corporation, Milwaukee, Wis. Grap-Di-Vine. For a Carbonated Beverage. 26,142; June 26.
Payne, Edward B., Berkeley, Calif. The Omar Loaf. For Bread. 26,143; June 26.
Phillips, Harry L., & Alverta B. Phillips, Wichita, Kans. Brook-Hill Water. For Bottled Water and Water Supplied in Other Containers. 26,144; June 26.
Pokodot Cereal Company, Fargo, N. Dak. Pokodot. For Pancake Flour. 26,145; June 26.
Pokodot Cereal Company, Fargo, N. Dak. Dwarfies. For Breakfast Food. 26,146; June 26.
Real Silk Hosiery Mills, Indianapolis, Ind. Real Silk Guaranteed Hosiery. For Hosiery. 26,147; June 26.
Real Silk Hosiery Mills, Indianapolis, Ind. Real Silk Super-Service Socks. For Hosiery. 26,148; June 26.
Reich, B. C., & Son. (See Menasha Printing and Carton Company, assignor.)
Silver King Novelty Co. (See Williams, Ollie A.)
Steacy-Shaeffer Tobacco Co. Inc., York, Pa. MI-Te Good. For Tobacco. 26,149; June 26.
Steteiman, Louis, Columbus, Ohio. Supreme. For Malt Extract. 26,150; June 26.
Stewart, U. S., & Bro., Baltimore, Md. Cedar Creek Steamed Crab. For Steamed Crabs. 26,151; June 26.
Strait, J. H., & Company, Redlands, Calif. Canyon Crest. For Valencias. 26,152; June 26.
Taggart Baking Company, Indianapolis, Ind. Alaskan. For Sugar Wafers. 26,153; June 26.
Turn-Over-Toaster Company, Inc., New York, N. Y. T-O-T Turnover Gas Toaster. For Bread Toasters. 26,154; June 26.
U. S. Paper Goods Co., The, Cincinnati, Ohio. Pitirre. For Paper Bags. 26,155; June 26.
Ulmer, Lewis S., Pittsburgh, Pa. Ulmanite Polish. For a Polish for All Painted and Varnished Surfaces. 26,156; June 26.
Valentine, Harry E., doing business as After-Shave Laboratories, Los Angeles, Calif. After-Shave. For an After Shaving Lotion. 26,157; June 26.
Valley Dairy Products Co. (See Menasha Printing and Carton Company, assignor.)
Weber Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
Weinhagen, Chas., & Co., St. Paul, Minn. Tempt-Her. For Candy. 26,158; June 26.
Williams, Ollie A., doing business as Silver King Novelty Co., Indianapolis, Ind. Automatic Salesman. For a Machine Vending Packages of Confection. 26,159; June 26.
Zinsmeister, J., & Sons, Incorporated, Louisville, Ky. Umaco. For Coffee. 26,160; June 26.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Allied Packers, Inc., Chicago, Ill. Peter Porker says. For Foods. 6,763; June 26.
Austin, Nichols & Co., Brooklyn, N. Y. Sunbeam. For Pure Food Products. 6,764; June 26.
B. V. D. Company, Inc., The, New York, N. Y. "B. V. D." Red Woven Label. For Athletic Underwear. 6,765; June 26.
B. V. D. Company, Inc., The, New York, N. Y. There is only one "B. V. D." For Athletic Underwear. 6,766; June 26.
Brown, Edward H., Minneapolis, Minn. Brownies Root-Beer. For Root Beer, a Nonintoxicating Beverage. 6,767; June 26.
Cochran & McCluer Company, Chicago, Ill. Pioneers of Safety. For First-Mortgage Real-Estate Gold Bonds. 6,768; June 26.
Columbia Graphophone Company, New York, N. Y. Columbia New Process Records. For Graphophone Records. 6,769; June 26.
Cream of Wheat Co., Minneapolis, Minn. A Vacancy In The Department Of The Interior. For Wheat Breakfast Food. 6,770; June 26.
Hartmann Trunk Company, Racine, Wis. Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. 6,771; June 26.
Heinz, H. J., Company, Pittsburgh, Pa. Pickles in Patterns. For Heinz 57 Varieties (Food Products). 6,772; June 26.
Hills Bros., San Francisco, Calif. Fine flavor comes from fine quality. For Coffee. 6,773; June 26.
Hills Bros., San Francisco, Calif. The original vacuum pack. For Coffee. 6,774; June 26.
Hills Bros., San Francisco, Calif. Flavor Is The Hidden Difference. For Coffee. 6,775; June 26.
Hills Bros., San Francisco, Calif. The hidden difference. For Coffee. 6,776; June 26.
Hills Bros., San Francisco, Calif. The hidden difference is Flavor. For Coffee. 6,777; June 26.
Hills Bros., San Francisco, Calif. The original vacuum pack keeps its fine flavor fresh for you. For Coffee. 6,778; June 26.
Krank, Alfred J., St. Paul, Minn. Krank's "Pompa" Comb. For Combination Comb and Brush for Training the Hair. 6,779; June 26.
Olmsted, Allen S., Le Roy, N. Y. So Easy to Use. For Allen's Foot-Ease, a Toilet Preparation. 6,780; June 26.
"Onyx" Hosiery Inc., New York, N. Y. "Onyx" Hosiery. For Hosiery. 6,781; June 26.
Palmolive Company, The, Milwaukee, Wis. She looks as young as ever. For Palmolive Soap. 6,782; June 26.
Real Silk Hosiery Mills, Indianapolis, Ind. Exclusive Features of Real Silk Guaranteed Hosiery. For Hosiery. 6,783; June 26.
Stough, Mrs. Eva C., San Francisco, Calif. Janez Loope. For a Protector and Support for Earrings. 6,784; June 26.
Tartaroff Co. (See Waddell, Walter H. and B.)
Universal Theatres Concession Co., Chicago, Ill. Folly Towns. For Candy. 6,785; June 26.
Waddell, Bertha. (See Waddell, Walter H. and B.)
Waddell, Walter H. and B., doing business as Tartaroff Co., Chicago, Ill. Tartaroff. For Preparations for Removing Tartar, Film, and Discolorations from the Teeth. 6,786; June 26.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Indicating and recording gauges and thermometers, engine indicators, etc. 154,346; June 26.
American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Steam traps, feed-water grease extractors, pot safety valves, and relief valves. 180,409; June 26.
American Varnish Co., The, Chicago, Ill. Paint enamels. 177,891–2; June 26.
Atascadero Fruit Exchange, Atascadero, Calif. Canned fruits and vegetables. 171,346; June 26.
Austin Manufacturing Co. (See Blake, Mrs. E. A.)
Baldacci, Valentino, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy. Pharmaceutical preparations for the treatment of diabetes, etc. 171,703; June 26.
Ballantyne, D., Brothers & Company, Limited, Peebles, Scotland. Knitted wear for ladies, gentlemen, and children. 175,053; June 26.
Baltimore Bargain House, Baltimore and Cumberland, Md. Shoe lasts, blind awnings, animal traps, rubber cloth, etc. 117,793; June 26.
Barber Asphalt Company, The, Philadelphia, Pa. Fire wagons, surface heaters, stationary and portable melting kettles. 170,748; June 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Barbour Brothers Co., The, Paterson, N. J. Shoe thread. 160,335; June 26.
Barrist & Co., Philadelphia, Pa. Women's, misses', and children's coats, skirts, and suits. 174,764; June 26.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 176,595; June 26.
Bentley & Twohey Silk Co., Newton, N. J., and New York, N. Y. Silk piece goods and artificial-silk, cotton, wool, and worsted piece goods and combinations thereof. 172,197; June 26.
Berguson-Skinner Corporation, Chicago, Ill. Pistons. 156,248; June 26.
Better Pictures Publishing Co., Chicago, Ill. Monthly periodical. 175,912; June 26.
Bickum, Dorothy, New York, N. Y. Brassières. 174,999; June 26.
Bickum, Dorothy, New York, N. Y. Brassières. 176,159; June 26.
Birdsey Somers Company, New York, N. Y. Brassières. 174,532; June 26.
Blake, Mrs. E. A., doing business as Austin Manufacturing Co., Detroit, Mich. Preparation for use in the treatment of hair and scalp. 167,797; June 26.
Blue Bird Inc. Perfumers, New York, N. Y. Cold and vanishing creams, depilatories, hair growers, etc. 171,779; June 26.
Boyakin, Raymond, Salt Lake City, Utah. Auto and furniture cleaner. 166,036; June 26.
Brooks, William H., San Francisco, Calif. Meat pies, dumplings, etc. 170,806; June 26.
Brown & Schler Company, Grand Rapids, Mich. Storage batteries. 178,816; June 26.
Brown, J. C., Newark, Ohio. Salad dressings. 176,446; June 26.
Camel Dry Storage Battery Co., Dallas, Tex. Storage batteries. 164,694; June 26.
Candy Manufacturer Publishing Co., The, Chicago, Ill. Magazines published semiannually. 178,955; June 26.
Capell Salt Company, Salt Lake City, Utah. Salt. 172,974; June 26.
Carametos, John J. M., doing business as E. B. Candy Co., Chicago, Ill. Candy bars. 168,513; June 26.
Caron Corporation. (See Daltroff, E., & Cie., assignor.)
Carran, Grace B., doing business as Central Petroleum Company, Cleveland, Ohio. Lubricating oils and greases. 179,927; June 26.
Casler, Fred M., Los Angeles, Calif. Mayonnaise, catchup, Thousand Island dressing, marshmallow cream, etc. 168,755; June 26.
Central Petroleum Company. (See Carran, Grace B.)
Cincinnati Cordage & Paper Co., The, Cincinnati, Ohio. Writing paper (monogram linen). 174,556; June 26.
Close, George, Co., The, Cambridge, Mass. Candy. 170,561; June 26.
Cluff, William, Company, Wilmington, Del., and San Francisco, Calif. Laundry soap. 175,769; June 26.
Coari, C. A., doing business as Coari Peanut Products Co., Chicago, Ill. Peanuts and all kinds of nut meats and nut products. 162,917; June 26.
Coast Fishing Company Incorporated, Wilmington, Calif. Canned fish. 176,327; June 26.
Cohen, Louis N., & Co., Inc., New York, N. Y. Raincoats and rainproof men's and children's clothing. 173,564; June 26.
Cohn, Bennie, Los Angeles, Calif. Hosiery, suspenders, garters, arm bands, underwear, etc. 169,949; June 26.
Connaught Antitoxin Laboratories, University of Toronto, Toronto, Ontario, Canada. Substance which will effect the combustion of the carbohydrates in the animal body and remove the symptoms of diabetes mellitus. 168,919; June 26.
Cooknut Corporation, The, Baltimore, Md. Vegetable lard substitute. 175,650; June 26.
Coors, Adolph Company, Golden, Colo. Dried or desiccated milk. 162,668; June 26.
Coronado Fish Co. (See Petrich, Paul.)
Craig, Stephen, Company, Newport, R. I. Prophylactic ointment. 176,001; June 26.
Cunningham, Elmer T., San Francisco, Calif. Radio apparatus. 153,200; June 26.
Cunningham, Elmer T., San Francisco, Calif. Thermionic detector, amplifier, and oscillator tubes. 178,957; June 26.
Cunningham, Joseph A., Philadelphia, Pa. Newspaper cartoon section. 178,959; June 26.
Daisy Dish Pan Company. (See Hendricks, William H.)
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignors to Caron Corporation. Perfume, toilet water, rouges, face powder, etc. 173,875; June 26.
Davol Rubber Company, Providence, R. I. Surgeons' gloves. 176,721; June 26.
Dean-Hicks Company, The, Grand Rapids, Mich. Magazine published monthly. 179,780; June 26.
De Forest Radio Telephone and Telegraph Company, Jersey City, N. J. Radio telephone and telegraph apparatus. 167,229; June 26.
De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Radio telephone and telegraph receiving sets and transmitting sets and parts. 175,472; June 6.
Dinhofer Bros. Inc., New York, N. Y. Watchcases. 176,168; June 26.
Douglas, Harry A., doing business as H. A. D. Sales & Engineering Co., Not Incorporated, Bronson, Mich. Electric connectors, connecting plugs, wiring outfits, etc. 142,829; June 26, 1923.
Duarte-Monrovia Fruit Exchange, Duarte, Calif. Fresh citrous fruits. 175,853; June 26.
E. B. Candy Co. (See Carametos, John J. M.)
Eagle Skirt Company, New York, N. Y. Women's bloomers, pantalets, and petticoats. 171,490; June 26.
Earle Textile Company, Morgantown, N. C. Hosiery. 173,351; June 26.
Electric Appliances, Inc., Muncie, Ind. Electric stoves. 179,401; June 26.
Electric Heat Unit Co., St. Louis, Mo. Electrical soldering irons. 179,402; June 26.
Elizabeth Arden. (See Lewis, Florence N.)
Ellis, John S., doing business as Shirland Knitting Mills, Philadelphia, Pa. Knitted coats, jackets, and sweaters. 175,076; June 26.
Ely & Walker Dry Goods Company, doing business as Lincoln Knit Goods Mills, St. Louis, Mo. Sweaters. 177,283; June 26.
Eshborn, Samuel, New York, N. Y. Phonographs and phonograph accessories. 173,702; June 26.
Eskilstuna Stålpressnings Aktieboiag, Eskilstuna, Sweden. Metal lamp shades. 174,361; June 26.
Etablissements Poulenc frères, Paris, France. Specific vaccine. 173,744; June 26.
Etablissements Poulenc frères, Paris, France. Specific vaccine. 173,746–7; June 26.
Etablissements Poulenc frères, Paris, France. Double iodide of quinine and bismuth. 173,748; June 26.
Etablissements Poulenc frères, Paris, France. Specific vaccine. 173,749–50; June 26.
Etablissements Poulenc frères, Paris, France. Barium sulphate. 173,758; June 26.
Evol Chemical Company. (See Weisberg, Emily R.)
Fay Hosiery Mills, Incorporated, Philadelphia, Pa. Hosiery. 171,989; June 26.
Federal Knitting Company, Inc., Philadelphia, Pa. Silk and cotton hosiery and men's crochet and knitted neckwear. 173,762; June 26.
Flash Chemical Company, Cambridge, Mass. Hand soap. 176,335; June 26.
Flexible Steel Lacing Co., Chicago, Ill. Guards for electric lamps. 179,190; June 26.
Foltzer, Charles, doing business as French Swiss Noodle Company, Cincinnati, Ohio. Noodles. 166,503; June 26.
Foote, J. Harvey, doing business as Stain-Off Company, Burlington, Vt. Preparation for use in removing discoloration from the teeth. 175,856; June 26.
Forest City Manufacturing Company, St. Louis, Mo. Ladies' and misses' aprons and house dresses. 162,397; June 26.
Fox, John J., Hancock, Mich. Hair tonic. 170,635; June 26.
French Swiss Noodle Company. (See Foltzer, Charles.)
Fromm, F. H., doing business as F. H. Fromm & Co., Philadelphia, Pa. Sardines packed in oil. 162,924; June 26.
G & H Products Co. (See Gleich, Valentine A.)
Gash, Abraham, New York, N. Y. Winter-pressed cottonseed salad oil flavored with pure olive oil. 173,819; June 26.
Gaspari, Laura, New York, N. Y. Deodorants. 175,483; June 26.
Gillet & Fils, Villeurbanne, France. Apparatus for permitting the matching of color shades. 177,181; June 26.
Gleich, Valentine A., doing business as G & H Products Co., Columbus, Ohio. Writing inks. 175,784; June 26.
Golden, Robert, New York, N. Y. Spotlights and light projectors. 179,145; June 26.
Goodell-Pratt Company, Greenfield, Mass. Breast, bench, and hand drills. 176,620; June 26.
Goodman, Samuel, Baltimore, Md. Suits. 173,416; June 26.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Hosiery and men's knitted and textile underwear. 171,270; June 26.
Graham, William A., doing business as Parkstone Laboratory, Chicago, Ill. Bilary antiseptic. 175,862; June 26.
Greenwald Brothers Incorporated, Philadelphia, Pa. Hosiery. 157,032; June 26.
Gudebrod Bros. Silk Co., New York, N. Y. Spool silk. 175,785; June 26.
Guest, Keen & Nettlefords Limited, Smethwick, England. Screws, nuts, band, fasteners, bolts, nails, etc. 166,683; June 26.
H. A. D. Sales & Engineering Co., Not Incorporated. (See Douglas, Harry A.)
Hass Lieber Grocery Co., St. Louis, Mo. Coffee. 175,863; June 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hartmann Trunk Company, Racine, Wis. Waterproof cloth or fabric which forms the outside covering for trunks. 147,289; June 26.
Heidbrink Company, The, Minneapolis, Minn. Medicinal preparation to relieve pain. 176,998; June 26.
Heidner & Grinnell, Inc., Tacoma, Wash. Toothbrushes, hairbrushes, and nailbrushes. 178,247; June 26.
Hendricks, William H., doing business as Daisy Dish Pan Company, New Haven, Conn. Nonenameled dish pans. 152,799; June 26.
Hikecut Company. (See Van Der Vygh, Frans.)
Hilton, Joseph, New York, N. Y. Men's, young men's, and boys' clothing and haberdashery. 153,507; June 26.
Hoffman, Elic A., doing business as E. A. Hoffman Candy Co., also as Hoffman's, Los Angeles, Calif. Candy and chocolates. 159,024; June 26.
Holtz, Louis, and Sons, Inc., Rochester, N. Y. Dress coats, overcoats, and topcoats. 175,243; June 26.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. 175,145; June 26.
Houtain, Elsie D., Brooklyn, N. Y. Magazine published monthly. 179,869; June 26.
Hulburt, H. L., doing business as Jely-Rite Fruit Company, San Jose, Calif. Concentrated fruit pectin, fruit preserves, jellies, jams, etc., containing added pectin. 169,249; June 26.
Huyler's, New York, N. Y. Candy. 175,657; June 26.
Icy Hunni Co., Milwaukee, Wis. Ice cream or other frozen dainties. 173,706; June 26.
Ingersoll Redipoint Company, Inc., New York, N. Y. Pencils, pens, leads, and erasers. 174,451; June 26.
International Chemical Company of America, Wilmington, Del., and Washington, D. C. Insecticide spray. 177,129; June 26.
International Corset Company, Aurora, Ill. Combination corsets and brassières. 174,784; June 26.
International Corset Company, Aurora, Ill. Corsets, brassières, and combination corsets and brassières. 174,785; June 26.
Interstate Corset Company, New York, N. Y. Corsets and brassières. 176,739; June 26.
Inter-State Oil Company, Minneapolis, Minn. Lubricating oils and greases. 121,865; June 26.
Irene, Madame, New York, N. Y. Brassières and women's underwear. 173,498; June 26.
Jakobs, Nachem, doing business as Netherlands Haarlem Oil Manufacturing Company, Philadelphia, Pa. Medicinal oil for treatment of kidney, liver, bladder, etc., troubles. 171,998; June 26.
Jely-Rite Fruit Company. (See Hulburt, H. L.)
Joannes Bros. Co., Green Bay, Wis. Baking powder, bluing, lye, and laundry starch. 172,878; June 26.
Judkins, W. V., & Son, Boston, Mass. Silk ribbons in the piece. 177,672; June 26.
Juilliard, A. D., & Co., Inc., New York, N. Y. Cotton, duck, and canvas piece goods. 177,673; June 26.
Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes. 170,196; June 26.
Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes. 170,198–9; June 26.
Kalasign Company of America. (See Merchants Publishing Company.)
Kann, William L., Pittsburgh, Pa. Lumber, both finished and unfinished. 174,661; June 26.
Kassman & Kessner Inc., New York, N. Y. Men's hats and caps. 174,663; June 26.
Kaufman-Clifford, Inc., Chicago, Ill. Magazines published monthly. 173,331; June 26.
Kenilworth Manufacturing Co. Inc., New York, N. Y. Knickerbockers or bloomers to be worn as outer garments or undergarments. 170,887; June 26.
Kings County Packing Co., Armona, Calif. Canned and preserved figs, canned fruits and vegetables. 171,328; June 26.
Kings County Packing Co., Armona, Calif. Canned fruits. 171,329; June 26.
Klein-Messner Co., Inc., New York, N. Y. Cotton piece goods. 171,331; June 26.
Laboratorio Chimico Farmaceutico Moderno Di Granelli Candiani & C., Turin, Italy. Magnesia used for pharmaceutical purposes. 173,794; June 26.
Laboratorio Chimico Farmaceutico V. Baldacci. (See Baldacci, Valentino.)
Lanman & Kemp Inc., New York, N. Y. Medicinal seed. 175,874; June 26.
Lee, Jackson D., Wyncote, Pa. Powders and tablets to aid digestion and relieve neuralgia and headaches, etc. 174,789; June 26.
Lehr, Horace, doing business as H. Lehr & Co., Easton, Pa. Upright, grand, etc., pianos, player pianos, and phonographs. 177,495; June 26.
Levene, Ben, Inc., New York, N. Y. Ladies' hosiery. 173,395; June 26.
Levey Printing Company, Indianapolis, Ind. Periodical magazine. 173,503; June 26.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Reducing soap. 174,459; June 26.
Lilly, Eli, and Company, The, Indianapolis, Ind. Soap. 166,459; June 26.
Lincoln Knit Goods Mills. (See Ely & Walker Dry Goods Company.)
Lindsay Co-Operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 175,610; June 26.
Lyradion Manufacturing Company, Mishawaka, Ind. Radio receiving sets, loud speakers, batteries, amplifying horns, etc. 175,091; June 26.
Lyradion Manufacturing Company, Mishawaka, Ind. Phonographs both alone and in combination with radio receiving sets. 177,790; June 26.
McDonagh, Wm., & Sons, New York, N. Y. Toilet articles—viz, tooth paste. 175,669; June 26.
Margulies, Larry J., New York, N. Y. Women's dresses and waists. 176,902; June 26.
Marshall & Muller, Lodi, Calif. Fresh deciduous fruits and grapes. 174,581; June 26.
May Hosiery Mills, Incorporated, Burlington, N. C. Hosiery, underwear, and outer garments. 170,589; June 26.
Mead Johnson & Co., Evansville, Ind. Specially-prepared food for infants. 171,939; June 26.
Mengart Knitting Mills, New York, N. Y. Sweaters, dresses, bathing suits, mufflers, knitted gloves, stockings, etc. 175,149; June 26.
Mengo Products Company, Pittsburgh, Pa. Adhesive patches. 150,871; June 26.
Merchants Publishing Company, doing business as Kalasign Company of America, Kalamazoo, Mich. Advertising cards and placards. 167,529; June 26.
Michigan State Auto School, Inc., Detroit, Mich. Electric batteries. 174,092; June 26.
Nancy Hubbard Company. (See Watson, Arthur C.)
Netherlands Haarlem Oil Manufacturing Company. (See Jakobs, Nachem.)
Newman, Sigmund, doing business as S. Newman & Company, New York, N. Y. Name of a magazine or publication published from time to time, specializing on subjects pertaining to radio telegraphy and telephony. 179,380; June 26.
Niagara Alkali Company, Niagara Falls, N. Y. Flake lye used as detergent. 169,917; June 26.
Norfett, John C., doing business as Royal Progressive Company, Brooklyn, N. Y. General tonic. 156,290; June 26.
Northwestern Bell Telephone Company, Des Moines, Iowa, and Omaha, Nebr. Monthly periodical. 179,218; June 26.
Olympia Canning Company, Olympia, Wash. Canned fruits. 169,080; June 26.
Oriental Notions Company, New York, N. Y. Hair nets. 177,019; June 26.
Osman, John, Atlanta, Ga. Intestinal regulator. 174,407; June 26.
Parfumerie Caron. (See Daltroff, E., & Cie.)
Parfumerie Roger et Gallet, Paris, France. Soaps, soap pastes, and soap powder. 174,589; June 26.
Parfumerie Roger et Gallet, Paris, France. Paste and powders for beautifying and preserving the teeth, skin, and hair, and perfumery. 174,590; June 26.
Park & Tilford, New York, N. Y. Cream of tartar. 173,241; June 26.
Parks & Bohne, Inc., St. Louis, Mo. Automobile transmission bands. 176,645; June 26.
Parkstone Laboratory. (See Graham, William A.)
Parrett and Swank, North Manchester, Ind. Compound for the treatment of cancers. 171,548; June 26.
Peak, William C., Chicago, Ill. Phonograph records. 170,209; June 26.
People's Fuel & Supply Co., Chicago, Ill. Ice cream. 159,176; June 26.
Petrich, Mike G., Cleveland, Ohio. Preparation for the treatment of cancer. 171,187; June 26.
Petrich, Paul, doing business as Cornado Fish Co., San Diego, Calif. Canned fish. 174,150; June 26.
Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. 158,727; June 26.
Philippe, Louis, Inc., New York, N. Y. Rouge, powder, and rouge compacts, brilliantines, etc. 173,105; June 26.
Philips, Ralph S., New York, N. Y. Underwear of textile material for women and girls. 174,750; June 26.
Platt, Harry B., New York, N. Y. Men's and boys' outer garments. 176,916; June 26.
Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 176,214; June 26.
Prince Macaroni Mfg. Co., Boston, Mass. Sauce, a combination of mushrooms, tomatoes, chicken, and tomato paste. 175,808; June 26.
Pure Oil Company, The, Columbus, Ohio. Cylinder oil. 178,122; June 26.
Pure Oil Company, The, Columbus, Ohio. Engine oil. 178,136; June 26.
Ragbag Sisters Company, The, Grand Rapids, Mich. Statuettes. 174,638; June 26.
Red-O-Led Plaster Co., The, Morgantown, W. Va. Drawing plaster. 174,799; June 26.
Reed, Wm., Engineering Company, Louisville, Ky. Oily liquid for impregnating the filling mass of air filters. 175,371; June 26.
Respro Inc., Providence, R. I. Electrical insulating material. 162,199; June 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rheinauer-Roth Knitting Mills, Inc., New York, N. Y. Knitted piece goods of wood, worsted, etc. 177,693; June 26.
Rhodes & Ripley Clothing Company, Boston, Mass. Overcoats for men, women, and children. 173,724; June 26.
Richards, Joseph, Company Inc., New York, N. Y. Printed books and their component parts. 175,407; June 26.
Robbins, William G., doing business as Webber Chemical Co., Los Angeles, Calif. Compound sirups, compound extract of coca leaves and kola nuts. 169,257; June 26.
Roche, William E., doing business as The Roche Fruit and Produce Co., Yakima, Wash. Fresh apples. 171,552; June 26.
Rochon, Isidore, Fall River, Mass. Salve for piles, burns, and open sores. 173,725; June 26.
Rome Importing Co., New York, N. Y. Olive oil. 175,680; June 26.
Royal Progressive Company. (See Norfett, John C.)
Sachs Bros. and Jaikut, New York, N. Y. Infants' wear. 176,655; June 26.
Safety Car Heating and Lighting Company, The, Orange, N. J., and New Haven, Conn. Electric lighting systems for use on railroad passenger cars, electric fans, water coolers, and storage batteries. 160,978; June 26.
Salomon, David I., doing business as David I. Salomon Silk Co., New York, N. Y. Silk piece goods. 172,397; June 26.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., New York, N. Y. Pile fabrics in the piece. 159,118; June 26.
Sanderson's Tintine Co., Lincoln, Nebr. Shoe-shining preparation having dyeing properties. 177,245; June 26.
Sanford, Chamberlain & Albers Company, Knoxville, Tenn. Salicylic acid, sulphate quinine, domestic ammonia, sirup of squills, etc. 175,408; June 26.
Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet paper and paper towels. 176,048; June 26.
Scribner's, Charles, Sons, New York, N. Y. Monthly publication. 178,631; June 26.
Schmidt-Holland Inc., New York, N. Y. Gut and metal strings for stringed musical instruments. 161,652; June 26.
Schratter, Alfred, doing business as Schratter Brothers, New York, N. Y. Canned peppers. 141,134; June 26.
Schwartz, Chas., & Son, Washington, D. C. Watch movements. 168,732; June 26, 1923.
Seifert, Oswald, Salt Lake City, Utah. Blood purifiers, stomach tonic, cough sirup, etc. 169,376; June 26.
Seymour Manufacturing Company, The, Seymour, Conn. Metal electrodes. 175,951; June 26.
Shamrock Overall Mfg. Co., Louisville, Ky. Overalls. 171,710; June 26.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Fountain pens. 157,185; June 26.
Shirland Knitting Mills. (See Ellis, John S.)
Simon, Franklin, & Co. Inc., New York, N. Y. Men's, boys', women's and girls' furnishings, undergarments, and clothing. 170,431; June 26.
Sisk, Albert W., & Son, Preston, Md. Canned fruits and vegetables. 166,718; June 26.
Skratch Manufacturing Co., Los Angeles, Calif. Ointment for itching scalp, itching eczema, seven-year itch, etc. 175,744; June 26.
Smith, Hogg & Co., New York, N. Y. Cotton piece goods. 176,224; June 26.
Snow Cloud Ammonia Company, Boston, Mass. Ammonia. 175,683; June 26.
Sommer & Runge, Berlin, Germany. Laboratory apparatus for investigating oils and fats, parts of such apparatus, consistency meters, etc. 157,336; June 26.
Spangler Candy Co., Bryan, Ohio. Candy. 175,815; June 26.
Stain-Off Company. (See Foote, J. Harvey.)
Standard Crayon Manufacturing Company, Danvers, Mass. Medicinal preparation for inflammatory, congested, and painful conditions where local treatment is indicated. 175,627; June 26.
Standard Medical Society, Inc., The, Baltimore, Md. Tablets for colds, coughs, la grippe, headache, and neuralgia. 166,320; June 26.
Standard Oiled Clothing Co., New York, N. Y. Raincoats and rain articles, etc. 173,733; June 26.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Transformer oil. 175,747; June 26.
Stein, Samuel F., Williamsport, Pa. Telephone instruments. 179,971; June 26.
Stern, Joseph, & Sons, Inc. New York, N. Y. Packaged meats and meat products in general. 156,718; June 26.
Sternlop, Axel U., Worcester, Mass. Cold cream. 162,775; June 26.
Stickles, L. D., Shoe Co., The, Red Wing, Minn. Shoes. 173,449; June 26.
Surpass Chemical Co. Inc., Albany, N. Y. Chemical preparation for bleaching material. 175,170; June 26.
Swartz Brothers, Chicago, Ill. Automobile and cycle tire boots and patches and patching material for rubber tires. 158,900; June 26.
Teagle Company, The, Cleveland, Ohio. Telephone adapters for coupling telephone receivers to sound amplifiers. 179,337; June 26.
"3 W" Powder Company, Los Angeles, Calif. Washing powder. 170,307; June 26.
Trabulsi, Philip, doing business as Trabulsi Knit Fabric Co., New York, N. Y. Knitted cravats. 177,151; June 26.
Tree Lovers Association of America, Aurora, Ill. Monthly periodical. 179,015; June 26.
United Petroleum Asiatic Company, San Francisco, Calif. Kerosene. 175,281; June 26.
U. S. Tool Company, Inc., Newark, N. Y. Apparatus and appurtenances used in radiotelephony. 178,783; June 26.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Chemical compound used as an accelerator in the manufacturing of rubber products to hasten the curing of rubber. 175,631; June 26.
Van Der Vygh, Frans, doing business as Hikecut Company, New York, N. Y. Pocket tool knives. 176,343; June 26.
Van Erp, Arnold, Oakland, Calif. Horse-radish and mustard, jellies, jams, etc. 173,154; June 26.
Voss & Stern, New York, N. Y. Cotton piece goods. 160,312; June 26.
Voss & Stern, New York, N. Y. Cotton piece goods containing silk stripe. 160,318; June 26.
Watson, Arthur C., doing business as Nancy Hubbard Company, Los Angeles, Calif. Candy. 171,112; June 26.
Webber Chemical Co. (See Robbins, William G.)
Weisberg, Emily R., doing business as Evol Chemical Company, New York, N. Y. Medicine for the treatment of impotence and frigidity. 159,004; June 26.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Manila rope. 176,773; June 26.
Whitman, Clarence & Son, Inc., Katonah and New York, N. Y. Printed and piece-dyed silk and cotton and cotton fabrics. 177,713; June 26.
Wile, Julius, Sons & Co., New York, N. Y. Tooth paste, cold cream, talcum powder, and perfume. 175,828; June 26.
Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. Turpentine substitute. 163,160; June 26.
Witmark, M., & Sons, New York, N. Y. Sheet music. 179,122; June 26.
Yardley & Co., Limited, London, England. Bath salt tablets, toilet water, hair lotion, complexion cream, etc. 174,376; June 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Crescent Coal Co. 169,696; June 26.

CLASS 2.

Holy-water fountains, Pocket. Matre & Company. 169,658; June 26; Serial No. 166,951; published Mar. 27, 1923.

Paper boxes. Schmeer's Paper Box Company. 169,631; June 26; Serial No. 174,112; published Mar. 27, 1923.

CLASS 3.

Buckles and straps for baggage, etc. J. H. Tabler. 169,594; June 26; Serial No. 137,973; published Mar. 27, 1923.

Cardcases, pocketbooks, portfolios. L. Stein. 169,626; June 26; Serial No. 173,448; published Mar. 27, 1923.

CLASS 4.

Dusting and polishing cloth, Treated. J. E. Eastmond. 169,681; June 26; Serial No. 173,181; published Mar. 27, 1923.

Soaps, Toilet. Myrurgia S. A. 169,580; June 26; Serial No. 159,360; published Mar. 27, 1923.

Soaps, Toilet. Myrurgia S. A. 169,582; June 26; Serial No. 159,368; published Mar. 27, 1923.

CLASS 5.

Cellulose nonshrinking, noncracking capping fluid. Armin Degener, Inc. 169,635; June 26; Serial No. 175,072; published Mar. 27, 1923.

CLASS 6.

Antiseptic mouth washes. Miller & Meissner. 169,656; June 26; Serial No. 167,578; published Mar. 6, 1923.

Bath balm, hair pomade, sachets, beautifier, etc. M. B. Williats. 169,618; June 26; Serial No. 172,628; published Mar. 6, 1923.
Battery compound. Hanson & Moe. 169,654; June 26; Serial No. 168,468; published Mar. 20, 1923.
Bay rum, borax powder, carbolic acid, etc. Continental Drug & Chemical Co. 169,591; June 26; Serial No. 150,995; published Feb. 27, 1923.
Blue, Ultramarine. Standard Ultramarine Co. 169,662; June 26; Serial No. 170,906; published Mar. 20, 1923.
Calcium carbide, nitric acid, and nitrates. Aluminum-Industrie-Aktien-Gesel'schaft. 169,682; June 26; Serial No. 173,022; published Mar. 27, 1923.
Camphor used in celluloid. Chemical substitute for. H. A. Metz & Co. 169,604; June 26; Serial No. 171,940; published Mar. 20, 1923.
Catarrh jelly. Crown Tartarex Co. 169,663; June 26; Serial No. 170,929; published Mar. 20, 1923.
Chemical for recharging batteries. Hdyro Manufacturing Company. 169,708; June 26.
Chemical preparation used on dyed furs. A. Kosofsky. 169,609; June 26; Serial No. 172,479; published Mar. 6, 1923.
Chemicals, medicines, and pharmaceutical prenarations. E. R. Squibb & Sons. 169,655; June 26; Serial No. 168,435; published Feb. 27, 1923.
Clay, Face-treating. G. A. Robinson. 169,606; June 26; Serial No. 172,440; published Feb. 27, 1923.
Cough sirups. Puente & Cicero. 169,578; June 26; Serial No. 161,334; published Mar. 6, 1923.
Cream, Massage. J. E. Hooke. 169,668; June 26; Serial No. 171,169; published Mar. 27, 1923.
Dental anaesthetic. S. E. Donohue. 169,697; June 26.
Dental preparations. C. S. Long. 169,689; June 26; Serial No. 165,798; published Feb. 27, 1923.
Eyewash. I-Ez Co. 169,644; June 26; Serial No. 170,433; published Mar. 20, 1923.
Hair-combing cream. Edward Wesley & Company. 169,617; June 26; Serial No. 172,625; published Mar. 6, 1923.
Hair elixirs, growers, brilliantines, straighteners, and shampoos. H. L. Trotman. 169,509; June 26; Serial No. 171,394; published Mar. 20, 1923.
Hair grower. Robinette Co. 169,657; June 26; Serial No. 167,195; published Mar. 6, 1923.
Hair tonic. G. A. Menzie. 169,616; June 26; Serial No. 172,606; published Mar. 6, 1923.
Ice-box deodorants. Kanak Company. 169,645; June 26; Serial No. 170,249; published Feb. 27, 1923.
Insecticide. C. Peterson. 169,683; June 26; Serial No. 172,761; published Mar. 20, 1923.
Laxative preparation. Prune. J. T. Murray. 169,641; June 26; Serial No. 170,345; published Mar. 20, 1923.
Laxatives. Marmola Company. 169,585; June 26; Serial No. 155,357; published July 18, 1922.
Liniment. C. E. Claflin. 169,612; June 26; Serial No. 172,515; published Feb. 27, 1923.
Liniments. C. A. Burke. 169,587; June 26; Serial No. 158,074; published Mar. 6, 1923.
Medicinal iron preparation. A/S Ferrosan. 169,686; June 26; Serial No. 166,430; published Mar. 27, 1923.
Medicinal preparation. Schering & Glatz, Inc. 169,629; June 26; Serial No. 174,033; published Feb. 27, 1923.
Medicinal preparation for the treatment of rheumatism. B. Pérez. 169,592; June 26; Serial No. 147,307; published Mar. 6, 1923.
Medicinal preparation of tonic and laxative properties. Thompson Medical Co. 169,667; June 26; Serial No. 171,046; published Mar. 27, 1923.
Medicinal preparations for cramps, diarrhea, and colds. Walker Bros. Co. 169,680; June 26; Serial No. 173,263; published Mar. 27, 1923.
Medicine, Goiter. Allen Remedy Company. 169,586; June 26; Serial No. 158,209; published Mar. 6, 1923.
Oil to prevent perspiration of the feet. K. Kosinski. 169,614; June 26; Serial No. 172,601; published Mar. 6, 1923.
Pastils, Asthmatic. Samuel Kidder & Co. Inc. 169,650; June 26; Serial No. 168,974; published Mar. 20, 1923.
Perfume and face powder. J. Grossmith & Son Limited. 169,598; June 26; Serial No. 170,979; published Mar. 20, 1923.
Perfumes. Lionel Trading Co. 169,640; June 26; Serial No. 171,333; published Jan. 30, 1923.
Perfumes, toilet waters, face and talcum powders, face lotions, etc. Paul Prot & Cie. 169,646; June 26; Serial No. 170,082; published Feb. 27, 1923.
Perfumes, toilet waters, face lotions, etc. La Societe Anonyme "Parfums Guerlain." 169,642; June 26; Serial No. 170,938; published Mar. 6, 1923.
Petroleum jelly, hair pomade, and hair tonic, etc. Chesebrough Manufacturing Co. (Consolidated). 169,652; June 26; Serial No. 168,596; published Mar. 6, 1923.
Pharmaceutical preparation for diseases of the stomach, intestines, etc. A. Wattiet. 169,607; June 26; Serial No. 172,455; published Feb. 27, 1923.
Pharmaceutical preparation for the treatment of hyperacidity, gastritis, etc. Lafayette Pharmacal Company. 169,613; June 26; Serial No. 172,541; published Mar. 6, 1923.
Powder, face creams, perfumes, etc., Face. C. L. Klapp. 169,588; June 26; Serial No. 155,696; published Feb. 27, 1923.
Powders and rouges, Face. Lionel Trading Co. 169,675; June 26; Serial No. 174,085; published Apr. 24, 1923.
Powders, perfume, Face and talcum. Franklin Simon & Co. 169,579; June 26; Serial No. 160,185; published Mar. 6, 1923.
Preparation for cleaning the scalp. Atlanta Barbers Supply Company. 169,610; June 26; Serial No. 172,502; published Mar. 6, 1923.
Preparation for the relief and cure of indigestion. G. P. Maranto. 169,648; June 26; Serial No. 169,600; published Mar. 20, 1923.
Preparation for the relief of dyspepsia, indigestion, etc. S. Chase. 169,611; June 26; Serial No. 172,513; published Mar. 6, 1923.
Preparation for the treatment of rheumatism, paralysis, pneumonia, etc. Paxtonic Blood Food Co. 169,621; June 26; Serial No. 172,760; published Mar. 6, 1923.
Preparation for use in the treatment of the hair. H. L. Holt. 169,679; June 26; Serial No. 173,285; published Mar. 27, 1923.
Preparations for destroying weeds, sprays for plants, shrubs, and trees, Bordeaux mixture, etc. James Good, Inc. 169,685; June 26; Serial No. 166,740; published Mar. 20, 1923.
Rodents. Preparation for exterminating. T. Meyer. 169,600–1; June 26; Serial Nos. 171,739–40; published Mar. 20, 1923.
Salve, Healing. J. Féraut. 160,603; June 26; Serial No. 171,828; published Mar. 20, 1923.
Silk, Material for bleaching and degumming. Surness Chemical Co. 169,619; June 26; Serial No. 172,658; published Mar. 6, 1923.
Soldering flux in salts, paste, and fluid forms. F. Chapman. 169,661; June 26; Serial No. 170,123; published Mar. 20, 1923.
Sterilizing preparation used in surgery, Skin-. Empire Biochemical Company. 169,605; June 26; Serial No. 172,373; published Feb. 27, 1923.
Tablets and capsules for headaches, etc. B. Waldow. 169,745; June 26.
Talcum, shampoo jelly, medicinal plasters, and salve. W. M. Benedict. 169,643; June 26; Serial No. 170,536; published Mar. 20, 1923.
Tonic, blood purifier and rheumatism medicine. J. G. Skeehan. 169,583; June 26; Serial No. 158,651; published Feb. 27, 1923.
Tonic for the skin. Imperial Hygienic Co. 169,608; June 26; Serial No. 172,476; published Feb. 27, 1923.
Tooth paste and tonic for the gums. Crown Tartarex Co. 169,664; June 26; Serial No. 170,930; published Mar. 20, 1923.
Water, Lavender. J. Grossmith & Son, Limited. 169,665; June 26; Serial No. 170,976; published Mar. 20, 1923.

CLASS 8.

Ash trays. R. E. Raney. 169,691; June 26; Serial No. 158,007; published Mar. 27, 1923.
Cigarette holders. J. F. Rioux. 169,678; June 26; Serial No. 173,610; published Mar. 27, 1923.

CLASS 10.

Fertilizer. Commercial. Armour Fertilizer Works. 169,633; June 26; Serial No. 174,952; published Mar. 27, 1923.

CLASS 12.

Building specialties, Metal. Donley Brothers Co. 169,590; June 26; Serial No. 154,491; published Mar. 13, 1923.
Plaster. Iowana Gypsum Products Co. 169,589; June 26; Serial No. 154,603; published Feb. 6, 1923.

CLASS 13.

Automobile pedal pads and accelerator heel rests. Auto Pedal Pad Co. 169,725; June 26.
Partitions, Steel toilet. Litterer Bros. Manufacturing Company. 169,724; June 26.

CLASS 15.

Candles. West India Oil Company. 169,628; June 26; Serial No. 173,798; published Mar. 27, 1923.
Oils, greases, and gasoline, Lubricating. Kansas City Refining Sales Company. 169,638; June 26; Serial No. 175,248; published Mar. 27, 1823.
Oils, lubricating. Standard Oil Company. 169,637; June 26; Serial No. 175,223; published Mar. 27, 1923.
Oils, Lubricating. United Marine & Fuel Corporation. 169,634; June 26; Serial No. 175,034; published Mar. 27, 1923.

CLASS 16.

Colors, varnish stain, etc. California Paint Company. 169,659; June 26; Serial No. 166,812; published Mar. 27, 1923.
Paint. Goheen Corporation. 169,596; June 26; Serial No. 129,129; published Mar. 27, 1923.
Paint pigments. Krebs Pigment & Chemical Company. 169,622; June 26; Serial No. 172,841; published Mar. 27, 1923.
Paint, Ready-mixed. H. B. Davis Company. 169,649; June 26; Serial No. 169,538; published Mar. 27, 1923.
Paints or calcimines, Wall-finish. McPhee & McGinnity Company. 169,615; June 26; Serial No. 172,605; published Mar. 27, 1923.
Polish, Furniture. J. F. Dutra. 169,577; June 26; Serial No. 164,792; published Mar. 27, 1923.

Polishes, Automobile and furniture. T. & A. Chemical Company. 169,651; June 26; Serial No. 168,742; published Mar. 27, 1923.

CLASS 17.

Cigars. Sig. C. Mayer & Company. 169,707; June 26.

CLASS 21.

Electric-light fixtures, Metal canopies for. G. W. Conner. 169,698; June 26.
Radio receiving, detecting, amplifying, and transmitting apparatus and parts thereof. Radio Corporation of America. 169,727; June 26.

CLASS 23.

Cutlery. P. J. Michels. 169,699; June 26.
Elevators, escalators, endless carriers, etc. Otis Elevator Company. 169,693; June 26.
Elevators, escalators, endless carriers, etc. Otis Elevator Company. 169,713; June 26.
Lubricators, oil-hole covers, oil cups, etc., Machine and bearing. Bay State Stamping Company. 169,730; June 26.
Metal-working machines and tools. National Acme Company. 169,721–2; June 26.
Milling and relieving machines and profile grinders. Clark-Mesker Company. 169,726; June 26.

CLASS 26.

Rules, Folding. Westcott Rule Company. 169,733; June 26.
Tools, and particularly levels. Peerless Level & Tool Co. 169,711; June 26.

CLASS 28.

Buttons, Collar. Freeman Daughaday Co. 169,739; June 26.
Flatware, tableware, and cutlery, Silver-plated. Oneida Community, Limited. 169,692; June 26.

CLASS 29.

Brushes. John L. Whiting-J. J. Adams Company. 169,593; June 26; Serial No. 139,776; published July 11, 1922.
Powder puffs. M. Levy. 169,720; June 26.

CLASS 32.

Beds, Closet and wall. Roberti Bros. 169,630; June 26; Serial No. 174,110; published Mar. 27, 1923.
Cabinets, Kitchen. McDougall Company. 169,632; June 26; Serial No. 174,846; published Mar. 27, 1923.
Furniture, Household. O. W. Richardson & Co. 169,653; June 26; Serial No. 168,553; published Mar. 27, 1923.
Office and phonograph record racks. La Salle Manufacturing Company. 169,620; June 26; Serial No. 172,748; published Mar. 27, 1923.

CLASS 34.

Gas from coal, Apparatus used in the manufacture of. Improved Equipment Company. 169,710; June 26.

CLASS 35.

Blow-out patches, fan belts, brake linings, etc. H. M. Levin. 169,723; June 26.
Tires and inner tubes. "81" Tire Stores. 169,743; June 26.
Tires, Pneumatic vehicle. Carlisle Tire Corporation. 169,736; June 26.

CLASS 36.

Musical instruments. A. Buffet. 169,734; June 26.

CLASS 37.

Paper, Printing and writing. Hampshire Paper Company. 169,746–7; June 26.
Paper towels. West Disinfecting Company. 169,742; June 26.

CLASS 38.

Papers and bulletins, Trade. National Retail Dry Goods Association. 169,690; June 26; Serial No. 165,704; published Mar. 27, 1923.
Periodical issued weekly. National Association of Hosiery and Underwear Manufacturers. 169,666; June 26; Serial No. 171,033; published Mar. 27, 1923.
Periodical, Plumbing and heating. Domestic Engineering Co. 169,684; June 26; Serial No. 172,589; published Mar. 27, 1923.
Photographs. J. F. Wiggin. 169,738; June 26.

CLASS 39.

Boots and shoes, Leather. Krohn-Fechheimer Co. 169,581; June 26; Serial No. 160,013; published Aug. 22, 1922.
Clothing, Waterproof. Alligator Oil Clothing Company. 169,729; June 26.
Garments, Outer wash. N. Erlanger, Blumgart & Co. 169,741; June 26.
Gloves. Ohio Glove & Manufacturing Company. 169,740; June 26.
Hats, Men's. Long's Hat Stores. 169,717; June 26.
Hosiery. Household Hosiery Mills, Inc. 169,701; June 26.
Hosiery. Real Silk Hosiery Mills. 169,737; June 26.
Hosiery. D. Salwen & Co. 169,715; June 26.
Knitted outer garments. Allandale Knitting Mills, Inc. 169,712; June 26.
Shoes. H. C. Rosenberg. 169,744; June 26.
Shoes. Shaft Pierce Shoe Company. 169,735; June 26.
Suits. Rosenwald & Weil, Inc. 169,704; June 26.
Suits, coats, and pants, ladies' skirts, suits and coats, Men's. Lorraine Manufacturing Company. 169,719; June 26.
Suits, coats, and shoes, women's and children's dresses and waists. R. H. White Company. 169,714; June 26.
Suspenders and belts. American Wholesale Corporation (Baltimore Bargain House). 169,731; June 26.
Sweaters. J. S. Fleischer. 169,706; June 26.

CLASS 40.

Combs, American Hard Rubber Company. 169,623; June 26; Serial No. 173,025; published Mar. 27, 1923.
Combs, Hair-straightening. O. R. Altwein. 169,660; June 26; Serial No. 166,733; published Mar. 27, 1923.
Hatbands. McKibbin, Driscoll & Dorsey, Inc. 169,728; June 26.
Needlework, Designs used for art. E. M. Hammond. 169,647; June 26; Serial No. 169,852; published Mar. 27, 1923.

CLASS 42.

Cotton and cotton and silk mixture fabrics in the piece. Waumbek Manufacturing Company. 169,673; June 26; Serial No. 174,548; published Mar. 27, 1923.
Cotton and linen piece goods. F. Sichel. 169,669; June 26; Serial No. 175,028; published Mar. 27, 1923.
Cotton piece goods. J. W. Goddard & Sons, Incorporated. 169,702; June 26.
Cotton piece goods. W. R. Grace & Co. 169,676; June 26; Serial No. 173,927; published Mar. 27, 1923.
Cotton piece goods. Liberty & Co. Limited. 169,602; June 26; Serial No. 171,808; published Mar. 27, 1923.
Cotton piece goods. J. C. Penney Company. 169,670–1; June 26; Serial Nos. 175,022–3; published Mar. 27, 1923.
Cotton sheetings. Columbus Manufacturing Company. 169,718; June 26.
Cotton, wool, silk, etc., drapery fabrics. Joseph Derk & Co. 169,674; June 26; Serial No. 174,385; published Mar. 27, 1923.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 169,672; June 26; Serial No. 174,687; published Mar. 27, 1923.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 169,677; June 26; Serial No. 173,909; published Mar. 27, 1923.
Hair nets. Paristyle Novelty Co. 169,584; June 26; Serial No. 158,436; published Sept. 5, 1922.
Silk and cotton piece goods. Marshall Field & Company. 169,688; June 26; Serial No. 165,923; published Mar. 27, 1923.
Silk in the piece, Artificial. L. & E. Stirn. 169,627; June 26; Serial No. 173,685; published Mar. 13, 1923.
Silks in the piece. Jansen & Pretzfeld, Inc. 169,624; June 26; Serial No. 173,084; published Mar. 20, 1923.

CLASS 44.

Bandages, Medical and surgical. M. Kermes. 169,595; June 26; Serial No. 137,944; published Mar. 27, 1923.
Bandages, Suspensory. Johnson & Johnson. 169,636; June 26; Serial No. 175,146; published Mar. 27, 1923.
Bottles, Nursing. Corning Glass Works. 169,625; June 26; Serial No. 173,405; published Mar. 27, 1923.
Buffers, Manicure. C. J. Bates & Son. 169,639; June 26; Serial No. 175,295; published Mar. 27, 1923.

CLASS 45.

Coffee. Louisville Coffee Company. 169,687; June 26; Serial No. 166,080; published Apr. 17, 1923.

CLASS 46.

Candies, Chocolate-covered. George Close Co. 169,695; June 26.
Canned fruits and vegetables and dried fruit. Herbert Packing Co. 169,703; June 26.
Coffee. Joannes Bros. Co. 169,700; June 26.
Fruits, dried fruits, canned vegetables, etc., Fresh citrous. Andrews Brothers Company. 169,748; June 26.
Fruits, Fresh citrous. Lindsay Co-Operative Citrus Association. 169,716; June 26.
Ham and bacon. P. Kury. 169,694; June 26.
Ice cream, water ices, and sherbets. Baker Ice Cream Company. 169,732; June 26.
Olives, Ripe. Curtis Corporation. 169,705; June 26.
Sirup, Table. Penick & Ford, Ltd. 169,709; June 26.

CLASS 48.

Malt extract. Decatur Brewing Co. 169,597; June 26; Serial No. 120,869; published Oct. 25, 1921.

ALPHABETICAL LIST OF LABELS.

After-Shave. For an After-Shaving Lotion. H. E. Valentine. 26,157; June 26.
Alaskan. For Sugar Wafers. Taggart Baking Company. 26,153; June 26.
Aunt Susan's Famous Homemade Sandwiches. For Sandwiches. Factory Service Company. 26,114; June 26.
Automatic Salesman. For a Machine Vending Packages of Confection. O. A. Williams. 26,159; June 26.
Beverley Club. For Ginger Ale. Bartow Beverages, Inc. 26,106; June 26.
Blok-Tite. For Adhesives. Capital Rodewite Company. 26,108; June 26.
Blue-Dot. For Malt Sirup. L. M. Hirschler. 26,123; June 26.
Brook Hill Water. For Bottled Water and Water Supplied in Other Containers. Harry L. Phillips and Alverda B. Phillips. 26,144; June 26.
Brownies Root Beer. For Root Beer, a Nonintoxicating Beverage. E. H. Brown. 26,107; June 26.
Canyon Crest. For Valencias. J. H. Strait & Company. 26,152; June 26.
Cedar Creek Steamed Crab. For Steamed Crabs. U. S. Stewart & Bro. 26,151; June 26.
Che-Rene. For a Carbonated Beverage. Pabst Corporation. 26,141; June 26.
Colonial Mush. For Corn-Meal Mush. Colonial Mush Company. 26,109; June 26.
Cut-To-Fit The-Mouth. For Candy. James Brothers. 26,126; June 26.
Dello Ink. For Containers Holding Ink. Dello Ink Corp. 26,112; June 26.
De Luxe. For Canned Peas. Hayes & Co. 26,122; June 26.
Dwarfies. For Breakfast Food. Pokodot Cereal Company. 26,146; June 26.
Every Sip Is Delicious. For Coffee. Levering Coffee Company. 26,129; June 26.
Fashunit. For Union Suits. Geo. English Jr. & Co. 26,113; June 26.
Ferndale. For Butter. Davis-Cleaver Produce Company. 26,111; June 26.
Grap-Di-Vine. For a Carbonated Beverage. Pabst Corporation. 26,142; June 26.
Hamilton's. For Canned Sauerkraut. Hamilton & Sons Canning Co. 26,118; June 26.
Hartman's Liniment. For Liniment. G. Hartman. 26,121; June 26.
Health-O. For Rubbing and Massage Alcohol. Mihalovitch Co. 26,137; June 26.
Hollywood. For Hose. Harrington & Waring. 26,120; June 26.
Indian Apple-Us. For Cartons for Gloves. Indianapolis Glove Company. 26,124; June 26.
Kellogg's Krumbles. For Cereal Breakfast Food. Kellogg Company. 26,127; June 26.
Kiddie Kup. For Children's Cups. International Silver Company. 26,125; June 26.
Kranks Skin-Health Face Powder. For Face Powder. A. J. Krank. 26,128; June 26.
Luna De Oro. For Flour. Great West Mill and Elevator Company. 26,115; June 26.
Mi-Te Good. For Tobacco. Steacy-Shaeffer Tobacco Co. 26,149; June 26.
Mity Nice Bread. For Wrappers for Bread. Menasha Printing and Carton Company. 26,132; June 26.
Mondel. For Canned Sauerkraut. Hamilton & Sons Canning Co. 26,119; June 26.
Myrykle Fruit Balls. For Glass Jars Containing Medicated Fruit Balls Having Laxative Properties. M. A. Bainbridge. 26,105; June 26.
New Luster Furniture Polish. For Liquid Polishing Substance. Fred W. Cross & Co. 26,110; June 26.
"No-Leak-O" Oil Sealing. For Piston Rings. No-Leak-O Piston Ring Company. 26,140; June 26.
Ollo D'Oliva Puro. For Imported Italian Olive Oil. A. Antoniadis. 26,104; June 26.
Pitirre. For Paper Bags. U. S. Paper Goods Co. 26,155; June 26.
Pokodot. For Pancake Flour. Pokodot Cereal Company. 26,145; June 26.
Real Silk Guaranteed Hosiery. For Hosiery. Real Silk Hosiery Mills. 26,147; June 26.
Real Silk Super-Service Socks. For Hosiery. Real Silk Hosiery Mills. 26,148; June 26.
Red Indian Brand Finishing Lime. For Lime Barrels. Missisquoi Lime Works, Inc. 26,139; June 26.
Reliable Brand. For Butter. Menasha Printing and Carton Company. 26,135; June 26.
Royall's French Salad Dressing. For French Salad Dressing. Charles F. Mattlage & Sons Inc. 26,130; June 26.
Sterling Ice Cream. For Ice Cream. Menasha Printing and Carton Company. 26,131; June 26.
Sugar Loaf. For Wrappers for Bread. Menasha Printing and Carton Company. 26,136; June 26.
Sunday. For Canned Sauerkraut. Hamilton & Sons Canning Co. 26,116; June 26.
Supreme. For Malt Extract. L. Stetelman. 26,150; June 26.
T-O-T Turnover Gas Toaster. For Bread Toasters. Turn-Over-Toaster Company. 26,154; June 26.
Tempt-Her. For Candy. Chas. Weinhagen & Co. 26,158; June 26.
Testo. For Canned Sauerkraut. Hamilton & Sons Canning Co. 26,117; June 26.
The Omar Loaf. For Bread. E. B. Payne. 26,143; June 26.
Ulmanite Polish. For a Polish for All Painted and Varnished Surfaces. L. S. Ulmer. 26,156; June 26.
Umaco. For Coffee. J. Zinsmeister & Sons, Incorporated. 26,160; June 26.
Valdair Creamery Butter. For Butter. Menasha Printing and Carton Company. 26,134; June 26.
Weber. For Ice Cream. Menasha Printing and Carton Company. 26,133; June 26.
White Horse Brand No. 1 Common Lime. For Lime Barrels. Missisquoi Lime Works, Inc. 26,138; June 26.

ALPHABETICAL LIST OF PRINTS.

A Vacancy In The Department Of The Interior. For Wheat Breakfast Food. Cream of Wheat Co. 6,770; June 26.
"B. V. D." Red Woven Label. For Athletic Underwear. B. V. D. Company. 6,765; June 26.
Brownies Root-Beer. For Root Beer, a Nonintoxicating Beverage. E. H. Brown. 6,767; June 26.
Columbia New Process Records. For Graphophone Records. Columbia Graphophone Company. 6,769; June 26.
Exclusive Features of Real Silk Guaranteed Hosiery. For Hosiery. Real Silk Hosiery Mills. 6,783; June 26.
Fine flavor comes from fine quality. For Coffee. Hills Bros. 6,773; June 26.
Flavor Is The Hidden Difference. For Coffee. Hills Bros. 6,775; June 26.
Folly Towns. For Candy. Universal Theatres Concession Co. 6,785; June 26.
Hartmann Cushion Top Wardrobe Trunks. For Wardrobe Trunks. Hartmann Trunk Company. 6,771; June 26.
Janez Loops. For a Protector and Support for Earrings. Mrs. E. C. Stough. 6,784; June 26.
Krank's "Pompa" Comb. For Combination Comb and Brush for Training the Hair. A. J. Krank. 6,779; June 26.
"Onyx" Hosiery. For Hosiery. "Onyx" Hosiery Inc. 6,781; June 26.
Peter Porker says. For Foods. Allied Packers, Inc. 6,763; June 26.
Pickles in Patterns. For Heinz 57 Varieties (Food Products). H. J. Heinz Company. 6,772; June 26.
Pioneers of Safety. For First-Mortgage Real Estate Gold Bonds. Cochran & McCluer Company. 6,768; June 26.
She looks as young as ever. For Palmolive Soap. Palmolive Company. 6,782; June 26.
So Easy to Use. For Allen's Foot-Ease, a Toilet Preparation. A. S. Olmsted. 6,780; June 26.
Sunbeam. For Pure Food Products. Austin, Nichols & Co. 6,764; June 26.
Tartaroff. For Preparations for Removing Tartar, Film, and Discolorations from the Teeth. W. H. and B. Waddell. 6,786; June 26.
The hidden difference. For Coffee. Hills Bros. 6,776; June 26.
The hidden difference is Flavor! For Coffee. Hills Bros. 6,777; June 26.
The original vacuum pack. For Coffee. Hills Bros. 6,774; June 26.
The original vacuum pack keeps its fine flavor fresh for you. For Coffee. Hills Bros. 6,778; June 26.
There is only one "B. V. D." For Athletic Underwear. B. V. D. Company. 6,766; June 26.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 4.

Auto and furniture cleaner. R. Boyakin. 166,036; June 26.
Lye, Flake. Niagara Alkali Company. 169,917; June 26.
Shoe-shining preparation. Sanderson's Tintine Co. 177,245; June 26.
Soap. Eli Lilly and Company. 166,459; June 26.
Soap, Hand. Flash Chemical Company. 176,335; June 26.
Soap, Laundry. William Cluff Company. 175,769; June 26.
Soap, Reducing. F. N. Lewis. 174,459; June 26.
Soaps, soap pastes and powders. Parfumerie Roger et Gallet. 174,589; June 26.
Washing powder. "3 W" Powder Company. 170,307; June 26.

CLASS 6.

Acid, sulphate quinine, domestic ammonia, sirup of squills, etc., Salicylic. Sanford, Chamberlain & Albers Company. 175,408; June 26.
Ammonia. Snow Cloud Ammonia Company. 175,683; June 26.
Antiseptic, Biliary. W. A. Graham. 175,862; June 26.
Baking powder, bluing, lye, and laundry starch. Joannes Bros. Co. 172,878; June 26.
Barium sulphate. Etablissements Poulenc frères. 173,758; June 26.
Bath salt tablets, toilet water, hair lotion, etc. Yardley & Co. 174,376; June 26.
Blood purifiers, stomach tonic, cough sirup, etc. O. Seifert. 169,376; June 26.
Carbohydrates in the animal body and remove the symptoms of diabetes mellitus, Substance which will effect the combustion of. Connaught Antitoxin Laboratories, University of Toronto. 168,919; June 26.
Chemical compound used as an accelerator in the manufacture of rubber products. R. T. Vanderbilt Company. 175,631; June 26.
Chemical preparation for bleaching material. Surpass Chemical Co. 175,170; June 26.
Compound for the treatment of cancers. Parrett and Swank. 171,548; June 26.
Cream, Cold. A. U. Sternlof. 162,775; June 26.
Cream of tartar. Park & Tilford. 173,241; June 26.
Creams, depilatories, hair growers, etc., Cold and vanishing. Blue Bird Inc. Perfumers. 171,779; June 26.
Deodorants. L. Gaspari. 175,483; June 26.
Hair and scalp, Preparation for use in the treatment of. Mrs. E. A. Blake. 167,797; June 26.
Hair tonic. J. J. Fox. 170,635; June 26.
Intestinal regulator. J. Osman. 174,407; June 26.
Magnesia used for pharmaceutical purposes. Laboratorio Chimico Farmaceutico Moderno Di Granelli Candiani & C. 175,794; June 26.
Medicinal oil. N. Jakobs. 171,998; June 26.
Medicinal preparation. Standard Crayon Manufacturing Company. 175,627; June 26.
Medicinal preparation to relieve pain. Heidbrink Company. 176,998; June 26.
Medicinal seed. Lanman & Kemp, Inc. 175,874; June 26.
Medicine for the treatment of impotence and frigidity. E. R. Weisberg. 159,004; June 26.
Ointment for itching scalp, itching eczema, etc. Skratch Manufacturing Co. 175,744; June 26.
Ointment, Prophylactic. Stephen Craig Company. 176,001; June 26.
Pastes and powders and perfumery. Parfumerie Roger & Gallet. 174,590; June 26.
Perfume, toilet water, rouges, face powder, etc. E. Daltroff & Cie. 173,875; June 26.
Pharmaceutical preparations. V. Baldacci. 171,703; June 26.
Plaster, Drawing. Red-O-Led Plaster Co. 174,799; June 26.
Powders and tablets. J. D. Lee. 174,789; June 26.
Preparation for the treatment of cancer. M. G. Petrich. 171,187; June 26.
Preparation for use in removing discoloration from the teeth. J. H. Foote. 175,856; June 26.
Quinine and bismuth, Double idodide of. Etablissements Poulenc frères. 173,748; June 26.
Rouge, powder, and rouge compacts, brilliantines, etc. Louis Philippe, Inc. 173,105; June 26.
Salt. Capell Salt Company. 172,974; June 26.
Salve for piles, burns, and open sores. I. Rochon. 173,725; June 26.
Sodium silicate. Philadelphia Quartz Company. 158,727; June 26.
Spray insecticide. International Chemical Company of America. 177,129; June 26.
Tablets for colds, coughs, headache, etc. Standard Medical Society, Inc. 166,326; June 26.
Tonic, General. J. C. Norflett. 156,290; June 26.
Tooth paste. Wm. McDonagh & Sons. 175,669; June 26.
Tooth paste, cold cream, talcum powder, and perfume. Julius Wile Sons & Co. 175,828; June 26.
Vaccine, Specific. Etablissements Poulenc frères. 173,744; June 26.
Vaccine, Specific. Etablissements Poulenc frères. 173,746–7; June 26.
Vaccine, Specific. Etablissements Poulenc frères. 173,749–50; June 26.

CLASS 7.

Rope, Manila. Whitlock Cordage Co. 176,773; June 26.

CLASS 11.

Inks, Writing. V. A. Gleich. 175,784; June 26.

CLASS 12.

Lumber. W. L. Kann. 174,661; June 26.

CLASS 13.

Dish pans. W. H. Hendricks. 152,799; June 26.
Screws, nuts, bolts, nails, etc. Guest, Keen & Nettlefolds Limited. 166,683; June 26.
Traps, feed-water grease extractors, pot safety valves, and relief valves, Steam. American Steam Gauge & Valve Manufacturing Company. 180,409; June 26.

CLASS 15.

Kerosene. United Petroleum Asiatic Company. 175,281; June 26.
Oil, Cylinder. Pure Oil Company. 178,122; June 26.
Oil, Engine. Pure Oil Company. 178,136; June 26.
Oil, Transformer. Standard Oil Company (Incorporated in New Jersey.) 175,747; June 26.
Oils and greases, Lubricating. G. B. Carran. 179,927; June 26.
Oils and greases, Lubricating. Inter-State Oil Company 121,865; June 26.

CLASS 16.

Paint enamels. American Varnish Co. 177,891–2; June 26.
Turpentine substitute. George Wills and Sons, Ltd. 163,160; June 26.

CLASS 21.

Batteries, Electric. Michigan State Auto School, Inc. 174,092; June 26.
Batteries, Storage. Brown & Sehler Company. 178,816; June 26.
Batteries, Storage. Camel Dry Storage Battery Co. 164,694; June 26.
Electric connectors, wiring outfits, etc. H. A. Douglas. 142,829; June 26.
Electric lighting systems for use on railroad passenger cars, electric fans, water coolers, and storage batteries. Safety Car Heating and Lighting Company. 160,978; June 26.
Electrodes, Metal. Seymour Manufacturing Company. 175,951; June 26.
Insulating material, Electrical. Respro Inc. 162,199; June 26.
Lamps, Guards for electric. Flexible Steel Lacing Co. 179,190; June 26.
Radio apparatus. E. T. Cunningham. 153,200; June 26.
Radio receiving sets, loud speakers, batteries, amplifying horns, etc. Lyradion Manufacturing Company. 175,091; June 26.
Radio telephone and telegraph apparatus. De Forest Radio Telephone and Telegraph Company. 167,229; June 26.
Radio telephone and telegraph receiving sets and transmitting sets and parts. De Forest Radio Telephone & Telegraph Company. 175,472; June 26.
Radiotelephony, Apparatus and appurtenances used in. U. S. Tool Company. 178,783; June 26.
Soldering iron, Electrical. Electric Heat Unit Co. 179,402; June 26.
Spotlights and light projectors. R. Golden. 179,145; June 26.
Stoves, Electric. Electric Appliances, Inc. 179,401; June 26.
Telephone adapters for coupling telephone receivers to sound amplifiers. Teagle Company. 179,337; June 26.
Telephone Instruments. S. F. Stein. 179,971; June 26.
Thermionic detector, amplifier, and oscillator tubes. E. T. Cunningham. 178,957; June 26.

CLASS 23.

Drills, Breast, bench and hand. Goodell-Pratt Company. 176,620; June 26.
Knives, Pocket tool. F. Van Der Vygh. 176,343; June 26.
Pistons. Berguson-Skinner Corporation. 156,248; June 26.

CLASS 26.

Color shades, Apparatus for permitting the matching of. Gillet & Fils. 177,181; June 26.
Gauges and thermometers, etc., Indicating and recording. American Steam Gauge & Valve Manufacturing Company. 154,346; June 26.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Laboratory apparatus for investigating oils and fats, parts of such apparatus, etc. Sommer & Runge. 157,336; June 26.

CLASS 27.

Watch movements. Chas. Schwartz & Son. 168,732; June 26.
Watchcases. Dinhofer Bros. Inc. 176,168; June 26.

CLASS 29.

Toothbrushes, hairbrushes, and nailbrushes. Heidner & Grinnell, Inc. 178,247; June 26.

CLASS 31.

Filters, Oily liquid for impregnating the filling mass of air. Wm. Reed Engineering Company. 175,371; June 26.

CLASS 34.

Fire wagons, surface heaters, and melting kettles. Barber Asphalt Company. 176,748; June 26.
Lamp shades, Metal. Eskilstuna Stålpressnings Aktiebolag. 174,361; June 26.

CLASS 35.

Automobile and cycle tire boots and patches and patching material for rubber tires. Swartz Brothers. 158,900; June 26.
Automobile transmission bands. Parks & Bohne, Inc. 176,645; June 26.
Patches, Adhesive. Mengo Products Company. 150,871; June 26.

CLASS 36.

Musical instruments, Strings for stringed. Schmidt-Holland Inc. 161,652; June 26.
Phonograph records. W. C. Peak. 170,209; June 26.
Phonographs. Lyradion Manufacturing Company. 177,790; June 26.
Phonographs and phonograph accessories. S. Eshborn. 173,702 June 26.
Pianos, player pianos, and phonographs. H. Lehr. 177,495; June 26.

CLASS 37.

Paper and paper towels, Toilet. Sauquoit Toilet Paper Co. 176,048; June 26.
Paper, Writing. Cincinnati Cordage & Paper Co. 174,556; June 26.
Pencils, pens, leads, and erasers. Ingersoll Redipoint Company. 174,451; June 26.
Pens, Fountain. W. A. Sheaffer Pen Company. 157,185; June 26.

CLASS 38.

Books and their component parts, Printed. Joseph Richards Company. 175,407; June 26.
Cards and placards, Advertising. Merchants Publishing Company. 167,529; June 26.
Cartoon section, Newspaper. J. A. Cunningham. 178,959; June 26.
Magazine, Monthly. E. D. Boutain. 179,869; June 26.
Magazine, Name of a. S. Newman. 179,380; June 26.
Magazine, Periodical. Levey Printing Company. 173,503; June 26.
Magazines, Monthly. Dean-Hicks Company. 179,780; June 26.
Magazines, Monthly. Kaufman-Clifford, Inc. 173,331; June 26.
Magazines published semiannually. Candy Manufacturer Publishing Co. 178,955; June 26.
Music, Sheet. M. Witmark & Sons. 179,122; June 26.
Periodical, Monthly. Better Pictures Publishing Co. 175,912; June 26.
Periodical, Monthly. Northwestern Bell Telephone Company. 179,218; June 26.
Periodical, Monthly. Tree Lovers Association of America. 179,015; June 26.
Publication, Monthly. Charles Scribner's Sons. 178,631; June 26.

CLASS 39.

Aprons and house dresses, Ladies' and misses'. Forest City Manufacturing Company. 162,397; June 26.
Bloomers, pantalets, and petticoats, Women's. Eagle Skirt Company. 171,490; June 26.
Boots and shoes. Juvenile Shoe Corporation of America. 170,196; June 26.
Boots and shoes. Juvenile Shoe Corporation of America. 170,198–9; June 26.
Brassières. D. Bickum. 174,999; June 26.
Brassières. D. Bickum. 176,159; June 26.
Brassières. Birdsey Somers Company. 174,532; June 26.
Brassières and women's underwear. Madame Irene. 173,498; June 26.
Clothing and haberdashery, Men's, young men's, and boys'. J. Hilton. 153,507; June 26.
Coats, overcoats, and topcoats, Dress. Louis Holtz and Sons, Inc. 175,243; June 26.
Coats, skirts, and suits, Women's, misses', and children's. Barrist & Co. 174,764; June 26.
Coats, waistcoats, bath robes, etc., women's and girls' furnishings, undergarments, and clothing, Men's and boys'. Franklin Simon & Co. 170,431; June 26.
Corsets and brassières. Interstate Corset Company. 176,739; June 26.
Corsets and brassières, Combination. International Corset Company. 174,784; June 26.
Corsets, brassières, and combination corsets and brassières. International Corset Company. 174,785; June 26.
Cravats, Knitted. P. Trabulsi. 177,151; June 26.
Dresses and waists, Women's. L. J. Margulies. 176,902; June 26.
Dresses, rompers, caps, coats, and hats, Infants'. Sachs Bros. and Jalkut. 176,655; June 26.
Garments, Men's and boys' outer. H. B. Platt. 176,916; June 26.
Hats and caps, Men's. Kassman & Kessner Inc. 174,663; June 26.
Hosiery. Bear Brand Hosiery Co. 176,595; June 26.
Hosiery. Earle Textile Company. 173,351; June 26.
Hosiery. Fay Hosiery Mills, Incorporated. 171,989; June 26.
Hosiery. Greenwald Brothers Incorporated. 157,032; June 26.
Hosiery and men's crochet and knitted neckwear. Federal Knitting Company. 173,762; June 26.
Hosiery and men's knitted and textile underwear. W. R. Grace & Co. 171,270; June 26.
Hosiery, Ladies'. Ben Levene Inc. 173,395; June 26.
Hosiery, suspenders, garters, underwear, etc. B. Cohn. 169,949; June 26.
Hosiery, underwear, and outer garments. May Hosiery Mills, Inc. 170,589; June 26.
Knickerbockers or bloomers. Kenilworth Manufacturing Co. 170,887; June 26.
Knitted coats, jackets, and sweaters. J. S. Ellis. 175,076; June 26.
Knitted wear. D. Ballantyne Brothers & Company. 175,053; June 26.
Overalls. Shamrock Overall Mfg. Co. 171,710; June 26.
Overcoats. Rhodes & Ripley Clothing Company. 173,724; June 26.
Raincoats and rainproof men's and children's clothing. Louis N. Cohen & Co. 173,564; June 26.
Raincoats, rain articles, etc. Standard Oiled Clothing Co. 173,733; June 26.
Rubber boots and shoes. Hood Rubber Company. 175,145; June 26.
Shoes. L. D. Stickles Shoe Co. 173,449; June 26.
Suits. S. Goodman. 173,416; June 26.
Sweaters. Ely & Walker Dry Goods Company. 177,283; June 26.
Sweaters, dresses, bathing suits, mufflers, knitted gloves, stockings, etc. Mengart Knitting Mills. 175,149; June 26.
Underwear for women and girls. R. S. Philips. 174,750; June 26.

CLASS 42.

Cotton, duck, and canvas piece goods. W. D. Juilliard & Co. 177,673; June 26.
Cotton piece goods. Klein-Messner Co. 171,331; June 26.
Cotton piece goods. Charles L. Poor Co. 176,214; June 26.
Cotton piece goods. Smith, Hogg & Co. 176,224; June 26.
Cotton piece goods. Voss & Stern. 160,312; June 26.
Cotton piece goods. Voss & Stern. 160,318; June 26.
Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. 159,118; June 26.
Hair nets. Oriental Notions Company. 177,019; June 26.
Knitted piece goods. Rheinauer-Roth Knitting Mills, Inc. 177,693; June 26.
Silk and cotton and cotton fabrics, Printed and piece-dyed. Clarence Whitman & Son, Inc. 177,713; June 26.
Silk piece goods. D. I. Salomon. 172,397; June 26.
Silk piece goods and artificial-silk, cotton, etc., piece goods and combinations thereof. Bentley & Twohey Silk Co. 172,197; June 26.
Silk ribbons in the piece. W. V. Judkins. 177,672; June 26.

CLASS 43.

Silk, Spool. Gudebrod Bros. Silk Co. 175,785; June 26.
Thread, Shoe. Barbour Brothers Co. 160,335; June 26.

CLASS 44.

Surgeons' gloves. Davol Rubber Company. 176,721; June 26.

CLASS 46.

Apples, Fresh. W. E. Roche. 171,552; June 26.
Candy. George Close Co. 170,561; June 26.
Candy. Huyler's. 175,657; June 26.
Candy. Spangler Candy Co. 175,815; June 26.
Candy. A. C. Watson. 171,112; June 26.
Candy and chocolates. E. A. Hoffman. 159,024; June 26.
Candy bars. J. J. M. Carametos. 168,513; June 26.
Canned and preserved figs, canned fruits and vegetables. Kings County Packing Co. 171,328; June 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Canned fish. Coast Fishing Company. 176,327; June 26.
Canned fish. P. Petrich. 174,150; June 26.
Canned fruits. Kings County Packing Co. 171,329; June 26.
Canned fruits. Olympia Canning Company. 169,080; June 26.
Canned fruits and vegetables. Albert W. Sisk & Son. 166,718; June 26.
Canned fruits and vegetables. Atascadero Fruit Exchange. 171,346; June 26.
Canned peppers. A. Schrater. 141,134; June 26.
Coffee. Haas Lieber Grocery Co. 175,863; June 26.
Food for infants, Specially-prepared. Mead Johnson & Co. 171,939; June 26.
Fruits and grapes, Fresh deciduous. Marshall & Muller. 174,581; June 26.
Fruits, Fresh citrous. Duarte-Monrovia Fruit Exchange. 175,853; June 26.
Fruits, Fresh citrous. Lindsay Co-Operative Citrous Association. 175,610; June 26.
Horse-radish and mustard, Jellies, jams, etc. A. Van Erp. 173,154; June 26.
Ice Cream. People's Fuel & Supply Co. 159,176; June 26.
Ice cream or other frozen dainties. Icy Hunni Co. 173,706; June 26.
Lard substitute, Vegetable. Cooknut Corporation. 175,650; June 26.
Mayonnaise, catchup, Thousand Island dressing, etc. F. M. Casler. 168,755; June 26.
Meats and meat products in general, Packaged. Joseph Stern & Sons, Inc. 156,718; June 26.
Milk, Dried or desiccated. Adolph Coors Company. 162,668; June 26.
Noodles. C. Foltzer. 166,503; June 26.
Oil, Olive. Rome Importing Co. 175,680; June 26.
Oil, Winter-pressed cottonseed salad. A. Gash. 173,819; June 26.
Peanuts and all kinds of nut meats and nut products. C. A. Coari. 162,917; June 26.
Pectin, fruit preserves, jellies, etc., containing added pectin, Concentrated fruit. H. L. Hulburt. 169,249; June 26.
Pies, dumplings, etc., Meat. W. H. Brooks. 170,806; June 26.
Salad dressings. J. C. Brown. 176,446; June 26.
Sardines. F. H. Fromm. 162,924; June 26.
Sauce, a combination of mushrooms, tomatoes, chicken, and tomato paste. Prince Macaroni Mfg. Co. 175,808; June 26.
Sirups, compound extract of coca leaves and kola nuts, Compound. W. G. Robbins. 169,257; June 26.

CLASS 50.

Shoe lasts, blind awnings, animal traps, etc. Baltimore Bargain House. 117,793; June 26.
Statuettes. Ragbag Sisters Company. 174,638; June 26.
Trunks, Waterproof cloth or fabric which forms the outside covering for. Hartmann Trunk Company. 147,289; June 26.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Adams, Reginald M. (See Hinchman, Alva K., assignor.)
Aimé, Luis, West Hoboken, N. J. Clothesline fastener. 1,460,333; June 26.
Aldridge, Harry G., assignor to Huther Bros. Saw Mfg. Co., Inc., Rochester, N. Y. Cutter head. 1,459,760; June 26.
Allen, George L., Savannah, Ga. Pneumatic apparatus for cleaning, conveying, and recovering lint. 1,460,220; June 26.
Allen, Hiram, Williamsburg, Kans. Rod coupling. 1,459,869; June 26.
Allingham, James, Chicago, Ill. Mechanical movement. 1,459,963; June 26.
Allys-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
Alquist, Karl, New York, N. Y. Gearing. 1,459,964; June 26.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Co., East Peoria, Ill. Driving mechanism for washing machines. 1,460,191; June 26.
Altorfer Bros. Co. (See Altorfer, Alpheus W., assignor.)
Aluminum Company of America. (See Salisbury, Robert F., assignor.)
American Arch Company. (See Willett, A. H. and Martin, assignors.)
American Can Co. (See Symonds, Clarence M., assignor.)
American Hardware Corporation. (See Hurd, Norman B., assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
American Nicovici Drawing Instruments Corporation. (See Cosvovici, Nicolast B., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Steel Package Company, The. (See Behringer, Grover F., assignor.)
American Telephone and Telegraph Company. (See Jacobs, Oliver B., assignor.)
American Telephone and Telegraph Company. (See Jones, Alva L., assignor.)
Ames, Adelbert, jr., Tewksbury, Mass. Photograph and making the same. 1,460,122; June 26.
Anderson, Carl F., Brookfield, and L. W. Knapp, Berwyn, assignors to Conlon Electric Washer Company, Cicero, Ill. Woodworking machine. 1,459,965; June 26.
Anderson, Emil R., Chicago, Ill. Furnace grate. 1,459,870; June 26.
Anderson, James R., Hot Springs, Mont. Attachment for beds. 1,460,306; June 26.
Anderson, Roy H., St. James, Minn. Garment fastener. 1,459,966; June 26.
Andrews, Charles W., Spokane, Wash. Portable house. 1,459,761; June 26.
Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Isolator for battery separators. 1,460,010; June 26.
Ansorge, Percy L., Brooklyn, N. Y. Lighting-fixture part. Des. 62,560; June 26.
Arden Mills, Inc. (See Feldman, Harold B., assignor.)
Armstrong, Percy A. E., Loudonville, and R. P. De Vries, Newtonville, N. Y.; said De Vries assignor to said Armstrong. Electrical heating element. 1,460,048; June 26.
Arnold, Lyman, Lynn, Mass., assignor to General Electric Company. Regulating device. 1,459,967; June 26.
Arrowood, Jehu M., Valparaiso, Ind. Airplane. 1,459,942; June 26.
Ashley, Frank R. (See Maclear, James R., assignor.)
Ashworth, George B., Amsterdam, N. Y. Locomotive-grate shaker. 1,459,813; June 26.
Aspinwall, Robert S., Detroit, Mich. Lighting fixture. Des. 62,561; June 26.
Associated Equipment Company, Limited. (See Edwards, C. K., and Batty, assignors.)
Atlas Imperial Engine Company. (See Olin, August, assignor.)
Automat Molding and Folding Company, The. (See Beam, Frank E., assignor.)
Automatic-Inserting Machine Corporation. (See Penney, H. D., Whiteman, and Russ, assignors.)
Automatic Straight Air Brake Company. (See Neal, Spencer, G., assignor.)
Bachr, George, Coraopolis, Pa. Deformed bar. 1,460,090; June 26.
Bahl, Errold G., Lincoln, Nebr. Elevator control. 1,460,091; June 26.
Bailey, Ethel M., Yreka, Calif. Suture box. 1,459,943; June 26.
Bailly, Louis, assignor to The Ohio Municipal Equipment Company, Columbus, Ohio. Vacuum cleaner. 1,459,968; June 26.
Baird, Melville B., deceased, and G. A. Walls, Kansas City, Mo.; A. H. Steele, administrator; said administrator and said Walls assignors to J. C. W. Bland, Tulsa, Okla. Vending machine. 1,460,123; June 26.
Baker Brothers. (See Hallenbeck, George E., assignor.)
Bakken, Tollef O., Bode, Iowa. Oil can. 1,459,871; June 26.
Balch, Samuel W., Montclair, N. J. Combined sidereal and mean solar timepiece. 1,459,710; June 26.
Ballantine, William B., London, England. Workable metal article. 1,460,049; June 26.
Banks, Alfonso A., New York, N. Y. Flypaper. 1,459,711; June 26.
Banowetz, Mathias B., Charlotte, Iowa. Bearing holder. 1,460,011; June 26.
Barany, Edmund R., Brooklyn, N. Y., assignor to Franco Electric Corporation. Flash light. 1,460,149; June 26.
Barany, Edmund R., Brooklyn, N. Y., assignor to Franco Electric Corporation. Flash-light-battery thrust cap. 1,460,150; June 26.
Barlow, Lester P., New Haven, Conn. Radiator device for gas engines. 1,460,360; June 26.
Barr and Stroud, Limited. (See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Mechanism for producing motions representing a function of two independent variables in calculating apparatus. 1,460,221; June 26.
Barr, Harry R., Philadelphia, assignor of one-third to C. B. Zacharias and one-third to W. E. Byers, Chambersburg, Pa. Vanity case. 1,460,192; June 26.
Barrett, Glenn J., Grand Rapids, Mich., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Combined typewriting and adding machine. 1,459,814; June 26.
Bartley, Victor, and J. B. Worthington, Oklahoma, Okla. Grinding and boring machine. 1,460,342; June 26.
Bates, Thomas O., Liverpool, England. Machinery for making wafer biscuits, cup wafers, and similar articles from liquid. 1,460,307; June 26.
Batty, Dudley E. (See Edwards, C. K., and Batty.)
Bauret, René, assignor to La Société dite: Usines Metallurgiques de la Basse-Loire, Paris, France. Production of basic steel. 1,459,712; June 26.
Beam, Frank E., assignor to The Automat Molding and Folding Company, Toledo, Ohio. Carton. 1,460,124; June 26.
Beauchamp, James K., Kansas City, Mo. Oil burner. 1,459,969; June 26.
Bechtold, William S., Newark, N. J. Mirror, brush, or similar article. Des. 62,562; June 26.
Beggs, Leslie W., Wilmington, Del. Garbage destroyer. 1,459,713; June 26.
Behringer, Grover F., assignor to The American Steel Package Company, Defiance, Ohio. Bung for metallic receptacles. 1,459,903; June 26.
Bélanger, Angus, and F. P. Riches, Montreal, Quebec, Canada. Calipers. 1,460,275; June 26.
Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Lubricating system. 1,459,815; June 26.
Belding, Warren S., Philipsburg, Pa. Telescope rifle sight. 1,459,944; June 26.
Belk, Charles R., Pittsburgh, Pa. Hinge. 1,459,872; June 26.
Bemis, William J., Schenectady, N. Y. Hook for crane sling chains. 1,459,816; June 26.
Benjamin, Bert R., Oak Park, assignor to International Harvester Company, Chicago, Ill. Machine key. 1,460,222; June 26.
Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
Bentley, Frank T., Platteville, Wis. Strainer. 1,460,308; June 26.

Berend, Ludwig, Amoneburg, near Biebrich-on-the-Rhine, Germany. Preparing colloidal metals and metalloids and compounds of same. 1,460,012; June 26.
Bethlehem Steel Products Company. (See Hildebrand, Henry Y., assignor.)
Bethlehem Steel Company. (See Madden, James P., assignor.)
Beyland, Sidney A., Long Meadow, assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. Re15,636; June 26.
Bierbrauer, Paul, and I. D. Peters, Wausau, Wis. Headlight dimmer. 1,460,309; June 26.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Safety relief device. 1,459,817; June 26.
Bird, Benjiman M., G. C., and D. P., assignors of one-half to J. B. Bridgman, Maitland, Mo. Burial vault. 1,460,223; June 26.
Bird, David P. (See Bird, Benjiman M., G. C., and D. P.)
Bird, George C. (See Bird, Benjiman M., G. C., and D. P.)
Bishop, Joseph T., assignor of one-half to J. A. Pecord, Toledo, Ohio. Vessel locating and recovering means. 1,459,714; June 26.
Blackburn, Allen H., Hayward, Calif. Saw gauge. 1,459,873; June 26.
Blair, Jean W., New York, N. Y. Pipe-repair clamp. 1,460,224; June 26.
Bland, J. C. W. (See Baird, M. B., and Walls, assignors.)
Blankenship, Tony, assignor of one-half to J. J. Davis, Kincaid, Ill. Nut lock. 1,459,818; June 26.
Blau, Ernst, Ratibor, Germany. Curve-forming rest for machine tools. 1,459,874; June 26.
Blaw-Knox Company. (See McArthur, Charles D., assignor.)
Bliss, Elsie S., Brookline, Mass. Shade. 1,459,715; June 26.
Blitch, John B. S., Beach, Ga. Device for securing mailable matter. 1,459,716; June 26.
Blomstran, William G., Menominee, Mich. Universal vise and vise jaw. 1,459,717; June 26.
Bloom, Edward, Paterson, N. J. Loom. 1,460,050; June 26.
Bolek, John J. (See Ryzowicz, L., and Bolek.)
Bollheimer, Rhinehard, and Z. T. Wilkens, Fort Loramie, Ohio. Wheeled grader. 1,460,225; June 26.
Bonhôte, Gerald. (See de Montmollin, G., Spieler, and Bonhôte.)
Boniger, Emil C., Davenport, Iowa. Mold for concrete blocks. 1,459,945; June 26.
Bonner-Charter Motor Company. (See Bonner, Clarence E., assignor.)
Bonner, Clarence E., New York, N. Y., assignor to Bonner-Charter Motor Company, Chicago, Ill. Lubricating system. 1,459,819; June 26.
Bostedo, Louis G., Chicago, Ill. Propulsion device. 1,460,051; June 26.
Bott, George R., New Rochelle, assignor to Norma Company of America, Long Island City, N. Y. Cage for antifriction bearings. 1,459,718; June 26.
Bouldin, Clarence R., McKenzie, Tenn. Plow. 1,460,013; June 26.
Bowman, Oliver S., Colorado Springs, Colo. Triune heat equipment for the home. 1,459,762; June 26.
Bracht, Carl F., Twin Brooks, S. Dak. Brood-sow muzzle. 1,459,904; June 26.
Bradley, Paul L., Los Angeles, Calif. Lens mounting. 1,460,334; June 26.
Brett Manufacturing Company. (See Loomis, Evarts G., assignor.)
Bridgman, J. B. (See Bird, Benjiman M., G. C., and D. P., assignors.)
Brigham, Arthur A., Boston, Mass. Thread-splicing machine. 1,459,875; June 26.
Brock, Edward J., St. Louis, Mo. Water purifier. 1,459,820; June 26.
Brown Instrument Company. (See Brown, Richard P., assignor.)
Brown, John W., and J. N. Fitzsimmons, Newark, Ohio. Cord holder. 1,459,763; June 26.
Brown, Richard P., assignor to Brown Instrument Company, Philadelphia, Pa. Control apparatus. 1,459,821; June 26.
Buck, Edward, Middleton Junction, England. Apparatus for pressing cop and like tubes upon spindles. 1,460,310; June 26.
Bullard, F. B. (See Hancock, Jesse E., assignor.)
Burrows, Charles W., assignor of one-fourth to R. J. Wig, Washington, D. C. Method of and apparatus for testing magnetizable objects. 1,459,970; June 26.
Burton, Crawford, et al. (See Williams, Joseph G., assignor.)
Burton, Roscoe C., Albany, N. Y. Changeable sign. 1,460,311; June 26.
Byerlein, Arthur A., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Drawing press. 1,459,905; June 26.
Byers, Wayne E., et al. (See Barr Harry R., assignor.)
Camarata, Vincent, J. Codrick, and R. P. Danley, Philadelphia, Pa. Vacuum cleaner. 1,459,946; June 26.
Campbell, Charles E., Woodhaven, N. Y. Wrapping machine. 1,459,719; June 26.
Cappellari, Alfonso, assignor of one-half to L. Donzelli, Bologna, Italy. Lock for vehicles. 1,460,015; June 26.
Carbonit Aktiengesellschaft. (See Pape, Max C. A. H., assignor.)
Carleton, Walter E., Brooklyn, N. Y. Film-patching machine. 1,459,822; June 26.
Carnal, William D., Akron, Ohio, assignor to Western Tire Company, Omaha, Nebr. Tire tread. Des. 62,563; June 26.
Caron, Fred, Detroit, Mich. Automatic weather strip. 1,460,312; June 26.
Carr, Robert L., et al. (See Smith, Thomas C., assignor.)
Carter, Carnie B., Pittsburgh, Pa., and A. E. Coxe, Chicago, Ill., assignors, by mesne assignments, to S. Karpen & Bros. Producing esters. 1,459,971; June 26.
Carter, William, Company, The. (See Redmond, Harriet L., assignor.)
Carver, George W., Orange, N. J., assignor of one-half to H. G. Stripe, New York, N. Y. Package handle. 1,460,354; June 26.
Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,460,151; June 26.
Casner, Thaddeus S., Plainfield, N. J., assignor, by mesne assignments, to G. Bawak, New York, N. Y. Alarm-controlling mechanism for clocks. 1,459,876; June 26.
Cast Steel Locomotive Ash Pan Company. (See Sheehan, William M., assignor.)
Clark, George W., assignor to Westfield Manufacturing Company, Westfield, Mass. Cycle. 1,460,052; June 26.
Clauson, Ferdinand C., Des Moines, and G. G. Kibbee, Forest City, Iowa. Combined bed and luggage carrier. 1,459,972; June 26.
Cleghorn, Charles A., Woburn Sands, England. Balloon fabric and making same. 1,460,053; June 26.
Condy, Frederick A., Long Beach, Calif. Table. Des. 62,564; June 26.
Codding, Chester C., assignor of one-half to G. T. Hunter, Detroit, Mich. Drilling device. 1,459,823; June 26.
Codrick, John. (See Camarata, V., Codrick, and Danley.)
Cole, Henry A., Weston-super-Mare, England. Apparatus for drying and polishing glasses and analogous articles. 1,460,092; June 26.
Coleman, George B., San Francisco, Calif., assignor to Majik Electric Appliance Company. Household mixer and beater. 1,460,125; June 26.
Colgan, Edward J., Kansas City, Mo. Battery shock absorber. 1,459,973; June 26.
Collis, Oliver D., Clinton, Iowa. Feeding hopper. 1,460,226; June 26.
Conlon Electric Washer Company. (See Anderson, C. F., and Knapp, assignors.)
Conradson, Conrad M., Madison, Wis., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Actuating means for machine platens. 1,459,720; June 26.
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
Consortium für Elektrochemische Industrie, G. m. b. H. (See Mugdan, M., and Herrmann, assignors.)
Continental Scale Works. (See Weber, Mathias J., assignor.)
Conway, Henry D., Detroit, Mich. Floor and ceiling construction. 1,460,014; June 26.
Cook, Herbert D., Terre Haute, Ind., Auto attachment. 1,460,193; June 26.
Cook, Sheldon E. (See Elliott, W. M., and Cook.)
Cossairt, James E., Platte Center, Nebr. Car-door clamp. 1,459,764; June 26.
Costovici, Nicolas B., Lausanne, Switzerland, assignor to American Nicovici Drawing Instruments Corporation, New York, N. Y. Device for drawing circles. 1,460,093; June 26.
Courtier, Jules and P., Paris, France; said P. Courtier assignor to said Jules Courtier. Spark regulator for restoring normal ignition to fouled spark plugs. 1,460,227; June 26.
Courtier, Pierre. (See Courtier, Jules and P.)
Cox, William G., Cleveland, Ohio. Fender. 1,460,343; June 26.
Coxe, Albert E. (See Carter, C. B., and Coxe.)
Cramp, William, & Sons Ship & Engine Building Company, The. (See Larner, Chester W., assignor.)
Critz, Frank A., jr., West Point, Miss. Roller bearing. 1,459,974; June 26.
Cronemeyer, Henry C., Beaver, Pa. Cooling and fragmenting apparatus and method. 1,459,947; June 26.
Cumpston, Frederick B., Blooming, Tex. Gin rib. 1,460,228; June 26.
Cunneen, Peter, New Rochelle, N. Y. Tumbler washer. 1,460,094; June 26.
Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Cigar lighter. 1,460,095; June 26.
Cuno Engineering Corporation, The. (See Cuno, Charles H., assignor.)
D'Adrian, Alexander L. D., et al. (See Stenhouse, Thomas, assignor.)
Dahl, Thure E., New York, N. Y. Lighting fixture. Des. 62,565; June 26.

Daniel, Lewis, Newport, Ky., assignor to C. J. Rennekamp, Cincinnati, Ohio. Capped nail and tack. 1,459,877; June 26.
Danley, Raymond P. (See Camarata, V., Codrick, and Danley.)
Davis, Everett, Elkland, Mo. Mail-box support. 1,460,054; June 26.
Davis & Furber Machine Company. (See Thiel, Charles P. R., assignor.)
Davis, Harry B., Houston, Pa. Automobile washer. 1,460,096; June 26.
Davis, John W., Dallas, Tex. Windshield visor. 1,460,313; June 26.
Davis, Joseph J. (See Blankenship, Tony, assignor.)
Day, Alfred C., Melbourne, Victoria, Australia. Mechanical movement. 1,460,194; June 26.
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Deal, Fred H., Bridgeton, N. J. Jack. 1,460,229; June 26.
Dean, Joseph J. (See Blankenship, Tony, assignor.)
Dean, John S., Edgewood Park, P., assignor to Westinghouse Electric & Manufacturing Co. Brush holder. 1,460,152; June 26.
Deck, Bert, Winfield, Kans. Separator for feeders. 1,460,314; June 26.
Delano, James K., Yonkers, N. Y. Gear drive. 1,459,948; June 26.
Delco-Light Company. (See Hunt, John H., assignor.)
Demers, Honore, Manchester, N. H. Compression-relieving mechanism for internal-combustion engines. 1,459,906; June 26.
De Monge, Louis, Paris, France. Propeller. 1,460,230; June 26.
De Montmollin, Guillaume, J. Spieler, and G. Bonhôte, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs of the triarylmethane series and making same. 1,460,315; June 26.
De Thal, Christian, Paris, France. Apparatus for the production of steel. 1,460,231; June 26.
Detroit Lubricator Company. (See Wangenheim, Adolph V., assignor.)
Deutsche Werke Aktiengesellschaft. (See Rehfeld, Ernst, assignor.)
De Vries, Ralph P. (See Armstrong, P. A. E., and De Vries.)
Dickinson, Roger E., et al. (See Smith, Thomas C., assignor.)
Dill, George C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Choke coil. 1,460,153; June 26.
Ditto, General M., Joliet, Ill. Concrete mold. 1,460,232; June 26.
Dobaschutz, Walter, St. Louis, Mo. Combined running-board mat and light. 1,460,316; June 26.
Doherty, Henry L. (See Laird, Wilbur G., assignor.)
Donnelly, John F., North Plainfield, N. J. Hair crimper. 1,460,126; June 26.
Donohue, John M., and E. S. Farrow, jr., assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether film and composition for making the same. 1,460,097; June 26.
Door Control Company. (See Dorl, Walter P., assignor.)
Dorl, Walter P., assignor to Door Control Company, Detroit, Mich. Checkstrap for doors. 1,459,949; June 26.
Double Drive Truck Company, The. (See Keck, Robert, assignor.)
Donzelli, Luigi. (See Cappellari, Alfonso, assignor.)
Dow Chemical Company, The. (See Putnam, M. E., and McCreadie, assignors.)
Dow, Fred T., Bangor, Me. Peat machine. 1,459,907; June 26.
Downie, John, Seattle, Wash. Gravity drop. 1,459,950; June 26.
Drakenfeld, Bernhard F., jr., et al. (See Stenhouse, Thomas, assignor.)
Drew, Clayton L., San Francisco, Calif. Light gauge. 1,460,055; June 26.
Drew, Elaine, Barre, Vt. Crib cover. 1,460,233; June 26.
Droishagen, Albert J., assignor to Milwaukee Pattern & Mfg. Co., Milwaukee, Wis. Rim-straightening device. 1,459,908; June 26.
Dudley, William W., Lancaster, Pa. Watch-movement frame. Des. 62,566; June 26.
Duke, Annual, Marion, Ind. Coating composition. 1,460,317; June 26.
Dürr, Ludwig, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Gas duct in airships. 1,459,878; June 26.
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Treating corresponding parts of pairs of shoes. 1,459,721; June 26.
Eagelston, Frank W., Berkeley, Calif. Process and means for switching railway cars. 1,460,325; June 26.
Eames, George M., Bridgeport, and J. C. Ringe, Stratford, Conn., assignors to The Singer Manufacturing Company. Machine for threading tape into articles. 1,460,195; June 26.
Eastman Kodak Company. (See Donohue, J. M., and Furrow, assignors.)
Eastman Kodak Company. (See Speidel, Charles F., assignor.)
Edwards, Charles K., and D. E. Batty, assignors to Associated Equipment Company, Limited, London, England. Automatic controlling means for the ignition timing in internal-combustion engines. 1,460,056; June 26.
Egan, James H., Ventnor, N. J. Register-operating mechanism. 1,459,879; June 26.
Eilers, Hio P., Los Angeles, Calif. Clutch. 1,460,234; June 26.
Eisele, Hieronymus, Omaha, Nebr. Dental bridge. 1,459,951; June 26.
Eisen, William C. J., Jersey City, N. J. Handle. 1,460,057; June 26.
Elliott, Wordsworth M., Crete, and S. E. Cook, Lincoln, Nebr. Interchangeable sign letters. 1,459,765; June 26.
Emery, Frank B., Petersburg, Va. Baggage receptacle. 1,460,016; June 26.
Emick, Charles C., Lancaster, Pa. Jar closure. 1,460,017; June 26.
Enright, Edward T., Jersey City, N. J., assignor to P. Lorillard Company, New York, N. Y. Bag-opening machine. 1,459,880; June 26.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Ernst, George, Newark, N. J. Safety gauge glass. 1,459,952; June 26.
Ersley, Rolf A., Copenhagen-Valby, Denmark. Automatic case lift. 1,459,722; June 26.
Eskell, Douglas V., New York, N. Y. Means for supporting and tensioning tennis nets and the like. 1,459,723; June 26.
Essex Specialty Co. (See Gehrig, William F., assignor.)
Etablissements de Ventilation Kestner & Neu. (See Kestner, Paul, assignor.)
Evershed, Herbert B. A., Guildford, England. Duplicating means. 1,460,058; June 26.
Faivre, Pierre, Le Locle, Switzerland. Spring wheel. 1,460,318; June 26.
Farley, Jesse K., jr., Kenilworth, Ill. Box for candy or the like. 1,460,127; June 26.
Farm Specialty Mfg. Co. (See Kaiser, Henry, assignor.)
Farrow, Edward S., jr. (See Donohue, J. M., and Farrow.)
Federal Telegraph Company. (See McCaa, David G., assignor.)
Feldman, Harold B., assignor to Arden Mills, Inc., New York, N. Y. Textile fabric. Des. 62,567; June 26.
Fesenmaier, Hugo P., Morton, Minn. Intake manifold for internal-combustion engines. 1,459,724; June 26.
Fifer, Harvey, Deer Lodge, Mont. Rim constricting and expanding device. 1,460,319; June 26.
Fine, Bernard M., Deptford Township, Gloucester County, assignor to Samuel M. Langston Company, Camden, N. J. Sheet-stacking mechanism. 1,460,059; June 26.
Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
Fischer, Albert T. (See Horr, John V., assignor.)
Fischer, Fred V., Woodbine, Iowa. Chain tightener. 1,460,235; June 26.
Fitzsimmons, James N. (See Brown, J. W., and Fitzsimmons.)
Fleming-Williams, Clifford R., Lake Windermere, England. Nozzle for the delivery of water or other liquid under pressure. 1,459,975; June 26.
Ford, Ralph L., Chicago, Ill., assignor to International Harvester Company. Three-row planter. 1,460,236; June 26.
Ford, William H. D., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,459,824; June 26.
Four Wheel Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)
Fowler, Gordon F., Oak Park, Ill., assignor to Sears, Roebuck and Company. Device for adjusting bowls and bowl spindles on centrifugal separators. 1,459,909; June 26.
Fox, Catherine A. (See Marsh, Hugh M., assignor.)
France, Antoine, Liege, Belgium. Mineral-washing plant. 1,460,196; June 26.
Franco Electric Corporation. (See Barany, Edmund R., assignor.)
Fraser, William F., Port Robinson, Ontario, Canada. Washing machine. 1,459,881; June 26.
Frazier, James W., and F. E. Hansen, Cleveland, Ohio. Pipe coupling. 1,460,154; June 26.
Freeman, Chris, Blaine, Wash. Rainproof garment. 1,460,237; June 26.
Frehafer, Philip W., Schuylkill Haven, Pa. Unbreakable nursing bottle. 1,459,725; June 26.
Freise, Albert M., San Francisco, Calif. Osteopathic table. 1,459,953; June 26.
Frey, Theodore, Guide Rock, Nebr. Lifter. 1,460,320; June 26.
Freyn, Brassert & Company. (See Ives, Edward L., assignor.)
Frost, Julius H., New York, N. Y. Automobile lock. 1,460,238; June 26.
Gangler, Paul, Esslingen, Germany. Device for folding paper bags. 1,459,825; June 26.
Garvin Machine Company, The. (See McClellan, Edward J., assignor.)
Gehrig, William F., Newark, N. J., assignor to Essex Specialty Co., Inc., Berkeley Heights, N. J. Slider for tuning coils. 1,460,239; June 26.

General Electric Company. See Arnold, Lyman, assignor.)
General Electric Company. (See Gosling, Joseph W., assignor.)
General Electric Company. (See Jones, B. W., and Gooch, assignors.)
General Electric Company. (See Porter, Willard E., assignor.)
General Electric Company. (See Pressey, Wilbur A., assignor.)
General Electric Company. See Roosevelt, Gracie H., assignor.)
General Electric Company. See Thompson, Louis W., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Twogood, Ernest N., assignor.)
George, Ayoob, Fond du Lac, Wis. Apparatus for building walls. 1,460,197; June 26.
Gerth, Ruth L., Minneapolis, Minn., assignor to Alfred Vester Sons, Inc., Providence, R. I. Spindle for lighting fixtures. Des. 62,568; June 26.
Gerth, Ruth L., Minneapolis, Minn., assignor to Alfred Vester Sons, Inc., Providence, R. I. Spindle for lighting fixtures. Des. 62,569; June 26.
Getz Power Washer Co. (See Litwilier, T. and Leader, assignors.)
Gibbs, James D., Louisville, Ky. Casing elevator. 1,460,018; June 26.
Glavin, Bernard L., Los Angeles, Calif. Curtain hanger. 1,460,335; June 26.
Goertz, August, & Co. (See Goertz, Frederick, assignor.)
Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co. Combination bag frame and vanity or powder box. 1,460,240; June 26.
Goldberger, Maurice. (See Nicholas, R. L., and Goldberger.)
Gooch, Ernest C. (See Jones, B. W., and Gooch.)
Goodheim, Albert, West Hoboken, N. J. Apparatus for automatically starting engines of motor vehicles. 1,459,726; June 26.
Goodin, Edward L., Copeland, assignor of one-half to G. B. M. Will, Crabtree, Ark. Aeroplane. 1,459,882; June 26.
Goodin, Edward L., Copeland, assignor of one-third to G. B. M. Will, Crabtree, Ark. Aeroplane. 1,459,883; June 26.
Goodin, Edward L., Copeland, assignor of one-third to G. B. M. Will, Crabtree, Ark. Launching device for aeroplanes. 1,459,884; June 26.
Goodspeed Machine Company. (See Witt, John J., assignor.)
Gore, Alfred C. and C. L., San Antonio, Tex. Tortilla press. 1,459,976; June 26.
Gore, Charles L. (See Gore, Alfred C. and C. L.)
Gosch, Hans H., Randall, Minn. Road drag. 1,460,321; June 26.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Lamp-standard. Des. 62,570; June 26.
Gosso, Alton E., assignor to The Gosso Company, Chicago, Ill. Berth. 1,459,826; June 26.
Gosso Company, The. (See Gosso, Alton E., assignor.)
Grapho-Metal Packing Company. (See Ostrander, James, assignor.)
Gravely, Julian S., Wytheville, Va., assignor to Winchester Repeating Arms Co., New Haven, Conn. Removing rust from metal articles. 1,459,910; June 26.
Gray, Alanson M., Elizabeth, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Filter press. 1,459,911; June 26.
Greenpoint Metallic Bed Company. (See Lies, William, assignor.)
Gresley, Herbert N., Doncaster, assignor to The Leeds Forge Company Limited, Leeds, England. Railway and tramway vehicle. 1,459,971; June 26.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electrical fixture. 1,460,060; June 26.
Gunn, Frederick M. (See Guyette, F. B., and Gunn.)
Guyette, Fred B., and F. M. Gunn, Guild, N. H. Bobbin antisplitting device. 1,459,727; June 26.
Haberman, Zeno C., Watertown, S. Dak. Washing machine. 1,459,728; June 26.
Hadaway, William S., jr., New Rochelle, N. Y. Electric heater. 1,459,729; June 26.
Hadley, Cecil A., Bradford, England, assignor to The Rose Street Foundry and Engineering Company, Limited, Inverness, Scotland. Welding. 1,459,885; June 26.
Hallauer, George A., Grover, S. Dak. Gasoline filter for motor-driven vehicles. 1,460,241; June 26.
Hallenbeck, George E., assignor to Baker Brothers, Toledo, Ohio. Clutch-control mechanism. 1,460,155; June 26.
Hamilton, Gavin S., Motherwell, and T. Thomson, Holytown, Scotland. Axle mill. 1,460,061; June 26.
Hammond, Karl R., Springfield, Mass. Computing machine. 1,459,886; June 26.
Hancock, Jesse E., assignor of five per cent to F. B. Bullard, Dupont, Ga. Shaking and dumping grate. 1,460,242; June 26.
Hancock, John E., Charleston, S. C. Support for vehicles. 1,459,954; June 26.
Handschug, Earl C., St. Louis, Mo. Patch for tires. 1,459,887; June 26.
Hanker, Frederic C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic substation. 1,460,156; June 26.
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Fred E. (See Frazier, J. W., and Hansen.)
Hansen, Oswald H., Port Washington, Wis., assignor to Hansen Canning Machinery Corporation. Can-filling machine. 1,460,198; June 26.
Harmon, Willie T., Sangerville, Me. Animal trap 1,460,199; June 26.
Harris, Frank C., Chicago, Ill. Operating mechanism for registers. 1,459,730; June 26.
Harshberger, Norman P., Chicago, Ill. Shingle. 1,459,827; June 26.
Hart, Albert P., Santa Ana, Calif. Paper-feeding mechanism for printing presses. 1,460,336; June 26.
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hartley, Calvin G., Roanoke, Ind., assignor to Knox Engineering and Manufacturing Company. Steering attachment for tractors. 1,459,828; June 26.
Hartley, Frank P., Bangor, Me. Automatic alarm. 1,460,019; June 26.
Hartung, Theodore A., Austin, Tex. Gravel dump. 1,459,766; June 26.
Harvey, Gilbert L., Philadelphia, Pa. Swab stopper. 1,460,243; June 26.
Hawley, Joel E., assignor of one-half to W. J. Riley, Kansas City, Mo. Mailing receptacle. 1,460,322; June 26.
Heath, Merton C., Terre Haute, Ind. Mechanism for handling bottles, etc. 1,460,020; June 26.
Heinemann, Arthur, Berlin-Tempelhof, Germany. Manufacture of formaldehyde. 1,460,244; June 26.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,460,157; June 26.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush holder. 1,460,158; June 26.
Henderson, Henry, Halstad, Minn. Frame for gathering machines. 1,459,731; June 26.
Hepler, Walter, et al. (See Reed, Warren B., assignor.)
Herman Nelson Corporation, The. (See Otis, Gerald E., assignor.)
Herrmann, Willy. (See Mugdan, M., and Herrmann.)
Hertz, Felix. (See Heyman, Moses D., assignor.)
Heyman, Moses D., Ozone Park, assignor to F. Hertz, New York, N. Y. Process and tool for making leather buttons. 1,459,888; June 26.
Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
Hildebrand, Henry Y., Johnstown, Pa., assignor, by mesne assignments, to Bethlehem Steel Products Company. Disk-rolling machine. 1,459,767; June 26.
Hildebrand, John T., Ritz, Ark. Stovepipe. 1,460,021; June 26.
Hill, Earl V., Chicago, Ill. Hydrothermostatic system. 1,460,128; June 26.
Himmel, M. L., & Son. (See Woltz, Albert M., assignor.)
Hinchman, Alva K., assignor of one-half to R. M. Adams, Philadelphia, Pa. Air and dust cap for pneumatic tires. 1,460,355; June 26.
Hine, Edward B., Longmeadow, Mass. Strip feeding and punching apparatus. 1,459,890; June 26.
Hoag, Glen B., Fullerton, Calif. Concrete-wall form. 1,459,889; June 26.
Hodges, Wayne S., Shelby, Ohio. Oven charging and unloading apparatus. 1,460,323; June 26.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined hot plate and laundry stove. 1,460,129; June 26.
Hofmann, George W., Chicago, Ill. Liquid-fuel burner. 1,460,130; June 26.
Holmes, Nellie I., administratrix. (See Holmes, Roy B.)
Holmes, Roy B., deceased, Los Angeles, Calif.; N. I. Holmes, administratrix, assignor, by mesne assignments, to A. W. Saline. Flexible coupling. 1,460,337; June 26.
Holmes, Roy B., deceased, Los Angeles, Calif.; N. I. Holmes, administratrix, assignor, by mesne assignments, to A. W. Saline. Flexible joint. 1,460,338; June 26.
Holy, George H. F., Pittsburgh, Pa., assignor to Western Electric & Manufacturing Company. Flexible gear. 1,460,131; June 26.
Hood, Noah J., Vance, Ala. Signal means. 1,460,324; June 26.
Hoover Company, The. (See Hoover, Howard E., assignor.)
Hoover Company, The. (See Owen, Ernest V., assignor.)
Hoover, Charles F., Venice, Ill., and O. L. Thomason, St. Louis, Mo.; said Thomason assignor to said Hoover. Dirigible headlight for vehicles. 1,459,891; June 26.
Hoover, Howard E., Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,460,245; June 26.
Horr, John V., assignor to A. T. Fischer, Cleveland, Ohio. Display carton. 1,460,132; June 26.
Horstmann, Albert, assignor to Horstmann Gear Co. Limited, Bath, England. Gas controller and the like. 1,460,339; June 26.

Horstmann Gear Co. Limited. (See Horstmann, Albert, assignor.)
Houser, William C., Casey, Ill. Portable knockdown shelter. 1,460,098; June 26.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Reenforced paper strip. 1,460,356; June 26.
Howe Rubber Corporation. (See Tenney, John, jr., assignor.)
Hubbell, Harvey, Bridgeport, Conn. Locking lamp. 1,460,246; June 26.
Hughes, Gerald E., sr., Kansas City, Mo. Treating oils. 1,459,732; June 26.
Hughes, Gerald E., sr., Kansas City, Mo. Drier or filler for paints and making the same. 1,459,733; June 26.
Hughes, James G., Cincinnati, Ohio. Pneumatic spring. 1,459,892; June 26.
Hunt, John H., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Ignition system. 1,459,893; June 26.
Hunter, George T. (See Codding, Chester C., assignor.)
Hurd, Norman B., assignor to American Hardware Corporation, New Britain, Conn. Lock and latch. 1,460,133; June 26.
Huther Bros. Saw Mfg. Co. (See Aldridge, Harry G., assignor.)
Huther Bros. Saw Manufacturing Company. (See Stauder, Emanuel, assignor.)
Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Waterproof electric heater and its manufacture. 1,459,829; June 26.
Ianieri, Giovanni, Philadelphia, Pa. Drying machine. 1,459,912; June 26.
Immel, Elmond C., Cisco, assignor of one-half to E. T. Murray, Eastland, Tex. Casing spear. 1,460,099; June 26.
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Ford, Ralph L., assignor.)
International Harvester Company. (See Smith, William H. F., assignor.)
International Silver Company. (See Kintz, Alfred G., assignor.)
Iowa Can Company. (See Loufek, Joseph, assignor.)
Irwin, George H., Chicago, Ill., assignor to Utilities Development Corporation, Chicago, Ill. Reversible differential gearing for vehicles. 1,459,894; June 26.
Isoln, Louis J., assignor to P. Pastene & Co., Inc., Boston, Mass. Bottle. Des. 62,571; June 26.
Ives, Edward L., assignor to Freyn, Brassert & Company, Chicago, Ill. Blast-furnace stock-line protection. 1,459,895; June 26.
Jackson, Frederick J., Auckland, New Zealand. Anchor. 1,459,768; June 26.
Jacobs, Oliver B., East Orange, N. J., assignor to American Telephone and Telegraph Company. Repeater circuits. 1,459,769; June 26.
Jennings, Irving C., assignor to Nash Engineering Company, South Norwalk, Conn. Wet vacuum pumping apparatus. Re15,637; June 26.
Jessop, Francis W., assignor to The Ohio Electric & Controller Company, Cleveland, Ohio. Lifting magnet. 1,459,830; June 26.
Jewart, John F., Blasdell, N. Y. Pincushion. 1,460,326; June 26.
Johlin, Jacob M., Syracuse, assignor to Semet-Solvay Company, Solvay, N. Y. Device for determining the specific gravity of liquids. 1,460,134; June 26.
John, William N., Milwaukee, Wis. Countersink gauge. 1,459,896; June 26.
Johnson Bros. Engineering Corporation. (See Johnson, Louis J., assignor.)
Johnson, Elmer, Washington, D. C., dedicated, by mesne assignments, to the People of the United States. Powder sprayer. 1,459,955; June 26.
Johnson, Francis E., jr., Orange, N. J., assignor to The M. W. Kellogg Company. Digester and strainer therefor. 1,459,913; June 26.
Johnson, John G., Gordon, Pa. Tire. 1,460,247; June 26.
Johnson, Louis J., Mishawaka, assignor to Johnson Bros. Engineering Corporation, South Bend, Ind. Tiller for outboard motors. 1,459,734; June 26.
Jones, Alva L., Asbury Park, N. J., assignor to American Telephone and Telegraph Company. System for testing line balance. 1,459,770; June 26.
Jones, Benjamin W., Schenectady, N. Y., and E. C. Gooch, Estes Park, Colo., assignors to General Electric Company. Motor-control system. 1,460,062; June 26.
Jones, Carl G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Detachable transformer radiator. 1,460,135; June 26.
Jones, Charley L., Altus, Okla. Toothbrush-holding device. 1,459,831; June 26.
Jones, Martin A., R. Krollage, and E. C. Yeager, McGregor, Tex. Fuel-oil separator and vaporizer. 1,460,063; June 26.
Kager Automobile Radiator Holder Company. (See Kager, Jasper W., assignor.)
Kager, Jasper W., Butte, Mont., assignor to Kager Automobile Radiator Holder Company. Radiator holder. 1,460,344; June 26.
Kahn Manufacturing Company. (See Pendergrass, Walter L., assignor.)
Kaiser, Henry, assignor to The Farm Specialty Mfgr. Co., New Holstein, Wis. Coupling apparatus for tractors. 1,460,347; June 26.
Karpeles Company. (See Richardson, Charles F., assignor.)
Karpen, S., & Bros. (See Carter, C. B., and Coxe, assignors.)
Karpiej, John, Hamtramck, Mich. Caster. 1,460,159; June 26.
Keck, Robert, assignor to The Double Drive Truck Company, Chicago, Ill. Axle construction. 1,460,064; June 26.
Keen, George T., et al. (See Williams, Joseph G., assignor.)
Kellogg, M. W., Company, The. (See Gray, Alanson M., assignor.)
Kellogg, M. W., The. (See Johnson, Francis E. jr., assignor.)
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,459,978; June 26.
Kennedy, Julian, Pittsburgh, Pa. Blast furnace. 1,460,065; June 26.
Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company. Method and machine for forming sheet tiling. 1,459,771; June 26.
Kerstein, Ernest A., Albany, N. Y. Meter construction. 1,460,327; June 26.
Kestner, Paul, Boulogne-sur-Seine, assignor to Etablissements de Ventilation Kestner & Neu, Centeleu-Lille, Nord, France. Vacuum apparatus for stripping cards. 1,459,832; June 26.
Ketchum, George E., Marceline, Mo. Grader. 1,460,022; June 26.
Keyser, Johann J., and J. J. Müller, Pratteln, near Basel, Switzerland. Spinning and twisting spindle. 1,460,328; June 26.
Kibbee, George G. (See Clauson, F. C., and Kibbee.)
King, James, Joplin, Mo. Wax spreader. 1,460,329; June 26.
Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Fork or similar article. Des. 62,572; June 26.
Kirsch, Charles W., Sturgis, Mich. Window-shade roller. 1,459,772; June 26.
Klein, Benjamin F. (See Pfleager, Roscoe C., assignor.)
Kleinschmidt Electric Co., The. (See Kleinschmidt, Edward E., assignor.)
Kleinschmidt, Edward E., Brooklyn, N. Y., assignor to The Kleinschmidt Electric Company. Transmitter for printing telegraphs. 1,460,357; June 26.
Knapp, James H., Edgeworth, assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Furnace. 1,460,066; June 26.
Knapp, Lester W. (See Anderson, Carl F., and Knapp.)
Knorr, John A., Bayonne, N. J. Roll-film holder. 1,459,914; June 26.
Knox Engineering and Manufacturing Company. (See Hartley, Calvin G., assignor.)
Koehmstedt, Valentine, Grafton, N. Dak. Insecticide sprayer. 1,459,915; June 26.
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Kohn, Frank O., Hudson, Iowa. Wind-propelled ship. 1,459,979; June 26.
Kokomo Brass Works. (See Stiles, Eugene A., assignor.)
Koonce, Clifton E., Coalinga, Calif. Steam turbine. 1,460,330; June 26.
Kopp, Nicholas, Pittsburgh, Pa. Shade for lighting fixtures. Des. 62,573; June 26.
Kopp, Nicholas, Pittsburgh, Pa. Shade for lighting fixtures. Des. 62,574; June 26.
Kostohryz, Joseph. (See Schorik, Frank, assignor.)
Kott, Michael, New York, N. Y. Cooking device. 1,460,248; June 26.
Kraft, Henry P., Ridgewood, N. J. Pressure gauge. 1,460,249; June 26.
Kraft, Henry P., Ridgewood, N. J. Valve cap. 1,460,250; June 26.
Kraft, Henry P., Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Closure for ice bags. 1,459,735; June 26.
Kramer, George W., Chicago, Ill. Waterproofing composition and making the same. 1,460,251; June 26.
Kramer, Samuel, Newark, N. J. Vehicle wheel. 1,459,736; June 26.
Krathwohl, Charles W., Chicago, Ill. Stepladder. 1,460,252; June 26.
Krebitz, Peter, Munich, Germany. Recovering the residual soap from carbonate-of-lime sludge. 1,459,773; June 26.
Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. 1,460,358; June 26.
Krollage, Rudolph. (See Jones, M. A., Krollage, and Yeager.)
Kuehner, Arthur T., Elkridge, Md. Pipe joint. 1,460,100; June 26.
La Bour, Harry E., Chicago, Ill. Pump. 1,460,160; June 26.

Lackland, Thomas C., Atlanta, Ga. Wheel. 1,460,253; June 26.
Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Coke-discharging apparatus. 1,460,067; June 26.
La Jeunesse, Clifford L., Milwaukee, Wis. Illuminating device. 1,460,136; June 26.
La Malta, Thomas L., Memphis, Tenn. Hollow-blast grate bar. 1,460,254; June 26.
Langston, Samuel M., Company. (See Fine, Bernard M., assignor.)
Larner, Chester W., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Plunger valve. 1,459,774; June 26.
Larner, Chester W., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Pressure-relief valve. 1,459,775; June 26.
Lasker, George, Chicago, Ill. Plate-punching machine. 1,459,776; June 26.
La Société dite: Usines Métallurgiques de la Basse-Loire. (See Bauret, René, assignor.)
La Valle, Louis J., Warren, Pa. Animal trap. 1,459,897; June 26.
La Veck, Louis, assignor to Simplex Paper Accessories Co., Inc., Brooklyn, N. Y. Counting apparatus. 1,460,101; June 26.
Laverence, John W., Fremont, Nebr. Automobile gate. 1,460,200; June 26.
Leach, Blanche, Reno, Nev. Stovepipe lock. 1,460,255; June 26.
Leader, John. (See Litwiller, T., and Leader.)
Leake, George, Mason City, Iowa. Transom lift. 1,460,023; June 26.
Ledewyn, Gustave. (See Wagemans, J. E., and Ledewyn.)
Leeds Forge Company, The. (See Gresley, Herbert N., assignor.)
Lefler, Hawley B., assignor of one-half to D. E. F. Russell, Grand Bayou, La. Polish-rod clamp. 1,460,256; June 26.
Lehr, Edwin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,460,161; June 26.
Leigh, Millard E., Burley, Idaho. Draft evener. 1,460,257; June 26.
Leiser, Richard, and R. Ziffer, Vienna, Austria. Process and apparatus for the chlorination of methane (CH_4). 1,459,777; June 26.
Lemere, Lou S. (See Long, W. M., and Lemere.)
Leon, L. J., Mfg. Co. (See Leon, Lewicki J., assignor.)
Leon, Lewicki J., assignor to L. J. Leon Mfg. Co., Chicago, Ill. Bird-cage catch. 1,460,102; June 26.
Leonold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Spiral tool. 1,460,201; June 26.
Lewis, Arthur J., Stratford, Conn. Camping outfit. 1,460,162; June 26.
Leytham, Thomas, assignor to Shur-On Optical Company, Inc., Rochester, N. Y. Temple for eyeglasses. 1,459,778; June 26.
Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)
Liberty Machine Tool Co., The. (See McCann, Alfred R., assignor.)
Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Loading device. 1,459,779; June 26.
Lichter, Adolph H., assignor to The Willys-Overland Company, Toledo, Ohio. Upholstering padding. 1,459,780; June 26.
Lies, William, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. End frame for a bedstead. Des. 62,575; June 26.
Light, Ralph A., and J. W. Price, jr., assignors to The United States Metallic Packing Company, Philadelphia, Pa. Track sander. 1,459,737; June 26.
Lindemann, A. J., & Hoverson Company. (See Lindemann, Walter C., assignor.)
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Oil stove. 1,460,258; June 26.
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Electric heating device. 1,460,259; June 26.
Lindgren, Frank O., Minneapolis, Minn. Knotting mechanism for tying sacks. 1,459,833; June 26.
Lindholm, Aaron S., Orange, Calif. Automatic stop for phonographs. 1,460,203; June 26.
Linfoot, Benjamin E., Philadelphia, Pa. Crate for bottle-cleaning machines. 1,460,068; June 26.
Litchfield, Homer H., Rockford, Ill. Drying frame. 1,460,260; June 26.
Litwiller, Thomas, and J. Leader, assignors to Getz Power Washer Co., Morton, Ill. Washing machine. 1,460,203; June 26.
Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. 1,459,781; June 26.
Long, Walter M., and L. S. Lemere, Seattle, Wash. Automobile name plate. Des. 62,576; June 26.
Loomis, Evarts G., Newark, N. J., assignor to Brett Manufacturing Company, Inc., New York, N. Y. Machine for making hair waves. 1,459,782; June 26.
Lopez, David C., Detroit, Mich. Combination square. 1,460,103; June 26.
Lorillard, P., Company, The. (See Enright, Edward T., assignor.)
Loufek, Joseph, assignor to Iowa Can Company, Keokuk, Iowa. Mailing tube. 1,459,783; June 26.
Loufek, Joseph, assignor to Iowa Can Company, Keokuk, Iowa. Powder-dispensing box. 1,459,784; June 26.
Loughead, Malcolm, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif. Braking apparatus. 1,460,163; June 26.
Loughead, Malcolm, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif. Hydraulic brake. 1,460,164; June 26.
Lovegrove, Thomas G., Philadelphia, Pa. Match box. 1,459,785; June 26.
Löwenstein, Karl Prinz zu, Berlin, Germany. Apparatus for the semicooking of coal, slate, or other bituminous substances. 1,460,024; June 26.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Dürr, Ludwig, assignor.)
Maclear, James R., assignor to F. R. Ashley, Denver, Colo. Awning-control means. 1,460,359; June 26.
Madden, James P., assignor to Bethlehem Steel Company, Bethlehem, Pa. Salt press. 1,460,026; June 26.
Maddock, Walter A. E., Hamilton, N. Dak. Air-release device. 1,460,027; June 26.
Madsen, Rudolph, Klamath Falls, Oreg. Washing machine. 1,459,835; June 26.
Maimin, Hyman, New York, N. Y. Motor drive for sewing machines. 1,460,070; June 26.
Majik Electric Appliance Company. (See Coleman, George B., assignor.)
Maley, Alfred W., West Bromwich, England. Brake for tramway and railway rolling stock. 1,459,788; June 26.
Malia, Martin A., Thompsonville, Conn. Lunch-room chair. Des. 62,577; June 26.
Malone, Ernest J., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Swing joint. 1,460,105; June 26.
Manning, Fred W., Brooklyn, N. Y. Filter. 1,459,836; June 26.
Marafi, Emilio A., Bridgeport, Conn. Collapsible tube holder and content ejector. 1,460,204; June 26.
Markwell Manufacturing Co. Inc. (See Obstfeld, Lou, assignor.)
Marsh, Hugh M., assignor to C. A. Fox, Chicago, Ill. Curtain-roller support. 1,459,789; June 26.
Martin, Harry S. (See Willett, A. H., and Martin.)
Martin, Lester B., Ford, Va. Manifold connection lock. 1,460,205; June 26.
Martin, Thomas W., Hibbing, Minn. Lawn trimmer. 1,460,261; June 26.
Masland, C. H., & Sons. (See Masland, Charles H., 2d, assignor.)
Masland, Charles H., 2d, Melrose, assignor to C. H. Masland & Sons, Inc., Philadelphia, Pa. Fabric-printing machine. 1,460,206; June 26.
Matthews, Edward, Denver, Colo. Shock-absorbing spring. 1,459,983; June 26.
Matthews, William H., Newburgh, N. Y. Bedspring support. 1,460,262; June 26.
Mattson, Julius, Chicago, Ill. Milling-machine cutter. 1,460,028; June 26.
Mattson, Julius, Chicago, Ill. Milling-machine cutter. 1,460,029; June 26.
Mattson, Julius, Chicago, Ill. Milling-machine cutter. 1,460,030; June 26.
Maxwell Paint Company. (See Remington, Joseph P., assignor.)
Mazza, Ben, Grand Junction, Colo. Electric switch. 1,459,956; June 26.
McArthur, Charles D., Pittsburgh, Pa., assignor to Blaw-Knox Company. Form for tunnels and culverts. 1,460,165; June 26.
McArthur, John, Detroit, Mich. Door lock. 1,460,166; June 26.
McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Conveying system. 1,459,916; June 26.
McBurney, Willard B., Atlanta, Ga. Stoking grate. 1,459,980; June 26.
McCan, David G., Lancaster, Pa., assignor of one-third to Federal Telegraph Company, San Francisco, Calif. Method of and apparatus for electrical communication. 1,459,786; June 26.
McCabe, Hugh, Lawrence, Mass. Flanging machine. 1,460,167; June 26.
McCann, Alfred R., assignor to The Liberty Machine Tool Co., Hamilton, Ohio. Dial. 1,459,917; June 26.
McClellan, Edward J., New York, N. Y., assignor to The Garvin Machine Company. Tapping machine. 1,459,981; June 26.
McClintock, Robert W., and D. McKinnon, Toronto, Ontario, Canada. Electrolytic rectifier. 1,460,104; June 26.
McCreadie, John. (See Putnam, M. E., and McCreadie.)
McFadden, Glenn E., Lakewood, Ohio. Canopy for lighting fixtures. Des. 62,578; June 26.
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Force feed for powdered fuel. 1,460,168; June 26.
McGaw, Sidney A., Fresno, Calif. Stepladder. 1,459,918; June 26.
McGee, Frank R., Steubenville, Ohio. Umbrella rack. 1,459,787; June 26.

McGill, Andrew M., Bethlehem, Pa. Construction and repair of railway cars. 1,460,069; June 26.
McGillicuddy, Edward F., Seattle, Wash. Vehicle signal. 1,459,919; June 26.
McIntire, James E., Weymouth, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting eyelets. 1,459,738; June 26.
McKee, Arthur G., Cleveland, Ohio. Method of and apparatus for cleaning gases. 1,459,982; June 26.
McKee, Charles E., Kansas City, assignor of one-half to M. Toner, Camden, Mo. Oil burner. 1,459,920; June 26.
McKinnon, Angus C., Maxton, N. C. Windshield protector. 1,459,834; June 26.
McKinnon, Donald. (See McClintock, R. W., and McKinnon.)
McLean, Charles D., assignor to Mechanical & Electrical Manufacturing Co., Incorporated, Berlin, N. H. Instantaneous heater. 1,460,025; June 26.
Mechanical & Electrical Manufacturing Co. Incorporated. (See McLean, Charles D., assignor.)
Mechanical Rubber Company, The. (See Kent, William J., assignor.)
Meng, Arthur, Cleveland, Ohio. Spectacles display holder. Des. 62,579; June 26.
Menges, Albert C., et al. (See Smith, Thomas C., assignor.)
Menzel, John B., Dayton, Ohio. Wrench. 1,459,739; June 26.
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Merriman, Arthur G., Columbus, Ohio. Motion-picture cabinet. 1,460,071; June 26.
Merritt, Fredrick B., Sacramento, Calif. Folding steering wheel. 1,459,957; June 26.
Mesny, Arthur B. L., Washington, D. C., and G. de J. Mesny, Norfolk, Va. Combined film supporter and hanger. 1,460,346; June 26.
Mesny, Gifford de J. (See Mesny, Arthur B. L. and G. de J.)
Meyercordt, Ernst, Locknitz, near Stettin, Germany. Mounting for slip rings of dynamo-electric machines. 1,460,031; June 26.
Miles, Maud M., Lombard, Ill. Appliance for displaying colors. 1,460,264; June 26.
Miller, Jannette, Eau Claire, Wis. Pin or emblem. Des. 62,580; June 26.
Miller, Thomas S., South Orange, N. J. Sheave wheel. 1,460,169; June 26.
Miller, William W. (See Sabbag, Litfallah G., assignor.)
Millers Falls Company. (See Parsons, William F., assignor.)
Mills, Andrew H., Warsaw, Ind. Music-leaf turner. 1,460,265; June 26.
Milwaukee Pattern & Mfg. Co. (See Drolshagen, Albert J., assignor.)
Mintz, Jack D., New York, N. Y. Storage battery. 1,460,072; June 26.
Mitchell, Benjamin A., Garfield, Utah. Vibrator for screening machines, etc. 1,459,841; June 26.
Mitchell, Benjamin A., Garfield, Utah. Vibrating screen. 1,459,844; June 26.
Mitchell, Benjamin A., Garfield, Utah. Screening machine and screen cloth therefor. 1,459,845; June 26.
Mitchell, Benjamin A., Garfield, Utah. Vibrating screen. 1,459,846; June 26.
Mitchell, Benjamin A., Garfield, Utah. Differential vibrator. 1,459,847; June 26.
Mitchell, Benjamin A., Garfield, Utah. Percussion drill and the like. 1,459,848; June 26.
Mitchell, Benjamin A., St. George, N. Y. Screening machine and screen cloth therefor. 1,459,842; June 26.
Mitchell, Benjamin A., St. George, N. Y. Vibrating screen. 1,459,843; June 26.
Mitchell, Benjamin A., Garfield, assignor of two-thirds to M. L. Mitchell, Magna, Utah. Vibrating screen. 1,459,837; June 26.
Mitchell, Benjamin A., Garfield, assignor of two-thirds to M. L. Mitchell, Magna, Utah. Vibrating screen. 1,459,838; June 26.
Mitchell, Benjamin A., Garfield, assignor of two-thirds to M. L. Mitchell, Magna, Utah. Vibrating screen. 1,459,840; June 26.
Mitchell, Benjamin A., St. George, N. Y., assignor of two-thirds to M. L. Mitchell, Magna, Utah. Vibrating screen. 1,459,839; June 26.
Mitchell, Charles F., Baltimore, Md. Bag or parcel tie. 1,460,207; June 26.
Mitchell, Minnie L. (See Mitchell, Benjamin A., assignor.)
Mitchell, Oliver, Brookline, Mass. Package for braid or the like. 1,459,849; June 26.
Mohn, John, Detroit, Mich. Beverage-dispensing apparatus. 1,460,209; June 26.
Mohn, John, Detroit, Mich. Pump. 1,460,208; June 26.
Monroe, John S., Memphis, Mo. Hand truck. 1,460,266; June 26.
Monzione, Marion A. (See Zilocki, Giordano, assignor.)
Moon Brothers Manufacturing Company. (See Snell, Samuel A., assignor.)
Moore, Benjamin S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Railway-motor mounting. 1,460,170; June 26.
Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration detector. 1,460,032; June 26.
Moore, Lewis S., Minneapolis, Minn. Match box. 1,459,850; June 26.
Moorhouse, Samuel, Leeds, England. Spinning, doubling, twisting, and like machine. 1,460,033; June 26.
Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Clutch. 1,459,851; June 26.
Mueck Auto Body Company, The. (See Mueck, Frank J., assignor.)
Mueck, Frank J., assignor to The Mueck Auto Body Company, St. Louis, Mo. Vehicle body. 1,459,740; June 26.
Mueller, Adolph. (See Wilkins, James M., assignor.)
Mugdan, Martin, and W. Herrmann, assignors to Consortium für Elektrochemische Industrie G. m. b. H., Nuremberg, Germany. Manufacture of ethyl acetate. 1,459,852; June 26.
Müller, Johann J. (See Keyser, J. J., and Müller.)
Mulvihill, Daniel C., Hannibal, Mo. Metal wheelbarrow. 1,459,898; June 26.
Murray, Edward T. (See Immel, Elmond C., assignor.)
Murray, Robert L., Bushey Heath, assignor to Telephone Manufacturing Company Limited, London, England. Telephone transmitter. 1,460,034; June 26.
Myers, Hubert A., Toledo, Ohio. Plating metals. 1,460,137; June 26.
Myers, Hubert A., Toledo, Ohio. Window-lifting device. 1,460,138; June 26.
Nagel, Theodore, Brooklyn, N. Y. Method of and apparatus for the hydrodynamic separation of particles. 1,459,921; June 26.
Nagel, Theodore, Brooklyn, N. Y. Method of and apparatus for the hydrodynamic separation of particles. 1,459,922; June 26.
Nagel, Theodore, Brooklyn, N. Y. Method of and apparatus for treating material with gas. 1,459,923; June 26.
Narrow Fabric Co., The. (See Walbrecker, Ernest, assignor.)
Nash Engineering Company. (See Jennings, Irving C., assignor.)
Nash, John M., Milwaukee, Wis. Machine for finishing flanged articles. 1,459,741; June 26.
National Indicator Company. (See Penso, Marius E., assignor.)
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. 1,459,853; June 26.
Neff, John, sr., West Hoboken, N. J. Airship. 1,459,742; June 26.
Nelson, Alfred C., Lakewood, assignor to The William B. Pollock Company, Youngstown, Ohio. Furnace-charging apparatus. 1,459,984; June 26.
Nelson, Alfred C., Lakewood, assignor to The William B. Pollock Company, Youngstown, Ohio. Ladle-tilting mechanism. 1,459,985; June 26.
Nelson, Christian B., Chicago, Ill. Book-cover gauge. 1,460,348; June 26.
Nelson, Hjalmer A., Detroit, Minn. Potato-sorting machine. 1,459,854; June 26.
Nelson, Lenar F., Racine, Wis. Grindstone. 1,460,171; June 26.
Nelson, Nels P., Brooklyn, N. Y. Portable loader. 1,460,172; June 26.
Nevius, Condict M., Hornell, N. Y. Coffee mill. 1,459,790; June 26.
Nevius, Condict M., Hornell, N. Y. Coffee roaster. 1,459,791; June 26.
Nicholas, Rollo L., assignor to W. Ratzenstein, Chicago, Ill. Bottle filling and capping machine or the like. 1,460,210; June 26.
Nicholas, Rollo L., and M. Goldberger, assignors to W. Ratzenstein, Chicago, Ill. Bottle-filling machine or the like. 1,460,211; June 26.
Nicholas, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Electric-furnace melting of manganese scrap. 1,460,106; June 26.
Nicholas, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Cast-steel railway-track member. 1,460,107; June 26.
Nielsen, Laurits A., Seattle, Wash. Concrete insert. 1,460,035; June 26.
Nikart, Joseph G., Virginia, Minn. Lunch kit. 1,460,108; June 26.
Nilant, Charles P. L., Haarlem, Netherlands. Drafting instrument. 1,459,792; June 26.
Nissen, Henry C. (See Ringe, J. C., and Nissen.)
Norma Company of America. (See Bott, George R., assignor.)
North Bro's M'f'g. Co. (See Leopold, George O., assignor.)
Oakes, Lucian R., Tipton, Ind. Electric incubator. 1,460,349; June 26.
Oakes, Lucian R., assignor to The Oakes Manufacturing Company, Tipton, Ind. Feed trough for chicks. 1,460,350; June 26.
Oakes Manufacturing Company, The. (See Oakes, Lucian R., assignor.)
Oberdorfer, Henry D., Champaign, Ill. Portable bleacher. 1,460,267; June 26.
Oberst, Frank, Glendale, N. Y., assignor to Sonora Phonograph Corporation. Tone arm. 1,459,743; June 26.

Obstfeld, Lou, assignor to Markwell Manufacturing Co., Inc., New York, N. Y. Cushion cap for stapling machines and the like. 1,459,924; June 26.
Oehrle Brothers Company. (See Oehrle, Franklin W., assignor.)
Oehrle, Franklin W., assignor to Oehrle Brothers Company, Philadelphia, Pa. Fringe. Des. 62,581; June 26.
Ohio Electric & Controller Company, The. (See Jessop, Francis W., assignor.)
Ohio Municipal Equipment Company, The. (See Bailly, Louis, assignor.)
Old Colony Trust Company, trustee. (See Toney, George W., assignor.)
Olden, Harry L., Cincinnati, Ohio. Sheet-metal roofing. 1,459,855; June 26.
Oldroyd, Cyrus S., Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn. Mining and quarrying machine. 1,460,073; June 26.
Oldroyd, Cyrus S., Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn. Motor-driven truck. 1,460,074; June 26.
Oldroyd, Cyrus S., Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn. Mining and quarrying machine. 1,460,075; June 26.
Oldroyd, Cyrus S., Cincinnati, Ohio, assignor to Oldroyd Manufacturing Company, Knoxville, Tenn. Mining and quarrying machine. 1,460,076; June 26.
Oldroyd, Cyrus S., Cincinnati, Ohio. Mining machine. 1,460,077; June 26.
Oldroyd Manufacturing Company. (See Oldroyd, Cyrus S., assignor.)
Olin, August, Alameda, assignor to Atlas Imperial Engine Company, Oakland, Calif. Fluid strainer. 1,459,925; June 26.
Olive, Paul, Hempstead, N. Y. Universal joint. 1,460,212; June 26.
Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Swivel-gear joint and housing. 1,459,958; June 26.
Orsi, Peter, Stockton, Calif. Tie holder. 1,459,926; June 26.
Ostrander, James, assignor to Grapho-Metal Packing Company, Indianapolis, Ind. Flexible packing and making it. 1,459,744; June 26.
Otis, Gerald E., assignor to The Herman Nelson Corporation, Moline, Ill. Fan. 1,459,927; June 26.
Otis, Spencer, and F. S. Wichman, Chicago, Ill. Temperature control for boiler-washout systems. 1,460,109; June 26.
Otte, Otho M., Tarentum, Pa. Spotlight bracket. 1,459,856; June 26.
Ottman, Frank, Utica, N. Y. Hoop for lifting crocks. 1,460,268; June 26.
Overlien, Ole P., Black River Falls, Wis. Garage-door-holder device. 1,459,899; June 26.
Owen, Ernest V., assignor to The Hoover Company, Chicago, Ill. Recovering catalyst from catalysis residue. 1,460,110; June 26.
Owens, John S. (See ver Mehr, J., and Owens.)
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Panikoff, William L., New Haven, Conn. Badge or insignia. 1,460,111; June 26.
Pape, Max C. A. H., Neumuehlen-Dietrichsdorf, near Kiel, Germany, assignor to the firm of Carbonit Aktiengesellschaft, Hamburg, Germany. Water bomb. 1,459,793; June 26.
Paper Products Machine Company. (See Howard, Charles H., assignor.)
Parker, Charles C., Baltimore, Md. Bottle cap. 1,460,269; June 26.
Parker, Charles S., Boston, Mass. Safety razor. 1,460,139; June 26.
Parker, Clarence L., Los Angeles, Calif. Variable-pitch propeller for airplanes. Re15,638; June 26.
Parolini, Cesare, and G. Perron, Paris, France. Silencer for internal-combustion engines. 1,459,797; June 26.
Parry, Samuel R. (See Morse, William F., assignor.)
Parsons, Harry N., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Ball bearing. 1,459,858; June 26.
Parsons, Olin D., West Englewood, N. J. Slide rule. 1,459,857; June 26.
Parsons, William J., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Screw driver. 1,460,036; June 26.
Pastene, P., & Co. (See Isola, Louis J., assignor.)
Patent Products Company. (See Schwimmer, Oscar, assignor.)
Patten, Francis H., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Voltage-regulator mechanism. 1,460,173; June 26.
Patty, James O., Chicago, Ill. Humidifier. 1,459,794; June 26.
Pavely, Arthur G., and C. F. O. E. Schmitt, Johannesburg, Transvaal, South Africa. Coiling strip material such as cinematograph film. 1,459,795; June 26.
Pecord, James A. (See Bishop, Joseph T., assignor.)
Peerless Corset Co. (See Rocke, Abraham, assignor.)
Pendergrass, Walter L., assignor to S. Kahn and L. Kahn, Mobile, Ala., doing business as Kahn Manufacturing Company. Union suit. 1,459,986; June 26.
Penney, Harold D., Pelham, C. E. Whiteman, Richmond Hill, N. Y., and G. F. Russ, Jersey City, N. J., assignors to Automatic Inserting Machine Corporation, New York, N. Y. Intermittent drive mechanism. 1,459,796; June 26.
Penso, Marius E., New York, assignor to National Indicator Company, Long Island City, N. Y. Electric cooking device. 1,460,140; June 26.
People of the United States, The. (See Johnson, Elmer, assignor.)
People of the United States, The. (See Sherman, J. M., and Shaw, assignors.)
Perron, Gustave. (See Parolini, C., and Perron.)
Peters, Irvin D. (See Bierbauer, P., and Peters.)
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. 1,459,745; June 26.
Pfanse, Charles F., St. Louis, Mo. Web-severing device. 1,459,746; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,582; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,583; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,584; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,585; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,586; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,587; June 26.
Pfleager, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. Des. 62,588; June 19..
Pharr, E. A., et al. (See Reed, Warren B., assignor.)
Pierson, Isaac, deceased, Wellesley, Mass.; P. H. Pierson, administrator. Rotatable connector. 1,460,037; June 26.
Pierson, Philip H., administrator. (See Pierson, Isaac.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Pollock, William B., Company, The. (See Nelson, Alfred C., assignor.)
Pool, Elmer C., New Castle, Pa. Deflector for plate-feeding mechanisms. 1,460,038; June 26.
Poritz, Frederick M., assignor to Star Chandelier Co. Inc., New York, N. Y. Chandelier. Des. 62,589; June 19.
Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Meter bearing. 1,459,987; June 26.
Powell, Winfred T., assignor to The Stromberg Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,459,860; June 26.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Mechanical switching system. 1,459,859; June 26.
Pressey, Wilbur A., Pittsfield, Mass., assignor to General Electric Company. Transformer installation. 1,459,988; June 26.
Price, Joseph W., jr., assignor to The United States Metallic Packing Company, Philadelphia, Pa. Piston-rod swab. 1,460,174; June 26.
Price, Joseph W., jr. (See Light, R. A., and Price.)
Prindle, Carlyle C., Douglaston, N. Y. Vanity box. 1,459,798; June 26.
Pucci, Giacomo, Westerly, R. I. Stop-motion mechanism for fly frames. 1,460,141; June 26.
Pullar, James, Hartford, Conn. Refuse-collecting wagon. 1,460,078; June 26.
Purchas, Frederick B., Hitchin, England. Fruit-grading machine. 1,460,270; June 26.
Purposed Mind Development Security Association of the World, The. (See McGahan, Frederick L., assignor.)
Putnam, Mark E., and J. McCreadie, assignors to The Dow Chemical Company, Midland, Mich. Making salicylates. 1,459,900; June 26.
Q R S Music Company, The. (See Smith, Irving M., assignor.)
Quarfoth, Gunnar, New Rochelle, N. Y. Camera. 1,460,112; June 26.
Rainaud H. E., Company, The. (See Rainaud, Henry E., assignor.)
Rainaud, Henry E., assignor to The H. E. Rainaud Company, Meriden, Conn. Shade for lighting fixture. Des. 62,590; June 26.
Ramige, William F., Rockwell City, Iowa. Trace carrier. 1,460,271; June 26.
Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Lower-stanchion-securing means. 1,459,928; June 26.
Ratzenstein, William. (See Nicholas, R. L., and Goldberger, assignors.)
Ratzenstein, William. (See Nicholas, Rollo L., assignor.)
Rawak, George. (See Casner, Thaddeus S., assignor.)
Rayder, Joseph A., Philadelphia, Pa. Torpedo head. 1,460,175; June 26.
Reardon, John J., Philadelphia, Pa. Combined brush and scraper. 1,459,861; June 26.
Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's garment. 1,459,747; June 26.
Reed, W. G., et al. (See Reed, Warren B., assignor.)

Reed, Warren B., Morgan City, La., assignor of one-fourth to J. R. Suman, Houston, Tex.; one-fourth to E. A. Pharr, one-eighth to W. G. Reed, and one-eighth to W. Hepler, Morgan City, La. Process of and apparatus for setting casing and screen in wells and cementing. 1,459,989; June 26.
Reed, Warren B., Morgan City, La. Setting casing and cementing the same. 1,459,990; June 26.
Reeves, Orwell C., Toledo, Ohio. Drying apparatus. 1,459,929; June 26.
Rehfeld, Ernst, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany. Pneumatic riveter. 1,460,272; June 26.
Rehfuss, Martin O., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa. Folding machine. 1,460,273; June 26.
Remington, Joseph P., assignor to Maxwell Paint Company, Philadelphia, Pa. Highway-sign paint protector. 1,460,351; June 26.
Remington Typewriter Company. (See Barrett, Glenn J., assignor.)
Rennekamp, Clarence J. (See Daniel, Lewis, assignor.)
Rhodes, Leigh R., Cleveland, Ohio. Pneumatic earth scraper. 1,459,748; June 26.
Rianda, Thomas A., Gonzales, Calif. Combined tire carrier and cover. 1,460,274; June 26.
Richardson, Charles F., Woonsocket, assignor to Karpeles Company, Providence, R. I. Sorting machine. 1,460,176; June 26.
Riches, Frederick P. (See Bélanger, A., and Riches.)
Riehle, Albert J., Cincinnati, Ohio. Tool rack. 1,459,930; June 26.
Riley, William J. (See Hawley, Joel E., assignor.)
Riley, William J., St. Louis, Mo. Casket. 1,459,749; June 26.
Ringe, John C., and H. C. Nissen, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Thread controller for sewing-machine take-ups. 1,460,177; June 26.
Ringe, John C. (See Eames, G. M., and Ringe.)
Robertson, John A., St. Joseph, Mo. Cable clamp. 1,460,276; June 26.
Robinson, Joseph V. New York, N. Y. Automatic train-pipe connector. Re15,639; June 26.
Rocke, Abraham, assignor to Peerless Corset Co., Inc., New York, N. Y. Garment. 1,460,277; June 26.
Roesch, Joseph B., Old Forge, Pa. Demountable rim. 1,460,278; June 26.
Roggi, Abdenago, Chicago, Ill. Lid-operating mechanism. 1,460,178; June 26.
Rooks, Luther E., Jackson, Tenn. Shipping container. 1,459,991; June 26.
Roosevelt, Gracie H., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,460,213; June 26.
Rosbach, Leonard J., Brooklyn, N. Y. Centering device. 1,460,279; June 26.
Rose, Bruce E., and G. Woolwine, Modesto, Calif. Scraper. 1,460,340; June 26.
Rose Street Foundry and Engineering Company Limited, The. (See Hadley, Cecil A., assignor.)
Ross, Benjamin, Brooklyn, N. Y. Heel cushion for boots and shoes. Des. 62,591; June 26.
Roth, Peter O., New York, N. Y. Boiler and heater. 1,460,280; June 26.
Rouprich, James W., Washington, D. C. Resilient wheel. 1,459,992; June 26.
Rouston, Grace D., administratrix. (See Rouston, William H.)
Rouston, William H., deceased, Detroit, Mich.; G. D. Rouston, administratrix. Centrifugal extractor. 1,460,142; June 26.
Roy, Wadsworth D., Brimingham, Mich. Combined rouge and powder puff. 1,459,931; June 26.
Russ, George F. (See Penney, H. D., Whiteman, and Russ.)
Russell, D. E. France. (See Lefler, Hawley B., assignor.)
Ruthrauff, William M., Philadelphia, Pa. Dentifrice. 1,460,179; June 26.
Ryan, William, Paso Robles, Calif. Demountable rim. 1,459,993; June 26.
Ryerson, Joseph T., & Son. (See Conradson, Conrad M., assignor.)
Ryzowicz, Louis, and J. J. Bolek, Cleveland, Ohio. Incandescent lamp. 1,460,143; June 26.
Sabbag, Litfallah G., Boston, Mass., assignor, by mesne assignments, to W. W. Miller, Martinsville, Va. Traveler stop for spinning rings. 1,460,144; June 26.
Safety Car Heating & Lighting Company, The. (See Vuilleumier, Rudolph, assignor.)
Sage, Ralph V., Philadelphia, and G. E. Thackray, Westmont Borough, Pa. Combined spring cap and truck bolster column guide. 1,459,799; June 26.
Saline, A. W. (See Holmes, Roy B., assignor.)
Salisbury, Robert F., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Expanding roller tool. 1,460,079; June 26.
Samsioe, Carl A. R., Stockholm, Sweden. Cleaning paste. 1,460,039; June 26.
Sanford, Henry H., Mansfield, Ohio. Gas heater. 1,459,994; June 26.
Saring, Courtland, Sharon, Pa. Hidden switch for coil boxes. 1,459,995; June 26.
Schmitt, Charles F. O. E. (See Pavely, A. G., and Schmitt.)
Schneider & Cie. (See Schneider, Engène, assignor.)
Schneider, Christian L., Davenport, Iowa. Window-sash weight. Re15,634; June 26.
Schneider, Engène, assignor to Schneider & Cie., Paris, France. Gun carriage having cranked axletrees. 1,459,800; June 26.
Schorik, Frank, assignor to J. Kostohryz, Chicago, Ill. Flash-light gun. 1,460,214; June 26.
Schrader's, A., Son, Incorporated. (See Kraft, Henry F., assignor.)
Schreiber, David, New York, N. Y. Shirt retainer. 1,459,750; June 26.
Schröder, Edmund, Berlin, Germany. Regulating gear. 1,460,281; June 26.
Schrot, Paul, Bad Sooden, Germany. Agglutinant for veneer. 1,460,341; June 26.
Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Husk for electric-light fixtures. 1,460,040; June 26.
Schwarz, Charles, Bayonne, N. J. Educational and amusement toy. 1,459,996; June 26.
Schweinert, Maximilian C., New York, N. Y. Tool for tire valves or the like. 1,459,751; June 26.
Schwimmer, Oscar, Los Angeles, Calif., assignor to Patent Products Company. Towel-service machine. 1,460,215; June 26.
Scudder, Charles, Long Island City, N. Y. Hinge for vessel covers. 1,459,862; June 26.
Searle, Robinson P., Toledo, Ohio. Specific-gravity indicator. 1,459,752; June 26.
Sears, Roebuck and Company. (See Fowler, Gordon F., assignor.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Segman, William, New York, N. Y. Bracelet. Des. 62,592; June 26.
Seiss, Leonard A., Toledo, Ohio. Wheel and shaft and interlocking same. 1,460,145; June 26.
Semet-Solvay Company. (See Joblin, Jacob M., assignor.)
Shafor, Ralph W., Denver, Colo. Converting the carbonates or sulphides of barium or strontium into the corresponding hydrates. 1,460,180; June 26.
Shaw, Roscoe H. (See Sherman, J. M., and Shaw.)
Sheehan, William M., assignor to Cast Steel Locomotive Ash Pan Company, St. Louis, Mo. Locomotive ash pan. 1,460,113; June 26.
Shelly, Hargus G., Mulvane, Kans. Boiler cleaner. 1,459,997; June 26.
Shelton, Henry D., Hughesville, Mo. Wind wheel. 1,460,114; June 26.
Sherman, James M., Washington, D. C., and R. H. Shaw, Chicago, Ill., dedicated, by mesne assignments, to the People of the United States. Acceleration of propionic fermentation. 1,459,959; June 26.
Sherwood, William, Detroit, Mich. Flush valve. 1,460,080; June 26.
Shill, Thomas, Highland Park, N. J. Owner's identification means for protecting automobiles against theft. 1,460,282; June 26.
Shur-On Optical Company. (See Leytham, Thomas, assignor.)
Shutsa, Stephen J., Uniontown, Pa. Attaching clamp. 1,460,283; June 26.
Siegfried, Robert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient coupling. 1,460,181; June 26.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Piston packing. 1,460,182; June 26.
Simmons, Ephriam W., Corinth, Miss. Lawn mower. 1,459,998; June 26.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. 1,459,753; June 26.
Simplex Paper Accessories Co. (See La Veck, Louis, assignor.)
Singer Manufacturing Company, The. (See Eames, G. M., and Ringe, assignors.)
Singer Manufacturing Company, The. (See Ringe, J. C., and Nissen, assignors.)
Skinner, Burr R., Aberdeen, S. Dak. Means for heating boiler feed water. 1,459,901; June 26.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Measured-service telephone system. 1,459,863; June 26.
Smalley, Edwin L., East Orange, N. J. Electric furnace. 1,459,801; June 26.
Smith, Arthur A., Lewis, and R. E. Smith, Kinsley, Kans. Clutch. 1,460,217; June 26.
Smith, Arthur G., Los Angeles, Calif. Folding table. 1,460,216; June 26.
Smith, George P., et al. (See Smith, Thomas C., assignor.)
Smith, Hazor J., Springfield, Mass. Preventing the formation of frost crystals in the circulating lines of refrigerating machines. 1,460,352; June 26.
Smith, Irving M., San Diego, Calif., assignor to The Q R S Music Company. Means of teaching piano playing. 1,459,802; June 26.
Smith, Robert E. (See Smith, Arthur A. and R. E.)

Smith, Thomas C., Bridgeport, Conn., assignor of one-third to G. P. Smith and R. E. Dickinson, both of New Haven, Conn., and one-third to A. C. Menges and R. L. Carr, both of Memphis, Tenn. Piston. 1,460,041; June 26.
Smith, Walter S., Foxboro, Mass. Water-heating apparatus. 1,460,042; June 26.
Smith, William H., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. Y. Packaged article. 1,459,754; June 26.
Smith, William H. F., Milwaukee, Wis., assignor, by mesne assignments, to International Harvester Company. Speed indicator. 1,460,218; June 26.
Snell, Samuel A., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Jack mechanism. 1,460,116; June 26.
Snyder, Charles D., Berrien Springs, Mich. Roller for skates. 1,460,183; June 26.
Society of Chemical Industry in Basle. (See De Montmollin, G., Spieler, and Bonhôte, assignors.)
Sommers, George A., Marshfield, Wis. Towel holder. 1,460,081; June 26.
Sonora Phonograph Corporation. (See Oberst, Frank, assignor.)
Spahr, George W., Mechanicsburg, Pa. Separable headrest. 1,460,082; June 26.
Speidel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Carrying handle for cameras. 1,459,755; June 26.
Sperry, Elmer A., Brooklyn, N. Y. Searchlight for the guidance or detection of aircraft. 1,459,902; June 26.
Spieler, Josef. (See De Montmollin, G., Spieler, and Bonhôte.)
Spielman, Milton H., Cleveland, Ohio. Device for air cooling dustproof fan motors. 1,460,146; June 26.
Stadelman, Edward S., Chicago, Ill. Adjustable shaking screen. 1,460,284; June 26.
Stahl, Harry E., Trenton, N. J., assignor to The Willey Company, Incorporated, Philadelphia, Pa. Electrical controlling mechanism. 1,459,756; June 26.
Stansfield, Edgar, Ottawa, Ontario, Canada. Heat treatment. 1,459,932; June 26.
Star Chandelier Co. (See Poritz, Frederick M., assignor.)
Staud r, Emanuel, assignor to Huther Bros. Saw Manufacturing Company, Rochester, N. Y. Band-saw machine. 1,459,933; June 26.
Steele, Albert H., administrator. (See Baird, M. B., and Walls.)
Stenhouse, Thomas, assignor of sixteen and two-thirds per cent to A. L. D. D'Adrian, Washington, Pa., and sixteen and two-thirds per cent to B. F. Drakenfeld, jr., New York, N. Y. Apparatus for supporting glass cylinders. 1,460,043; June 26.
Stenhouse, Thomas, Washington, Pa., assignor of one-sixth to A. L. D. D'Adrian, Washington, Pa., and one-sixth to B. F. Drakenfeld, jr., New York, N. Y. Method and apparatus for drawing glass cylinders. 1,460,285; June 26.
Stenhouse, Thomas, assignor of one-sixth to A. L. D. D'Adrian, Washington, Pa., and one-sixth to B. F. Drakenfeld, jr., New York, N. Y. Method of and apparatus for supporting glass cylinders. 1,460,286; June 26.
Stent, Dudley H., Delhi, India. Reenforced-concrete railway and the like sleeper. 1,460,115; June 26.
Steurer, John A., New York, N. Y. Diaphragm for sound-reproducing apparatus. 1,459,803; June 26.
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Semi-automatic table-moving attachment for presses. 1,459,757; June 26.
Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Tile press. 1,460,287; June 26.
Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)
Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)
Stiles, Eugene A., assignor to Kokomo Brass Works, Kokomo, Ind. Valves. 1,459,934; June 26.
Stookey, Daniel W., Cedar Rapids, Iowa. Trenching machine. 1,460,117; June 26.
Stripe, Horace G. (See Carver, George W., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Beyland, Sidney A., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
Stroud, William. (See Barr, A., and Stroud.)
Struchen, Henry C., St. Paul, Minn. Hoist for vehicle bodies. 1,459,935; June 26.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Ejector system. 1,459,936; June 26.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Fluid-compressing apparatus. 1,460,345; June 26.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Method of and apparatus for compressing fluid. 1,460,044; June 26.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Method of and apparatus for compressing fluid. 1,460,045; June 26.
Suman, J. R., et al. (See Reed, Warren B., assignor.)
Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Manufacture of wheels. 1,460,147; June 26.
Sweet, Alvin H., assignor of one-third to C. A. Sweet and one-third to C. R. Twitchell, Los Angeles, Calif. Linked brake-band lining. 1,460,118; June 26.
Sweet, Charles A. et al. (See Sweet, Alvin H., assignor.)
Symonds, Clarence M., San Anselmo, Calif., assignor to American Can Company, New York, N. Y. Blank feed for slitters. 1,459,758; June 26.
Tarbet, Albert, Lakeside, Calif. Current motor. 1,460,331; June 26.
Tarr, Walter M. P., Lowell, Mass. Garment hanger. 1,459,804; June 26.
Tasker, Walter T., Cliftonville, Margate, England. Tool and tool holder for turning, planing, and like operations. 1,459,805; June 26.
Tate-Jones & Company. (See Knapp, James H., assignor.)
Tattersall, Arthur E., Harrow, England. Railway signalling apparatus. 1,459,999; June 26.
Taylor, Alfred and H. D., York, England. Erecting prism for telescopes and other optical instruments. 1,459,864; June 26.
Taylor, Harold D. (See Taylor, Alfred and H. D.)
Taylor-Wilson Manufacturing Company. (See Wilson, Edgar H., assignor.)
Teipel, Henry C., Hartford, Wis. Combined puzzle and educational device. 1,459,937; June 26.
Telephone Manufacturing Company, Limited. (See Murray, Robert L., assignor.)
Tenney, John, jr., Plainfield, assignor to Howe Rubber Corporation, New Brunswick, N. J. Tire. Des. 62,593; June 26.
Thackray, George E. (See Sage, R. V., and Thackray.)
Thiel, Charles P. R., assignor to Davis & Furber Machine Company, North Andover, Mass. Cone duster. 1,459,938; June 26.
Thomas, Thomas A., Amherstdale, W. Va. Trolley-wire cut-out switch. 1,460,288; June 26.
Thomason, Orie L. (See Hoover, C. F., and Thomason.)
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Protective device for polyphase circuits. 7,460,000; June 26.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Recording signal. 1,460,083; June 26.
Thomson, Thomas. (See Hamilton, G. S., and Thomson.)
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Transposition scale. 1,460,148; June 26.
Tingley, Charles L. S., St. Davids, Pa. Railway ticket. 1,459,806; June 26.
Todd, Isaac, Belfast, Ireland. Steam boiler. 1,459,807; June 26.
Toledo Machine & Tool Company, The. (See Byerlein, Arthur A., assignor.)
Toner, Minnie. (See McKee, Charles E., assignor.)
Toney, George W., Waltham, Mass., assignor, by mesne assignments, to Old Colony Trust Company, trustee. Resetting means for counters. 1,460,119; June 26.
Toney, George W., Waltham, Mass., assignor, by mesne assignments, to Old Colony Trust Company, trustee. Resetting means for counters. 1,460,120; June 26.
Tota, Nick, Camden, N. J. Talking-machine cabinet. 1,460,289; June 26.
Tripp, Jesse, jr., Los Angeles, Calif. Store furniture. 1,460,332; June 26.
Trombley, Benjamin B., Syracuse, N. Y. Wagon. 1,460,290; June 26.
Troy Laundry Machinery Co. Ltd. (See Malone, Ernest J., assignor.)
Truffy, Antoine, Courbevoie, France. Folding seat. 1,460,291; June 26.
Twitchell, Charles R., et al. (See Sweet, Alvin H., assignor.)
Twogood, Ernest N., Schenectady, N. Y., assignor to General Electric Company. Shaft coupling. 1,460,001; June 26.
Unger, Hervey W., Falconer, N. Y. Yarn-inspecting machine. 1,459,865; June 26.
United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)
United Shoe Machinery Corporation. (See McIntire, James E., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Smith, William H., assignor.)
United States Metallic Packing Company, The. (See Light, R. A., and Price, assignors.)
United States Metallic Packing Company, The. (See Price, Joseph W., jr., assignor.)
Uran, Andrew, assignor of one-half to J. Weiss, New York, N. Y. Flash light. 1,460,002; June 26.
Urtubees, Alfred H., Minneapolis, Minn. Blow-off valve for pneumatic tires. 1,459,939; June 26.
U. S. Ball Bearing Manufacturing Company. (See Parsons, Harry N., assignor.)

Utilities Development Corporation. (See Irwin, George H., assignor.)
Vance, Ira C., Howell, Ark. Reliner. 1,460,292; June 26.
Vancso, Andrew, Chicago, Ill. Collar button. 1,459,940; June 26.
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Electric pump-operated fuel-feeding device. 1,459,960; June 26.
Ver Mehr, John, and J. S. Owens, London, England. Metallic sheet piling. 1,460,263; June 26.
Vest, Cinrence D., Stockton, Calif. Sign support. 1,459,866; June 26.
Vesta Battery Corporation. (See Angell, Chester M., assignor.)
Vester, Alfred, Sons, Inc. (See Gerth, Ruth L., assignor.)
Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
Voirol, Jules A., Hartford, Conn. Tire tool. 1,459,867; June 26.
Vuilleumier, Rudolph, New Rochelle, N. Y., assignor to The Safety Car Heating & Lighting Company. Apparatus for applying heat and using such apparatus. 1,460,046; June 26.
Wagemans, Joseph E., and G. Ledewyn, Brussels, Belgium. Stop mechanism for rotary box looms. 1,460,003; June 26.
Walbrecker, Ernest, Wyomissing, assignor to The Narrow Fabric Co., West Reading, Pa. Trimming braid for garments. Des. 62,594; June 19.
Walbrecker, Ernest, Wyomissing, assignor to The Narrow Fabric Co., West Reading, Pa. Trimming braid for garments. Des. 62,595; June 19.
Walbrecker, Ernest, Wyomissing, assignor to The Narrow Fabric Co., West Reading, Pa. Trimming braid for garments. Des. 62,596; June 19.
Walbrecker, Ernest, Wyomissing, assignor to The Narrow Fabric Co., West Reading, Pa. Trimming braid for garments. Des. 62,597; June 19.
Walker, Viola K., administratrix. (See McGahan, Frederick L.)
Wall, Porter G., Ararat, N. C. Furnace door. 1,459,808; June 26.
Wallis, John E., Richmansworth, England. Building block. 1,460,084; June 26.
Walls, George A. (See Baird, M. B., and Walls.)
Walston, Benjamin B., Dallas, Tex. Door holder. 1,460,047; June 26.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. 1,460,293; June 26.
Wanamaker, John, Philadelphia, Pa. (See Rehfuss, Martin O., assignor.)
Wangenheim, Adolph V., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. 1,459,809; June 26.
Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Shirt board for ironing machines. 1,460,184; June 26.
Warren, Hall, Galveston, Tex. Method and apparatus for decorticating nuts. 1,460,004; June 26.
Watson, Harry C., Canton, Ohio. Apparatus for shaking out castings. 1,460,085; June 26.
Watts, Henry T., Youngstown, Ohio. Gas burner. 1,460,086; June 26.
Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Automatic scale. 1,460,087; June 26.
Webster, Melvin L., assignor to M. P. Webster, Independence, Iowa. Contractible display and shipping case. 1,460,185; June 26.
Webster, Minerva P. (See Webster, Melvin L., assignor.)
Wegner, Lewis E., Hagerstown, Md. Wrench. 1,460,294; June 26.
Weiss, Julius. (See Uran, Andrew, assignor.)
Walden, Andrew J., Griffin, Ga. Pump. 1,460,295; June 26.
Welffens, Emile J., Manchester, England. Means for starting, stopping, and driving machinery. 1,459,759; June 26.
Welsh, John G., Youngstown, Ohio. Waterproof cigarette case. 1,460,296; June 26.
Wendling, George X., San Francisco, Calif. Pole-base construction. 1,460,186; June 26.
Wernicke, Otto H. L., Gull Point, Fla. Wall block or member. 1,460,005; June 26.
Wesnick, Erwin, Berlin, Germany. Adjustable propeller nave. 1,459,941; June 26.
West, Peter, S. L., Brooklyn, N. Y. Fuel economizer. 1,460,297; June 26.
Westergard, Christ, Denbigh, N. Dak. Vehicle spring. 1,460,298; June 26.
Western Electric Company Incorporated. (See Ford, William H. D., assignor.)
Western Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
Western Electric Company. (See Moore, Charles R., assignor.)
Western Tire Company. (See Carnal, William D., assignor.)
Westfield Manufacturing Company. (See Clark, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dean, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dill, George C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanker, Frederic C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Carl G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lehr, Edwin, assignor.)
Westinghouse Electric & Manufacturing Company. (See Moore, Benjamin S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Patten, Francis H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Seigfried, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wortman, Otto, assignor.)
Westphal, William, Los Angeles, Calif. Combined davenport and bed. 1,460,006; June 26.
Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Variable venturi for suction-feed systems. 1,459,961; June 26.
Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Exhaust-pressure governor for suction-feed systems. 1,459,962; June 26.
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Whitehouse, Arthur E., Montreal, Quebec, Canada. Machine for the manufacture of building blocks and the like. 1,460,299; June 26.
Whiteman, Charles E. (See Penney, H. D., Whiteman, and Russ.)
Whitfield, Mark M., Memphis, Tenn. Compressing apparatus. 1,460,300; June 26.
Whitman, Robert B., Boston, Mass. Wheel tire. 1,460,187; June 26.
Wichman, Frank S. (See Otis S. and Wichman.)
Wig, Rudolph J. (See Burrows, Charles W., assignor.)
Wilkens, Edward T. (See Bollheimer, R., and Wilkens.)
Wilkins, James M., assignor to A. Mueller, trustee, Decatur, Ill. Fluid-pressure regulator. 1,460,301; June 26.
Will, George B. M. (See Goodin, Edward L., assignor.)
Willett, Alfred H., West New York, and H. S. Martin, Ridgewood, N. J., assignors to American Arch Company, New York, N. Y. Baffle-wall brick. 1,460,188; June 26.
Willey Company, Incorporated, The. (See Stahl, Harry E., assignor.)
Williams, Allie M., Fort Smith, Ark. Stirring paddle. 1,460,007; June 26.
Williams, Jesse J., Utica, N. Y. Wire frame. Re15,635; June 26.
Williams, Joseph G., New York, N. Y., assignor of one-fourth to G. T. Keen and one-fourth to C. Burton, both of New York, N. Y. Double-faced changeable-letter sign. 1,460,302; June 26.
Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Lubricating apparatus. 1,460,353; June 26.
Williamson, William R., Thayer, Mo. Electric stove. 1,459,868; June 26.
Willis, Carl S., Bellingham, Wash. Rock pulverizer. 1,460,008; June 26.
Wills, Charles M., Atlantic City, N. J. Golf club. 1,459,810; June 26.
Willys-Overland Company. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Lichter, Adolph H., assignor.)
Wilson, Edgar H., Chartiers Township, Allegheny County, assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa. Pipe cutting, rounding, and threading machine. 1,460,088; June 26.
Wilson, Tom, Johnstown, Pa. Rolling-mill appliance. 1,459,811; June 26.
Winchester Repeating Arms Co. (See Gravely, Julian S., assignor.)
Wine, William E., Toledo, Ohio. Railway car. 1,460,009; June 26.
Witt, John J., Winchendon, Mass., assignor to Goodspeed Machine Company. Lathe-carriage attachment. 1,460,121; June 26.
Woltz, Albert M., assignor, by mesne assignments, to M. L. Himmel & Son, Baltimore, Md. Dust-excluding device for shelving. 1,460,089; June 26.
Wood, David W., Brazil, Ind. Clutch. 1,460,303; June 26.
Wooldridge, Oscar M., Evansville, Ind. Bottle-cooling device. 1,460,304; June 26.
Woolf, Frank H., Chicago, Ill. Coating machine. 1,460,189; June 26.
Woolwine, George. (See Rose, B. E., and Woolwine.)
Worthington, James B. (See Bartley, V., and Worthington.)
Wortman, Otto, Audubon, N. J., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,460,190; June 26.
Yankoff, Peter D., Fort Smith, Ark. Comb. 1,460,305; June 26.
Yeager, Earnest C. (See Jones, M. A., Krollage, and Yeager.)

Zacharias, Christian, et al. (See Barr, Harry R., assignor.)
Zeman, Frank, Little Falls, Minn. Car lock. 1,459,812; June 26.
Ziffer, Fritz. (See Leiser, R., and Ziffer.)
Zilocckl, Giordano, Granton, assignor of 30 per cent to M. A. Monzione, North Bergen, N. J. Drilling machine. 1,460,219; June 26.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF JUNE, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Aeroplane. E. L. Goodin. 1,459,882-3; June 26.
Aeroplanes, Launching device for. E. L. Goodin. 1,459,884; June 26.
Air-brake apparatus. S. G Neal. 1,459,853; June 26.
Aircraft, Searchlight for the guidance or detection of. E. A. Sperry. 1,459,902; June 26.
Airplane. J. M. Arrowood. 1,459,942; June 26.
Airplanes, Variable pitch propeller for. C. L. Parker. Re15,638; June 26.
Air-release device. W. A. E. Maddock. 1,460,027; June 26.
Airship. J. Neff, sr. 1,459,742; June 26.
Airships, Gas duct in. L. Dürr. 1,459,878; June 26.
Alarm: *See*—
Automatic alarm.
Anchor. F. J. Jackson. 1,459,768; June 26.
Animal trap. W. T. Harmon. 1,460,199; June 26.
Animal trap. L. J. La Valle. 1,459,897; June 26.
Attaching clamp. S. J. Shutsa. 1,460,283; June 26.
Auto attachment. H. D. Cook. 1,460,193; June 26.
Automatic alarm. F. P. Hartley. 1,460,019; June 26.
Automobile gate. J. W. Laverence. 1,460,200; June 26.
Automobile lock. J. H. Frost. 1,460,238; June 26.
Automobile name plate. W. M. Long and L. S. Lemere. Des. 62,576; June 26.
Automobile washer. H. B. Davis. 1,460,096; June 26.
Automobiles against theft, Owner's identification means for protecting. T. Shill. 1,460,282; June 26.
Awning-control means. J. R. Maclear. 1,460,359; June 26.
Axle construction. R. Keck. 1,460,064; June 26.
Axle mill. G. S. Hamilton and T. Thomson. 1,460,061; June 26.
Badge or insignia. W. L. Panikoff. 1,460,111; June 26.
Bag frame and vanity or powder box, Combination. F. Goertz. 1,460,240; June 26.
Bag-opening machine. E. T. Enright. 1,459,880; June 26.
Bag or parcel tie. C. F. Mitchell. 1,460,207; June 26.
Bags, Closure for ice. H. P. Kraft. 1,459,735; June 26.
Balloon fabric and making same. C. A. Cleghorn. 1,460,053; June 26.
Bar: *See*—
Deformed bar.
Grate bar.
Battery: *See*—
Storage battery.
Bearing, Ball. H. N. Parsons. 1,459,858; June 26.
Bearing holder. M. B. Banowetz. 1,460,011; June 26.
Bearing, Meter. W. E. Porter. 1,459,987; June 26.
Bearing, Roller. F. A. Critz, jr. 1,459,974; June 26.
Bearings, Cage for antifriction. G. R. Bott. 1,459,718; June 26.
Bed and luggage carrier, Combined. F. C. Clauson and G. G. Kibbee. 1,459,972; June 26.
Beds, Attachment for. J. R. Anderson. 1,460,306; June 26.
Bedspring support. W. H. Matthews. 1,460,262; June 26.
Bedstead, End frame for a. W. Lies. Des. 62,575; June 26.
Berth. A. E. Gosso. 1,459,826; June 26.
Beverage-dispensing apparatus. J. Mohn. 1,460,209; June 26.
Bird-cage catch. L. J. Leon. 1,460,102; June 26.
Biscuits, cup wafers, and similar articles from liquid, Machinery for making wafer. T. O. Bates. 1,460,307; June 26.
Blast furnace. J. Kennedy. 1,460,065; June 26.
Blast-furnace stock-line protection. E. L. Ives. 1,459,895; June 26.
Bleacher, Portable. H. D. Oberdorfer. 1,460,267; June 26.
Block: *See*—
Building block.
Bobbin-antisplitting device. F. B. Guyette and F. M. Gunn. 1,459,727; June 26.
Boiler: *See*—
Steam boiler.
Boiler and heater. P. O. Roth. 1,460,280; June 26.
Boiler cleaner. H. G. Shelly. 1,459,997; June 26.
Boiler-washout systems, Temperature control for. S. Otis and F. S. Wichman. 1,460,109; June 26.
Bomb, Water. M. C. A. H. Pape. 1,459,793; June 26.
Book-cover gauge. C. B. Nelson. 1,460,348; June 26.
Boots and shoes, Heel cushion for. B. Ross. Des. 62,591; June 26.
Bottle. L. J. Isola. Des. 62,571; June 26.
Bottle cap. C. C. Parker. 1,460,269; June 26.
Bottle-cleaning machines, Crate for. B. E. Linfoot. 1,460,068; June 26.
Bottle cooling device. O. M. Wooldridge. 1,460,304; June 26.
Bottle filling and capping machine or the like. R. L. Nicholas. 1,460,210; June 26.
Bottle-filling machine or the like. R. L. Nicholas and M. Goldberger. 1,460,211; June 26.
Bottle, Unbreakable nursing. P. W. Frehafer. 1,459,725; June 26.
Bottles, etc., Mechanism for handling. M. C. Heath. 1,460,020; June 26.
Box: *See*—
Match box.
Powder-dispensing box.
Suture box.
Vanity box.
Box for candy or the like. J. K. Farley, jr. 1,460,127; June 26.
Bracelet. W. Segman. Des. 62,592; June 19.
Bracket: *See*—
Spotlight bracket.
Braid or the like, Package for. O. Mitchell. 1,459,849; June 26.
Brake: *See*—
Hydraulic brake.
Brake-band lining, Linked. A. H. Sweet. 1,460,118; June 26.
Brake mechanism. A. H. Peycke. 1,459,745; June 26.
Braking apparatus. M. Loughead. 1,460,163; June 26.
Brick, Baffle-wall. A. H. Willett and H. S. Martin. 1,460,188; June 26.
Brush and scraper, Combined. J. J. Reardon. 1,459,861; June 26.
Brush holder. J. S. Dean. 1,460,152; June 26.
Brush holder. R. E. Hellmund. 1,460,158; June 26.
Building block. J. E. Wallis. 1,460,084; June 26.
Building blocks and the like, Machine for the manufacture of. A. E. Whitehouse. 1,460,299; June 26.
Bung for mtallic receptacles. G. F. Behringer. 1,459,903; June 26.
Burner: *See*—
Gas burner.
Liquid-fuel burner.
Oil burner.
Button, Collar. A. Vanco. 1,459,940; June 26.
Buttons, Process and tool for making leather. M. D. Herman. 1,459,888; June 26.
Cable clamp. J. A. Robertson. 1,460,276; June 26.
Calipers. A. Belanger and F. P. Riches. 1,460,275; June 26.
Camera. G. Quarfoth. 1,460,112; June 26.
Cameras, Carrying handle for. C. F. Speidel. 1,459,755; June 26.
Camping outfit. A. J. Lewis. 1,460,162; June 26.
Can: *See*—
Oil can.
Can-filling machine. O. H. Hansen. 1,460,198; June 26.
Car-door clamp. J. E. Cossairt. 1,459,764; June 26.
Car lock. F. Zeman. 1,459,812; June 26.
Car, Railway. W. E. Wine. 1,460,009; June 26.
Carrier: *See*—
Trace carrier.
Cars, Construction and repair of railway. A. M. McGill. 1,460,069; June 26.
Cars, Process and means for switching railway. F. W. Eagelston. 1,460,325; June 26.
Carbonates or sulphides of barium or strontium into corresponding hydrates, Converting the. R. W. Shafor. 1,460,180; June 26.
Cards, Vacuum apparatus for stripping. P. Kestner. 1,459,832; June 26.
Carton. F. E. Beam. 1,460,124; June 26.
Carton, Display. J. V. Horr. 1,460,132; June 26.
Case: *See*—
Cigarette case.
Vanity case.
Case lift, Automatic. R. A. Erslev. 1,459,722; June 26.
Casing and cementing the same, Setting. W. B. Reed. 1,459,990; June 26.
Casing elevator. J. D. Gibbs. 1,460,018; June 26.
Casket. W. J. Riley. 1,459,749; June 26.
Caster. J. Karpiej. 1,460,159; June 26.
Castings, Apparatus for shaking out. H. C. Watson. 1,460,085; June 26.
Catalyst from catalysis residue, Recovering. E. V. Owen. 1,460,110; June 26.
Centering device. L. J. Rosbach. 1,460,279; June 26.
Centrifugal extractor. W. H. Rouston. 1,460,142; June 26.

Chain tightener. F. V. Fischer. 1,460,235; June 26.
Chair, Lunch-room. M. A. Malia. Des. 62,577; June 26.
Chandelier. F. M. Poritz. Des. 62,589; June 19.
Chlorination of methane (CH_4). R. Leiser and F. Ziffer. 1,459,777; June 26.
Cigar lighter. C. H. Cuno. 1,460,095; June 26.
Cigarette case, Waterproof. J. G. Welsh. 1,460,296; June 26.
Cinématographic film, Coiling strip material such as. A. G. Pavely and C. F. O. E. Schmitt. 1,459,795; June 26.
Circles, Device for drawing. N. B. Costovici. 1,460,093; June 26.
Circuits, Protective device for polyphase. L. W. Thompson. 1,460,000; June 26.
Circuits, Repeater. O. B. Jacobs. 1,459,769; June 26.
Clamp: *See*—
Attaching clamp.
Cable clamp.
Car-door clamp.
Pipe-repair clamp.
Polish-rod clamp.
Cleaner: *See*—
Boiler cleaner.
Suction cleaner.
Vacuum cleaner.
Cleaning paste. C. A. R. Samsioe. 1,460,039; June 26.
Clocks, Alarm controlling mechanism for. T. S. Casner. 1,459,876; June 26.
Clothesline fastener. L. Aime. 1,460,333; June 26.
Clutch. H. P. Eilers. 1,460,234; June 26.
Clutch. W. F. Morse. 1,459,851; June 26.
Clutch. A. A. and R. E. Smith. 1,460,217; June 26.
Clutch. D. W. Wood. 1,460,303; June 26.
Clutch-control mechanism. G. E. Hallenbeck. 1,460,155; June 26.
Coal, slate, or other bituminous substances, Apparatus for the semicoking of. K. Prinz Zu Löwenstein. 1,460,024; June 26.
Coating composition. A. Duke. 1,460,317; June 26.
Coating machine. F. H. Woolf. 1,460,189; June 26.
Coffee mill. C. M. Nevius. 1,459,790; June 26.
Coffee roaster. C. M. Nevius. 1,459,791; June 26.
Coil boxes, Hidden switch for. C. Saring. 1,459,995; June 26.
Coil, Choke. G. C. Dill. 1,460,153; June 26.
Coils, Slider for tuning. W. F. Gebrig. 1,460,239; June 26.
Coke-discharging apparatus. W. G. Laird. 1,460,067; June 26.
Colloidal metals and metalloids and compounds of same, Preparing. L. Berend. 1,460,012; June 26.
Colors, Appliance for displaying. M. M. Miles. 1,460,264; June 26.
Comb. P. D. Yankoff. 1,460,305; June 26.
Compressing apparatus. M. M. Whitfield. 1,460,300; June 26.
Computing machine. K. R. Hammond. 1,459,886; June 26.
Concrete blocks, Mold for. E. C. Boniger. 1,459,945; June 26.
Concrete insert. L. A. Nielson. 1,460,035; June 26.
Concrete mold. G. M. Ditto. 1,460,232; June 26.
Concrete-wall form. G. B. Hoag. 1,459,889; June 26.
Connector, Rotatable. J. Pierson. 1,460,037; June 26.
Control apparatus. R. P. Brown. 1,459,821; June 26.
Control, System of. O. Wortman. 1,460,190; June 26.
Conveying system. J. E. McBride. 1,459,916; June 26.
Cooking device. M. Kott. 1,460,248; June 26.
Cooking device, Electric. M. E. Penso. 1,460,140; June 26.
Cooling and fragmenting apparatus and method. H. C. Cronemeyer. 1,459,947; June 26.
Cord holder. J. W. Brown and J. N. Fitzsimmons. 1,459,763; June 26.
Counters, Resetting means for. G. W. Toney. 1,460,119–20; June 26.
Countersink gauge. W. N. John. 1,459,896; June 26.
Counting apparatus. L. La Veck. 1,460,101; June 26.
Coupling: *See*—
Flexible coupling.
Pipe coupling.
Resilient coupling.
Rod coupling.
Shaft coupling.
Covers, Hinge for vessel. C. Scudder. 1,459,862; June 26.
Crane sling chains, Hook for. W. J. Bemis. 1,459,816; June 26.
Crib cover. E. M. Drew. 1,460,233; June 26.
Crocks, Hoop for lifting. F. Ottman. 1,460,268; June 26.
Current motor. A. Tarbet. 1,460,331; June 26.
Curtain hanger. B. L. Glarin. 1,460,335; June 26.
Curtain-roller support. H. M. Marsh. 1,459,789; June 26.
Cushion, Pin. J. F. Jewett. 1,460,326; June 26.
Cutter head. H. G. Aldridge. 1,459,760; June 26.
Cycle. G. W. Clark. 1,460,052; June 26.
Davenport and bed, Combined. W. Westphal. 1,460,006; June 26.
Deformed bar. G. Baehr. 1,460,090; June 26.
Dental bridge. H. Eisele. 1,459,951; June 26.
Dentifrice. W. M. Ruthrauff. 1,460,179; June 26.
Dial. A. R. McCann. 1,459,917; June 26.
Digester and strainer therefor. F. E. Johnson, jr. 1,459,913; June 26.
Dirigible headlights for vehicles. C. F. Hoover and O. L. Thomason. 1,459,891; June 26.
Disk rolling machine. H. Y. Hildebrand. 1,459,767; June 26.
Display and shipping case, Contractible. M. L. Webster. 1,460,185; June 26.
Door, Furnace. P. G. Wall. 1,459,808; June 26.
Door holder. B. B. Walston. 1,460,047; June 26.
Door-holder device, Garage. O. P. Overlien. 1,459,899; June 26.
Door lock. J. McArthur. 1,460,166; June 26.
Doors, Checkstrap for. W. P. Dorl. 1,459,949; June 26.
Draft evener. M. E. Leigh. 1,460,257; June 26.
Drafting instrument. C. P. L. Nilant. 1,459,792; June 26.
Drag, Road. H. H. Gosch. 1,460,321; June 26.
Drawing press. A. A. Byerlein. 1,459,905; June 26.
Drilling device. C. C. Codding. 1,459,822; June 26.
Drilling machine. G. Zilocckl. 1,460,219; June 26.
Drive mechanism, Intermittent. H. D. Penney, C. E. Whiteman, and G. F. Russ. 1,459,796; June 26.
Drying apparatus. O. C. Reeves. 1,459,929; June 26.
Drying frame. H. H. Litchfield. 1,460,260; June 26.
Drying machine. G. Ianieri. 1,459,912; June 26.
Duplicating means. H. B. A. Eversbed. 1,460,058; June 26.
Dust-excluding device for shelving. A. M. Woltz. 1,460,089; June 26.
Duster, Cone. C. P. R. Thiel. 1,459,938; June 26.
Dyestuffs of the triarylmethane series and making same. G. de Montmollin, J. Spieler, and G. Bonhôte. 1,460,315; June 26.
Ejector system. R. Suczek. 1,459,936; June 26.
Electric furnace. E. L. Smalley. 1,459,801; June 26.
Electric heater. W. S. Hadaway, jr. 1,459,729; June 26.
Electric heater and its manufacture, Waterproof. L. P. Hynes. 1,459,829; June 26.
Electric heating device. W. C. Lindemann. 1,460,259; June 26.
Electric-light fixtures, Husk for. J. W. Schulze. 1,460,040; June 26.
Electric machines, Mounting for slip rings of dynamo-. E. Meyercordt. 1,460,031; June 26.
Electric switch. B. Mazza. 1,459,956; June 26.
Electrical communication, Method of and apparatus for. D. G. McCaa. 1,459,786; June 26.
Electrical controlling mechanism. H. E. Stahl. 1,459,756; June 26.
Electrical distribution, System of. G. H. Roosevelt. 1,460,213; June 26.
Electrical fixture. M. Guett. 1,460,060; June 26.
Electromagnetic device. W. H. D. Ford. 1,459,824; June 26.
Elevator: *See*—
Casing elevator.
Elevator control. E. G. Bahl. 1,460,091; June 26.
Engines, Automatic controlling means for the ignition timing in internal-combustion. C. K. Edwards and D. E. Batty. 1,460,056; June 26.
Engines, Compression-relieving mechanism for internal-combustion. H. Demers. 1,459,906; June 26.
Engines, Intake manifold for internal-combustion. H. P. Fesenmaier. 1,459,724; June 26.
Engines of motor vehicles, Apparatus for automatically starting. A. Goodheim. 1,459,726; June 26.
Engines, Radiator device for gas. L. P. Barlow. 1,460,360; June 26.
Engines, Silencer for internal-combustion. C. Parolini and G. Perron. 1,459,797; June 26.
Esters, Producing. C. B. Carter and A. E. Coxe. 1,459,971; June 26.
Ethyl acetate, Manufacture of. M. Mugdan and W. Herrmann. 1,459,852; June 26.
Extractor: *See*—
Centrifugal extractor.
Eyeglasses, Temple for. T. Leytham. 1,459,778; June 26
Eyelets, Machine for inserting. J. E. McIntire. 1,459,738; June 26.
Fan. G. E. Otis. 1,459,927; June 26.
Feed systems, Exhaust-pressure governor for suction-. L. H. Wheeler. 1,459,962; June 26.
Feed systems, Variable venturi for suction-. L. H. Wheeler. 1,459,961; June 26.
Feed water, Means for heating boiler. B. R. Skinner. 1,459,901; June 26.
Feeders, Separator for. B. Deck. 1,460,314; June 26.
Feeding and punching apparatus, Strip. E. B. Hine. 1,459,890; June 26.
Feeding mechanism, Deflector for plate-. E. C. Pool. 1,460,038; June 26.
Fender. W. G. Cox. 1,460,343; June 26.
Film and composition for making the same, Cellulose-ether. J. M. Donohue and E. S. Farrow, jr. 1,460,097; June 26.
Film holder, Roll-. J. A. Knorr. 1,459,914; June 26.
Film-patching machine. W. E. Carleton. 1,459,822; June 26.
Film supporter and hanger, Combined. A. B. L. and G. de J. Mesny. 1,460,346; June 26.
Filter. F. W. Manning. 1,459,836; June 26.
Filter press. A. M. Gray. 1,459,911; June 26.
Fishing reel. F. M. Case. 1,460,151; June 26.
Flanged articles, Machine for finishing. J. M. Nash. 1,459,741; June 26.
Flanging machine. H. McCabe. 1,460,167; June 26.

Flash light. E. R. Barany. 1,460,149; June 26.
Flash light. A. Uran. 1,460,002; June 26.
Flash-light-battery thrust cap. E. R. Barany. 1,460,150; June 26.
Flexible coupling. R. B. Holmes. 1,460,337; June 26.
Flexible joint. R. B. Holmes. 1,460,338; June 26.
Floor and ceiling construction. H. D. Conway. 1,460,014; June 26.
Fluid-compressing apparatus. R. Suczek. 1,460,345; June 26.
Fluid, Method of and apparatus for compressing. R. Suczek. 1,460,044–5; June 26.
Fluid-pressure regulator. J. M. Wilkins. 1,460,301; June 26.
Folding machine. M. O. Rehfuss. 1,460,273; June 26.
Folding seat. A. Truffy. 1,460,291; June 26.
Folding table. A. G. Smith. 1,460,216; June 26.
Fork or similar article. A. G. Kintz. Des. 62,572; June 26.
Formaldehyde, Manufacture of. A. Heinemann. 1,460,244; June 26.
Frame: *See*—
Drying frame.
Wire frame.
Frames, Stop-motion mechanism for fly. G. Pucci. 1,460,141; June 26.
Fringe. F. W. Oehrle. Des. 62,581; June 26.
Fruit-grading machine. F. B. Purchas. 1,460,270; June 26.
Fuel economizer. P. S. L. West. 1,460,207; June 26.
Fuel-feeding device, Electric pump-operated. W. Van Guilder. 1,459,960; June 26.
Fuel, Force feed for powdered. F. L. McGahan. 1,460,168; June 26.
Furnace: *See*—
Blast furnace.
Electric furnace.
Furnace. J. H. Knapp. 1,460,066; June 26.
Furnace-charging apparatus. A. C. Nelson. 1,459,984; June 26.
Furniture, Store. J. Tripp, jr. 1,460,332; June 26.
Garbage destroyer. L. W. Beggs. 1,459,713; June 26.
Garment. A. Rocke. 1,460,277; June 26.
Garment fastener. R. H. Anderson. 1,459,966; June 26.
Garment hanger. W. M. P. Tarr. 1,459,804; June 26.
Garment, Infant's. H. L. Redmond. 1,459,747; June 26.
Garment, Rainproof. C. Freeman. 1,460,237; June 26.
Garments, Trimming braid for. E. Walbrecker. Des. 62,594–7; June 19.
Gas burner. H. T. Watts. 1,460,086; June 26.
Gas controller and the like. A. Horstmann. 1,460,339; June 26.
Gas heater. H. H. Sanford. 1,459,994; June 26.
Gas, Method of and apparatus for treating material with. T. Nagel. 1,459,923; June 26.
Gases, Method of and apparatus for cleaning. A. G. McKee. 1,459,982; June 26.
Gate: *See*—
Automobile gate.
Gathering machines, Frames for. H. Henderson. 1,459,731; June 26.
Gauge: *See*—
Book-cover gauge.
Countersink gauge.
Light gauge.
Pressure gauge.
Saw gauge.
Gear drive. J. K. Delano. 1,459,948; June 26.
Gear, Flexible. G. H. F. Holy. 1,460,131; June 26.
Gear joint and housing, Swivel. J. K. Olsen. 1,459,958; June 26.
Gear, Regulating. Eschröder. 1,460,281; June 26.
Gearing. K. Alquist. 1,459,964; June 26.
Gin rib. F. B. Cumpston. 1,460,228; June 26.
Glass cylinders, Apparatus for supporting. T. Stenhouse. 1,460,043; June 26.
Glass cylinders, Method and apparatus for drawing. T. Stenhouse. 1,460,285; June 26.
Glass cylinders, Method of and apparatus for supporting. T. Stenhouse. 1,460,286; June 26.
Glass, Safety gauge. G. Ernst. 1,459,952; June 26.
Glasses and analogous articles, Apparatus for drying and polishing. H. A. Cole. 1,460,092; June 26.
Golf club. C. M. Wills. 1,459,810; June 26.
Grader. G. E. Ketchum. 1,460,022; June 26.
Grader, Wheeled. R. Bollheimer and E. T. Wilkens. 1,460,225; June 26.
Grate bar, Hollow-blast. T. L. La Malta. 1,460,254; June 26.
Grate, Furnace. E. R. Anderson. 1,459,870; June 26.
Grate, Shaking and dumping. J. E. Hancock. 1,460,242; June 26.
Grate, Stoking. W. B. McBurney. 1,459,980; June 26.
Gravel dump. T. A. Hartung. 1,459,766; June 26.
Gravity drop. J. Downie. 1,459,950; June 26.
Grinding and boring machine. V. Bartley and J. B. Worthington. 1,460,342; June 26.
Grindstone. I. F. Nelson. 1,460,171; June 26.
Gun carriage having cranked axletrees. E. Schneider. 1,459,800; June 26.
Gun, Flash-light. F. Schorik. 1,460,214; June 26.
Hair crimper. J. F. Donnelly. 1,460,126; June 26.
Hair waver, Machine for making. E. G. Loomis. 1,459,782; June 26.
Handle: *See*—
Package handle.
Handle. W. C. J. Elsen. 1,460,057; June 26.
Hanger: *See*—
Curtain hanger.
Garment hanger.
Headlight dimmer. P. Bierbrauer and I. D. Peters. 1,460,309; June 26.
Headrest, Separable. G. W. Spahr. 1,460,082; June 26.
Heat and using such apparatus, Apparatus for applying. R. Vuilleumier. 1,460,046; June 26.
Heat equipment for the home, Triune. O. S. Bowman. 1,459,762; June 26.
Heat treatment. E. Stansfield. 1,459,932; June 26.
Heater: *See*—
Electric heater.
Gas heater.
Instantaneous heater.
Heating element, Electrical. P. A. E. Armstrong and R. P. De Vries. 1,460,048; June 26.
Heel-building machine. R. C. Simmons. 1,459,753; June 26.
Hinge. C. R. Belk. 1,459,872; June 26.
Hoist for vehicle bodies. H. C. Struchen. 1,459,935; June 26.
Hopper, Feeding. O. D. Collis. 1,460,226; June 26.
Hot plate and laundry stove, Combined. R. Hoffman. 1,460,129; June 26.
House, Portable. C. W. Andrews. 1,459,761; June 26.
Household mixer and beater. G. B. Coleman. 1,460,125; June 26.
Humidifier. J. O. Patty. 1,459,794; June 26.
Hydraulic brake. M. Loughead. 1,460,164; June 26.
Hydrodynamic separation of particles, Method of and apparatus for the. T. Nagel. 1,459,921–2; June 26.
Hydrothermostatic system. E. V. Hill. 1,460,128; June 26.
Ignition system. J. H. Hunt. 1,459,893; June 26.
Illuminating device. C. L. La Jeunesse. 1,460,136; June 26.
Incubator, Electric. L. R. Oakes. 1,460,349; June 26.
Indicator: *See*—
Specific-gravity indicator.
Speed indicator.
Instantaneous heater. C. D. McLean. 1,460,025; June 26.
Ironing machines, Shirt board for. C. E. Waream and D. H. Benjamin. 1,460,184; June 26.
Jack. F. H. Deal. 1,460,229; June 26.
Jack mechanism. S. A. Snell. 1,460,116; June 26.
Jar closure. C. C. Emick. 1,460,017; June 26.
Joint: *See*—
Flexible joint.
Pipe joint.
Swing joint.
Universal joint.
Key, Machine. B. R. Benjamin. 1,460,222; June 26.
Kit, Lunch. J. G. Nikart. 1,460,108; June 26.
Ladle-tilting mechanism. A. C. Nelson. 1,459,985; June 26.
Lamp, Incandescent. L. Ryzowicz and J. J. Bolek. 1,460,143; June 26.
Lamp, Locking. H. Hubbell. 1,460,246; June 26.
Lamp standard. J. W. Gosling. Des. 62,570; June 26.
Last. W. A. Krentler. 1,460,358; June 26.
Lathe-carriage attachment. J. J. Witt. 1,460,121; June 26.
Lawn trimmer. T. W. Martin. 1,460,261; June 26.
Lens mounting. P. L. Bradley. 1,460,334; June 26.
Lid-operating mechanism. A. Roggi. 1,460,178; June 26.
Lifter. T. Frey. 1,460,320; June 26.
Light: *See*—
Flash light.
Light gauge. C. L. Drew. 1,460,055; June 26.
Lighting fixture. R. S. Aspinwall. Des. 62,561; June 26.
Lighting fixture. T. E. Dahl. Des. 62,565; June 26.
Lighting fixture. R. C. Pfleager. Des. 62,582–8; June 26.
Lighting-fixture part. P. I. Ansorge. Des. 62,560; June 26.
Lighting fixtures, Canopy for. G. E. McFadden. Des. 62,578; June 26.
Lighting fixtures, Shade for. N. Kopp. Des. 62,573–4; June 26.
Lighting fixtures, Shade for. H. E. Rainaud. Des. 62,590; June 26.
Lighting fixtures, Spindle for. R. L. Gerth. Des. 62,568–9; June 26.
Line balance, System for testing. A. L. Jones. 1,459,770; June 26.
Lint, Pneumatic apparatus for cleaning, covering, and recovering. G. L. Allen. 1,460,220; June 26.
Liquid-fuel burner. G. W. Hofmann. 1,460,130; June 26.
Liquids, Device for determining the specific gravity of. J. M. Joblin. 1,460,134; June 26.
Loader, Portable. N. P. Nelson. 1,460,172; June 26.
Loading device. E. H. Lichtenberg. 1,459,779; June 26.
Lock: *See*—
Automobile lock.
Car lock.
Door lock.
Manifold connection lock.
Nut lock.
Stovepipe lock.
Vehicle lock.
Lock and latch. N. B. Hurd. 1,460,133; June 26.
Locomotive ash pan. W. M. Sheehan. 1,460,113; June 26.
Locomotive grate shaker. G. B. Ashworth. 1,459,813; June 26.
Loom. E. Bloom. 1,460,050; June 26.
Looms, Stop mechanism for rotary box. J. E. Wagemans and G. Ledewyn. 1,460,003; June 26.
Lubricating apparatus. R. B. Williamson. 1,460,353; June 26.
Lubricating system. E. H. Belden. 1,459,815; June 26.
Lubricating system. C. E. Bonner. 1,459,819; June 26.

Magnet, Lifting. F. W. Jesson. 1,459,830; June 26.
Magnetizable objects, Method of and apparatus for testing. C. W. Burrows. 1,459,970; June 26.
Mail-box support. E. Davis. 1,460,054; June 26.
Mailable matter, Device for securing. J. B. Sr. Blitch. 1,459,716; June 26.
Mailing receptacle. J. E. Hawley. 1,460,322; June 26.
Mailing tube. J. Loufek. 1,459,783; June 26.
Manganese scrap, Electric furnace melting of. W. G. Nichols. 1,460,106; June 26.
Manifold connection lock. L. B. Martin. 1,460,205; June 26.
Match box. T. G. Lovegrove. 1,459,785; June 26.
Match box. L. S. Moore. 1,459,850; June 26.
Metal article, Workable. W. B. Ballantine. 1,459,049; June 26.
Metals, Plating. H. A. Myers. 1,460,137; June 26.
Meter construction. E. A. Kerstein. 1,460,327; June 26.
Mill: *See*—
Axle mill.
Coffee mill.
Mill appliance, Rolling-. T. Wilson. 1,459,811; June 26.
Milling-machine cutter. J. Mattson. 1,460,028–30; June 26.
Mineral-washing plant. A. France. 1,460,196; June 26.
Mining and quarrying machine. C. S. Oldroyd. 1,460,073; June 26.
Mining and quarrying machine. C. S. Oldroyd. 1,460,075–6; June 26.
Mining machine. C. S. Oldroyd. 1,460,077; June 26.
Mirror, brush, or similar article. W. S. Bechtold. Des. 62,562; June 26.
Mold: *See*—
Concrete mold.
Motions representing a function of two independent variables in calculating apparatus, Mechanism for producing. A. Barr and W. Stroud. 1,460,221; June 26.
Motor: *See*—
Current motor.
Motor-control system. R. E. Hellmund. 1,460,157; June 26.
Motor control system. B. W. Jones and E. C. Gooch. 1,460,062; June 26.
Motors, Device for air cooling dustproof fan. M. H. Spielman. 1,460,146; June 26.
Motors, Tiller for outboard. L. J. Johnson. 1,459,734; June 26.
Movement, Mechanical. J. Allingham. 1,459,963; June 26.
Movement, Mechanical. A. C. Day. 1,460,194; June 26.
Mower, Lawn. E. W. Simmons. 1,459,998; June 26.
Music-leaf turner. A. H. Mills. 1,460,265; June 26.
Muzzle, Brood-sow. C. F. Brecht. 1,459,904; June 26.
Nail and tack, Capped. L. Daniel. 1,459,877; June 26.
Nozzle for the delivery of water or other liquid under pressure. C. R. Fleming-Williams. 1,459,975; June 26.
Nut lock. T. Blankenship. 1,459,818; June 26.
Nuts, Method of and apparatus for decorticating. H. Warren. 1,460,004; June 26.
Oil burner. J. K. Beauchamp. 1,459,969; June 26.
Oil burner. C. E. McKee. 1,459,920; June 26.
Oil can. T. O. Bakken. 1,459,871; June 26.
Oil separator and vaporizer, Fuel-. M. A. Jones, R. Krollage, and E. C. Yeager. 1,460,063; June 26.
Oils, Treating. G. E. Hughes, sr. 1,459,732; June 26.
Osteopathic table. A. M. Freise. 1,459,953; June 26.
Oven charging and unloading apparatus. W. S. Hodges. 1,460,323; June 26.
Package handle. G. W. Carver. 1,460,354; June 26.
Packaged article. W. H. Smith. 1,459,754; June 26.
Packing and making it, Flexible. J. Ostrander. 1,459,744; June 26.
Paddle, Stirring. A. M. Williams. 1,460,007; June 26.
Paints and making the same, Drier or filler for. G. E. Hughes, sr. 1,459,733; June 26.
Pan: *See*—
Locomotive ash pan.
Paper bags, Device for folding. P. Gangler. 1,459,825; June 26.
Paper, Fly. A. A. Banks. 1,459,711; June 26.
Paper strip, Reenforced. C. H. Howard. 1,460,356; June 26.
Peat machine. F. T. Dow. 1,459,907; June 26.
Percussion drill and the like, B. A. Mitchell. 1,459,848; June 26.
Phonographs, Automatic stop for. A. S. Lindholm. 1,460,202; June 26.
Photograph and making the same. A. Ames, jr. 1,460,122; June 26.
Piano playing, Means of teaching. I. M. Smith. 1,459,802; June 26.
Picture cabinet, Motion-. A. G. Merriman. 1,460,071; June 26.
Pin or emblem. J. Miller. Des. 62,580; June 26.
Pipe coupling. J. W. Frazier and F. E. Hansen. 1,460,154; June 26.
Pipe cutting, rounding, and threading machine. E. H. Wilson. 1,460,088; June 26.
Pipe joint. A. T. Kuehner. 1,460,100; June 26.
Pipe-repair clamp. J. W. Blair. 1,460,224; June 26.
Piston. T. C. Smith. 1,460,041; June 26.
Piston packing. K. A. Simmon. 1,460,182; June 26.
Piston-rod swab. J. W. Price, jr. 1,460,174; June 26.
Planter, Three-row. R. L. Ford. 1,460,236; June 26.
Platens, Actuating means for machine. C. M. Conradson. 1,459,720; June 26.
Plow. C. R. Bouldin. 1,460,013; June 26.
Pneumatic spring. J. G. Hughes. 1,459,892; June 26.
Pole-base construction. G. X. Wendling. 1,460,186; June 26.
Polish-rod clamp. H. B. Lefler. 1,460,256; June 26.
Potato-sorting machine. H. A. Nelson. 1,459,854; June 26.
Powder-dispensing box. J. Loufek. 1,459,784; June 26.
Press: *See*—
Drawing press.
Filter press.
Salt press.
Tile press.
Tortilla press.
Presses, Semiautomatic table-moving attachment for. F. E. Stevenson. 1,459,757; June 26.
Pressure gauge. H. P. Kraft. 1,460,249; June 26.
Printing machine, Fabric-. C. H. Masland, 2d. 1,460,206; June 26.
Printing presses, Paper-feeding mechanism for. A. P. Hart. 1,460,336; June 26.
Propeller. L. de Monge. 1,460,230; June 26.
Propeller nave, Adjustable. E. Wesnick. 1,459,941; June 26.
Propionic fermentation, Acceleration of. J. M. Sherman and R. H. Shaw. 1,459,959; June 26.
Propulsion device. L. G. Bostedo. 1,460,051; June 26.
Pulverizer, Rock. C. S. Willis. 1,460,008; June 26.
Pump. H. E. La Bour. 1,460,160; June 26.
Pump. J. Mohn. 1,460,208; June 26.
Pump. A. J. Welden. 1,460,295; June 26.
Pumping apparatus, Wet vacuum. I. C. Jennings. Re15,637; June 26.
Punching machine, Plate-. G. Lasker. 1,459,776; June 26.
Puzzle and educational device, Combined. H. C. Telpel. 1,459,937; June 26.
Rack: *See*—
Tool rack.
Umbrella rack.
Radiator. Detachable transformer. C. G. Jones. 1,460,135; June 26.
Radiator holder. J. W. Kager. 1,460,344; June 26.
Railway and the like sleeper, Reenforced concrete. D. H. Stent. 1,460,115; June 26.
Railway-motor mounting. B. S. Moore. 1,460,170; June 26.
Railway signaling apparatus. A. E. Tattersall. 1,459,999; June 26.
Railway-track member, Cast-steel. W. G. Nichols. 1,460,107; June 26.
Razor, Safety. C. S. Parker. 1,460,139; June 26.
Receptacle, Baggage. F. B. Emery. 1,460,016; June 26.
Recording signal. E. Thomson. 1,460,083; June 26.
Rectifier, Electrolytic. R. W. McClintock and D. McKinnon. 1,460,104; June 26.
Reel: *See*—
Fishing reel.
Refrigerating machines, Preventing the formation of frost crystals in the circulating lines of. H. J. Smith. 1,460,352; June 26.
Refuse-collecting wagon. J. Pullar. 1,460,078; June 26.
Register-operating mechanism. J. H. Egan. 1,459,879; June 26.
Registers, Operating mechanism for. F. C. Harris. 1,459,730; June 26.
Regulating device. L. Arnold. 1,459,967; June 26.
Regulator: *See*—
Fluid-pressure regulator.
Regulator system. E. Lehr. 1,460,161; June 26.
Relief device, Safety. R. V. Bingay. 1,459,817; June 26.
Reliner. I. C. Vance. 1,460,292; June 26.
Resilient coupling. R. Siegfried. 1,460,181; June 26.
Resilient wheel. J. W. Rouprich. 1,459,992; June 26.
Rifle sight, Telescope. W. S. Belding. 1,459,944; June 26.
Rim constricting and expanding device. H. Fifer. 1,460,319; June 26.
Rim, Demountable. J. B. Roesch. 1,460,278; June 26.
Rim, Demountable. W. Ryan. 1,459,993; June 26.
Rim-straightening device. A. J. Droishagen. 1,459,908; June 26.
Riveter, Pneumatic. E. Rehfeld. 1,460,272; June 26.
Rod coupling. H. Allen. 1,459,869; June 26.
Roller: *See*—
Shade roller.
Roller tool, Expanding. R. F. Salisbury. 1,460,079; June 26.
Rolling stock, Brake for tramway and railway. A. W. Maley. 1,459,788; June 26.
Roofing, Sheet-metal. H. L. Olden. 1,459,855; June 26.
Rouge and powder puff, Combined. W. D. Roy. 1,459,931; June 26.
Rule, Slide. O. D. Parsons. 1,459,857; June 26.
Running board mat and light, Combined. W. Dobschutz. 1,460,316; June 26.
Rust from metal articles, Removing. J. S. Gravely. 1,459,910; June 26.
Sacks, Knotting mechanism for tying. F. O. Lindgren. 1,459,833; June 26.
Salicylates, Making. M. E. Putnam and J. McCreadie. 1,459,900; June 26.
Salt press. J. P. Madden. 1,460,026; June 26.

Sash weight, window-. C. L. Schneider. Re15,634; June 26.
Saw gage. A. H. Blackburn. 1,459,873; June 26.
Saw machine, Band-. E. Stauder. 1,459,933; June 26.
Scale, Automatic. M. J. Weber. 1,460,087; June 26.
Scale, Transposition. E. D. Tillyer. 1,460,148; June 26.
Scraper. B. E. Rose and G. Woolwine. 1,460,340; June 26.
Scraper, Pneumatic earth. L. R. Rhodes. 1,459,748; June 26.
Screen: *See*—
Shaking screen.
Vibrating screen.
Screening machine and screen cloth therefor. B. A. Mitchell. 1,459,842; June 26.
Screening machine and screen cloth therefor. B. A. Mitchell. 1,459,845; June 26.
Screening machines, etc., Vibrator for. B. A. Mitchell. 1,459,841; June 26.
Screw driver. W. J. Parsons. 1,460,036; June 26.
Seat: *See*—
Folding seat.
Separators, Device for adjusting bowl and bowl spindles on centrifugal. G. F. Fowler. 1,459,909; June 26.
Separators, Isolator for battery. C. M. Angell. 1,460,010; June 26.
Sewing machine takeups, Thread controller for. J. C. Ringe and H. C. Niesen. 1,460,177; June 26.
Sewing machines, Motor drive for. H. Maimin. 1,460,070; June 26.
Shade. E. S. Bliss. 1,459,715; June 26.
Shade roller, Window-. C. W. Kirsch. 1,459,772; June 26.
Shaft coupling. E. N. Twogood. 1,460,001; June 26.
Shaking screen, Adjustable. E. S. Stadelman. 1,460,284; June 26.
Sheave wheel. T. S. Miller. 1,460,169; June 26.
Sheet piling, Metallic. J. ver Mehr and J. S. Owens. 1,460,263; June 26.
Sheet-stacking mechanism. B. M. Fine. 1,460,059; June 26.
Shelter, Portable knockdown. W. C. Houser. 1,460,098; June 26.
Shingle. N. P. Harshberger. 1,459,827; June 26.
Ship, Wind-propelled. F. O. Kohn. 1,459,970; June 26.
Shipping container. L. E. Rooks. 1,459,991; June 26.
Shirt retainer. D. Schreiber. 1,459,750; June 26.
Shock absorber, Battery. E. J. Colgan. 1,459,973; June 26.
Shock-absorbing spring. E. Matthews. 1,459,983; June 26.
Shoes, Treating corresponding parts of pairs of. N. V. Dyer. 1,459,721; June 26.
Sign, Changeable. R. C. Burton. 1,460,311; June 26.
Sign, Double-faced changeable-letter. J. G. Williams. 1,460,302; June 26.
Sign letters, Interchangeable. W. M. Elliott and S. E. Cook. 1,459,765; June 26.
Sign paint protector, Highway-. J. P. Remington. 1,460,351; June 26.
Sign support. C. D. Vest. 1,459,866; June 26.
Signal: *See*—
Recording signal.
Vehicle signal.
Signal means. N. J. Hood. 1,460,324; June 26.
Skates, Roller for. C. D. Snyder. 1,460,183; June 26.
Slitters, Blank feed for. C. M. Symonds. 1,459,758; June 26.
Soap from carbonate-of-lime sludge, Recovering the residual. P. Krebitz. 1,459,773; June 26.
Sorting machine. C. F. Richardson. 1,460,176; June 26.
Sound-reproducing apparatus, Diaphragm for. J. A. Steurer. 1,459,803; June 26.
Spark plugs, Spark regulator for restoring normal ignition to fouled. J. and P. Courtier. 1,460,227; June 26.
Spear, Casing. E. C. Immel. 1,460,099; June 26.
Specific-gravity indicator. R. P. Searle. 1,459,752; June 26.
Spectacles display holder. A. Meng. Des. 62,579; June 26.
Speed indicator. W. H. F. Smith. 1,460,218; June 26.
Spindle, Spinning and twisting. J. J. Keyser and J. J. Müller. 1,460,328; June 26.
Spindles, Apparatus for pressing cop and like tubes upon. E. Buck. 1,460,310; June 26.
Spinning, doubling, twisting, and like machines. S. Moorhouse. 1,460,033; June 26.
Spinning rings, Traveler stop for. L. G. Sabbag. 1,460,144; June 26.
Spiral tool. G. O. Leopold. 1,460,201; June 26.
Spotlight bracket. O. M. Otte. 1,459,856; June 26.
Sprayer, Insecticide. V. Koehmstedt. 1,459,915; June 26.
Sprayer, Powder. E. Johnson. 1,459,955; June 26.
Spreader, Wax. J. King. 1,460,329; June 26.
Spring: *See*—
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Shock-absorbing spring.
Vehicle spring.
Spring cap and truck bolster column guide, Combined. R. V. Sage and G. E. Thackray. 1,459,799; June 26.
Spring wheel. P. Faivre. 1,460,318; June 26.
Square, Combination. D. C. Lopez. 1,460,103; June 26.
Stanchion-securing means, Lower-. R. F. Rasmussen. 1,459,928; June 26.
Stapling machines and the like, Cushion cap for. L. Obstfeld. 1,459,924; June 26.
Starting, stopping, and driving machinery, Means for. E. J. Weiffens. 1,459,759; June 26.
Steam boiler. I. Todd. 1,459,807; June 26.
Steel, Apparatus for the production of. C. de Thal. 1,460,231; June 26.
Steel, Production of basic. R. Bauret. 1,459,712; June 26.
Steering wheel, Folding. F. B. Merritt. 1,459,957; June 26.
Stepladder. C. W. Krathwohl. 1,460,252; June 26.
Stepladder. S. A. McGaw. 1,459,918; June 26.
Stopper: *See*—
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Storage battery. J. D. Mintz. 1,460,072; June 26.
Stove, Electric. W. R. Williamson. 1,459,868; June 26.
Stove, Oil. W. C. Lindemann. 1,460,258; June 26.
Stovepipe. J. T. Hildebrand. 1,460,021; June 26.
Stovepipe lock. B. Leach. 1,460,255; June 26.
Strainer. F. T. Bentley. 1,460,308; June 26.
Strainer, Fluid. A. Olin. 1,459,925; June 26.
Substation, Automatic. F. C. Hanker. 1,460,156; June 26.
Suction cleaner. H. E. Hoover. 1,460,245; June 26.
Suit, Union. W. L. Pendergrass. 1,459,986; June 26.
Suture box. E. M. Bailey. 1,459,943; June 26.
Swab stopper. G. L. Harvey. 1,460,243; June 26.
Swing joint. E. J. Malone. 1,460,105; June 26.
Switch: *See*—
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Switching system, Mechanical. W. T. Powell. 1,459,859; June 26.
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Osteopathic table.
Table. F. A. Coady. Des. 62,564; June 26.
Talking machine cabinet. N. Tota. 1,460,280; June 26.
Tape into articles, Machine for threading. G. M. Eames and J. C. Ringe. 1,460,195; June 26.
Tapping machine. E. J. McClellan. 1,459,981; June 26.
Telegraphs, Transmitter for printing. E. E. Kleinschmidt. 1,460,357; June 26.
Telephone system. S. A. Beyland. Re15,636; June 26.
Telephone system, Automatic. W. T. Powell. 1,459,860; June 26.
Telephone system, Measured-service. F. M. Slough. 1,459,863; June 26.
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Telescopes and other optical instruments, Erecting prism for. A. and H. D. Taylor. 1,459,864; June 26.
Tennis nets and the like, Means for supporting and tensioning. D. V. Eskell. 1,459,723; June 26.
Textile fabric. H. B. Feldman. Des. 62,567; June 26.
Thread splicing machine. A. A. Brigham. 1,459,875; June 26.
Ticket, Railway. C. L. S. Tingley. 1,459,806; June 26.
Tie holder. P. Orsi. 1,459,926; June 26.
Tile press. F. E. Stevenson. 1,460,287; June 26.
Tiling, Method and machine for forming sheet. W. J. Kent. 1,459,771; June 26.
Timepiece, Combined sidereal and mean solar. S. W. Balch. 1,459,710; June 26.
Tire. J. G. Johnson. 1,460,247; June 26.
Tire. J. Tenney, jr. Des. 62,593; June 26.
Tire carrier and cover, Combined. T. A. Rianda. 1,460,274; June 26.
Tire tool. J. A. Voirol. 1,459,867; June 26.
Tire tread. W. D. Carnal. Des. 62,563; June 26.
Tire valves or the like, Tool for. M. C. Schweinert. 1,459,751; June 26.
Tire, Wheel. R. B. Whitman. 1,460,187; June 26.
Tires, Air and dust cap for automatic. A. K. Hinchman. 1,460,355; June 26.
Tires, Blow-off valve for pneumatic. A. H. Urtubees. 1,459,939; June 26.
Tires, Patch for. E. C. Handschug. 1,459,887; June 26.
Tone arm. F. Oberst. 1,459,743; June 26.
Tool rack. A. J. Riehle. 1,459,930; June 26.
Tools, Curve-forming rest for machine. E. Blau. 1,459,874; June 26.
Toothbrush-holding device. C. L. Jones. 1,459,831; June 26.
Torpedo head. J. A. Rayder. 1,460,175; June 26.
Tortilla press. A. C. and C. L. Gore. 1,459,976; June 26.
Towel holder. G. A. Sommers. 1,460,081; June 26.
Towel-service machine. O. Schimmer. 1,460,215; June 26.
Toy, Educational and amusement. C. Schwarz. 1,459,996; June 26.
Trace carrier. W. F. Ramige. 1,460,271; June 26.
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Tractors, Coupling apparatus for. H. Kaiser. 1,460,347; June 26.
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Train-pipe connector, Automatic. J. V. Robinson. Re15,639; June 26.
Transformer installation. W. A. Pressey. 1,459,988; June 26.
Transom lift. G. Leake. 1,460,023; June 26.
Trap: *See*—
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Trenching machine. D. W. Stookey. 1,460,117; June 26.

Trimmer: *See*—
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Trolley-wire cut-out switch. T. A. Thomas. 1,460,288; June 26.
Trough for chicks, Feed. L. R. Oakes; 1,460,359; June 26.
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Truck, Motor-driven. C. S. Oldroyd. 1,460,074; June 26.
Tube: *See*—
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Tube holder and content ejector, Collapsible. E. A. Maraffi. 1,460,204; June 26.
Tumbler washer. P. Cunneen. 1,460,094; June 26.
Tunnels and culverts, Form for. C. D. McArthur. 1,460,165; June 26.
Turbine, Steam. C. E. Kounce. 1,460,330; June 26.
Turning, planing, and like operations, Tool and tool holder for. W. T. Tasker. 1,459,805; June 26.
Typewriting and adding machine, Combined. G. J. Barrett. 1,459,814; June 26.
Typographical machine. D. S. Kennedy. 1,459,978; June 26.
Umbrella rack. F. R. McGee. 1,459,787; June 26.
Universal joint. P. Olive. 1,460,212; June 26.
Upholstering padding. A. H. Lichter. 1,459,780; June 26.
Vacuum cleaner. L. Bailly. 1,459,968; June 26.
Vacuum cleaner. V. Camarata, J. Codrick, and R. P. Danley. 1,459,946; June 26.
Valve. E. A. Stiles. 1,459,934; June 26.
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Valve cap. H. P. Kraft. 1,460,250; June 26.
Valve, Flush. W. Sherwood. 1,460,080; June 26.
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Valve, Pressure-relief. C. W. Larner. 1,459,775; June 26.
Vanity box. C. C. Prindle. 1,459,798; June 26.
Vanity case. H. R. Barr. 1,460,192; June 26.
Vault, Burial. B. M., G. C., and D. P. Bird. 1,460,223; June 26.
Vehicle body. F. J. Mueck. 1,459,740; June 26.
Vehicle lock. A. Cappellari. 1,460,015; June 26.
Vehicle, Railway and tramway. H. N. Gresley. 1,459,977; June 26.
Vehicle signal. E. F. McGillicuddy. 1,459,919; June 26.
Vehicle spring. C. Westergard. 1,460,298; June 26.
Vehicle wheel. S. Kramer. 1,459,736; June 26.
Vehicles, Gasoline filter for motor-driven. G. A. Hallauer. 1,460,241; June 26.
Vehicles, Reversible differential gearing for. G. H. Irwin. 1,459,894; June 26.
Vehicles, Support for. J. E. Hancock. 1,459,954; June 26.
Vending machine. M. B. Baird and G. A. Walls. 1,460,123; June 26.
Veneer, Agglutinant for. P. Schrot. 1,460,341; June 26.
Vessel locating and recovering means. J. T. Bishop. 1,459,714; June 26.
Vibrating screen. B. A. Mitchell. 1,459,837–40; June 26.
Vibrating screen. B. A. Mitchell. 1,459,843–4; June 26.
Vibrating screen. B. A. Mitchell. 1,459,846; June 26.
Vibration detector. C. R. Moore. 1,460,032; June 26.
Vibrator, Differential. B. A. Mitchell. 1,459,847; June 26.
Vise and vise jaw, Universal. W. G. Blomstran. 1,459,717; June 26.
Visor, Windshield. J. W. Davis. 1,460,313; June 26.
Voltage-regulator mechanism. F. H. Patten. 1,460,173; June 26.
Wagon. B. B. Trombley. 1,460,290; June 26.
Wall block or member. O. H. L. Wernicke. 1,460,005; June 26.
Walls, Apparatus for building. A. George. 1,460,197; June 26.
Washer: *See*—
Automobile washer. Tumbler washer.
Washing machine. W. F. Fraser. 1,459,881; June 26.
Washing machine. Z. C. Haberman. 1,459,728; June 26.
Washing machine. T. Litwiller and J. Leader. 1,460,203; June 26.
Washing machine. R. Madsen. 1,459,835; June 26.
Washing machines, Driving mechanism for. A. W. Altorfer. 1,460,191; June 26.
Watch-movement frame. W. W. Dudley. Des. 62,566; June 26.
Water-heating apparatus. W. S. Smith. 1,460,042; June 26.
Water purifier. E. J. Brock. 1,459,820; June 26.
Waterproofing composition and making the same. G. W. Kramer. 1,460,251; June 26.
Weather strip, Automatic. F. Caron. 1,460,312; June 26.
Weaving machine, Reed-. M. B. Lloyd. 1,459,781; June 26.
Web-severing device. C. F. Pfanze. 1,459,746; June 26.
Welding. C. A. Hadley. 1,459,885; June 26.
Wells and cementing, Process of and apparatus for setting casing and screen in. W. B. Reed. 1,459,989; June 26.
Wheel: *See*—
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Sheave wheel. Vehicle wheel.
Spring wheel. Wind wheel.
Wheel. T. C. Lackland. 1,460,253; June 26.
Wheel. G. Walther. 1,460,293; June 26.
Wheel and shaft and interlocking same. L. A. Seiss. 1,460,145; June 26.
Wheels, Manufacture of. J. G. Swain. 1,460,147; June 26.
Wheelbarrow, Metal. D. C. Mulvihill. 1,459,898; June 26.
Wind wheel. H. D. Shelton. 1,460,114; June 26.
Window-lifting device. H. A. Myers. 1,460,138; June 26.
Windshield protector. A. C. McKinnon. 1,459,834; June 26.
Wire frame. J. J. Williams. Re15,635; June 26.
Woodworking machine. C. F. Anderson and L. W. Knapp. 1,459,965; June 26.
Wrapping machine. C. E. Campbell. 1,459,719; June 26.
Wrench. J. B. Menzl. 1,459,739; June 26.
Wrench. L. E. Wegner. 1,460,294; June 26.
Yarn-inspecting machine. H. W. Unger. 1,459,865; June 26.

CLASSIFICATION OF PATENTS

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NOTE.—First number=class, second number=subclass, third number=patent number.

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